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2015 年港灣環境資訊網觀測資料年報
(12 海域觀測風力資料)

交通部運輸研究所

中華民國 106 年 9 月

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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，2015年觀測風力資料之觀測記錄表及逐時資料歷線圖。

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ABSTRACT:

This Annual report 2015 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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2015 年港灣環境資訊網觀測資料年報
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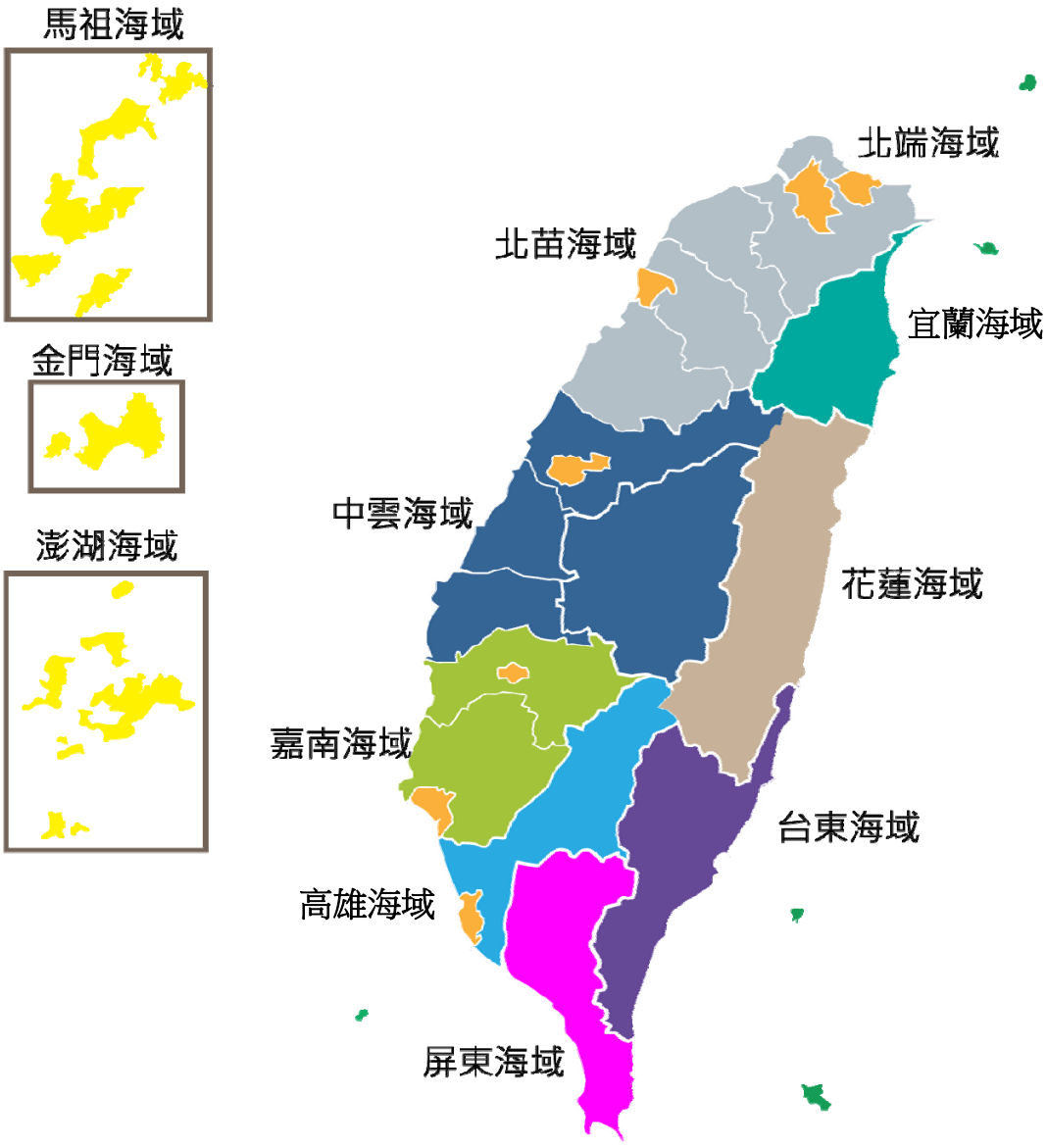
誌　　謝

2015 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)、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)，新竹海上浮標(測站 Y)、龍洞海上浮標(測站 Y)、花蓮海上浮標(測站 Y)、小琉球海上浮標(測站 Y) 、馬祖海上浮標(測站 Y) 、富貴角海上浮標(測站 R) 、七美海上浮標(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)、大鵬灣氣象站(測站 I 及測站 D)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) ，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。

臺灣 12 海域區分示意圖



第一章　2015 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 1。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 1。

本風力年報以取經檢核或修補後之 **X 站**資料作為**主要觀測站**，2015 年主要觀測站修補前(後)每月觀測之風資料記錄期間統計表，如表 1.1a，2015 年風力**次要觀測站**資料(未補餘)記錄統計表，如表 1.1b，**主要觀測站修補前後**每月風力歷線比較圖，如圖 1.1，**主要觀測站**與**次要觀測站**(或**其他觀測站**)每月風力歷線比較圖，如圖 1.2 以後。

表 1 北苗海域觀測風力資料蒐集概況表(統計時間至 2015 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	2005/01-2015/11(觀測中)	港研中心	新觀測樁
W	25°09'24"N	121°22'19"E	2009/08-2015/11(觀測中)	港研中心	臺北港區
E	25°09'50"N	121°26'54"E	2004/01-2015/11(觀測中)	中央氣象局	淡水
Y	24°45'39N	120°50'38"E	1997/06-2015/11(觀測中)	中央氣象局	新竹浮標站
P	24°51'01"N	120°54'44"E	2015/01-2015/11(觀測中)	中央氣象局	新竹
Q	24°39'05"N	120°46'18"E	2015/01-2015/11(觀測中)	中央氣象局	外埔
H			2014/08-2015/11(觀測中)	中央氣象局	新屋
I	24°49'48"N	121°00'22"E	2013/11-2015/11(觀測中)	中央氣象局	新竹

北苗海域

圖 1 北苗海域風力觀測站位置示意圖

表1.1a 2015年每月北苗海域修補前各測站觀測風力資料紀錄統計表

年/月 港區	北苗海域	北苗海域	北苗海域	北苗海域	北苗海域	北苗海域	北苗海域	北苗海域
測站	X	W	Y	E	P	Q	H	I
2014/12月	729 (98.0%)	*	739 (99.3%)	744 (100%)	*	*	744 (100%)	744 (100%)
2015/ 1月	737 (99.1%)	395 (53.1%)	737 (99.1%)	743 (99.9%)	556 (74.7%)	534 (71.8%)	743 (99.9%)	743 (99.9%)
2015/ 2月	622 (92.6%)	672 (100%)	672 (100%)	672 (100%)	*	*	672 (100%)	672 (100%)
2015/ 3月	*	744 (100%)	742 (99.7%)	744 (100%)	130 (17.5%)	136 (18.3%)	744 (100%)	744 (100%)
2015/ 4月	*	719 (99.9%)	708 (98.3%)	720 (100%)	384 (53.3%)	383 (53.2%)	720 (100%)	720 (100%)
2015/ 5月	*	741 (99.6%)	742 (99.7%)	741 (99.6%)	256 (34.4%)	269 (36.2%)	744 (100%)	744 (100%)
2015/ 6月	*	720 (100%)	716 (99.4%)	720 (100%)	481 (66.8%)	506 (70.3%)	720 (100%)	720 (100%)
2015/ 7月	*	742 (99.7%)	740 (99.5%)	744 (100%)	324 (43.5%)	405 (54.4%)	743 (99.9%)	743 (99.9%)
2015/ 8月	*	744 (100%)	730 (98.1%)	642 (86.3%)	565 (75.9%)	576 (77.4%)	744 (100%)	744 (100%)
2015/ 9月	*	705 (97.9%)	720 (100%)	720 (100%)	592 (82.2%)	489 (67.9%)	720 (100%)	720 (100%)
2015/10月	*	742 (99.7%)	743 (99.9%)	744 (100%)	383 (51.5%)	381 (51.2%)	743 (99.9%)	743 (99.9%)
2015/11月	*	718 (99.7%)	719 (99.9%)	720 (100%)	633 (87.9%)	656 (91.1%)	720 (100%)	720 (100%)
2015/冬季	2088 (96.7%)	1067 (49.4%)	2148 (99.4%)	2159 (100.0%)	556 (25.7%)	534 (24.7%)	*	*
2015/春季	*	2204 (99.8%)	2192 (99.3%)	2205 (99.9%)	770 (34.9%)	788 (35.7%)	*	*
2015/夏季	*	2206 (99.9%)	2186 (99.0%)	2106 (95.4%)	1370 (62.0%)	1487 (67.3%)	*	*
2015/秋季	*	2165 (99.1%)	2182 (99.9%)	2184 (100%)	1608 (73.6%)	1526 (69.9%)	*	*
2015/整年	2088 (23.8%)	7642 (87.2%)	8708 (99.4%)	8654 (98.8%)	4304 (49.1%)	4335 (49.5%)	*	*
起始年月	2014/12	2015/01	2014/12	2014/12	2015/01	2015/01	*	*
結束年月	2015/02	2015/11	2015/11	2015/11	2015/11	2015/11	*	*

表1.1b 2015年每月北苗海域修補後各測站風力資料統計表

年/月 港區	北苗海域	北苗海域	北苗海域	北苗海域	北苗海域	北苗海域	北苗海域	北苗海域
測站	X	W	Y	E	P	Q	H	I
2014/12月	744 (100%)	744 (100%)	744 (100%)	744 (100%)	*	*	*	*
2015/ 1月	744 (100%)	744 (100%)	744 (100%)	744 (100%)	*	*	*	*
2015/ 2月	672 (100%)	672 (100%)	672 (100%)	672 (100%)	*	*	*	*
2015/ 3月	744 (100%)	744 (100%)	744 (100%)	744 (100%)	*	*	*	*
2015/ 4月	720 (100%)	720 (100%)	720 (100%)	720 (100%)	*	*	*	*
2015/ 5月	744 (100%)	744 (100%)	744 (100%)	744 (100%)	*	*	*	*
2015/ 6月	720 (100%)	720 (100%)	720 (100%)	720 (100%)	*	*	*	*
2015/ 7月	744 (100%)	744 (100%)	744 (100%)	744 (100%)	*	*	*	*
2015/ 8月	744 (100%)	744 (100%)	744 (100%)	744 (100%)	*	*	*	*
2015/ 9月	720 (100%)	720 (100%)	720 (100%)	720 (100%)	*	*	*	*
2015/10月	744 (100%)	744 (100%)	744 (100%)	744 (100%)	*	*	*	*
2015/11月	720 (100%)	720 (100%)	720 (100%)	720 (100%)	*	*	*	*
2015/冬季	2160 (100%)	2160 (100%)	2160 (100%)	2160 (100%)	*	*	*	*
2015/春季	2208 (100%)	2208 (100%)	2208 (100%)	2208 (100%)	*	*	*	*
2015/夏季	2208 (100%)	2208 (100%)	2208 (100%)	2208 (100%)	*	*	*	*
2015/秋季	2184 (100%)	2184 (100%)	2184 (100%)	2184 (100%)	*	*	*	*
2015/整年	8760 (100%)	8760 (100%)	8760 (100%)	8760 (100%)	*	*	*	*
起始年月	2014/12	2014/12	2014/12	2014/12	*	*	*	*
結束年月	2015/11	2015/11	2015/11	2015/11	*	*	*	*

Wind Speed in Pei-Miao Seas of TPX0 at 2015

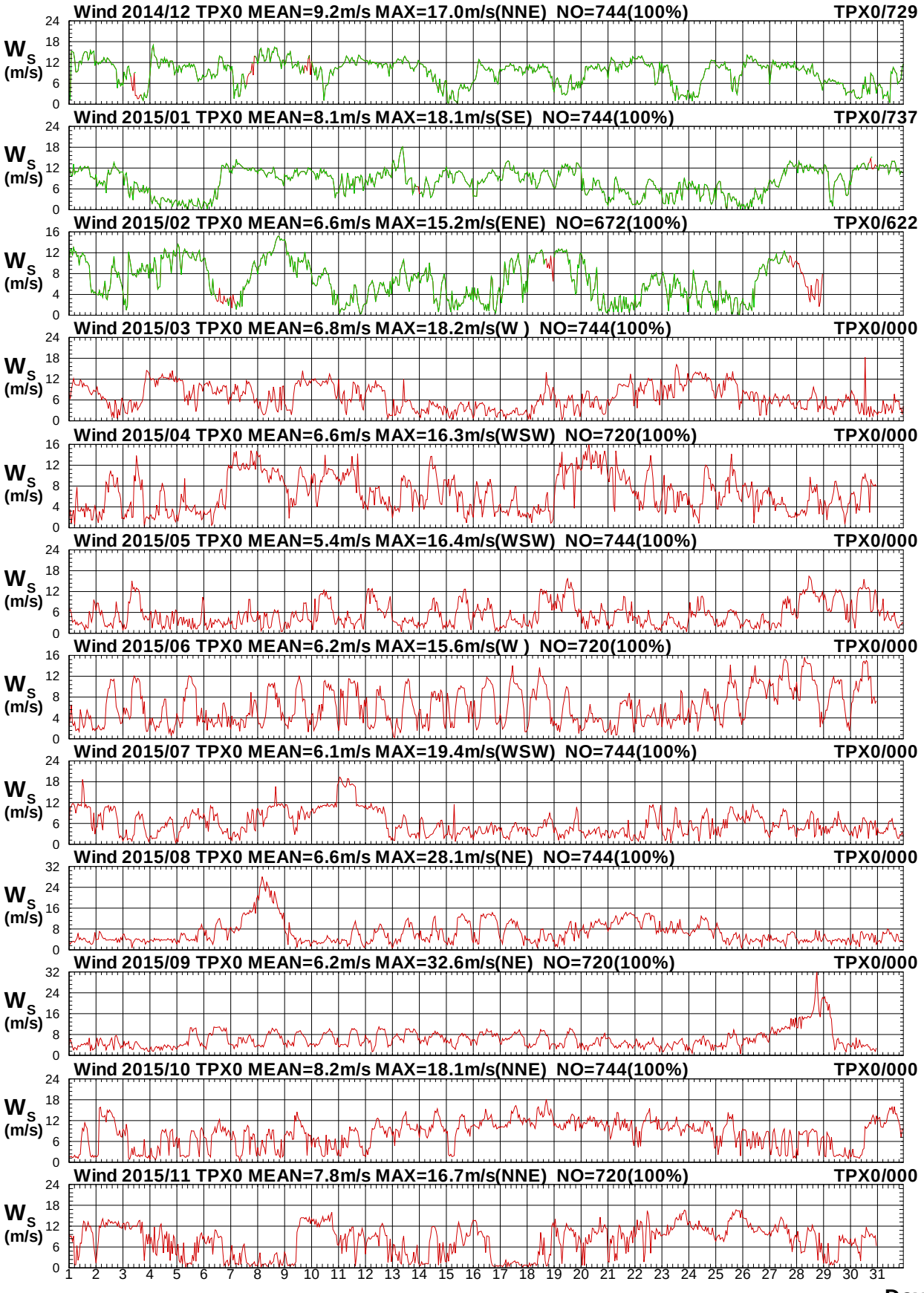


圖1.1a　2015年每月北苗海域 X 站修補前後之風速比較圖

W14CTPX0.1HA W14CTPX0.1H0 W151TPX0.1HA W151TPX0.1H0 W152TPX0.1HA W152TPX0.1H0
W153TPX0.1HA W153TPX0.1H0 W154TPX0.1HA W154TPX0.1H0 W155TPX0.1HA W155TPX0.1H0

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Wind Direction in Pei-Miao Seas of TPX0 at 2015

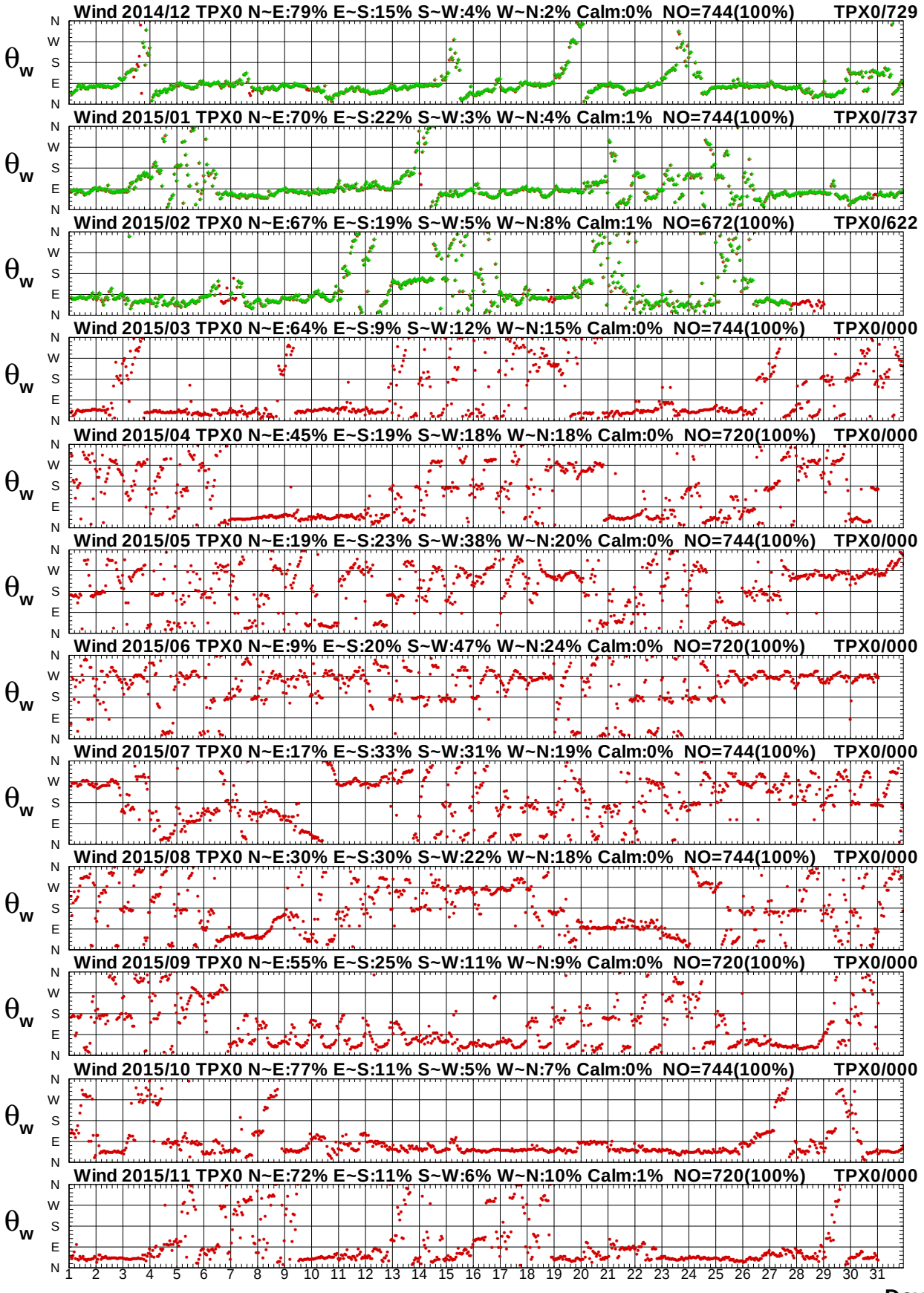

圖1.1b　2015年每月北苗海域 X 站修補前後之風向比較圖

Wind Speed in Pei-Miao Seas of TPX0 at 2015

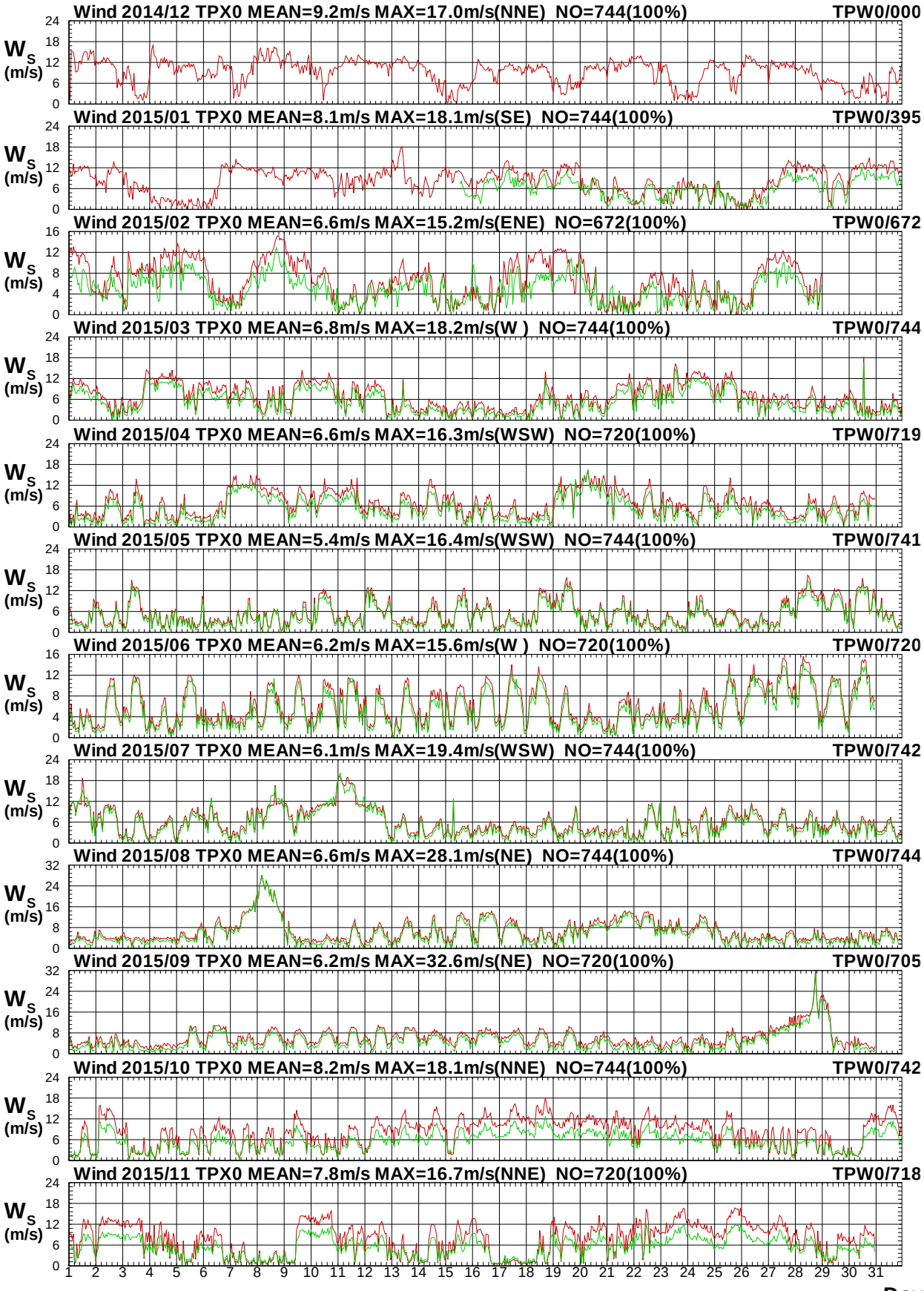

圖 1.2a　2015年每月北苗海域 X 站與 W 站風速比較圖

W14CTPX0.1HA W14CTPW0.1H0 W151TPX0.1HA W151TPW0.1H0 W152TPX0.1HA W152TPW0.1H0
W153TPX0.1HA W153TPW0.1H0 W154TPX0.1HA W154TPW0.1H0 W155TPX0.1HA W155TPW0.1H0

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Wind Direction in Pei-Miao Seas of TPX0 at 2015

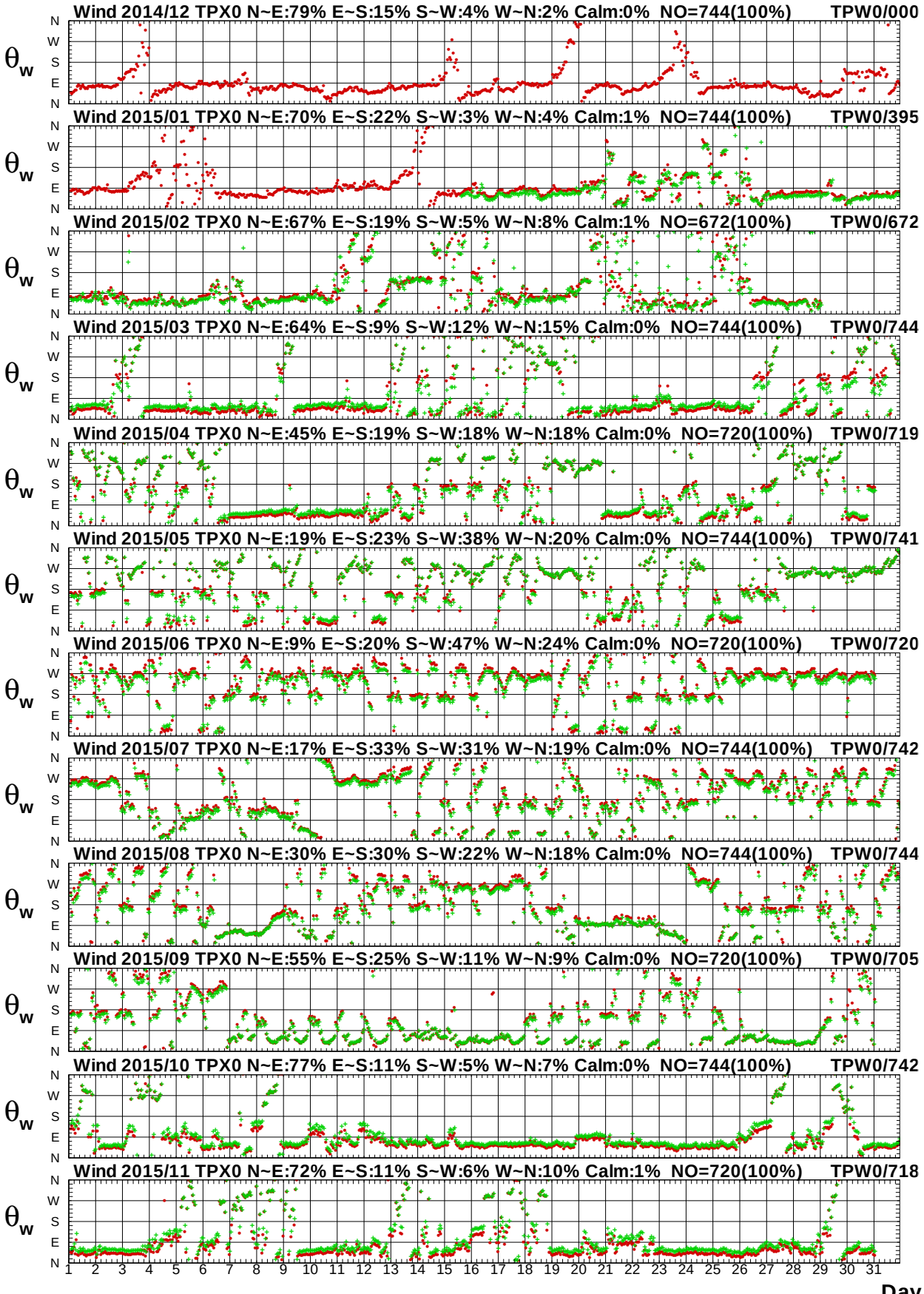

圖 1.2b　2015年每月北苗海域 X 站與 W 站風向比較圖

Wind Speed in Pei-Miao Seas of TPX0 at 2015

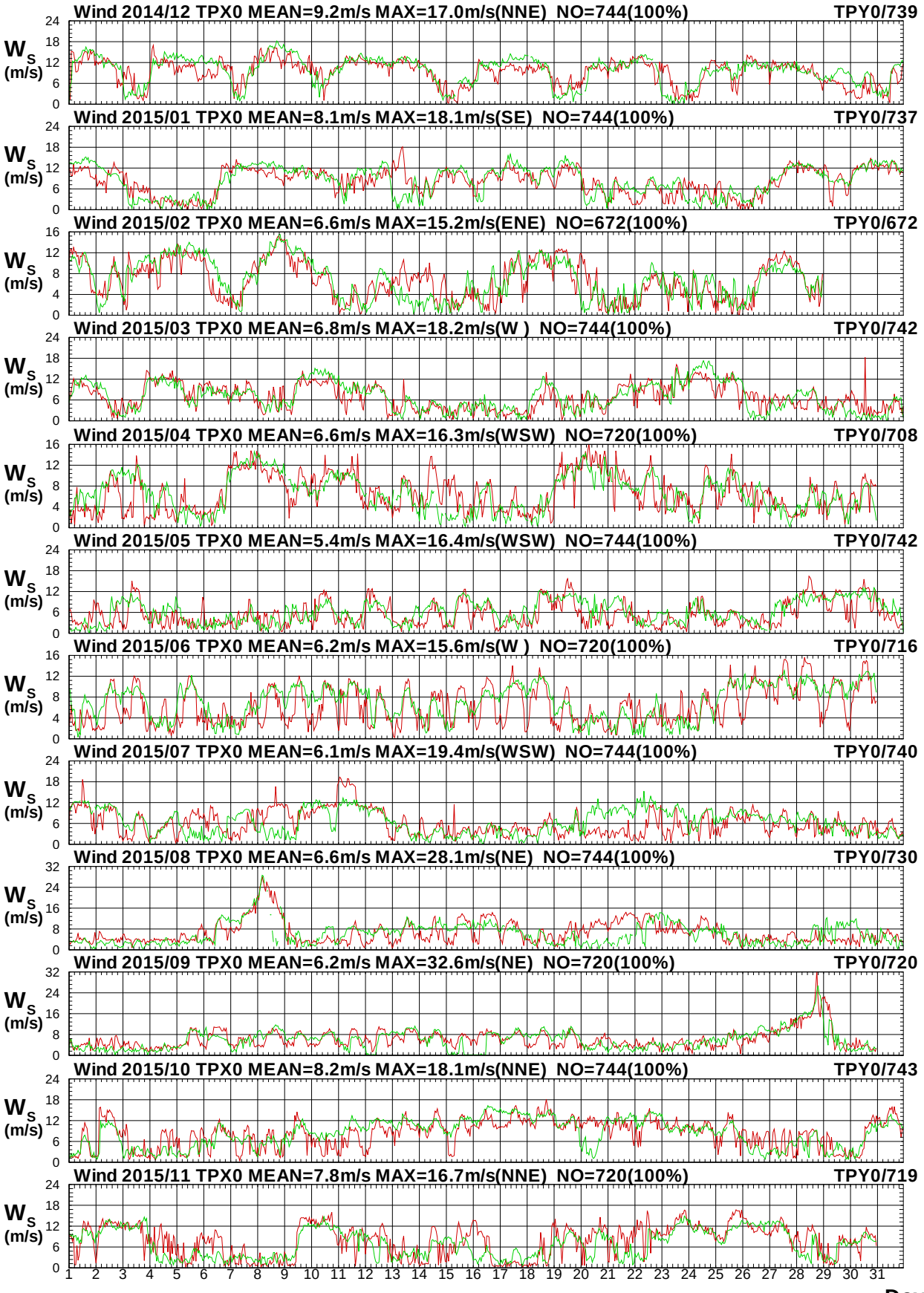

圖 1.3a　2015年每月北苗海域 X 站與 Y 站風速比較圖

W14CTPX0.1HA W14CTPY0.1H0 W151TPX0.1HA W151TPY0.1H0 W152TPX0.1HA W152TPY0.1H0
W153TPX0.1HA W153TPY0.1H0 W154TPX0.1HA W154TPY0.1H0 W155TPX0.1HA W155TPY0.1H0

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Wind Direction in Pei-Miao Seas of TPX0 at 2015

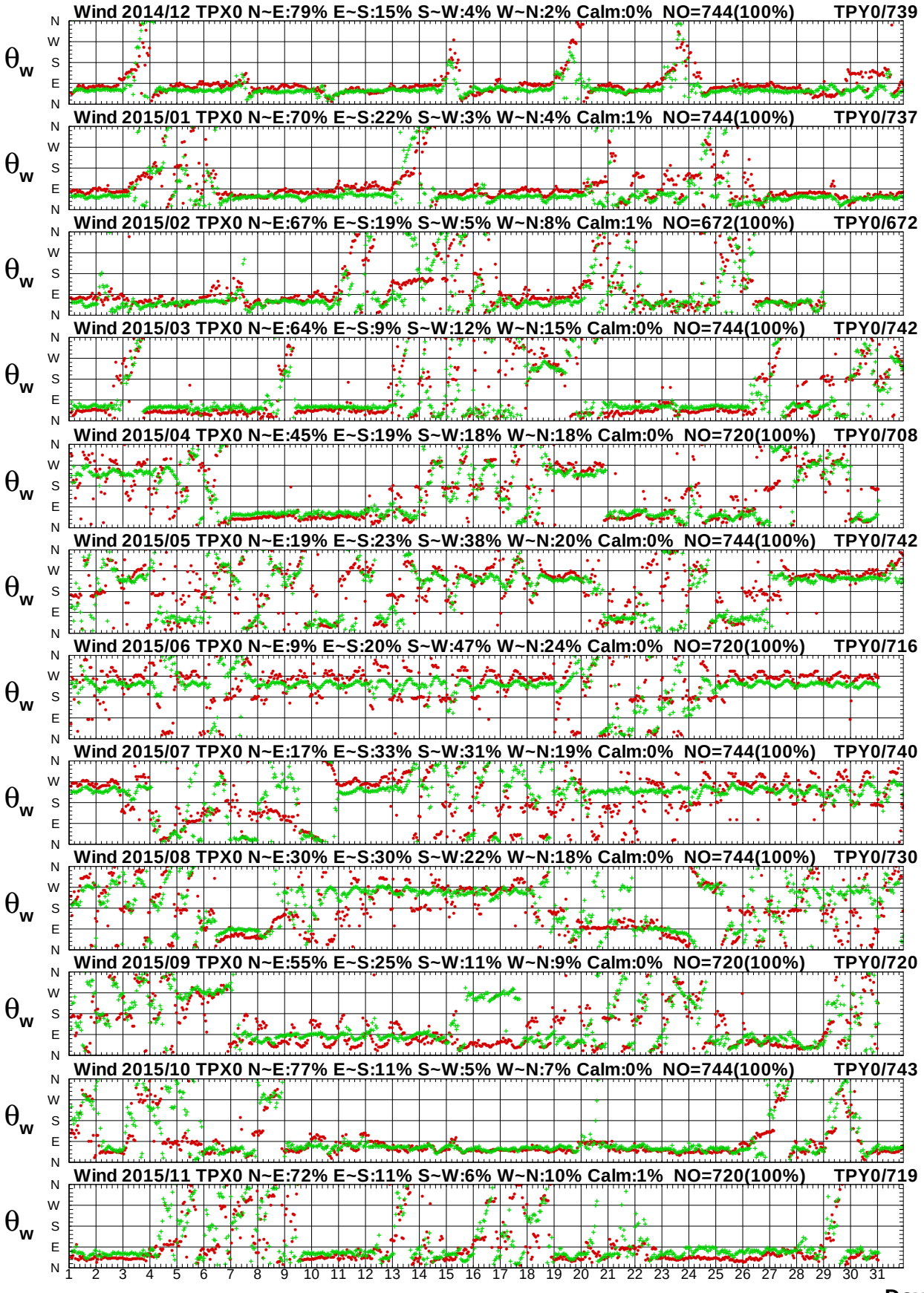

圖 1.3b　2015年每月北苗海域 X 站與 Y 站風向比較圖

Wind Speed in Pei-Miao Seas of TPX0 at 2015

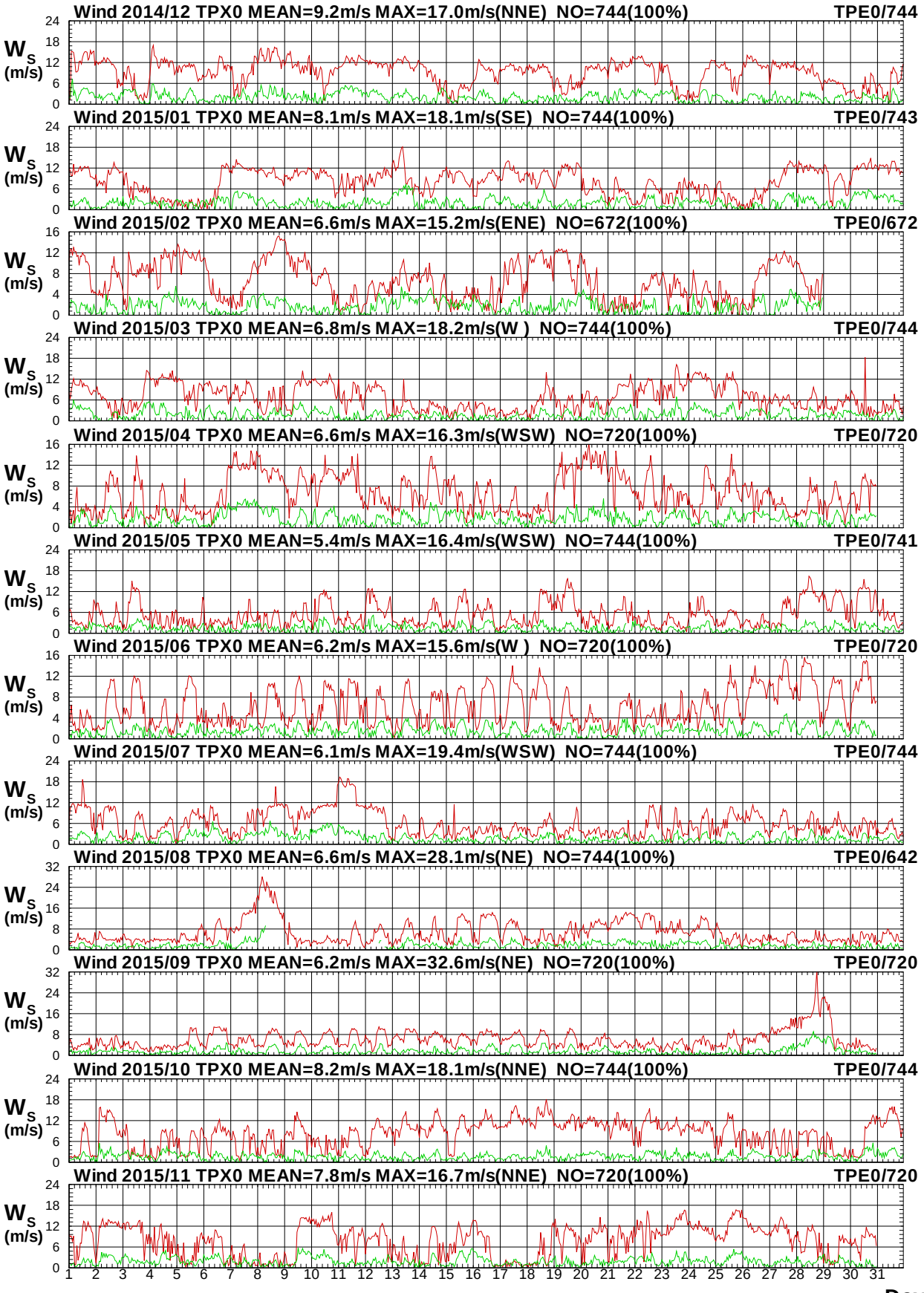

圖1.4a　2015年每月北苗海域 X 站與 E 站風速比較圖

W14CTPX0.1HA W14CTPE0.1H0 W151TPX0.1HA W151TPE0.1H0 W152TPX0.1HA W152TPE0.1H0
W153TPX0.1HA W153TPE0.1H0 W154TPX0.1HA W154TPE0.1H0 W155TPX0.1HA W155TPE0.1H0

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Wind Direction in Pei-Miao Seas of TPX0 at 2015

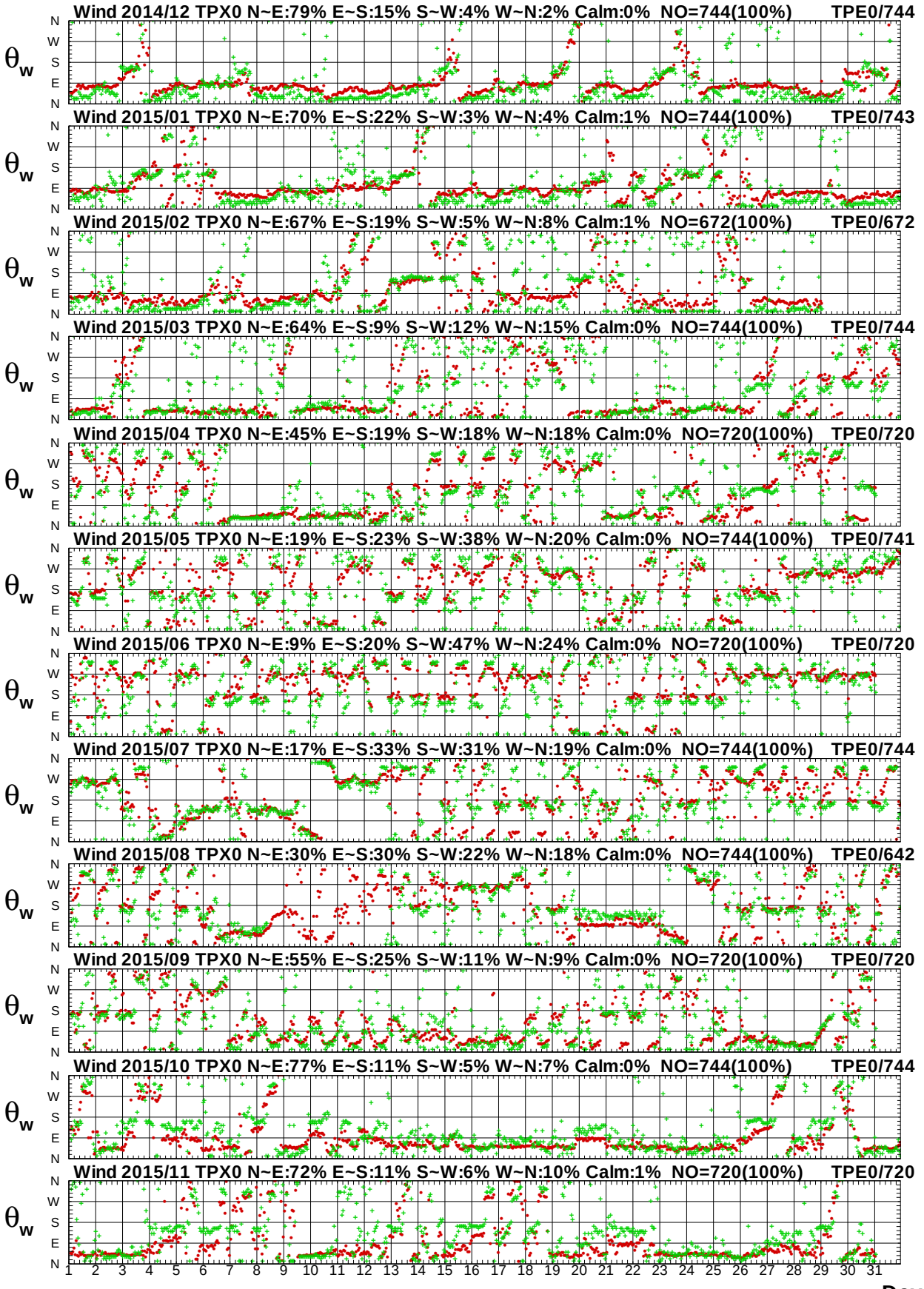

圖 1.4b　2015年每月北苗海域 X 站與 E 站風向比較圖

Wind Speed in Pei-Miao Seas of TPX0 at 2015

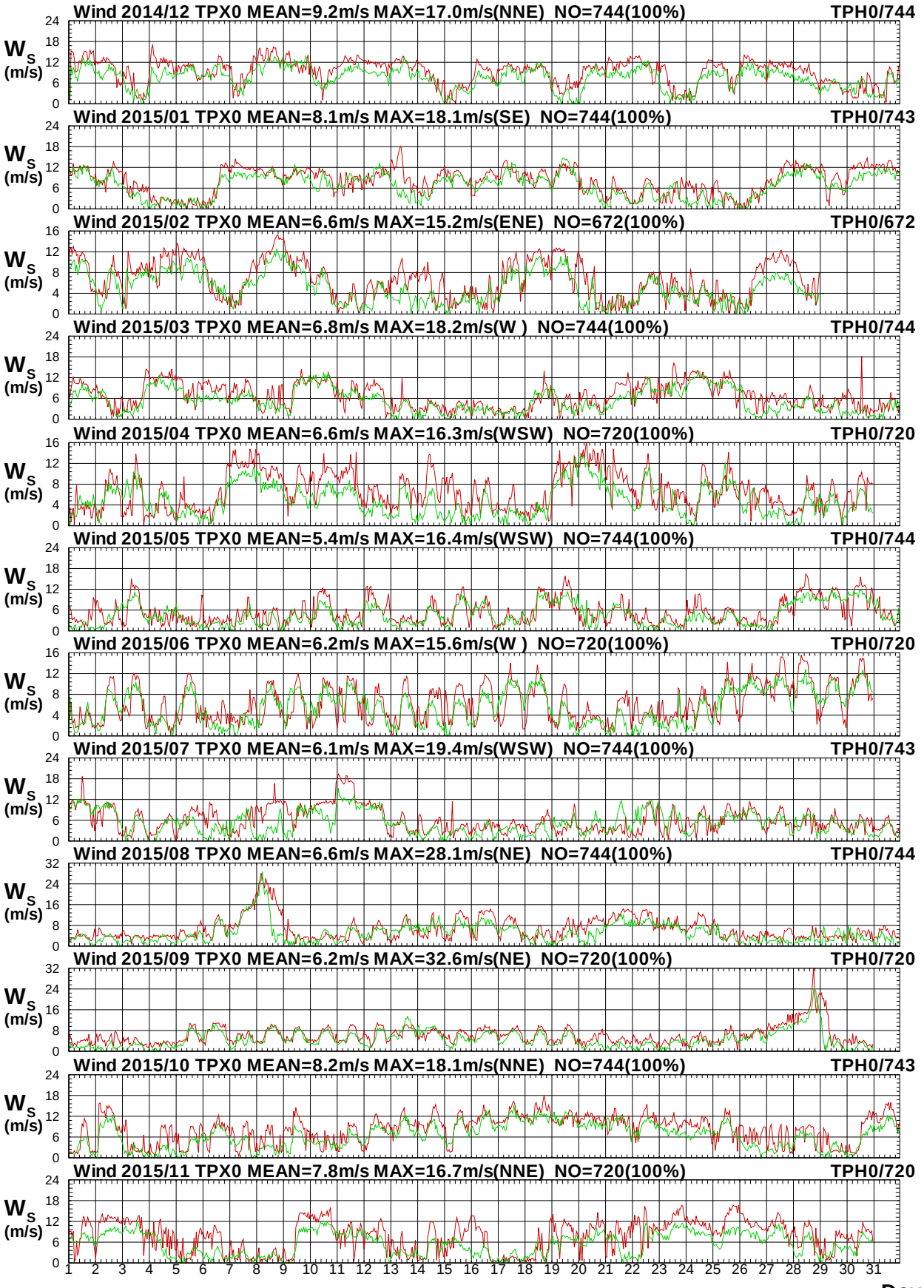

圖1.5a　2015年每月北苗海域 X 站與 H 站風速比較圖

W14CTPX0.1HA W14CTPH0.1H0 W151TPX0.1HA W151TPH0.1H0 W152TPX0.1HA W152TPH0.1H0
W153TPX0.1HA W153TPH0.1H0 W154TPX0.1HA W154TPH0.1H0 W155TPX0.1HA W155TPH0.1H0

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Wind Direction in Pei-Miao Seas of TPX0 at 2015

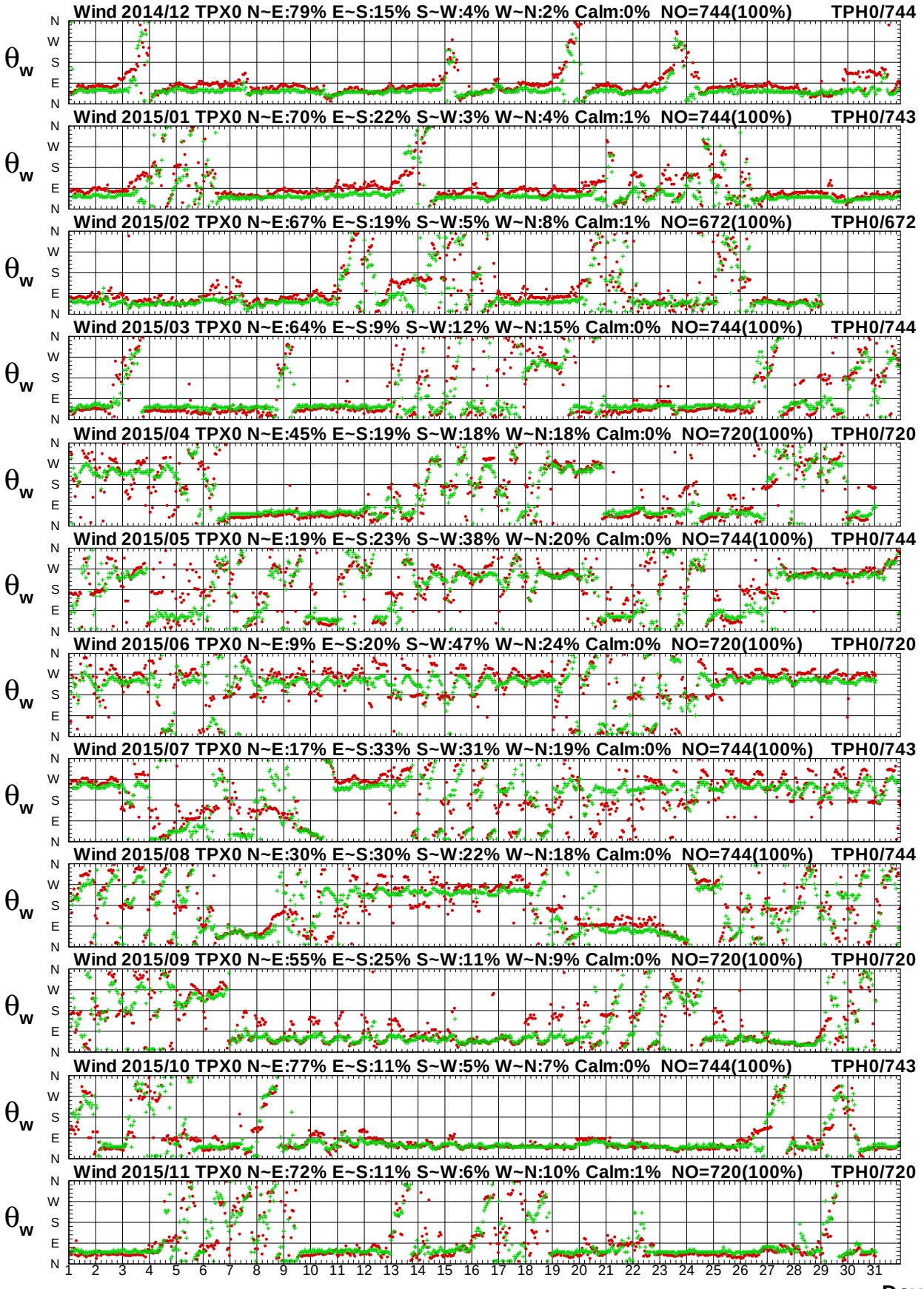

圖 1.5b　2015年每月北苗海域 X 站與 H 站風向比較圖

W14CTPX0.1HA W14CTPH0.1H0 W151TPX0.1HA W151TPH0.1H0 W152TPX0.1HA W152TPH0.1H0
W153TPX0.1HA W153TPH0.1H0 W154TPX0.1HA W154TPH0.1H0 W155TPX0.1HA W155TPH0.1H0

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Wind Speed in Pei-Miao Seas of TPX0 at 2015

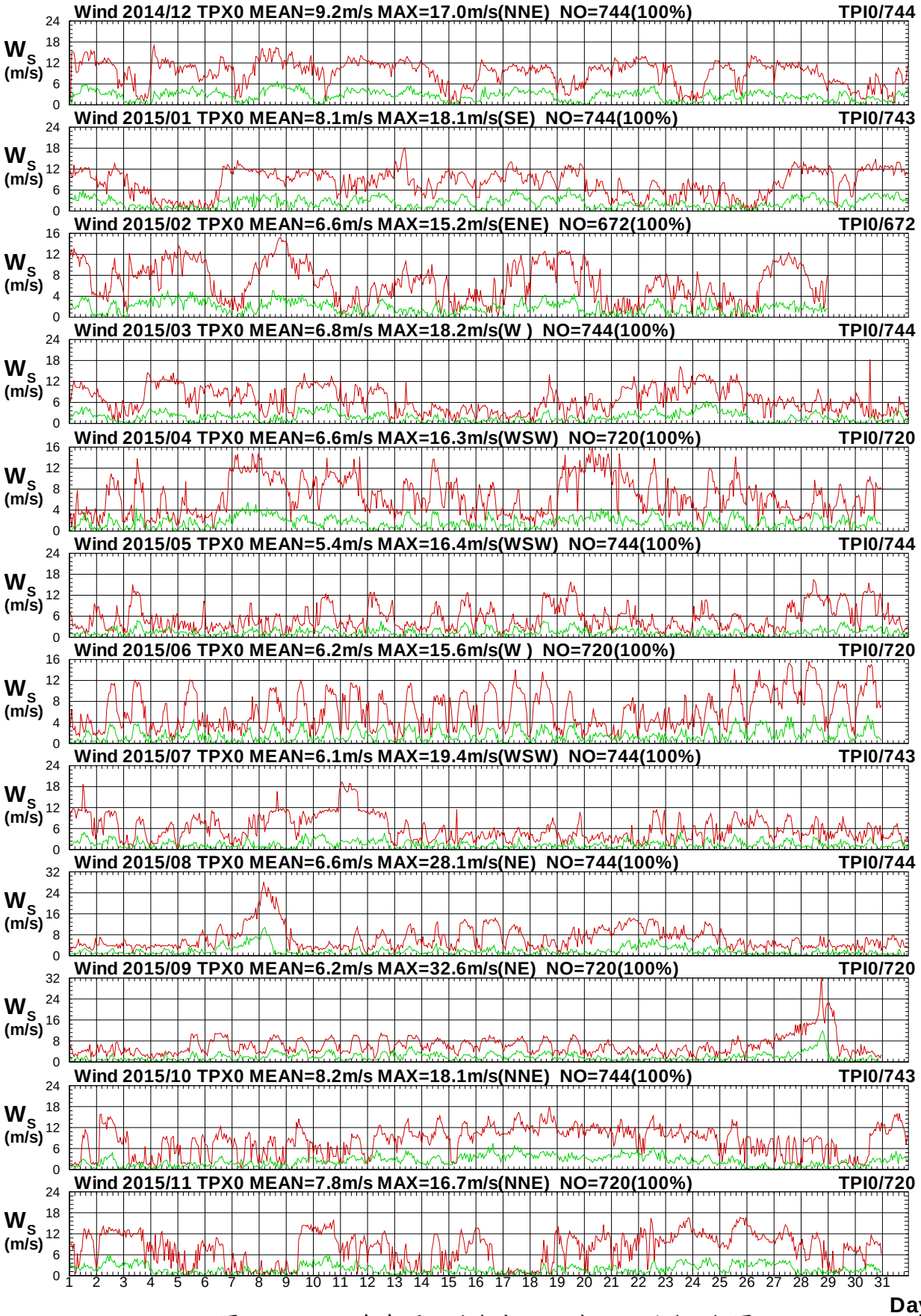

圖1.6a　2015年每月北苗海域 X 站與 I 站風速比較圖

W14CTPX0.1HA W14CTPI0.1H0 W151TPX0.1HA W151TPI0.1H0 W152TPX0.1HA W152TPI0.1H0
W153TPX0.1HA W153TPI0.1H0 W154TPX0.1HA W154TPI0.1H0 W155TPX0.1HA W155TPI0.1H0

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Wind Direction in Pei-Miao Seas of TPX0 at 2015

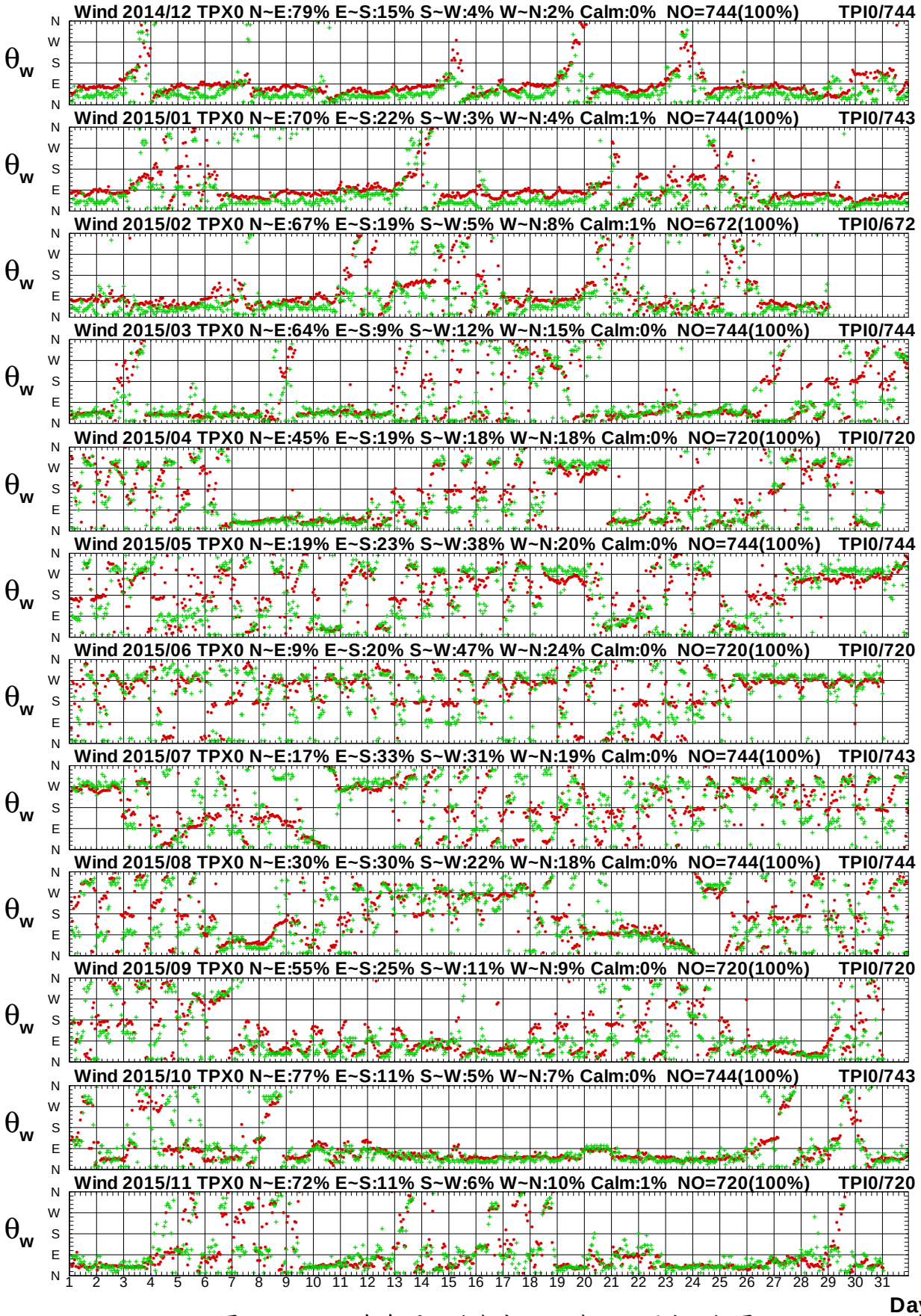

圖1.6b　2015年每月北苗海域 X 站與 I 站風向比較圖

Wind Speed in Pei-Miao Seas of TPX0 at 2015

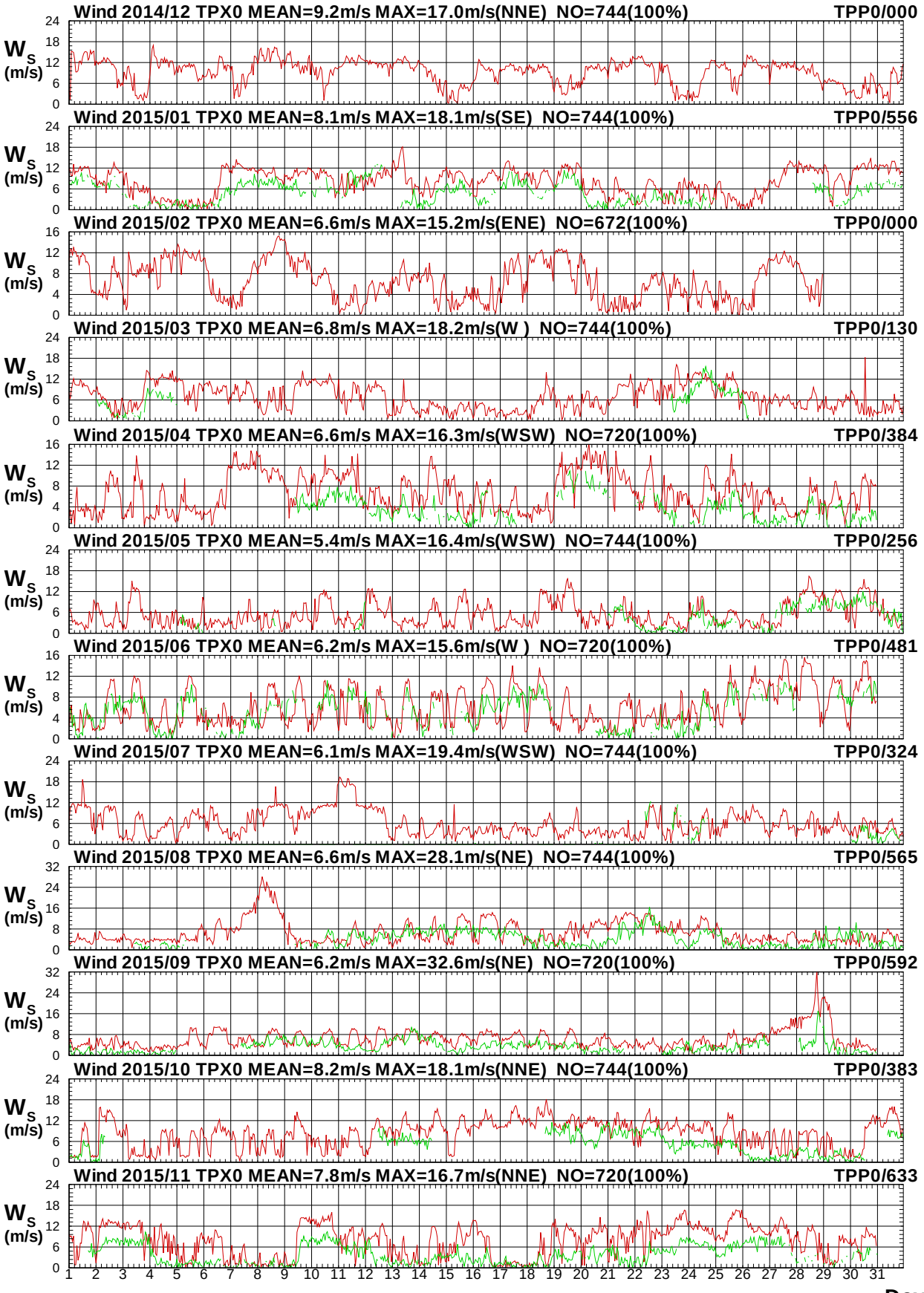

圖1.7a　2015年每月北苗海域 X 站與 P 站風速比較圖

W14CTPX0.1HA W14CTPP0.1H0 W151TPX0.1HA W151TPP0.1H0 W152TPX0.1HA W152TPP0.1H0
W153TPX0.1HA W153TPP0.1H0 W154TPX0.1HA W154TPP0.1H0 W155TPX0.1HA W155TPP0.1H0

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Wind Direction in Pei-Miao Seas of TPX0 at 2015

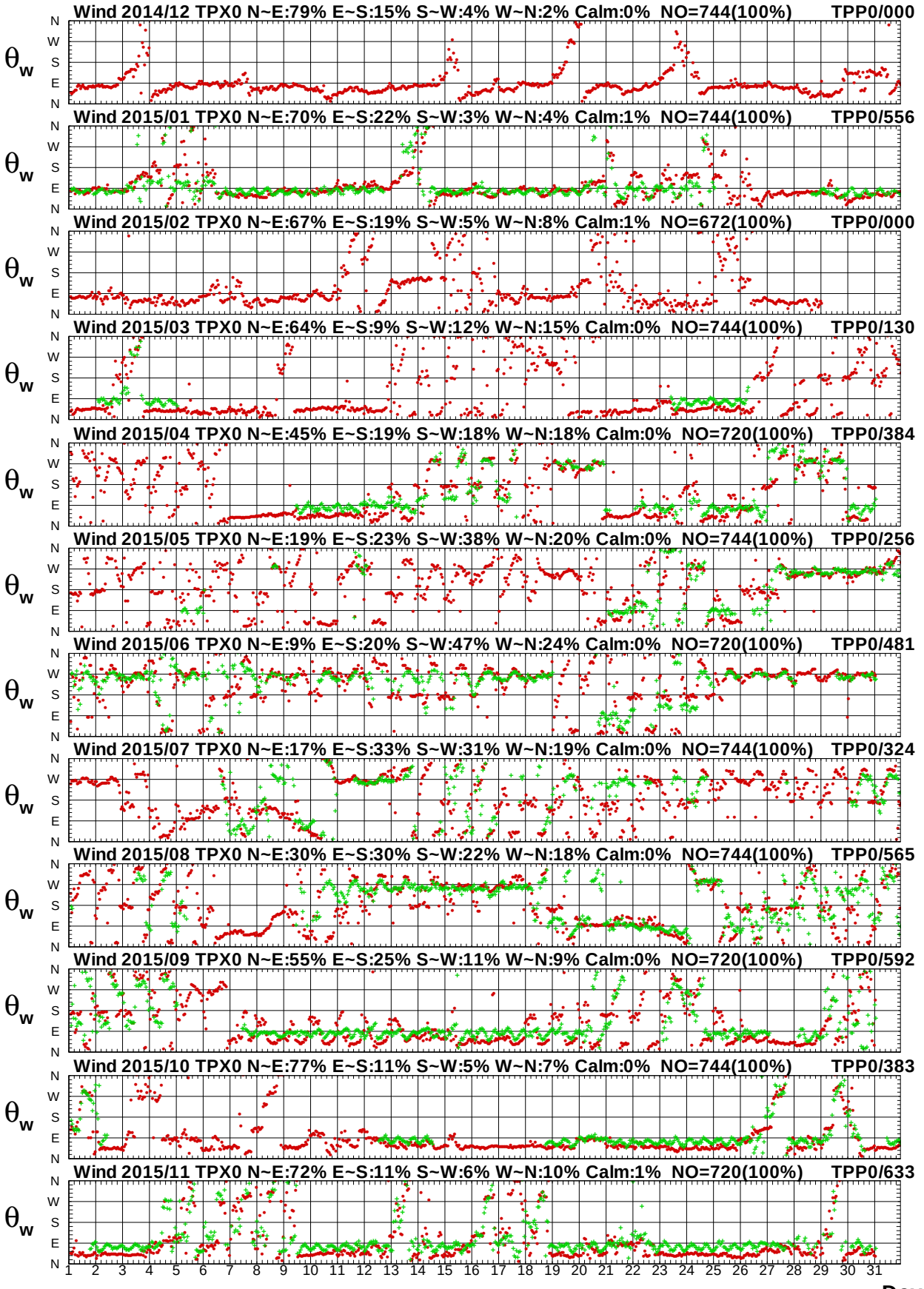

圖1.7b　2015年每月北苗海域 X 站與 P 站風向比較圖

Wind Speed in Pei-Miao Seas of TPX0 at 2015

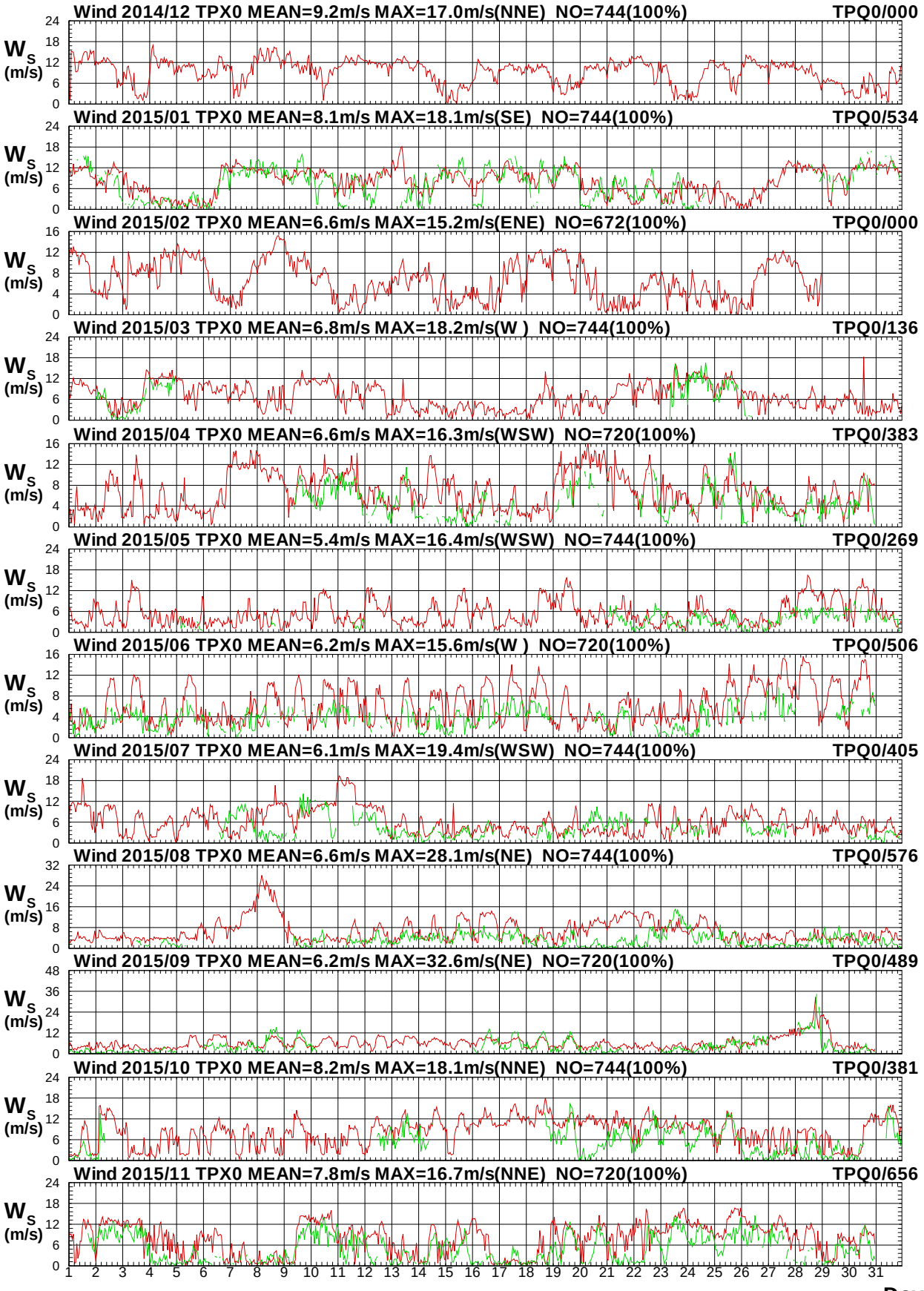

圖1.8a　2015年每月北苗海域 X 站與 Q 站風速比較圖

W14CTPX0.1HA W14CTPQ0.1H0 W151TPX0.1HA W151TPQ0.1H0 W152TPX0.1HA W152TPQ0.1H0
W153TPX0.1HA W153TPQ0.1H0 W154TPX0.1HA W154TPQ0.1H0 W155TPX0.1HA W155TPQ0.1H0

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Wind Direction in Pei-Miao Seas of TPX0 at 2015

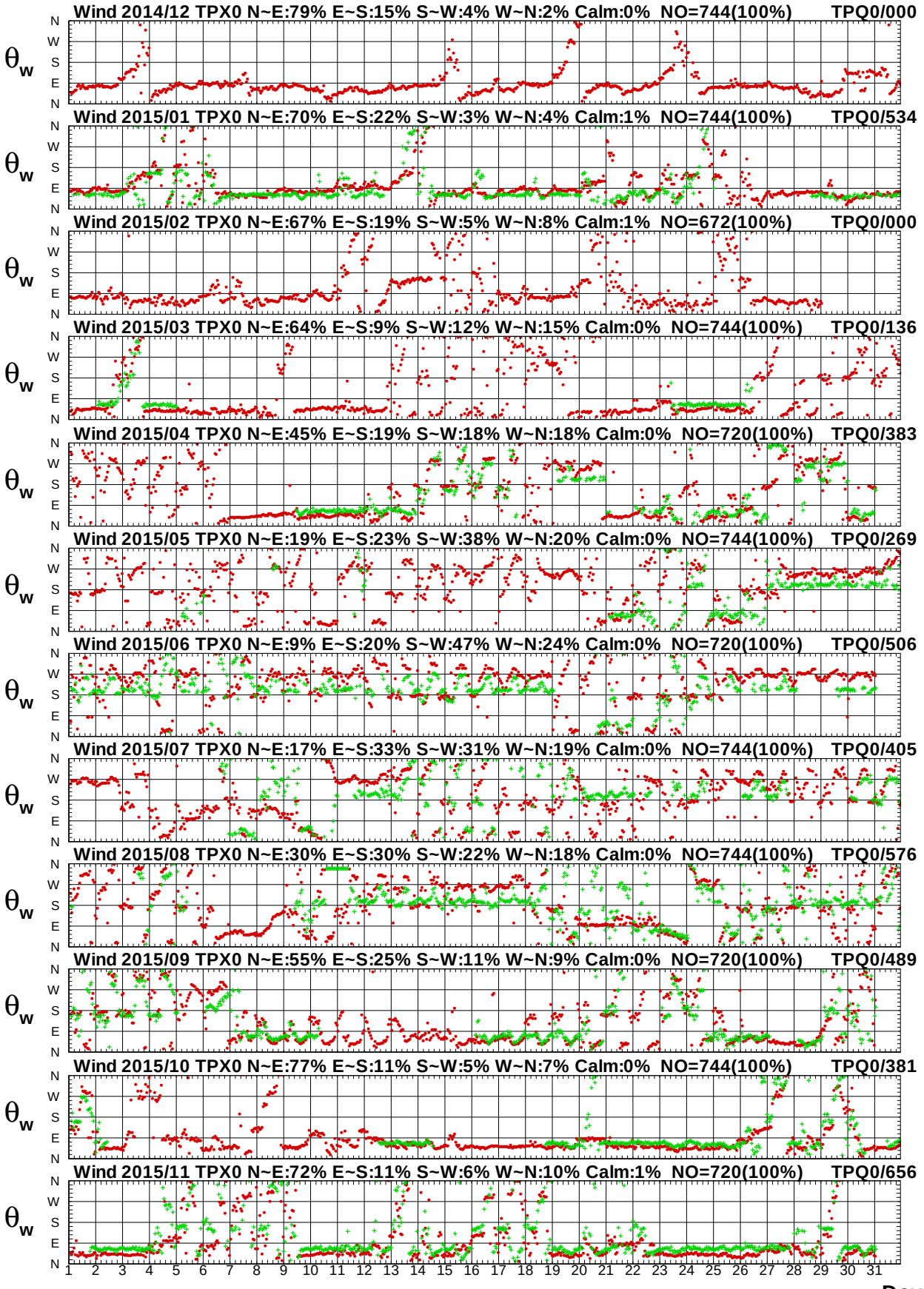

圖 1.8b　2015年每月北苗海域 X 站與 Q 站風向比較圖

Wind Speed in Pei-Miao Seas of TPX0 at 2015

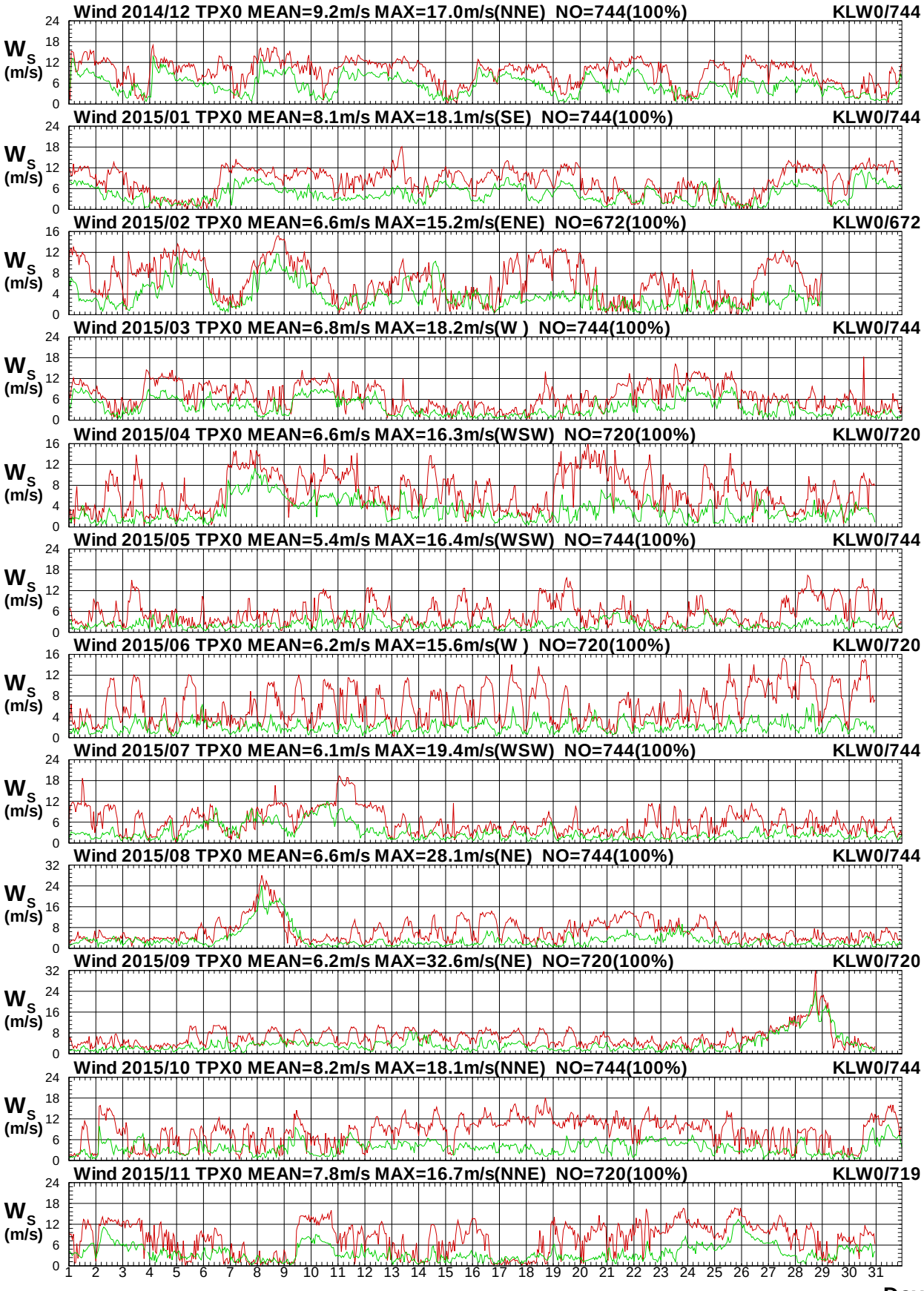

圖1.9a　2015年每月北苗海域 X 站與北端海域 W 站風速圖

W14CTPX0.1HA W14CKLW0.1H0 W151TPX0.1HA W151KLW0.1H0 W152TPX0.1HA W152KLW0.1H0
W153TPX0.1HA W153KLW0.1H0 W154TPX0.1HA W154KLW0.1H0 W155TPX0.1HA W155KLW0.1H0

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Wind Direction in Pei-Miao Seas of TPX0 at 2015

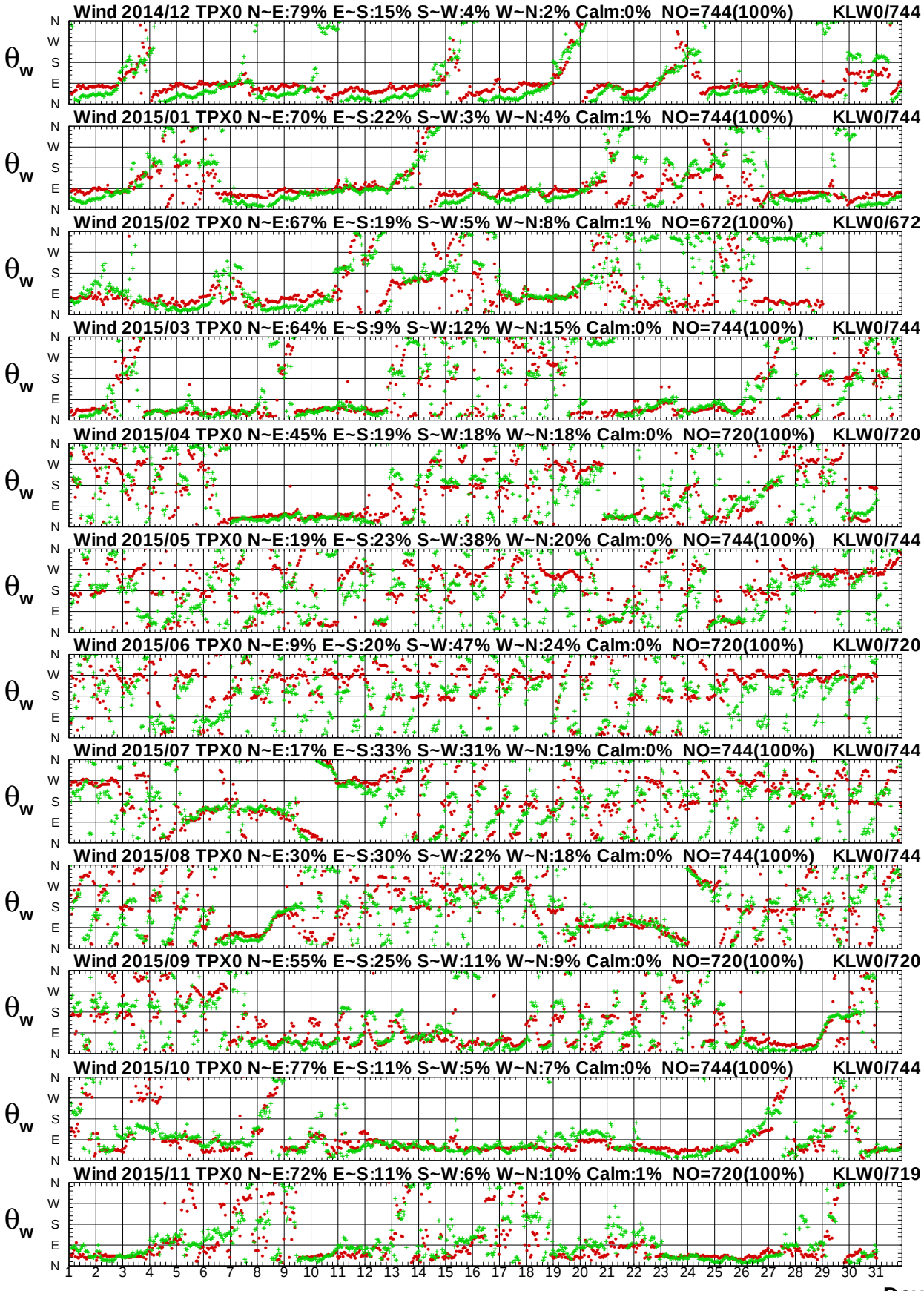

圖1.9b　2015年每月北苗海域 X 站與北端海域 W 站風向圖

W14CTPX0.1HA W14CKLW0.1H0 W151TPX0.1HA W151KLW0.1H0 W152TPX0.1HA W152KLW0.1H0
W153TPX0.1HA W153KLW0.1H0 W154TPX0.1HA W154KLW0.1H0 W155TPX0.1HA W155KLW0.1H0

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Wind Speed in Pei-Miao Seas of TPX0 at 2015

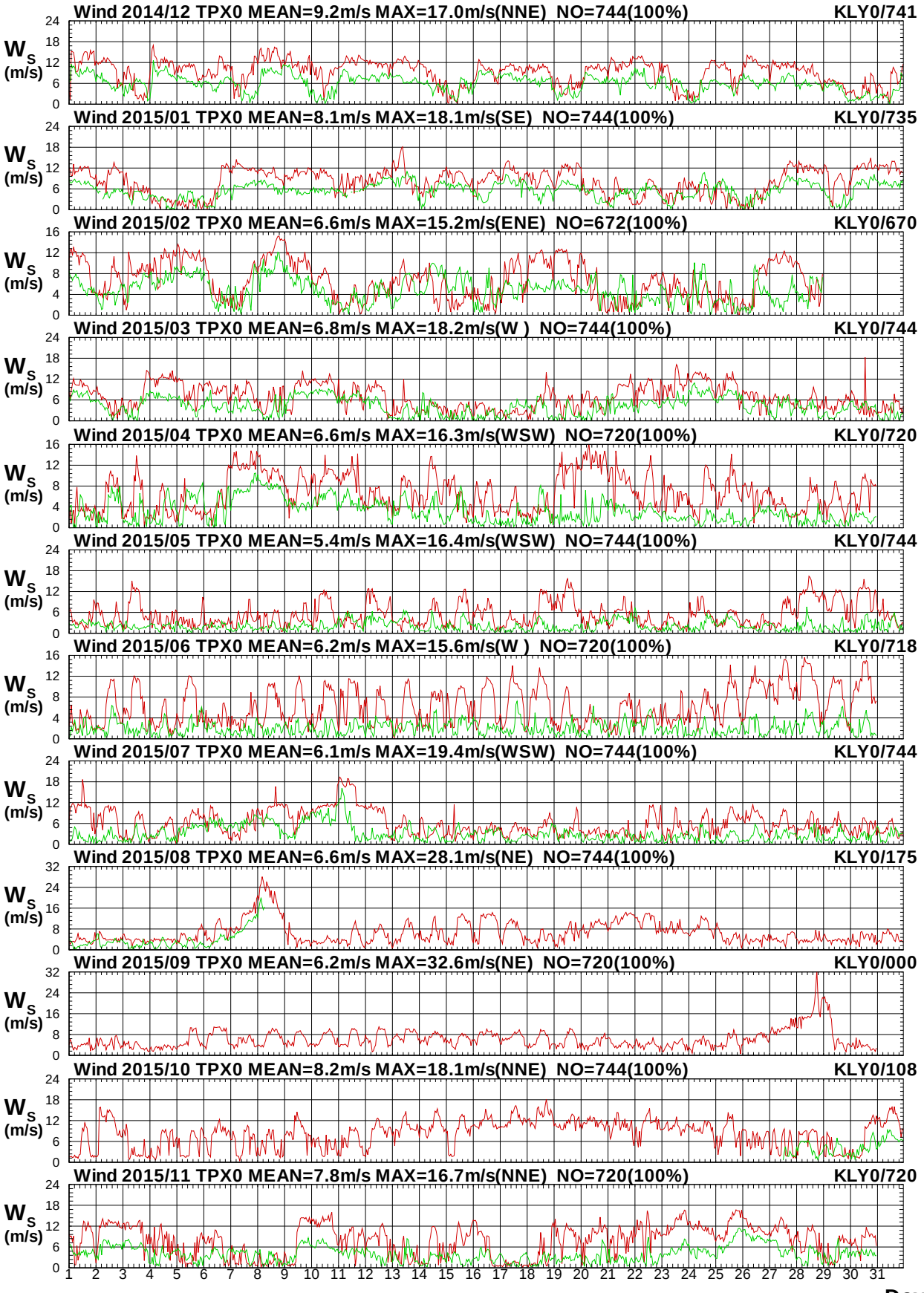

圖1.10a　2015年每月北苗海域 X 站與北端海域 Y 站風速圖

W14CTPX0.1HA W14CKLY0.1H0 W151TPX0.1HA W151KLY0.1H0 W152TPX0.1HA W152KLY0.1H0
W153TPX0.1HA W153KLY0.1H0 W154TPX0.1HA W154KLY0.1H0 W155TPX0.1HA W155KLY0.1H0

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Wind Direction in Pei-Miao Seas of TPX0 at 2015

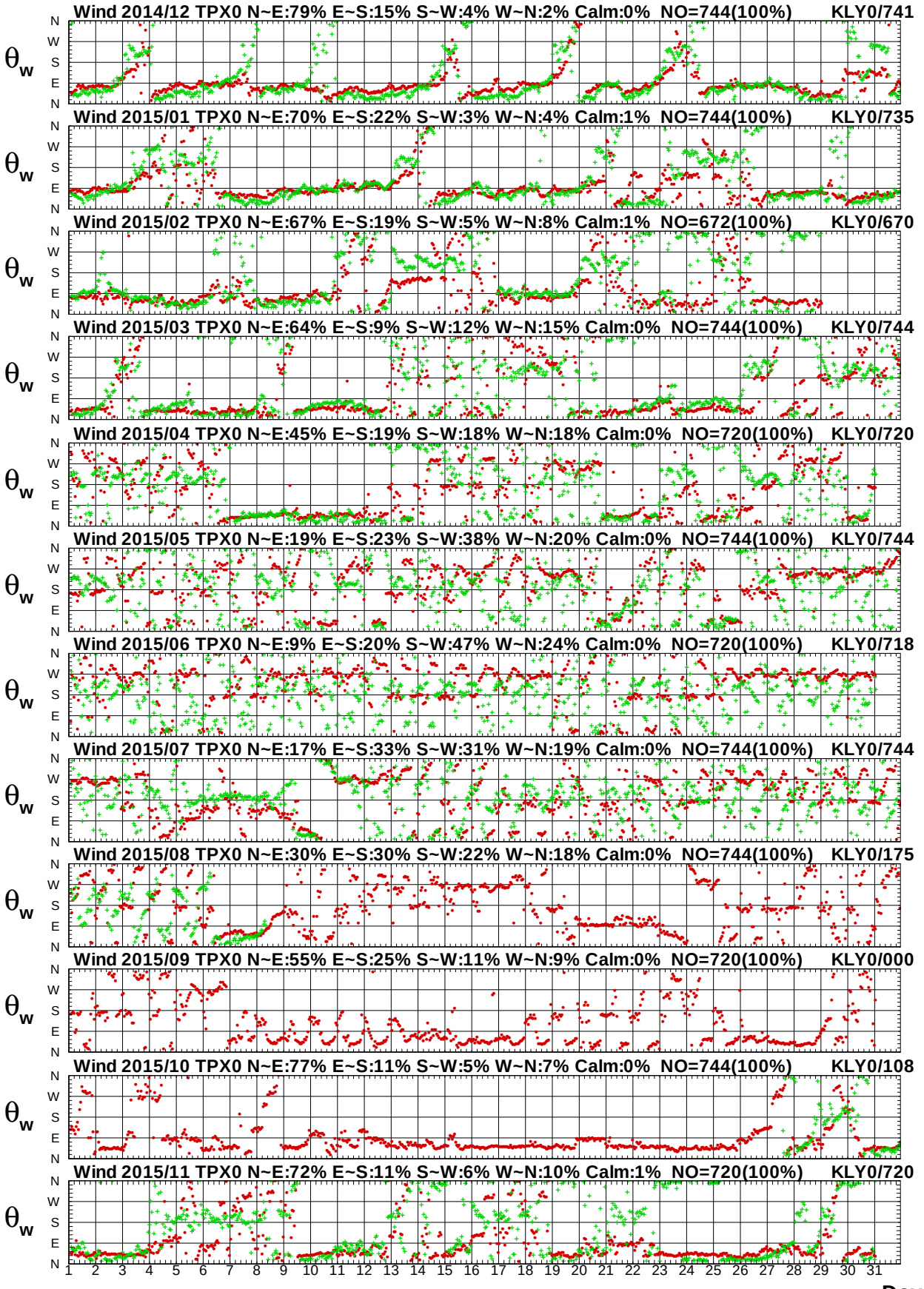

圖1.10b　2015年每月北苗海域 X 站與北端海域 Y 站風向圖

W14CTPX0.1HA W14CKLY0.1H0 W151TPX0.1HA W151KLY0.1H0 W152TPX0.1HA W152KLY0.1H0
W153TPX0.1HA W153KLY0.1H0 W154TPX0.1HA W154KLY0.1H0 W155TPX0.1HA W155KLY0.1H0

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Wind Speed in Pei-Miao Seas of TPX0 at 2015

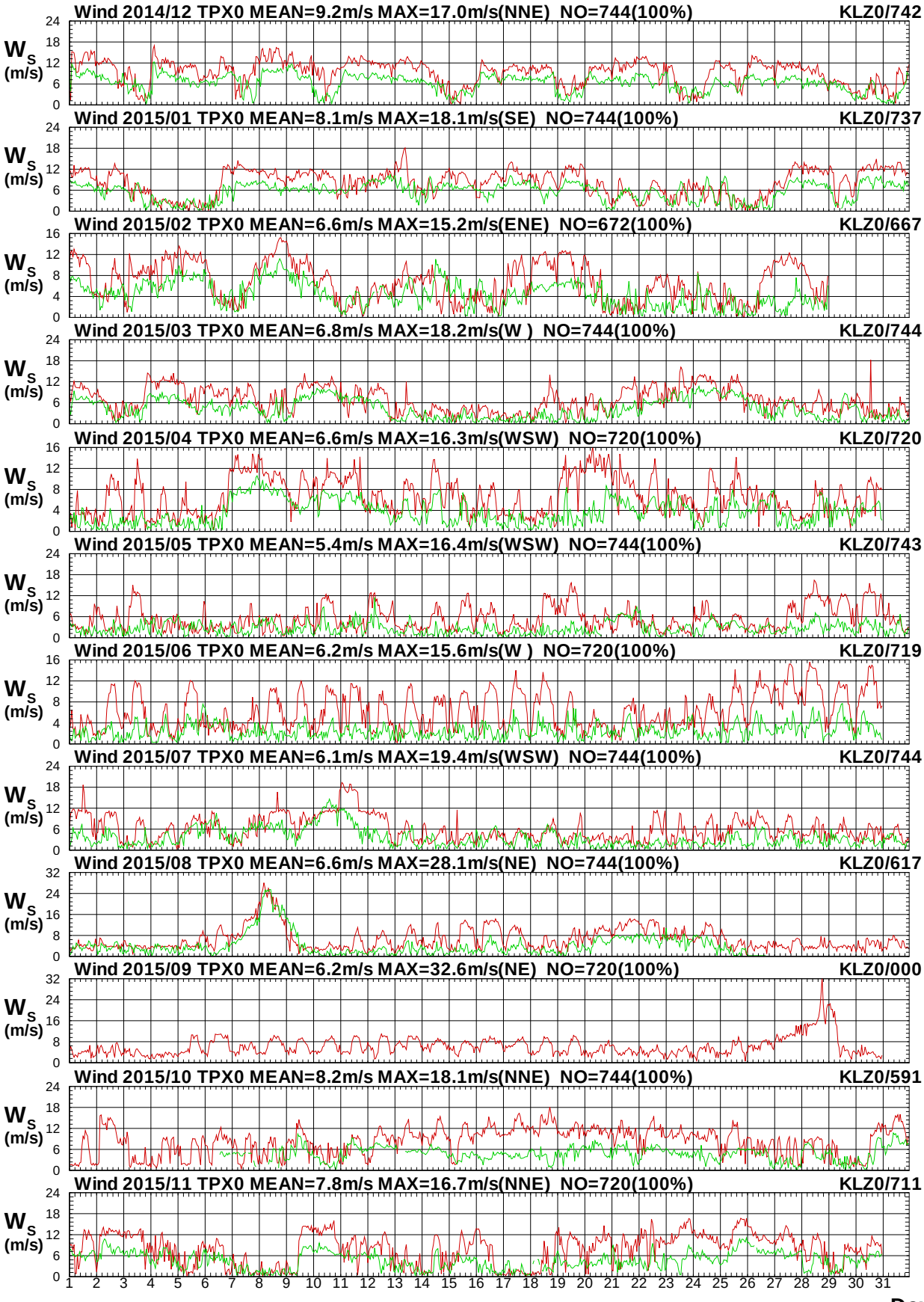

圖1.11a　2015年每月北苗海域 X 站與北端海域 Z 站風速圖

W14CTPX0.1HA W14CKLZ0.1H0 W151TPX0.1HA W151KLZ0.1H0 W152TPX0.1HA W152KLZ0.1H0
W153TPX0.1HA W153KLZ0.1H0 W154TPX0.1HA W154KLZ0.1H0 W155TPX0.1HA W155KLZ0.1H0

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Wind Direction in Pei-Miao Seas of TPX0 at 2015

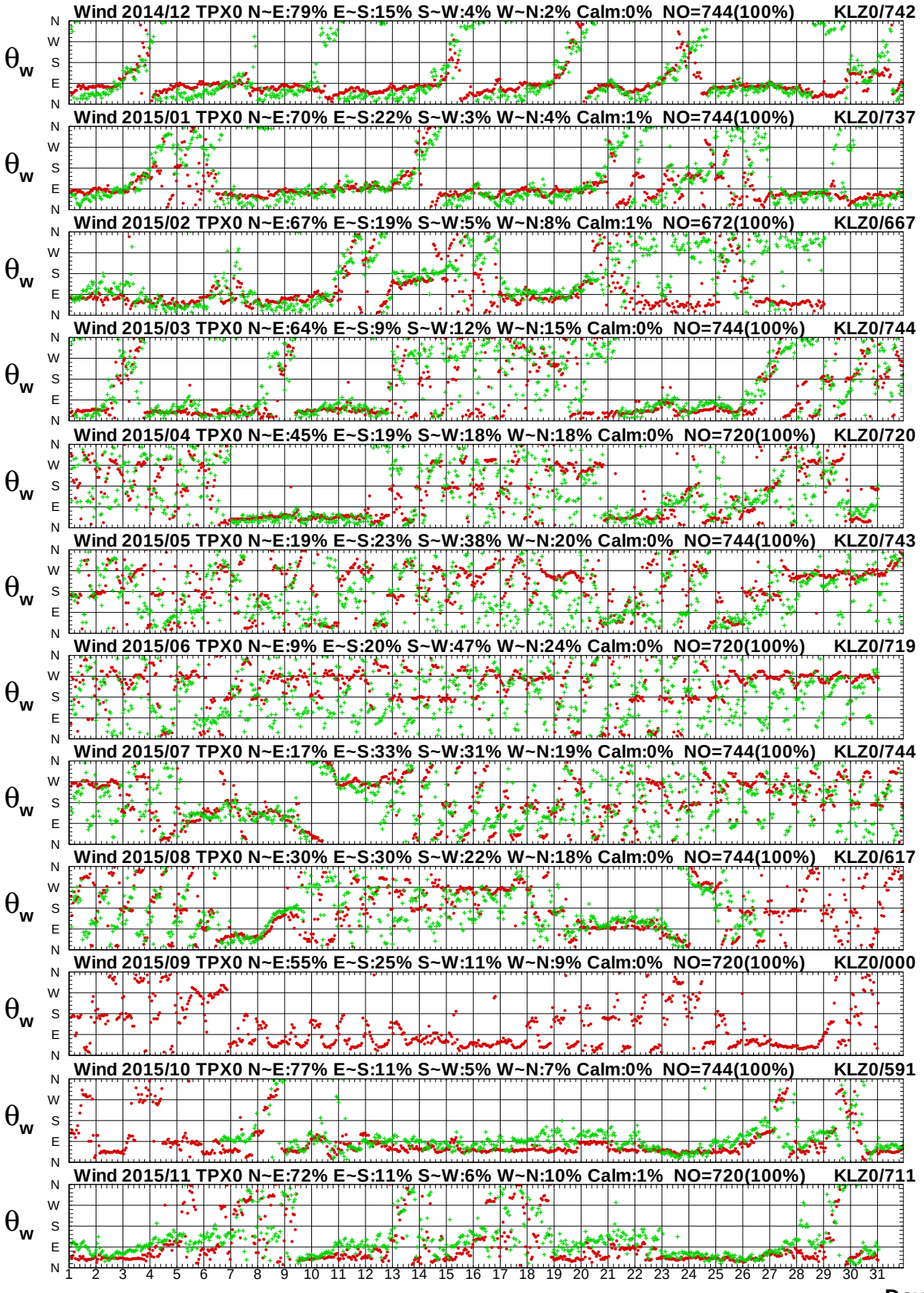

圖1.11b　2015年每月北苗海域 X 站與北端海域 Z 站風向圖

Wind Speed in Pei-Miao Seas of TPX0 at 2015

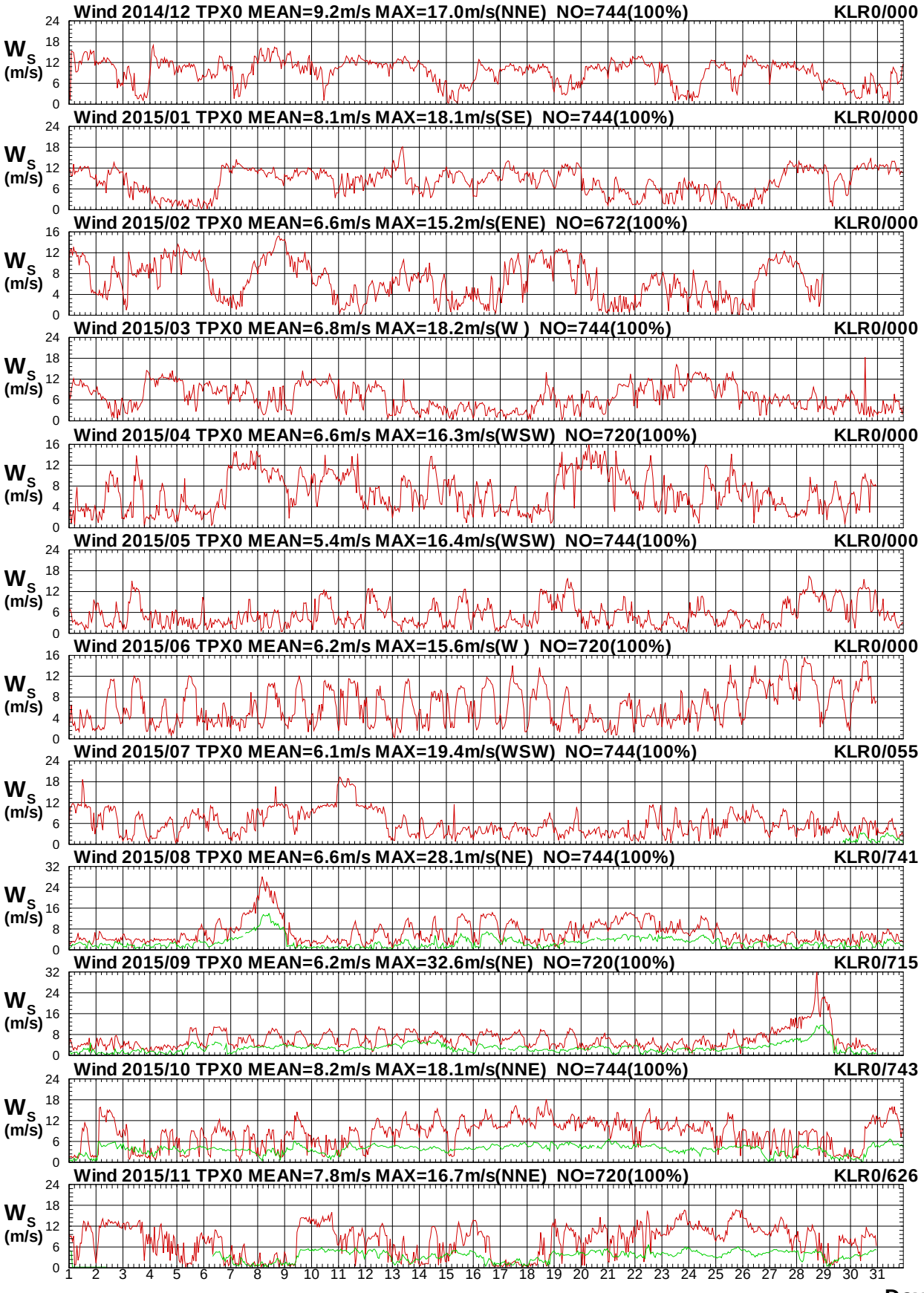

圖1.12a　2015年每月北苗海域 X 站與北端海域 R 站風速圖

W14CTPX0.1HA W14CKLR0.1H0 W151TPX0.1HA W151KLR0.1H0 W152TPX0.1HA W152KLR0.1H0
W153TPX0.1HA W153KLR0.1H0 W154TPX0.1HA W154KLR0.1H0 W155TPX0.1HA W155KLR0.1H0

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Wind Direction in Pei-Miao Seas of TPX0 at 2015

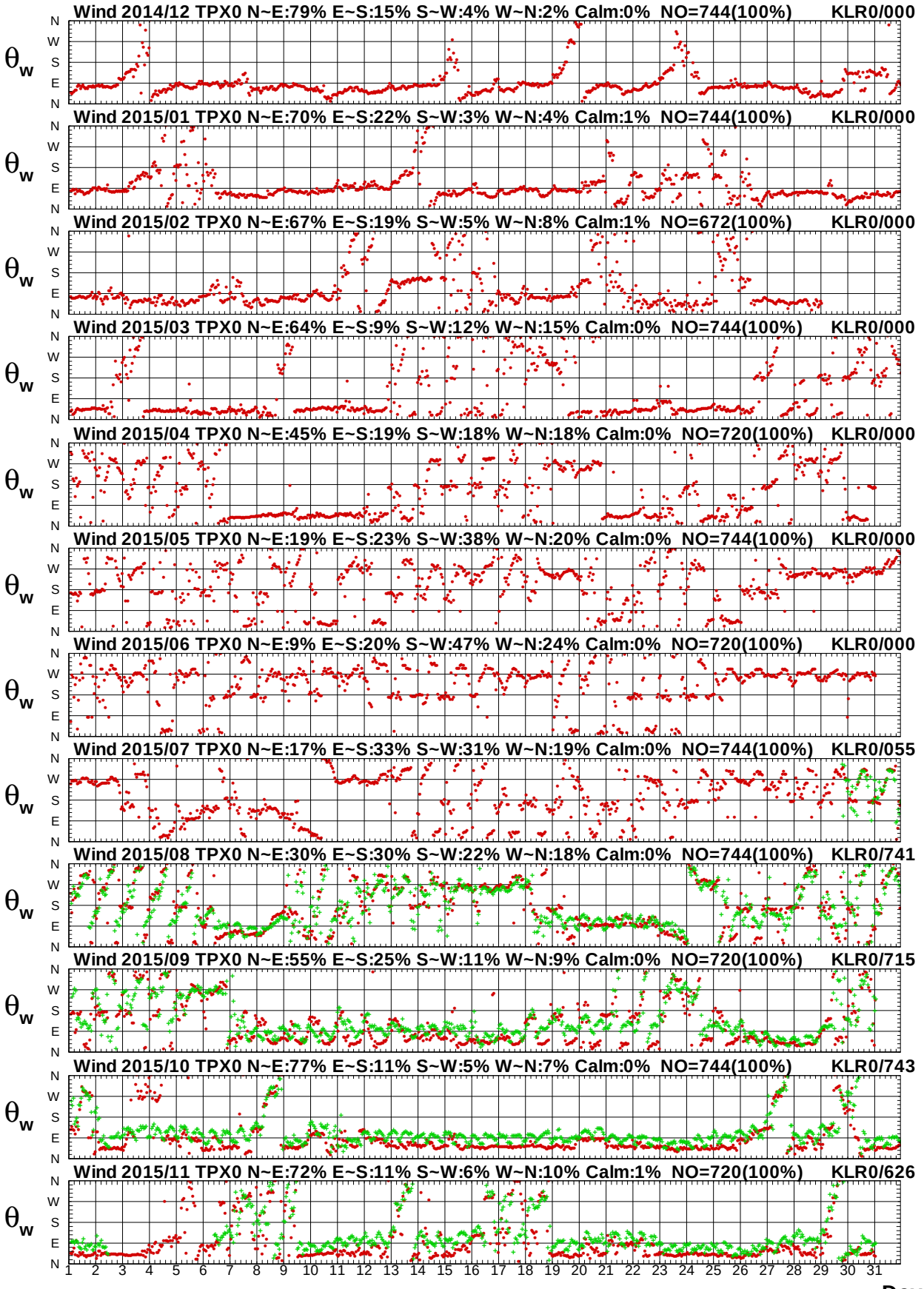

圖1.12b　2015年每月北苗海域 X 站與北端海域 R 站風向圖

Wind Speed in Pei-Miao Seas of TPX0 at 2015

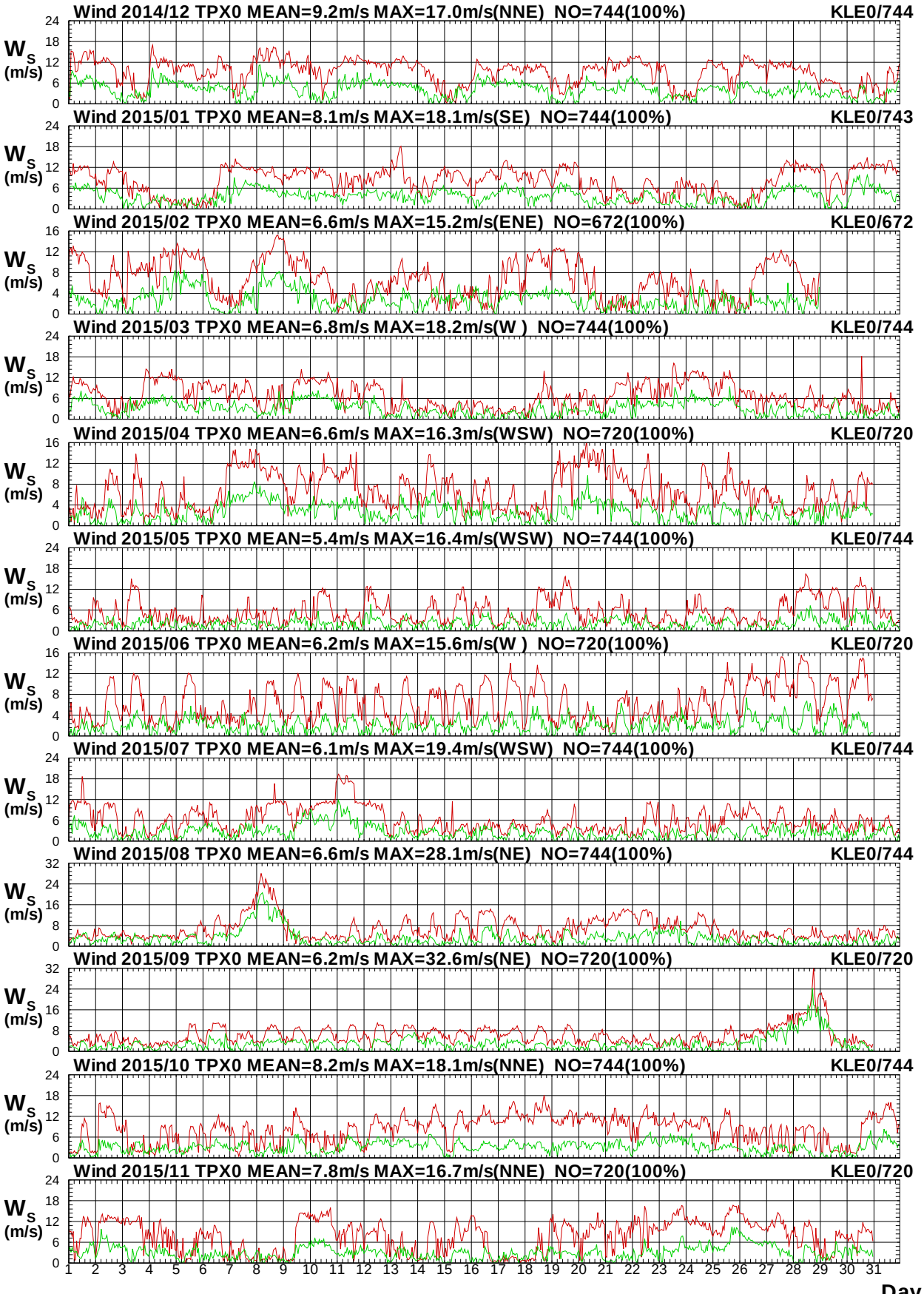

圖 1.13a　2015年每月北苗海域 X 站與北端海域 E 站風速圖

W14CTPX0.1HA W14CKLE0.1H0 W151TPX0.1HA W151KLE0.1H0 W152TPX0.1HA W152KLE0.1H0
W153TPX0.1HA W153KLE0.1H0 W154TPX0.1HA W154KLE0.1H0 W155TPX0.1HA W155KLE0.1H0

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Wind Direction in Pei-Miao Seas of TPX0 at 2015

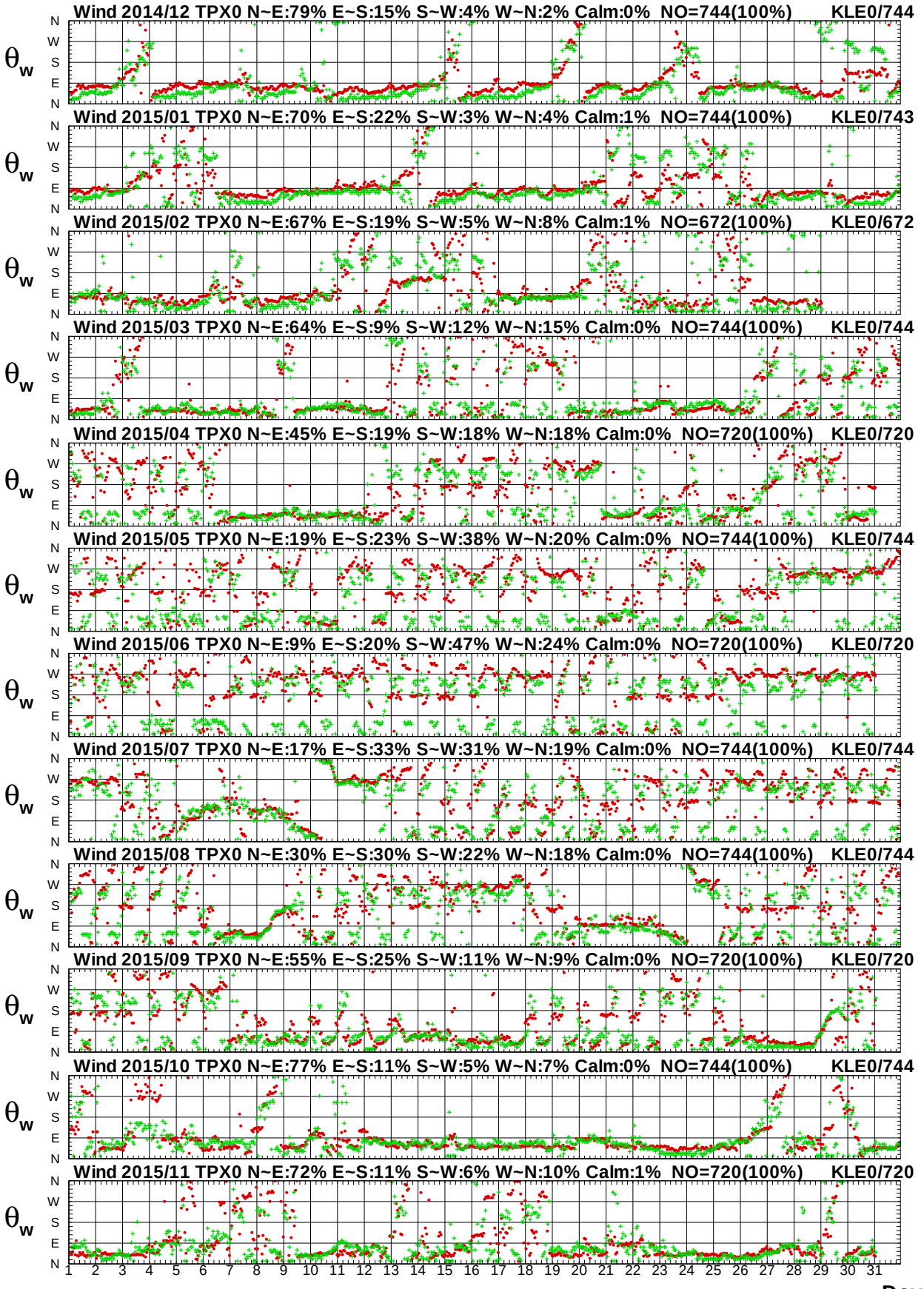

圖1.13b　2015年每月北苗海域 X 站與北端海域 E 站風向圖

Wind Speed in Pei-Miao Seas of TPX0 at 2015

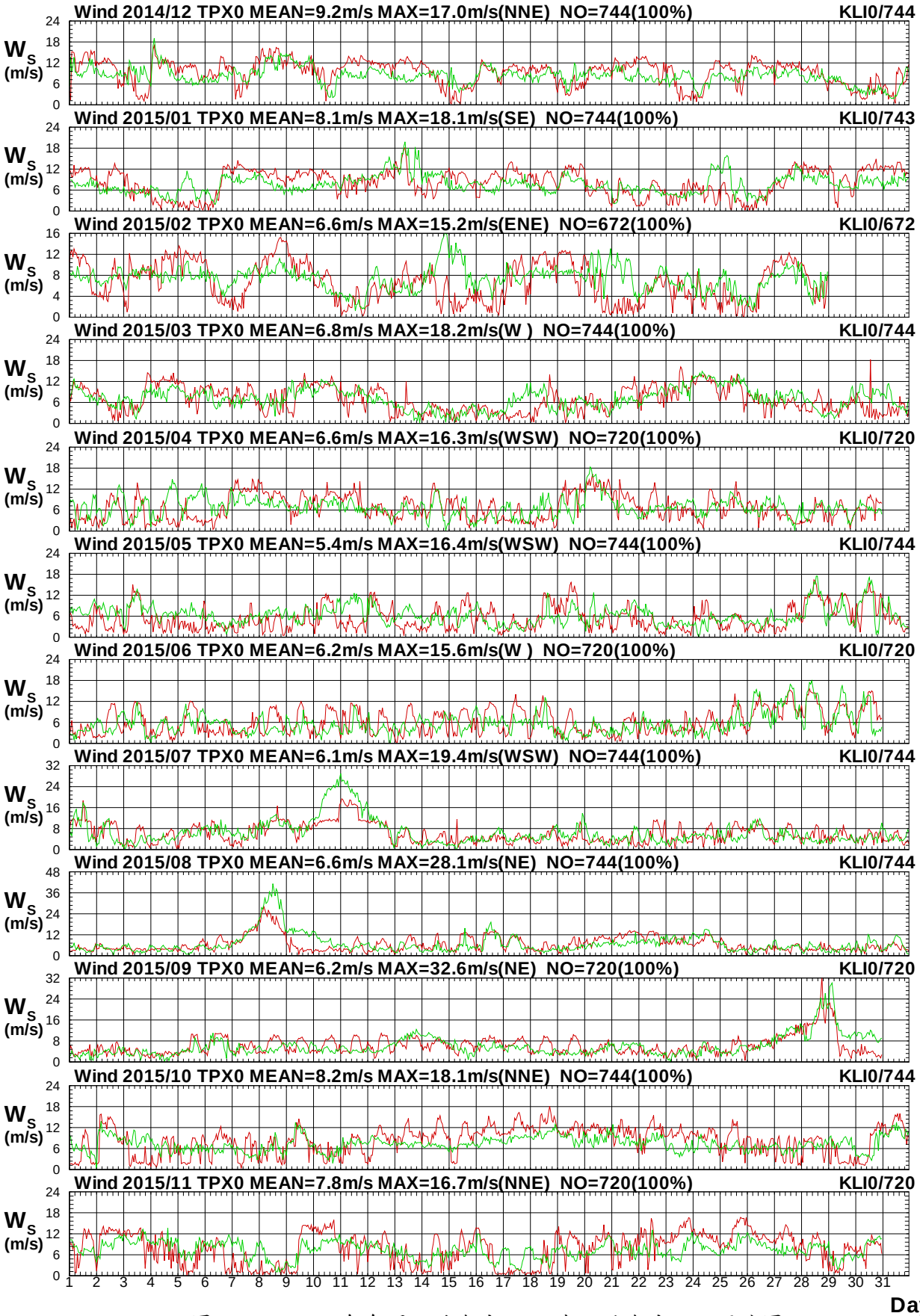

圖 1.14a　2015年每月北苗海域 X 站與北端海域 I 站風速圖

W14CTPX0.1HA W14CKLI0.1H0 W151TPX0.1HA W151KLI0.1H0 W152TPX0.1HA W152KLI0.1H0
W153TPX0.1HA W153KLI0.1H0 W154TPX0.1HA W154KLI0.1H0 W155TPX0.1HA W155KLI0.1H0

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Wind Direction in Pei-Miao Seas of TPX0 at 2015

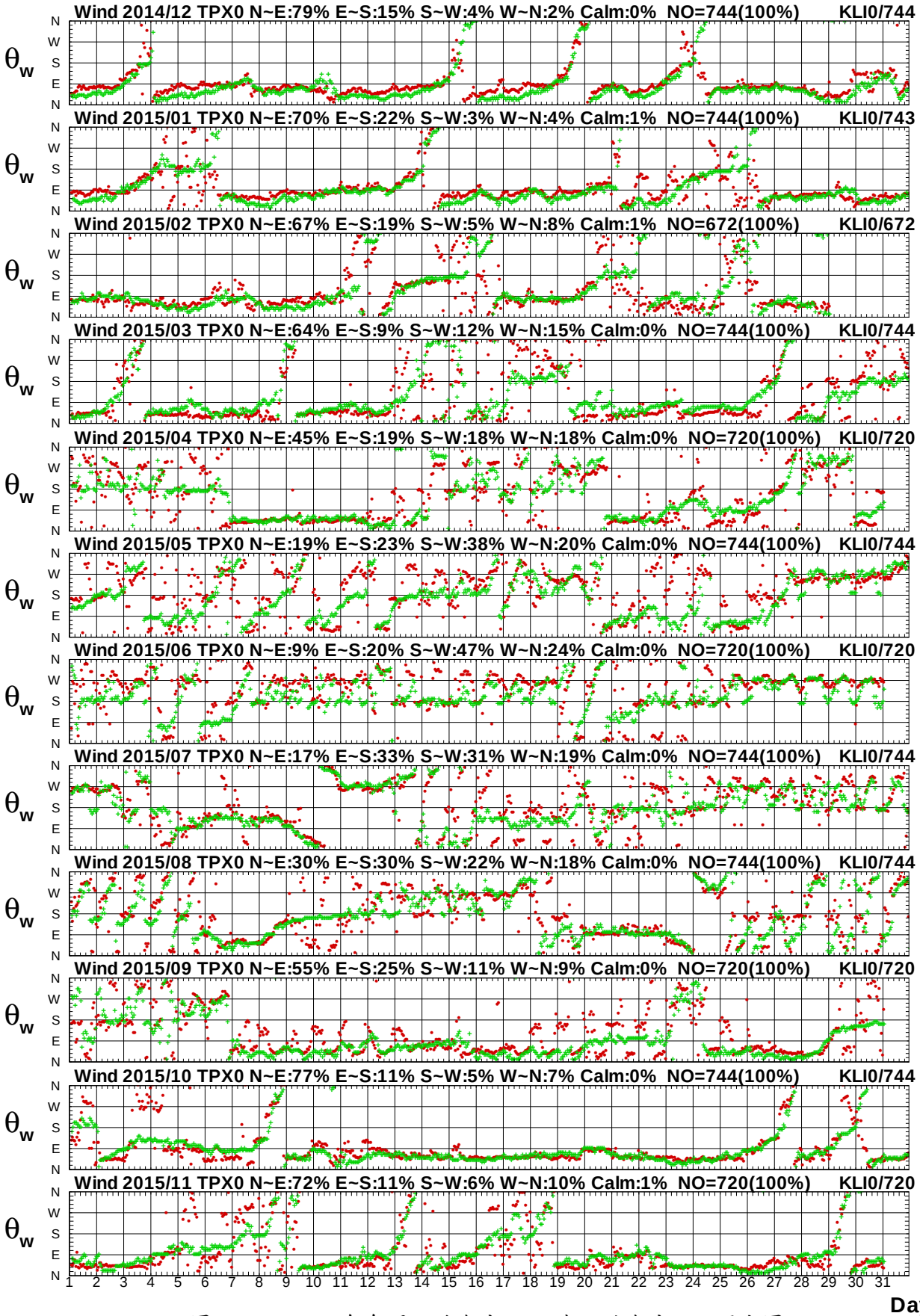

圖 1.14b　2015年每月北苗海域 X 站與北端海域 I 站風向圖

Wind Speed in Pei-Miao Seas of TPX0 at 2015

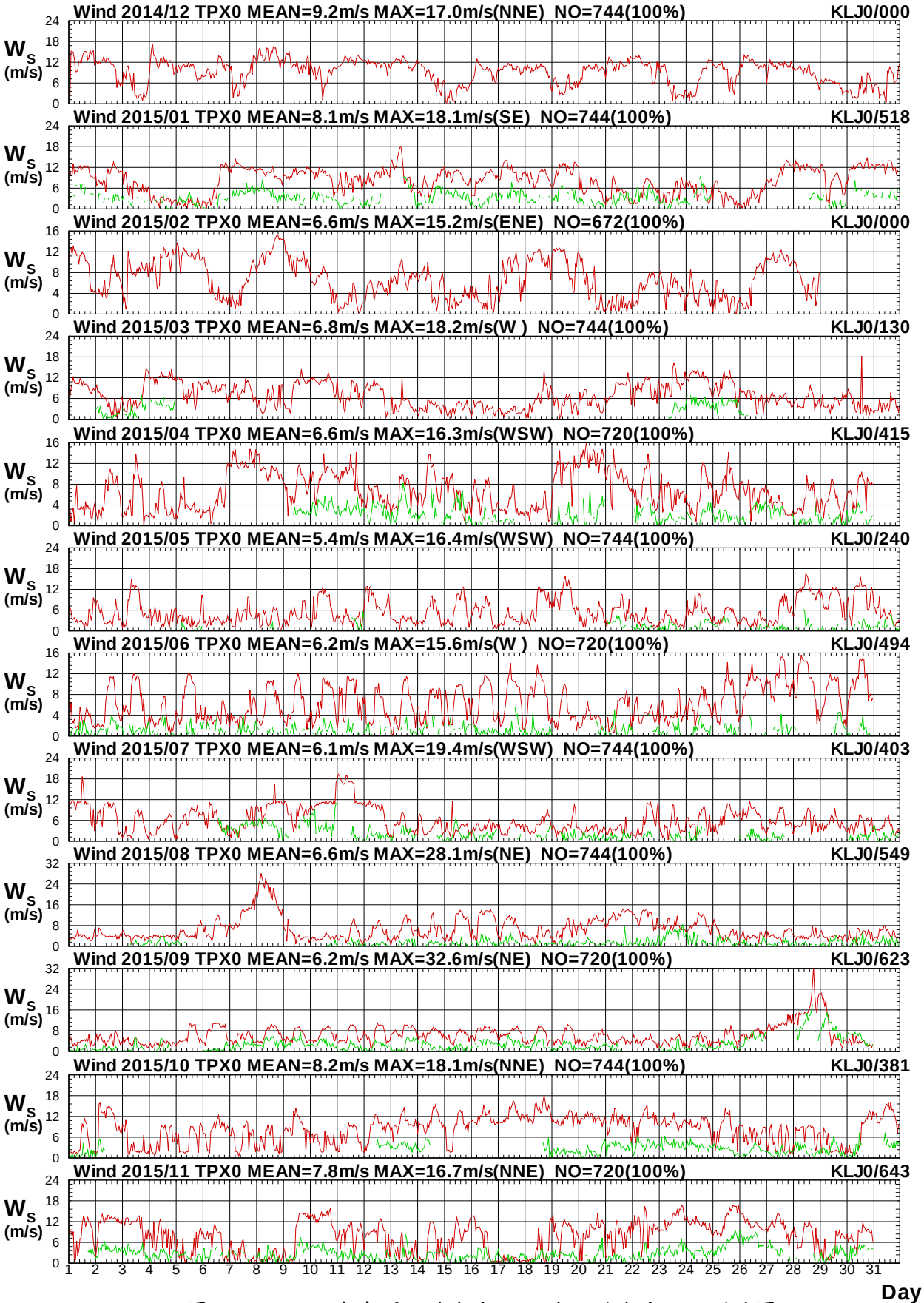

圖1.15a　2015年每月北苗海域 X 站與北端海域 J 站風速圖

W14CTPX0.1HA W14CKLJ0.1H0 W151TPX0.1HA W151KLJ0.1H0 W152TPX0.1HA W152KLJ0.1H0
W153TPX0.1HA W153KLJ0.1H0 W154TPX0.1HA W154KLJ0.1H0 W155TPX0.1HA W155KLJ0.1H0

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Wind Direction in Pei-Miao Seas of TPX0 at 2015

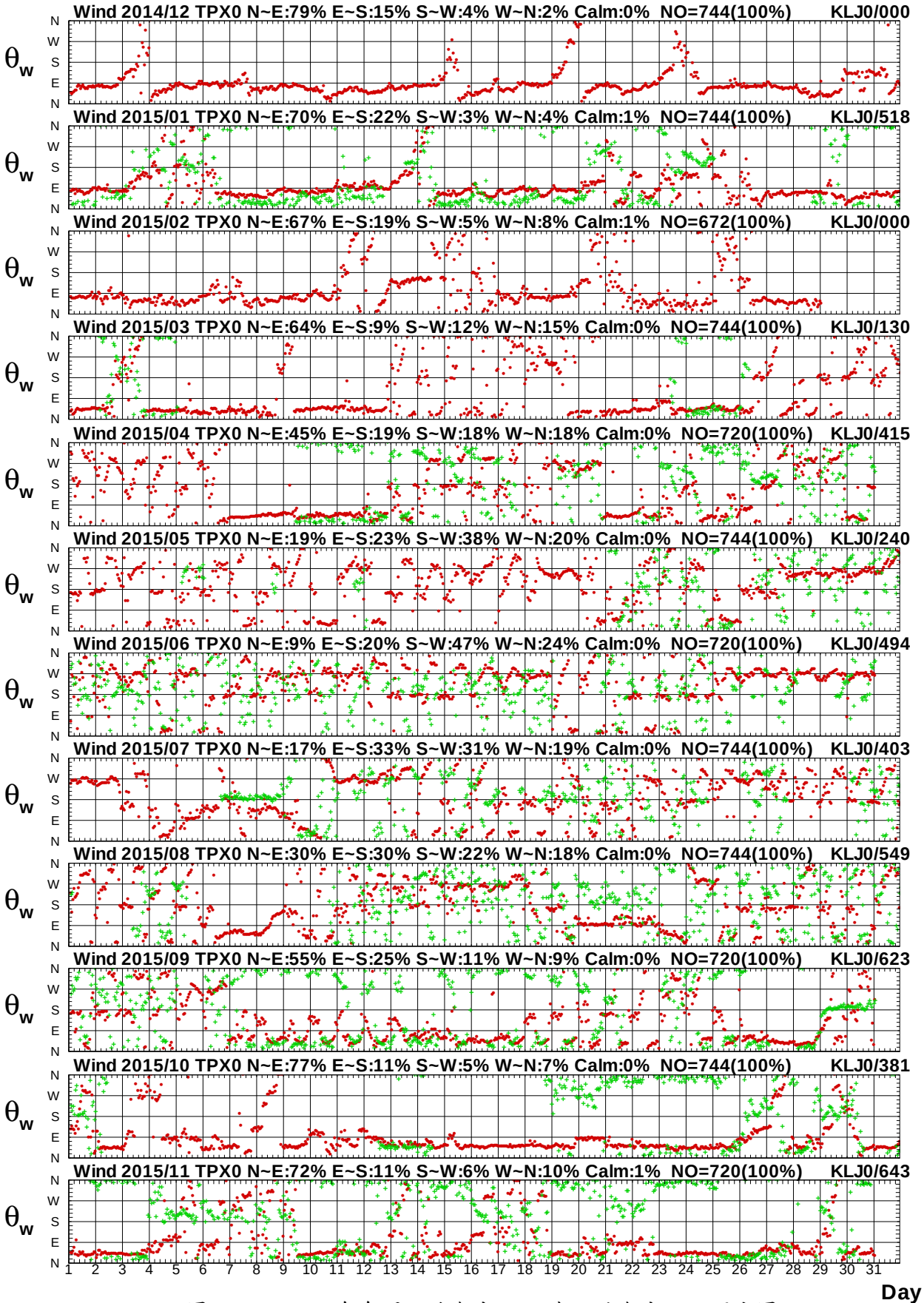

圖1.15b　2015年每月北苗海域 X 站與北端海域 J 站風向圖

Wind Speed in Pei-Miao Seas of TPX0 at 2015

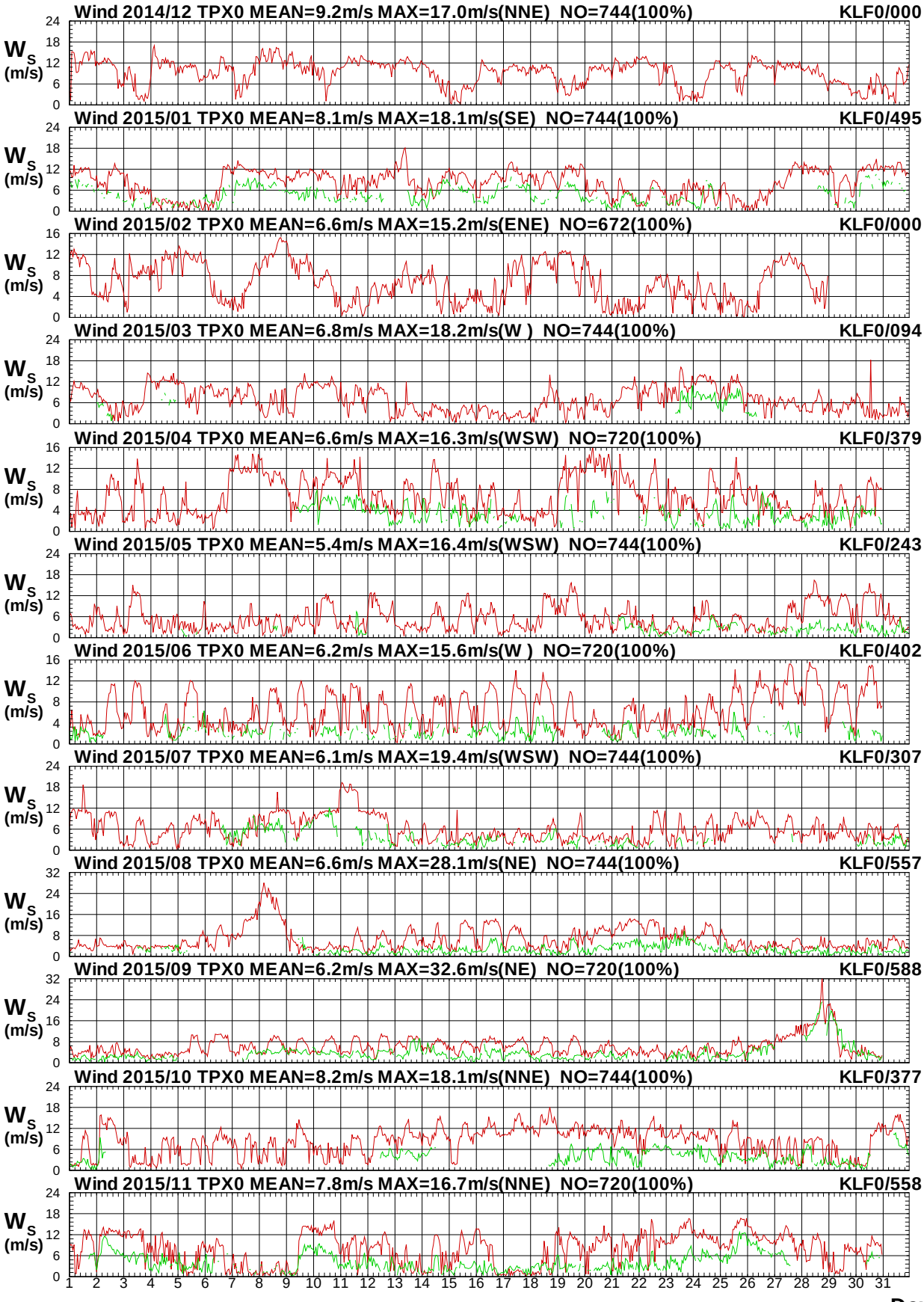

圖 1.16a　2015年每月北苗海域 X 站與北端海域 F 站風速圖

W14CTPX0.1HA W14CKLF0.1H0 W151TPX0.1HA W151KLF0.1H0 W152TPX0.1HA W152KLF0.1H0
W153TPX0.1HA W153KLF0.1H0 W154TPX0.1HA W154KLF0.1H0 W155TPX0.1HA W155KLF0.1H0

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Wind Direction in Pei-Miao Seas of TPX0 at 2015

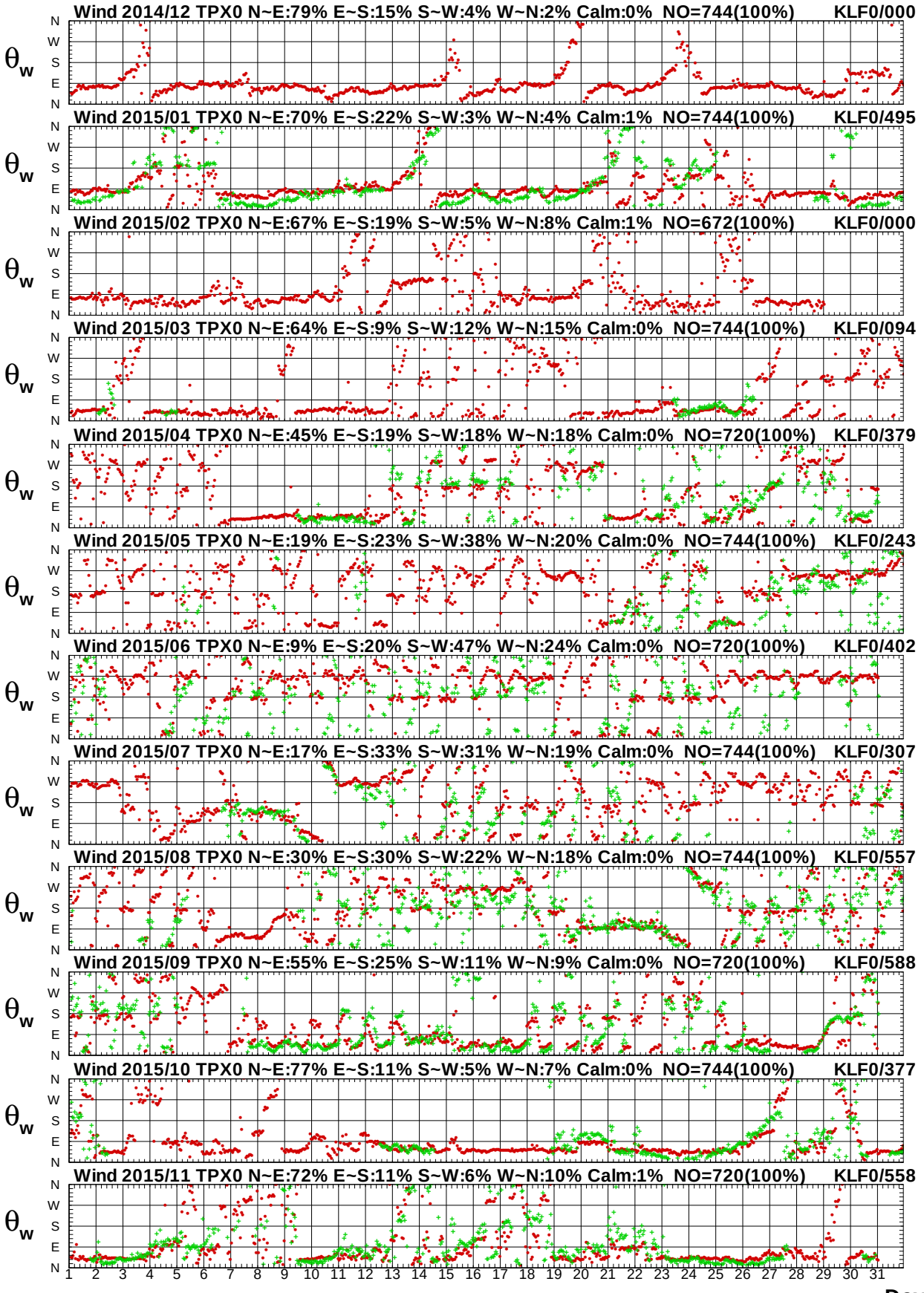

圖1.16b　2015年每月北苗海域 X 站與北端海域 F 站風向圖

Wind Speed in Pei-Miao Seas of TPX0 at 2015

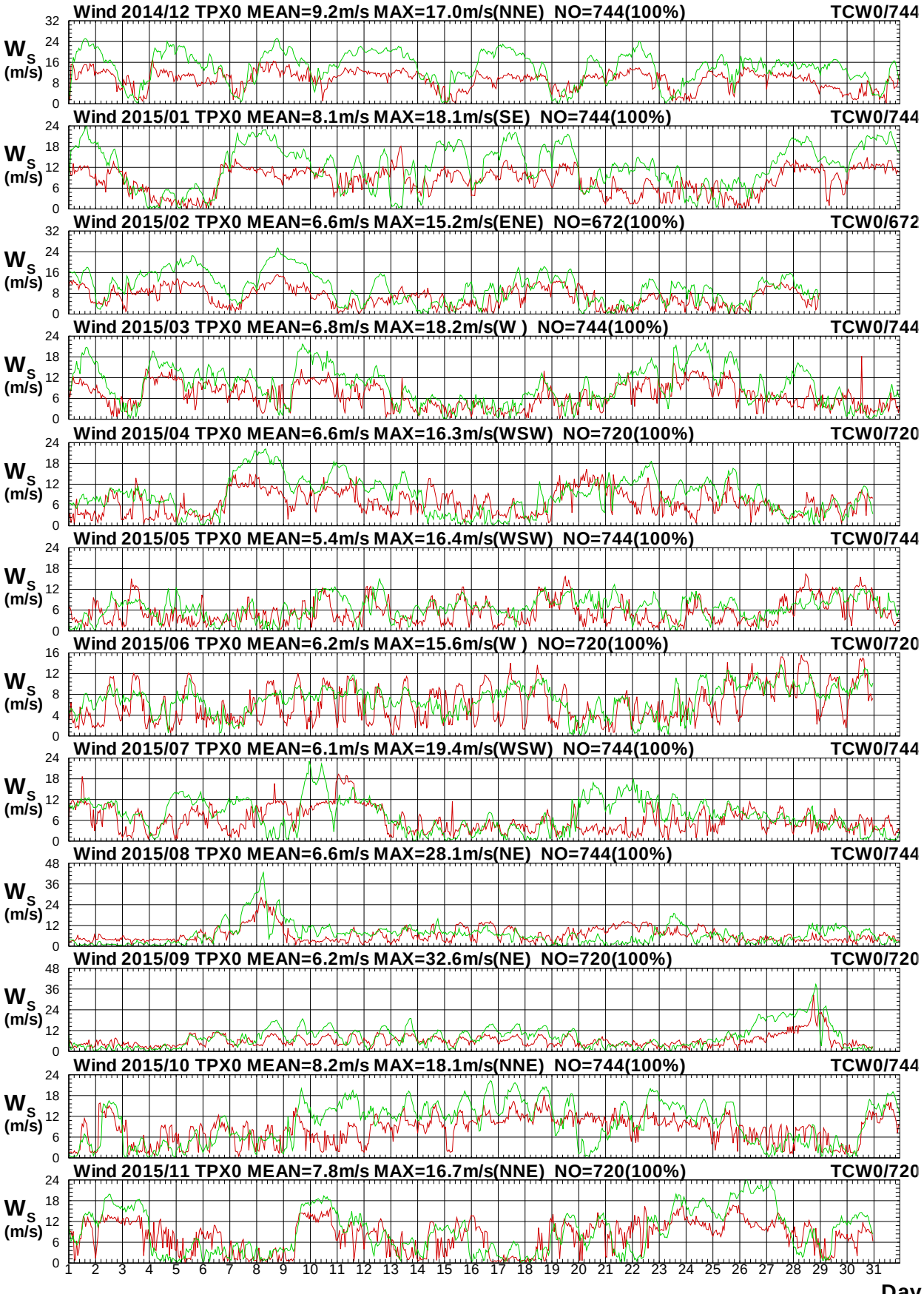

圖1.17a　2015年每月北苗海域 X 站與中雲海域 W 站風速圖

W14CTPX0.1HA W14CTCW0.1H0 W151TPX0.1HA W151TCW0.1H0 W152TPX0.1HA W152TCW0.1H0
W153TPX0.1HA W153TCW0.1H0 W154TPX0.1HA W154TCW0.1H0 W155TPX0.1HA W155TCW0.1H0

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Wind Direction in Pei-Miao Seas of TPX0 at 2015

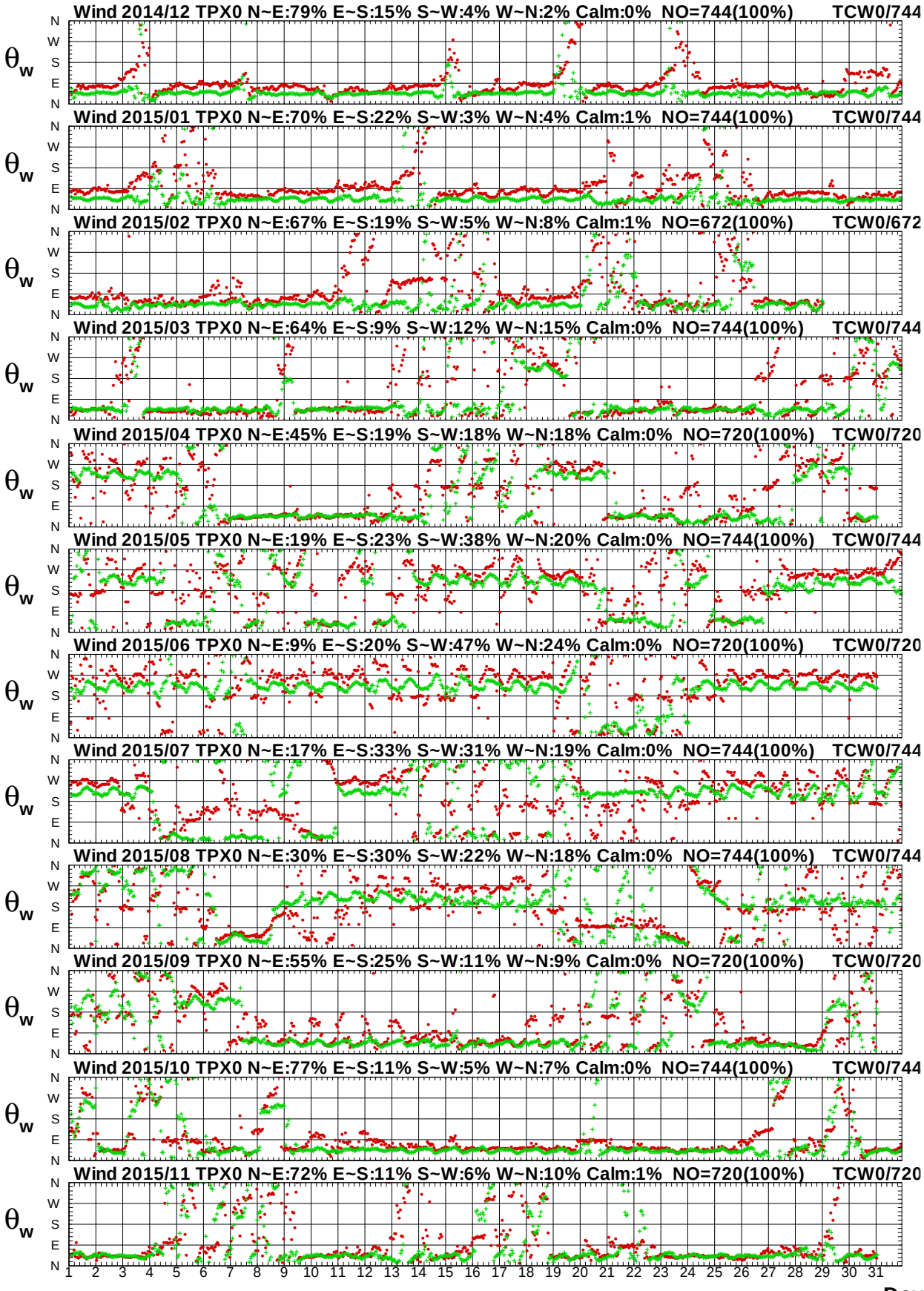

圖1.17b　2015年每月北苗海域 X 站與中雲海域 W 站風向圖

Wind Speed in Pei-Miao Seas of TPX0 at 2015

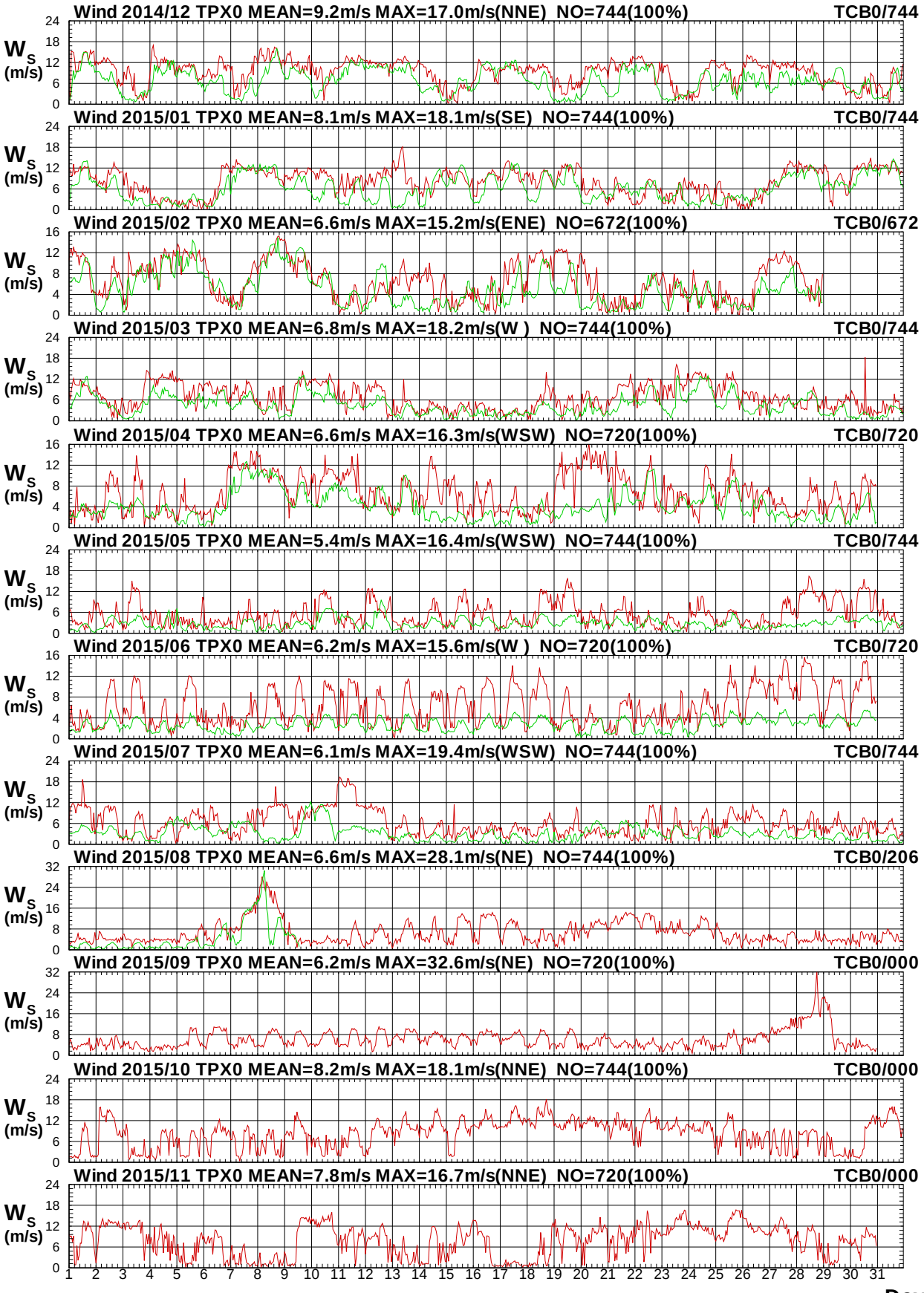

圖1.18a　2015年每月北苗海域 X 站與中雲海域 B 站風速圖

W14CTPX0.1HA W14CTCB0.1H0 W151TPX0.1HA W151TCB0.1H0 W152TPX0.1HA W152TCB0.1H0
W153TPX0.1HA W153TCB0.1H0 W154TPX0.1HA W154TCB0.1H0 W155TPX0.1HA W155TCB0.1H0

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Wind Direction in Pei-Miao Seas of TPX0 at 2015

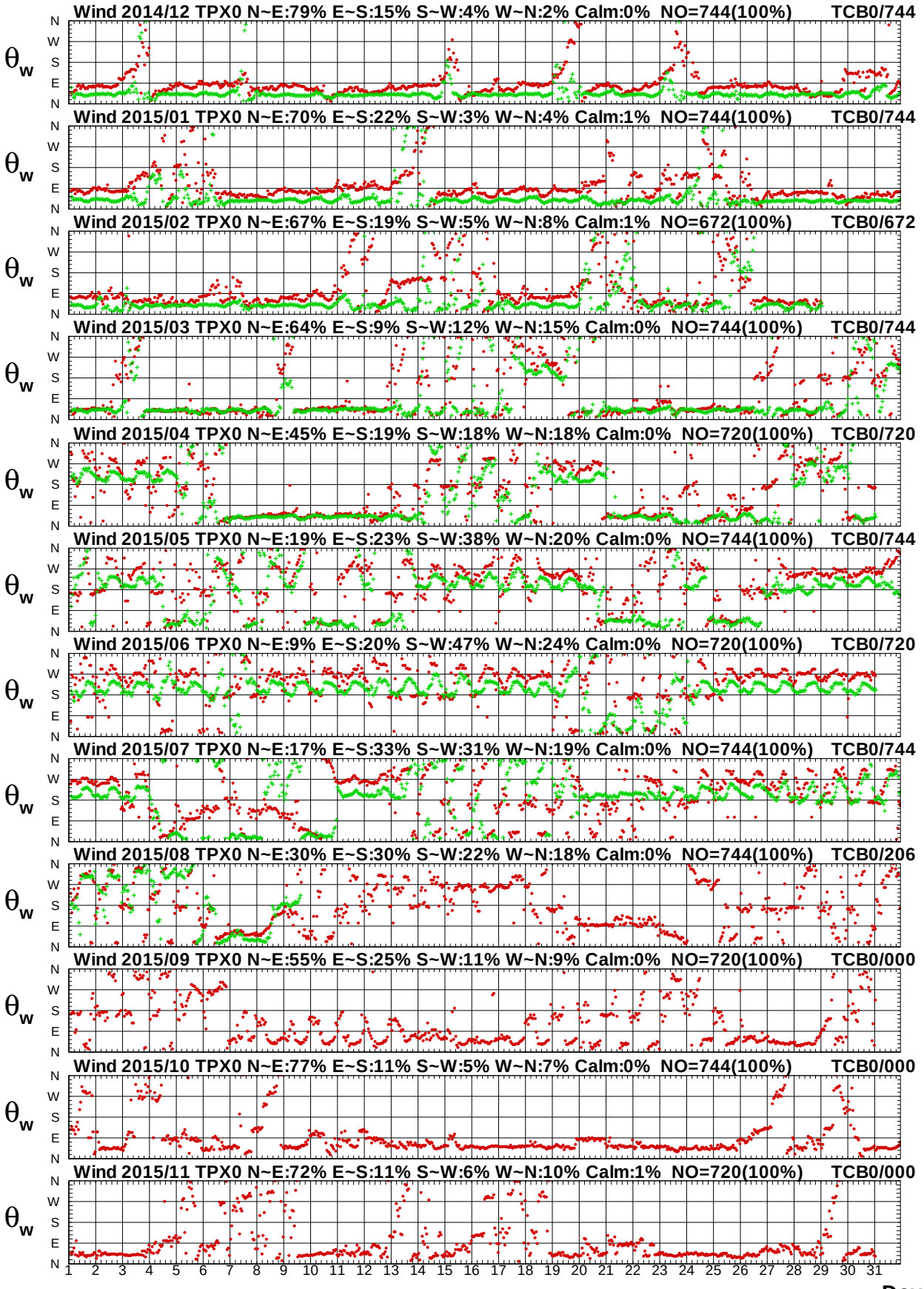

圖1.18b　2015年每月北苗海域 X 站與中雲海域 B 站風向圖

W14CTPX0.1HA W14CTCB0.1H0 W151TPX0.1HA W151TCB0.1H0 W152TPX0.1HA W152TCB0.1H0
W153TPX0.1HA W153TCB0.1H0 W154TPX0.1HA W154TCB0.1H0 W155TPX0.1HA W155TCB0.1H0

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Wind Speed in Pei-Miao Seas of TPX0 at 2015

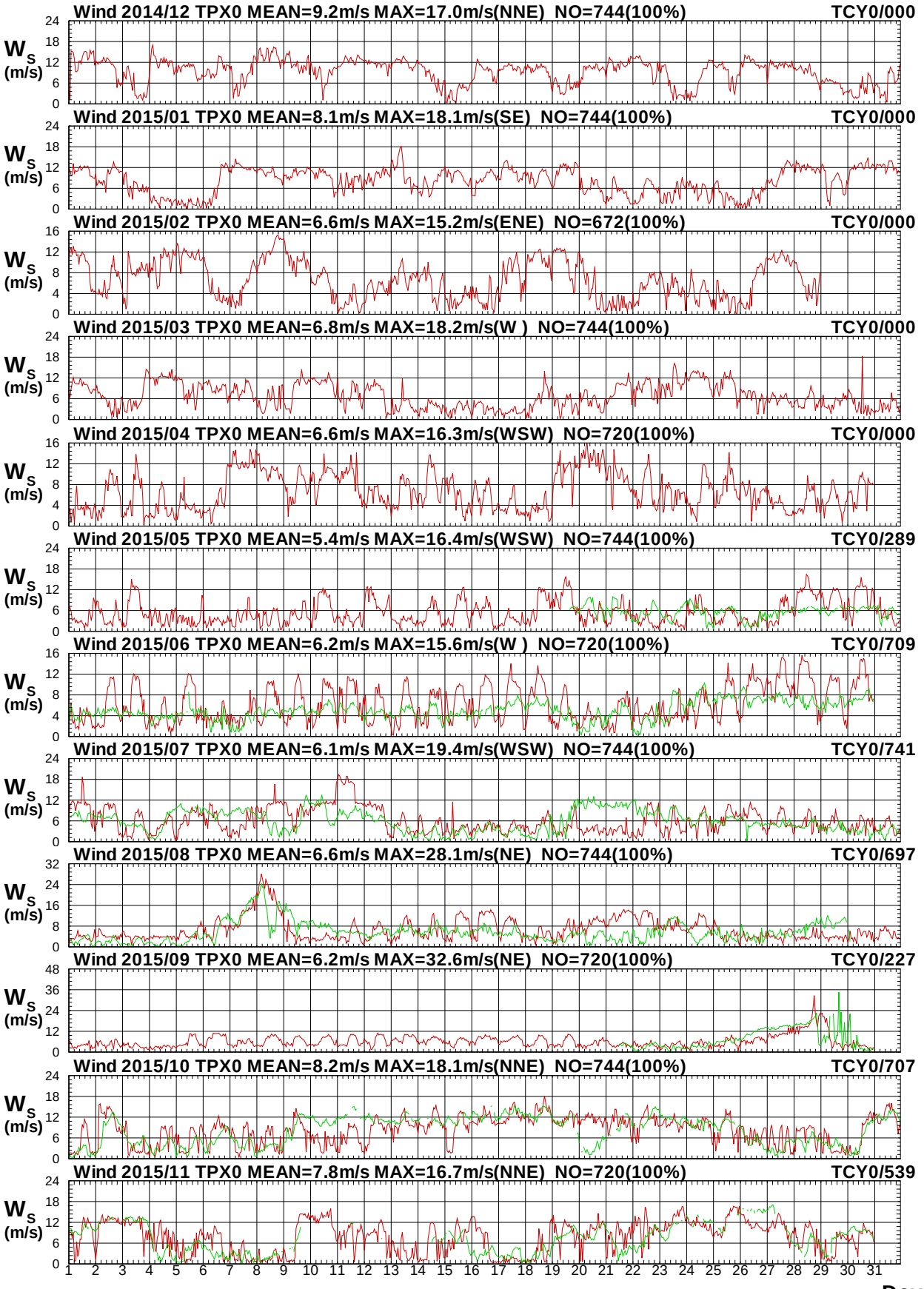

圖1.19a　2015年每月北苗海域 X 站與中雲海域 Y 站風速圖

W14CTPX0.1HA W14CTCY0.1H0 W151TPX0.1HA W151TCY0.1H0 W152TPX0.1HA W152TCY0.1H0
W153TPX0.1HA W153TCY0.1H0 W154TPX0.1HA W154TCY0.1H0 W155TPX0.1HA W155TCY0.1H0

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Wind Direction in Pei-Miao Seas of TPX0 at 2015

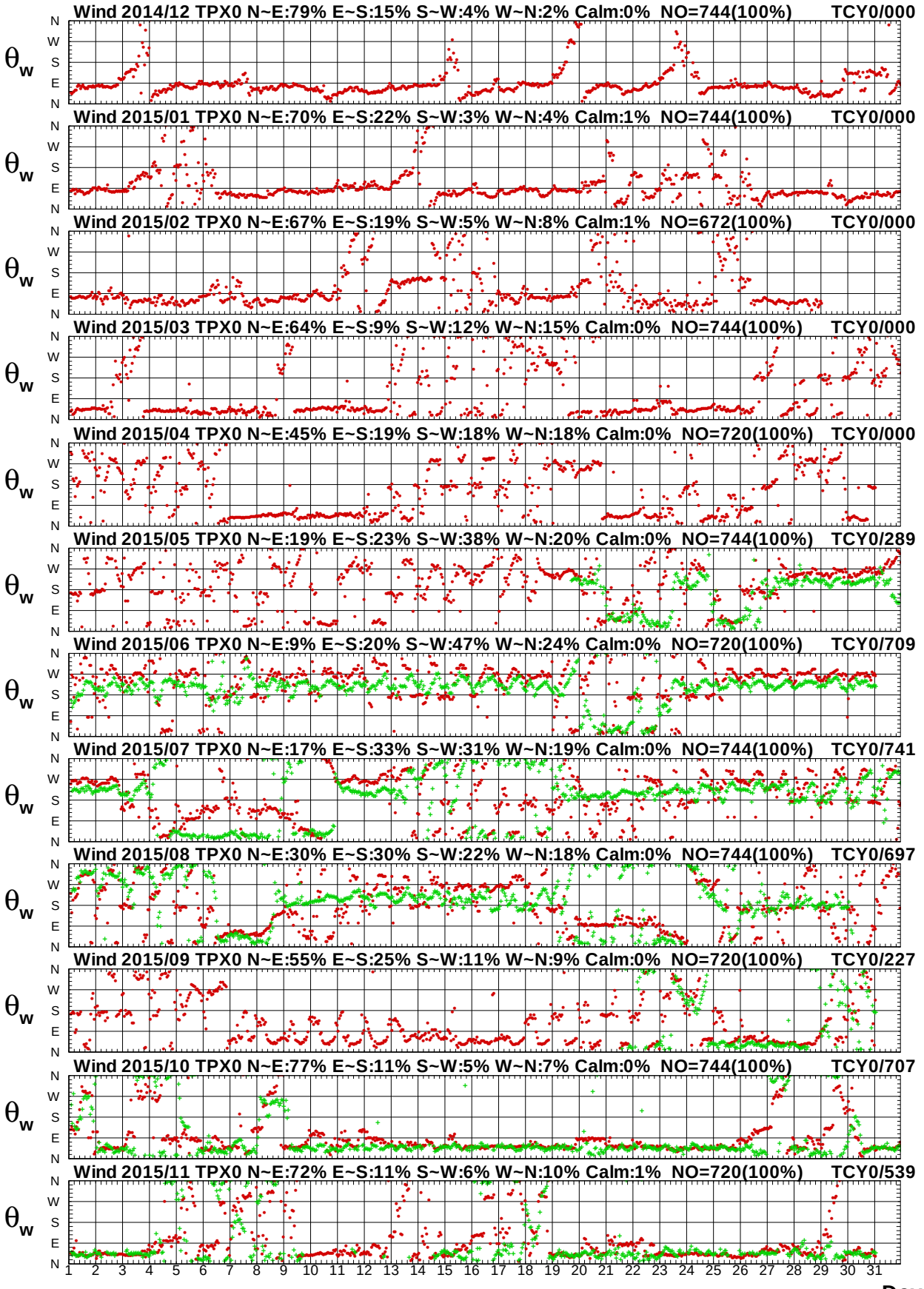

圖1.19b　2015年每月北苗海域 X 站與中雲海域 Y 站風向圖

Wind Speed in Pei-Miao Seas of TPX0 at 2015

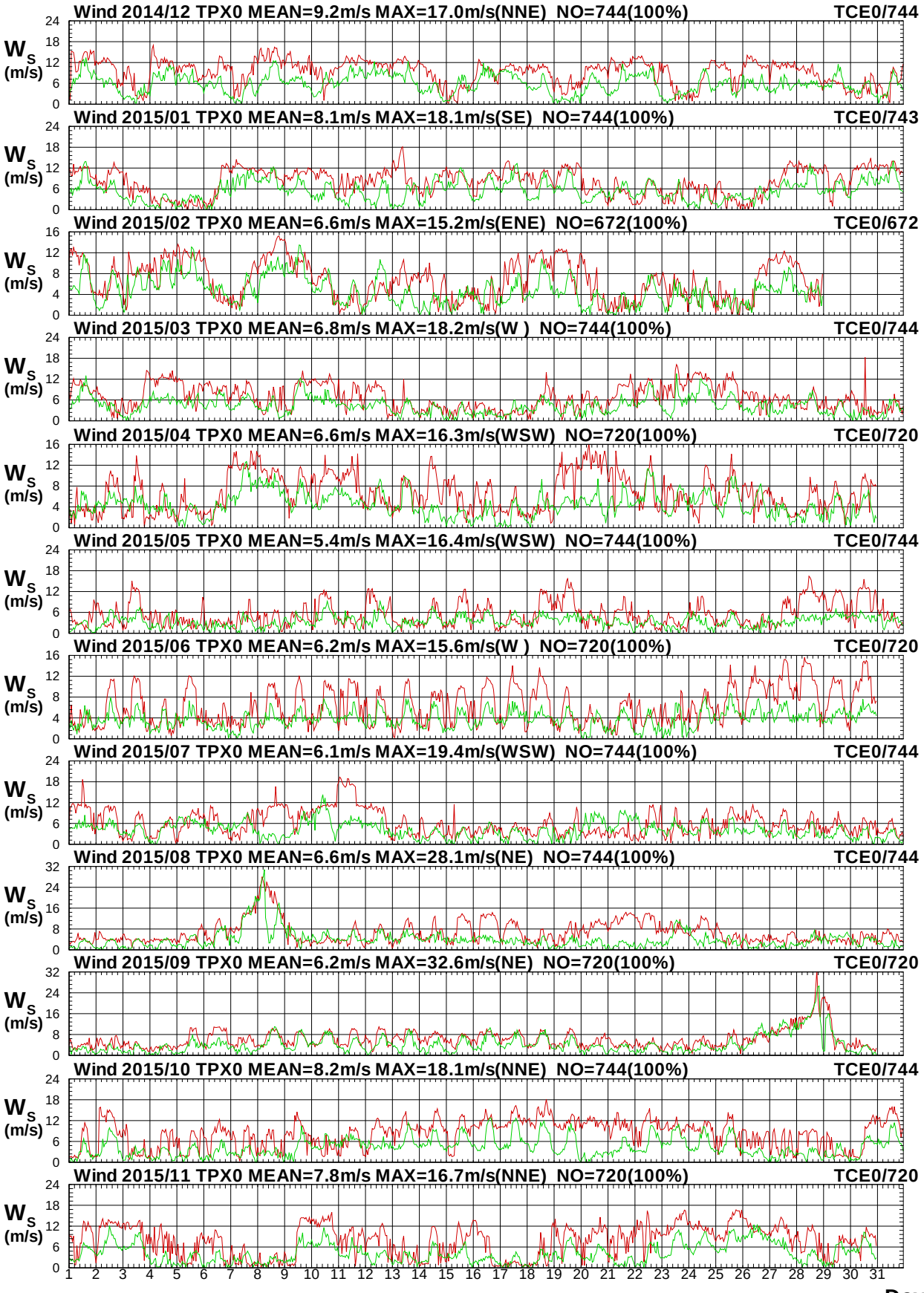

圖 1.20a　2015年每月北苗海域 X 站與中雲海域 E 站風速圖

W14CTPX0.1HA W14CTCE0.1H0 W151TPX0.1HA W151TCE0.1H0 W152TPX0.1HA W152TCE0.1H0
W153TPX0.1HA W153TCE0.1H0 W154TPX0.1HA W154TCE0.1H0 W155TPX0.1HA W155TCE0.1H0

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Wind Direction in Pei-Miao Seas of TPX0 at 2015

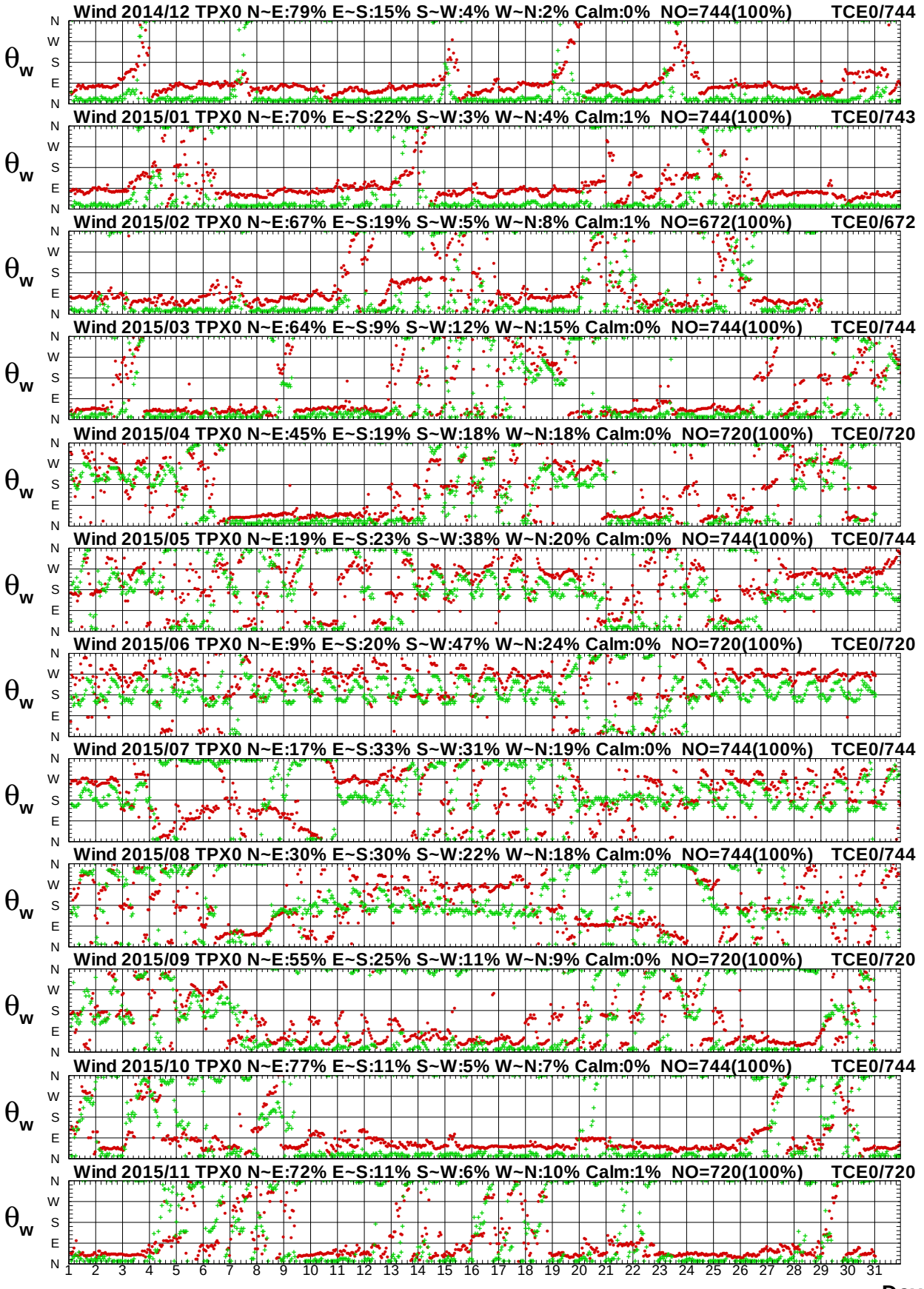

圖1.20b　2015年每月北苗海域 X 站與中雲海域 E 站風向圖

W14CTPX0.1HA W14CTCE0.1H0 W151TPX0.1HA W151TCE0.1H0 W152TPX0.1HA W152TCE0.1H0
W153TPX0.1HA W153TCE0.1H0 W154TPX0.1HA W154TCE0.1H0 W155TPX0.1HA W155TCE0.1H0

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Wind Speed in Pei-Miao Seas of TPX0 at 2015

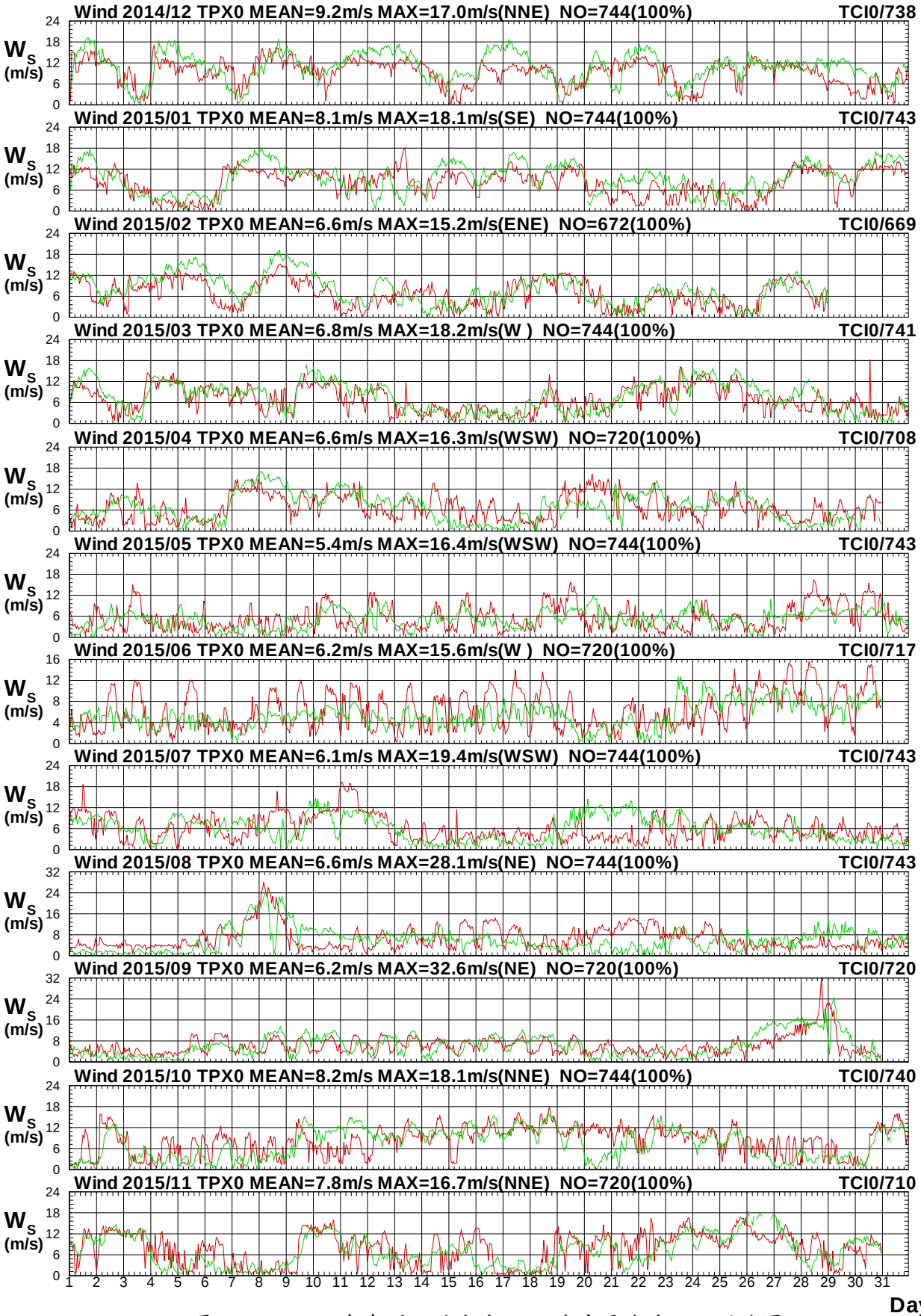

圖 1.21a　2015年每月北苗海域 X 站與中雲海域 I 站風速圖

Wind Direction in Pei-Miao Seas of TPX0 at 2015

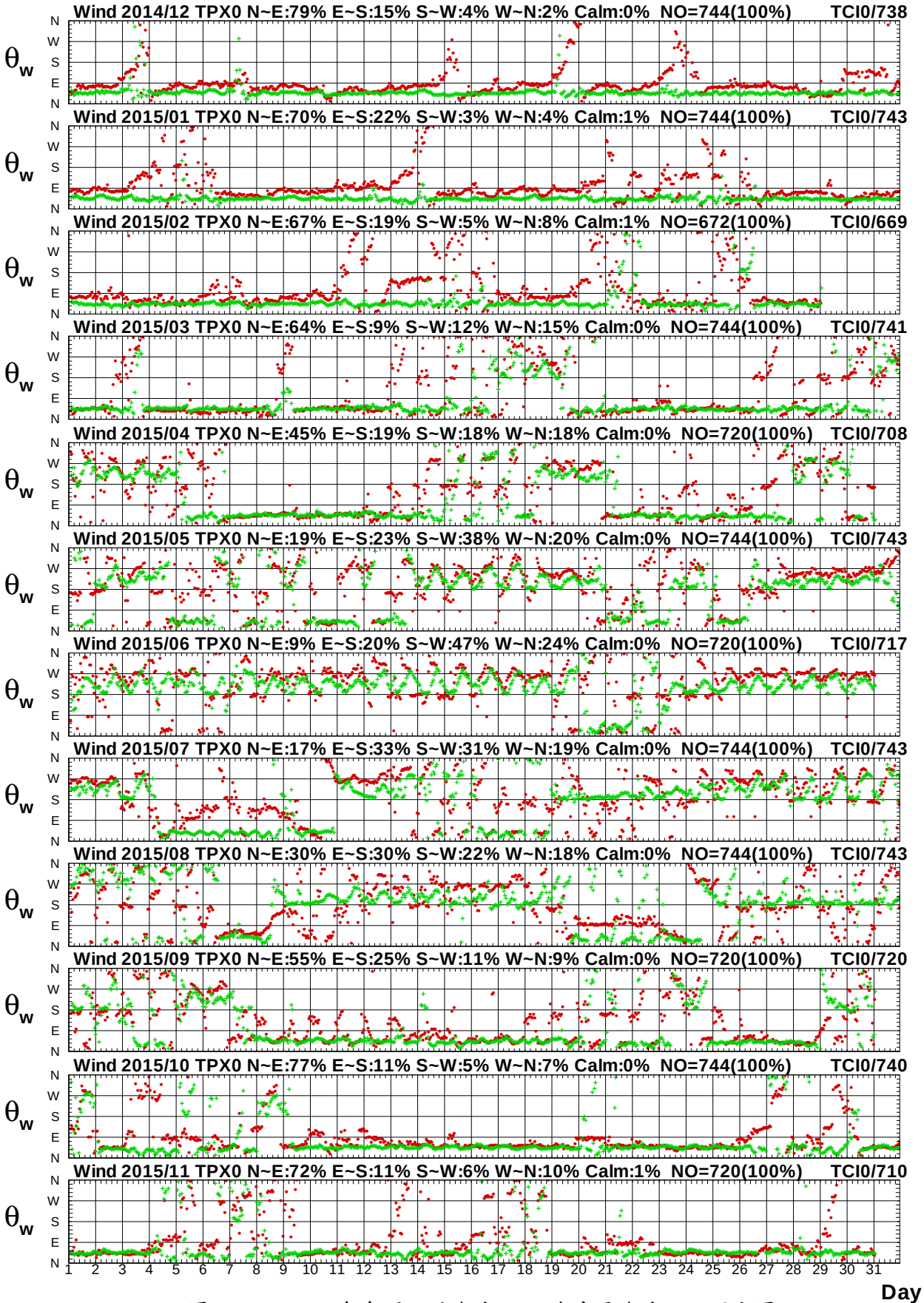

圖 1.21b　2015年每月北苗海域 X 站與中雲海域 I 站風向圖

第二章　2015 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 2，2010 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) 及**測站 R(**富貴角外海浮標站)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 2。

本風力年報以取經檢核或修補後之 **W 站**資料作為**主要觀測站**，2015 年主要觀測站修補前(後)每月觀測之風資料記錄期間統計表，如表 2.1a，2015 年風力**次要觀測站**資料(未補餘)記錄統計表，如表 2.1b，**主要觀測站修補前後**每月風力歷線比較圖，如圖 2.1，**主要觀測站**與**次要觀測站**(或**其他觀測站**)每月風力歷線比較圖，如圖 2.2 以後。

表 2 北端海域觀測風力資料蒐集概況表(統計時間至 2015 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	2002/06-2015/11(觀測中)	港研中心	基隆港區
E	25°07'58"N	121°44'26"E	1999/01-2015/11(觀測中)	中央氣象局	基隆
F			2015/01-2015/11(觀測中)	中央氣象局	基隆
Y	25°05'54"N	121°55'22"E	1998/09-2015/11(觀測中)	中央氣象局	龍洞浮標站
Z	25°09'17"N	121°47'06"E	2012/05-2015/11(觀測中)	臺灣海洋大學	基隆浮標站
R	25°18'15"N	121°32'05"E	2014/12-2015/11(觀測中)	中央氣象局	富貴角浮標
I	25°37'46"N	122°04'17"E	2014/08-2015/11(觀測中)	中央氣象局	彭佳嶼
J			2015/01-2015/11(觀測中)	中央氣象局	龍洞

北端海域

圖 2 北端海域風力觀測站位置示意圖

表2.1a 2015年每月北端海域修補前各測站觀測風力資料紀錄統計表

年/月 港區	北端海域	北端海域	北端海域	北端海域	北端海域	北端海域	北端海域	北端海域
測站	W	Y	Z	R	E	I	J	F
2014/12月	744 (100%)	741 (99.6%)	742 (99.7%)	*	744 (100%)	744 (100%)	*	*
2015/ 1月	744 (100%)	735 (98.8%)	737 (99.1%)	*	743 (99.9%)	743 (99.9%)	518 (69.6%)	495 (66.5%)
2015/ 2月	672 (100%)	670 (99.7%)	667 (99.3%)	*	672 (100%)	672 (100%)	*	*
2015/ 3月	744 (100%)	744 (100%)	744 (100%)	*	744 (100%)	744 (100%)	130 (17.5%)	94 (12.6%)
2015/ 4月	720 (100%)	720 (100%)	720 (100%)	*	720 (100%)	720 (100%)	415 (57.6%)	379 (52.6%)
2015/ 5月	744 (100%)	744 (100%)	743 (99.9%)	*	744 (100%)	744 (100%)	240 (32.3%)	243 (32.7%)
2015/ 6月	720 (100%)	718 (99.7%)	719 (99.9%)	*	720 (100%)	720 (100%)	494 (68.6%)	402 (55.8%)
2015/ 7月	744 (100%)	744 (100%)	744 (100%)	55 (7.4%)	744 (100%)	744 (100%)	403 (54.2%)	307 (41.3%)
2015/ 8月	744 (100%)	175 (23.5%)	617 (82.9%)	741 (99.6%)	744 (100%)	744 (100%)	549 (73.8%)	557 (74.9%)
2015/ 9月	720 (100%)	*	*	715 (99.3%)	720 (100%)	720 (100%)	623 (86.5%)	588 (81.7%)
2015/10月	744 (100%)	108 (14.5%)	591 (79.4%)	743 (99.9%)	744 (100%)	744 (100%)	381 (51.2%)	377 (50.7%)
2015/11月	719 (99.9%)	720 (100%)	711 (98.8%)	626 (86.9%)	720 (100%)	720 (100%)	643 (89.3%)	558 (77.5%)
2015/冬季	2160 (100%)	2146 (99.4%)	2146 (99.4%)	*	2159 (100.0%)	2159 (100.0%)	518 (24.0%)	495 (22.9%)
2015/春季	2208 (100%)	2208 (100%)	2207 (100.0%)	*	2208 (100%)	2208 (100%)	785 (35.6%)	716 (32.4%)
2015/夏季	2208 (100%)	1637 (74.1%)	2080 (94.2%)	796 (36.1%)	2208 (100%)	2208 (100%)	1446 (65.5%)	1266 (57.3%)
2015/秋季	2183 (100.0%)	828 (37.9%)	1302 (59.6%)	2084 (95.4%)	2184 (100%)	2184 (100%)	1647 (75.4%)	1523 (69.7%)
2015/整年	8759 (100.0%)	6819 (77.8%)	7735 (88.3%)	2880 (32.9%)	8759 (100.0%)	8759 (100.0%)	4396 (50.2%)	4000 (45.7%)
起始年月	2014/12	2014/12	2014/12	2015/07	2014/12	2014/12	2015/01	2015/01
結束年月	2015/11	2015/11	2015/11	2015/11	2015/11	2015/11	2015/11	2015/11

表2.1b 2015年每月北端海域修補後各測站風力資料統計表

年/月 港區	北端海域		北端海域		北端海域		北端海域		北端海域		北端海域		北端海域	北端海域
測站	W		Y		Z		R		E		I		J	F
2014/12月	744	(100%)	744	(100%)	744	(100%)	744	(100%)	744	(100%)	744	(100%)	*	*
2015/ 1月	744	(100%)	744	(100%)	744	(100%)	744	(100%)	744	(100%)	744	(100%)	*	*
2015/ 2月	672	(100%)	672	(100%)	672	(100%)	672	(100%)	672	(100%)	672	(100%)	*	*
2015/ 3月	744	(100%)	744	(100%)	744	(100%)	744	(100%)	744	(100%)	744	(100%)	*	*
2015/ 4月	720	(100%)	720	(100%)	720	(100%)	720	(100%)	720	(100%)	720	(100%)	*	*
2015/ 5月	744	(100%)	744	(100%)	744	(100%)	744	(100%)	744	(100%)	744	(100%)	*	*
2015/ 6月	720	(100%)	720	(100%)	720	(100%)	720	(100%)	720	(100%)	720	(100%)	*	*
2015/ 7月	744	(100%)	744	(100%)	744	(100%)	744	(100%)	744	(100%)	744	(100%)	*	*
2015/ 8月	744	(100%)	744	(100%)	744	(100%)	744	(100%)	744	(100%)	744	(100%)	*	*
2015/ 9月	720	(100%)	720	(100%)	720	(100%)	720	(100%)	720	(100%)	720	(100%)	*	*
2015/10月	744	(100%)	744	(100%)	744	(100%)	744	(100%)	744	(100%)	744	(100%)	*	*
2015/11月	720	(100%)	720	(100%)	720	(100%)	720	(100%)	720	(100%)	720	(100%)	*	*
2015/冬季	2160	(100%)	2160	(100%)	2160	(100%)	2160	(100%)	2160	(100%)	2160	(100%)	*	*
2015/春季	2208	(100%)	2208	(100%)	2208	(100%)	2208	(100%)	2208	(100%)	2208	(100%)	*	*
2015/夏季	2208	(100%)	2208	(100%)	2208	(100%)	2208	(100%)	2208	(100%)	2208	(100%)	*	*
2015/秋季	2184	(100%)	2184	(100%)	2184	(100%)	2184	(100%)	2184	(100%)	2184	(100%)	*	*
2015/整年	8760	(100%)	8760	(100%)	8760	(100%)	8760	(100%)	8760	(100%)	8760	(100%)	*	*
起始年月	2014/12		2014/12		2014/12		2014/12		2014/12		2014/12		*	*
結束年月	2015/11		2015/11		2015/11		2015/11		2015/11		2015/11		*	*

Wind Speed in North Seas of KLW0 at 2015

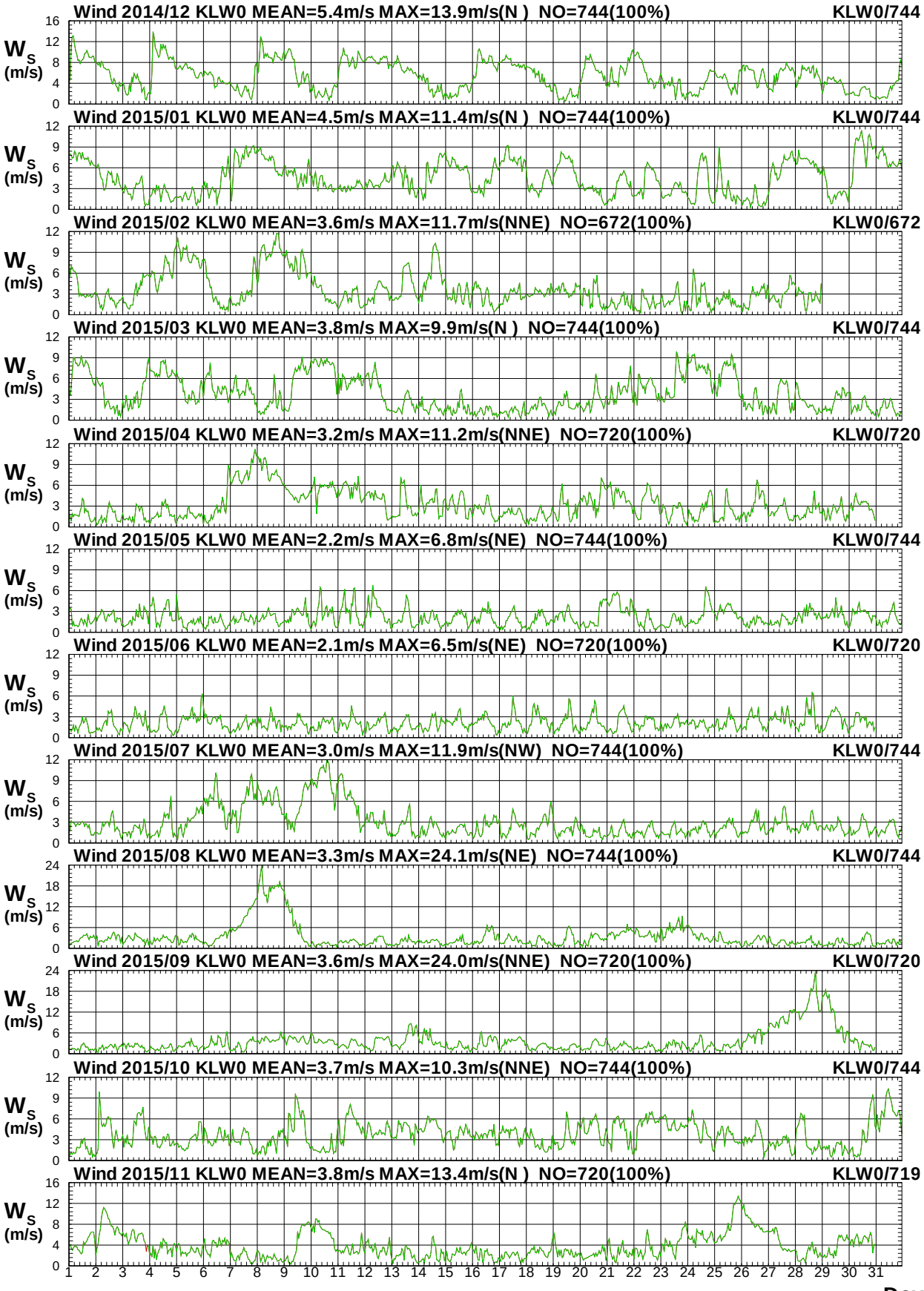

圖 2.1a　2015年每月北端海域 W 站修補前後之風速比較圖

Wind Direction in North Seas of KLW0 at 2015

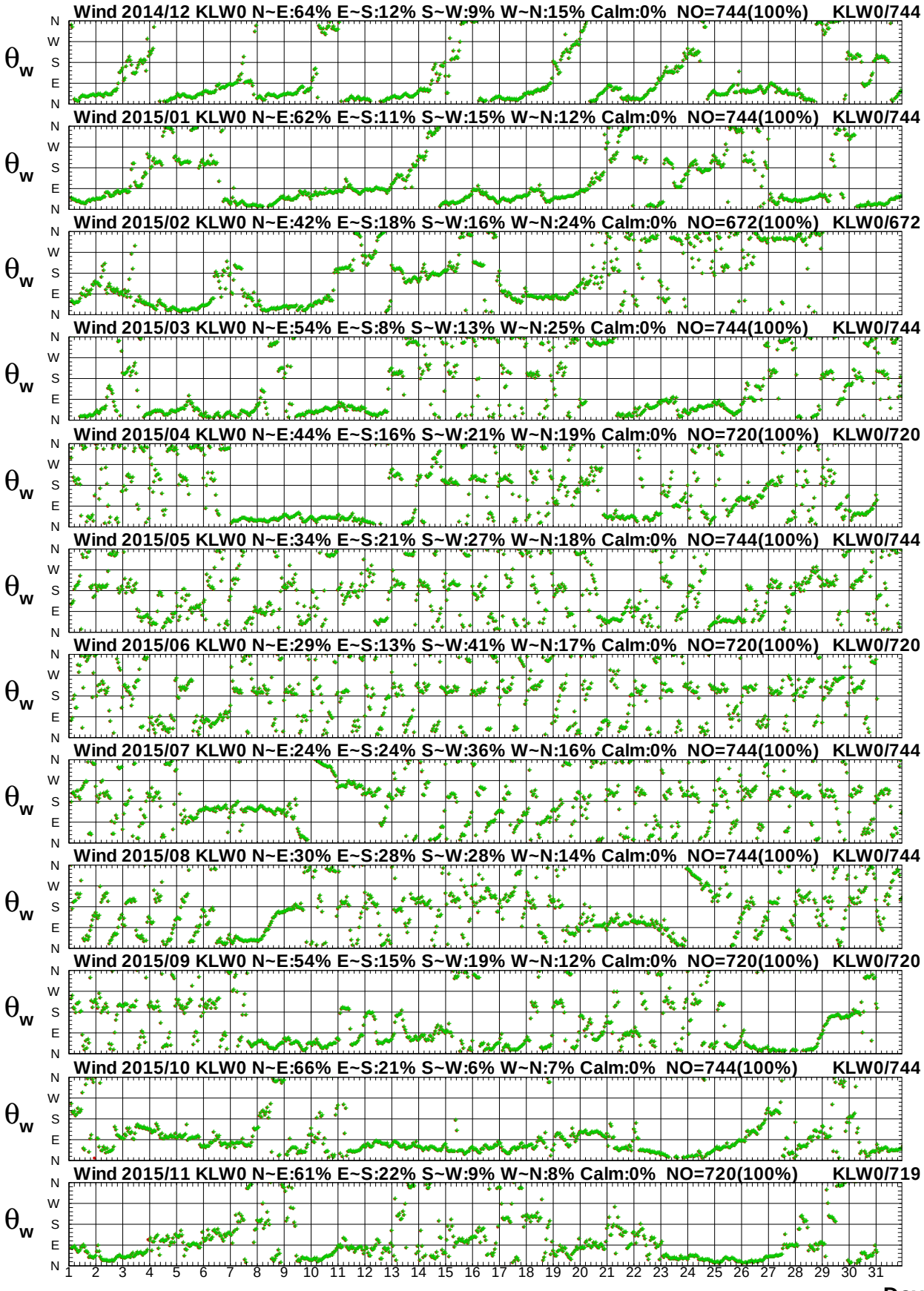

圖 2.1b　2015年每月北端海域 W 站修補前後之風向比較圖

Wind Speed in North Seas of KLW0 at 2015

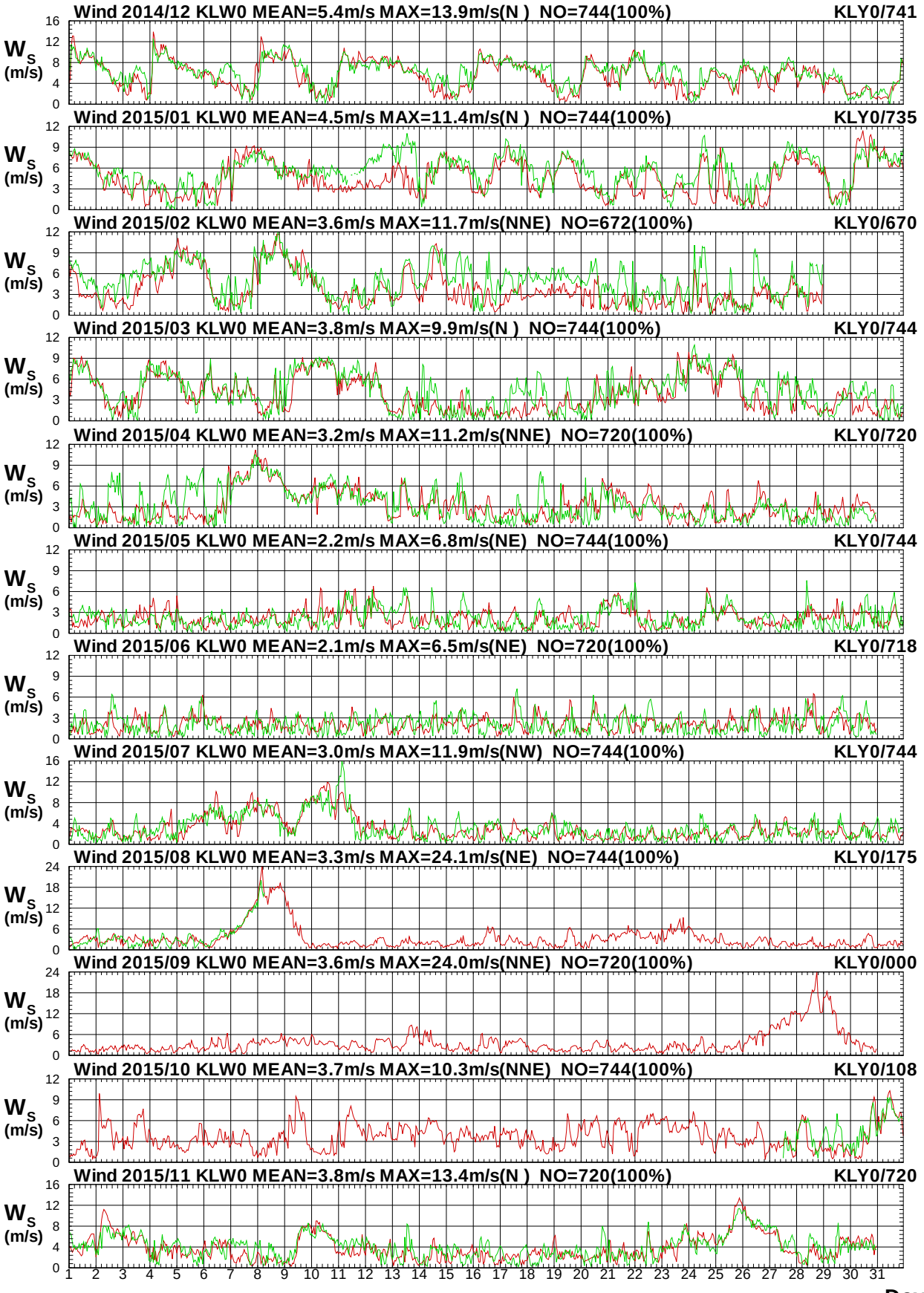

圖 2.2a　2015年每月北端海域 W 站與 Y 站風速比較圖

W14CKLW0.1HA W14CKLY0.1H0 W151KLW0.1HA W151KLY0.1H0 W152KLW0.1HA W152KLY0.1H0
W153KLW0.1HA W153KLY0.1H0 W154KLW0.1HA W154KLY0.1H0 W155KLW0.1HA W155KLY0.1H0

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Wind Direction in North Seas of KLW0 at 2015

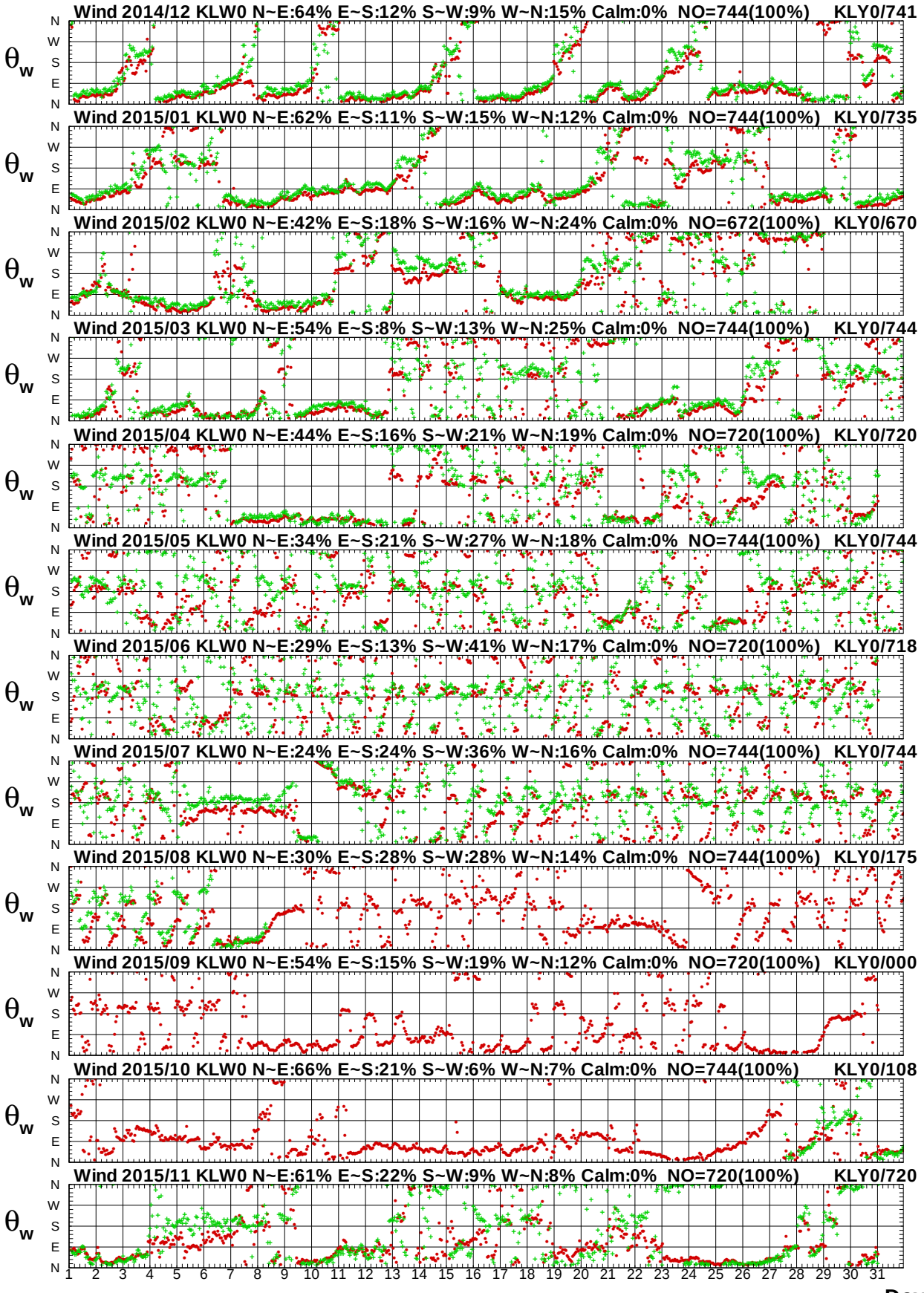

圖 2.2b　2015年每月北端海域 W 站與 Y 站風向比較圖

Wind Speed in North Seas of KLW0 at 2015

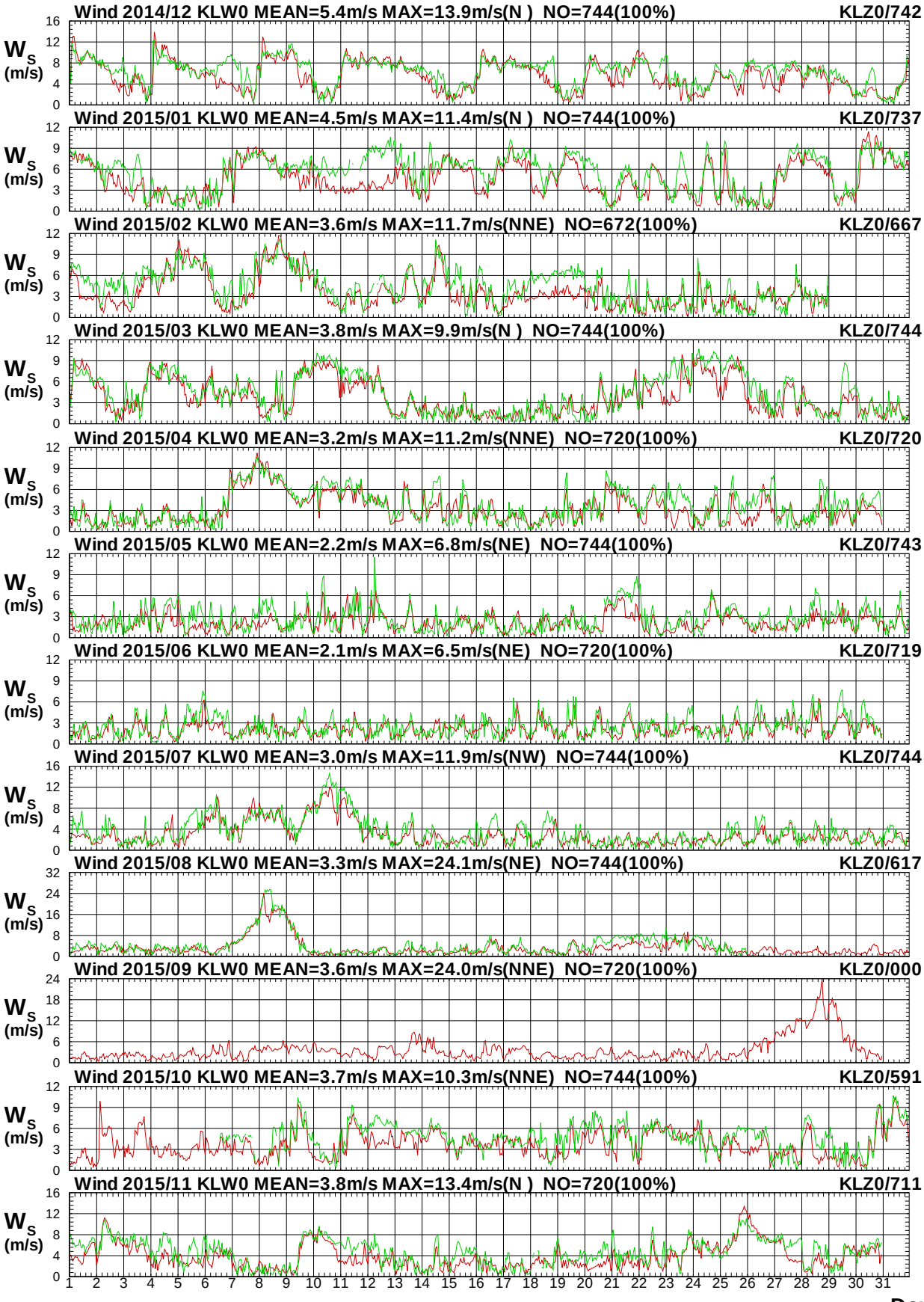

圖 2.3a　2015年每月北端海域 W 站與 Z 站風速比較圖

W14CKLW0.1HA W14CKLZ0.1H0 W151KLW0.1HA W151KLZ0.1H0 W152KLW0.1HA W152KLZ0.1H0
W153KLW0.1HA W153KLZ0.1H0 W154KLW0.1HA W154KLZ0.1H0 W155KLW0.1HA W155KLZ0.1H0

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Wind Direction in North Seas of KLW0 at 2015

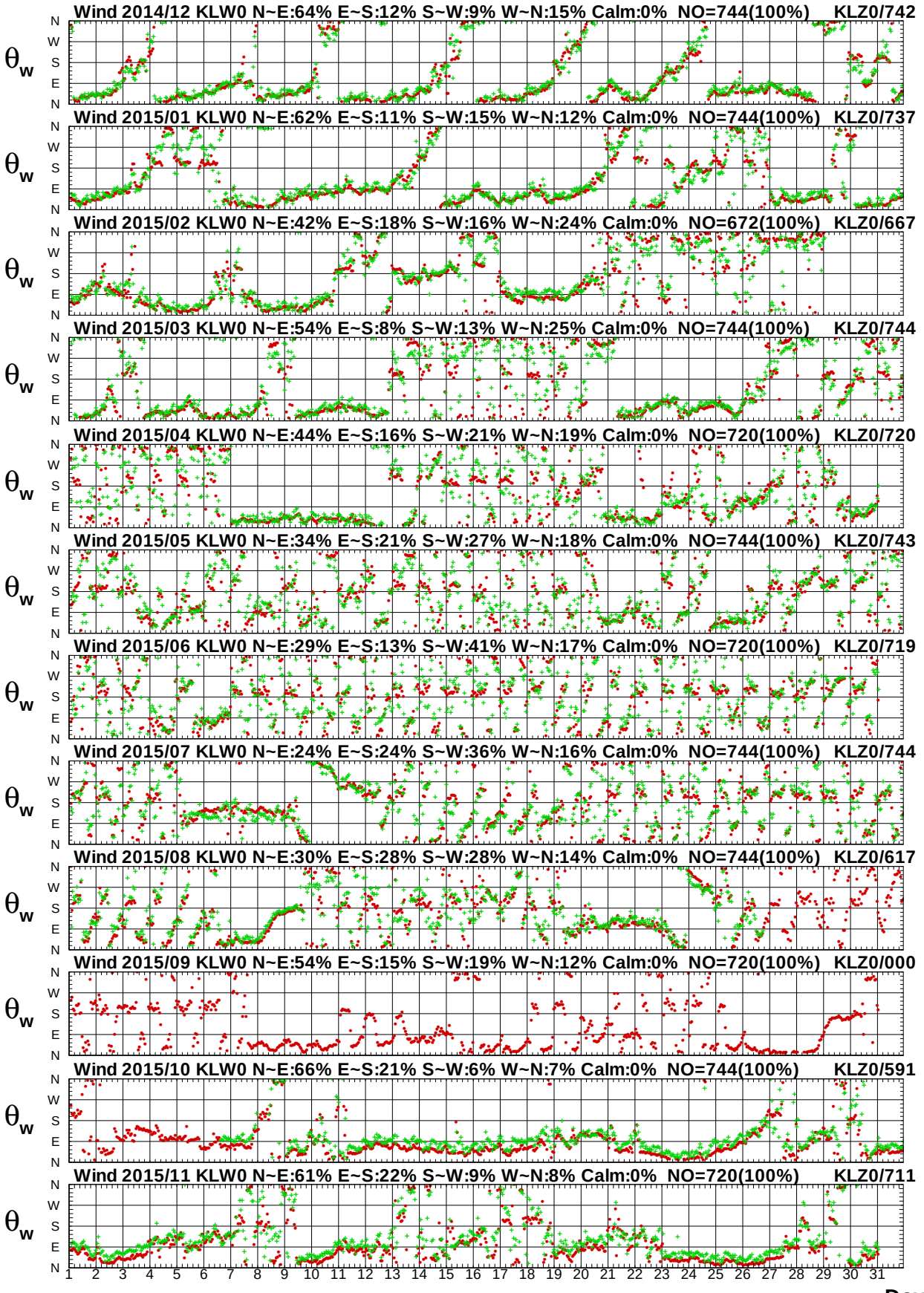

圖 2.3b　2015年每月北端海域 W 站與 Z 站風向比較圖

Wind Speed in North Seas of KLW0 at 2015

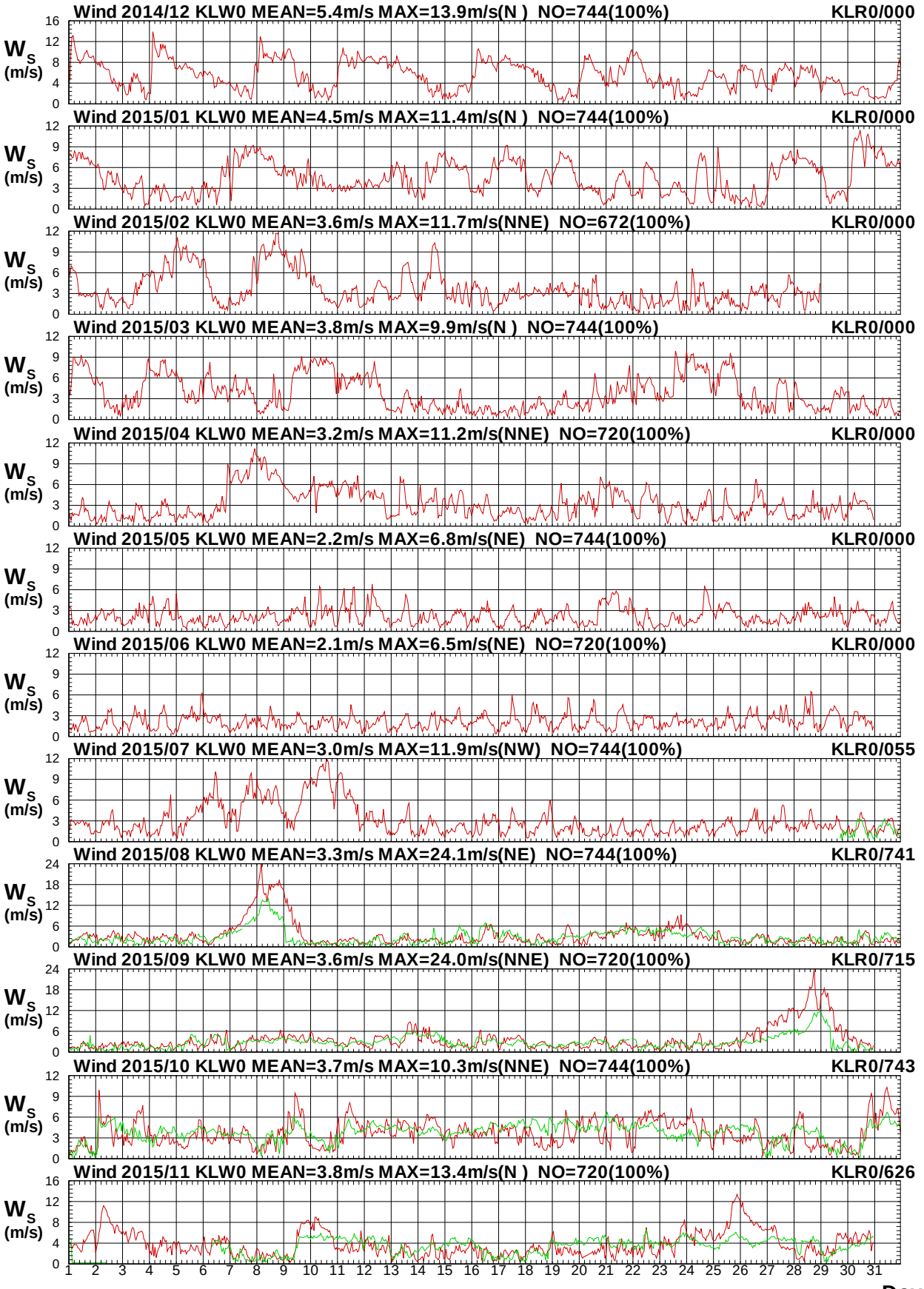

圖 2.4a　2015年每月北端海域 W 站與 R 站風速比較圖

W14CKLW0.1HA W14CKLR0.1H0 W151KLW0.1HA W151KLR0.1H0 W152KLW0.1HA W152KLR0.1H0
W153KLW0.1HA W153KLR0.1H0 W154KLW0.1HA W154KLR0.1H0 W155KLW0.1HA W155KLR0.1H0

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Wind Direction in North Seas of KLW0 at 2015

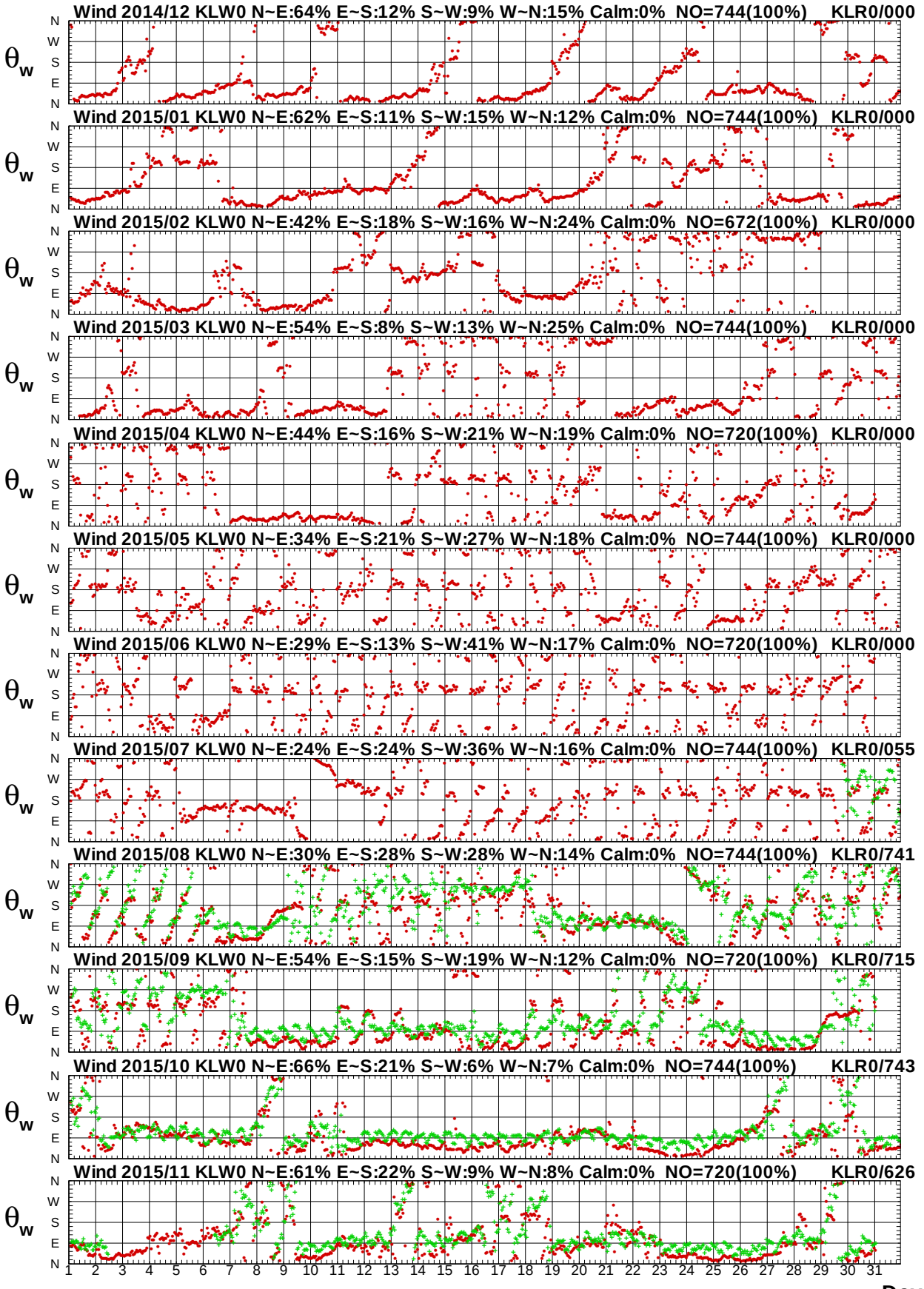

圖 2.4b　2015年每月北端海域 W 站與 R 站風向比較圖

Wind Speed in North Seas of KLW0 at 2015

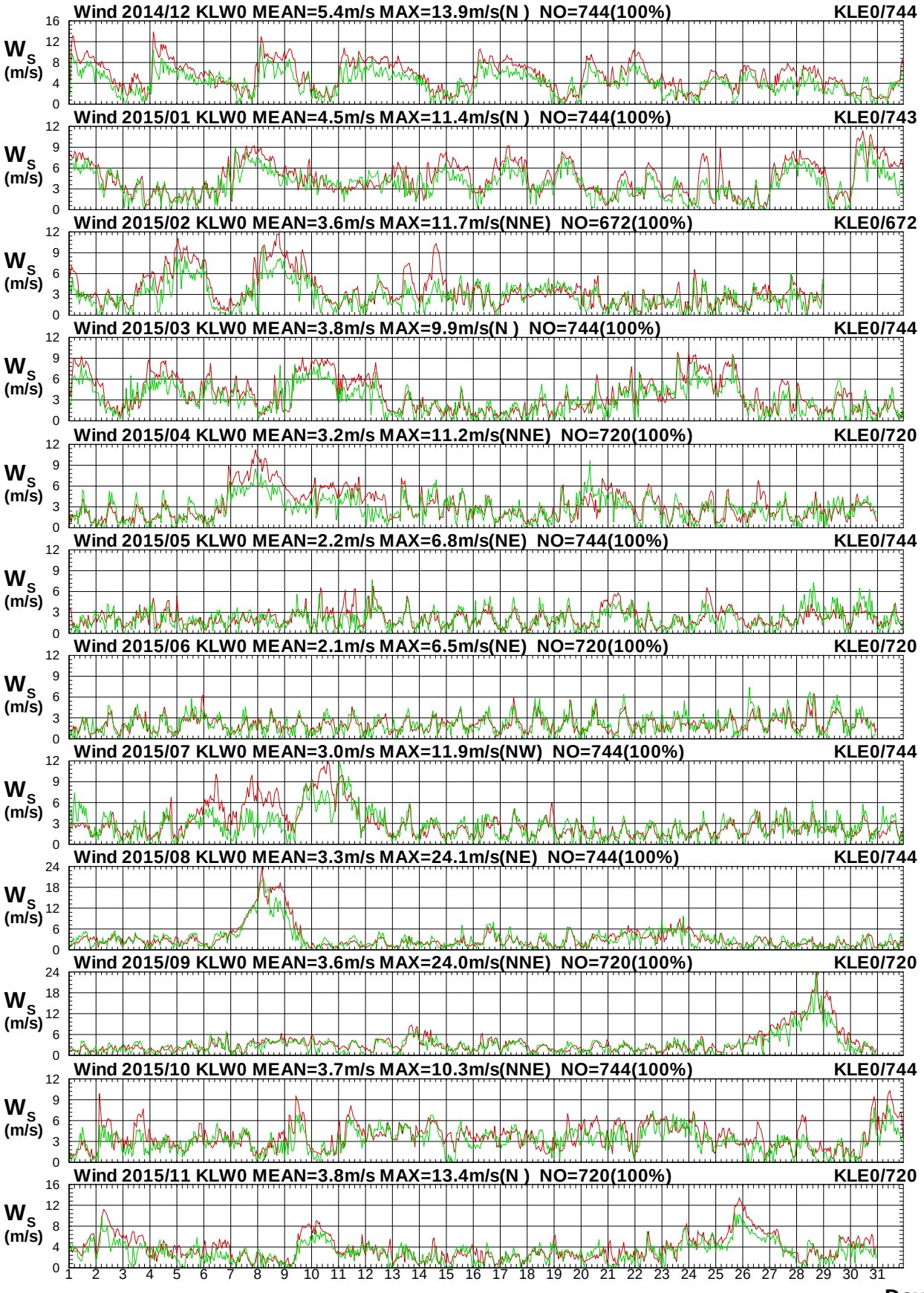

圖 2.5a　2015年每月北端海域 W 站與 E 站風速比較圖

W14CKLW0.1HA W14CKLE0.1H0 W151KLW0.1HA W151KLE0.1H0 W152KLW0.1HA W152KLE0.1H0
W153KLW0.1HA W153KLE0.1H0 W154KLW0.1HA W154KLE0.1H0 W155KLW0.1HA W155KLE0.1H0

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Wind Direction in North Seas of KLW0 at 2015

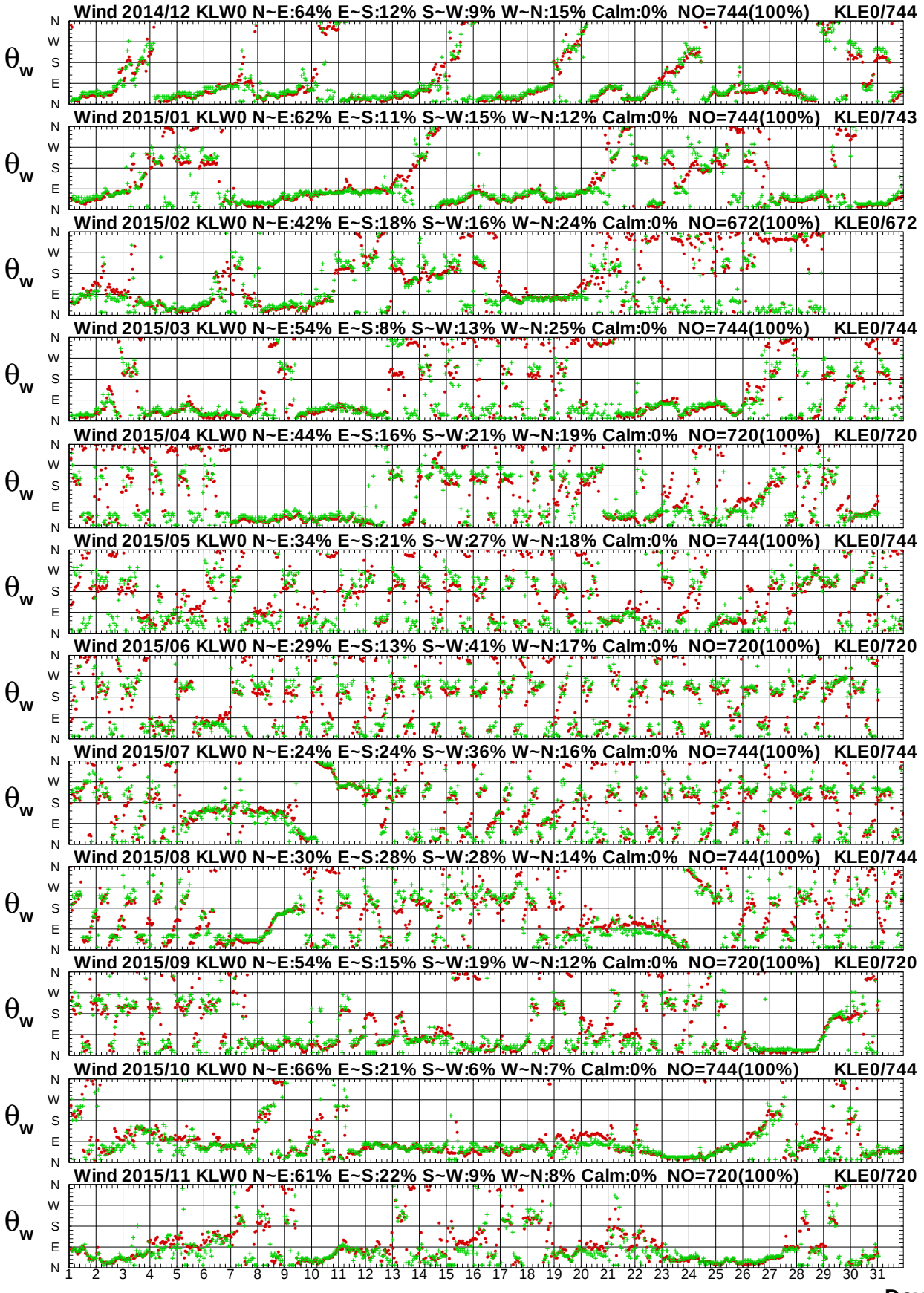

圖 2.5b　2015年每月北端海域 W 站與 E 站風向比較圖

Wind Speed in North Seas of KLW0 at 2015

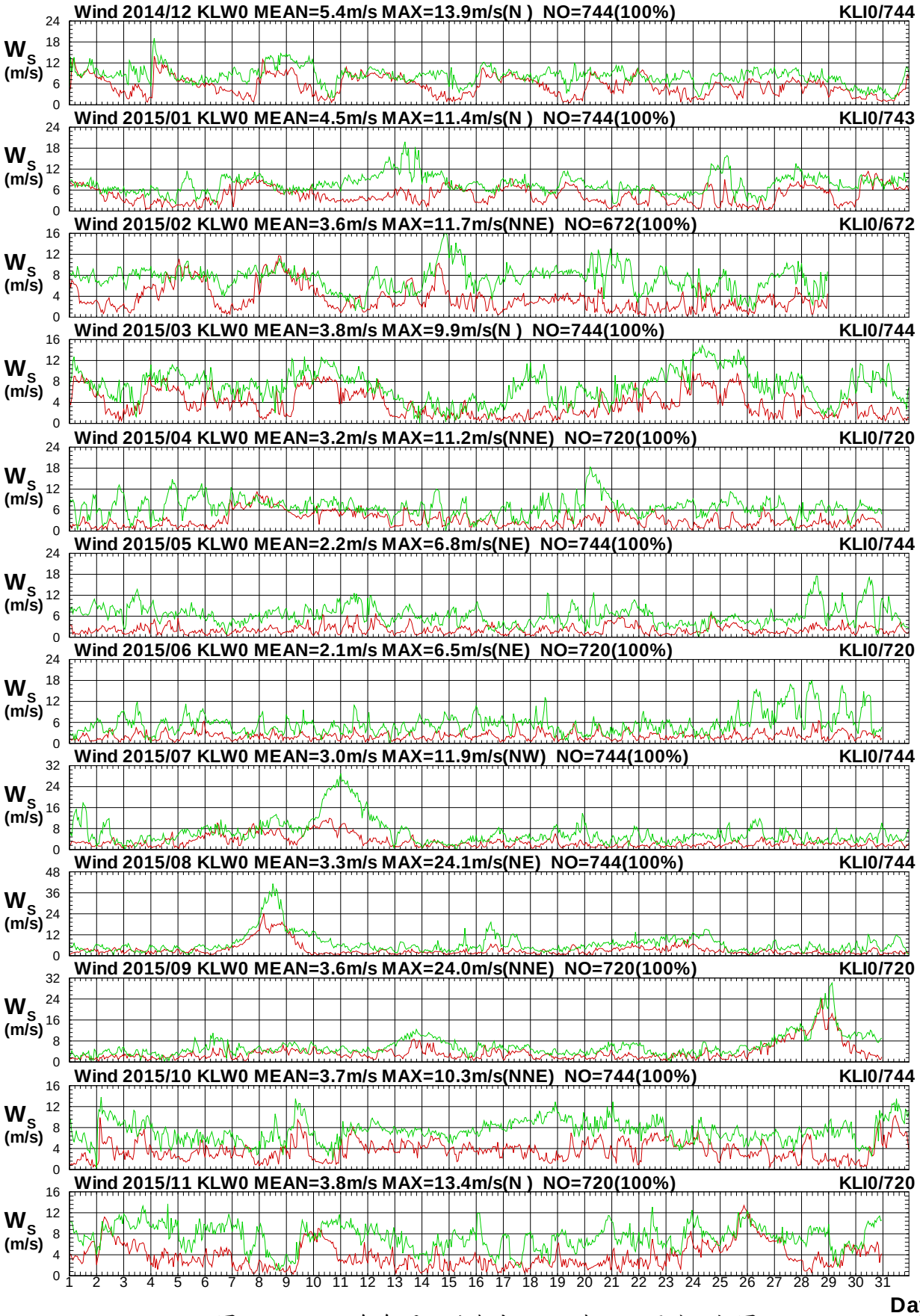

圖 2.6a　2015年每月北端海域 W 站與 I 站風速比較圖

W14CKLW0.1HA W14CKLI0.1H0 W151KLW0.1HA W151KLI0.1H0 W152KLW0.1HA W152KLI0.1H0
W153KLW0.1HA W153KLI0.1H0 W154KLW0.1HA W154KLI0.1H0 W155KLW0.1HA W155KLI0.1H0

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Wind Direction in North Seas of KLW0 at 2015

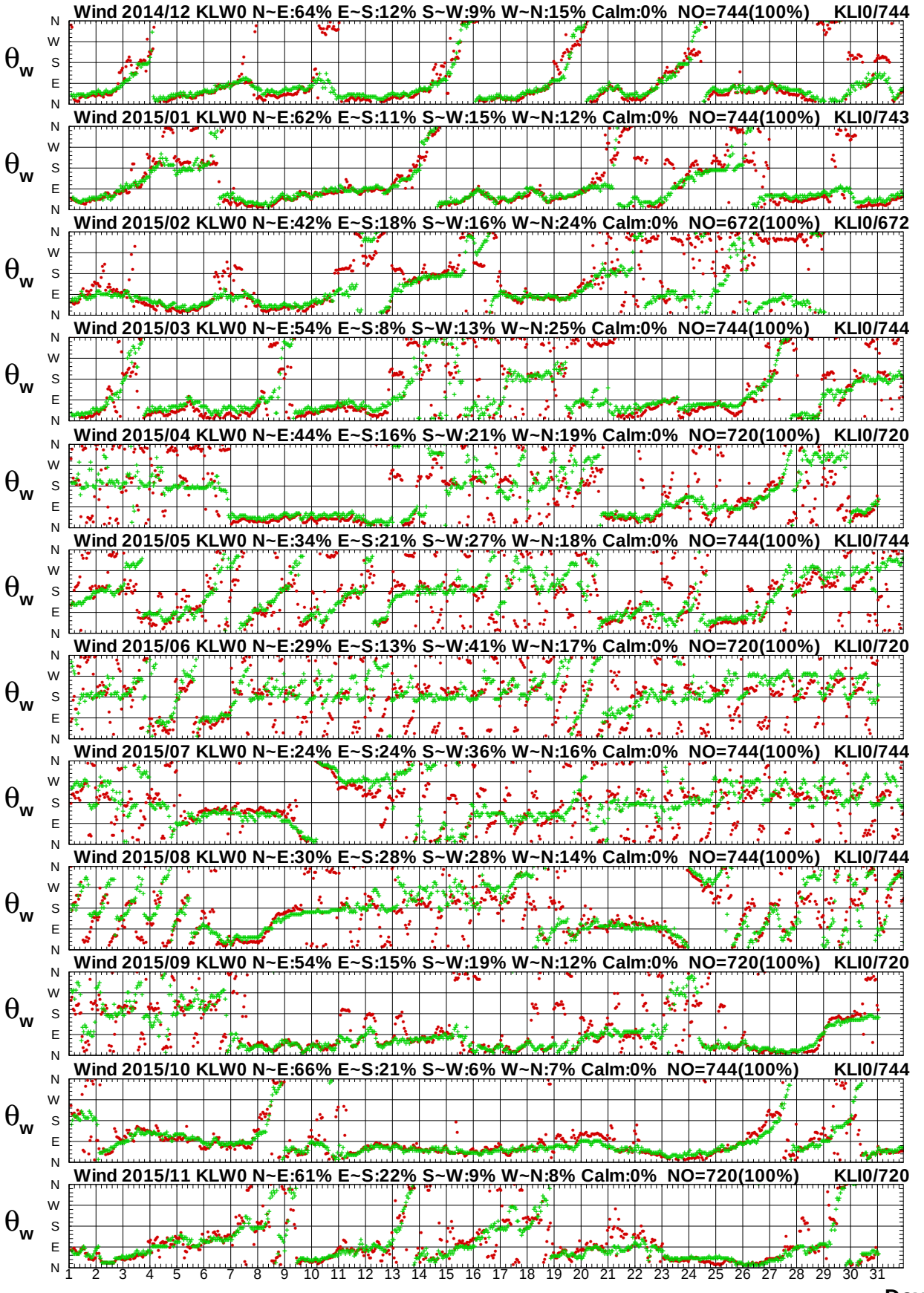

圖 2.6b　2015年每月北端海域 W 站與 I 站風向比較圖

W14CKLW0.1HA W14CKLI0.1H0 W151KLW0.1HA W151KLI0.1H0 W152KLW0.1HA W152KLI0.1H0
W153KLW0.1HA W153KLI0.1H0 W154KLW0.1HA W154KLI0.1H0 W155KLW0.1HA W155KLI0.1H0

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Wind Speed in North Seas of KLW0 at 2015

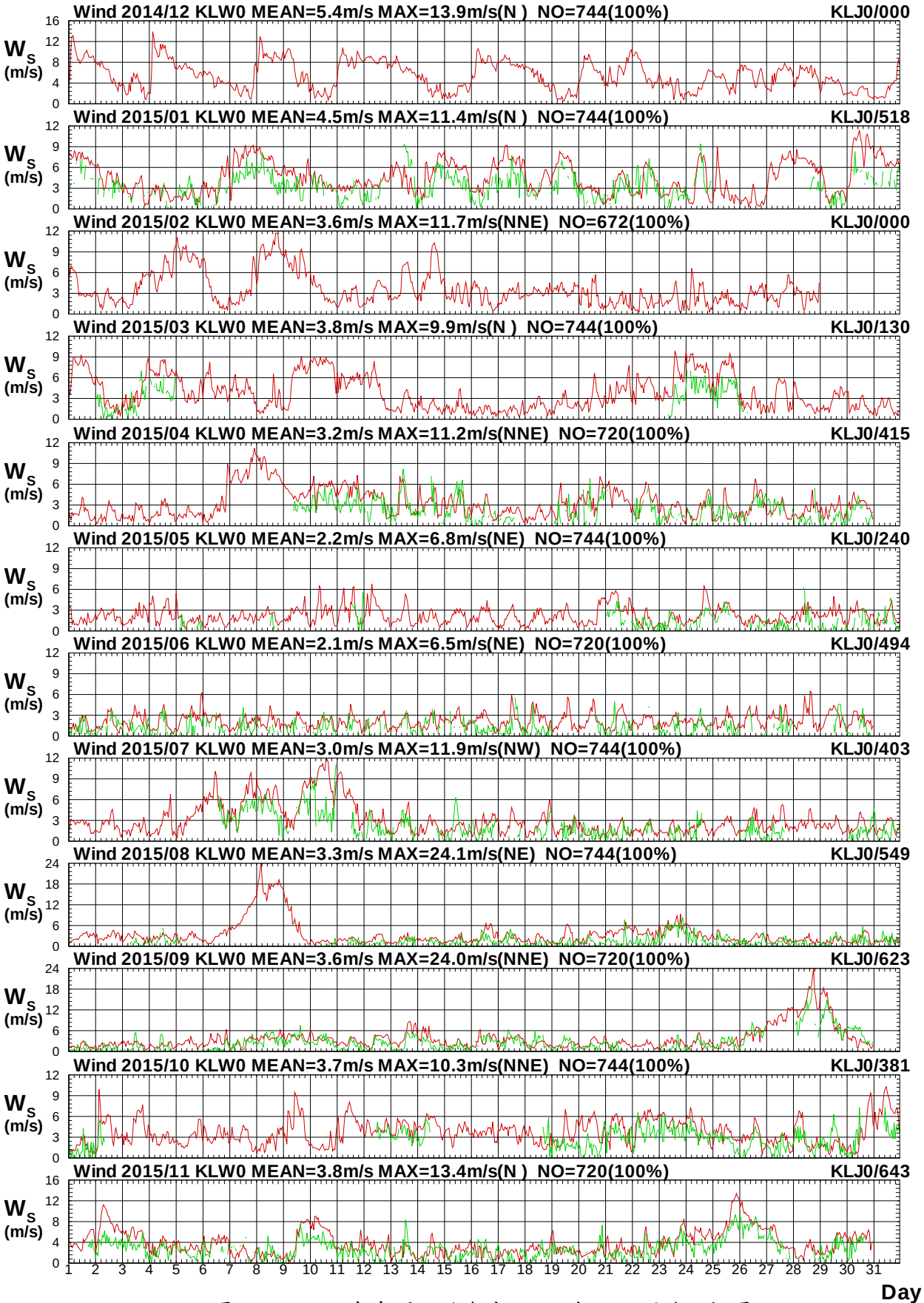

圖 2.7a　2015年每月北端海域 W 站與 J 站風速比較圖

W14CKLW0.1HA W14CKLJ0.1H0 W151KLW0.1HA W151KLJ0.1H0 W152KLW0.1HA W152KLJ0.1H0
W153KLW0.1HA W153KLJ0.1H0 W154KLW0.1HA W154KLJ0.1H0 W155KLW0.1HA W155KLJ0.1H0

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Wind Direction in North Seas of KLW0 at 2015

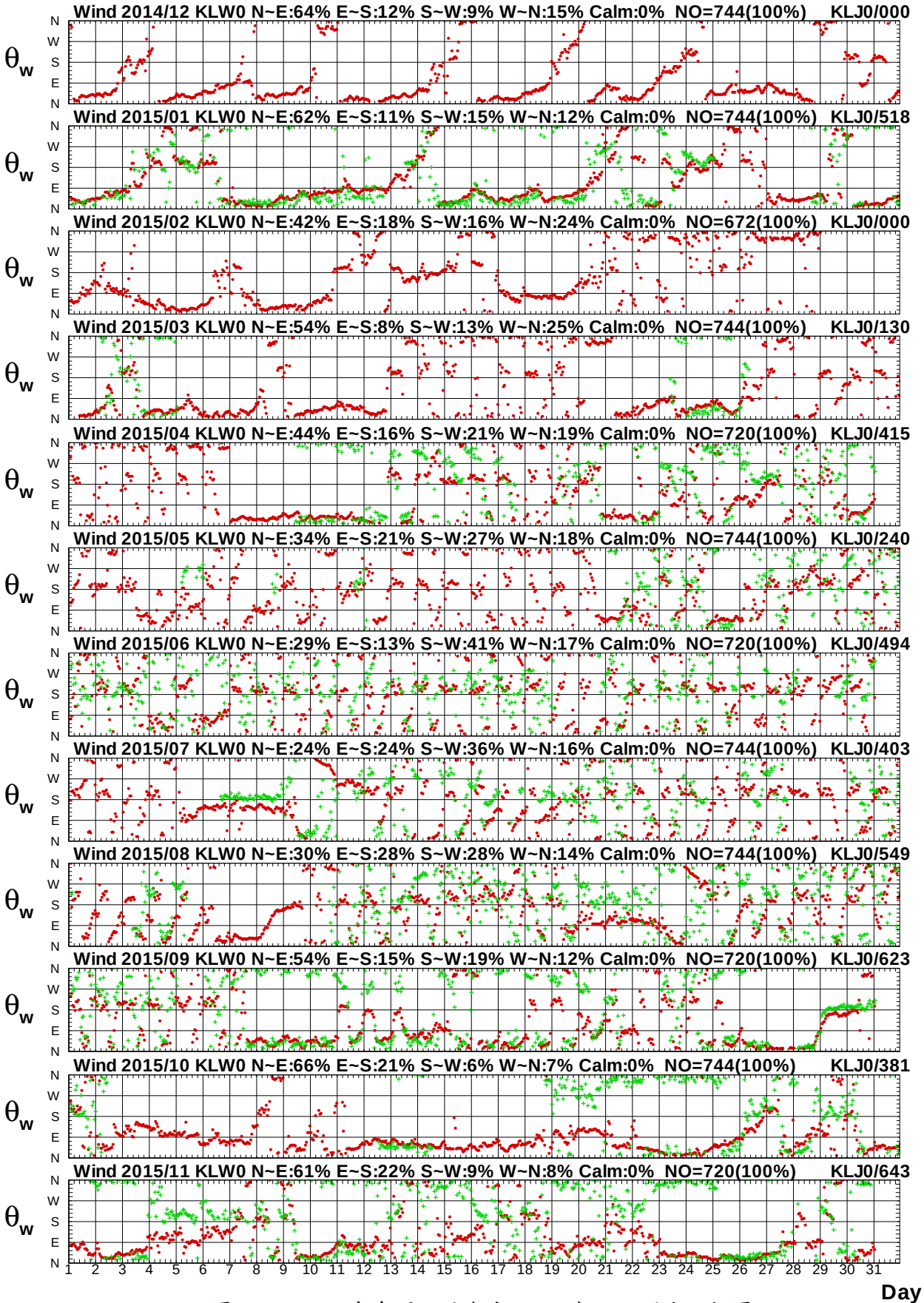

圖 2.7b　2015年每月北端海域 W 站與 J 站風向比較圖

W14CKLW0.1HA W14CKLJ0.1H0 W151KLW0.1HA W151KLJ0.1H0 W152KLW0.1HA W152KLJ0.1H0
W153KLW0.1HA W153KLJ0.1H0 W154KLW0.1HA W154KLJ0.1H0 W155KLW0.1HA W155KLJ0.1H0

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Wind Speed in North Seas of KLW0 at 2015

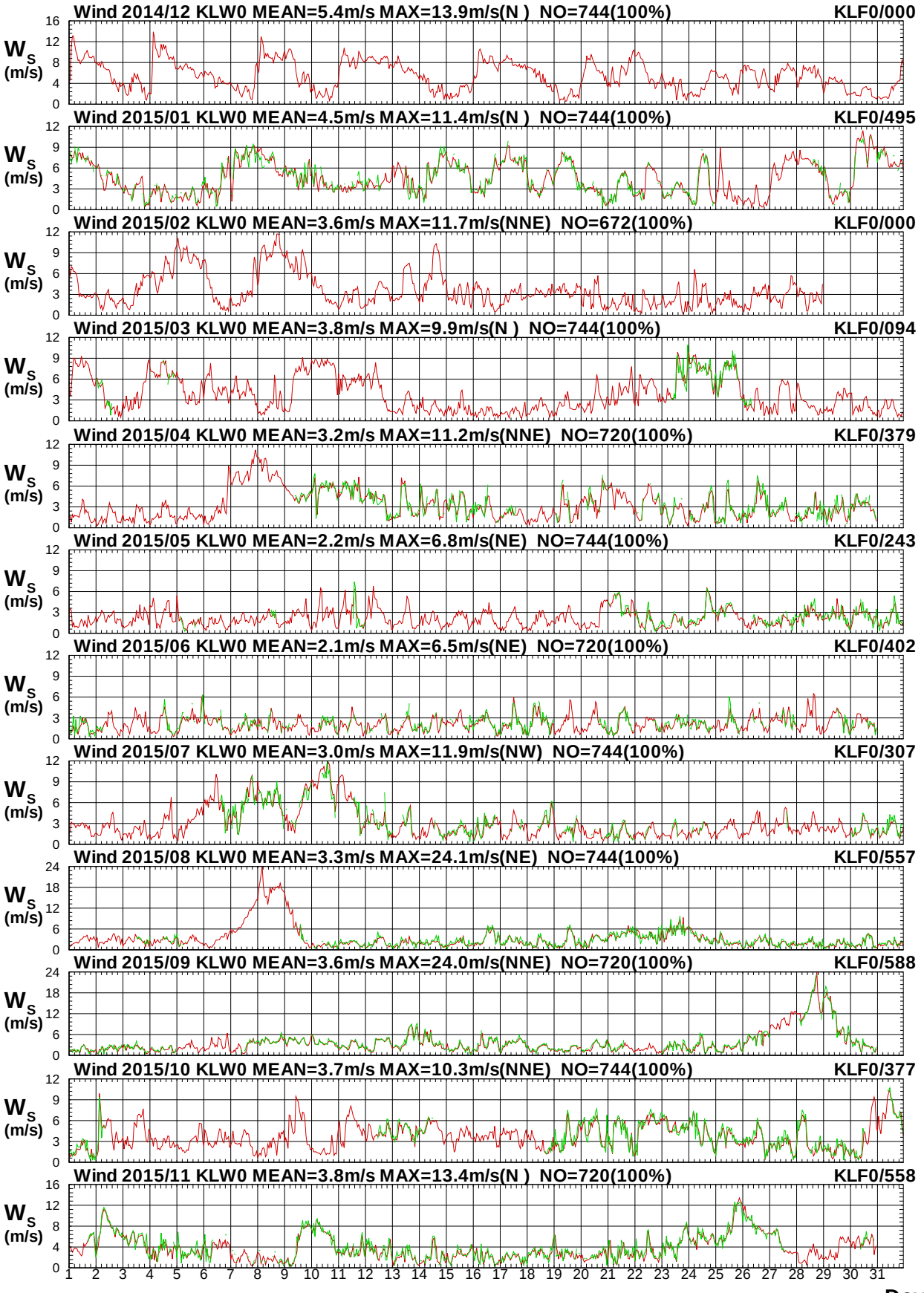

圖 2.8a　2015年每月北端海域 W 站與 F 站風速比較圖

W14CKLW0.1HA W14CKLF0.1H0 W151KLW0.1HA W151KLF0.1H0 W152KLW0.1HA W152KLF0.1H0
W153KLW0.1HA W153KLF0.1H0 W154KLW0.1HA W154KLF0.1H0 W155KLW0.1HA W155KLF0.1H0

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Wind Direction in North Seas of KLW0 at 2015

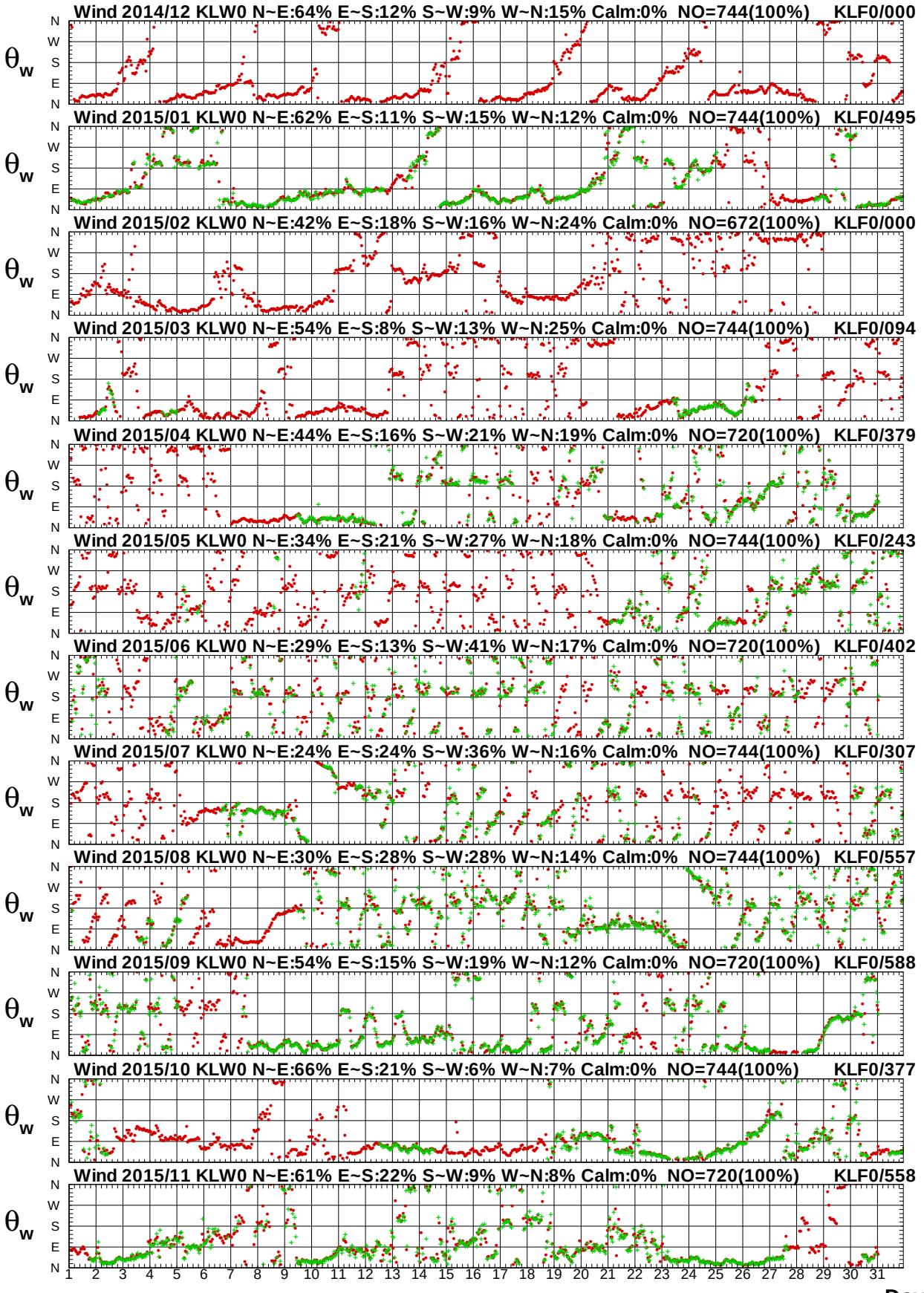

圖 2.8b　2015年每月北端海域 W 站與 F 站風向比較圖

Wind Speed in North Seas of KLW0 at 2015

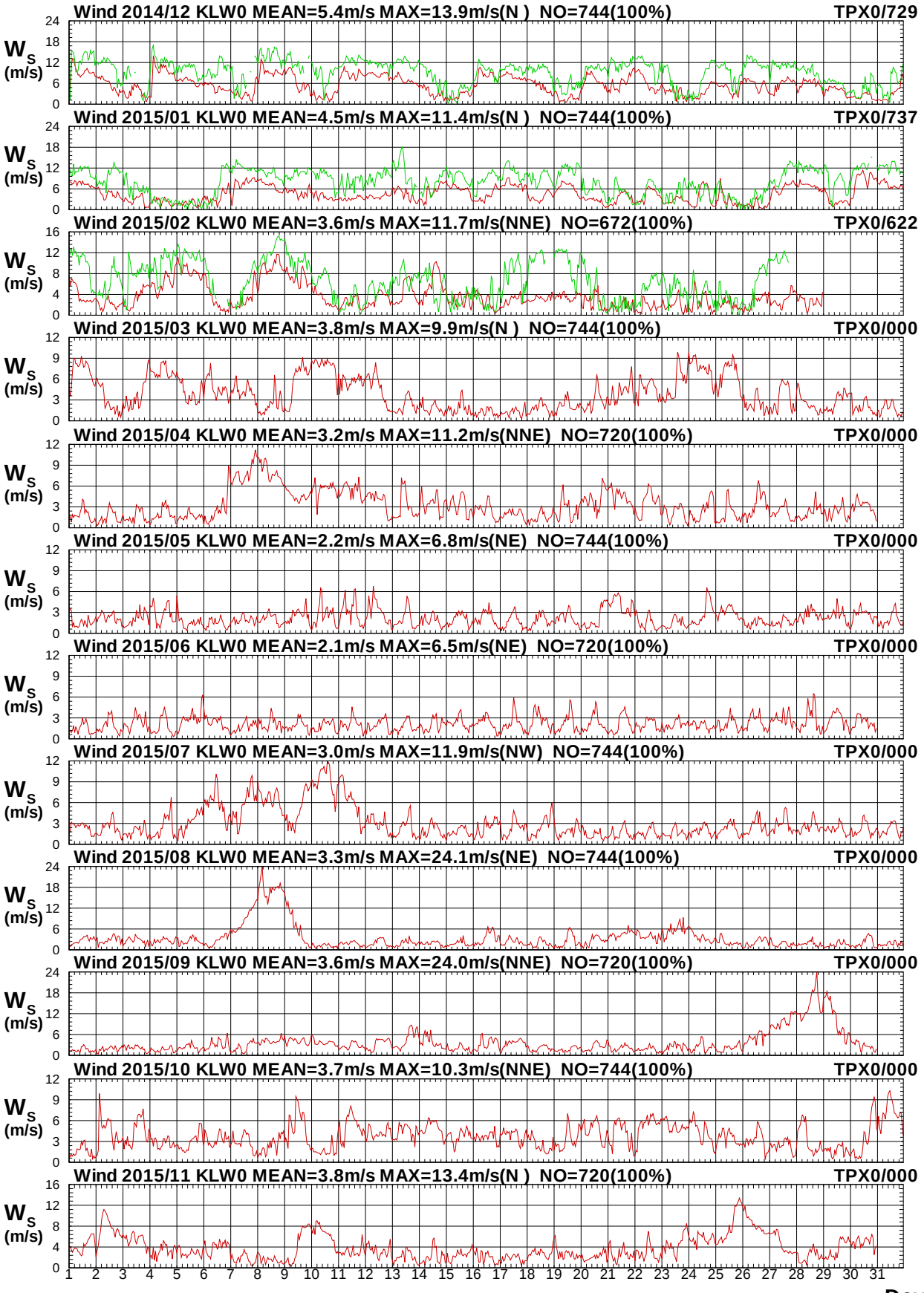

圖2.9a　2015年每月北端海域 W 站與北苗海域 X 站風速圖

W14CKLW0.1HA W14CTPX0.1H0 W151KLW0.1HA W151TPX0.1H0 W152KLW0.1HA W152TPX0.1H0
W153KLW0.1HA W153TPX0.1H0 W154KLW0.1HA W154TPX0.1H0 W155KLW0.1HA W155TPX0.1H0

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Wind Direction in North Seas of KLW0 at 2015

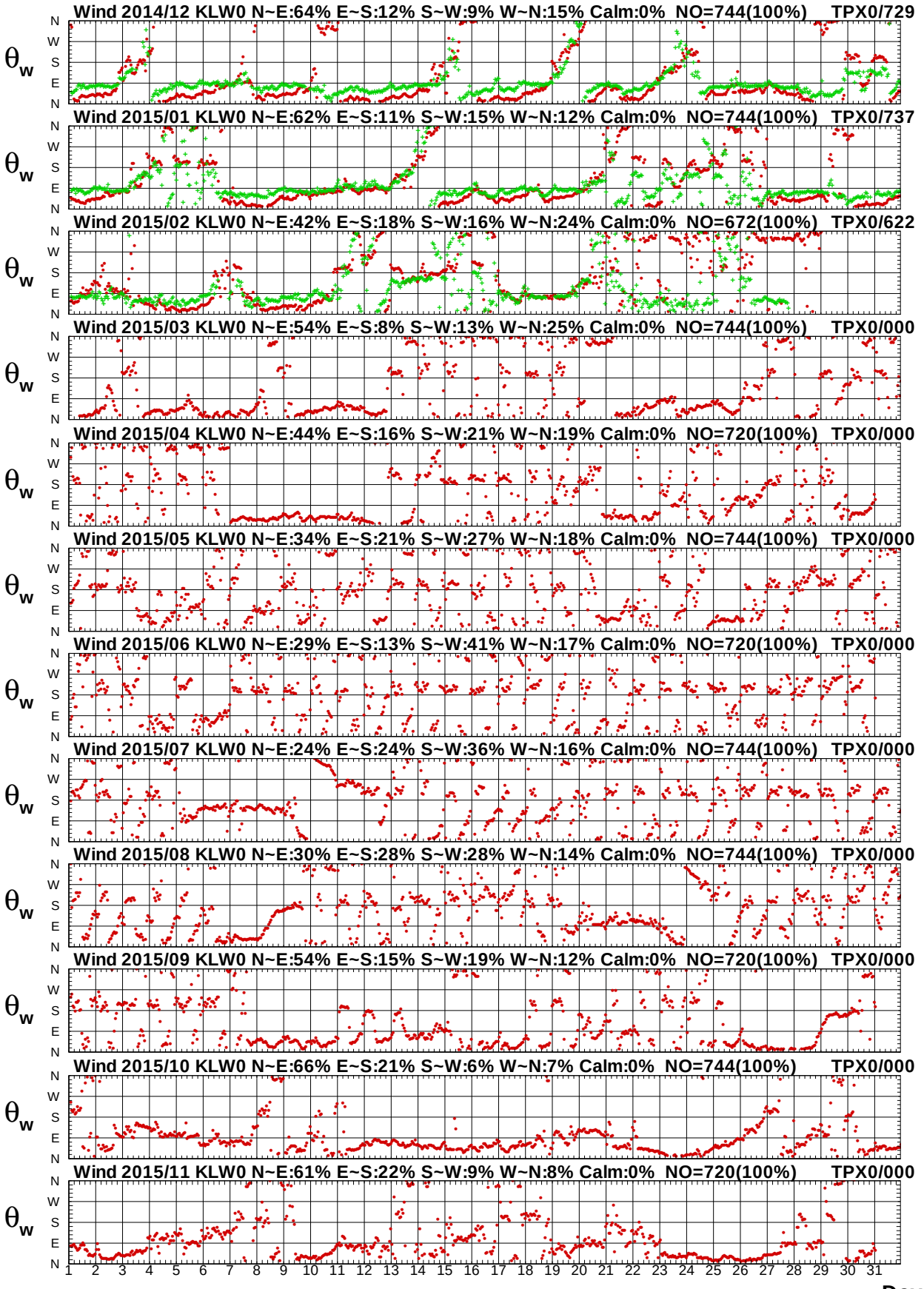

圖2.9b　2015年每月北端海域 W 站與北苗海域 X 站風向圖

Wind Speed in North Seas of KLW0 at 2015

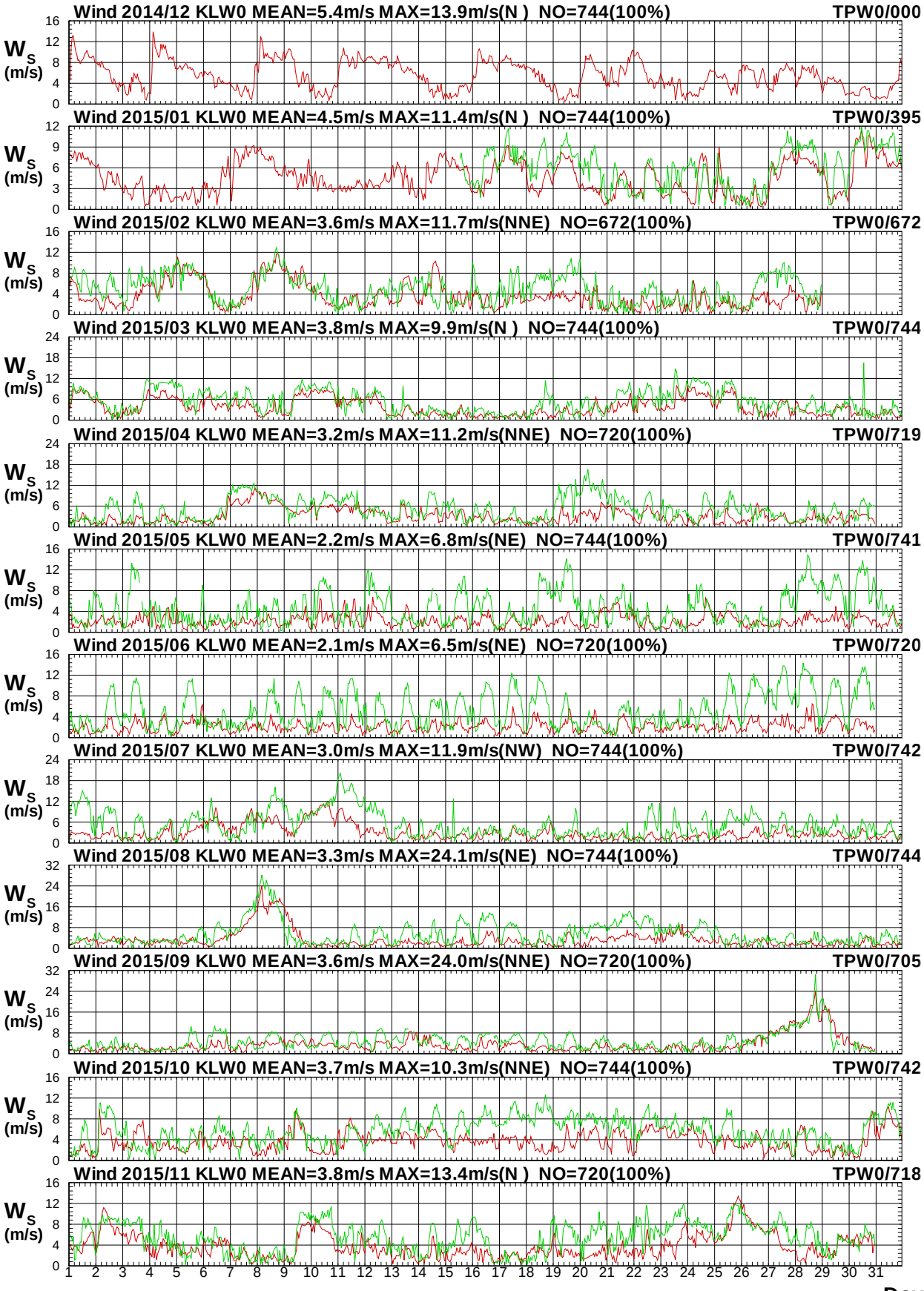

圖 2.10a　2015年每月北端海域 W 站與北苗海域 W 站風速圖

Wind Direction in North Seas of KLW0 at 2015

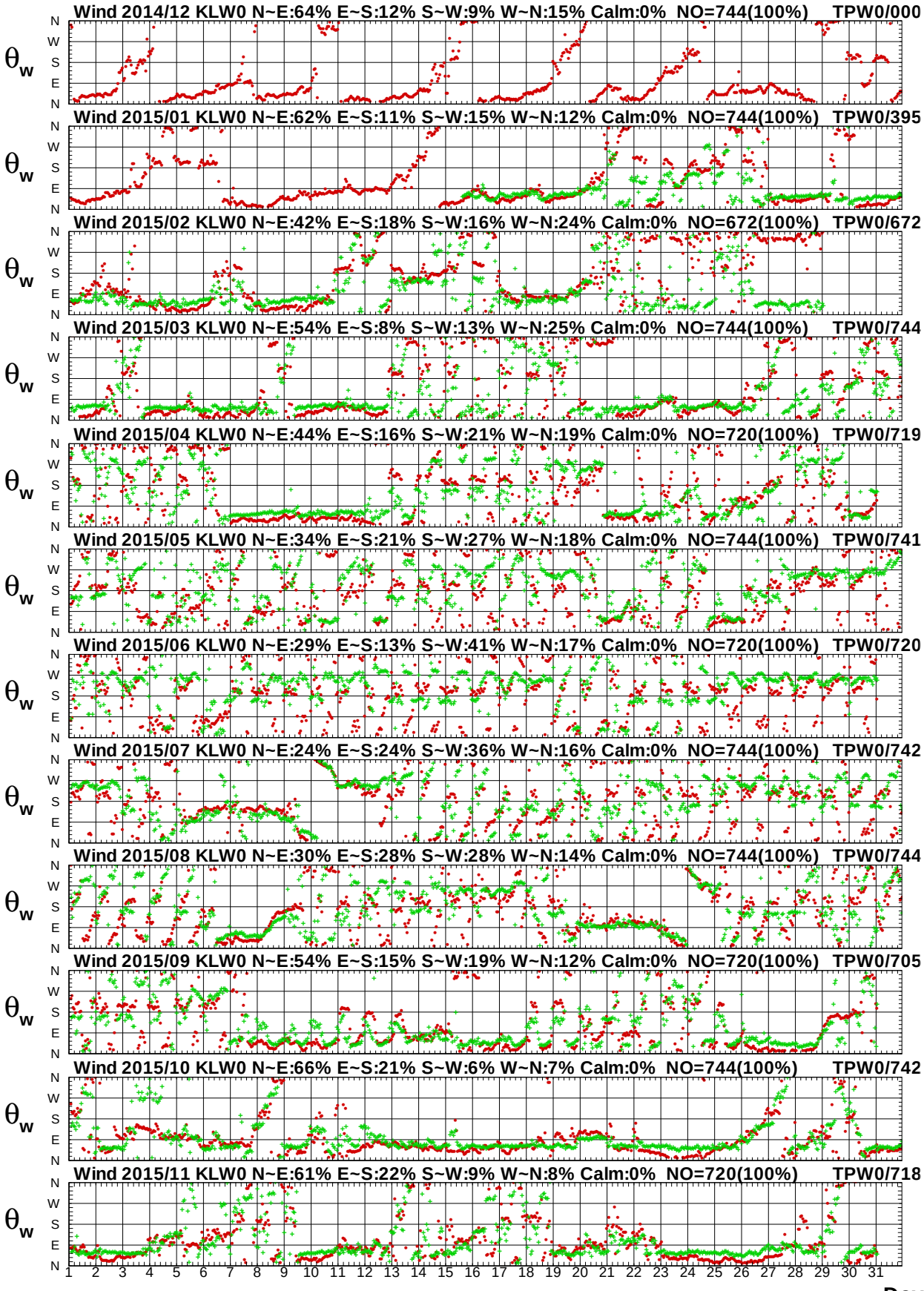

圖2.10b　2015年每月北端海域 W 站與北苗海域 W 站風向圖

Wind Speed in North Seas of KLW0 at 2015

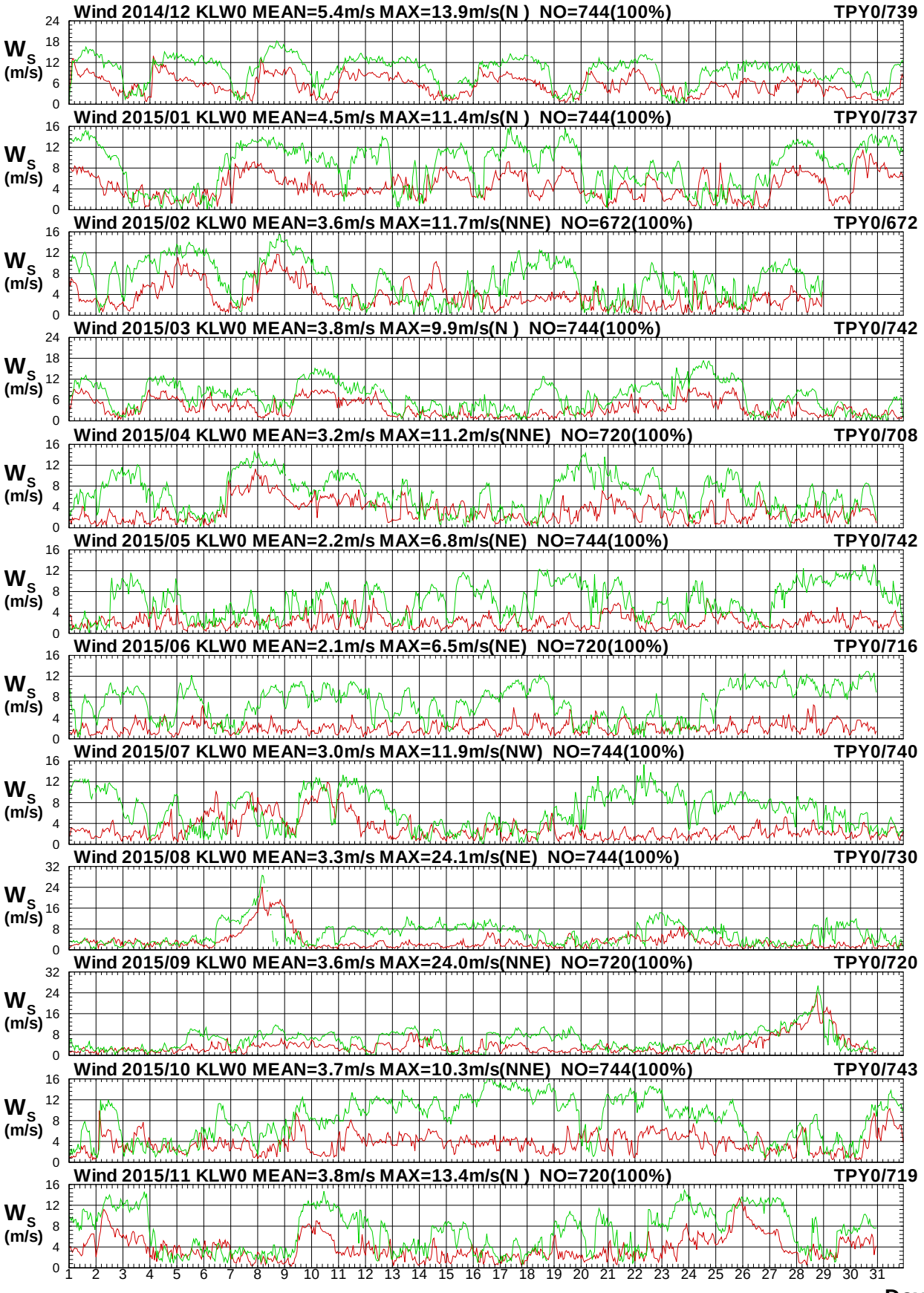

圖 2.11a　2015年每月北端海域 W 站與北苗海域 Y 站風速圖

Wind Direction in North Seas of KLW0 at 2015

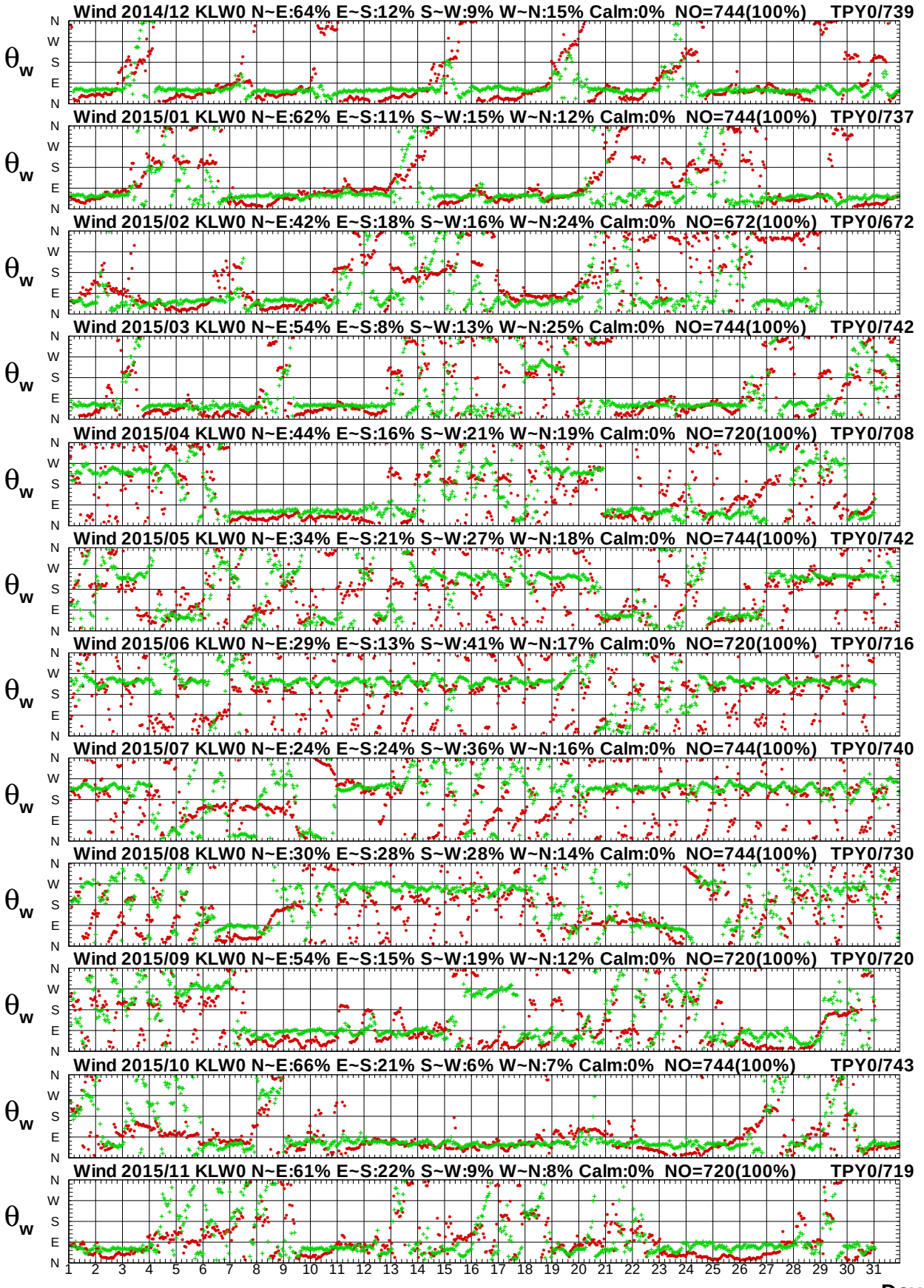

圖 2.11b　2015年每月北端海域 W 站與北苗海域 Y 站風向圖

Wind Speed in North Seas of KLW0 at 2015

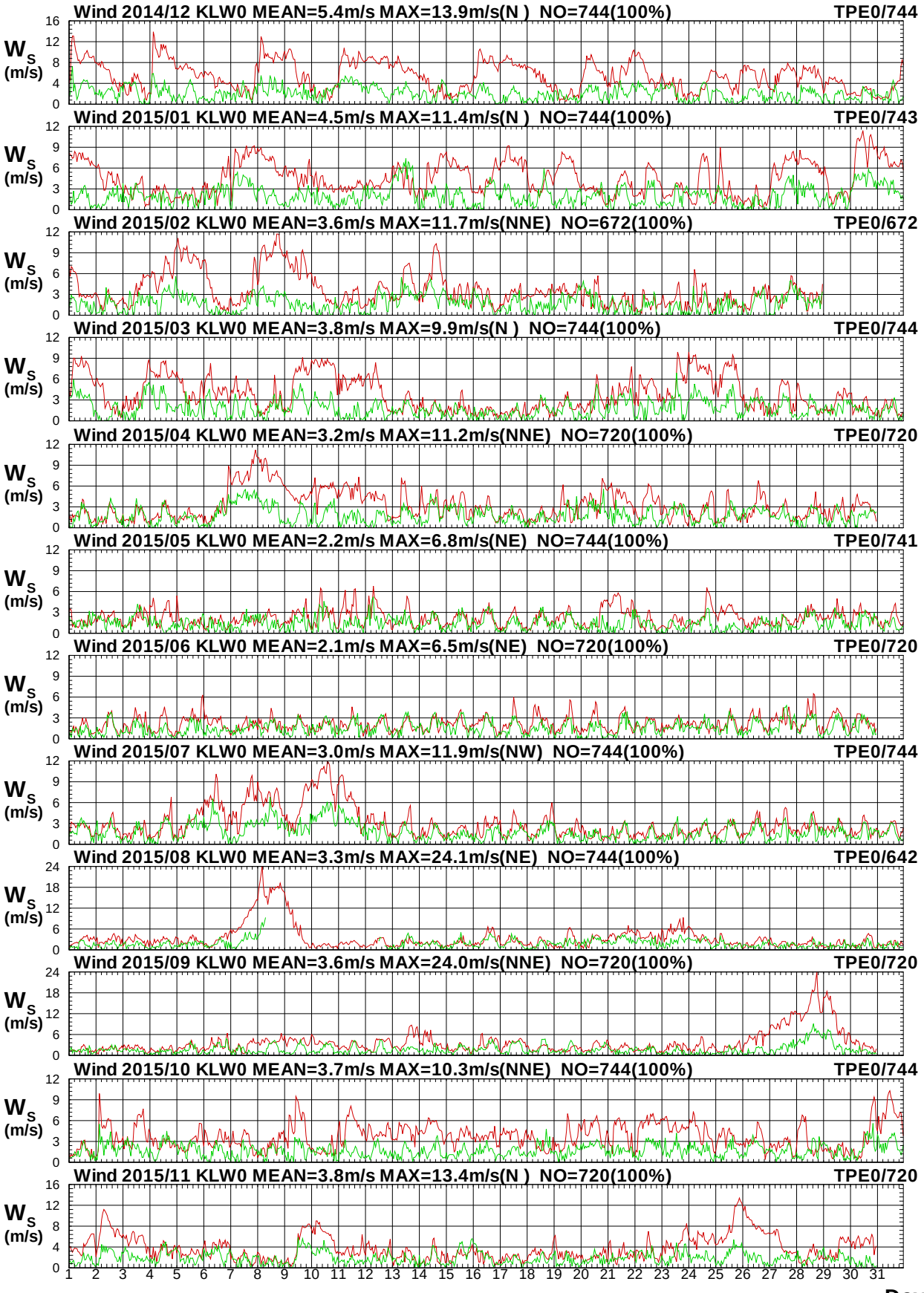

圖 2.12a　2015年每月北端海域 W 站與北苗海域 E 站風速圖

W14CKLW0.1HA W14CTPE0.1H0 W151KLW0.1HA W151TPE0.1H0 W152KLW0.1HA W152TPE0.1H0
W153KLW0.1HA W153TPE0.1H0 W154KLW0.1HA W154TPE0.1H0 W155KLW0.1HA W155TPE0.1H0

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Wind Direction in North Seas of KLW0 at 2015

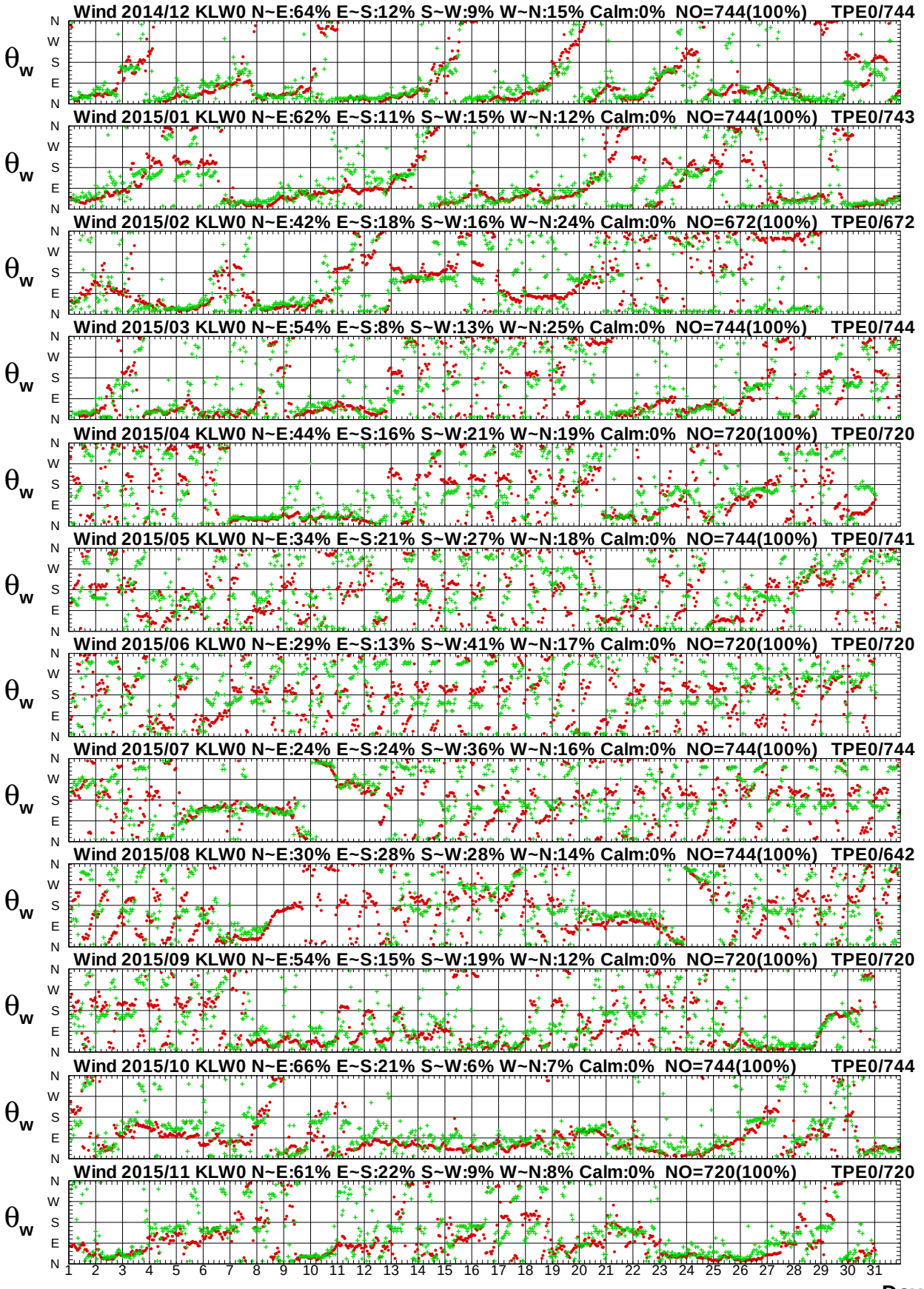

圖 2.12b　2015年每月北端海域 W 站與北苗海域 E 站風向圖

Wind Speed in North Seas of KLW0 at 2015

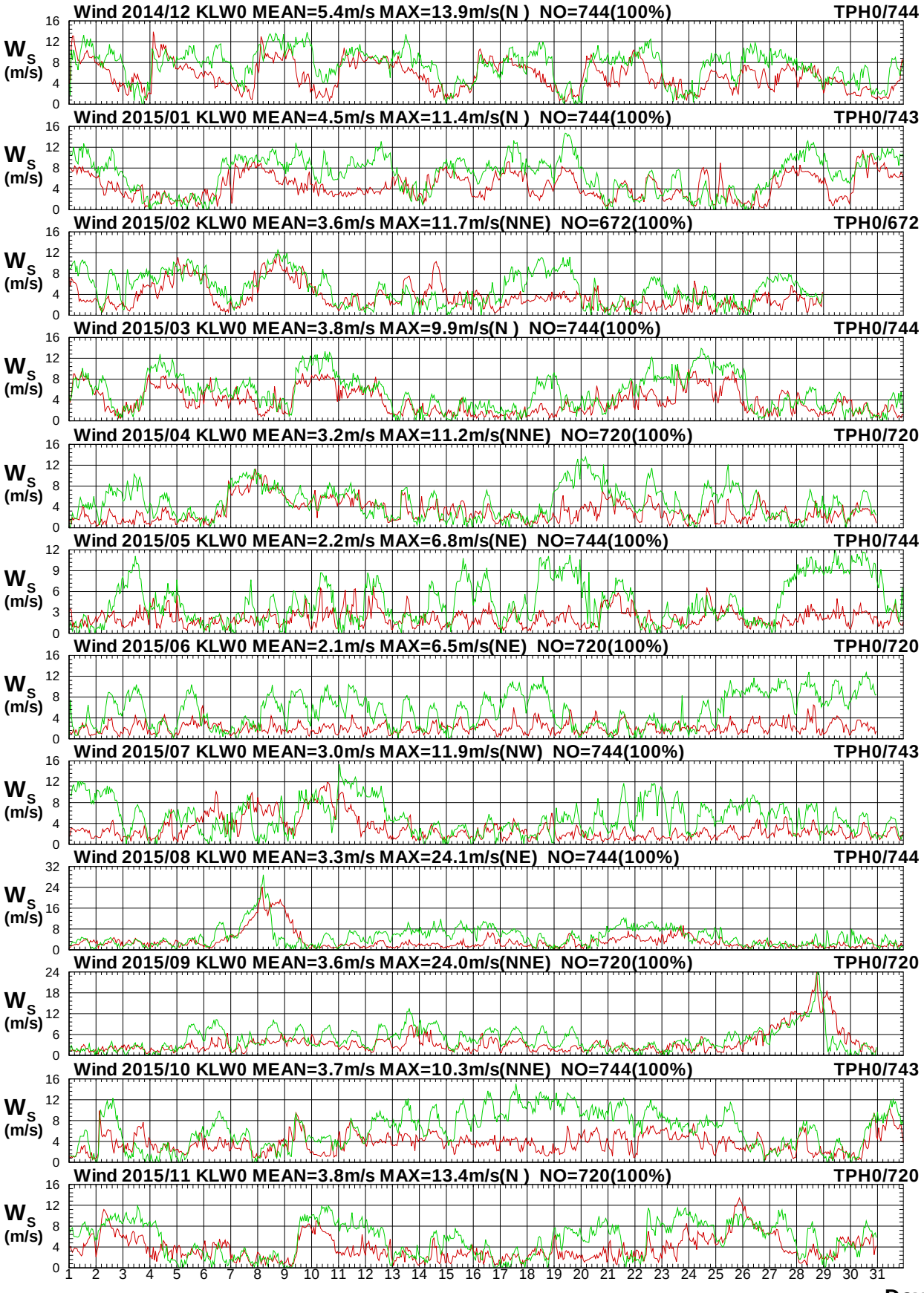

圖 2.13a　2015年每月北端海域 W 站與北苗海域 H 站風速圖

Wind Direction in North Seas of KLW0 at 2015

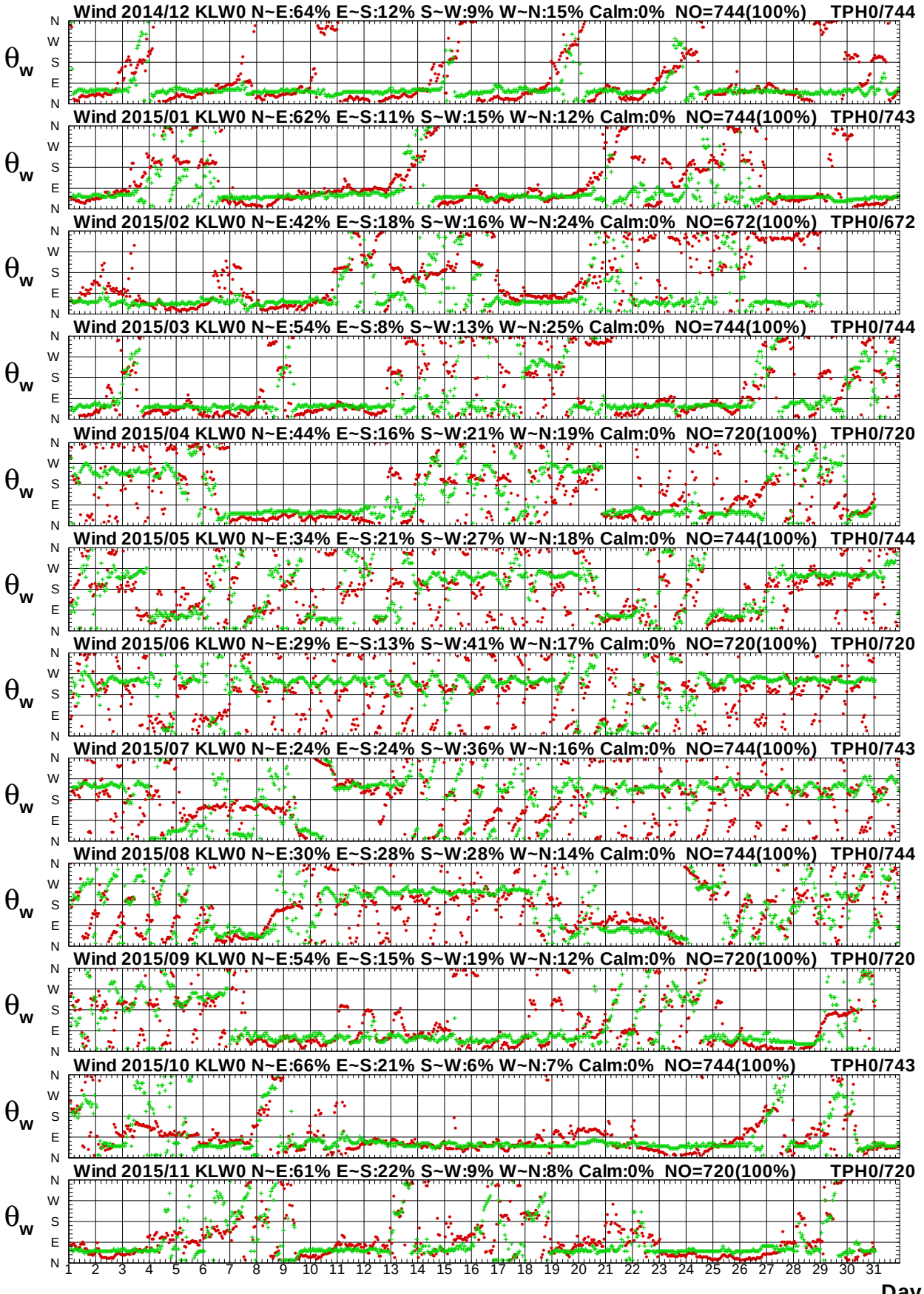

圖 2.13b　2015年每月北端海域 W 站與北苗海域 H 站風向圖

W14CKLW0.1HA W14CTPH0.1H0 W151KLW0.1HA W151TPH0.1H0 W152KLW0.1HA W152TPH0.1H0
W153KLW0.1HA W153TPH0.1H0 W154KLW0.1HA W154TPH0.1H0 W155KLW0.1HA W155TPH0.1H0

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Wind Speed in North Seas of KLW0 at 2015

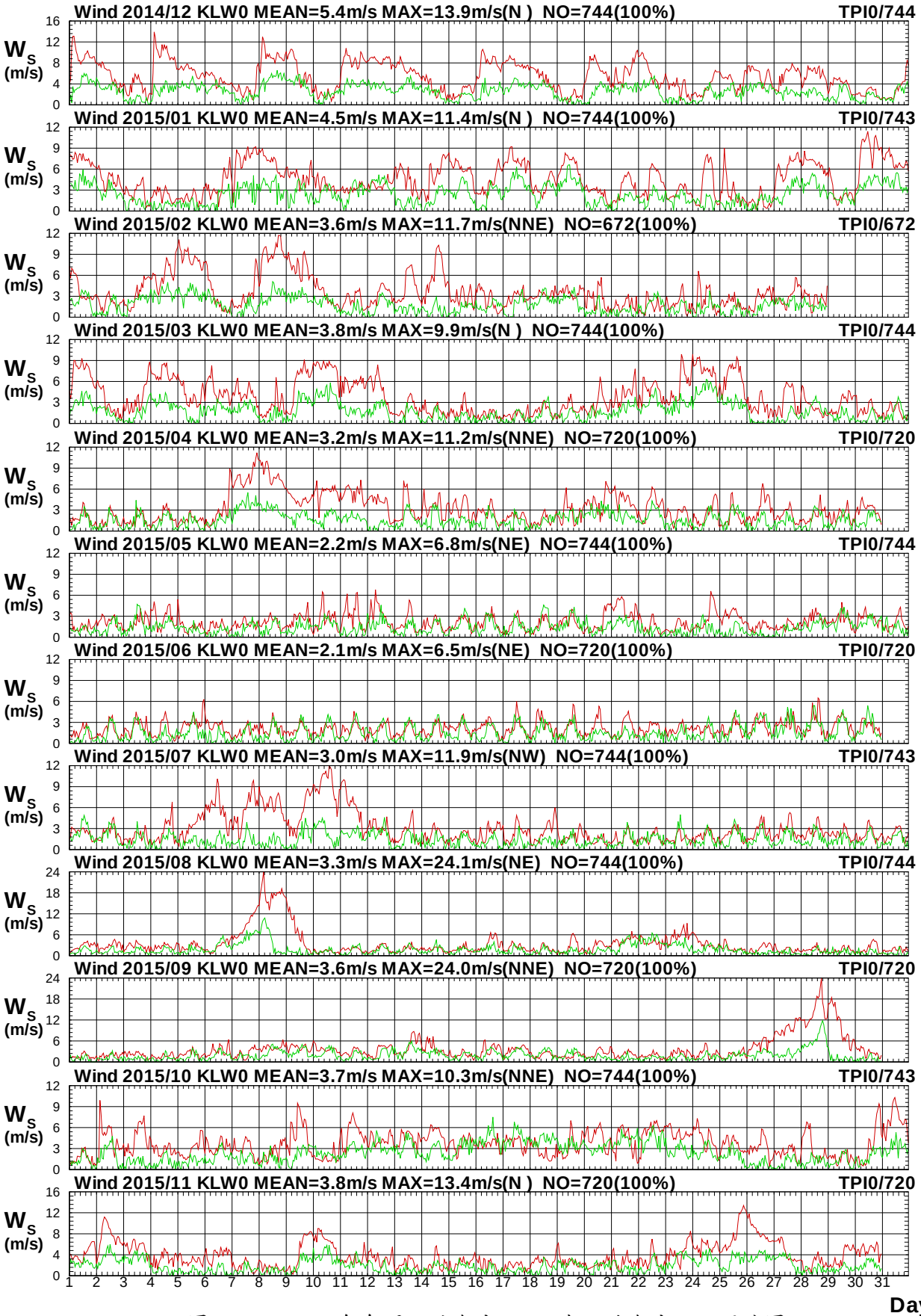

圖2.14a　2015年每月北端海域 W 站與北苗海域 I 站風速圖

W14CKLW0.1HA W14CTPI0.1H0 W151KLW0.1HA W151TPI0.1H0 W152KLW0.1HA W152TPI0.1H0
W153KLW0.1HA W153TPI0.1H0 W154KLW0.1HA W154TPI0.1H0 W155KLW0.1HA W155TPI0.1H0

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Wind Direction in North Seas of KLW0 at 2015

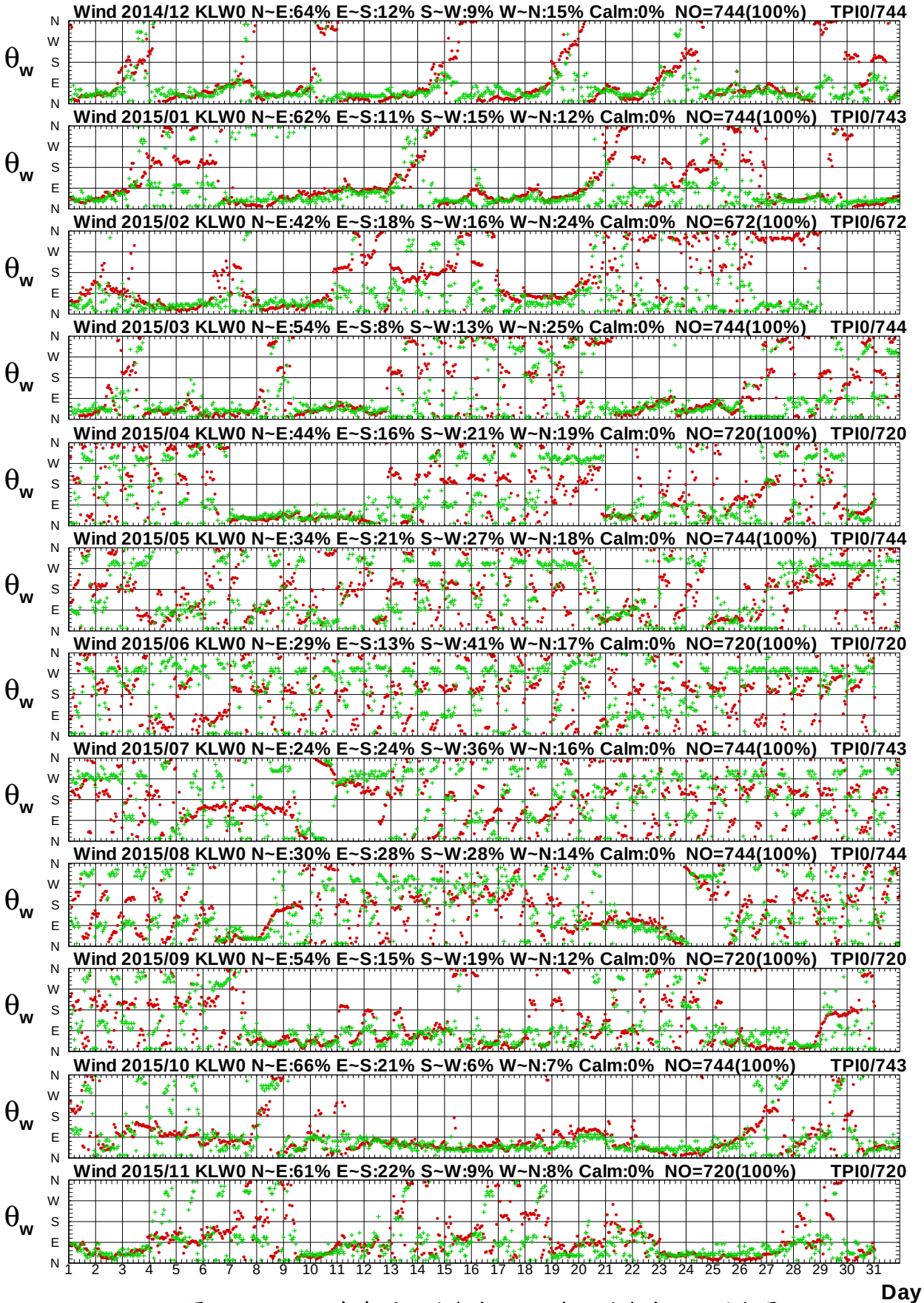

圖2.14b　2015年每月北端海域 W 站與北苗海域 I 站風向圖

Wind Speed in North Seas of KLW0 at 2015

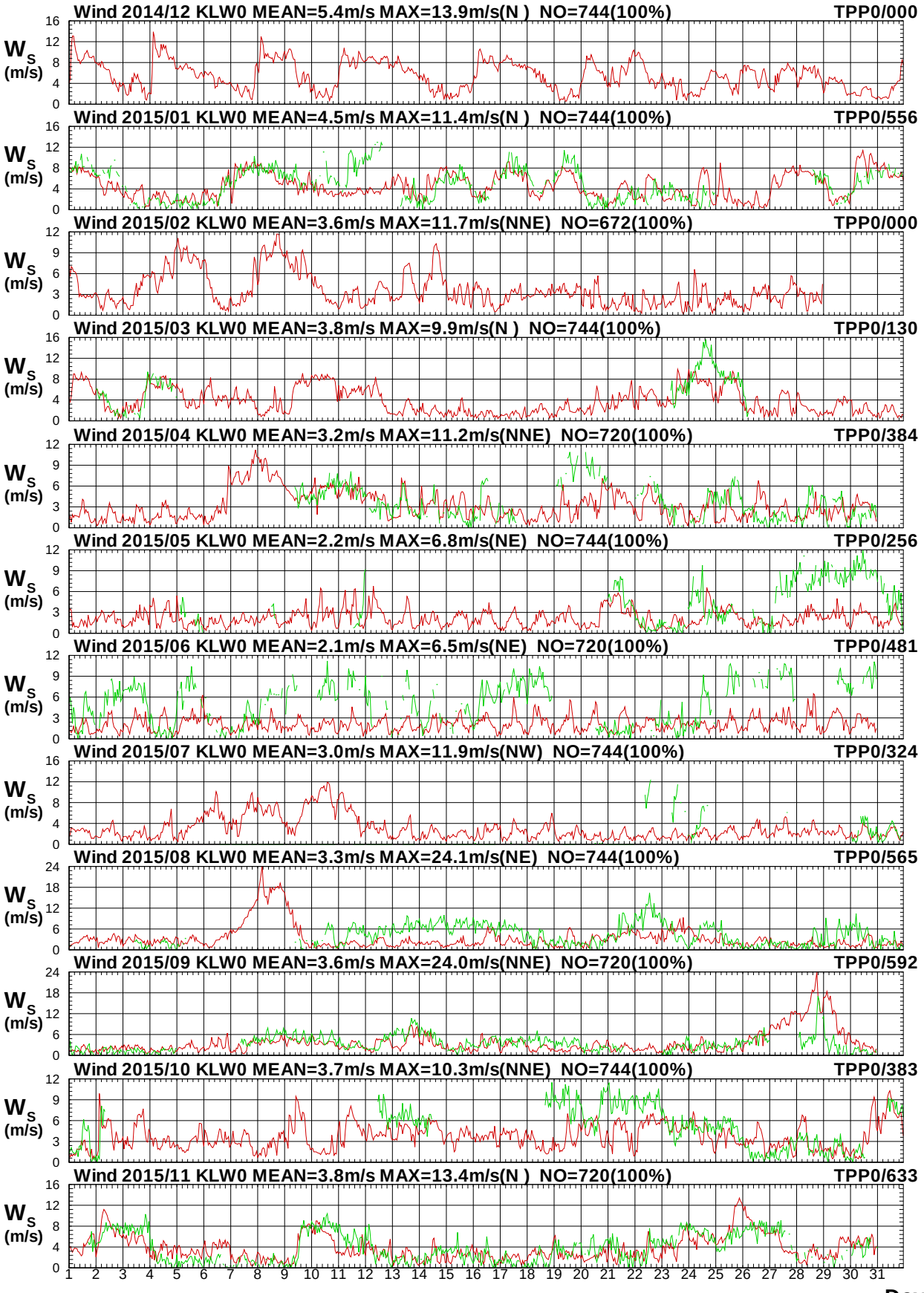

圖 2.15a　2015年每月北端海域 W 站與北苗海域 P 站風速圖

W14CKLW0.1HA W14CTPP0.1H0 W151KLW0.1HA W151TPP0.1H0 W152KLW0.1HA W152TPP0.1H0
W153KLW0.1HA W153TPP0.1H0 W154KLW0.1HA W154TPP0.1H0 W155KLW0.1HA W155TPP0.1H0

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Wind Direction in North Seas of KLW0 at 2015

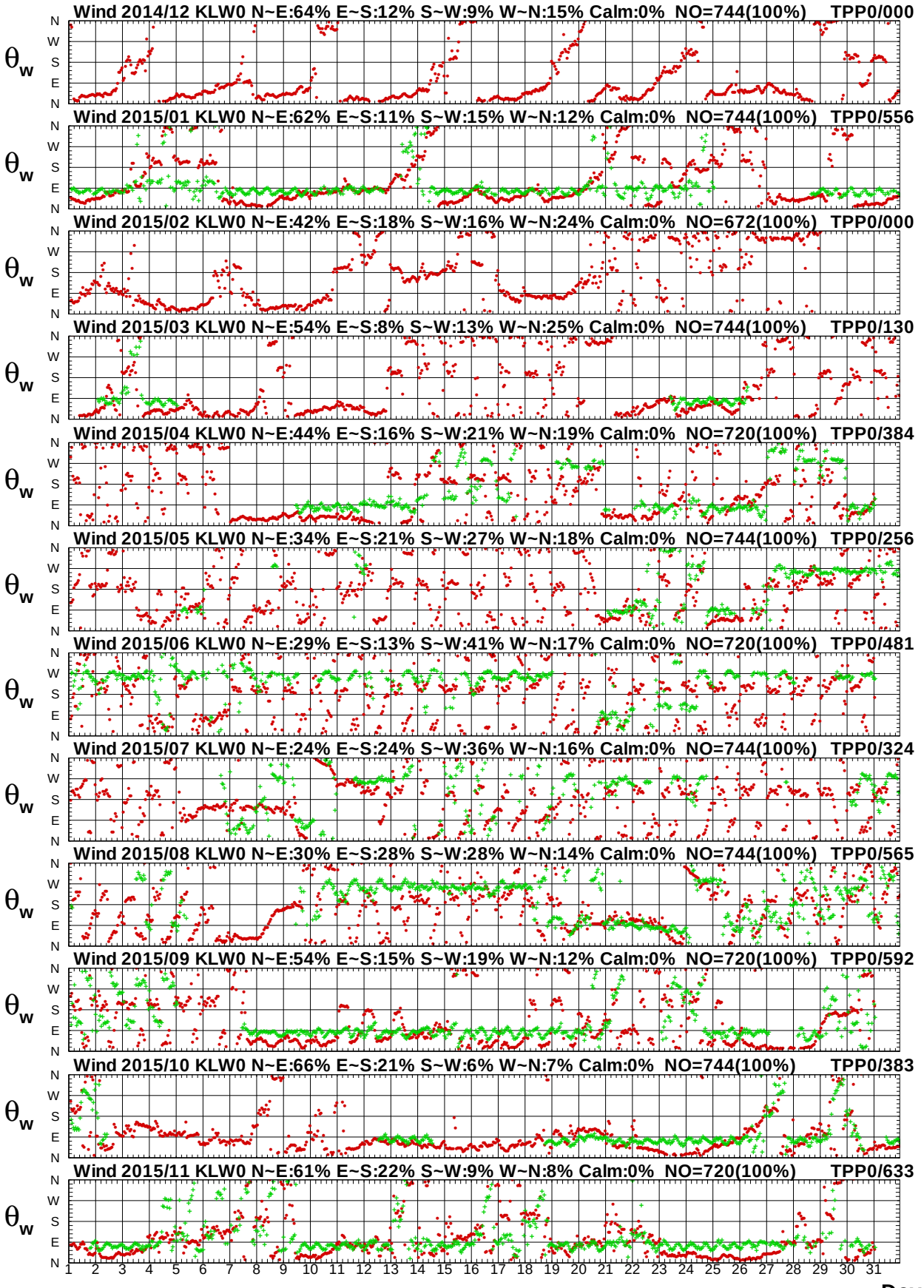

圖 2.15b　2015年每月北端海域 W 站與北苗海域 P 站風向圖

Wind Speed in North Seas of KLW0 at 2015

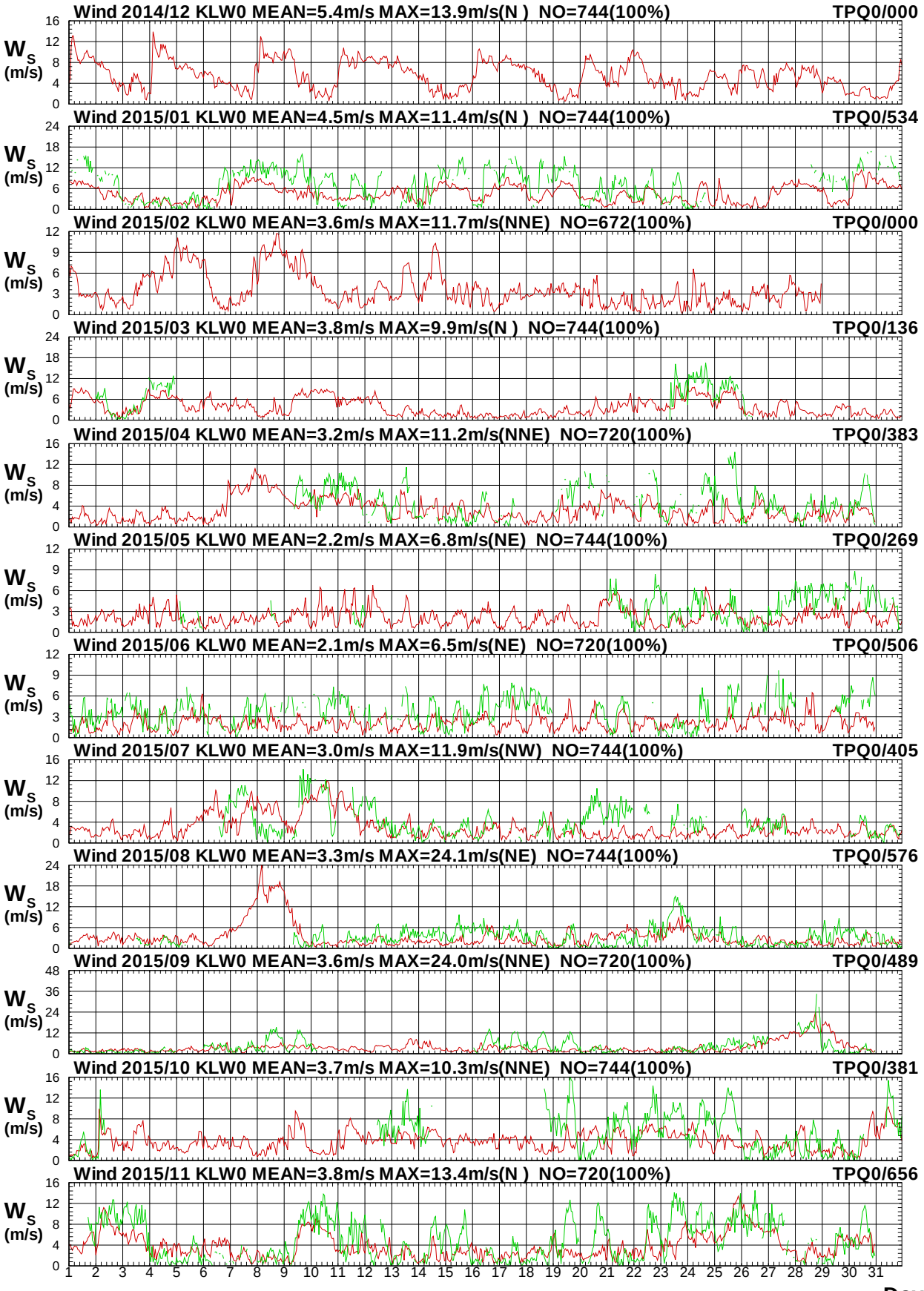

圖 2.16a　2015年每月北端海域 W 站與北苗海域 Q 站風速圖

W14CKLW0.1HA W14CTPQ0.1H0 W151KLW0.1HA W151TPQ0.1H0 W152KLW0.1HA W152TPQ0.1H0
W153KLW0.1HA W153TPQ0.1H0 W154KLW0.1HA W154TPQ0.1H0 W155KLW0.1HA W155TPQ0.1H0

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Wind Direction in North Seas of KLW0 at 2015

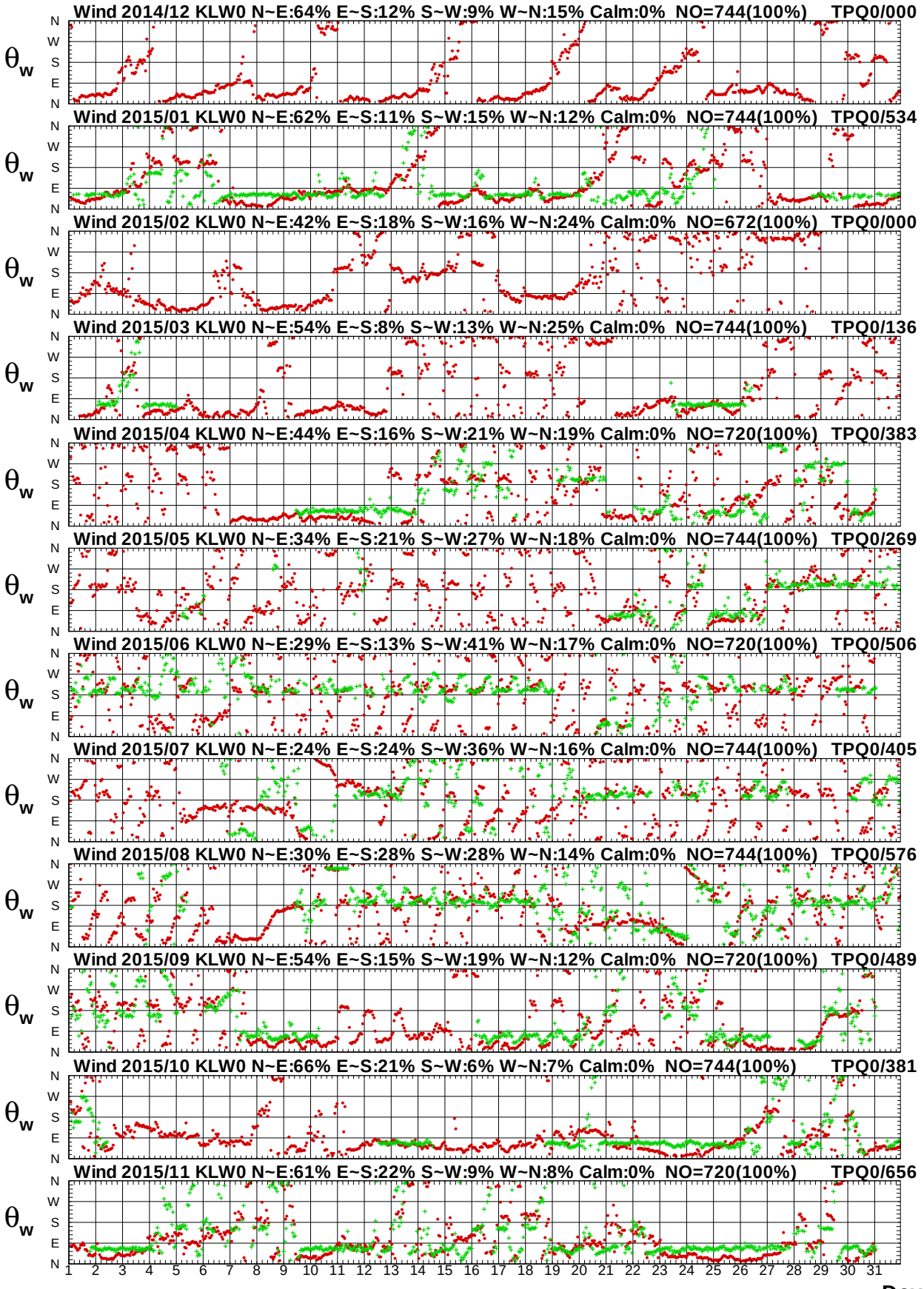

圖 2.16b　2015年每月北端海域 W 站與北苗海域 Q 站風向圖

Wind Speed in North Seas of KLW0 at 2015

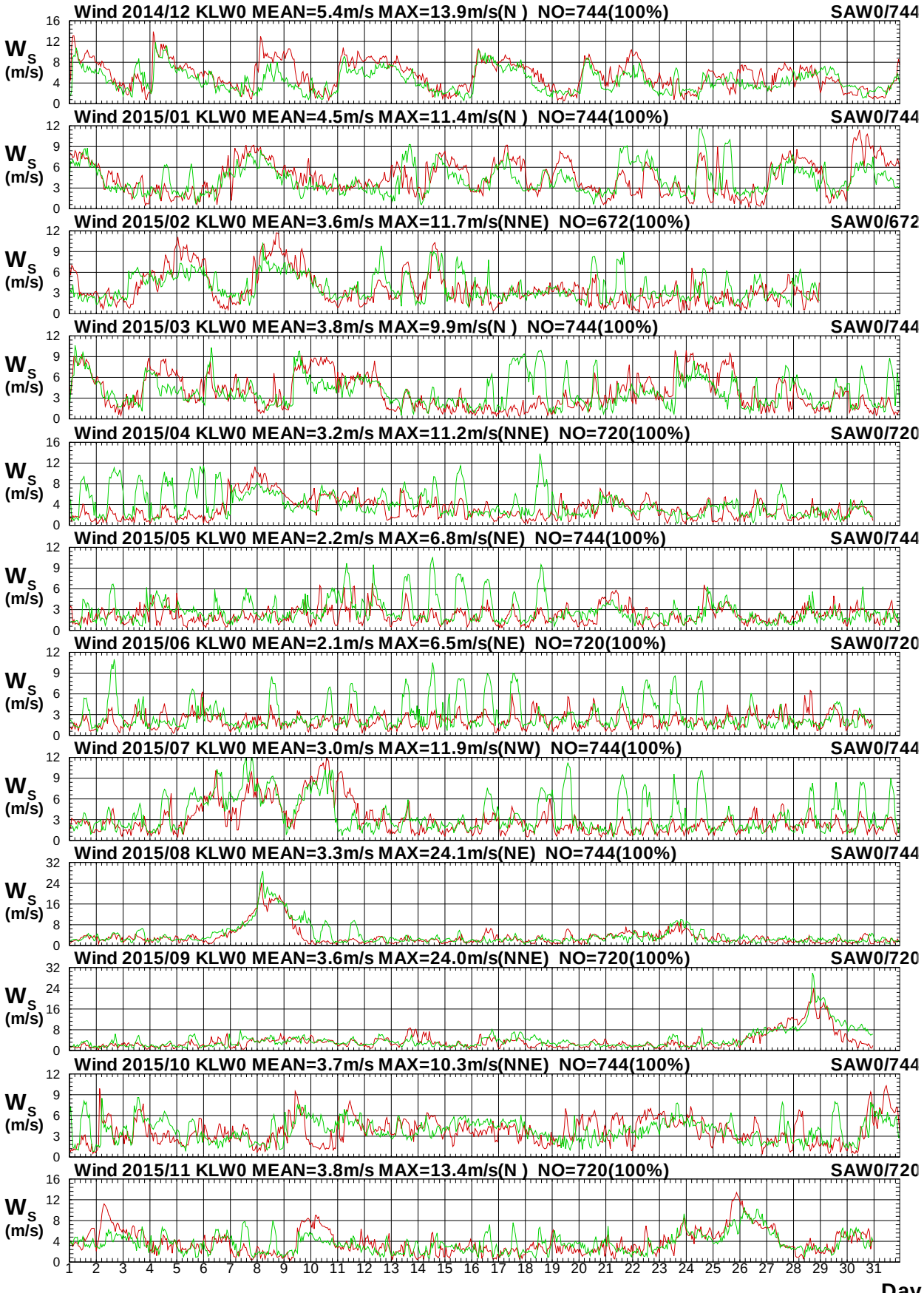

圖 2.17a　2015年每月北端海域 W 站與宜蘭海域 W 站風速圖

W14CKLW0.1HA W14CSAW0.1H0 W151KLW0.1HA W151SAW0.1H0 W152KLW0.1HA W152SAW0.1H0
W153KLW0.1HA W153SAW0.1H0 W154KLW0.1HA W154SAW0.1H0 W155KLW0.1HA W155SAW0.1H0

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Wind Direction in North Seas of KLW0 at 2015

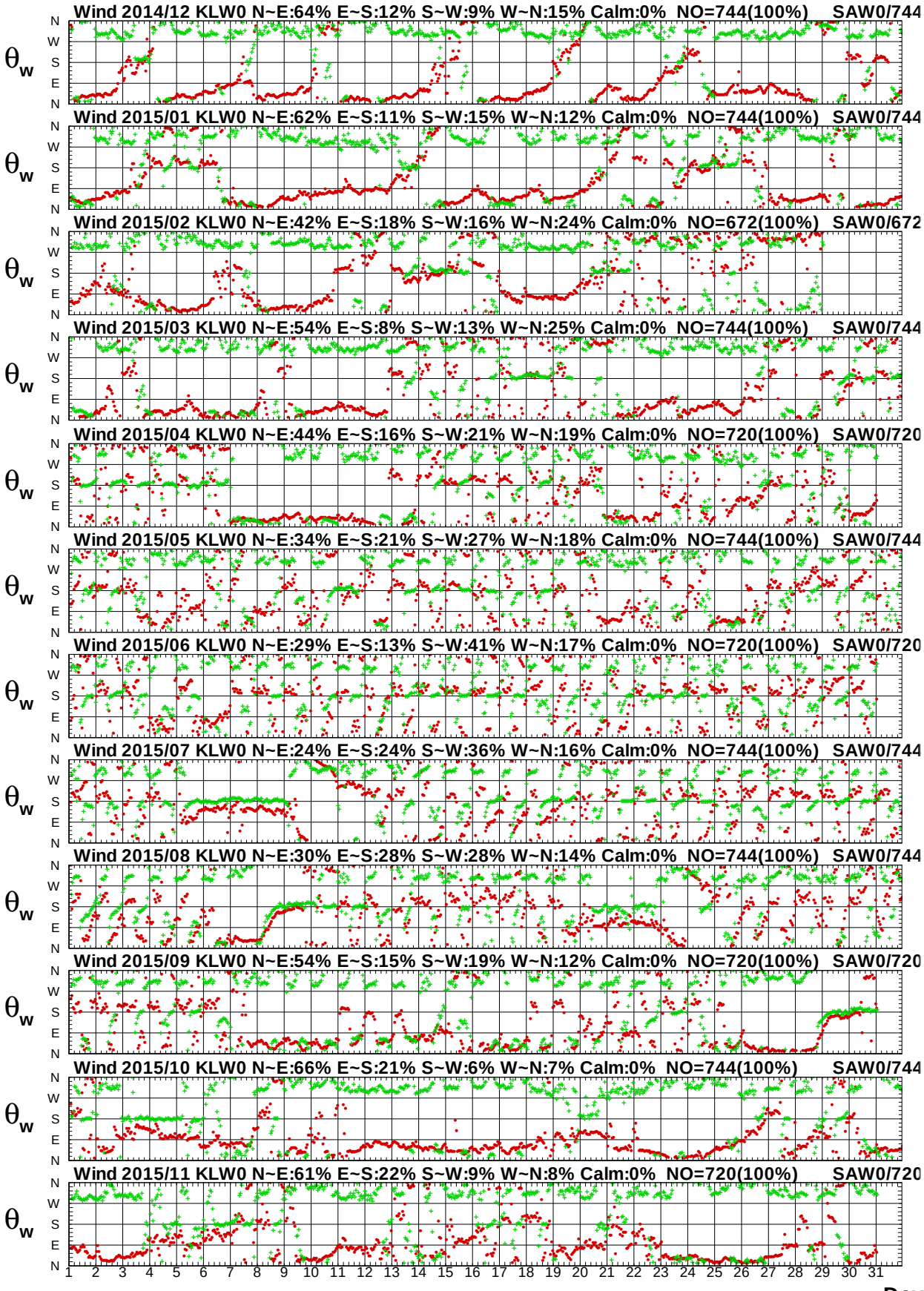

圖2.17b　2015年每月北端海域 W 站與宜蘭海域 W 站風向圖

Wind Speed in North Seas of KLW0 at 2015

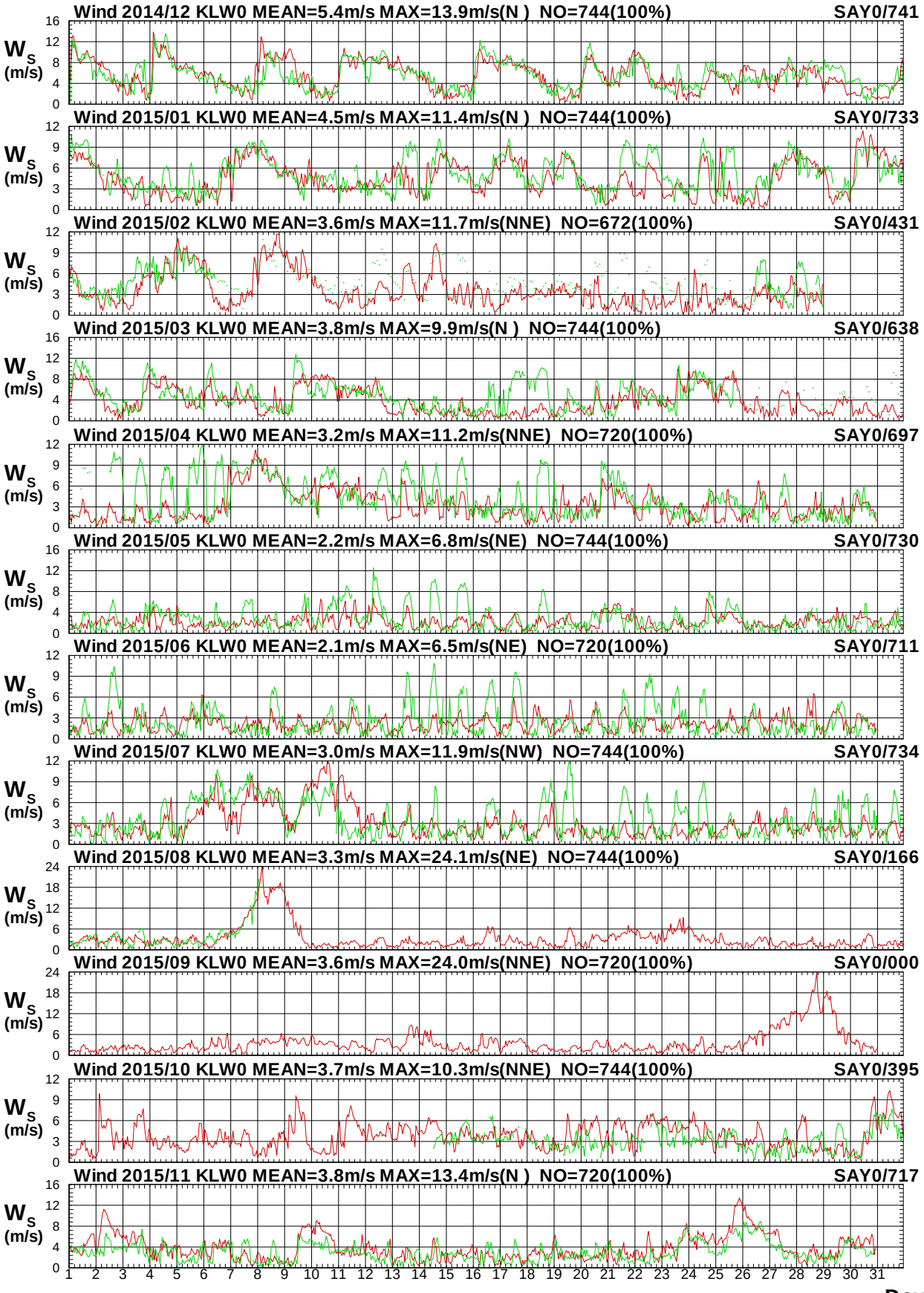

圖 2.18a　2015年每月北端海域 W 站與宜蘭海域 Y 站風速圖

Wind Direction in North Seas of KLW0 at 2015

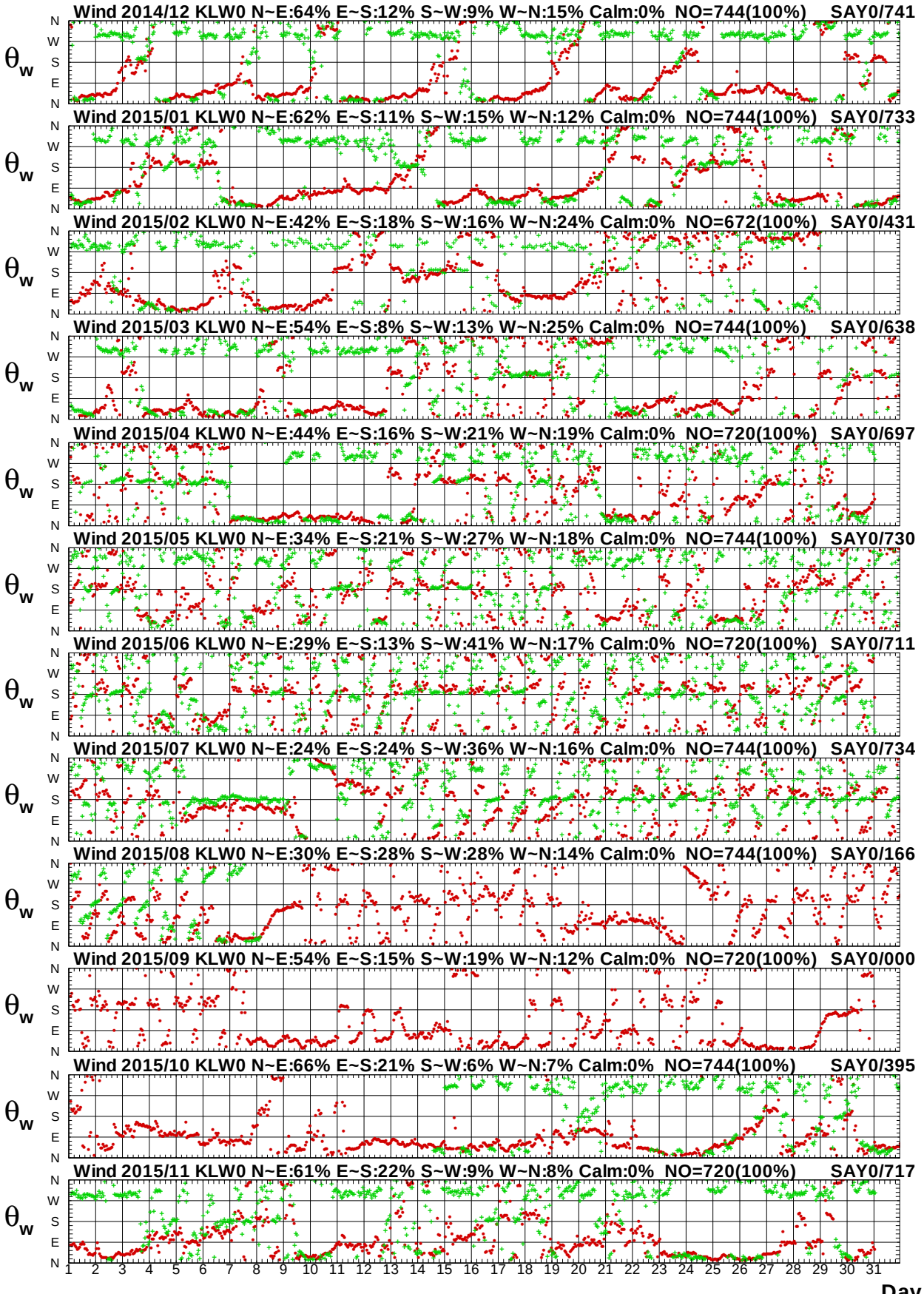

圖 2.18b　2015年每月北端海域 W 站與宜蘭海域 Y 站風向圖

Wind Speed in North Seas of KLW0 at 2015

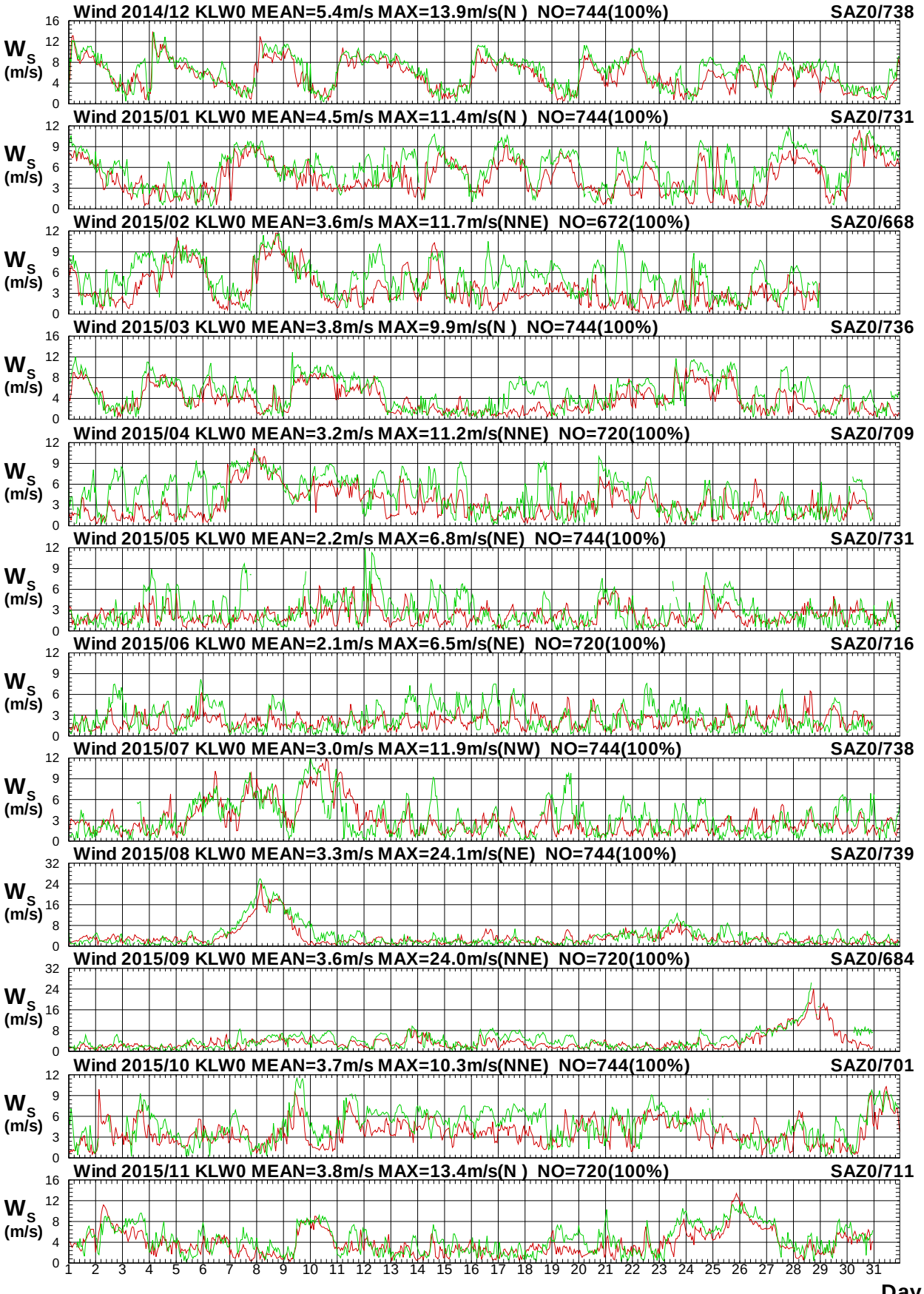

圖 2.19a　2015年每月北端海域 W 站與宜蘭海域 Z 站風速圖

Wind Direction in North Seas of KLW0 at 2015

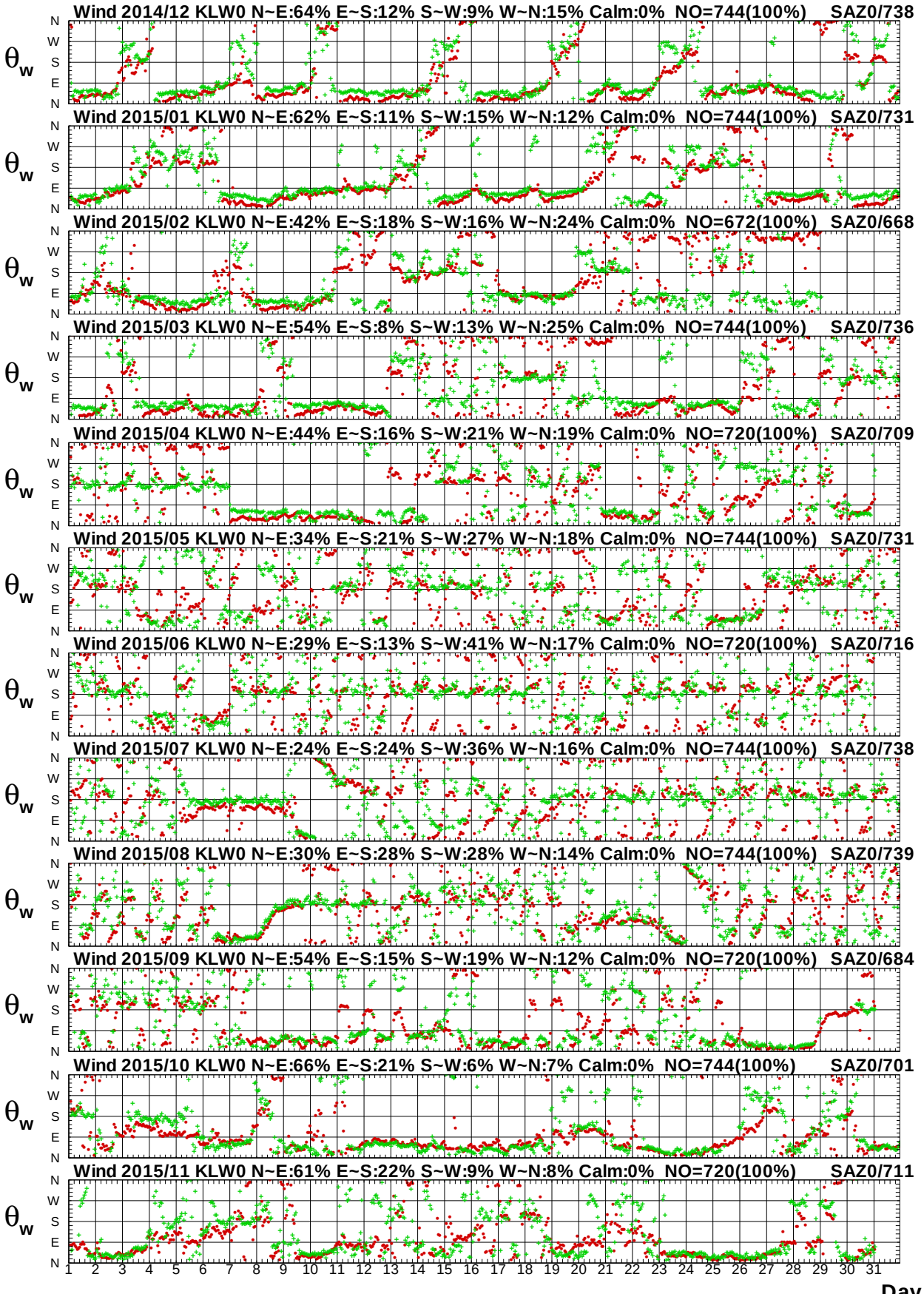

圖 2.19b　2015年每月北端海域 W 站與宜蘭海域 Z 站風向圖

Wind Speed in North Seas of KLW0 at 2015

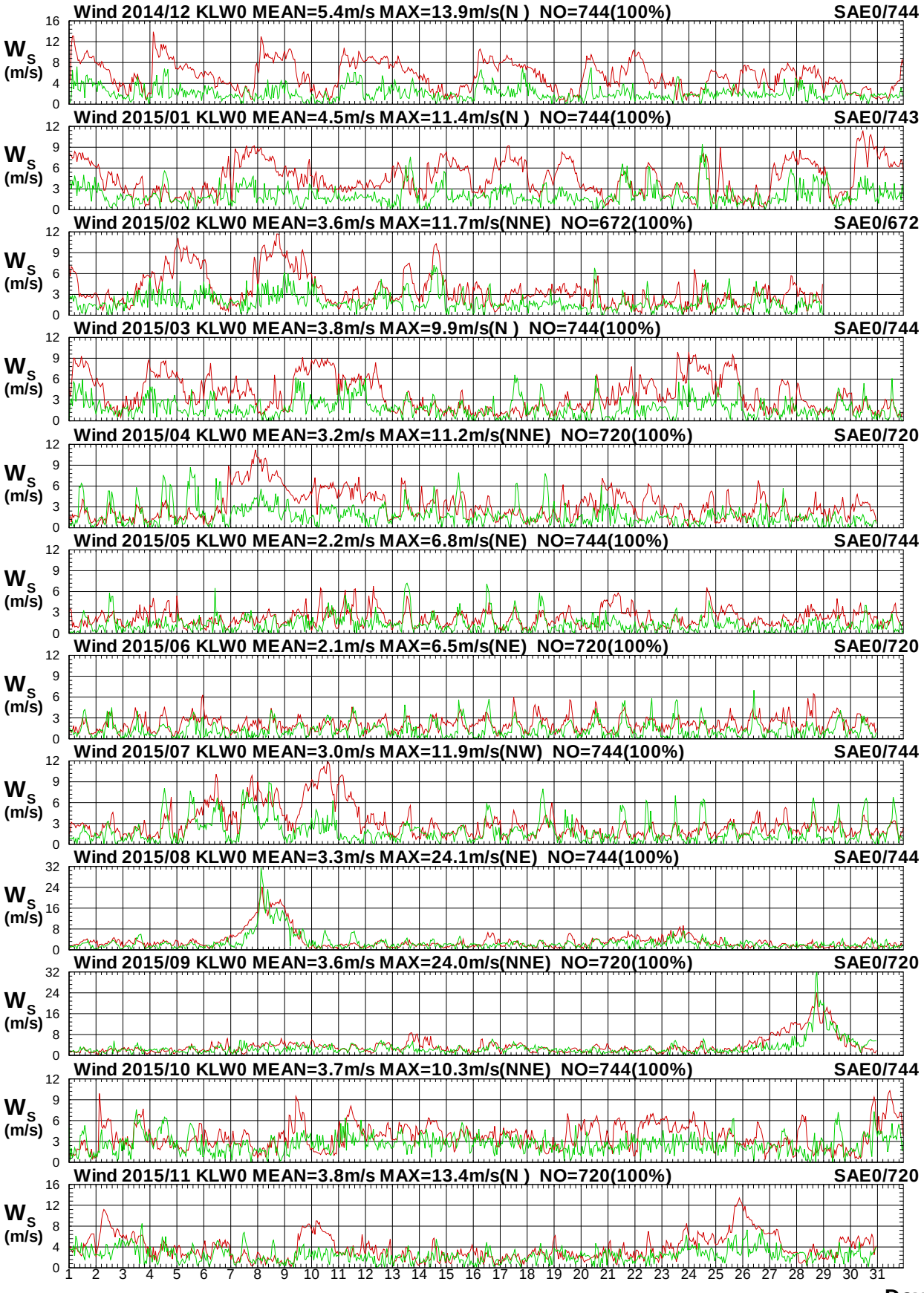

圖 2.20a　2015年每月北端海域 W 站與宜蘭海域 E 站風速圖

W14CKLW0.1HA W14CSAE0.1H0 W151KLW0.1HA W151SAE0.1H0 W152KLW0.1HA W152SAE0.1H0
W153KLW0.1HA W153SAE0.1H0 W154KLW0.1HA W154SAE0.1H0 W155KLW0.1HA W155SAE0.1H0

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Wind Direction in North Seas of KLW0 at 2015

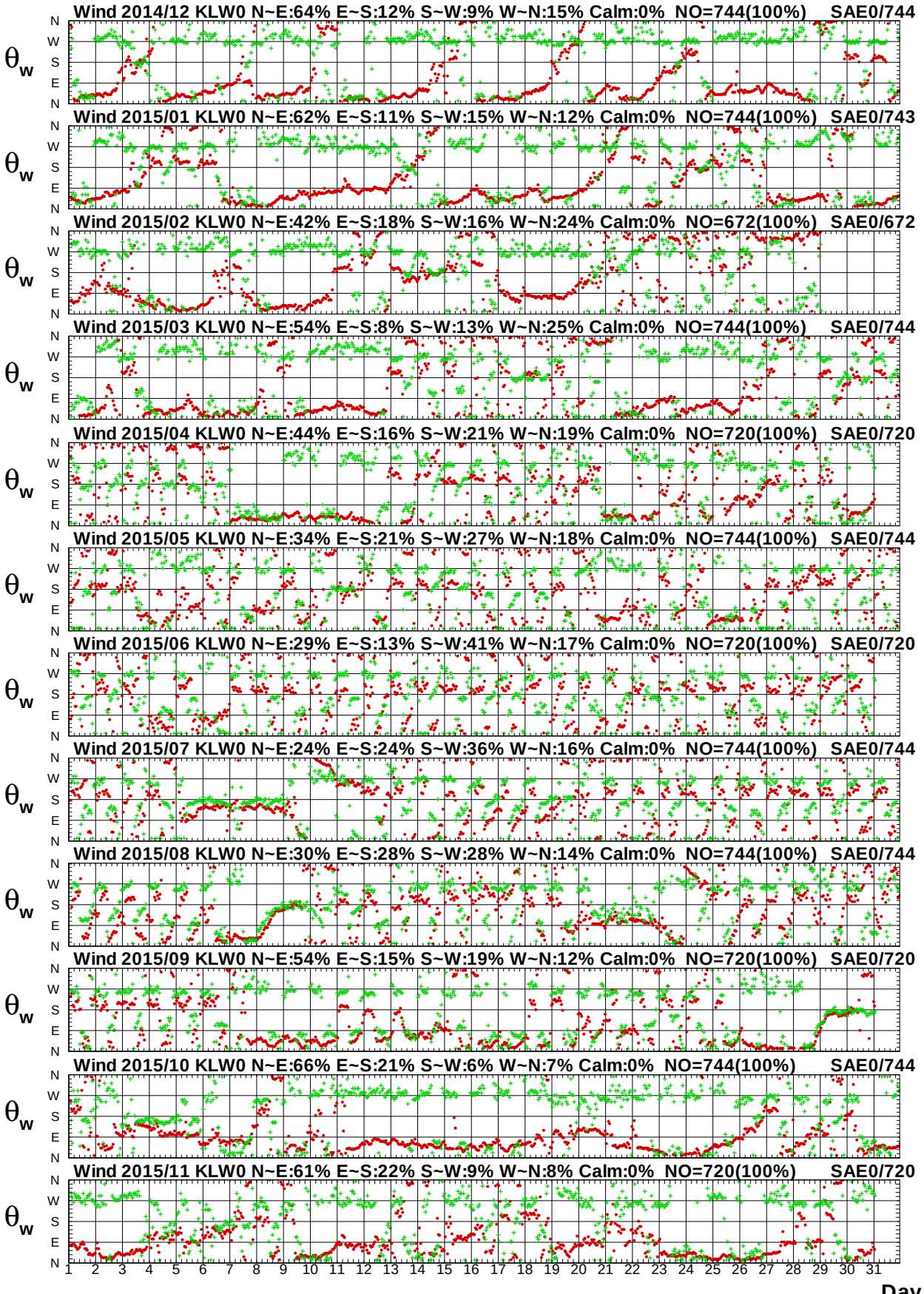

圖 2.20b　2015年每月北端海域 W 站與宜蘭海域 E 站風向圖

Wind Speed in North Seas of KLW0 at 2015

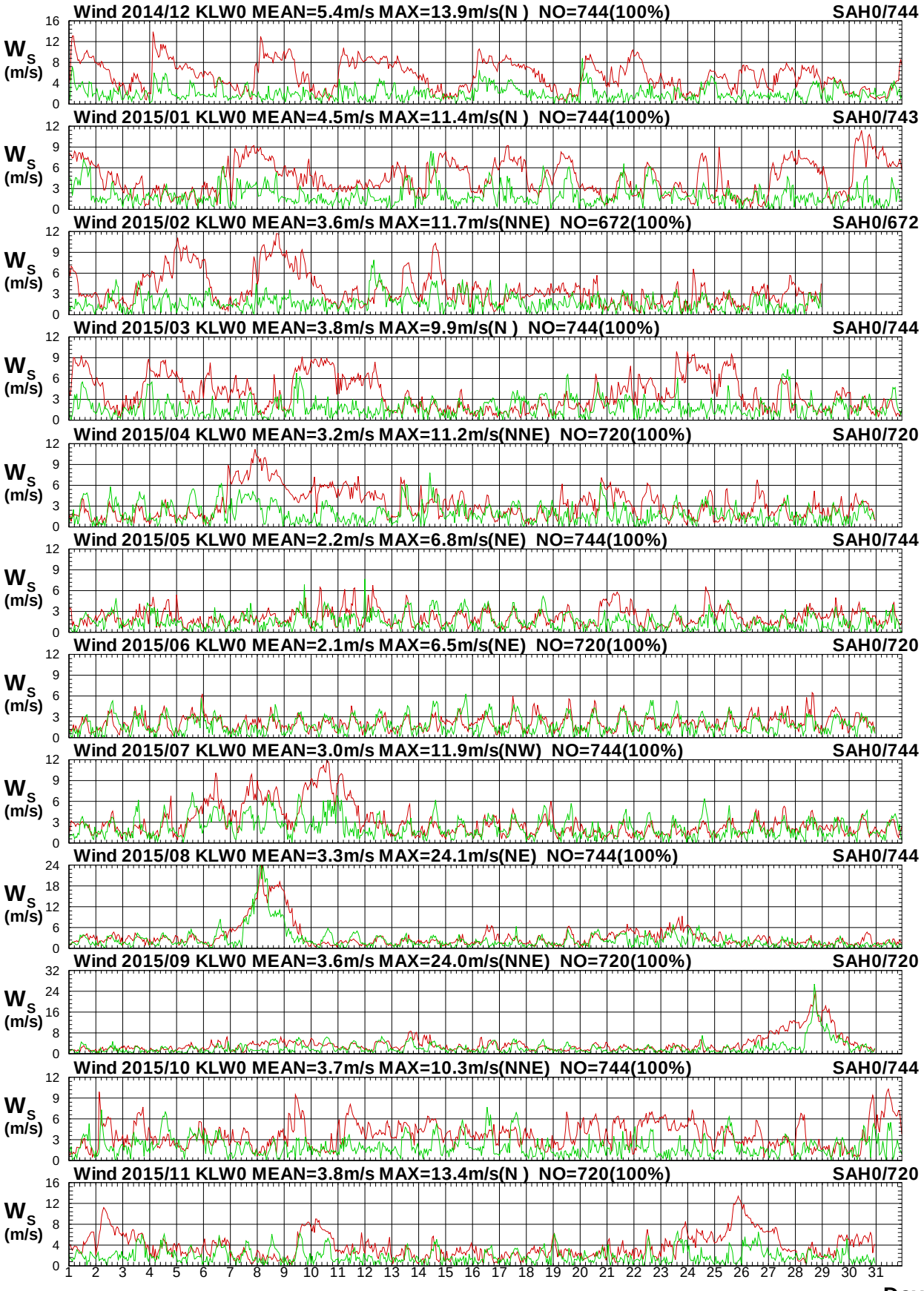

圖 2.21a　2015年每月北端海域 W 站與宜蘭海域 H 站風速圖

W14CKLW0.1HA W14CSAH0.1H0 W151KLW0.1HA W151SAH0.1H0 W152KLW0.1HA W152SAH0.1H0
W153KLW0.1HA W153SAH0.1H0 W154KLW0.1HA W154SAH0.1H0 W155KLW0.1HA W155SAH0.1H0

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Wind Direction in North Seas of KLW0 at 2015

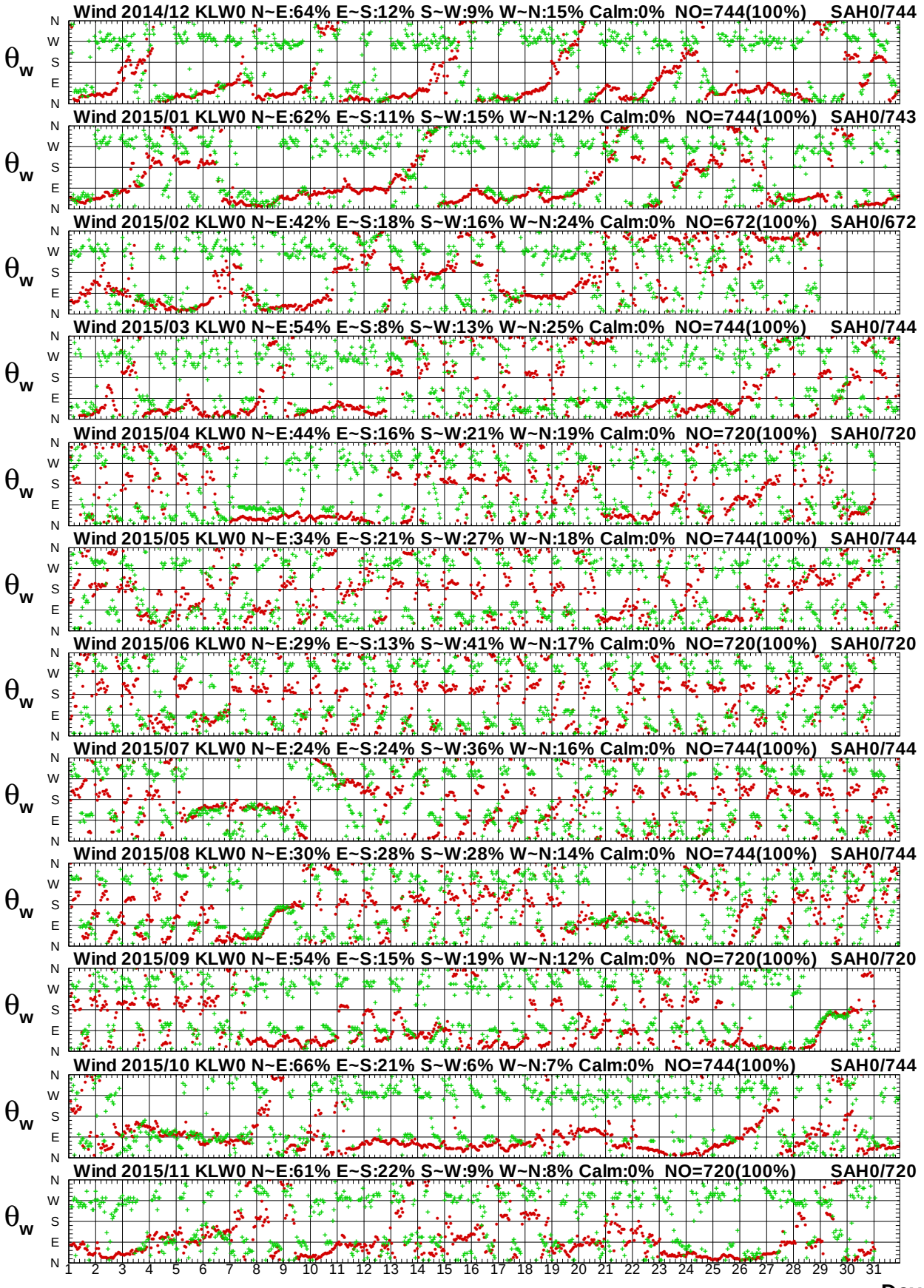

圖 2.21b　2015年每月北端海域 W 站與宜蘭海域 H 站風向圖

Wind Speed in North Seas of KLW0 at 2015

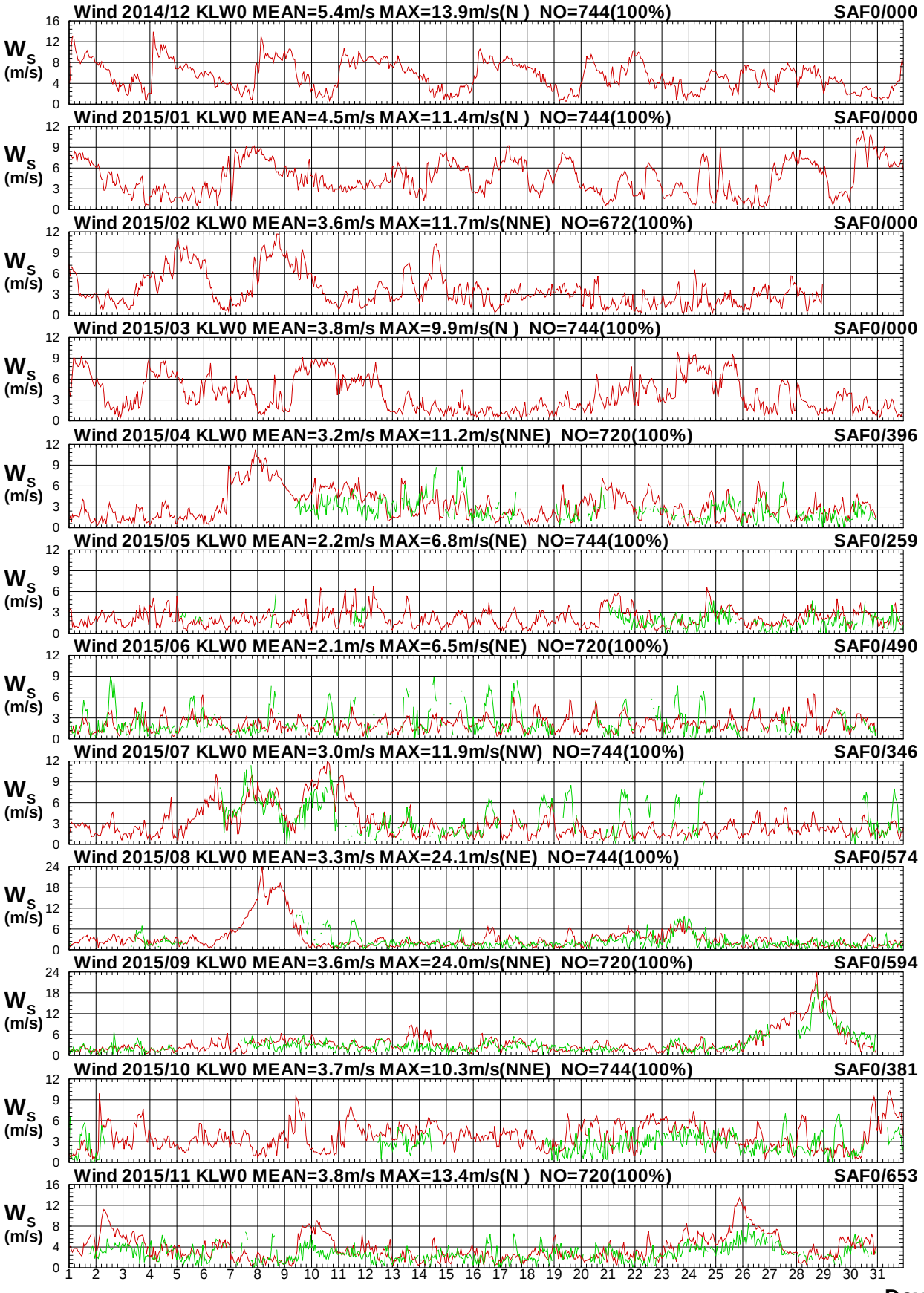

圖 2.22a　2015年每月北端海域 W 站與宜蘭海域 F 站風速圖

W14CKLW0.1HA W14CSAF0.1H0 W151KLW0.1HA W151SAF0.1H0 W152KLW0.1HA W152SAF0.1H0
W153KLW0.1HA W153SAF0.1H0 W154KLW0.1HA W154SAF0.1H0 W155KLW0.1HA W155SAF0.1H0

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Wind Direction in North Seas of KLW0 at 2015

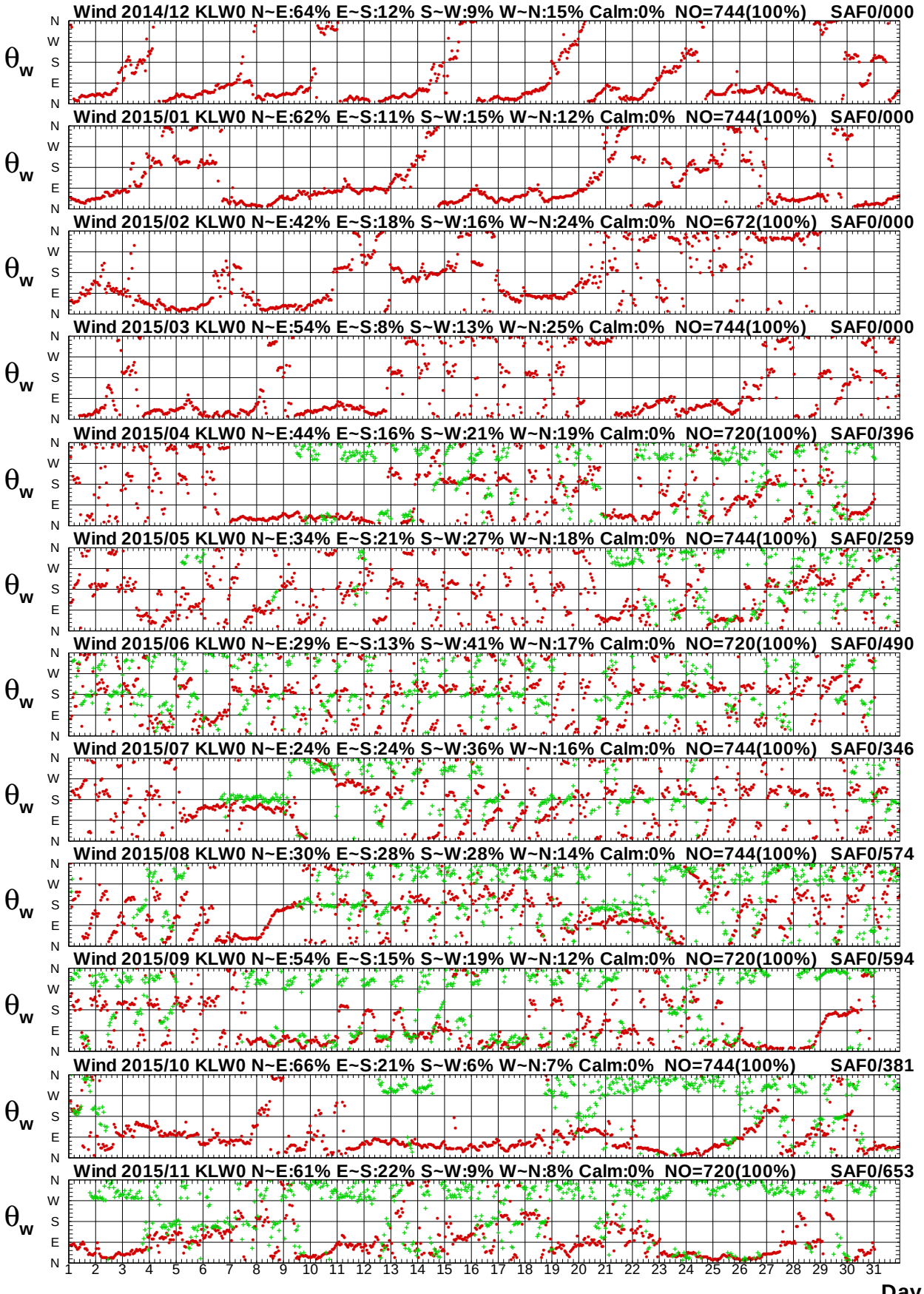

圖 2.22b　2015年每月北端海域 W 站與宜蘭海域 F 站風向圖

第三章　2015 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 3，2012 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 3。

本風力年報以取經檢核或修補後之 **W 站**資料作為**主要觀測站**，2015 年主要觀測站修補前(後)每月觀測之風資料記錄期間統計表，如表 3.1a，2015 年風力**次要觀測站**資料(未補餘)記錄統計表，如表 3.1b，**主要觀測站修補前後**每月風力歷線比較圖，如圖 3.1，**主要觀測站**與**次要觀測站**(或**其他觀測站**)每月風力歷線比較圖，如圖 3.2 以後。

表 3 宜蘭海域觀測風力資料蒐集概況表(統計時間至 2015 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	2003/06-2015/11(觀測中)	港研中心	蘇澳港區
E	24°35'48"N	121°51'26"E	1999/01-2015/11(觀測中)	中央氣象局	蘇澳
Y	24°37'38"N	121°52'36"E	1999/09-2015/11(觀測中)	水利署	蘇澳浮標站
Z	24°50'52"N	121°55'39"E	2002/05-2015/11(觀測中)	觀光局	龜山島浮標站
H	24°45'56"N	121°44'53"E	2013/11-2015/11(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	2015/04-2015/11(觀測中)	中央氣象局	蘇澳

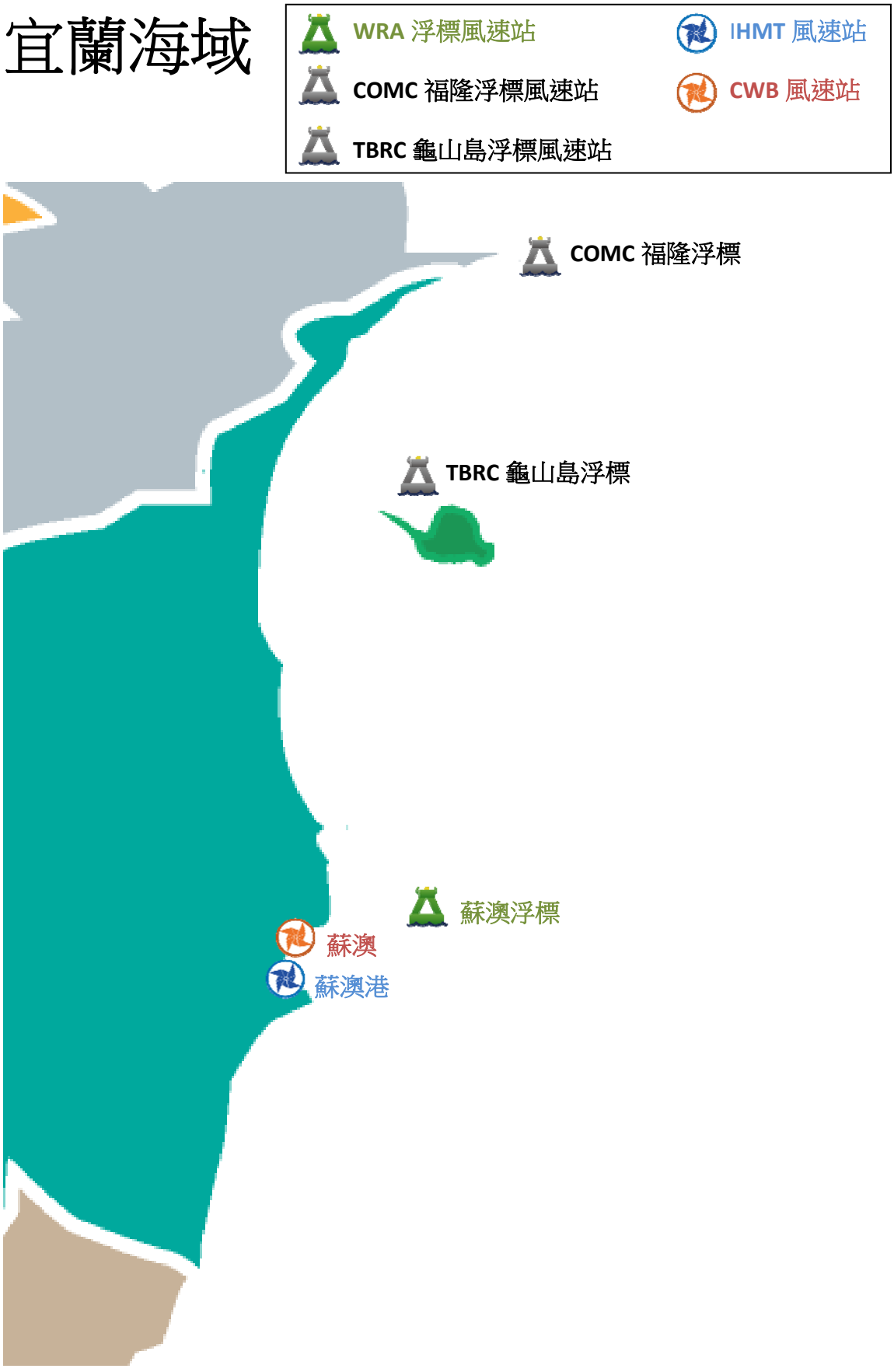

圖 3 宜蘭海域風力觀測站位置示意圖

表3.1a 2015年每月宜蘭海域修補前各測站觀測風力資料紀錄統計表

年/月 港區	宜蘭海域	宜蘭海域	宜蘭海域	宜蘭海域	宜蘭海域	宜蘭海域	宜蘭海域	宜蘭海域
測站	W	Y	Z	R	E	H	F	
2014/12月	744 (100%)	741 (99.6%)	738 (99.2%)	*	744 (100%)	744 (100%)	*	*
2015/ 1月	744 (100%)	733 (98.5%)	731 (98.3%)	*	743 (99.9%)	743 (99.9%)	*	*
2015/ 2月	672 (100%)	431 (64.1%)	668 (99.4%)	*	672 (100%)	672 (100%)	*	*
2015/ 3月	744 (100%)	638 (85.8%)	736 (98.9%)	*	744 (100%)	744 (100%)	*	*
2015/ 4月	720 (100%)	697 (96.8%)	709 (98.5%)	*	720 (100%)	720 (100%)	396 (55.0%)	*
2015/ 5月	744 (100%)	730 (98.1%)	731 (98.3%)	*	744 (100%)	744 (100%)	259 (34.8%)	*
2015/ 6月	720 (100%)	711 (98.8%)	716 (99.4%)	*	720 (100%)	720 (100%)	490 (68.1%)	*
2015/ 7月	744 (100%)	734 (98.7%)	738 (99.2%)	*	744 (100%)	744 (100%)	346 (46.5%)	*
2015/ 8月	744 (100%)	166 (22.3%)	739 (99.3%)	*	744 (100%)	744 (100%)	574 (77.2%)	*
2015/ 9月	720 (100%)	*	684 (95.0%)	*	720 (100%)	720 (100%)	594 (82.5%)	*
2015/10月	744 (100%)	395 (53.1%)	701 (94.2%)	*	744 (100%)	744 (100%)	381 (51.2%)	*
2015/11月	720 (100%)	717 (99.6%)	711 (98.8%)	*	720 (100%)	720 (100%)	653 (90.7%)	*
2015/冬季	2160 (100%)	1905 (88.2%)	2137 (98.9%)	*	2159 (100.0%)	2159 (100.0%)	*	*
2015/春季	2208 (100%)	2065 (93.5%)	2176 (98.6%)	*	2208 (100%)	2208 (100%)	655 (29.7%)	*
2015/夏季	2208 (100%)	1611 (73.0%)	2193 (99.3%)	*	2208 (100%)	2208 (100%)	1410 (63.9%)	*
2015/秋季	2184 (100%)	1112 (50.9%)	2096 (96.0%)	*	2184 (100%)	2184 (100%)	1628 (74.5%)	*
2015/整年	8760 (100%)	6693 (76.4%)	8602 (98.2%)	*	8759 (100.0%)	8759 (100.0%)	3693 (42.2%)	*
起始年月	2014/12	2014/12	2014/12	*	2014/12	2014/12	2015/04	*
結束年月	2015/11	2015/11	2015/11	*	2015/11	2015/11	2015/11	*

表3.1b 2015年每月宜蘭海域修補後各測站風力資料統計表

年/月 港區	宜蘭海域	宜蘭海域	宜蘭海域	宜蘭海域	宜蘭海域	宜蘭海域	宜蘭海域	宜蘭海域
測站	W	Y	Z	R	E	H	F	
2014/12月	744 (100%)	744 (100%)	744 (100%)	*	744 (100%)	744 (100%)	*	*
2015/ 1月	744 (100%)	744 (100%)	744 (100%)	*	744 (100%)	744 (100%)	*	*
2015/ 2月	672 (100%)	672 (100%)	672 (100%)	*	672 (100%)	672 (100%)	*	*
2015/ 3月	744 (100%)	744 (100%)	744 (100%)	*	744 (100%)	744 (100%)	*	*
2015/ 4月	720 (100%)	720 (100%)	720 (100%)	*	720 (100%)	720 (100%)	*	*
2015/ 5月	744 (100%)	744 (100%)	744 (100%)	*	744 (100%)	744 (100%)	*	*
2015/ 6月	720 (100%)	720 (100%)	720 (100%)	*	720 (100%)	720 (100%)	*	*
2015/ 7月	744 (100%)	744 (100%)	744 (100%)	*	744 (100%)	744 (100%)	*	*
2015/ 8月	744 (100%)	744 (100%)	744 (100%)	*	744 (100%)	744 (100%)	*	*
2015/ 9月	720 (100%)	720 (100%)	720 (100%)	*	720 (100%)	720 (100%)	*	*
2015/10月	744 (100%)	744 (100%)	744 (100%)	*	744 (100%)	744 (100%)	*	*
2015/11月	720 (100%)	720 (100%)	720 (100%)	*	720 (100%)	720 (100%)	*	*
2015/冬季	2160 (100%)	2160 (100%)	2160 (100%)	*	2160 (100%)	2160 (100%)	*	*
2015/春季	2208 (100%)	2208 (100%)	2208 (100%)	*	2208 (100%)	2208 (100%)	*	*
2015/夏季	2208 (100%)	2208 (100%)	2208 (100%)	*	2208 (100%)	2208 (100%)	*	*
2015/秋季	2184 (100%)	2184 (100%)	2184 (100%)	*	2184 (100%)	2184 (100%)	*	*
2015/整年	8760 (100%)	8760 (100%)	8760 (100%)	*	8760 (100%)	8760 (100%)	*	*
起始年月	2014/12	2014/12	2014/12	*	2014/12	2014/12	*	*
結束年月	2015/11	2015/11	2015/11	*	2015/11	2015/11	*	*

Wind Speed in Yi-Lan Seas of SAW0 at 2015

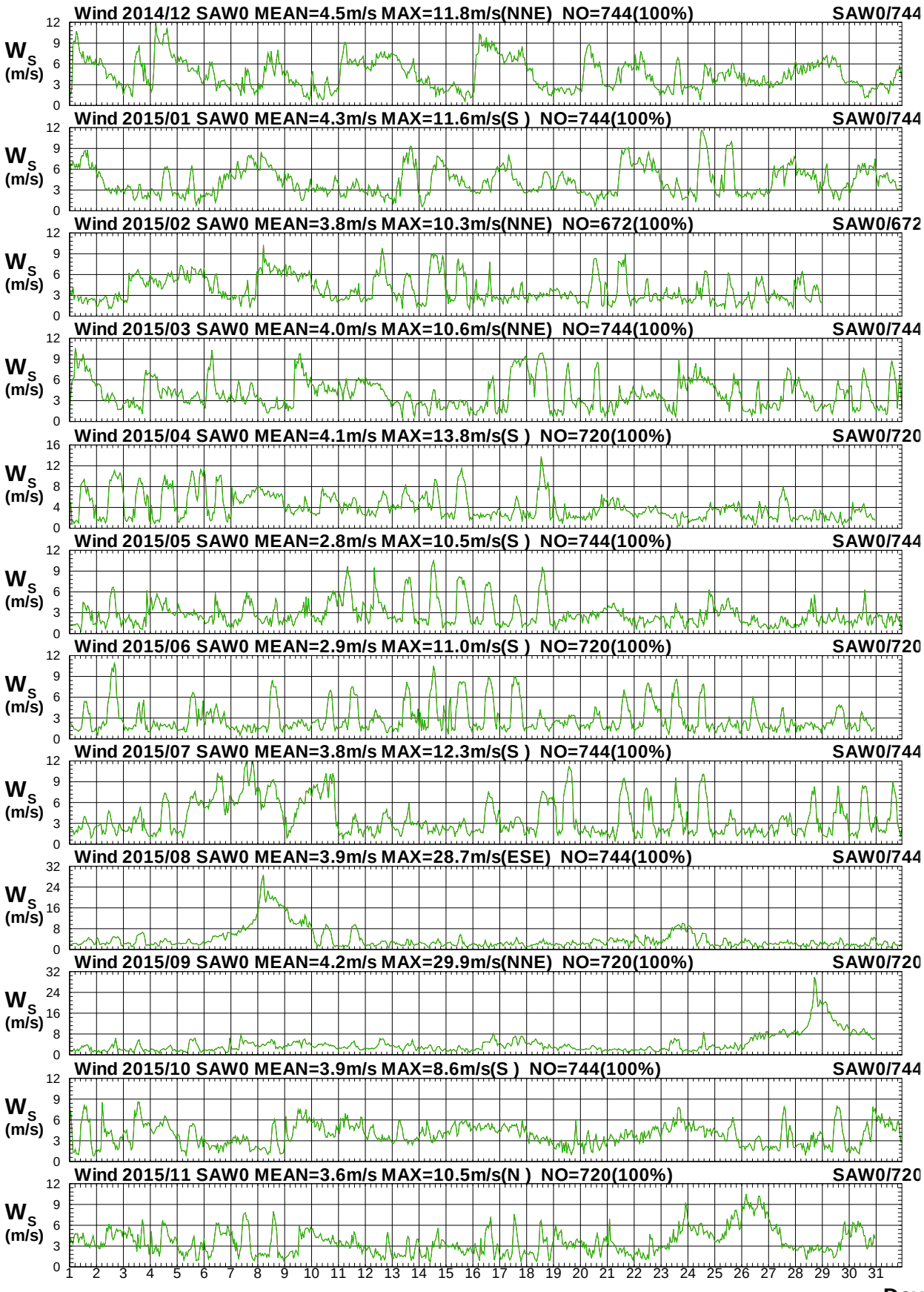

圖 3.1a　2015年每月宜蘭海域 W 站修補前後之風速比較圖

W14CSAW0.1HA W14CSAW0.1H0 W151SAW0.1HA W151SAW0.1H0 W152SAW0.1HA W152SAW0.1H0
W153SAW0.1HA W153SAW0.1H0 W154SAW0.1HA W154SAW0.1H0 W155SAW0.1HA W155SAW0.1H0

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Wind Direction in Yi-Lan Seas of SAW0 at 2015

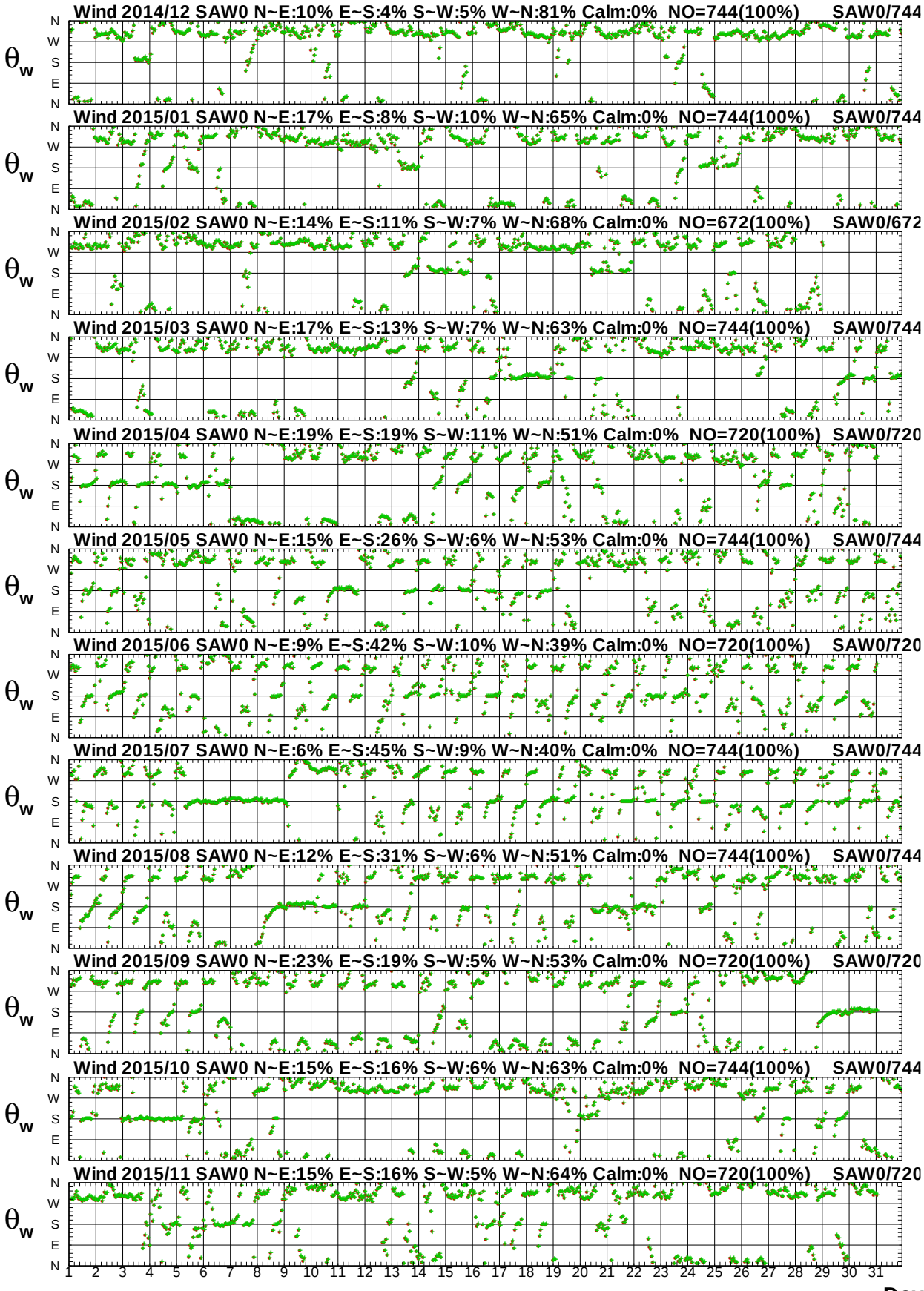

圖 3.1b　2015年每月宜蘭海域 W 站修補前後之風向比較圖

Wind Speed in Yi-Lan Seas of SAW0 at 2015

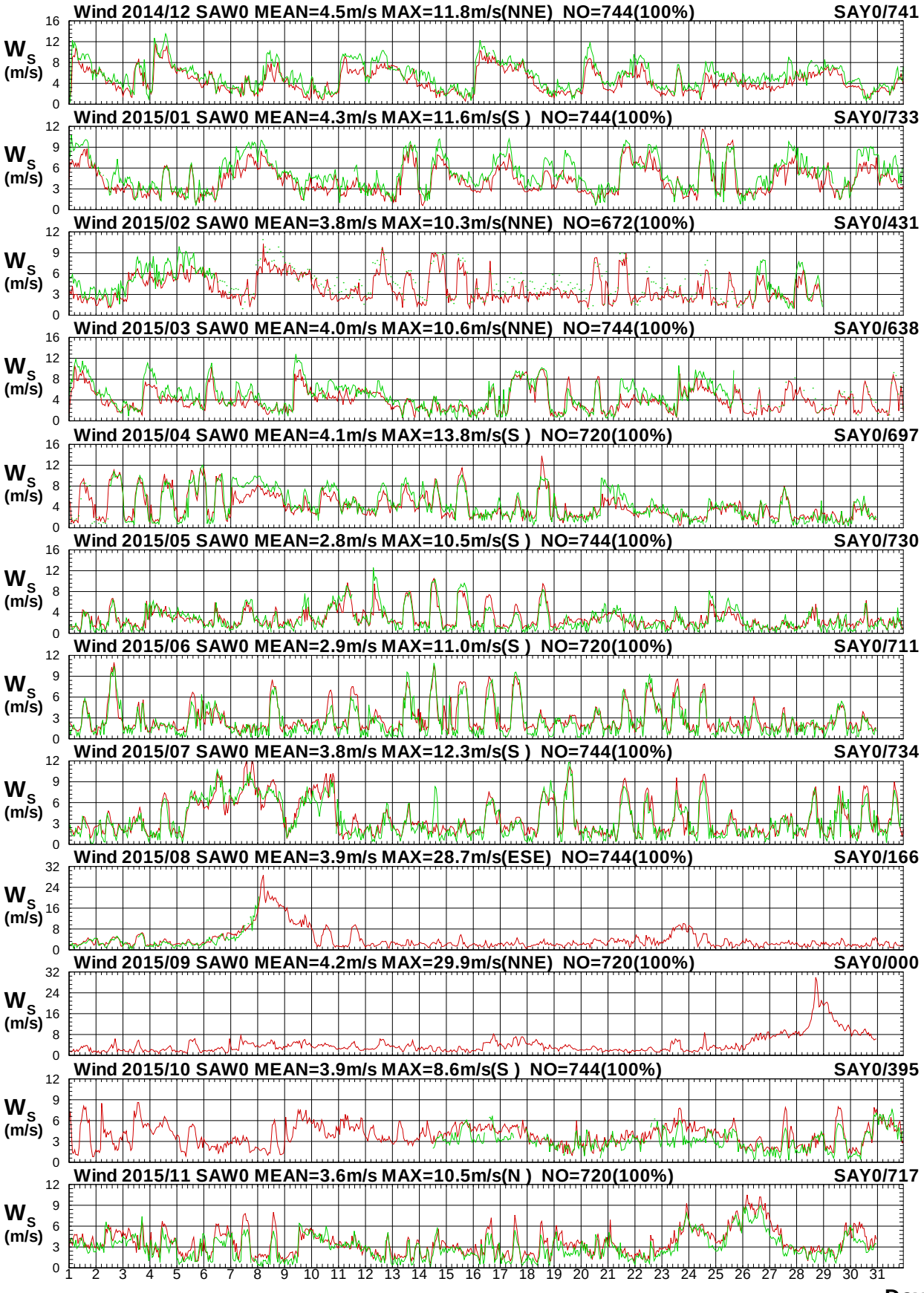

圖3.2a　2015年每月宜蘭海域 W 站與 Y 站風速比較圖

W14CSAW0.1HA W14CSAY0.1H0 W151SAW0.1HA W151SAY0.1H0 W152SAW0.1HA W152SAY0.1H0
W153SAW0.1HA W153SAY0.1H0 W154SAW0.1HA W154SAY0.1H0 W155SAW0.1HA W155SAY0.1H0

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Wind Direction in Yi-Lan Seas of SAW0 at 2015

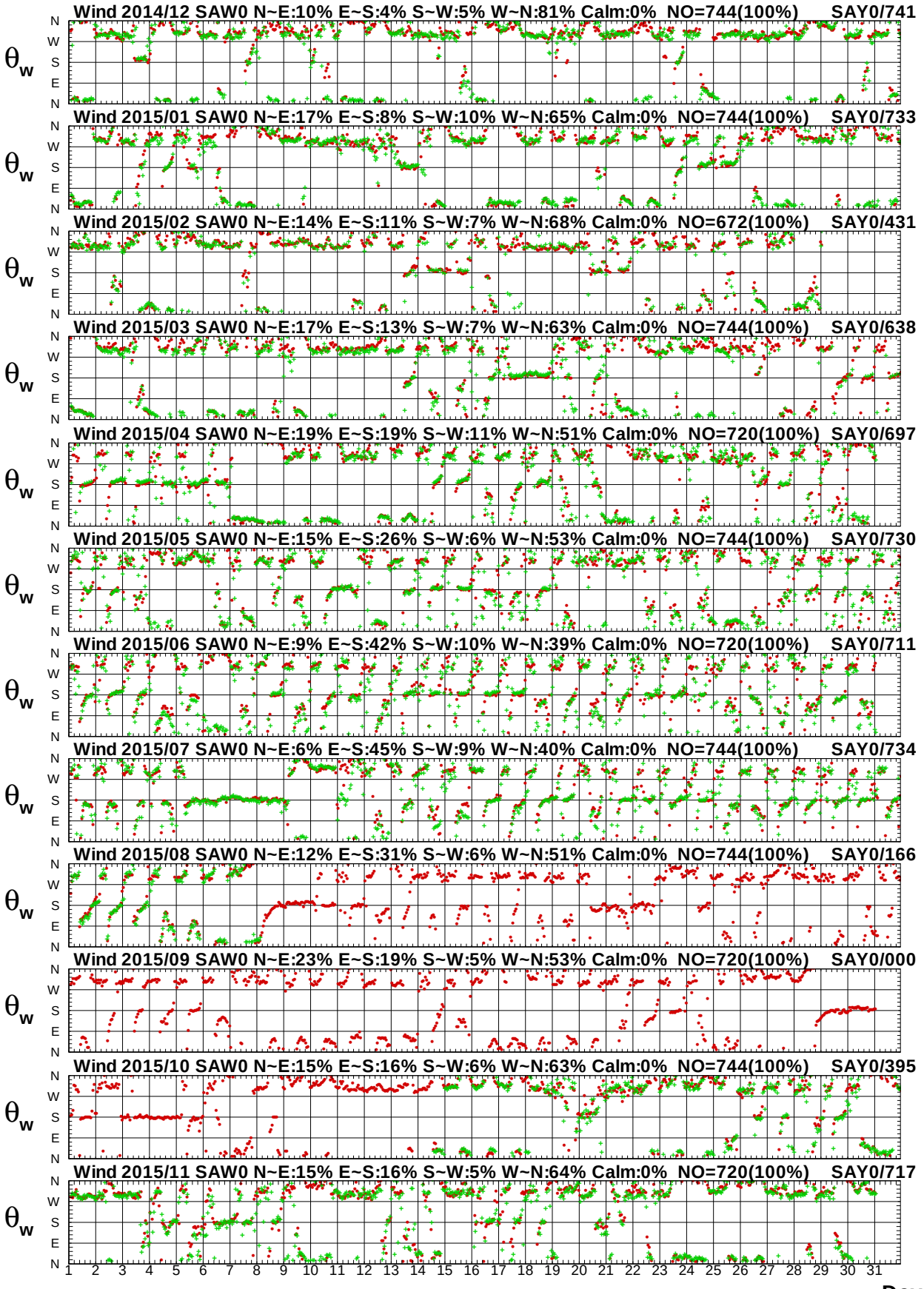

圖3.2b　2015年每月宜蘭海域 W 站與 Y 站風向比較圖

Wind Speed in Yi-Lan Seas of SAW0 at 2015

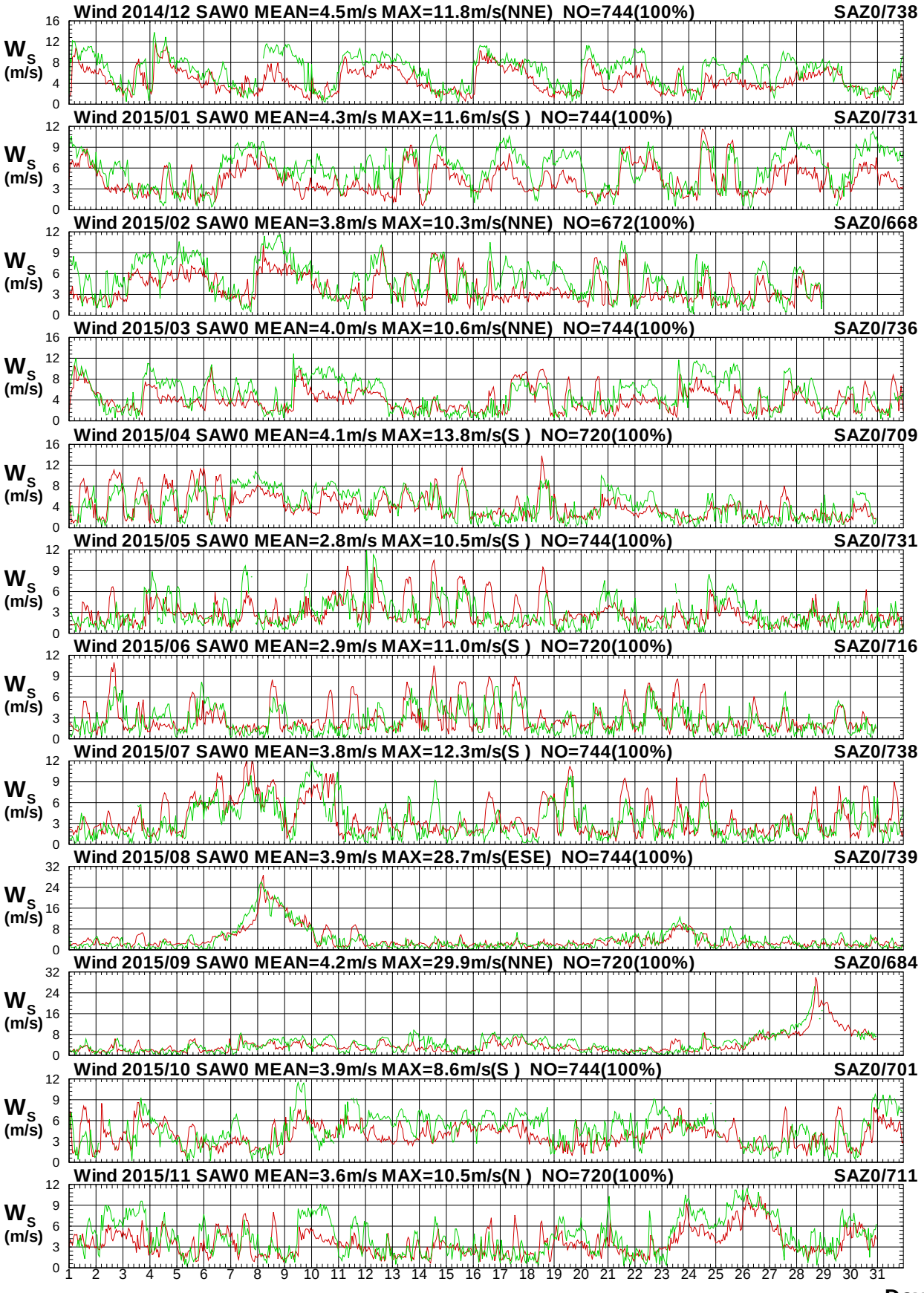

圖3.3a　2015年每月宜蘭海域 W 站與 Z 站風速比較圖

W14CSAW0.1HA W14CSAZ0.1H0 W151SAW0.1HA W151SAZ0.1H0 W152SAW0.1HA W152SAZ0.1H0
W153SAW0.1HA W153SAZ0.1H0 W154SAW0.1HA W154SAZ0.1H0 W155SAW0.1HA W155SAZ0.1H0

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Wind Direction in Yi-Lan Seas of SAW0 at 2015

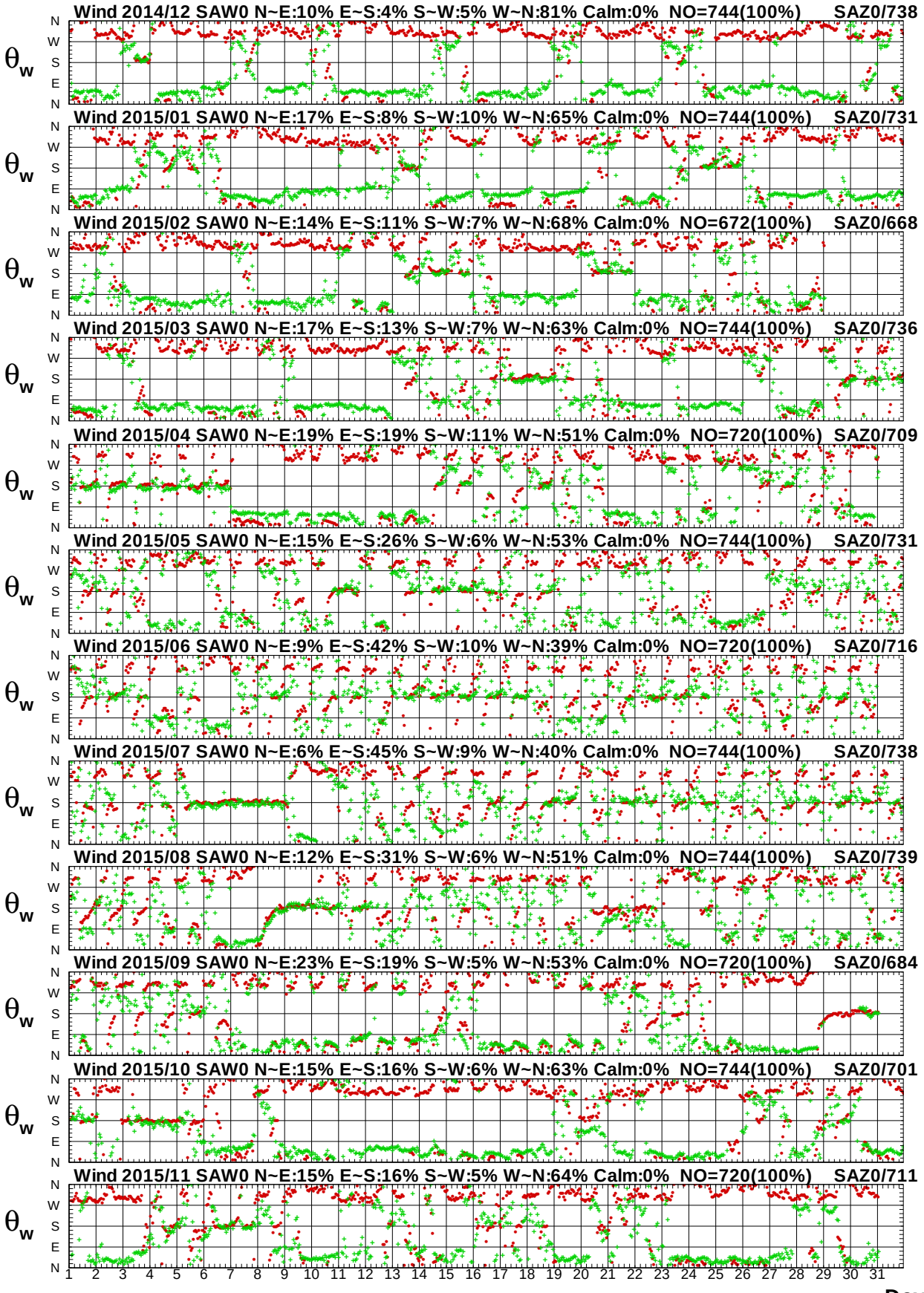

圖 3.3b　2015年每月宜蘭海域 W 站與 Z 站風向比較圖

Wind Speed in Yi-Lan Seas of SAW0 at 2015

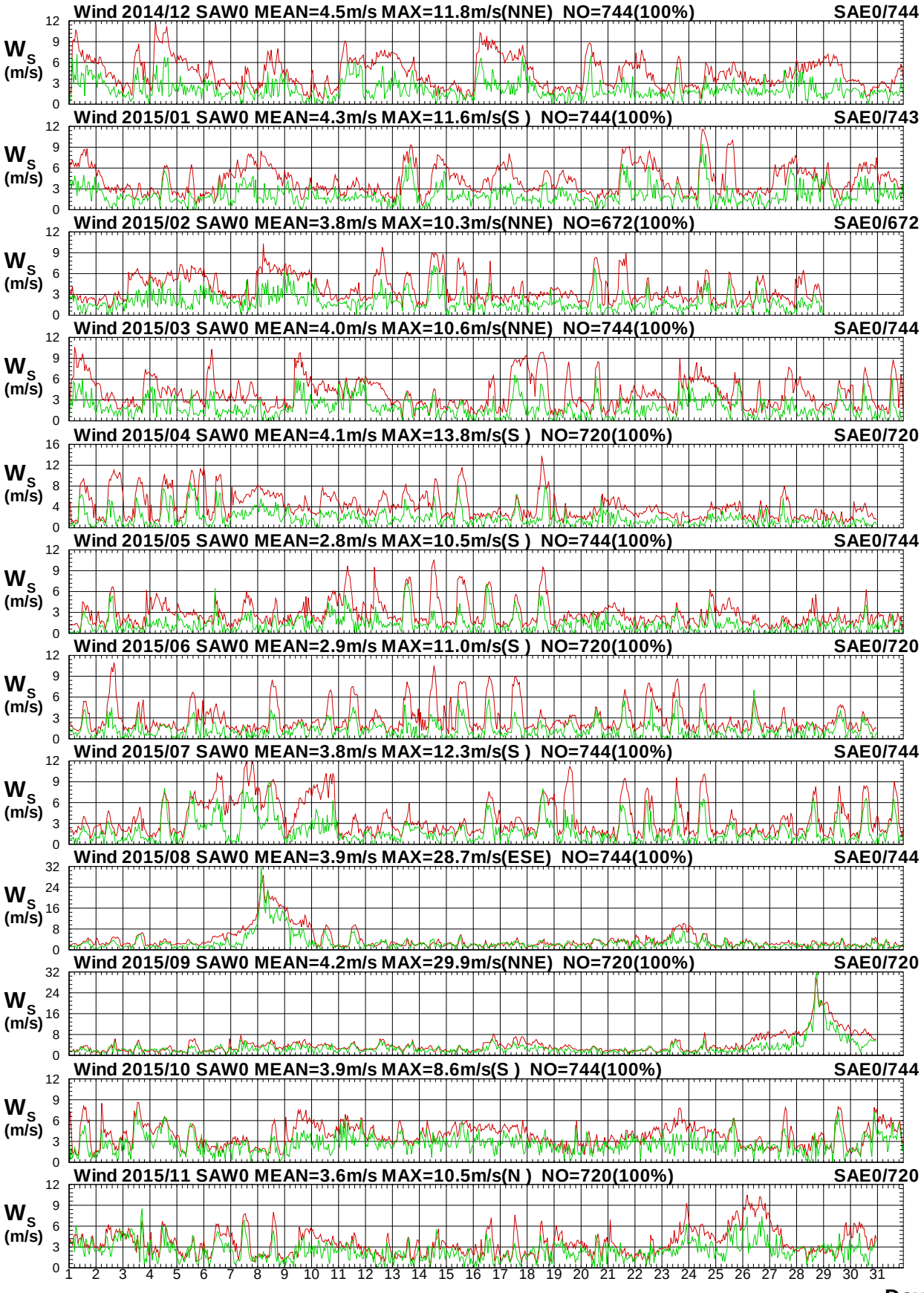

圖3.4a　2015年每月宜蘭海域 W 站與 E 站風速比較圖

W14CSAW0.1HA W14CSAE0.1H0 W151SAW0.1HA W151SAE0.1H0 W152SAW0.1HA W152SAE0.1H0
W153SAW0.1HA W153SAE0.1H0 W154SAW0.1HA W154SAE0.1H0 W155SAW0.1HA W155SAE0.1H0

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Wind Direction in Yi-Lan Seas of SAW0 at 2015

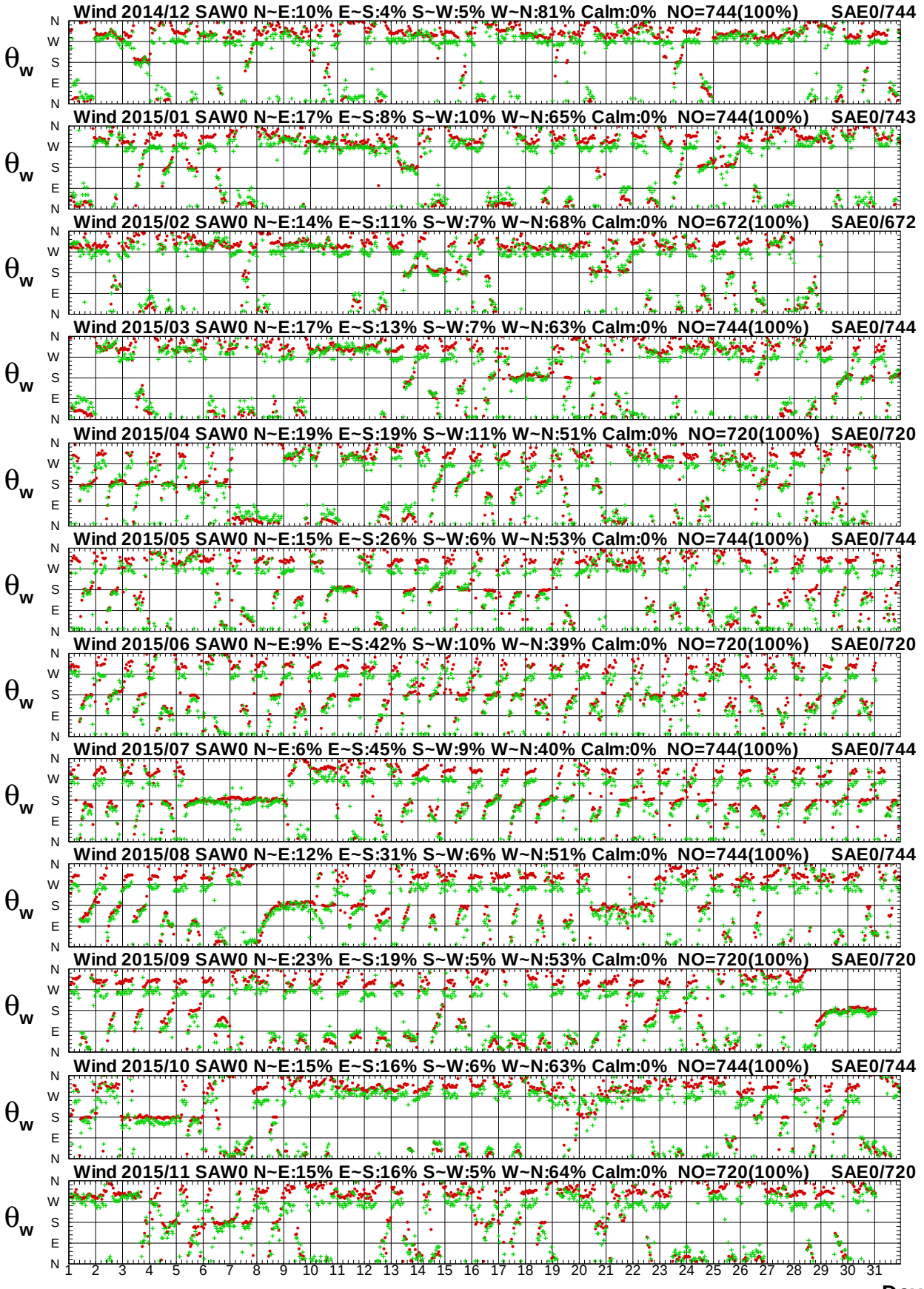

圖3.4b　2015年每月宜蘭海域 W 站與 E 站風向比較圖

Wind Speed in Yi-Lan Seas of SAW0 at 2015

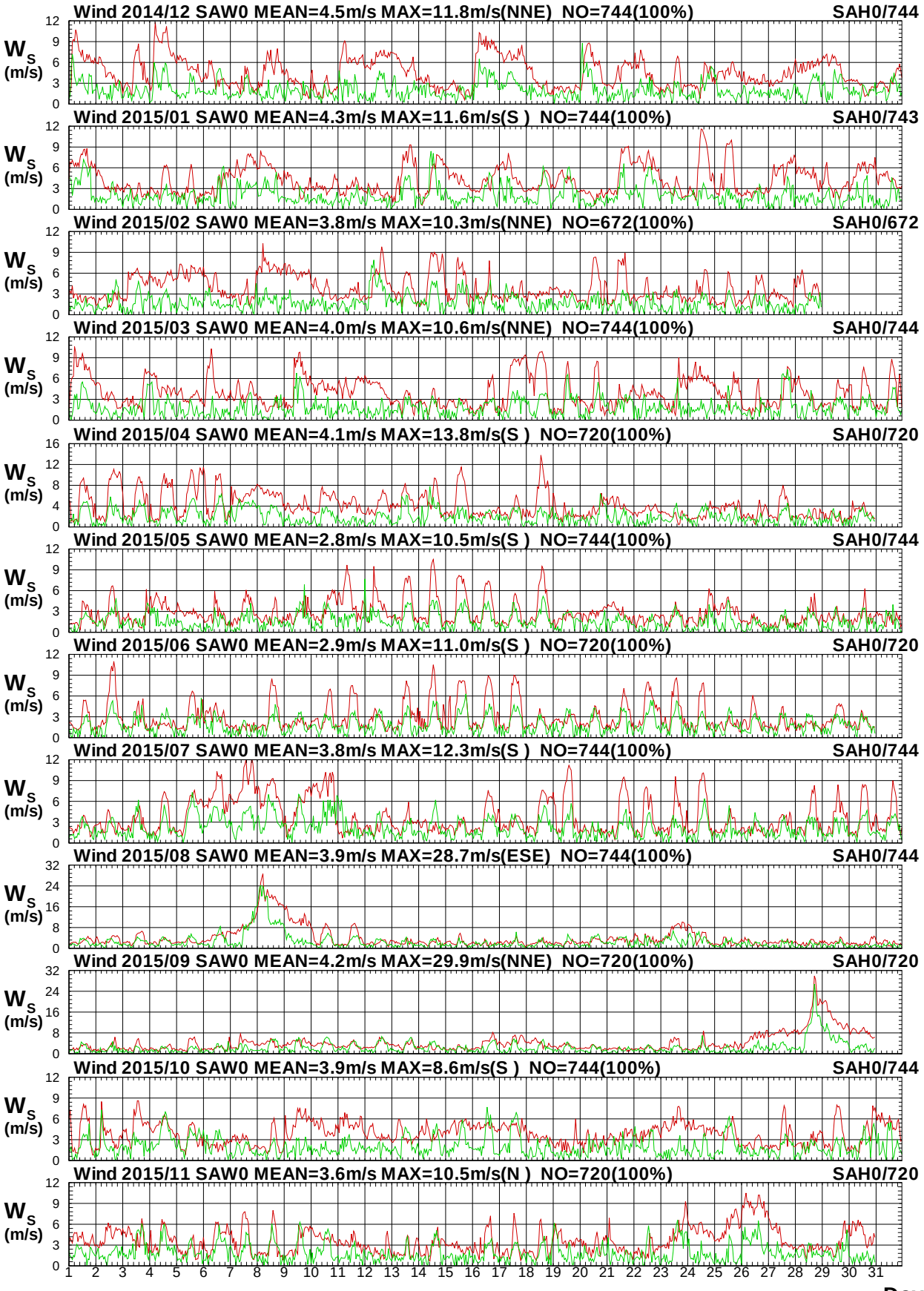

圖3.5a　2015年每月宜蘭海域 W 站與 H 站風速比較圖

W14CSAW0.1HA W14CSAH0.1H0 W151SAW0.1HA W151SAH0.1H0 W152SAW0.1HA W152SAH0.1H0
W153SAW0.1HA W153SAH0.1H0 W154SAW0.1HA W154SAH0.1H0 W155SAW0.1HA W155SAH0.1H0

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Wind Direction in Yi-Lan Seas of SAW0 at 2015

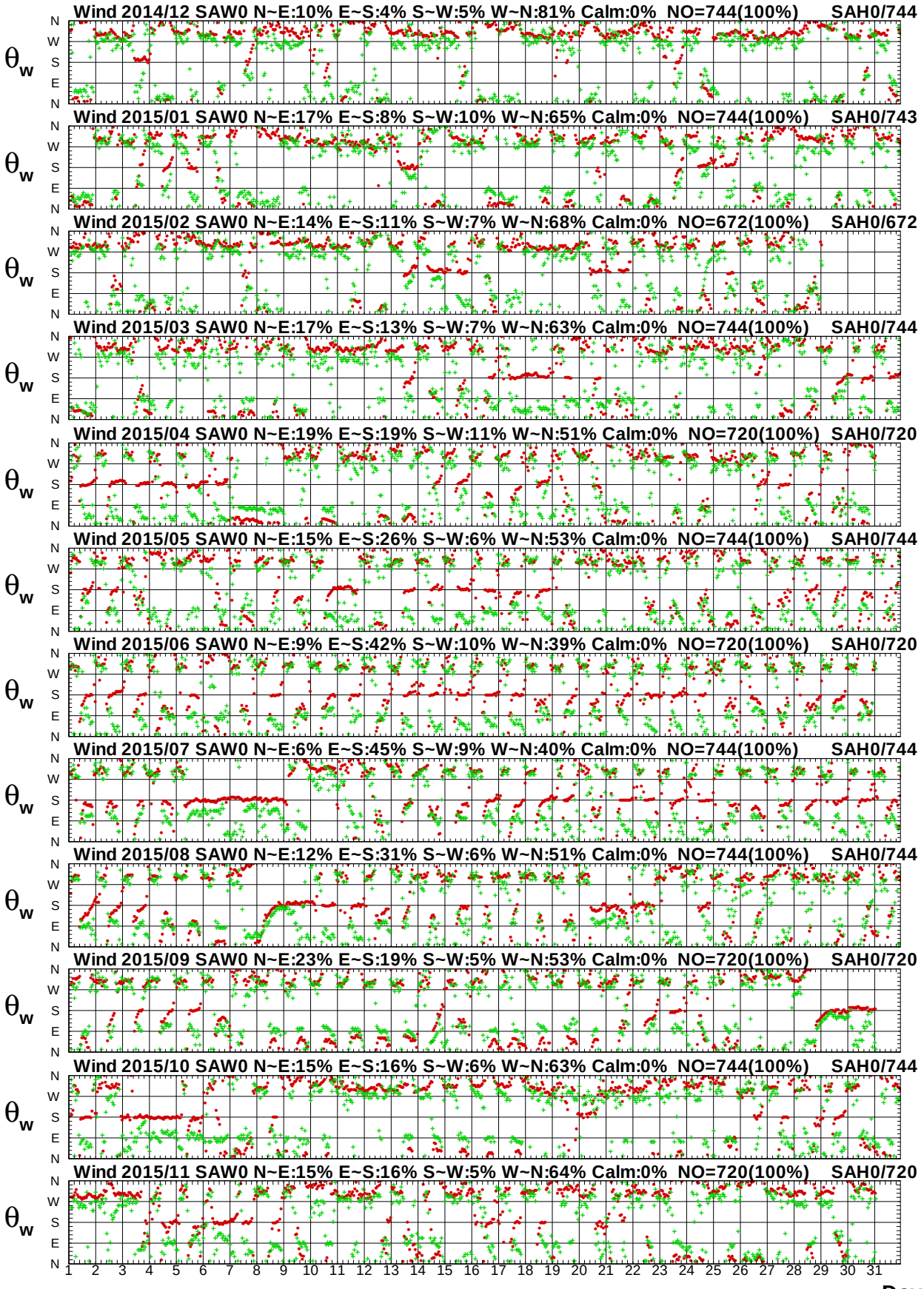

圖3.5b　2015年每月宜蘭海域 W 站與 H 站風向比較圖

W14CSAW0.1HA W14CSAH0.1H0 W151SAW0.1HA W151SAH0.1H0 W152SAW0.1HA W152SAH0.1H0
W153SAW0.1HA W153SAH0.1H0 W154SAW0.1HA W154SAH0.1H0 W155SAW0.1HA W155SAH0.1H0

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Wind Speed in Yi-Lan Seas of SAW0 at 2015

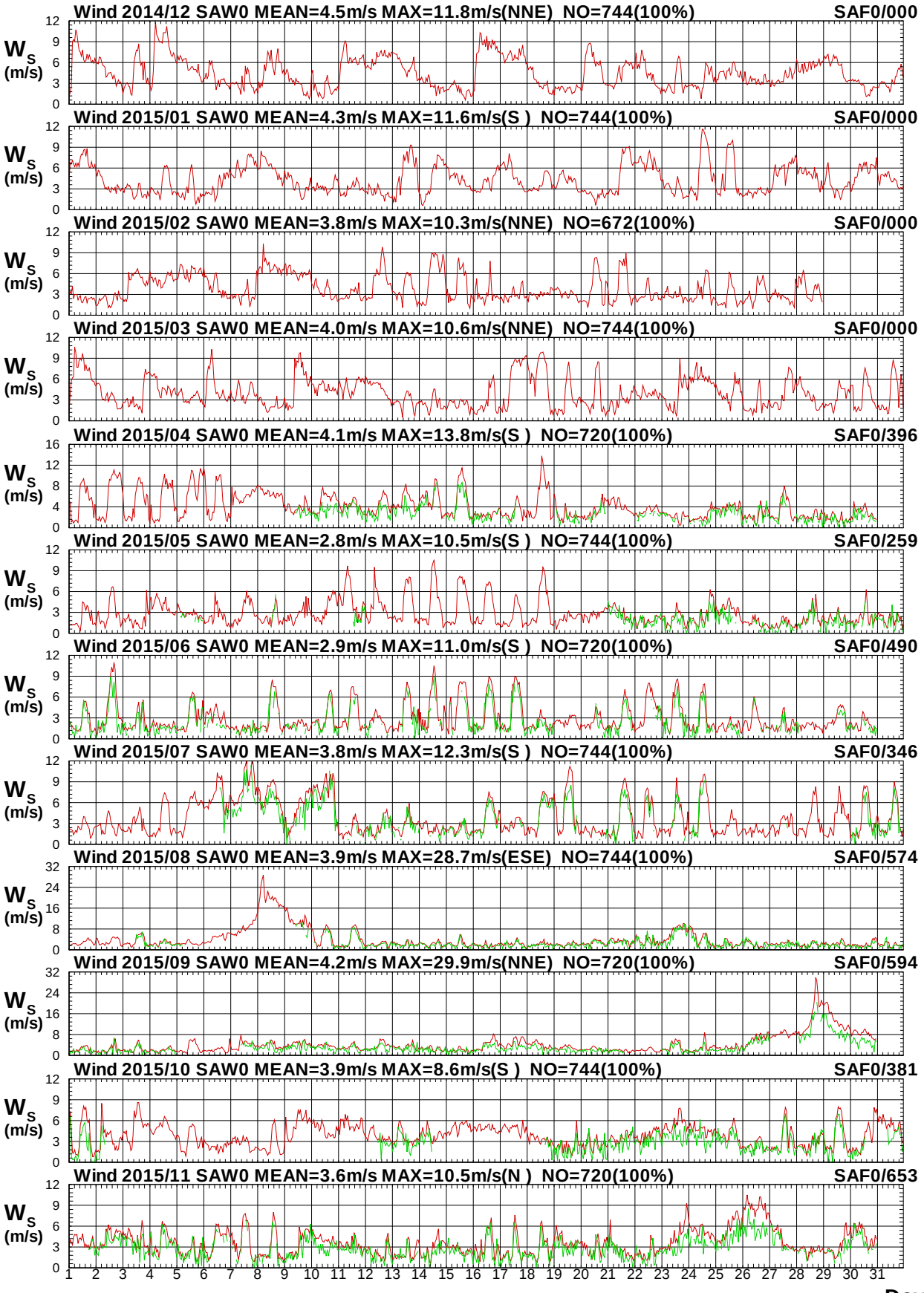

圖3.6a　2015年每月宜蘭海域 W 站與 F 站風速比較圖

W14CSAW0.1HA W14CSAF0.1H0 W151SAW0.1HA W151SAF0.1H0 W152SAW0.1HA W152SAF0.1H0
W153SAW0.1HA W153SAF0.1H0 W154SAW0.1HA W154SAF0.1H0 W155SAW0.1HA W155SAF0.1H0

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Wind Direction in Yi-Lan Seas of SAW0 at 2015

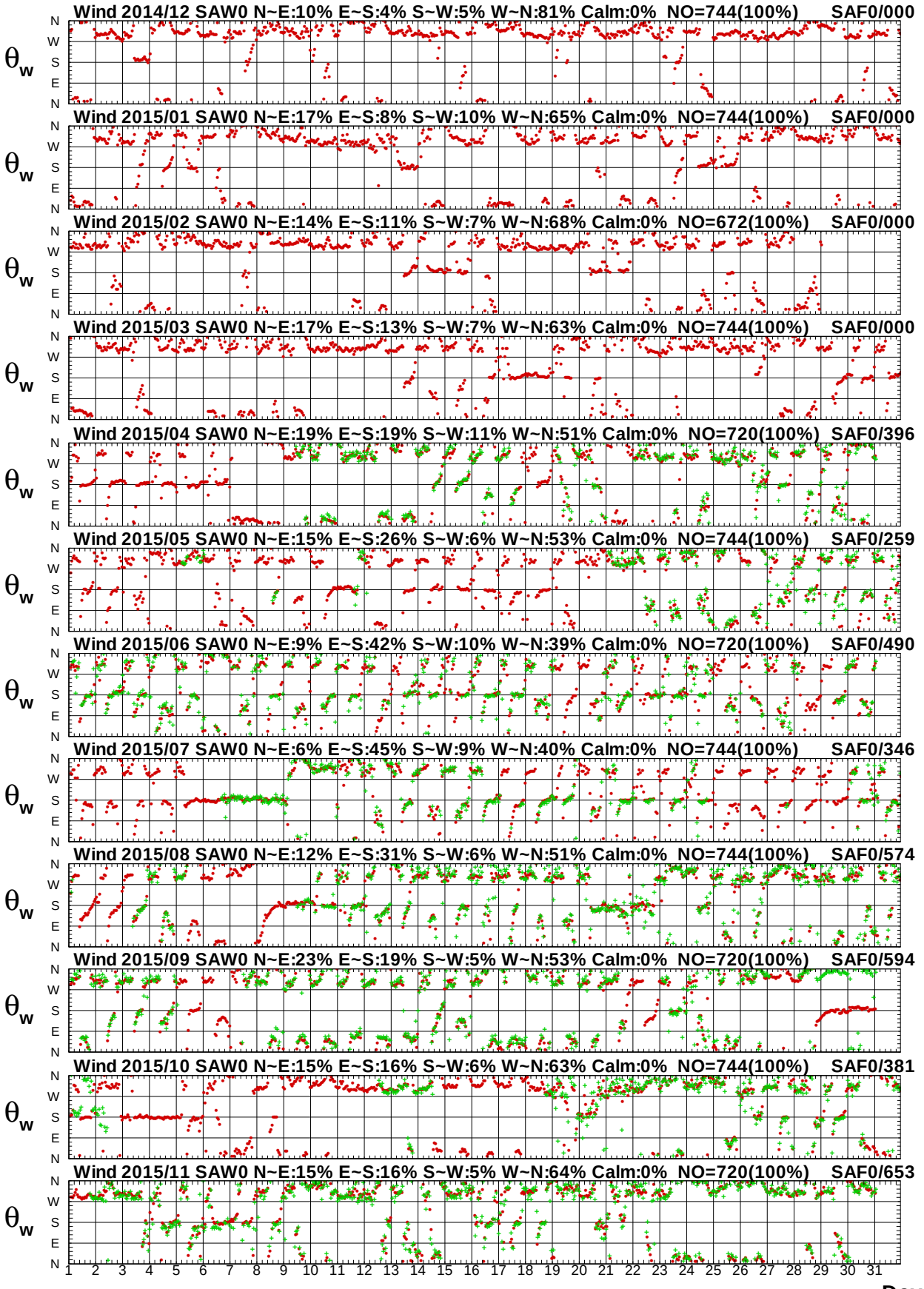

圖3.6b　2015年每月宜蘭海域 W 站與 F 站風向比較圖

Wind Speed in Yi-Lan Seas of SAW0 at 2015

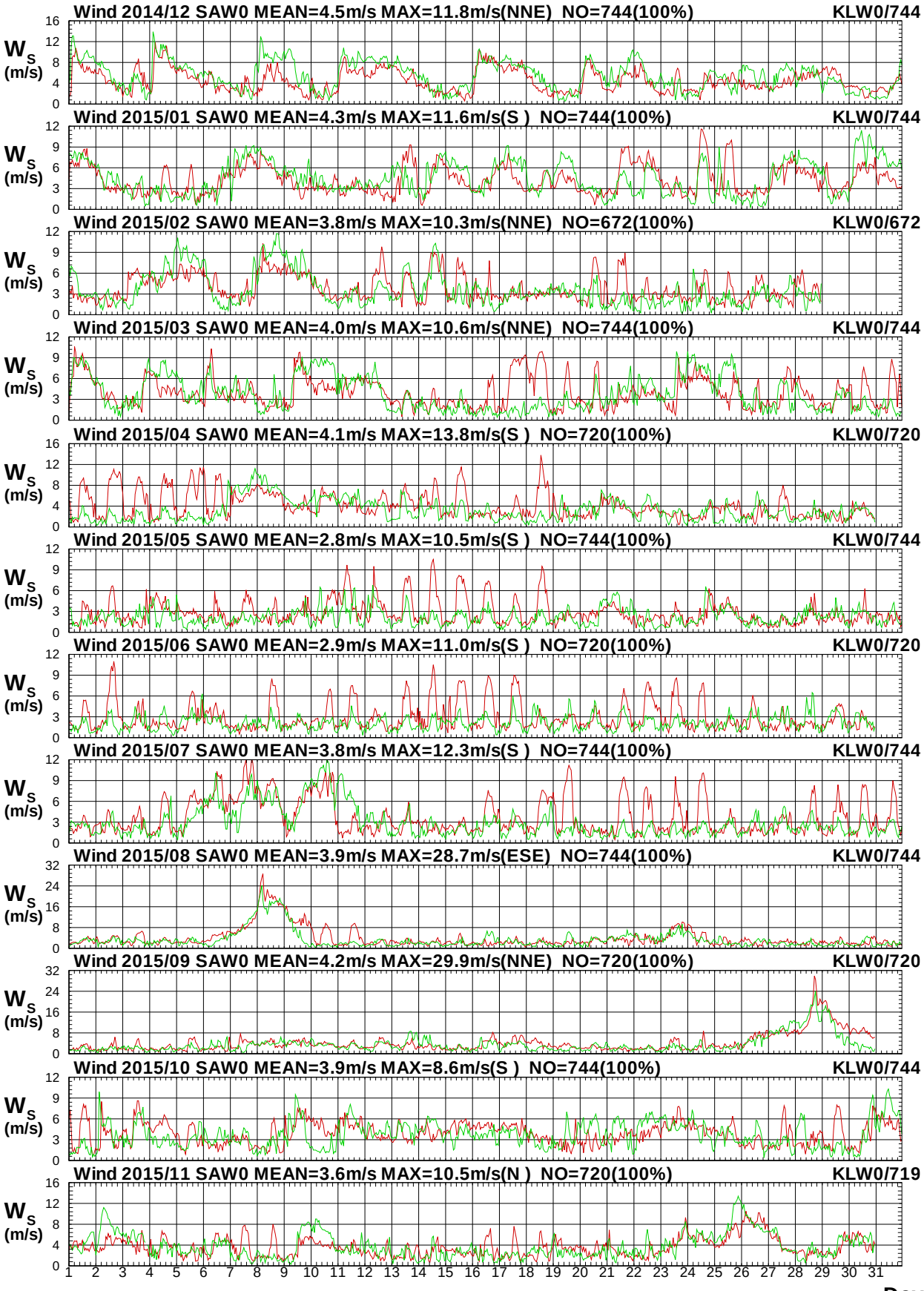

圖3.7a　2015年每月宜蘭海域 W 站與北端海域 W 站風速圖

Wind Direction in Yi-Lan Seas of SAW0 at 2015

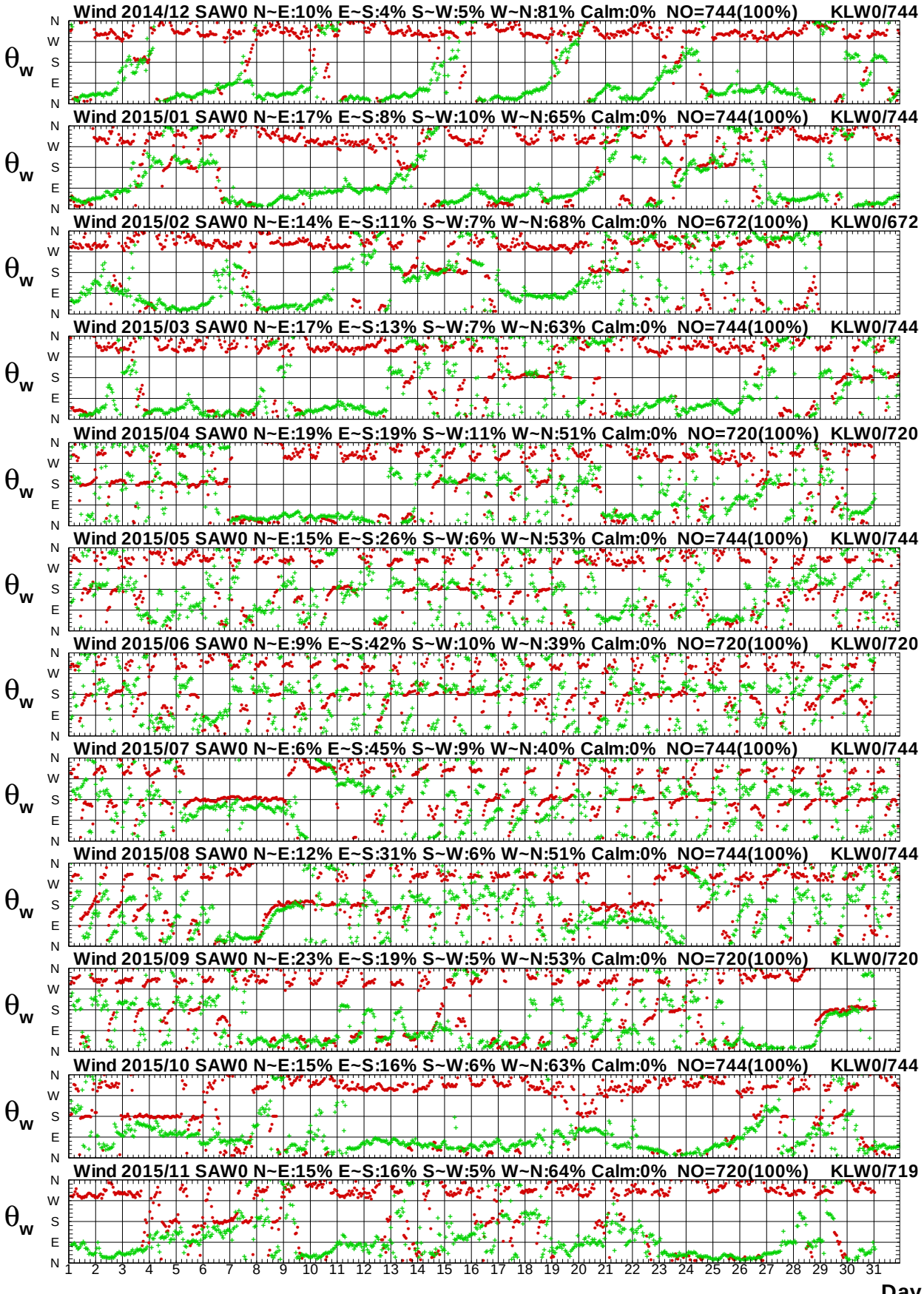

圖 3.7b　2015年每月宜蘭海域 W 站與北端海域 W 站風向圖

Wind Speed in Yi-Lan Seas of SAW0 at 2015

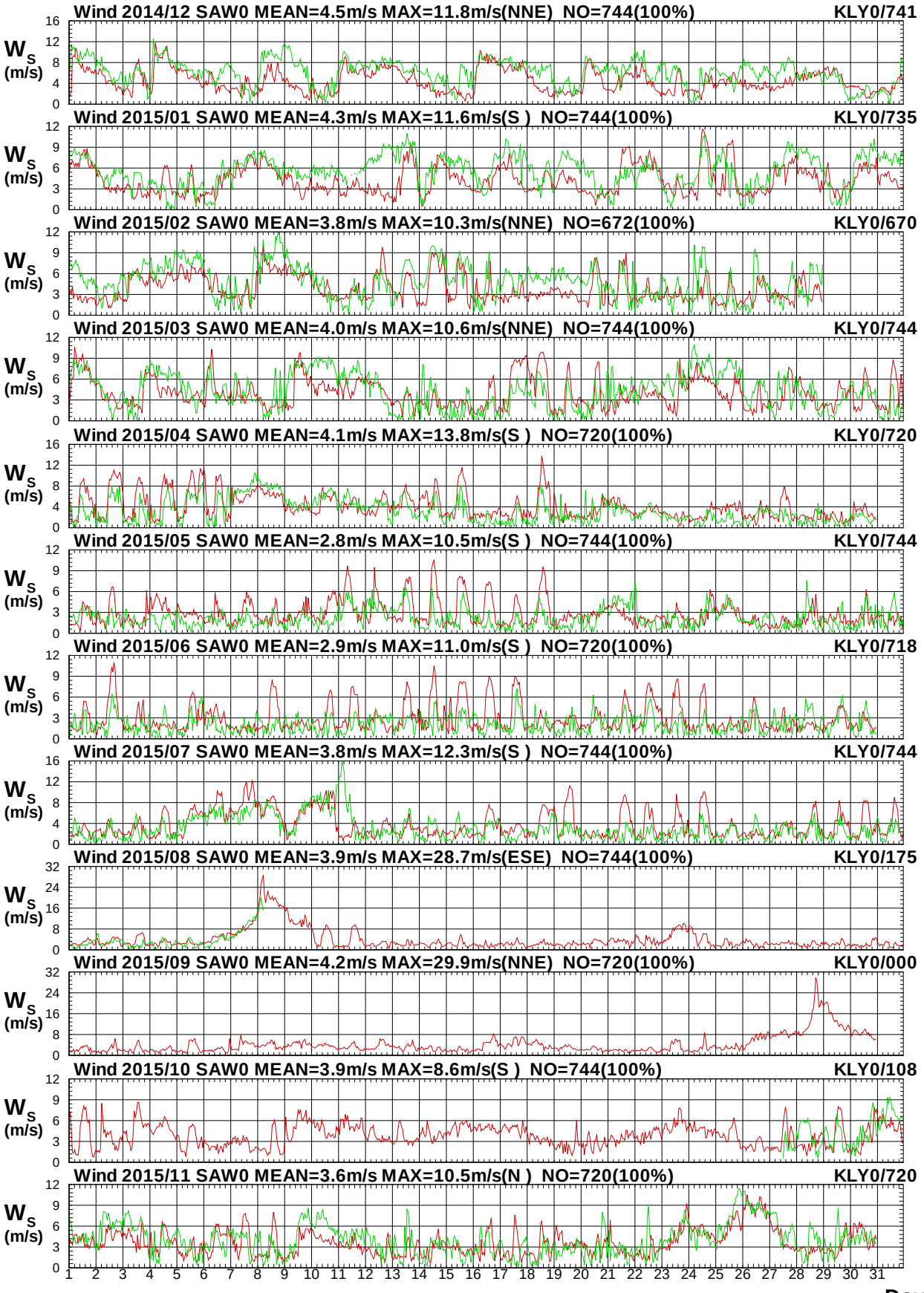

圖3.8a　2015年每月宜蘭海域 W 站與北端海域 Y 站風速圖

W14CSAW0.1HA W14CKLY0.1H0 W151SAW0.1HA W151KLY0.1H0 W152SAW0.1HA W152KLY0.1H0
W153SAW0.1HA W153KLY0.1H0 W154SAW0.1HA W154KLY0.1H0 W155SAW0.1HA W155KLY0.1H0

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Wind Direction in Yi-Lan Seas of SAW0 at 2015

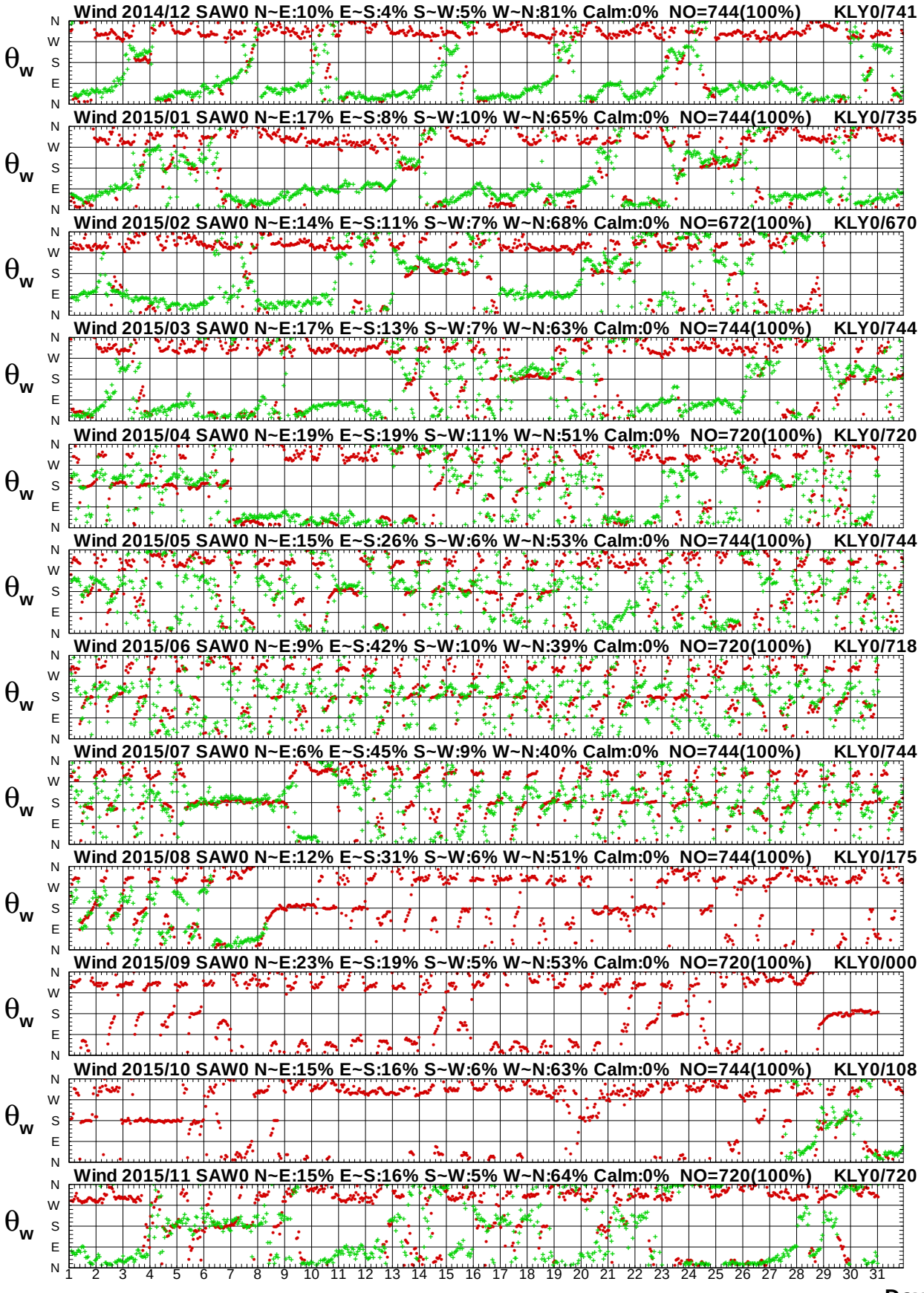

圖3.8b　2015年每月宜蘭海域 W 站與北端海域 Y 站風向圖

Wind Speed in Yi-Lan Seas of SAW0 at 2015

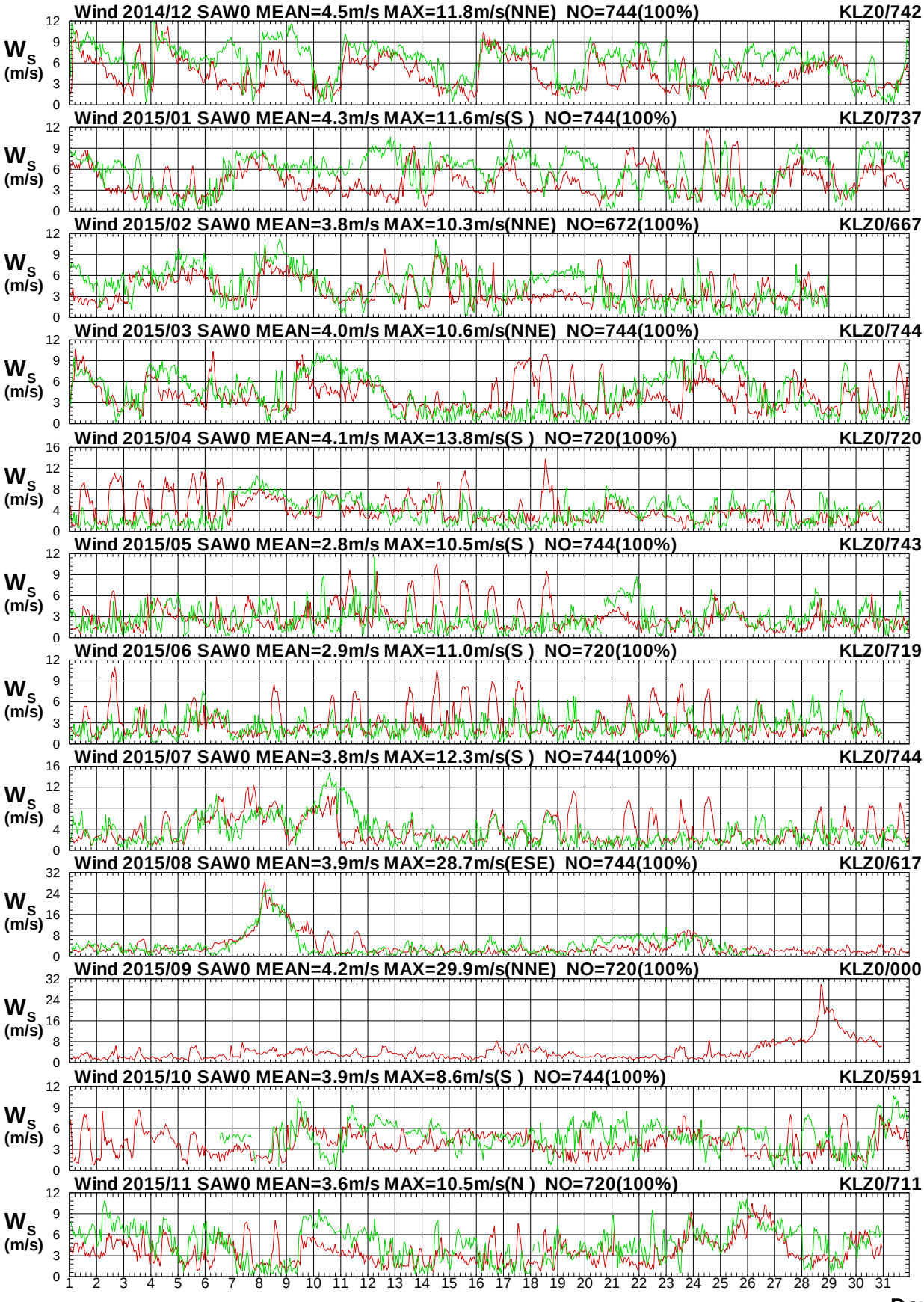

圖 3.9a　2015年每月宜蘭海域 W 站與北端海域 Z 站風速圖

W14CSAW0.1HA W14CKLZ0.1H0 W151SAW0.1HA W151KLZ0.1H0 W152SAW0.1HA W152KLZ0.1H0
W153SAW0.1HA W153KLZ0.1H0 W154SAW0.1HA W154KLZ0.1H0 W155SAW0.1HA W155KLZ0.1H0

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Wind Direction in Yi-Lan Seas of SAW0 at 2015

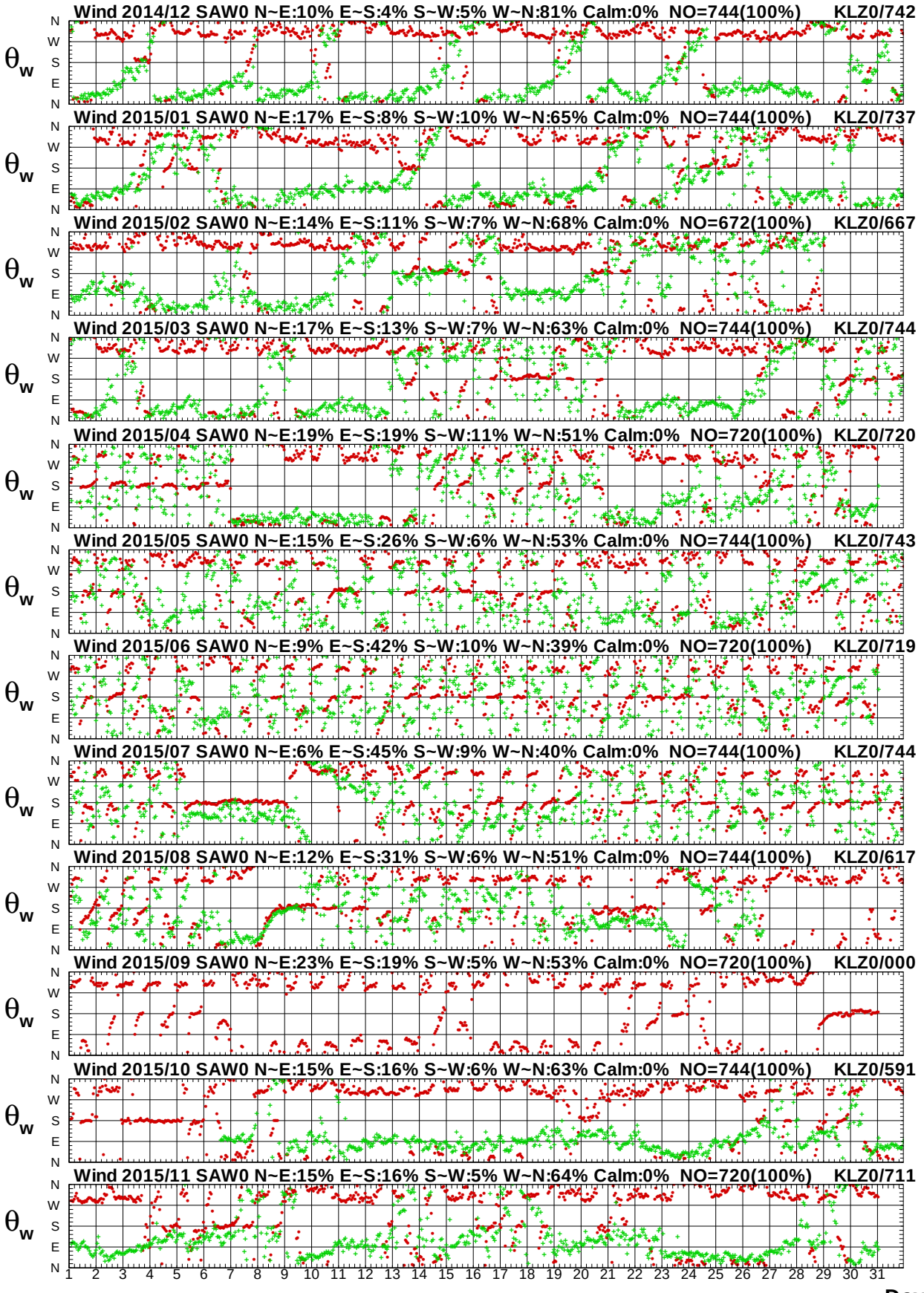

圖3.9b　2015年每月宜蘭海域 W 站與北端海域 Z 站風向圖

Wind Speed in Yi-Lan Seas of SAW0 at 2015

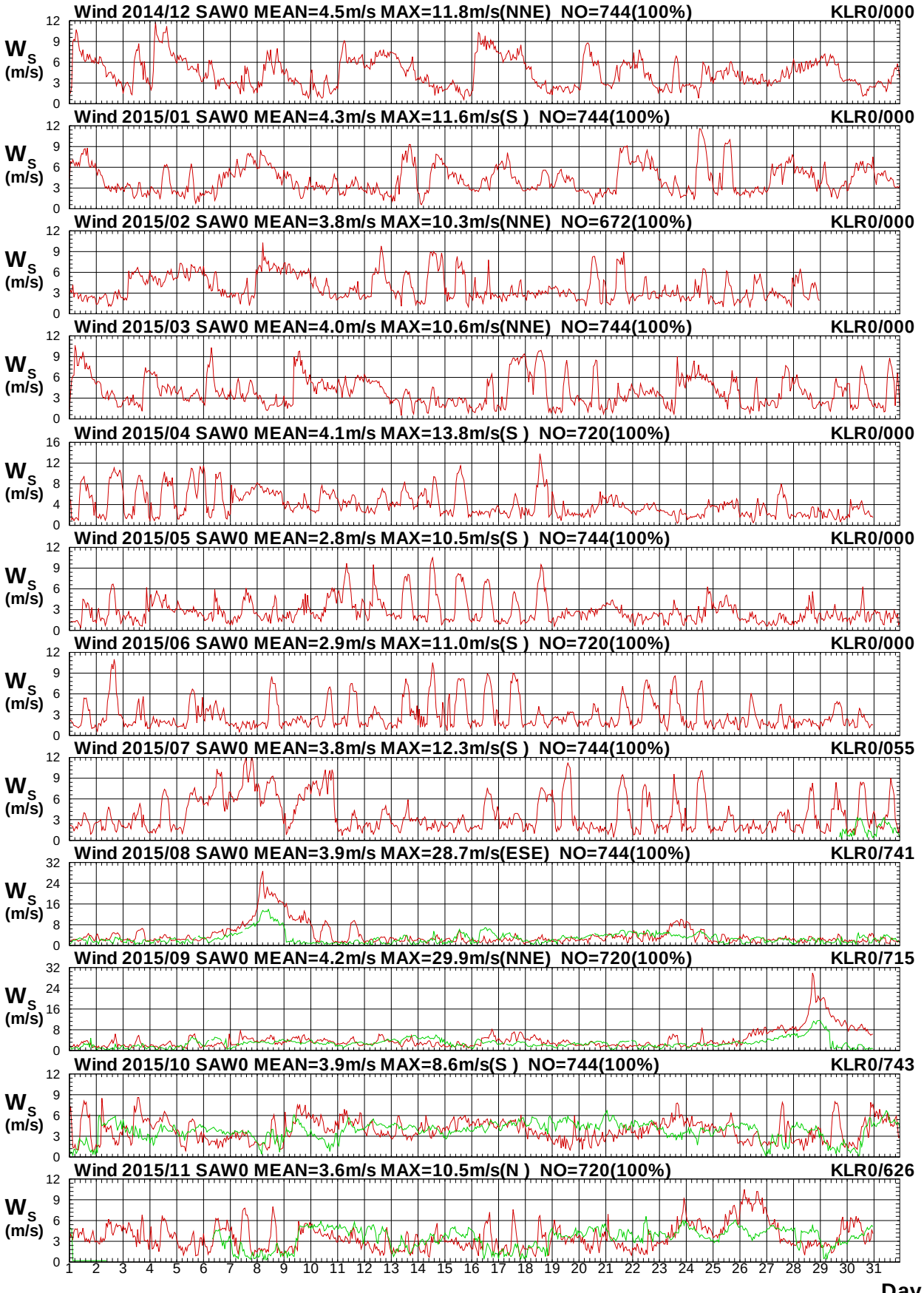

圖3.10a　2015年每月宜蘭海域 W 站與北端海域 R 站風速圖

W14CSAW0.1HA W14CKLR0.1H0 W151SAW0.1HA W151KLR0.1H0 W152SAW0.1HA W152KLR0.1H0
W153SAW0.1HA W153KLR0.1H0 W154SAW0.1HA W154KLR0.1H0 W155SAW0.1HA W155KLR0.1H0

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Wind Direction in Yi-Lan Seas of SAW0 at 2015

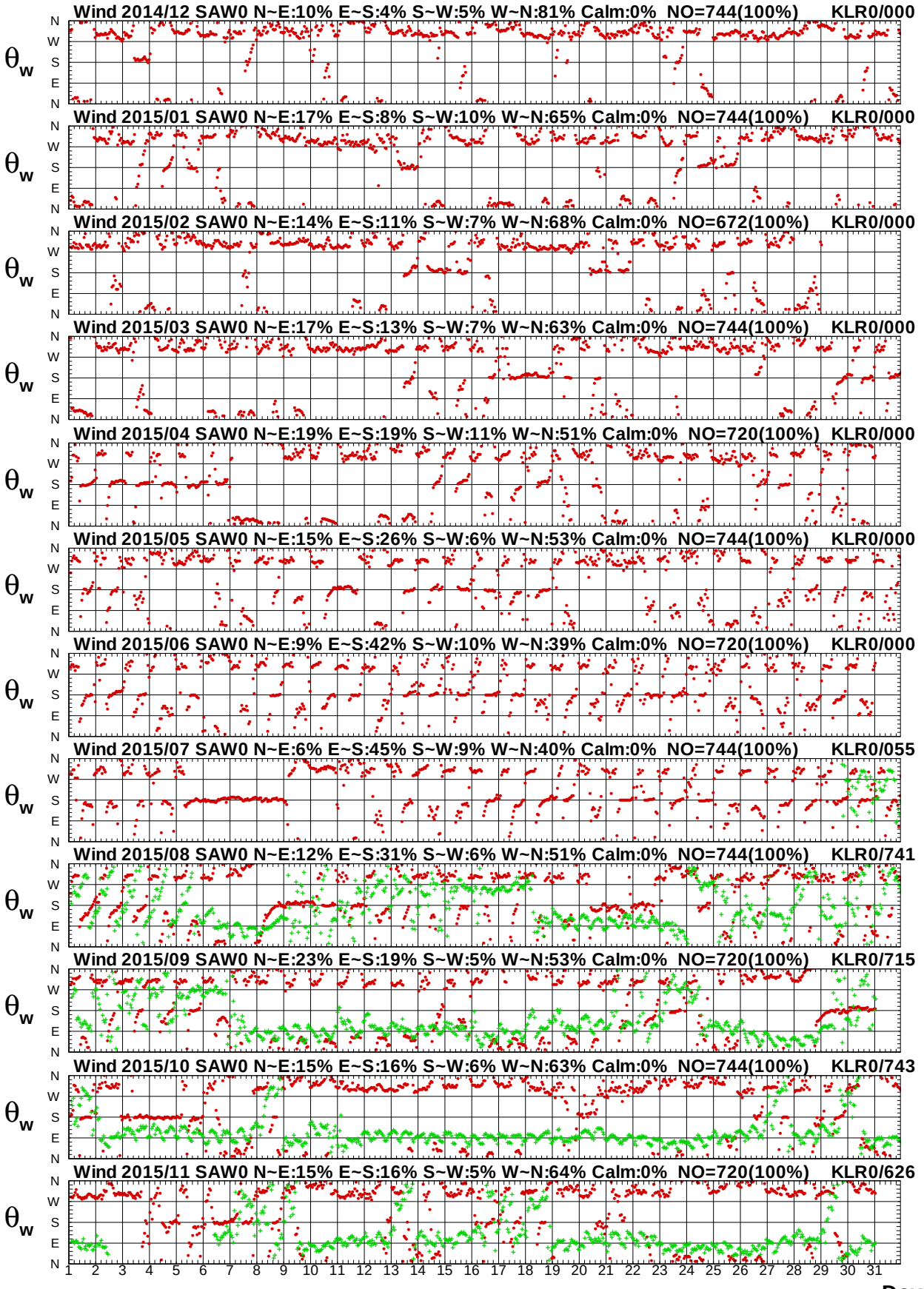

圖 3.10b　2015年每月宜蘭海域 W 站與北端海域 R 站風向圖

Wind Speed in Yi-Lan Seas of SAW0 at 2015

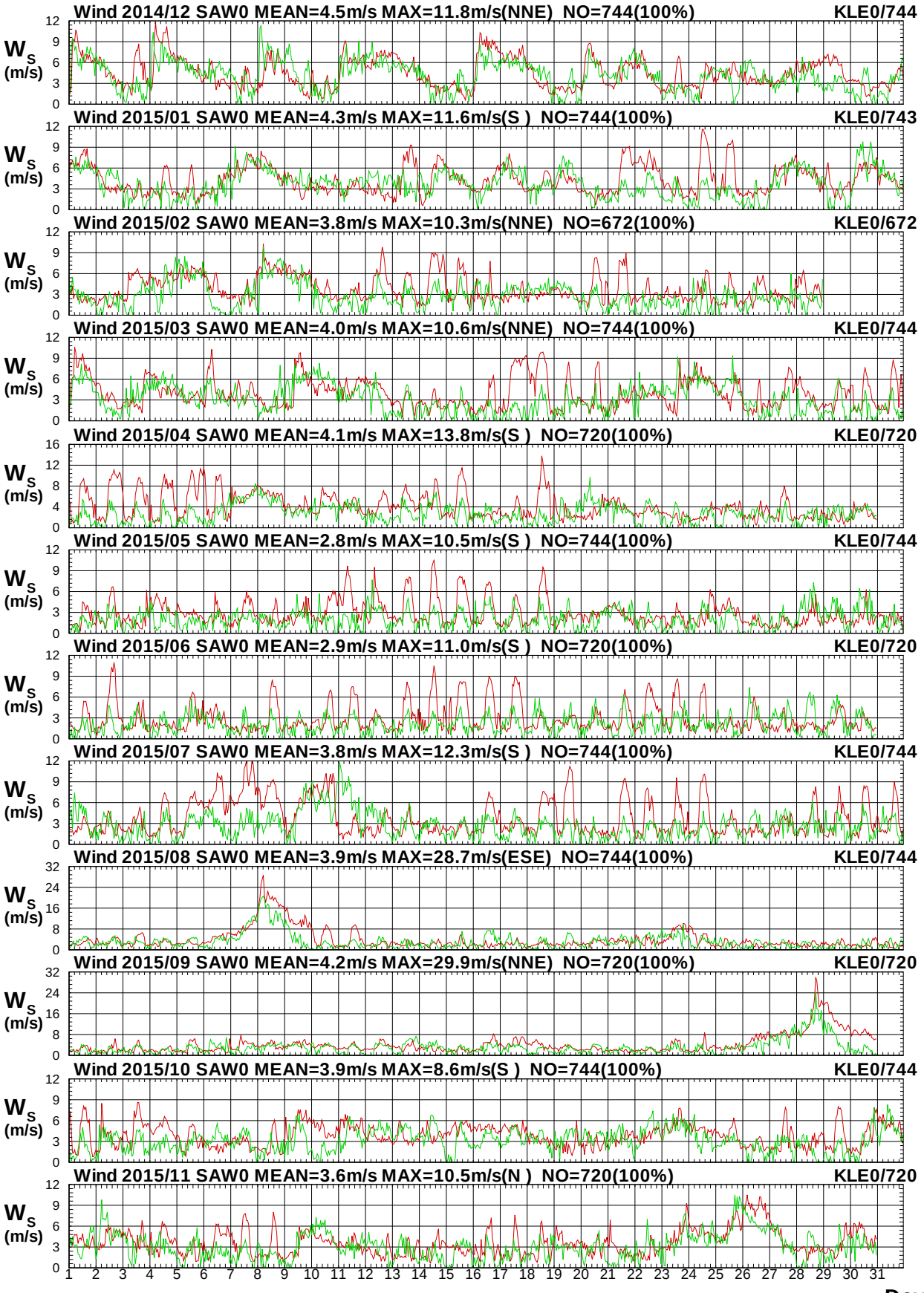

圖 3.11a　2015年每月宜蘭海域 W 站與北端海域 E 站風速圖

W14CSAW0.1HA W14CKLE0.1H0 W151SAW0.1HA W151KLE0.1H0 W152SAW0.1HA W152KLE0.1H0
W153SAW0.1HA W153KLE0.1H0 W154SAW0.1HA W154KLE0.1H0 W155SAW0.1HA W155KLE0.1H0

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Wind Direction in Yi-Lan Seas of SAW0 at 2015

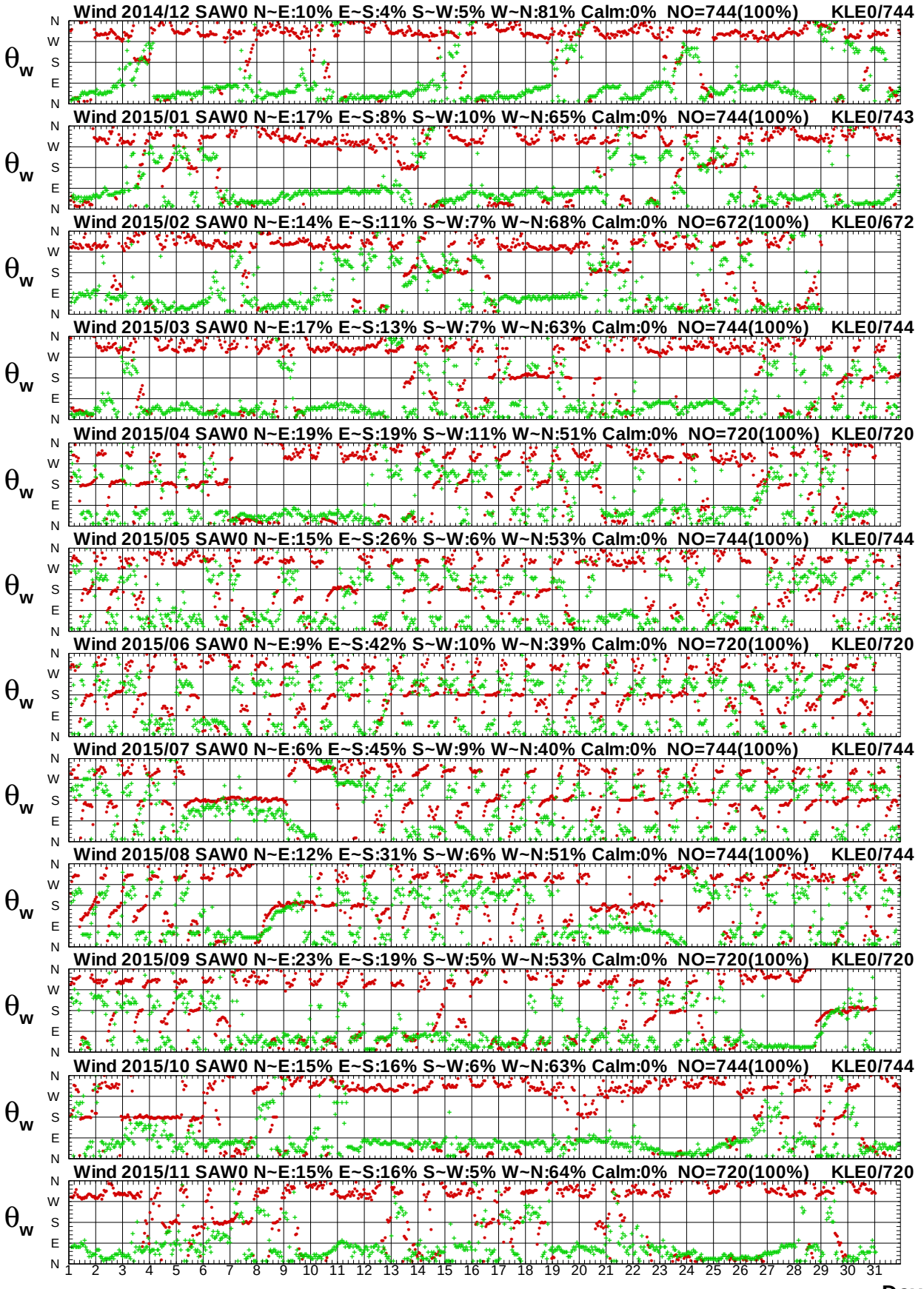

圖3.11b　2015年每月宜蘭海域 W 站與北端海域 E 站風向圖

Wind Speed in Yi-Lan Seas of SAW0 at 2015

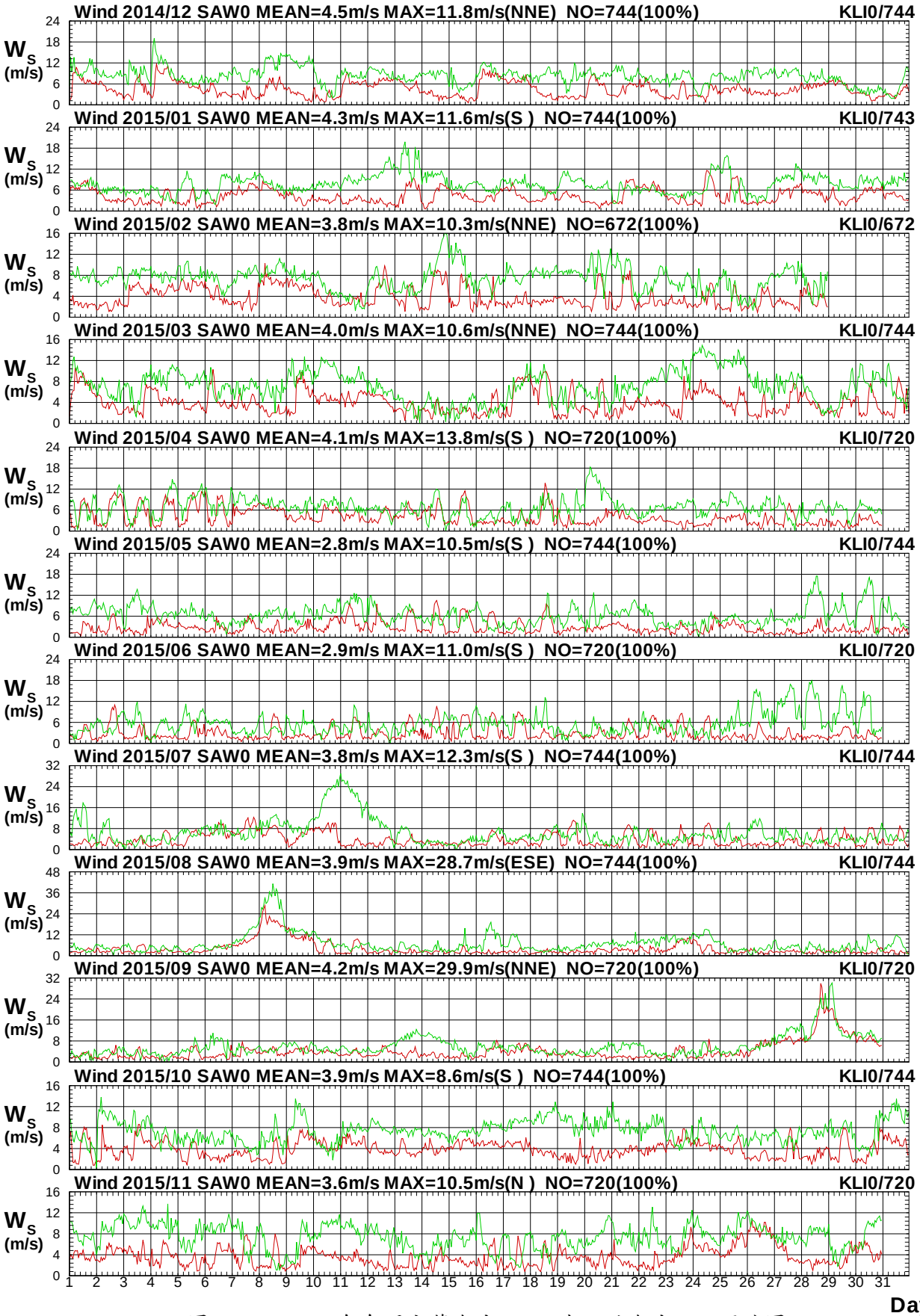

圖3.12a　2015年每月宜蘭海域 W 站與北端海域 I 站風速圖

W14CSAW0.1HA W14CKLI0.1H0 W151SAW0.1HA W151KLI0.1H0 W152SAW0.1HA W152KLI0.1H0
W153SAW0.1HA W153KLI0.1H0 W154SAW0.1HA W154KLI0.1H0 W155SAW0.1HA W155KLI0.1H0

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Wind Direction in Yi-Lan Seas of SAW0 at 2015

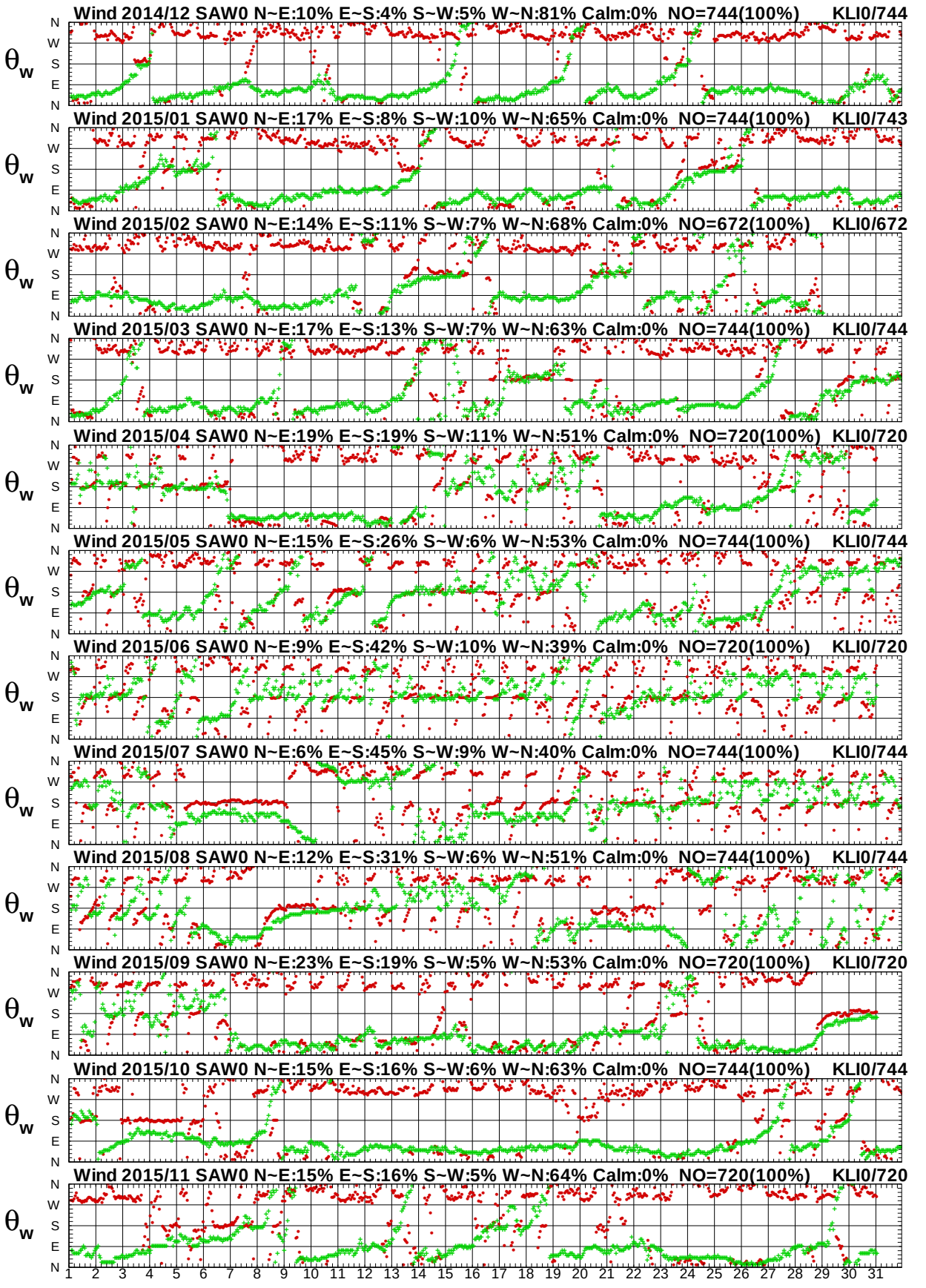

圖3.12b　2015年每月宜蘭海域 W 站與北端海域 I 站風向圖

Wind Speed in Yi-Lan Seas of SAW0 at 2015

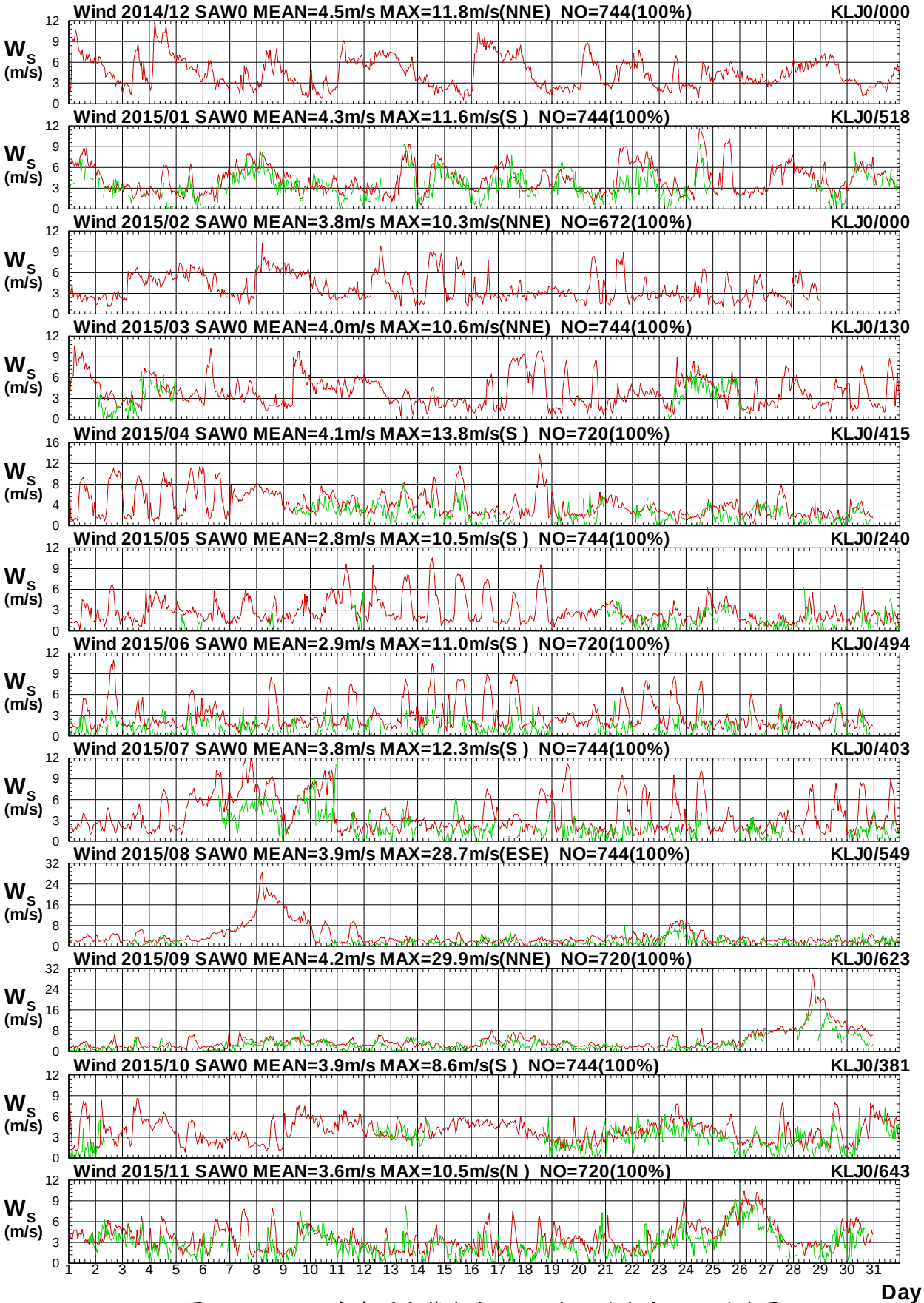

圖3.13a　2015年每月宜蘭海域 W 站與北端海域 J 站風速圖

W14CSAW0.1HA W14CKLJ0.1H0 W151SAW0.1HA W151KLJ0.1H0 W152SAW0.1HA W152KLJ0.1H0
W153SAW0.1HA W153KLJ0.1H0 W154SAW0.1HA W154KLJ0.1H0 W155SAW0.1HA W155KLJ0.1H0

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Wind Direction in Yi-Lan Seas of SAW0 at 2015

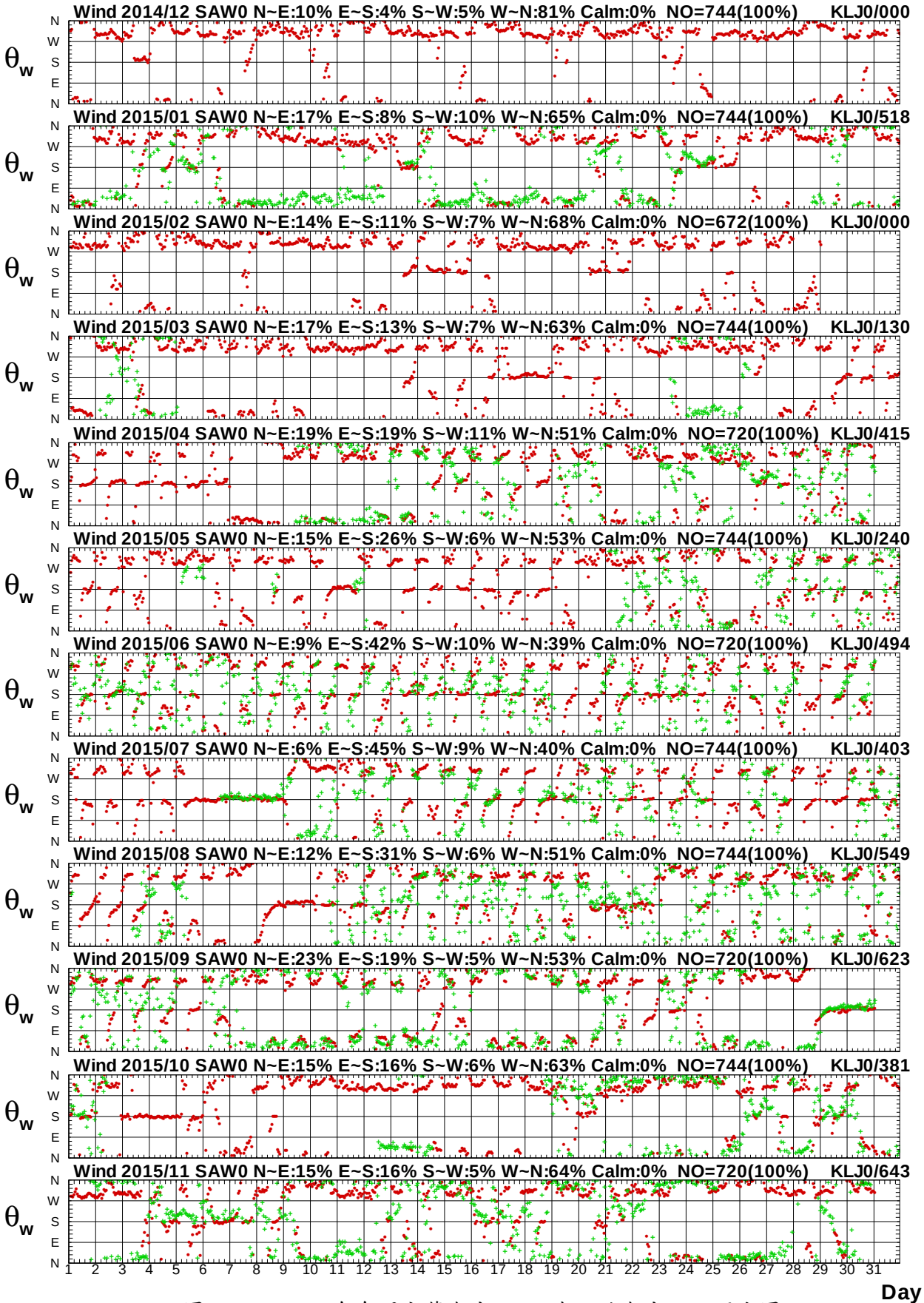

圖 3.13b　2015年每月宜蘭海域 W 站與北端海域 J 站風向圖

Wind Speed in Yi-Lan Seas of SAW0 at 2015

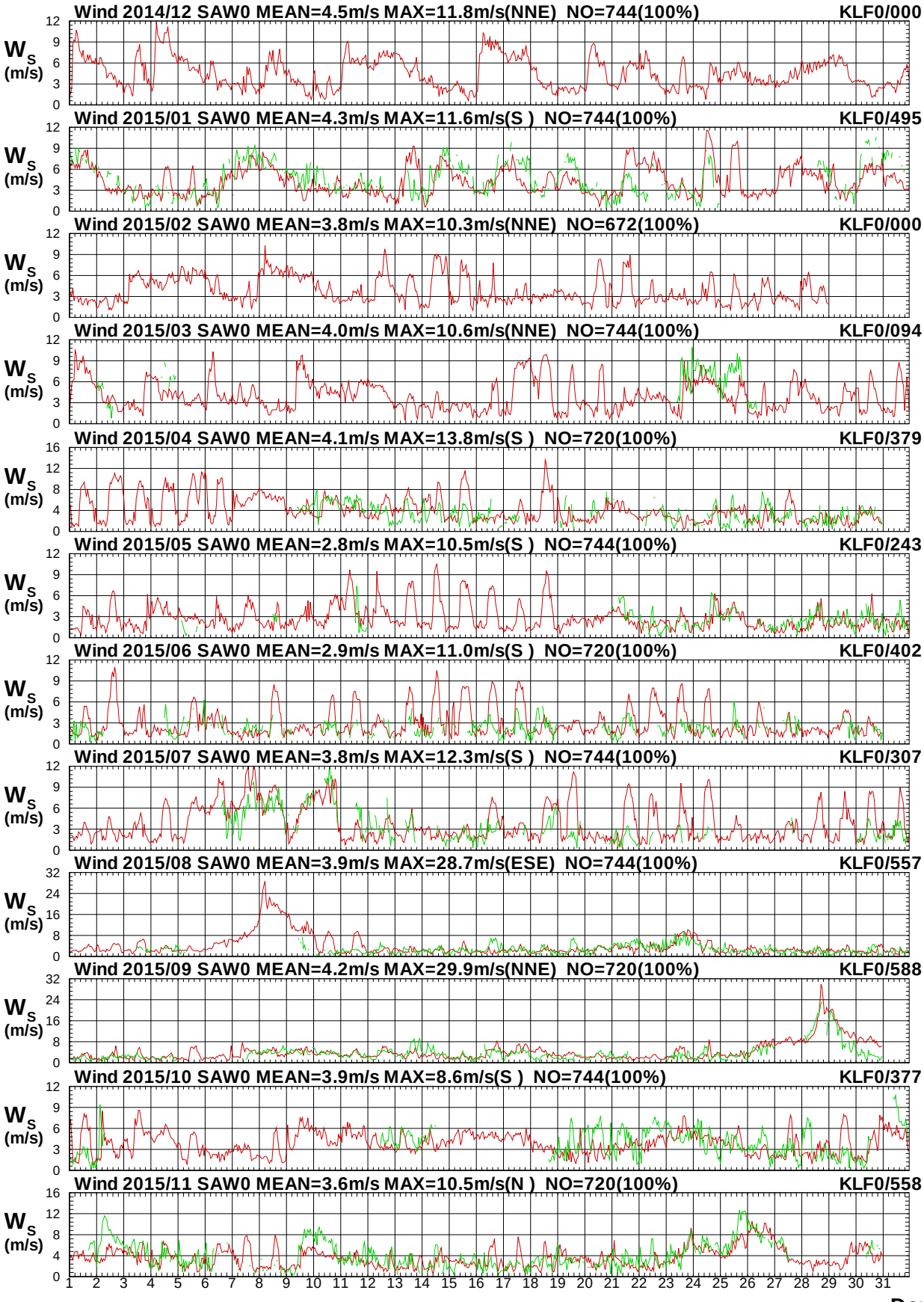

圖 3.14a　2015年每月宜蘭海域 W 站與北端海域 F 站風速圖

W14CSAW0.1HA W14CKLF0.1H0 W151SAW0.1HA W151KLF0.1H0 W152SAW0.1HA W152KLF0.1H0
W153SAW0.1HA W153KLF0.1H0 W154SAW0.1HA W154KLF0.1H0 W155SAW0.1HA W155KLF0.1H0

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Wind Direction in Yi-Lan Seas of SAW0 at 2015

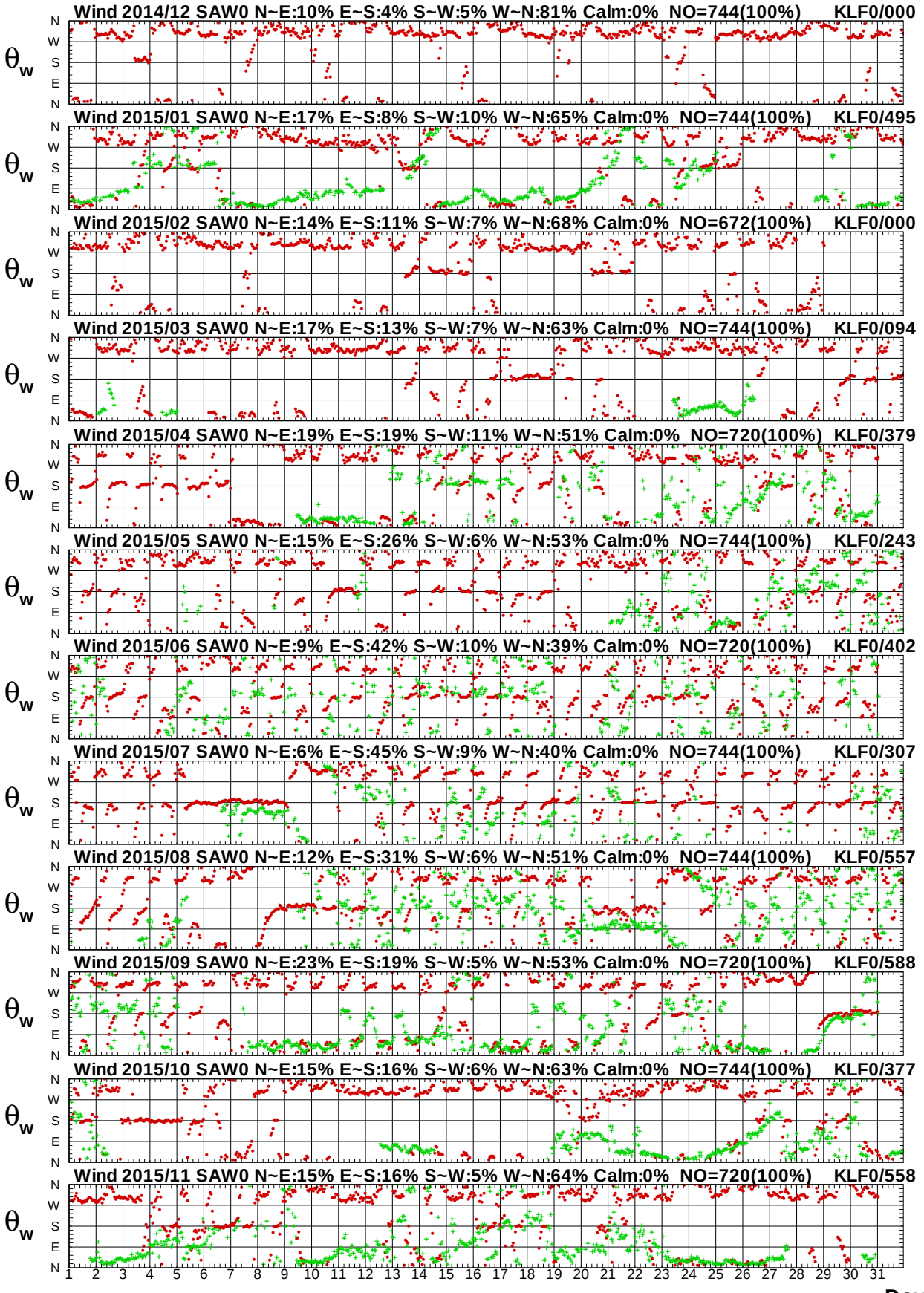

圖 3.14b　2015年每月宜蘭海域 W 站與北端海域 F 站風向圖

Wind Speed in Yi-Lan Seas of SAW0 at 2015

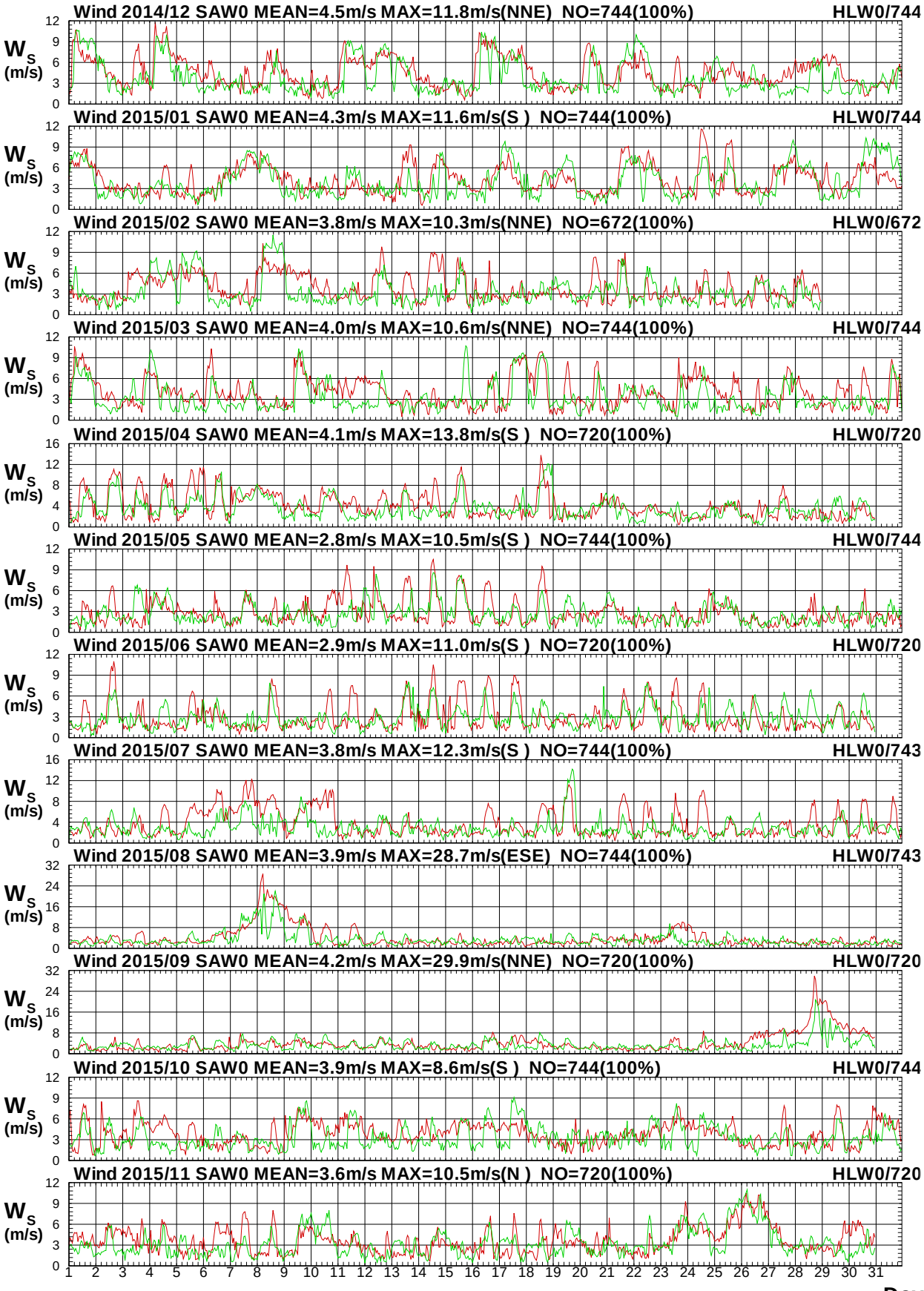

圖 3.15a　2015年每月宜蘭海域 W 站與花蓮海域 W 站風速圖

Wind Direction in Yi-Lan Seas of SAW0 at 2015

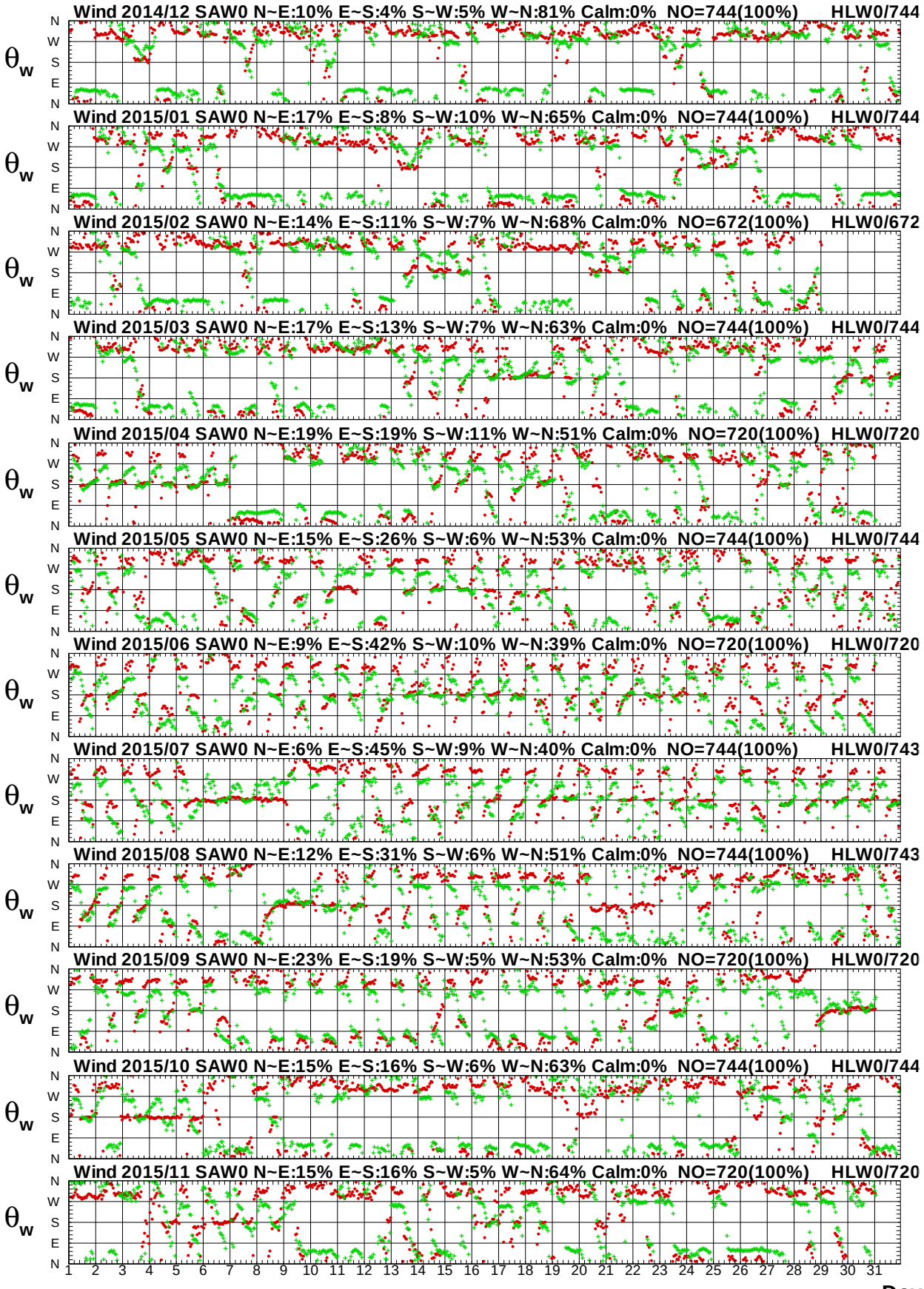

圖3.15b　2015年每月宜蘭海域 W 站與花蓮海域 W 站風向圖

Wind Speed in Yi-Lan Seas of SAW0 at 2015

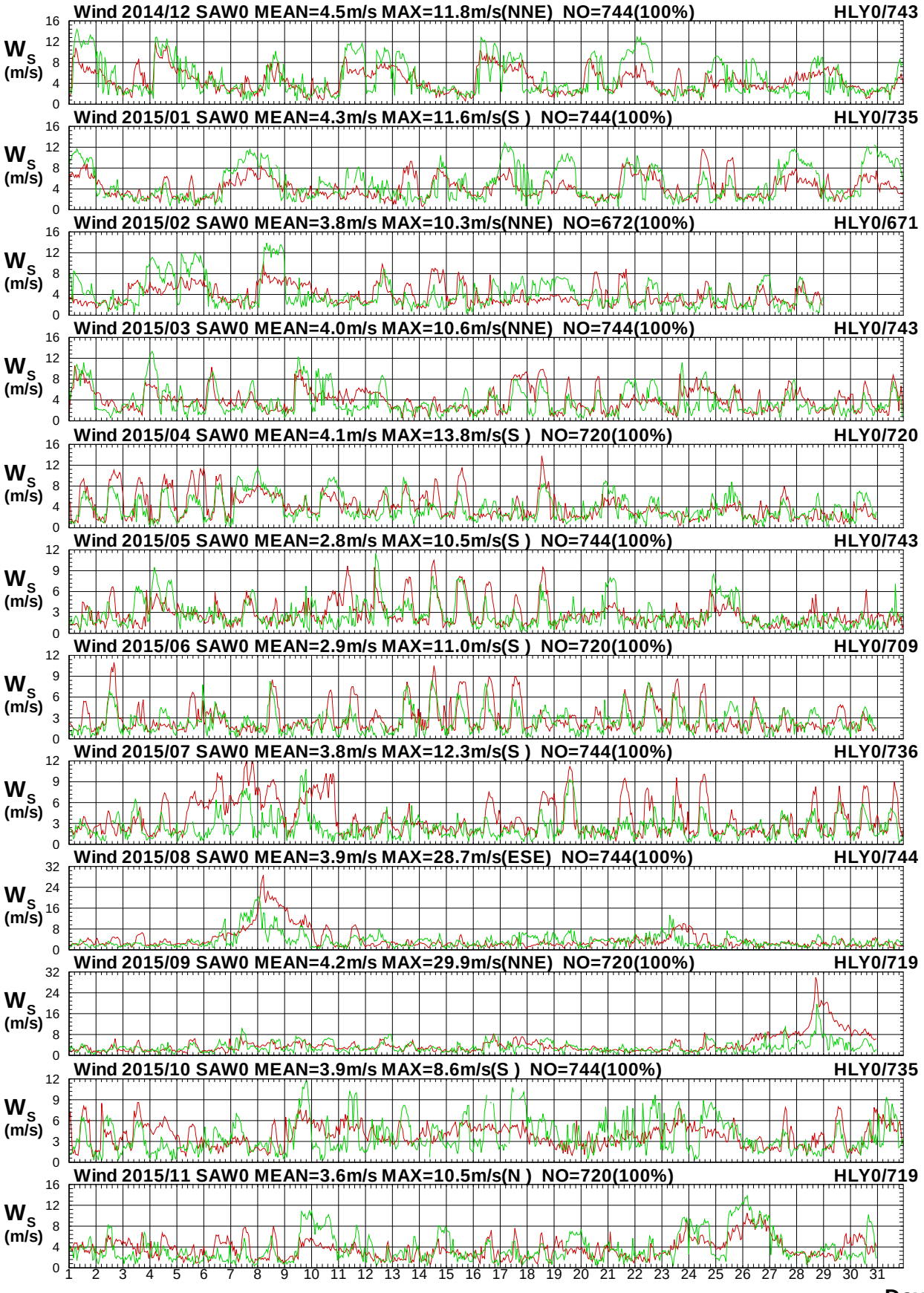

圖3.16a　2015年每月宜蘭海域 W 站與花蓮海域 Y 站風速圖

Wind Direction in Yi-Lan Seas of SAW0 at 2015

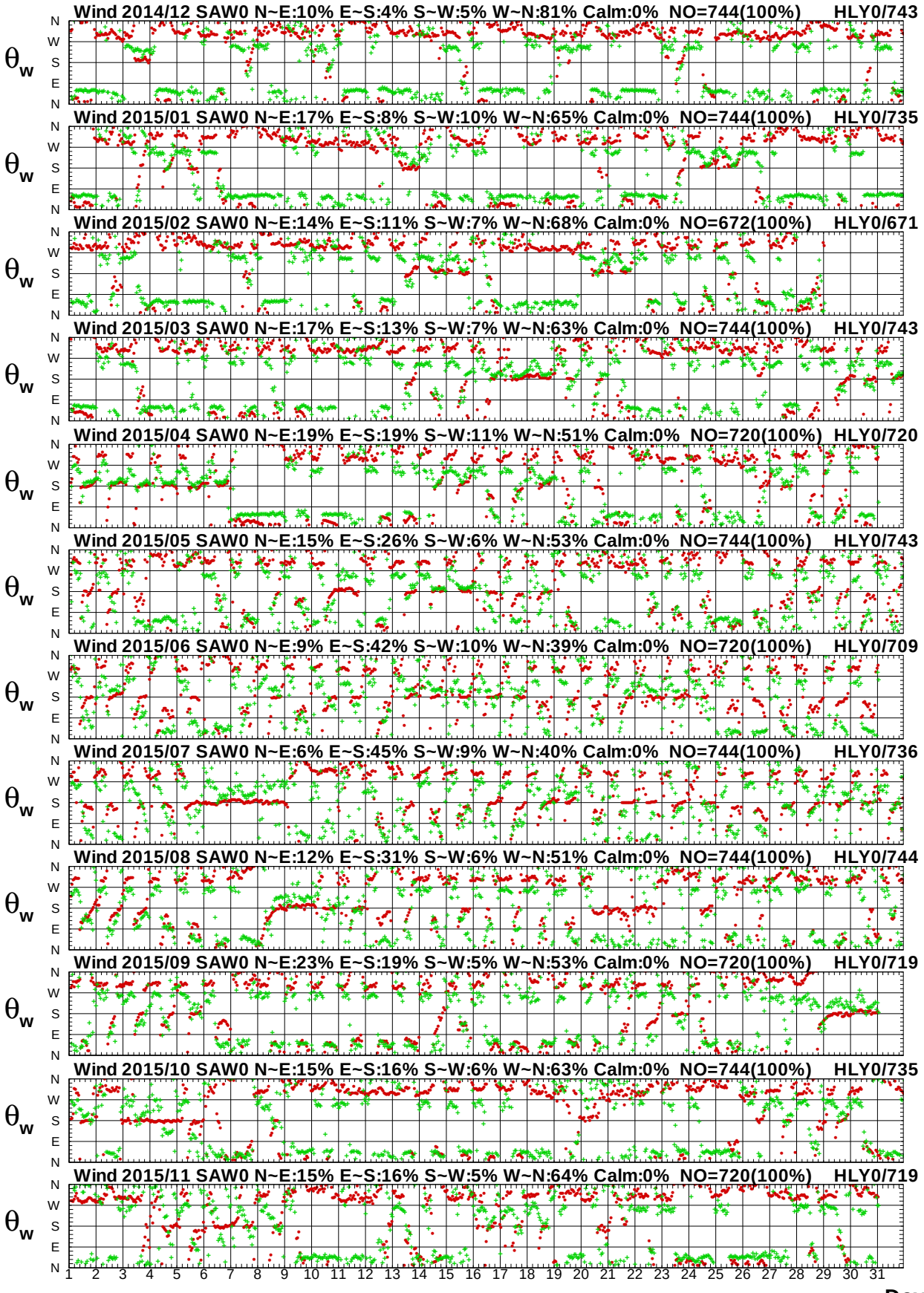

圖 3.16b　2015年每月宜蘭海域 W 站與花蓮海域 Y 站風向圖

Wind Speed in Yi-Lan Seas of SAW0 at 2015

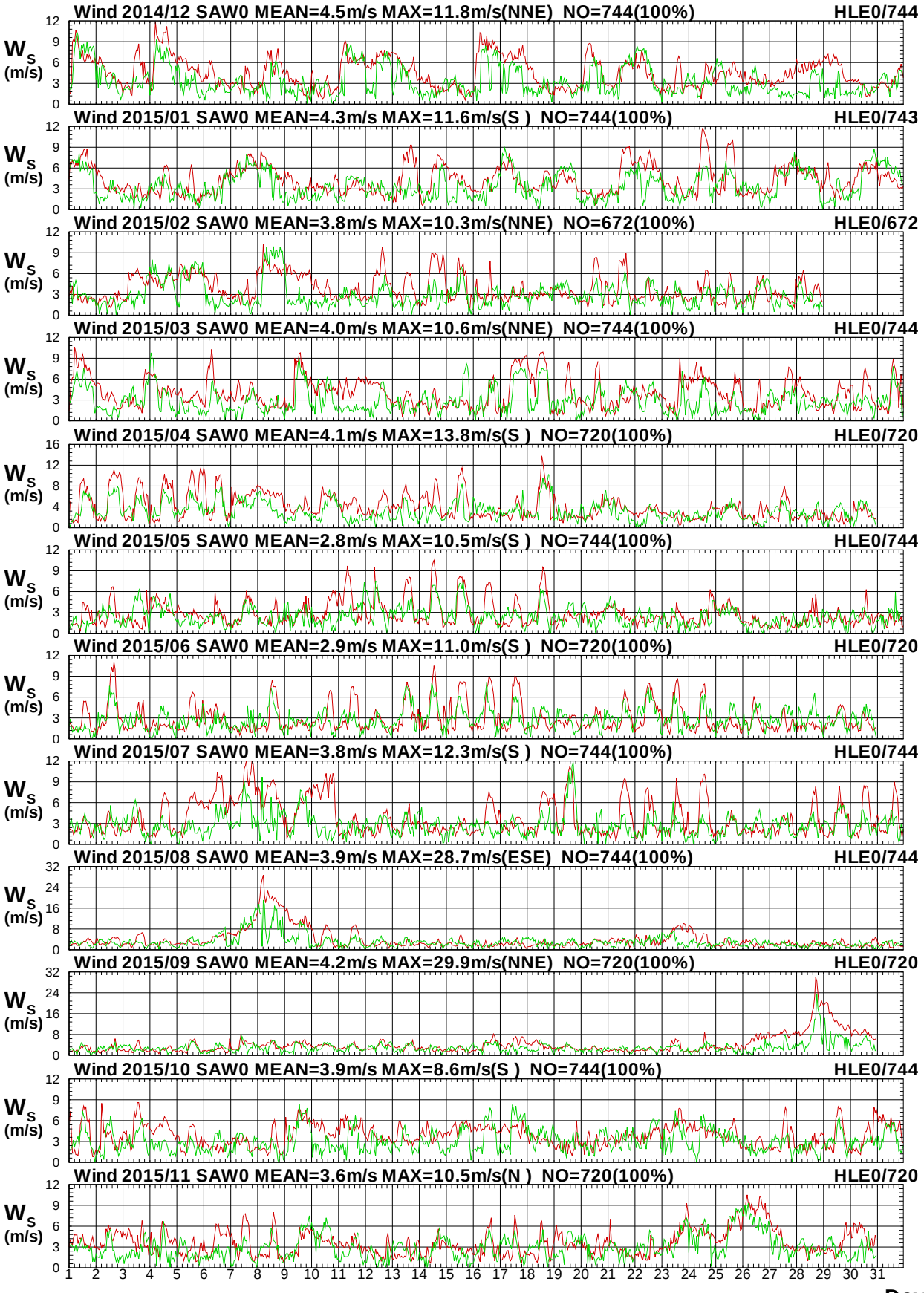

圖3.17a　2015年每月宜蘭海域 W 站與花蓮海域 E 站風速圖

Wind Direction in Yi-Lan Seas of SAW0 at 2015

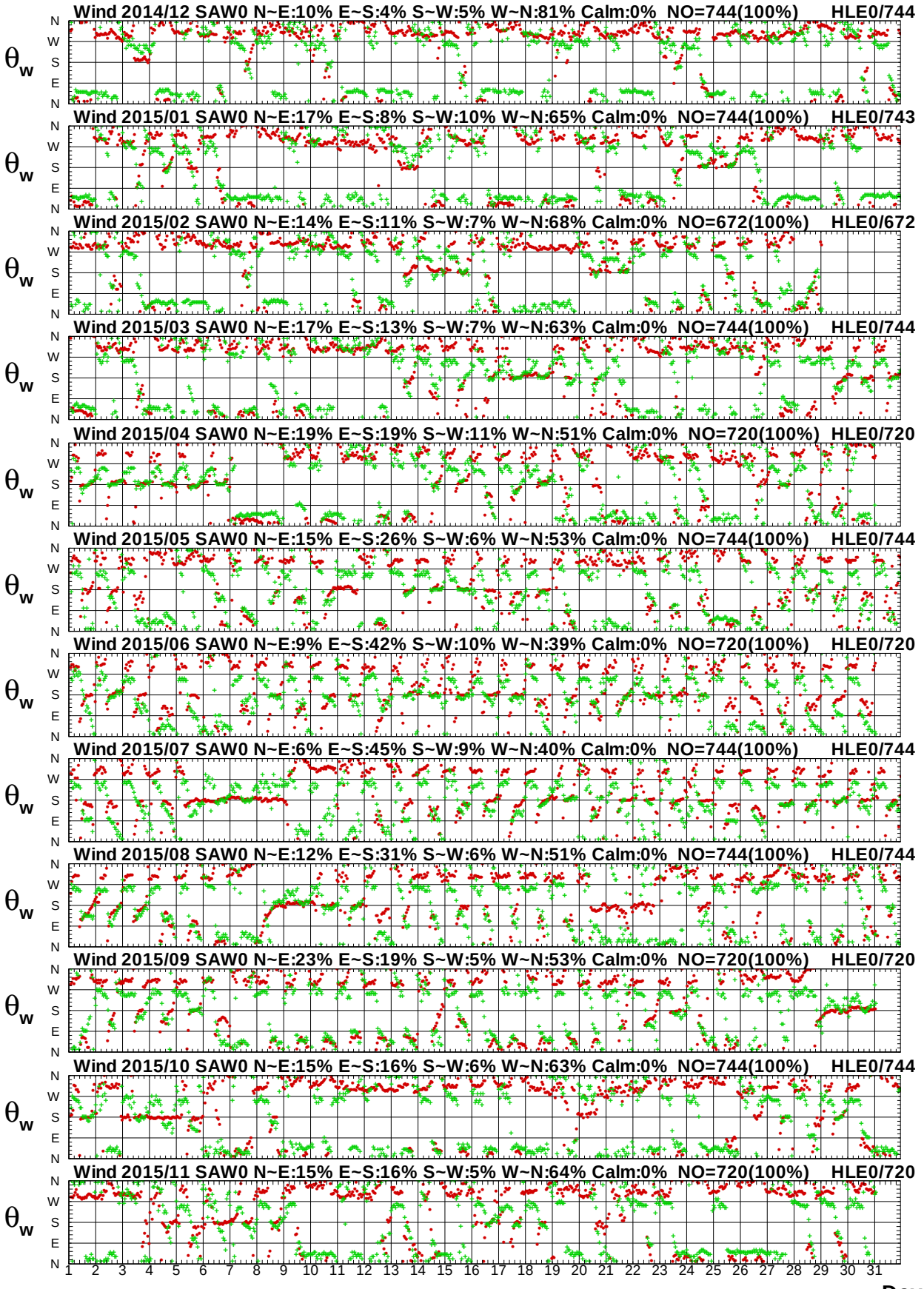

圖3.17b　2015年每月宜蘭海域 W 站與花蓮海域 E 站風向圖

Wind Speed in Yi-Lan Seas of SAW0 at 2015

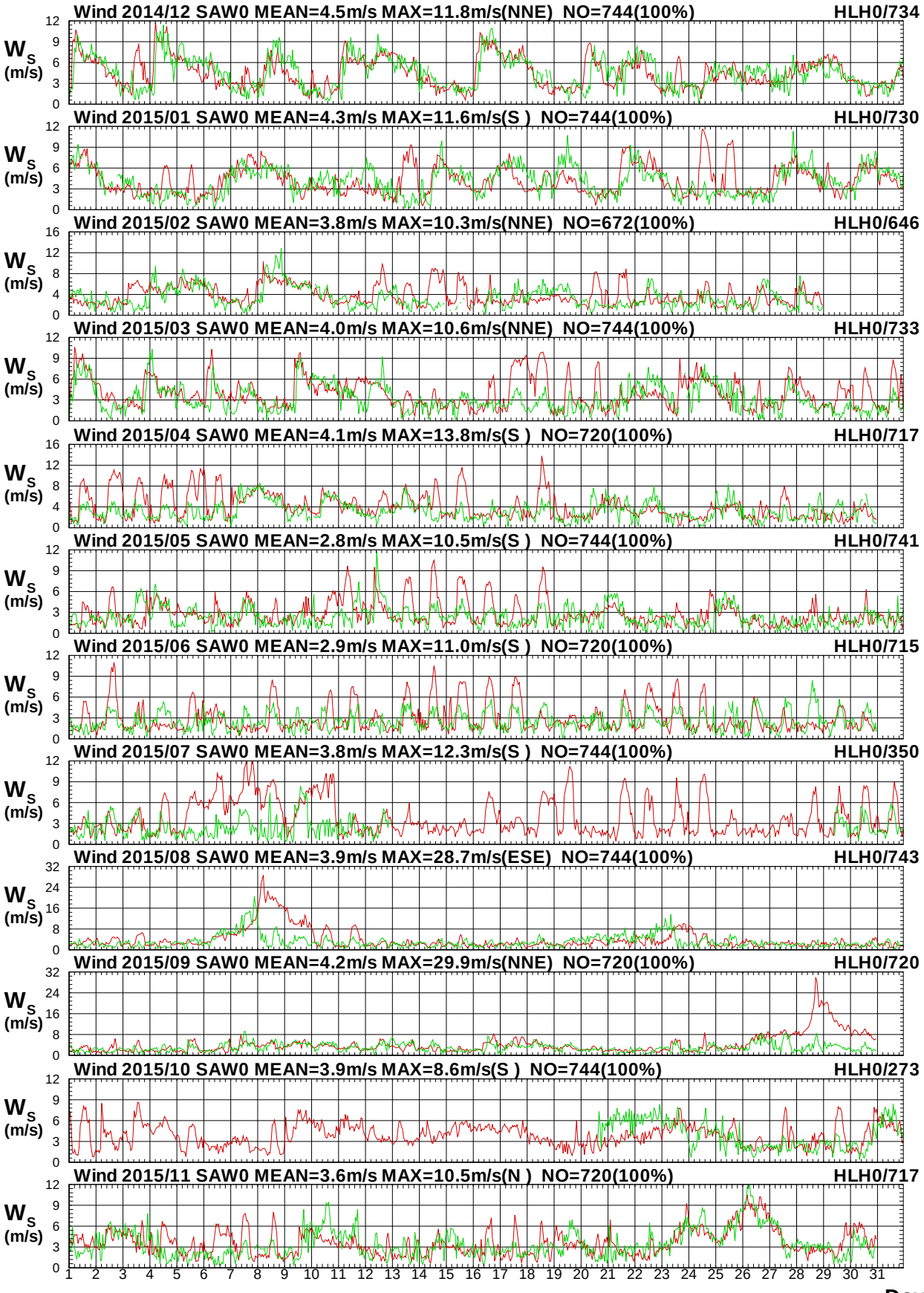

圖3.18a　2015年每月宜蘭海域 W 站與花蓮海域 H 站風速圖

Wind Direction in Yi-Lan Seas of SAW0 at 2015

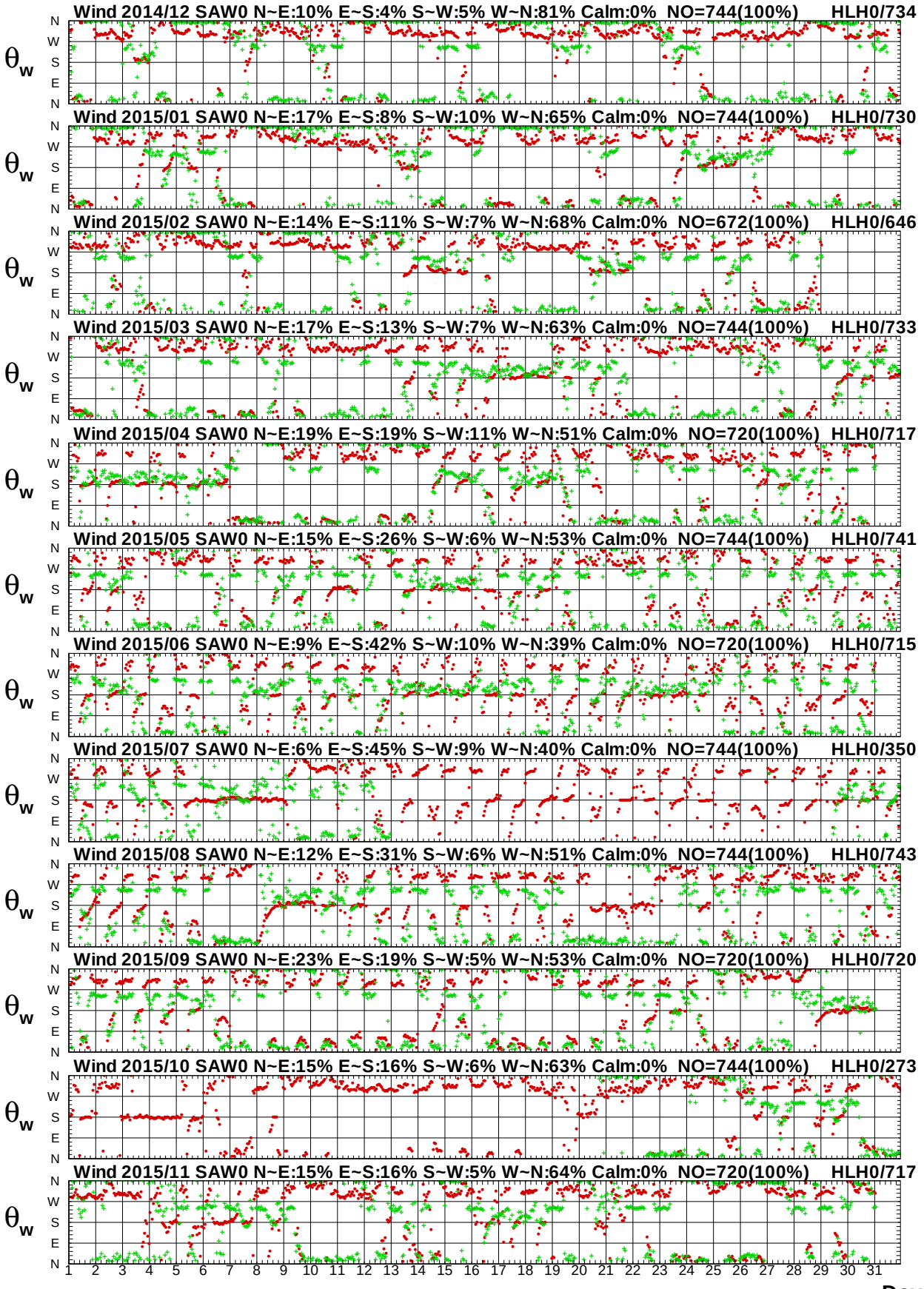

圖3.18b　2015年每月宜蘭海域 W 站與花蓮海域 H 站風向圖

Wind Speed in Yi-Lan Seas of SAW0 at 2015

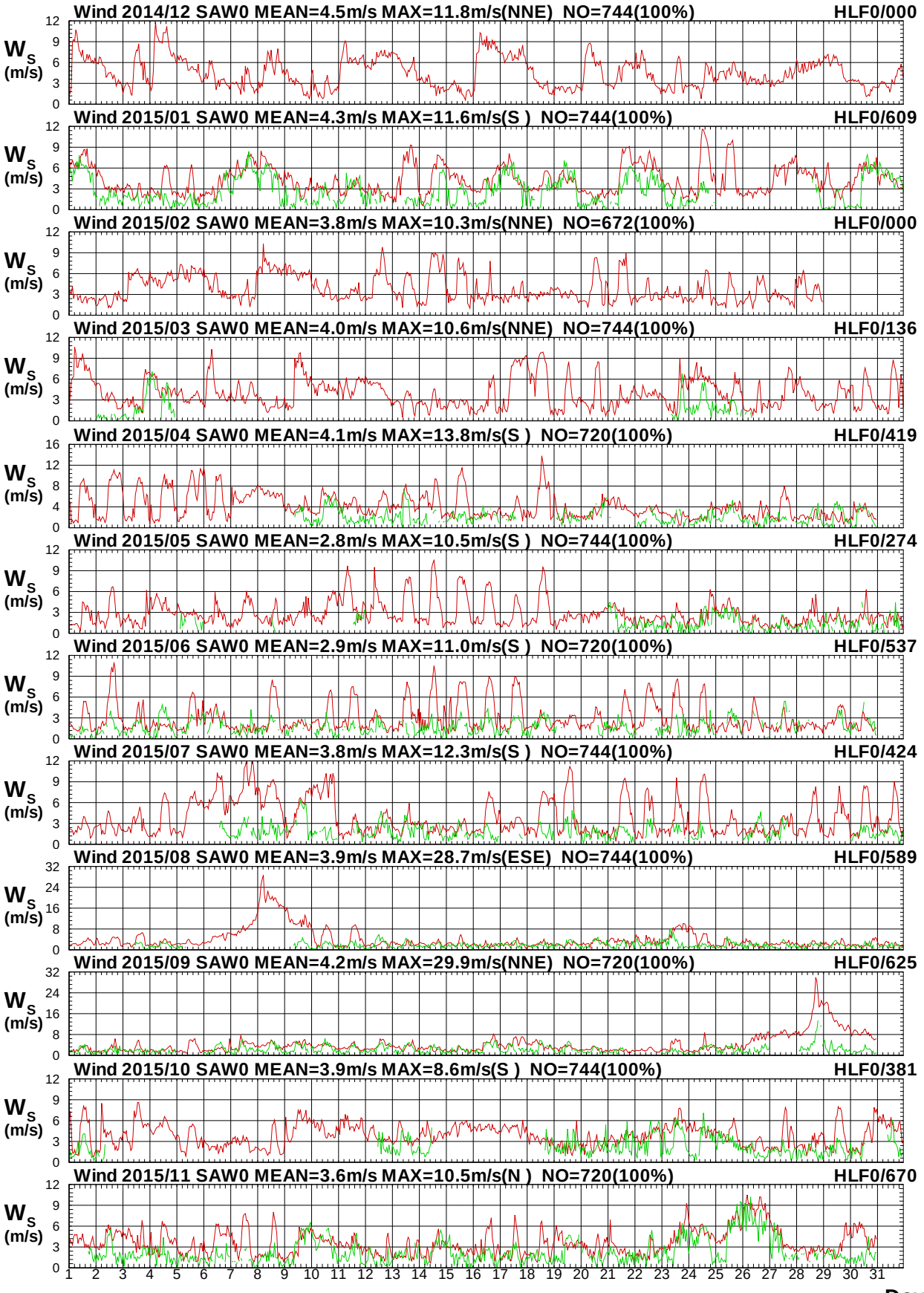

圖 3.19a　2015年每月宜蘭海域 W 站與花蓮海域 F 站風速圖

W14CSAW0.1HA W14CHLF0.1H0 W151SAW0.1HA W151HLF0.1H0 W152SAW0.1HA W152HLF0.1H0
W153SAW0.1HA W153HLF0.1H0 W154SAW0.1HA W154HLF0.1H0 W155SAW0.1HA W155HLF0.1H0

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Wind Direction in Yi-Lan Seas of SAW0 at 2015

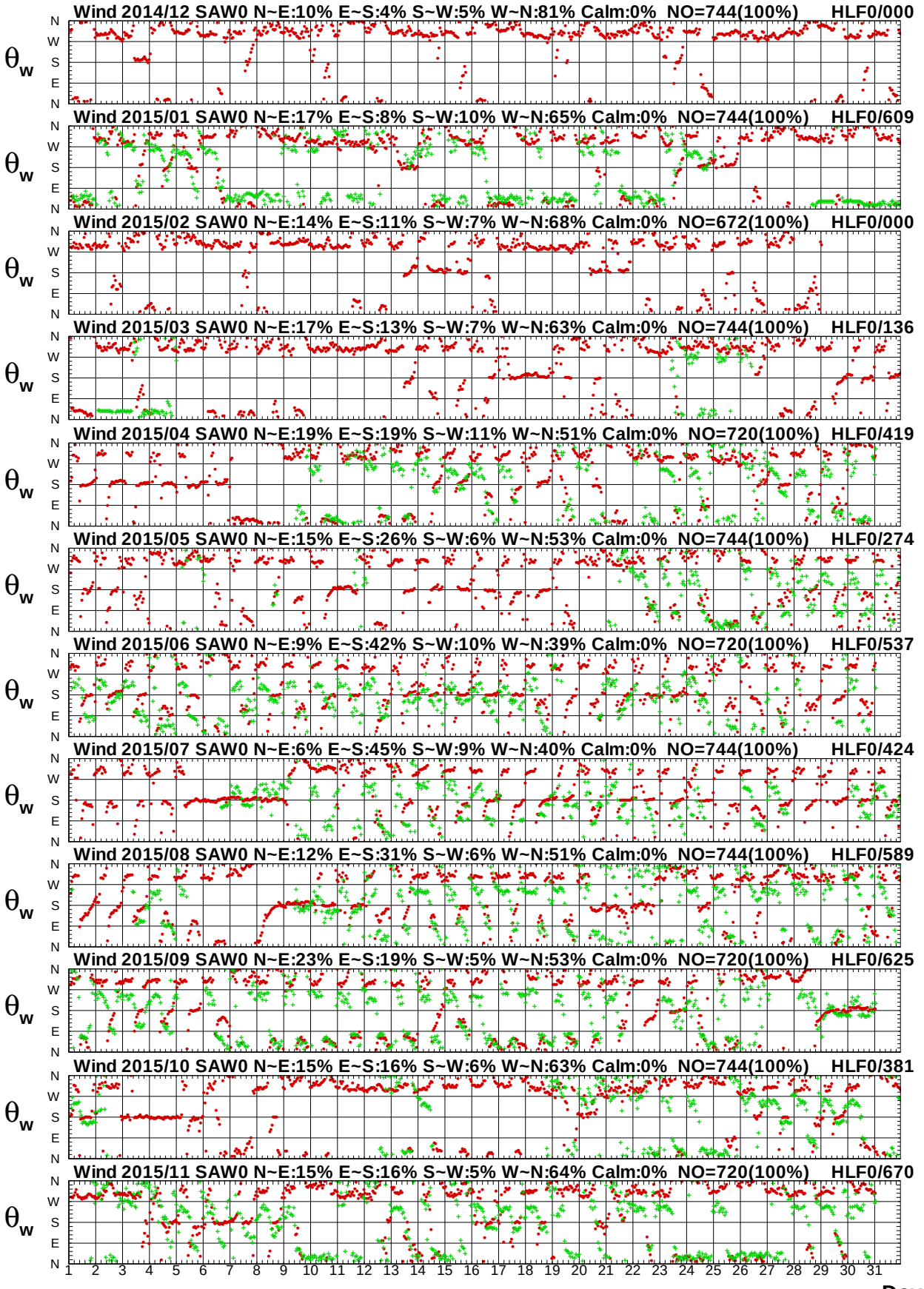

圖 3.19b　2015年每月宜蘭海域 W 站與花蓮海域 F 站風向圖

第四章　2015 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 4。

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 4。

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)。

本風力年報以取經檢核或修補後之**W 站**資料作為**主要觀測站**，2015 年主要觀測站修補前(後)每月觀測之風資料記錄期間統計表，如表 4.1a，2015 年風力**次要觀測站**資料(未補餘)記錄統計表，如表 4.1b，**主要觀測站修補前後**每月風力歷線比較圖，如圖 4.1，**主要觀測站**與**次要觀測站**(或**其他觀測站**)每月風力歷線比較圖，如圖 4.2 以後。

表 4 花蓮海域觀測風力資料蒐集概況表(統計時間至 2015 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	2002/06-2015/11(觀測中)	港研中心	花蓮港
E	23°58'30"N	121°36'47"E	1981/02-2015/11(觀測中)	中央氣象局	花蓮
F	23°58'50"N	121°37'25"E	-2015/11(觀測中)	中央氣象局	花蓮
Y	24°01'58"	121°37'50"E	1997/07-2015/11(觀測中)	中央氣象局	花蓮浮標站
H	23°29'41"	121°30'22"E	2001/11-2015/11(觀測中)	水利署	石梯氣象站

花蓮海域

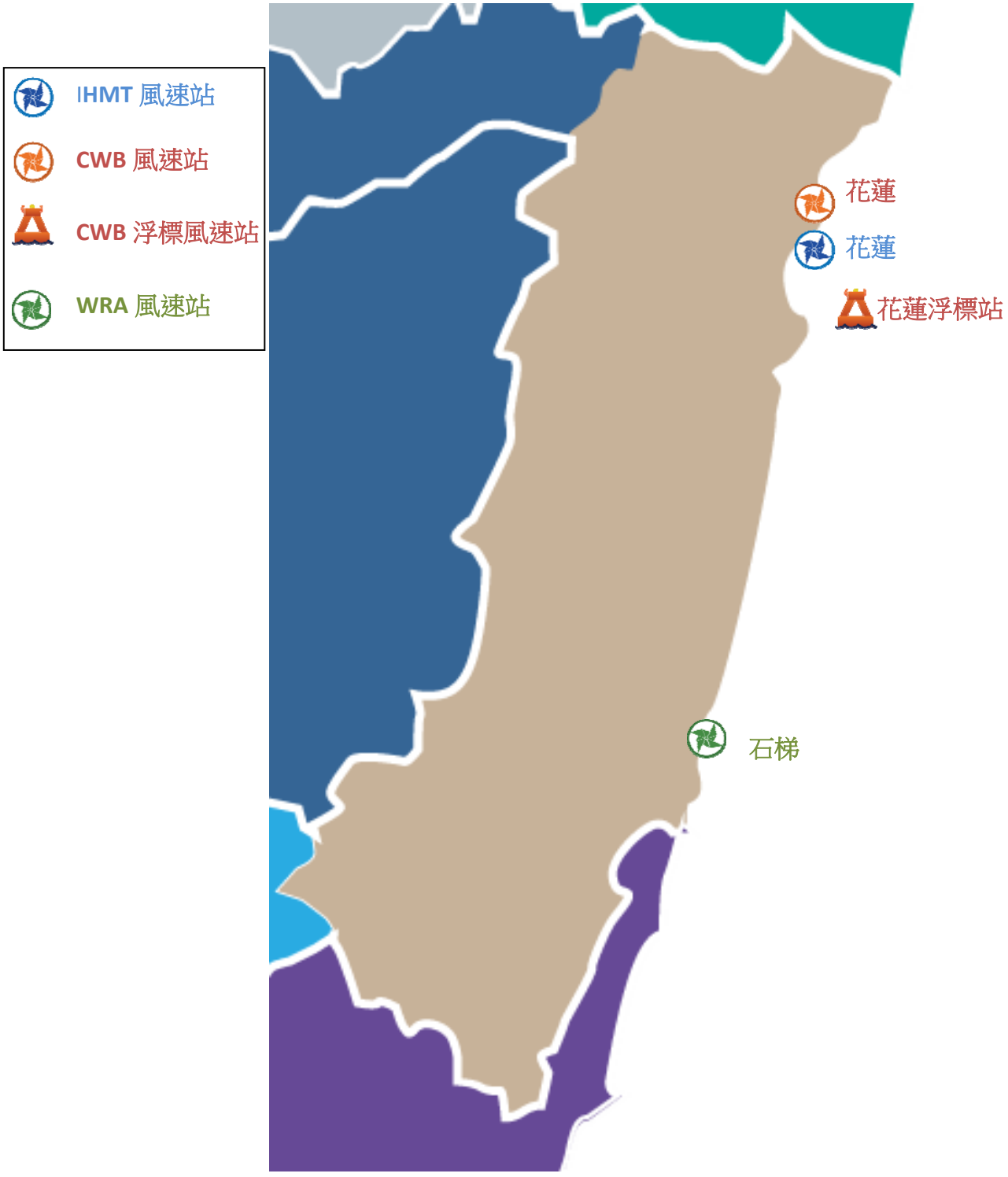

圖 4 花蓮海域風力觀測站位置示意圖

表4.1a 2015年每月花蓮海域修補前各測站觀測風力資料紀錄統計表

年/月 港區	花蓮海域	花蓮海域	花蓮海域	花蓮海域	花蓮海域	花蓮海域	花蓮海域	花蓮海域
測站	W	Y	E	H	F			
2014/12月	744 (100%)	743 (99.9%)	744 (100%)	734 (98.7%)	*	*	*	*
2015/ 1月	744 (100%)	735 (98.8%)	743 (99.9%)	730 (98.1%)	609 (81.9%)	*	*	*
2015/ 2月	672 (100%)	671 (99.9%)	672 (100%)	646 (96.1%)	*	*	*	*
2015/ 3月	744 (100%)	743 (99.9%)	744 (100%)	733 (98.5%)	136 (18.3%)	*	*	*
2015/ 4月	720 (100%)	720 (100%)	720 (100%)	717 (99.6%)	419 (58.2%)	*	*	*
2015/ 5月	744 (100%)	743 (99.9%)	744 (100%)	741 (99.6%)	274 (36.8%)	*	*	*
2015/ 6月	720 (100%)	709 (98.5%)	720 (100%)	715 (99.3%)	537 (74.6%)	*	*	*
2015/ 7月	743 (99.9%)	736 (98.9%)	744 (100%)	350 (47.0%)	424 (57.0%)	*	*	*
2015/ 8月	743 (99.9%)	744 (100%)	744 (100%)	743 (99.9%)	589 (79.2%)	*	*	*
2015/ 9月	720 (100%)	719 (99.9%)	720 (100%)	720 (100%)	625 (86.8%)	*	*	*
2015/10月	744 (100%)	735 (98.8%)	744 (100%)	273 (36.7%)	381 (51.2%)	*	*	*
2015/11月	720 (100%)	719 (99.9%)	720 (100%)	717 (99.6%)	670 (93.1%)	*	*	*
2015/冬季	2160 (100%)	2149 (99.5%)	2159 (100.0%)	2110 (97.7%)	609 (28.2%)	*	*	*
2015/春季	2208 (100%)	2206 (99.9%)	2208 (100%)	2191 (99.2%)	829 (37.5%)	*	*	*
2015/夏季	2206 (99.9%)	2189 (99.1%)	2208 (100%)	1808 (81.9%)	1550 (70.2%)	*	*	*
2015/秋季	2184 (100%)	2173 (99.5%)	2184 (100%)	1710 (78.3%)	1676 (76.7%)	*	*	*
2015/整年	8758 (100.0%)	8717 (99.5%)	8759 (100.0%)	7819 (89.3%)	4664 (53.2%)	*	*	*
起始年月	2014/12	2014/12	2014/12	2014/12	2015/01	*	*	*
結束年月	2015/11	2015/11	2015/11	2015/11	2015/11	*	*	*

表4.1b 2015年每月花蓮海域修補後各測站風力資料統計表

年/月 港區	花蓮海域	花蓮海域	花蓮海域	花蓮海域	花蓮海域	花蓮海域	花蓮海域	花蓮海域
測站	W	Y	E	H	F			
2014/12月	744 (100%)	744 (100%)	744 (100%)	744 (100%)	*	*	*	*
2015/ 1月	744 (100%)	744 (100%)	744 (100%)	744 (100%)	*	*	*	*
2015/ 2月	672 (100%)	672 (100%)	672 (100%)	672 (100%)	*	*	*	*
2015/ 3月	744 (100%)	744 (100%)	744 (100%)	744 (100%)	*	*	*	*
2015/ 4月	720 (100%)	720 (100%)	720 (100%)	720 (100%)	*	*	*	*
2015/ 5月	744 (100%)	744 (100%)	744 (100%)	744 (100%)	*	*	*	*
2015/ 6月	720 (100%)	720 (100%)	720 (100%)	720 (100%)	*	*	*	*
2015/ 7月	744 (100%)	744 (100%)	744 (100%)	744 (100%)	*	*	*	*
2015/ 8月	744 (100%)	744 (100%)	744 (100%)	744 (100%)	*	*	*	*
2015/ 9月	720 (100%)	720 (100%)	720 (100%)	720 (100%)	*	*	*	*
2015/10月	744 (100%)	744 (100%)	744 (100%)	744 (100%)	*	*	*	*
2015/11月	720 (100%)	720 (100%)	720 (100%)	720 (100%)	*	*	*	*
2015/冬季	2160 (100%)	2160 (100%)	2160 (100%)	2160 (100%)	*	*	*	*
2015/春季	2208 (100%)	2208 (100%)	2208 (100%)	2208 (100%)	*	*	*	*
2015/夏季	2208 (100%)	2208 (100%)	2208 (100%)	2208 (100%)	*	*	*	*
2015/秋季	2184 (100%)	2184 (100%)	2184 (100%)	2184 (100%)	*	*	*	*
2015/整年	8760 (100%)	8760 (100%)	8760 (100%)	8760 (100%)	*	*	*	*
起始年月	2014/12	2014/12	2014/12	2014/12	*	*	*	*
結束年月	2015/11	2015/11	2015/11	2015/11	*	*	*	*

Wind Speed in Hua-Lien Seas of HLW0 at 2015

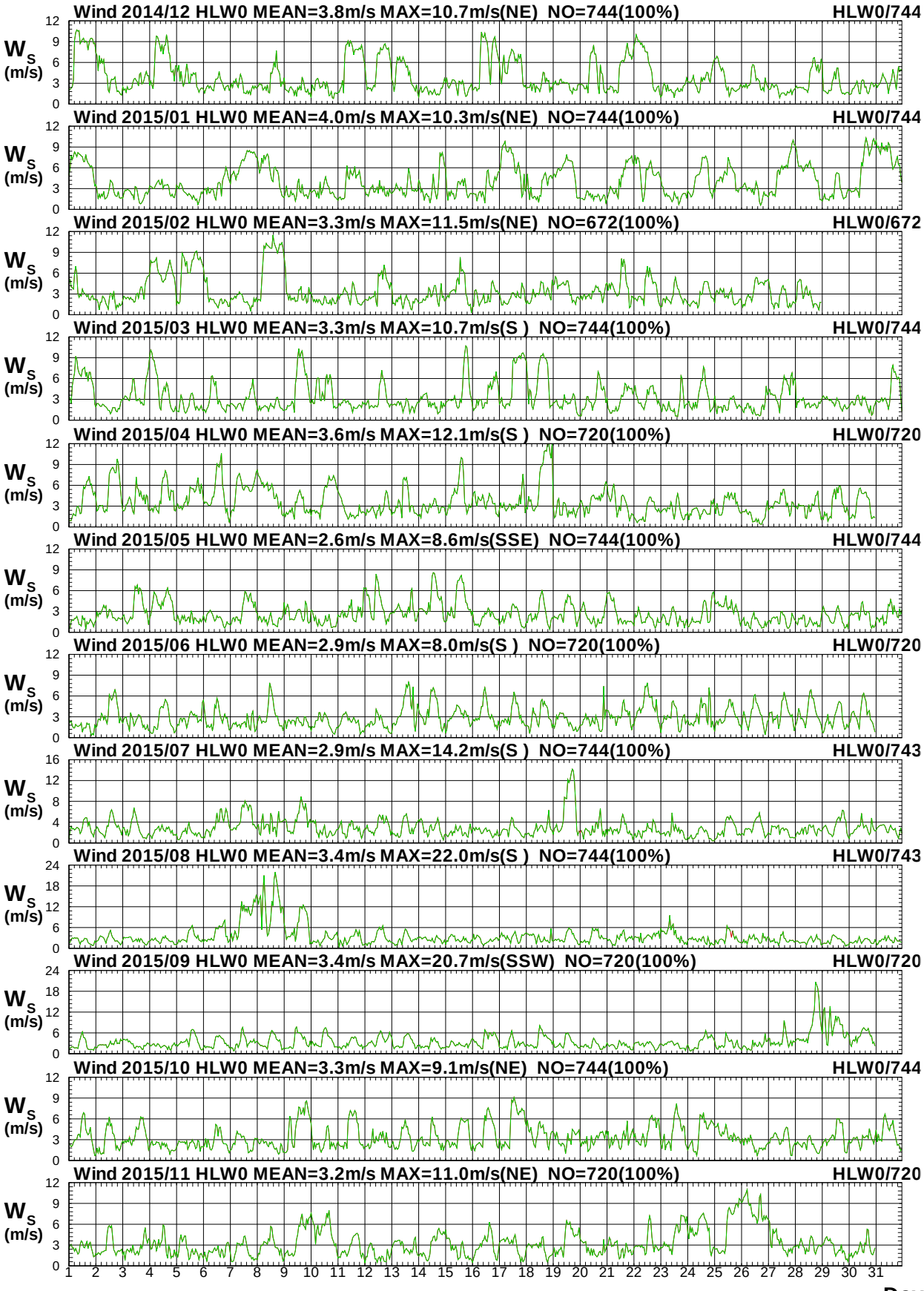

圖 4.1a　2015年每月花蓮海域 W 站修補前後之風速比較圖

Wind Direction in Hua-Lien Seas of HLW0 at 2015

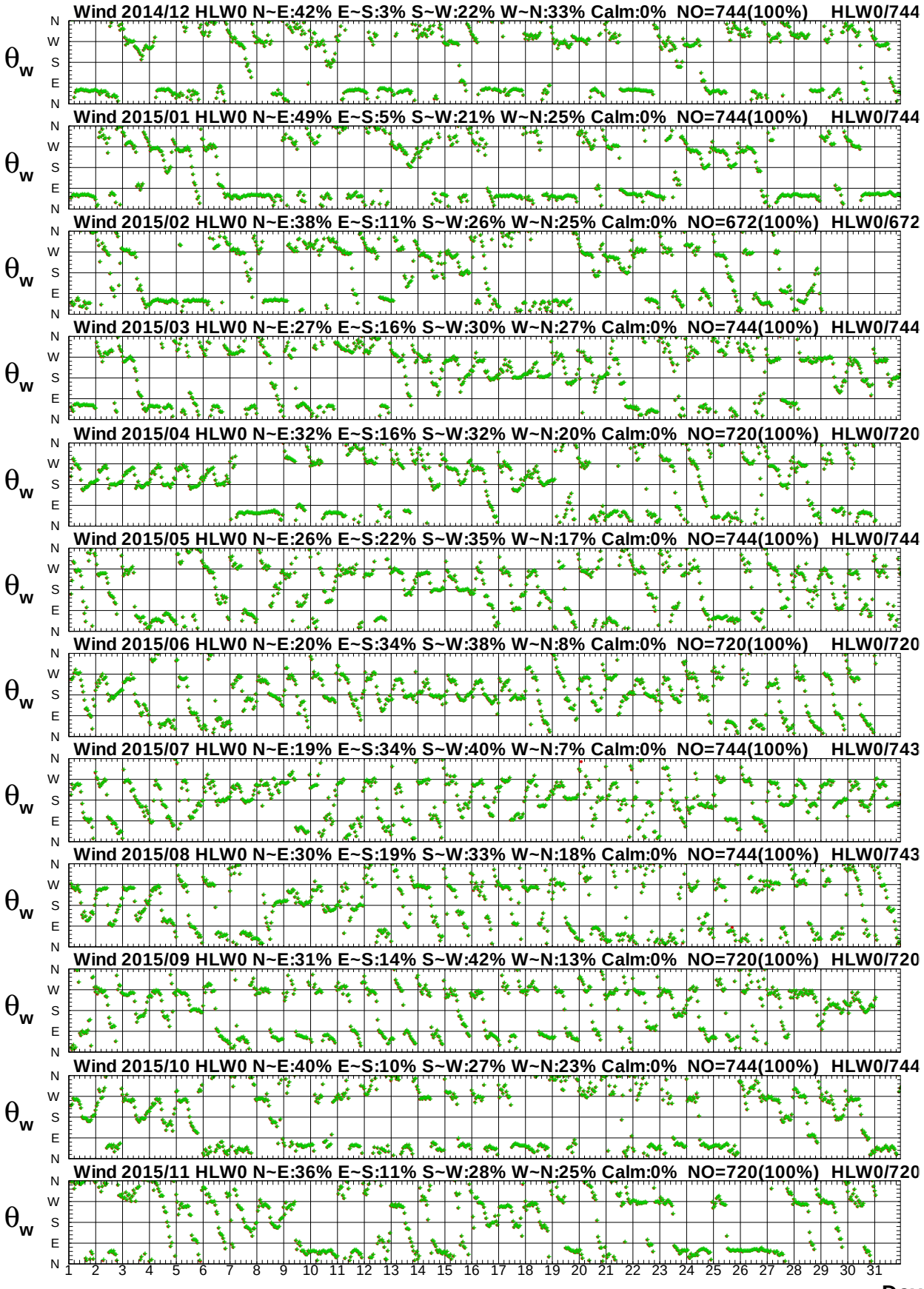

圖 4.1b　2015年每月花蓮海域 W 站修補前後之風向比較圖

Wind Speed in Hua-Lien Seas of HLW0 at 2015

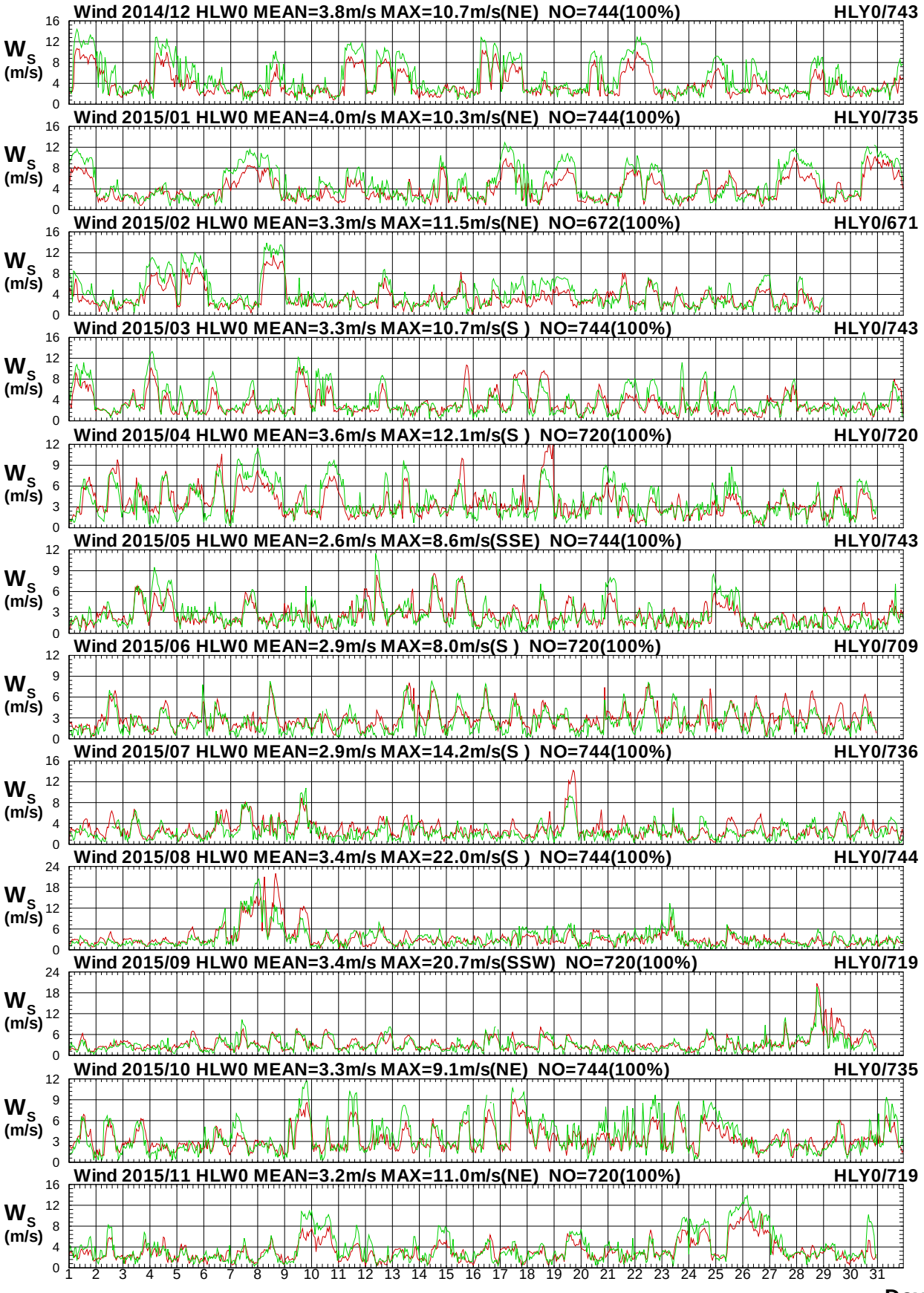

圖 4.2a　2015年每月花蓮海域 W 站與 Y 站風速比較圖

W14CHLW0.1HA W14CHLY0.1H0 W151HLW0.1HA W151HLY0.1H0 W152HLW0.1HA W152HLY0.1H0
W153HLW0.1HA W153HLY0.1H0 W154HLW0.1HA W154HLY0.1H0 W155HLW0.1HA W155HLY0.1H0

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Wind Direction in Hua-Lien Seas of HLW0 at 2015

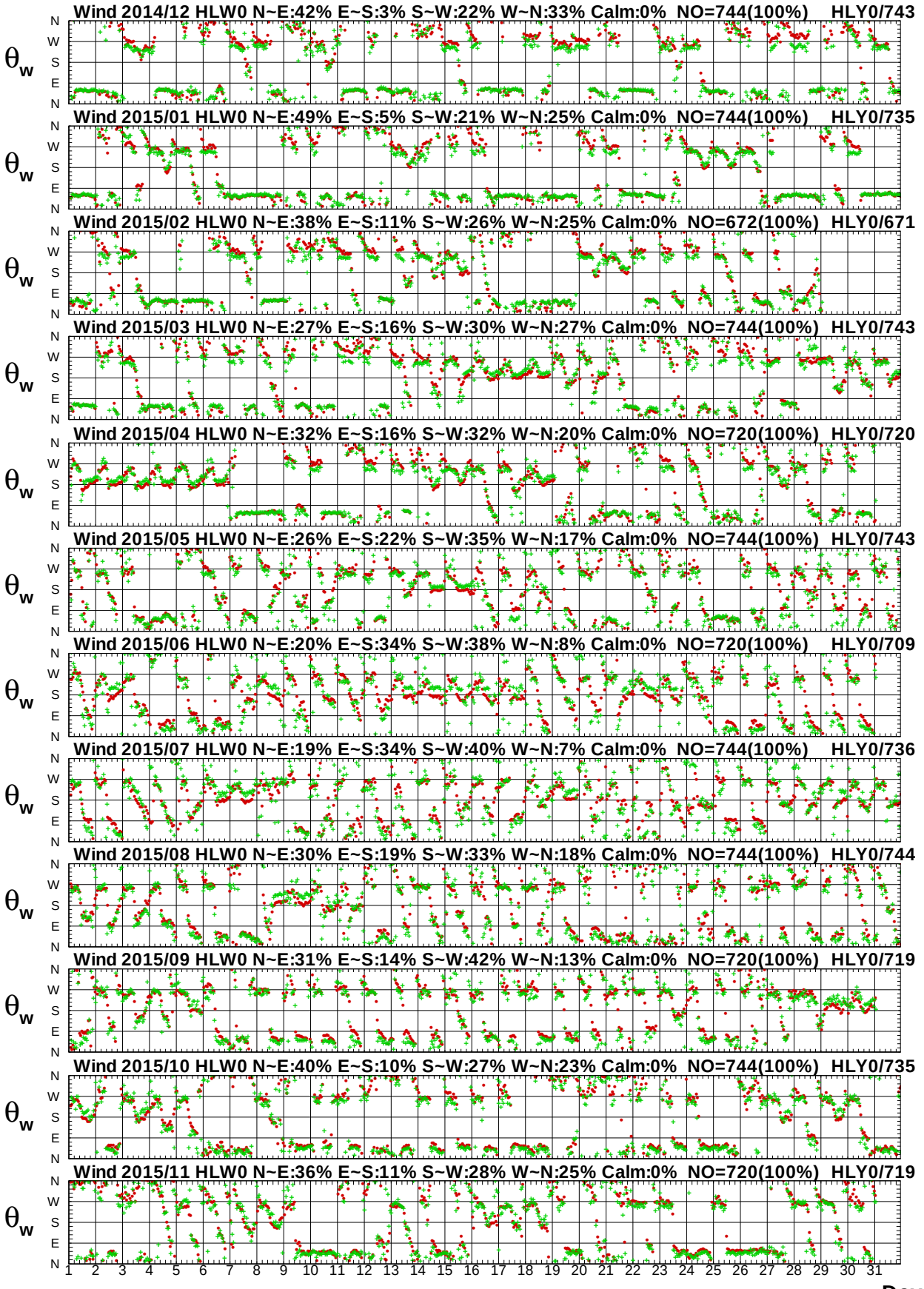

圖 4.2b　2015年每月花蓮海域 W 站與 Y 站風向比較圖

Wind Speed in Hua-Lien Seas of HLW0 at 2015

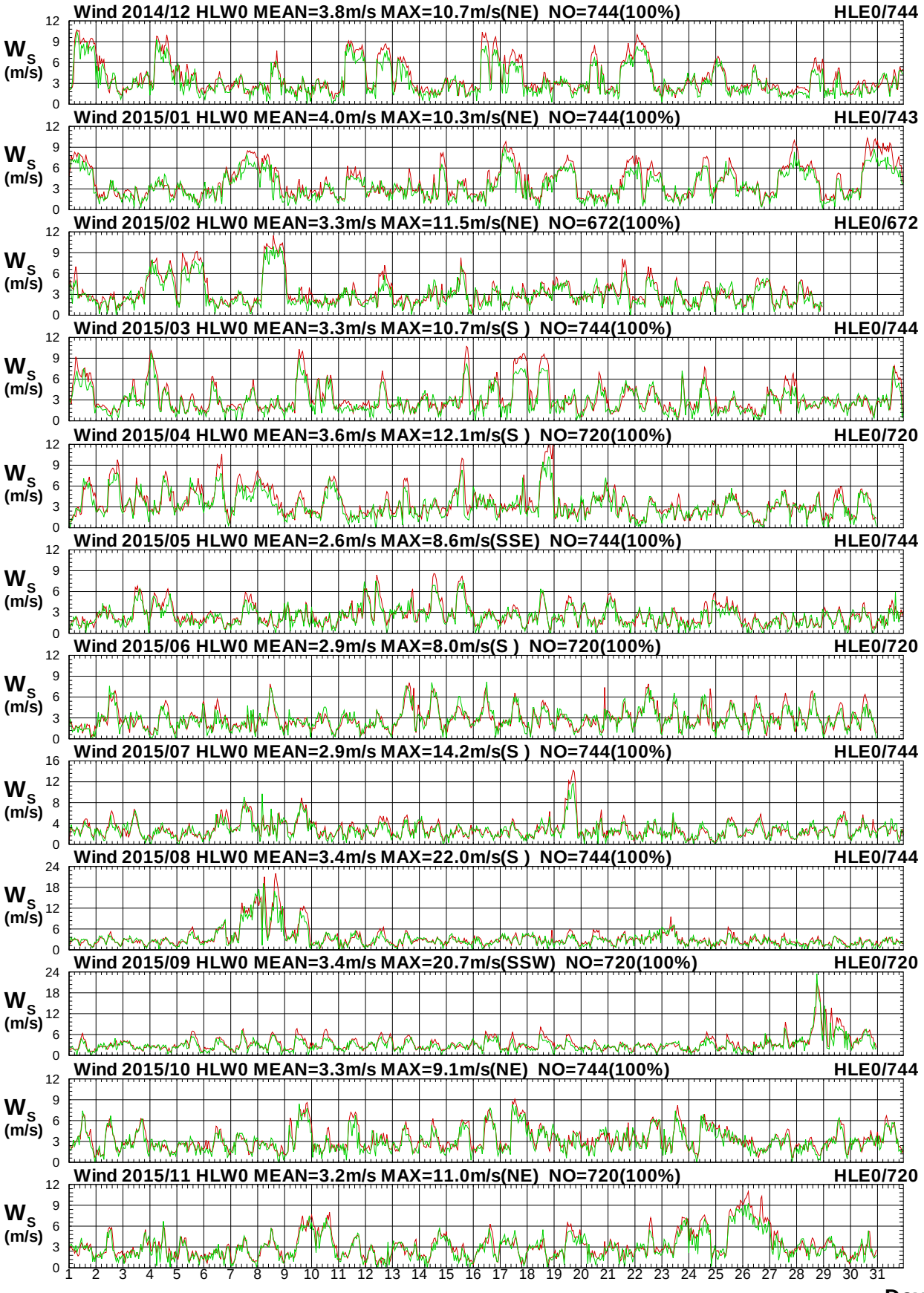

圖 4.3a　2015年每月花蓮海域 W 站與 E 站風速比較圖

Wind Direction in Hua-Lien Seas of HLW0 at 2015

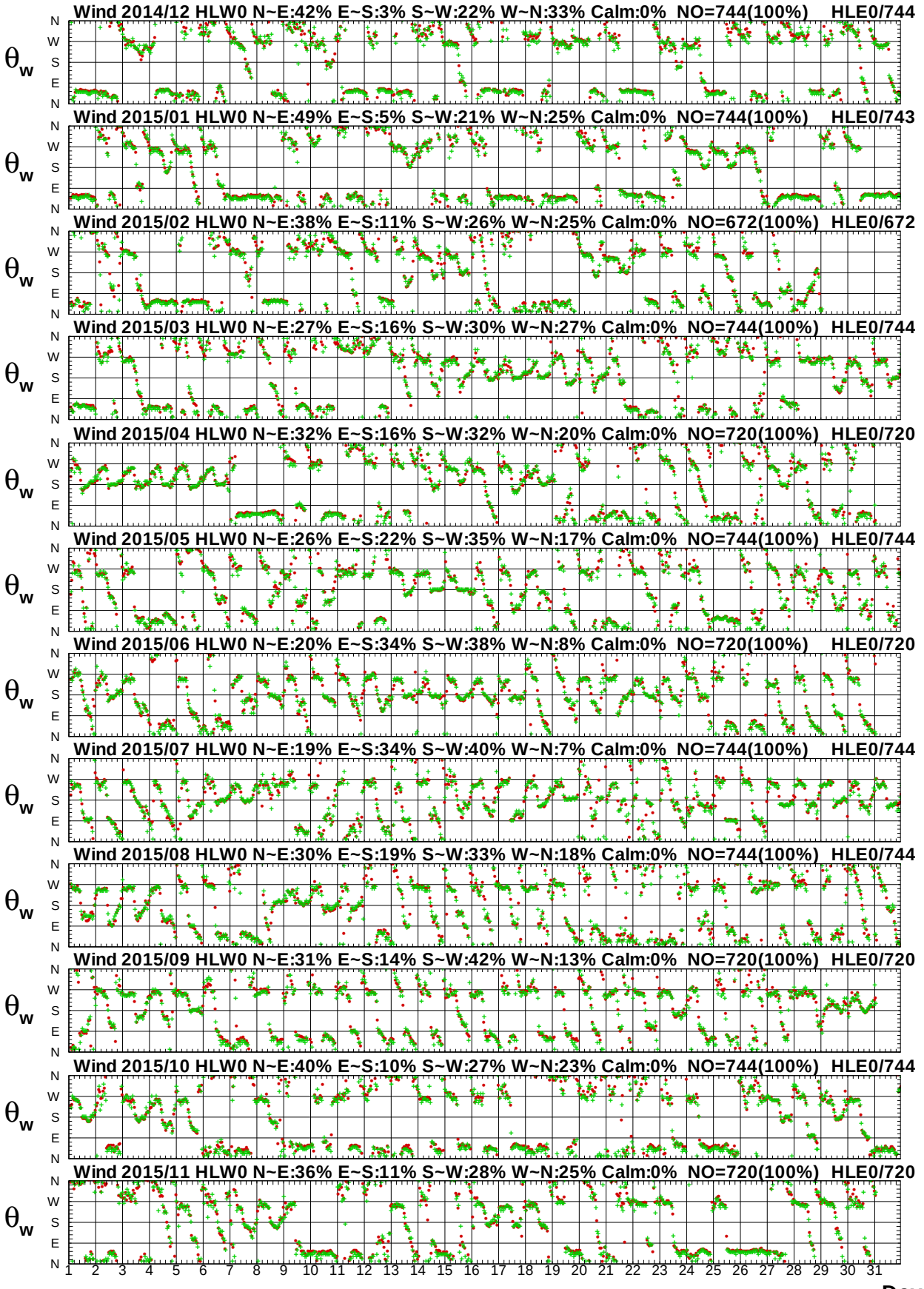

圖 4.3b　2015年每月花蓮海域 W 站與 E 站風向比較圖

Wind Speed in Hua-Lien Seas of HLW0 at 2015

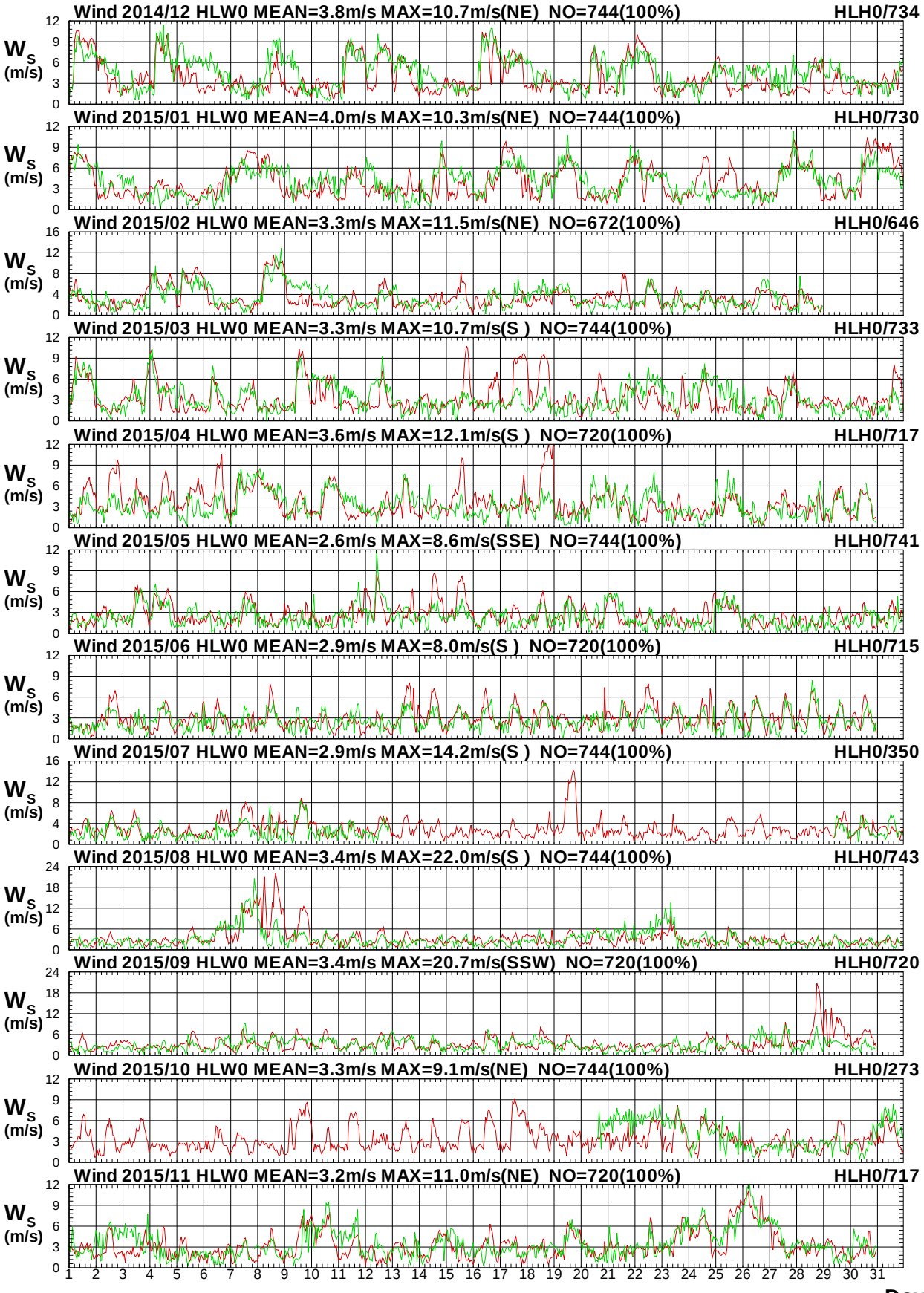

圖 4.4a　2015年每月花蓮海域 W 站與 H 站風速比較圖

W14CHLW0.1HA W14CHLH0.1H0 W151HLW0.1HA W151HLH0.1H0 W152HLW0.1HA W152HLH0.1H0
W153HLW0.1HA W153HLH0.1H0 W154HLW0.1HA W154HLH0.1H0 W155HLW0.1HA W155HLH0.1H0

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Wind Direction in Hua-Lien Seas of HLW0 at 2015

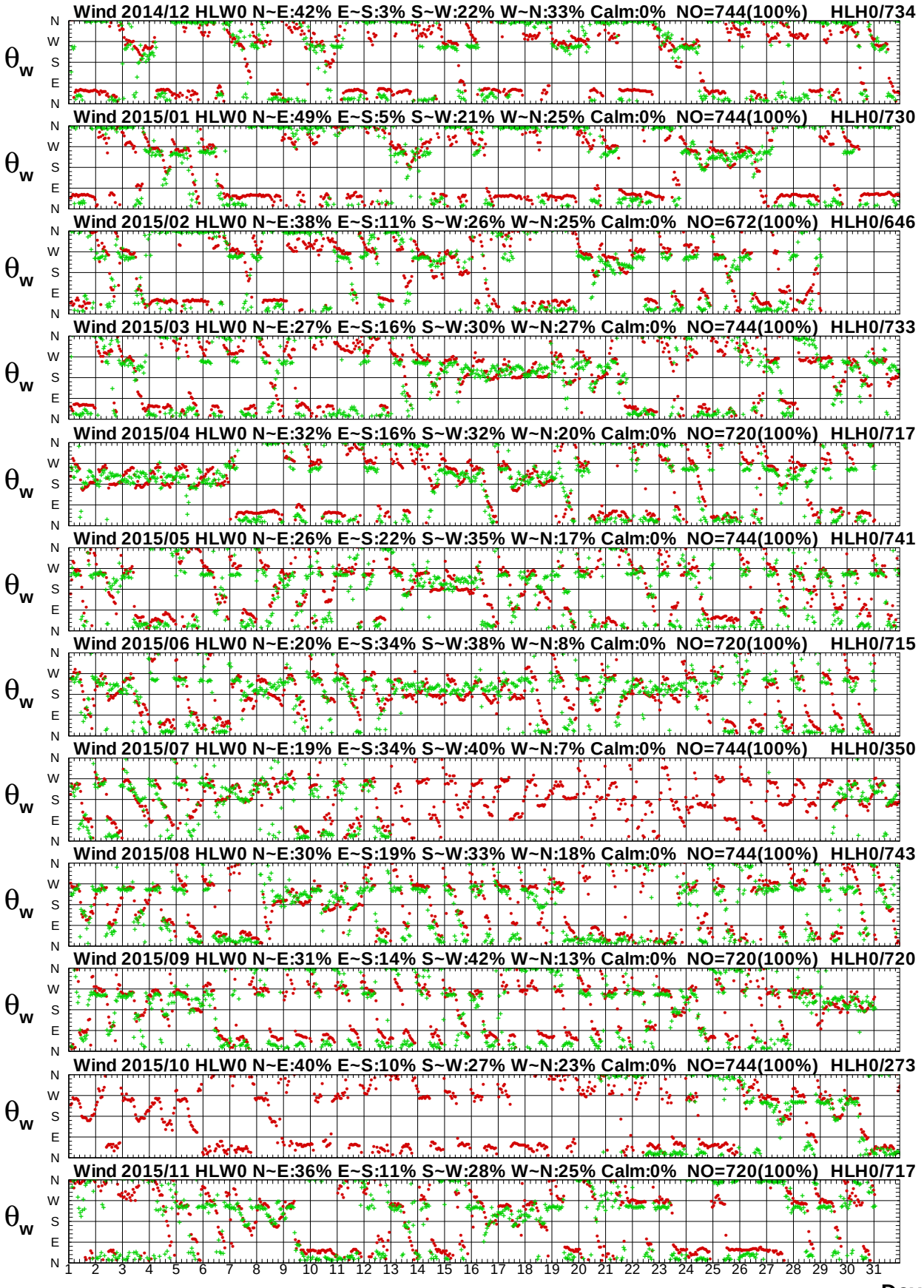

圖 4.4b　2015年每月花蓮海域 W 站與 H 站風向比較圖

Wind Speed in Hua-Lien Seas of HLW0 at 2015

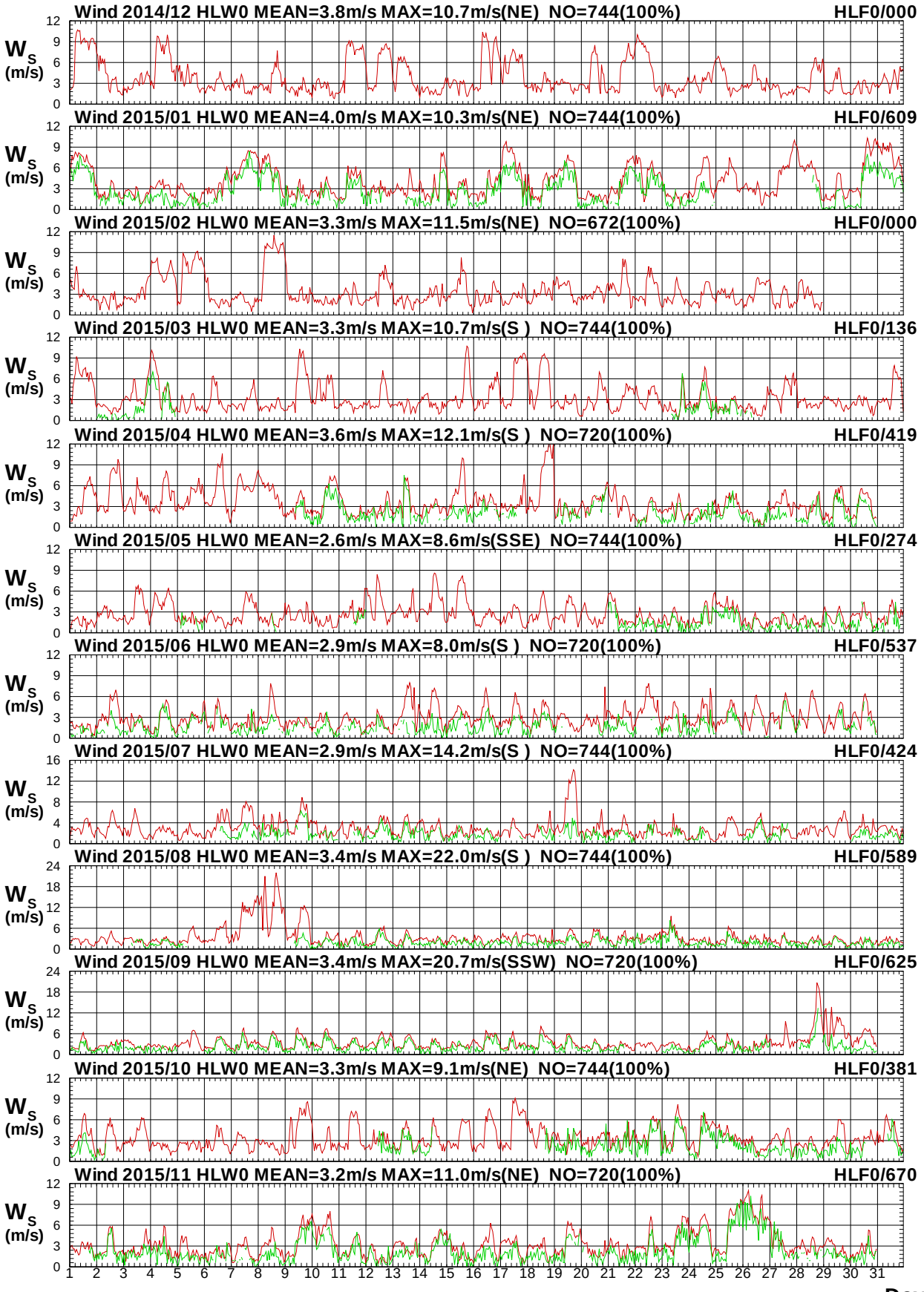

圖 4.5a　2015年每月花蓮海域 W 站與 F 站風速比較圖

W14CHLW0.1HA W14CHLF0.1H0 W151HLW0.1HA W151HLF0.1H0 W152HLW0.1HA W152HLF0.1H0
W153HLW0.1HA W153HLF0.1H0 W154HLW0.1HA W154HLF0.1H0 W155HLW0.1HA W155HLF0.1H0

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Wind Direction in Hua-Lien Seas of HLW0 at 2015

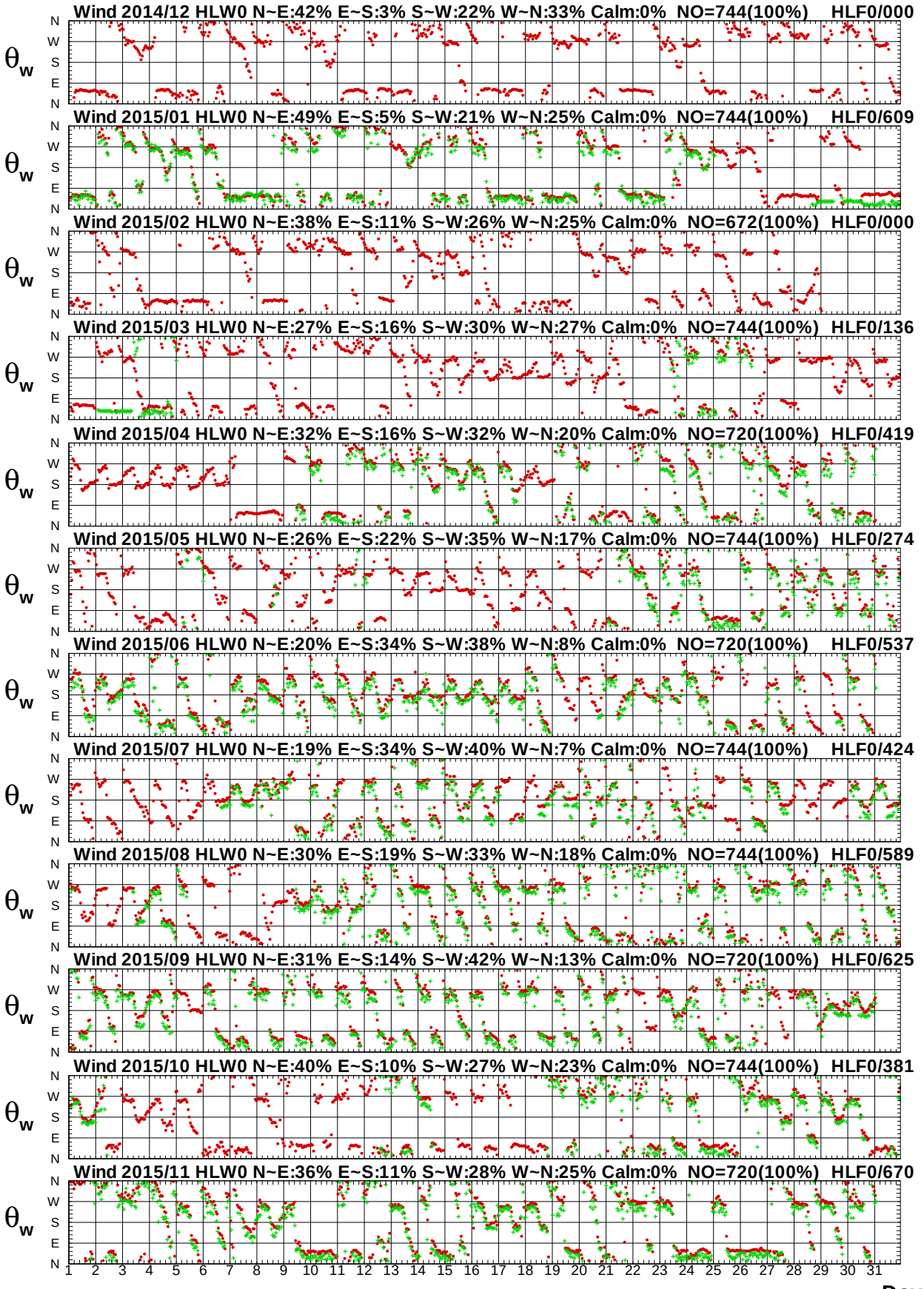

圖 4.5b　2015年每月花蓮海域 W 站與 F 站風向比較圖

Wind Speed in Hua-Lien Seas of HLW0 at 2015

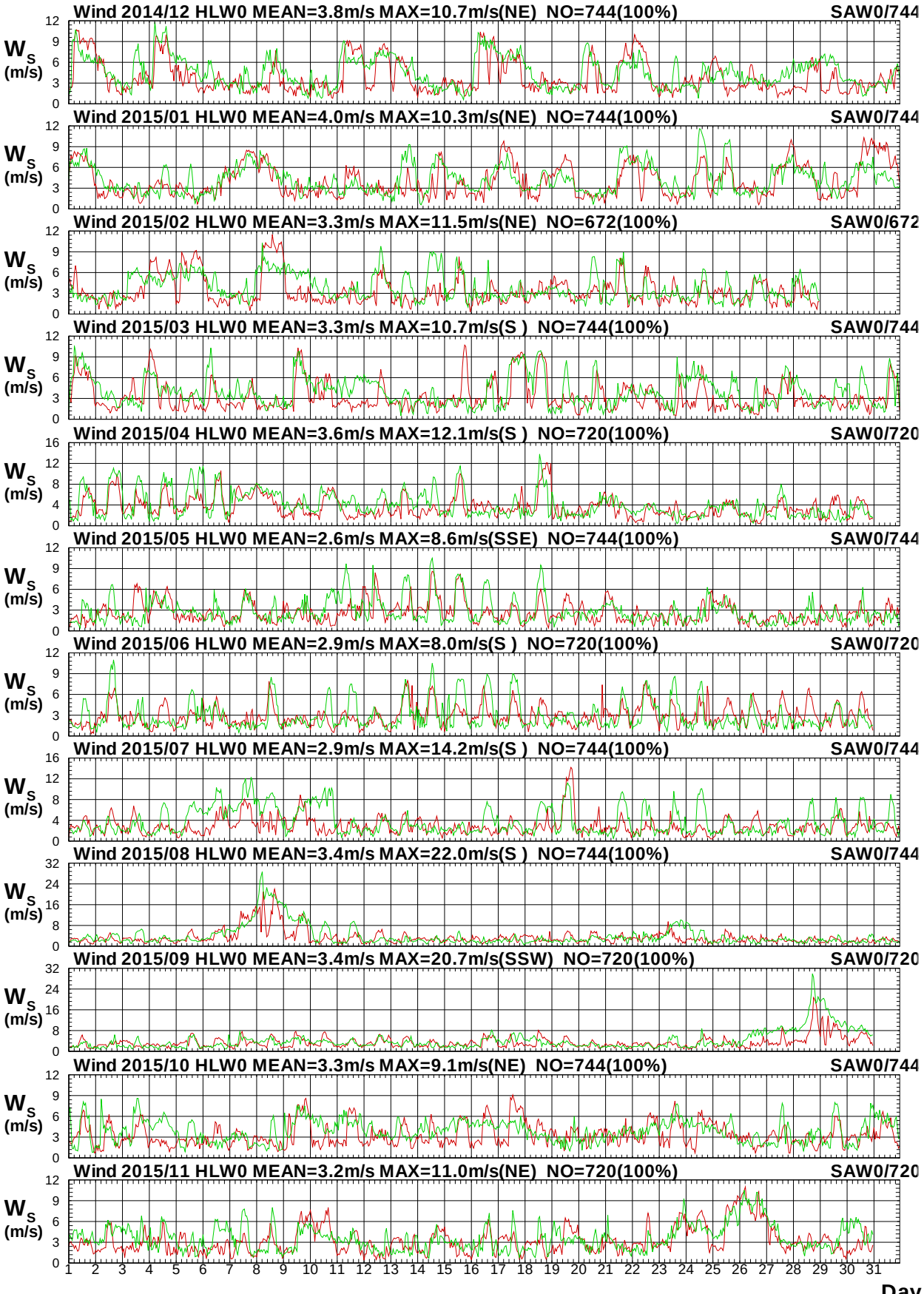

圖 4.6a　2015年每月花蓮海域 W 站與宜蘭海域 W 站風速圖

W14CHLW0.1HA W14CSAW0.1H0 W151HLW0.1HA W151SAW0.1H0 W152HLW0.1HA W152SAW0.1H0
W153HLW0.1HA W153SAW0.1H0 W154HLW0.1HA W154SAW0.1H0 W155HLW0.1HA W155SAW0.1H0

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Wind Direction in Hua-Lien Seas of HLW0 at 2015

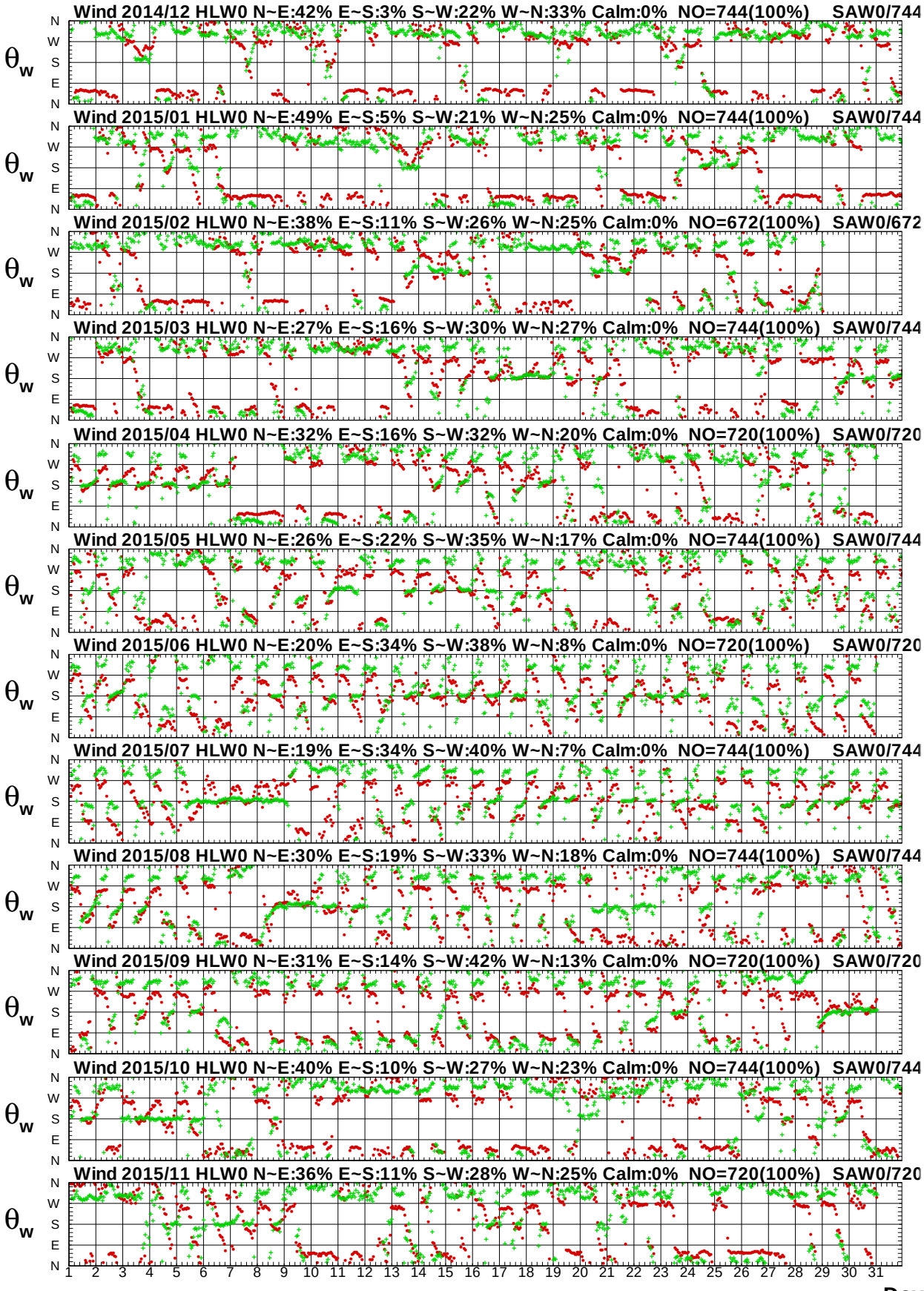

圖 4.6b　2015年每月花蓮海域 W 站與宜蘭海域 W 站風向圖

Wind Speed in Hua-Lien Seas of HLW0 at 2015

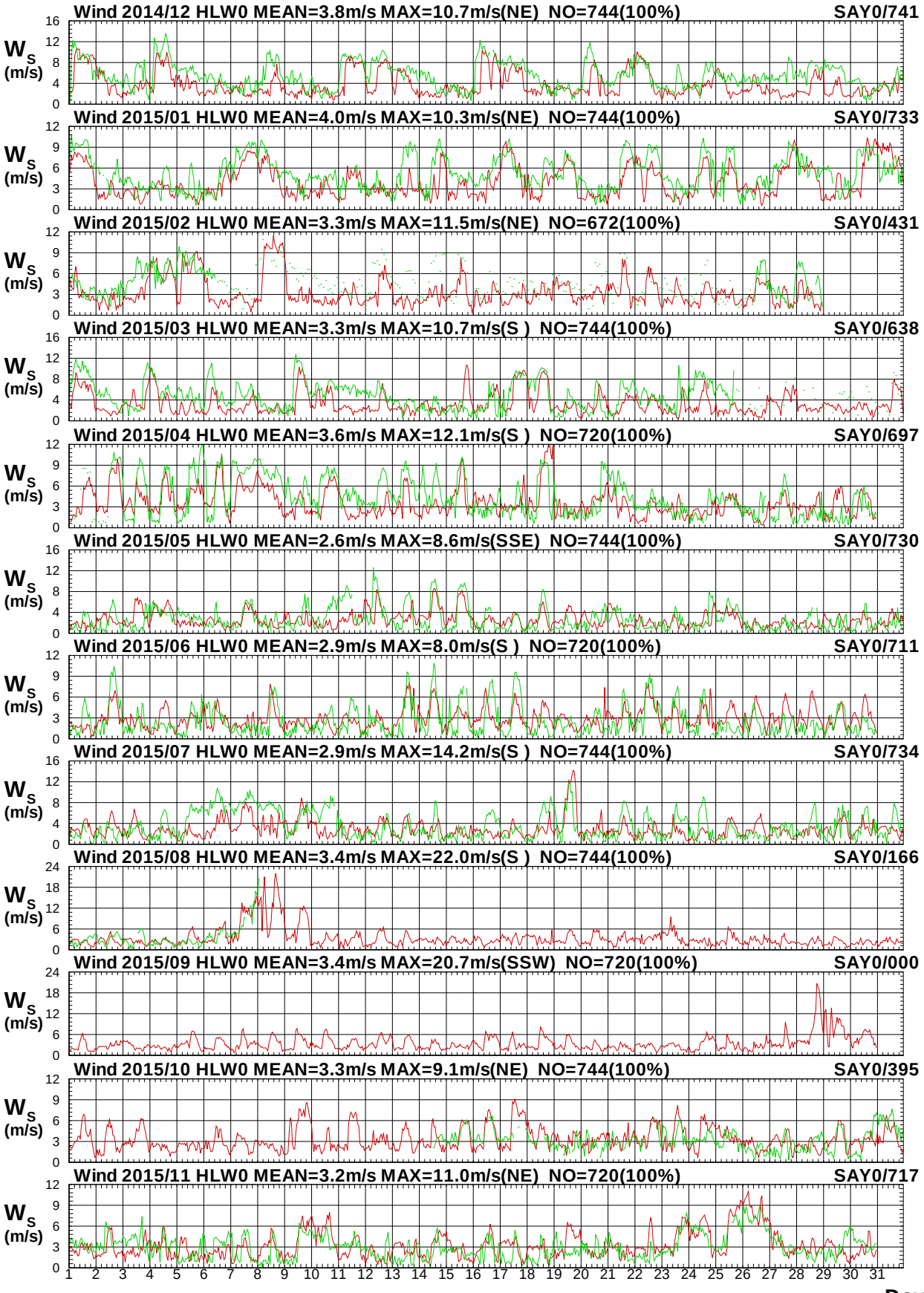

圖4.7a　2015年每月花蓮海域 W 站與宜蘭海域 Y 站風速圖

W14CHLW0.1HA W14CSAY0.1H0 W151HLW0.1HA W151SAY0.1H0 W152HLW0.1HA W152SAY0.1H0
W153HLW0.1HA W153SAY0.1H0 W154HLW0.1HA W154SAY0.1H0 W155HLW0.1HA W155SAY0.1H0

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Wind Direction in Hua-Lien Seas of HLW0 at 2015

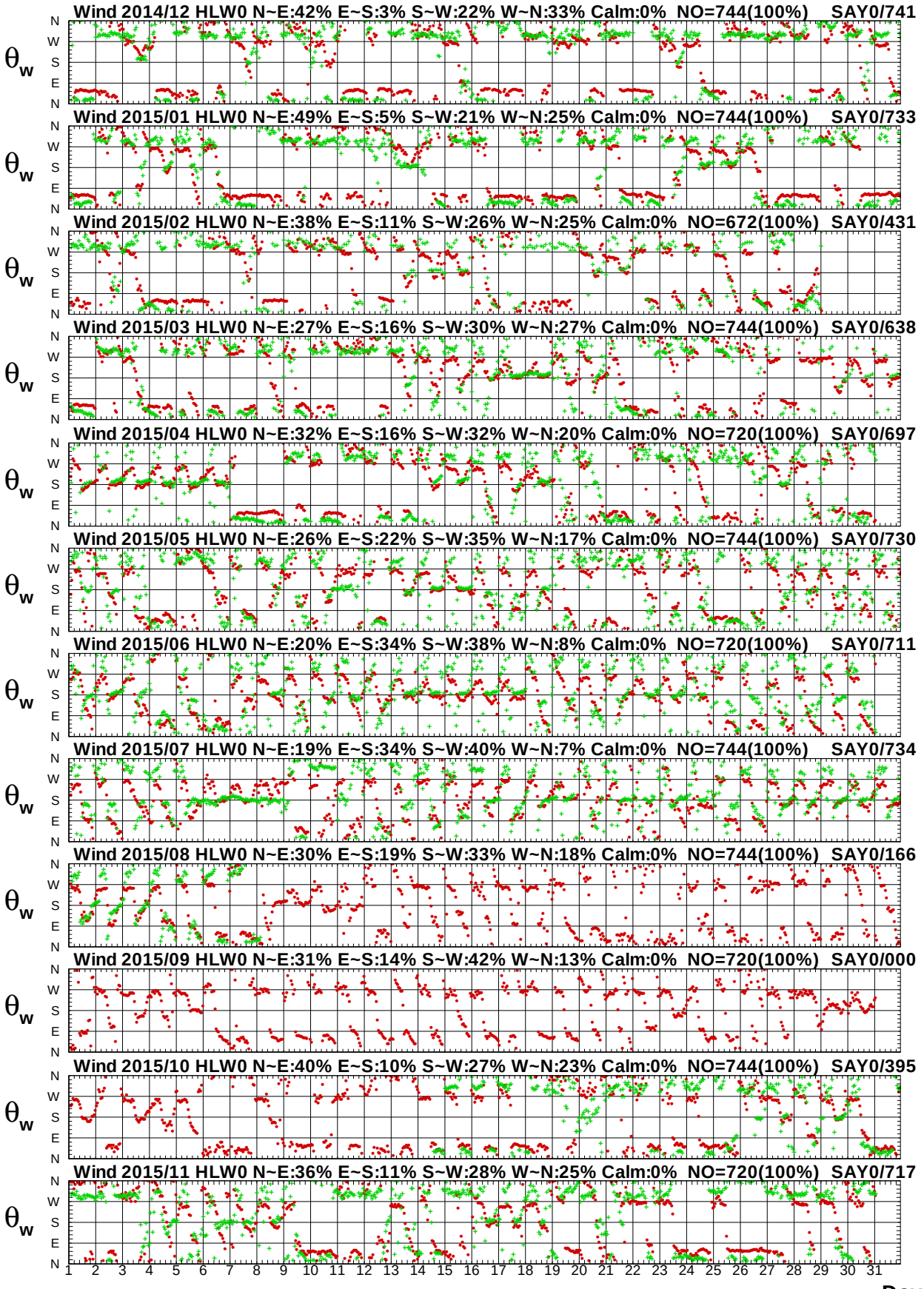

圖4.7b　2015年每月花蓮海域 W 站與宜蘭海域 Y 站風向圖

Wind Speed in Hua-Lien Seas of HLW0 at 2015

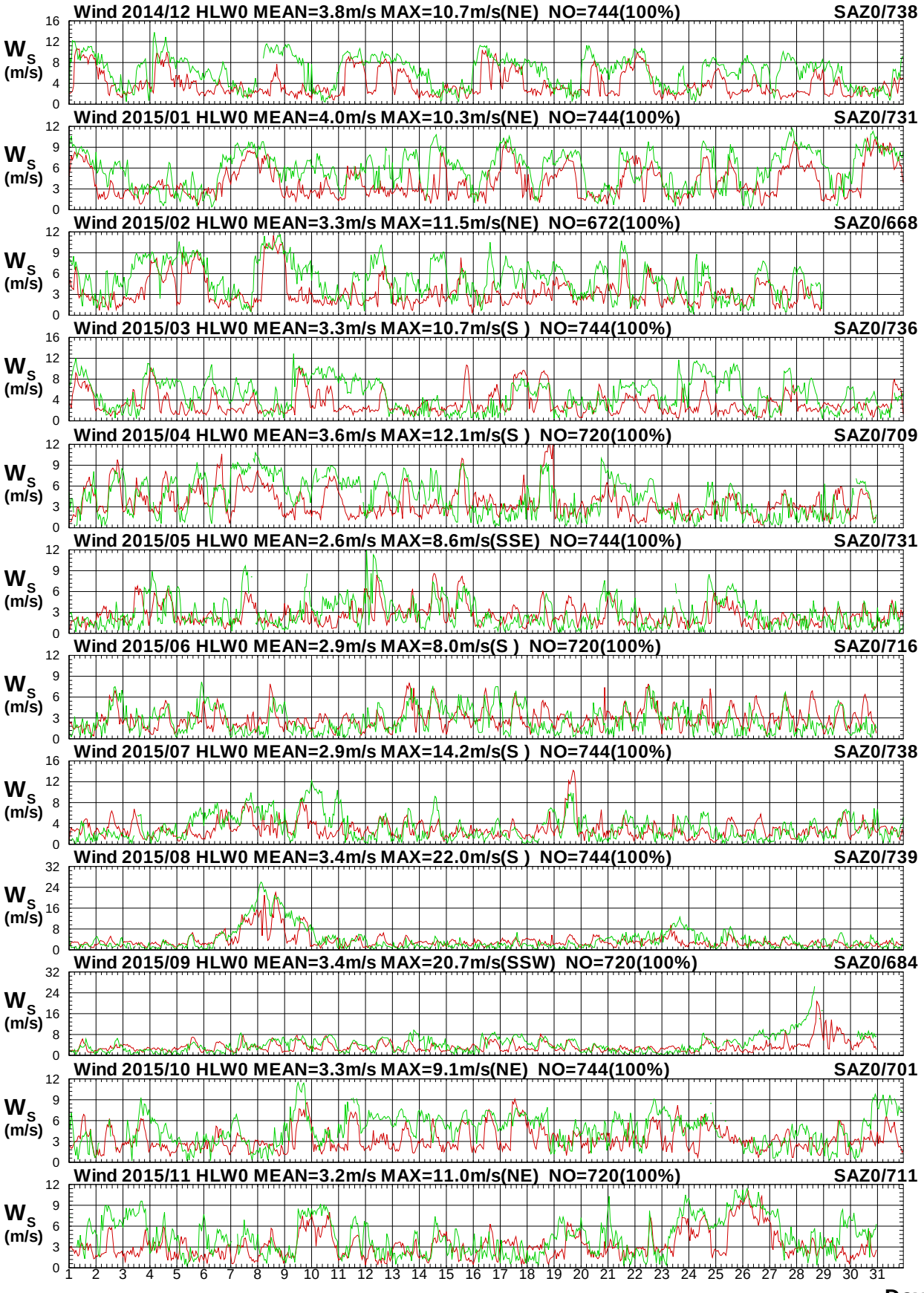

圖 4.8a　2015年每月花蓮海域 W 站與宜蘭海域 Z 站風速圖

W14CHLW0.1HA W14CSAZ0.1H0 W151HLW0.1HA W151SAZ0.1H0 W152HLW0.1HA W152SAZ0.1H0
W153HLW0.1HA W153SAZ0.1H0 W154HLW0.1HA W154SAZ0.1H0 W155HLW0.1HA W155SAZ0.1H0

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Wind Direction in Hua-Lien Seas of HLW0 at 2015

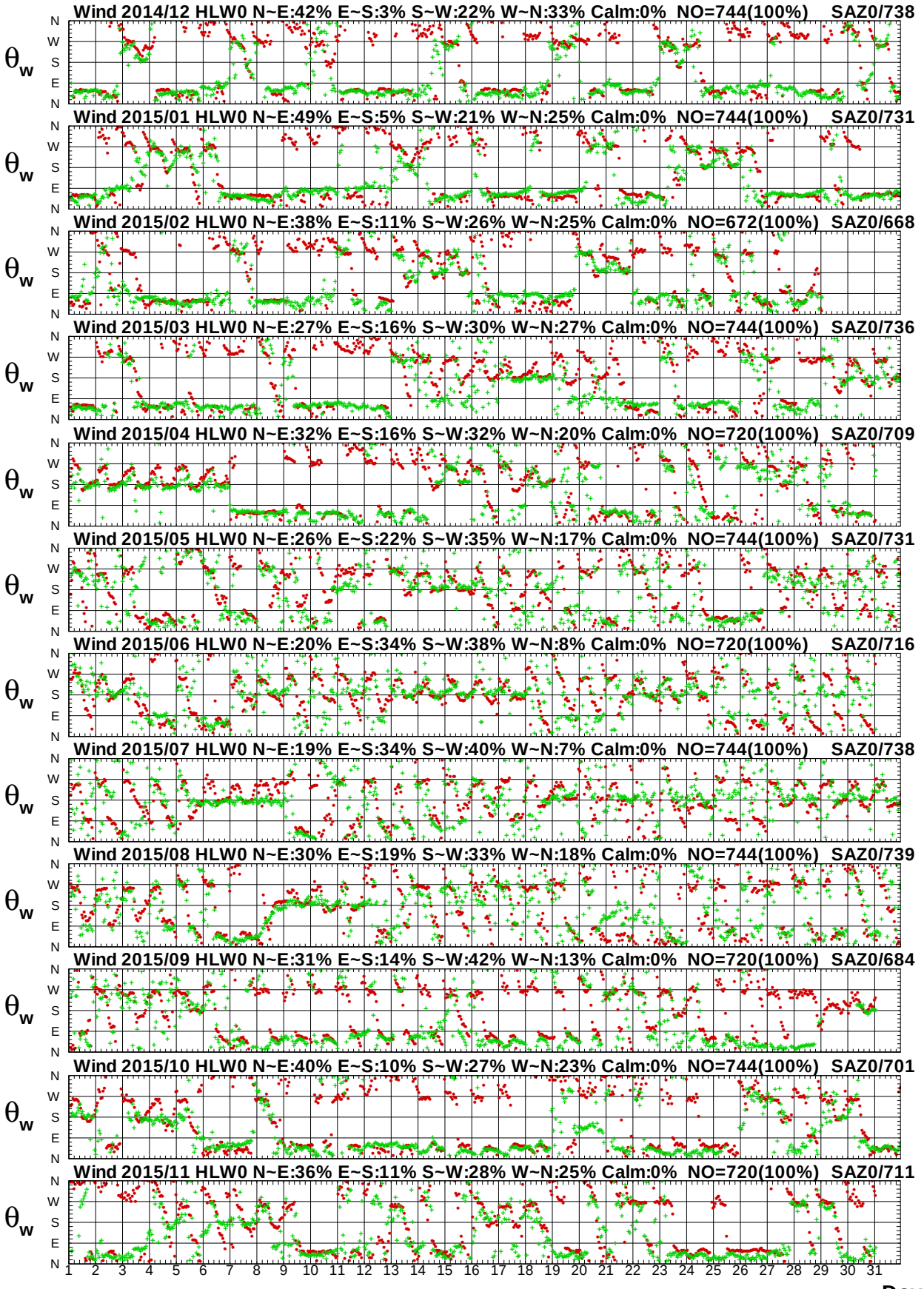

圖4.8b　2015年每月花蓮海域 W 站與宜蘭海域 Z 站風向圖

Wind Speed in Hua-Lien Seas of HLW0 at 2015

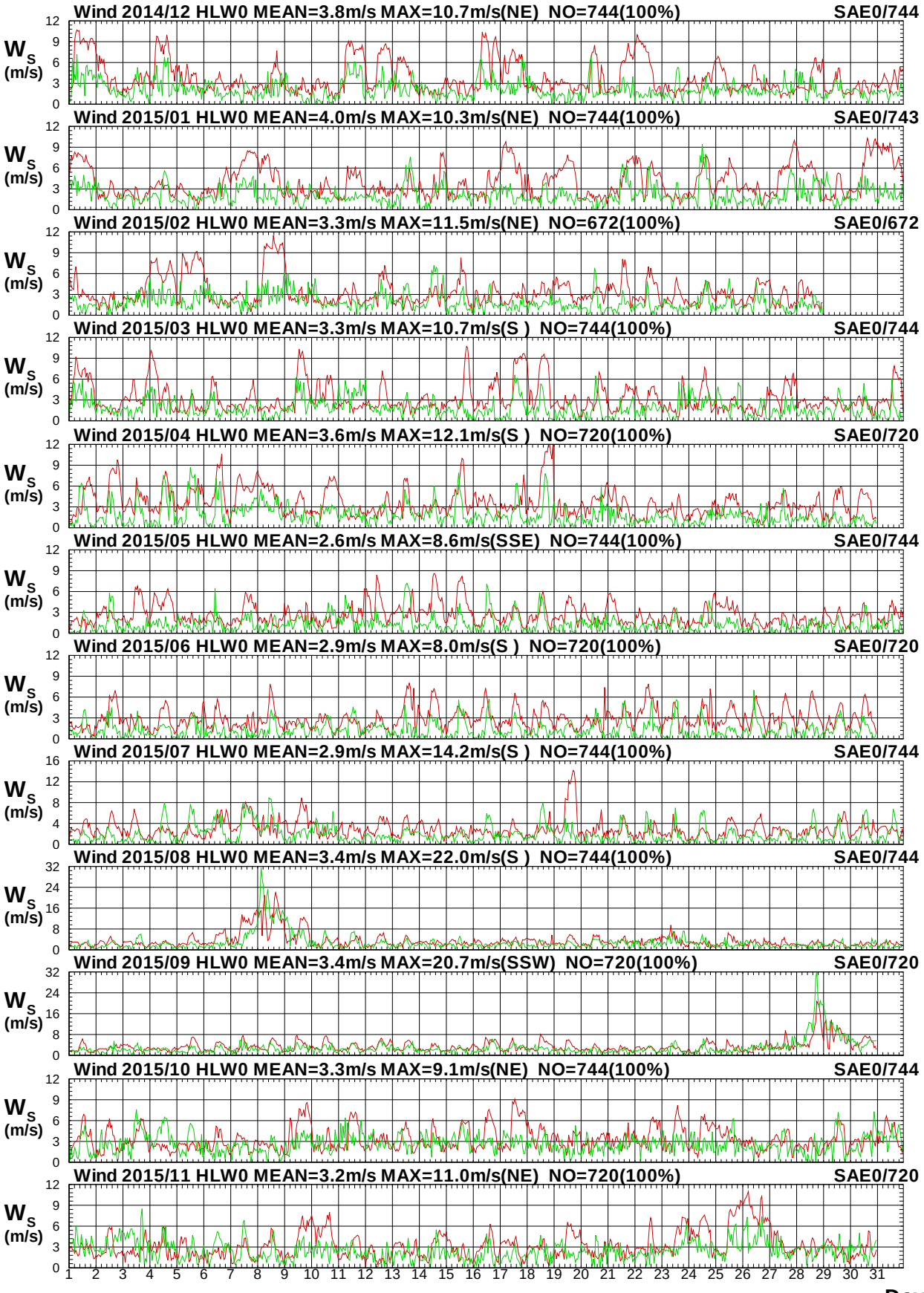

圖 4.9a　2015年每月花蓮海域 W 站與宜蘭海域 E 站風速圖

W14CHLW0.1HA W14CSAE0.1H0 W151HLW0.1HA W151SAE0.1H0 W152HLW0.1HA W152SAE0.1H0
W153HLW0.1HA W153SAE0.1H0 W154HLW0.1HA W154SAE0.1H0 W155HLW0.1HA W155SAE0.1H0

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Wind Direction in Hua-Lien Seas of HLW0 at 2015

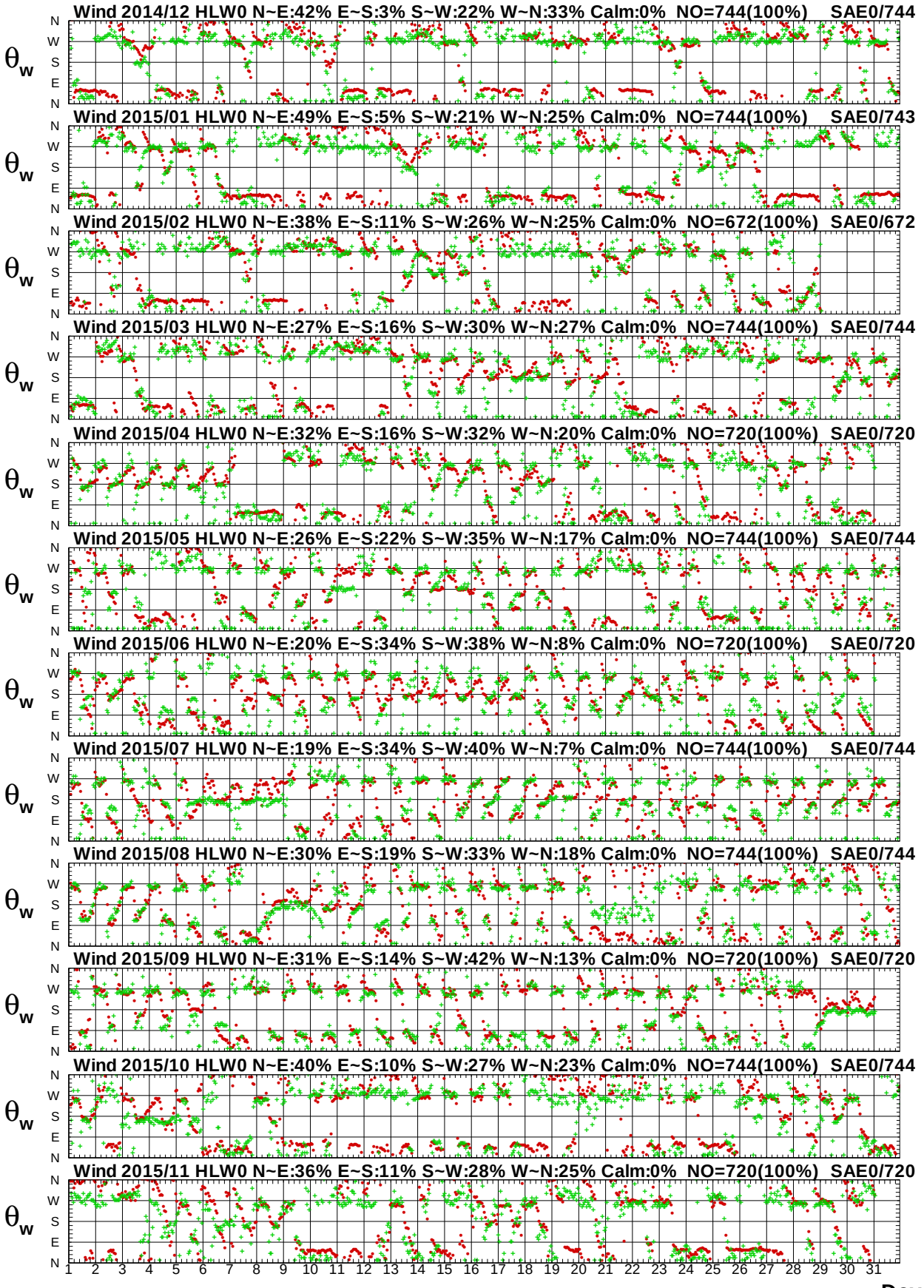

圖4.9b　2015年每月花蓮海域 W 站與宜蘭海域 E 站風向圖

Wind Speed in Hua-Lien Seas of HLW0 at 2015

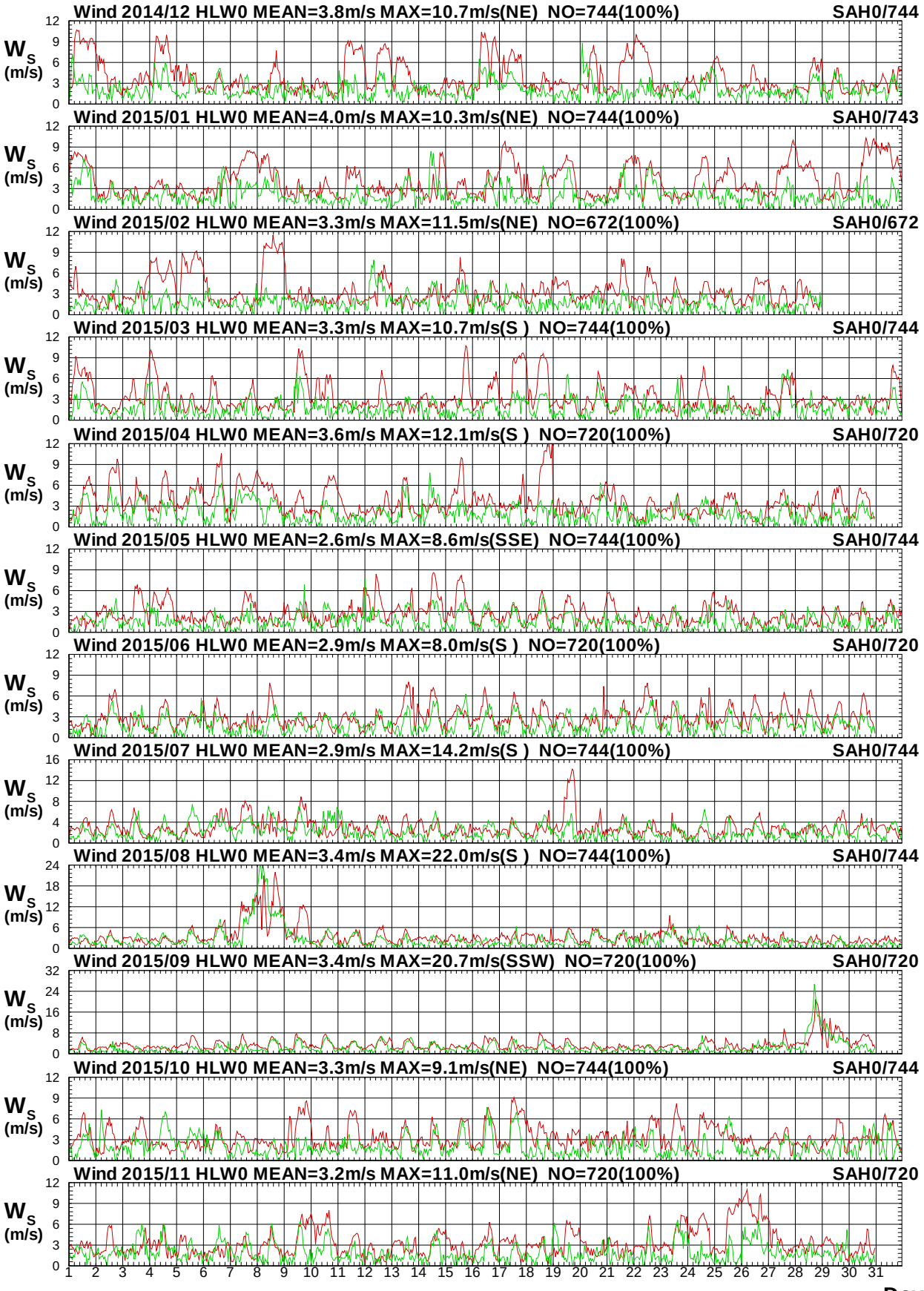

圖 4.10a　2015年每月花蓮海域 W 站與宜蘭海域 H 站風速圖

W14CHLW0.1HA W14CSAH0.1H0 W151HLW0.1HA W151SAH0.1H0 W152HLW0.1HA W152SAH0.1H0
W153HLW0.1HA W153SAH0.1H0 W154HLW0.1HA W154SAH0.1H0 W155HLW0.1HA W155SAH0.1H0

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Wind Direction in Hua-Lien Seas of HLW0 at 2015

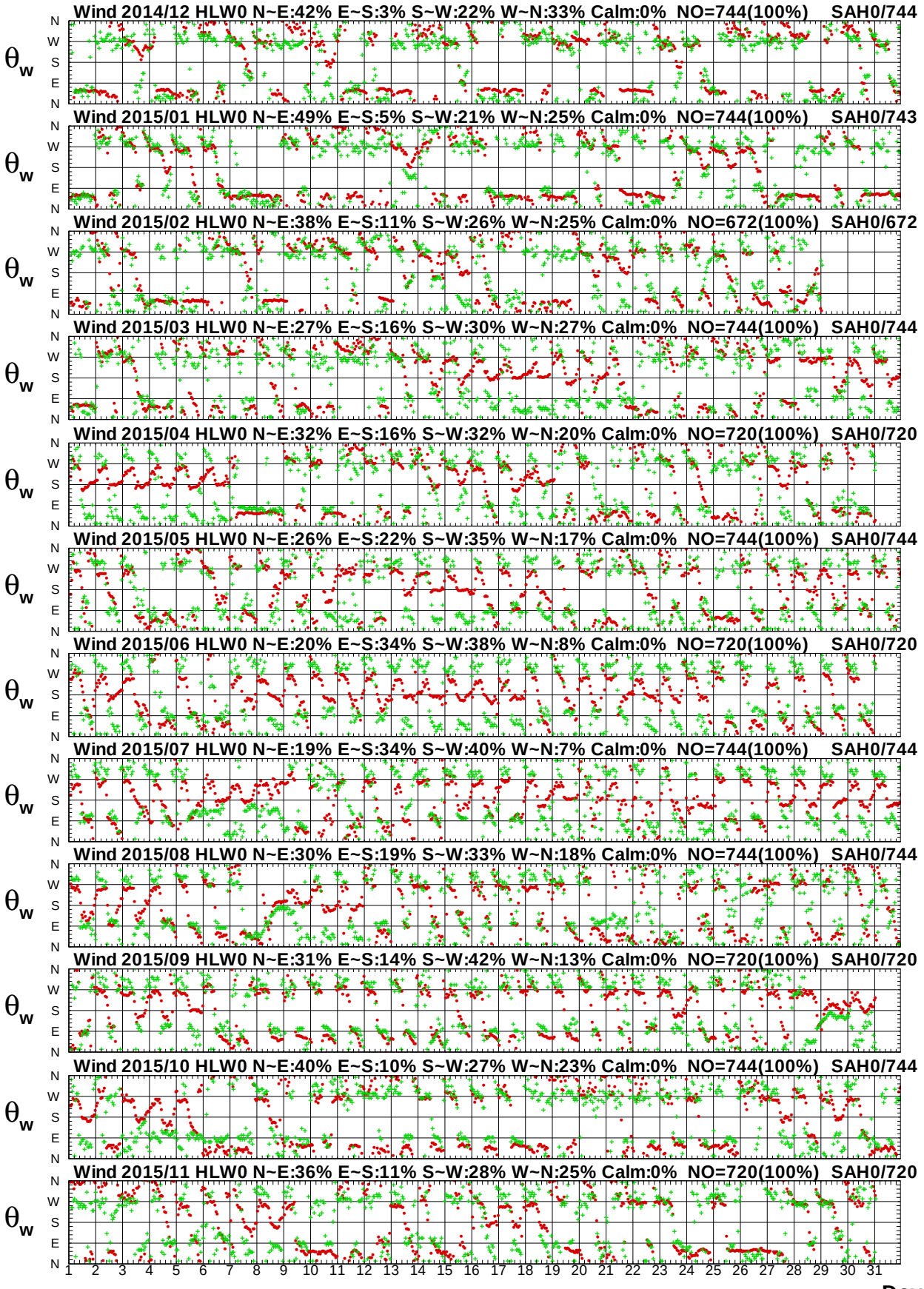

圖 4.10b　2015年每月花蓮海域 W 站與宜蘭海域 H 站風向圖

Wind Speed in Hua-Lien Seas of HLW0 at 2015

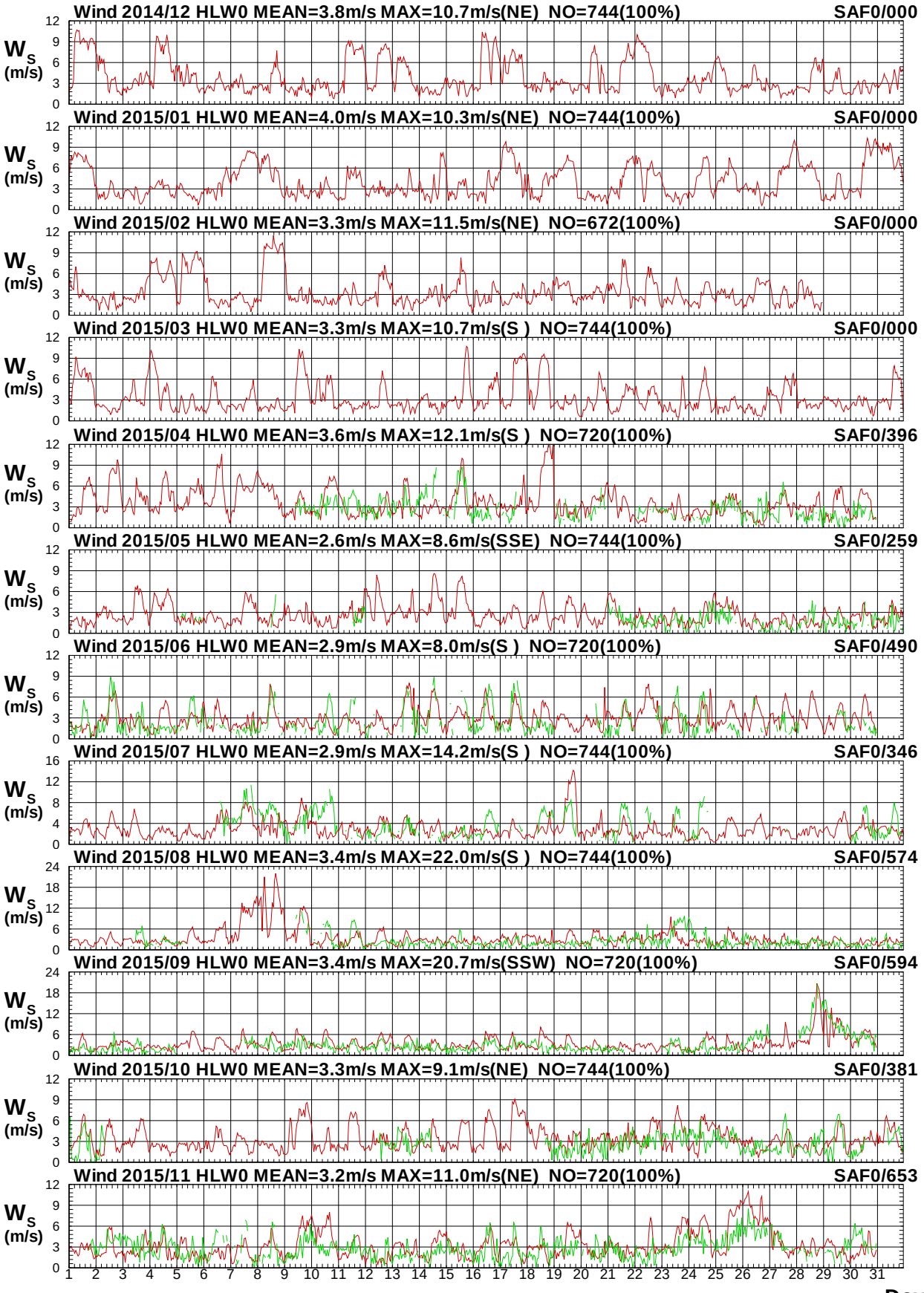

圖 4.11a　2015年每月花蓮海域 W 站與宜蘭海域 F 站風速圖

Wind Direction in Hua-Lien Seas of HLW0 at 2015

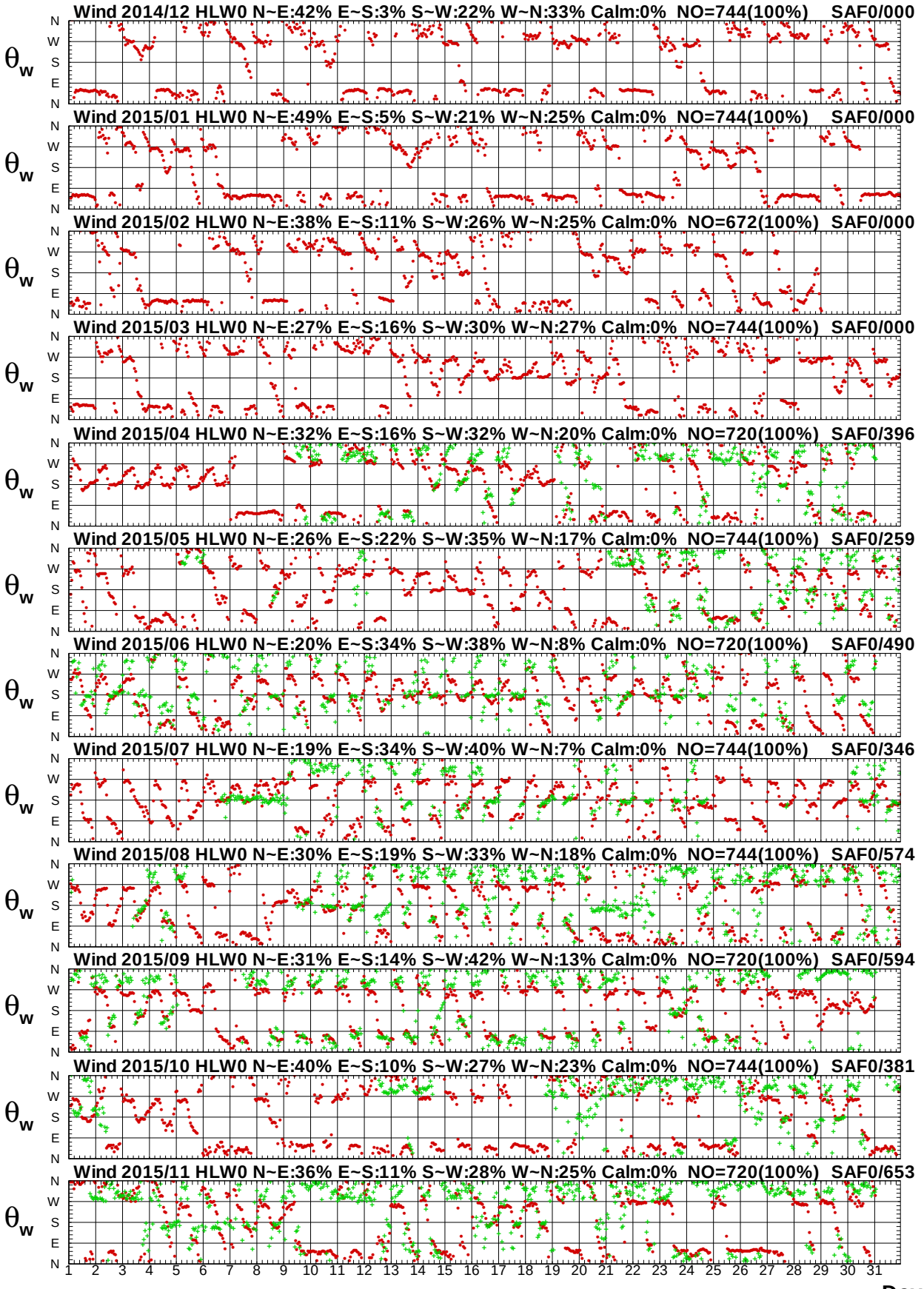

圖 4.11b　2015年每月花蓮海域 W 站與宜蘭海域 F 站風向圖

Wind Speed in Hua-Lien Seas of HLW0 at 2015

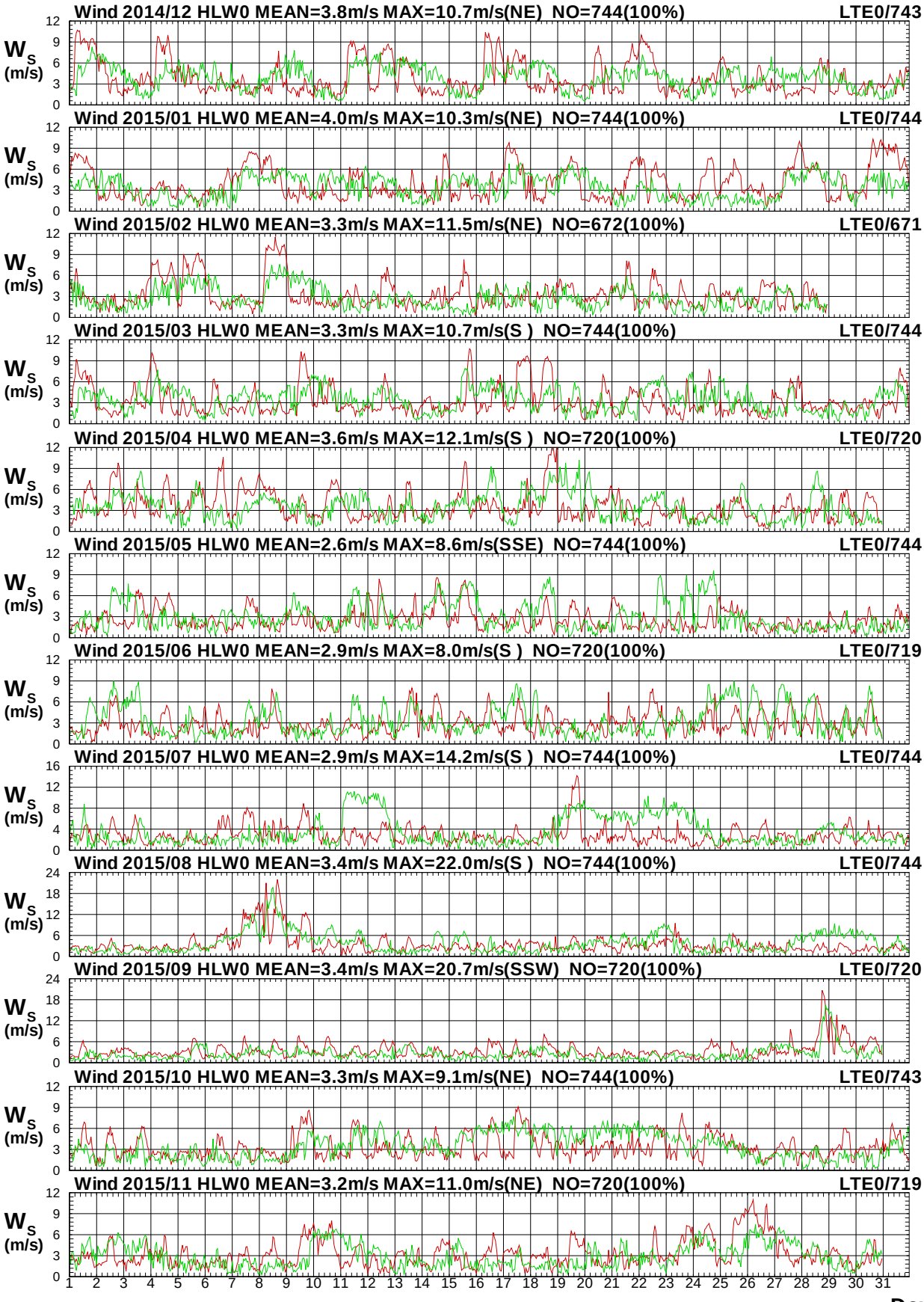

圖 4.12a　2015年每月花蓮海域 W 站與臺東海域 E 站風速圖

W14CHLW0.1HA W14CLTE0.1H0 W151HLW0.1HA W151LTE0.1H0 W152HLW0.1HA W152LTE0.1H0
W153HLW0.1HA W153LTE0.1H0 W154HLW0.1HA W154LTE0.1H0 W155HLW0.1HA W155LTE0.1H0

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Wind Direction in Hua-Lien Seas of HLW0 at 2015

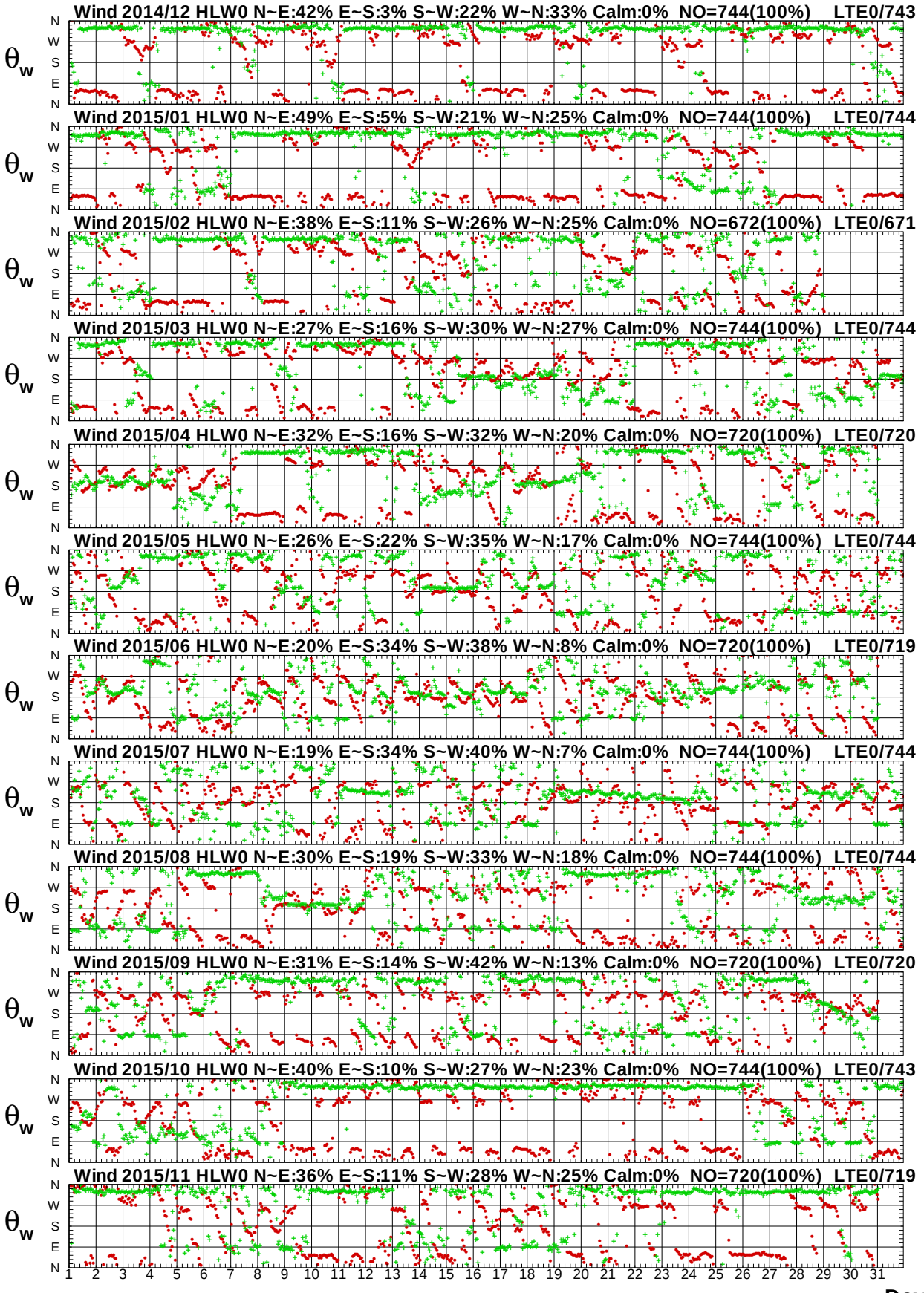

圖 4.12b　2015年每月花蓮海域 W 站與臺東海域 E 站風向圖

Wind Speed in Hua-Lien Seas of HLW0 at 2015

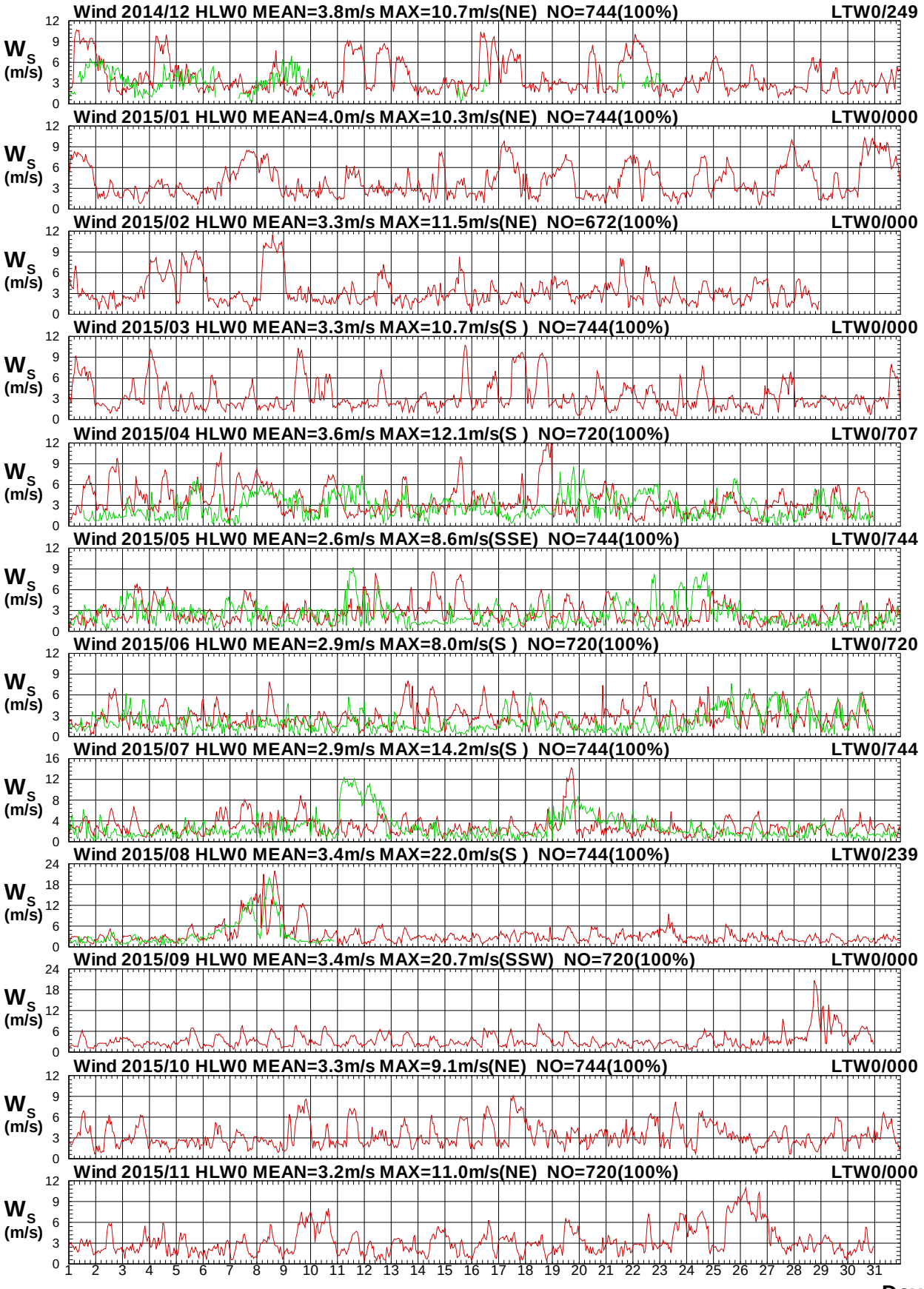

圖 4.13a　2015年每月花蓮海域 W 站與臺東海域 W 站風速圖

W14CHLW0.1HA W14CLTW0.1H0 W151HLW0.1HA W151LTW0.1H0 W152HLW0.1HA W152LTW0.1H0
W153HLW0.1HA W153LTW0.1H0 W154HLW0.1HA W154LTW0.1H0 W155HLW0.1HA W155LTW0.1H0

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Wind Direction in Hua-Lien Seas of HLW0 at 2015

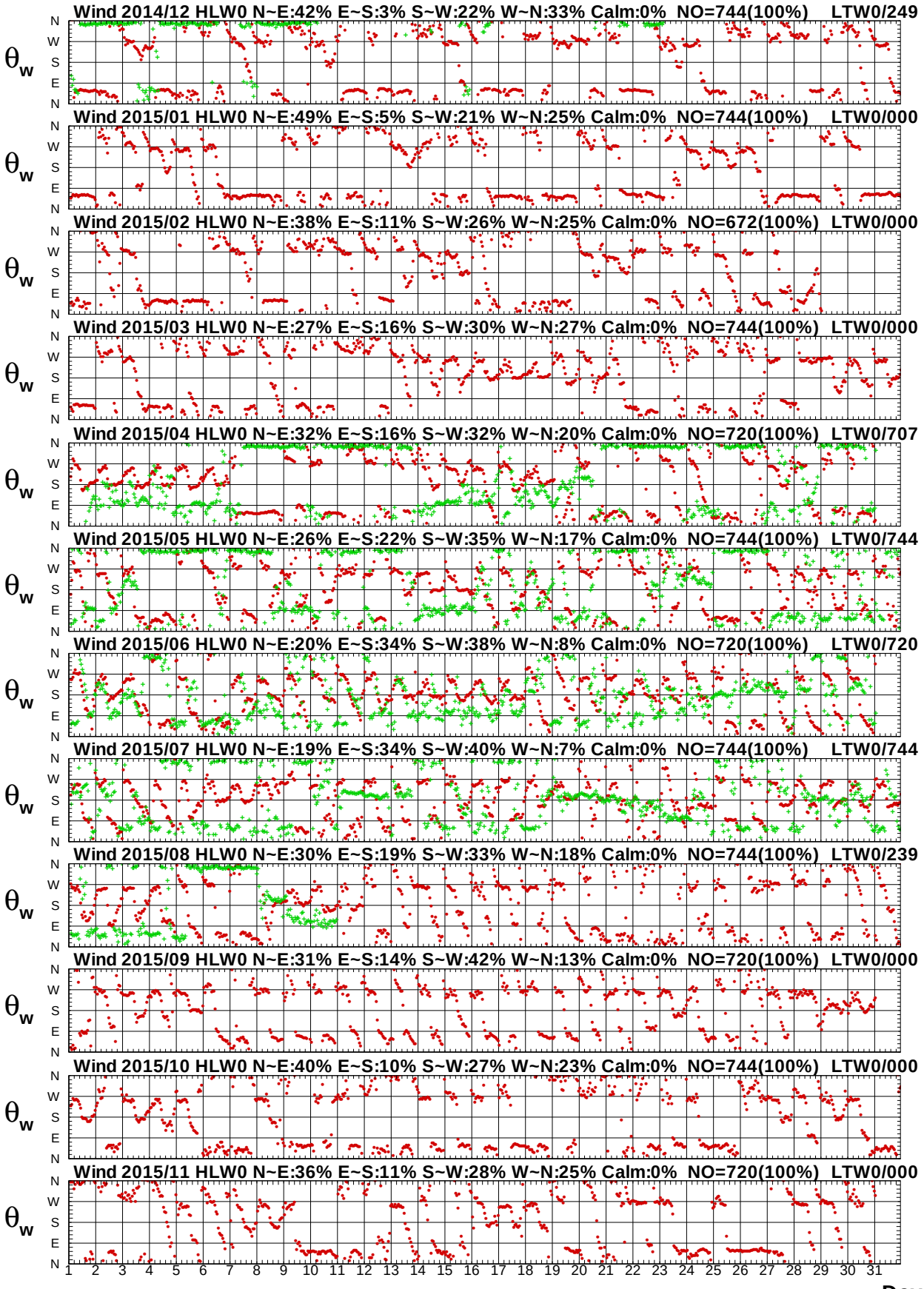

圖4.13b　2015年每月花蓮海域 W 站與臺東海域 W 站風向圖

Wind Speed in Hua-Lien Seas of HLW0 at 2015

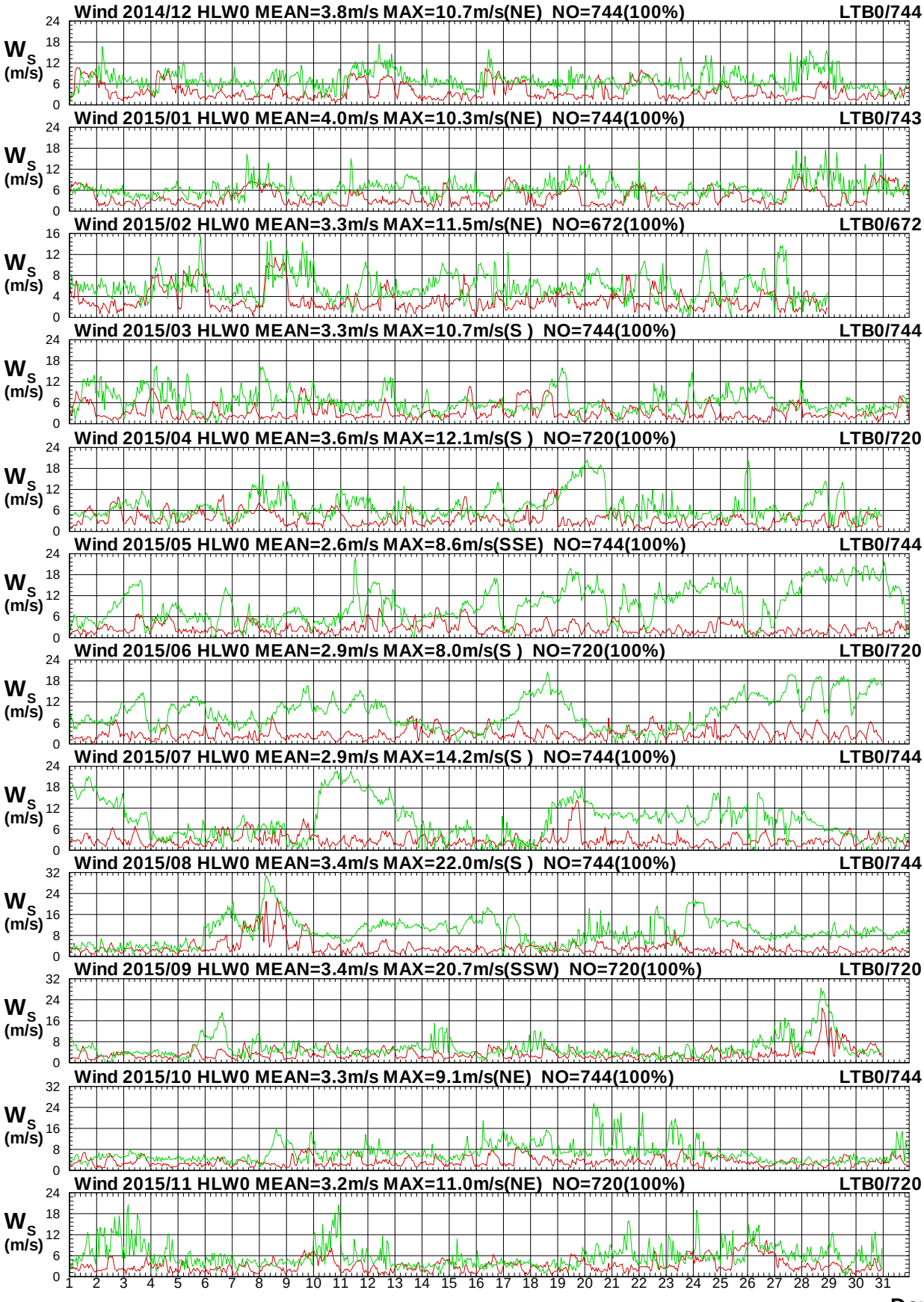

圖 4.14a　2015年每月花蓮海域 W 站與臺東海域 B 站風速圖

Wind Direction in Hua-Lien Seas of HLW0 at 2015

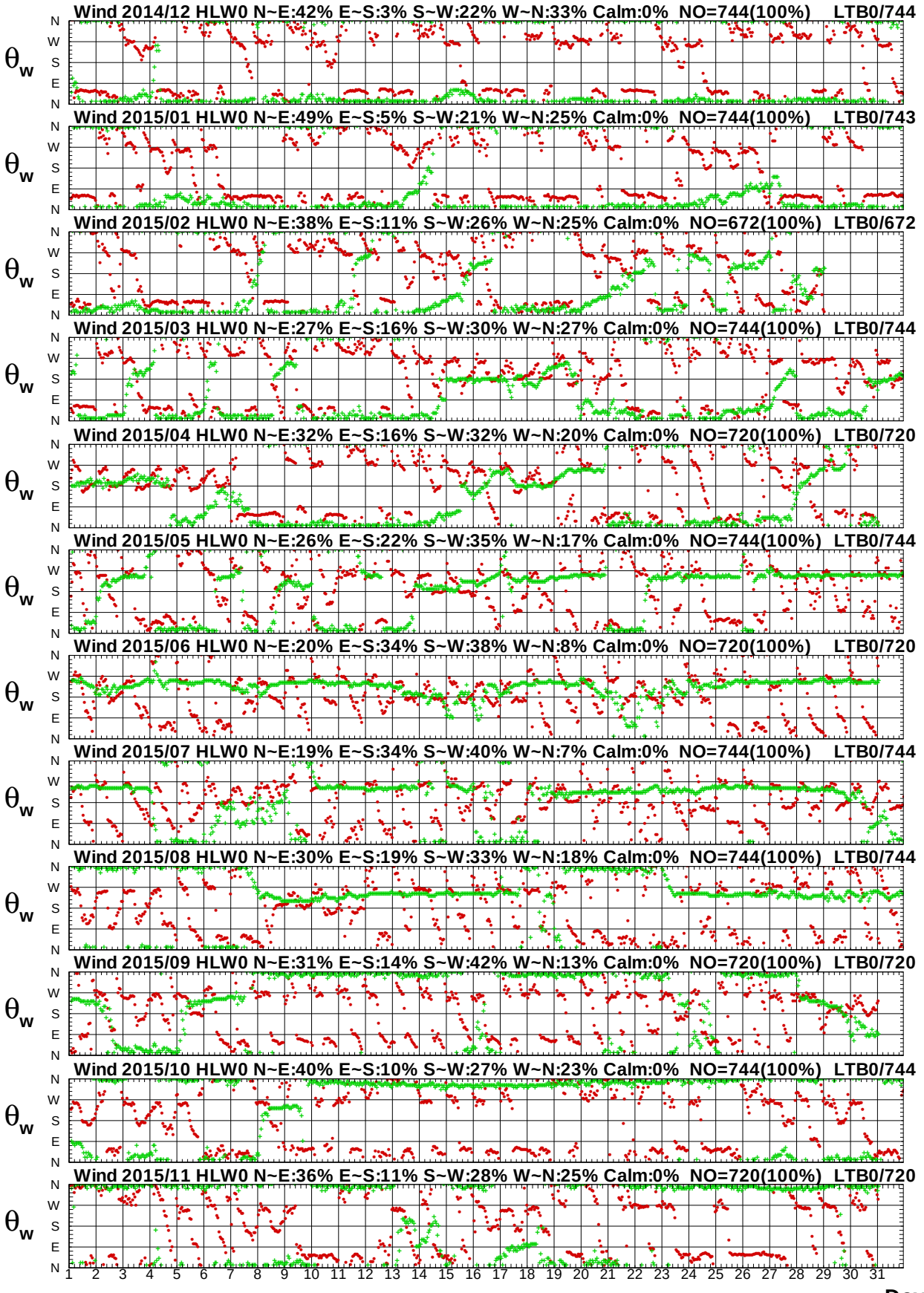

圖 4.14b　2015年每月花蓮海域 W 站與臺東海域 B 站風向圖

Wind Speed in Hua-Lien Seas of HLW0 at 2015

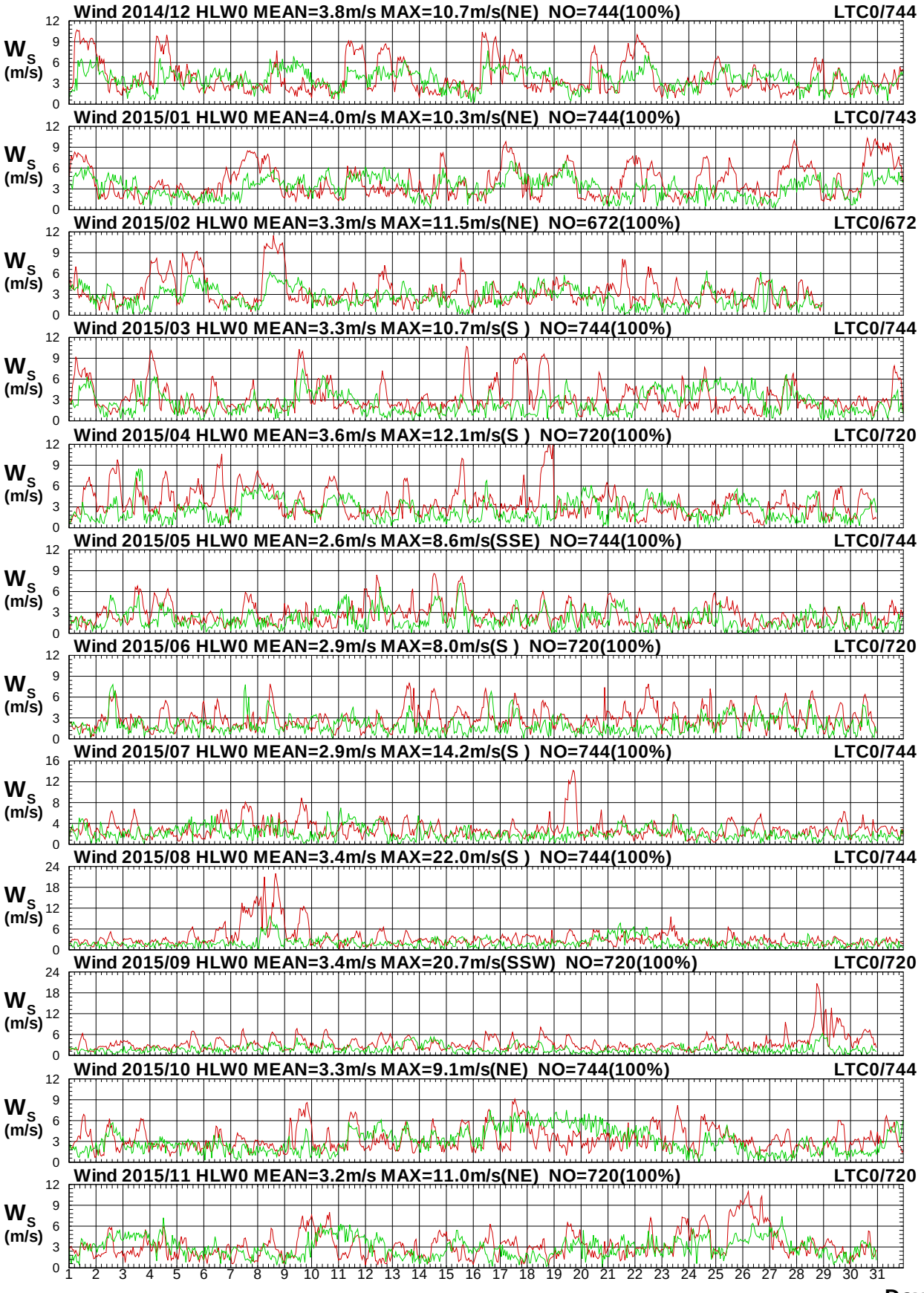

圖 4.15a　2015年每月花蓮海域 W 站與臺東海域 C 站風速圖

W14CHLW0.1HA W14CLTC0.1H0 W151HLW0.1HA W151LTC0.1H0 W152HLW0.1HA W152LTC0.1H0
W153HLW0.1HA W153LTC0.1H0 W154HLW0.1HA W154LTC0.1H0 W155HLW0.1HA W155LTC0.1H0

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Wind Direction in Hua-Lien Seas of HLW0 at 2015

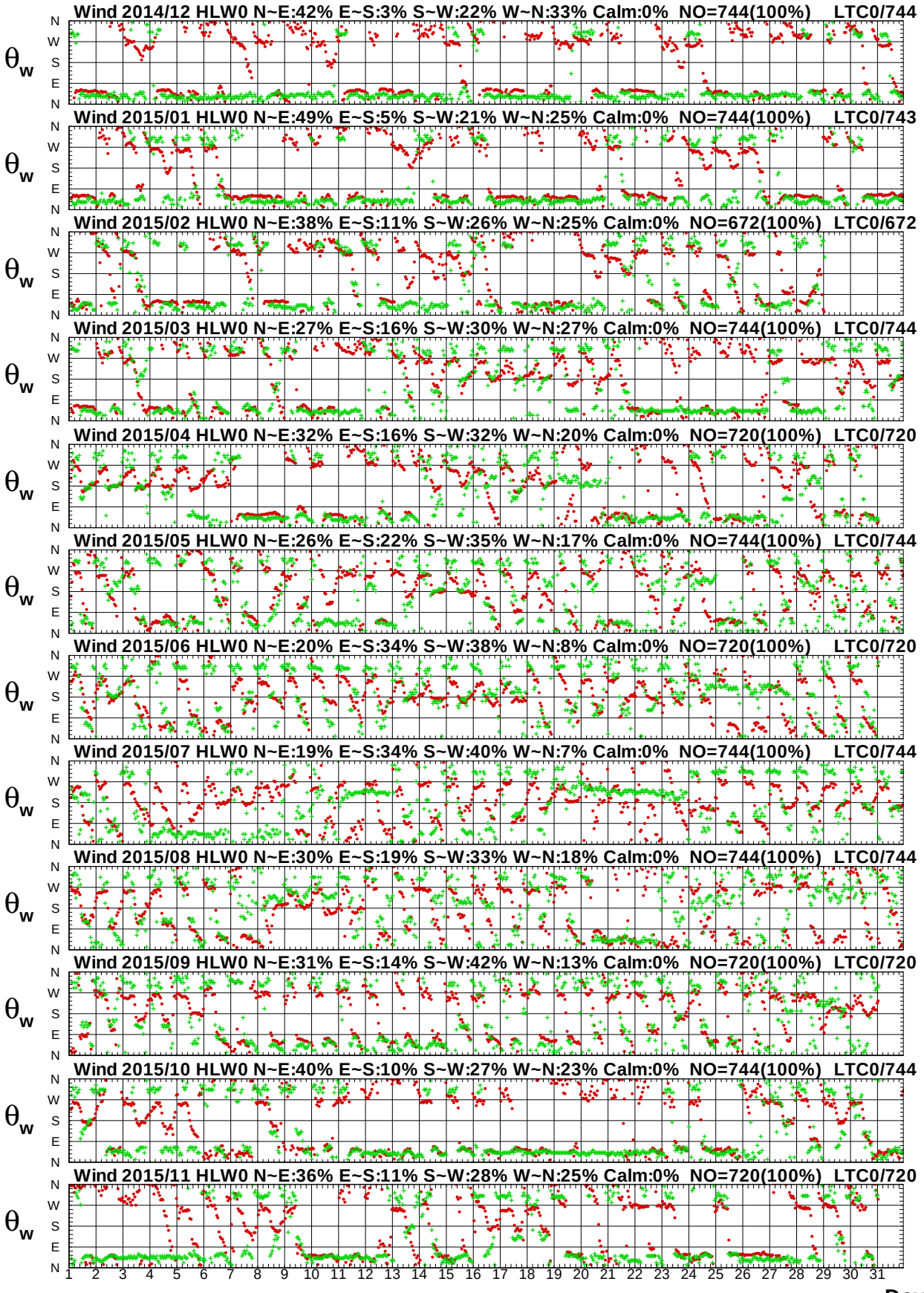

圖 4.15b　2015年每月花蓮海域 W 站與臺東海域 C 站風向圖

Wind Speed in Hua-Lien Seas of HLW0 at 2015

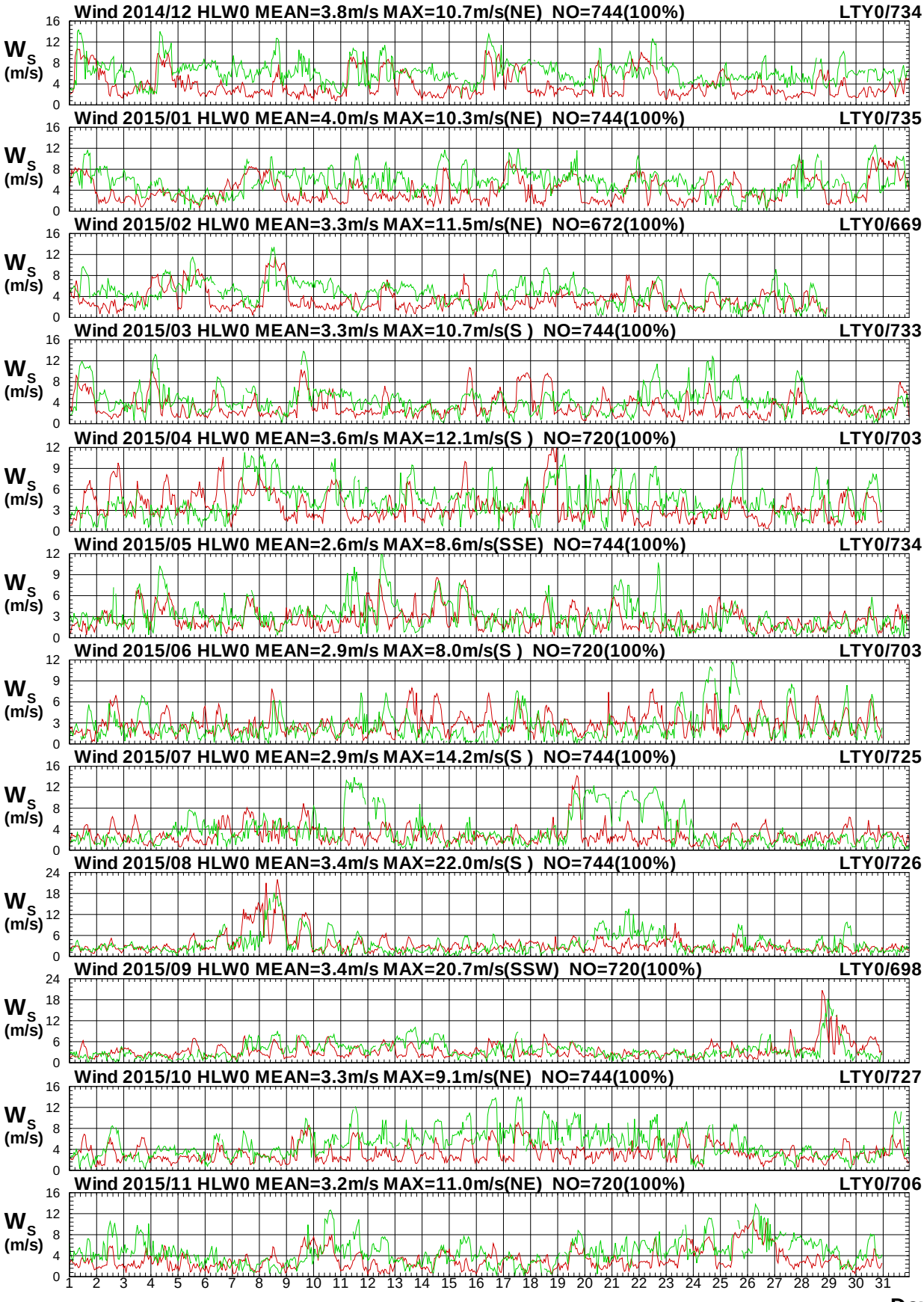

圖 4.16a　2015年每月花蓮海域 W 站與臺東海域 Y 站風速圖

Wind Direction in Hua-Lien Seas of HLW0 at 2015

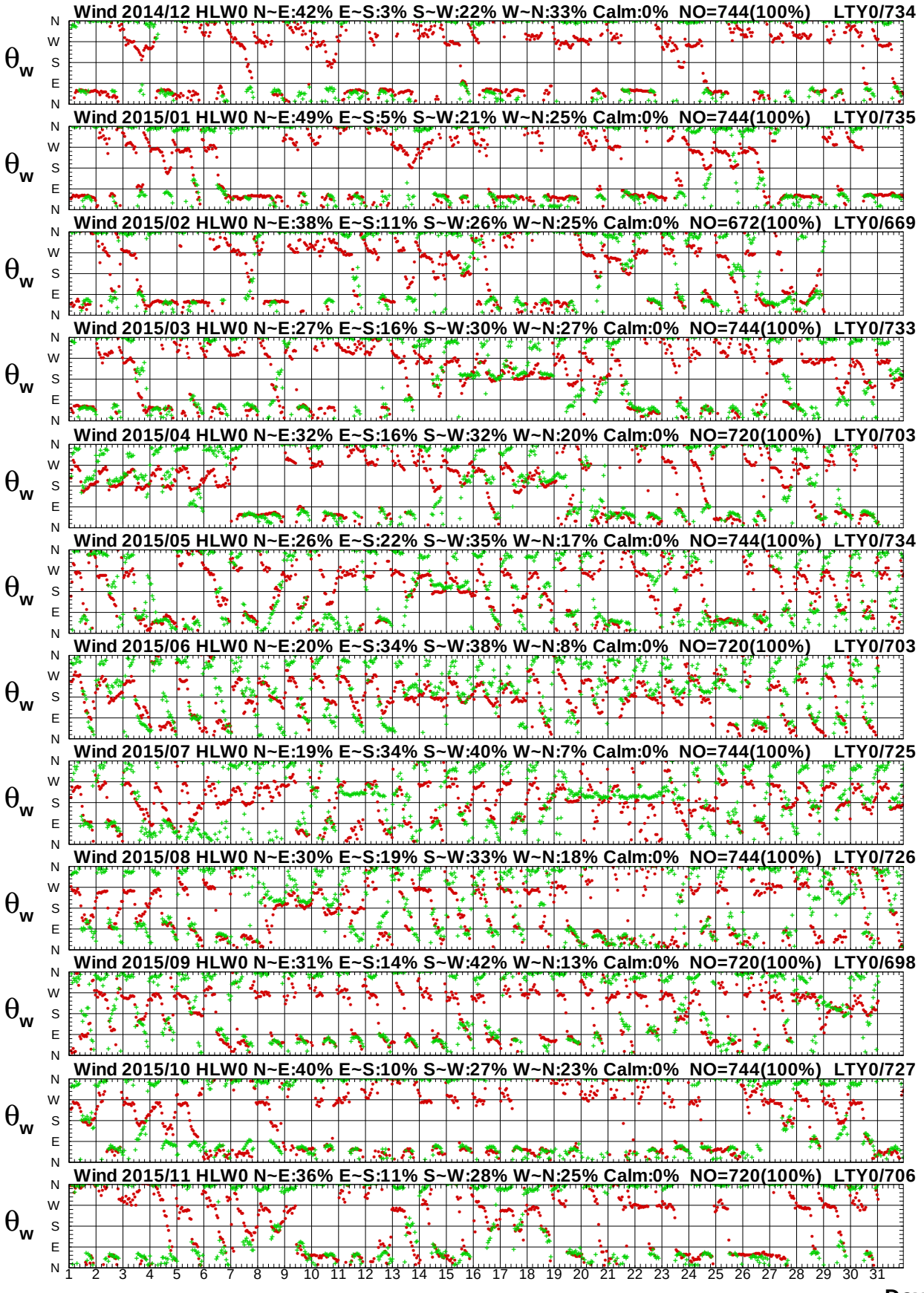

圖 4.16b　2015年每月花蓮海域 W 站與臺東海域 Y 站風向圖

Wind Speed in Hua-Lien Seas of HLW0 at 2015

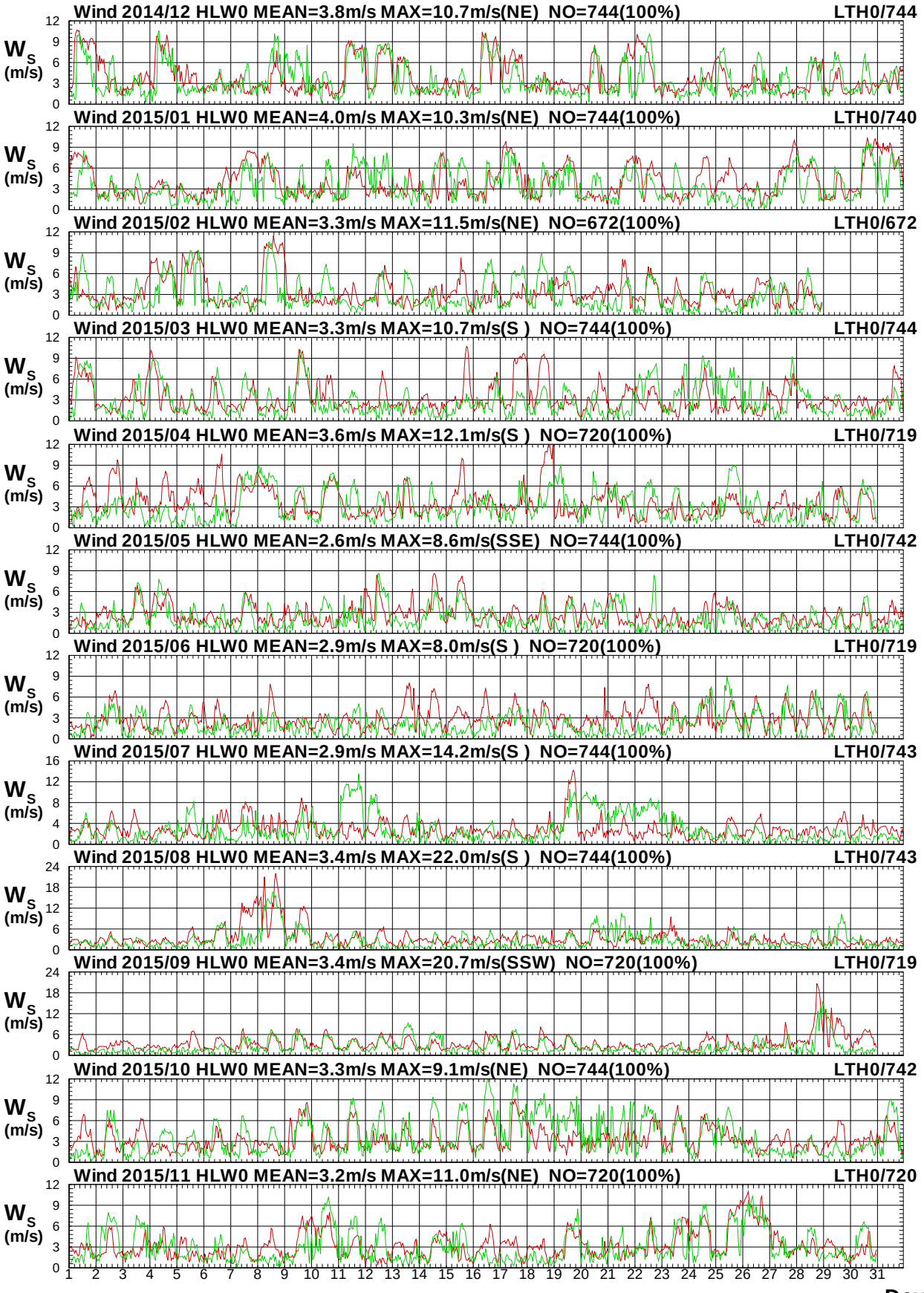

圖 4.17a　2015年每月花蓮海域 W 站與臺東海域 H 站風速圖

Wind Direction in Hua-Lien Seas of HLW0 at 2015

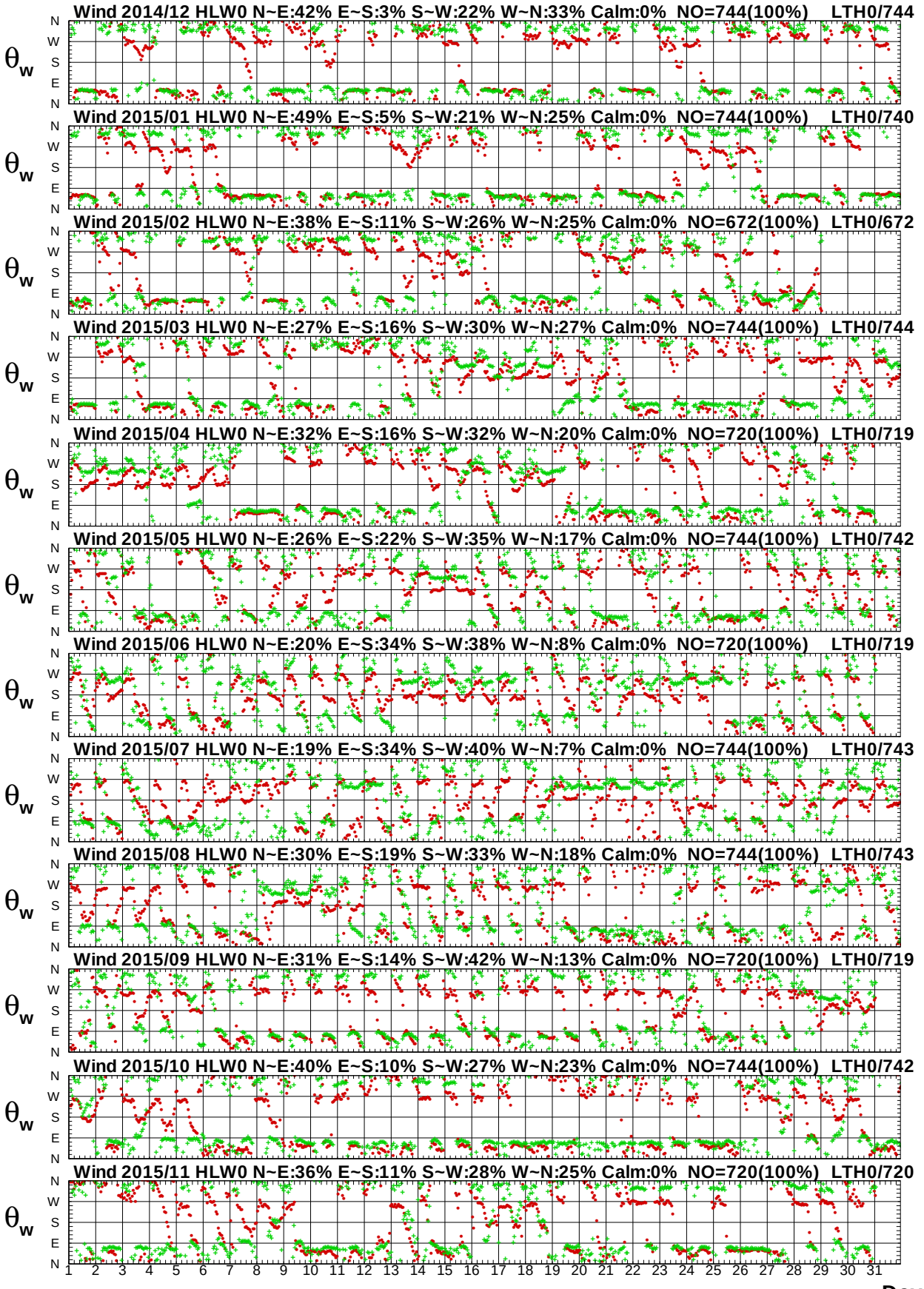

圖 4.17b　2015年每月花蓮海域 W 站與臺東海域 H 站風向圖

Wind Speed in Hua-Lien Seas of HLW0 at 2015

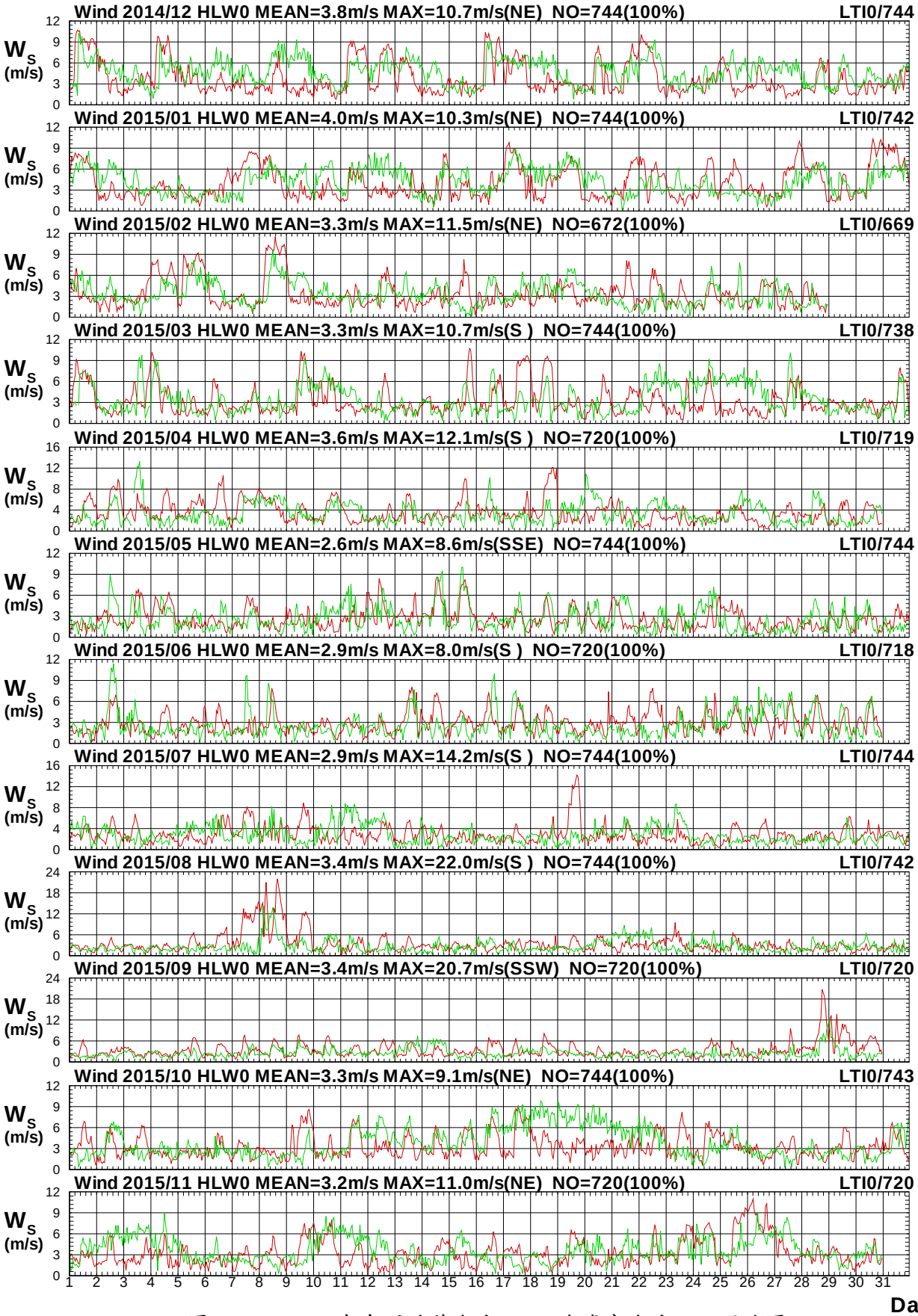

圖4.18a　2015年每月花蓮海域 W 站與臺東海域 I 站風速圖

Wind Direction in Hua-Lien Seas of HLW0 at 2015

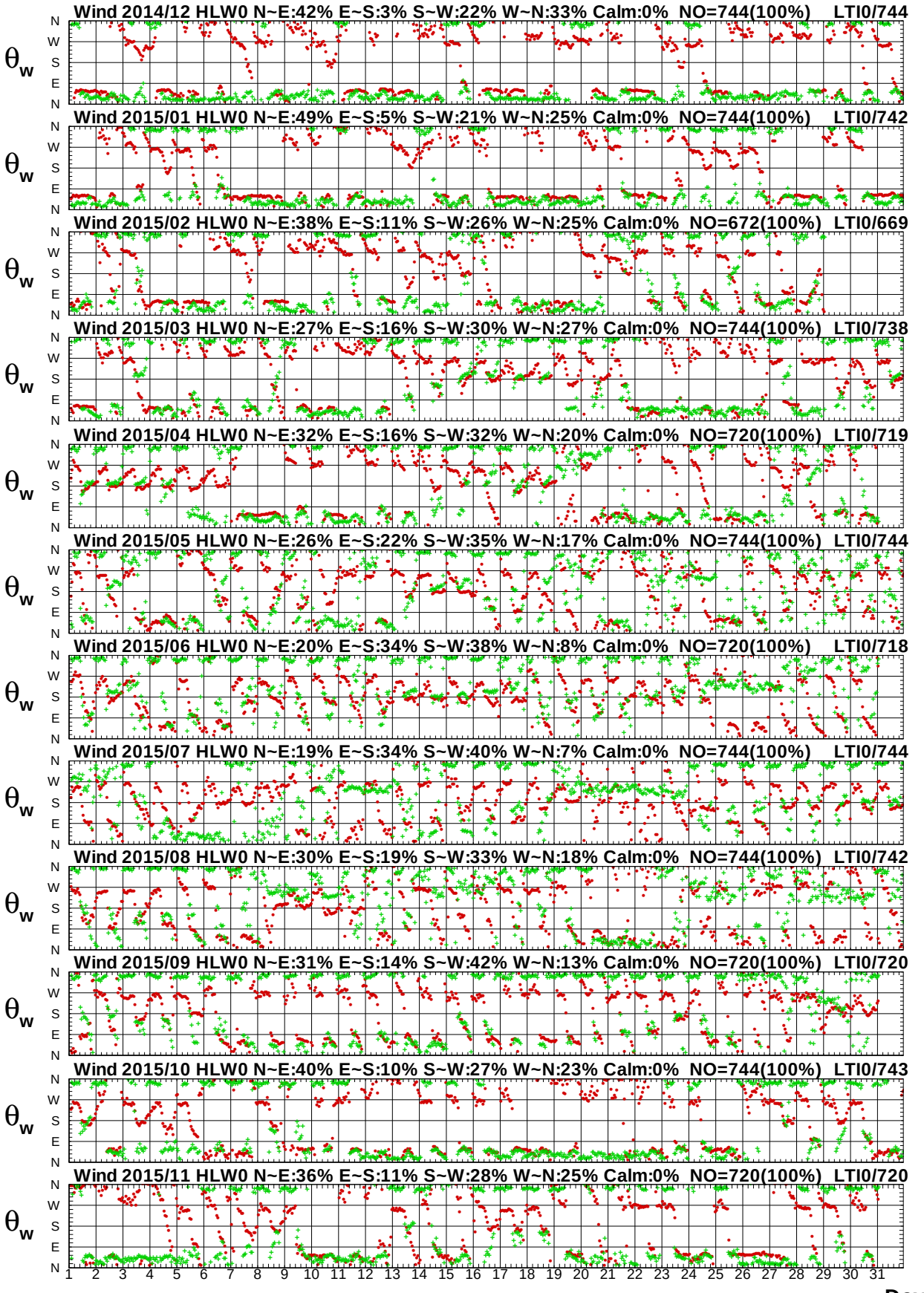

圖4.18b　2015年每月花蓮海域 W 站與臺東海域 I 站風向圖

Wind Speed in Hua-Lien Seas of HLW0 at 2015

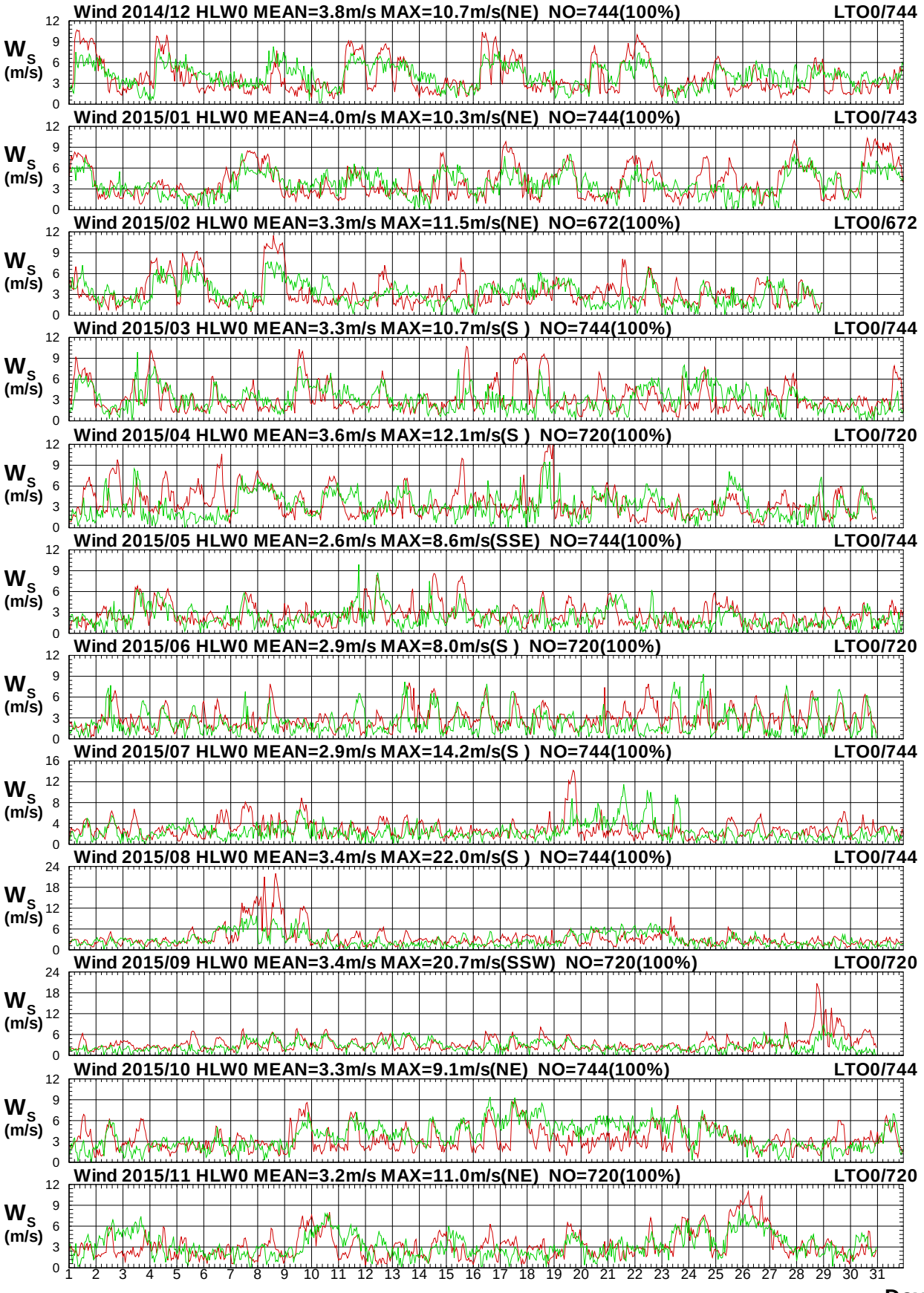

圖 4.19a　2015年每月花蓮海域 W 站與臺東海域 O 站風速圖

W14CHLW0.1HA W14CLTO0.1H0 W151HLW0.1HA W151LTO0.1H0 W152HLW0.1HA W152LTO0.1H0
W153HLW0.1HA W153LTO0.1H0 W154HLW0.1HA W154LTO0.1H0 W155HLW0.1HA W155LTO0.1H0

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Wind Direction in Hua-Lien Seas of HLW0 at 2015

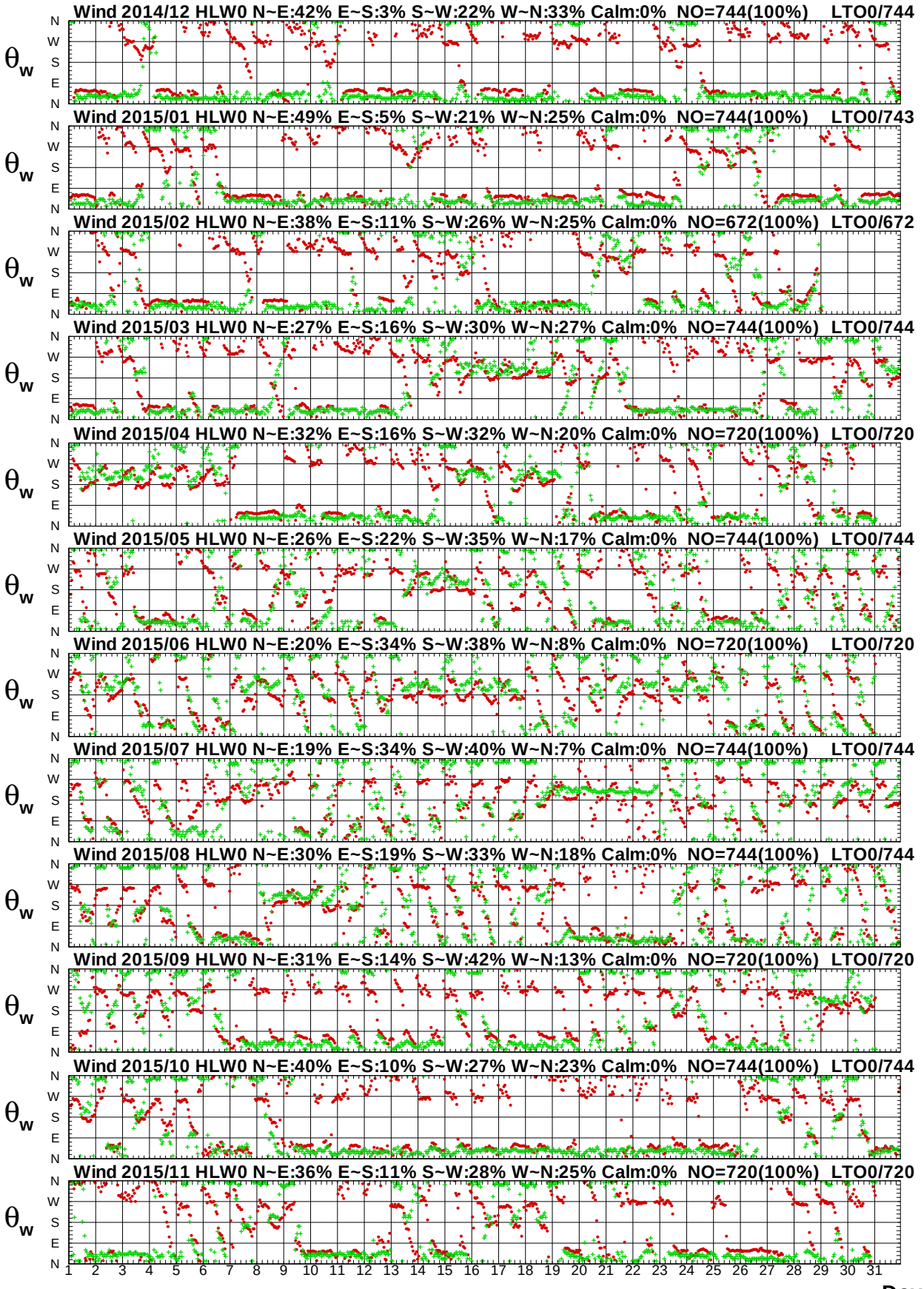

圖 4.19b　2015年每月花蓮海域 W 站與臺東海域 O 站風向圖

Wind Speed in Hua-Lien Seas of HLW0 at 2015

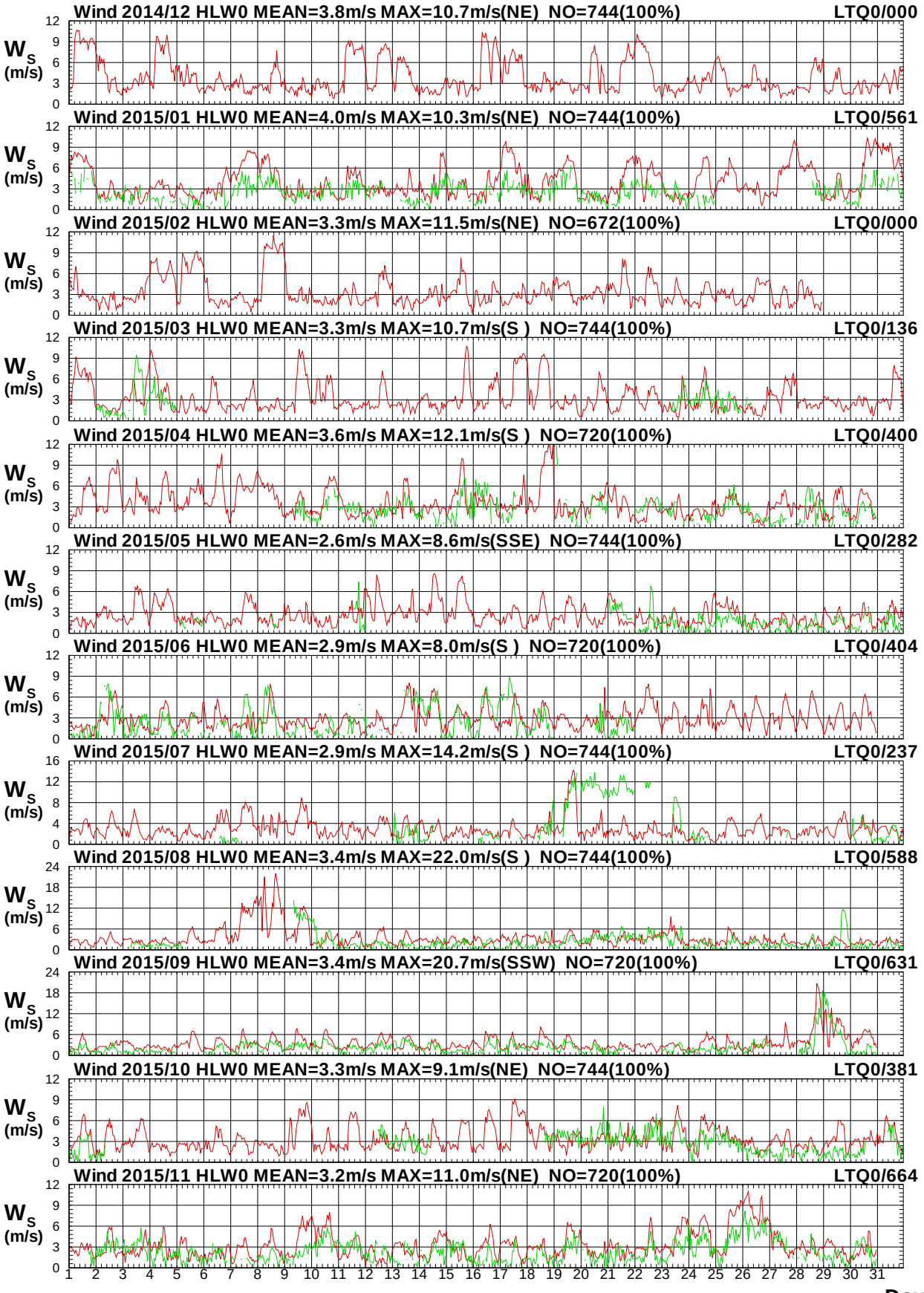

圖 4.20a　2015年每月花蓮海域 W 站與臺東海域 Q 站風速圖

W14CHLW0.1HA W14CLTQ0.1H0 W151HLW0.1HA W151LTQ0.1H0 W152HLW0.1HA W152LTQ0.1H0
W153HLW0.1HA W153LTQ0.1H0 W154HLW0.1HA W154LTQ0.1H0 W155HLW0.1HA W155LTQ0.1H0

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Wind Direction in Hua-Lien Seas of HLW0 at 2015

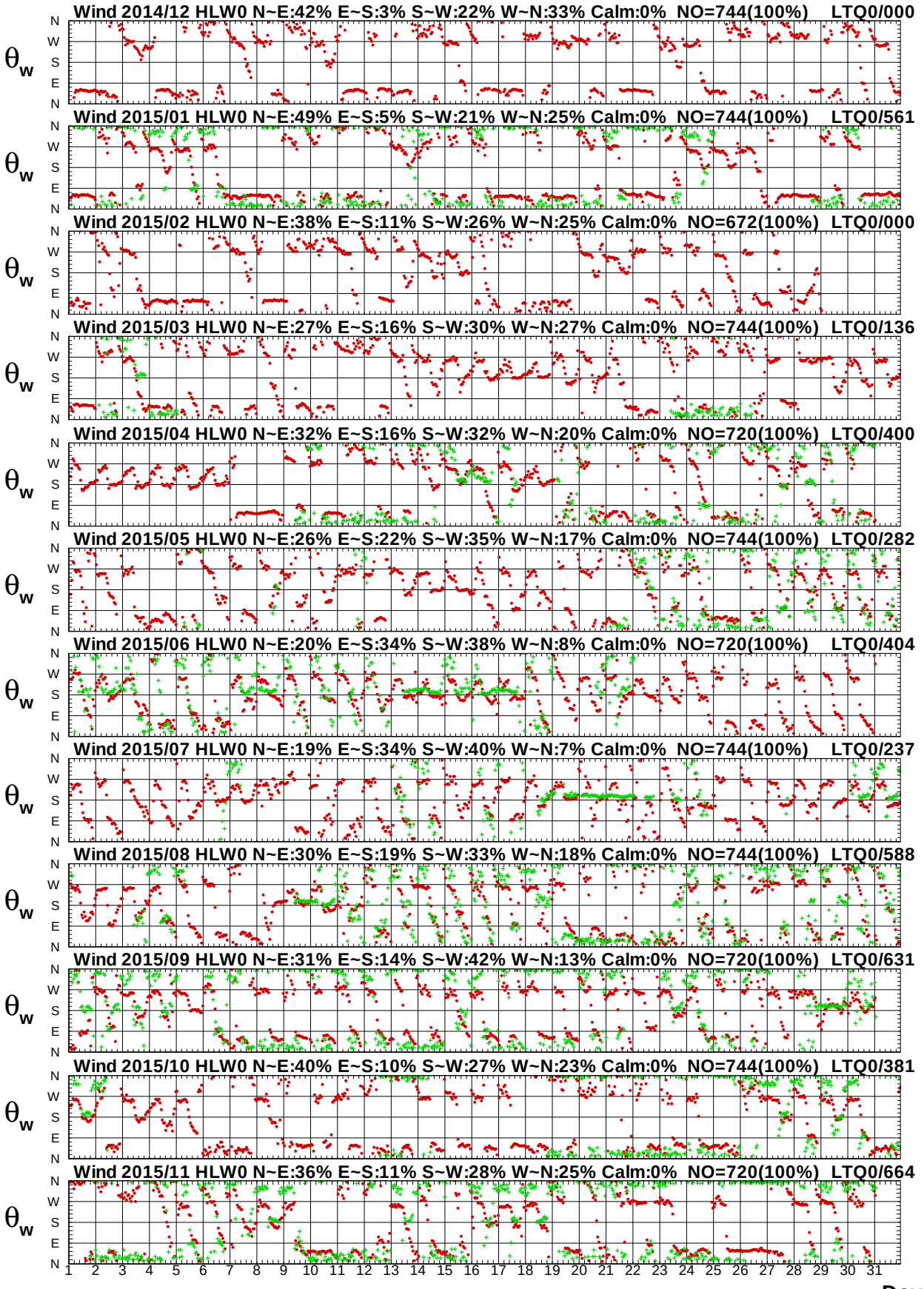

圖 4.20b　2015年每月花蓮海域 W 站與臺東海域 Q 站風向圖

W14CHLW0.1HA W14CLTQ0.1H0 W151HLW0.1HA W151LTQ0.1H0 W152HLW0.1HA W152LTQ0.1H0
W153HLW0.1HA W153LTQ0.1H0 W154HLW0.1HA W154LTQ0.1H0 W155HLW0.1HA W155LTQ0.1H0

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Wind Speed in Hua-Lien Seas of HLW0 at 2015

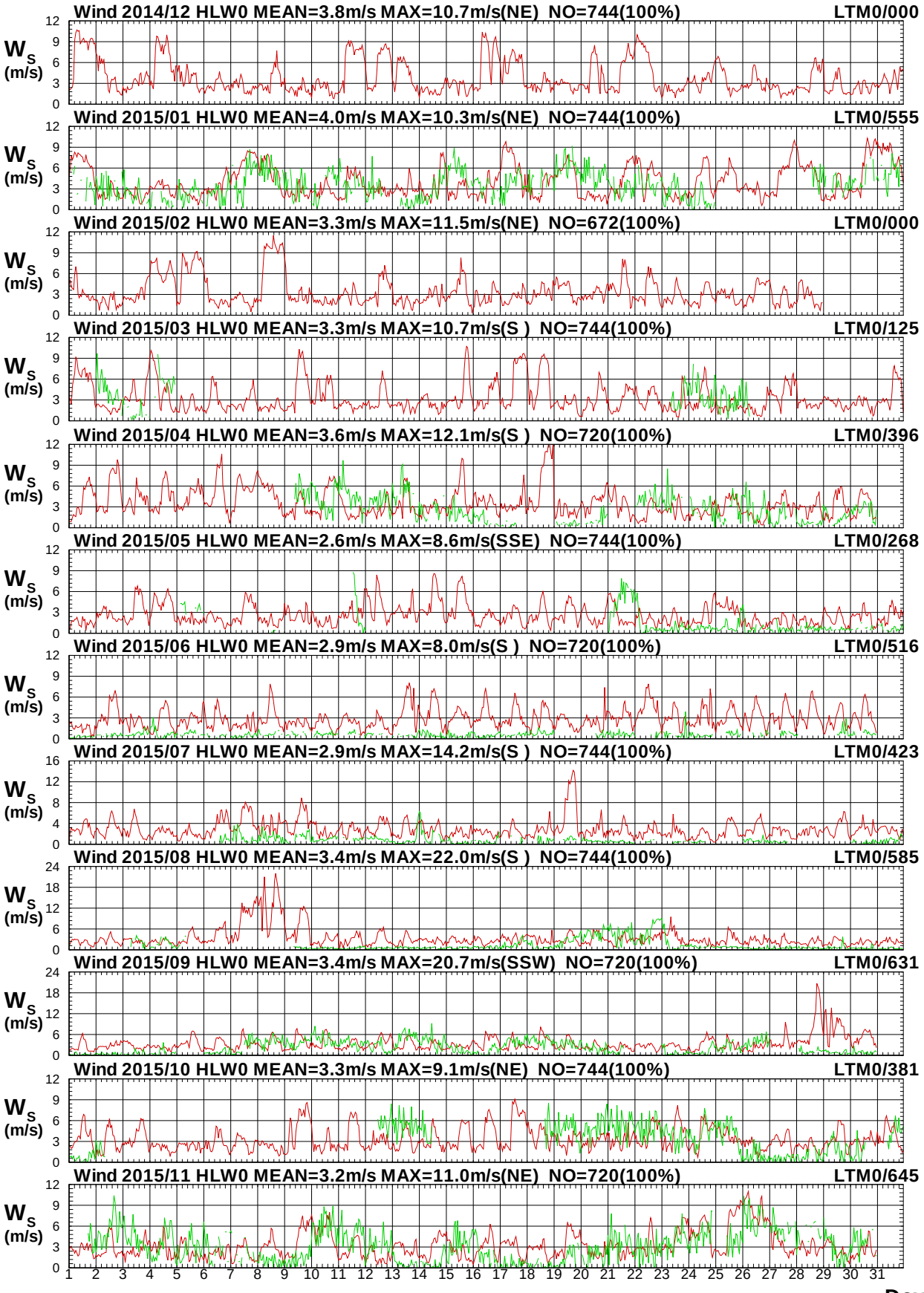

圖 4.21a　2015年每月花蓮海域 W 站與臺東海域 M 站風速圖

W14CHLW0.1HA W14CLTM0.1H0 W151HLW0.1HA W151LTM0.1H0 W152HLW0.1HA W152LTM0.1H0
W153HLW0.1HA W153LTM0.1H0 W154HLW0.1HA W154LTM0.1H0 W155HLW0.1HA W155LTM0.1H0

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Wind Direction in Hua-Lien Seas of HLW0 at 2015

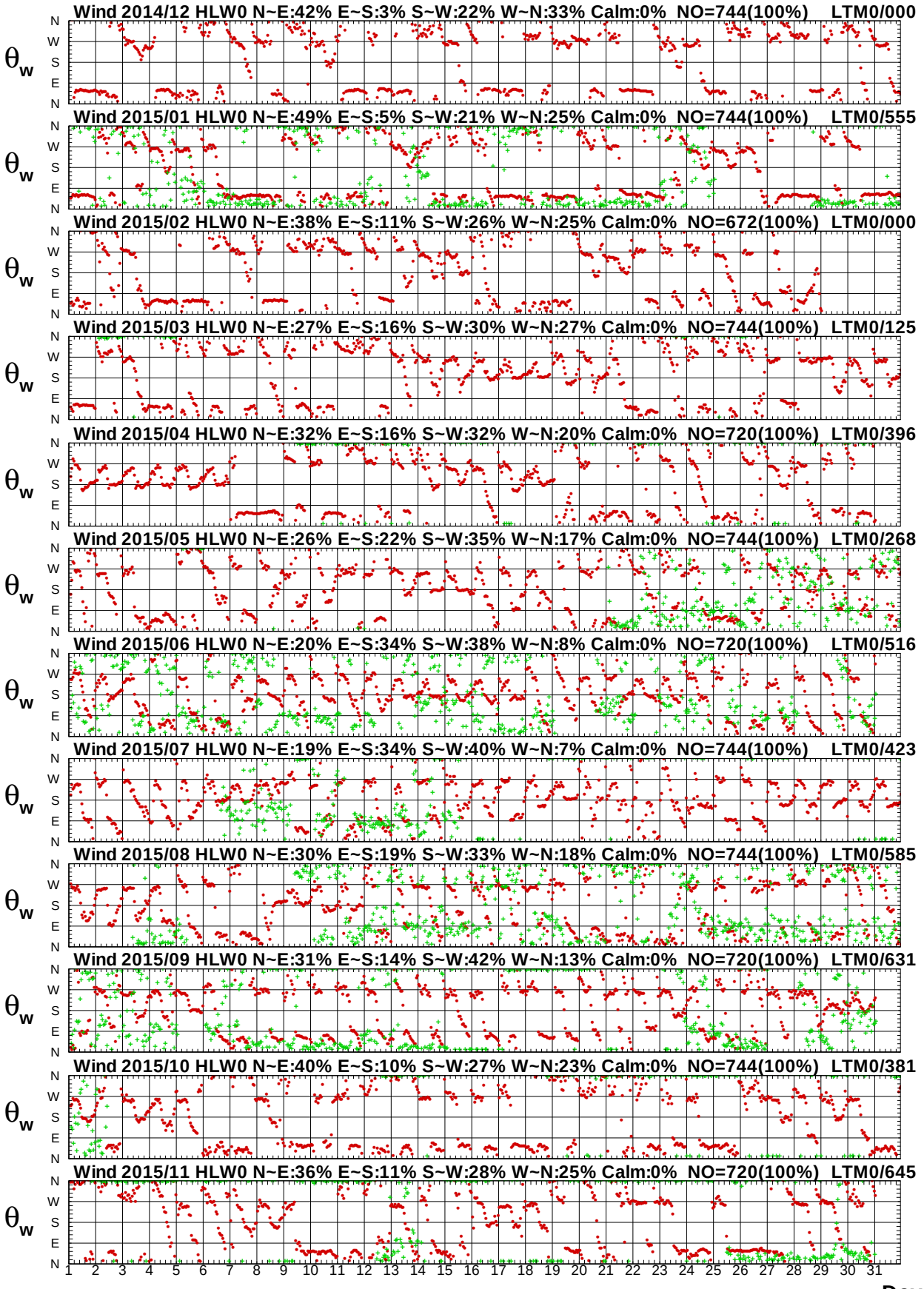

圖 4.21b　2015年每月花蓮海域 W 站與臺東海域 M 站風向圖

第五章　2015 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 5。**測站 B**(**測站 M**) (蘭嶼氣象站)及**測站 C**(大武氣象站)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 5。

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)。

本風力年報以取經檢核或修補後之 **E 站**資料作為**主要觀測站**，2015 年主要觀測站修補前(後)每月觀測之風資料記錄期間統計表，如表 5.1a，2015 年風力**次要觀測站**資料(未補餘)記錄統計表，如表 5.1b，**主要觀測站修補前後**每月風力歷線比較圖，如圖 5.1，**主要觀測站**與**次要觀測站**(或**其他觀測站**)每月風力歷線比較圖，如圖 5.2 以後。

表 5 臺東海域觀測風力資料蒐集概況表(統計時間至 2015 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	2014/01-2015/11(觀測中)	港研中心	南寮港
E	22°39'39"N	121°28'24"E	2001/10-2015/11(觀測中)	水利署	綠島氣象站
Y	22°43'27"N	121°08'40"E	2010/09-2015/11(觀測中)	水利署	台東浮標站
H	22°47'27"N	121°11'32"E	2003/09-2015/11(觀測中)	水利署	富岡氣象站
O	23°05'57"N	121°21'55"E	2013/11-2015/11(觀測中)	水利署	成功氣象站
B	22°02'19"N	121°33'02"E	2014/08-2015/11(觀測中)	中央氣象局	蘭嶼氣象站
M	22°03'35"N	121°29'59"E	2015/01-2015/11(觀測中)	中央氣象局	蘭嶼氣象站
Q	23°05'20"N	121°22'36"E	2015/01-2015/11(觀測中)	中央氣象局	成功氣象站
C	22°21'27"N	120°53'44"E	2013/11-2015/11(觀測中)	中央氣象局	大武氣象站
I	22°20'14"N	120°53'46"E	2005/10-2015/11(觀測中)	水利署	大武氣象站

臺東海域

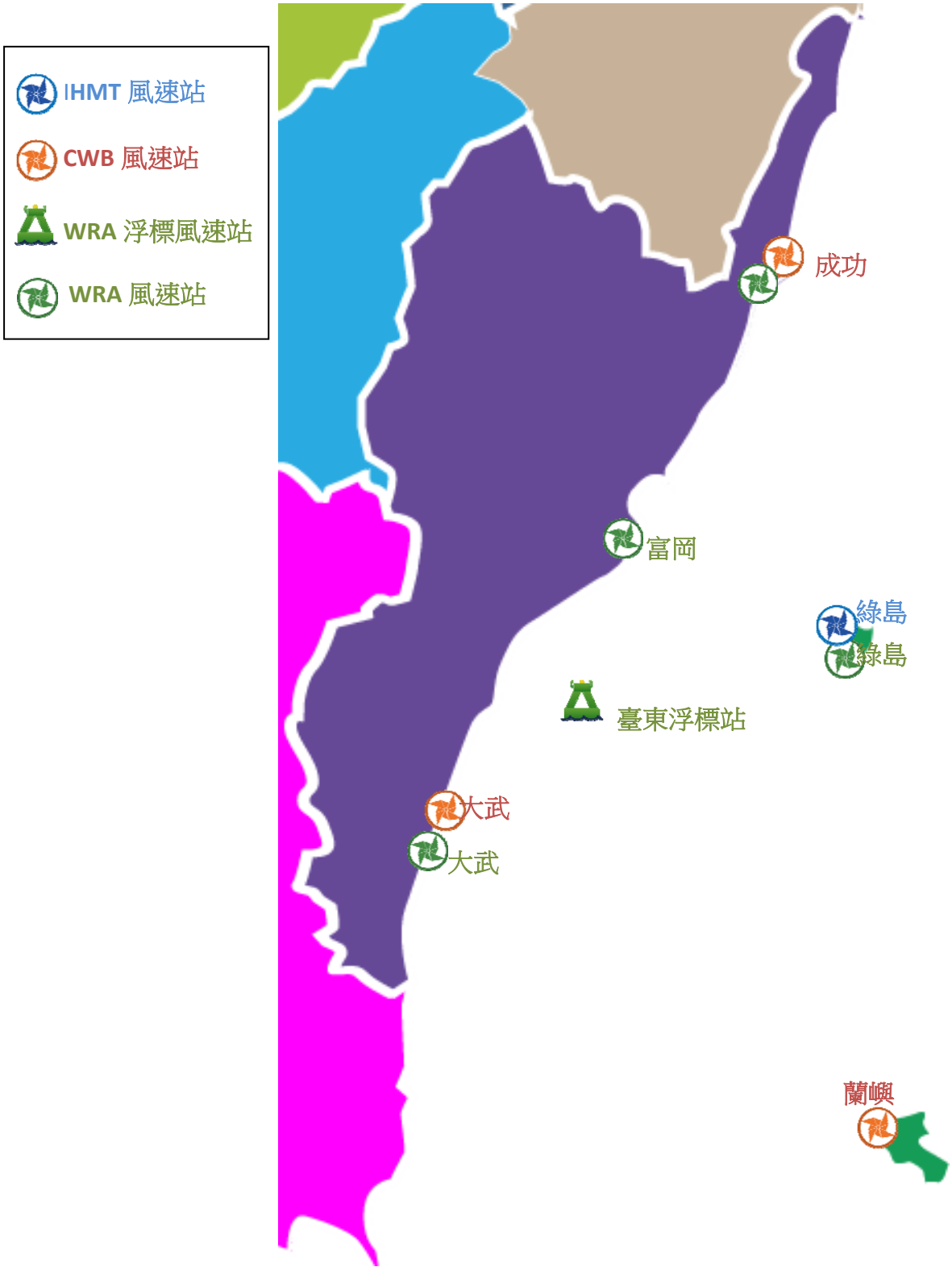

圖 5 臺東海域風力觀測站位置示意圖

表5.1a 2015年每月臺東海域修補前各測站觀測風力資料紀錄統計表

年/月 港區	臺東海域	臺東海域	臺東海域	臺東海域	臺東海域	臺東海域	臺東海域	臺東海域	臺東海域	臺東海域	臺東海域	臺東海域
測站	W	Y	B	E	H	C	I	O	M	Q		
2014/12月	249 (33.5%)	734 (98.7%)	744 (100%)	743 (99.9%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	*	*	*	*
2015/ 1月	*	735 (98.8%)	743 (99.9%)	744 (100%)	740 (99.5%)	743 (99.9%)	742 (99.7%)	743 (99.9%)	555 (74.6%)	561 (75.4%)	*	*
2015/ 2月	*	669 (99.6%)	672 (100%)	671 (99.9%)	672 (100%)	672 (100%)	669 (99.6%)	672 (100%)	*	*	*	*
2015/ 3月	*	733 (98.5%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	738 (99.2%)	744 (100%)	125 (16.8%)	136 (18.3%)	*	*
2015/ 4月	707 (98.2%)	703 (97.6%)	720 (100%)	720 (100%)	719 (99.9%)	720 (100%)	719 (99.9%)	720 (100%)	396 (55.0%)	400 (55.6%)	*	*
2015/ 5月	744 (100%)	734 (98.7%)	744 (100%)	744 (100%)	742 (99.7%)	744 (100%)	744 (100%)	744 (100%)	268 (36.0%)	282 (37.9%)	*	*
2015/ 6月	720 (100%)	703 (97.6%)	720 (100%)	719 (99.9%)	719 (99.9%)	720 (100%)	718 (99.7%)	720 (100%)	516 (71.7%)	404 (56.1%)	*	*
2015/ 7月	744 (100%)	725 (97.4%)	744 (100%)	744 (100%)	743 (99.9%)	744 (100%)	744 (100%)	744 (100%)	423 (56.9%)	237 (31.9%)	*	*
2015/ 8月	239 (32.1%)	726 (97.6%)	744 (100%)	744 (100%)	743 (99.9%)	744 (100%)	742 (99.7%)	744 (100%)	585 (78.6%)	588 (79.0%)	*	*
2015/ 9月	*	698 (96.9%)	720 (100%)	720 (100%)	719 (99.9%)	720 (100%)	720 (100%)	720 (100%)	631 (87.6%)	631 (87.6%)	*	*
2015/10月	*	727 (97.7%)	744 (100%)	743 (99.9%)	742 (99.7%)	744 (100%)	743 (99.9%)	744 (100%)	381 (51.2%)	381 (51.2%)	*	*
2015/11月	*	706 (98.1%)	720 (100%)	719 (99.9%)	720 (100%)	720 (100%)	720 (100%)	720 (100%)	645 (89.6%)	664 (92.2%)	*	*
2015/冬季	249 (11.5%)	2138 (99.0%)	2159 (100.0%)	2158 (99.9%)	2156 (99.8%)	2159 (100.0%)	2155 (99.8%)	2159 (100.0%)	555 (25.7%)	561 (26.0%)	*	*
2015/春季	1451 (65.7%)	2170 (98.3%)	2208 (100%)	2208 (100%)	2205 (99.9%)	2208 (100%)	2201 (99.7%)	2208 (100%)	789 (35.7%)	818 (37.0%)	*	*
2015/夏季	1703 (77.1%)	2154 (97.6%)	2208 (100%)	2207 (100.0%)	2205 (99.9%)	2208 (100%)	2204 (99.8%)	2208 (100%)	1524 (69.0%)	1229 (55.7%)	*	*
2015/秋季	*	2131 (97.6%)	2184 (100%)	2182 (99.9%)	2181 (99.9%)	2184 (100%)	2183 (100.0%)	2184 (100%)	1657 (75.9%)	1676 (76.7%)	*	*
2015/整年	3403 (38.8%)	8593 (98.1%)	8759 (100.0%)	8755 (99.9%)	8747 (99.9%)	8759 (100.0%)	8743 (99.8%)	8759 (100.0%)	4525 (51.7%)	4284 (48.9%)	*	*
起始年月	2014/12	2014/12	2014/12	2014/12	2014/12	2014/12	2014/12	2014/12	2015/01	2015/01	*	*
結束年月	2015/08	2015/11	2015/11	2015/11	2015/11	2015/11	2015/11	2015/11	2015/11	2015/11	*	*

表5.1b 2015年每月臺東海域修補後各測站風力資料統計表

年/月 港區	臺東海域	臺東海域	臺東海域	臺東海域	臺東海域	臺東海域	臺東海域	臺東海域	臺東海域	臺東海域	臺東海域	臺東海域
測站	W	Y	B	E	H	C	I	O	M	Q		
2014/12 月	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	*	*	*	*
2015/ 1 月	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	*	*	*	*
2015/ 2 月	672 (100%)	672 (100%)	672 (100%)	672 (100%)	672 (100%)	672 (100%)	672 (100%)	672 (100%)	*	*	*	*
2015/ 3 月	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	*	*	*	*
2015/ 4 月	720 (100%)	720 (100%)	720 (100%)	720 (100%)	720 (100%)	720 (100%)	720 (100%)	720 (100%)	*	*	*	*
2015/ 5 月	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	*	*	*	*
2015/ 6 月	720 (100%)	720 (100%)	720 (100%)	720 (100%)	720 (100%)	720 (100%)	720 (100%)	720 (100%)	*	*	*	*
2015/ 7 月	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	*	*	*	*
2015/ 8 月	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	*	*	*	*
2015/ 9 月	720 (100%)	720 (100%)	720 (100%)	720 (100%)	720 (100%)	720 (100%)	720 (100%)	720 (100%)	*	*	*	*
2015/10 月	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	*	*	*	*
2015/11 月	720 (100%)	720 (100%)	720 (100%)	720 (100%)	720 (100%)	720 (100%)	720 (100%)	720 (100%)	*	*	*	*
2015/冬季	2160 (100%)	2160 (100%)	2160 (100%)	2160 (100%)	2160 (100%)	2160 (100%)	2160 (100%)	2160 (100%)	*	*	*	*
2015/春季	2208 (100%)	2208 (100%)	2208 (100%)	2208 (100%)	2208 (100%)	2208 (100%)	2208 (100%)	2208 (100%)	*	*	*	*
2015/夏季	2208 (100%)	2208 (100%)	2208 (100%)	2208 (100%)	2208 (100%)	2208 (100%)	2208 (100%)	2208 (100%)	*	*	*	*
2015/秋季	2184 (100%)	2184 (100%)	2184 (100%)	2184 (100%)	2184 (100%)	2184 (100%)	2184 (100%)	2184 (100%)	*	*	*	*
2015/整年	8760 (100%)	8760 (100%)	8760 (100%)	8760 (100%)	8760 (100%)	8760 (100%)	8760 (100%)	8760 (100%)	*	*	*	*
起始年月	2014/12	2014/12	2014/12	2014/12	2014/12	2014/12	2014/12	2014/12	*	*	*	*
結束年月	2015/11	2015/11	2015/11	2015/11	2015/11	2015/11	2015/11	2015/11	*	*	*	*

Wind Speed in Ta-Tung Seas of LTE0 at 2015

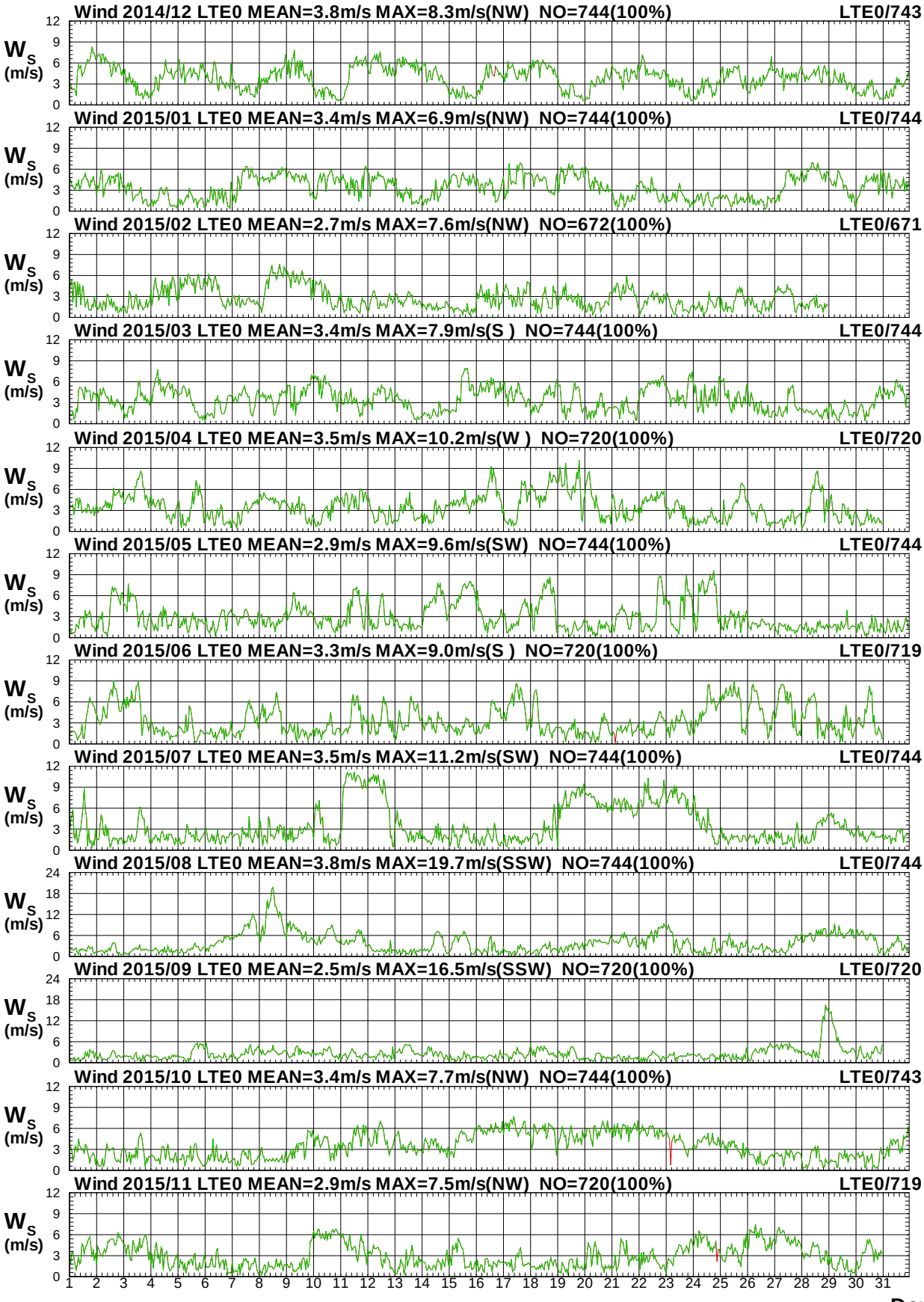

圖5.1a　2015年每月臺東海域 E 站修補前後之風速比較圖

W14CLTE0.1HA W14CLTE0.1H0 W151LTE0.1HA W151LTE0.1H0 W152LTE0.1HA W152LTE0.1H0
W153LTE0.1HA W153LTE0.1H0 W154LTE0.1HA W154LTE0.1H0 W155LTE0.1HA W155LTE0.1H0

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Wind Direction in Ta-Tung Seas of LTE0 at 2015

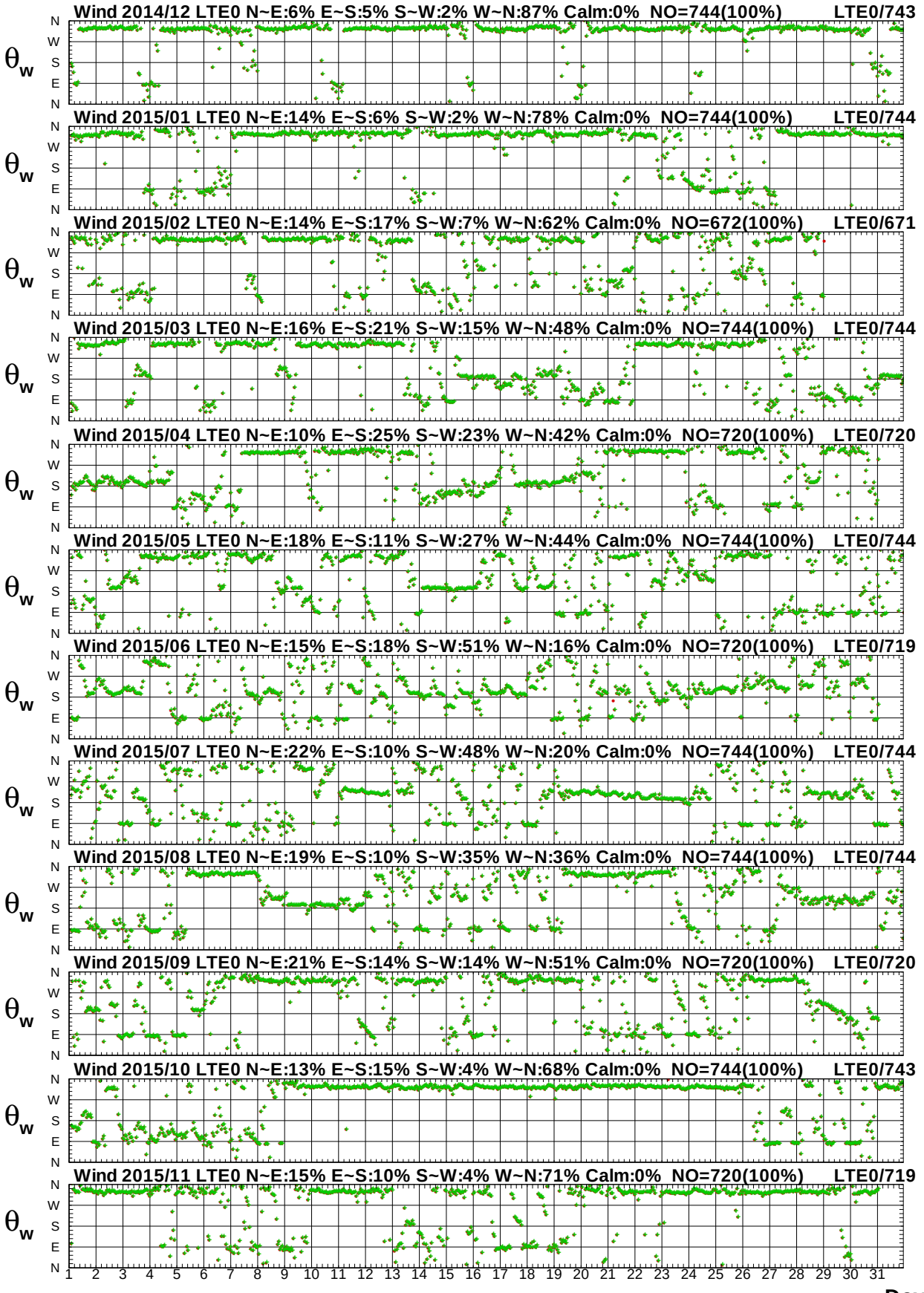

圖5.1b　2015年每月臺東海域 E 站修補前後之風向比較圖

Wind Speed in Ta-Tung Seas of LTE0 at 2015

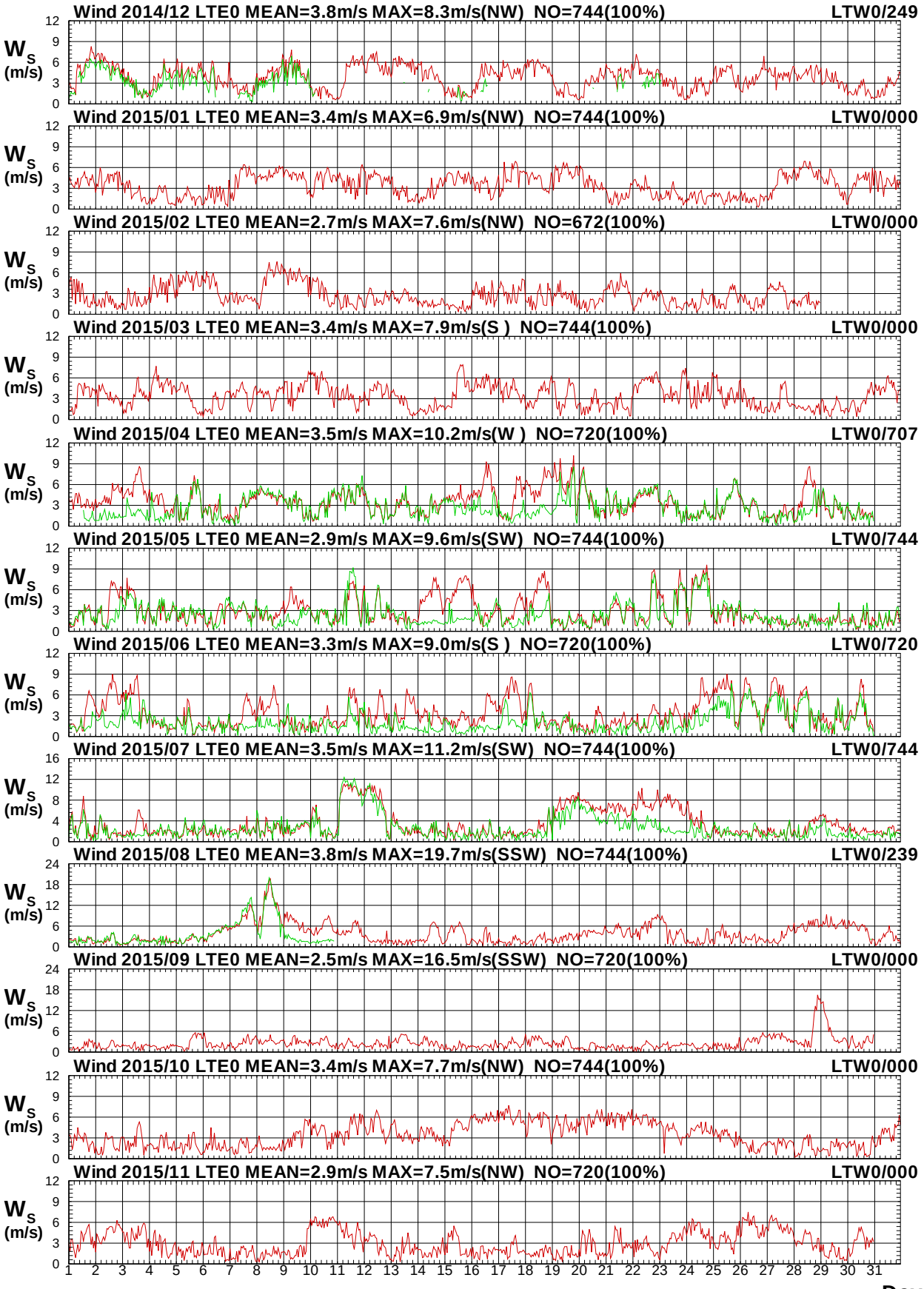

圖5.2a　2015年每月臺東海域 E 站與 W 站風速比較圖

W14CLTE0.1HA W14CLTW0.1H0 W151LTE0.1HA W151LTW0.1H0 W152LTE0.1HA W152LTW0.1H0
W153LTE0.1HA W153LTW0.1H0 W154LTE0.1HA W154LTW0.1H0 W155LTE0.1HA W155LTW0.1H0

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Wind Direction in Ta-Tung Seas of LTE0 at 2015

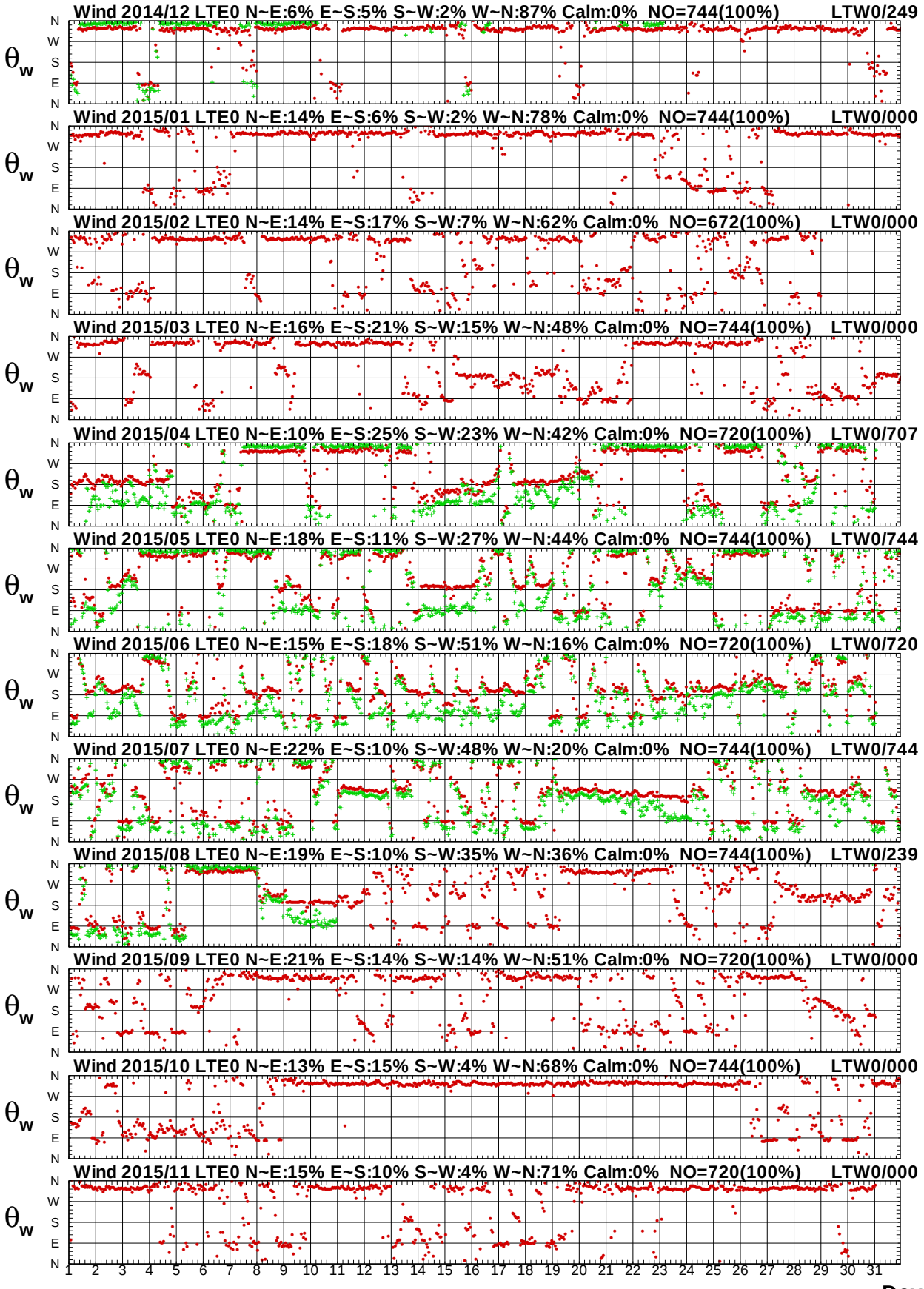

圖 5.2b　2015年每月臺東海域 E 站與 W 站風向比較圖

Wind Speed in Ta-Tung Seas of LTE0 at 2015

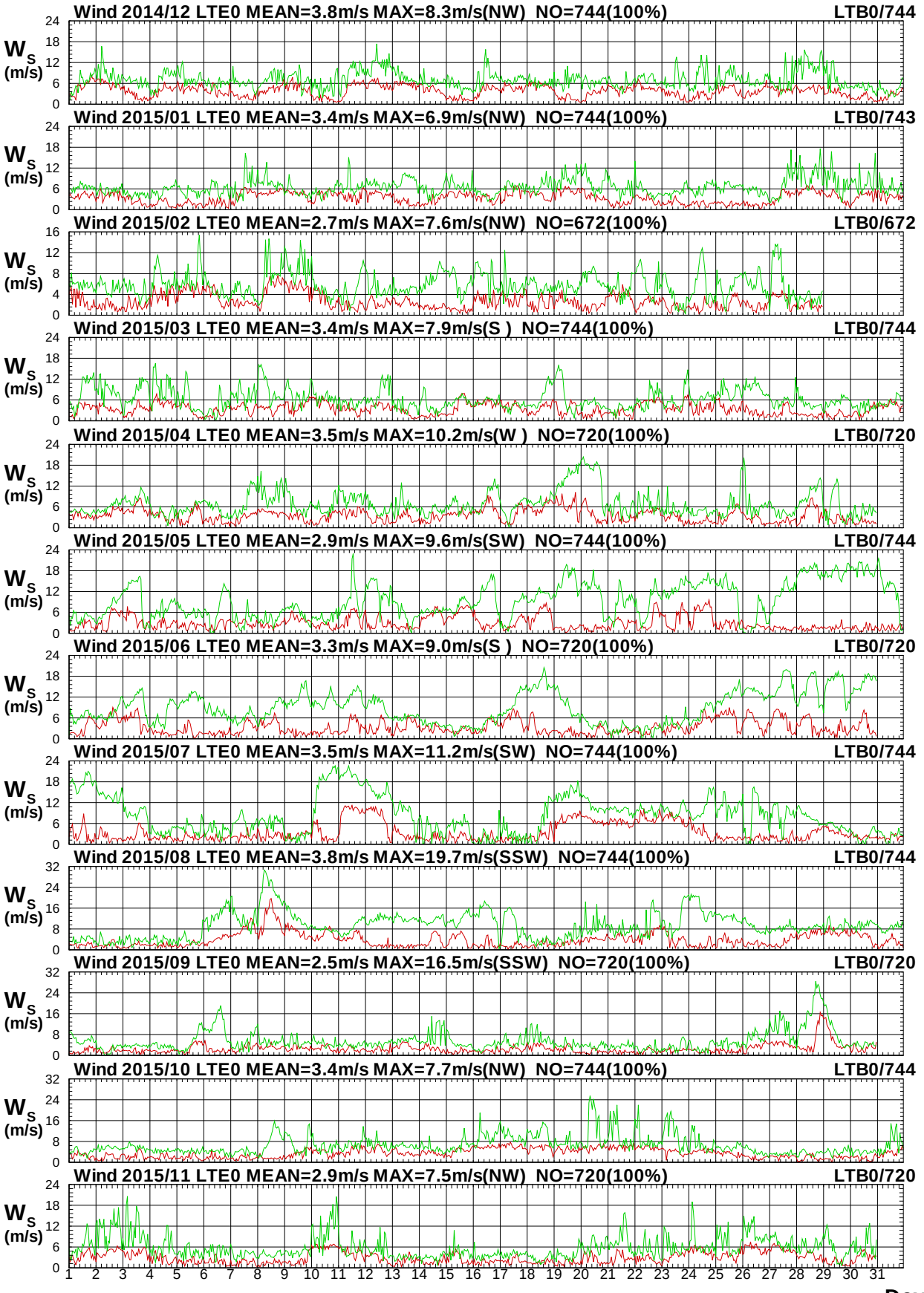

圖5.3a　2015年每月臺東海域 E 站與 B 站風速比較圖

W14CLTE0.1HA W14CLTB0.1H0 W151LTE0.1HA W151LTB0.1H0 W152LTE0.1HA W152LTB0.1H0
W153LTE0.1HA W153LTB0.1H0 W154LTE0.1HA W154LTB0.1H0 W155LTE0.1HA W155LTB0.1H0

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Wind Direction in Ta-Tung Seas of LTE0 at 2015

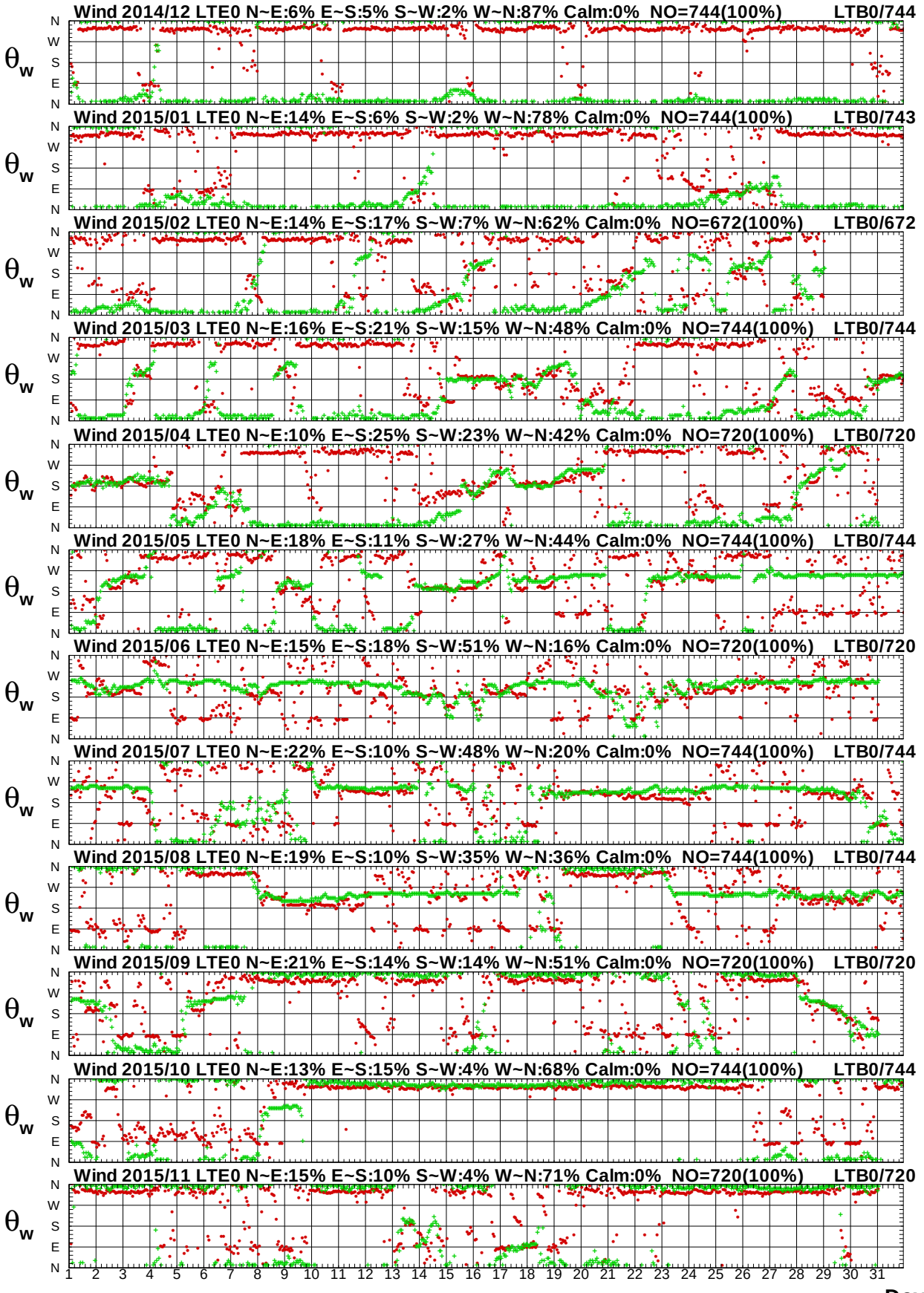

圖 5.3b　2015年每月臺東海域 E 站與 B 站風向比較圖

W14CLTE0.1HA W14CLTB0.1H0 W151LTE0.1HA W151LTB0.1H0 W152LTE0.1HA W152LTB0.1H0
W153LTE0.1HA W153LTB0.1H0 W154LTE0.1HA W154LTB0.1H0 W155LTE0.1HA W155LTB0.1H0

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Wind Speed in Ta-Tung Seas of LTE0 at 2015

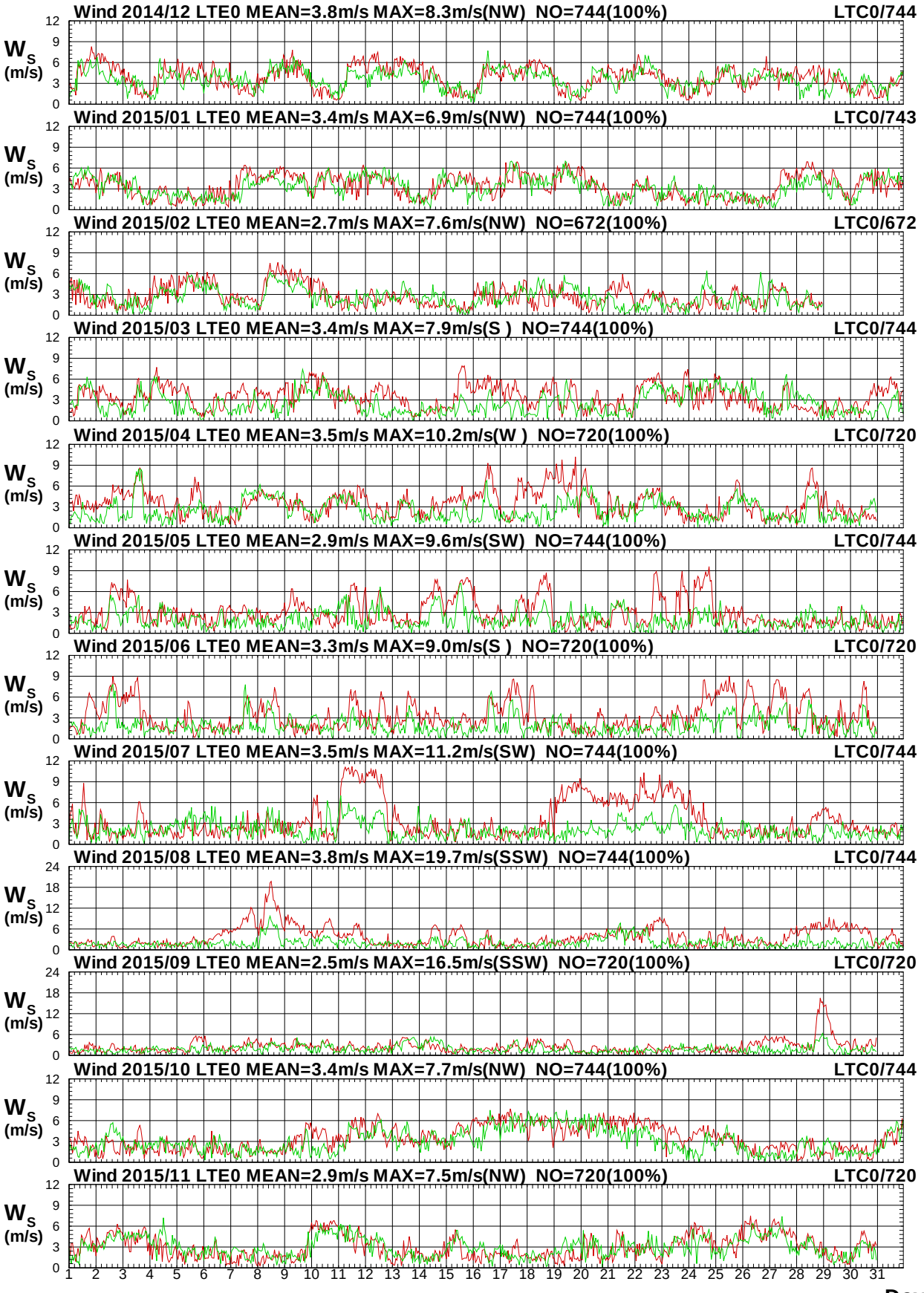

圖 5.4a　2015年每月臺東海域 E 站與 C 站風速比較圖

W14CLTE0.1HA W14CLTC0.1H0 W151LTE0.1HA W151LTC0.1H0 W152LTE0.1HA W152LTC0.1H0
W153LTE0.1HA W153LTC0.1H0 W154LTE0.1HA W154LTC0.1H0 W155LTE0.1HA W155LTC0.1H0

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Wind Direction in Ta-Tung Seas of LTE0 at 2015

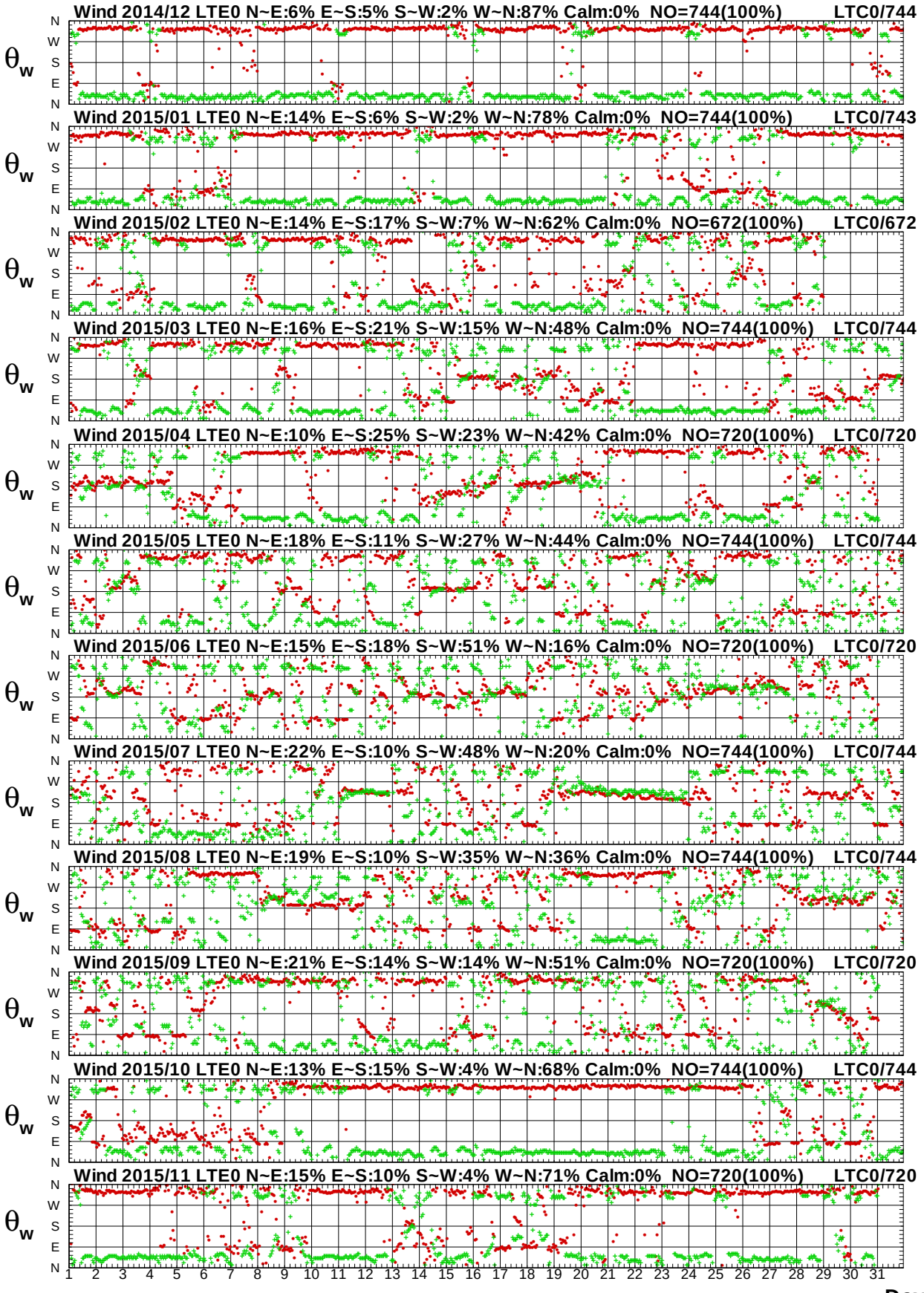

圖 5.4b　2015年每月臺東海域 E 站與 C 站風向比較圖

Wind Speed in Ta-Tung Seas of LTE0 at 2015

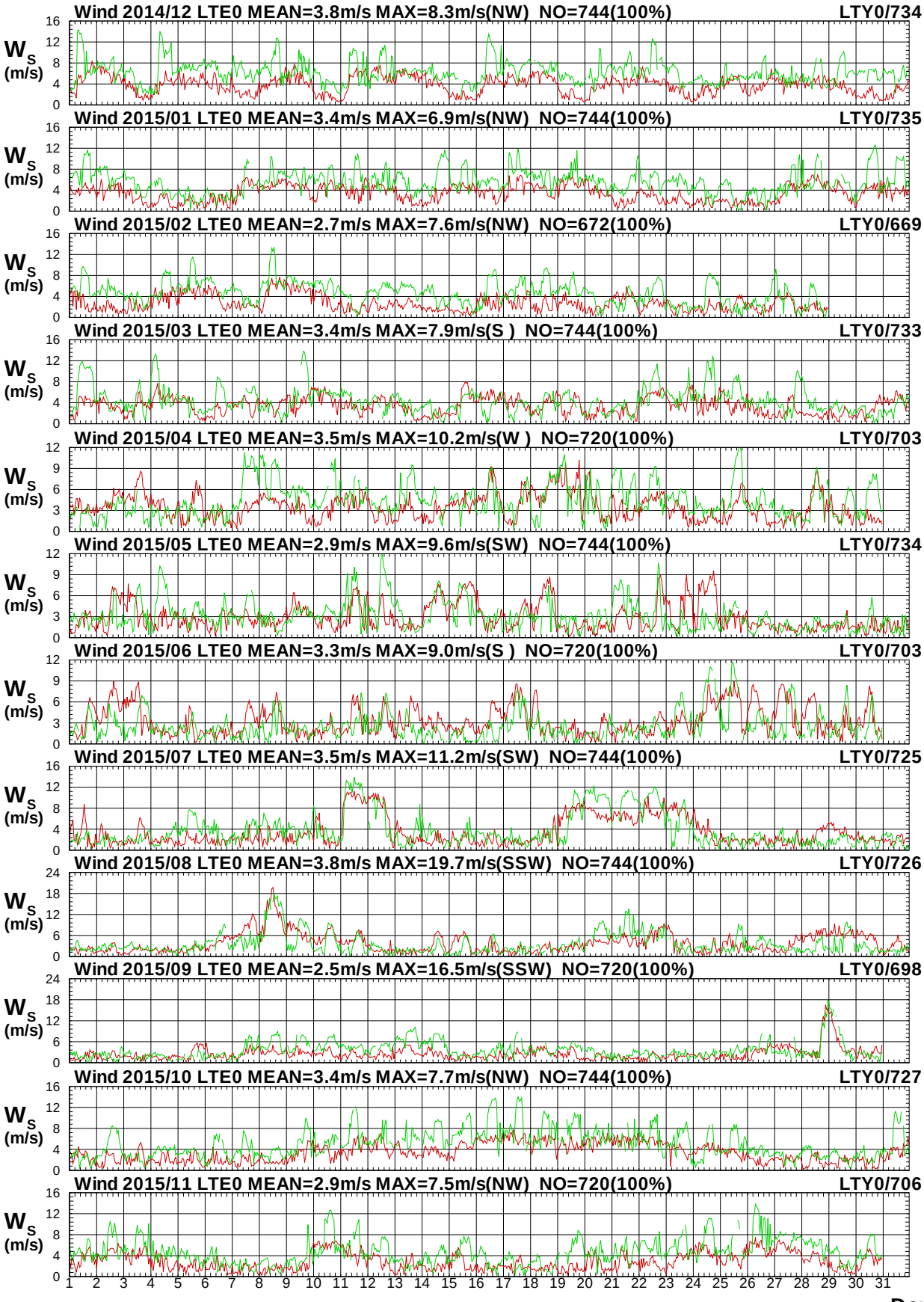

圖5.5a　2015年每月臺東海域 E 站與 Y 站風速比較圖

W14CLTE0.1HA W14CLTY0.1H0 W151LTE0.1HA W151LTY0.1H0 W152LTE0.1HA W152LTY0.1H0
W153LTE0.1HA W153LTY0.1H0 W154LTE0.1HA W154LTY0.1H0 W155LTE0.1HA W155LTY0.1H0

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Wind Direction in Ta-Tung Seas of LTE0 at 2015

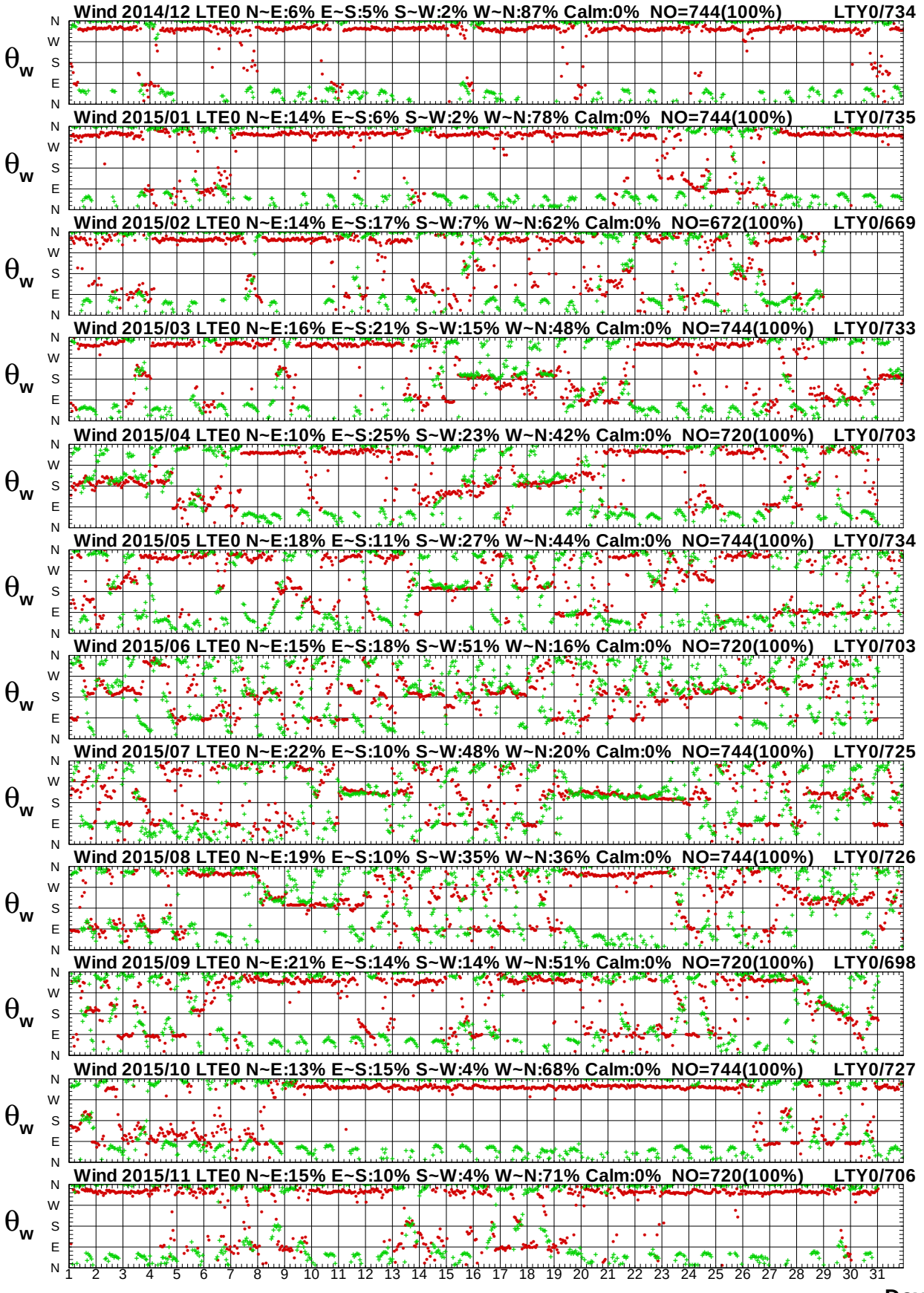

圖 5.5b　2015年每月臺東海域 E 站與 Y 站風向比較圖

Wind Speed in Ta-Tung Seas of LTE0 at 2015

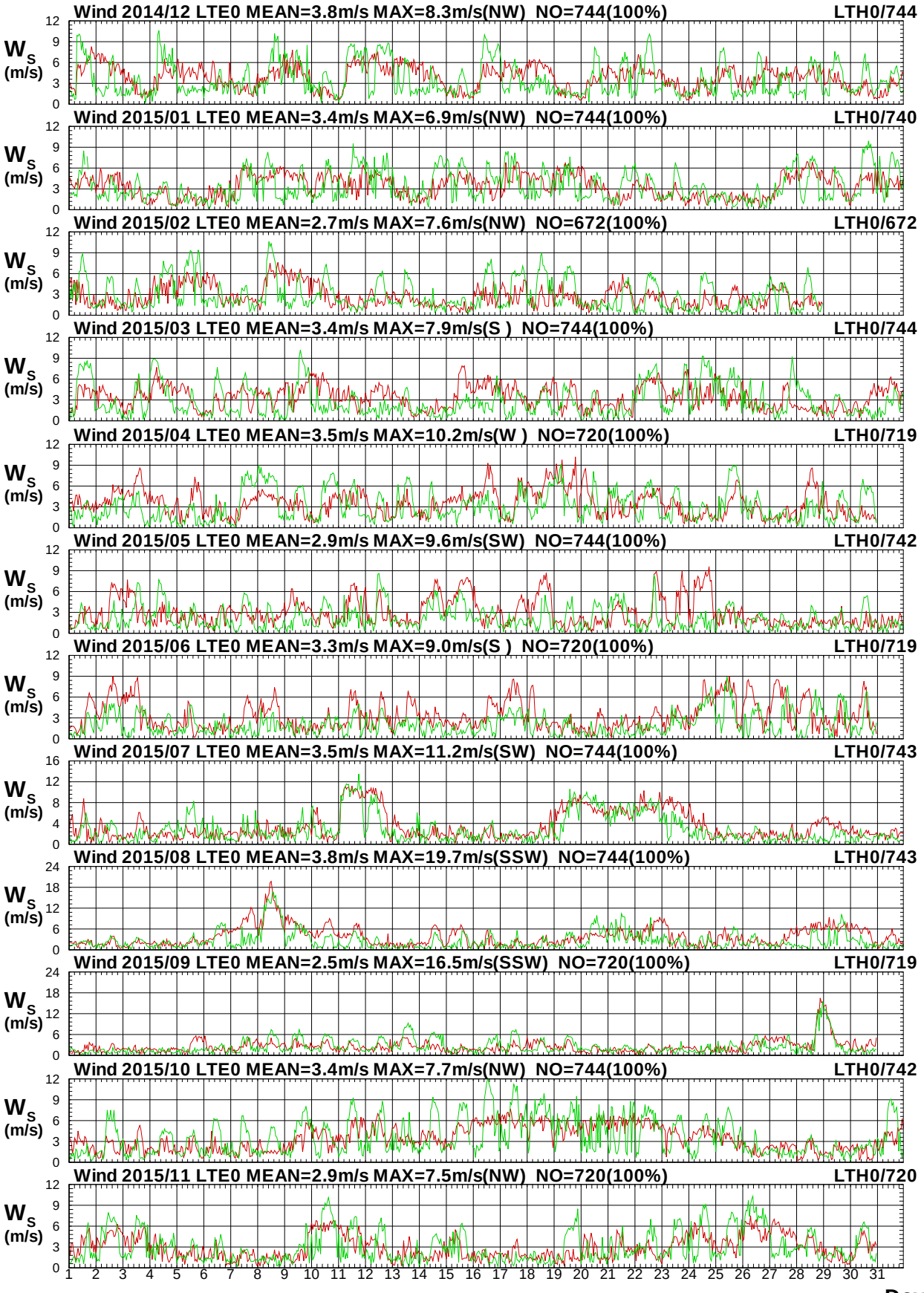

圖5.6a　2015年每月臺東海域 E 站與 H 站風速比較圖

W14CLTE0.1HA W14CLTH0.1H0 W151LTE0.1HA W151LTH0.1H0 W152LTE0.1HA W152LTH0.1H0
W153LTE0.1HA W153LTH0.1H0 W154LTE0.1HA W154LTH0.1H0 W155LTE0.1HA W155LTH0.1H0

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Wind Direction in Ta-Tung Seas of LTE0 at 2015

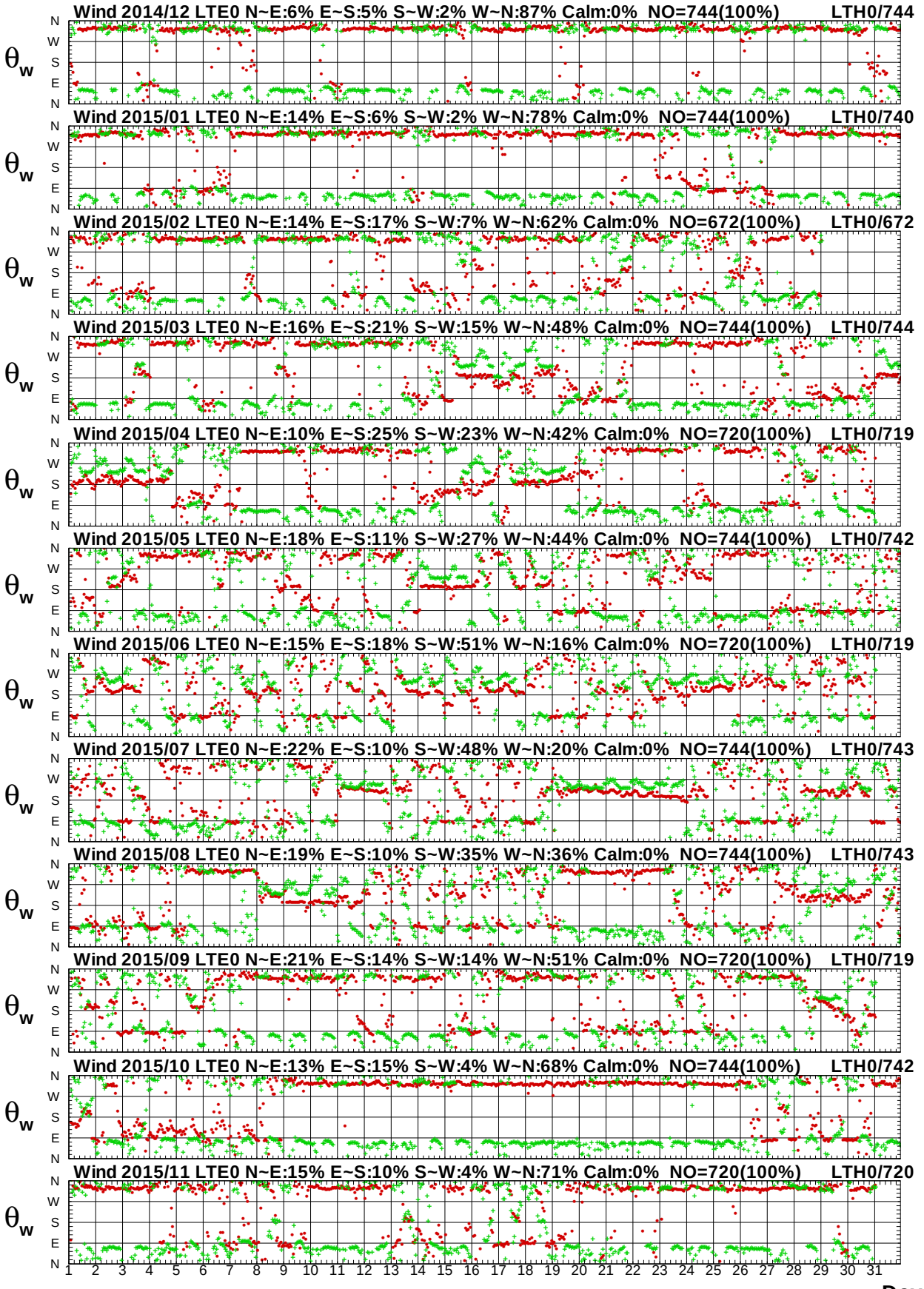

圖 5.6b　2015年每月臺東海域 E 站與 H 站風向比較圖

Wind Speed in Ta-Tung Seas of LTE0 at 2015

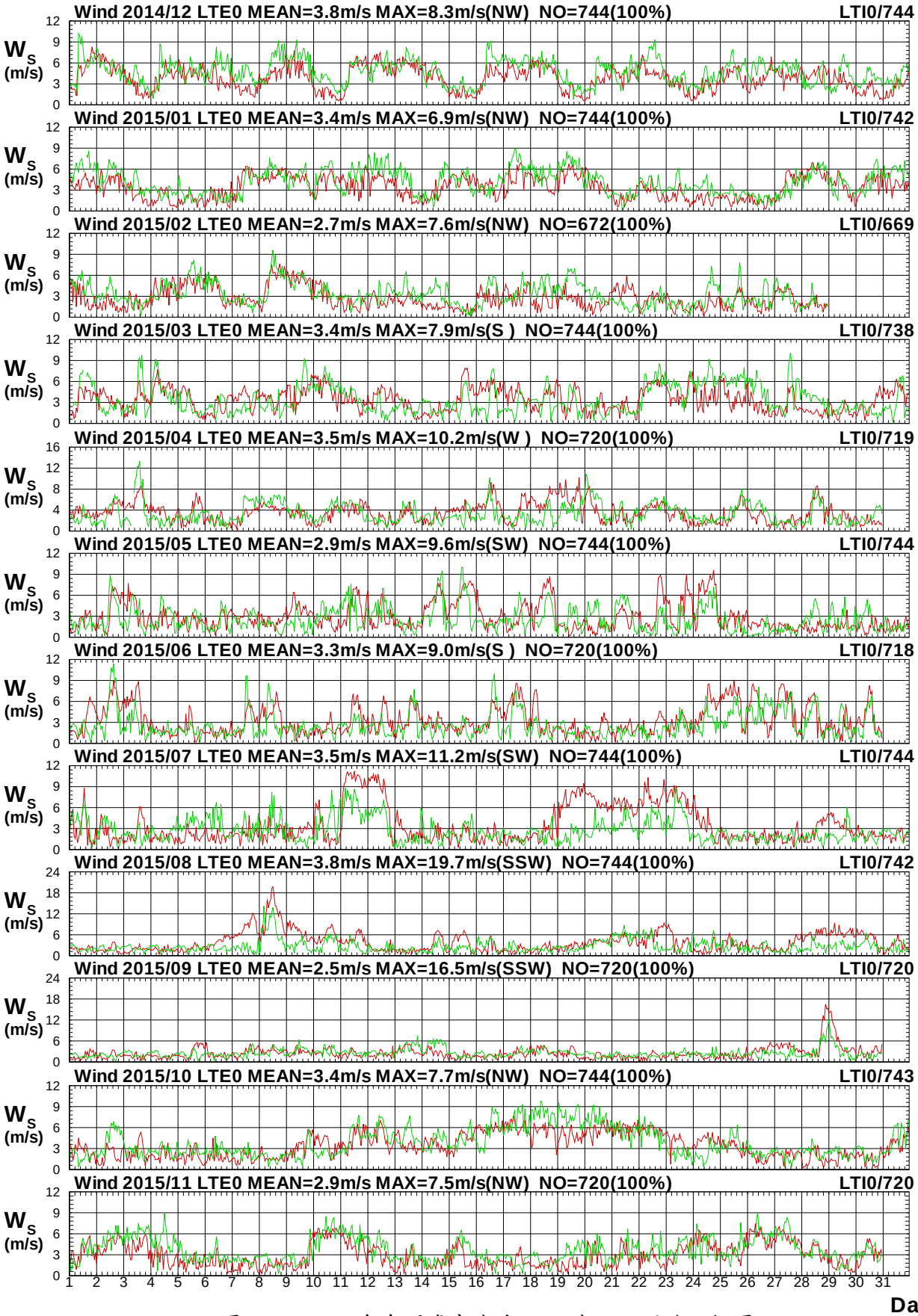

圖5.7a　2015年每月臺東海域 E 站與 I 站風速比較圖

W14CLTE0.1HA W14CLTI0.1H0 W151LTE0.1HA W151LTI0.1H0 W152LTE0.1HA W152LTI0.1H0
W153LTE0.1HA W153LTI0.1H0 W154LTE0.1HA W154LTI0.1H0 W155LTE0.1HA W155LTI0.1H0

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Wind Direction in Ta-Tung Seas of LTE0 at 2015

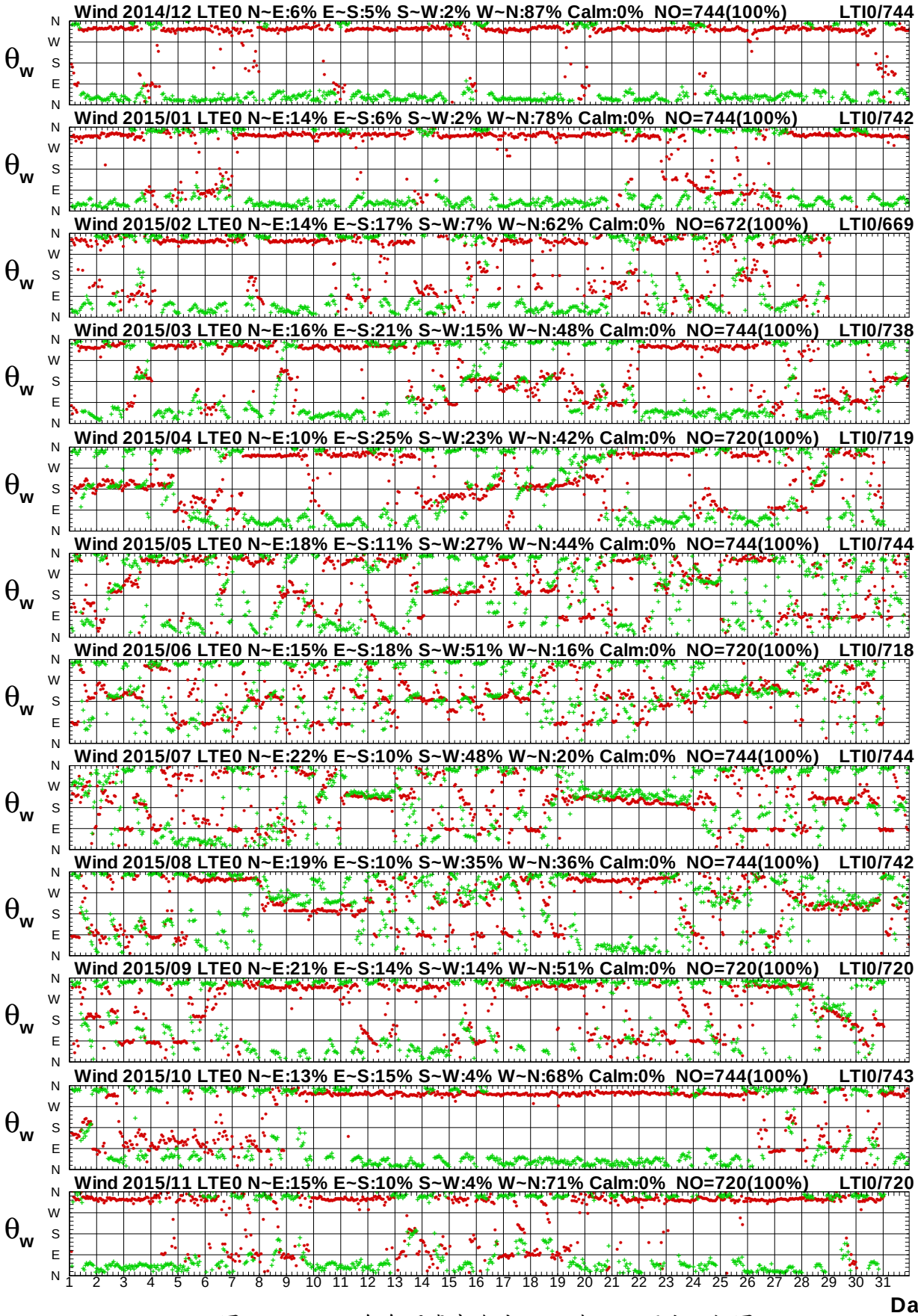

圖5.7b　2015年每月臺東海域 E 站與 I 站風向比較圖

W14CLTE0.1HA W14CLTI0.1H0 W151LTE0.1HA W151LTI0.1H0 W152LTE0.1HA W152LTI0.1H0
W153LTE0.1HA W153LTI0.1H0 W154LTE0.1HA W154LTI0.1H0 W155LTE0.1HA W155LTI0.1H0

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Wind Speed in Ta-Tung Seas of LTE0 at 2015

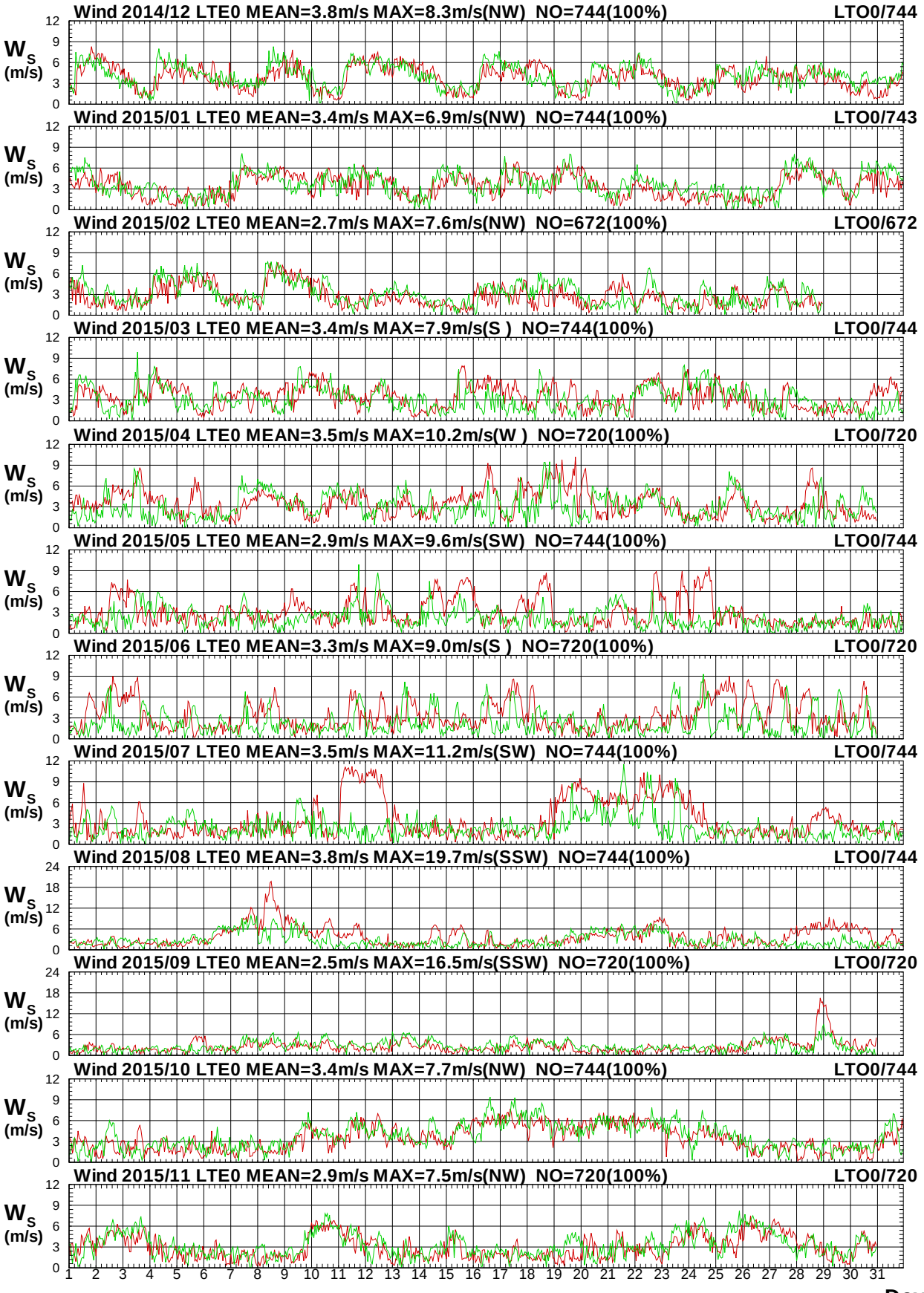

圖5.8a　2015年每月臺東海域 E 站與 O 站風速比較圖

W14CLTE0.1HA W14CLTO0.1H0 W151LTE0.1HA W151LTO0.1H0 W152LTE0.1HA W152LTO0.1H0
W153LTE0.1HA W153LTO0.1H0 W154LTE0.1HA W154LTO0.1H0 W155LTE0.1HA W155LTO0.1H0

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Wind Direction in Ta-Tung Seas of LTE0 at 2015

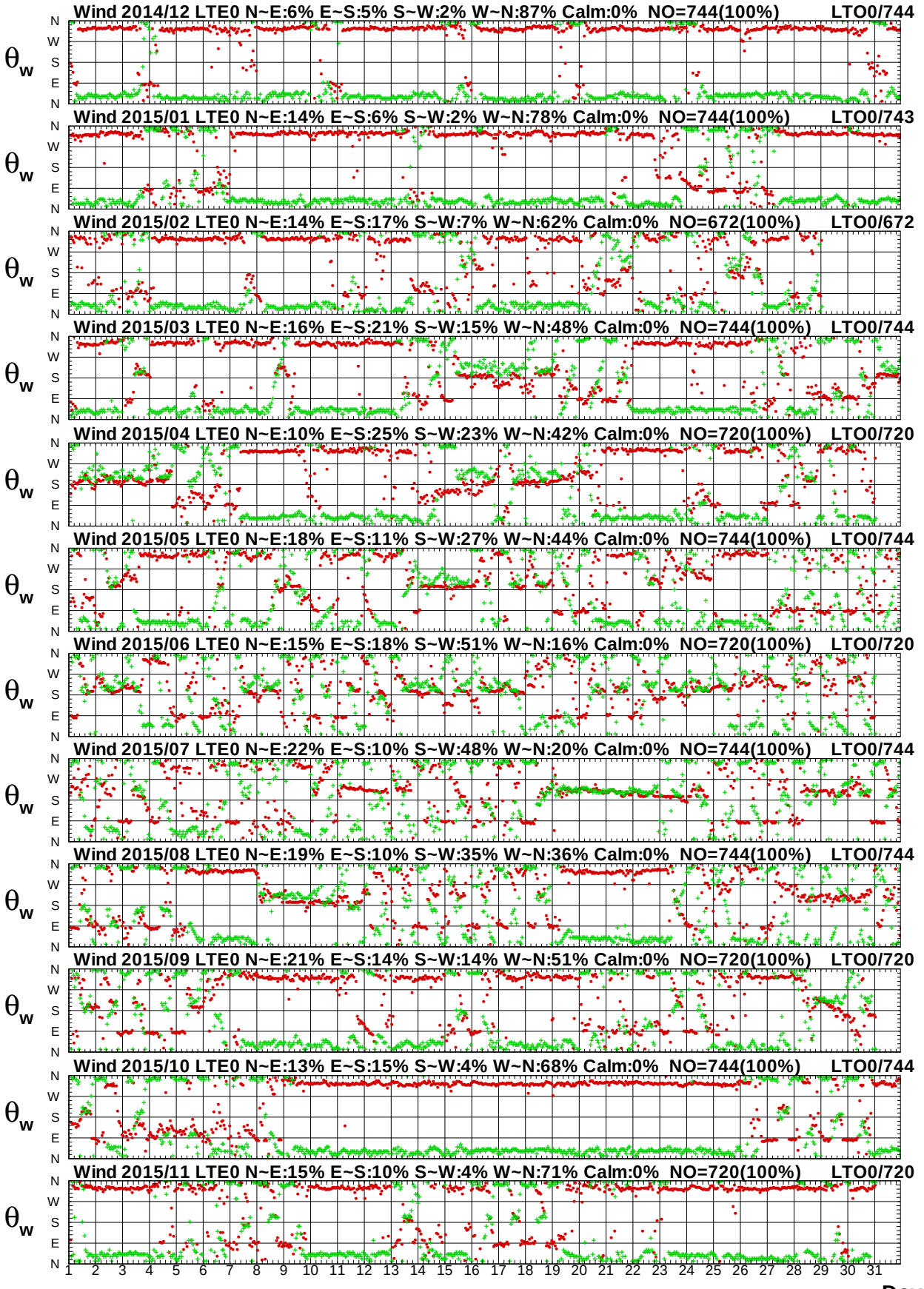

圖 5.8b　2015年每月臺東海域 E 站與 O 站風向比較圖

Wind Speed in Ta-Tung Seas of LTE0 at 2015

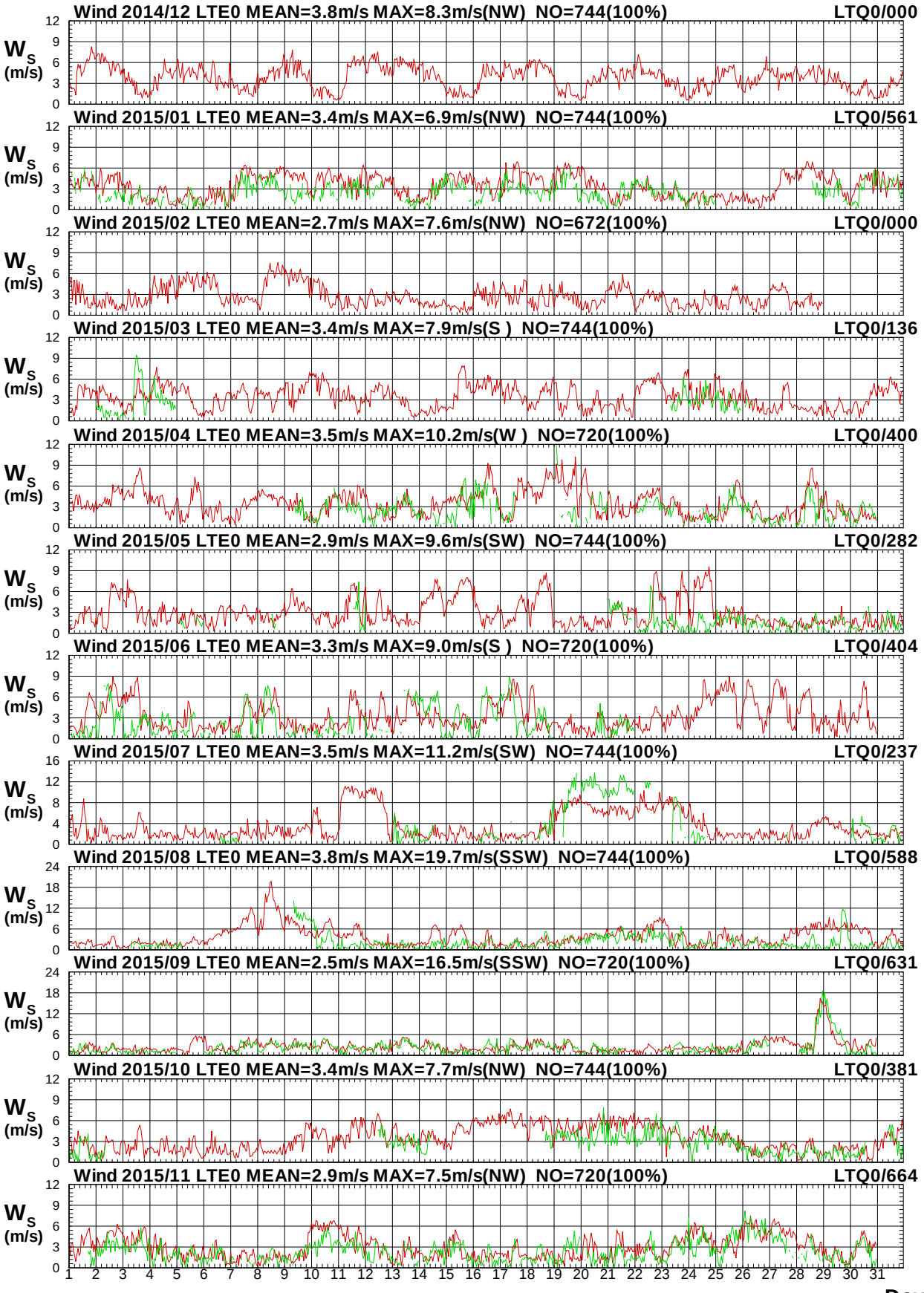

圖 5.9a　2015年每月臺東海域 E 站與 Q 站風速比較圖

W14CLTE0.1HA W14CLTQ0.1H0 W151LTE0.1HA W151LTQ0.1H0 W152LTE0.1HA W152LTQ0.1H0
W153LTE0.1HA W153LTQ0.1H0 W154LTE0.1HA W154LTQ0.1H0 W155LTE0.1HA W155LTQ0.1H0

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Wind Direction in Ta-Tung Seas of LTE0 at 2015

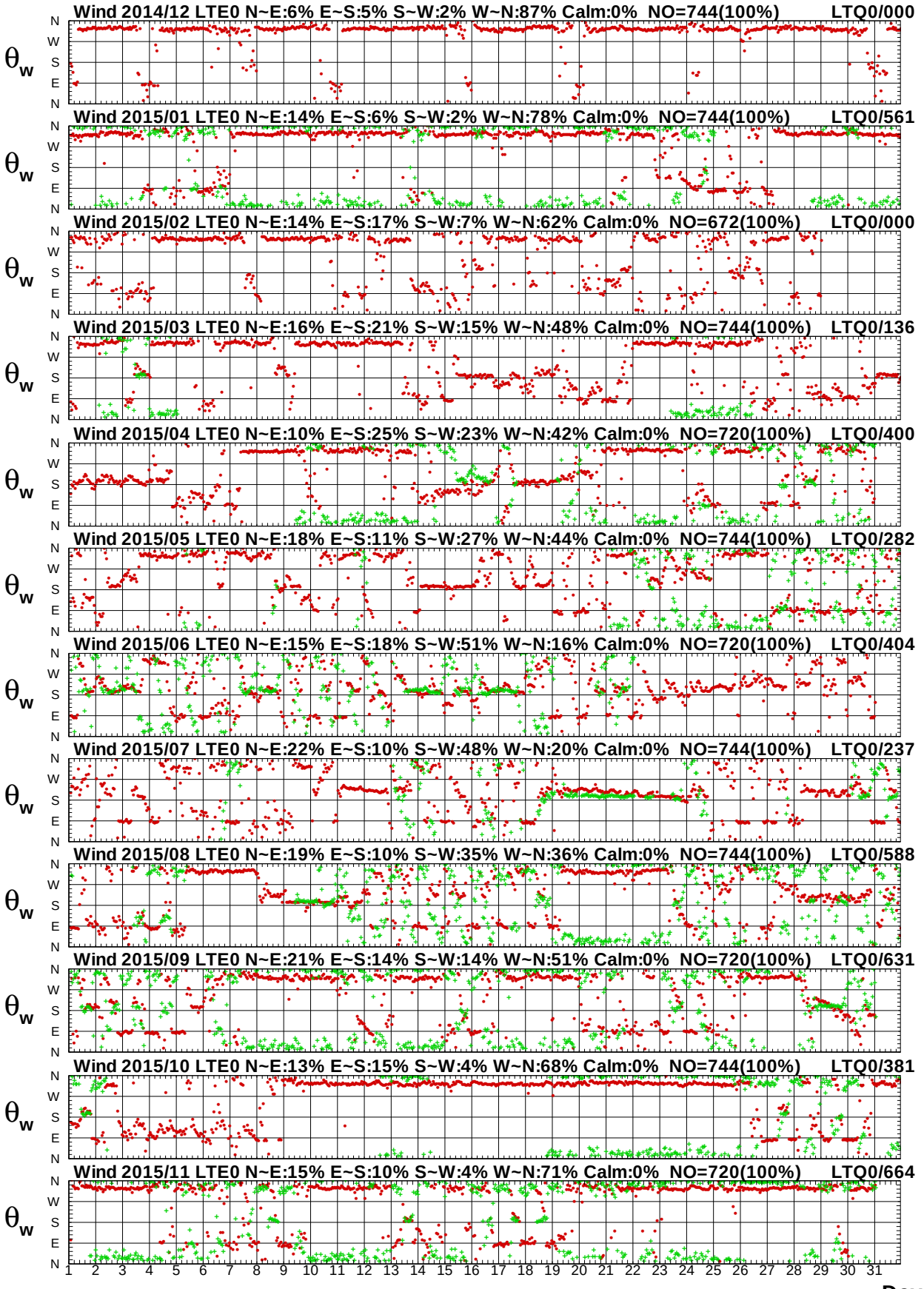

圖 5.9b　2015年每月臺東海域 E 站與 Q 站風向比較圖

Wind Speed in Ta-Tung Seas of LTE0 at 2015

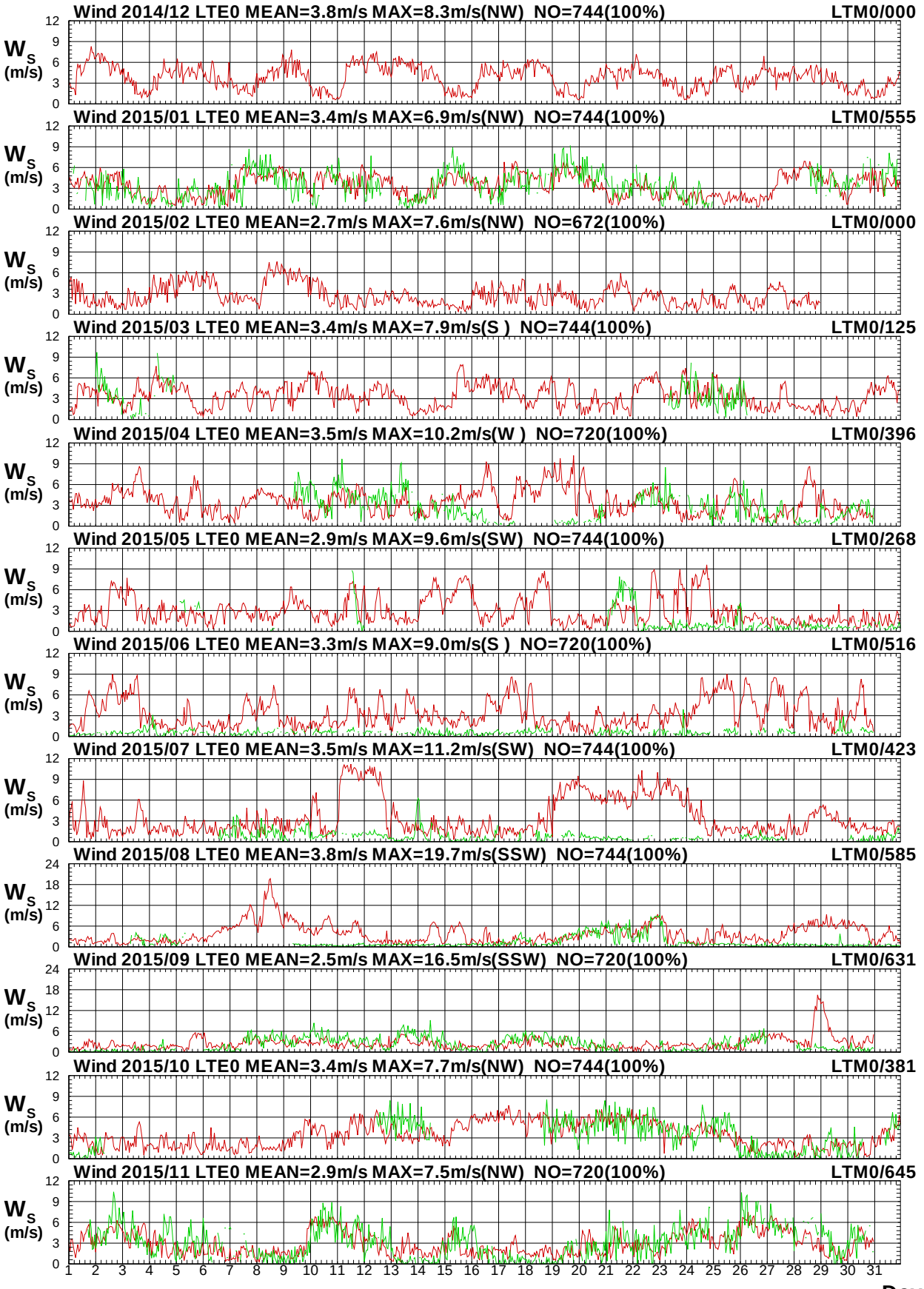

圖5.10a　2015年每月臺東海域 E 站與 M 站風速比較圖

W14CLTE0.1HA W14CLTM0.1H0 W151LTE0.1HA W151LTM0.1H0 W152LTE0.1HA W152LTM0.1H0
W153LTE0.1HA W153LTM0.1H0 W154LTE0.1HA W154LTM0.1H0 W155LTE0.1HA W155LTM0.1H0

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Wind Direction in Ta-Tung Seas of LTE0 at 2015

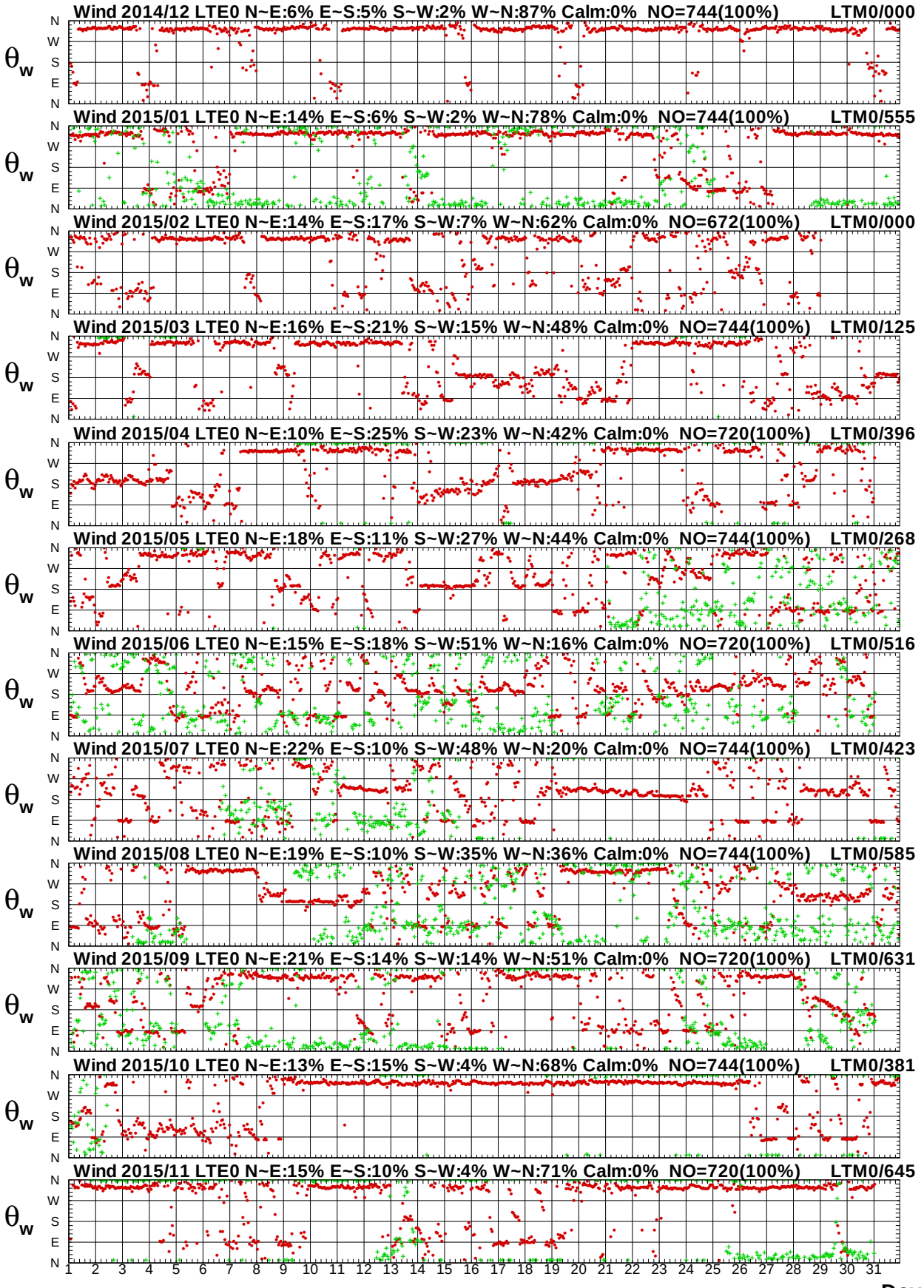

圖5.10b　2015年每月臺東海域 E 站與 M 站風向比較圖

W14CLTE0.1HA W14CLTM0.1H0 W151LTE0.1HA W151LTM0.1H0 W152LTE0.1HA W152LTM0.1H0
W153LTE0.1HA W153LTM0.1H0 W154LTE0.1HA W154LTM0.1H0 W155LTE0.1HA W155LTM0.1H0

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Wind Speed in Ta-Tung Seas of LTE0 at 2015

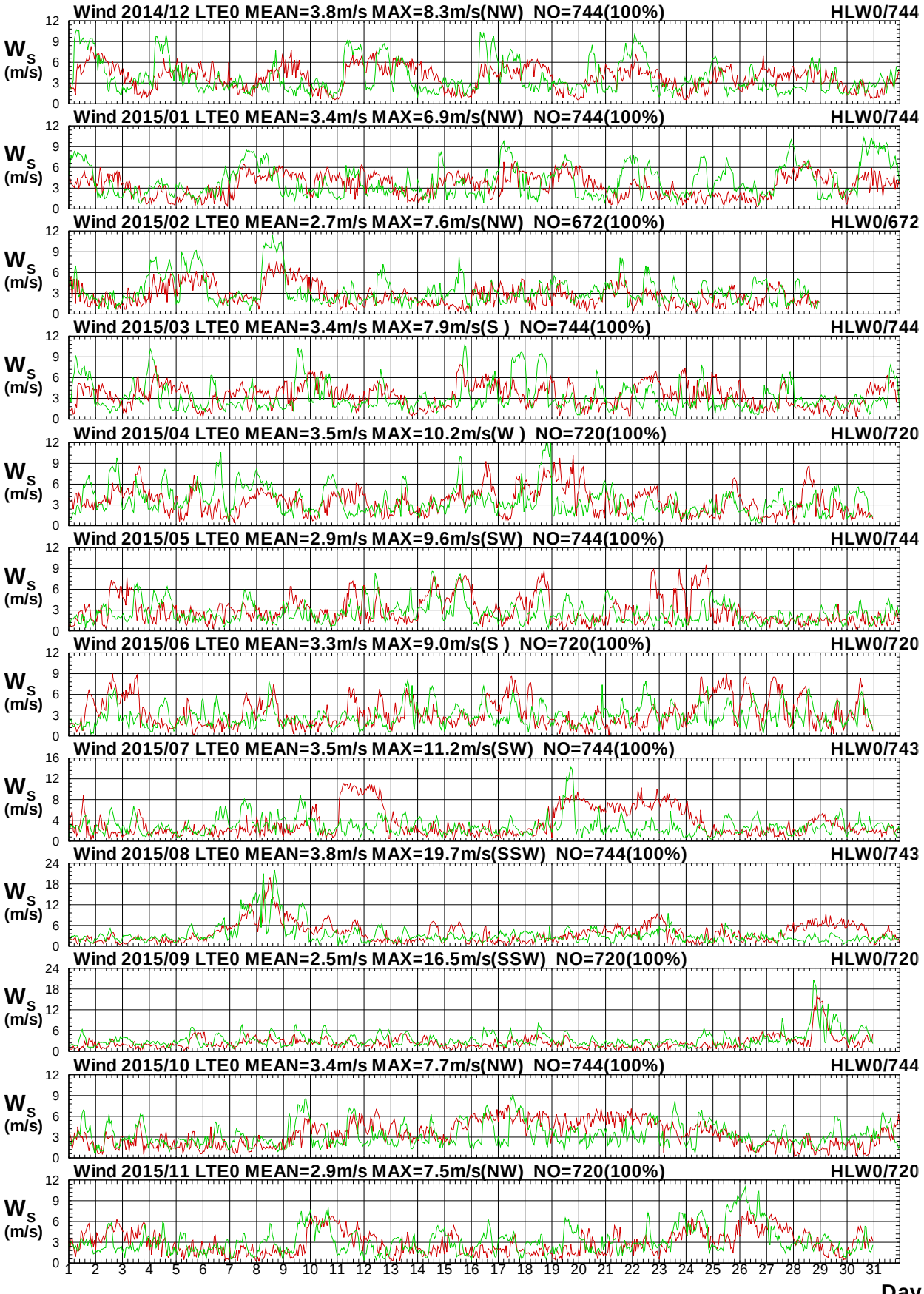

圖5.11a　2015年每月臺東海域 E 站與花蓮海域 W 站風速圖

W14CLTE0.1HA W14CHLW0.1H0 W151LTE0.1HA W151HLW0.1H0 W152LTE0.1HA W152HLW0.1H0
W153LTE0.1HA W153HLW0.1H0 W154LTE0.1HA W154HLW0.1H0 W155LTE0.1HA W155HLW0.1H0

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Wind Direction in Ta-Tung Seas of LTE0 at 2015

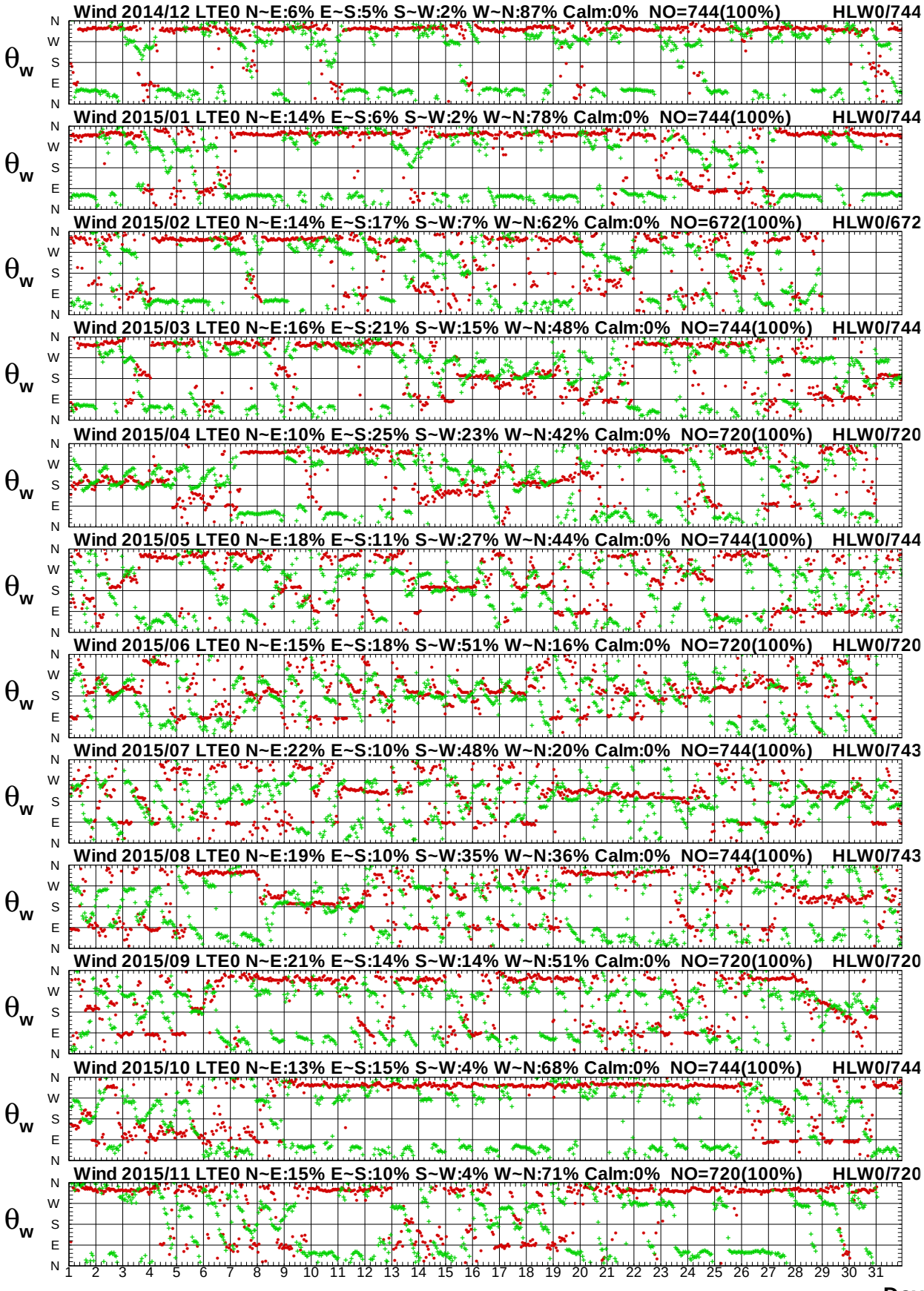

圖5.11b　2015年每月臺東海域 E 站與花蓮海域 W 站風向圖

Wind Speed in Ta-Tung Seas of LTE0 at 2015

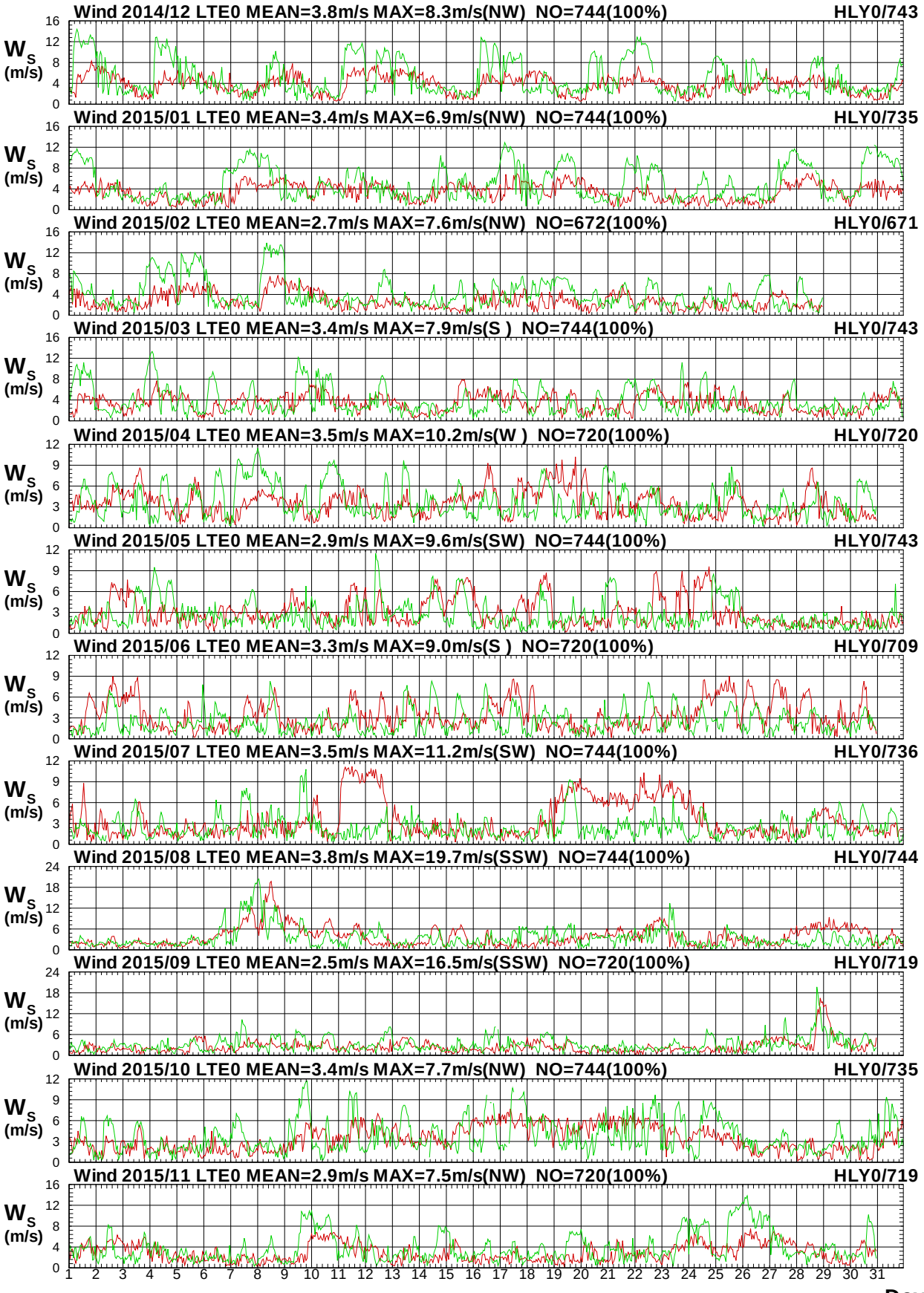

圖5.12a　2015年每月臺東海域 E 站與花蓮海域 Y 站風速圖

Wind Direction in Ta-Tung Seas of LTE0 at 2015

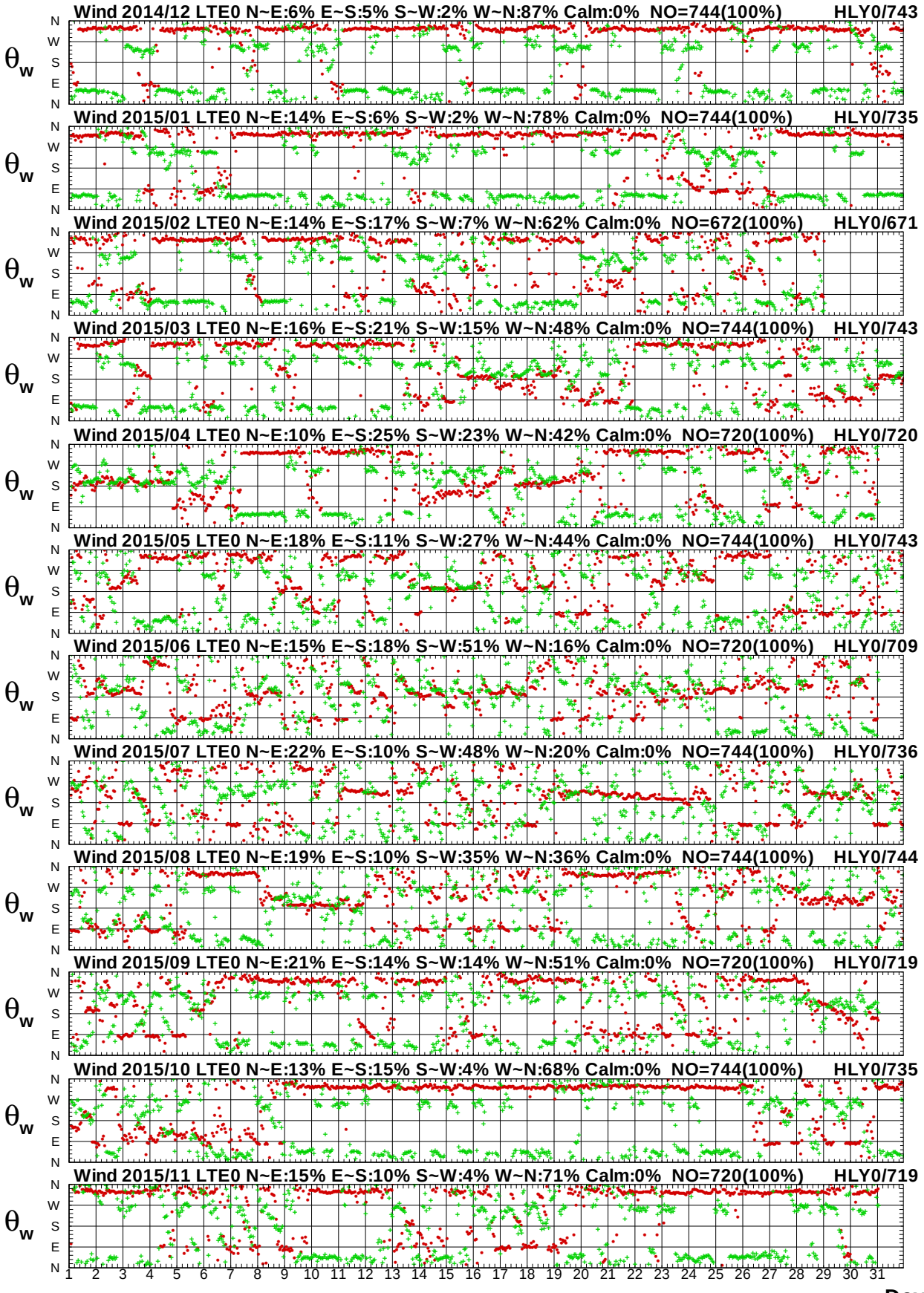

圖5.12b　2015年每月臺東海域 E 站與花蓮海域 Y 站風向圖

W14CLTE0.1HA W14CHLY0.1H0 W151LTE0.1HA W151HLY0.1H0 W152LTE0.1HA W152HLY0.1H0
W153LTE0.1HA W153HLY0.1H0 W154LTE0.1HA W154HLY0.1H0 W155LTE0.1HA W155HLY0.1H0

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Wind Speed in Ta-Tung Seas of LTE0 at 2015

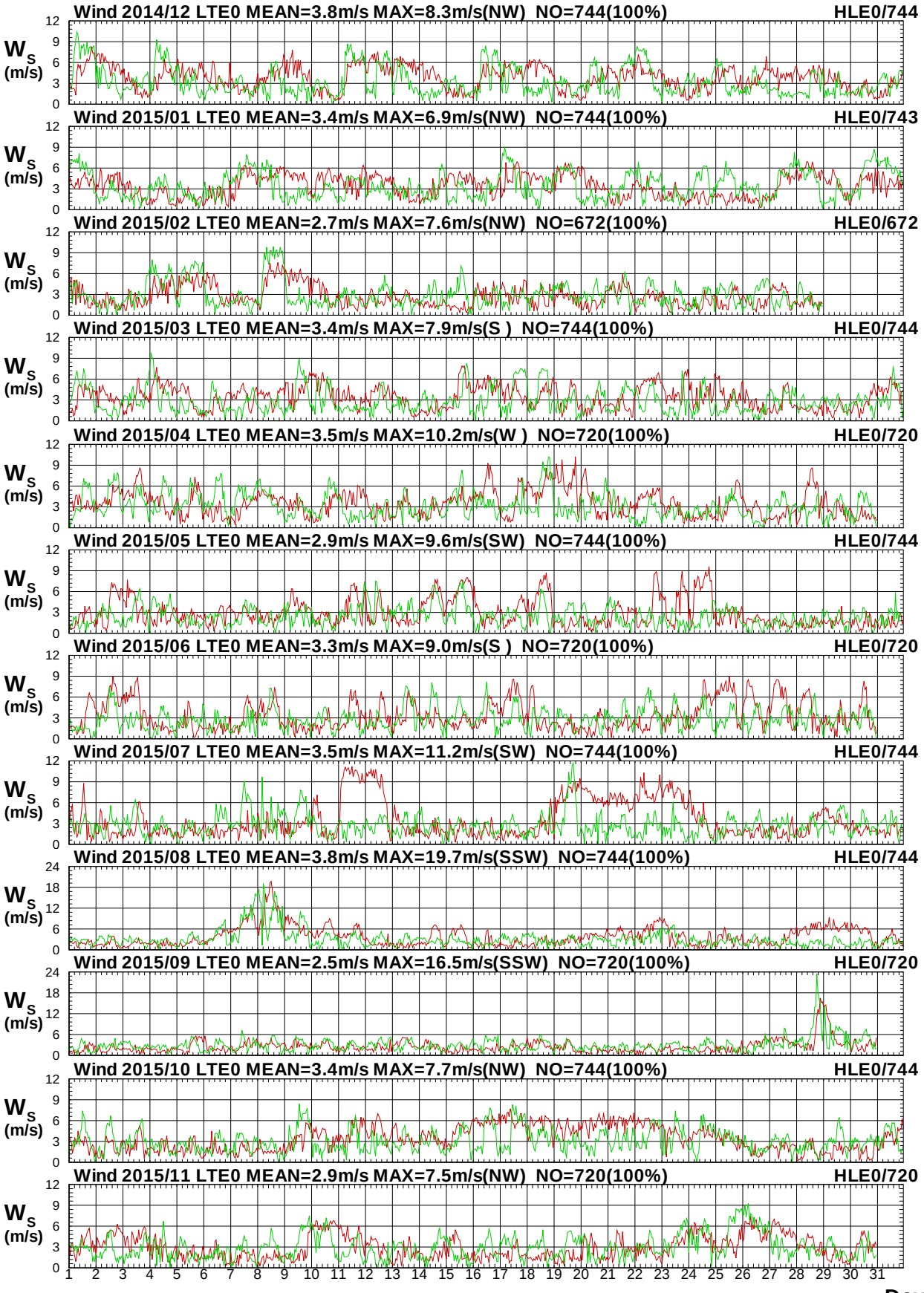

圖5.13a　2015年每月臺東海域 E 站與花蓮海域 E 站風速圖

W14CLTE0.1HA W14CHLE0.1H0 W151LTE0.1HA W151HLE0.1H0 W152LTE0.1HA W152HLE0.1H0
W153LTE0.1HA W153HLE0.1H0 W154LTE0.1HA W154HLE0.1H0 W155LTE0.1HA W155HLE0.1H0

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Wind Direction in Ta-Tung Seas of LTE0 at 2015

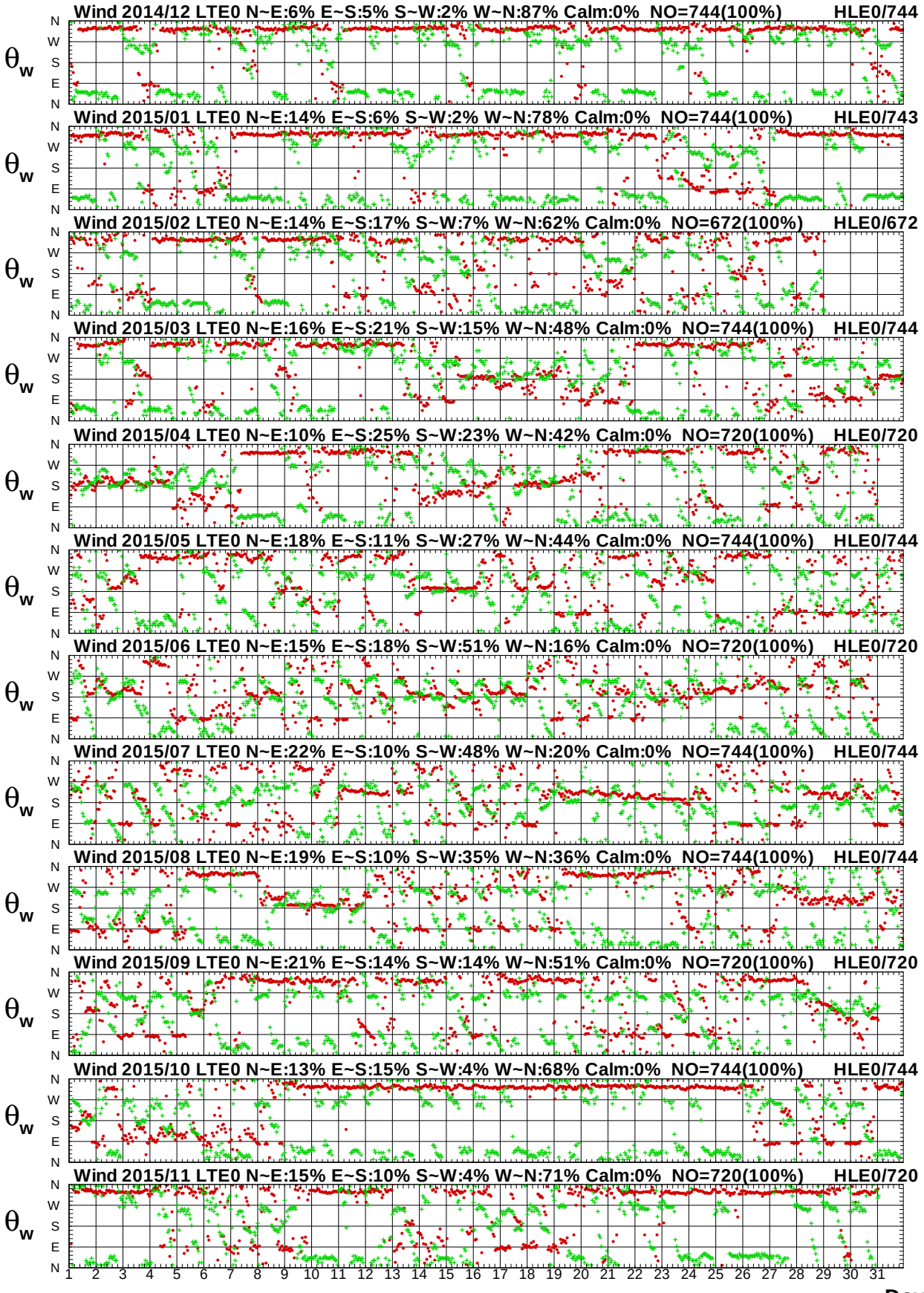

圖5.13b　2015年每月臺東海域 E 站與花蓮海域 E 站風向圖

Wind Speed in Ta-Tung Seas of LTE0 at 2015

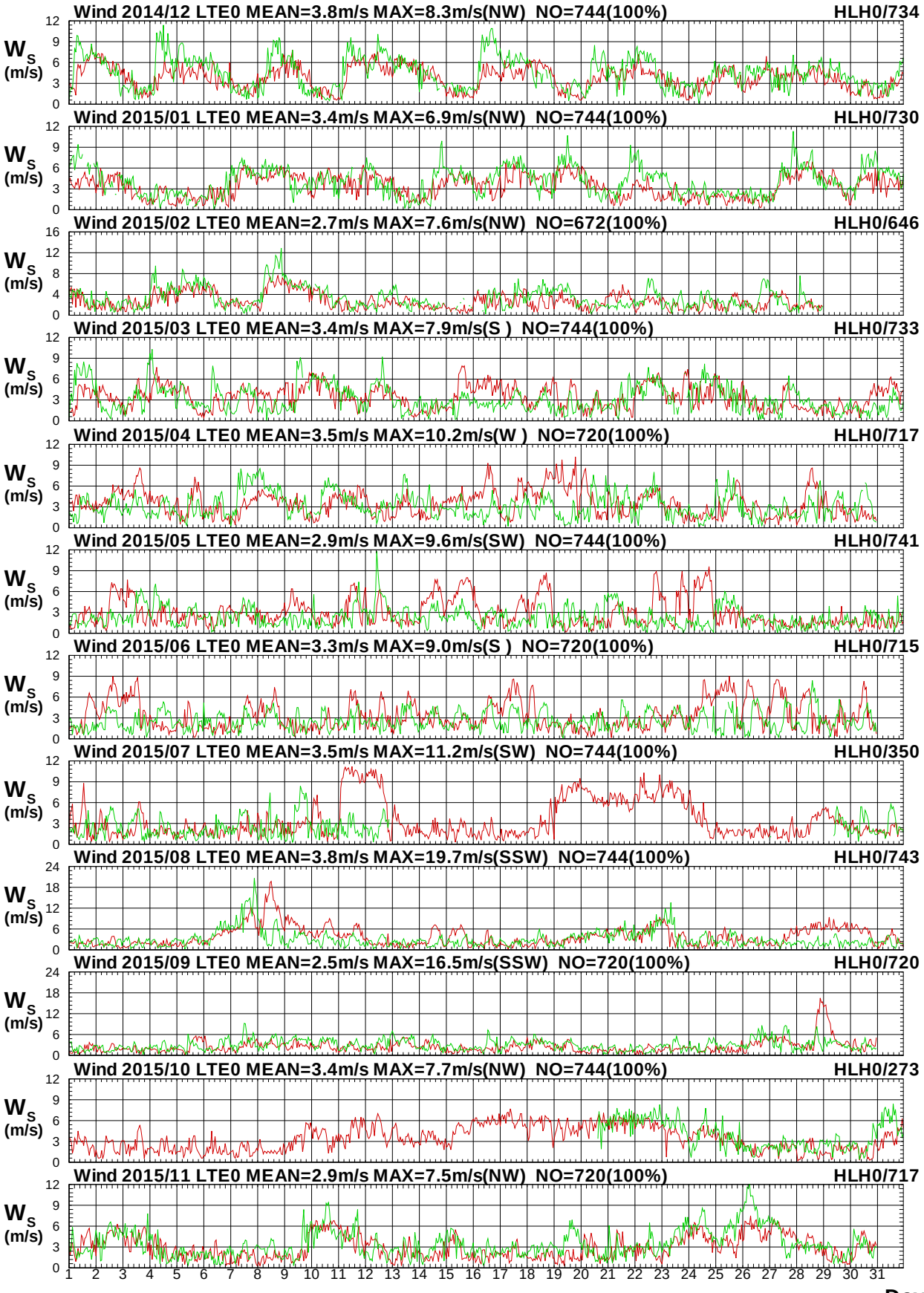

圖5.14a　2015年每月臺東海域 E 站與花蓮海域 H 站風速圖

W14CLTE0.1HA W14CHLH0.1H0 W151LTE0.1HA W151HLH0.1H0 W152LTE0.1HA W152HLH0.1H0
W153LTE0.1HA W153HLH0.1H0 W154LTE0.1HA W154HLH0.1H0 W155LTE0.1HA W155HLH0.1H0

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Wind Direction in Ta-Tung Seas of LTE0 at 2015

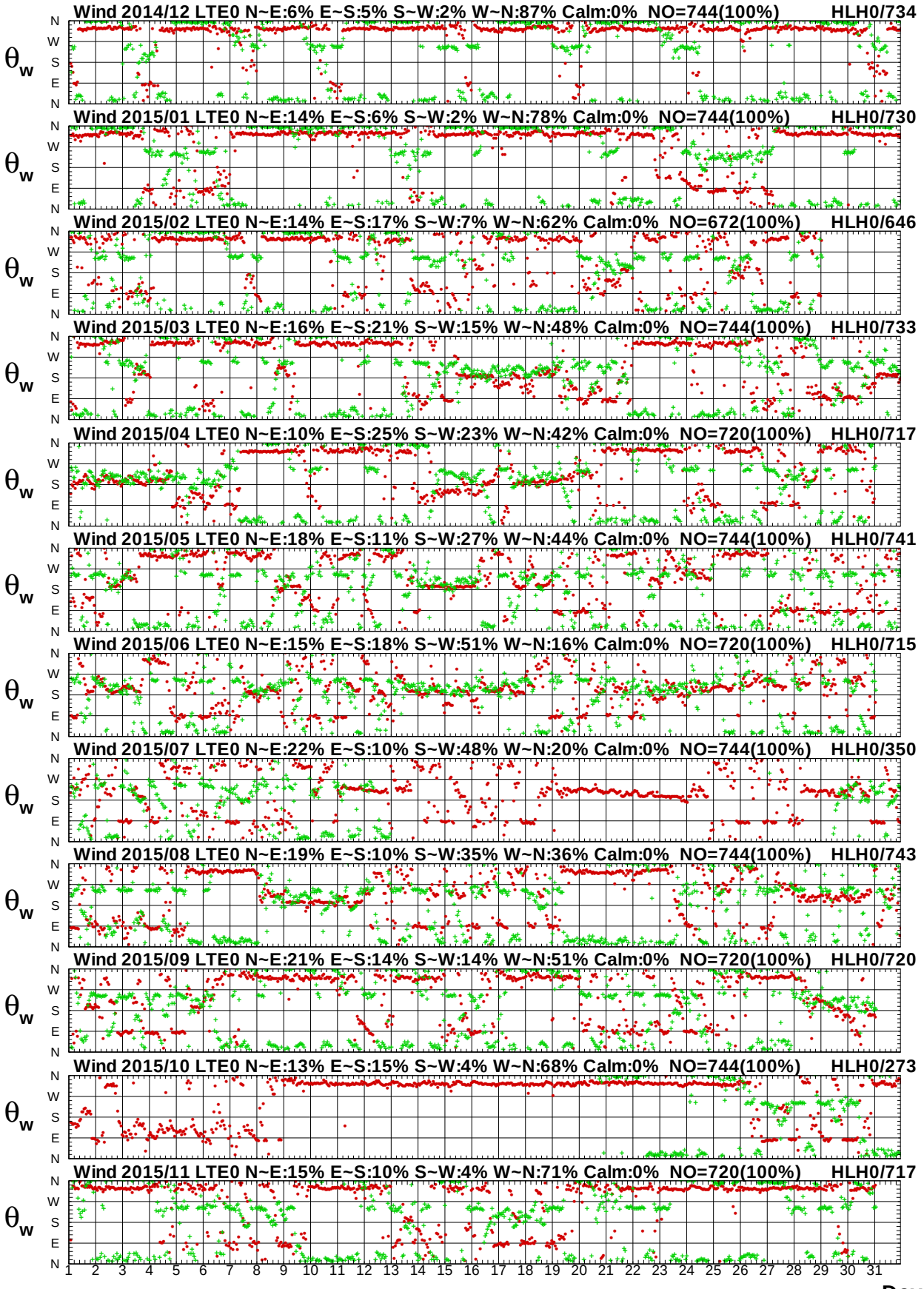

圖5.14b　2015年每月臺東海域 E 站與花蓮海域 H 站風向圖

Wind Speed in Ta-Tung Seas of LTE0 at 2015

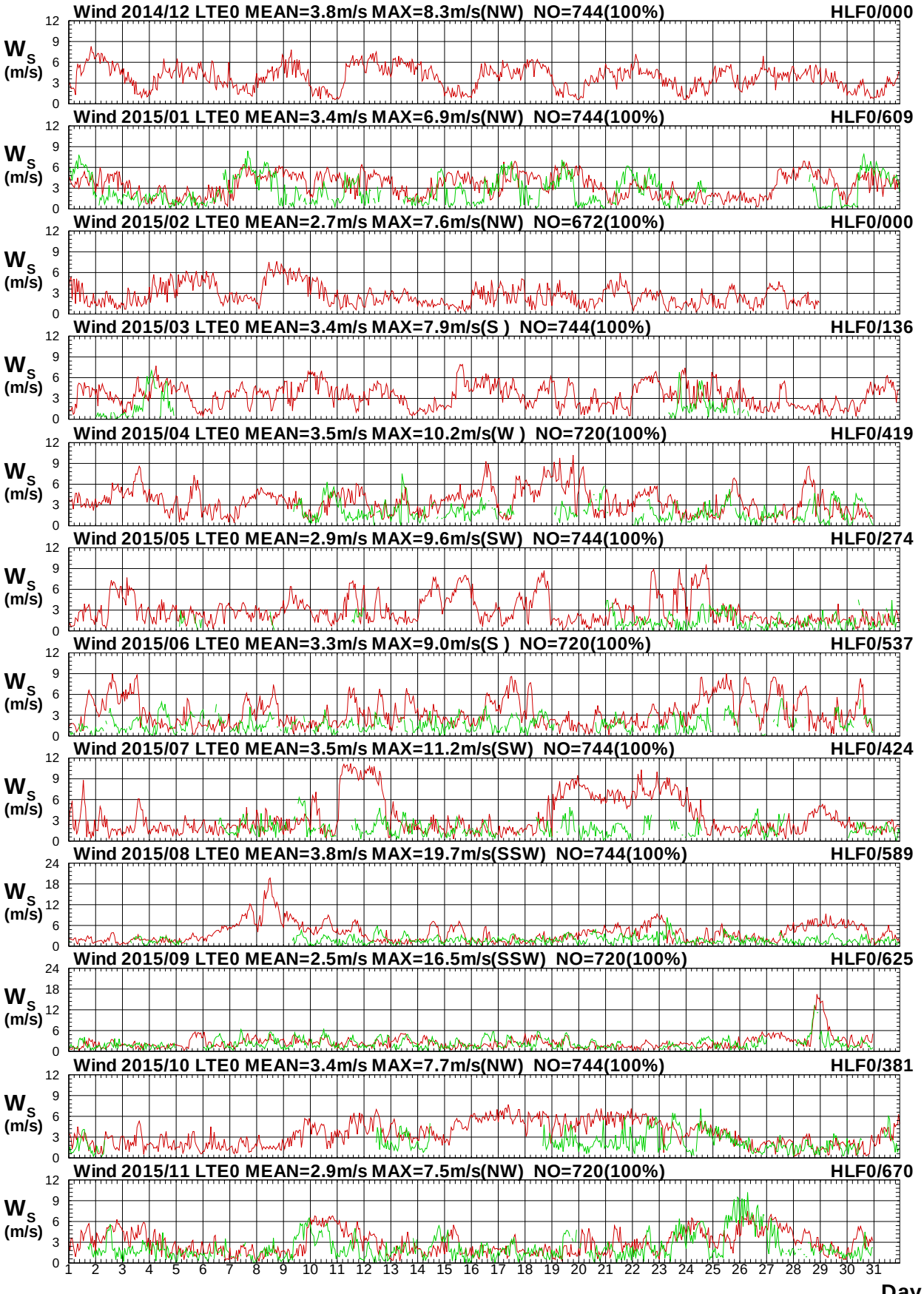

圖5.15a　2015年每月臺東海域 E 站與花蓮海域 F 站風速圖

Wind Direction in Ta-Tung Seas of LTE0 at 2015

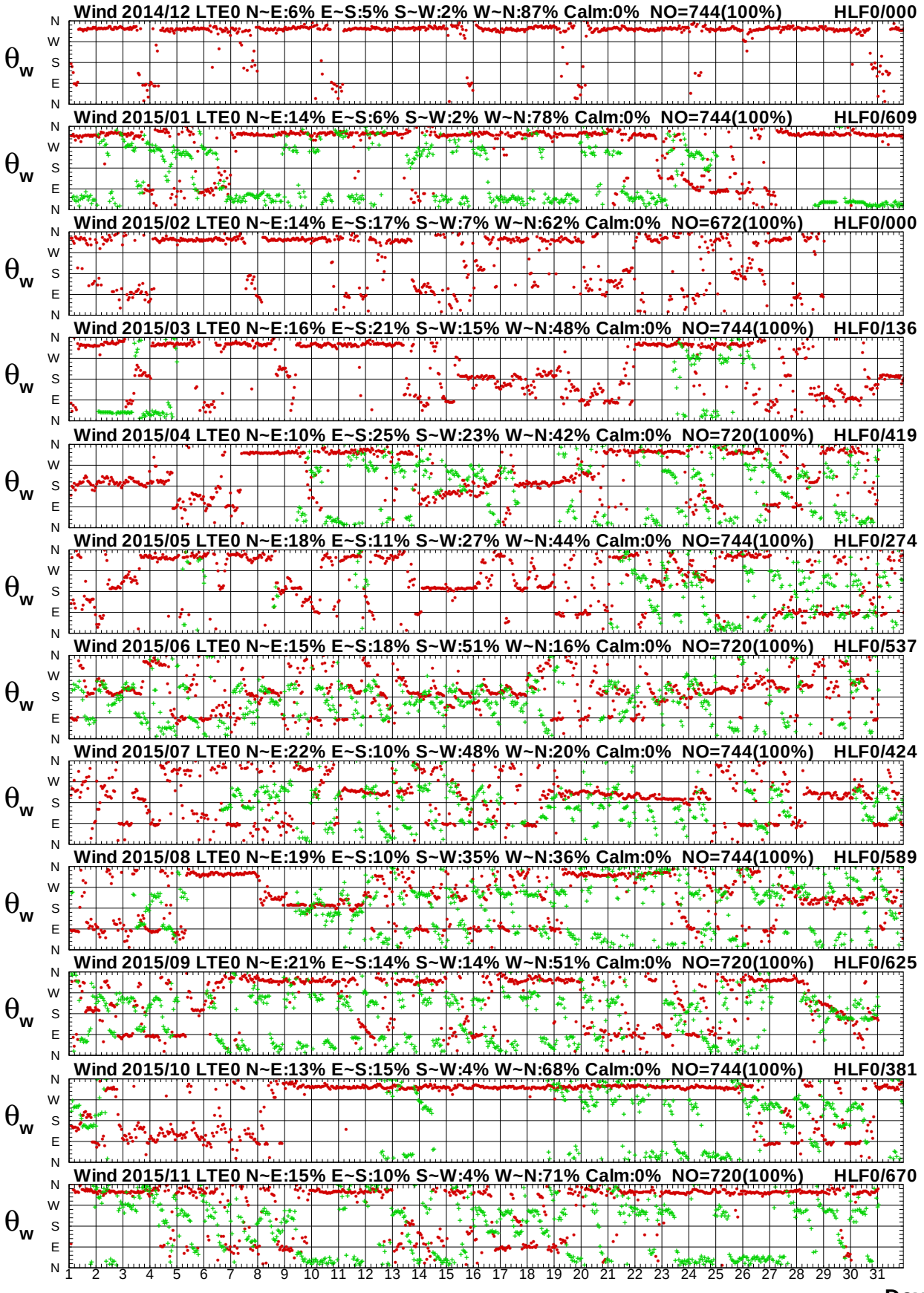

圖5.15b　2015年每月臺東海域 E 站與花蓮海域 F 站風向圖

Wind Speed in Ta-Tung Seas of LTE0 at 2015

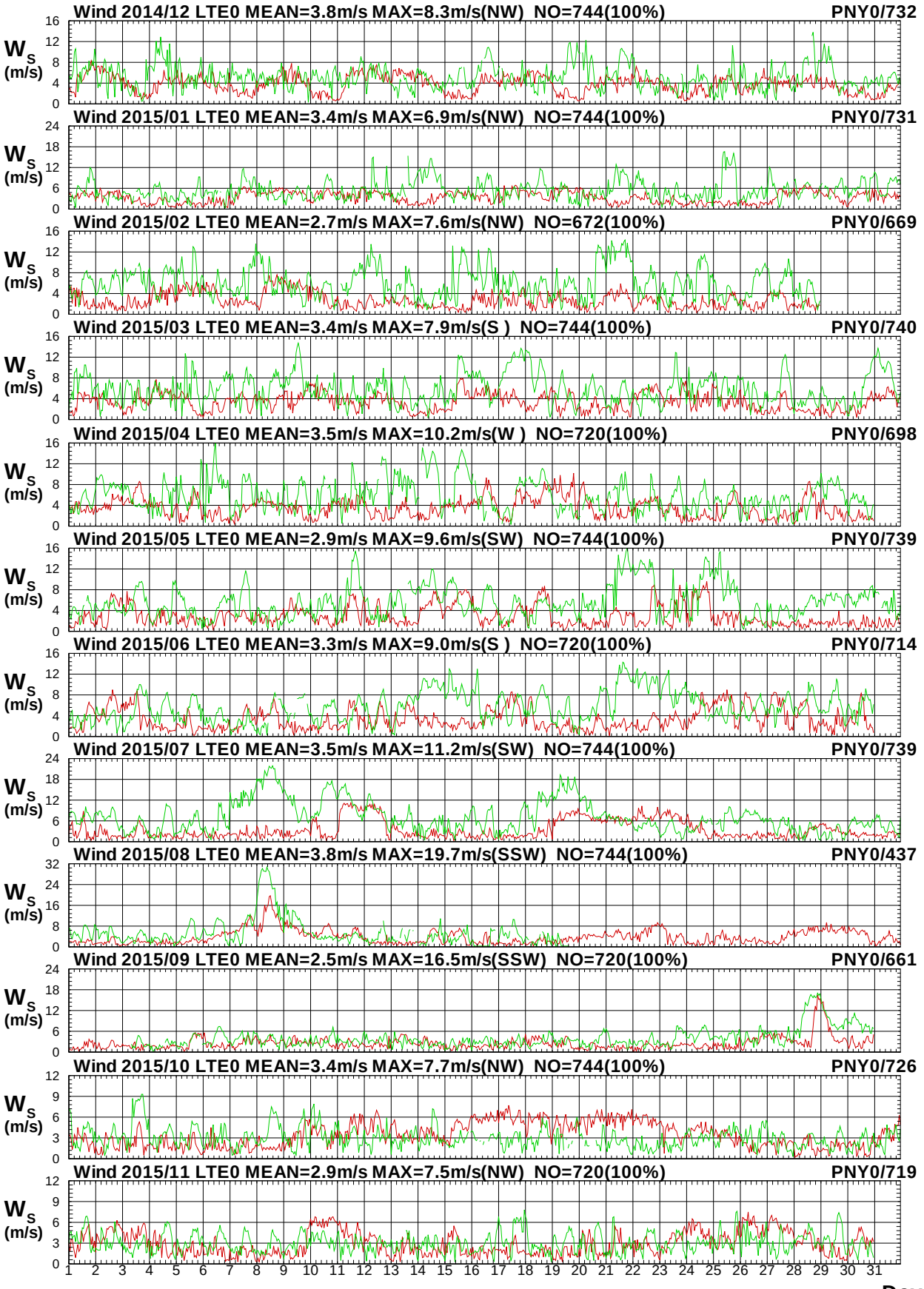

圖5.16a　2015年每月臺東海域 E 站與屏東海域 Y 站風速圖

W14CLTE0.1HA W14CPNY0.1H0 W151LTE0.1HA W151PNY0.1H0 W152LTE0.1HA W152PNY0.1H0
W153LTE0.1HA W153PNY0.1H0 W154LTE0.1HA W154PNY0.1H0 W155LTE0.1HA W155PNY0.1H0

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Wind Direction in Ta-Tung Seas of LTE0 at 2015

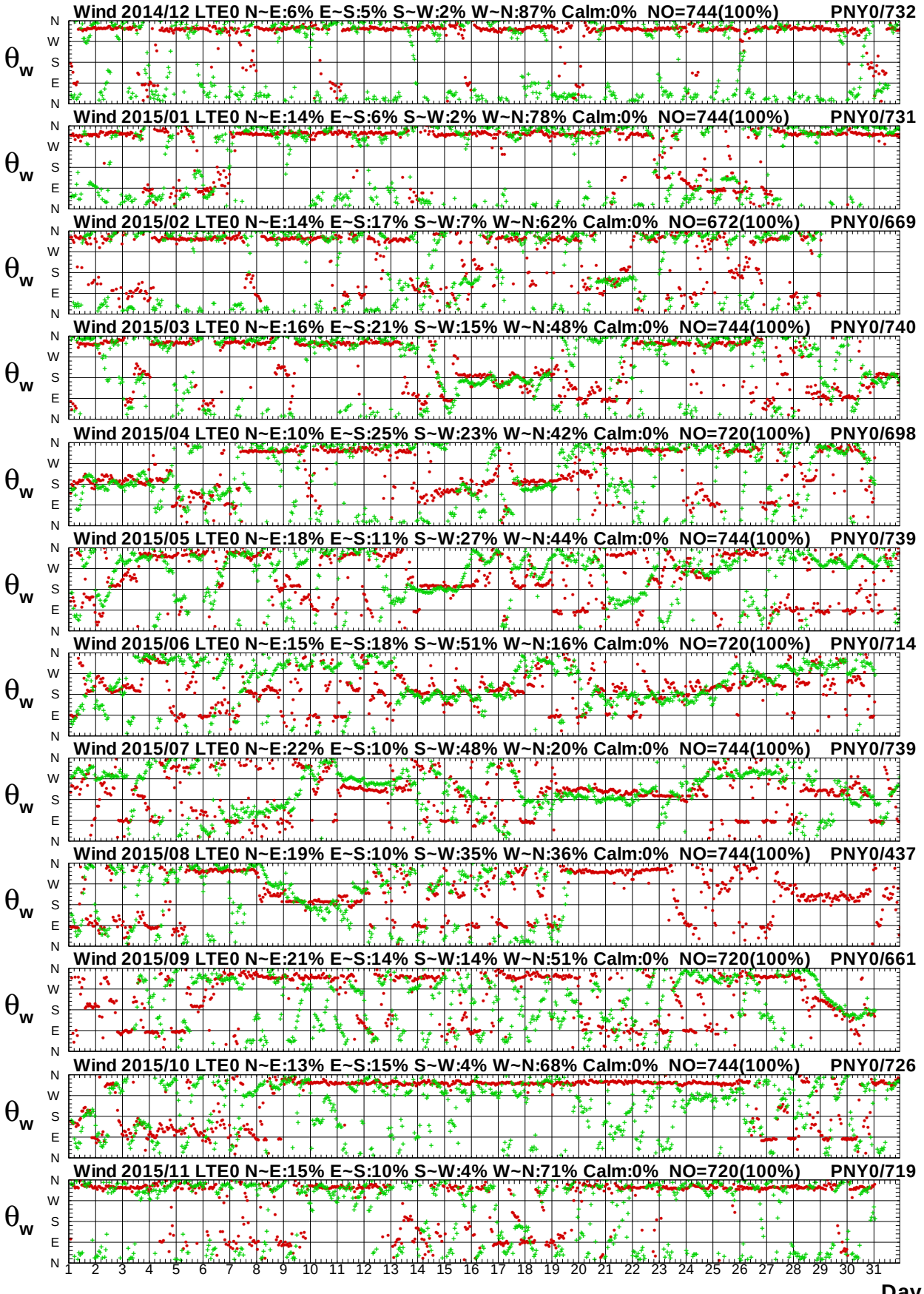

圖5.16b　2015年每月臺東海域 E 站與屏東海域 Y 站風向圖

Wind Speed in Ta-Tung Seas of LTE0 at 2015

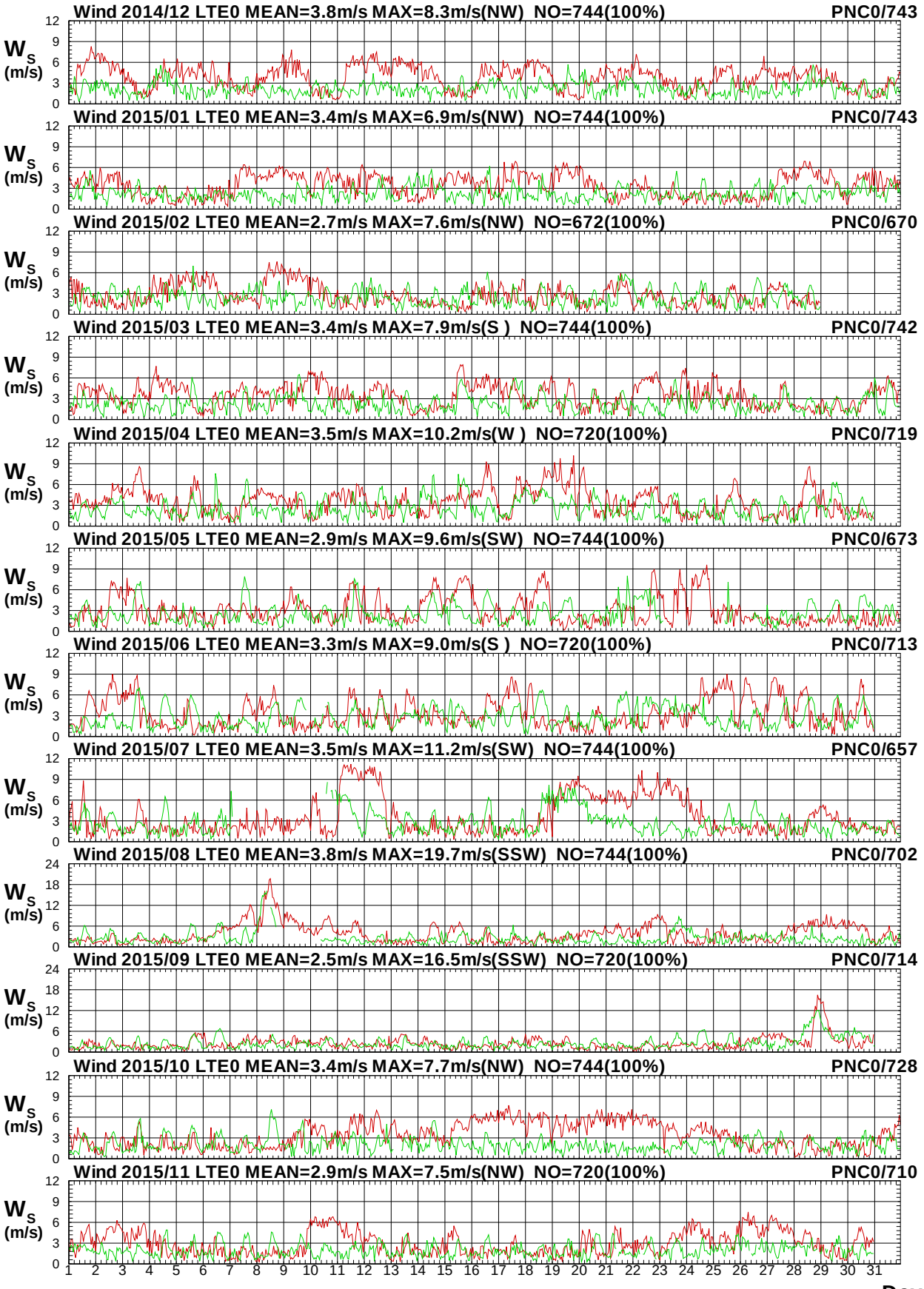

圖5.17a　2015年每月臺東海域 E 站與屏東海域 C 站風速圖

W14CLTE0.1HA W14CPNC0.1H0 W151LTE0.1HA W151PNC0.1H0 W152LTE0.1HA W152PNC0.1H0
W153LTE0.1HA W153PNC0.1H0 W154LTE0.1HA W154PNC0.1H0 W155LTE0.1HA W155PNC0.1H0

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Wind Direction in Ta-Tung Seas of LTE0 at 2015

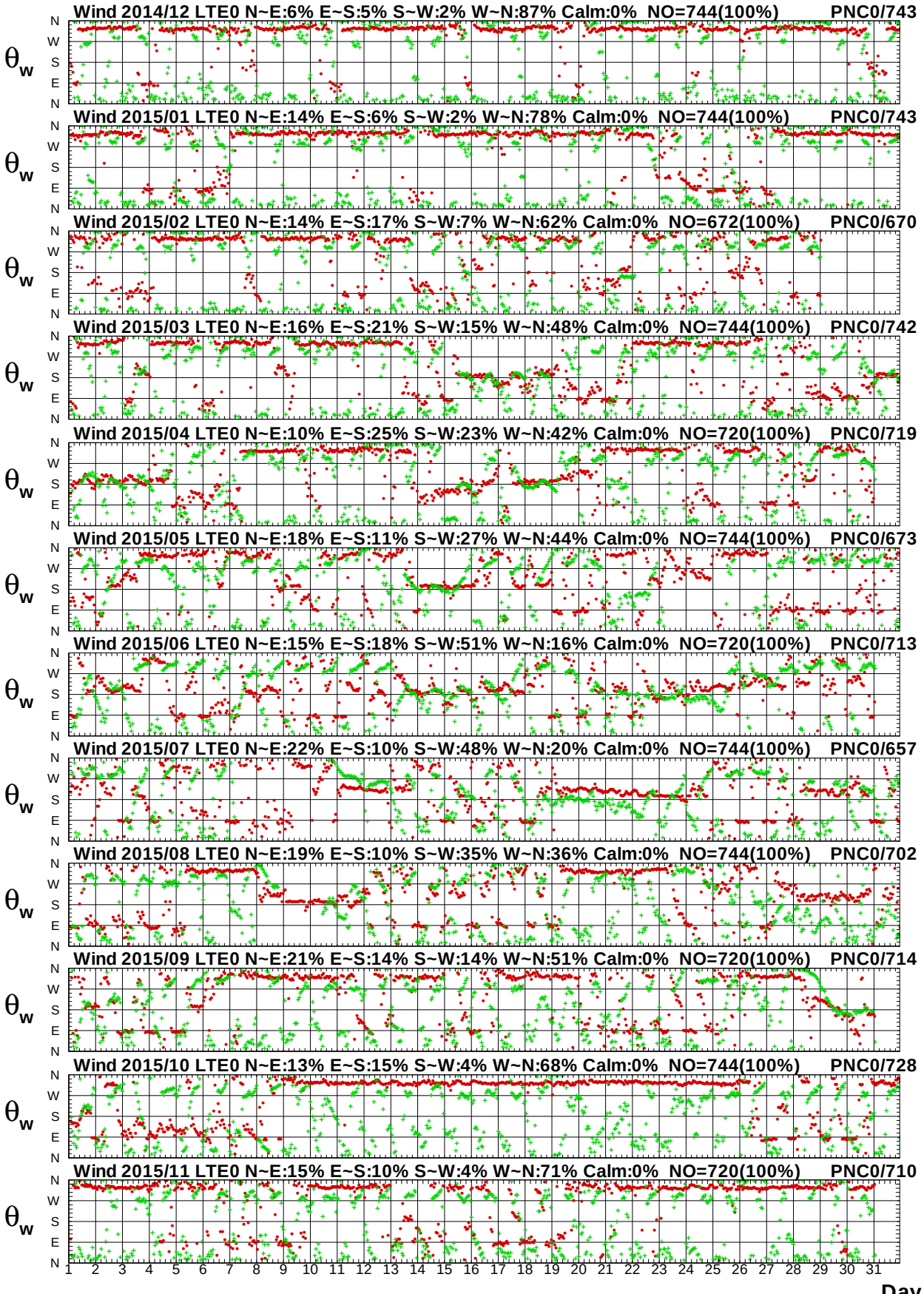

圖5.17b　2015年每月臺東海域 E 站與屏東海域 C 站風向圖

Wind Speed in Ta-Tung Seas of LTE0 at 2015

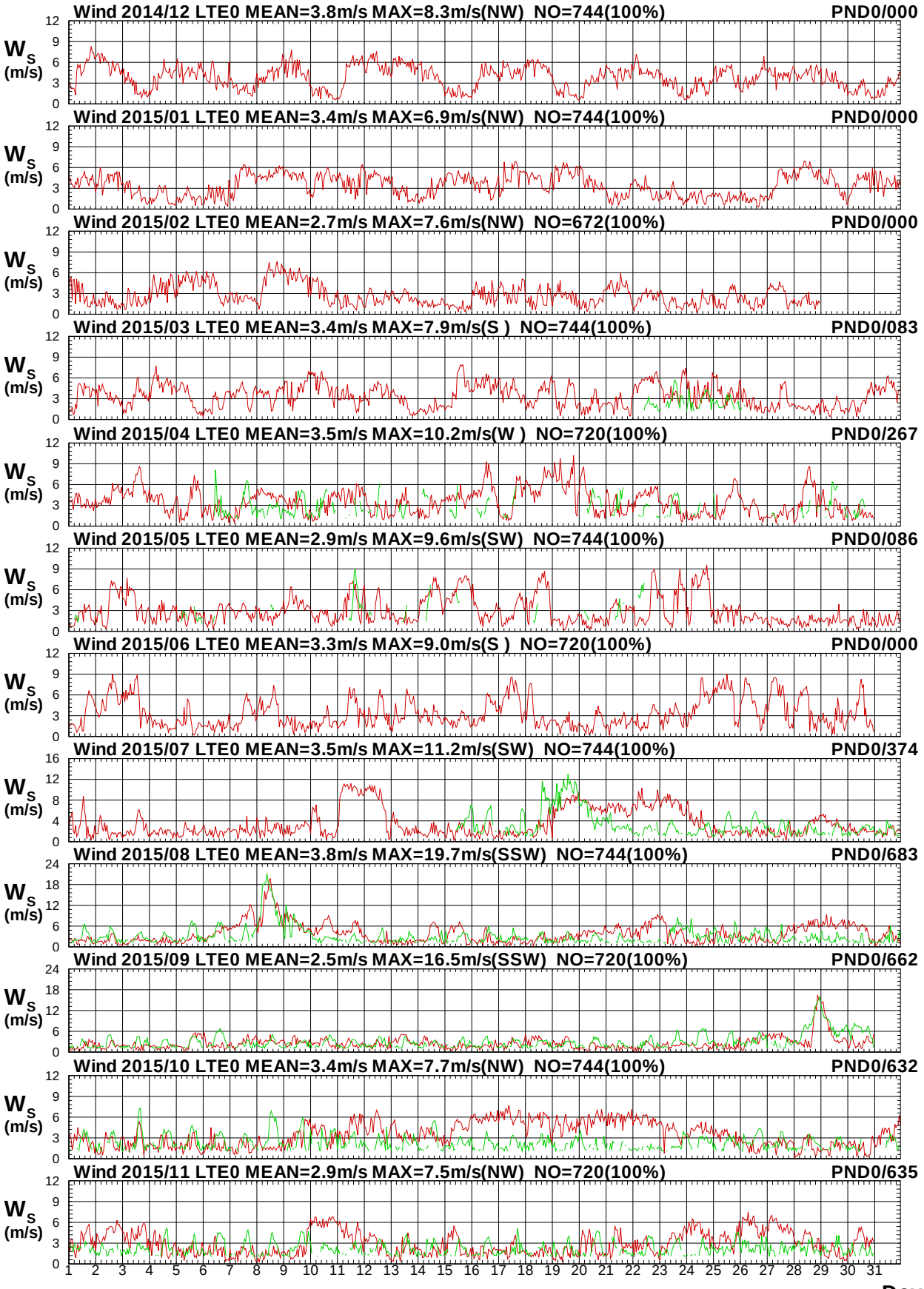

圖5.18a　2015年每月臺東海域 E 站與屏東海域 D 站風速圖

W14CLTE0.1HA W14CPND0.1H0 W151LTE0.1HA W151PND0.1H0 W152LTE0.1HA W152PND0.1H0
W153LTE0.1HA W153PND0.1H0 W154LTE0.1HA W154PND0.1H0 W155LTE0.1HA W155PND0.1H0

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Wind Direction in Ta-Tung Seas of LTE0 at 2015

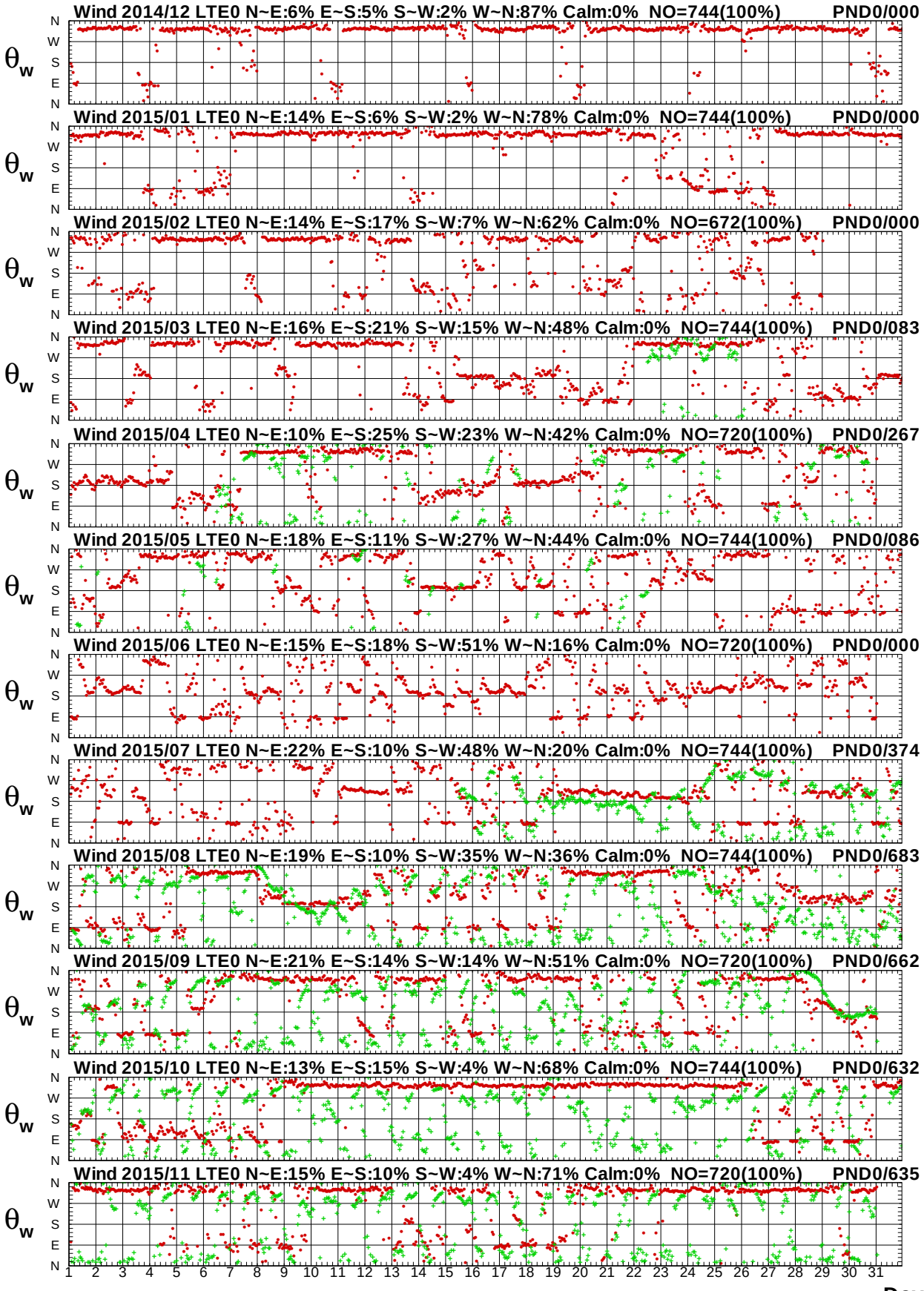

圖5.18b　2015年每月臺東海域 E 站與屏東海域 D 站風向圖

W14CLTE0.1HA W14CPND0.1H0 W151LTE0.1HA W151PND0.1H0 W152LTE0.1HA W152PND0.1H0
W153LTE0.1HA W153PND0.1H0 W154LTE0.1HA W154PND0.1H0 W155LTE0.1HA W155PND0.1H0

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Wind Speed in Ta-Tung Seas of LTE0 at 2015

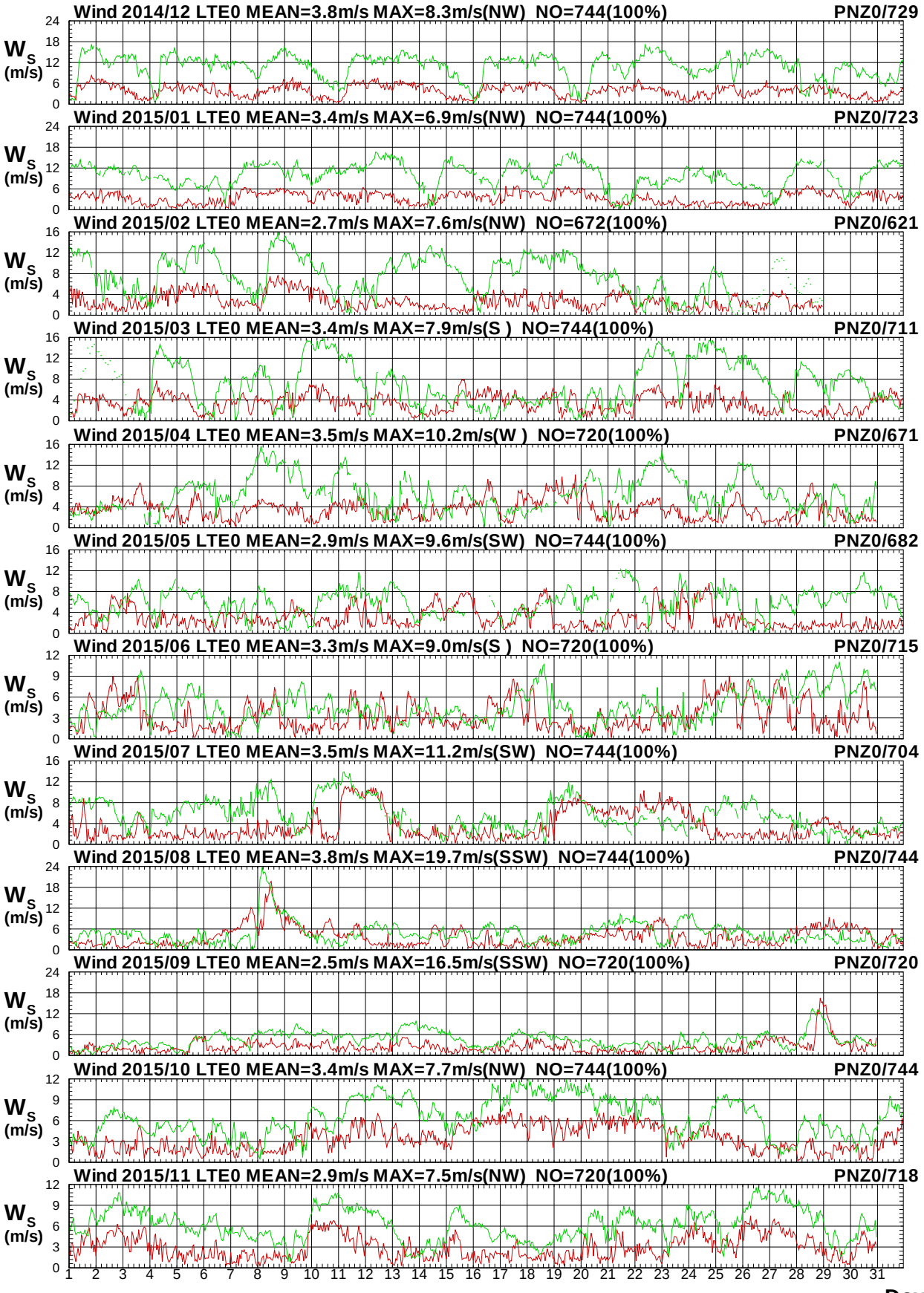

圖5.19a　2015年每月臺東海域 E 站與屏東海域 Z 站風速圖

W14CLTE0.1HA W14CPNZ0.1H0 W151LTE0.1HA W151PNZ0.1H0 W152LTE0.1HA W152PNZ0.1H0
W153LTE0.1HA W153PNZ0.1H0 W154LTE0.1HA W154PNZ0.1H0 W155LTE0.1HA W155PNZ0.1H0

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Wind Direction in Ta-Tung Seas of LTE0 at 2015

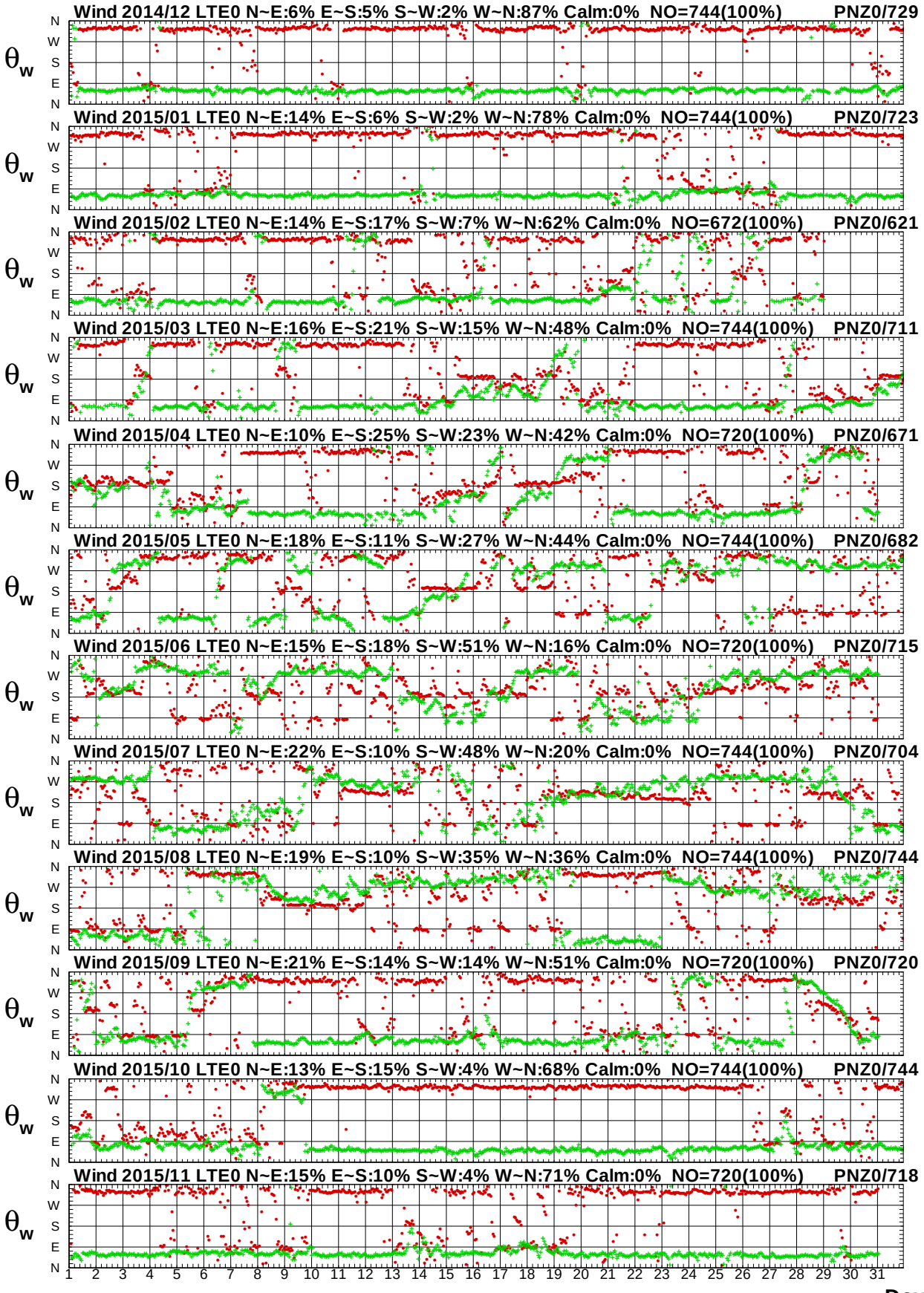

圖5.19b　2015年每月臺東海域 E 站與屏東海域 Z 站風向圖

Wind Speed in Ta-Tung Seas of LTE0 at 2015

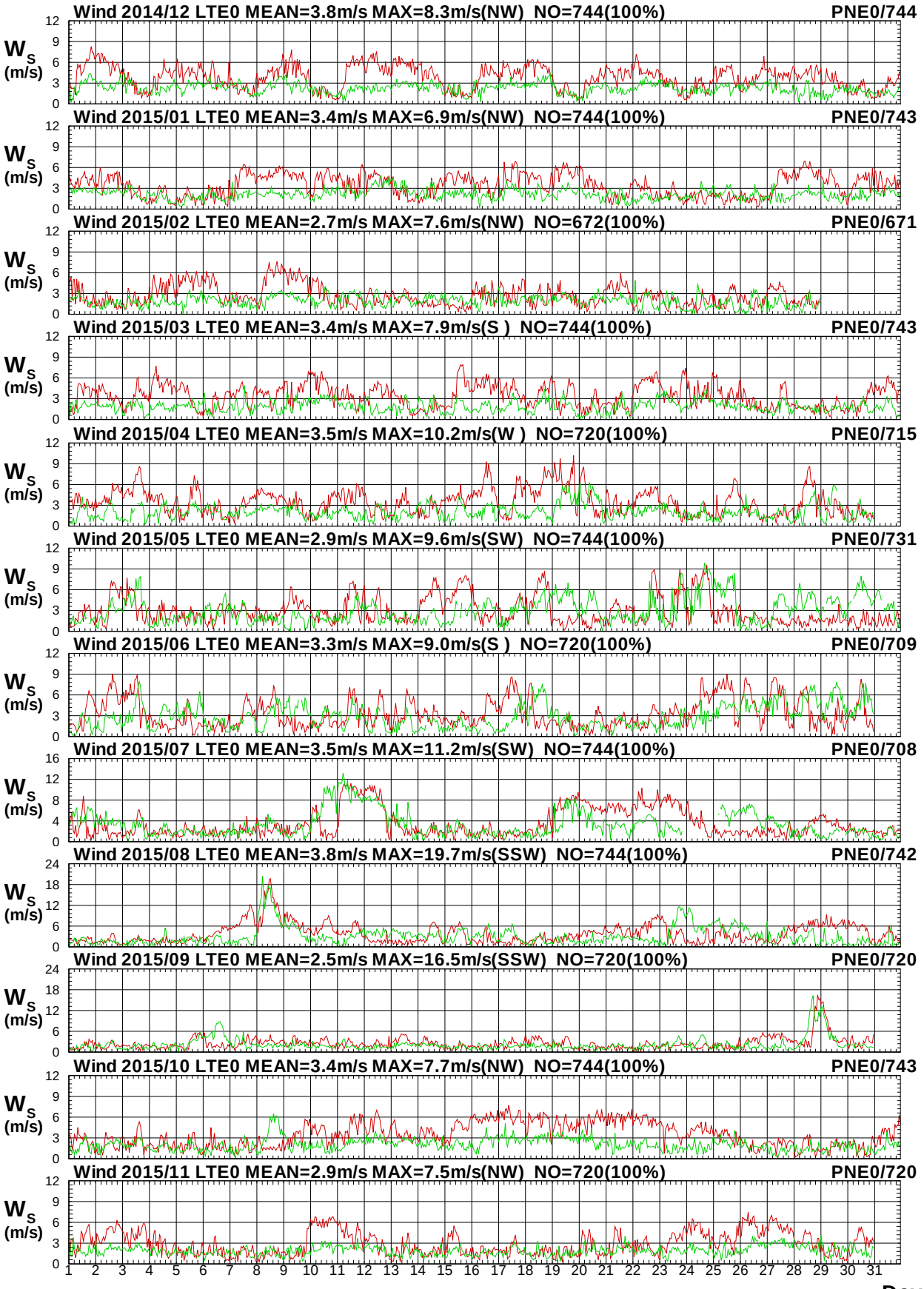

圖5.20a　2015年每月臺東海域 E 站與屏東海域 E 站風速圖

W14CLTE0.1HA W14CPNE0.1H0 W151LTE0.1HA W151PNE0.1H0 W152LTE0.1HA W152PNE0.1H0
W153LTE0.1HA W153PNE0.1H0 W154LTE0.1HA W154PNE0.1H0 W155LTE0.1HA W155PNE0.1H0

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Wind Direction in Ta-Tung Seas of LTE0 at 2015

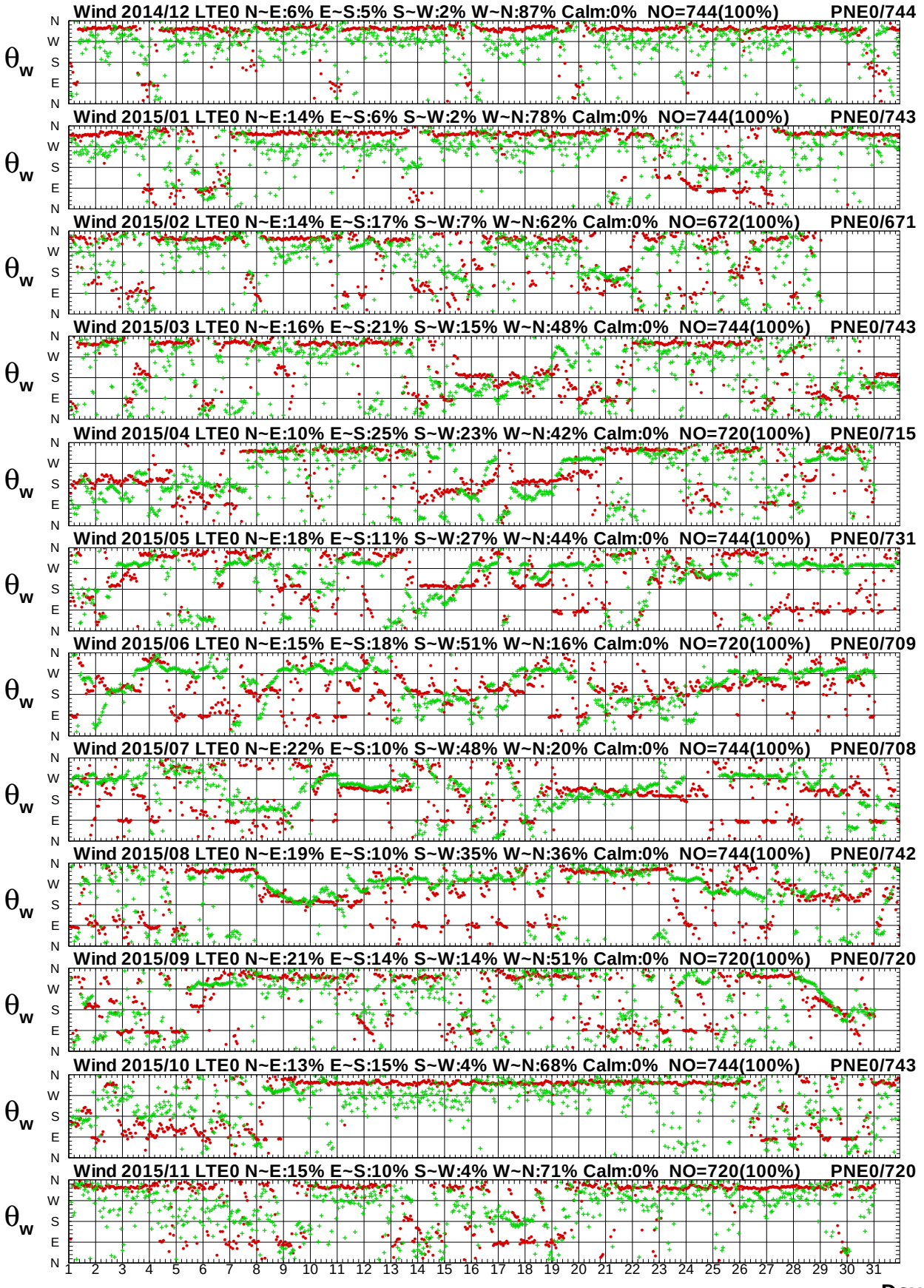

圖5.20b　2015年每月臺東海域 E 站與屏東海域 E 站風向圖

W14CLTE0.1HA W14CPNE0.1H0 W151LTE0.1HA W151PNE0.1H0 W152LTE0.1HA W152PNE0.1H0
W153LTE0.1HA W153PNE0.1H0 W154LTE0.1HA W154PNE0.1H0 W155LTE0.1HA W155PNE0.1H0

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Wind Speed in Ta-Tung Seas of LTE0 at 2015

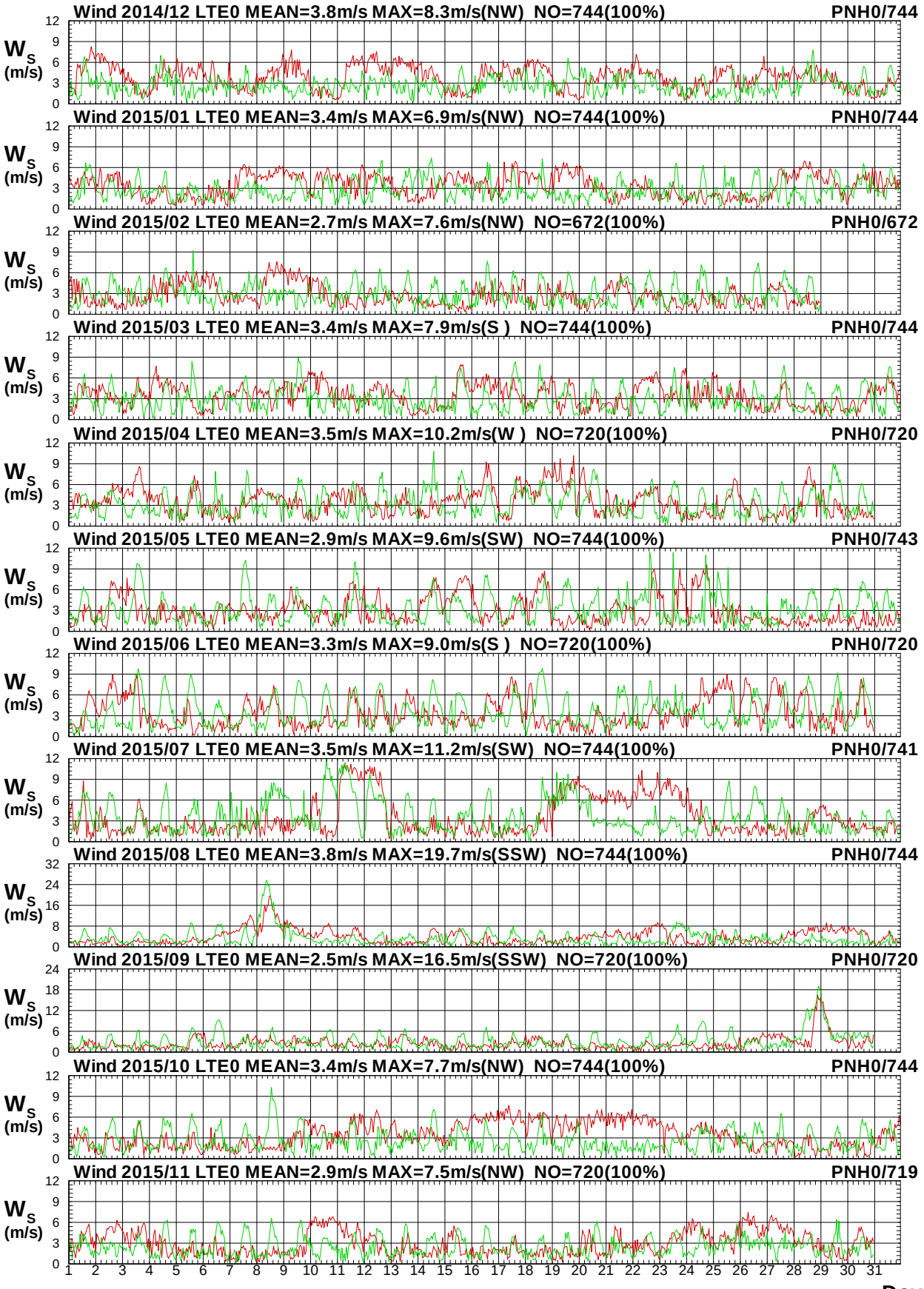

圖5.21a　2015年每月臺東海域 E 站與屏東海域 H 站風速圖

W14CLTE0.1HA W14CPNH0.1H0 W151LTE0.1HA W151PNH0.1H0 W152LTE0.1HA W152PNH0.1H0
W153LTE0.1HA W153PNH0.1H0 W154LTE0.1HA W154PNH0.1H0 W155LTE0.1HA W155PNH0.1H0

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Wind Direction in Ta-Tung Seas of LTE0 at 2015

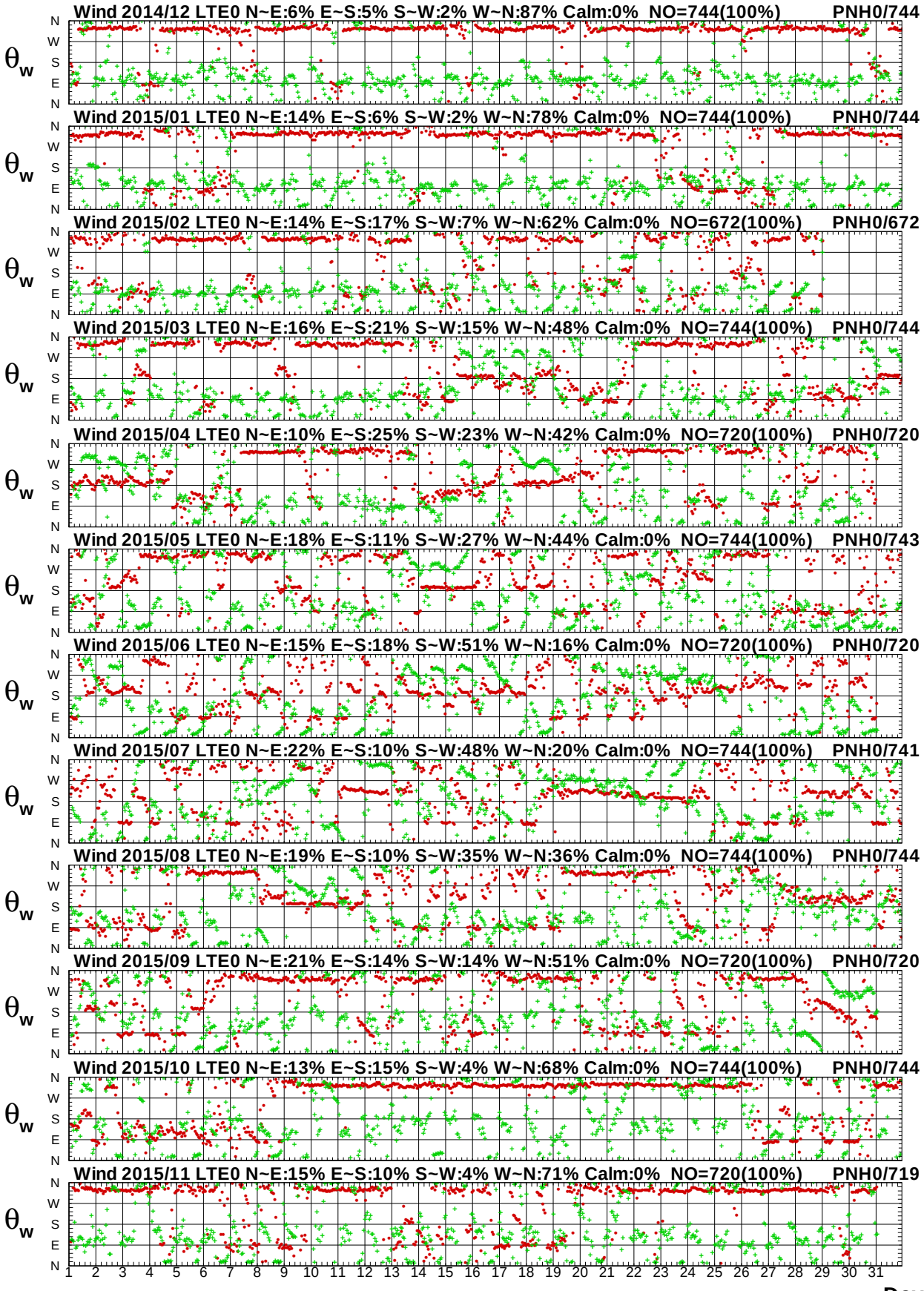

圖5.21b　2015年每月臺東海域 E 站與屏東海域 H 站風向圖

Wind Speed in Ta-Tung Seas of LTE0 at 2015

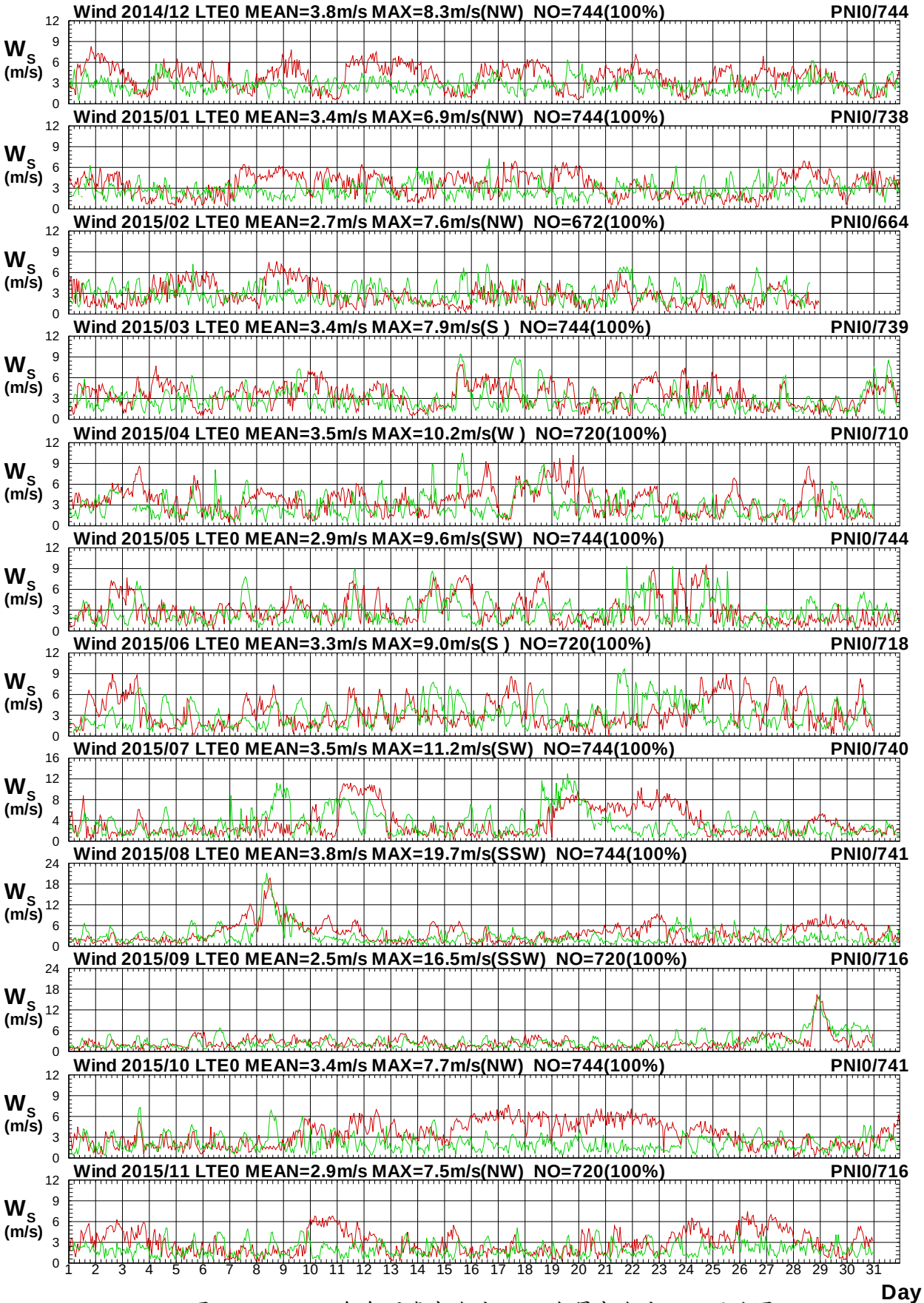

圖 5.22a　2015年每月臺東海域 E 站與屏東海域 I 站風速圖

W14CLTE0.1HA W14CPNI0.1H0 W151LTE0.1HA W151PNI0.1H0 W152LTE0.1HA W152PNI0.1H0
W153LTE0.1HA W153PNI0.1H0 W154LTE0.1HA W154PNI0.1H0 W155LTE0.1HA W155PNI0.1H0

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Wind Direction in Ta-Tung Seas of LTE0 at 2015

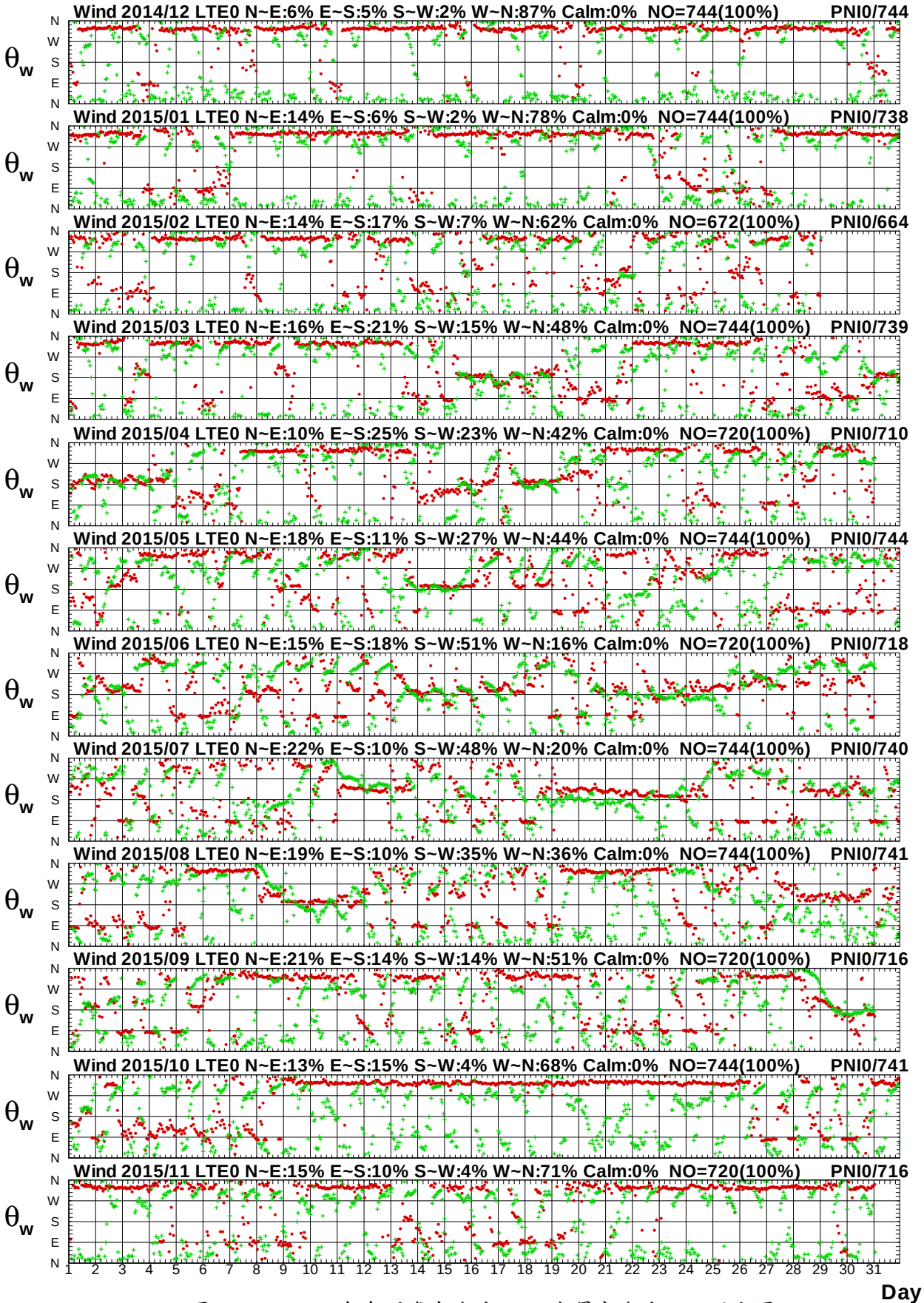

圖5.22b　2015年每月臺東海域 E 站與屏東海域 I 站風向圖

Wind Speed in Ta-Tung Seas of LTE0 at 2015

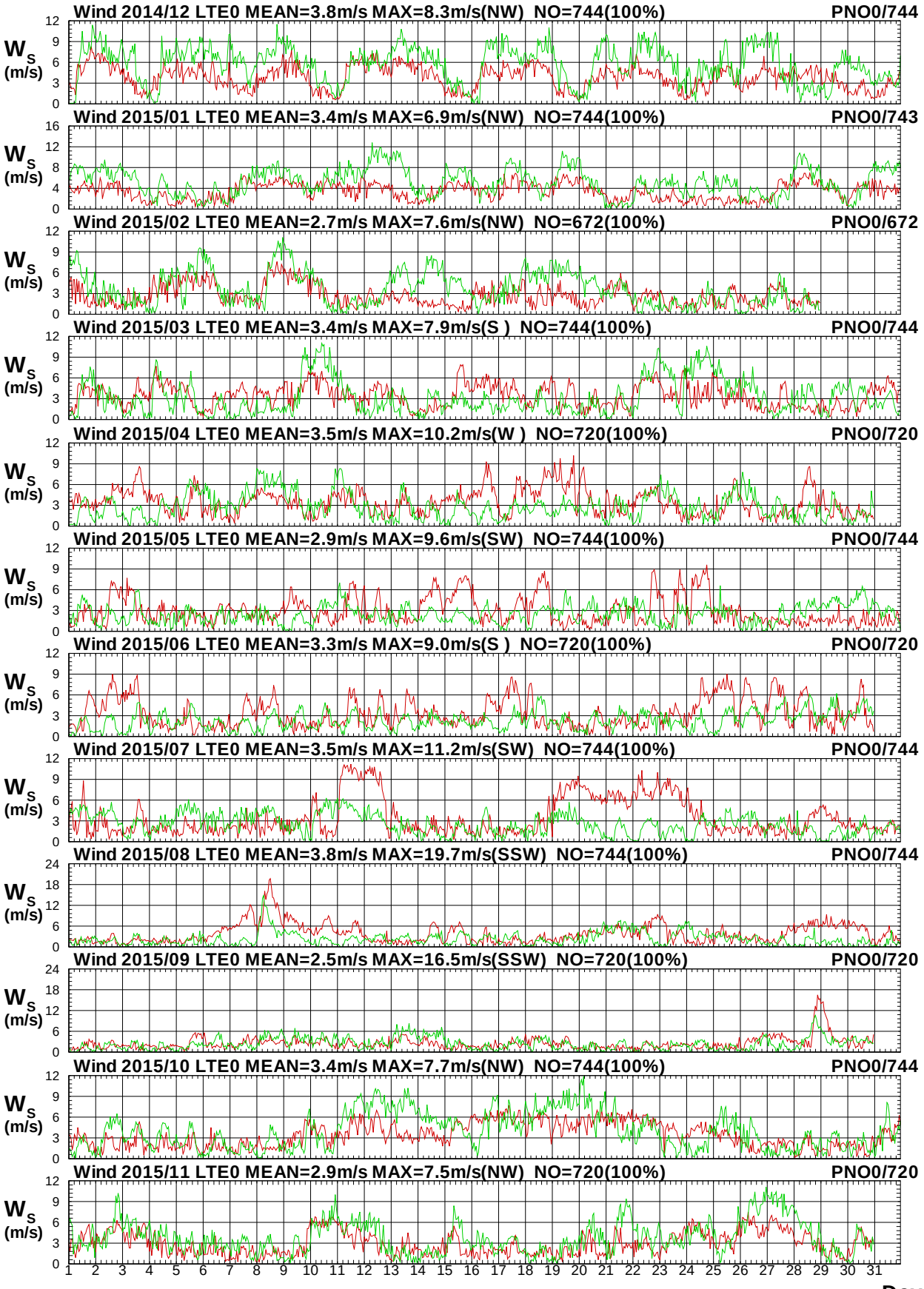

圖5.23a　2015年每月臺東海域 E 站與屏東海域 O 站風速圖

W14CLTE0.1HA W14CPNO0.1H0 W151LTE0.1HA W151PNO0.1H0 W152LTE0.1HA W152PNO0.1H0
W153LTE0.1HA W153PNO0.1H0 W154LTE0.1HA W154PNO0.1H0 W155LTE0.1HA W155PNO0.1H0

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Wind Direction in Ta-Tung Seas of LTE0 at 2015

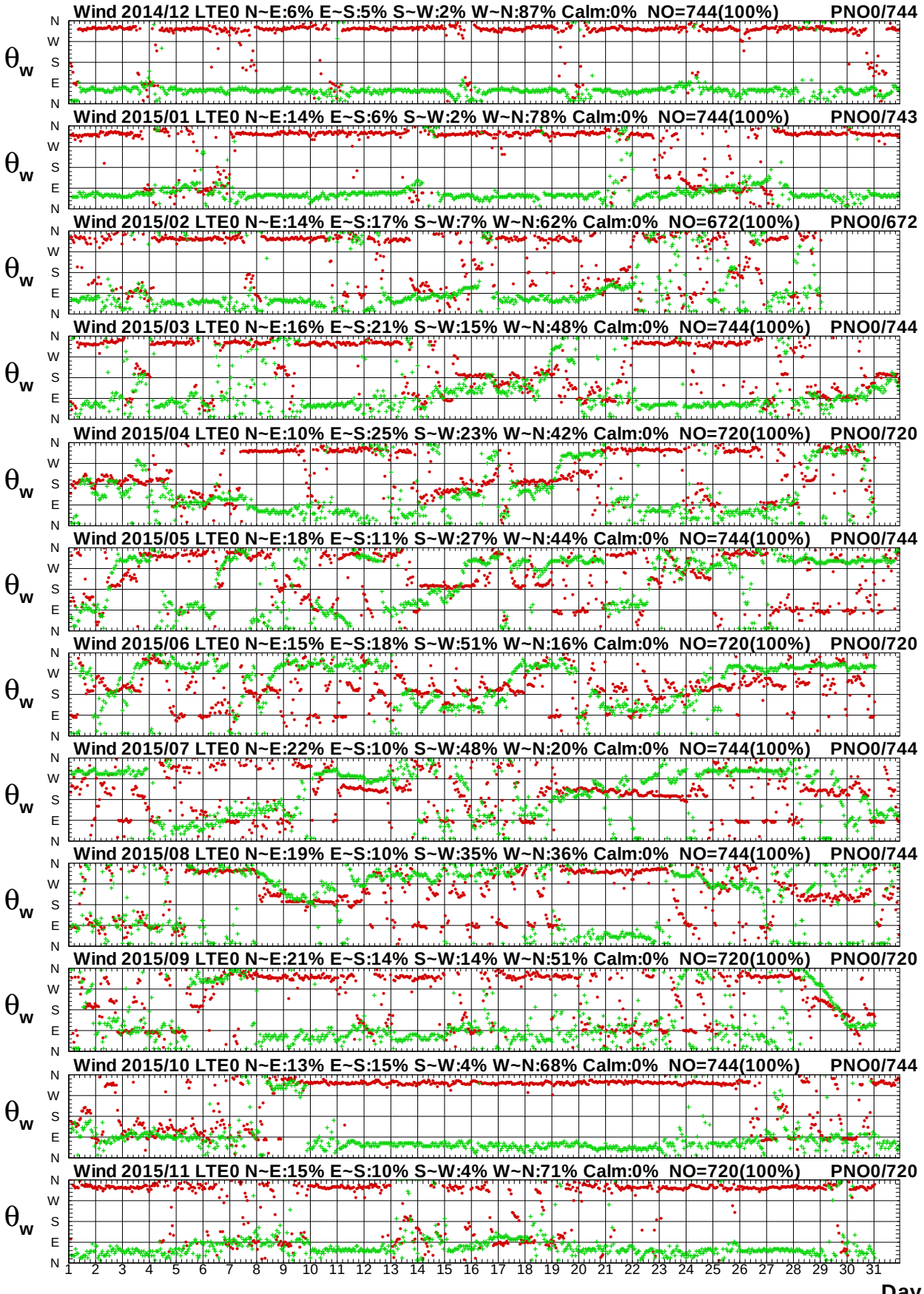

圖5.23b　2015年每月臺東海域 E 站與屏東海域 O 站風向圖

W14CLTE0.1HA W14CPNO0.1H0 W151LTE0.1HA W151PNO0.1H0 W152LTE0.1HA W152PNO0.1H0
W153LTE0.1HA W153PNO0.1H0 W154LTE0.1HA W154PNO0.1H0 W155LTE0.1HA W155PNO0.1H0

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第六章　2015 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)** 屬中央氣象局**(CWB)**所有，測站之位置如圖 6。大鵬灣氣象站風力觀**測站 I**(**測站 D**)也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** 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 6。

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。

本風力年報以取經檢核或修補後之 **Y 站**資料作為**主要觀測站**，2015 年主要觀測站修補前(後)每月觀測之風資料記錄期間統計表，如表 6.1a，2015 年風力**次要觀測站**資料(未補餘)記錄統計表，如表 6.1b，**主要觀測站修補前後**每月風力歷線比較圖，如圖 6.1，**主要觀測站**與**次要觀測站**(或**其他觀測站**)每月風力歷線比較圖，如圖 6.2 以後。

表 6 屏東海域觀測風力資料蒐集概況表(統計時間至 2015 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	2003/11-2015/11(觀測中)	中央氣象局	小琉球浮標站
Z	21°54'01"N	120°49'21"E	2000/10-2015/11(觀測中)	水利署	鵝鑾鼻浮標站
E	21°59'9"N	120°42'42"E	2006/12-2015/11(觀測中)	水利署	蟳廣嘴氣象站
H	22°24'53"N	120°31'7"E	2013/09-2015/11(觀測中)	水利署	林邊氣象站
I	22°26'55"N	120°27'9"E	2002/11-2015/11(觀測中)	中央氣象局	大鵬灣氣象站
O	22°00'20"N	120°44'17"E	2013/11-2015/11(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
D	22°41'01"N	120°42'30"E	2015/03-2015/11(觀測中)	中央氣象局	大鵬灣氣象站
C			2014/11-2015/11(觀測中)	觀光局	大鵬灣氣象站

屏東海域

圖 6 屏東海域風力觀測站位置示意圖

表6.1a 2015年每月屏東海域修補前各測站觀測風力資料紀錄統計表

年/月 港區	屏東海域	屏東海域	屏東海域	屏東海域	屏東海域	屏東海域	屏東海域	屏東海域	屏東海域	屏東海域	屏東海域	屏東海域
測站	E	Y	Z	H	I	O	U	C	D	P	J	
2014/12月	744 (100%)	732 (98.4%)	729 (98.0%)	744 (100%)	744 (100%)	744 (100%)	*	743 (99.9%)	*	*	*	*
2015/ 1月	743 (99.9%)	731 (98.3%)	723 (97.2%)	744 (100%)	738 (99.2%)	743 (99.9%)	*	743 (99.9%)	*	*	*	*
2015/ 2月	671 (99.9%)	669 (99.6%)	621 (92.4%)	672 (100%)	664 (98.8%)	672 (100%)	*	670 (99.7%)	*	*	*	*
2015/ 3月	743 (99.9%)	740 (99.5%)	711 (95.6%)	744 (100%)	739 (99.3%)	744 (100%)	*	742 (99.7%)	83 (11.2%)	*	*	*
2015/ 4月	715 (99.3%)	698 (96.9%)	671 (93.2%)	720 (100%)	710 (98.6%)	720 (100%)	*	719 (99.9%)	267 (37.1%)	*	*	*
2015/ 5月	731 (98.3%)	739 (99.3%)	682 (91.7%)	743 (99.9%)	744 (100%)	744 (100%)	*	673 (90.5%)	86 (11.6%)	*	*	*
2015/ 6月	709 (98.5%)	714 (99.2%)	715 (99.3%)	720 (100%)	718 (99.7%)	720 (100%)	*	713 (99.0%)	*	*	*	*
2015/ 7月	708 (95.2%)	739 (99.3%)	704 (94.6%)	741 (99.6%)	740 (99.5%)	744 (100%)	*	657 (88.3%)	374 (50.3%)	*	*	*
2015/ 8月	742 (99.7%)	437 (58.7%)	744 (100%)	744 (100%)	741 (99.6%)	744 (100%)	*	702 (94.4%)	683 (91.8%)	*	*	*
2015/ 9月	720 (100%)	661 (91.8%)	720 (100%)	720 (100%)	716 (99.4%)	720 (100%)	*	714 (99.2%)	662 (91.9%)	*	*	*
2015/10月	743 (99.9%)	726 (97.6%)	744 (100%)	744 (100%)	741 (99.6%)	744 (100%)	*	728 (97.8%)	632 (84.9%)	*	*	*
2015/11月	720 (100%)	719 (99.9%)	718 (99.7%)	719 (99.9%)	716 (99.4%)	720 (100%)	*	710 (98.6%)	635 (88.2%)	*	*	*
2015/冬季	2158 (99.9%)	2132 (98.7%)	2073 (96.0%)	2160 (100%)	2146 (99.4%)	2159 (100.0%)	*	*	*	*	*	*
2015/春季	2189 (99.1%)	2177 (98.6%)	2064 (93.5%)	2207 (100.0%)	2193 (99.3%)	2208 (100%)	*	*	*	*	*	*
2015/夏季	2159 (97.8%)	1890 (85.6%)	2163 (98.0%)	2205 (99.9%)	2199 (99.6%)	2208 (100%)	*	*	*	*	*	*
2015/秋季	2183 (100.0%)	2106 (96.4%)	2182 (99.9%)	2183 (100.0%)	2173 (99.5%)	2184 (100%)	*	*	*	*	*	*
2015/整年	8689 (99.2%)	8305 (94.8%)	8482 (96.8%)	8755 (99.9%)	8711 (99.4%)	8759 (100.0%)	*	*	*	*	*	*
起始年月	2014/12	2014/12	2014/12	2014/12	2014/12	2014/12	*	*	*	*	*	*
結束年月	2015/11	2015/11	2015/11	2015/11	2015/11	2015/11	*	*	*	*	*	*

表6.1b 2015年每月屏東海域修補後各測站風力資料統計表

年/月 港區	屏東海域	屏東海域	屏東海域	屏東海域	屏東海域	屏東海域	屏東海域	屏東海域	屏東海域	屏東海域	屏東海域	屏東海域
測站	E	Y	Z	H	I	O	U	C	D	P	J	
2014/12月	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	*	*	*	*	*	*
2015/ 1月	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	*	*	*	*	*	*
2015/ 2月	672 (100%)	672 (100%)	672 (100%)	672 (100%)	672 (100%)	672 (100%)	*	*	*	*	*	*
2015/ 3月	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	*	*	*	*	*	*
2015/ 4月	720 (100%)	720 (100%)	720 (100%)	720 (100%)	720 (100%)	720 (100%)	*	*	*	*	*	*
2015/ 5月	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	*	*	*	*	*	*
2015/ 6月	720 (100%)	720 (100%)	720 (100%)	720 (100%)	720 (100%)	720 (100%)	*	*	*	*	*	*
2015/ 7月	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	*	*	*	*	*	*
2015/ 8月	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	*	*	*	*	*	*
2015/ 9月	720 (100%)	720 (100%)	720 (100%)	720 (100%)	720 (100%)	720 (100%)	*	*	*	*	*	*
2015/10月	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	*	*	*	*	*	*
2015/11月	720 (100%)	720 (100%)	720 (100%)	720 (100%)	720 (100%)	720 (100%)	*	*	*	*	*	*
2015/冬季	2160 (100%)	2160 (100%)	2160 (100%)	2160 (100%)	2160 (100%)	2160 (100%)	*	*	*	*	*	*
2015/春季	2208 (100%)	2208 (100%)	2208 (100%)	2208 (100%)	2208 (100%)	2208 (100%)	*	*	*	*	*	*
2015/夏季	2208 (100%)	2208 (100%)	2208 (100%)	2208 (100%)	2208 (100%)	2208 (100%)	*	*	*	*	*	*
2015/秋季	2184 (100%)	2184 (100%)	2184 (100%)	2184 (100%)	2184 (100%)	2184 (100%)	*	*	*	*	*	*
2015/整年	8760 (100%)	8760 (100%)	8760 (100%)	8760 (100%)	8760 (100%)	8760 (100%)	*	*	*	*	*	*
起始年月	2014/12	2014/12	2014/12	2014/12	2014/12	2014/12	*	*	*	*	*	*
結束年月	2015/11	2015/11	2015/11	2015/11	2015/11	2015/11	*	*	*	*	*	*

Wind Speed in Peng-Tung Seas of PNY0 at 2015

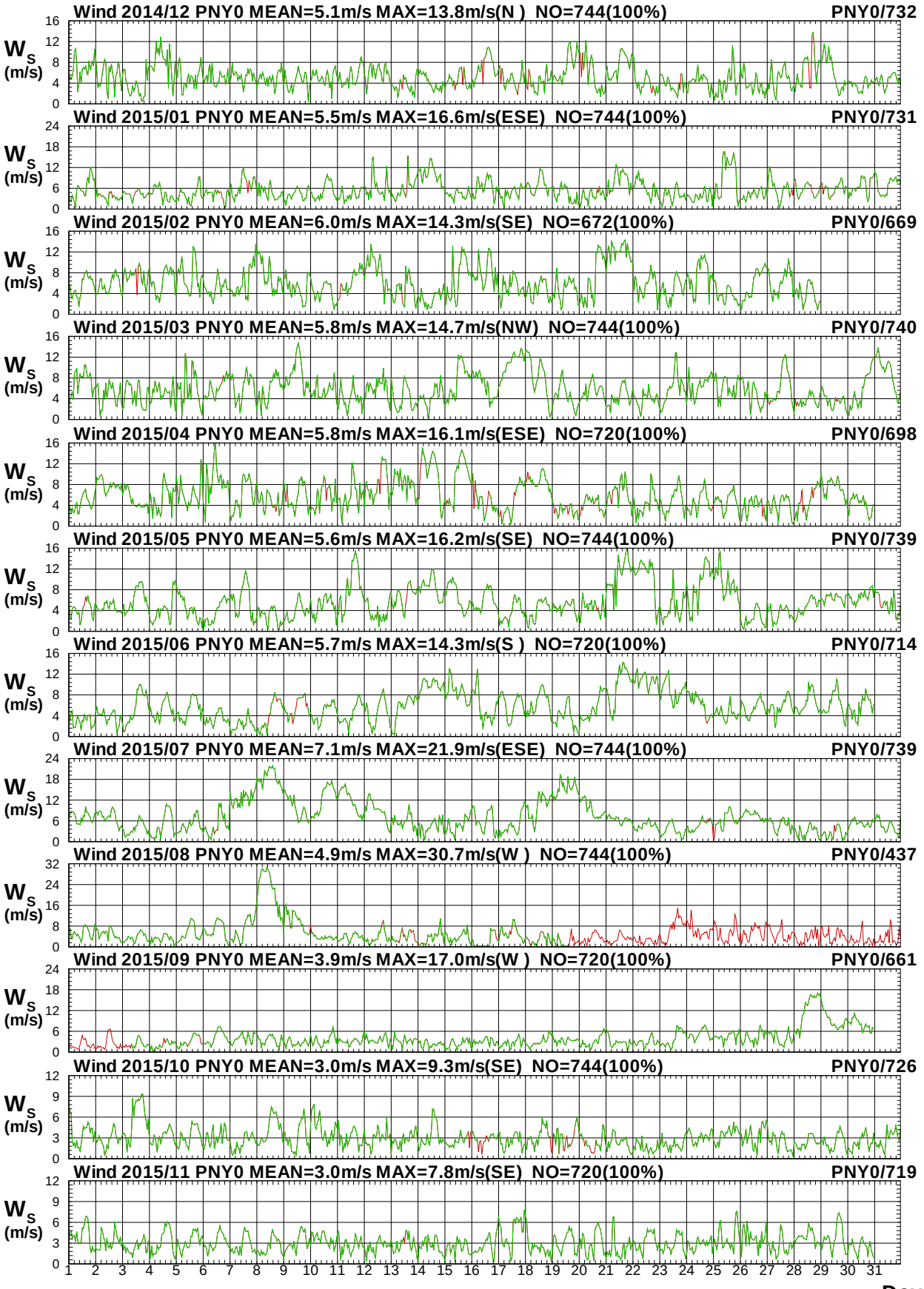

圖6.1a　2015年每月屏東海域 Y 站修補前後之風速比較圖

W14CPNY0.1HA W14CPNY0.1H0 W151PNY0.1HA W151PNY0.1H0 W152PNY0.1HA W152PNY0.1H0
W153PNY0.1HA W153PNY0.1H0 W154PNY0.1HA W154PNY0.1H0 W155PNY0.1HA W155PNY0.1H0

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Wind Direction in Peng-Tung Seas of PNY0 at 2015

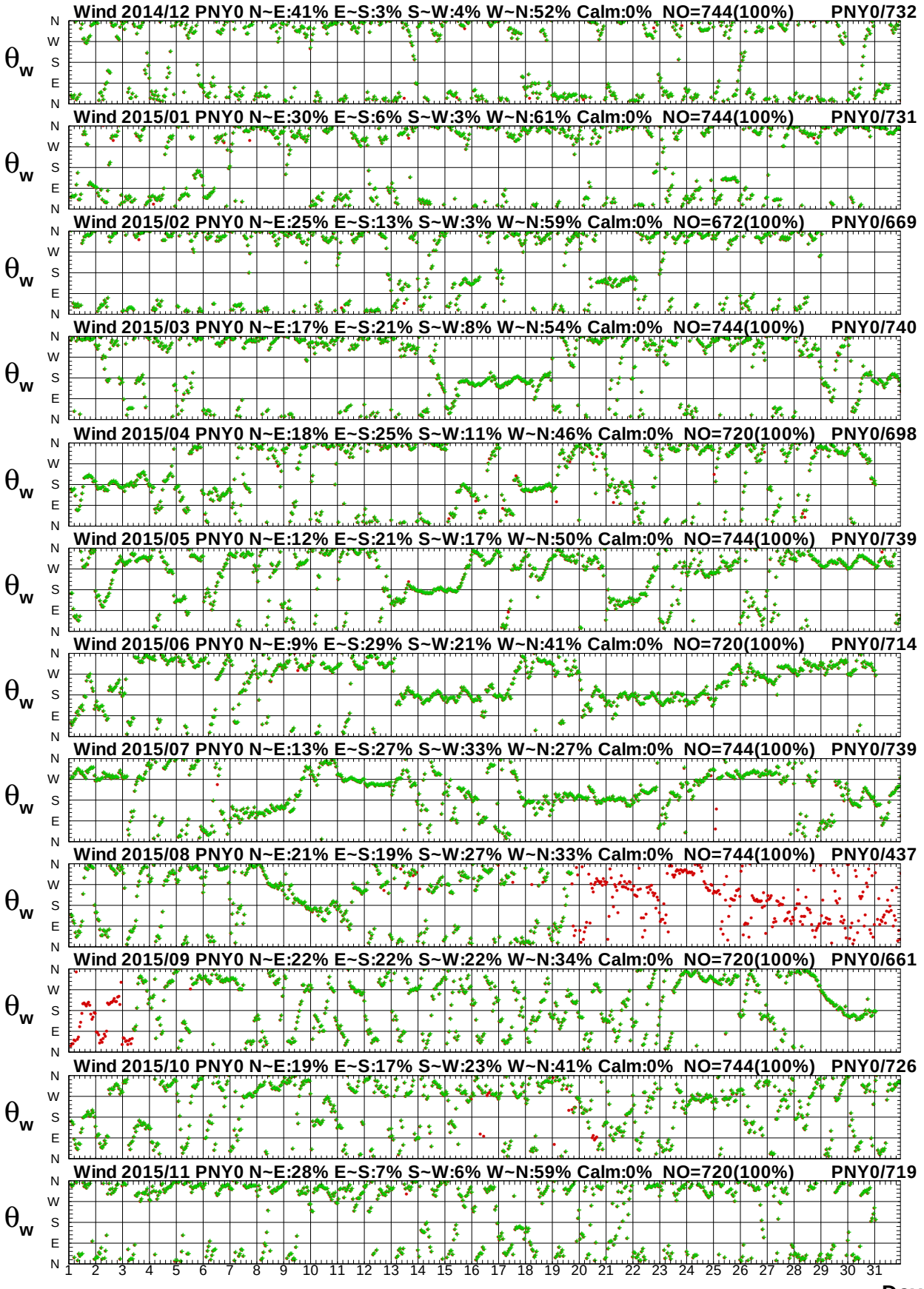

圖6.1b　2015年每月屏東海域 Y 站修補前後之風向比較圖

Wind Speed in Peng-Tung Seas of PNY0 at 2015

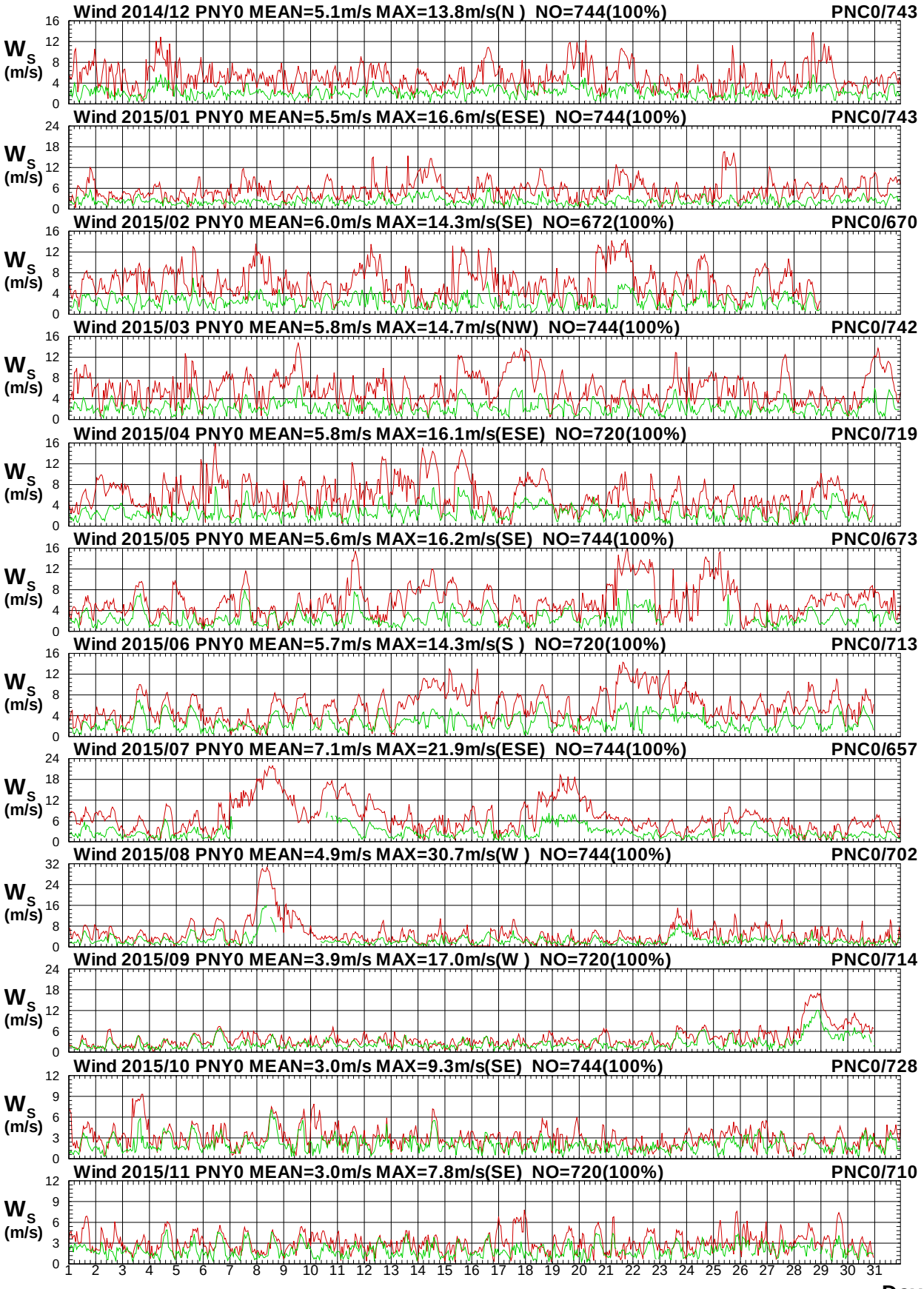

圖 6.2a　2015年每月屏東海域 Y 站與 C 站風速比較圖

W14CPNY0.1HA W14CPNC0.1H0 W151PNY0.1HA W151PNC0.1H0 W152PNY0.1HA W152PNC0.1H0
W153PNY0.1HA W153PNC0.1H0 W154PNY0.1HA W154PNC0.1H0 W155PNY0.1HA W155PNC0.1H0

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Wind Direction in Peng-Tung Seas of PNY0 at 2015

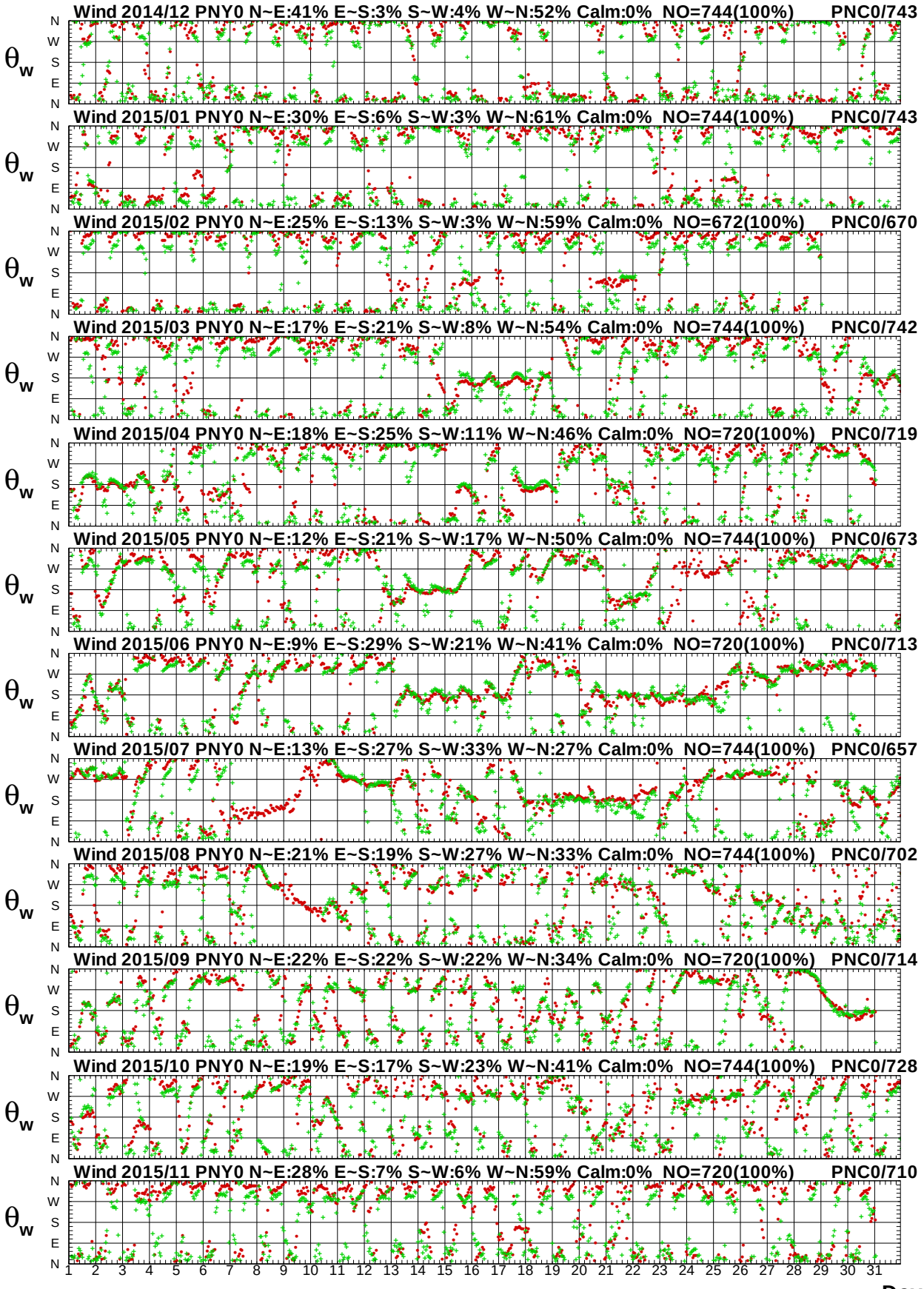

圖 6.2b　2015年每月屏東海域 Y 站與 C 站風向比較圖

W14CPNY0.1HA W14CPNC0.1H0 W151PNY0.1HA W151PNC0.1H0 W152PNY0.1HA W152PNC0.1H0
W153PNY0.1HA W153PNC0.1H0 W154PNY0.1HA W154PNC0.1H0 W155PNY0.1HA W155PNC0.1H0

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Wind Speed in Peng-Tung Seas of PNY0 at 2015

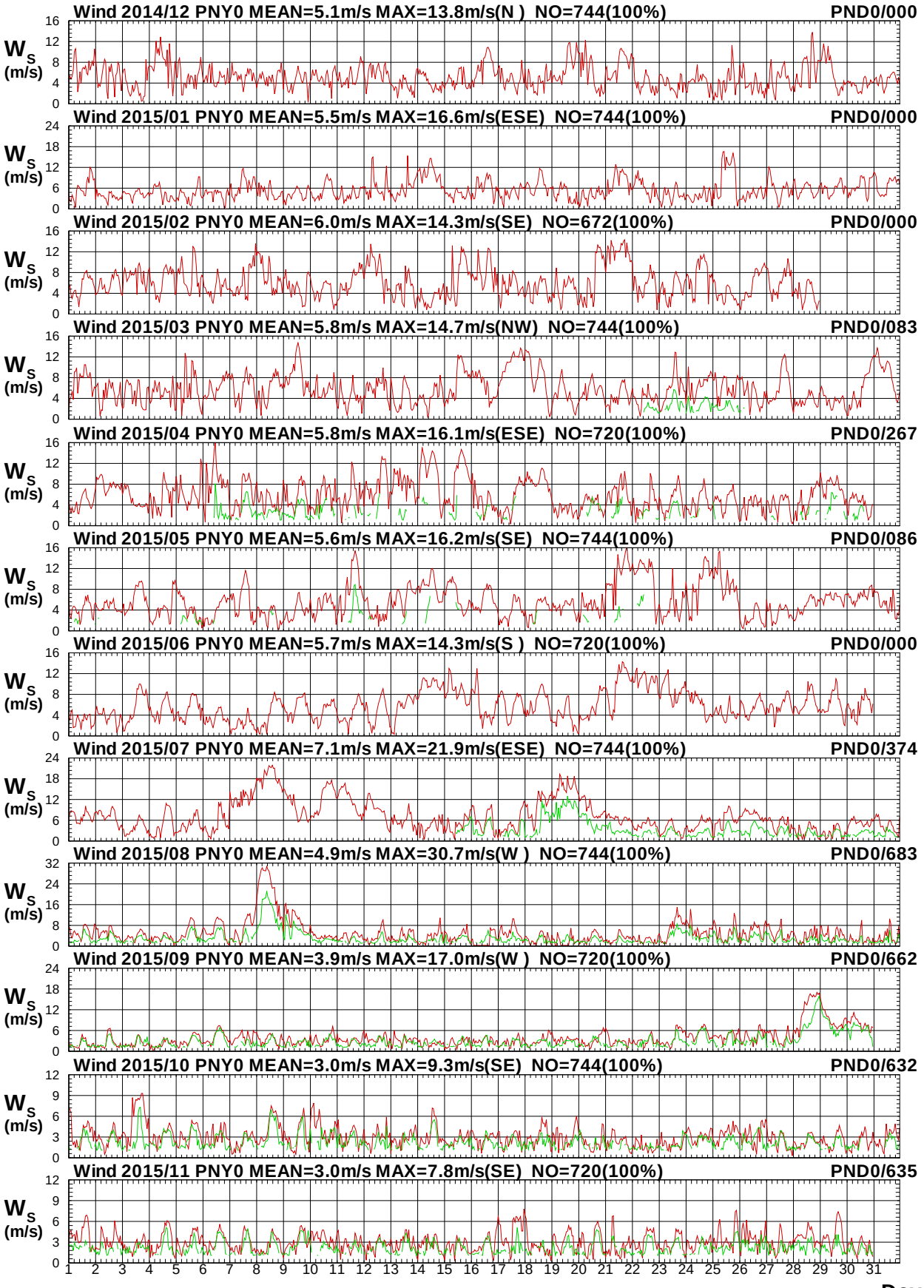

圖 6.3a　2015年每月屏東海域 Y 站與 D 站風速比較圖

W14CPNY0.1HA W14CPND0.1H0 W151PNY0.1HA W151PND0.1H0 W152PNY0.1HA W152PND0.1H0
W153PNY0.1HA W153PND0.1H0 W154PNY0.1HA W154PND0.1H0 W155PNY0.1HA W155PND0.1H0

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Wind Direction in Peng-Tung Seas of PNY0 at 2015

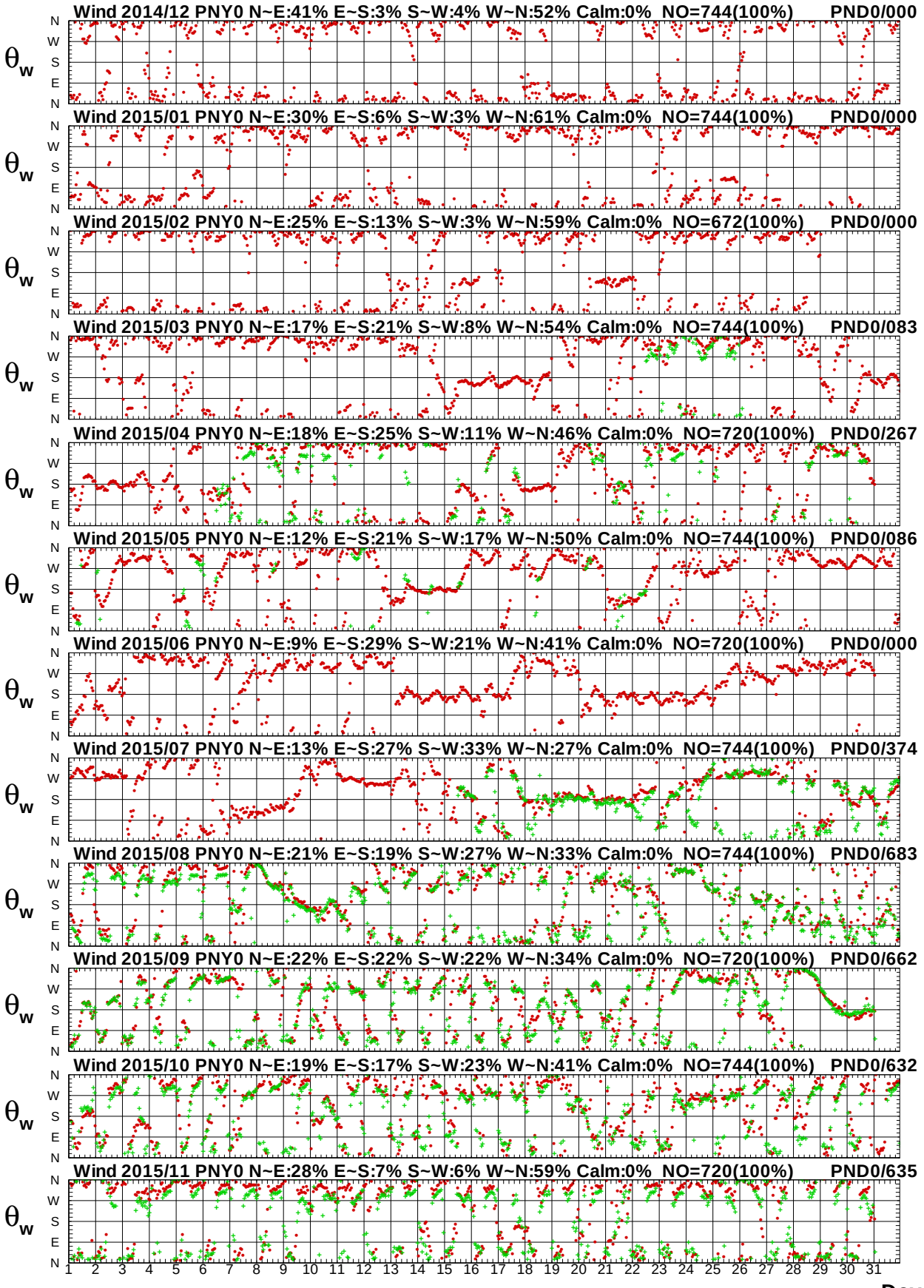

圖6.3b　2015年每月屏東海域 Y 站與 D 站風向比較圖

W14CPNY0.1HA W14CPND0.1H0 W151PNY0.1HA W151PND0.1H0 W152PNY0.1HA W152PND0.1H0
W153PNY0.1HA W153PND0.1H0 W154PNY0.1HA W154PND0.1H0 W155PNY0.1HA W155PND0.1H0

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Wind Speed in Peng-Tung Seas of PNY0 at 2015

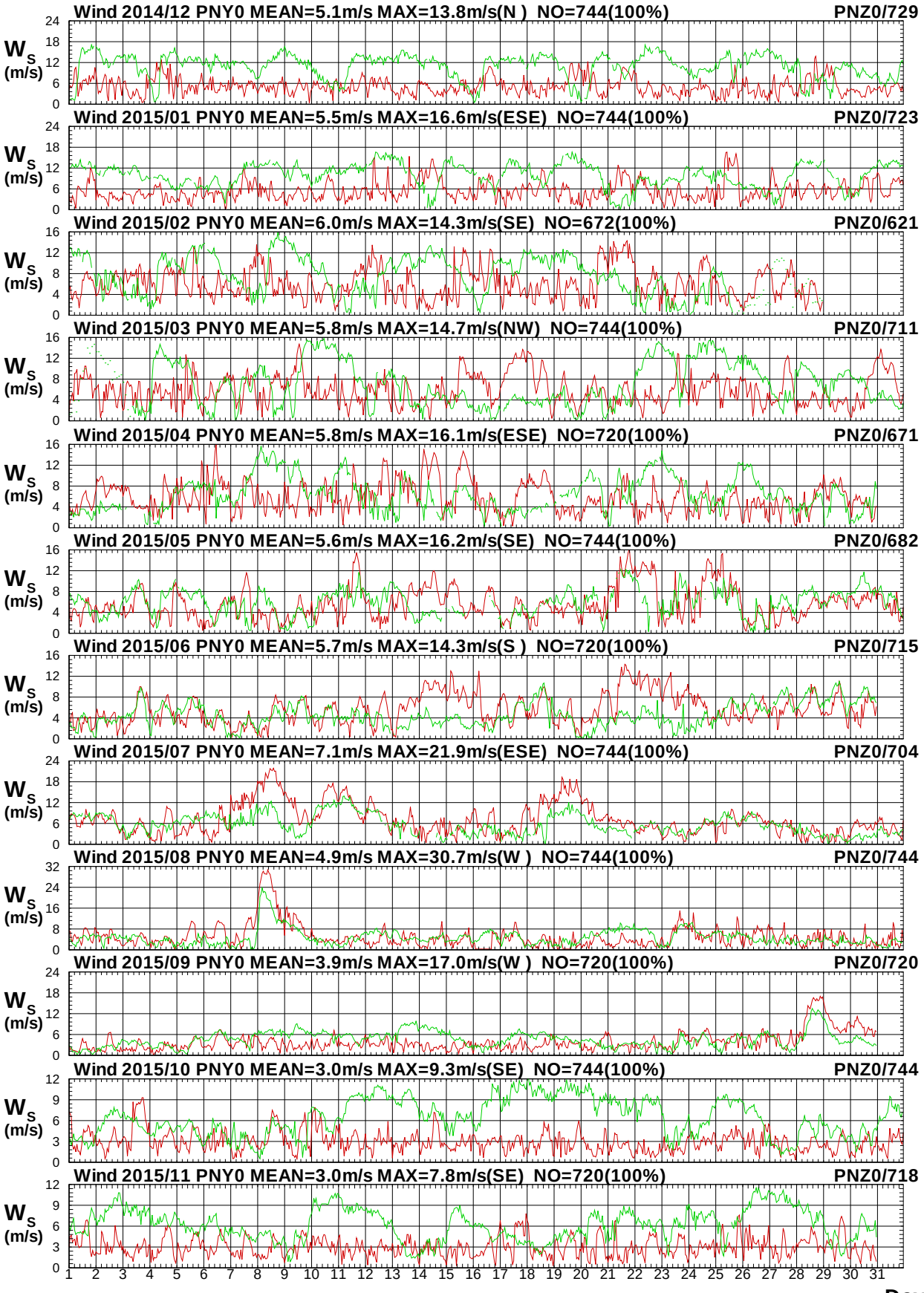

圖6.4a　2015年每月屏東海域 Y 站與 Z 站風速比較圖

W14CPNY0.1HA W14CPNZ0.1H0 W151PNY0.1HA W151PNZ0.1H0 W152PNY0.1HA W152PNZ0.1H0
W153PNY0.1HA W153PNZ0.1H0 W154PNY0.1HA W154PNZ0.1H0 W155PNY0.1HA W155PNZ0.1H0

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Wind Direction in Peng-Tung Seas of PNY0 at 2015

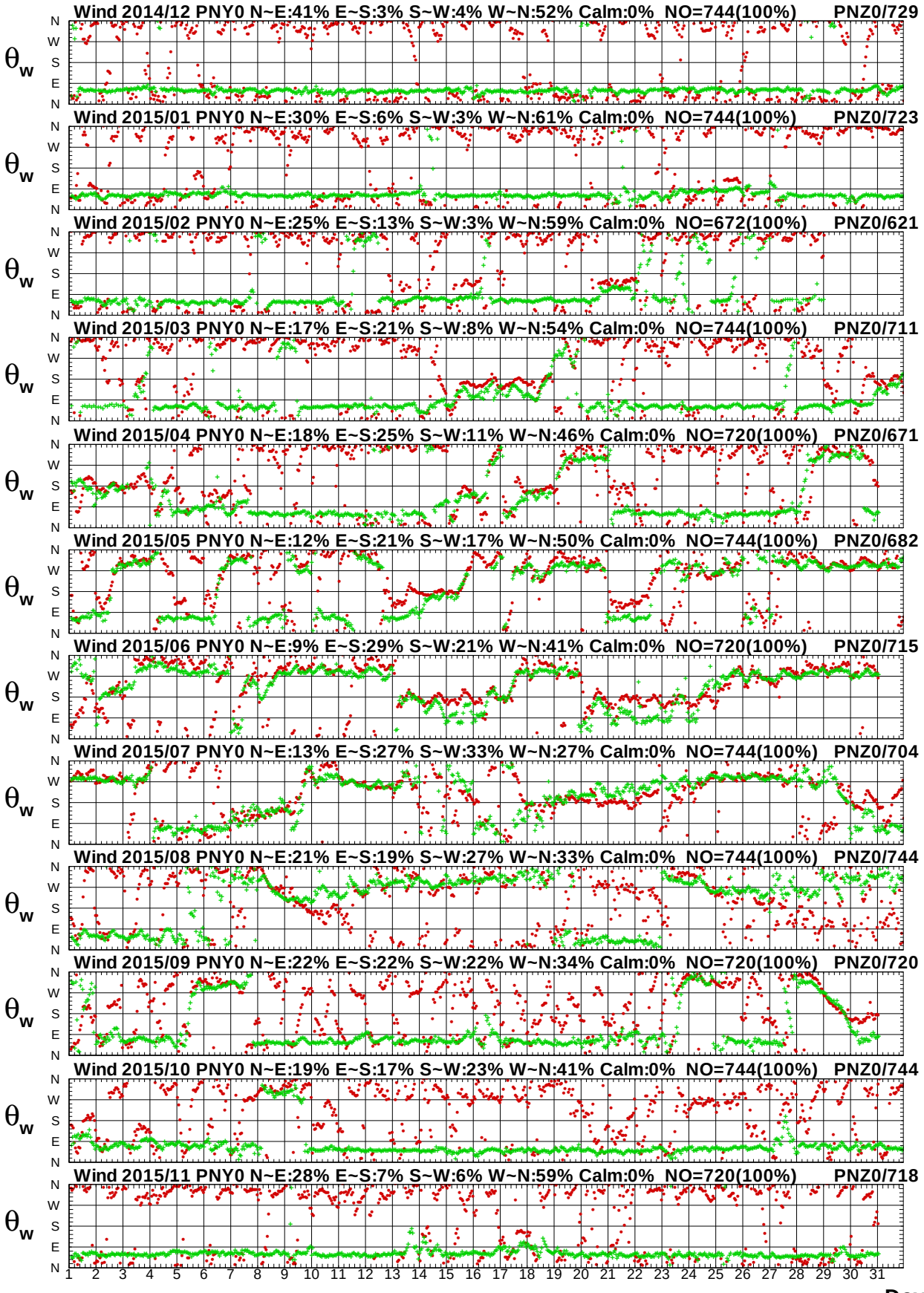

圖 6.4b　2015年每月屏東海域 Y 站與 Z 站風向比較圖

W14CPNY0.1HA W14CPNZ0.1H0 W151PNY0.1HA W151PNZ0.1H0 W152PNY0.1HA W152PNZ0.1H0
W153PNY0.1HA W153PNZ0.1H0 W154PNY0.1HA W154PNZ0.1H0 W155PNY0.1HA W155PNZ0.1H0

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Wind Speed in Peng-Tung Seas of PNY0 at 2015

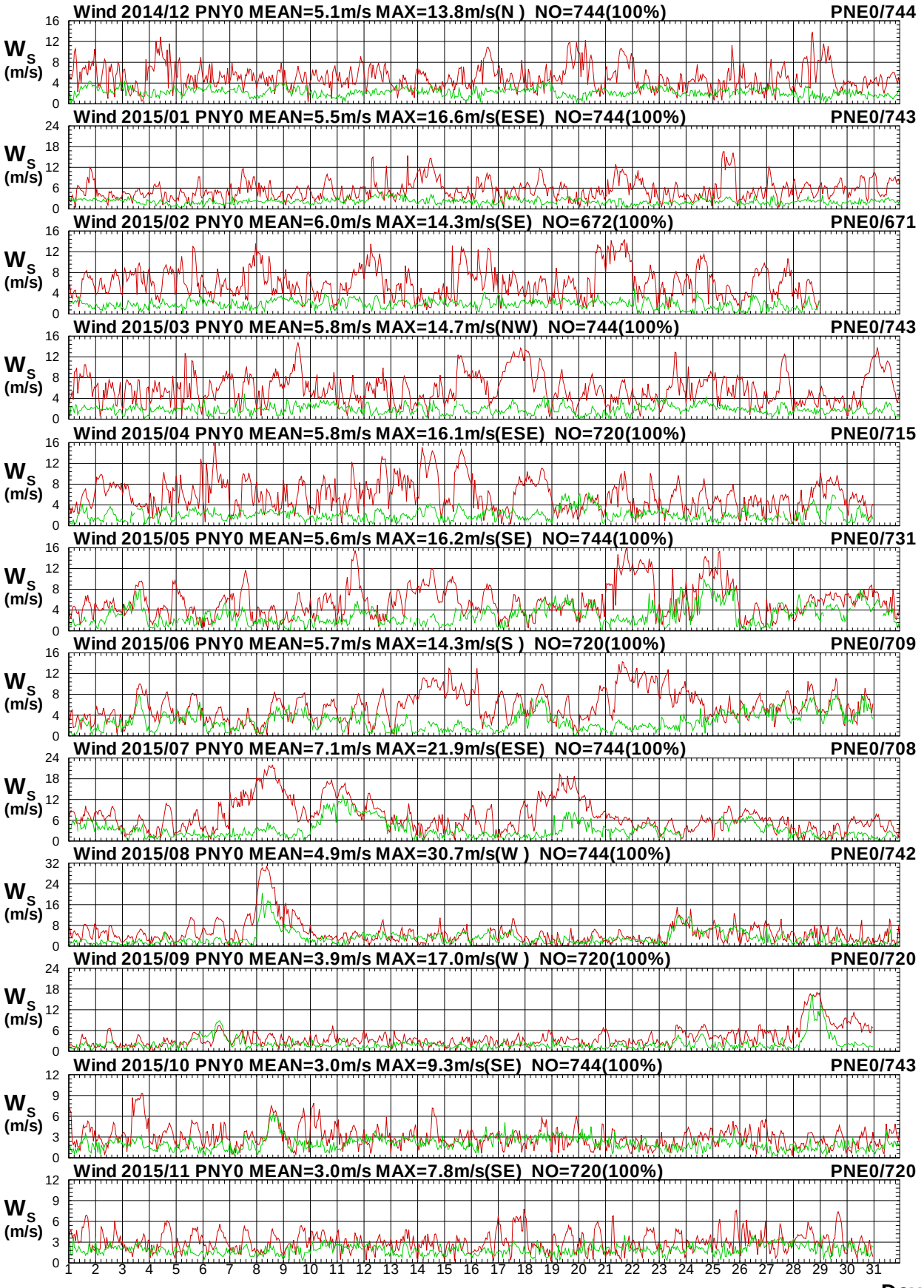

圖6.5a　2015年每月屏東海域 Y 站與 E 站風速比較圖

W14CPNY0.1HA W14CPNE0.1H0 W151PNY0.1HA W151PNE0.1H0 W152PNY0.1HA W152PNE0.1H0
W153PNY0.1HA W153PNE0.1H0 W154PNY0.1HA W154PNE0.1H0 W155PNY0.1HA W155PNE0.1H0

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Wind Direction in Peng-Tung Seas of PNY0 at 2015

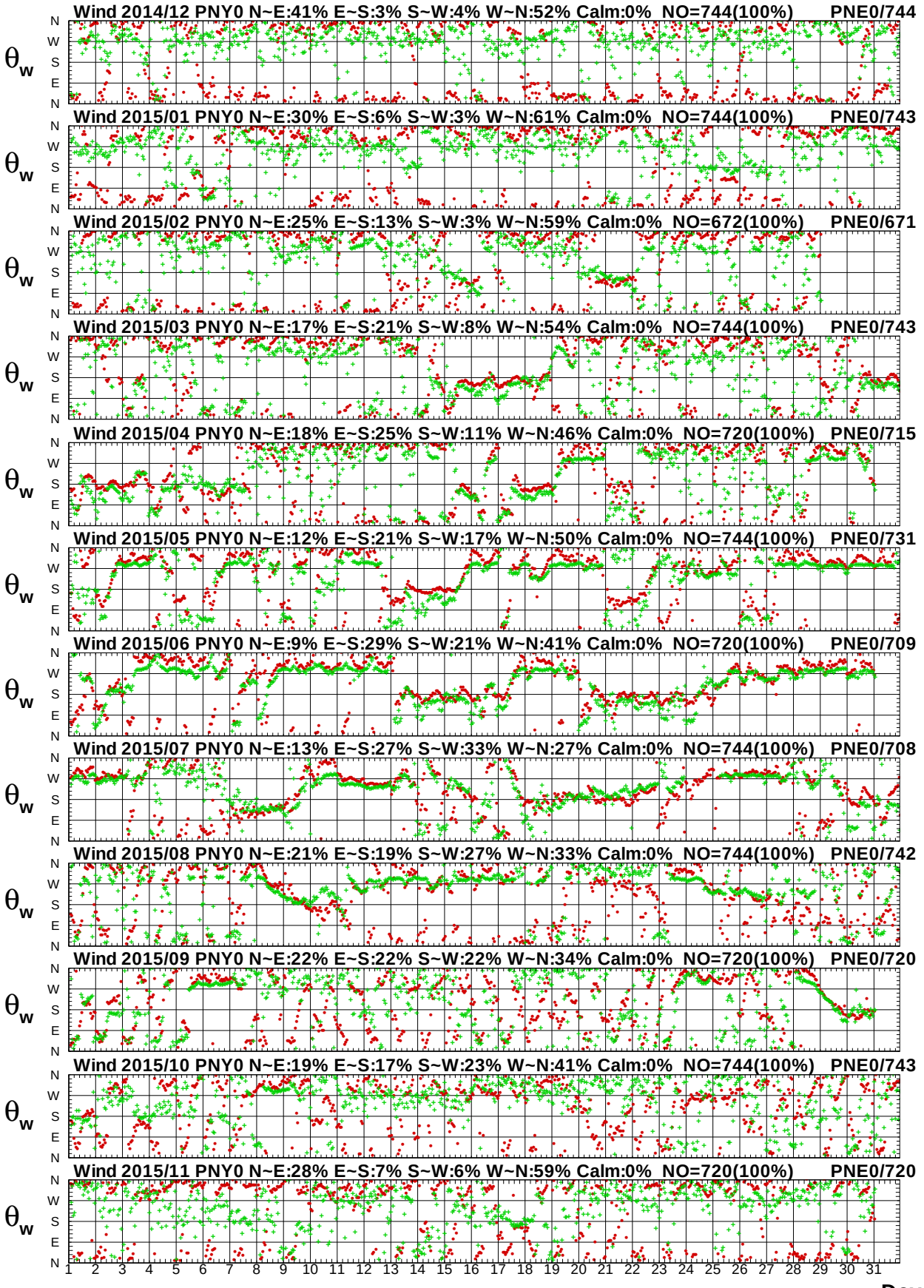

圖 6.5b　2015年每月屏東海域 Y 站與 E 站風向比較圖

W14CPNY0.1HA W14CPNE0.1H0 W151PNY0.1HA W151PNE0.1H0 W152PNY0.1HA W152PNE0.1H0
W153PNY0.1HA W153PNE0.1H0 W154PNY0.1HA W154PNE0.1H0 W155PNY0.1HA W155PNE0.1H0

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Wind Speed in Peng-Tung Seas of PNY0 at 2015

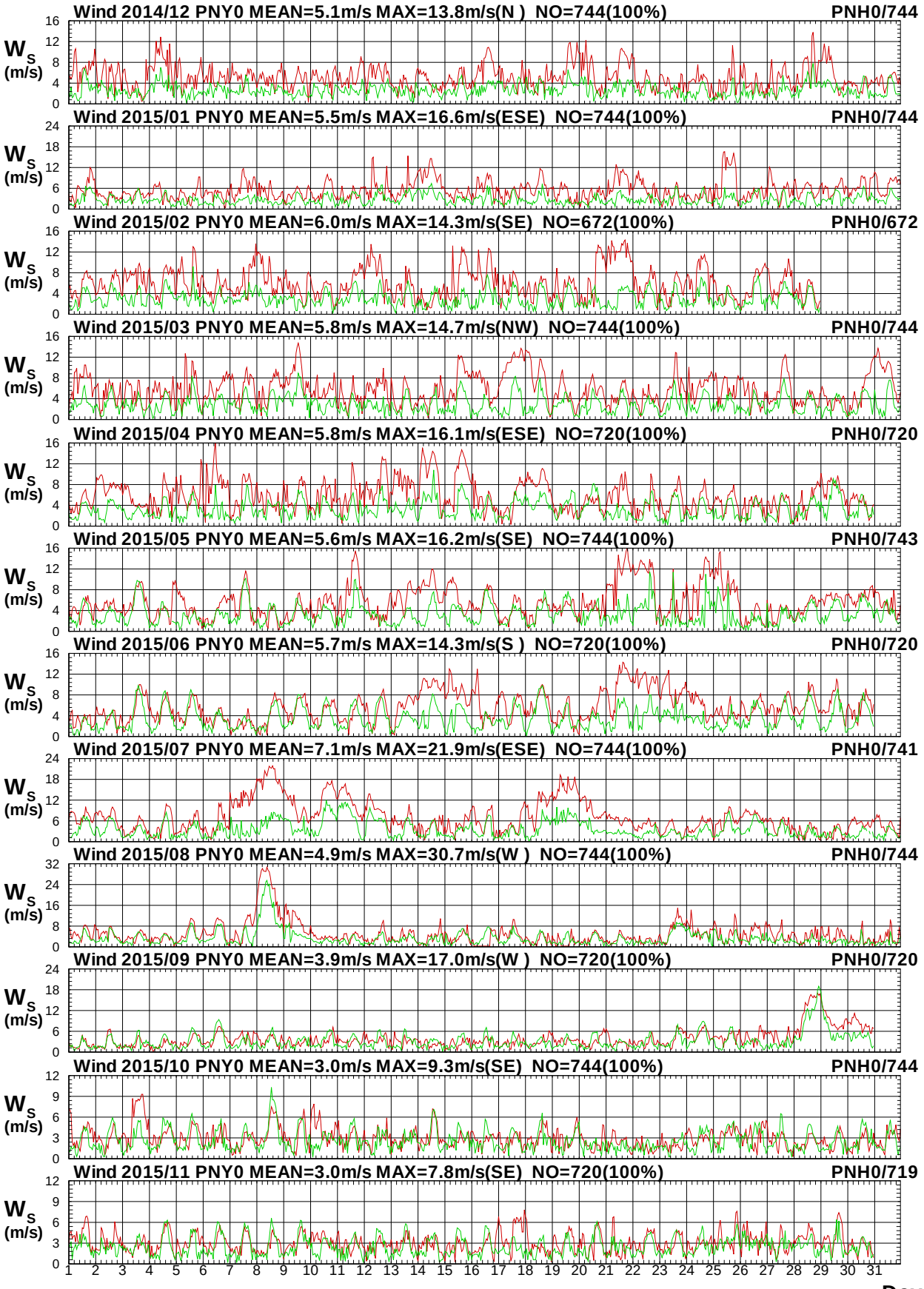

圖 6.6a　2015年每月屏東海域 Y 站與 H 站風速比較圖

W14CPNY0.1HA W14CPNH0.1H0 W151PNY0.1HA W151PNH0.1H0 W152PNY0.1HA W152PNH0.1H0
W153PNY0.1HA W153PNH0.1H0 W154PNY0.1HA W154PNH0.1H0 W155PNY0.1HA W155PNH0.1H0

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Wind Direction in Peng-Tung Seas of PNY0 at 2015

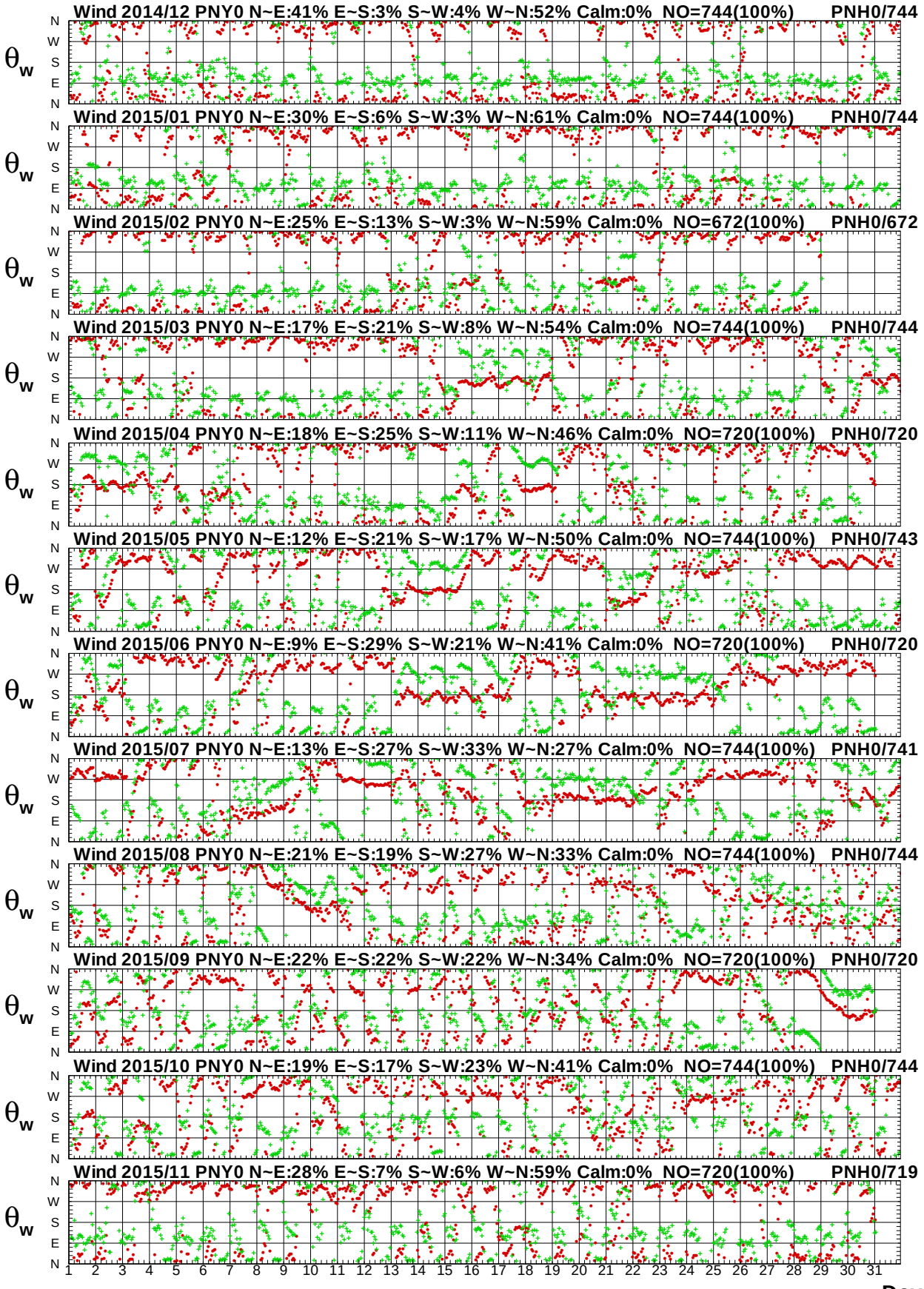

圖 6.6b　2015年每月屏東海域 Y 站與 H 站風向比較圖

W14CPNY0.1HA W14CPNH0.1H0 W151PNY0.1HA W151PNH0.1H0 W152PNY0.1HA W152PNH0.1H0
W153PNY0.1HA W153PNH0.1H0 W154PNY0.1HA W154PNH0.1H0 W155PNY0.1HA W155PNH0.1H0

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Wind Speed in Peng-Tung Seas of PNY0 at 2015

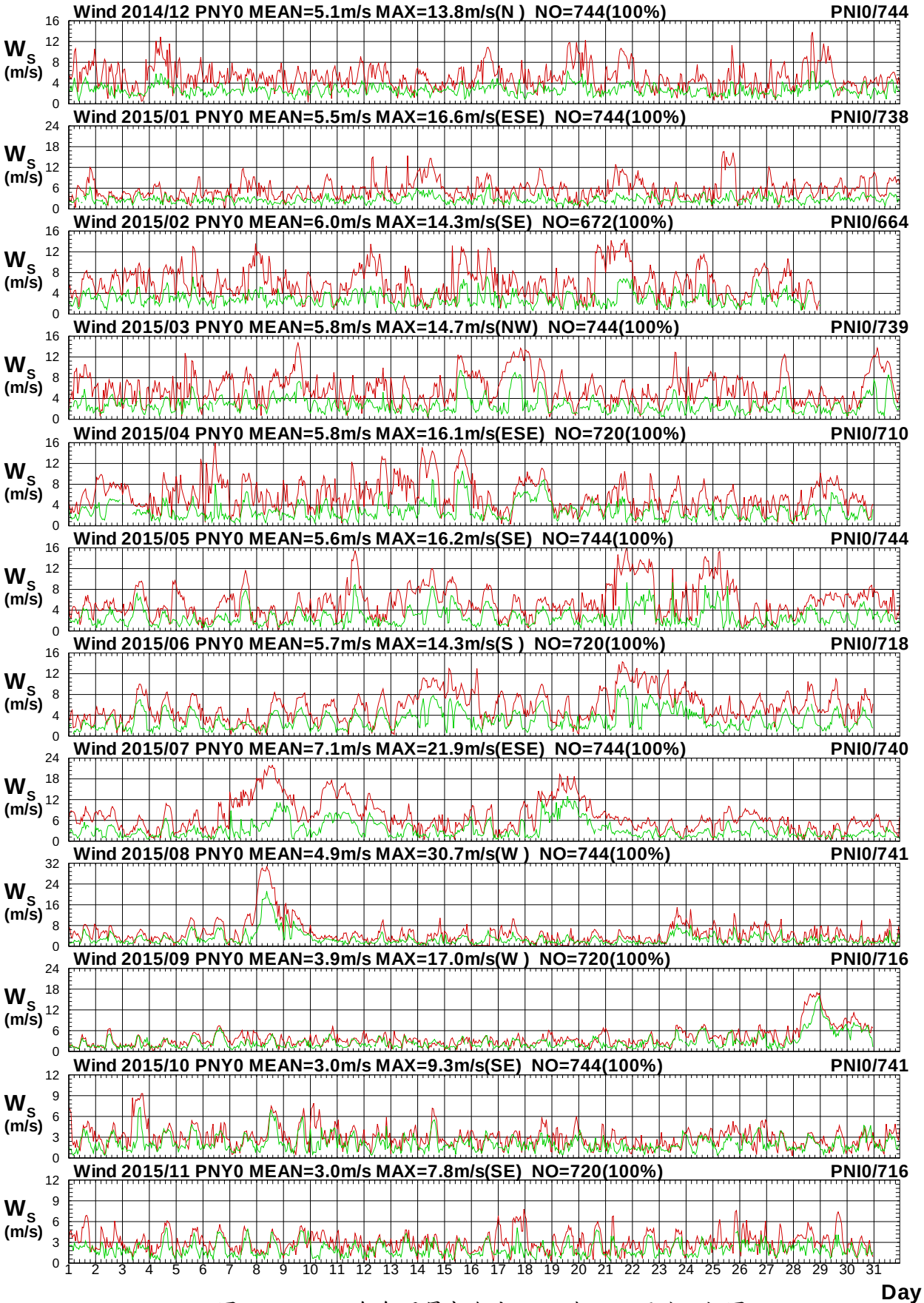

圖6.7a　2015年每月屏東海域 Y 站與 I 站風速比較圖

W14CPNY0.1HA W14CPNI0.1H0 W151PNY0.1HA W151PNI0.1H0 W152PNY0.1HA W152PNI0.1H0
W153PNY0.1HA W153PNI0.1H0 W154PNY0.1HA W154PNI0.1H0 W155PNY0.1HA W155PNI0.1H0

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Wind Direction in Peng-Tung Seas of PNY0 at 2015

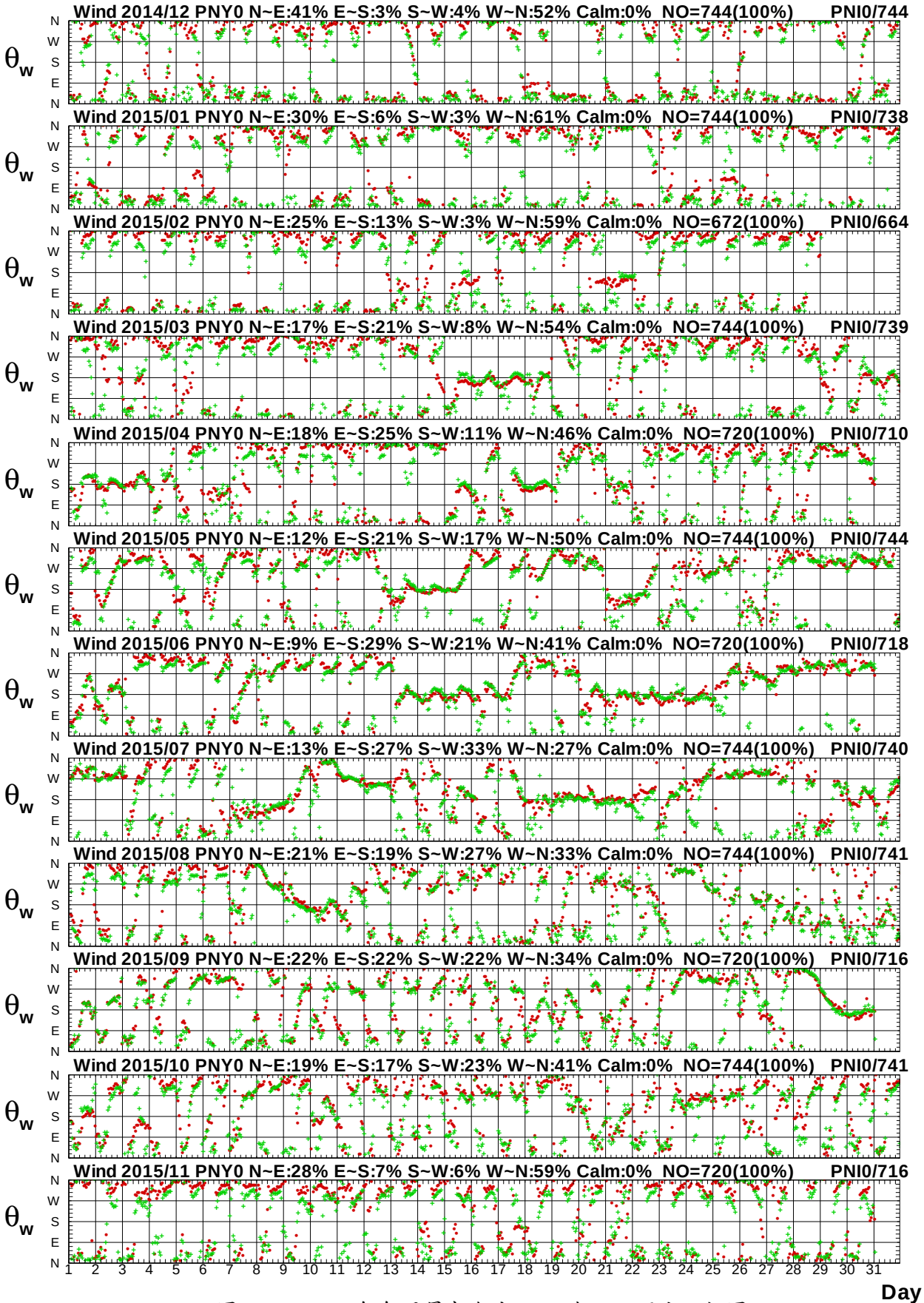

圖6.7b　2015年每月屏東海域 Y 站與 I 站風向比較圖

Wind Speed in Peng-Tung Seas of PNY0 at 2015

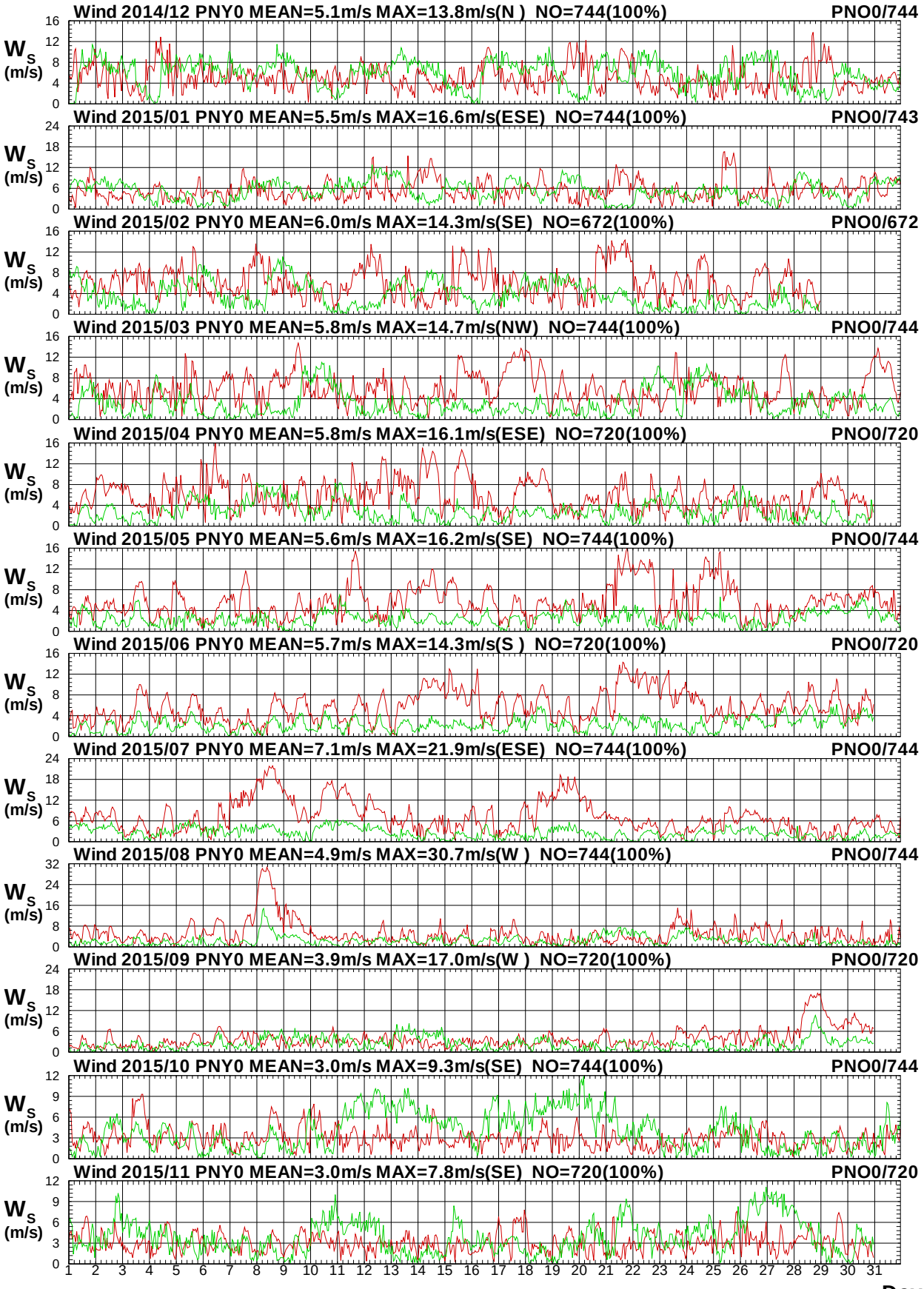

圖 6.8a　2015年每月屏東海域 Y 站與 O 站風速比較圖

W14CPNY0.1HA W14CPNO0.1H0 W151PNY0.1HA W151PNO0.1H0 W152PNY0.1HA W152PNO0.1H0
W153PNY0.1HA W153PNO0.1H0 W154PNY0.1HA W154PNO0.1H0 W155PNY0.1HA W155PNO0.1H0

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Wind Direction in Peng-Tung Seas of PNY0 at 2015

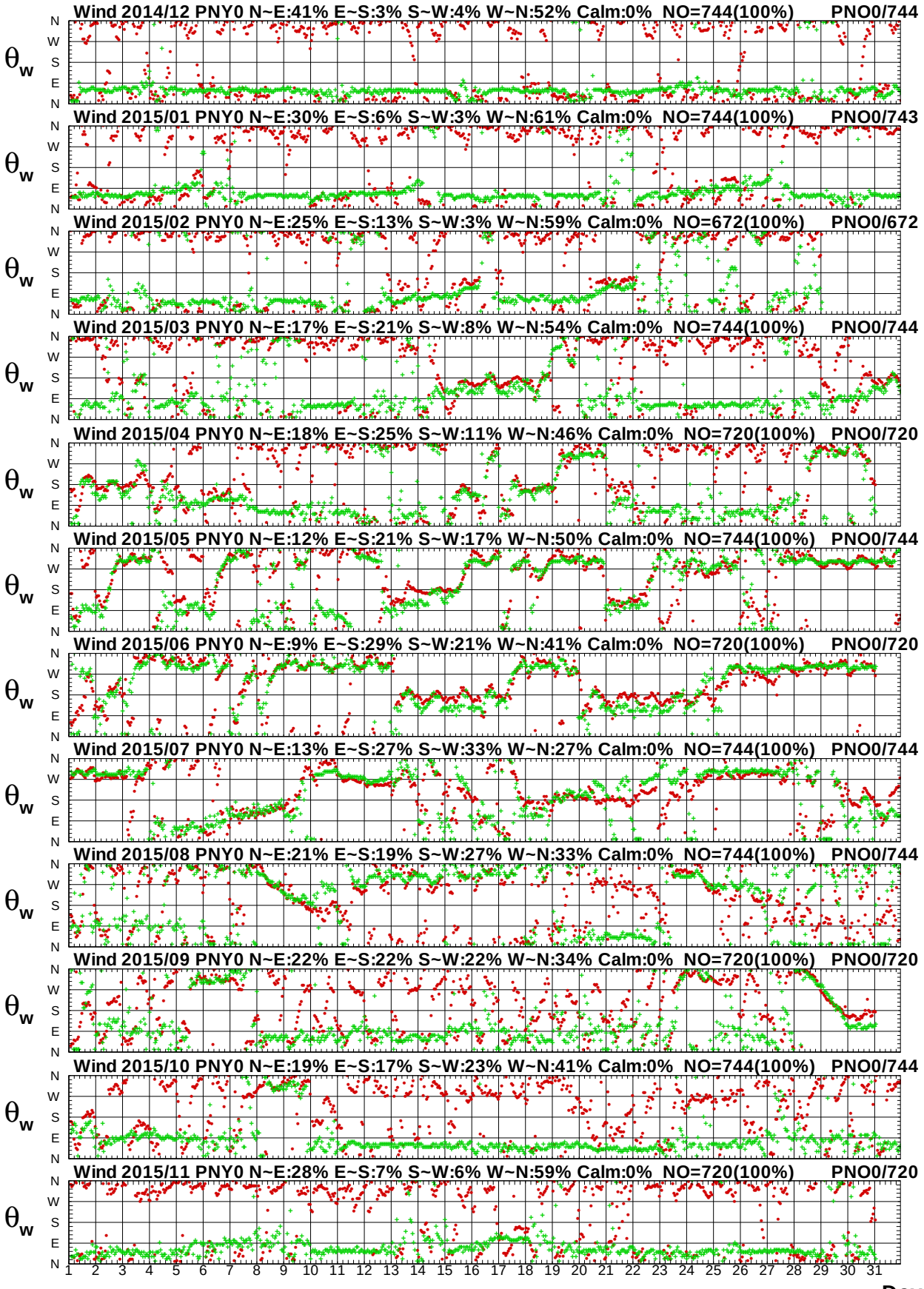

圖 6.8b　2015年每月屏東海域 Y 站與 O 站風向比較圖

Wind Speed in Peng-Tung Seas of PNY0 at 2015

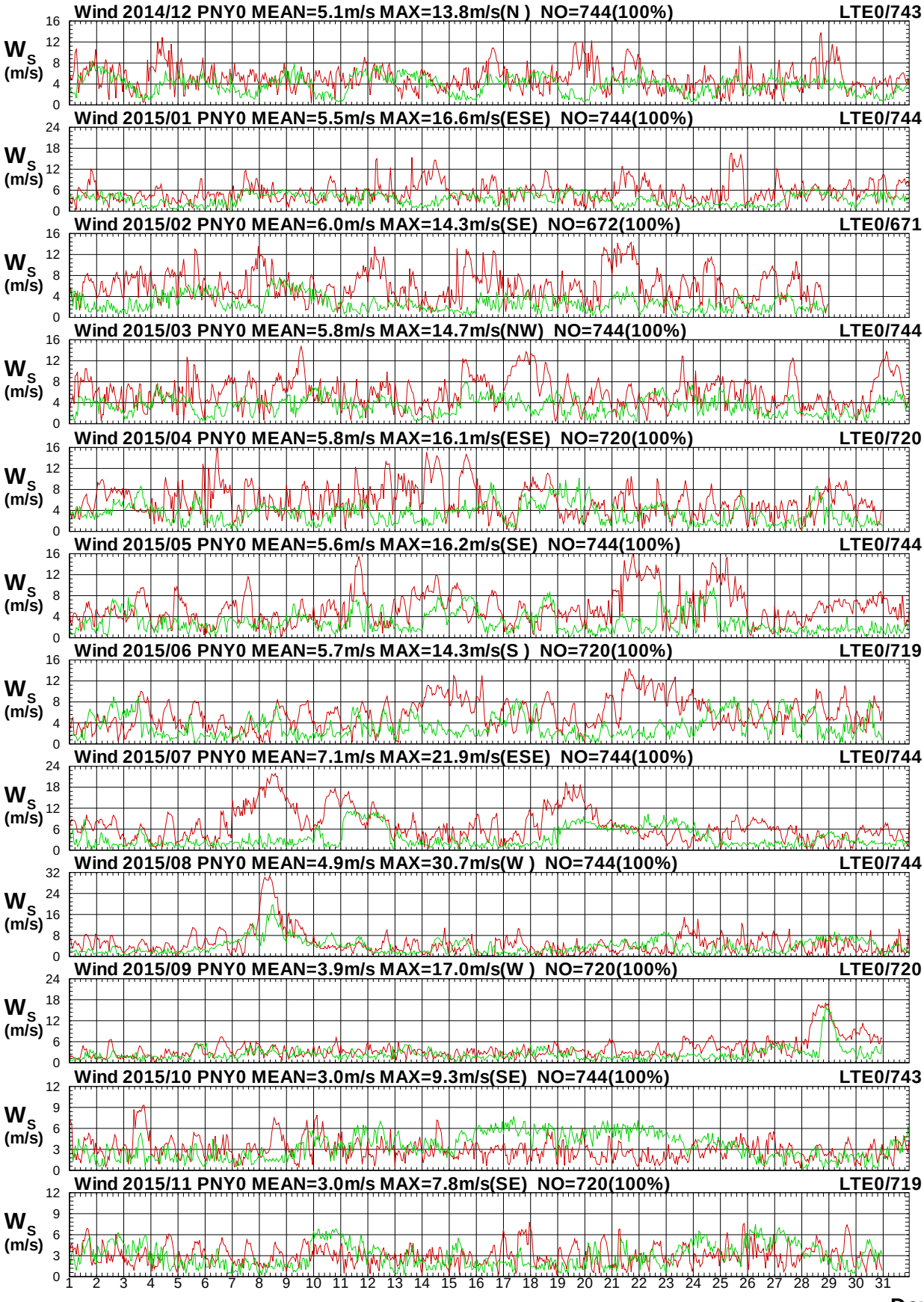

圖 6.9a　2015年每月屏東海域 Y 站與臺東海域 E 站風速圖

W14CPNY0.1HA W14CLTE0.1H0 W151PNY0.1HA W151LTE0.1H0 W152PNY0.1HA W152LTE0.1H0
W153PNY0.1HA W153LTE0.1H0 W154PNY0.1HA W154LTE0.1H0 W155PNY0.1HA W155LTE0.1H0

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Wind Direction in Peng-Tung Seas of PNY0 at 2015

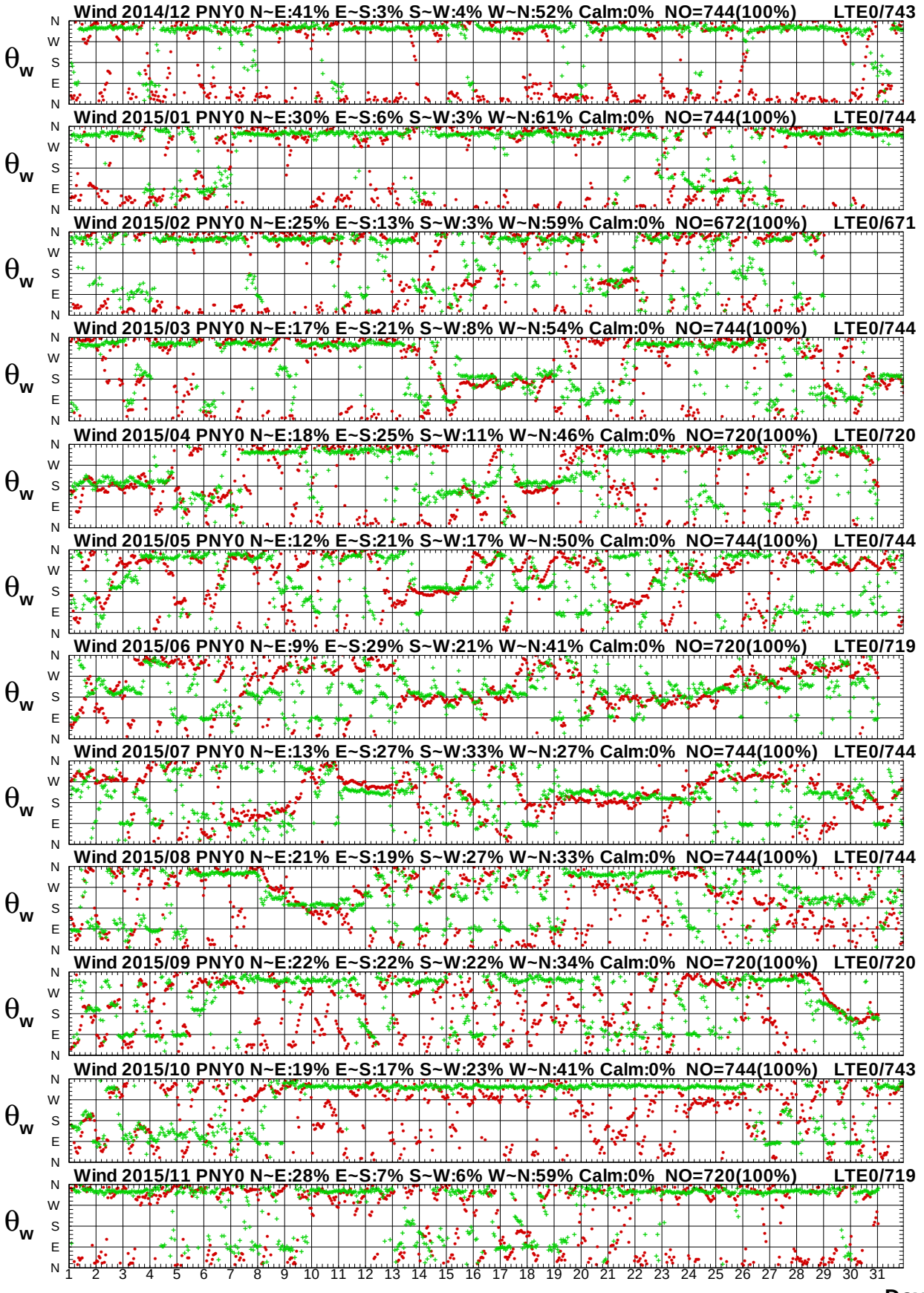

圖 6.9b　2015年每月屏東海域 Y 站與臺東海域 E 站風向圖

Wind Speed in Peng-Tung Seas of PNY0 at 2015

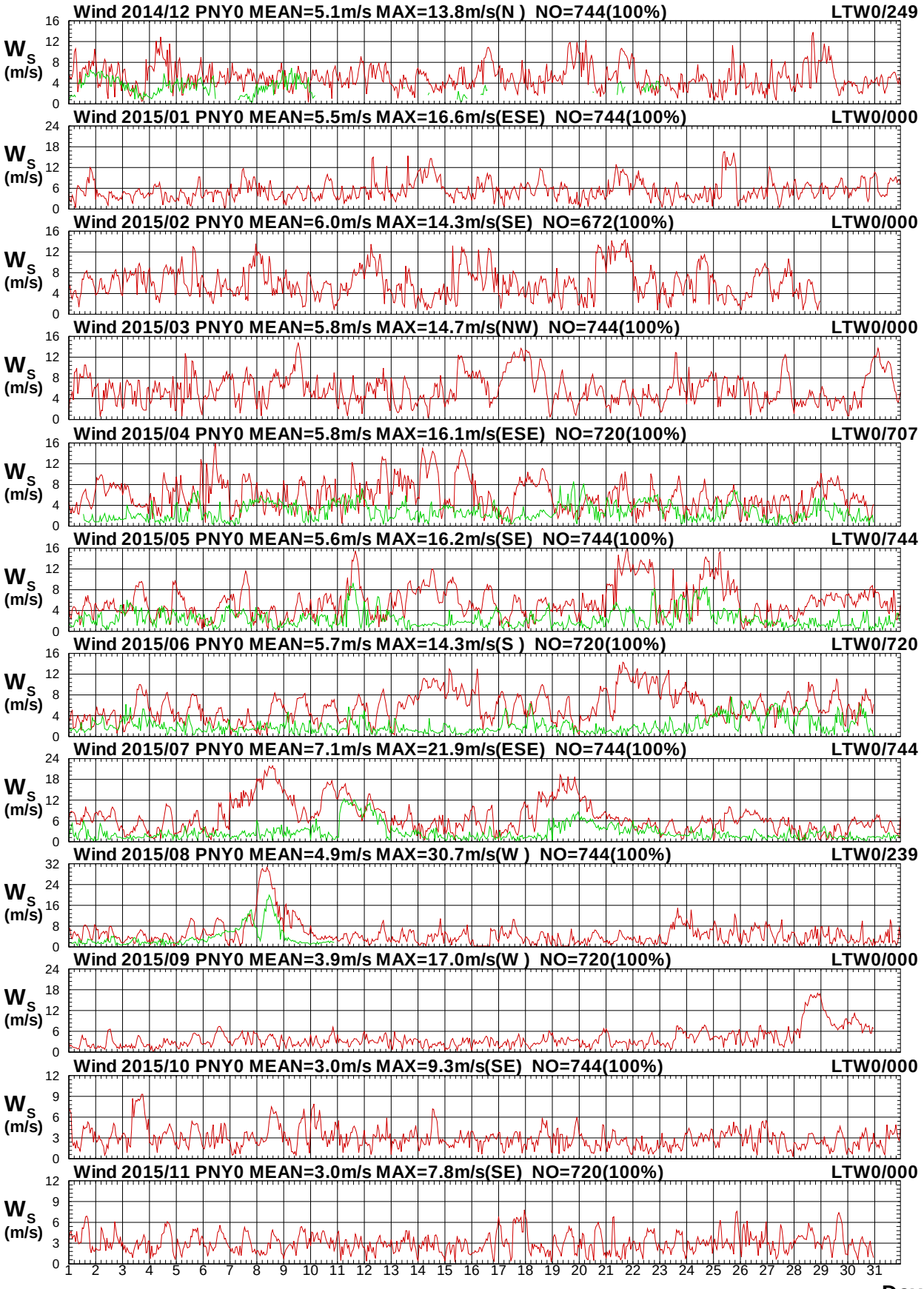

圖6.10a　2015年每月屏東海域 Y 站與臺東海域 W 站風速圖

W14CPNY0.1HA W14CLTW0.1H0 W151PNY0.1HA W151LTW0.1H0 W152PNY0.1HA W152LTW0.1H0
W153PNY0.1HA W153LTW0.1H0 W154PNY0.1HA W154LTW0.1H0 W155PNY0.1HA W155LTW0.1H0

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Wind Direction in Peng-Tung Seas of PNY0 at 2015

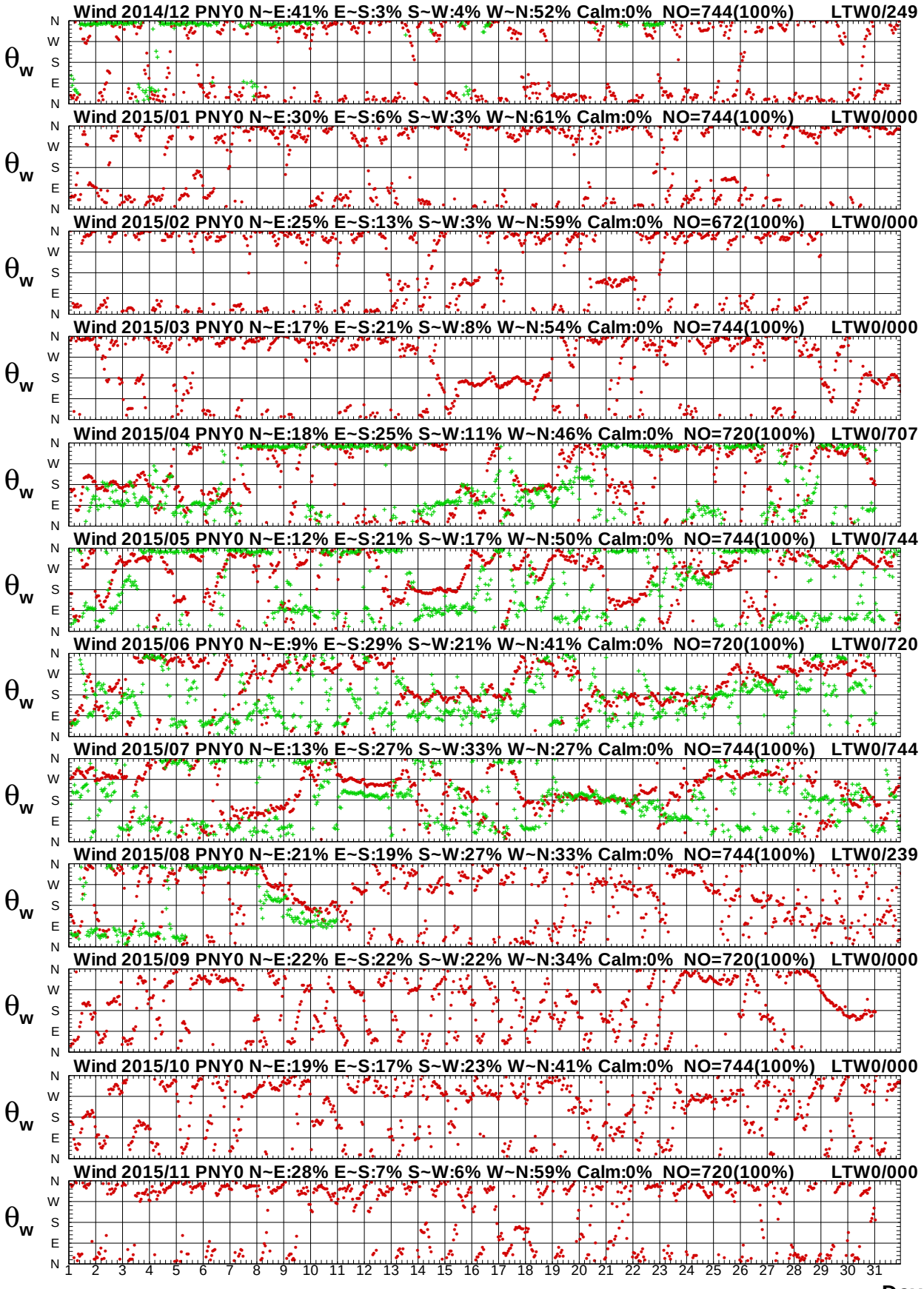

圖6.10b　2015年每月屏東海域 Y 站與臺東海域 W 站風向圖

Wind Speed in Peng-Tung Seas of PNY0 at 2015

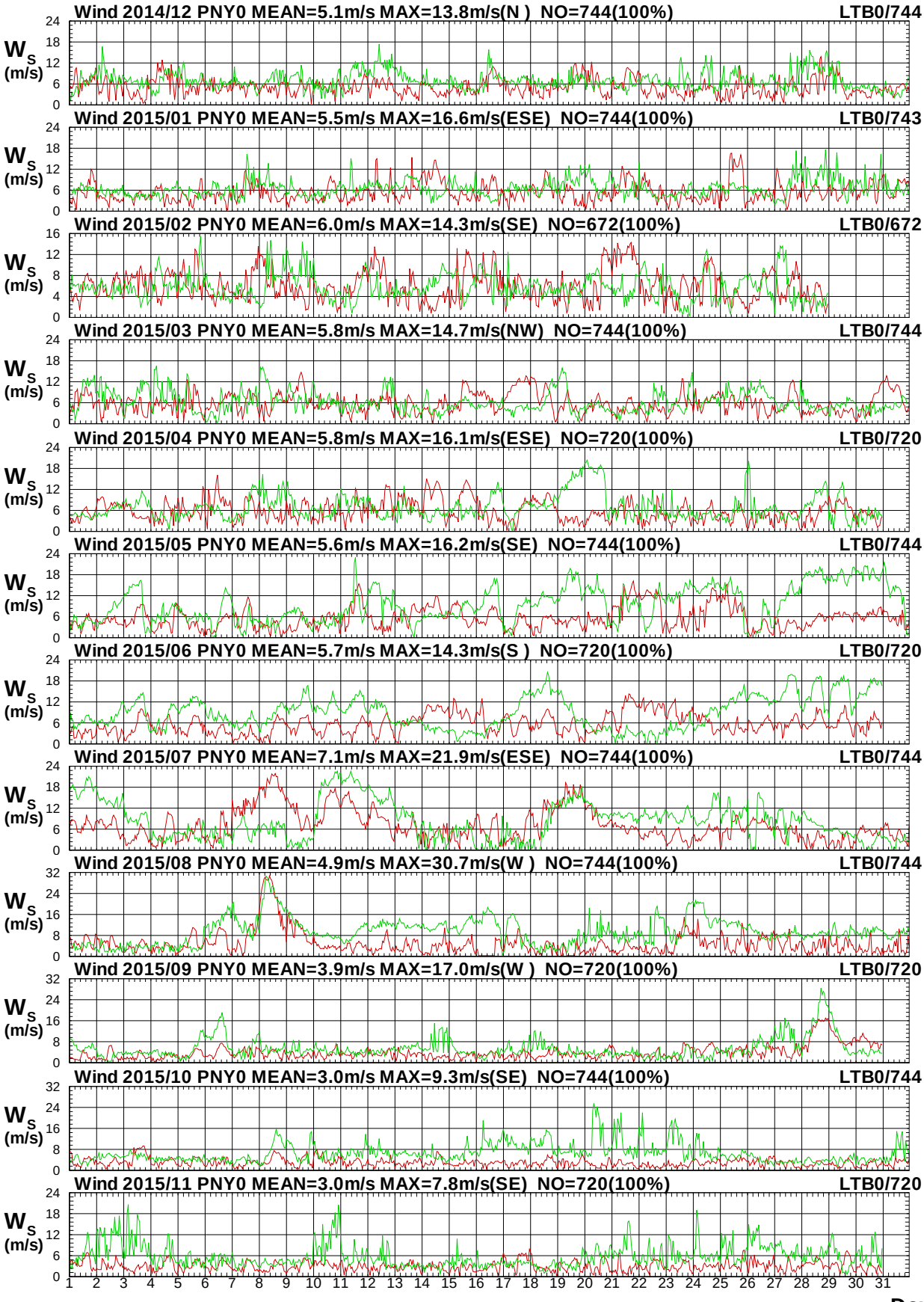

圖6.11a　2015年每月屏東海域 Y 站與臺東海域 B 站風速圖

W14CPNY0.1HA W14CLTB0.1H0 W151PNY0.1HA W151LTB0.1H0 W152PNY0.1HA W152LTB0.1H0
W153PNY0.1HA W153LTB0.1H0 W154PNY0.1HA W154LTB0.1H0 W155PNY0.1HA W155LTB0.1H0

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Wind Direction in Peng-Tung Seas of PNY0 at 2015

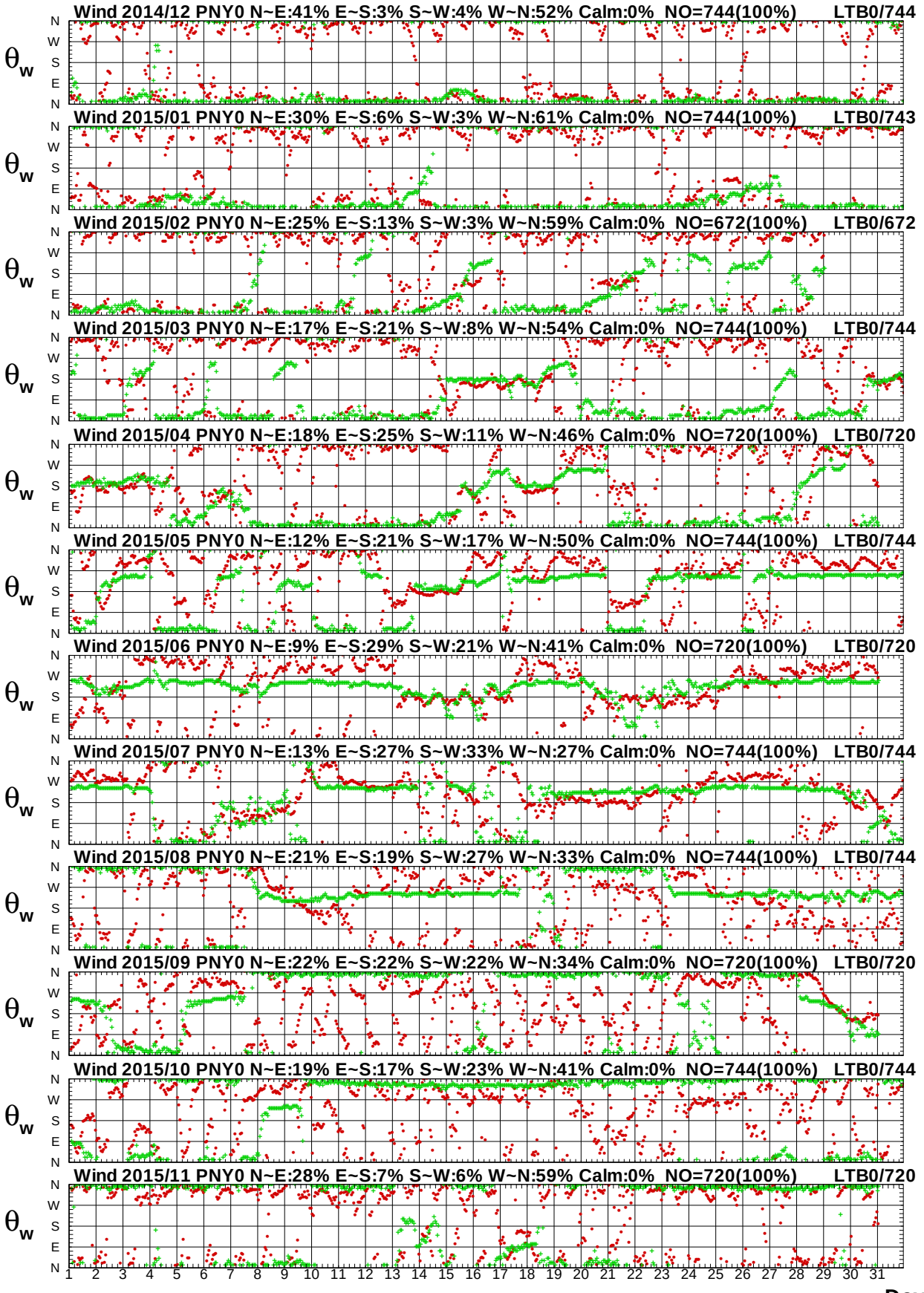

圖6.11b　2015年每月屏東海域 Y 站與臺東海域 B 站風向圖

W14CPNY0.1HA W14CLTB0.1H0 W151PNY0.1HA W151LTB0.1H0 W152PNY0.1HA W152LTB0.1H0
W153PNY0.1HA W153LTB0.1H0 W154PNY0.1HA W154LTB0.1H0 W155PNY0.1HA W155LTB0.1H0

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Wind Speed in Peng-Tung Seas of PNY0 at 2015

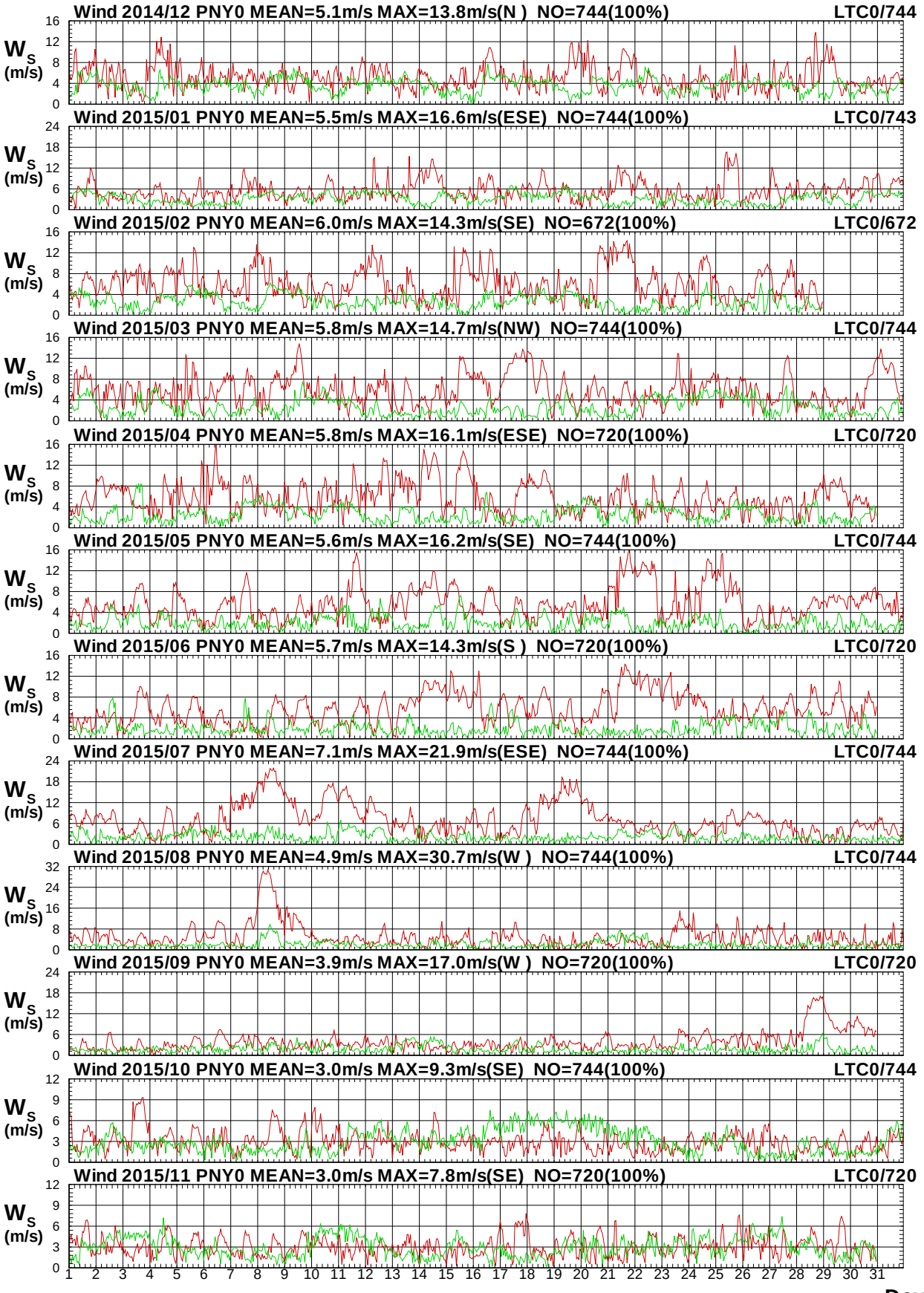

圖6.12a　2015年每月屏東海域 Y 站與臺東海域 C 站風速圖

W14CPNY0.1HA W14CLTC0.1H0 W151PNY0.1HA W151LTC0.1H0 W152PNY0.1HA W152LTC0.1H0
W153PNY0.1HA W153LTC0.1H0 W154PNY0.1HA W154LTC0.1H0 W155PNY0.1HA W155LTC0.1H0

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Wind Direction in Peng-Tung Seas of PNY0 at 2015

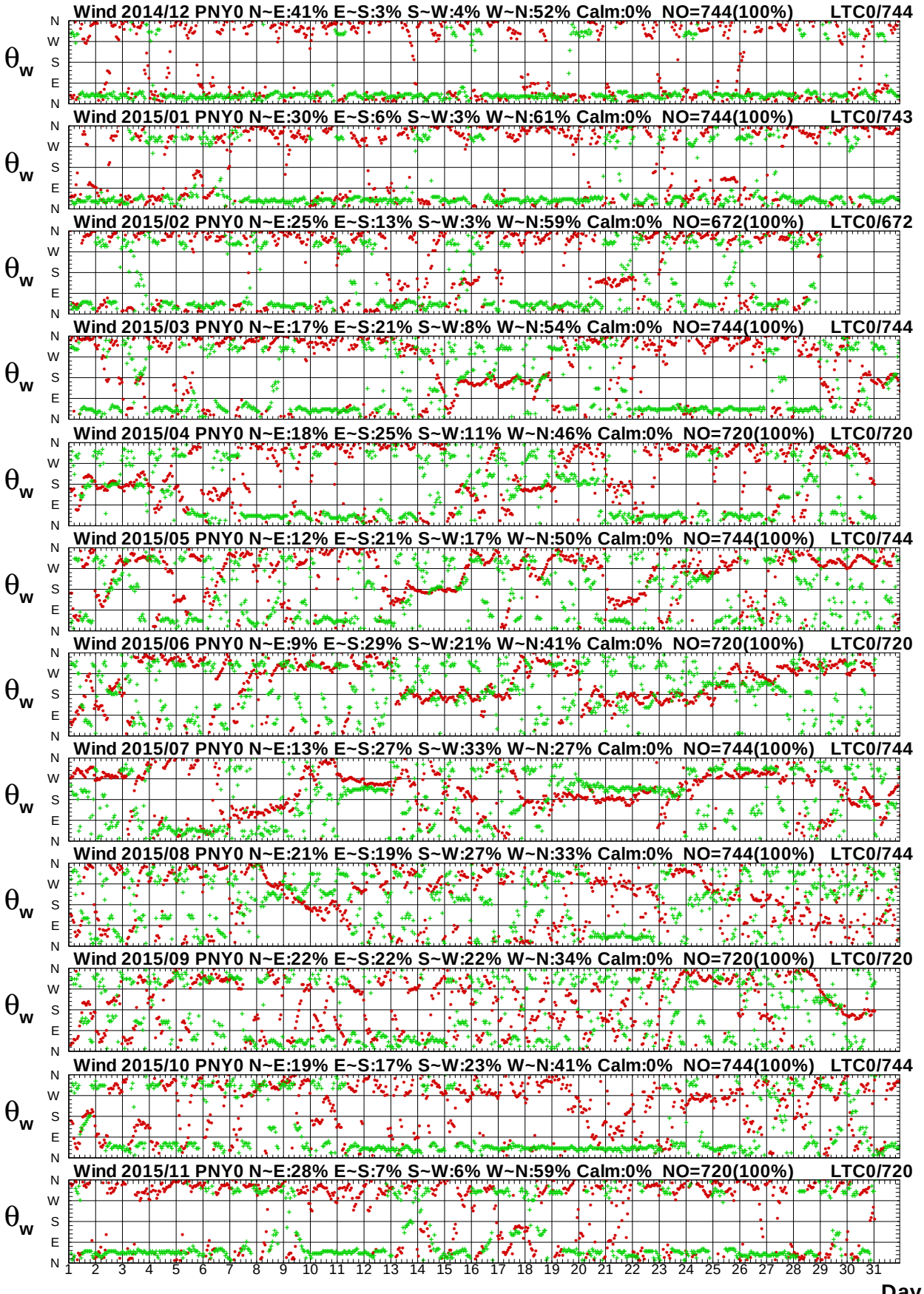

圖6.12b　2015年每月屏東海域 Y 站與臺東海域 C 站風向圖

Wind Speed in Peng-Tung Seas of PNY0 at 2015

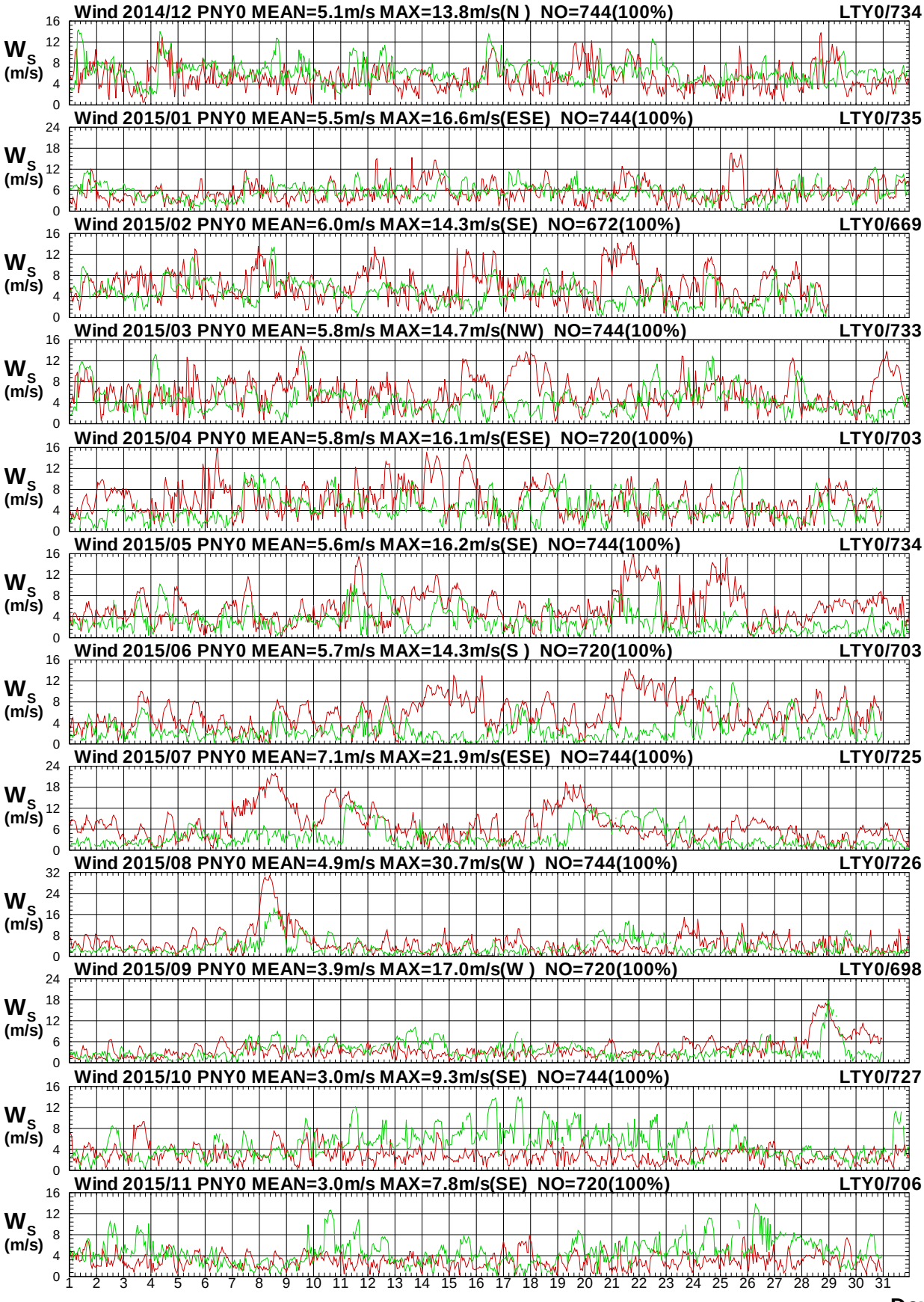

圖6.13a　2015年每月屏東海域 Y 站與臺東海域 Y 站風速圖

W14CPNY0.1HA W14CLTY0.1H0 W151PNY0.1HA W151LTY0.1H0 W152PNY0.1HA W152LTY0.1H0
W153PNY0.1HA W153LTY0.1H0 W154PNY0.1HA W154LTY0.1H0 W155PNY0.1HA W155LTY0.1H0

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Wind Direction in Peng-Tung Seas of PNY0 at 2015

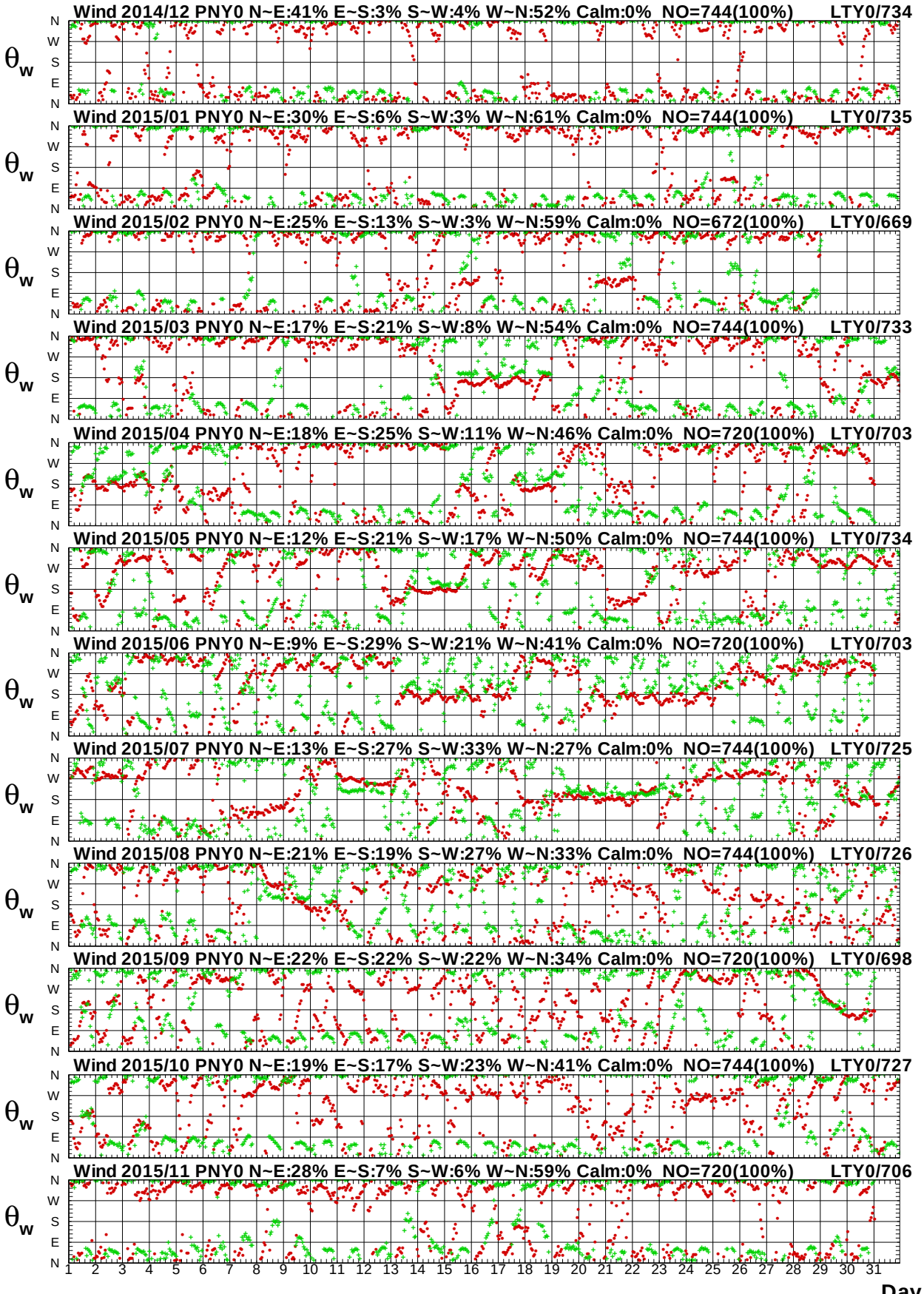

圖6.13b　2015年每月屏東海域 Y 站與臺東海域 Y 站風向圖

Wind Speed in Peng-Tung Seas of PNY0 at 2015

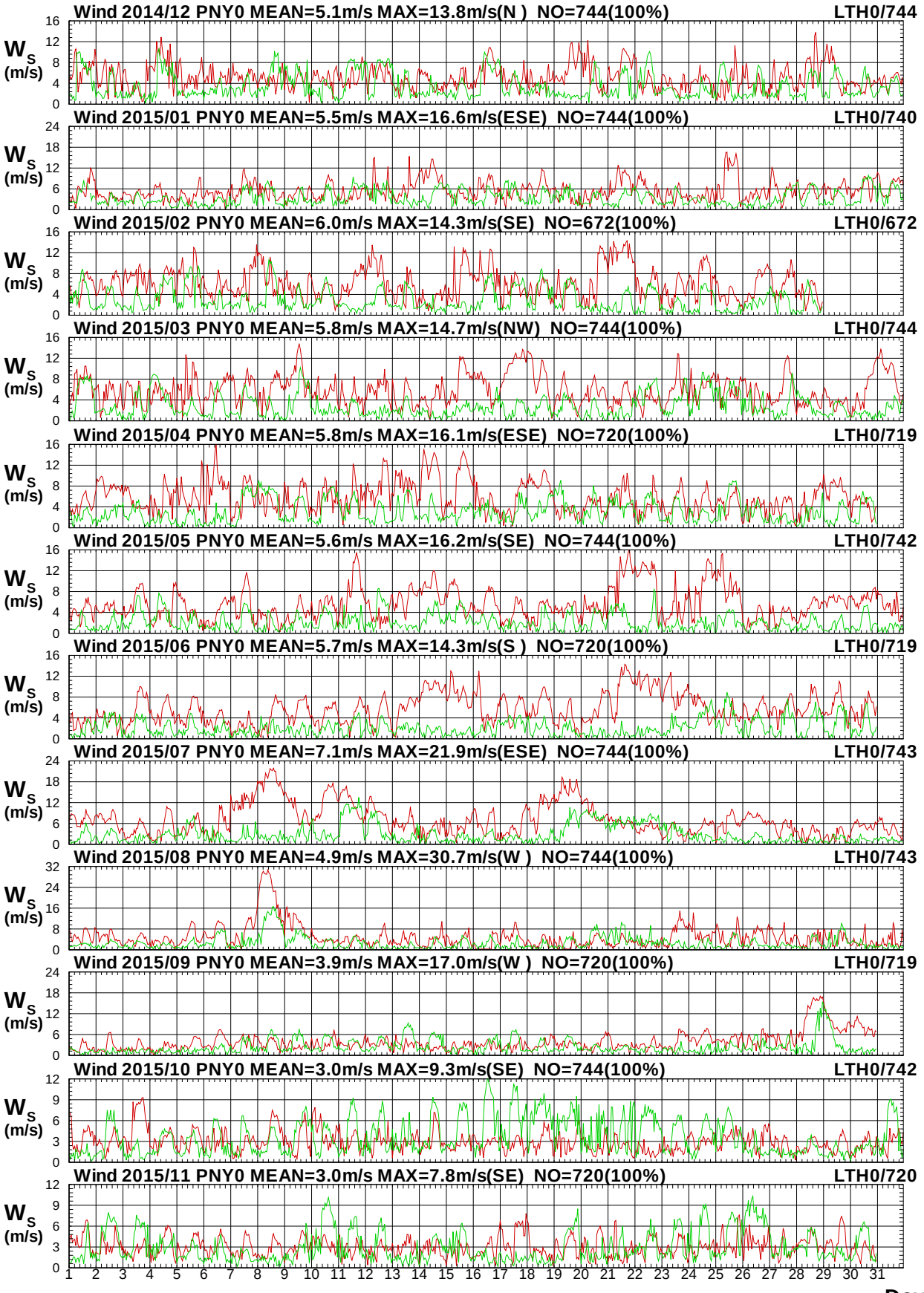

圖6.14a　2015年每月屏東海域 Y 站與臺東海域 H 站風速圖

W14CPNY0.1HA W14CLTH0.1H0 W151PNY0.1HA W151LTH0.1H0 W152PNY0.1HA W152LTH0.1H0
W153PNY0.1HA W153LTH0.1H0 W154PNY0.1HA W154LTH0.1H0 W155PNY0.1HA W155LTH0.1H0

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Wind Direction in Peng-Tung Seas of PNY0 at 2015

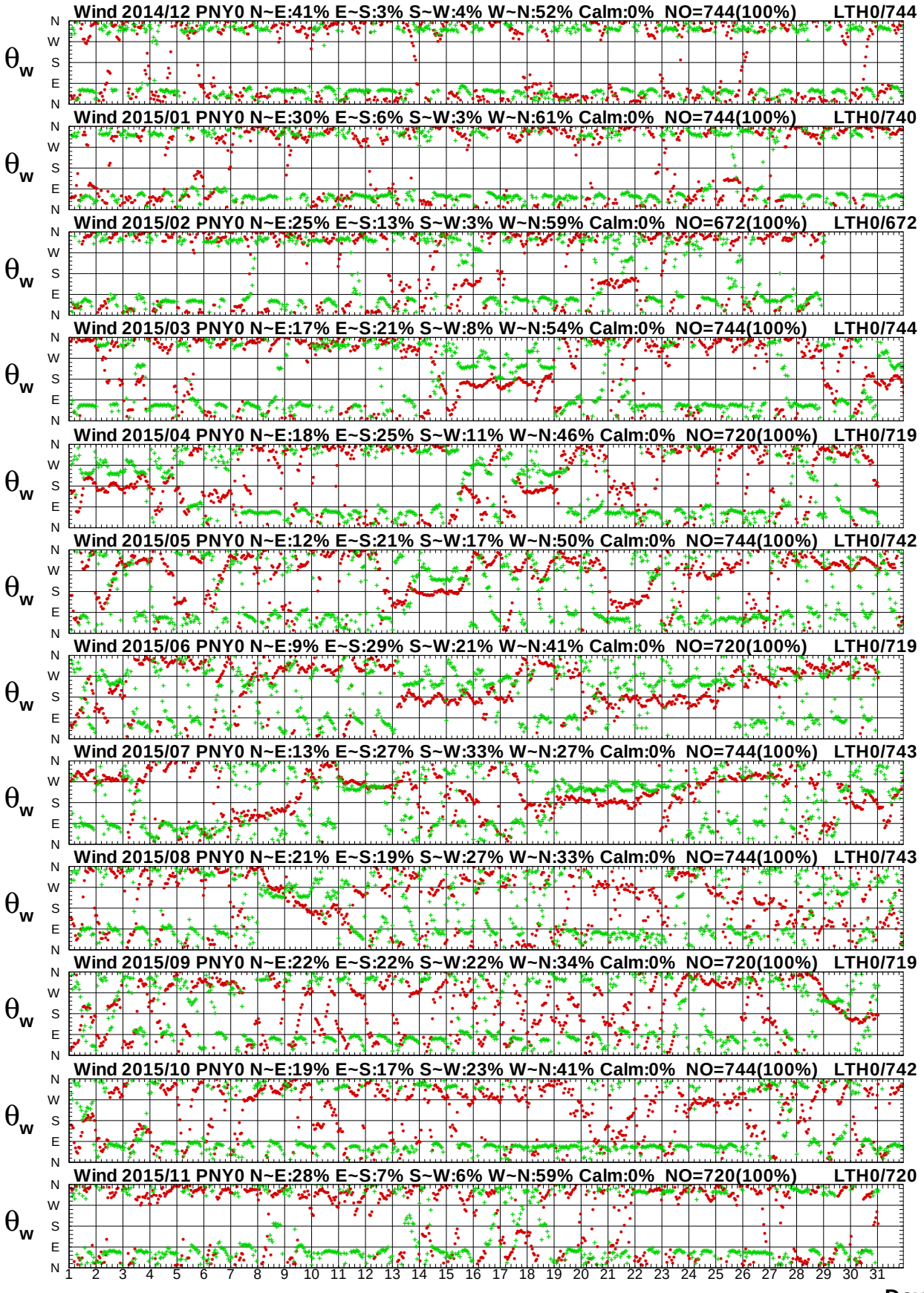

圖6.14b　2015年每月屏東海域 Y 站與臺東海域 H 站風向圖

Wind Speed in Peng-Tung Seas of PNY0 at 2015

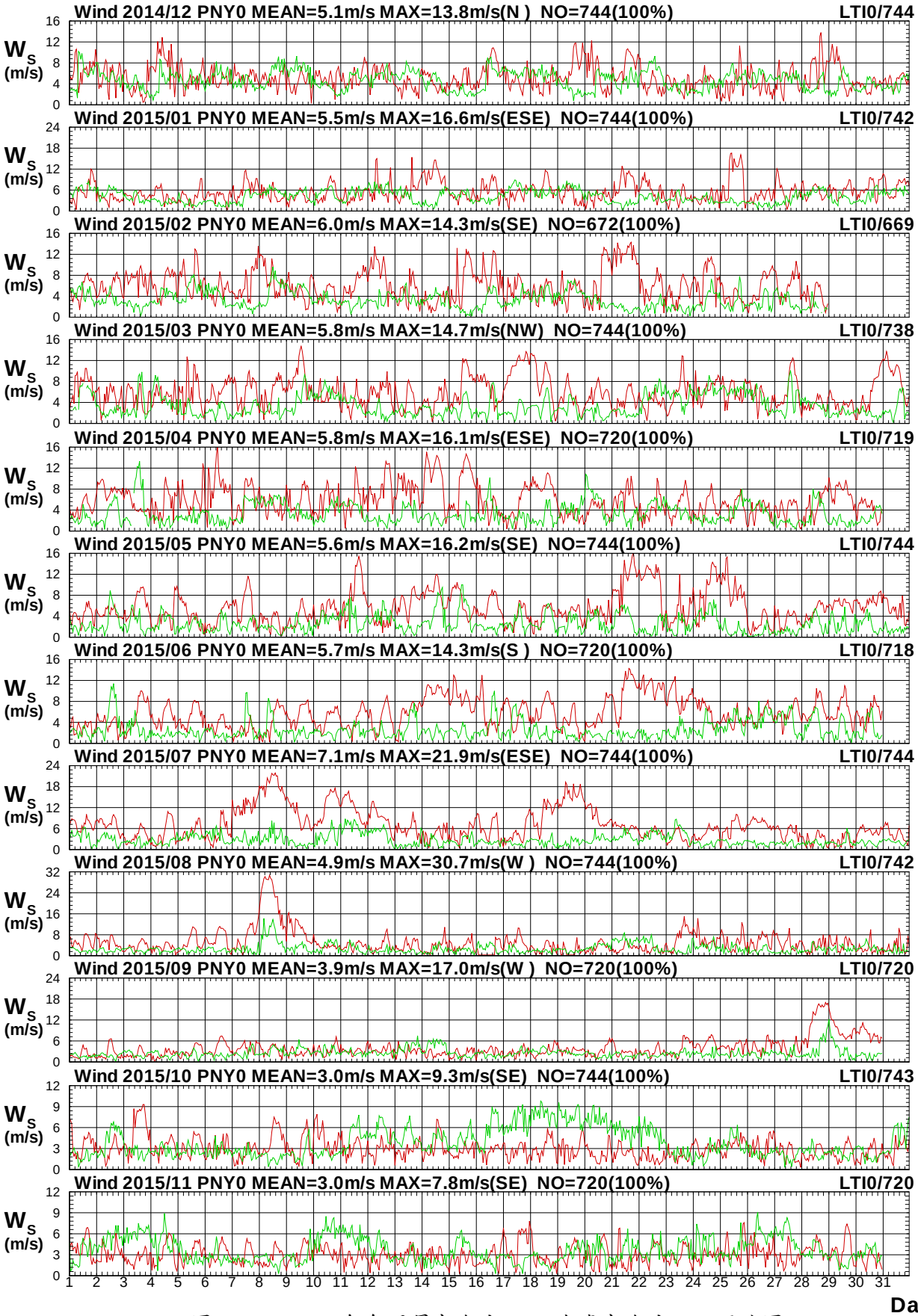

圖6.15a　2015年每月屏東海域 Y 站與臺東海域 I 站風速圖

W14CPNY0.1HA W14CLTI0.1H0 W151PNY0.1HA W151LTI0.1H0 W152PNY0.1HA W152LTI0.1H0
W153PNY0.1HA W153LTI0.1H0 W154PNY0.1HA W154LTI0.1H0 W155PNY0.1HA W155LTI0.1H0

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Wind Direction in Peng-Tung Seas of PNY0 at 2015

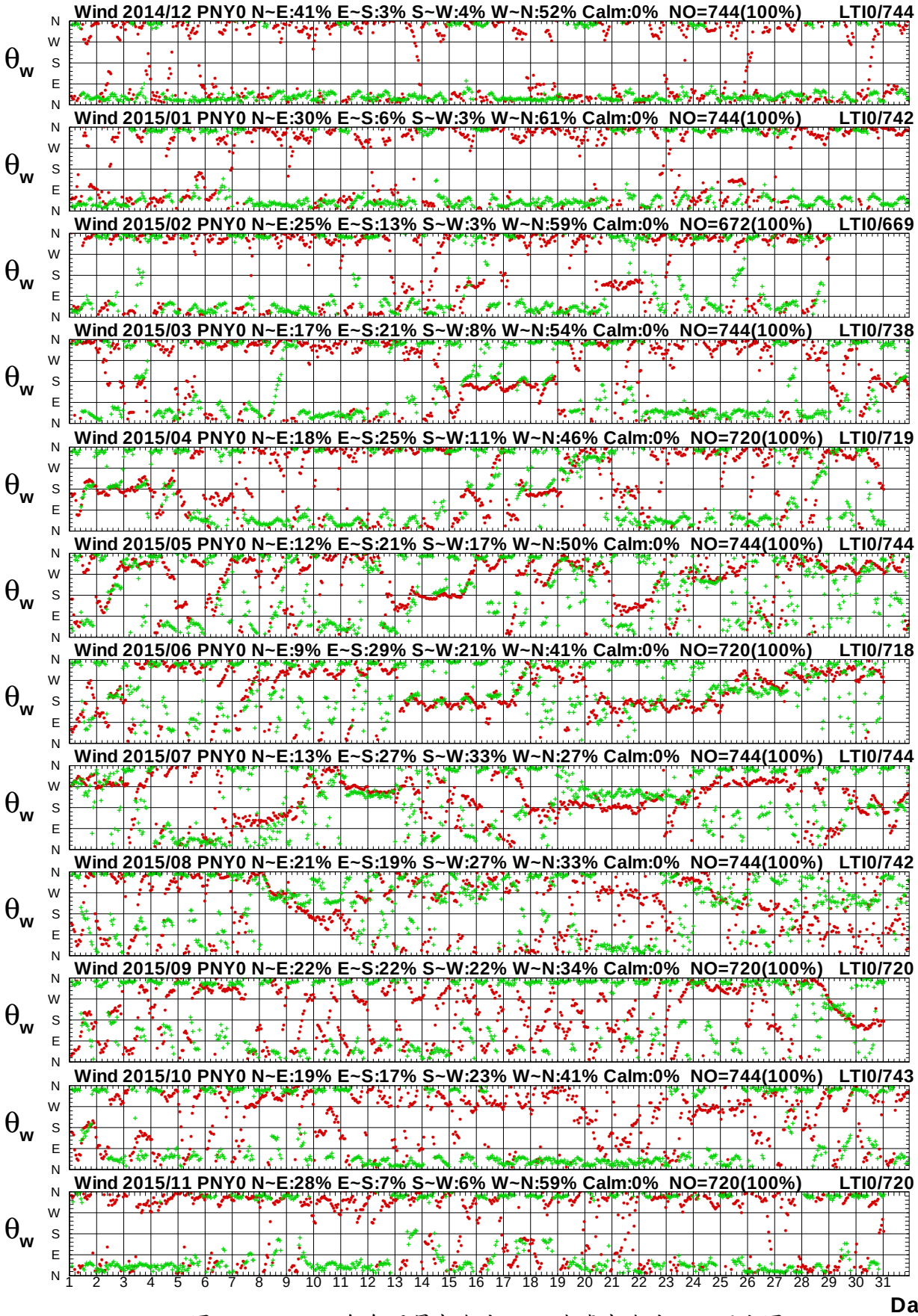

圖6.15b　2015年每月屏東海域Y站與臺東海域I站風向圖

W14CPNY0.1HA W14CLTI0.1H0 W151PNY0.1HA W151LTI0.1H0 W152PNY0.1HA W152LTI0.1H0
W153PNY0.1HA W153LTI0.1H0 W154PNY0.1HA W154LTI0.1H0 W155PNY0.1HA W155LTI0.1H0

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Wind Speed in Peng-Tung Seas of PNY0 at 2015

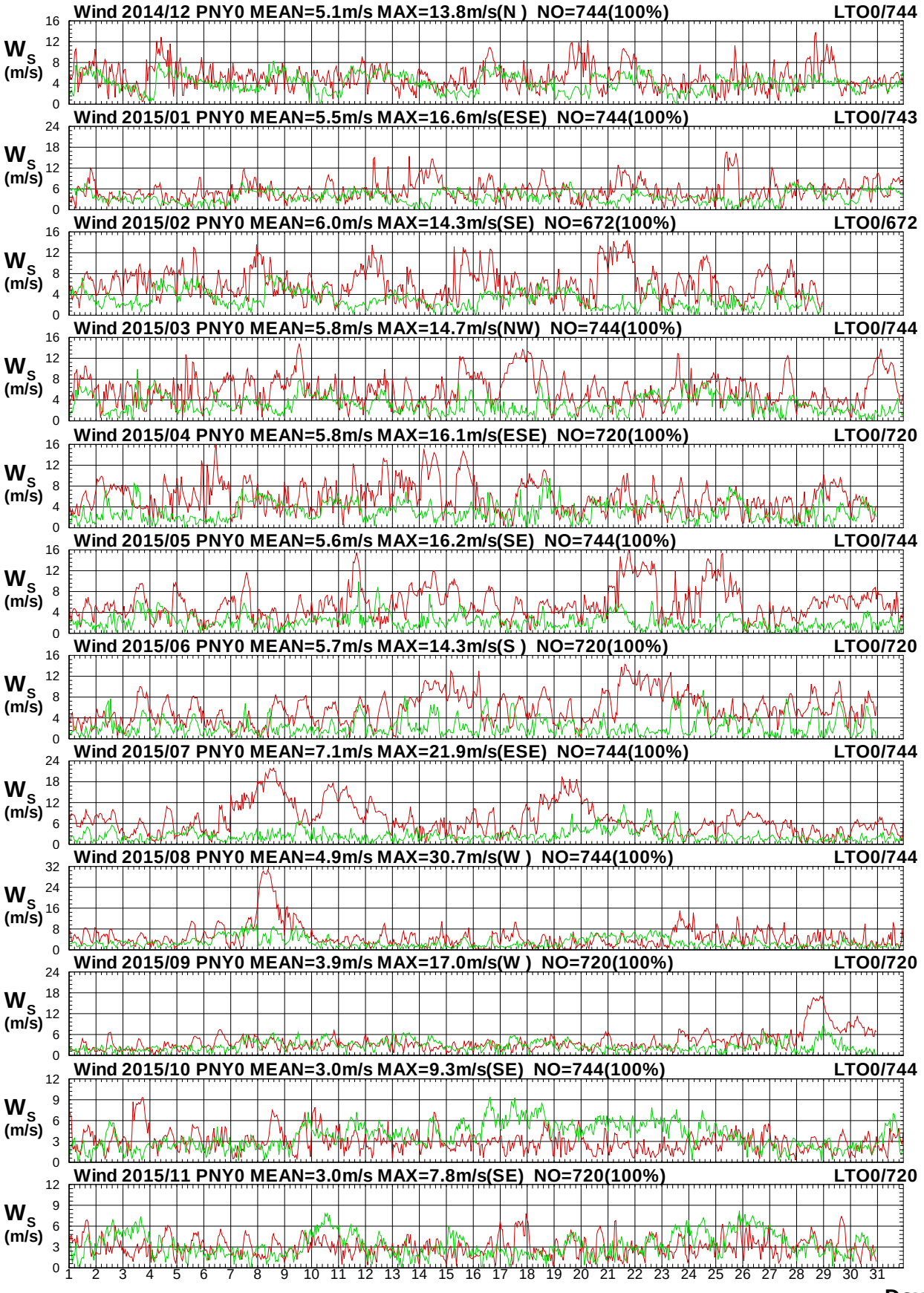

圖6.16a　2015年每月屏東海域 Y 站與臺東海域 O 站風速圖

W14CPNY0.1HA W14CLTO0.1H0 W151PNY0.1HA W151LTO0.1H0 W152PNY0.1HA W152LTO0.1H0
W153PNY0.1HA W153LTO0.1H0 W154PNY0.1HA W154LTO0.1H0 W155PNY0.1HA W155LTO0.1H0

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Wind Direction in Peng-Tung Seas of PNY0 at 2015

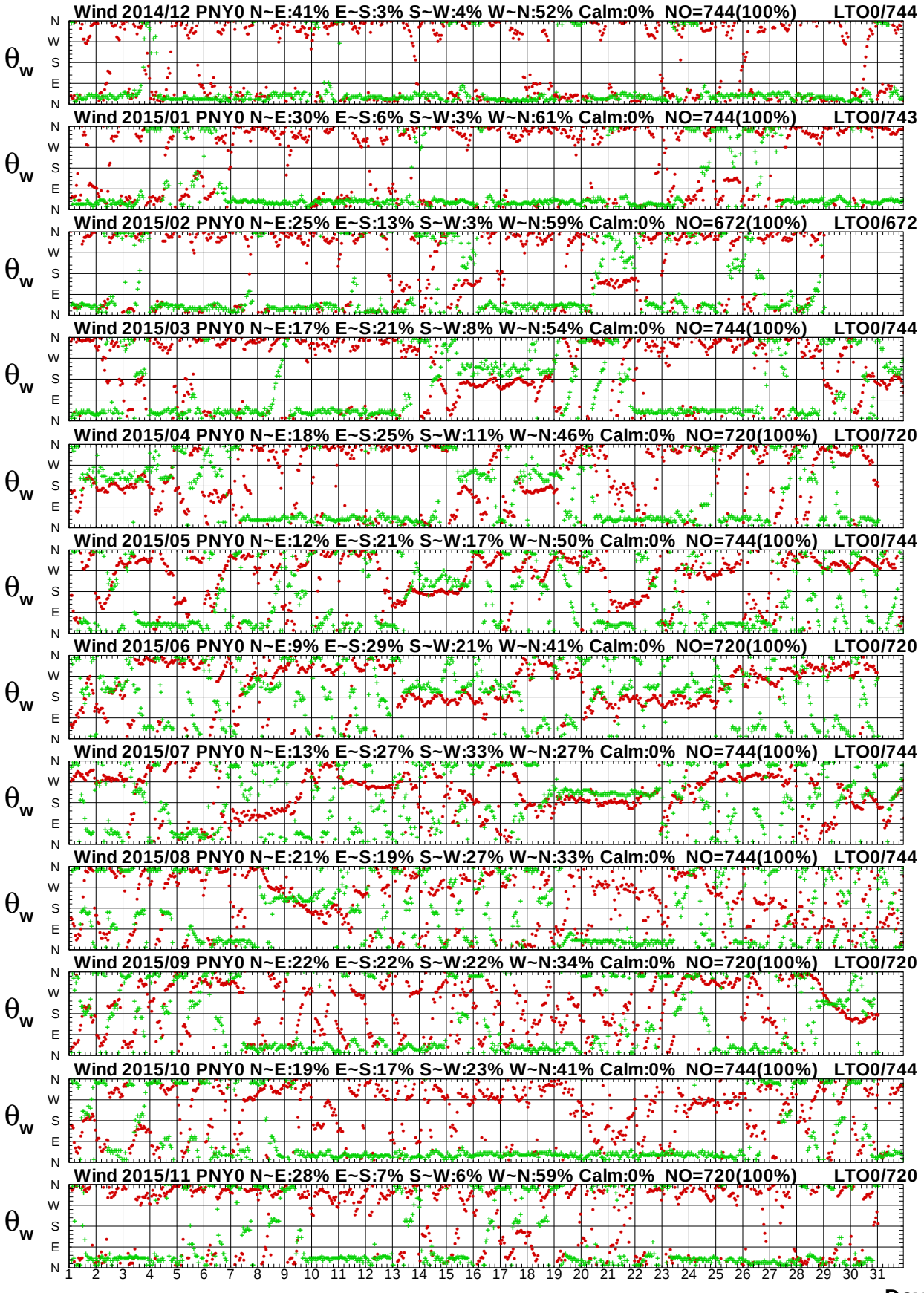

圖6.16b　2015年每月屏東海域 Y 站與臺東海域 O 站風向圖

W14CPNY0.1HA W14CLTO0.1H0 W151PNY0.1HA W151LTO0.1H0 W152PNY0.1HA W152LTO0.1H0
W153PNY0.1HA W153LTO0.1H0 W154PNY0.1HA W154LTO0.1H0 W155PNY0.1HA W155LTO0.1H0

Institute of Harbor & Marine Technology

Wind Speed in Peng-Tung Seas of PNY0 at 2015

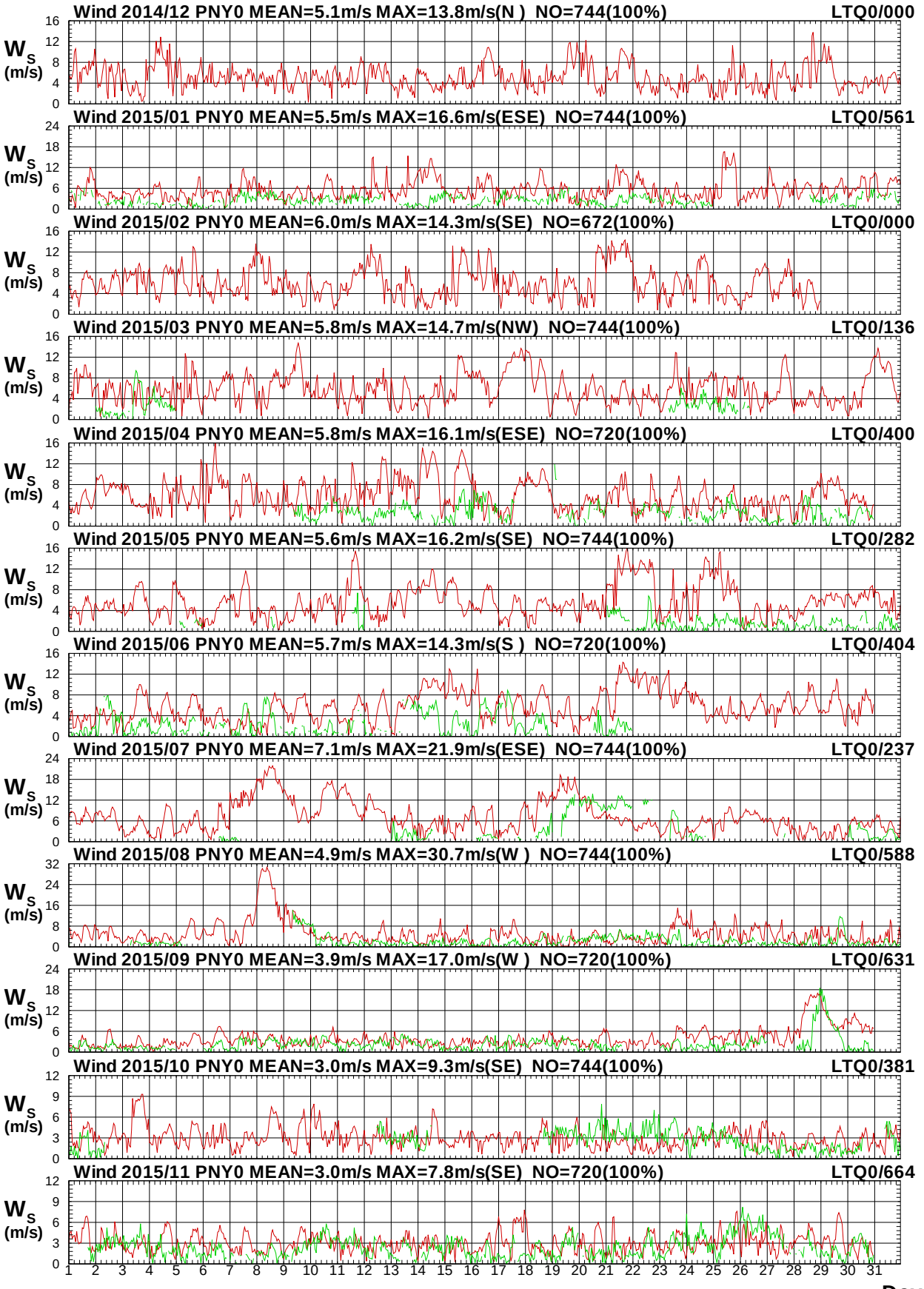

圖6.17a　2015年每月屏東海域 Y 站與臺東海域 Q 站風速圖

W14CPNY0.1HA W14CLTQ0.1H0 W151PNY0.1HA W151LTQ0.1H0 W152PNY0.1HA W152LTQ0.1H0
W153PNY0.1HA W153LTQ0.1H0 W154PNY0.1HA W154LTQ0.1H0 W155PNY0.1HA W155LTQ0.1H0

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Wind Direction in Peng-Tung Seas of PNY0 at 2015

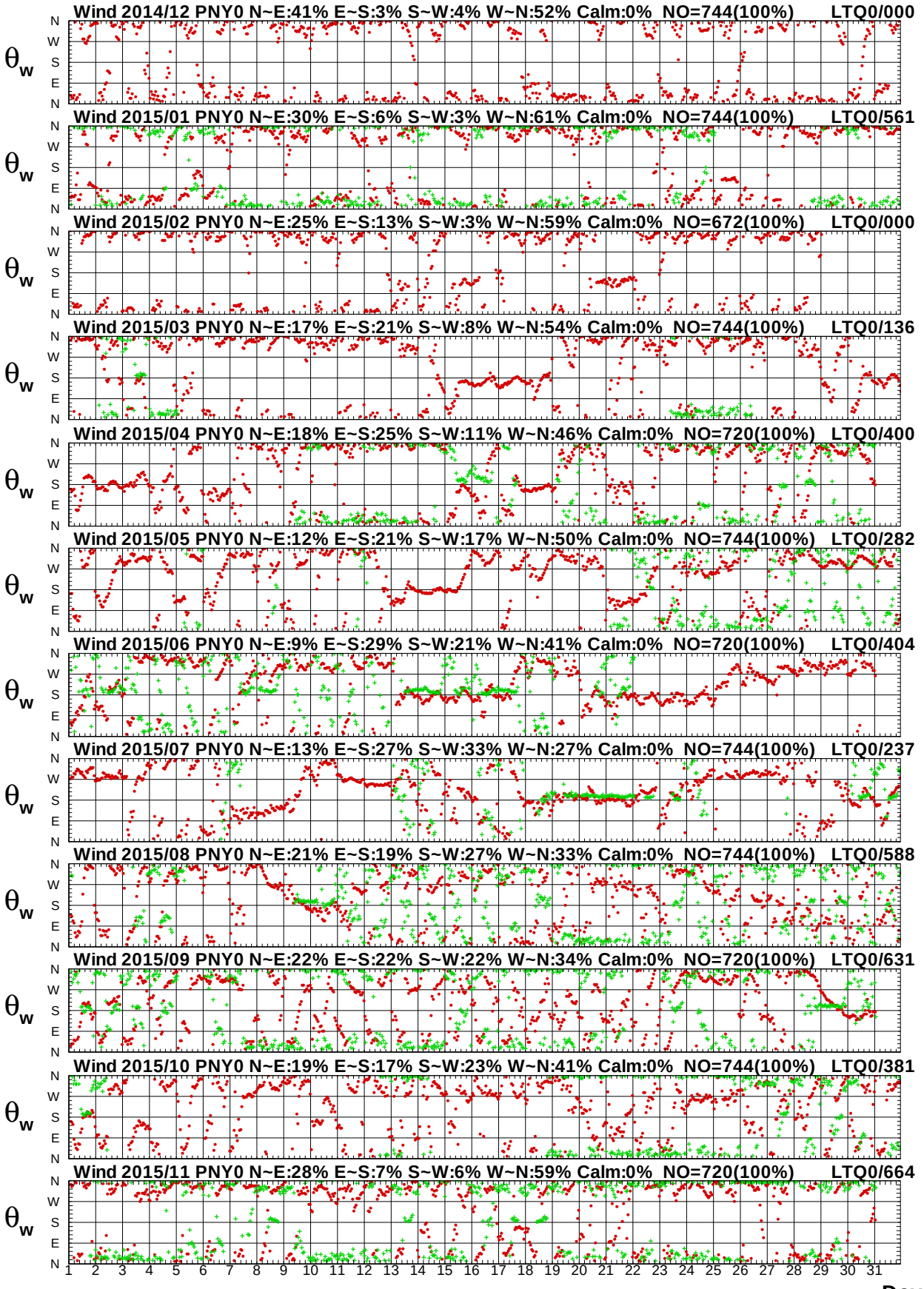

圖6.17b　2015年每月屏東海域 Y 站與臺東海域 Q 站風向圖

Wind Speed in Peng-Tung Seas of PNY0 at 2015

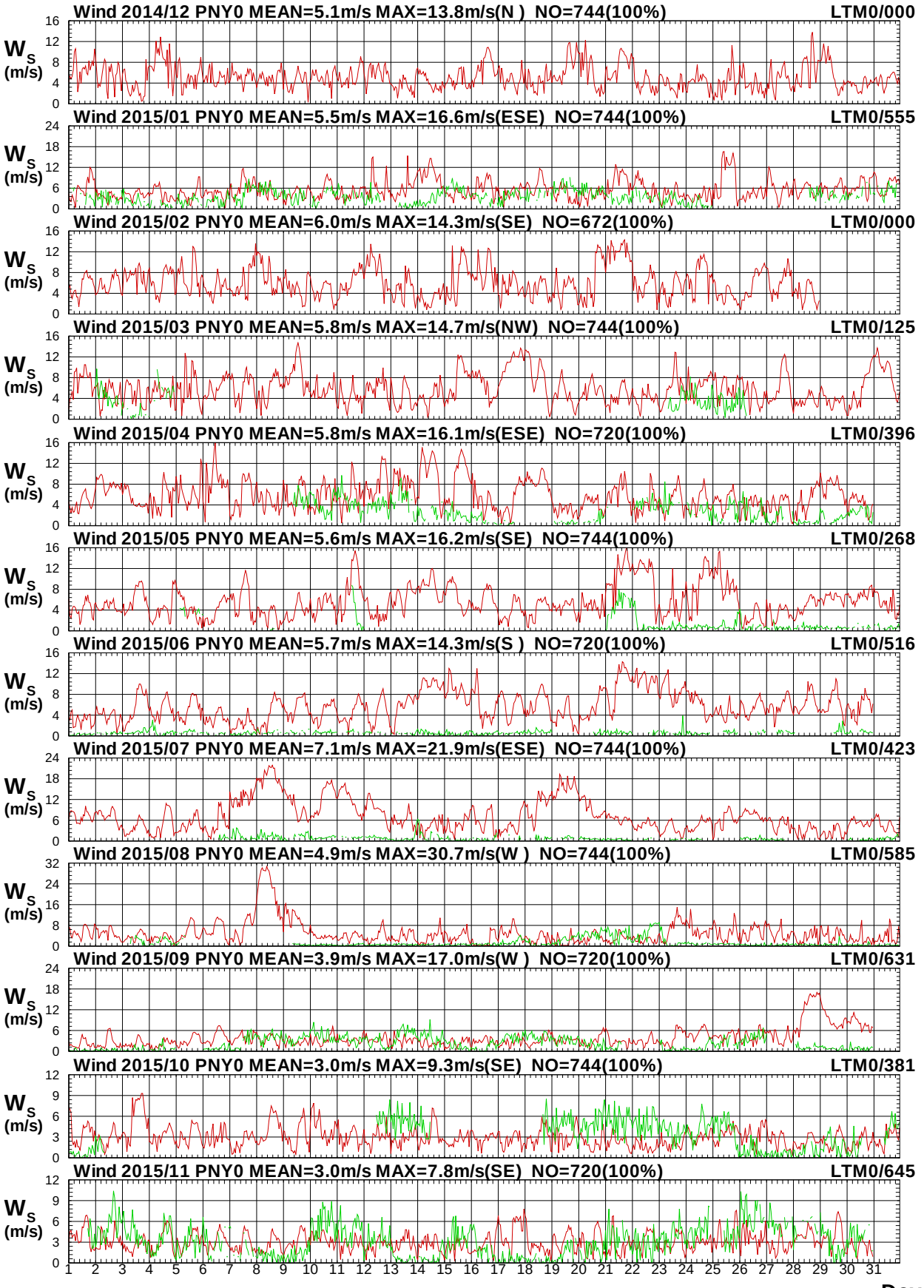

圖6.18a　2015年每月屏東海域 Y 站與臺東海域 M 站風速圖

Wind Direction in Peng-Tung Seas of PNY0 at 2015

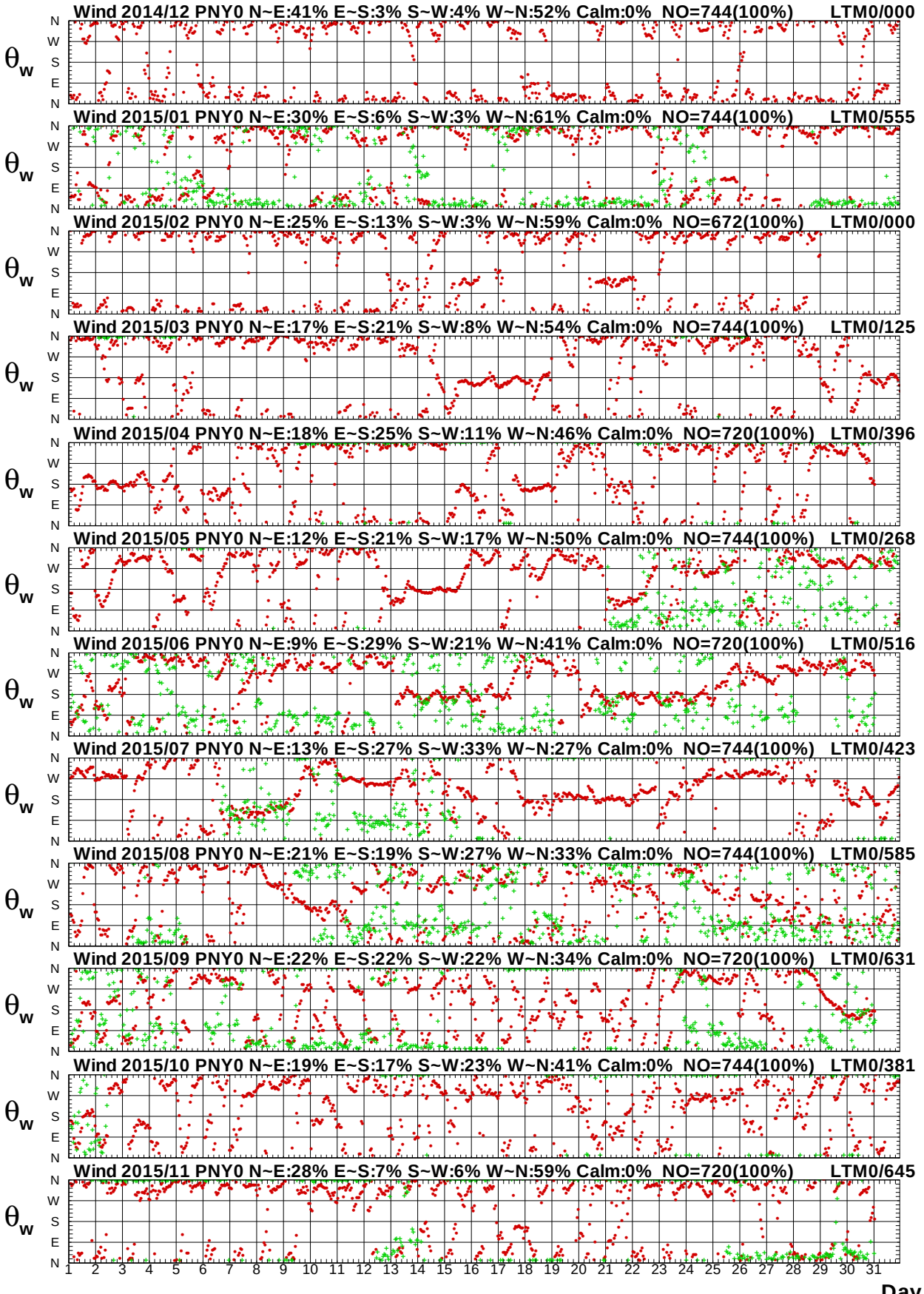

圖6.18b　2015年每月屏東海域 Y 站與臺東海域 M 站風向圖

W14CPNY0.1HA W14CLTM0.1H0 W151PNY0.1HA W151LTM0.1H0 W152PNY0.1HA W152LTM0.1H0
W153PNY0.1HA W153LTM0.1H0 W154PNY0.1HA W154LTM0.1H0 W155PNY0.1HA W155LTM0.1H0

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Wind Speed in Peng-Tung Seas of PNY0 at 2015

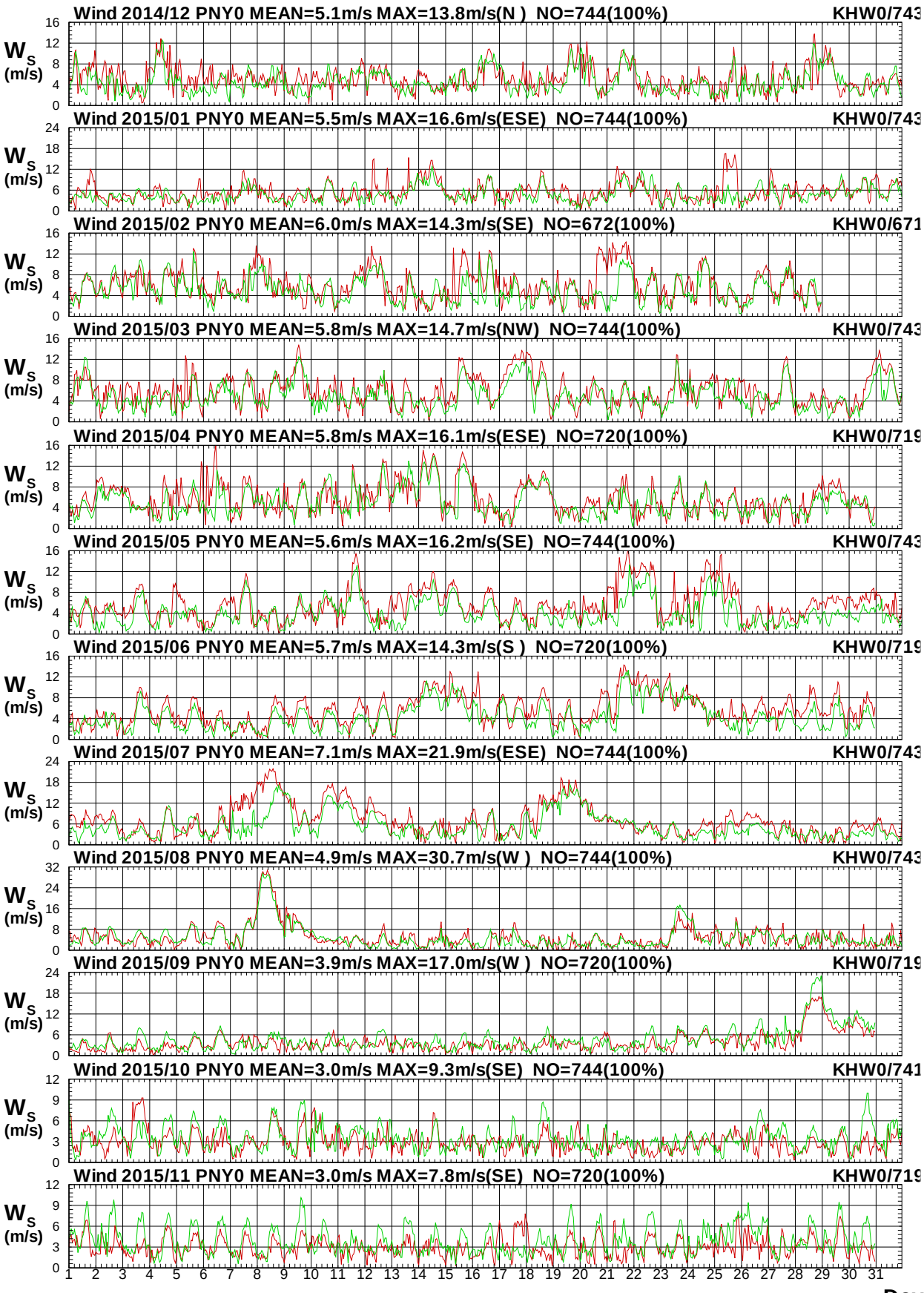

圖6.19a　2015年每月屏東海域 Y 站與高雄海域 W 站風速圖

W14CPNY0.1HA W14CKHW0.1H0 W151PNY0.1HA W151KHW0.1H0 W152PNY0.1HA W152KHW0.1H0
W153PNY0.1HA W153KHW0.1H0 W154PNY0.1HA W154KHW0.1H0 W155PNY0.1HA W155KHW0.1H0

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Wind Direction in Peng-Tung Seas of PNY0 at 2015

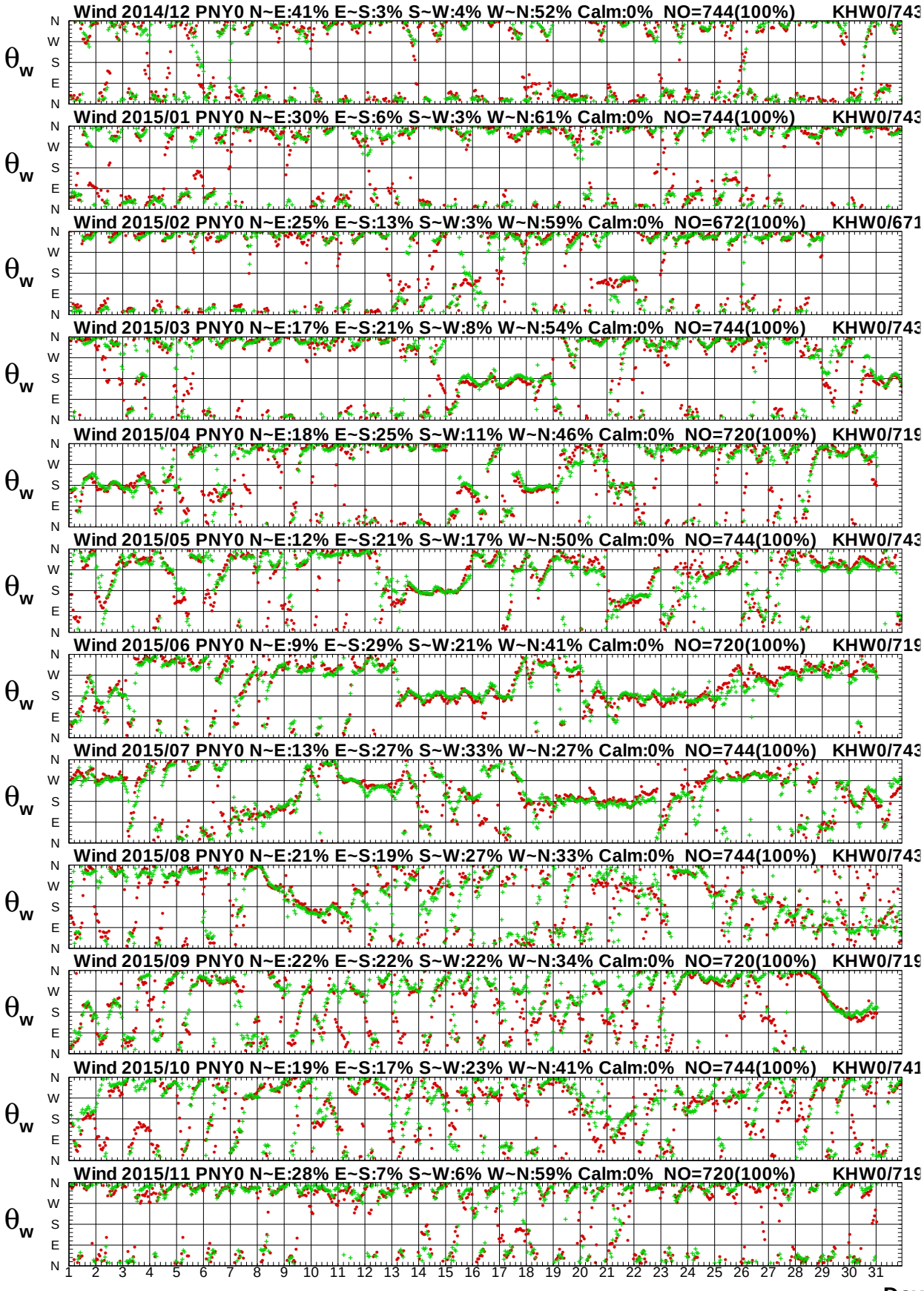

圖 6.19b　2015年每月屏東海域 Y 站與高雄海域 W 站風向圖

Wind Speed in Peng-Tung Seas of PNY0 at 2015

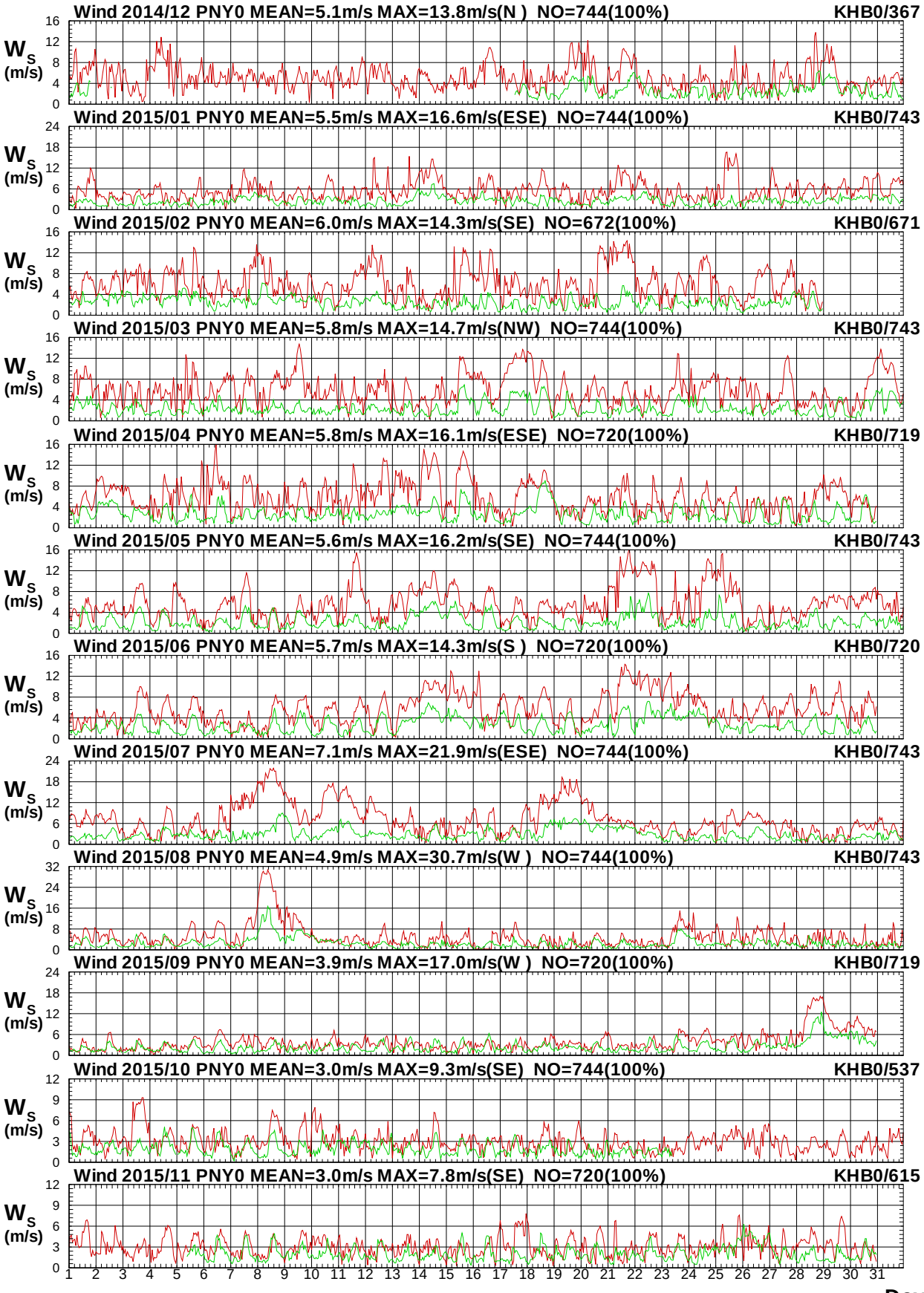

圖6.20a　2015年每月屏東海域 Y 站與高雄海域 B 站風速圖

W14CPNY0.1HA W14CKHB0.1H0 W151PNY0.1HA W151KHB0.1H0 W152PNY0.1HA W152KHB0.1H0
W153PNY0.1HA W153KHB0.1H0 W154PNY0.1HA W154KHB0.1H0 W155PNY0.1HA W155KHB0.1H0

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Wind Direction in Peng-Tung Seas of PNY0 at 2015

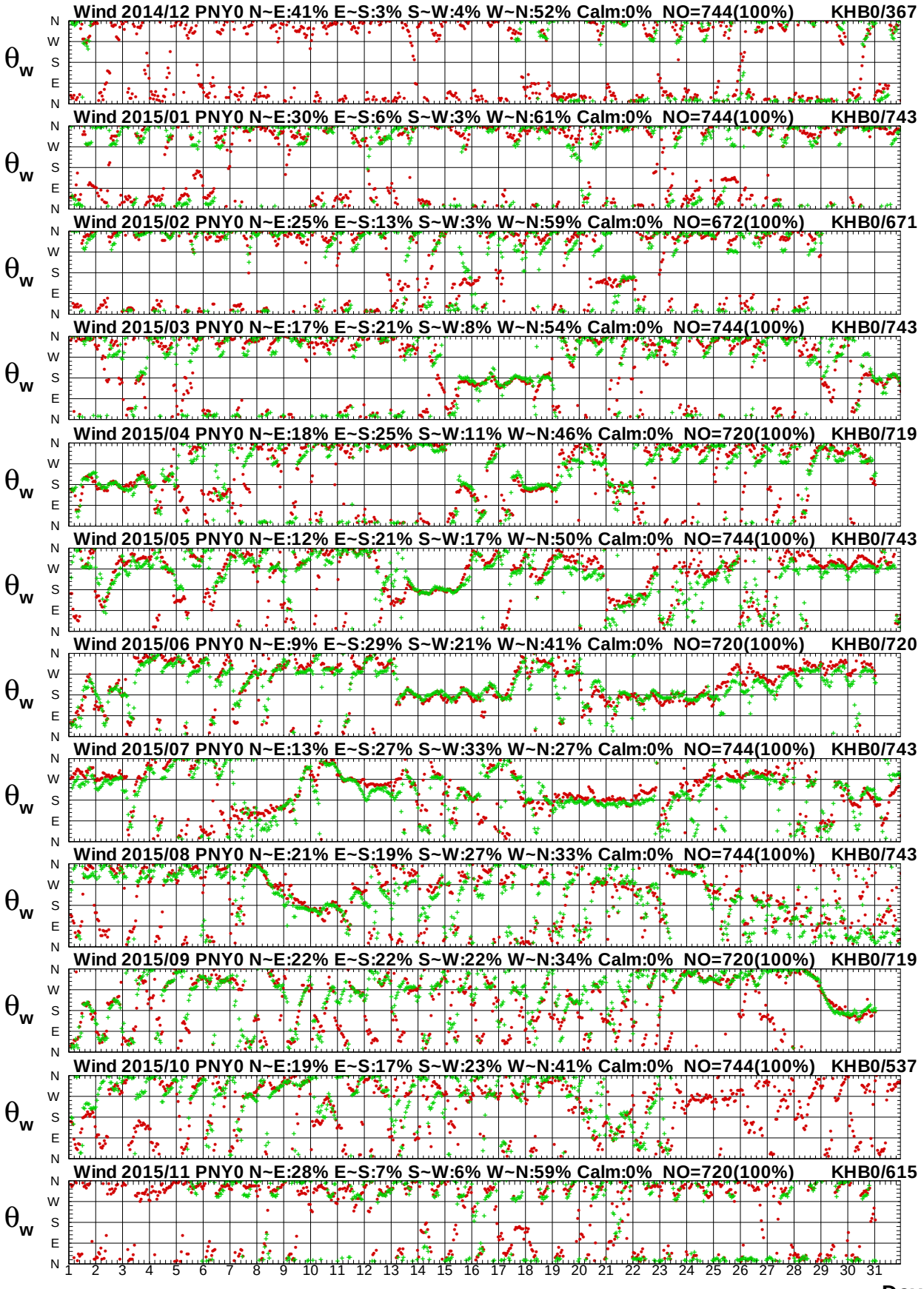

圖6.20b　2015年每月屏東海域 Y 站與高雄海域 B 站風向圖

W14CPNY0.1HA W14CKHB0.1H0 W151PNY0.1HA W151KHB0.1H0 W152PNY0.1HA W152KHB0.1H0
W153PNY0.1HA W153KHB0.1H0 W154PNY0.1HA W154KHB0.1H0 W155PNY0.1HA W155KHB0.1H0

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Wind Speed in Peng-Tung Seas of PNY0 at 2015

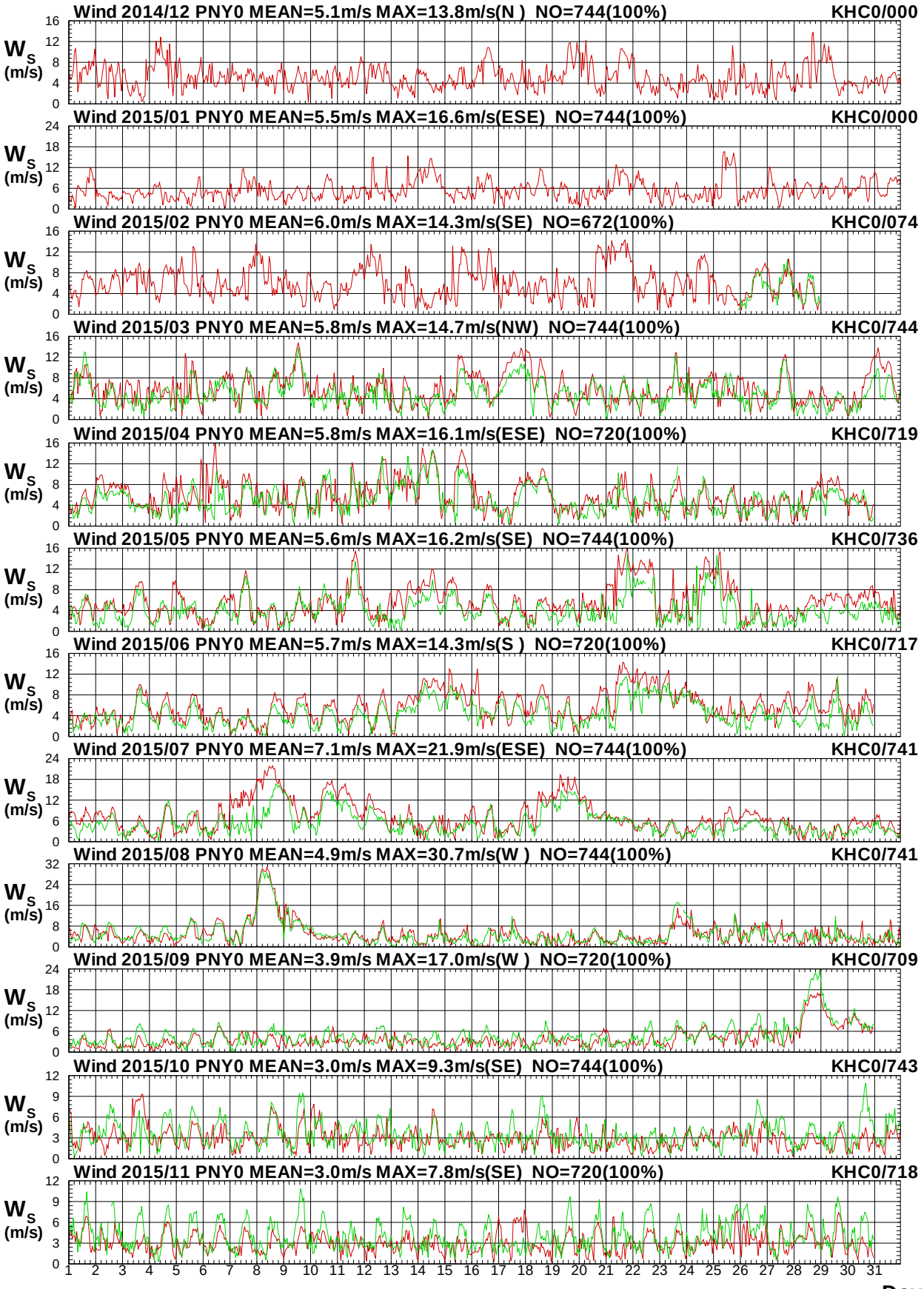

圖6.21a　2015年每月屏東海域 Y 站與高雄海域 C 站風速圖

W14CPNY0.1HA W14CKHC0.1H0 W151PNY0.1HA W151KHC0.1H0 W152PNY0.1HA W152KHC0.1H0
W153PNY0.1HA W153KHC0.1H0 W154PNY0.1HA W154KHC0.1H0 W155PNY0.1HA W155KHC0.1H0

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Wind Direction in Peng-Tung Seas of PNY0 at 2015

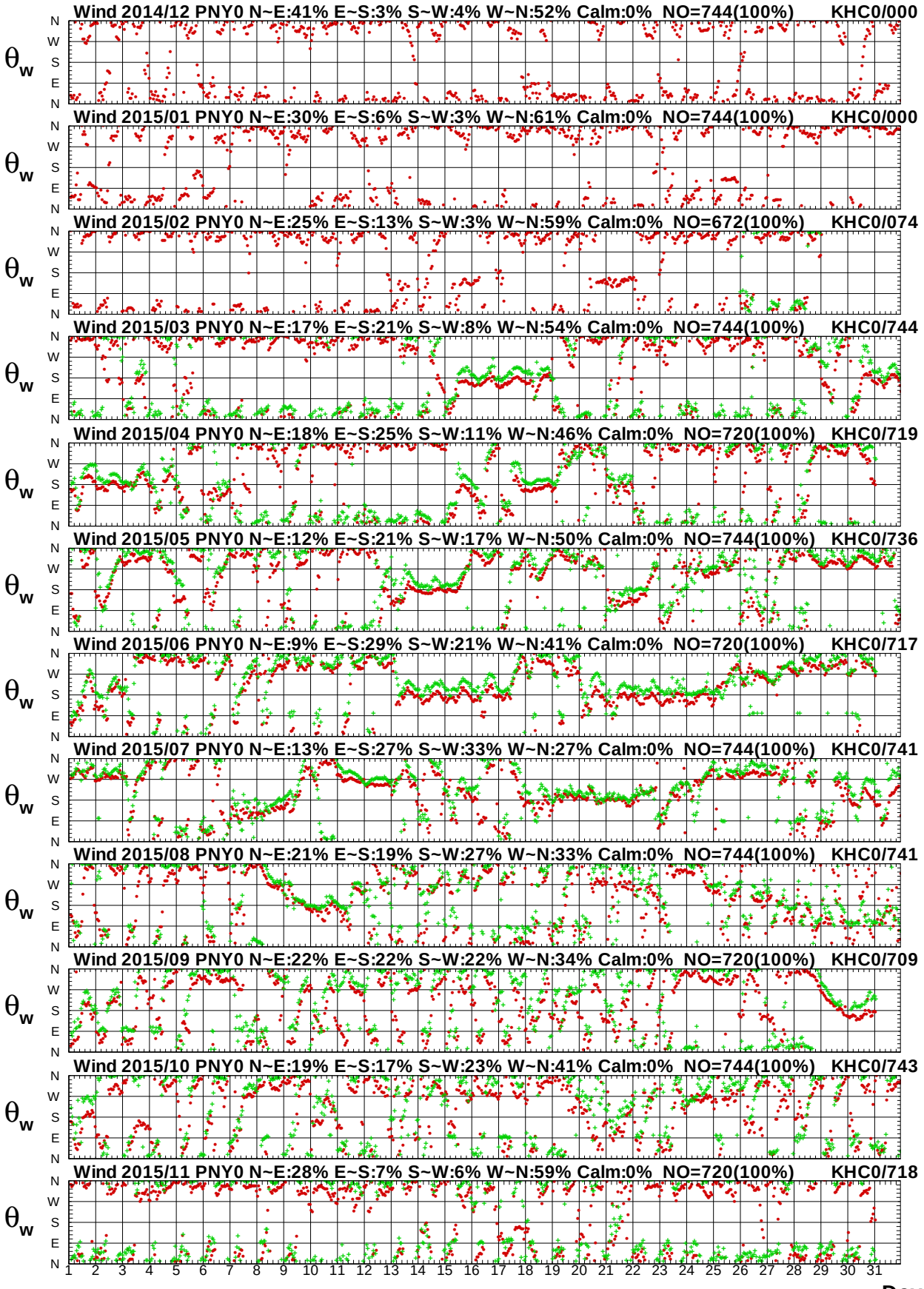

圖6.21b　2015年每月屏東海域 Y 站與高雄海域 C 站風向圖

W14CPNY0.1HA W14CKHC0.1H0 W151PNY0.1HA W151KHC0.1H0 W152PNY0.1HA W152KHC0.1H0
W153PNY0.1HA W153KHC0.1H0 W154PNY0.1HA W154KHC0.1H0 W155PNY0.1HA W155KHC0.1H0

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Wind Speed in Peng-Tung Seas of PNY0 at 2015

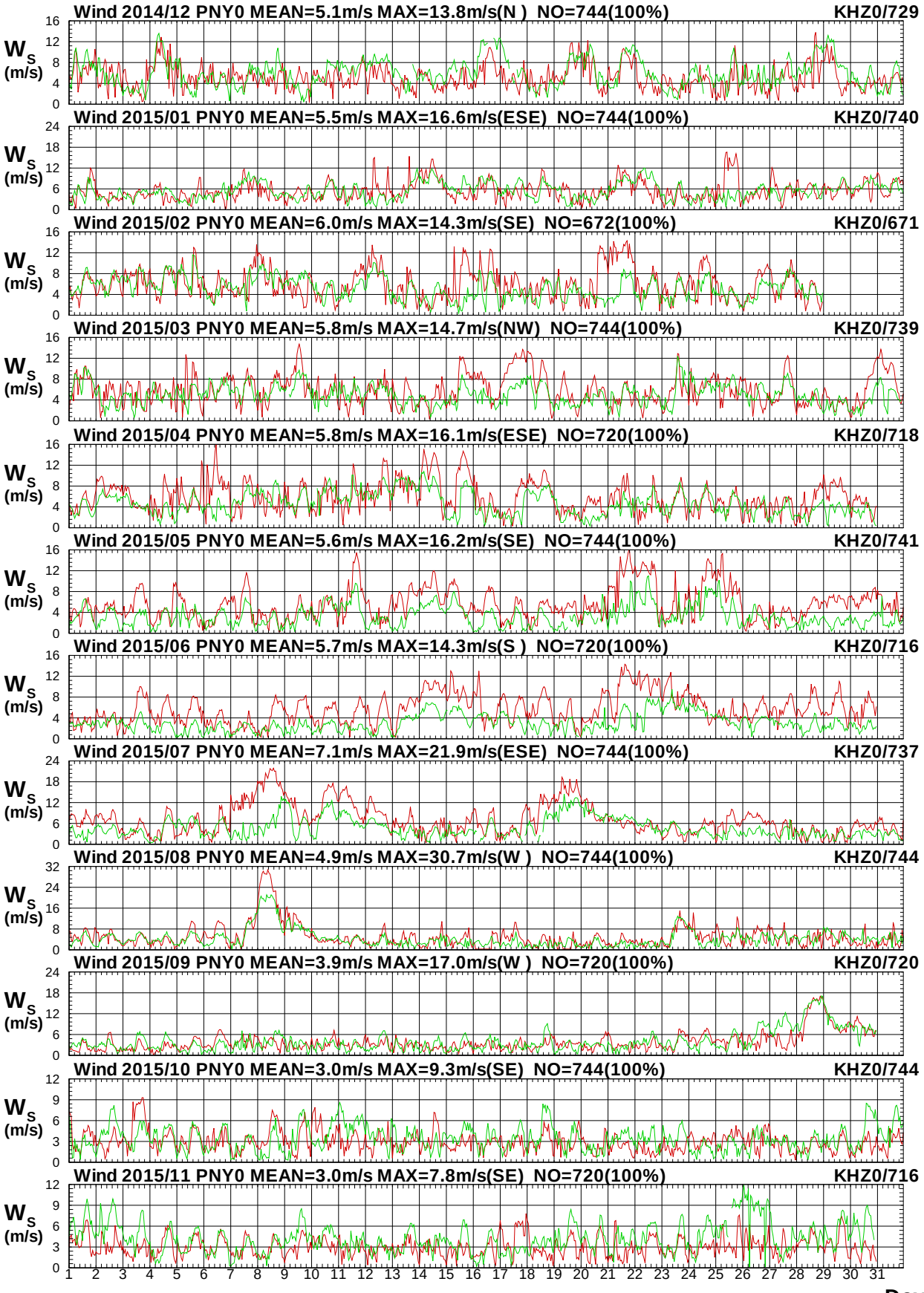

圖6.22a　2015年每月屏東海域 Y 站與高雄海域 Z 站風速圖

Wind Direction in Peng-Tung Seas of PNY0 at 2015

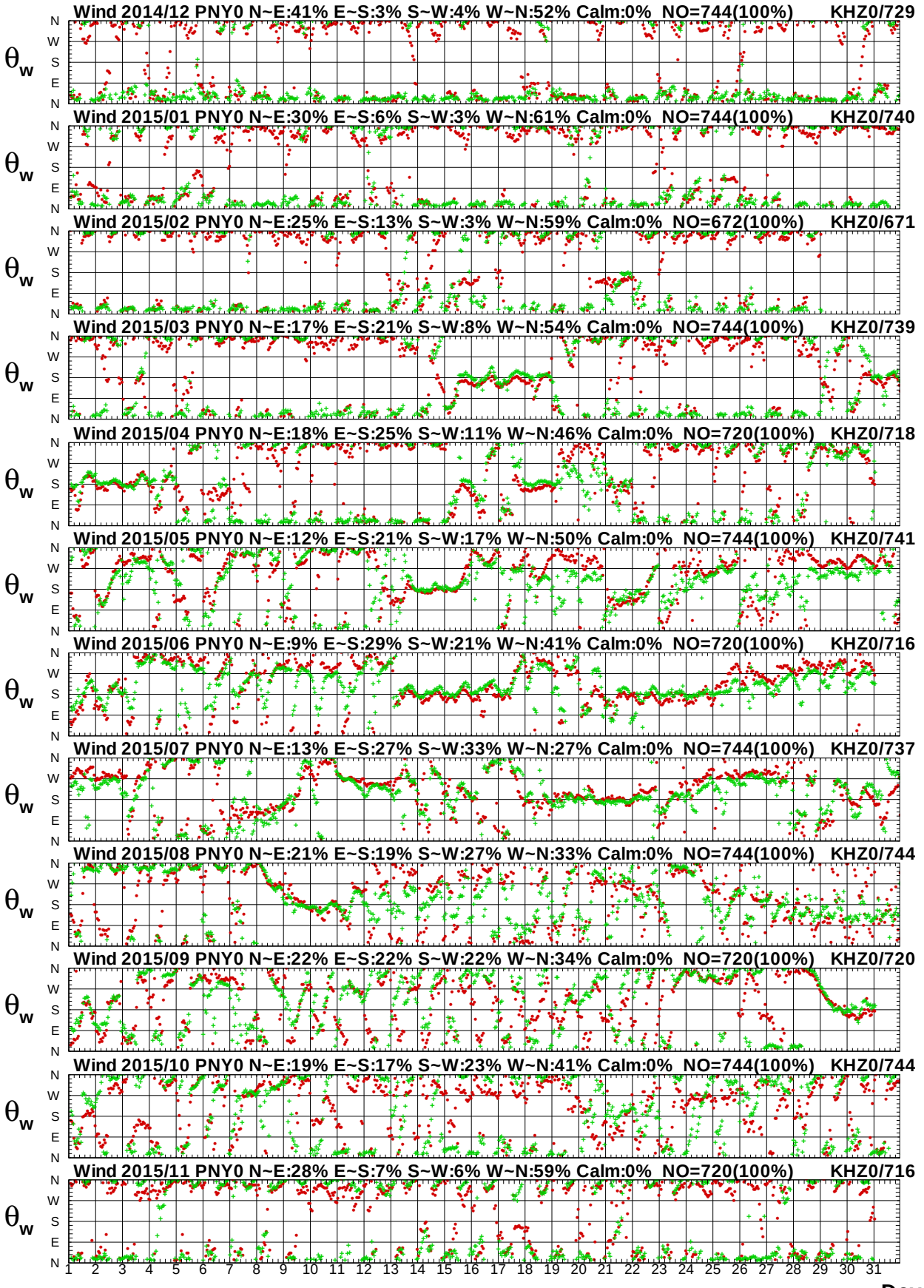

圖6.22b　2015年每月屏東海域 Y 站與高雄海域 Z 站風向圖

W14CPNY0.1HA W14CKHZ0.1H0 W151PNY0.1HA W151KHZ0.1H0 W152PNY0.1HA W152KHZ0.1H0
W153PNY0.1HA W153KHZ0.1H0 W154PNY0.1HA W154KHZ0.1H0 W155PNY0.1HA W155KHZ0.1H0

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Wind Speed in Peng-Tung Seas of PNY0 at 2015

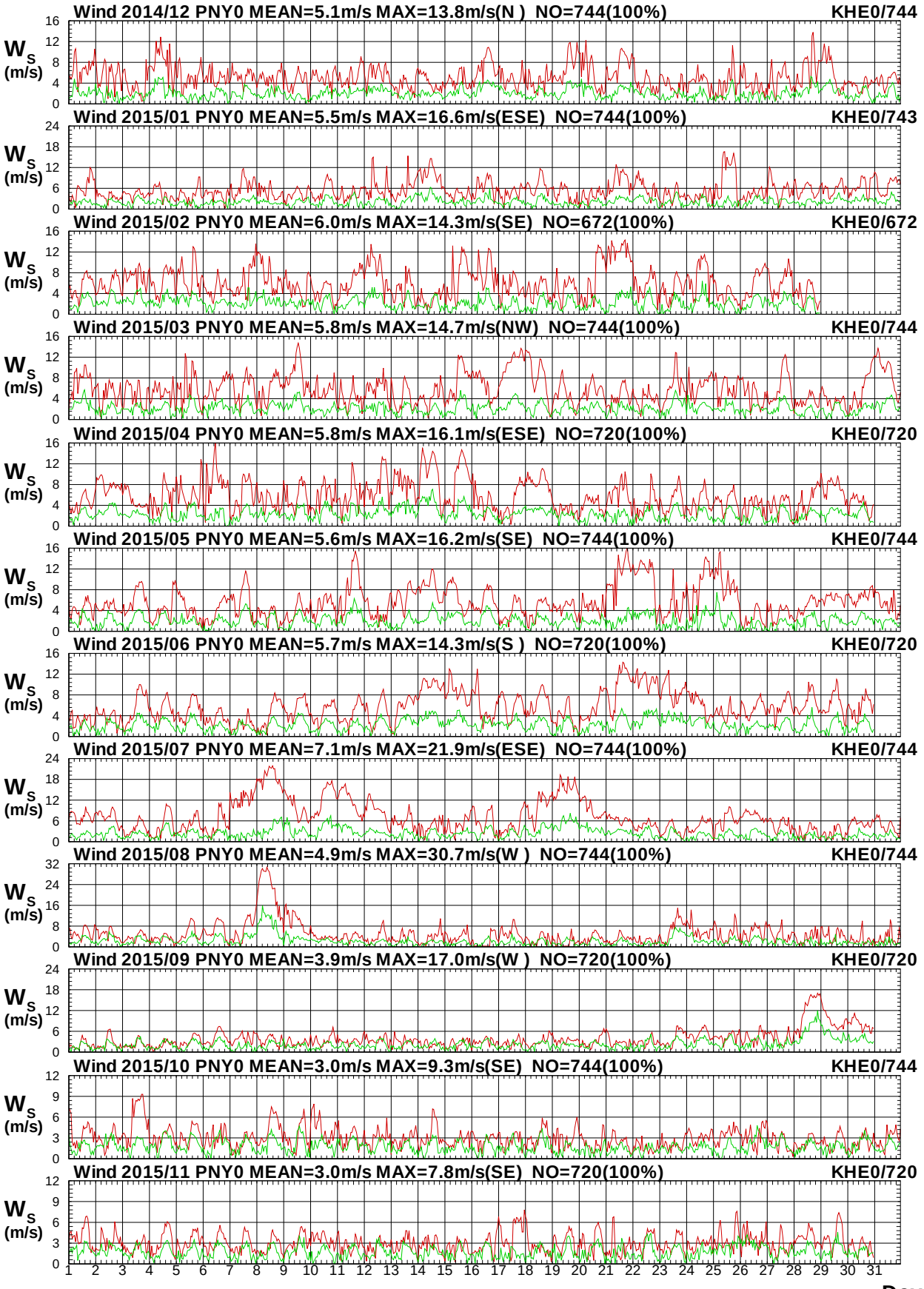

圖6.23a　2015年每月屏東海域 Y 站與高雄海域 E 站風速圖

W14CPNY0.1HA W14CKHE0.1H0 W151PNY0.1HA W151KHE0.1H0 W152PNY0.1HA W152KHE0.1H0
W153PNY0.1HA W153KHE0.1H0 W154PNY0.1HA W154KHE0.1H0 W155PNY0.1HA W155KHE0.1H0

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Wind Direction in Peng-Tung Seas of PNY0 at 2015

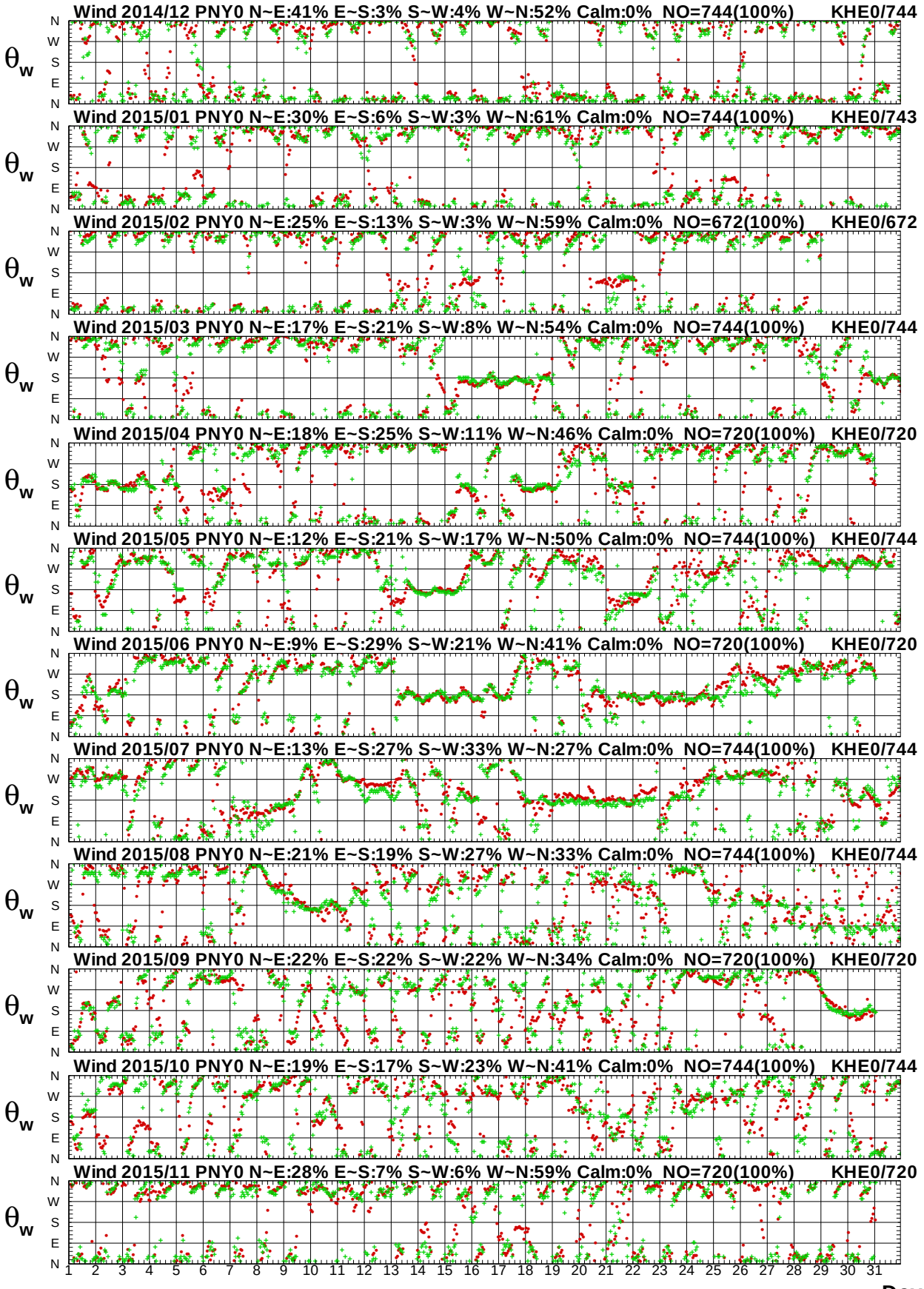

圖6.23b　2015年每月屏東海域 Y 站與高雄海域 E 站風向圖

Wind Speed in Peng-Tung Seas of PNY0 at 2015

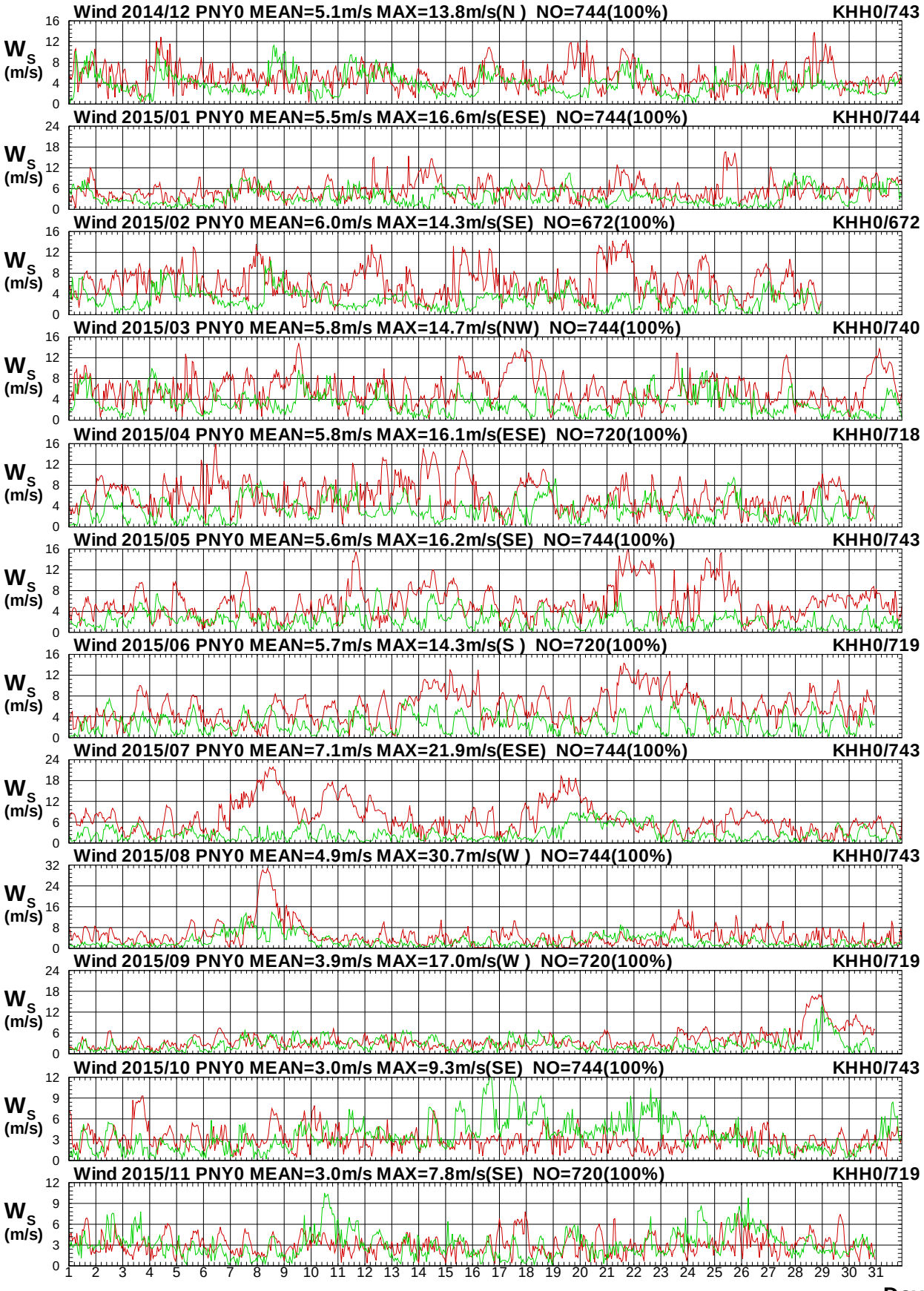

圖6.24a　2015年每月屏東海域 Y 站與高雄海域 H 站風速圖

W14CPNY0.1HA W14CKHH0.1H0 W151PNY0.1HA W151KHH0.1H0 W152PNY0.1HA W152KHH0.1H0
W153PNY0.1HA W153KHH0.1H0 W154PNY0.1HA W154KHH0.1H0 W155PNY0.1HA W155KHH0.1H0

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Wind Direction in Peng-Tung Seas of PNY0 at 2015

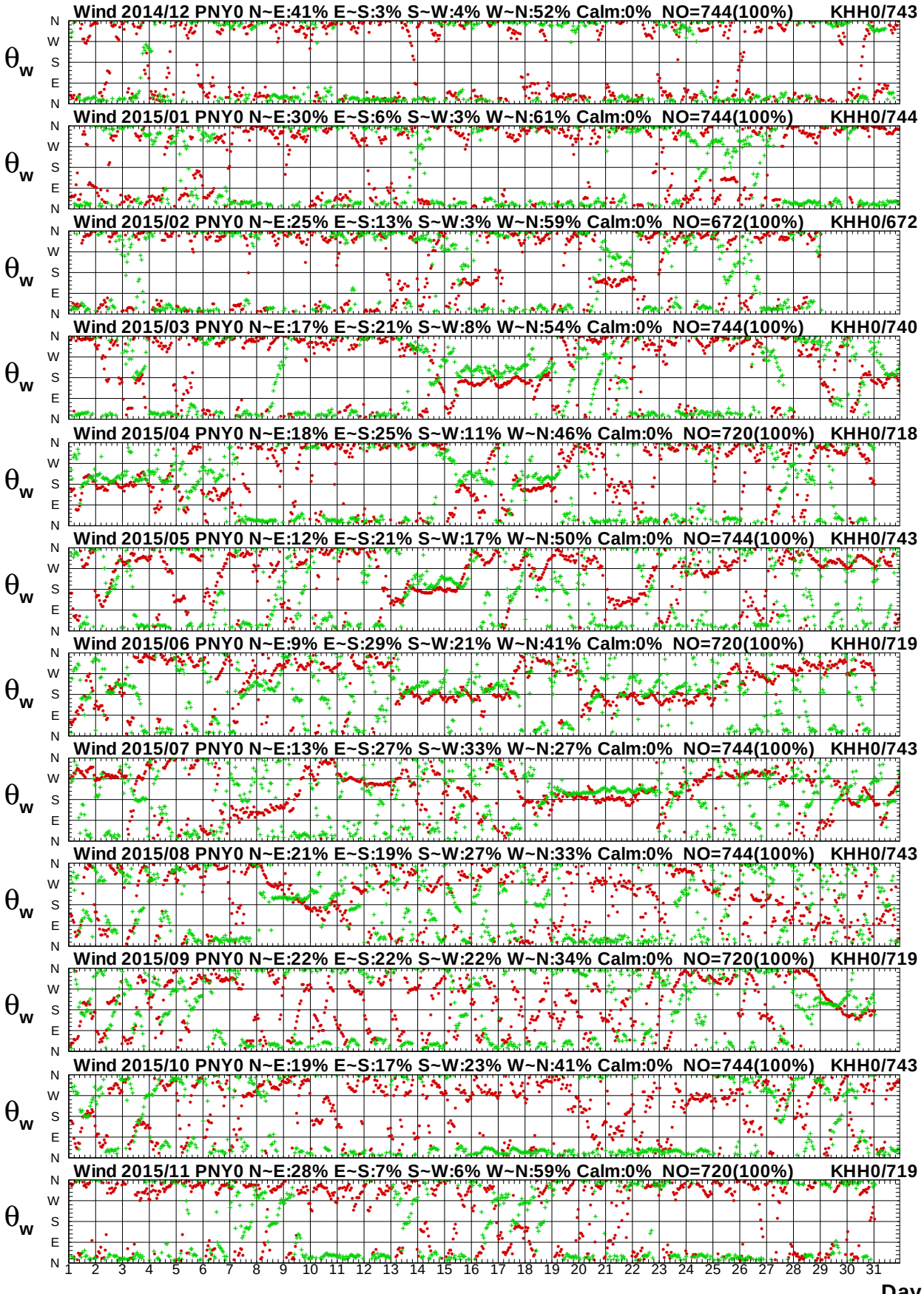

圖6.24b　2015年每月屏東海域 Y 站與高雄海域 H 站風向圖

W14CPNY0.1HA W14CKHH0.1H0 W151PNY0.1HA W151KHH0.1H0 W152PNY0.1HA W152KHH0.1H0
W153PNY0.1HA W153KHH0.1H0 W154PNY0.1HA W154KHH0.1H0 W155PNY0.1HA W155KHH0.1H0

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第七章　2015 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 7。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 7。

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)。

本風力年報以取經檢核或修補後之 **W 站**資料作為**主要觀測站**，2015 年主要觀測站修補前(後)每月觀測之風資料記錄期間統計表，如表 7.1a，2015 年風力**次要觀測站**資料(未補餘)記錄統計表，如表 7.1b，**主要觀測站修補前後**每月風力歷線比較圖，如圖 7.1，**主要觀測站**與**次要觀測站**(或**其他觀測站**)每月風力歷線比較圖，如圖 7.2 以後。

表 7 高雄海域觀測風力資料蒐集概況表(統計時間至 2015 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	2002/06-2015/11(觀測中)	港研中心	高雄 1 港口
W	22°32'51"N	120°17'55"E	2010/09-2015/11(觀測中)	港研中心	高雄 2 港口
C	22°32'51"N	120°17'55"E	2007/04-2015/11(觀測中)	港研中心	高雄 2 港口
E	22°33'58"N	120°18'57"E	1999/01-2015/11(觀測中)	中央氣象局	高雄
Z	22°45'50"N	120°09'49"E	2012/09-2015/11(觀測中)	水利署	彌陀浮標站
H	23°09'32"N	121°24'12"E	2013/09-2015/11(觀測中)	中央氣象局	小港氣象站

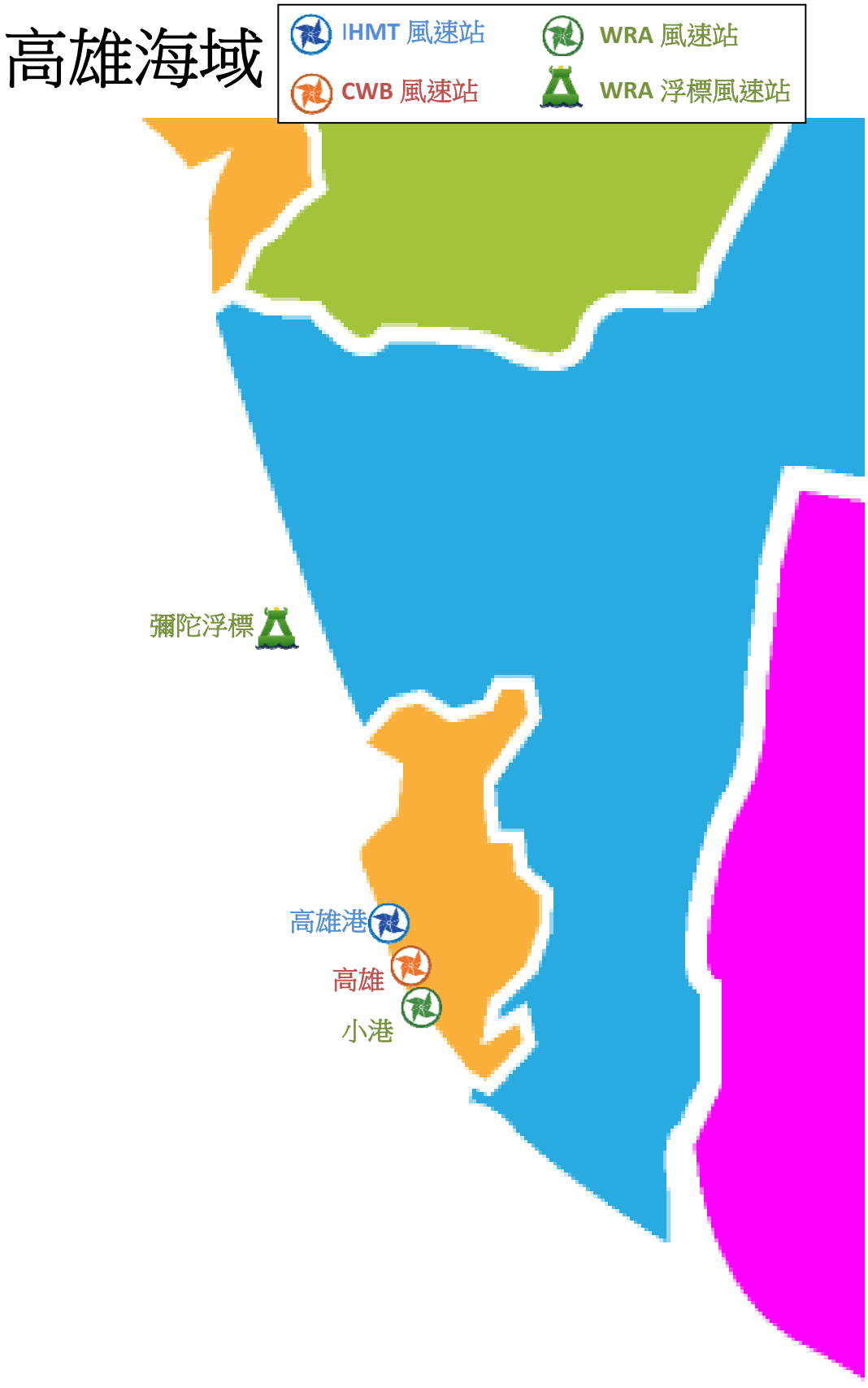

圖 7 高雄海域風力觀測站位置示意圖

表7.1a 2015年每月高雄海域修補前各測站觀測風力資料紀錄統計表

年/月 港區	高雄海域	高雄海域	高雄海域	高雄海域	高雄海域	高雄海域	高雄海域	高雄海域
測站	W	Z	B	C	E	H		
2014/12月	743 (99.9%)	729 (98.0%)	367 (49.3%)	*	744 (100%)	743 (99.9%)	*	*
2015/ 1月	743 (99.9%)	740 (99.5%)	743 (99.9%)	*	743 (99.9%)	744 (100%)	*	*
2015/ 2月	671 (99.9%)	671 (99.9%)	671 (99.9%)	74 (11.0%)	672 (100%)	672 (100%)	*	*
2015/ 3月	743 (99.9%)	739 (99.3%)	743 (99.9%)	744 (100%)	744 (100%)	740 (99.5%)	*	*
2015/ 4月	719 (99.9%)	718 (99.7%)	719 (99.9%)	719 (99.9%)	720 (100%)	718 (99.7%)	*	*
2015/ 5月	743 (99.9%)	741 (99.6%)	743 (99.9%)	736 (98.9%)	744 (100%)	743 (99.9%)	*	*
2015/ 6月	719 (99.9%)	716 (99.4%)	720 (100%)	717 (99.6%)	720 (100%)	719 (99.9%)	*	*
2015/ 7月	743 (99.9%)	737 (99.1%)	743 (99.9%)	741 (99.6%)	744 (100%)	743 (99.9%)	*	*
2015/ 8月	743 (99.9%)	744 (100%)	743 (99.9%)	741 (99.6%)	744 (100%)	743 (99.9%)	*	*
2015/ 9月	719 (99.9%)	720 (100%)	719 (99.9%)	709 (98.5%)	720 (100%)	719 (99.9%)	*	*
2015/10月	741 (99.6%)	744 (100%)	537 (72.2%)	743 (99.9%)	744 (100%)	743 (99.9%)	*	*
2015/11月	719 (99.9%)	716 (99.4%)	615 (85.4%)	718 (99.7%)	720 (100%)	719 (99.9%)	*	*
2015/冬季	2157 (99.9%)	2140 (99.1%)	1781 (82.5%)	74 (3.4%)	2159 (100.0%)	2159 (100.0%)	*	*
2015/春季	2205 (99.9%)	2198 (99.5%)	2205 (99.9%)	2199 (99.6%)	2208 (100%)	2201 (99.7%)	*	*
2015/夏季	2205 (99.9%)	2197 (99.5%)	2206 (99.9%)	2199 (99.6%)	2208 (100%)	2205 (99.9%)	*	*
2015/秋季	2179 (99.8%)	2180 (99.8%)	1871 (85.7%)	2170 (99.4%)	2184 (100%)	2181 (99.9%)	*	*
2015/整年	8746 (99.8%)	8715 (99.5%)	8063 (92.0%)	6642 (75.8%)	8759 (100.0%)	8746 (99.8%)	*	*
起始年月	2014/12	2014/12	2014/12	2015/02	2014/12	2014/12	*	*
結束年月	2015/11	2015/11	2015/11	2015/11	2015/11	2015/11	*	*

表7.1b 2015年每月高雄海域修補後各測站風力資料統計表

年/月 港區	高雄海域	高雄海域	高雄海域	高雄海域	高雄海域	高雄海域	高雄海域	高雄海域
測站	W	Z	B	C	E	H		
2014/12月	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	*	*
2015/ 1月	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	*	*
2015/ 2月	672 (100%)	672 (100%)	672 (100%)	672 (100%)	672 (100%)	672 (100%)	*	*
2015/ 3月	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	*	*
2015/ 4月	720 (100%)	720 (100%)	720 (100%)	720 (100%)	720 (100%)	720 (100%)	*	*
2015/ 5月	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	*	*
2015/ 6月	720 (100%)	720 (100%)	720 (100%)	720 (100%)	720 (100%)	720 (100%)	*	*
2015/ 7月	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	*	*
2015/ 8月	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	*	*
2015/ 9月	720 (100%)	720 (100%)	720 (100%)	720 (100%)	720 (100%)	720 (100%)	*	*
2015/10月	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	*	*
2015/11月	720 (100%)	720 (100%)	720 (100%)	720 (100%)	720 (100%)	720 (100%)	*	*
2015/冬季	2160 (100%)	2160 (100%)	2160 (100%)	2160 (100%)	2160 (100%)	2160 (100%)	*	*
2015/春季	2208 (100%)	2208 (100%)	2208 (100%)	2208 (100%)	2208 (100%)	2208 (100%)	*	*
2015/夏季	2208 (100%)	2208 (100%)	2208 (100%)	2208 (100%)	2208 (100%)	2208 (100%)	*	*
2015/秋季	2184 (100%)	2184 (100%)	2184 (100%)	2184 (100%)	2184 (100%)	2184 (100%)	*	*
2015/整年	8760 (100%)	8760 (100%)	8760 (100%)	8760 (100%)	8760 (100%)	8760 (100%)	*	*
起始年月	2014/12	2014/12	2014/12	2014/12	2014/12	2014/12	*	*
結束年月	2015/11	2015/11	2015/11	2015/11	2015/11	2015/11	*	*

Wind Speed in Kao-Hsiung Seas of KHW0 at 2015

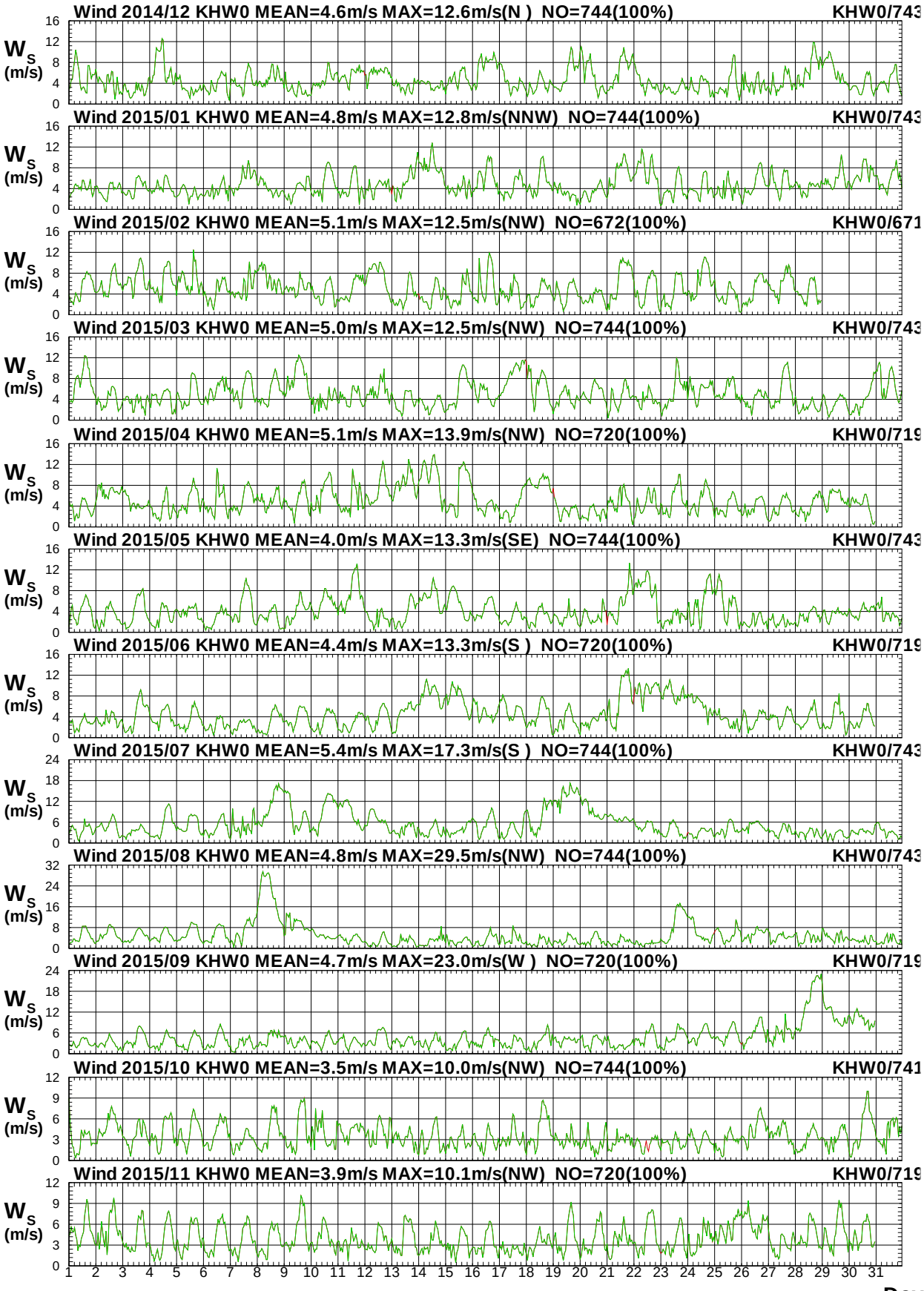

圖 7.1a　2015年每月高雄海域 W 站修補前後之風速比較圖

W14CKHW0.1HA W14CKHW0.1H0 W151KHW0.1HA W151KHW0.1H0 W152KHW0.1HA W152KHW0.1H0
W153KHW0.1HA W153KHW0.1H0 W154KHW0.1HA W154KHW0.1H0 W155KHW0.1HA W155KHW0.1H0

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Wind Direction in Kao-Hsiung Seas of KHW0 at 2015

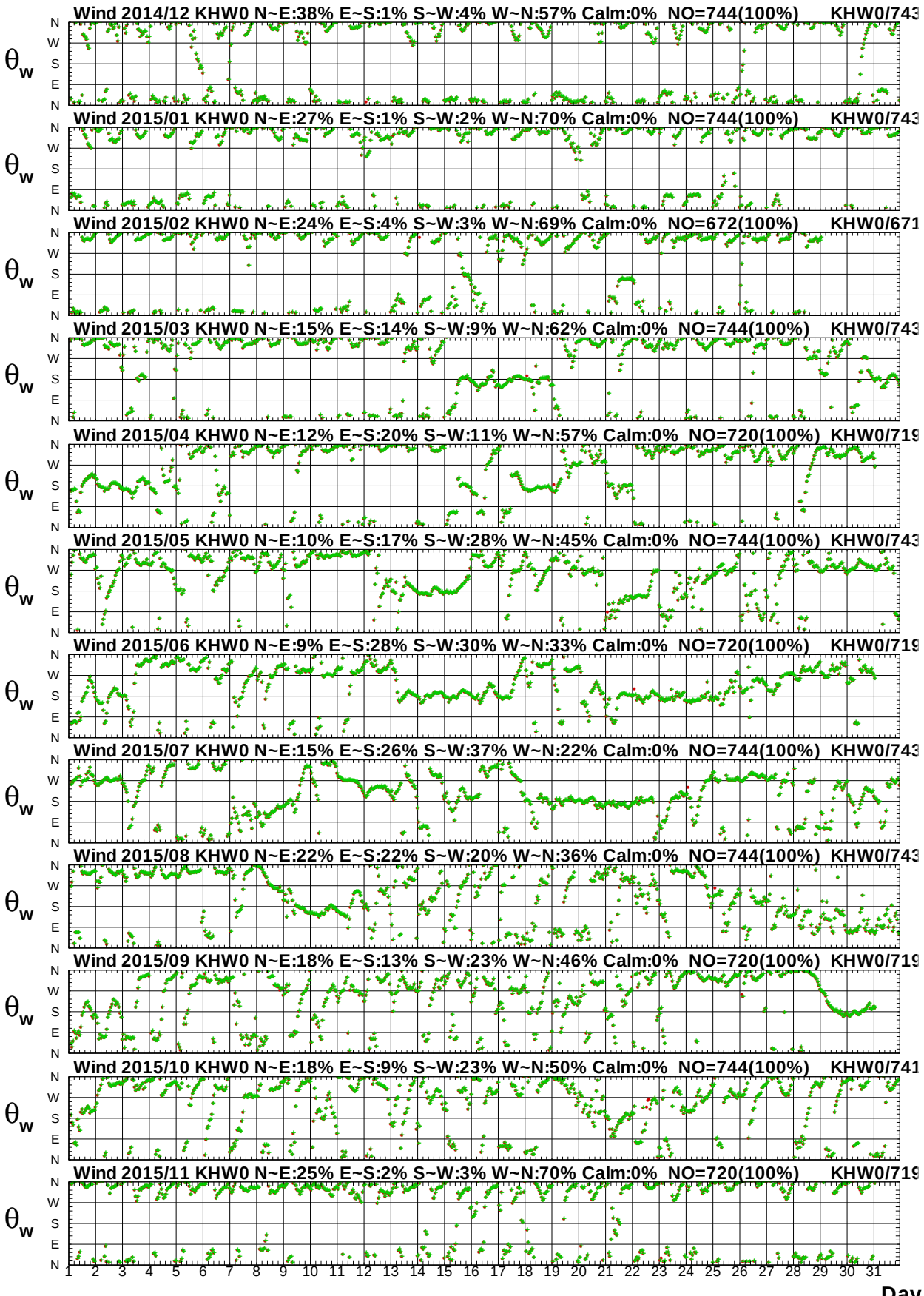

圖 7.1b　2015年每月高雄海域 W 站修補前後之風向比較圖

Wind Speed in Kao-Hsiung Seas of KHW0 at 2015

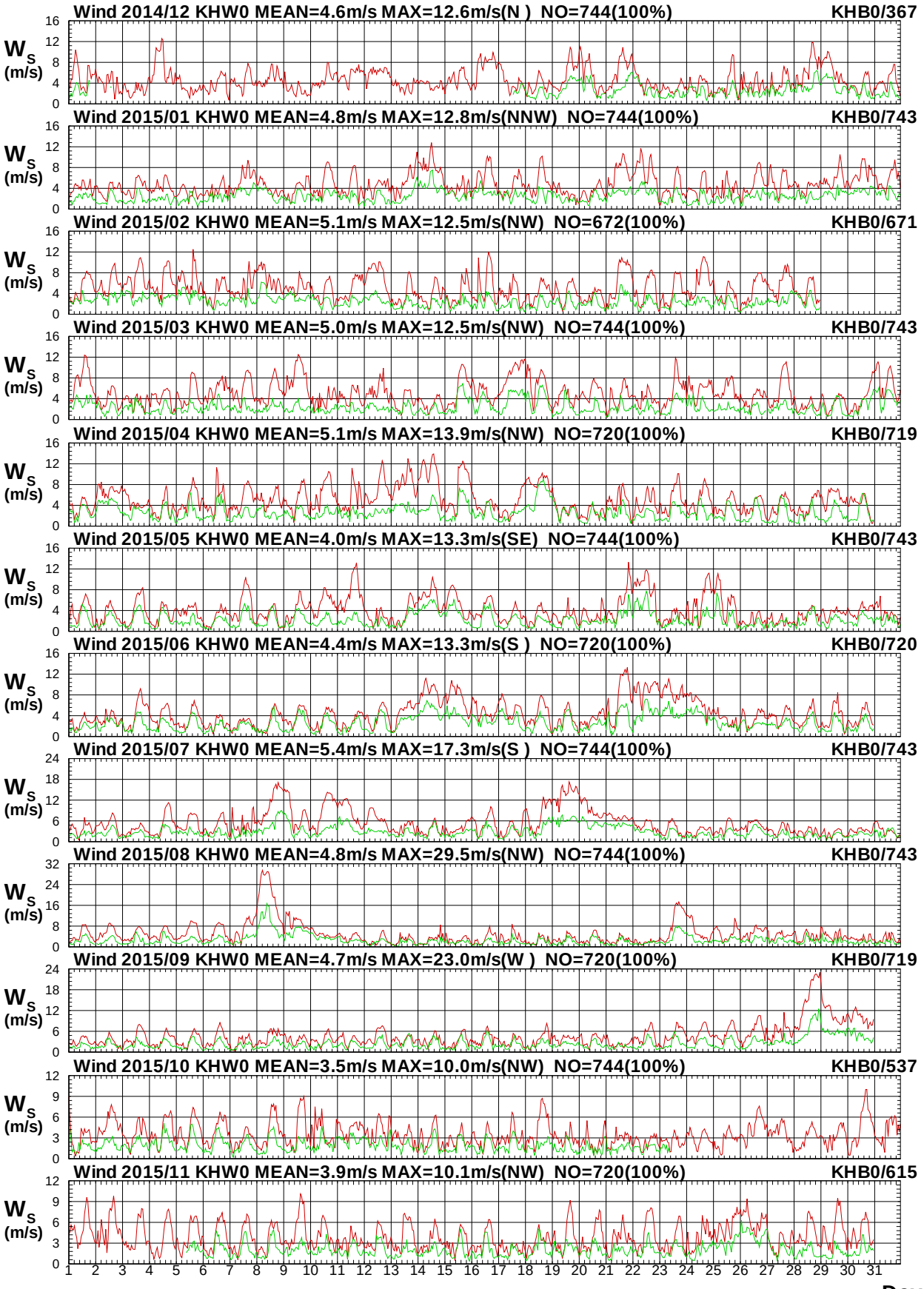

圖7.2a　2015年每月高雄海域 W 站與 B 站風速比較圖

W14CKHW0.1HA W14CKHB0.1H0 W151KHW0.1HA W151KHB0.1H0 W152KHW0.1HA W152KHB0.1H0
W153KHW0.1HA W153KHB0.1H0 W154KHW0.1HA W154KHB0.1H0 W155KHW0.1HA W155KHB0.1H0

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Wind Direction in Kao-Hsiung Seas of KHW0 at 2015

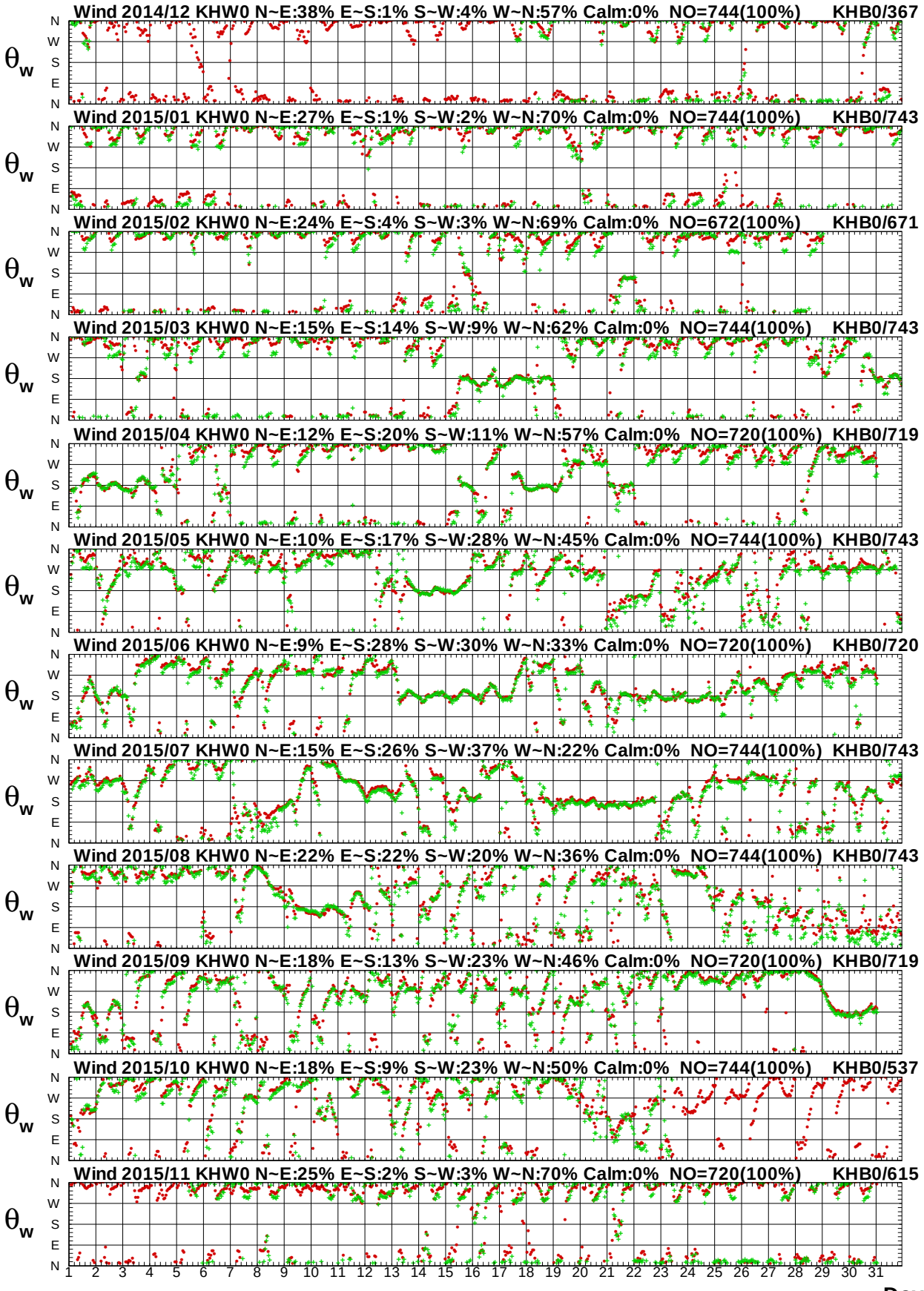

圖 7.2b　2015年每月高雄海域 W 站與 B 站風向比較圖

W14CKHW0.1HA W14CKHB0.1H0 W151KHW0.1HA W151KHB0.1H0 W152KHW0.1HA W152KHB0.1H0
W153KHW0.1HA W153KHB0.1H0 W154KHW0.1HA W154KHB0.1H0 W155KHW0.1HA W155KHB0.1H0

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Wind Speed in Kao-Hsiung Seas of KHW0 at 2015

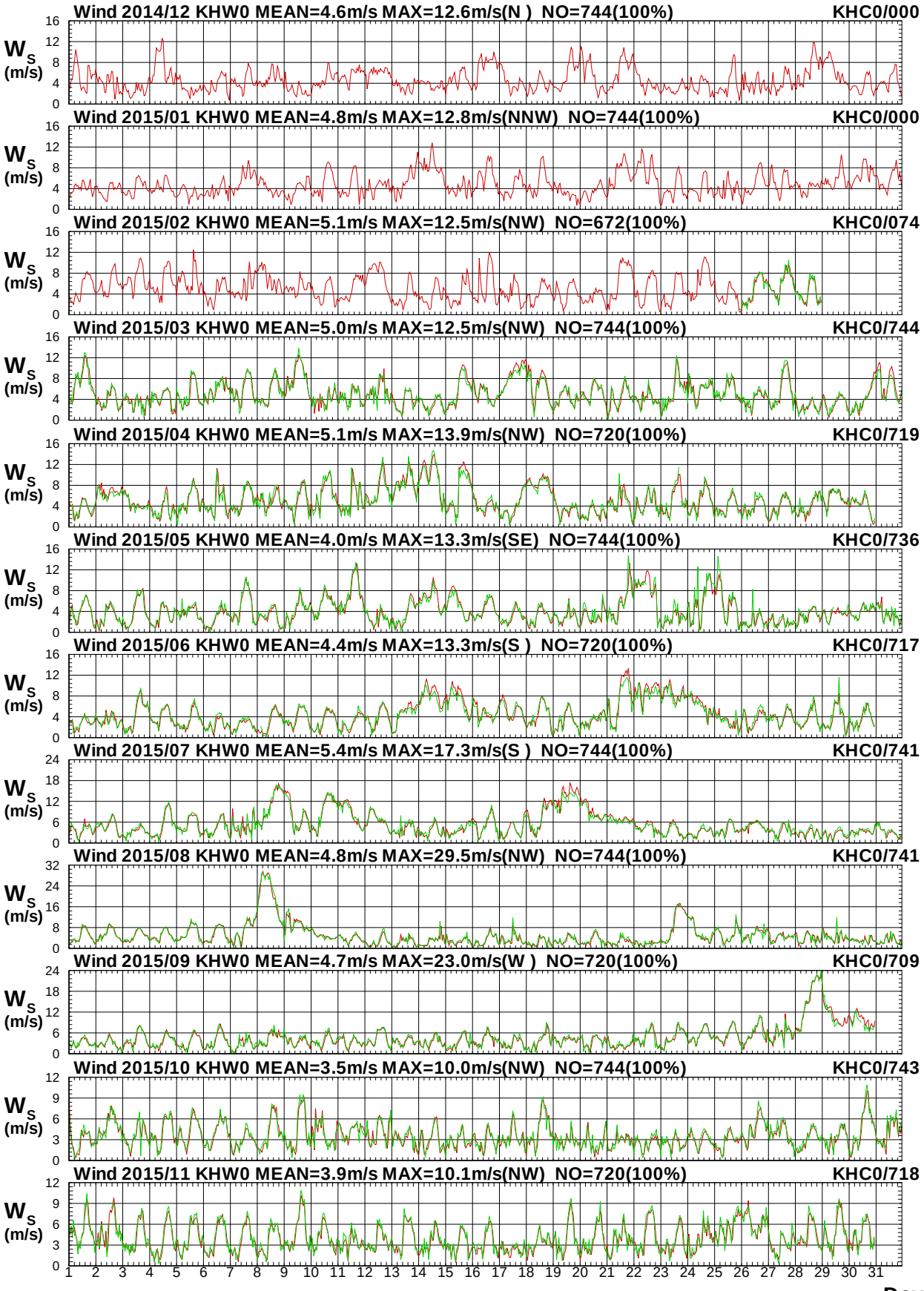

圖 7.3a　2015年每月高雄海域 W 站與 C 站風速比較圖

W14CKHW0.1HA W14CKHC0.1H0 W151KHW0.1HA W151KHC0.1H0 W152KHW0.1HA W152KHC0.1H0
W153KHW0.1HA W153KHC0.1H0 W154KHW0.1HA W154KHC0.1H0 W155KHW0.1HA W155KHC0.1H0

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Wind Direction in Kao-Hsiung Seas of KHW0 at 2015

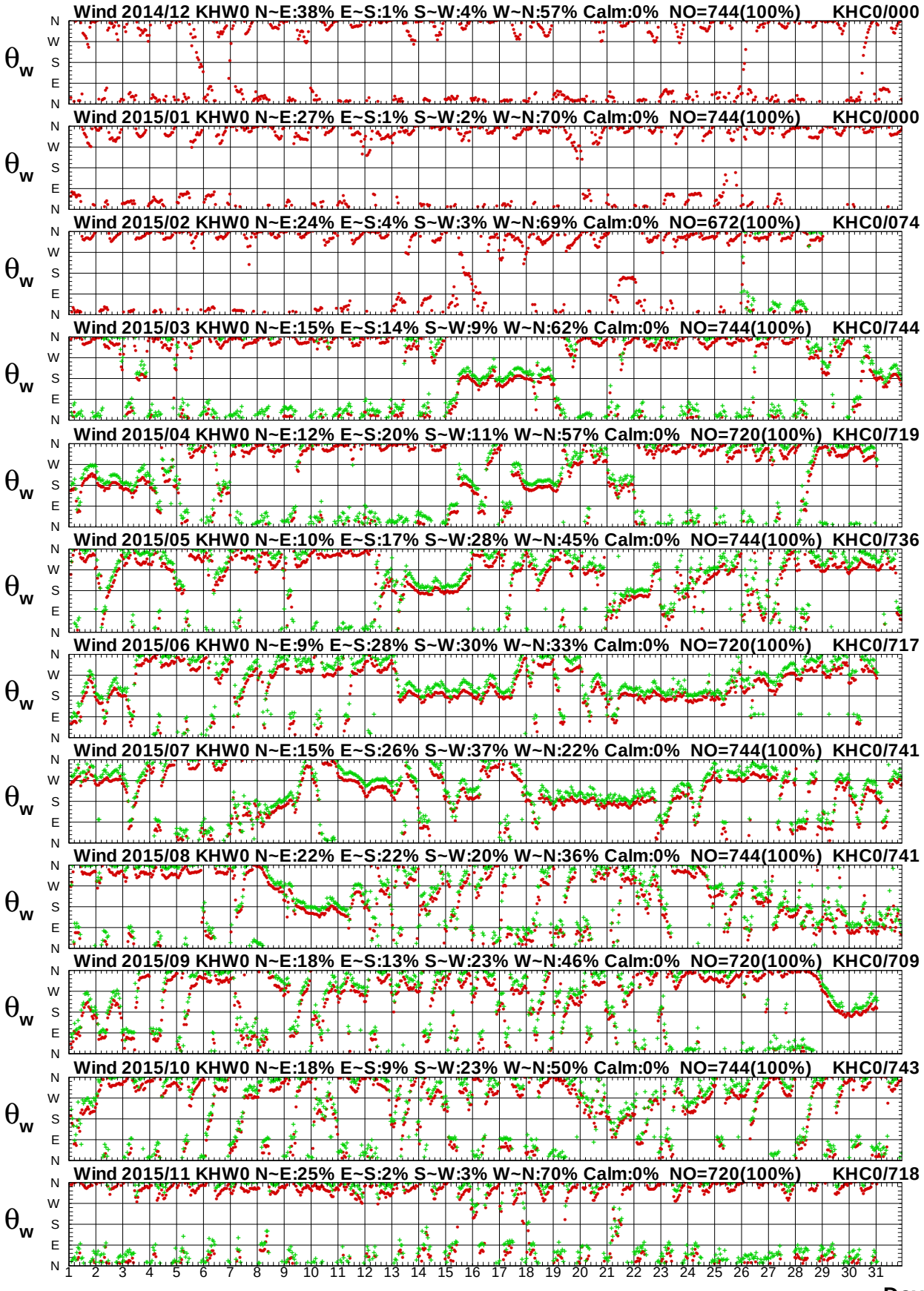

圖 7.3b　2015年每月高雄海域 W 站與 C 站風向比較圖

W14CKHW0.1HA W14CKHC0.1H0 W151KHW0.1HA W151KHC0.1H0 W152KHW0.1HA W152KHC0.1H0
W153KHW0.1HA W153KHC0.1H0 W154KHW0.1HA W154KHC0.1H0 W155KHW0.1HA W155KHC0.1H0

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Wind Speed in Kao-Hsiung Seas of KHW0 at 2015

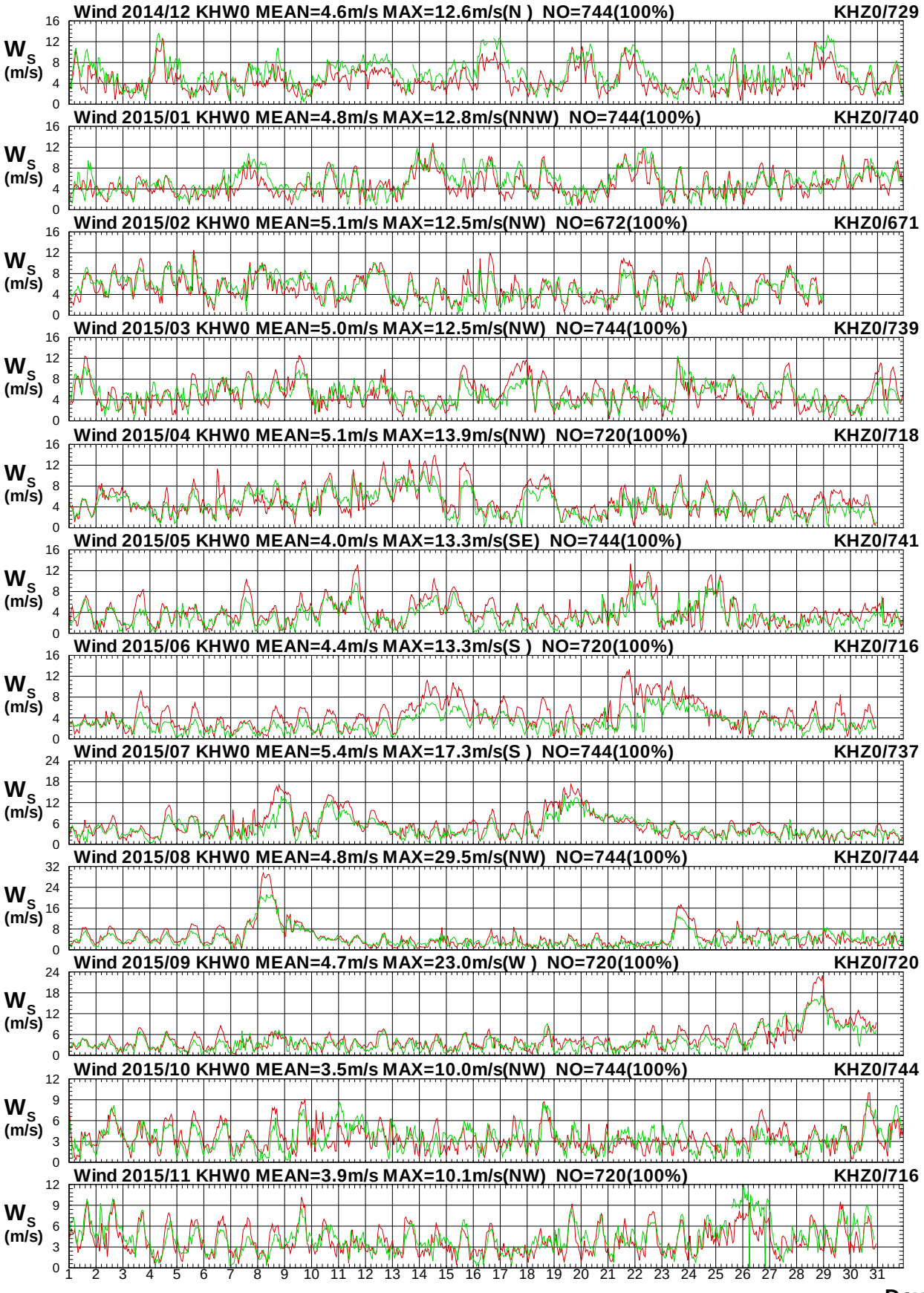

圖7.4a　2015年每月高雄海域 W 站與 Z 站風速比較圖

W14CKHW0.1HA W14CKHZ0.1H0 W151KHW0.1HA W151KHZ0.1H0 W152KHW0.1HA W152KHZ0.1H0
W153KHW0.1HA W153KHZ0.1H0 W154KHW0.1HA W154KHZ0.1H0 W155KHW0.1HA W155KHZ0.1H0

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Wind Direction in Kao-Hsiung Seas of KHW0 at 2015

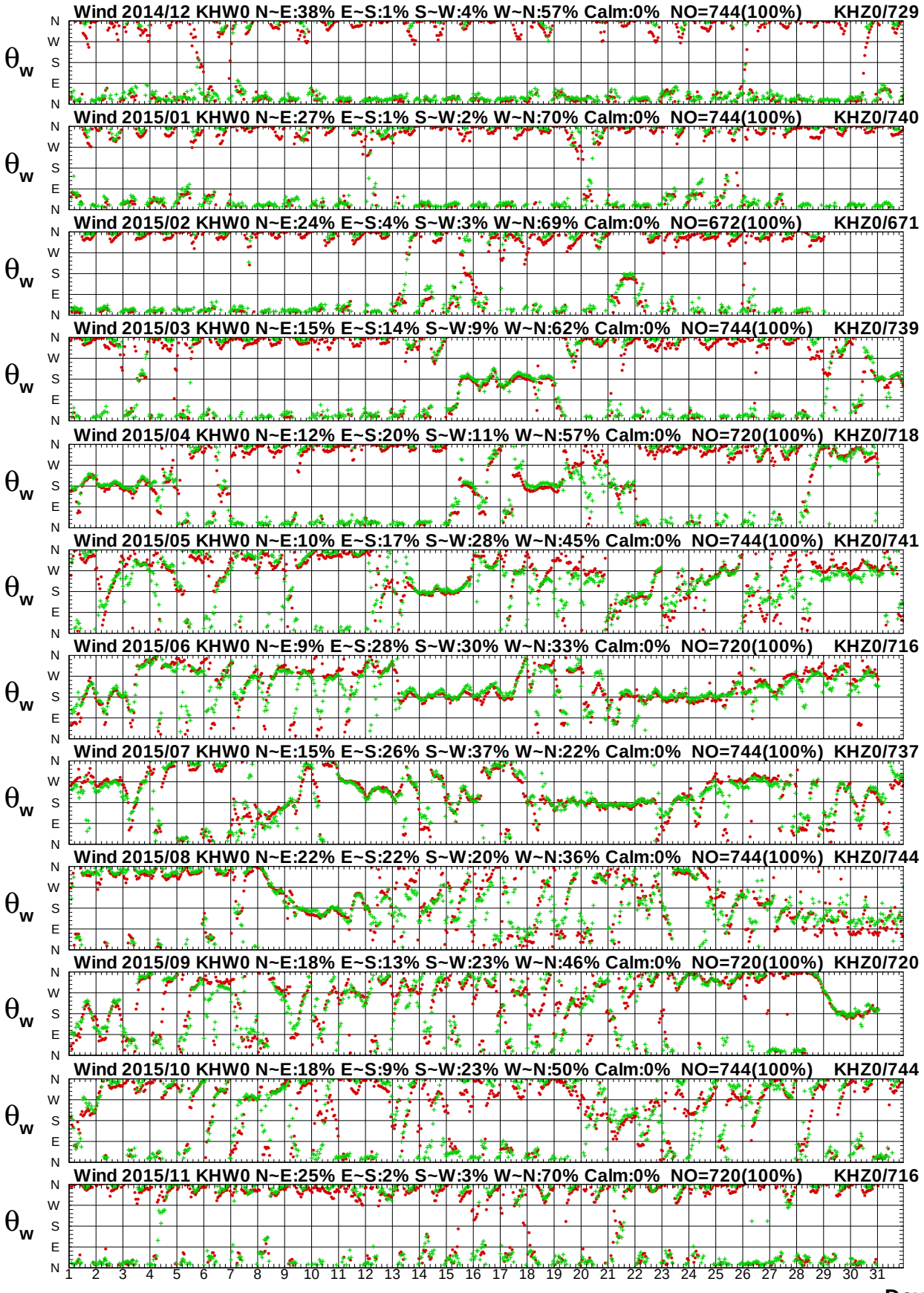

圖7.4b　2015年每月高雄海域 W 站與 Z 站風向比較圖

Wind Speed in Kao-Hsiung Seas of KHW0 at 2015

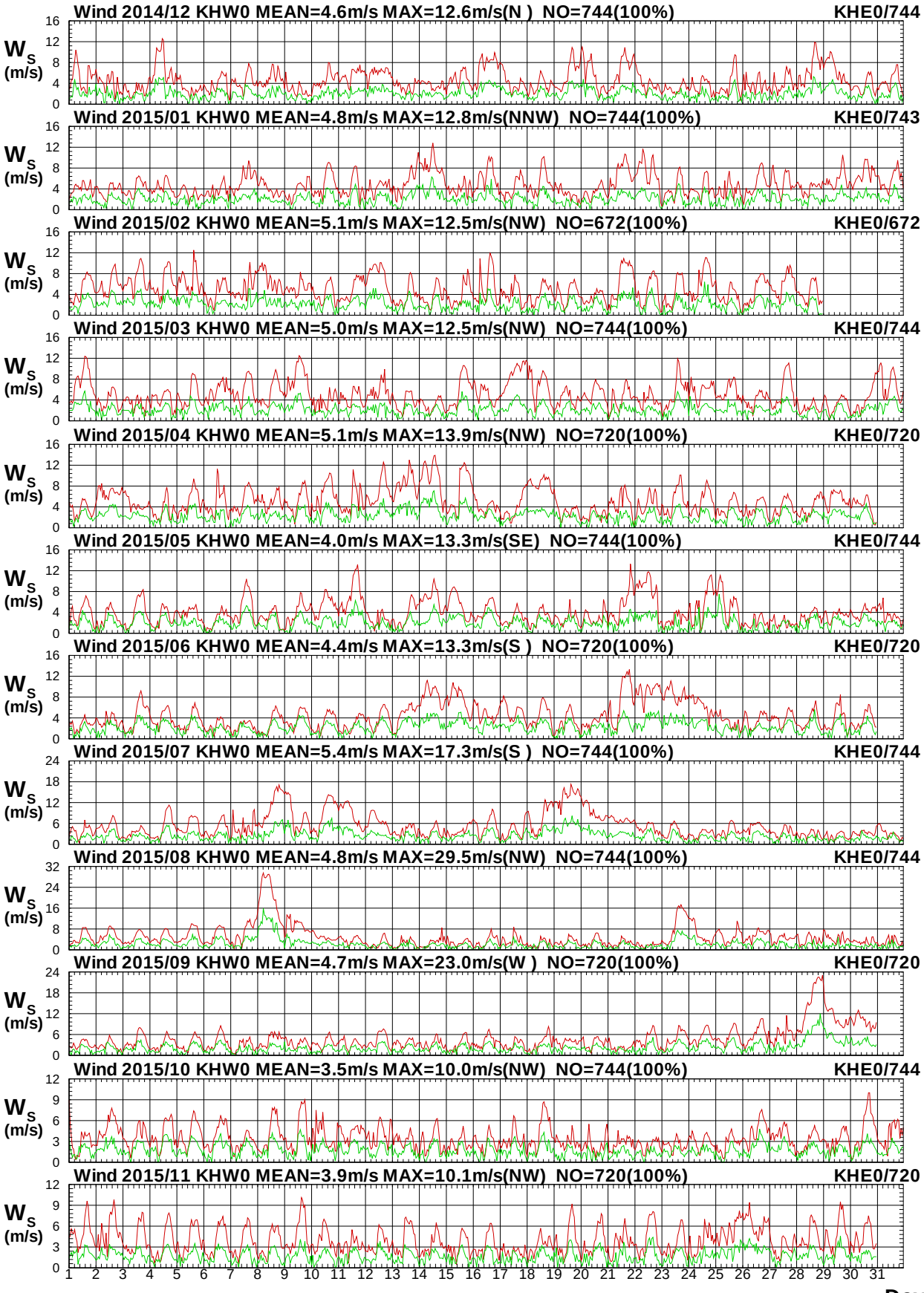

圖7.5a　2015年每月高雄海域 W 站與 E 站風速比較圖

W14CKHW0.1HA W14CKHE0.1H0 W151KHW0.1HA W151KHE0.1H0 W152KHW0.1HA W152KHE0.1H0
W153KHW0.1HA W153KHE0.1H0 W154KHW0.1HA W154KHE0.1H0 W155KHW0.1HA W155KHE0.1H0

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Wind Direction in Kao-Hsiung Seas of KHW0 at 2015

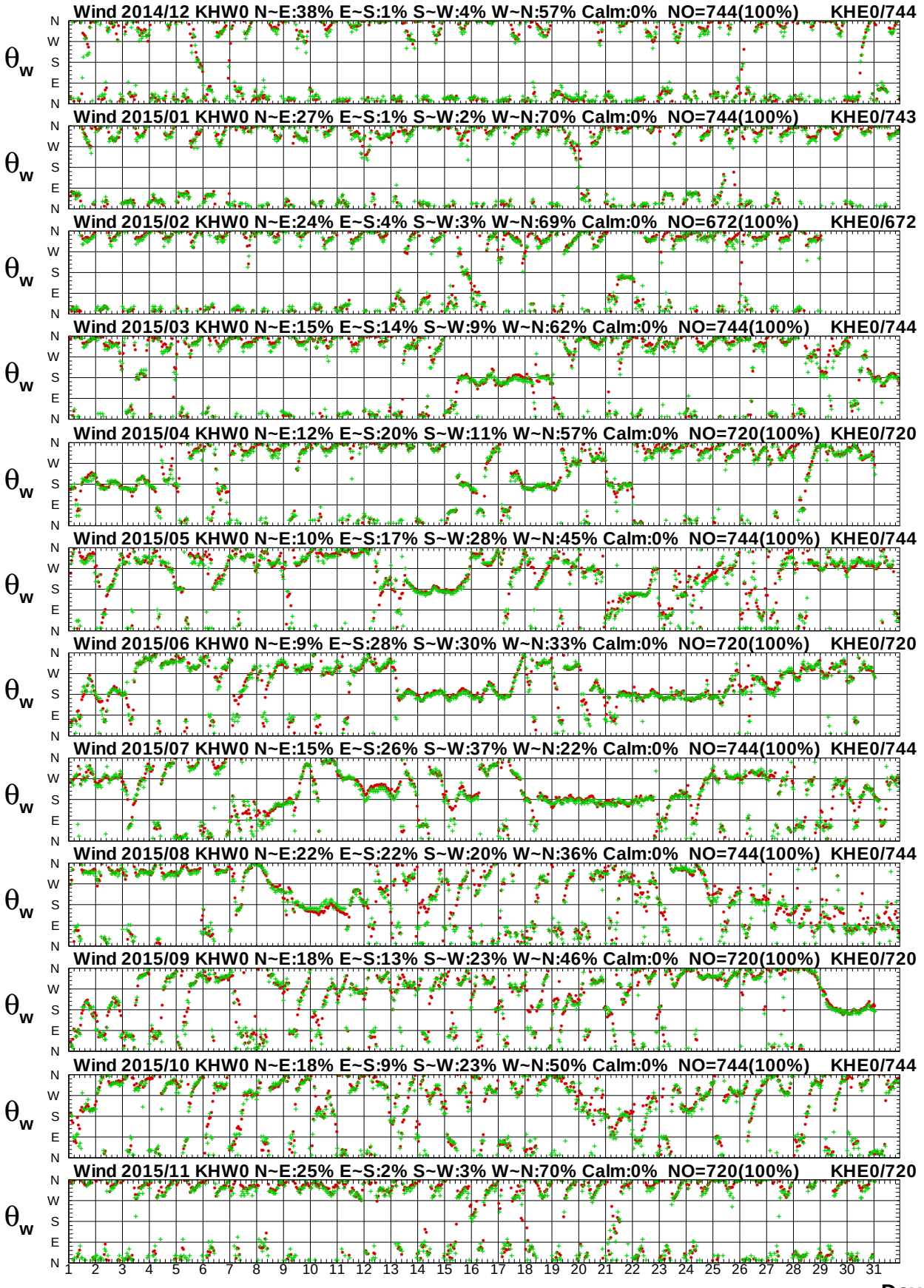

圖 7.5b　2015年每月高雄海域 W 站與 E 站風向比較圖

W14CKHW0.1HA W14CKHE0.1H0 W151KHW0.1HA W151KHE0.1H0 W152KHW0.1HA W152KHE0.1H0
W153KHW0.1HA W153KHE0.1H0 W154KHW0.1HA W154KHE0.1H0 W155KHW0.1HA W155KHE0.1H0

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Wind Speed in Kao-Hsiung Seas of KHW0 at 2015

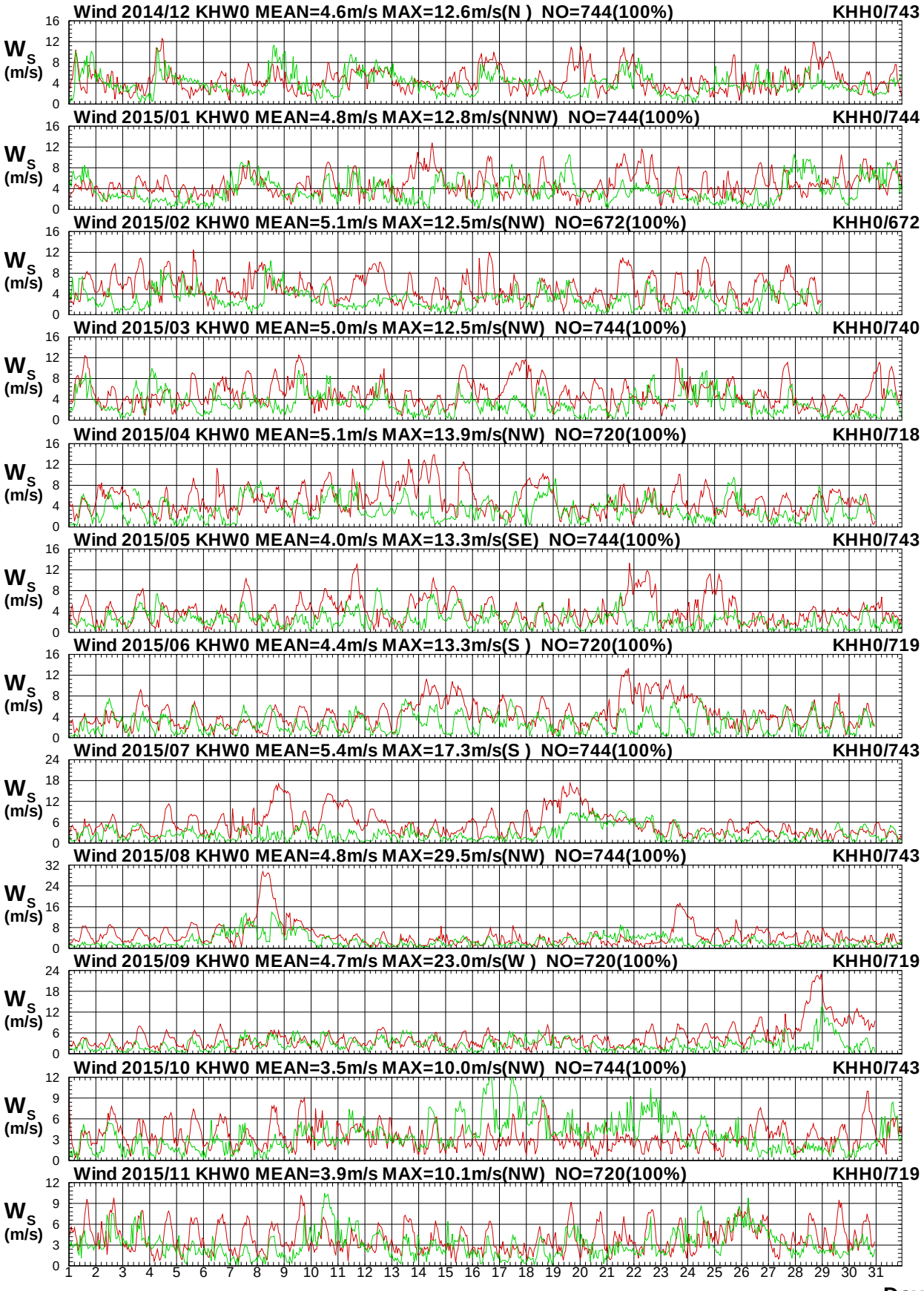

圖7.6a　2015年每月高雄海域 W 站與 H 站風速比較圖

W14CKHW0.1HA W14CKHH0.1H0 W151KHW0.1HA W151KHH0.1H0 W152KHW0.1HA W152KHH0.1H0
W153KHW0.1HA W153KHH0.1H0 W154KHW0.1HA W154KHH0.1H0 W155KHW0.1HA W155KHH0.1H0

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Wind Direction in Kao-Hsiung Seas of KHW0 at 2015

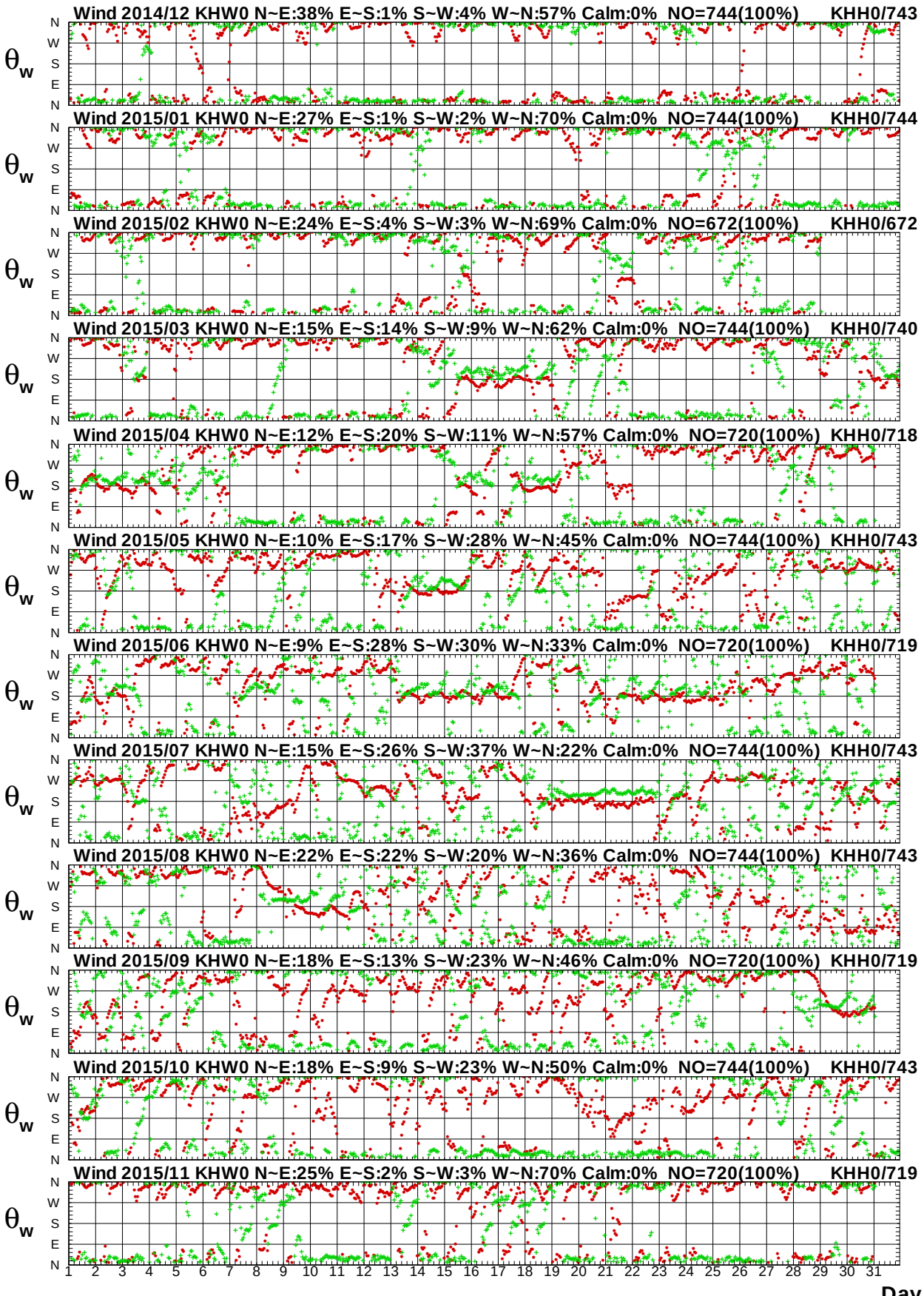

圖7.6b　2015年每月高雄海域 W 站與 H 站風向比較圖

W14CKHW0.1HA W14CKHH0.1H0 W151KHW0.1HA W151KHH0.1H0 W152KHW0.1HA W152KHH0.1H0
W153KHW0.1HA W153KHH0.1H0 W154KHW0.1HA W154KHH0.1H0 W155KHW0.1HA W155KHH0.1H0

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Wind Speed in Kao-Hsiung Seas of KHW0 at 2015

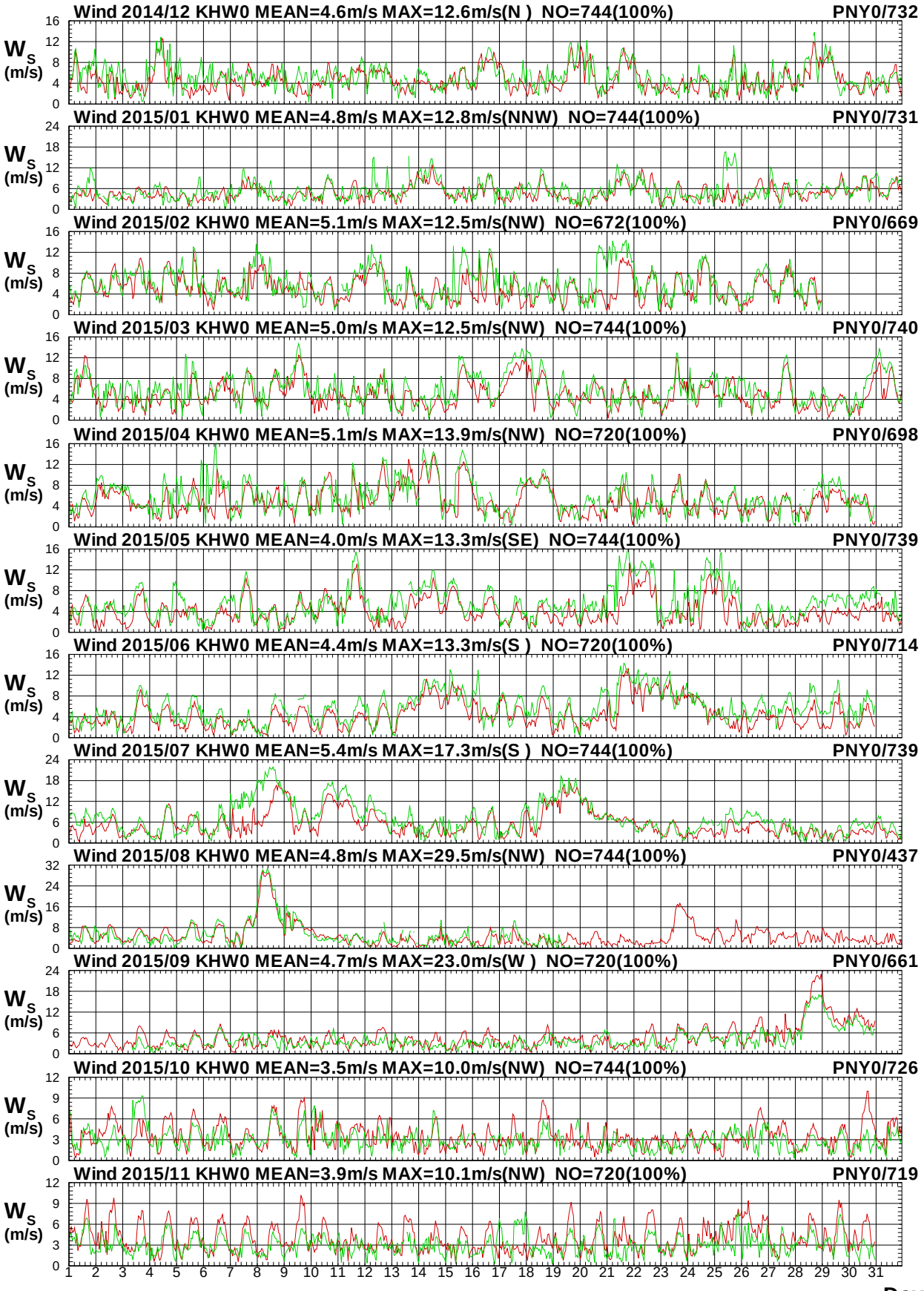

圖7.7a　2015年每月高雄海域 W 站與屏東海域 Y 站風速圖

W14CKHW0.1HA W14CPNY0.1H0 W151KHW0.1HA W151PNY0.1H0 W152KHW0.1HA W152PNY0.1H0
W153KHW0.1HA W153PNY0.1H0 W154KHW0.1HA W154PNY0.1H0 W155KHW0.1HA W155PNY0.1H0

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Wind Direction in Kao-Hsiung Seas of KHW0 at 2015

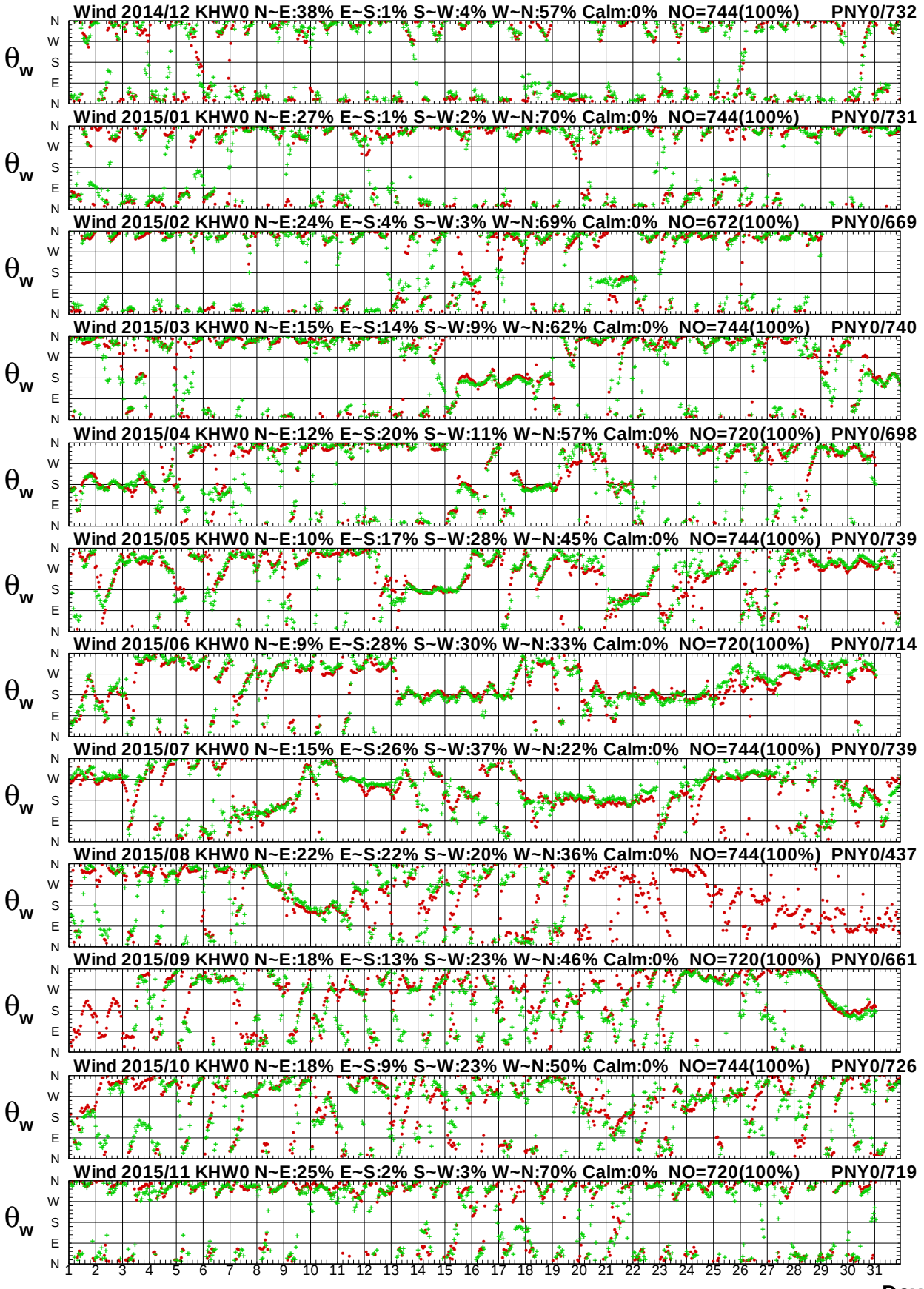

圖7.7b　2015年每月高雄海域 W 站與屏東海域 Y 站風向圖

Wind Speed in Kao-Hsiung Seas of KHW0 at 2015

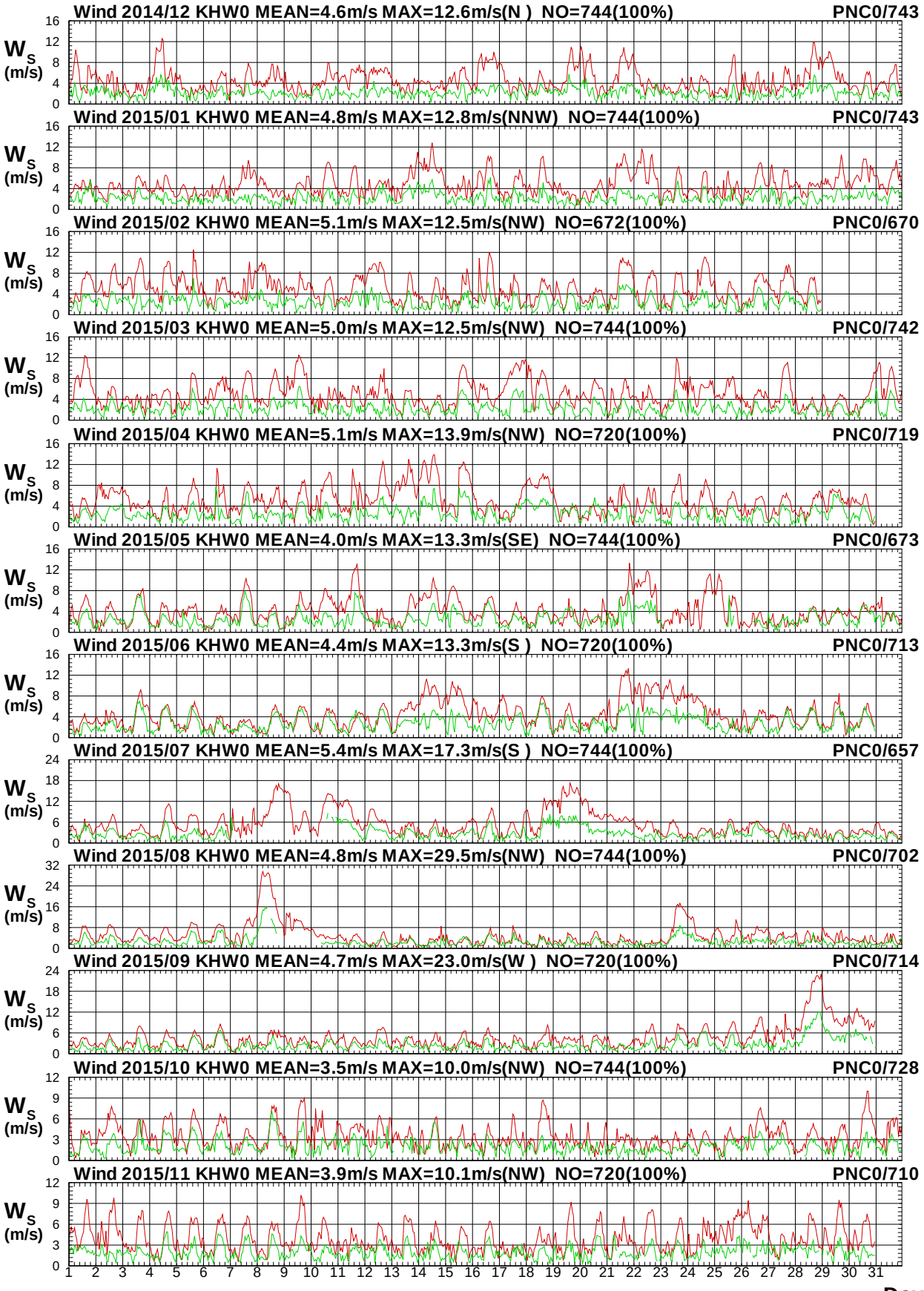

圖7.8a　2015年每月高雄海域 W 站與屏東海域 C 站風速圖

W14CKHW0.1HA W14CPNC0.1H0 W151KHW0.1HA W151PNC0.1H0 W152KHW0.1HA W152PNC0.1H0
W153KHW0.1HA W153PNC0.1H0 W154KHW0.1HA W154PNC0.1H0 W155KHW0.1HA W155PNC0.1H0

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Wind Direction in Kao-Hsiung Seas of KHW0 at 2015

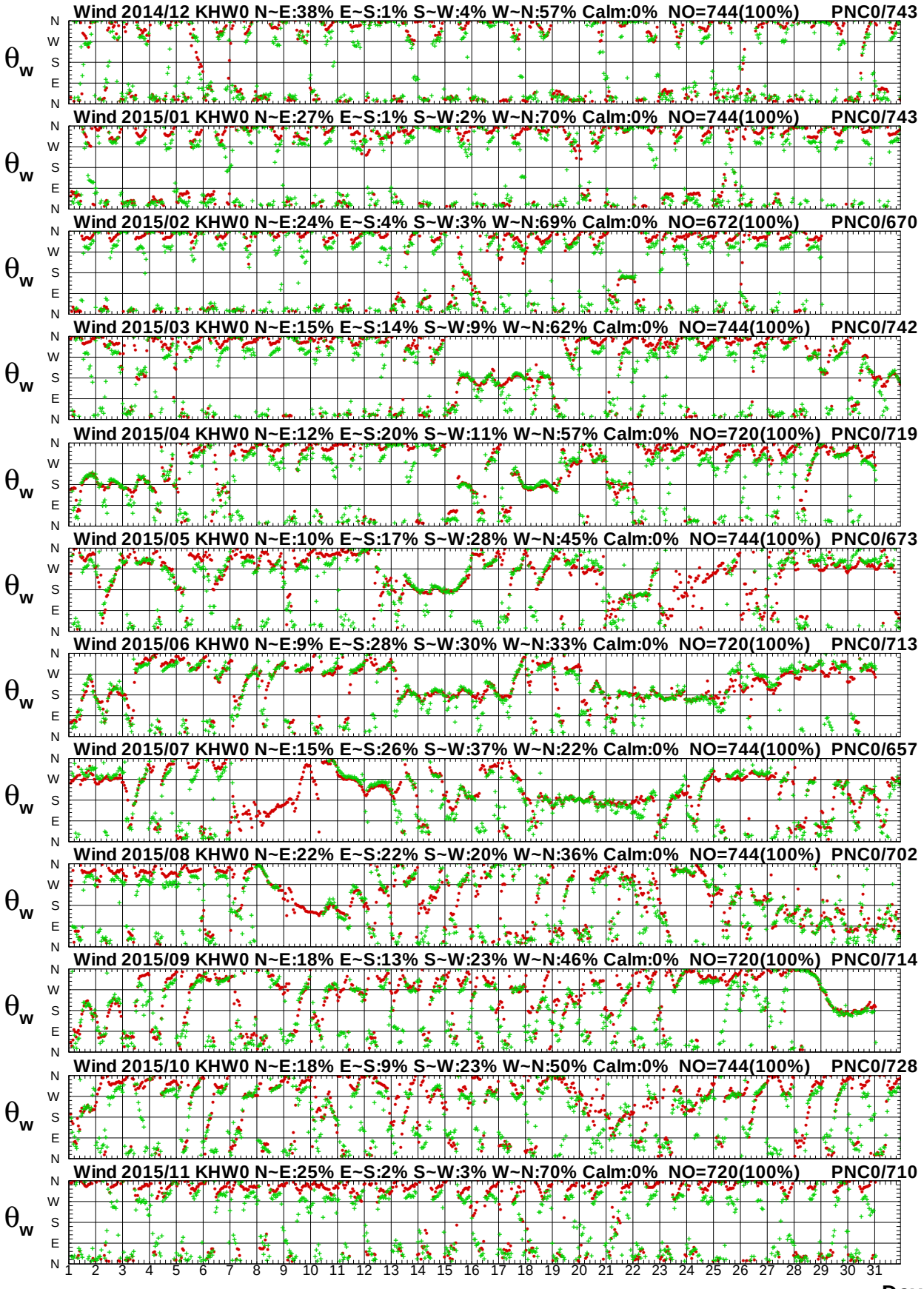

圖7.8b　2015年每月高雄海域 W 站與屏東海域 C 站風向圖

W14CKHW0.1HA W14CPNC0.1H0 W151KHW0.1HA W151PNC0.1H0 W152KHW0.1HA W152PNC0.1H0
W153KHW0.1HA W153PNC0.1H0 W154KHW0.1HA W154PNC0.1H0 W155KHW0.1HA W155PNC0.1H0

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Wind Speed in Kao-Hsiung Seas of KHW0 at 2015

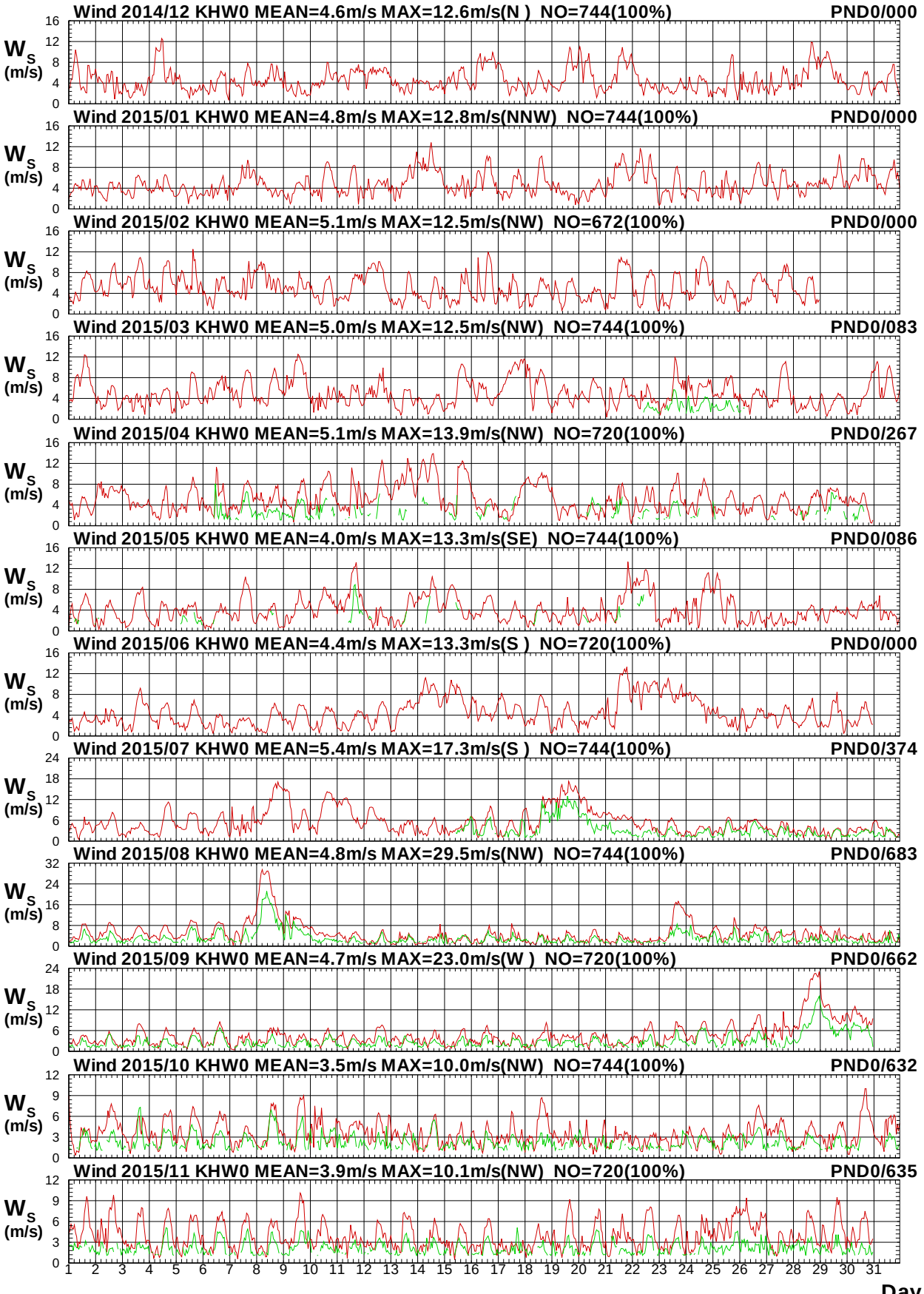

圖7.9a　2015年每月高雄海域 W 站與屏東海域 D 站風速圖

W14CKHW0.1HA W14CPND0.1H0 W151KHW0.1HA W151PND0.1H0 W152KHW0.1HA W152PND0.1H0
W153KHW0.1HA W153PND0.1H0 W154KHW0.1HA W154PND0.1H0 W155KHW0.1HA W155PND0.1H0

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Wind Direction in Kao-Hsiung Seas of KHW0 at 2015

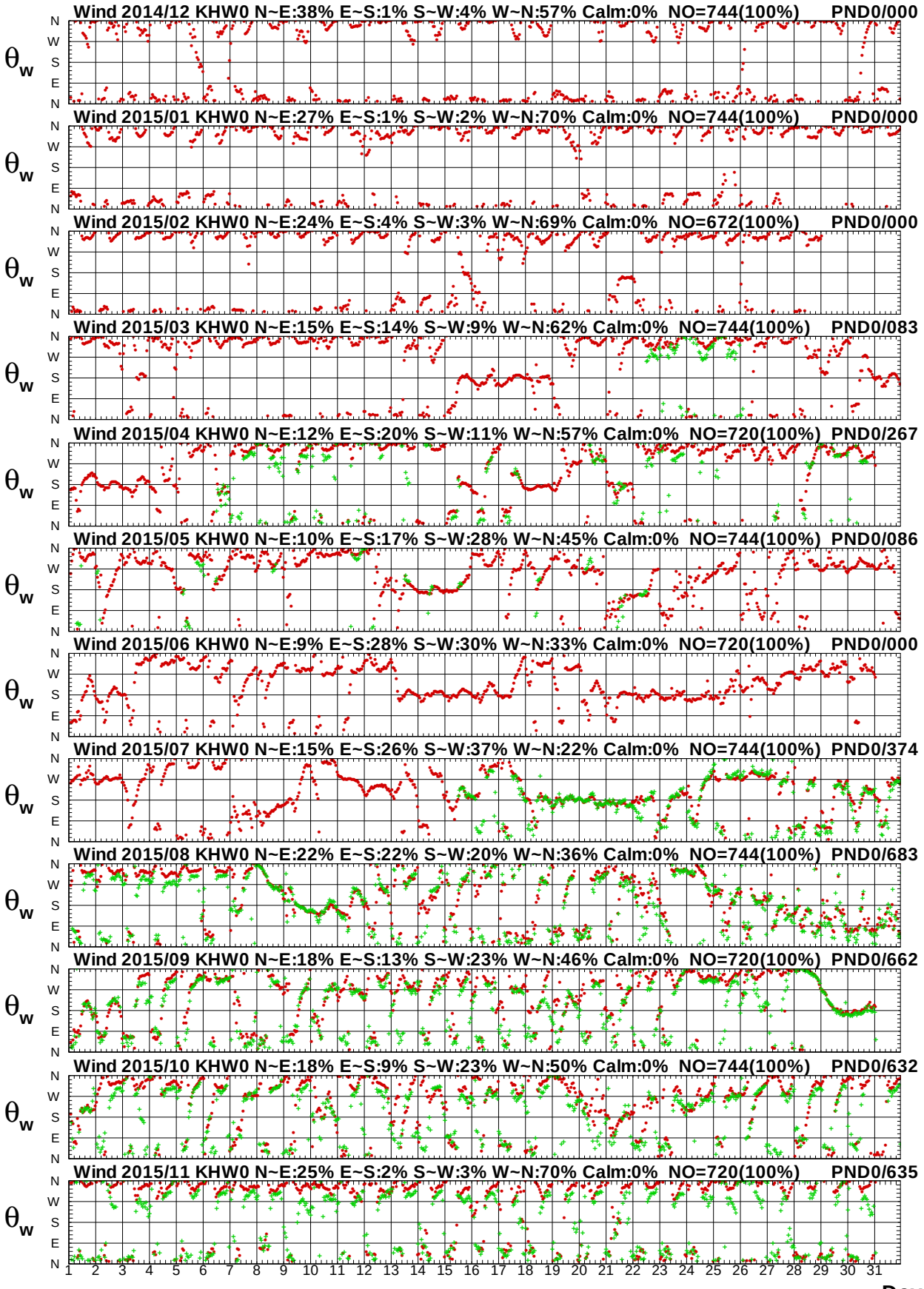

圖7.9b　2015年每月高雄海域 W 站與屏東海域 D 站風向圖

W14CKHW0.1HA W14CPND0.1H0 W151KHW0.1HA W151PND0.1H0 W152KHW0.1HA W152PND0.1H0
W153KHW0.1HA W153PND0.1H0 W154KHW0.1HA W154PND0.1H0 W155KHW0.1HA W155PND0.1H0

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Wind Speed in Kao-Hsiung Seas of KHW0 at 2015

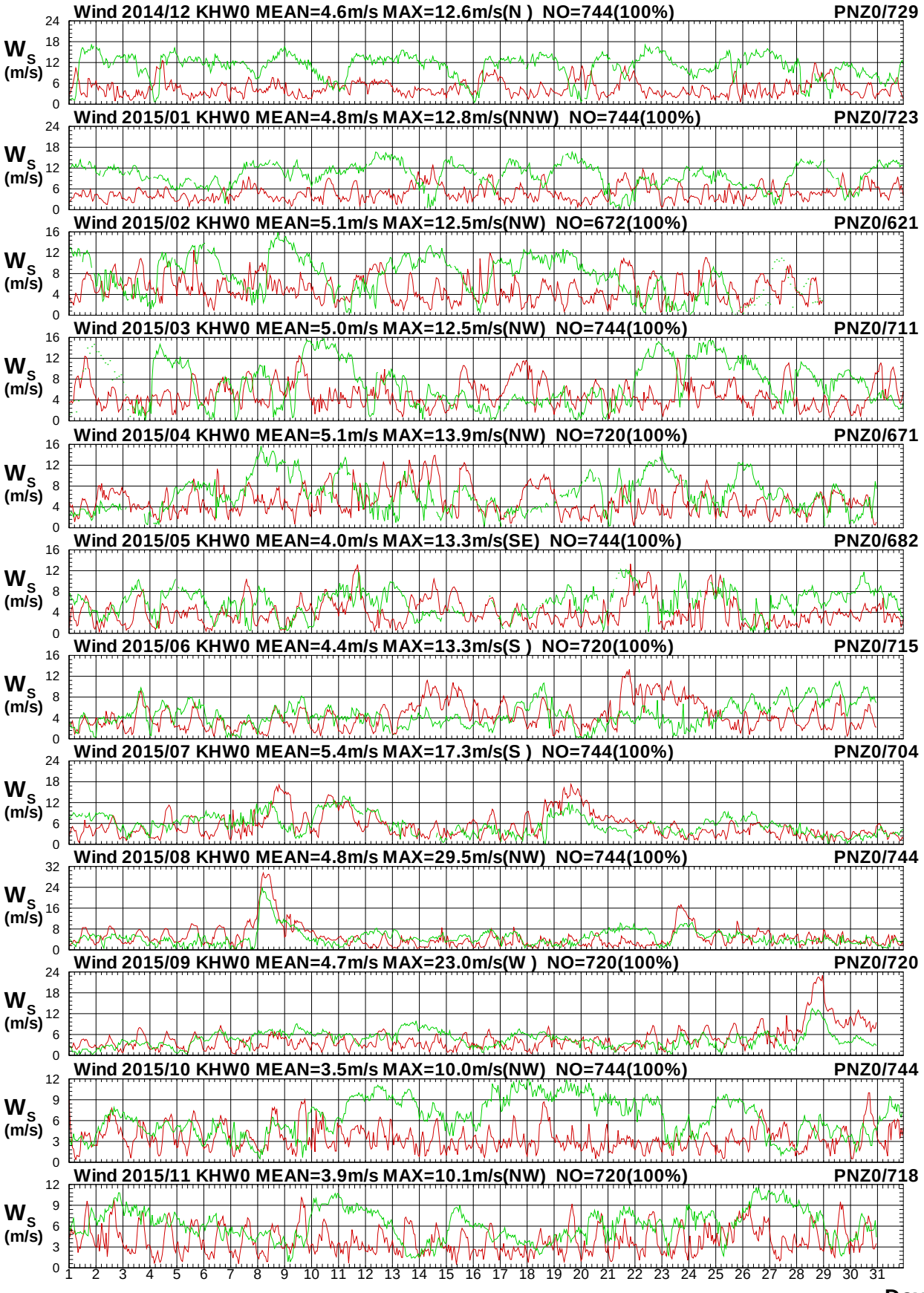

圖 7.10a　2015年每月高雄海域 W 站與屏東海域 Z 站風速圖

W14CKHW0.1HA W14CPNZ0.1H0 W151KHW0.1HA W151PNZ0.1H0 W152KHW0.1HA W152PNZ0.1H0
W153KHW0.1HA W153PNZ0.1H0 W154KHW0.1HA W154PNZ0.1H0 W155KHW0.1HA W155PNZ0.1H0

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Wind Direction in Kao-Hsiung Seas of KHW0 at 2015

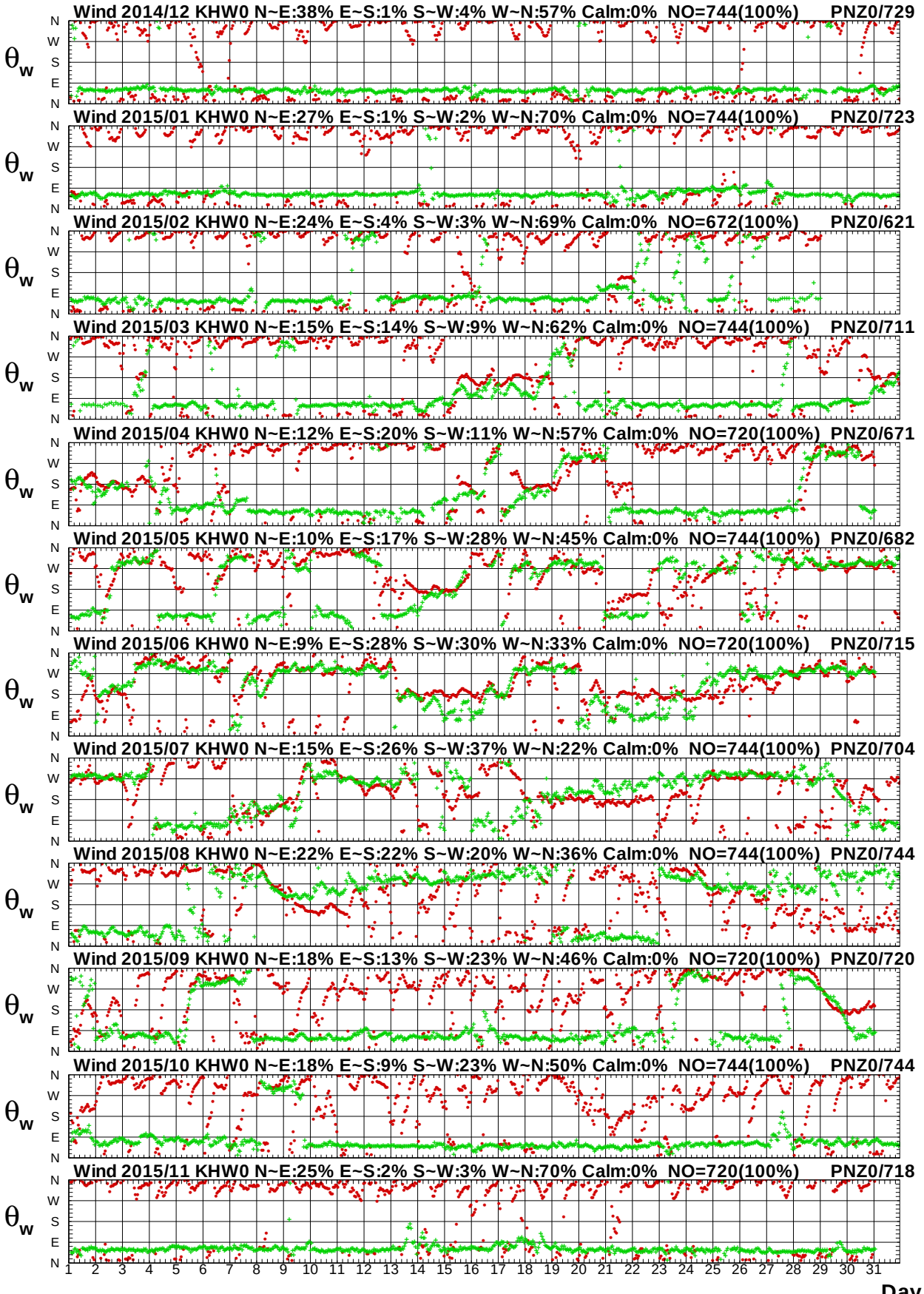

圖 7.10b　2015年每月高雄海域 W 站與屏東海域 Z 站風向圖

W14CKHW0.1HA W14CPNZ0.1H0 W151KHW0.1HA W151PNZ0.1H0 W152KHW0.1HA W152PNZ0.1H0
W153KHW0.1HA W153PNZ0.1H0 W154KHW0.1HA W154PNZ0.1H0 W155KHW0.1HA W155PNZ0.1H0

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Wind Speed in Kao-Hsiung Seas of KHW0 at 2015

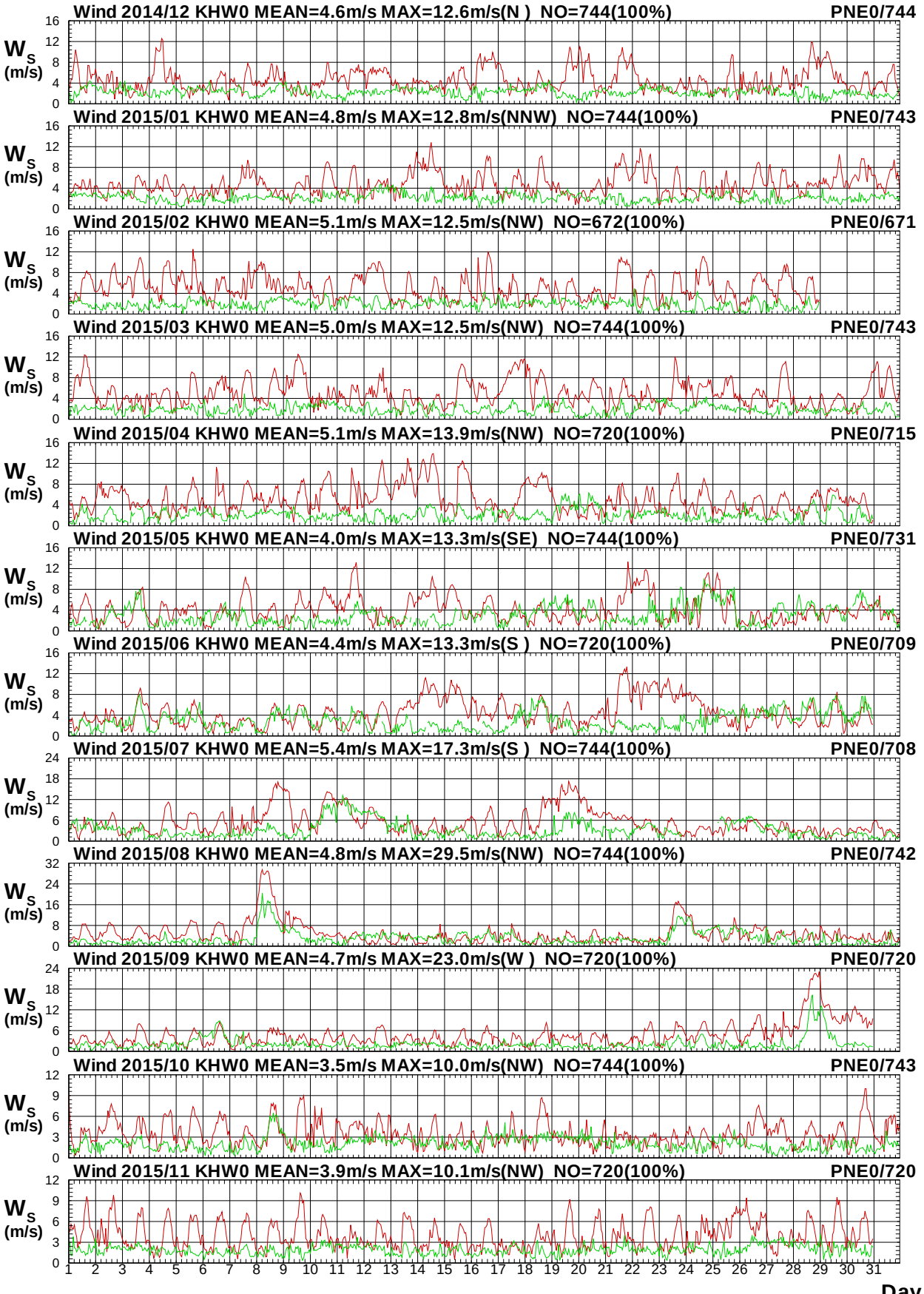

圖 7.11a　2015年每月高雄海域 W 站與屏東海域 E 站風速圖

W14CKHW0.1HA W14CPNE0.1H0 W151KHW0.1HA W151PNE0.1H0 W152KHW0.1HA W152PNE0.1H0
W153KHW0.1HA W153PNE0.1H0 W154KHW0.1HA W154PNE0.1H0 W155KHW0.1HA W155PNE0.1H0

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Wind Direction in Kao-Hsiung Seas of KHW0 at 2015

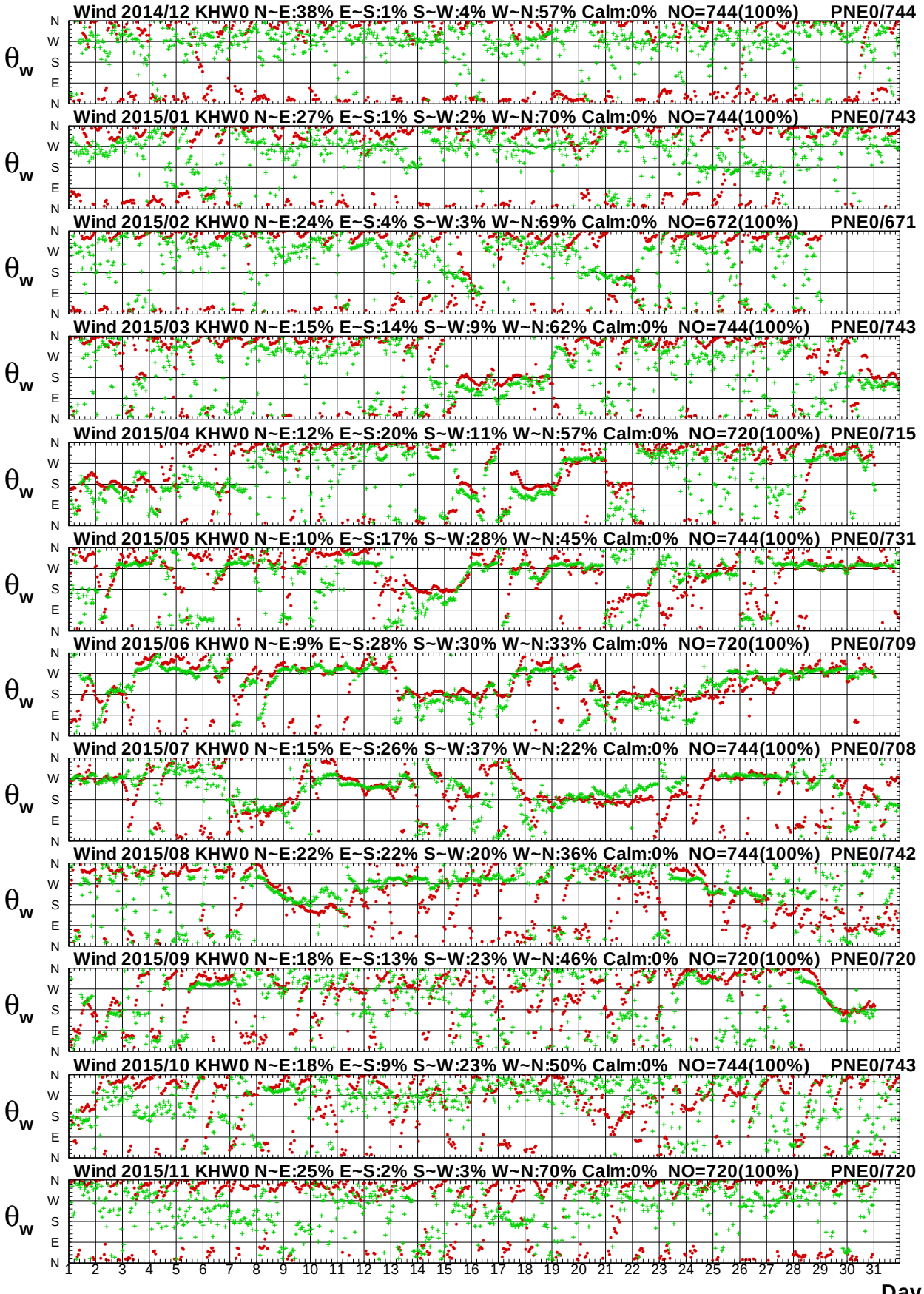

圖 7.11b　2015年每月高雄海域 W 站與屏東海域 E 站風向圖

W14CKHW0.1HA W14CPNE0.1H0 W151KHW0.1HA W151PNE0.1H0 W152KHW0.1HA W152PNE0.1H0
W153KHW0.1HA W153PNE0.1H0 W154KHW0.1HA W154PNE0.1H0 W155KHW0.1HA W155PNE0.1H0

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Wind Speed in Kao-Hsiung Seas of KHW0 at 2015

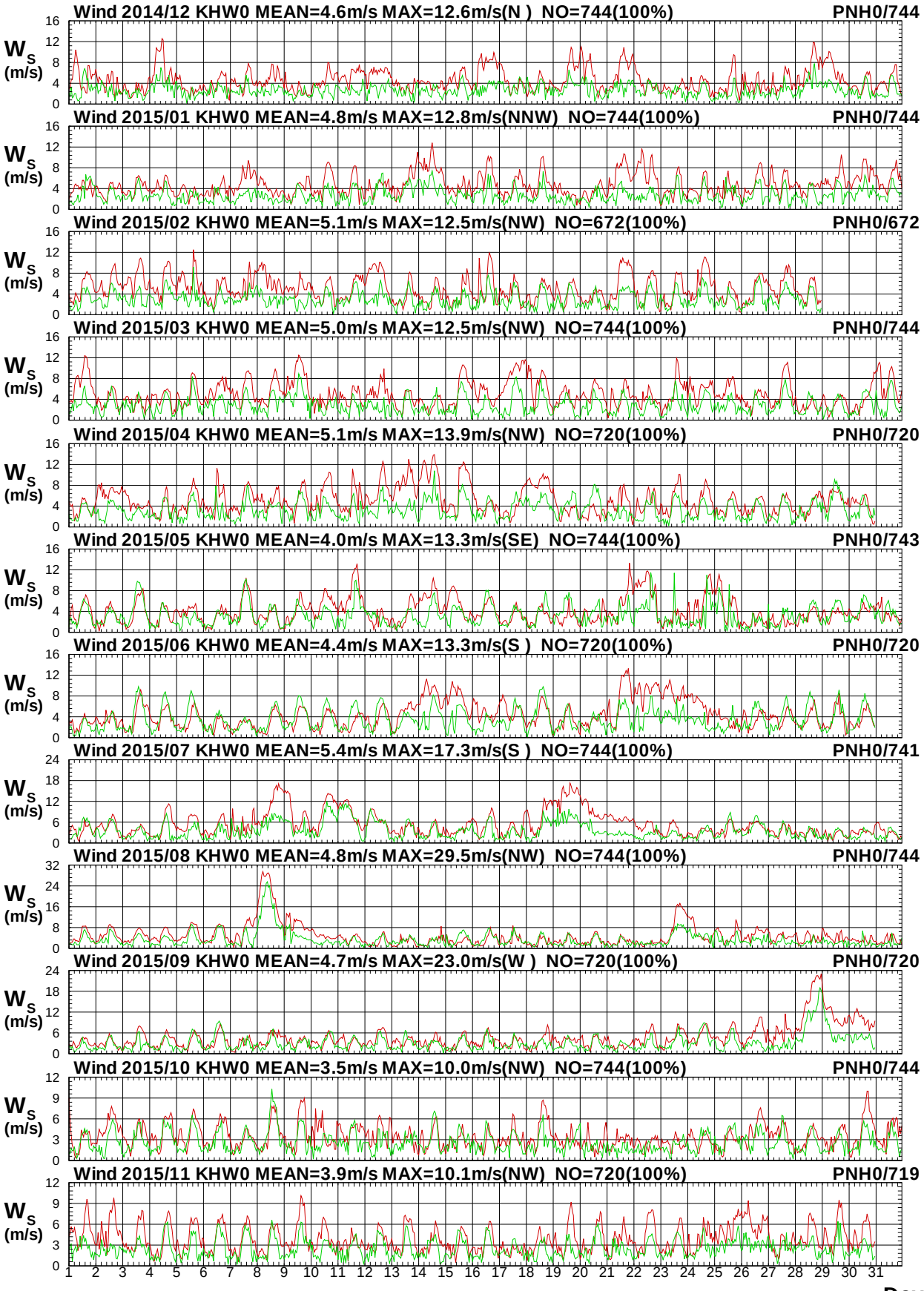

圖 7.12a　2015年每月高雄海域 W 站與屏東海域 H 站風速圖

W14CKHW0.1HA W14CPNH0.1H0 W151KHW0.1HA W151PNH0.1H0 W152KHW0.1HA W152PNH0.1H0
W153KHW0.1HA W153PNH0.1H0 W154KHW0.1HA W154PNH0.1H0 W155KHW0.1HA W155PNH0.1H0

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Wind Direction in Kao-Hsiung Seas of KHW0 at 2015

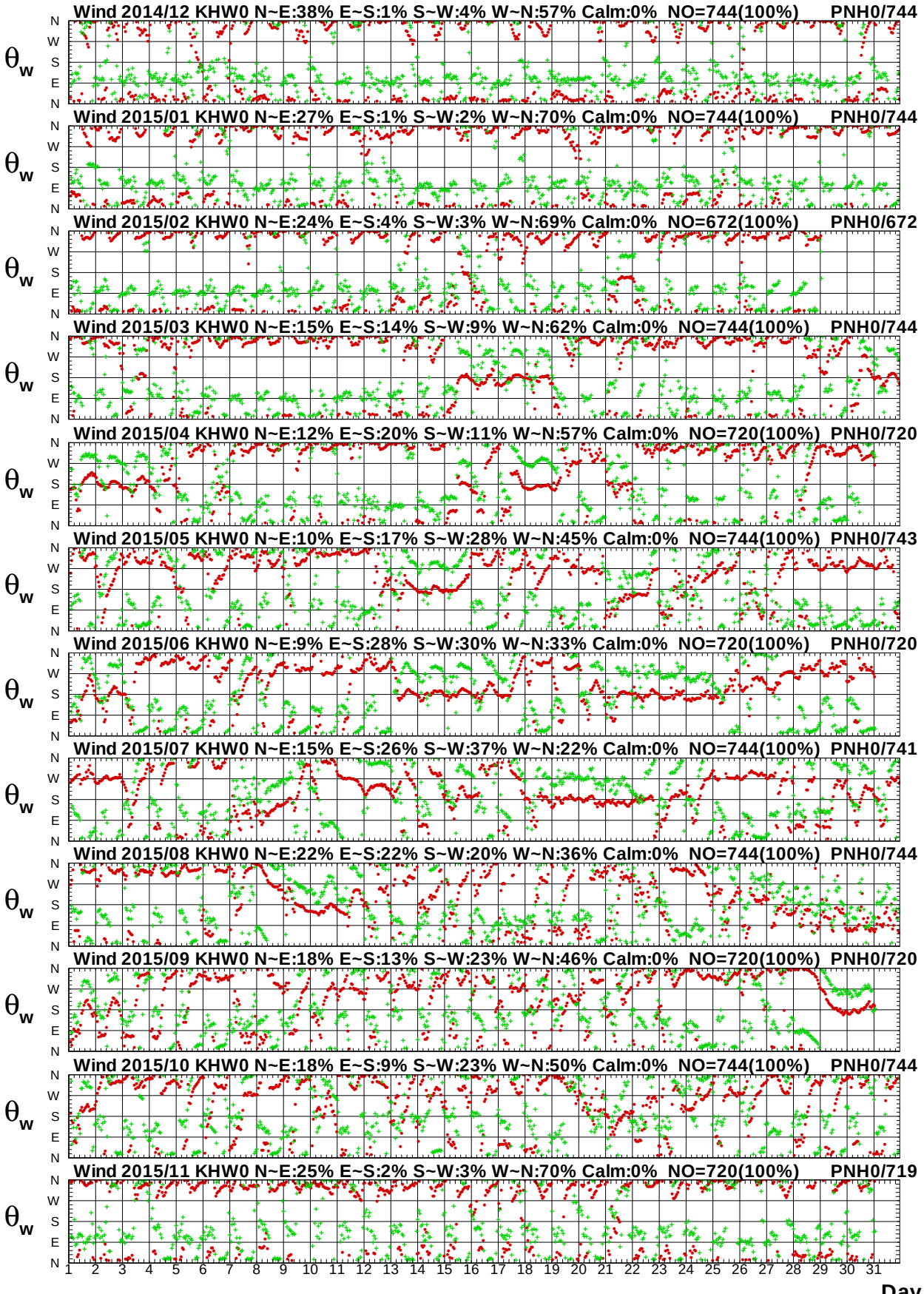

圖 7.12b　2015年每月高雄海域 W 站與屏東海域 H 站風向圖

W14CKHW0.1HA W14CPNH0.1H0 W151KHW0.1HA W151PNH0.1H0 W152KHW0.1HA W152PNH0.1H0
W153KHW0.1HA W153PNH0.1H0 W154KHW0.1HA W154PNH0.1H0 W155KHW0.1HA W155PNH0.1H0

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Wind Speed in Kao-Hsiung Seas of KHW0 at 2015

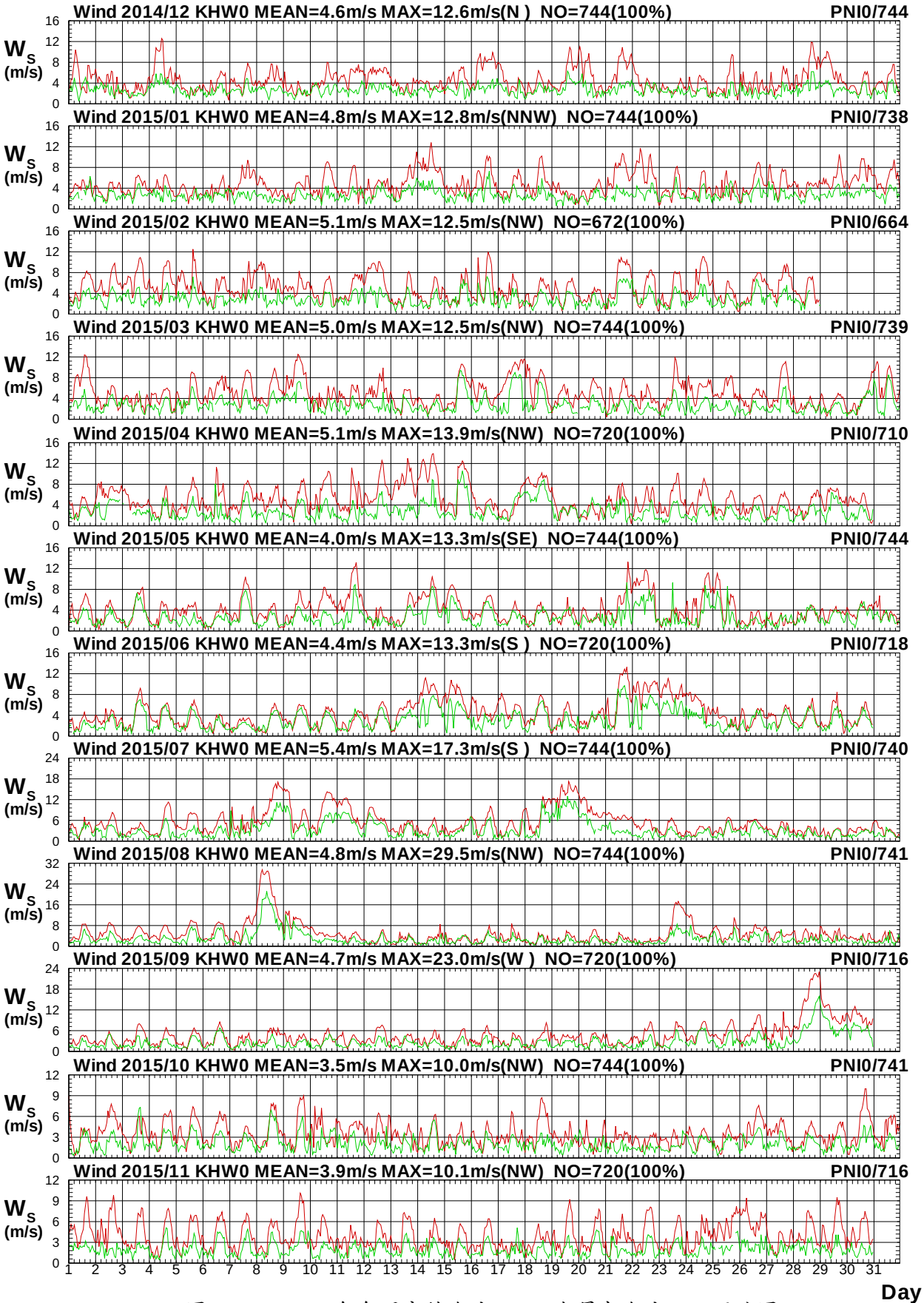

圖7.13a　2015年每月高雄海域 W 站與屏東海域 I 站風速圖

W14CKHW0.1HA W14CPNI0.1H0 W151KHW0.1HA W151PNI0.1H0 W152KHW0.1HA W152PNI0.1H0
W153KHW0.1HA W153PNI0.1H0 W154KHW0.1HA W154PNI0.1H0 W155KHW0.1HA W155PNI0.1H0

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Wind Direction in Kao-Hsiung Seas of KHW0 at 2015

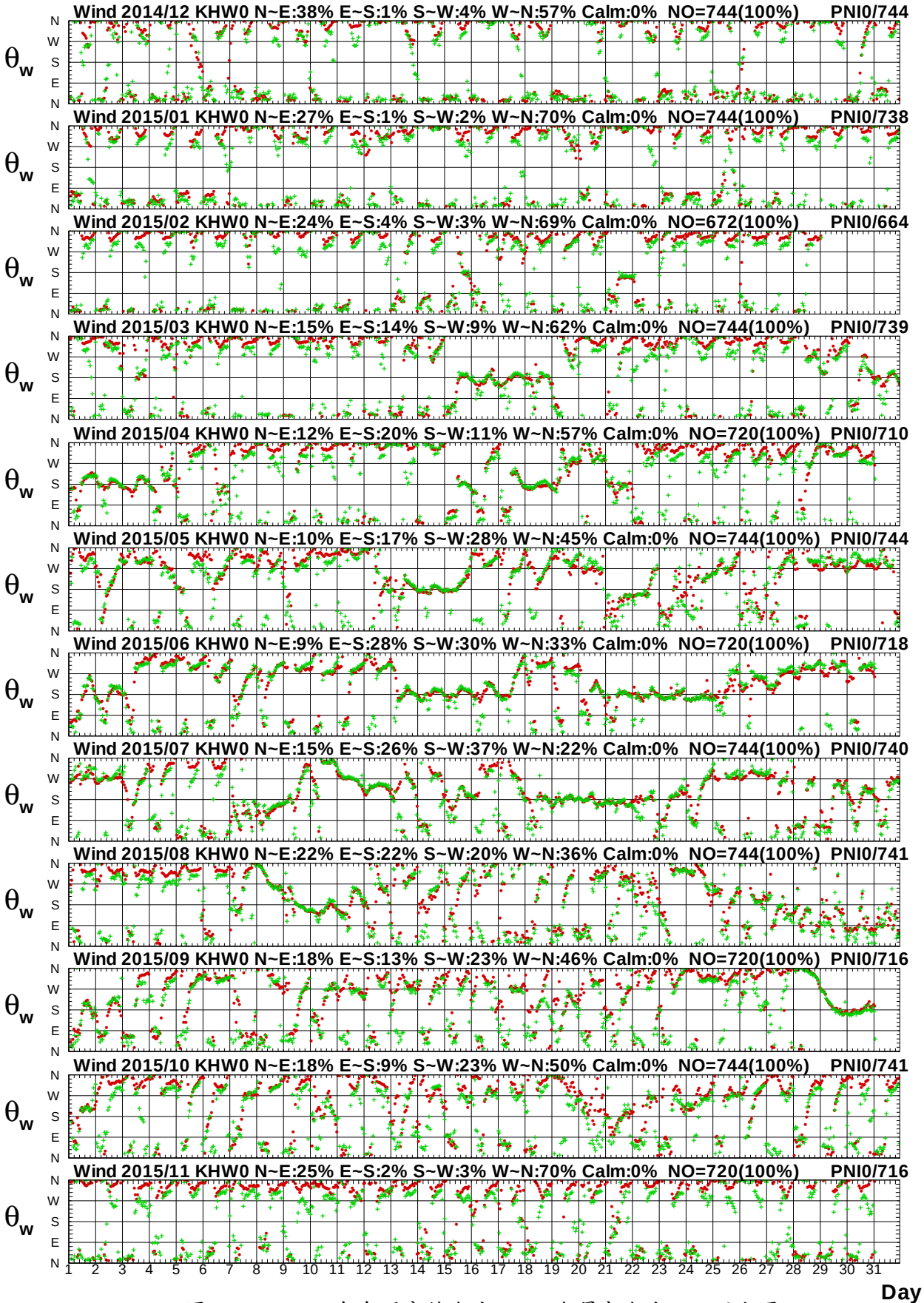

圖7.13b　2015年每月高雄海域 W 站與屏東海域 I 站風向圖

Wind Speed in Kao-Hsiung Seas of KHW0 at 2015

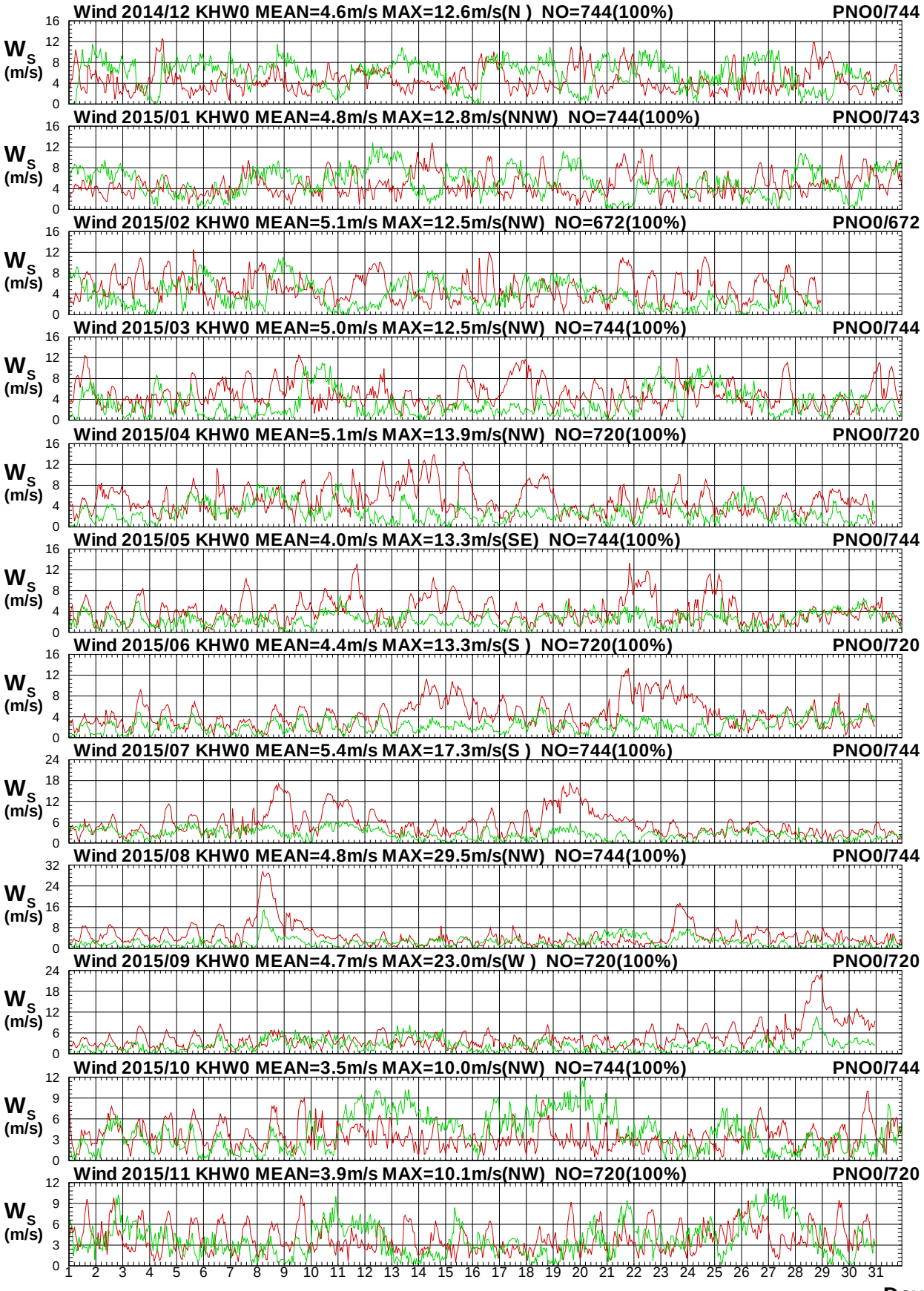

圖7.14a　2015年每月高雄海域 W 站與屏東海域 O 站風速圖

W14CKHW0.1HA W14CPNO0.1H0 W151KHW0.1HA W151PNO0.1H0 W152KHW0.1HA W152PNO0.1H0
W153KHW0.1HA W153PNO0.1H0 W154KHW0.1HA W154PNO0.1H0 W155KHW0.1HA W155PNO0.1H0

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Wind Direction in Kao-Hsiung Seas of KHW0 at 2015

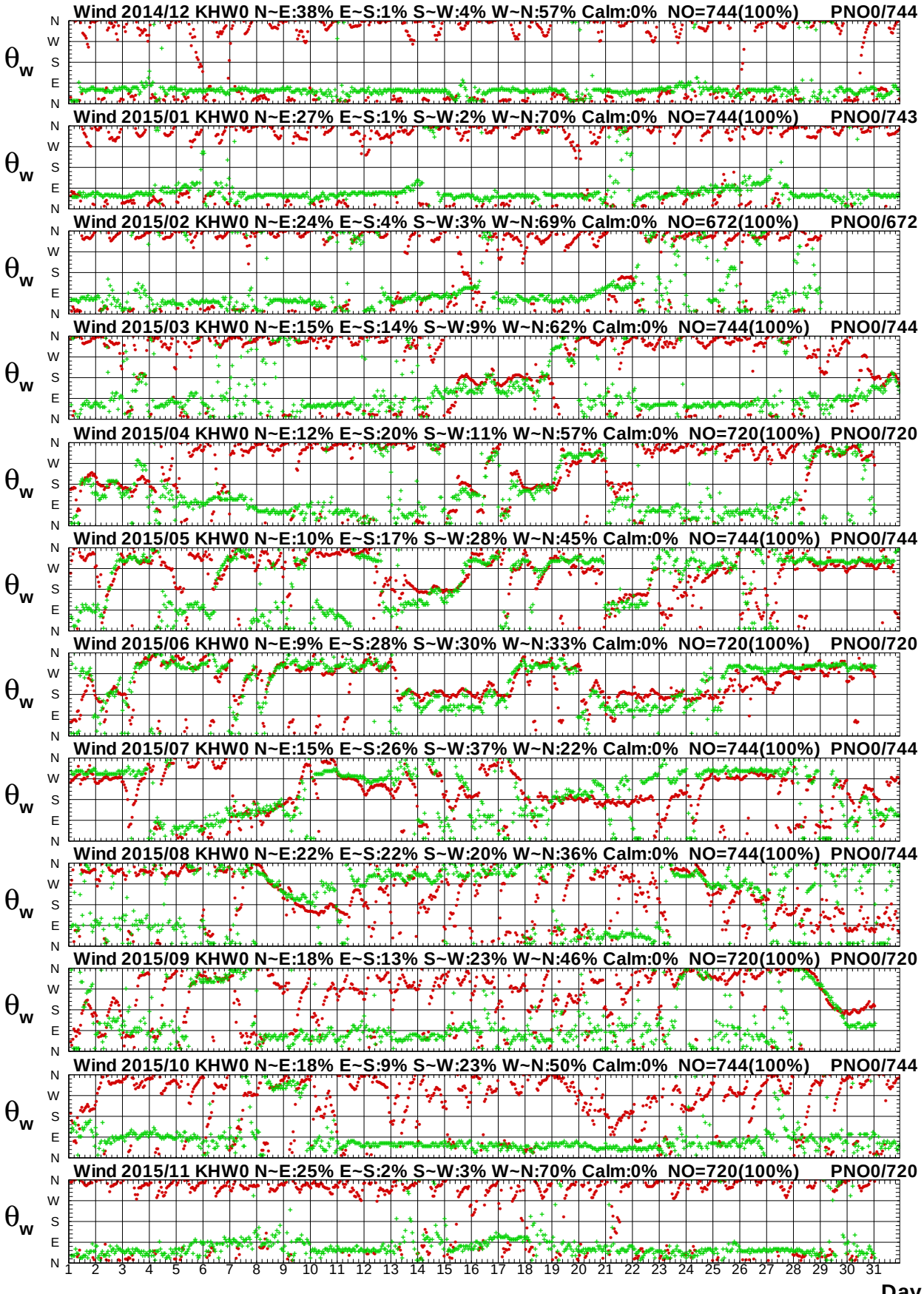

圖 7.14b　2015年每月高雄海域 W 站與屏東海域 O 站風向圖

W14CKHW0.1HA W14CPNO0.1H0 W151KHW0.1HA W151PNO0.1H0 W152KHW0.1HA W152PNO0.1H0
W153KHW0.1HA W153PNO0.1H0 W154KHW0.1HA W154PNO0.1H0 W155KHW0.1HA W155PNO0.1H0

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Wind Speed in Kao-Hsiung Seas of KHW0 at 2015

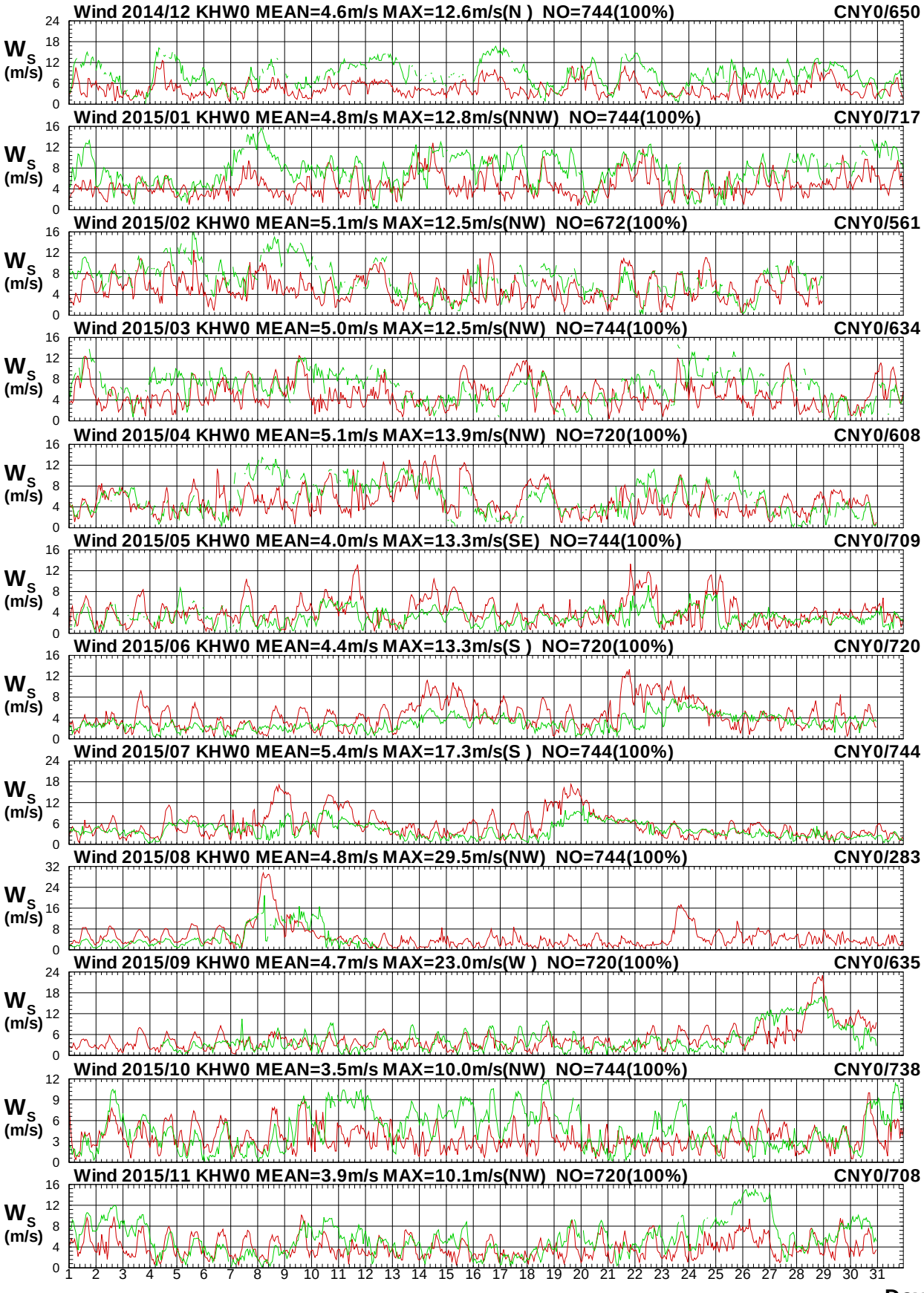

圖7.15a　2015年每月高雄海域 W 站與嘉南海域 Y 站風速圖

W14CKHW0.1HA W14CCNY0.1H0 W151KHW0.1HA W151CNY0.1H0 W152KHW0.1HA W152CNY0.1H0
W153KHW0.1HA W153CNY0.1H0 W154KHW0.1HA W154CNY0.1H0 W155KHW0.1HA W155CNY0.1H0

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Wind Direction in Kao-Hsiung Seas of KHW0 at 2015

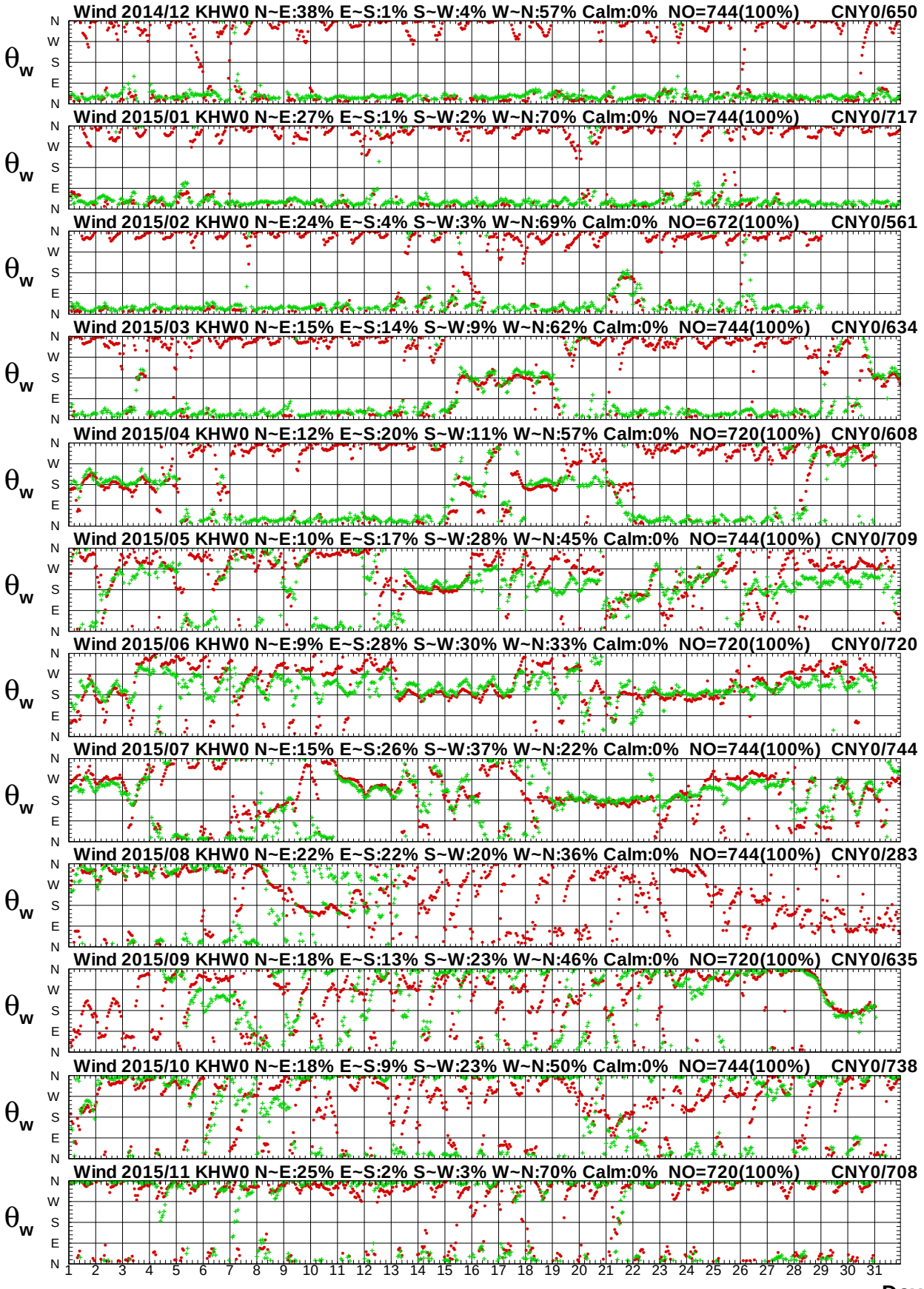

圖 7.15b　2015年每月高雄海域 W 站與嘉南海域 Y 站風向圖

W14CKHW0.1HA W14CCNY0.1H0 W151KHW0.1HA W151CNY0.1H0 W152KHW0.1HA W152CNY0.1H0
W153KHW0.1HA W153CNY0.1H0 W154KHW0.1HA W154CNY0.1H0 W155KHW0.1HA W155CNY0.1H0

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Wind Speed in Kao-Hsiung Seas of KHW0 at 2015

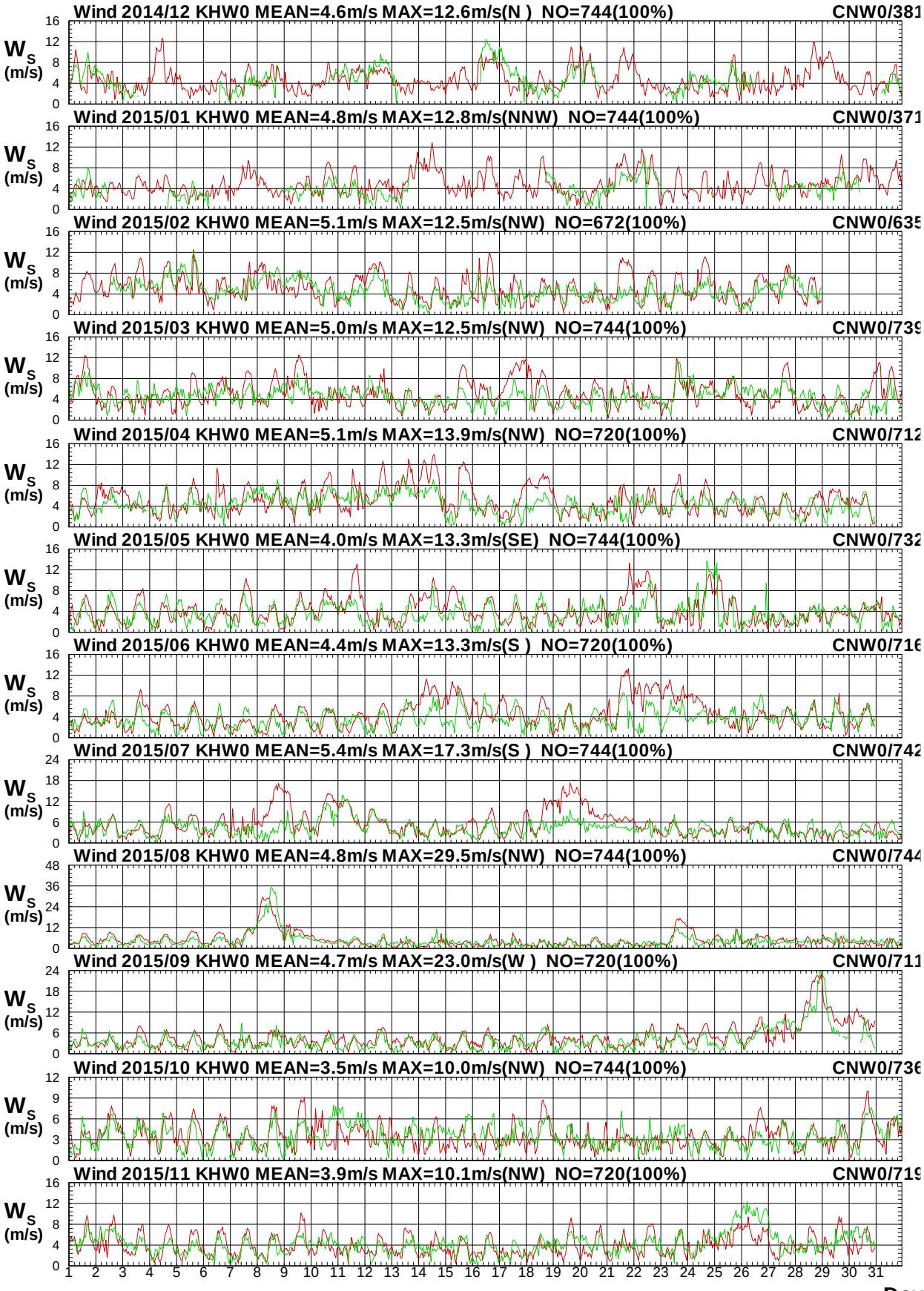

圖 7.16a　2015年每月高雄海域 W 站與嘉南海域 W 站風速圖

W14CKHW0.1HA W14CCNW0.1H0 W151KHW0.1HA W151CNW0.1H0 W152KHW0.1HA W152CNW0.1H0
W153KHW0.1HA W153CNW0.1H0 W154KHW0.1HA W154CNW0.1H0 W155KHW0.1HA W155CNW0.1H0

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Wind Direction in Kao-Hsiung Seas of KHW0 at 2015

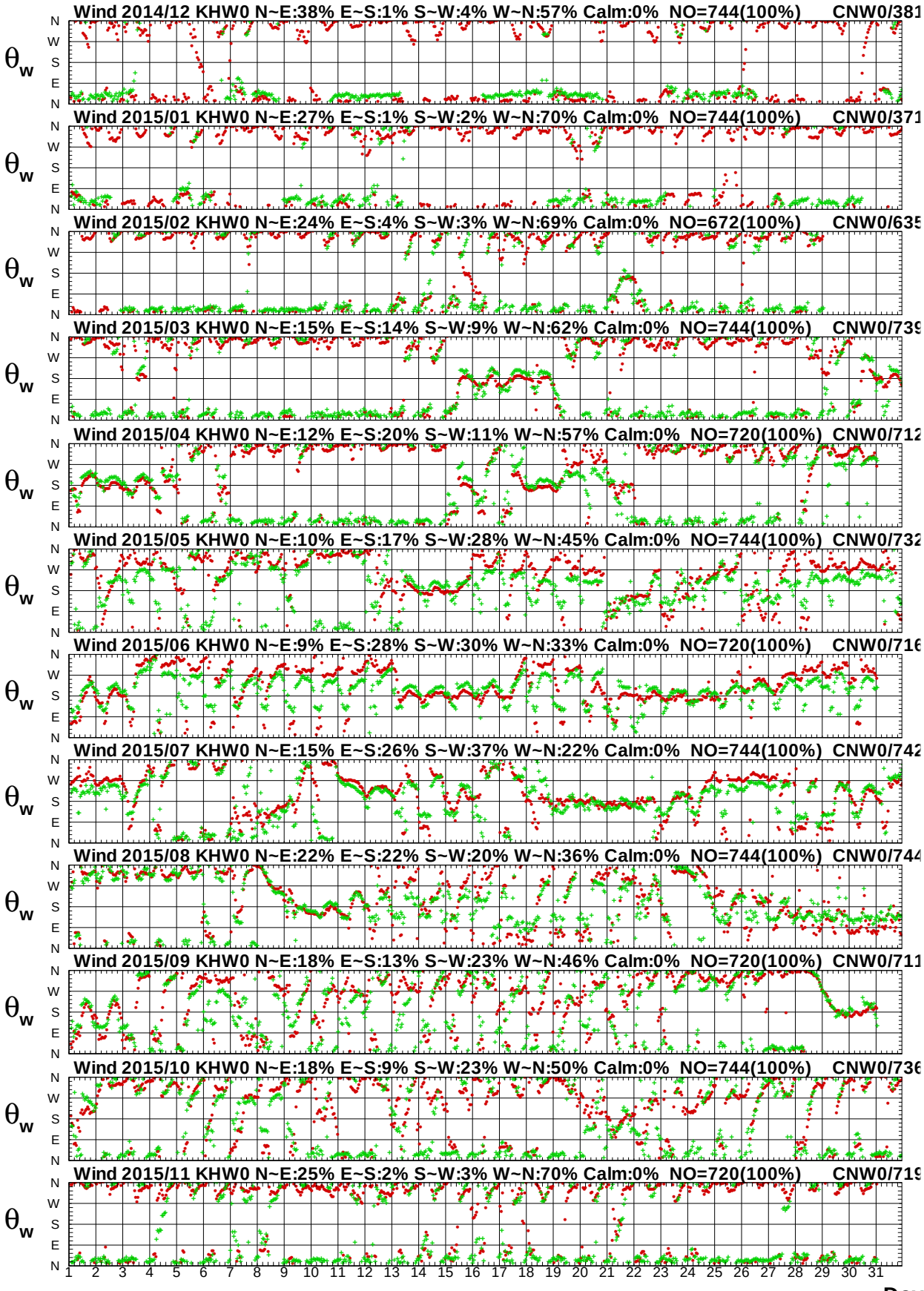

圖 7.16b　2015年每月高雄海域 W 站與嘉南海域 W 站風向圖

W14CKHW0.1HA W14CCNW0.1H0 W151KHW0.1HA W151CNW0.1H0 W152KHW0.1HA W152CNW0.1H0
W153KHW0.1HA W153CNW0.1H0 W154KHW0.1HA W154CNW0.1H0 W155KHW0.1HA W155CNW0.1H0

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Wind Speed in Kao-Hsiung Seas of KHW0 at 2015

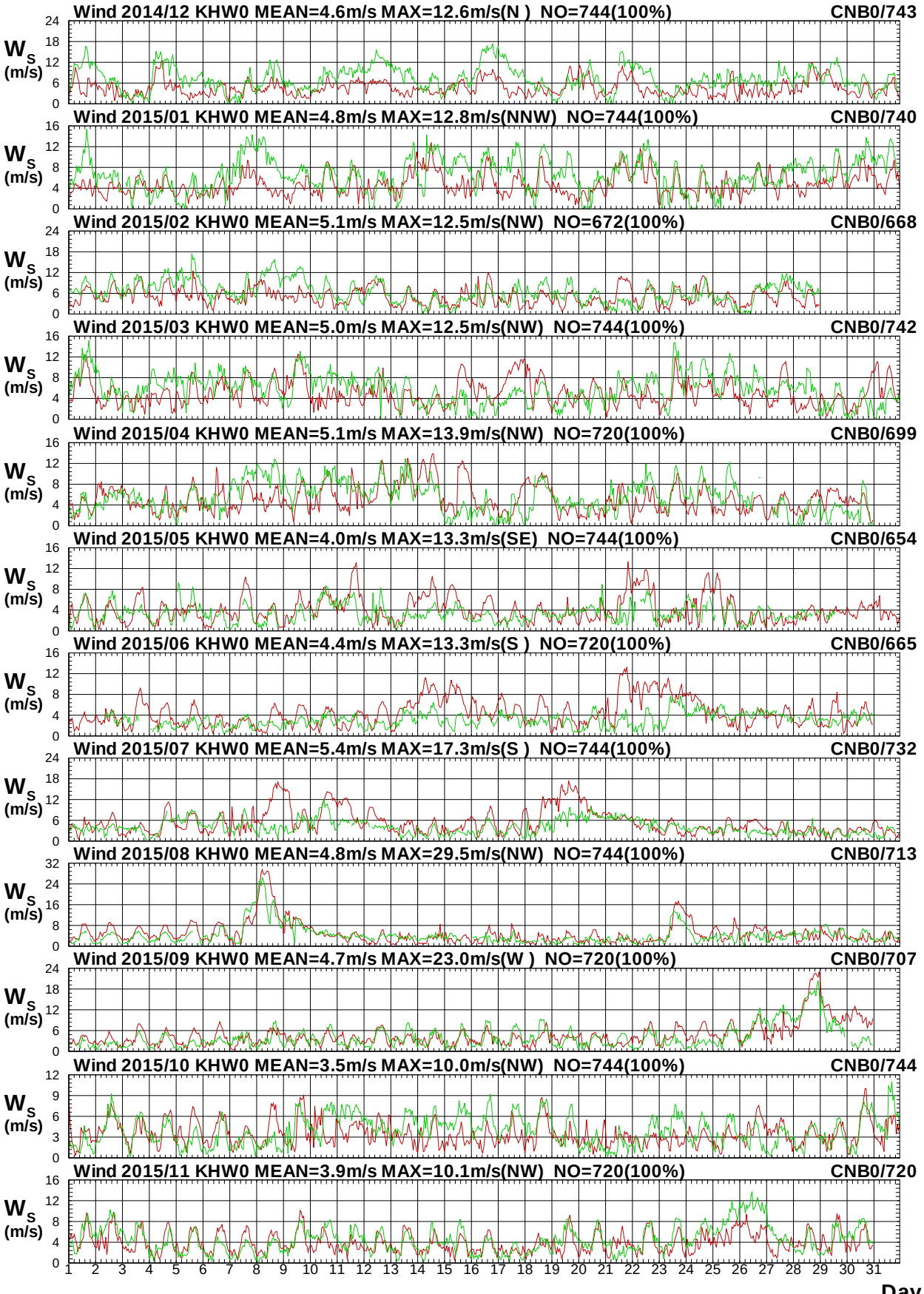

圖 7.17a　2015年每月高雄海域 W 站與嘉南海域 B 站風速圖

W14CKHW0.1HA W14CCNB0.1H0 W151KHW0.1HA W151CNB0.1H0 W152KHW0.1HA W152CNB0.1H0
W153KHW0.1HA W153CNB0.1H0 W154KHW0.1HA W154CNB0.1H0 W155KHW0.1HA W155CNB0.1H0

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Wind Direction in Kao-Hsiung Seas of KHW0 at 2015

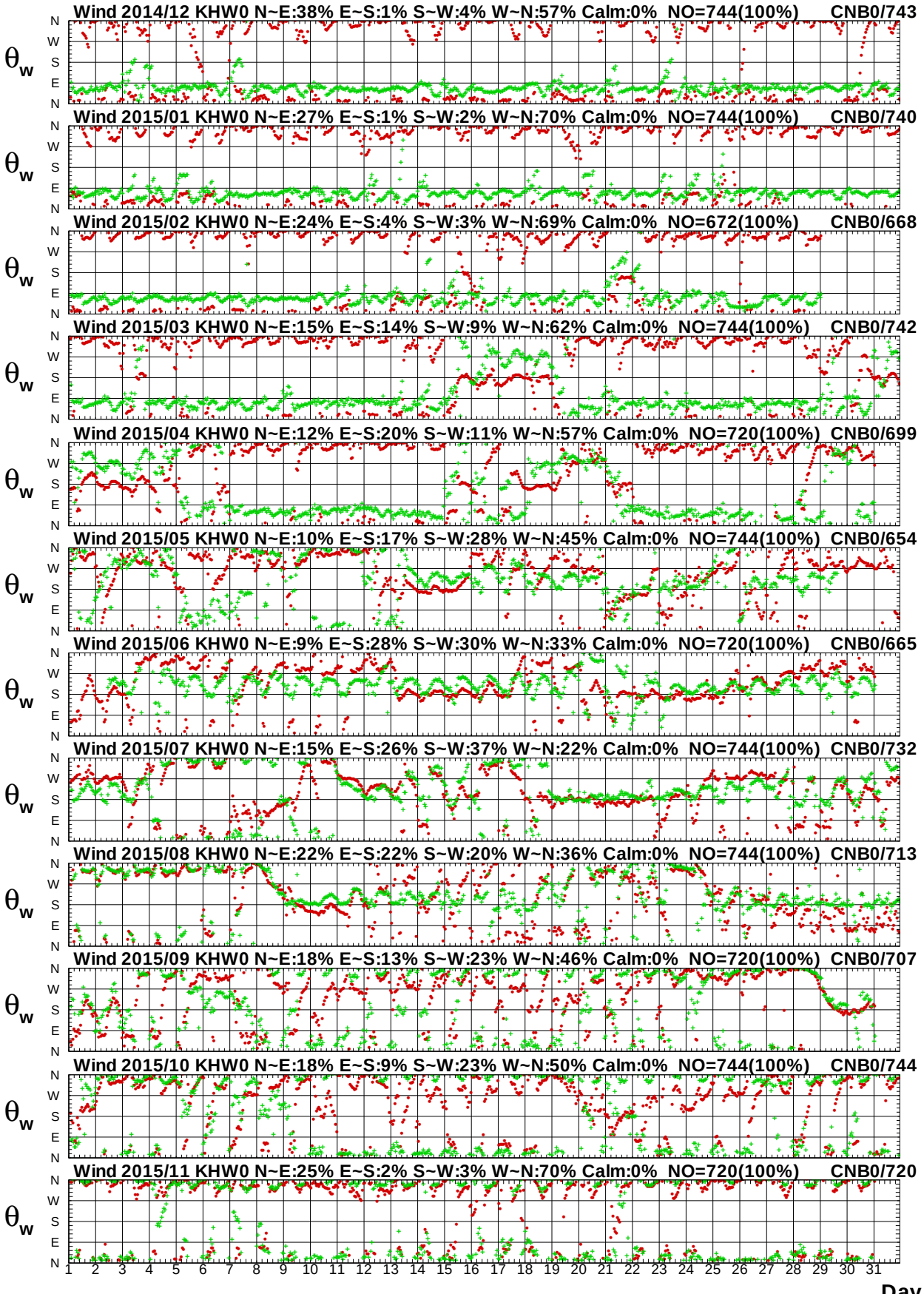

圖 7.17b　2015年每月高雄海域 W 站與嘉南海域 B 站風向圖

W14CKHW0.1HA W14CCNB0.1H0 W151KHW0.1HA W151CNB0.1H0 W152KHW0.1HA W152CNB0.1H0
W153KHW0.1HA W153CNB0.1H0 W154KHW0.1HA W154CNB0.1H0 W155KHW0.1HA W155CNB0.1H0

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Wind Speed in Kao-Hsiung Seas of KHW0 at 2015

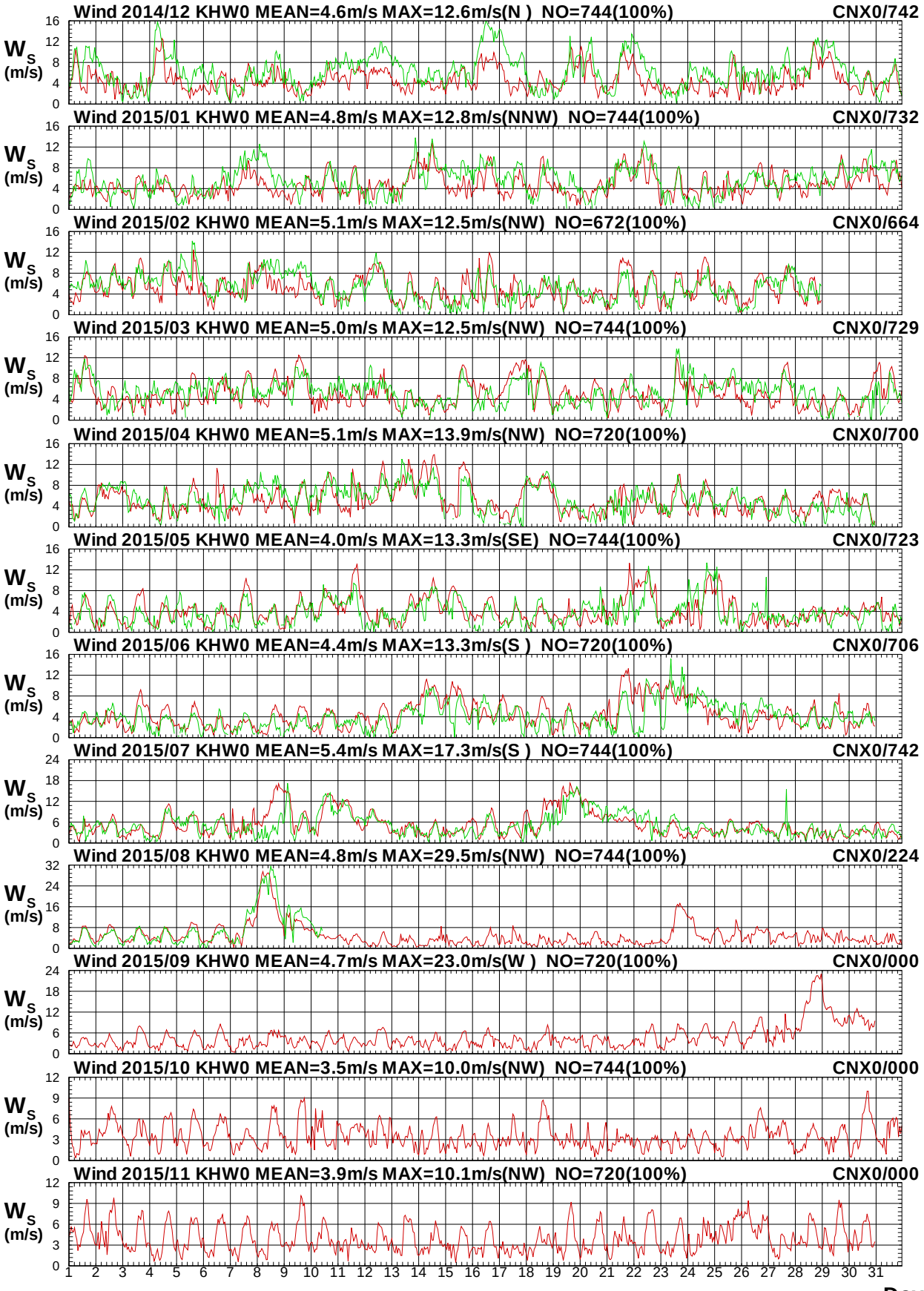

圖7.18a　2015年每月高雄海域 W 站與嘉南海域 X 站風速圖

W14CKHW0.1HA W14CCNX0.1H0 W151KHW0.1HA W151CNX0.1H0 W152KHW0.1HA W152CNX0.1H0
W153KHW0.1HA W153CNX0.1H0 W154KHW0.1HA W154CNX0.1H0 W155KHW0.1HA W155CNX0.1H0

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Wind Direction in Kao-Hsiung Seas of KHW0 at 2015

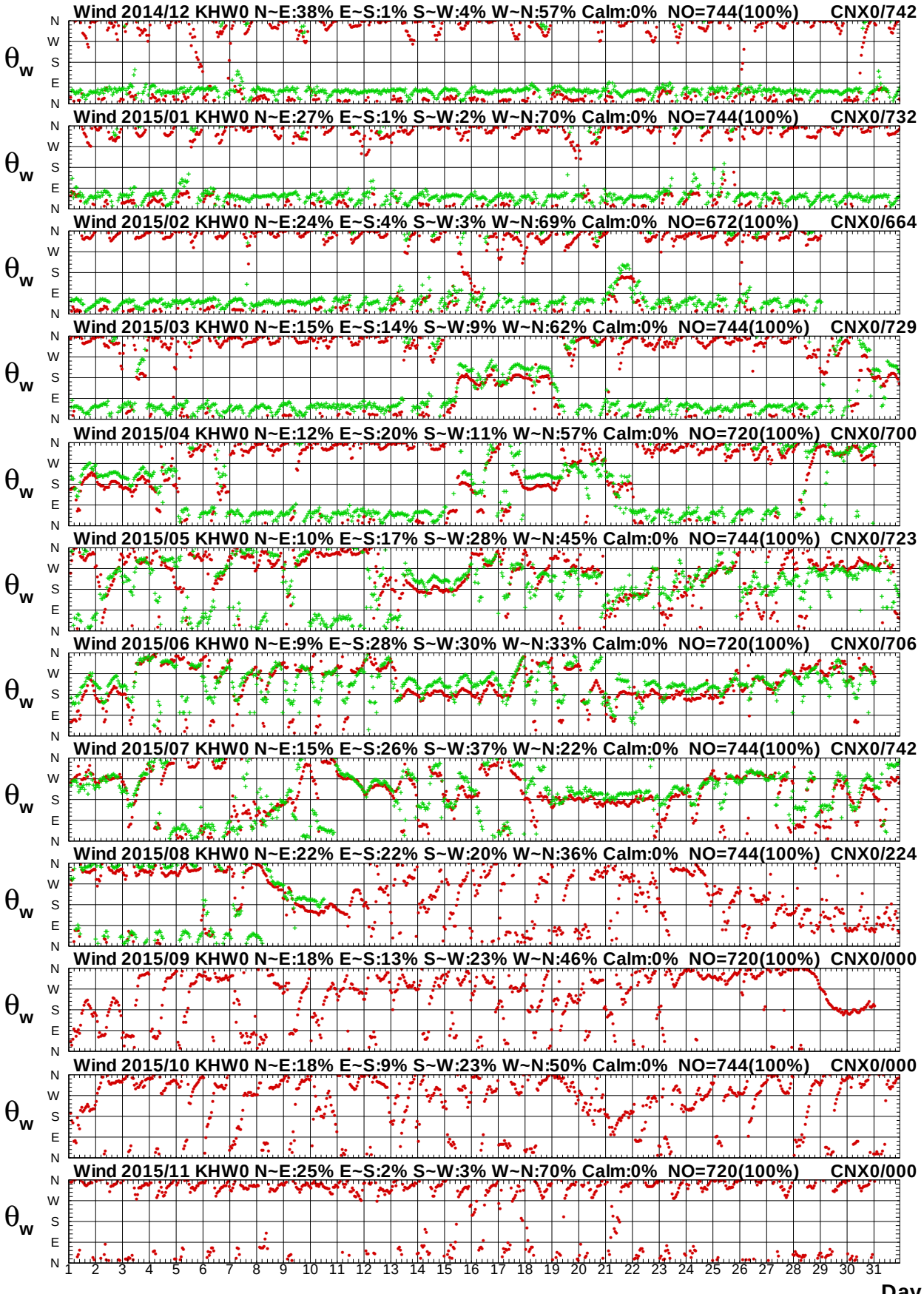

圖 7.18b　2015年每月高雄海域 W 站與嘉南海域 X 站風向圖

W14CKHW0.1HA W14CCNX0.1H0 W151KHW0.1HA W151CNX0.1H0 W152KHW0.1HA W152CNX0.1H0
W153KHW0.1HA W153CNX0.1H0 W154KHW0.1HA W154CNX0.1H0 W155KHW0.1HA W155CNX0.1H0

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Wind Speed in Kao-Hsiung Seas of KHW0 at 2015

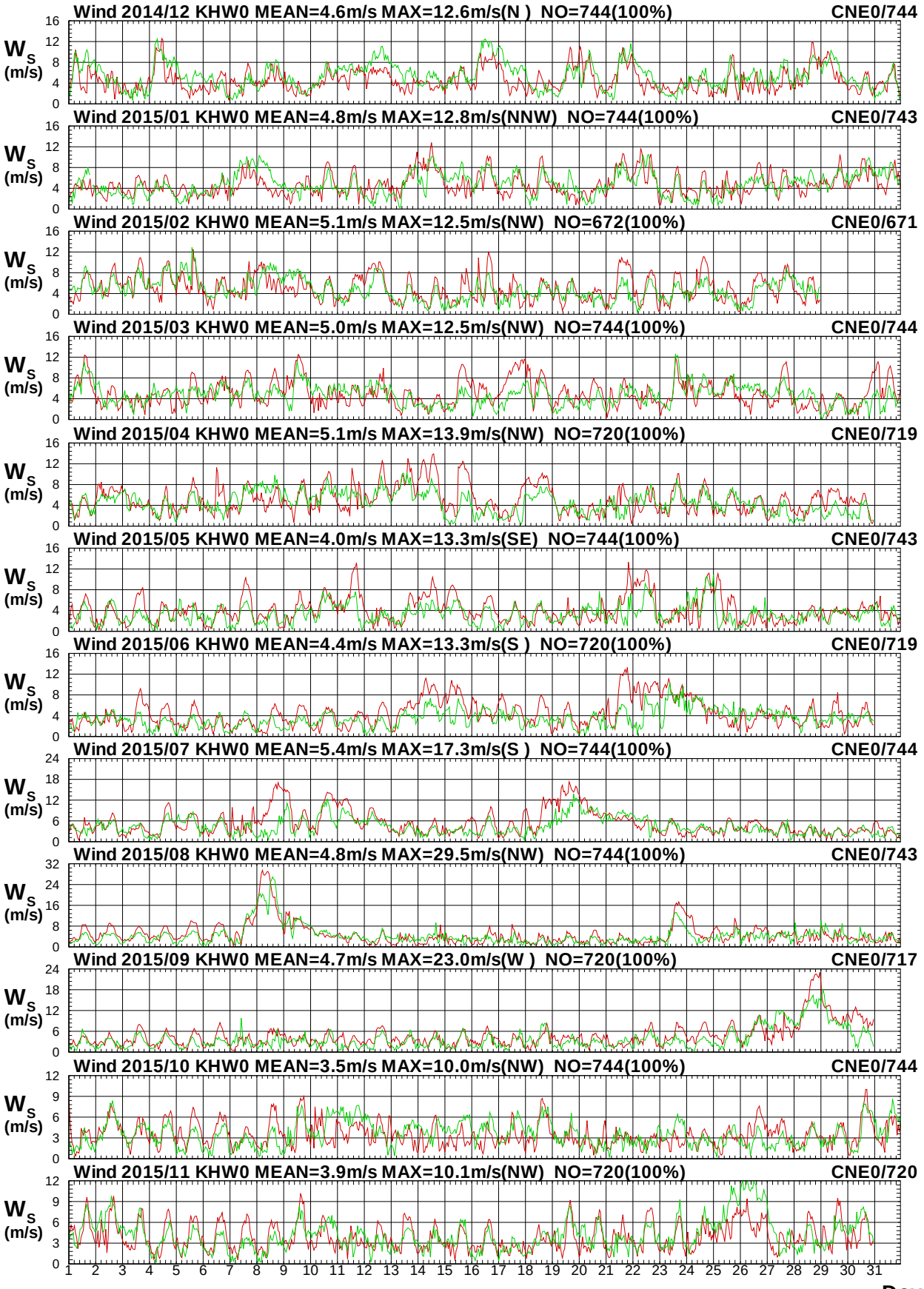

圖 7.19a　2015年每月高雄海域 W 站與嘉南海域 E 站風速圖

W14CKHW0.1HA W14CCNE0.1H0 W151KHW0.1HA W151CNE0.1H0 W152KHW0.1HA W152CNE0.1H0
W153KHW0.1HA W153CNE0.1H0 W154KHW0.1HA W154CNE0.1H0 W155KHW0.1HA W155CNE0.1H0

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Wind Direction in Kao-Hsiung Seas of KHW0 at 2015

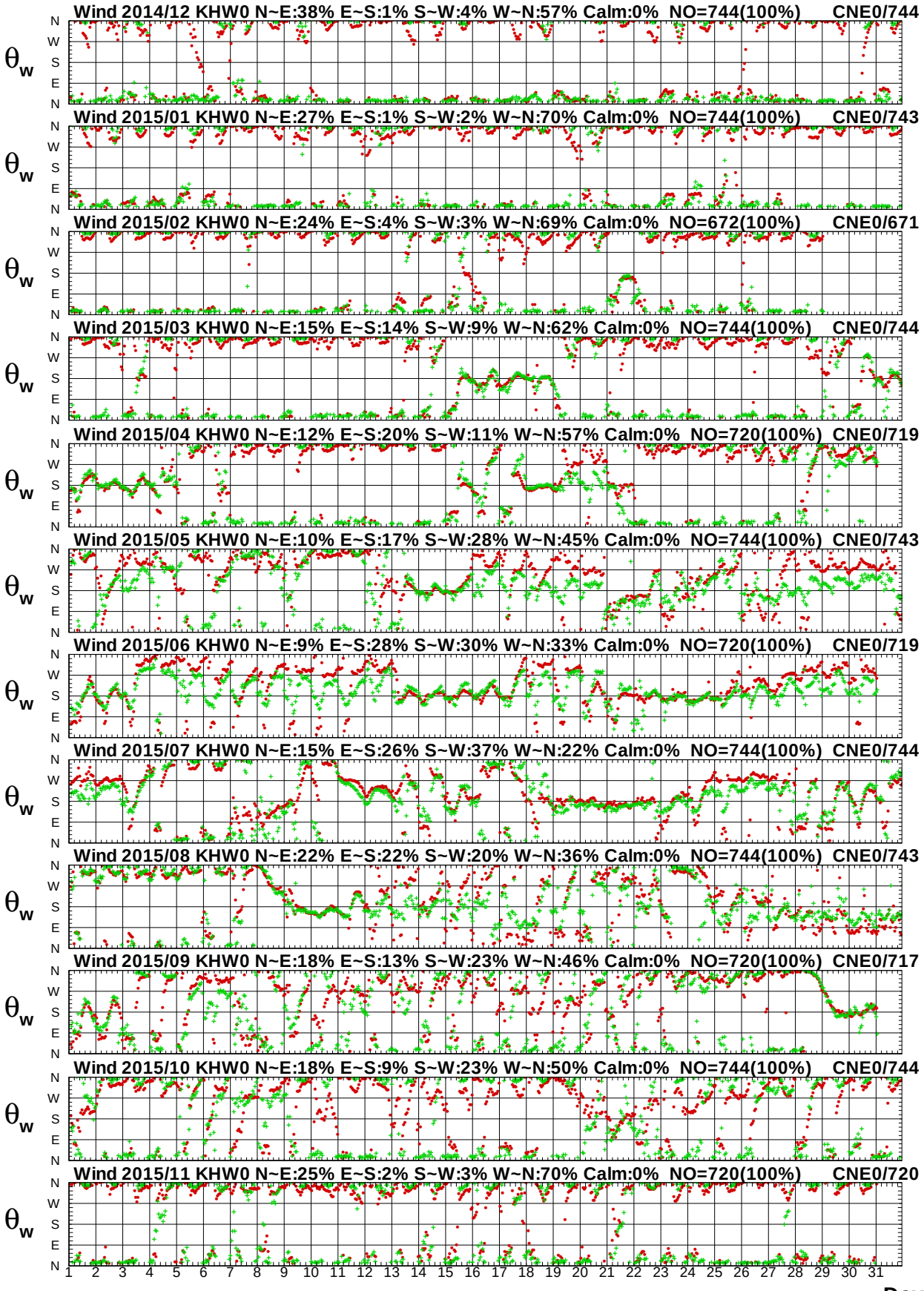

圖 7.19b　2015年每月高雄海域 W 站與嘉南海域 E 站風向圖

Wind Speed in Kao-Hsiung Seas of KHW0 at 2015

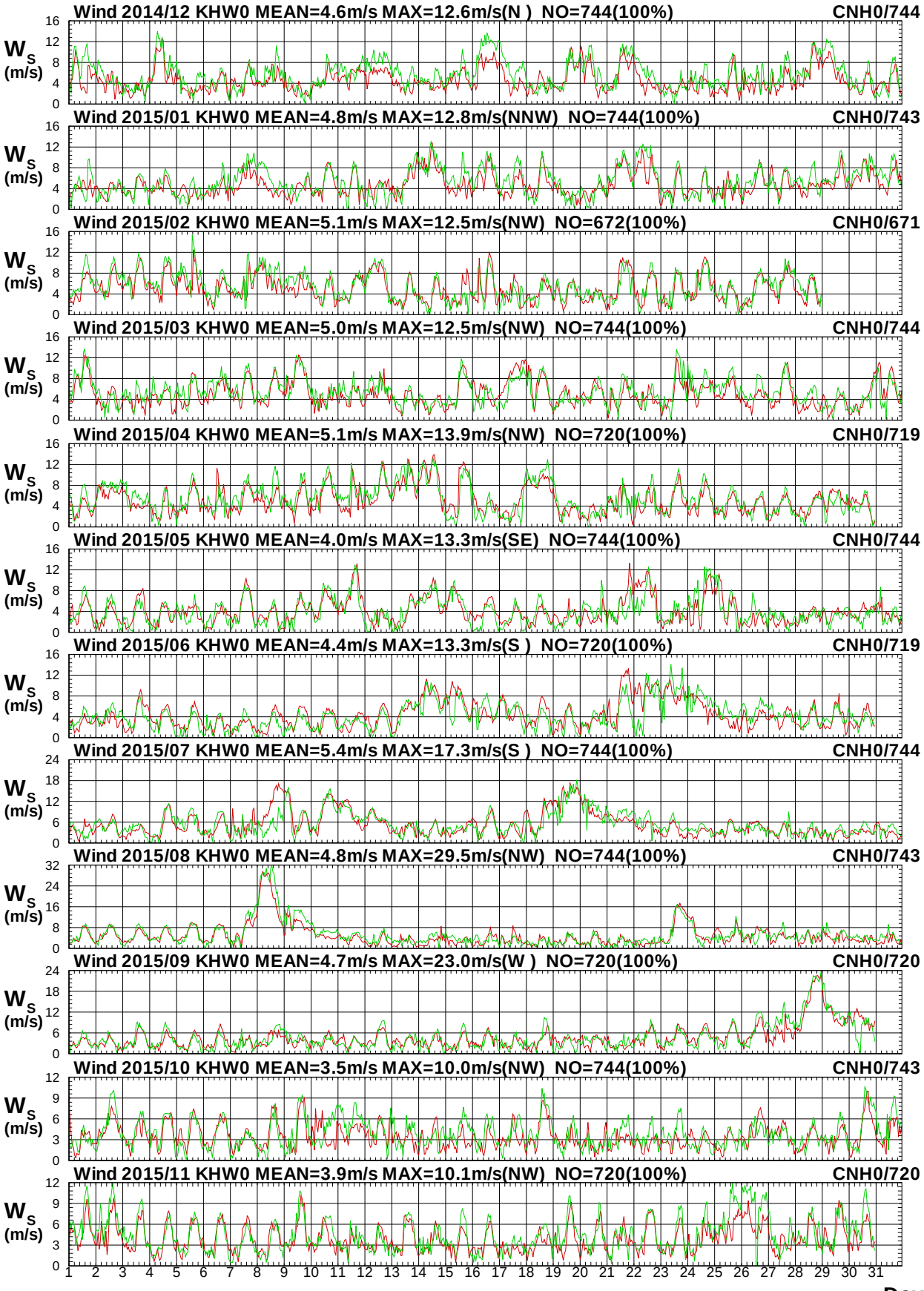

圖 7.20a　2015年每月高雄海域 W 站與嘉南海域 H 站風速圖

W14CKHW0.1HA W14CCNH0.1H0 W151KHW0.1HA W151CNH0.1H0 W152KHW0.1HA W152CNH0.1H0
W153KHW0.1HA W153CNH0.1H0 W154KHW0.1HA W154CNH0.1H0 W155KHW0.1HA W155CNH0.1H0

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Wind Direction in Kao-Hsiung Seas of KHW0 at 2015

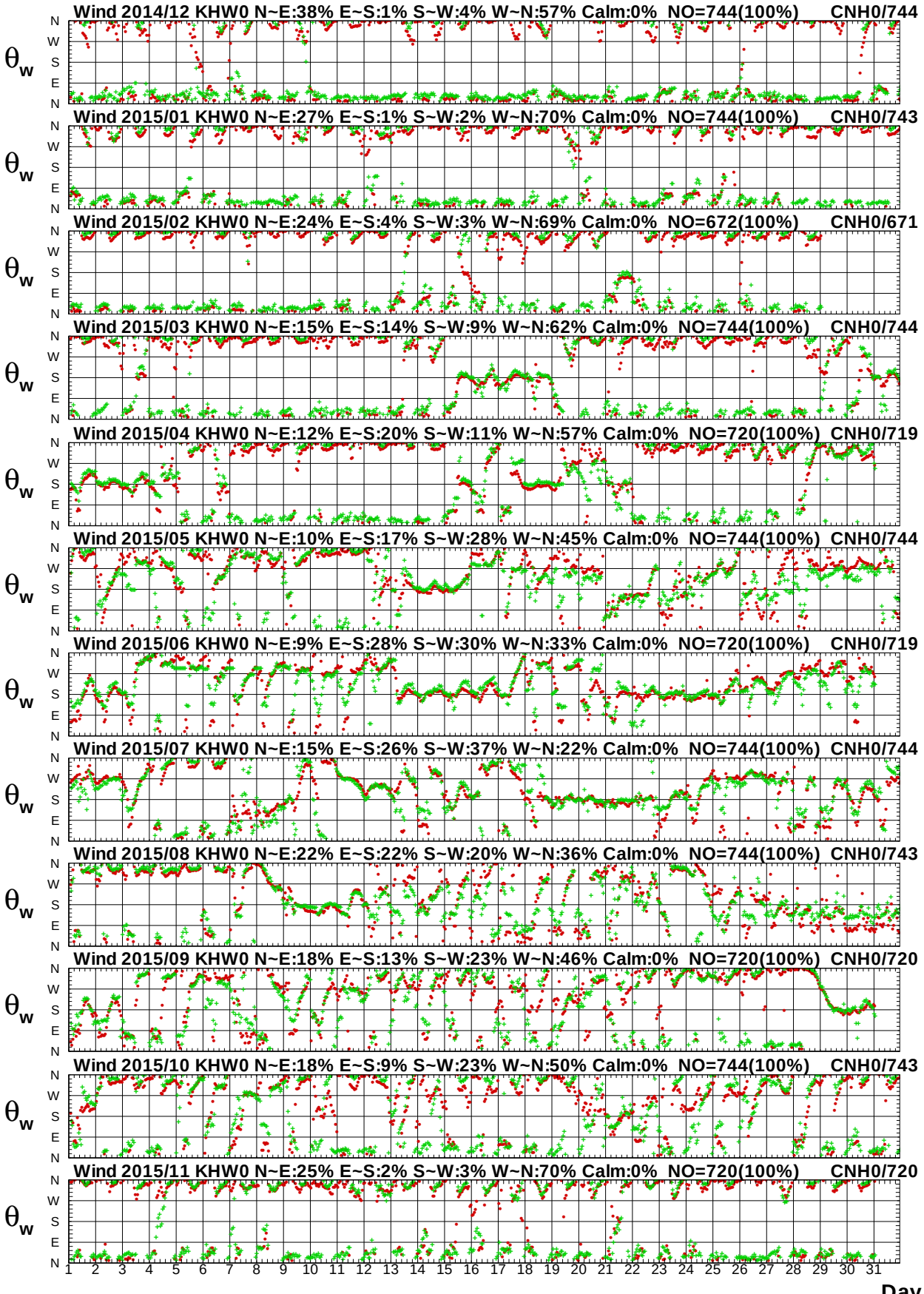

圖 7.20b　2015年每月高雄海域 W 站與嘉南海域 H 站風向圖

W14CKHW0.1HA W14CCNH0.1H0 W151KHW0.1HA W151CNH0.1H0 W152KHW0.1HA W152CNH0.1H0
W153KHW0.1HA W153CNH0.1H0 W154KHW0.1HA W154CNH0.1H0 W155KHW0.1HA W155CNH0.1H0

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Wind Speed in Kao-Hsiung Seas of KHW0 at 2015

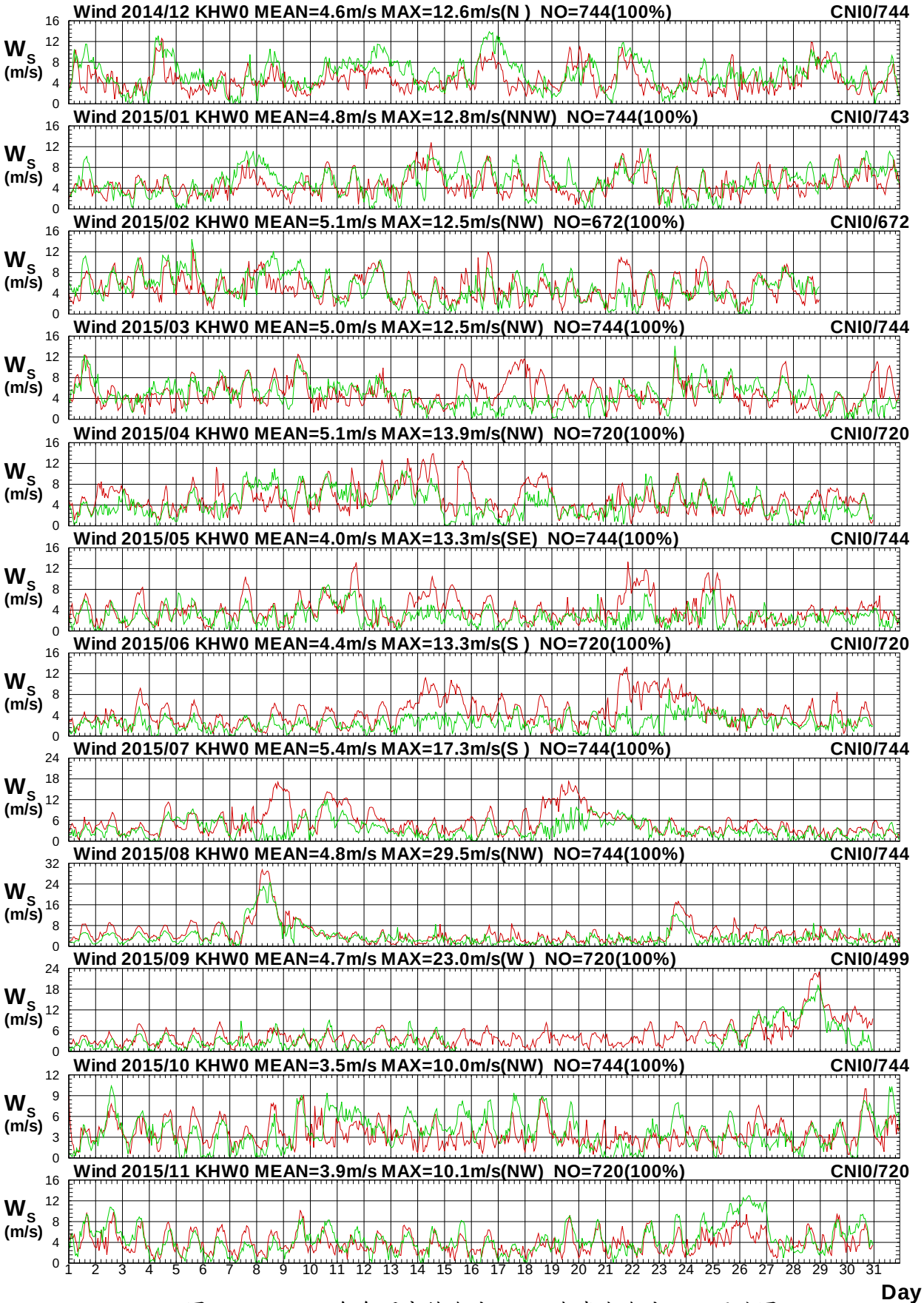

圖7.21a　2015年每月高雄海域 W 站與嘉南海域 I 站風速圖

W14CKHW0.1HA W14CCNI0.1H0 W151KHW0.1HA W151CNI0.1H0 W152KHW0.1HA W152CNI0.1H0
W153KHW0.1HA W153CNI0.1H0 W154KHW0.1HA W154CNI0.1H0 W155KHW0.1HA W155CNI0.1H0

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Wind Direction in Kao-Hsiung Seas of KHW0 at 2015

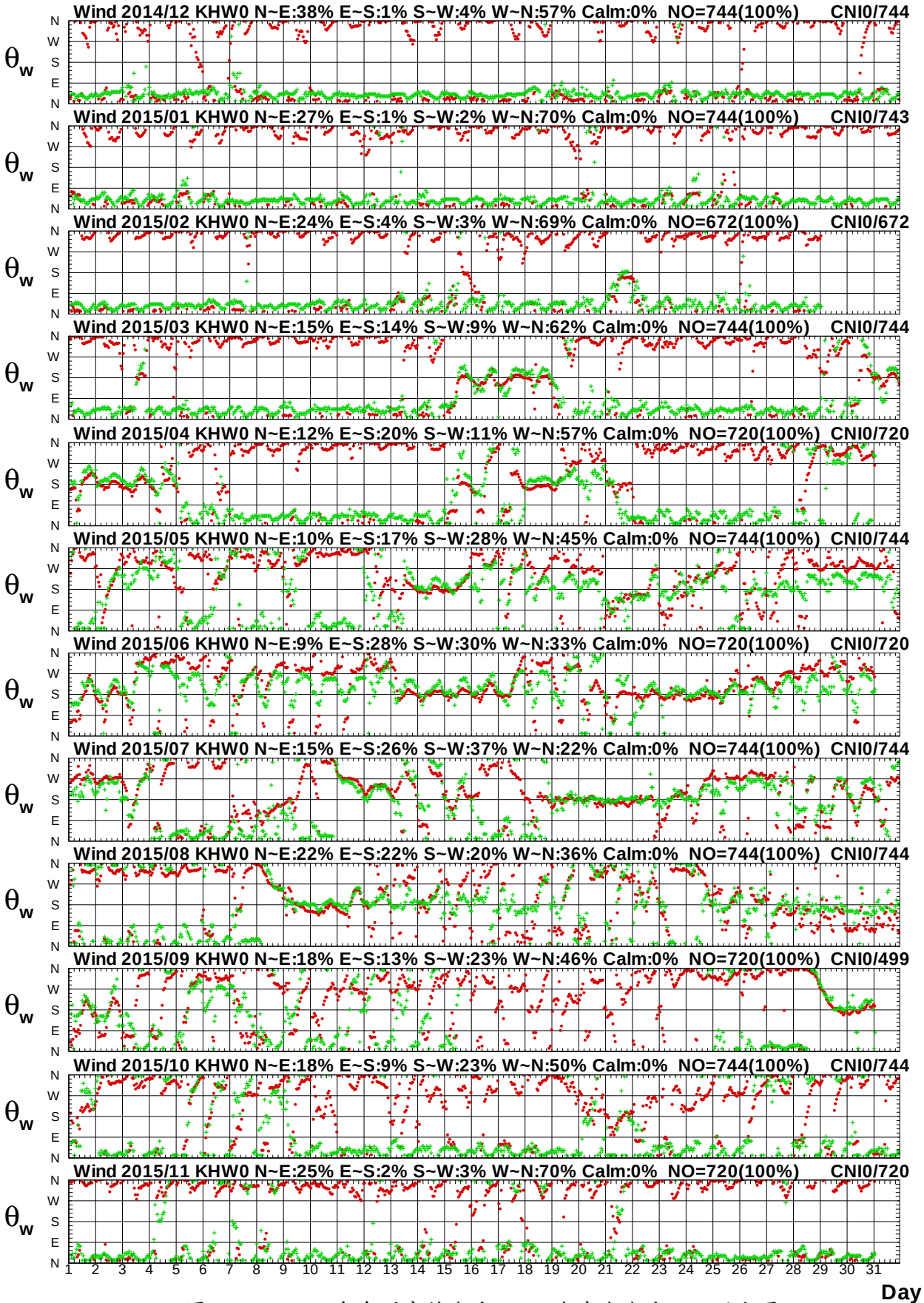

圖7.21b　2015年每月高雄海域 W 站與嘉南海域 I 站風向圖

W14CKHW0.1HA W14CCNI0.1H0 W151KHW0.1HA W151CNI0.1H0 W152KHW0.1HA W152CNI0.1H0
W153KHW0.1HA W153CNI0.1H0 W154KHW0.1HA W154CNI0.1H0 W155KHW0.1HA W155CNI0.1H0

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Wind Speed in Kao-Hsiung Seas of KHW0 at 2015

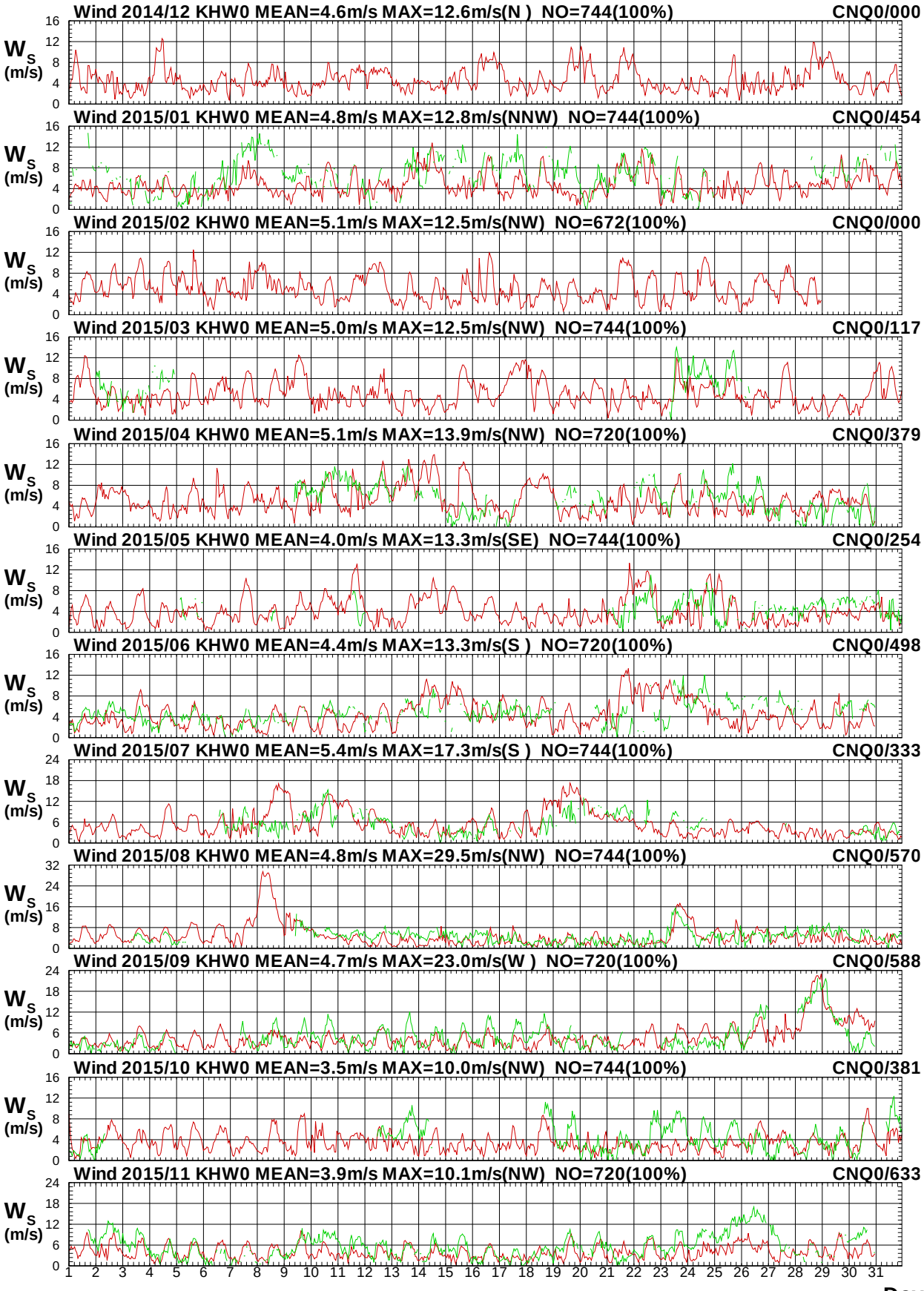

圖 7.22a　2015年每月高雄海域 W 站與嘉南海域 Q 站風速圖

Wind Direction in Kao-Hsiung Seas of KHW0 at 2015

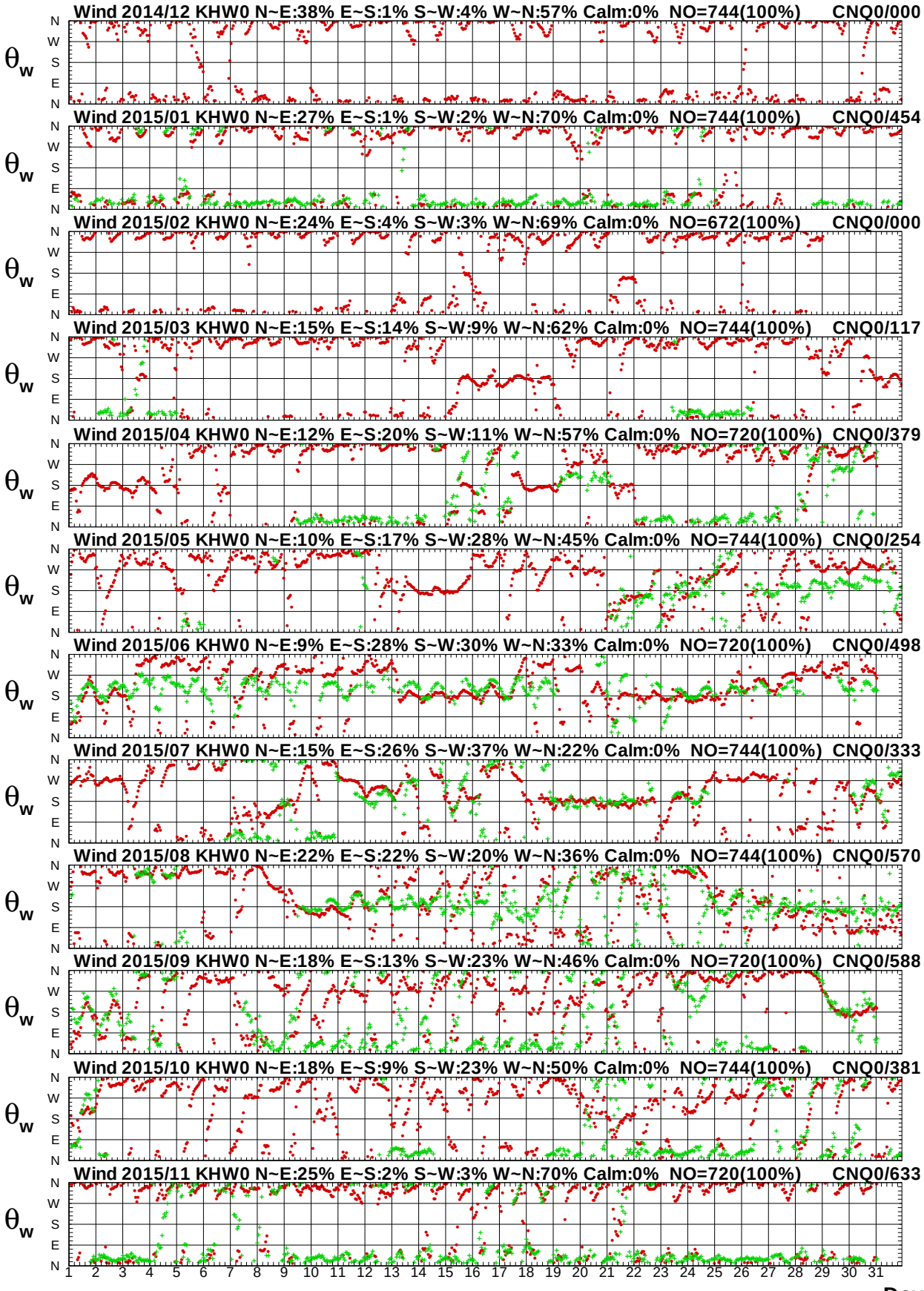

圖 7.22b　2015年每月高雄海域 W 站與嘉南海域 Q 站風向圖

W14CKHW0.1HA W14CCNQ0.1H0 W151KHW0.1HA W151CNQ0.1H0 W152KHW0.1HA W152CNQ0.1H0
W153KHW0.1HA W153CNQ0.1H0 W154KHW0.1HA W154CNQ0.1H0 W155KHW0.1HA W155CNQ0.1H0

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Wind Speed in Kao-Hsiung Seas of KHW0 at 2015

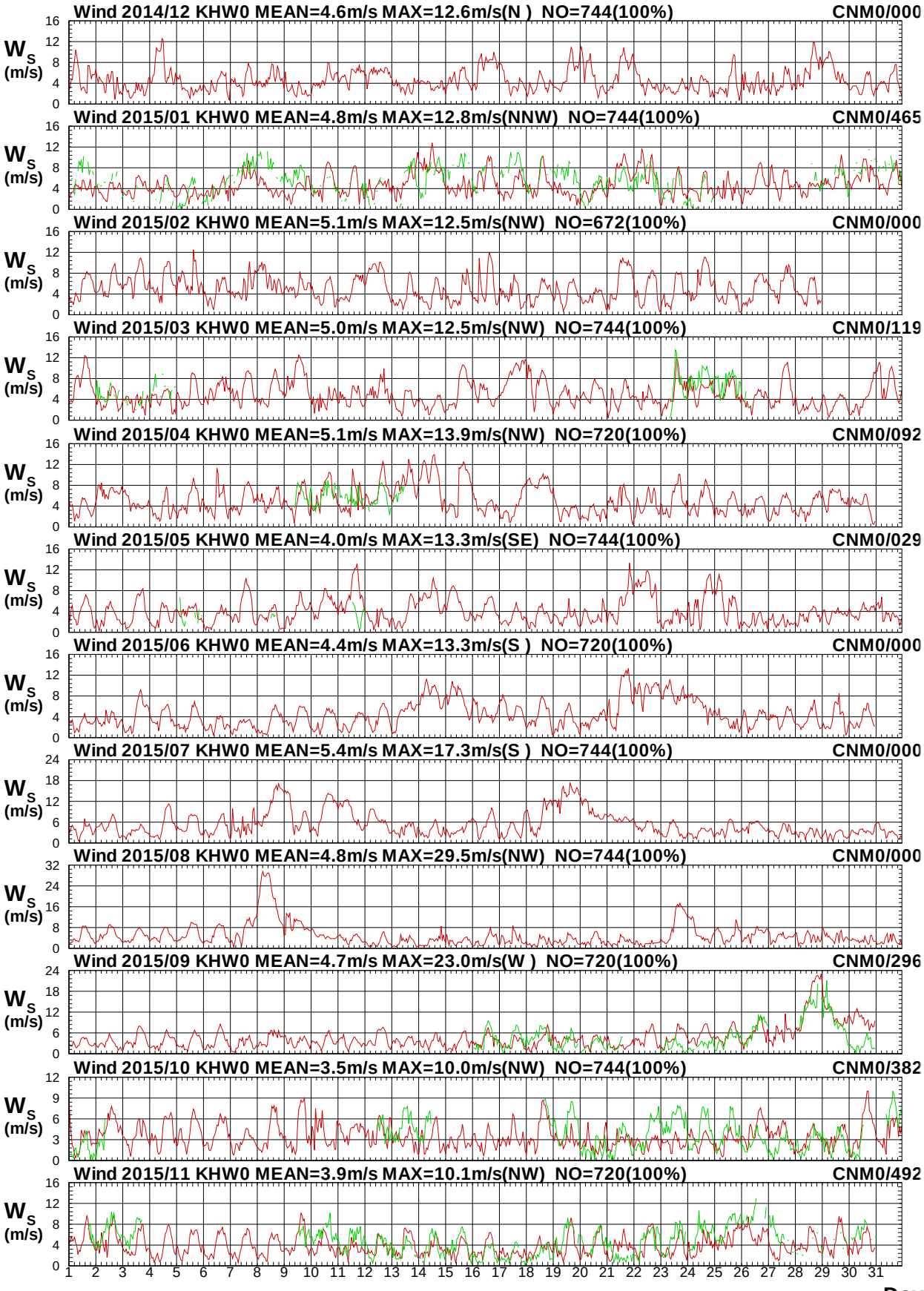

圖 7.23a　2015年每月高雄海域 W 站與嘉南海域 M 站風速圖

W14CKHW0.1HA W14CCNM0.1H0 W151KHW0.1HA W151CNM0.1H0 W152KHW0.1HA W152CNM0.1H0
W153KHW0.1HA W153CNM0.1H0 W154KHW0.1HA W154CNM0.1H0 W155KHW0.1HA W155CNM0.1H0

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Wind Direction in Kao-Hsiung Seas of KHW0 at 2015

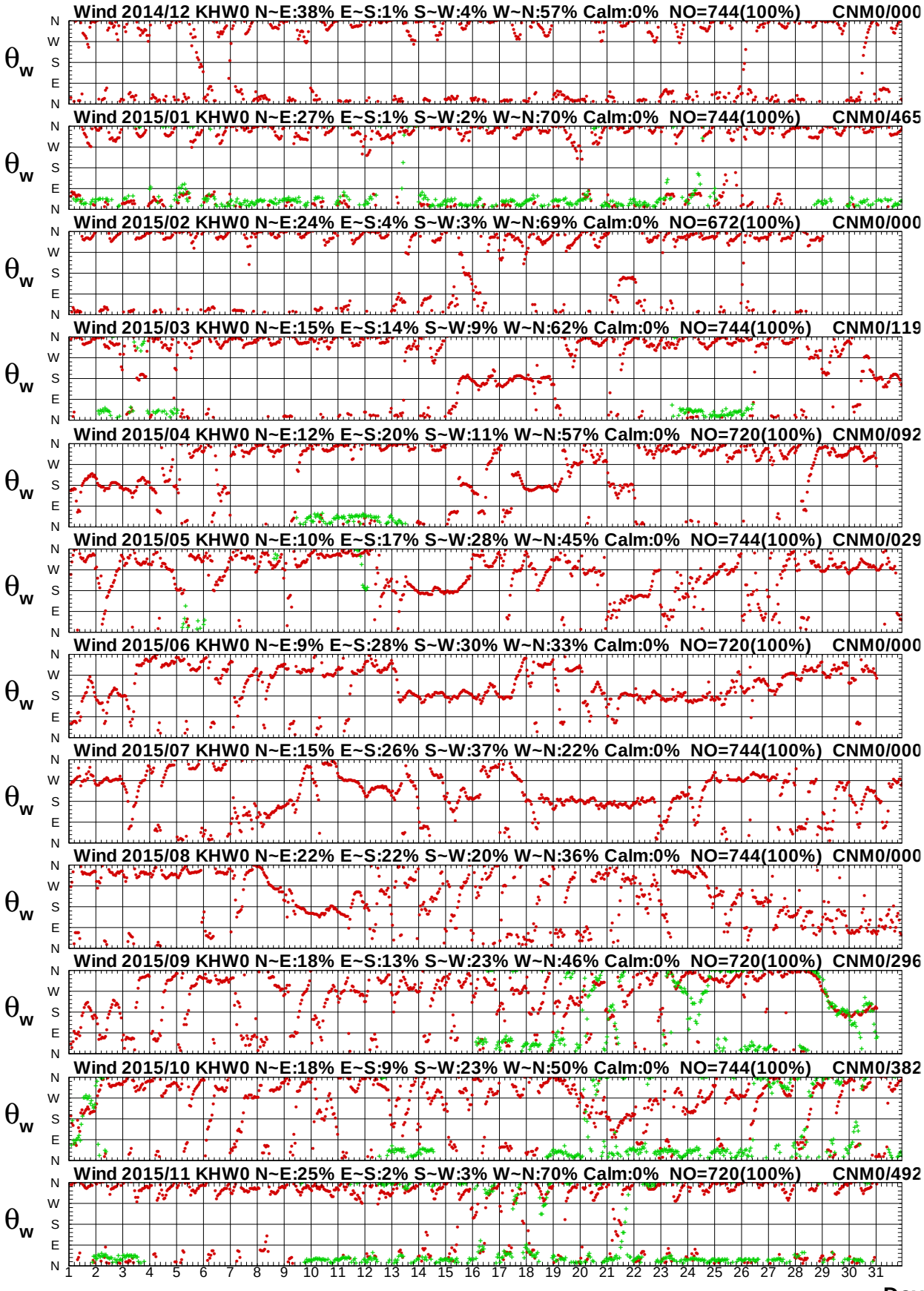

圖 7.23b　2015年每月高雄海域 W 站與嘉南海域 M 站風向圖

W14CKHW0.1HA W14CCNM0.1H0 W151KHW0.1HA W151CNM0.1H0 W152KHW0.1HA W152CNM0.1H0
W153KHW0.1HA W153CNM0.1H0 W154KHW0.1HA W154CNM0.1H0 W155KHW0.1HA W155CNM0.1H0

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第八章　2015 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 8。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 8。

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)。

本風力年報以取經檢核或修補後之 **Y 站**資料作為**主要觀測站**，2015 年主要觀測站修補前(後)每月觀測之風資料記錄期間統計表，如表 8.1a，2015 年風力**次要觀測站**資料(未補餘)記錄統計表，如表 8.1b，**主要觀測站修補前後**每月風力歷線比較圖，如圖 8.1，**主要觀測站**與**次要觀測站**(或**其他觀測站**)每月風力歷線比較圖，如圖 8.2 以後。

表 8 嘉南海域觀測風力資料蒐集概況表(統計時間至 2015 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	2010/12-2015/11(觀測中)	港研中心	安平港南堤
W	22°58'09"N	120°09'54"E	2009/08-2015/11(觀測中)	港研中心	安平港信號臺
B	23°22'48"E	120°08'49"E	2006/08-2015/11(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	2006/06-2015/11(觀測中)	水利署	七股浮標站
H	22°49'8"N	120°11'51"E	2005/10-2015/11(觀測中)	水利署	永安氣象站
E	23°01'25"N	120° 6'42"E	2014/09-2015/11(觀測中)	水利署	四草氣象站
M	23°37'07"N	120°08'15"	2015/01-2015/11(觀測中)	中央氣象局	箔子寮氣象站
Q	23°28'00"N	120°07'21"E	2015/01-2015/11(觀測中)	中央氣象局	塭港氣象站
I	23°0'52"N	120° 04'09"E	2014/08-2015/11(觀測中)	中央氣象局	七股氣象站

圖 8 嘉南海域風力觀測站位置示意圖

表8.1a 2015年每月嘉南海域修補前各測站觀測風力資料紀錄統計表

年/月 港區	嘉南海域	嘉南海域	嘉南海域	嘉南海域	嘉南海域	嘉南海域	嘉南海域	嘉南海域	嘉南海域	嘉南海域	嘉南海域	嘉南海域
測站	X	W	Y	B	I	H	E	O	M	Q		
2014/12月	742 (99.7%)	381 (51.2%)	650 (87.4%)	743 (99.9%)	744 (100%)	744 (100%)	744 (100%)	*	*	*	*	*
2015/ 1月	732 (98.4%)	371 (49.9%)	717 (96.4%)	740 (99.5%)	743 (99.9%)	743 (99.9%)	743 (99.9%)	*	465 (62.5%)	454 (61.0%)	*	*
2015/ 2月	664 (98.8%)	635 (94.5%)	561 (83.5%)	668 (99.4%)	672 (100%)	671 (99.9%)	671 (99.9%)	*	*	*	*	*
2015/ 3月	729 (98.0%)	739 (99.3%)	634 (85.2%)	742 (99.7%)	744 (100%)	744 (100%)	744 (100%)	*	119 (16.0%)	117 (15.7%)	*	*
2015/ 4月	700 (97.2%)	712 (98.9%)	608 (84.4%)	699 (97.1%)	720 (100%)	719 (99.9%)	719 (99.9%)	*	92 (12.8%)	379 (52.6%)	*	*
2015/ 5月	723 (97.2%)	732 (98.4%)	709 (95.3%)	654 (87.9%)	744 (100%)	744 (100%)	743 (99.9%)	*	29 (3.9%)	254 (34.1%)	*	*
2015/ 6月	706 (98.1%)	716 (99.4%)	720 (100%)	665 (92.4%)	720 (100%)	719 (99.9%)	719 (99.9%)	*	*	498 (69.2%)	*	*
2015/ 7月	742 (99.7%)	742 (99.7%)	744 (100%)	732 (98.4%)	744 (100%)	744 (100%)	744 (100%)	*	*	333 (44.8%)	*	*
2015/ 8月	224 (30.1%)	744 (100%)	283 (38.0%)	713 (95.8%)	744 (100%)	743 (99.9%)	743 (99.9%)	*	*	570 (76.6%)	*	*
2015/ 9月	*	711 (98.8%)	635 (88.2%)	707 (98.2%)	499 (69.3%)	720 (100%)	717 (99.6%)	*	296 (41.1%)	588 (81.7%)	*	*
2015/10月	*	736 (98.9%)	738 (99.2%)	744 (100%)	744 (100%)	743 (99.9%)	744 (100%)	*	382 (51.3%)	381 (51.2%)	*	*
2015/11月	*	719 (99.9%)	708 (98.3%)	720 (100%)	720 (100%)	720 (100%)	720 (100%)	*	492 (68.3%)	633 (87.9%)	*	*
2015/冬季	2138 (99.0%)	1387 (64.2%)	1928 (89.3%)	2151 (99.6%)	2159 (100.0%)	2158 (99.9%)	2158 (99.9%)	*	465 (21.5%)	454 (21.0%)	*	*
2015/春季	2152 (97.5%)	2183 (98.9%)	1951 (88.4%)	2095 (94.9%)	2208 (100%)	2207 (100.0%)	2206 (99.9%)	*	240 (10.9%)	750 (34.0%)	*	*
2015/夏季	1672 (75.7%)	2202 (99.7%)	1747 (79.1%)	2110 (95.6%)	2208 (100%)	2206 (99.9%)	2206 (99.9%)	*	*	1401 (63.5%)	*	*
2015/秋季	*	2166 (99.2%)	2081 (95.3%)	2171 (99.4%)	1963 (89.9%)	2183 (100.0%)	2181 (99.9%)	*	1170 (53.6%)	1602 (73.4%)	*	*
2015/整年	5962 (68.1%)	7938 (90.6%)	7707 (88.0%)	8527 (97.3%)	8538 (97.5%)	8754 (99.9%)	8751 (99.9%)	*	1875 (21.4%)	4207 (48.0%)	*	*
起始年月	2014/12	2014/12	2014/12	2014/12	2014/12	2014/12	2014/12	*	2015/01	2015/01	*	*
結束年月	2015/08	2015/11	2015/11	2015/11	2015/11	2015/11	2015/11	*	2015/11	2015/11	*	*

表8.1b 2015年每月嘉南海域修補後各測站風力資料統計表

年/月 港區	嘉南海域	嘉南海域	嘉南海域	嘉南海域	嘉南海域	嘉南海域	嘉南海域	嘉南海域	嘉南海域	嘉南海域	嘉南海域	嘉南海域
測站	X	W	Y	B	I	H	E	O	M	Q		
2014/12月	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	*	*	*	*	*
2015/ 1月	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	*	*	*	*	*
2015/ 2月	672 (100%)	672 (100%)	672 (100%)	672 (100%)	672 (100%)	672 (100%)	672 (100%)	*	*	*	*	*
2015/ 3月	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	*	*	*	*	*
2015/ 4月	720 (100%)	720 (100%)	720 (100%)	720 (100%)	720 (100%)	720 (100%)	720 (100%)	*	*	*	*	*
2015/ 5月	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	*	*	*	*	*
2015/ 6月	720 (100%)	720 (100%)	720 (100%)	720 (100%)	720 (100%)	720 (100%)	720 (100%)	*	*	*	*	*
2015/ 7月	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	*	*	*	*	*
2015/ 8月	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	*	*	*	*	*
2015/ 9月	720 (100%)	720 (100%)	720 (100%)	720 (100%)	720 (100%)	720 (100%)	720 (100%)	*	*	*	*	*
2015/10月	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	*	*	*	*	*
2015/11月	720 (100%)	720 (100%)	720 (100%)	720 (100%)	720 (100%)	720 (100%)	720 (100%)	*	*	*	*	*
2015/冬季	2160 (100%)	2160 (100%)	2160 (100%)	2160 (100%)	2160 (100%)	2160 (100%)	2160 (100%)	*	*	*	*	*
2015/春季	2208 (100%)	2208 (100%)	2208 (100%)	2208 (100%)	2208 (100%)	2208 (100%)	2208 (100%)	*	*	*	*	*
2015/夏季	2208 (100%)	2208 (100%)	2208 (100%)	2208 (100%)	2208 (100%)	2208 (100%)	2208 (100%)	*	*	*	*	*
2015/秋季	2184 (100%)	2184 (100%)	2184 (100%)	2184 (100%)	2184 (100%)	2184 (100%)	2184 (100%)	*	*	*	*	*
2015/整年	8760 (100%)	8760 (100%)	8760 (100%)	8760 (100%)	8760 (100%)	8760 (100%)	8760 (100%)	*	*	*	*	*
起始年月	2014/12	2014/12	2014/12	2014/12	2014/12	2014/12	2014/12	*	*	*	*	*
結束年月	2015/11	2015/11	2015/11	2015/11	2015/11	2015/11	2015/11	*	*	*	*	*

Wind Speed in Chia-Nan Seas of CNY0 at 2015

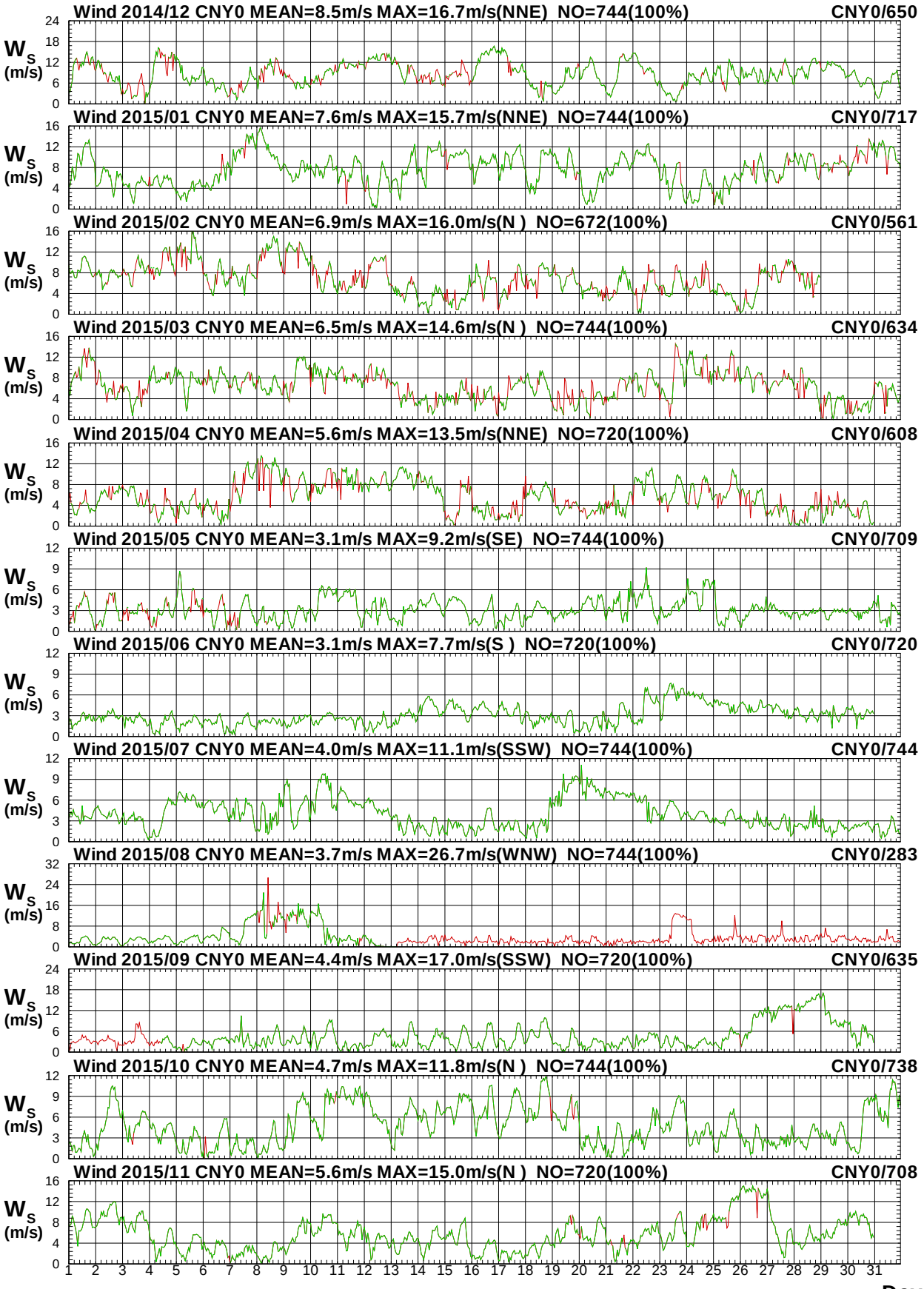

圖8.1a　2015年每月嘉南海域 Y 站修補前後之風速比較圖

W14CCNY0.1HA W14CCNY0.1H0 W151CNY0.1HA W151CNY0.1H0 W152CNY0.1HA W152CNY0.1H0
W153CNY0.1HA W153CNY0.1H0 W154CNY0.1HA W154CNY0.1H0 W155CNY0.1HA W155CNY0.1H0

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Wind Direction in Chia-Nan Seas of CNY0 at 2015

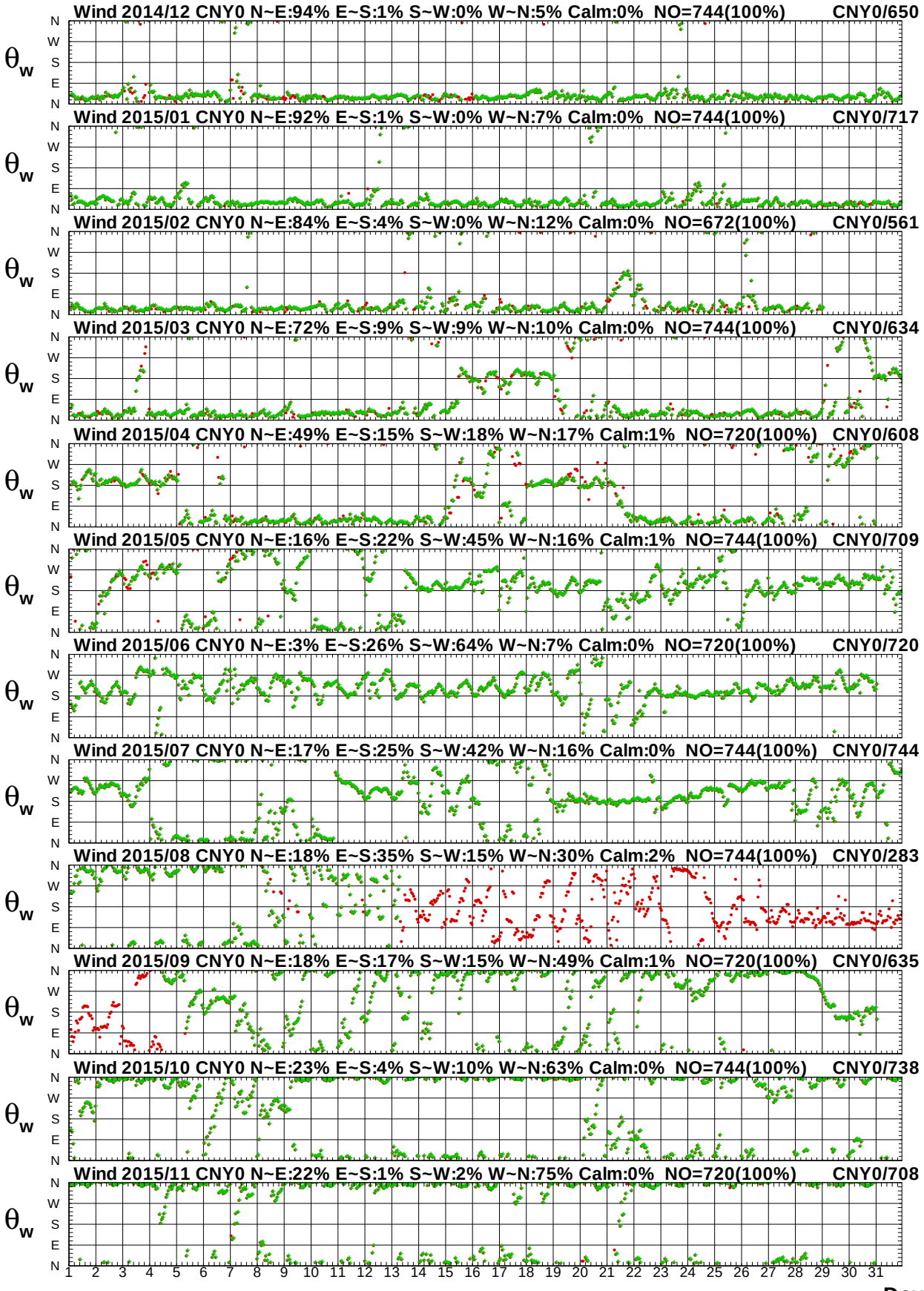

圖8.1b　2015年每月嘉南海域 Y 站修補前後之風向比較圖

W14CCNY0.1HA W14CCNY0.1H0 W151CNY0.1HA W151CNY0.1H0 W152CNY0.1HA W152CNY0.1H0
W153CNY0.1HA W153CNY0.1H0 W154CNY0.1HA W154CNY0.1H0 W155CNY0.1HA W155CNY0.1H0

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Wind Speed in Chia-Nan Seas of CNY0 at 2015

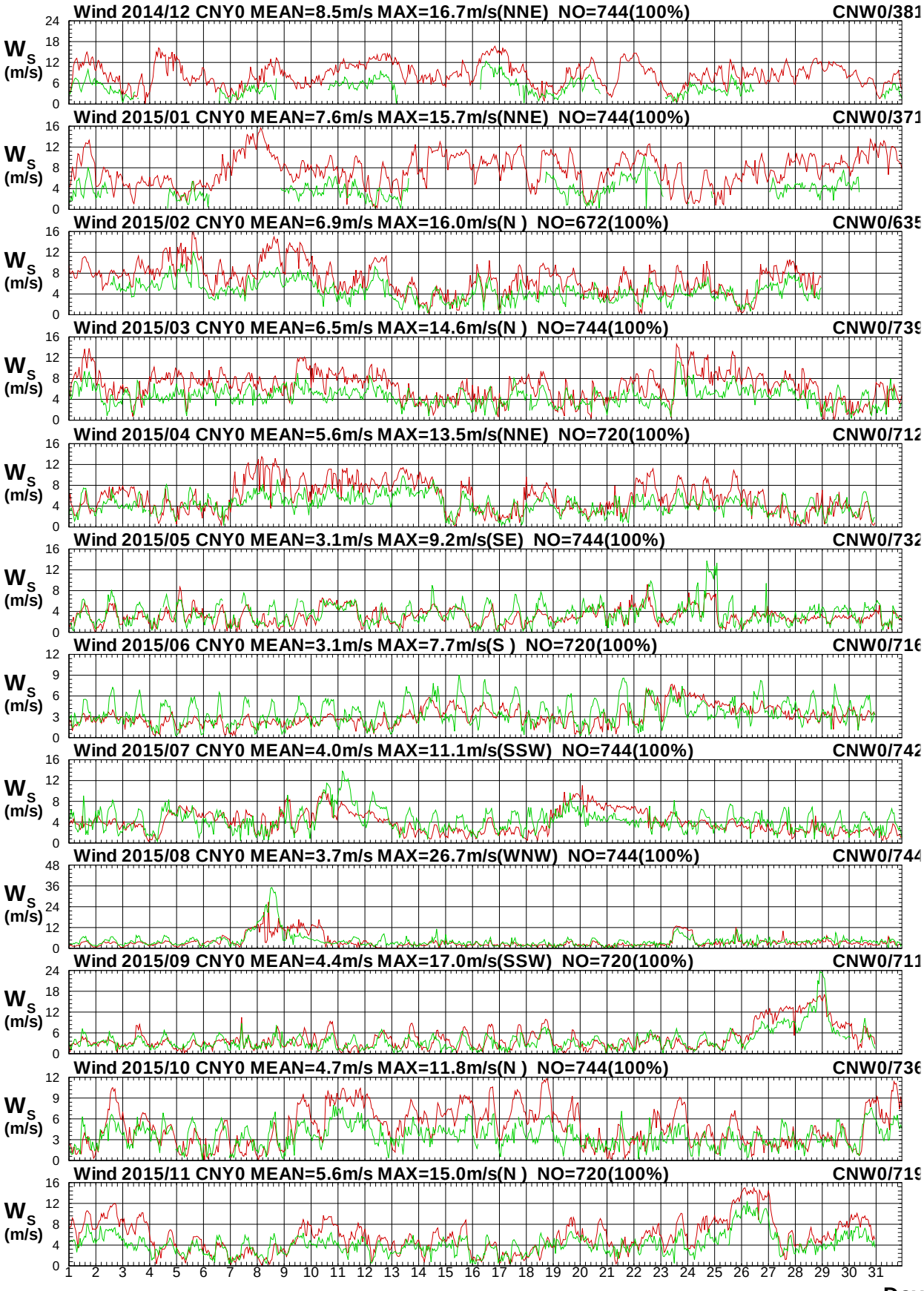

圖 8.2a　2015年每月嘉南海域 Y 站與 W 站風速比較圖

W14CCNY0.1HA W14CCNW0.1H0 W151CNY0.1HA W151CNW0.1H0 W152CNY0.1HA W152CNW0.1H0
W153CNY0.1HA W153CNW0.1H0 W154CNY0.1HA W154CNW0.1H0 W155CNY0.1HA W155CNW0.1H0

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Wind Direction in Chia-Nan Seas of CNY0 at 2015

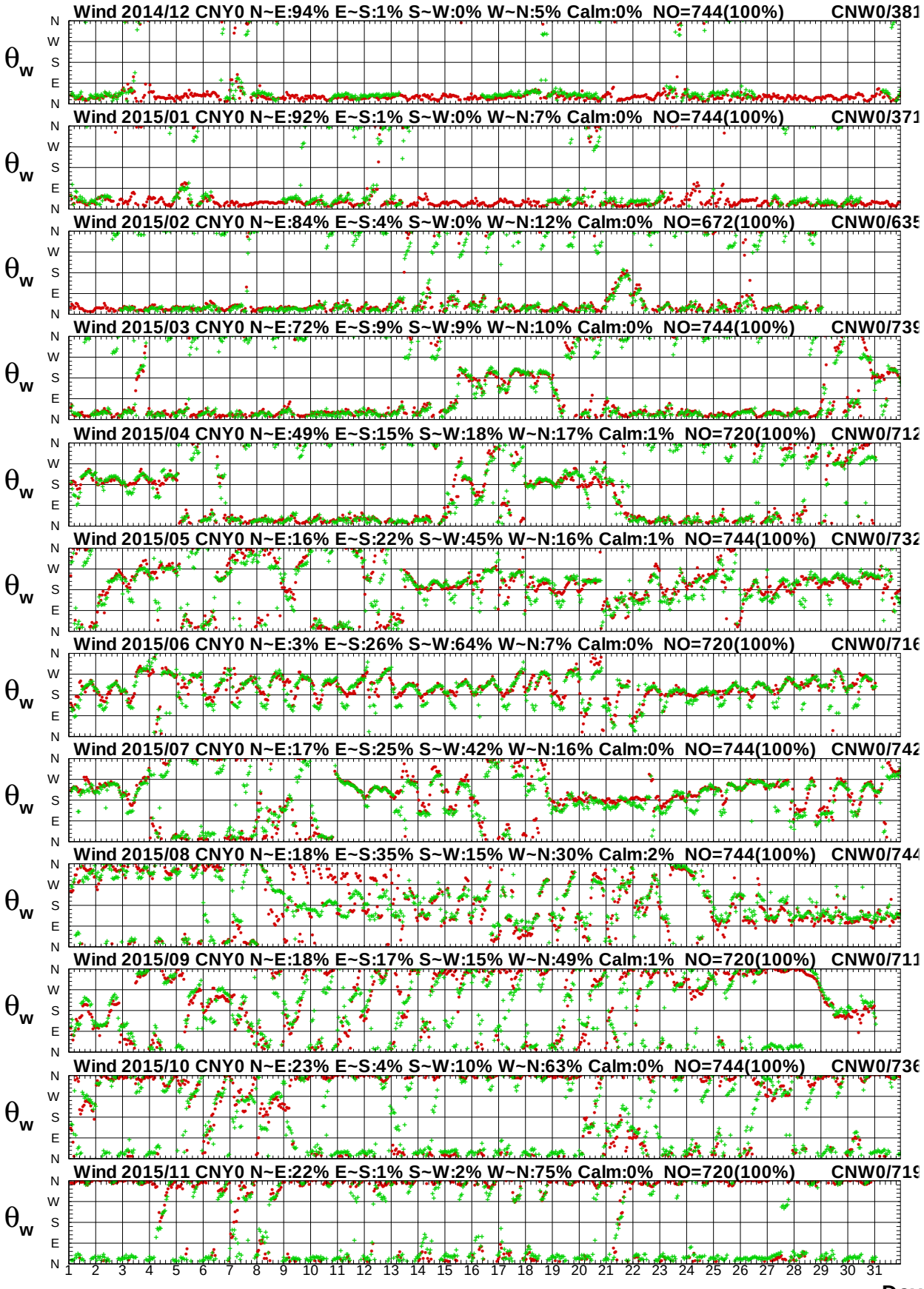

圖 8.2b　2015年每月嘉南海域 Y 站與 W 站風向比較圖

W14CCNY0.1HA W14CCNW0.1H0 W151CNY0.1HA W151CNW0.1H0 W152CNY0.1HA W152CNW0.1H0
W153CNY0.1HA W153CNW0.1H0 W154CNY0.1HA W154CNW0.1H0 W155CNY0.1HA W155CNW0.1H0

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Wind Speed in Chia-Nan Seas of CNY0 at 2015

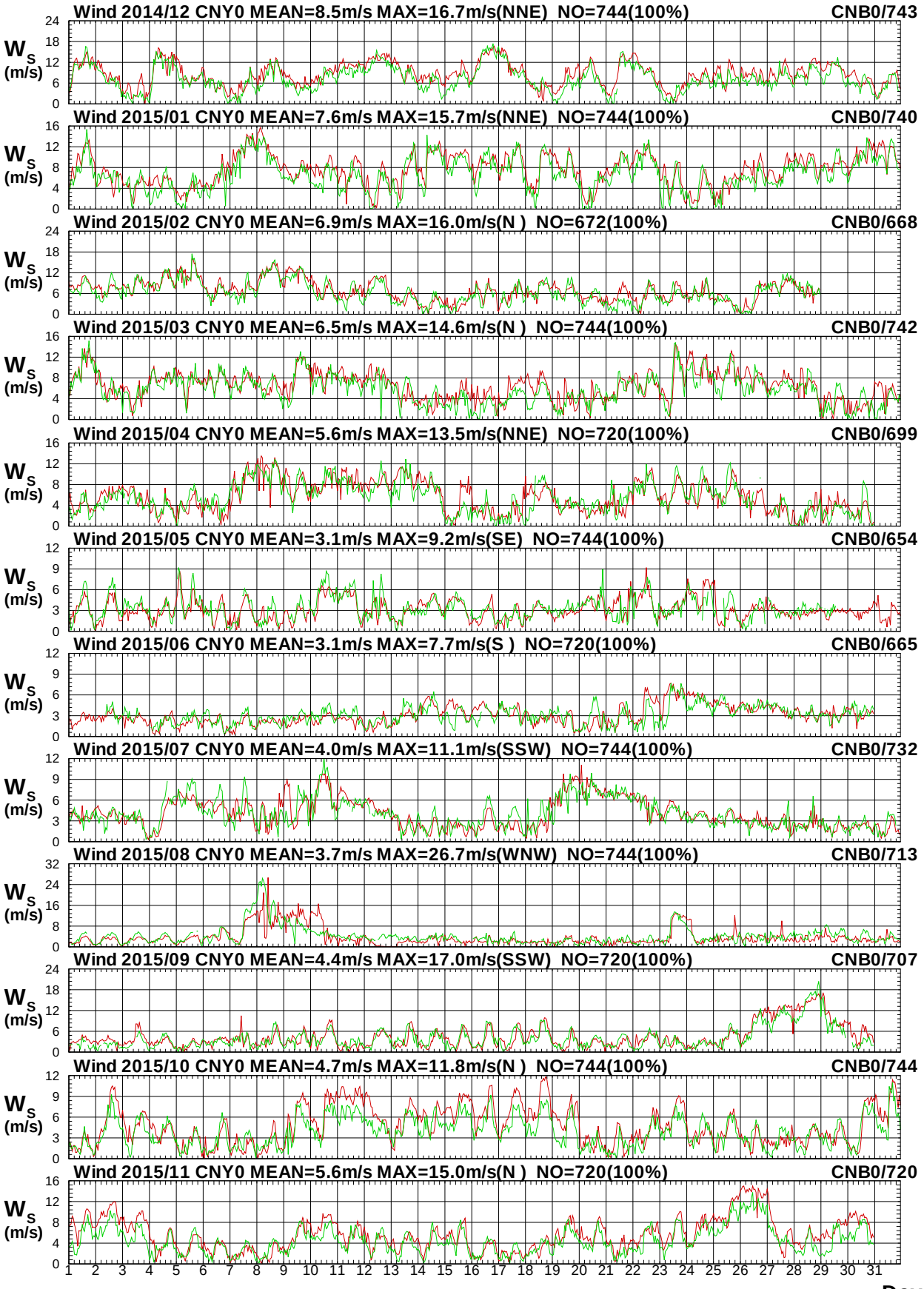

圖 8.3a　2015年每月嘉南海域 Y 站與 B 站風速比較圖

W14CCNY0.1HA W14CCNB0.1H0 W151CNY0.1HA W151CNB0.1H0 W152CNY0.1HA W152CNB0.1H0
W153CNY0.1HA W153CNB0.1H0 W154CNY0.1HA W154CNB0.1H0 W155CNY0.1HA W155CNB0.1H0

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Wind Direction in Chia-Nan Seas of CNY0 at 2015

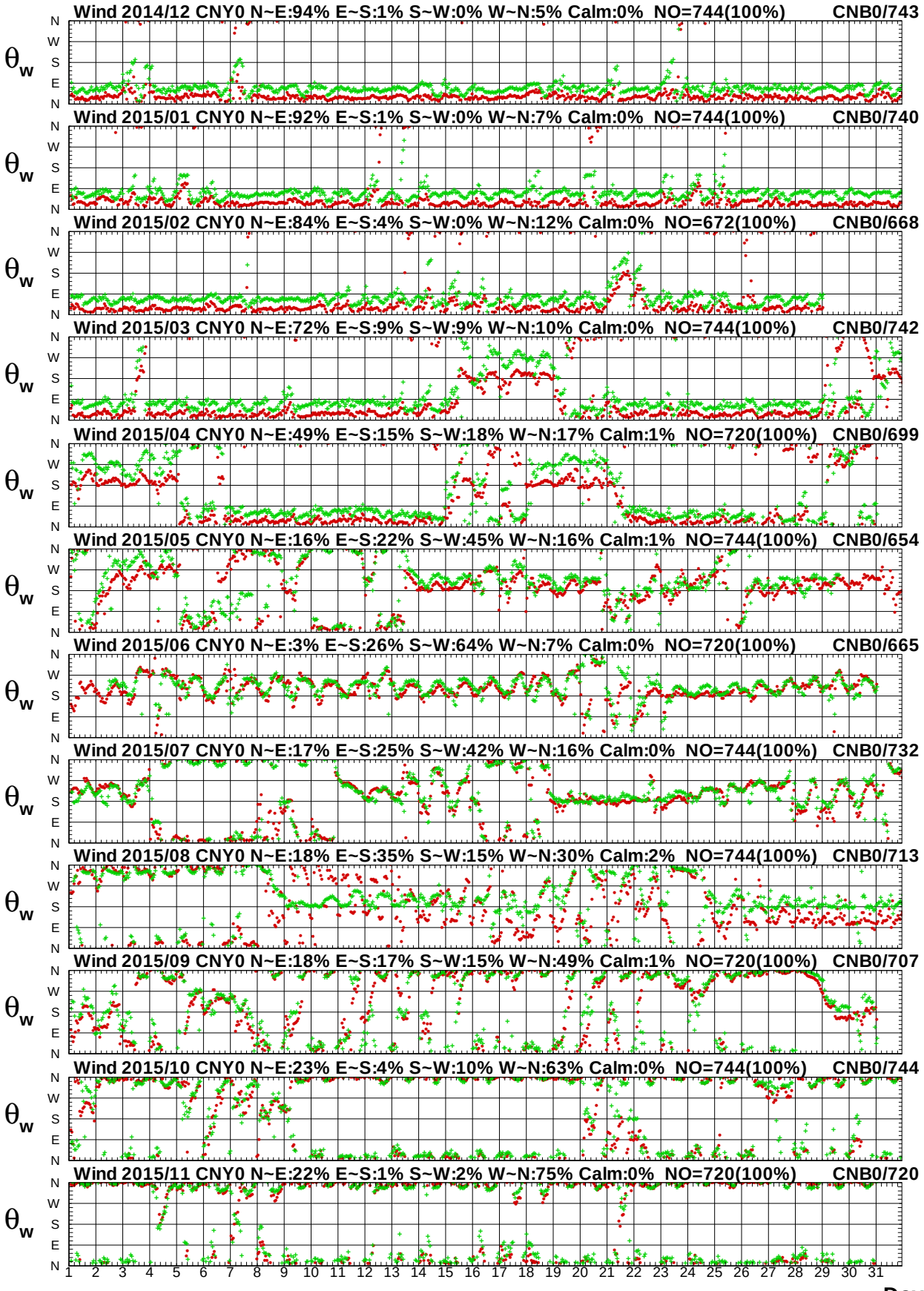

圖 8.3b　2015年每月嘉南海域 Y 站與 B 站風向比較圖

Wind Speed in Chia-Nan Seas of CNY0 at 2015

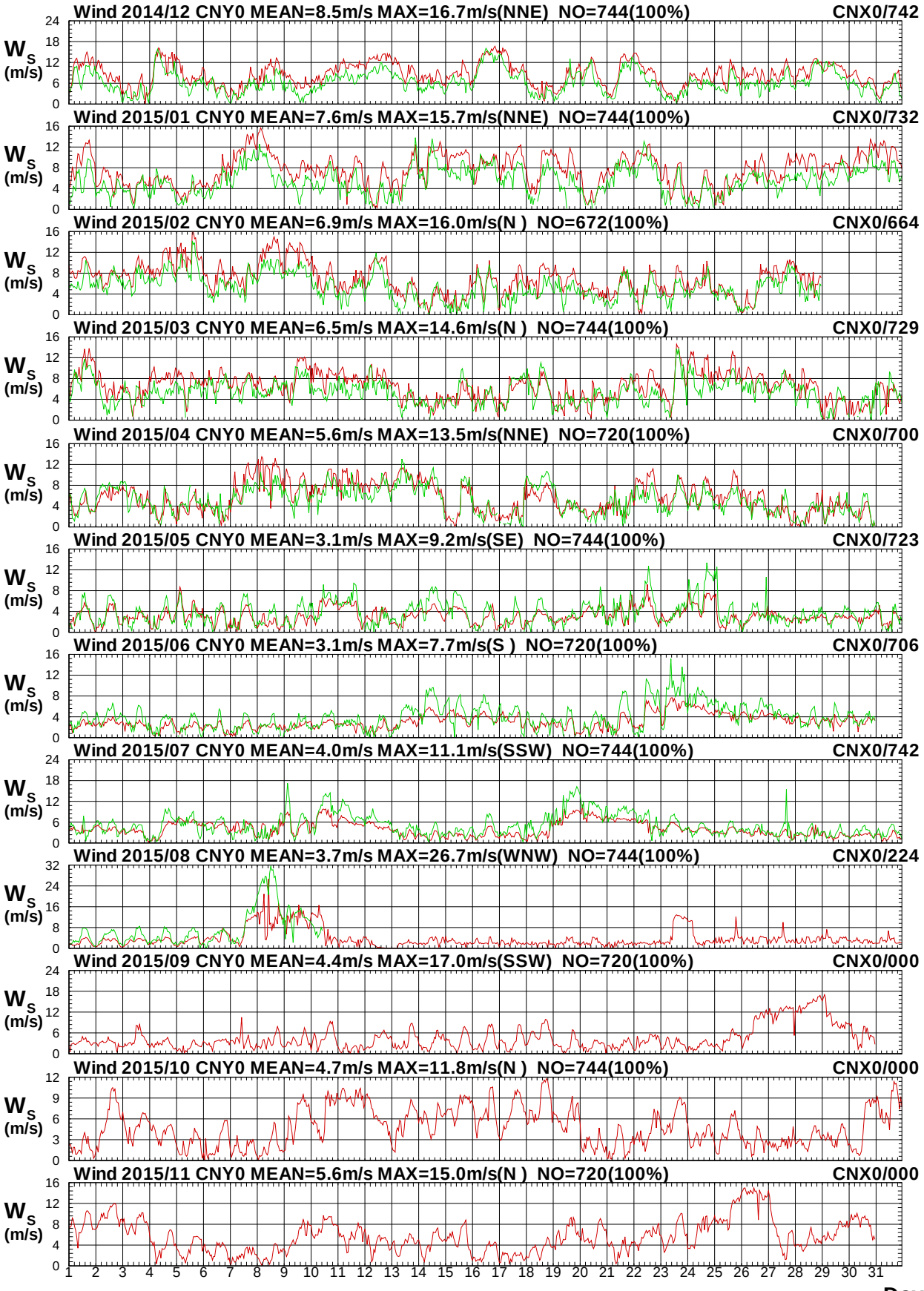

圖 8.4a　2015年每月嘉南海域 Y 站與 X 站風速比較圖

W14CCNY0.1HA W14CCNX0.1H0 W151CNY0.1HA W151CNX0.1H0 W152CNY0.1HA W152CNX0.1H0
W153CNY0.1HA W153CNX0.1H0 W154CNY0.1HA W154CNX0.1H0 W155CNY0.1HA W155CNX0.1H0

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Wind Direction in Chia-Nan Seas of CNY0 at 2015

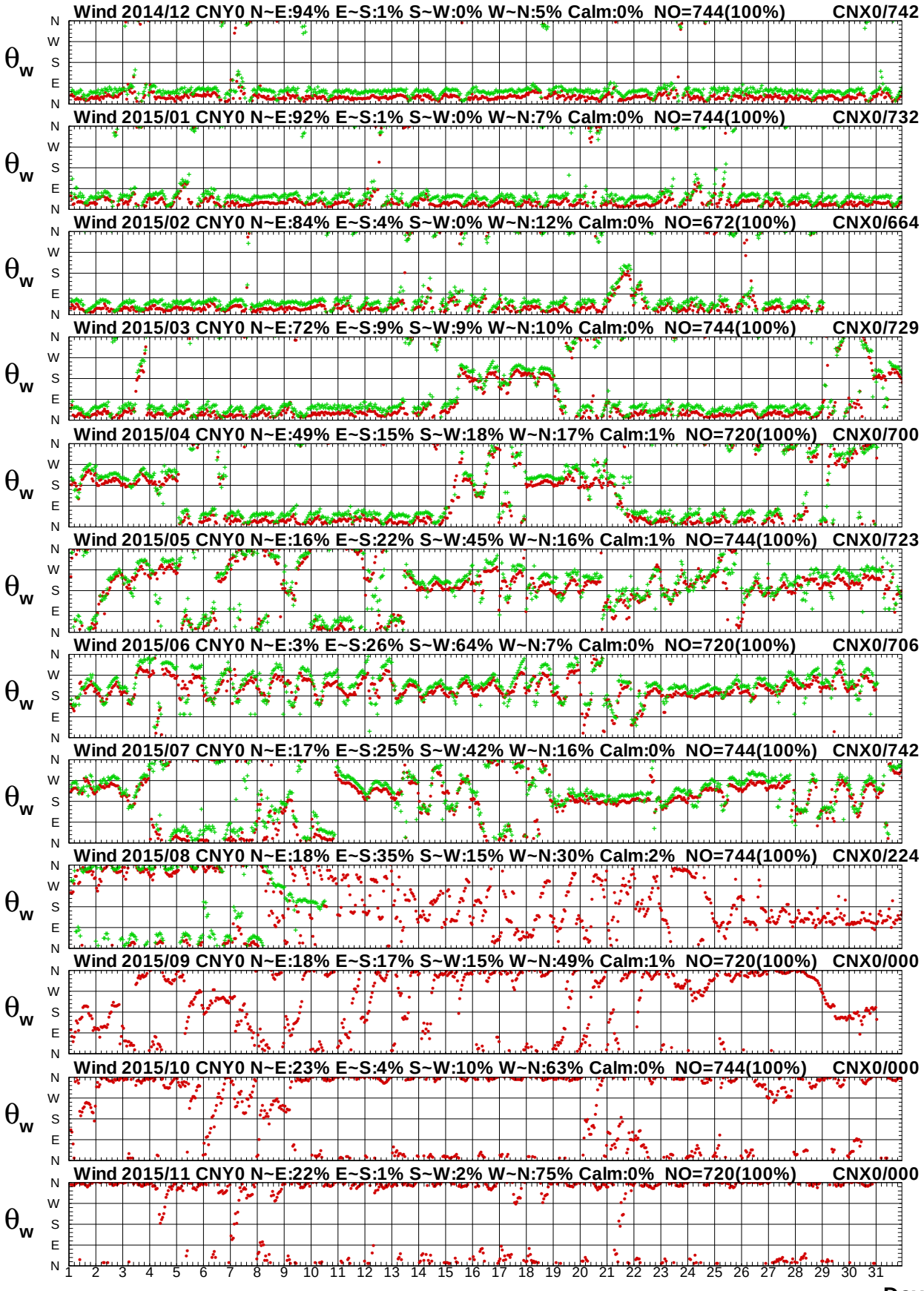

圖 8.4b　2015年每月嘉南海域 Y 站與 X 站風向比較圖

Wind Speed in Chia-Nan Seas of CNY0 at 2015

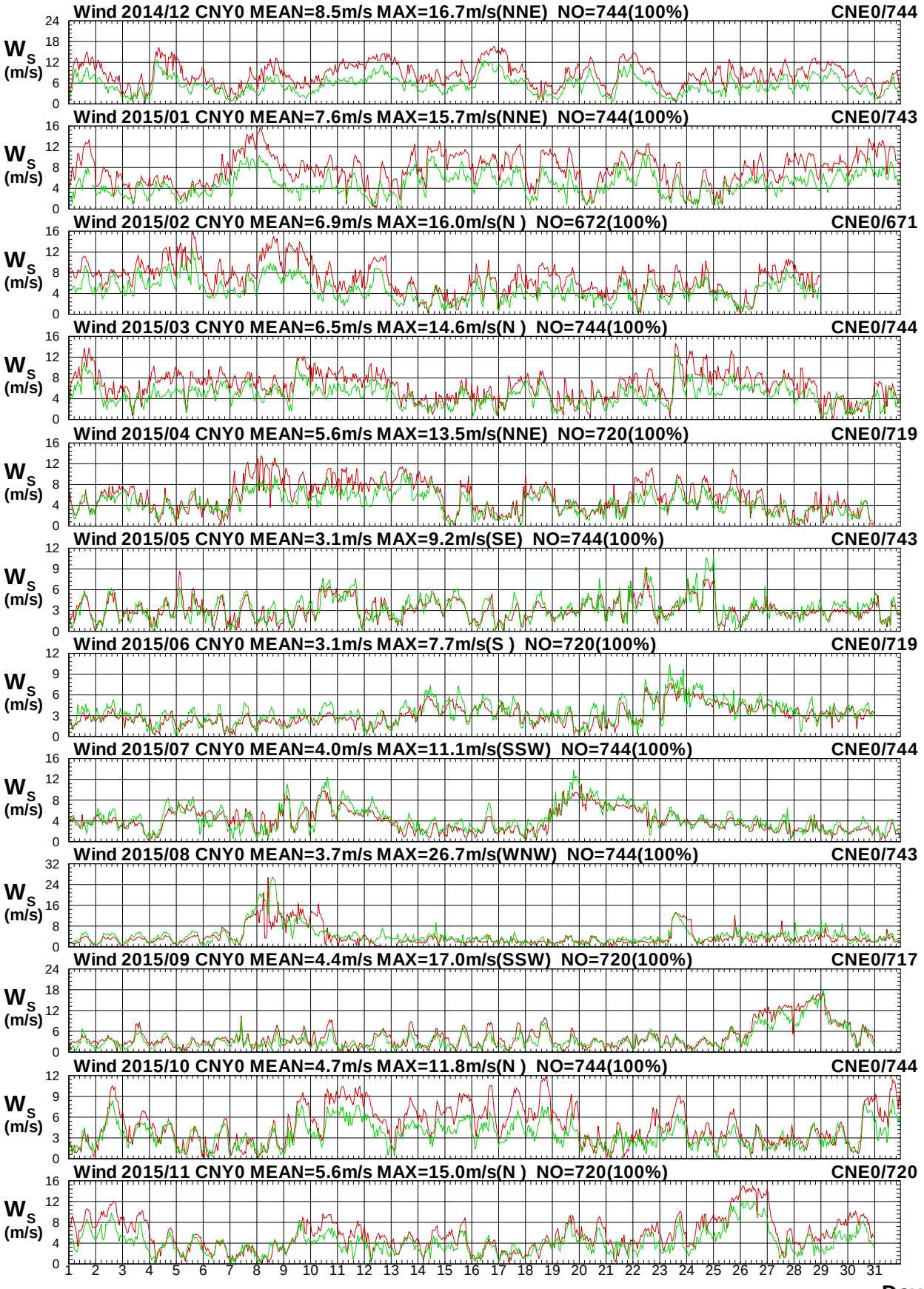

圖8.5a　2015年每月嘉南海域 Y 站與 E 站風速比較圖

W14CCNY0.1HA W14CCNE0.1H0 W151CNY0.1HA W151CNE0.1H0 W152CNY0.1HA W152CNE0.1H0
W153CNY0.1HA W153CNE0.1H0 W154CNY0.1HA W154CNE0.1H0 W155CNY0.1HA W155CNE0.1H0

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Wind Direction in Chia-Nan Seas of CNY0 at 2015

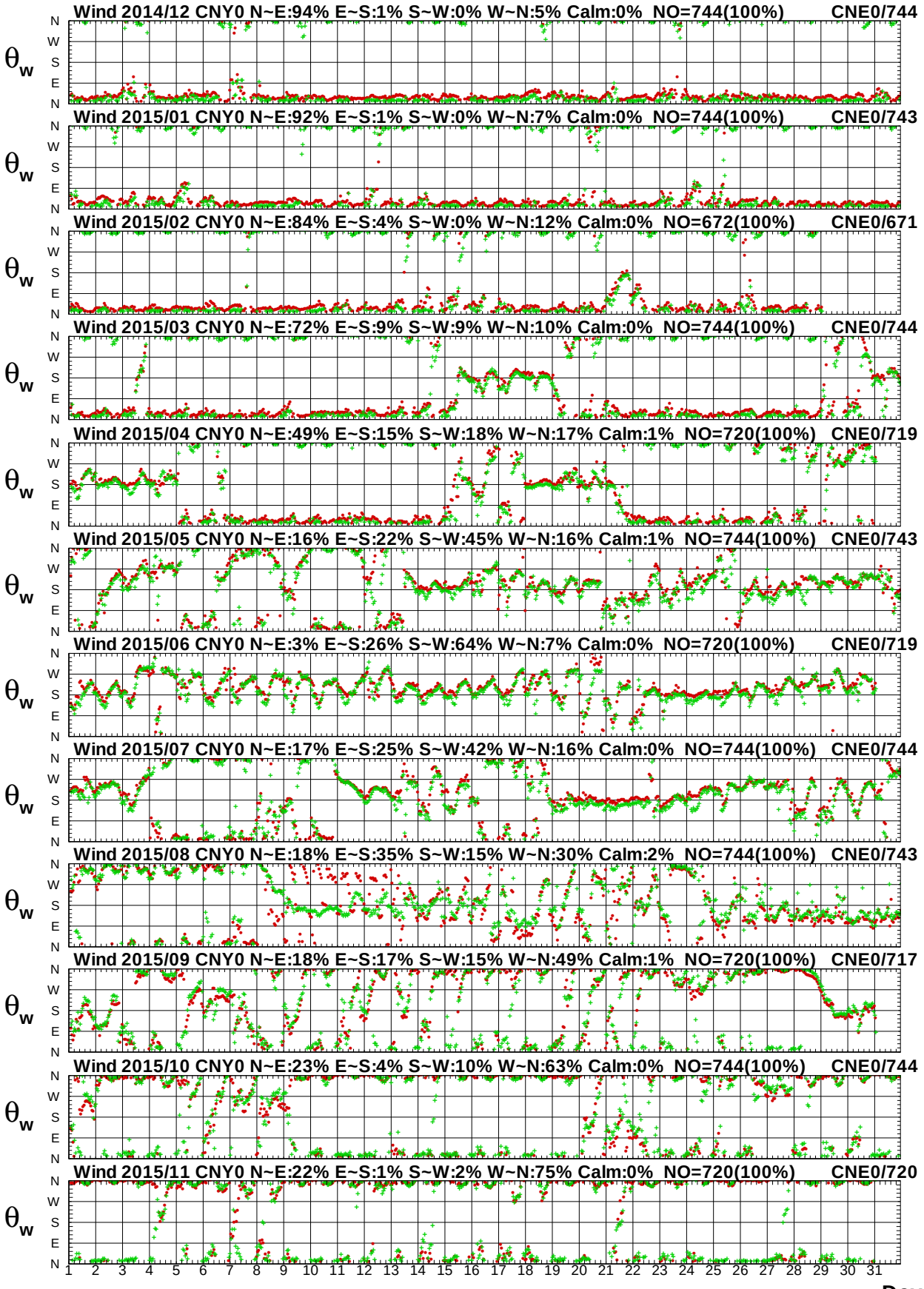

圖 8.5b　2015年每月嘉南海域 Y 站與 E 站風向比較圖

W14CCNY0.1HA W14CCNE0.1H0 W151CNY0.1HA W151CNE0.1H0 W152CNY0.1HA W152CNE0.1H0
W153CNY0.1HA W153CNE0.1H0 W154CNY0.1HA W154CNE0.1H0 W155CNY0.1HA W155CNE0.1H0

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Wind Speed in Chia-Nan Seas of CNY0 at 2015

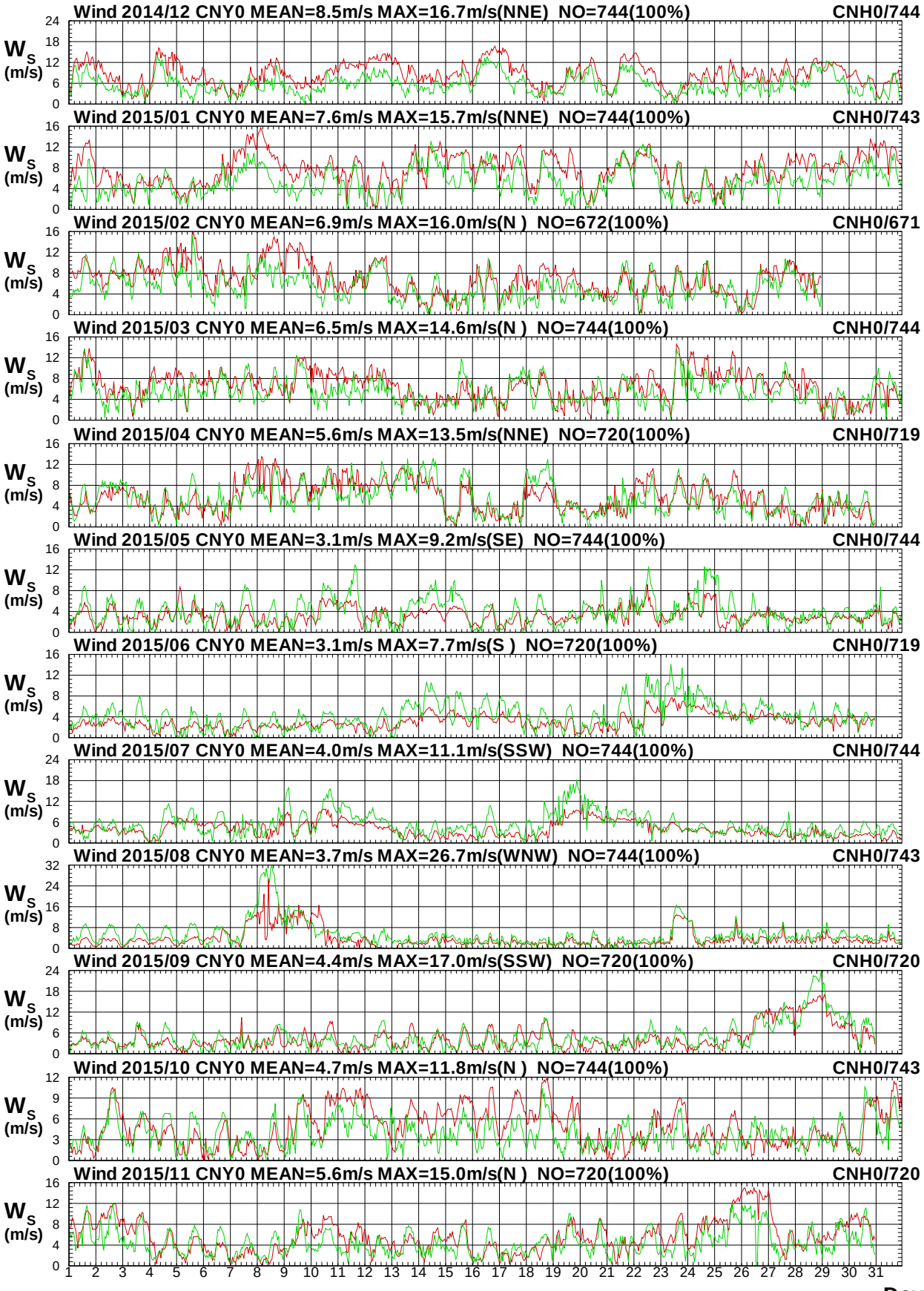

圖 8.6a　2015年每月嘉南海域 Y 站與 H 站風速比較圖

W14CCNY0.1HA W14CCNH0.1H0 W151CNY0.1HA W151CNH0.1H0 W152CNY0.1HA W152CNH0.1H0
W153CNY0.1HA W153CNH0.1H0 W154CNY0.1HA W154CNH0.1H0 W155CNY0.1HA W155CNH0.1H0

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Wind Direction in Chia-Nan Seas of CNY0 at 2015

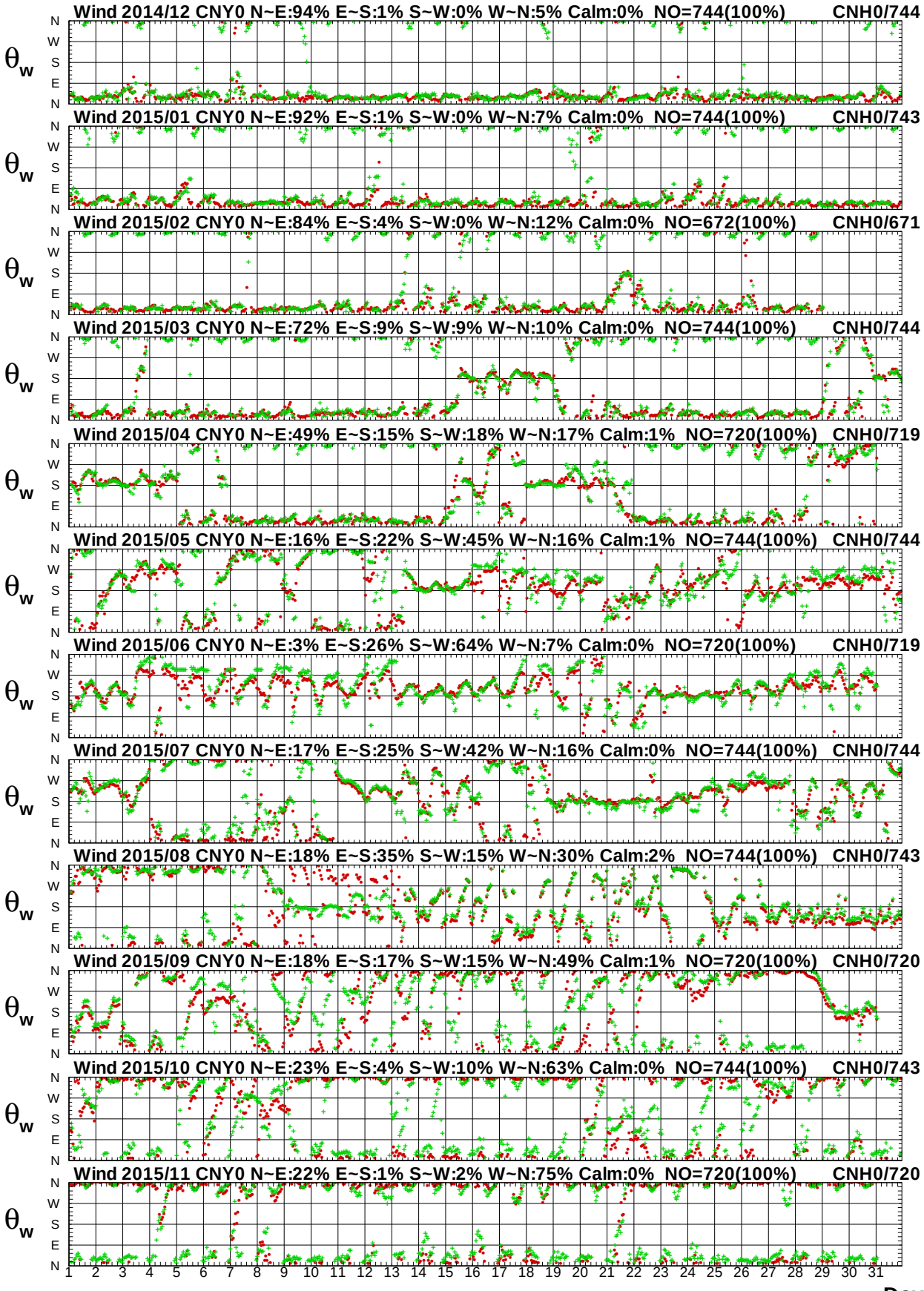

圖 8.6b　2015年每月嘉南海域 Y 站與 H 站風向比較圖

W14CCNY0.1HA W14CCNH0.1H0 W151CNY0.1HA W151CNH0.1H0 W152CNY0.1HA W152CNH0.1H0
W153CNY0.1HA W153CNH0.1H0 W154CNY0.1HA W154CNH0.1H0 W155CNY0.1HA W155CNH0.1H0

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Wind Speed in Chia-Nan Seas of CNY0 at 2015

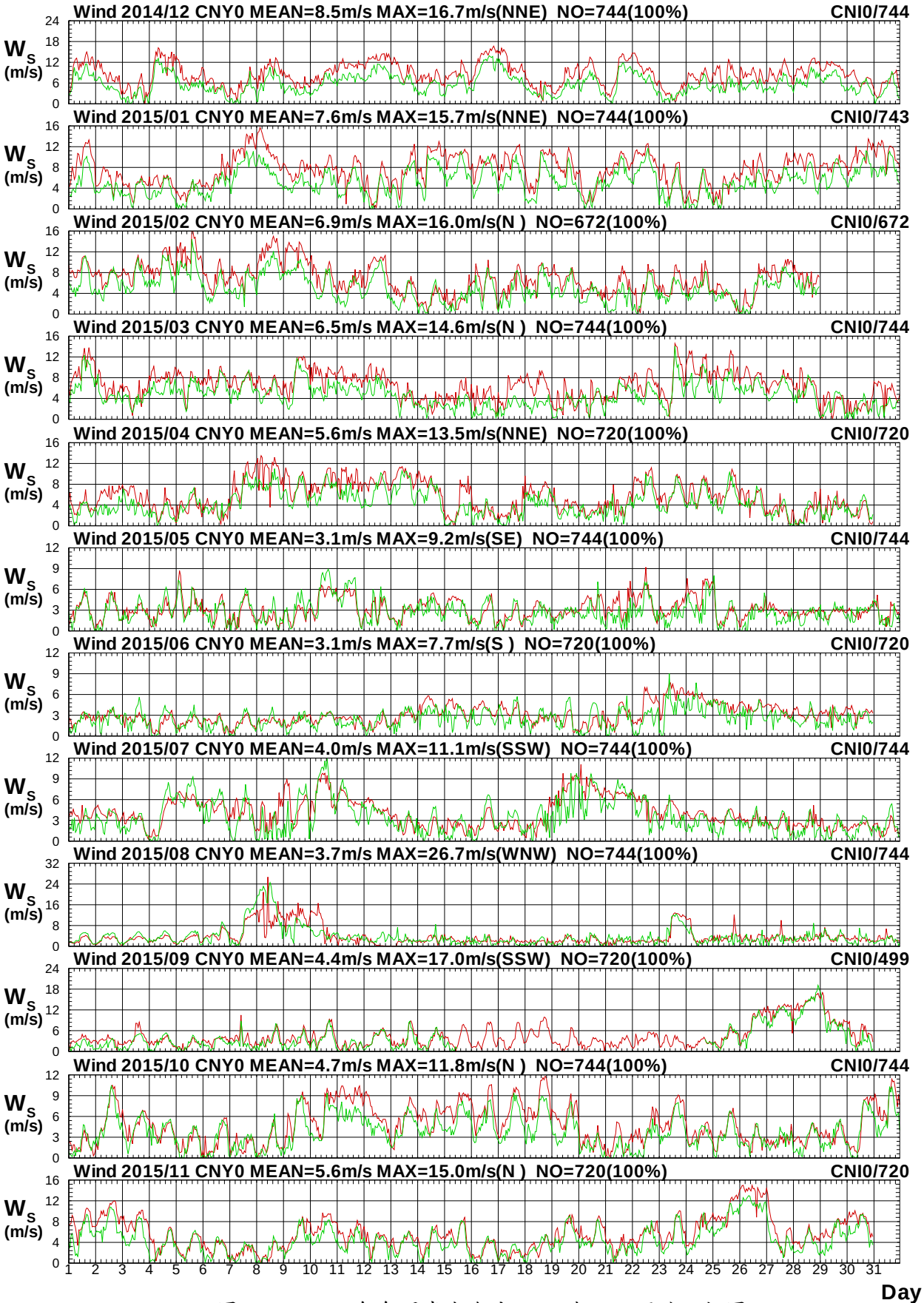

圖8.7a　2015年每月嘉南海域 Y 站與 I 站風速比較圖

W14CCNY0.1HA W14CCNI0.1H0 W151CNY0.1HA W151CNI0.1H0 W152CNY0.1HA W152CNI0.1H0
W153CNY0.1HA W153CNI0.1H0 W154CNY0.1HA W154CNI0.1H0 W155CNY0.1HA W155CNI0.1H0

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Wind Direction in Chia-Nan Seas of CNY0 at 2015

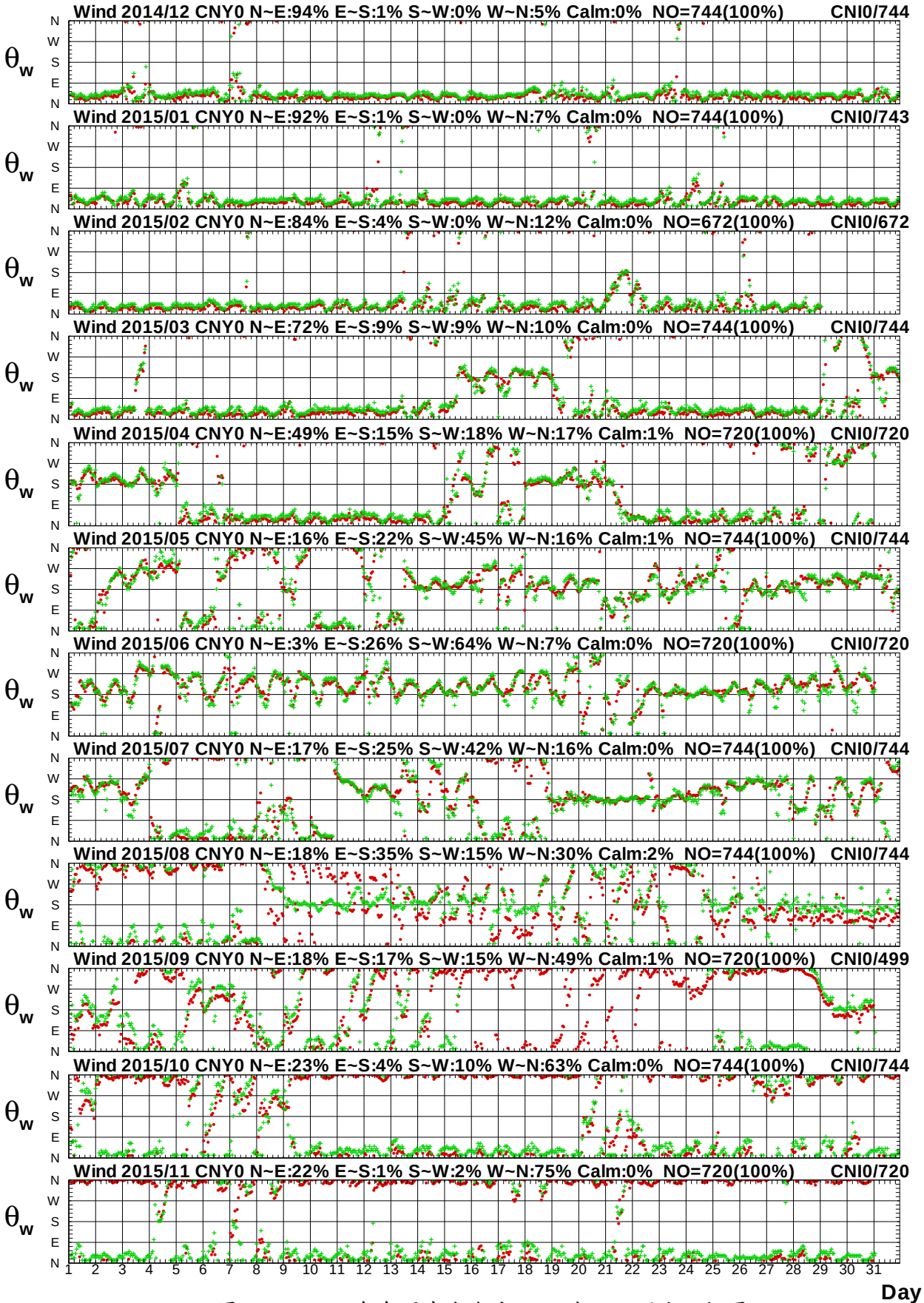

圖8.7b　2015年每月嘉南海域 Y 站與 I 站風向比較圖

W14CCNY0.1HA W14CCNI0.1H0 W151CNY0.1HA W151CNI0.1H0 W152CNY0.1HA W152CNI0.1H0
W153CNY0.1HA W153CNI0.1H0 W154CNY0.1HA W154CNI0.1H0 W155CNY0.1HA W155CNI0.1H0

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Wind Speed in Chia-Nan Seas of CNY0 at 2015

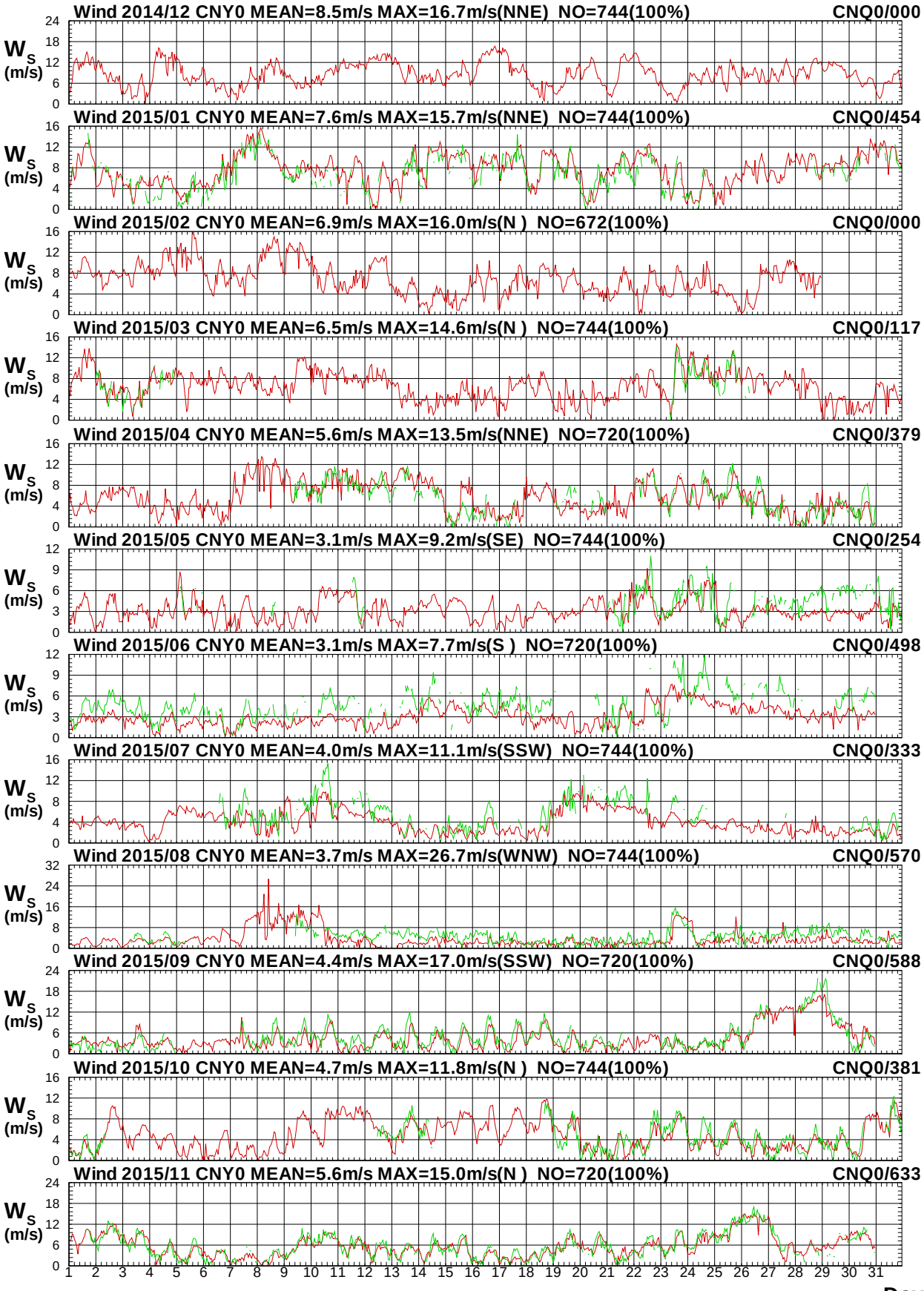

圖 8.8a　2015年每月嘉南海域 Y 站與 Q 站風速比較圖

W14CCNY0.1HA W14CCNQ0.1H0 W151CNY0.1HA W151CNQ0.1H0 W152CNY0.1HA W152CNQ0.1H0
W153CNY0.1HA W153CNQ0.1H0 W154CNY0.1HA W154CNQ0.1H0 W155CNY0.1HA W155CNQ0.1H0

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Wind Direction in Chia-Nan Seas of CNY0 at 2015

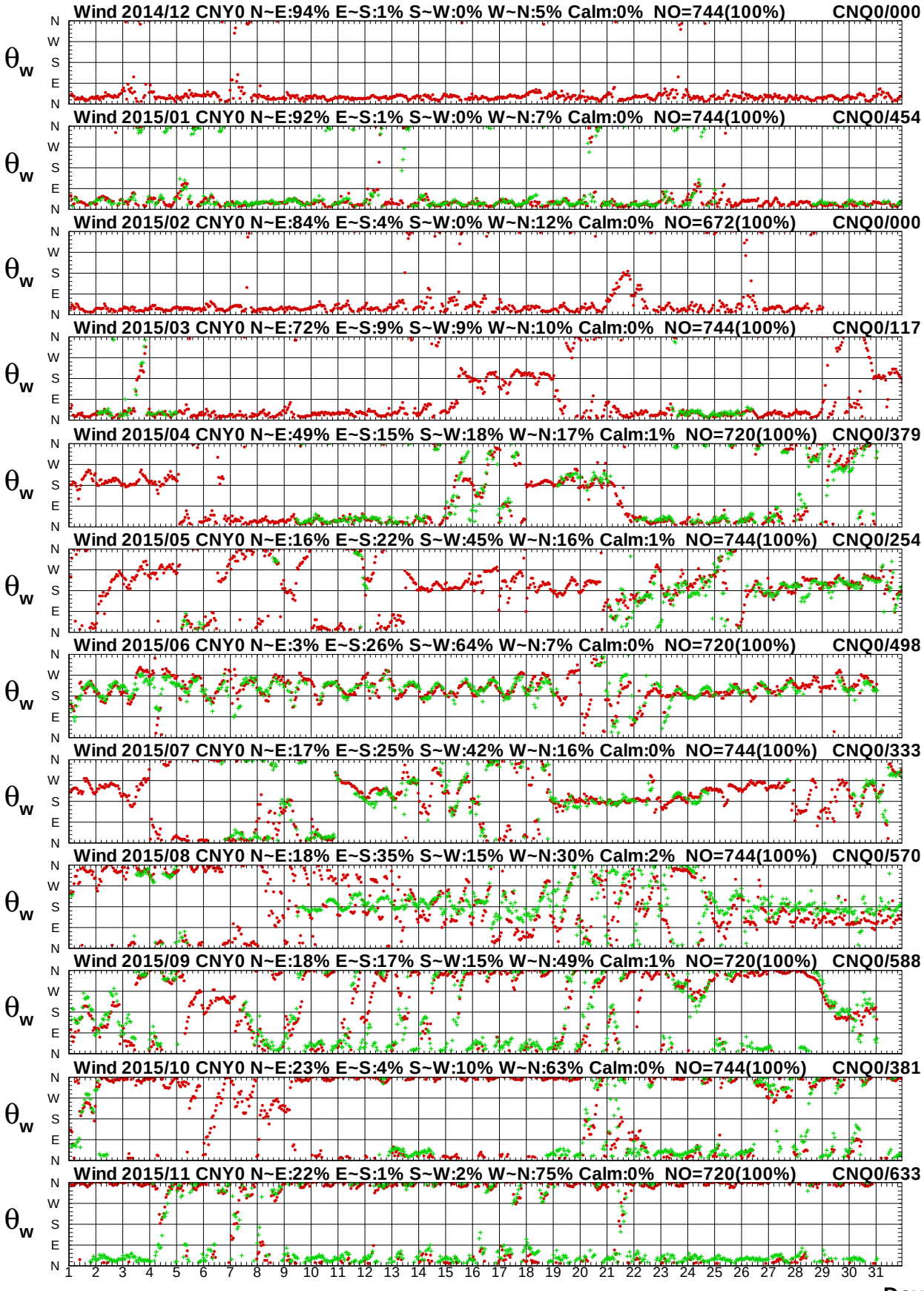

圖 8.8b　2015年每月嘉南海域 Y 站與 Q 站風向比較圖

W14CCNY0.1HA W14CCNQ0.1H0 W151CNY0.1HA W151CNQ0.1H0 W152CNY0.1HA W152CNQ0.1H0
W153CNY0.1HA W153CNQ0.1H0 W154CNY0.1HA W154CNQ0.1H0 W155CNY0.1HA W155CNQ0.1H0

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Wind Speed in Chia-Nan Seas of CNY0 at 2015

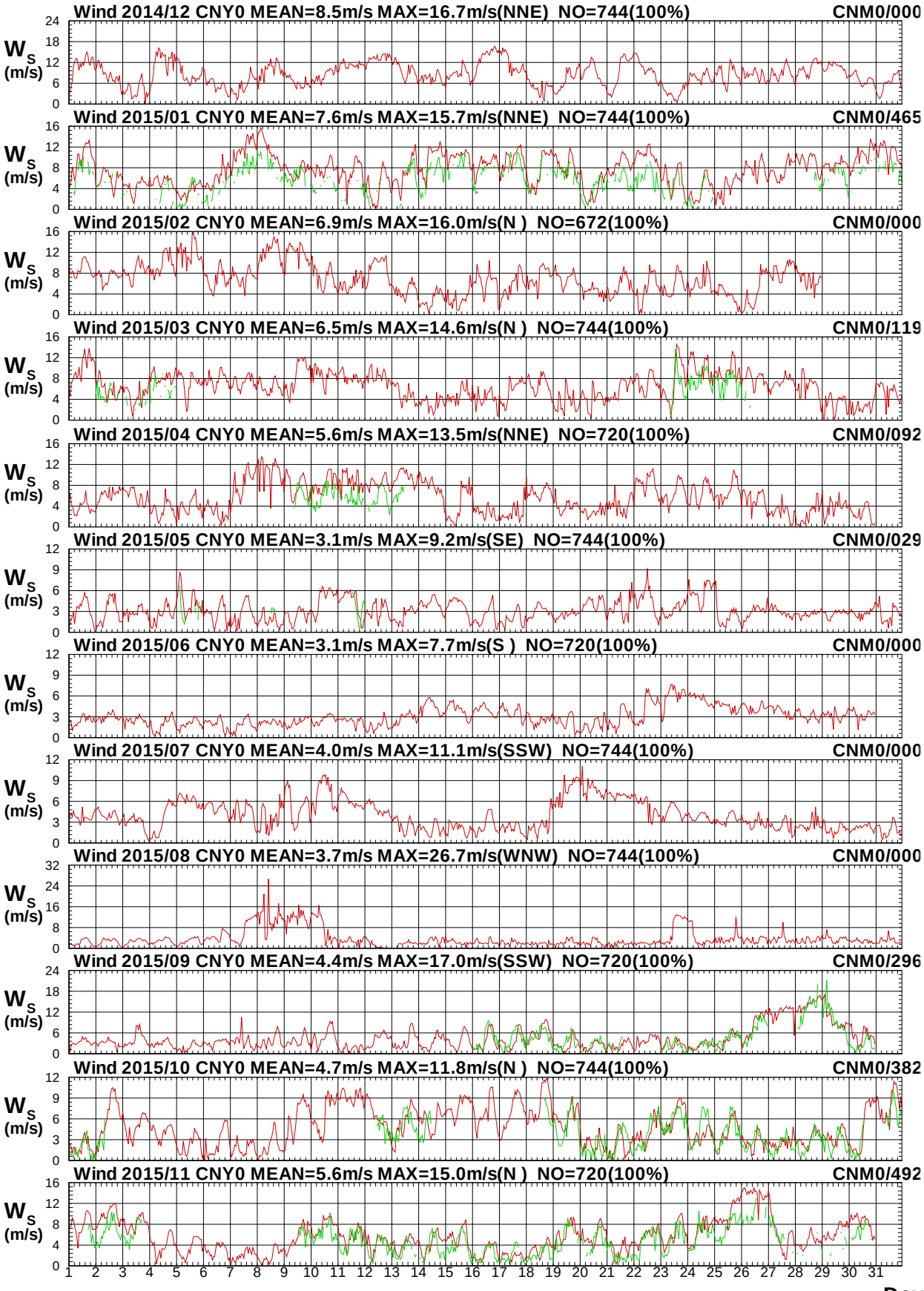

圖 8.9a　2015年每月嘉南海域 Y 站與 M 站風速比較圖

W14CCNY0.1HA W14CCNM0.1H0 W151CNY0.1HA W151CNM0.1H0 W152CNY0.1HA W152CNM0.1H0
W153CNY0.1HA W153CNM0.1H0 W154CNY0.1HA W154CNM0.1H0 W155CNY0.1HA W155CNM0.1H0

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Wind Direction in Chia-Nan Seas of CNY0 at 2015

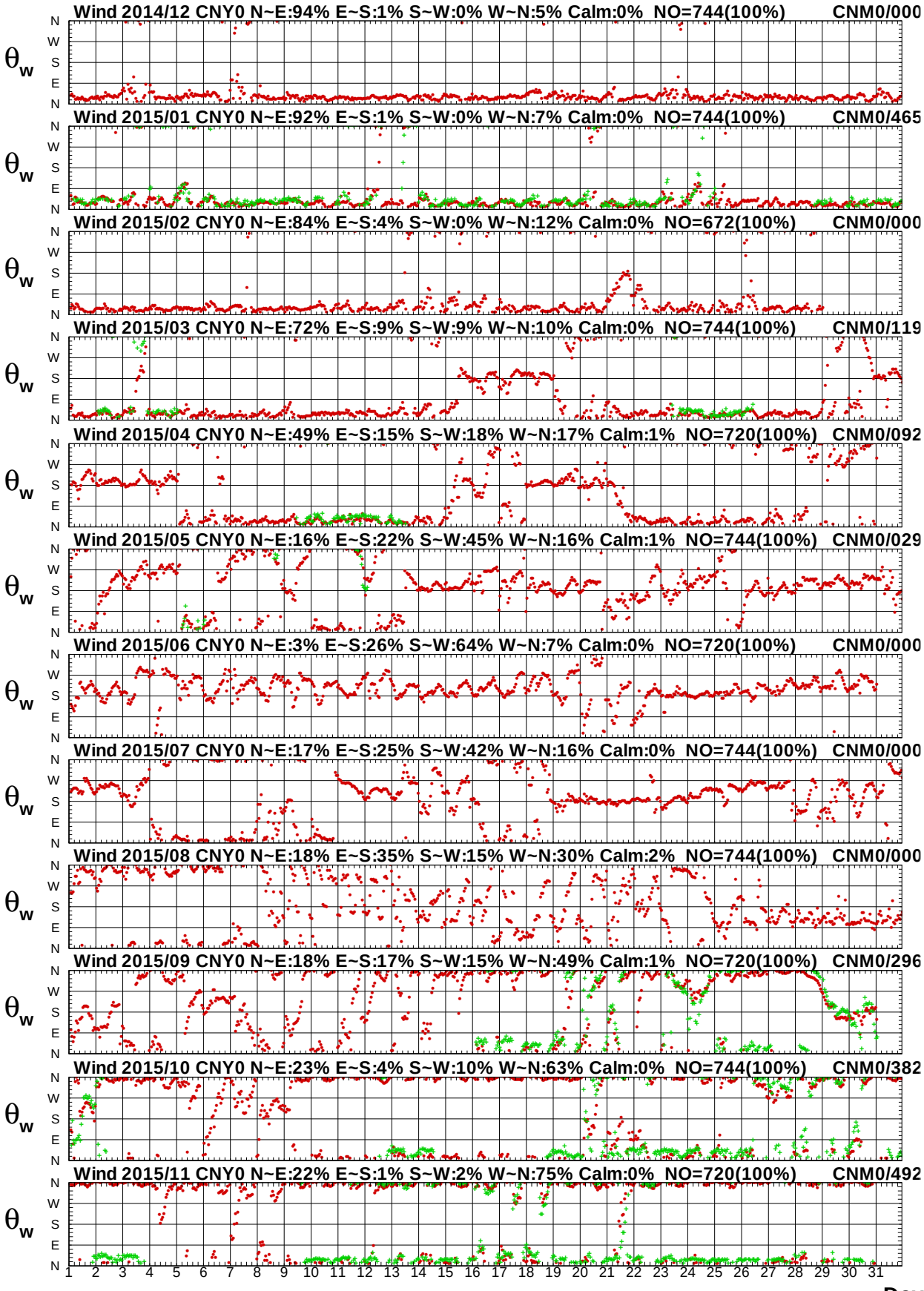

圖 8.9b　2015年每月嘉南海域 Y 站與 M 站風向比較圖

W14CCNY0.1HA W14CCNM0.1H0 W151CNY0.1HA W151CNM0.1H0 W152CNY0.1HA W152CNM0.1H0
W153CNY0.1HA W153CNM0.1H0 W154CNY0.1HA W154CNM0.1H0 W155CNY0.1HA W155CNM0.1H0

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Wind Speed in Chia-Nan Seas of CNY0 at 2015

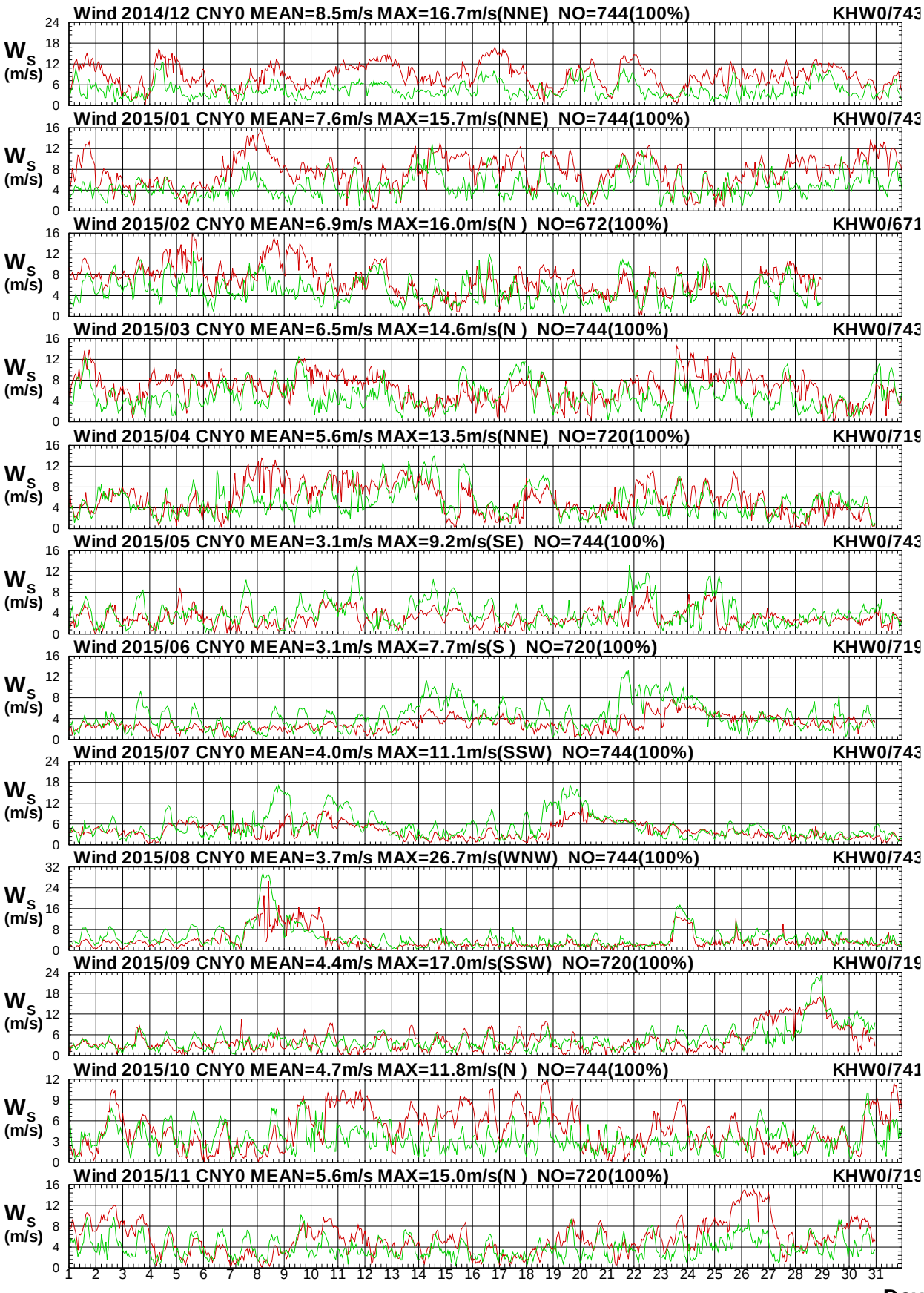

圖 8.10a　2015年每月嘉南海域 Y 站與高雄海域 W 站風速圖

W14CCNY0.1HA W14CKHW0.1H0 W151CNY0.1HA W151KHW0.1H0 W152CNY0.1HA W152KHW0.1H0
W153CNY0.1HA W153KHW0.1H0 W154CNY0.1HA W154KHW0.1H0 W155CNY0.1HA W155KHW0.1H0

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Wind Direction in Chia-Nan Seas of CNY0 at 2015

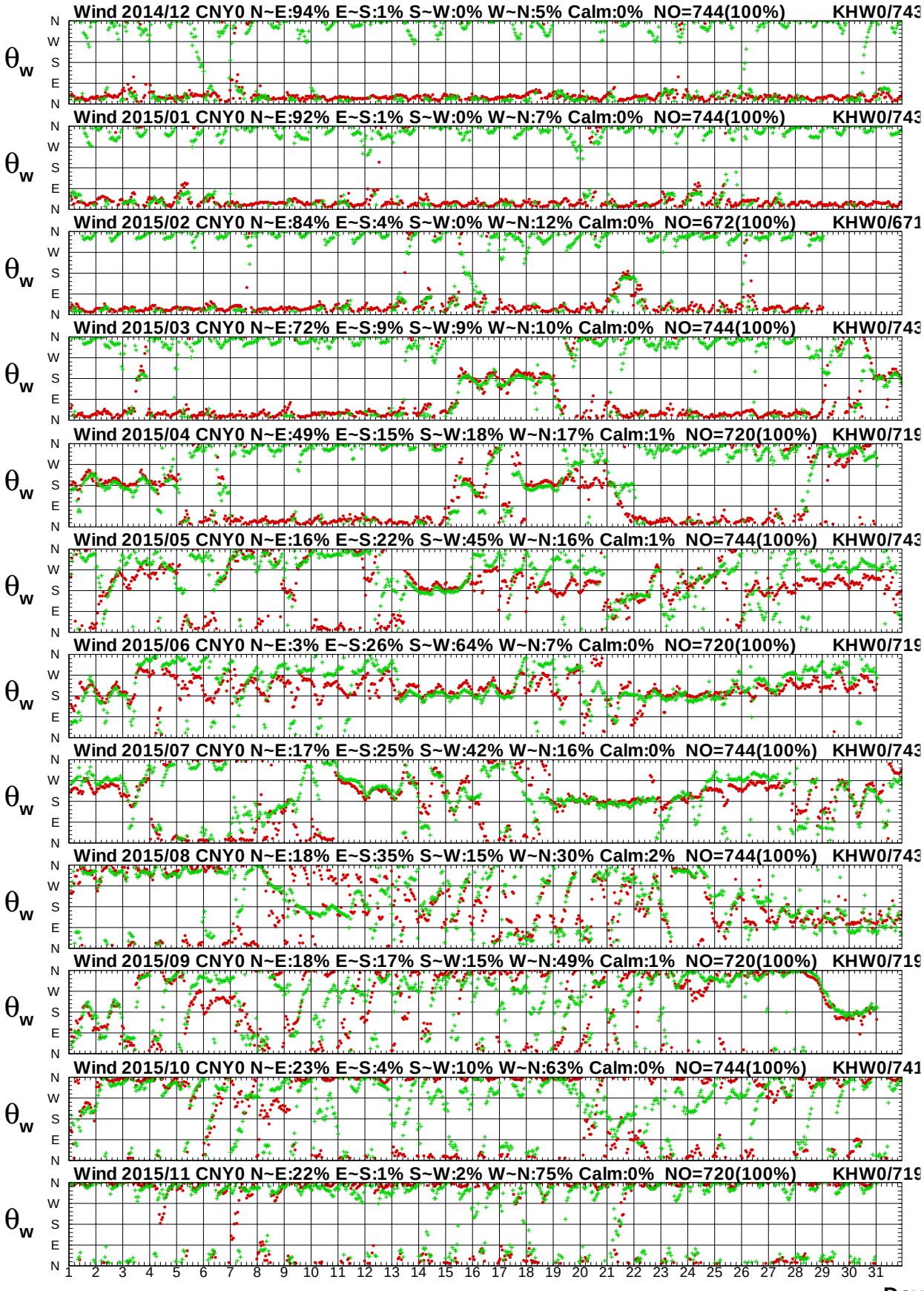

圖 8.10b　2015年每月嘉南海域 Y 站與高雄海域 W 站風向圖

W14CCNY0.1HA W14CKHW0.1H0 W151CNY0.1HA W151KHW0.1H0 W152CNY0.1HA W152KHW0.1H0
W153CNY0.1HA W153KHW0.1H0 W154CNY0.1HA W154KHW0.1H0 W155CNY0.1HA W155KHW0.1H0

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Wind Speed in Chia-Nan Seas of CNY0 at 2015

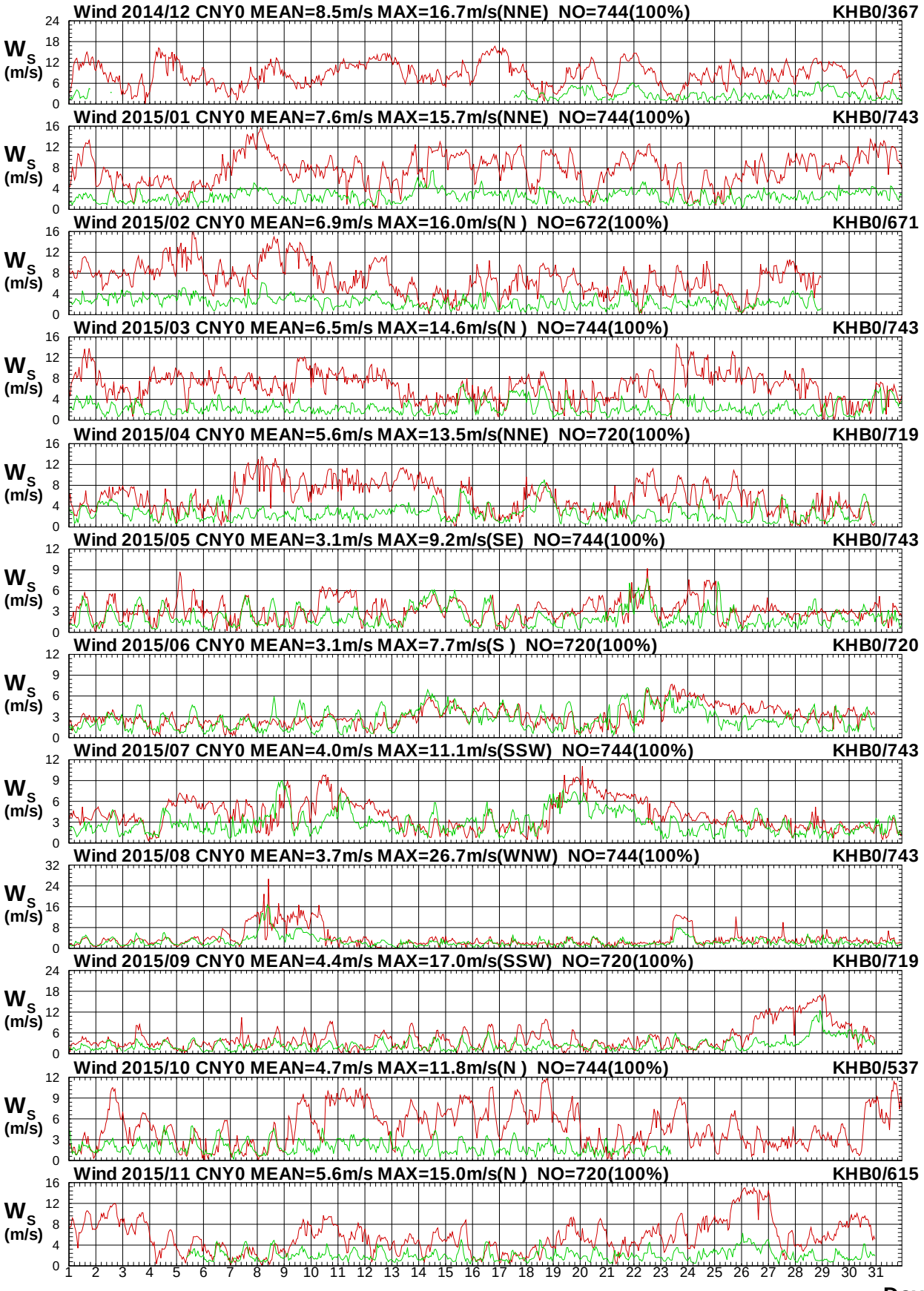

圖8.11a　2015年每月嘉南海域 Y 站與高雄海域 B 站風速圖

W14CCNY0.1HA W14CKHB0.1H0 W151CNY0.1HA W151KHB0.1H0 W152CNY0.1HA W152KHB0.1H0
W153CNY0.1HA W153KHB0.1H0 W154CNY0.1HA W154KHB0.1H0 W155CNY0.1HA W155KHB0.1H0

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Wind Direction in Chia-Nan Seas of CNY0 at 2015

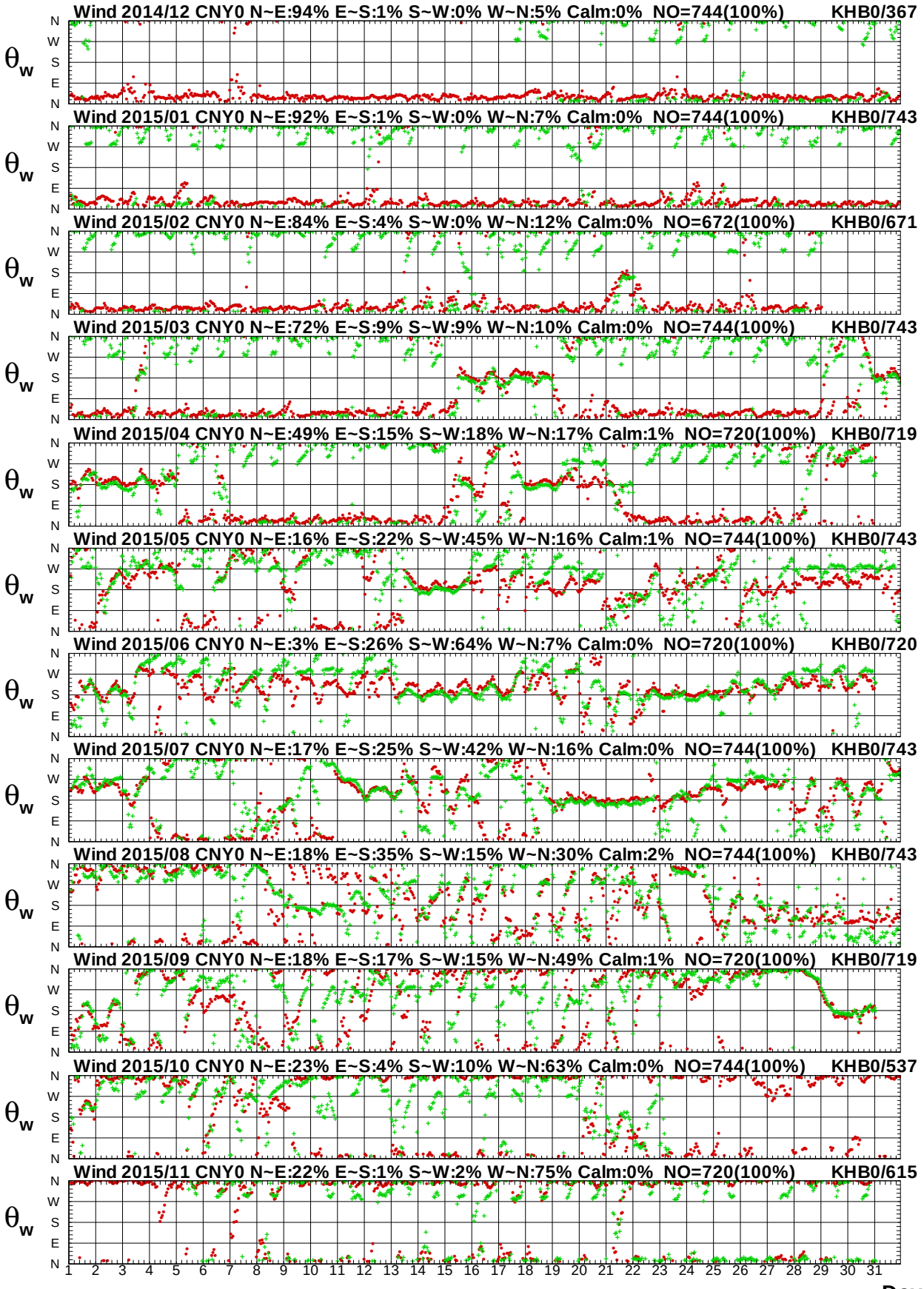

圖8.11b　2015年每月嘉南海域 Y 站與高雄海域 B 站風向圖

W14CCNY0.1HA W14CKHB0.1H0 W151CNY0.1HA W151KHB0.1H0 W152CNY0.1HA W152KHB0.1H0
W153CNY0.1HA W153KHB0.1H0 W154CNY0.1HA W154KHB0.1H0 W155CNY0.1HA W155KHB0.1H0

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Wind Speed in Chia-Nan Seas of CNY0 at 2015

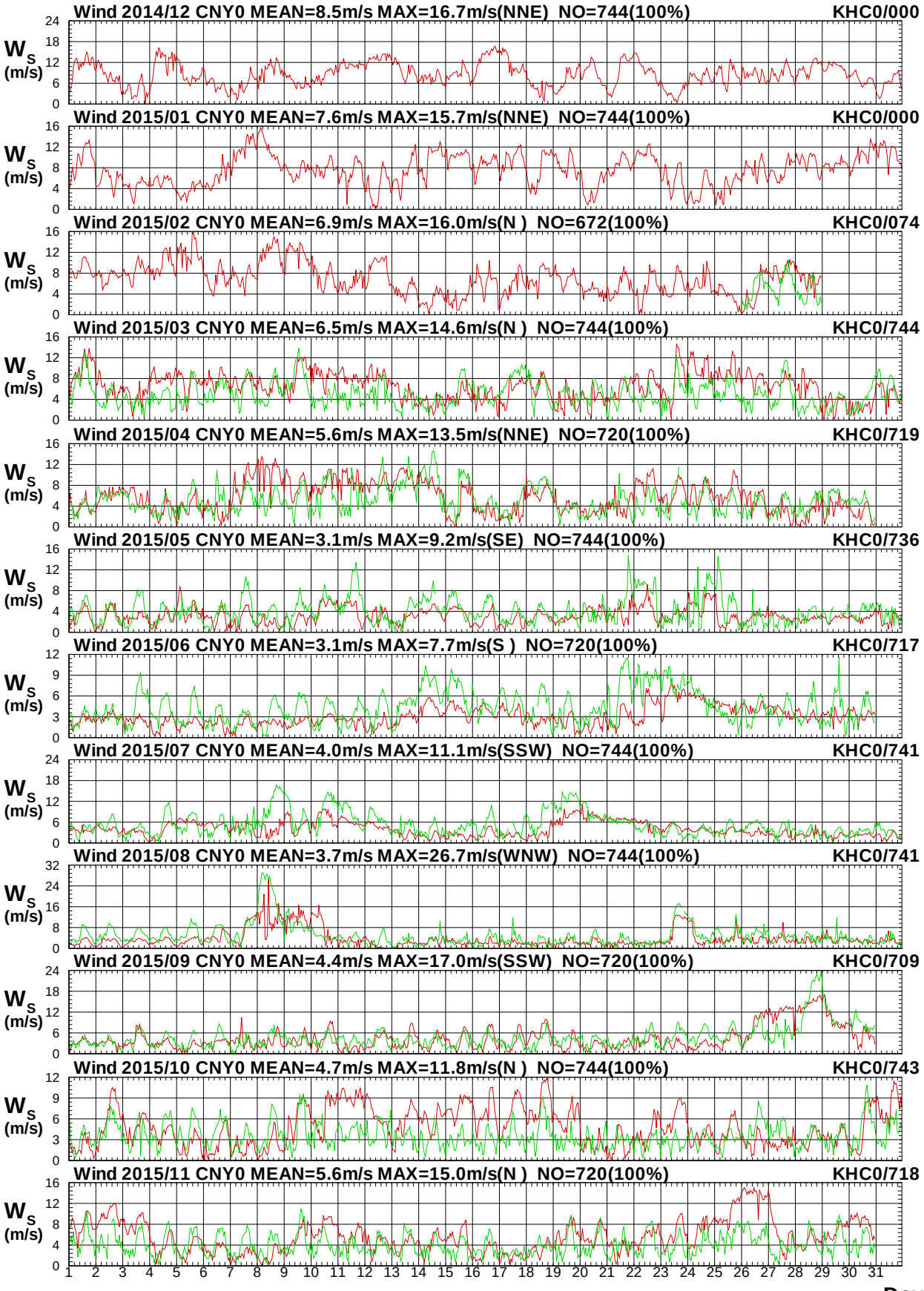

圖8.12a　2015年每月嘉南海域 Y 站與高雄海域 C 站風速圖

W14CCNY0.1HA W14CKHC0.1H0 W151CNY0.1HA W151KHC0.1H0 W152CNY0.1HA W152KHC0.1H0
W153CNY0.1HA W153KHC0.1H0 W154CNY0.1HA W154KHC0.1H0 W155CNY0.1HA W155KHC0.1H0

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Wind Direction in Chia-Nan Seas of CNY0 at 2015

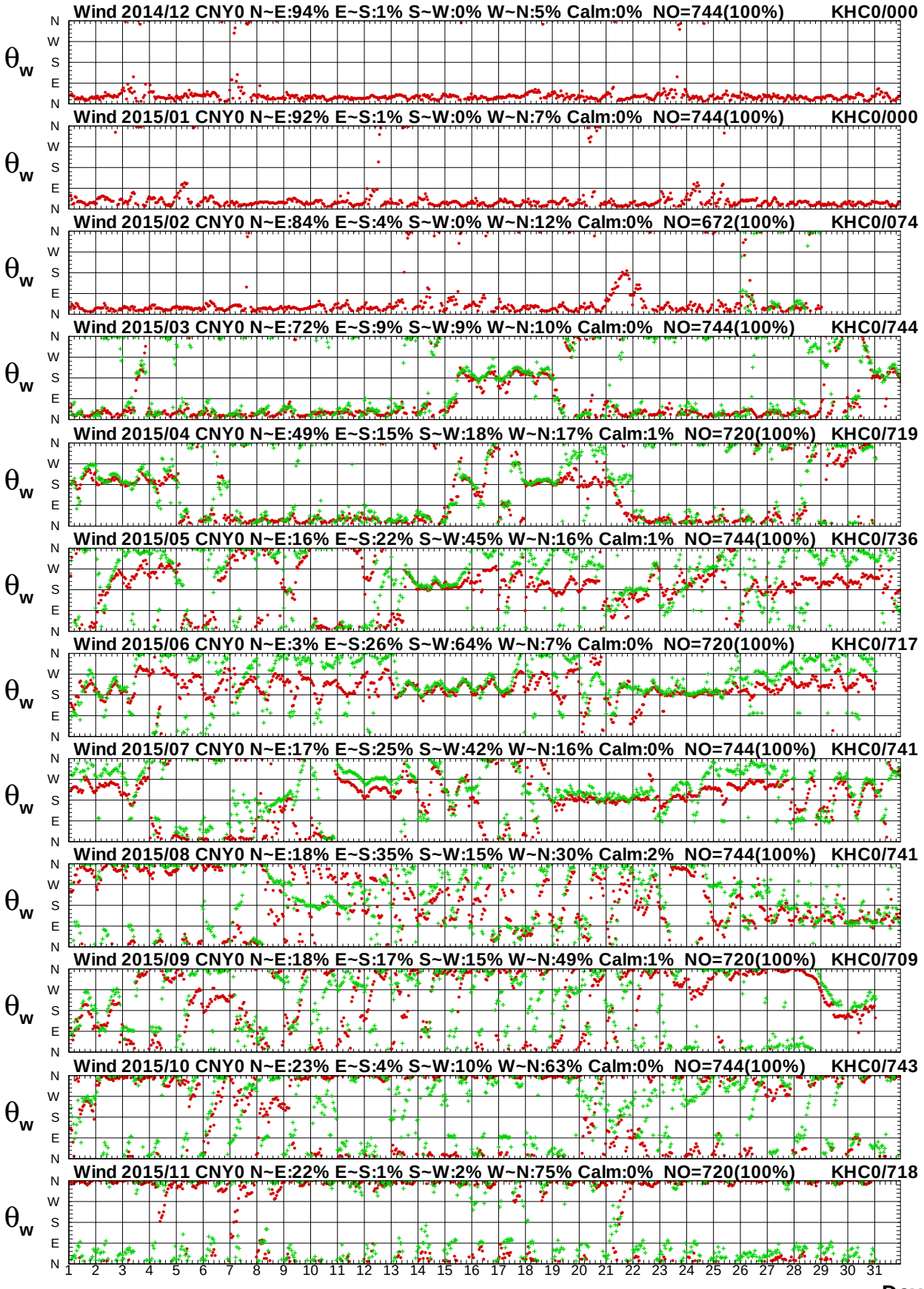

圖8.12b　2015年每月嘉南海域 Y 站與高雄海域 C 站風向圖

Wind Speed in Chia-Nan Seas of CNY0 at 2015

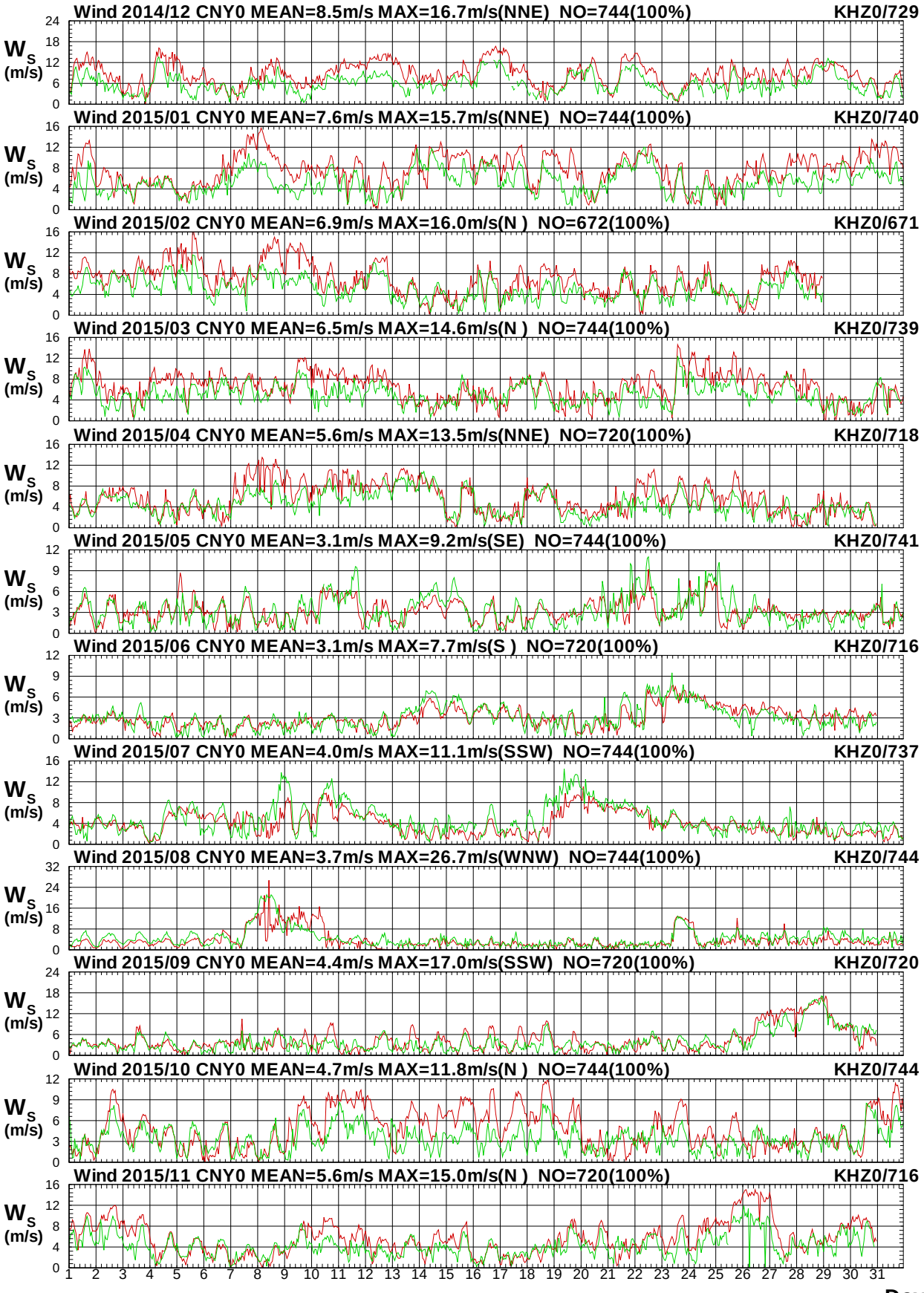

圖8.13a　2015年每月嘉南海域 Y 站與高雄海域 Z 站風速圖

W14CCNY0.1HA W14CKHZ0.1H0 W151CNY0.1HA W151KHZ0.1H0 W152CNY0.1HA W152KHZ0.1H0
W153CNY0.1HA W153KHZ0.1H0 W154CNY0.1HA W154KHZ0.1H0 W155CNY0.1HA W155KHZ0.1H0

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Wind Direction in Chia-Nan Seas of CNY0 at 2015

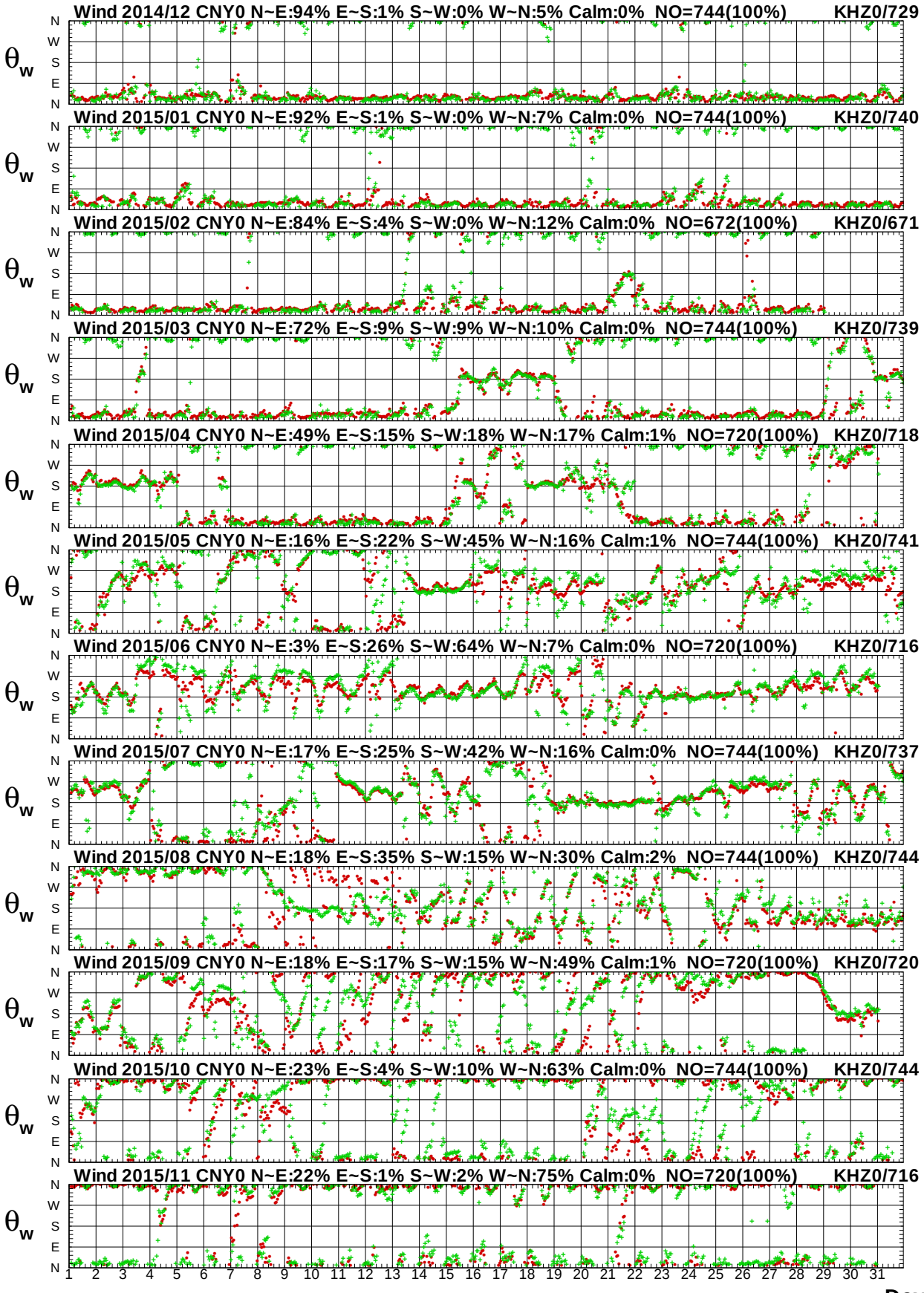

圖8.13b　2015年每月嘉南海域 Y 站與高雄海域 Z 站風向圖

Wind Speed in Chia-Nan Seas of CNY0 at 2015

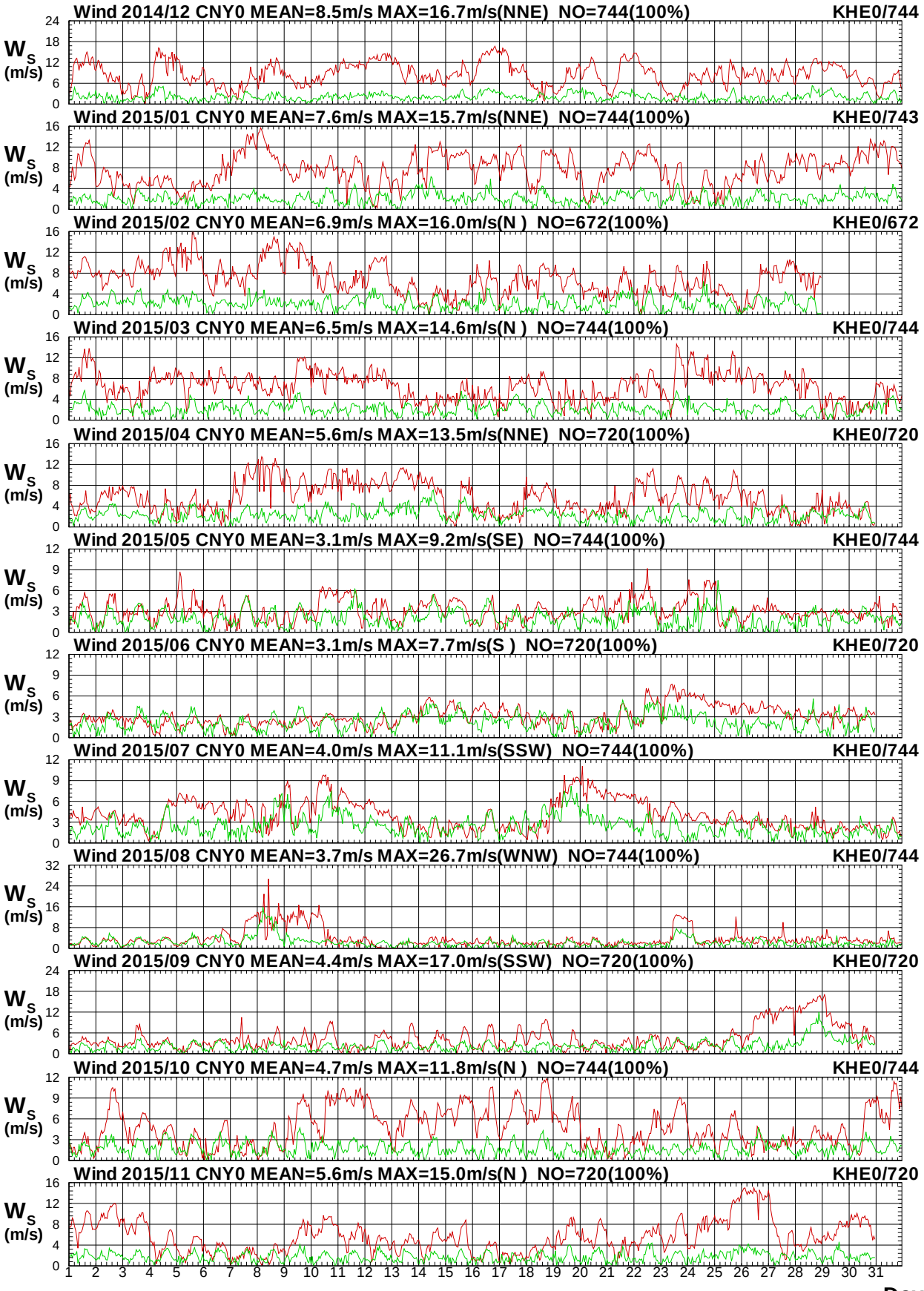

圖8.14a　2015年每月嘉南海域 Y 站與高雄海域 E 站風速圖

W14CCNY0.1HA W14CKHE0.1H0 W151CNY0.1HA W151KHE0.1H0 W152CNY0.1HA W152KHE0.1H0
W153CNY0.1HA W153KHE0.1H0 W154CNY0.1HA W154KHE0.1H0 W155CNY0.1HA W155KHE0.1H0

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Wind Direction in Chia-Nan Seas of CNY0 at 2015

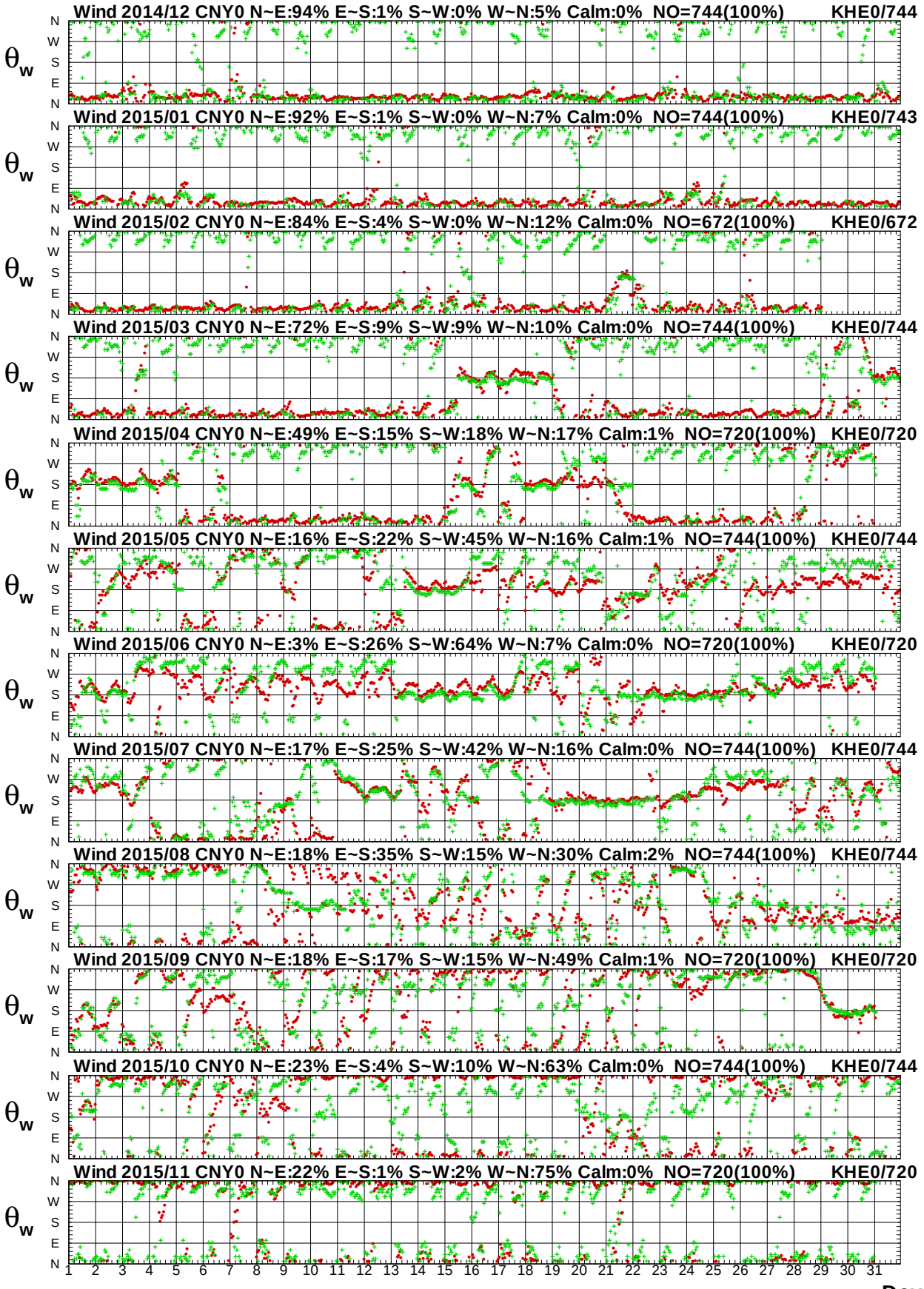

圖8.14b　2015年每月嘉南海域 Y 站與高雄海域 E 站風向圖

Wind Speed in Chia-Nan Seas of CNY0 at 2015

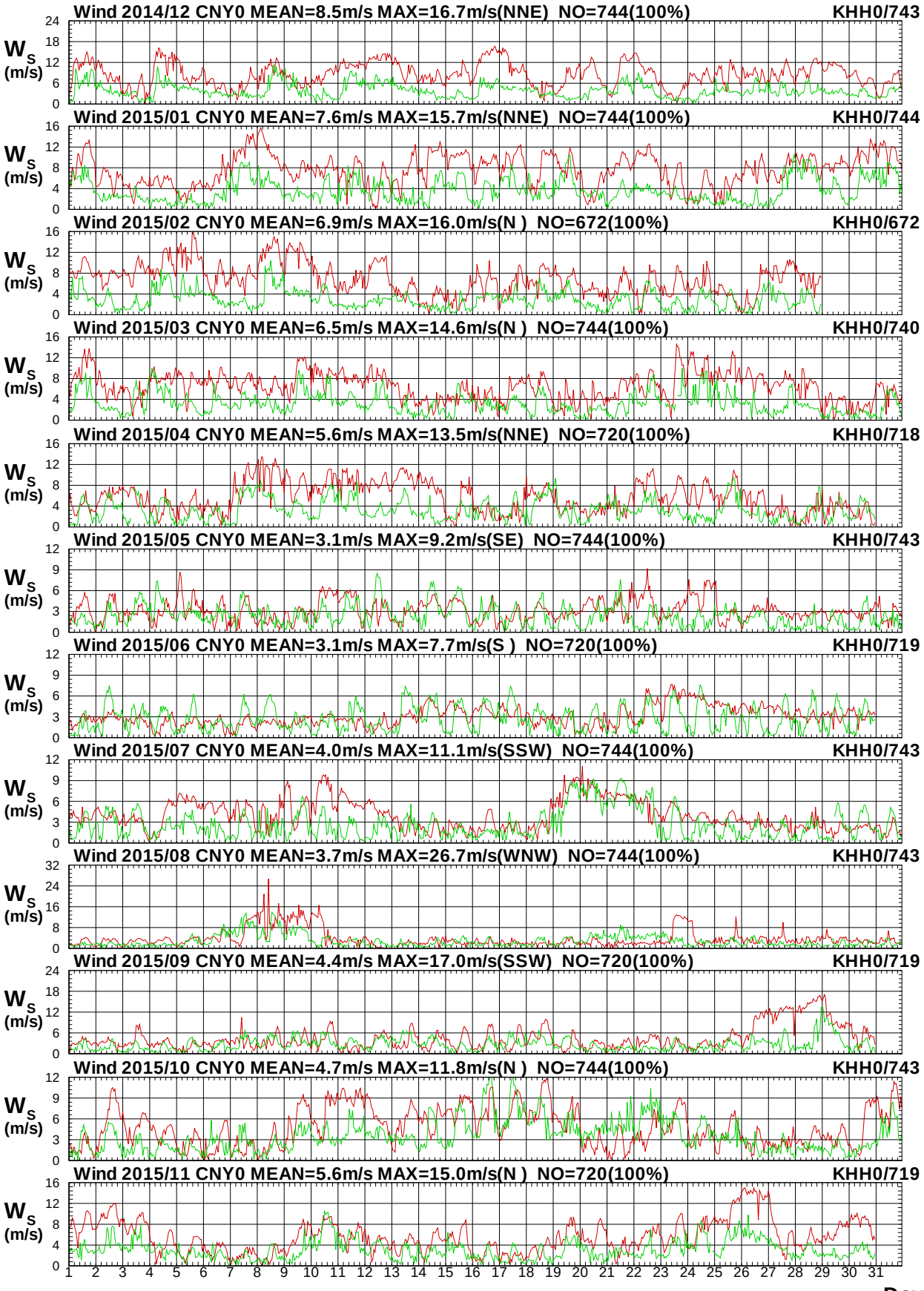

圖8.15a　2015年每月嘉南海域 Y 站與高雄海域 H 站風速圖

W14CCNY0.1HA W14CKHH0.1H0 W151CNY0.1HA W151KHH0.1H0 W152CNY0.1HA W152KHH0.1H0
W153CNY0.1HA W153KHH0.1H0 W154CNY0.1HA W154KHH0.1H0 W155CNY0.1HA W155KHH0.1H0

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Wind Direction in Chia-Nan Seas of CNY0 at 2015

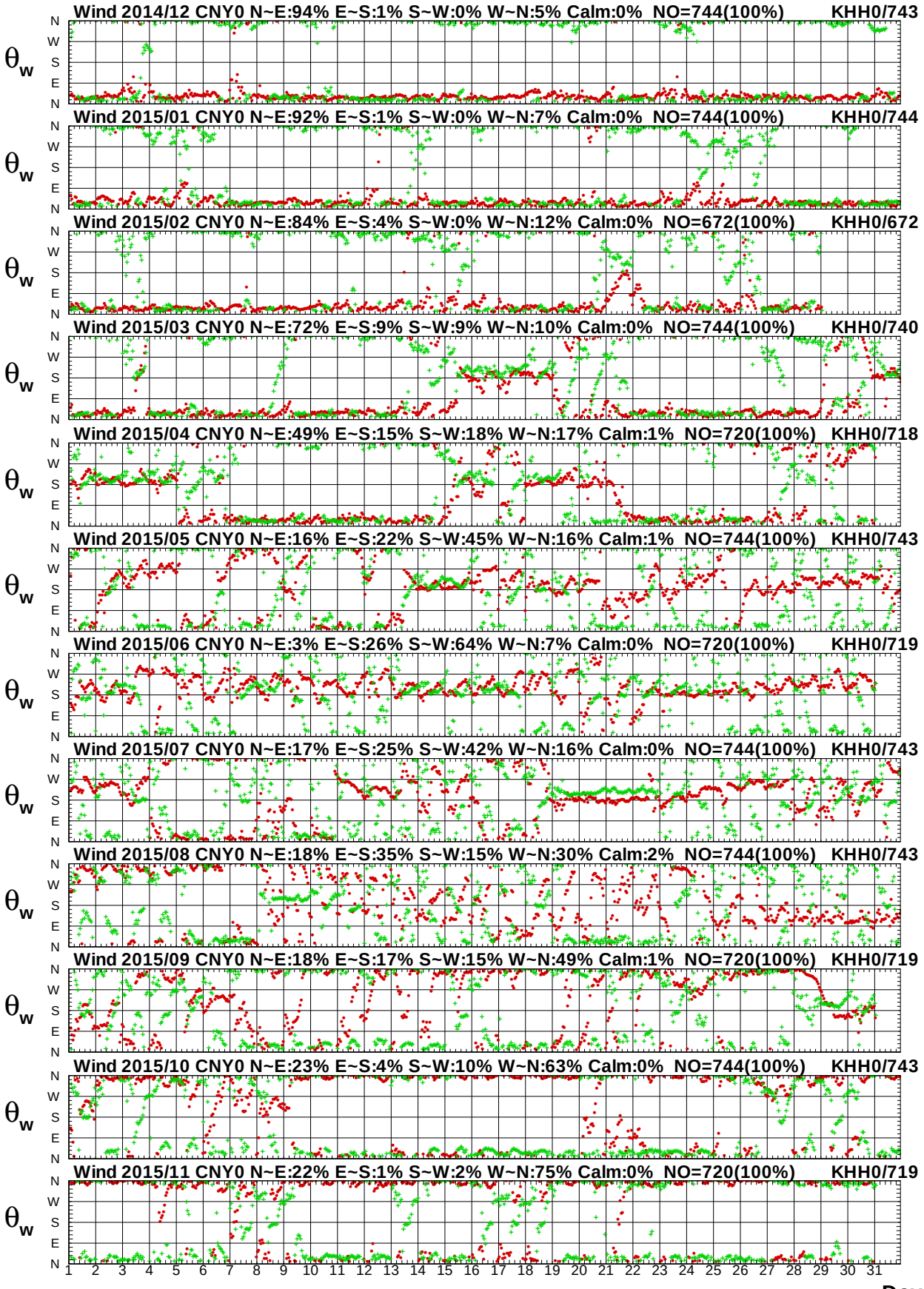

圖8.15b　2015年每月嘉南海域 Y 站與高雄海域 H 站風向圖

Wind Speed in Chia-Nan Seas of CNY0 at 2015

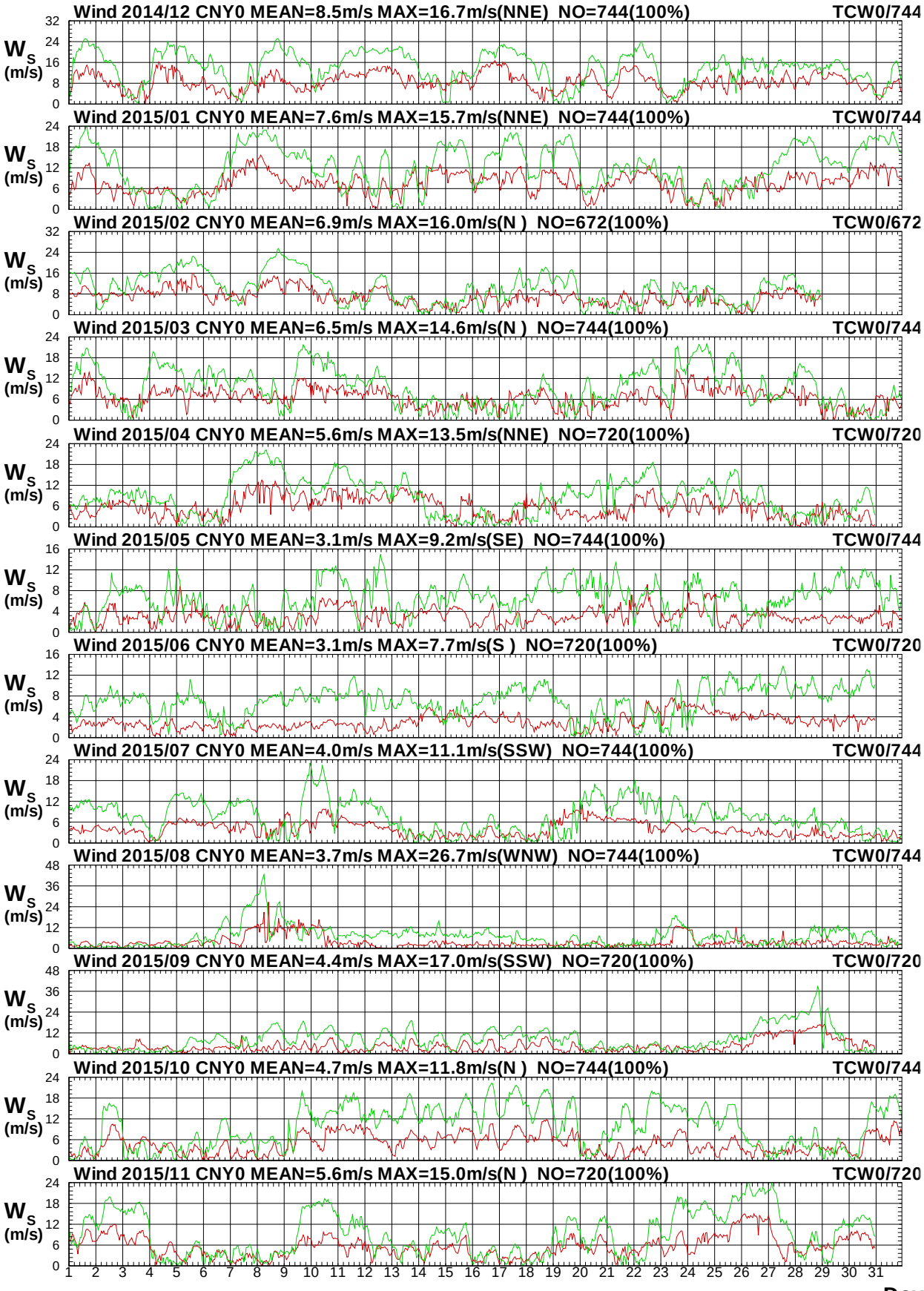

圖 8.16a　2015年每月嘉南海域 Y 站與中雲海域 W 站風速圖

W14CCNY0.1HA W14CTCW0.1H0 W151CNY0.1HA W151TCW0.1H0 W152CNY0.1HA W152TCW0.1H0
W153CNY0.1HA W153TCW0.1H0 W154CNY0.1HA W154TCW0.1H0 W155CNY0.1HA W155TCW0.1H0

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Wind Direction in Chia-Nan Seas of CNY0 at 2015

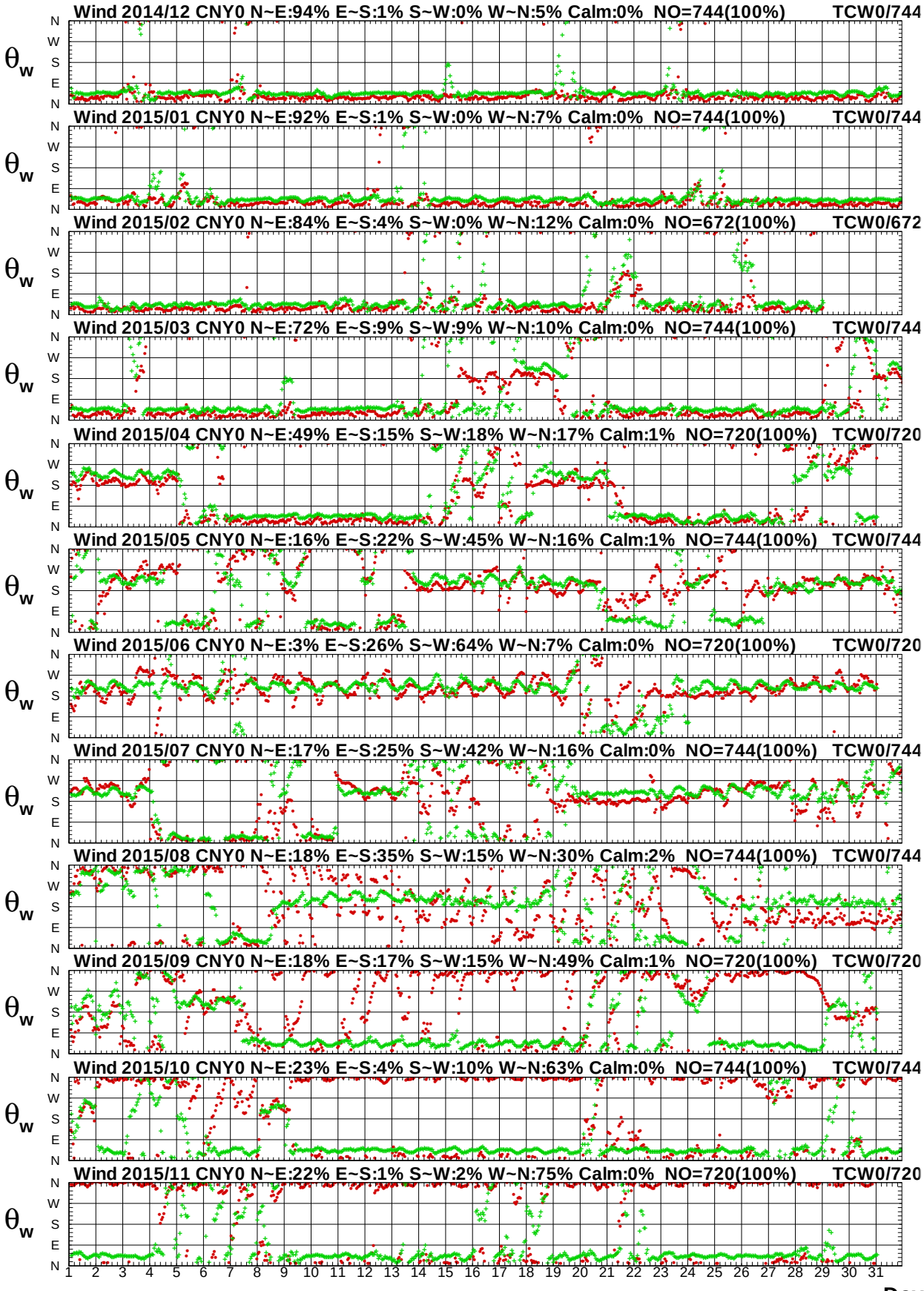

圖 8.16b　2015年每月嘉南海域 Y 站與中雲海域 W 站風向圖

Wind Speed in Chia-Nan Seas of CNY0 at 2015

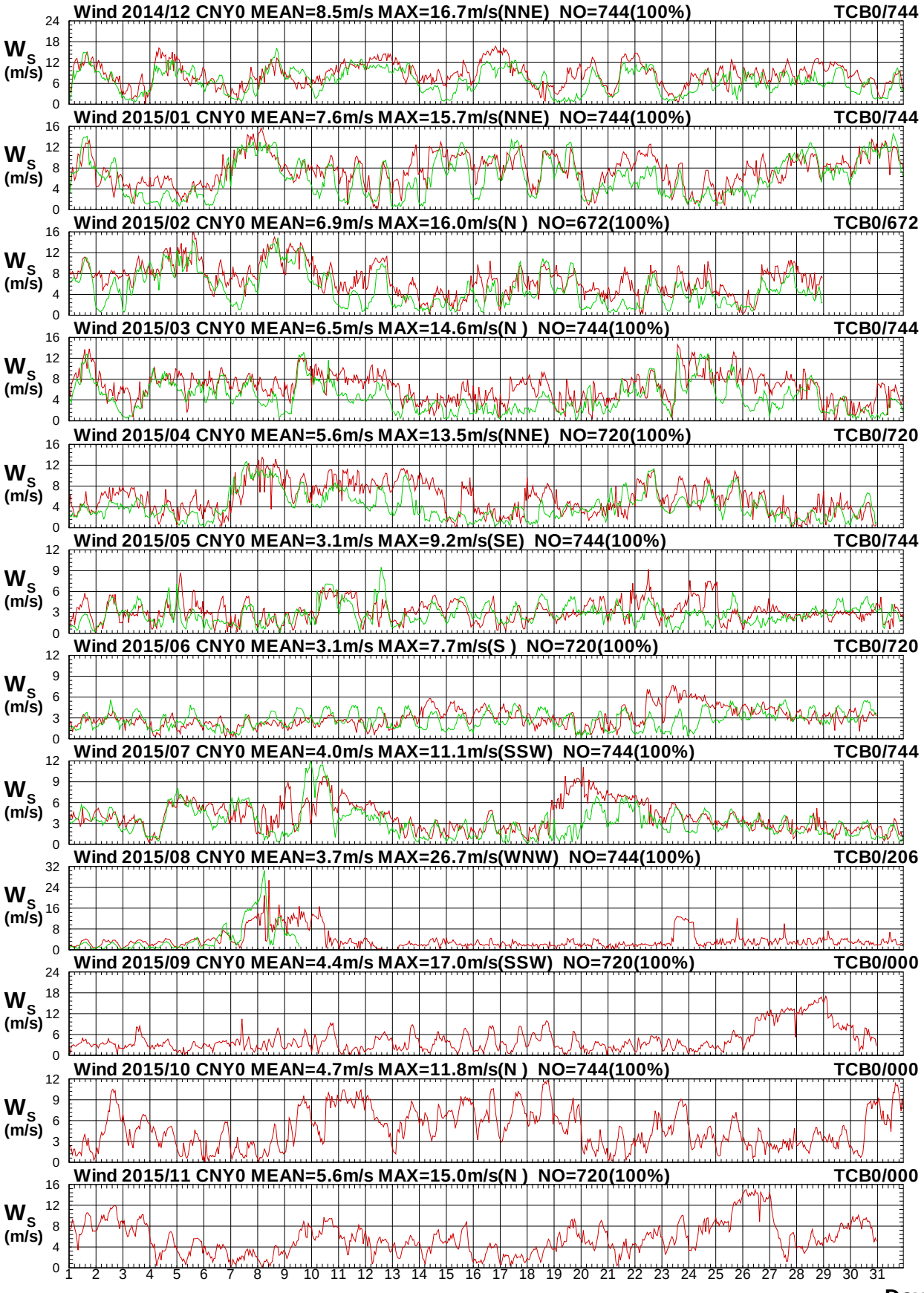

圖8.17a　2015年每月嘉南海域 Y 站與中雲海域 B 站風速圖

W14CCNY0.1HA W14CTCB0.1H0 W151CNY0.1HA W151TCB0.1H0 W152CNY0.1HA W152TCB0.1H0
W153CNY0.1HA W153TCB0.1H0 W154CNY0.1HA W154TCB0.1H0 W155CNY0.1HA W155TCB0.1H0

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Wind Direction in Chia-Nan Seas of CNY0 at 2015

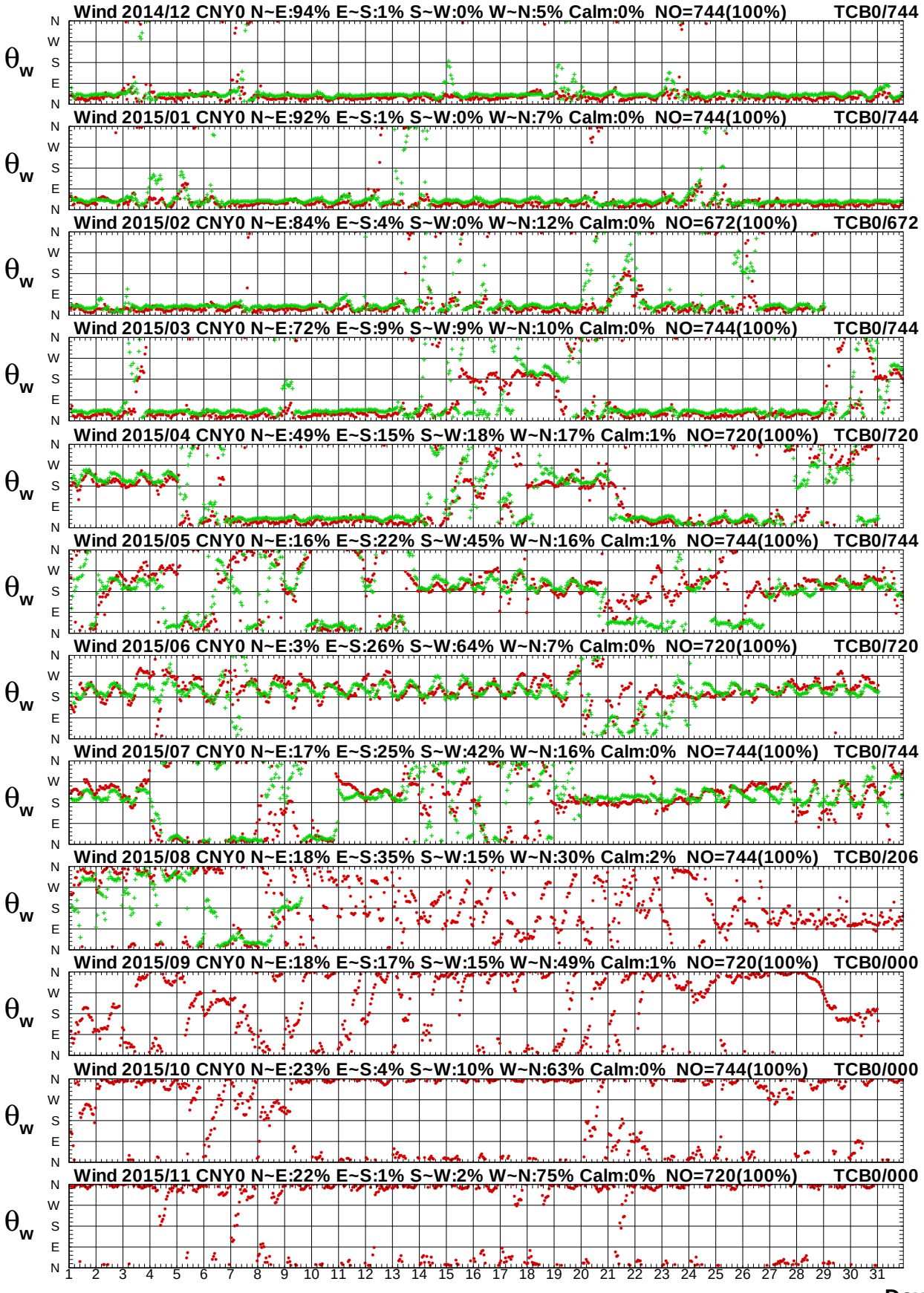

圖8.17b　2015年每月嘉南海域 Y 站與中雲海域 B 站風向圖

W14CCNY0.1HA W14CTCB0.1H0 W151CNY0.1HA W151TCB0.1H0 W152CNY0.1HA W152TCB0.1H0
W153CNY0.1HA W153TCB0.1H0 W154CNY0.1HA W154TCB0.1H0 W155CNY0.1HA W155TCB0.1H0

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Wind Speed in Chia-Nan Seas of CNY0 at 2015

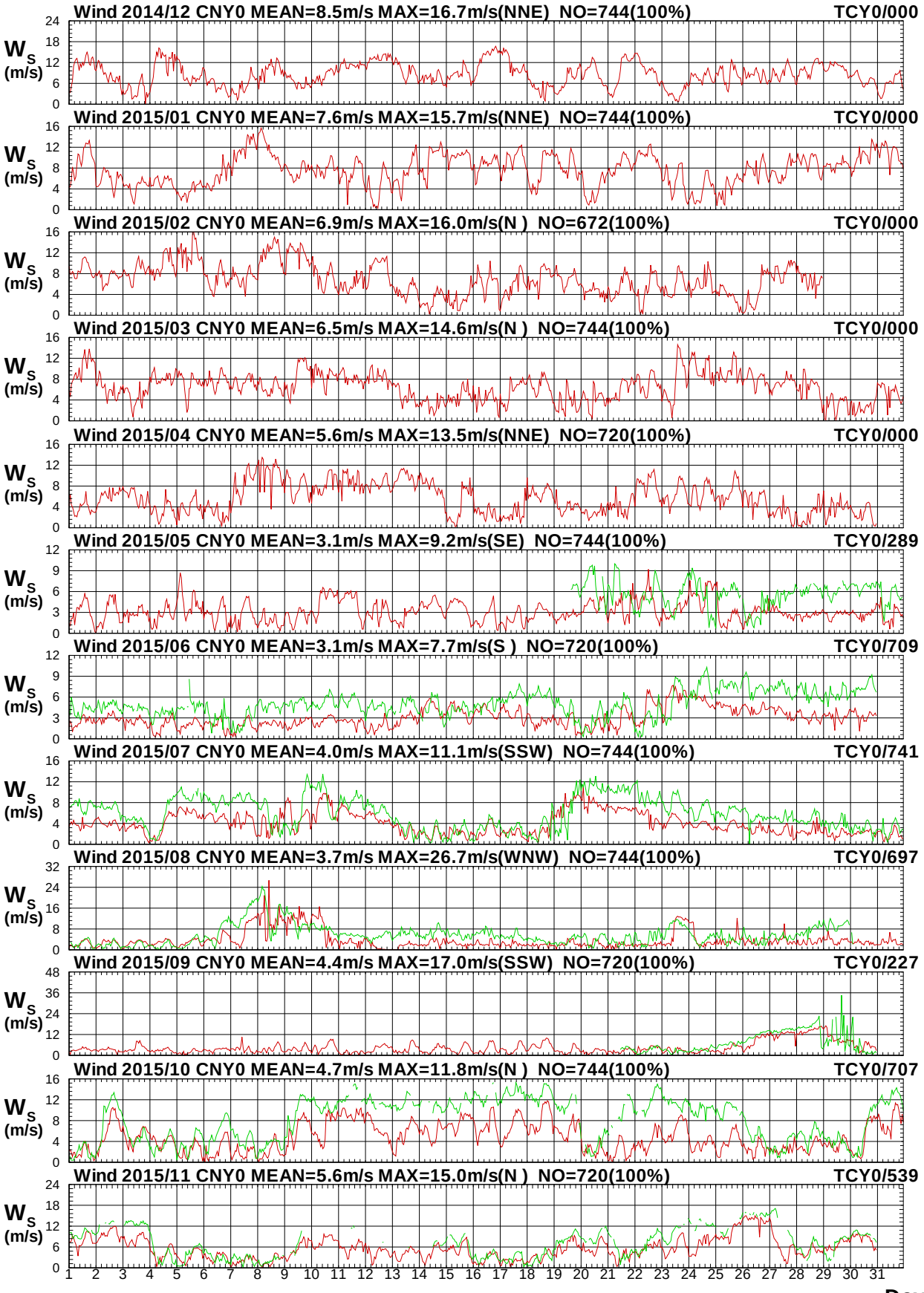

圖8.18a　2015年每月嘉南海域 Y 站與中雲海域 Y 站風速圖

W14CCNY0.1HA W14CTCY0.1H0 W151CNY0.1HA W151TCY0.1H0 W152CNY0.1HA W152TCY0.1H0
W153CNY0.1HA W153TCY0.1H0 W154CNY0.1HA W154TCY0.1H0 W155CNY0.1HA W155TCY0.1H0

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Wind Direction in Chia-Nan Seas of CNY0 at 2015

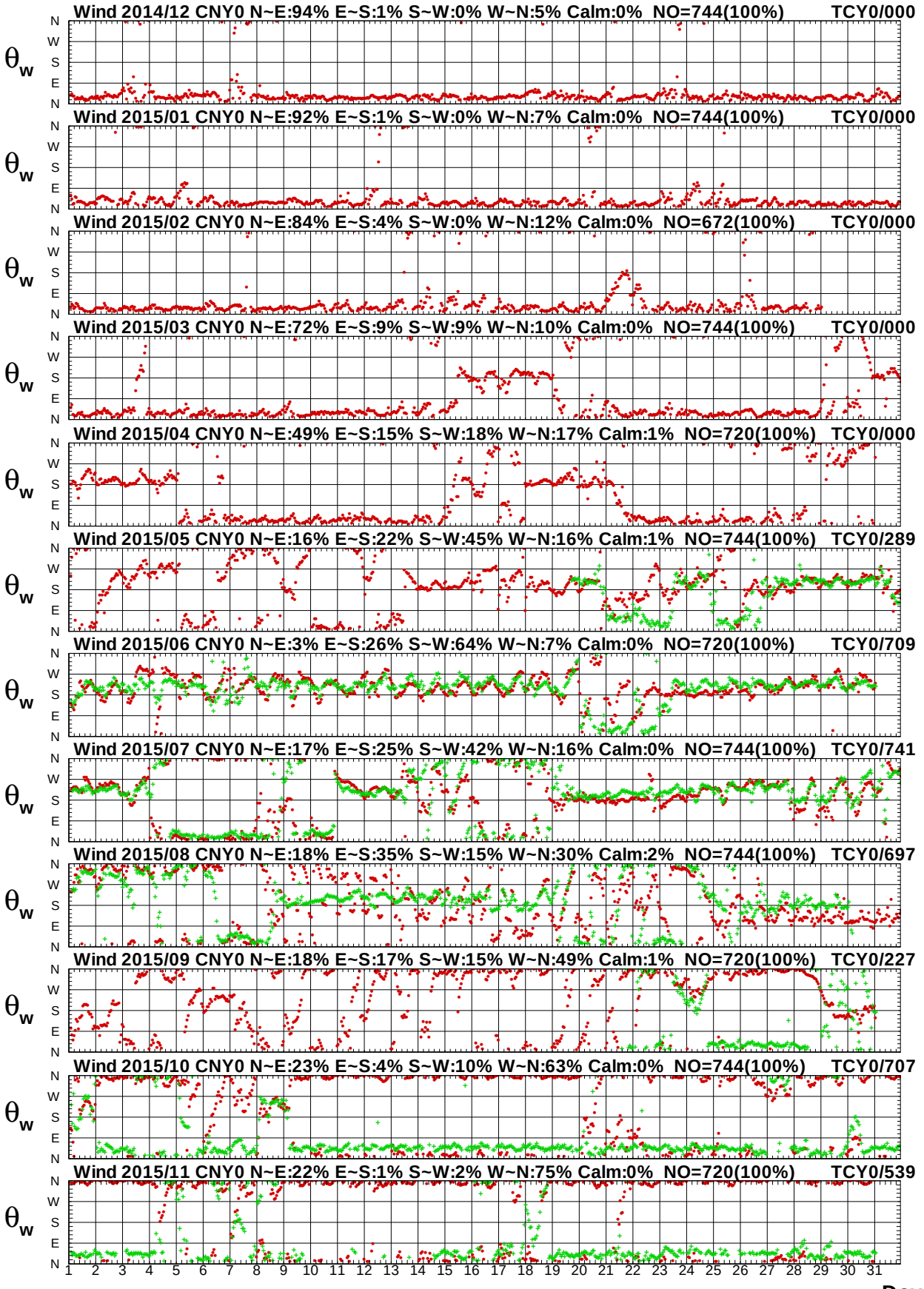

圖8.18b　2015年每月嘉南海域 Y 站與中雲海域 Y 站風向圖

W14CCNY0.1HA W14CTCY0.1H0 W151CNY0.1HA W151TCY0.1H0 W152CNY0.1HA W152TCY0.1H0
W153CNY0.1HA W153TCY0.1H0 W154CNY0.1HA W154TCY0.1H0 W155CNY0.1HA W155TCY0.1H0

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Wind Speed in Chia-Nan Seas of CNY0 at 2015

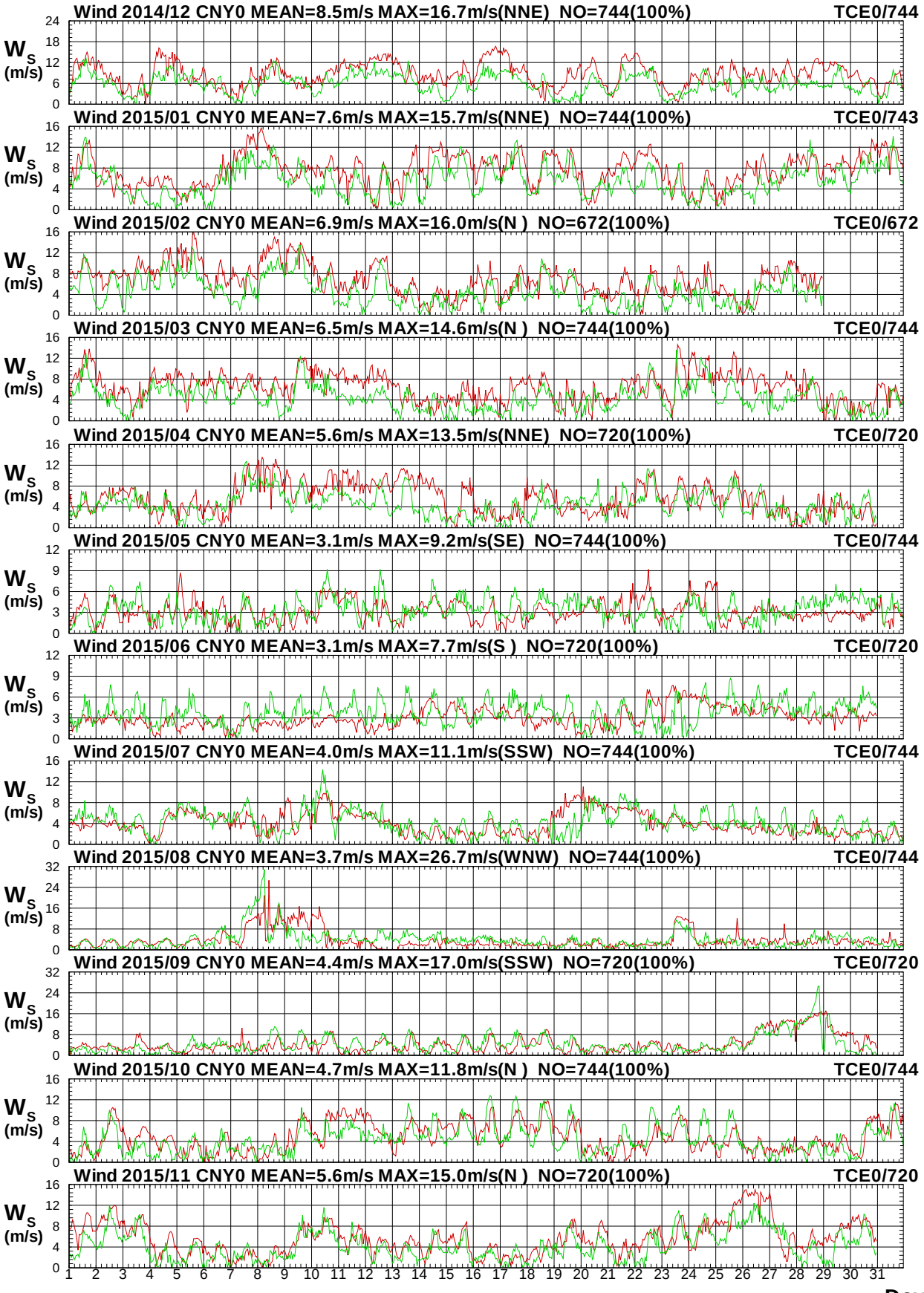

圖8.19a　2015年每月嘉南海域 Y 站與中雲海域 E 站風速圖

W14CCNY0.1HA W14CTCE0.1H0 W151CNY0.1HA W151TCE0.1H0 W152CNY0.1HA W152TCE0.1H0
W153CNY0.1HA W153TCE0.1H0 W154CNY0.1HA W154TCE0.1H0 W155CNY0.1HA W155TCE0.1H0

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Wind Direction in Chia-Nan Seas of CNY0 at 2015

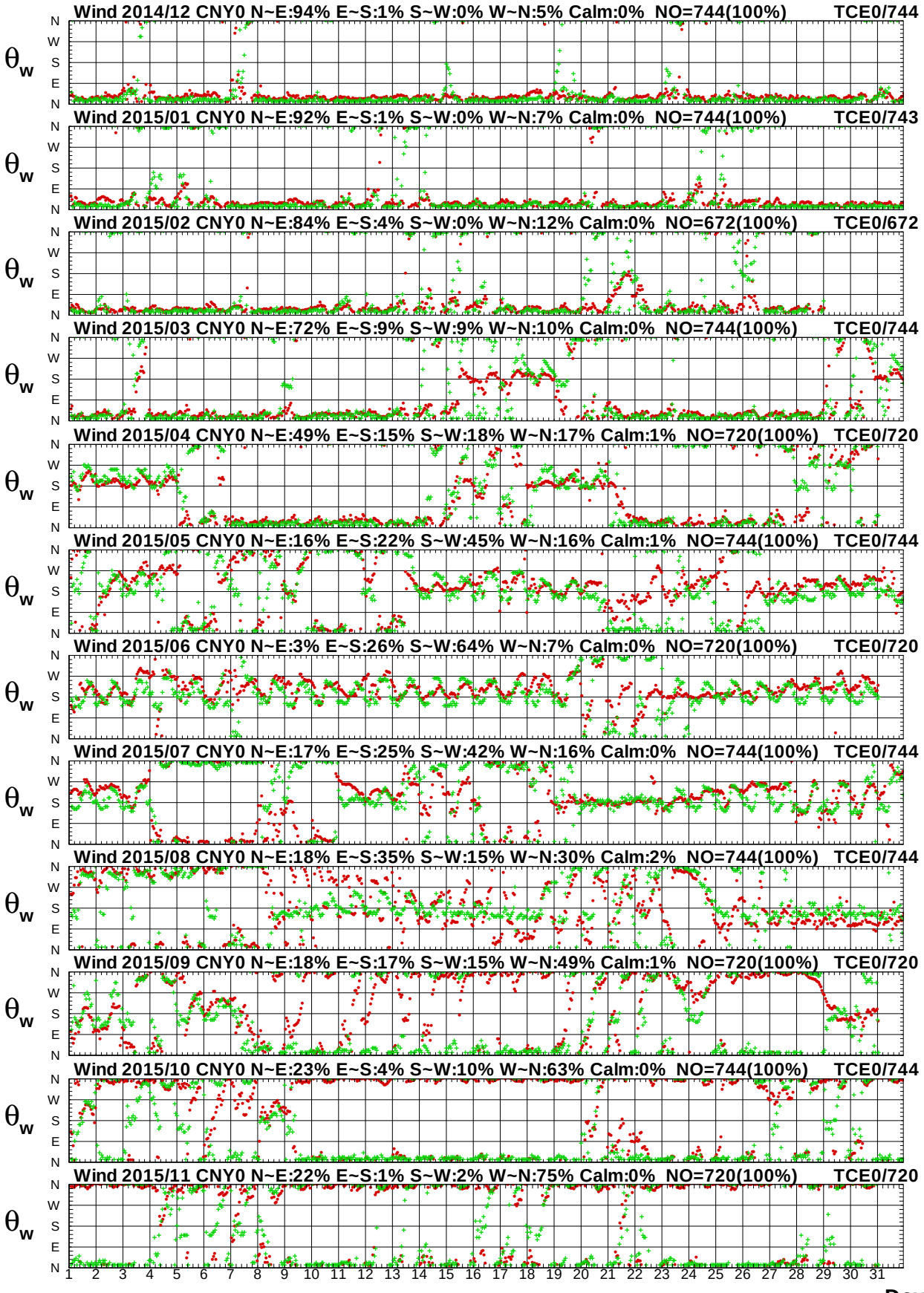

圖8.19b　2015年每月嘉南海域 Y 站與中雲海域 E 站風向圖

W14CCNY0.1HA W14CTCE0.1H0 W151CNY0.1HA W151TCE0.1H0 W152CNY0.1HA W152TCE0.1H0
W153CNY0.1HA W153TCE0.1H0 W154CNY0.1HA W154TCE0.1H0 W155CNY0.1HA W155TCE0.1H0

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Wind Speed in Chia-Nan Seas of CNY0 at 2015

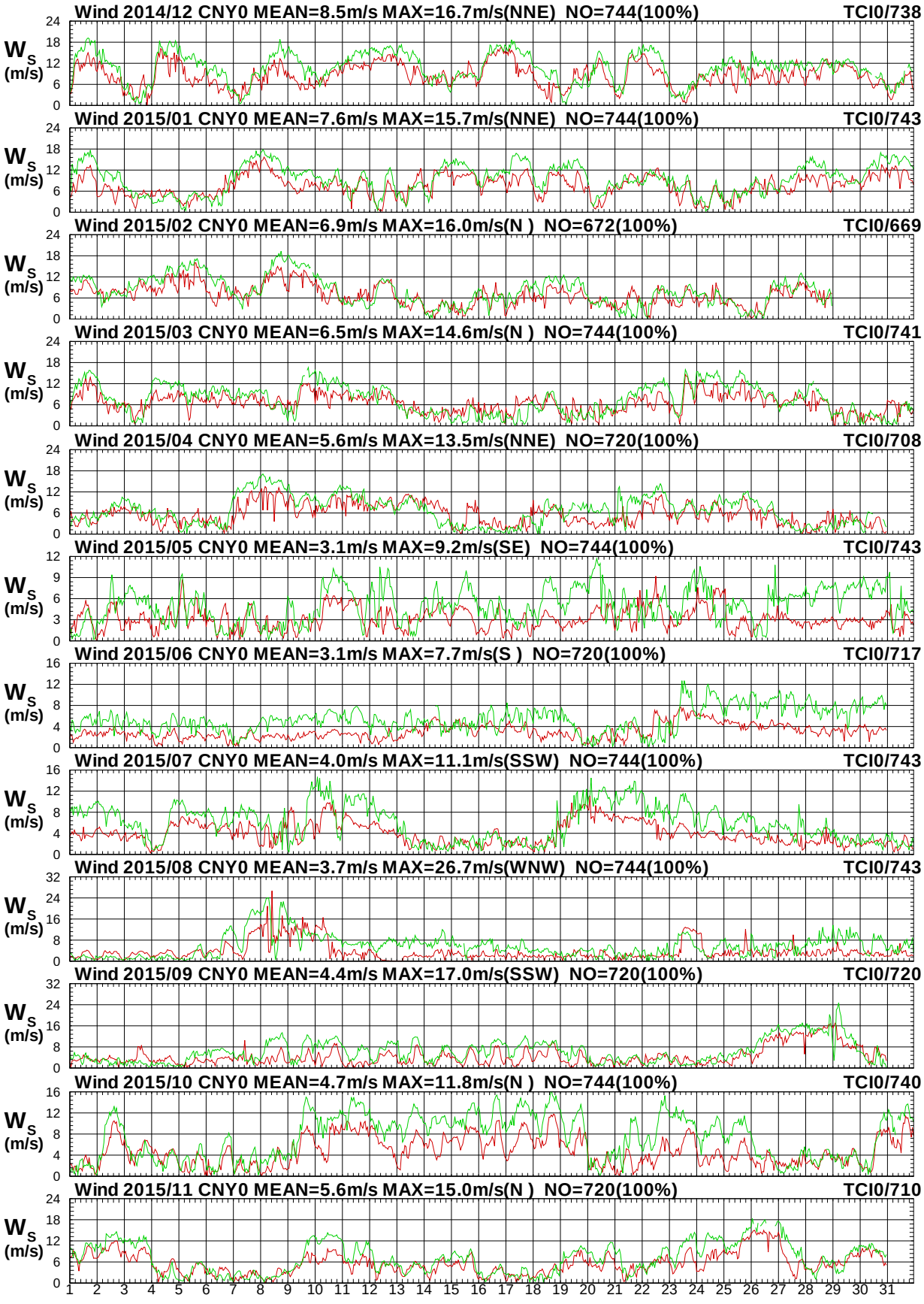

圖 8.20a　2015年每月嘉南海域 Y 站與中雲海域 I 站風速圖

W14CCNY0.1HA W14CTCI0.1H0 W151CNY0.1HA W151TCI0.1H0 W152CNY0.1HA W152TCI0.1H0
W153CNY0.1HA W153TCI0.1H0 W154CNY0.1HA W154TCI0.1H0 W155CNY0.1HA W155TCI0.1H0

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Wind Direction in Chia-Nan Seas of CNY0 at 2015

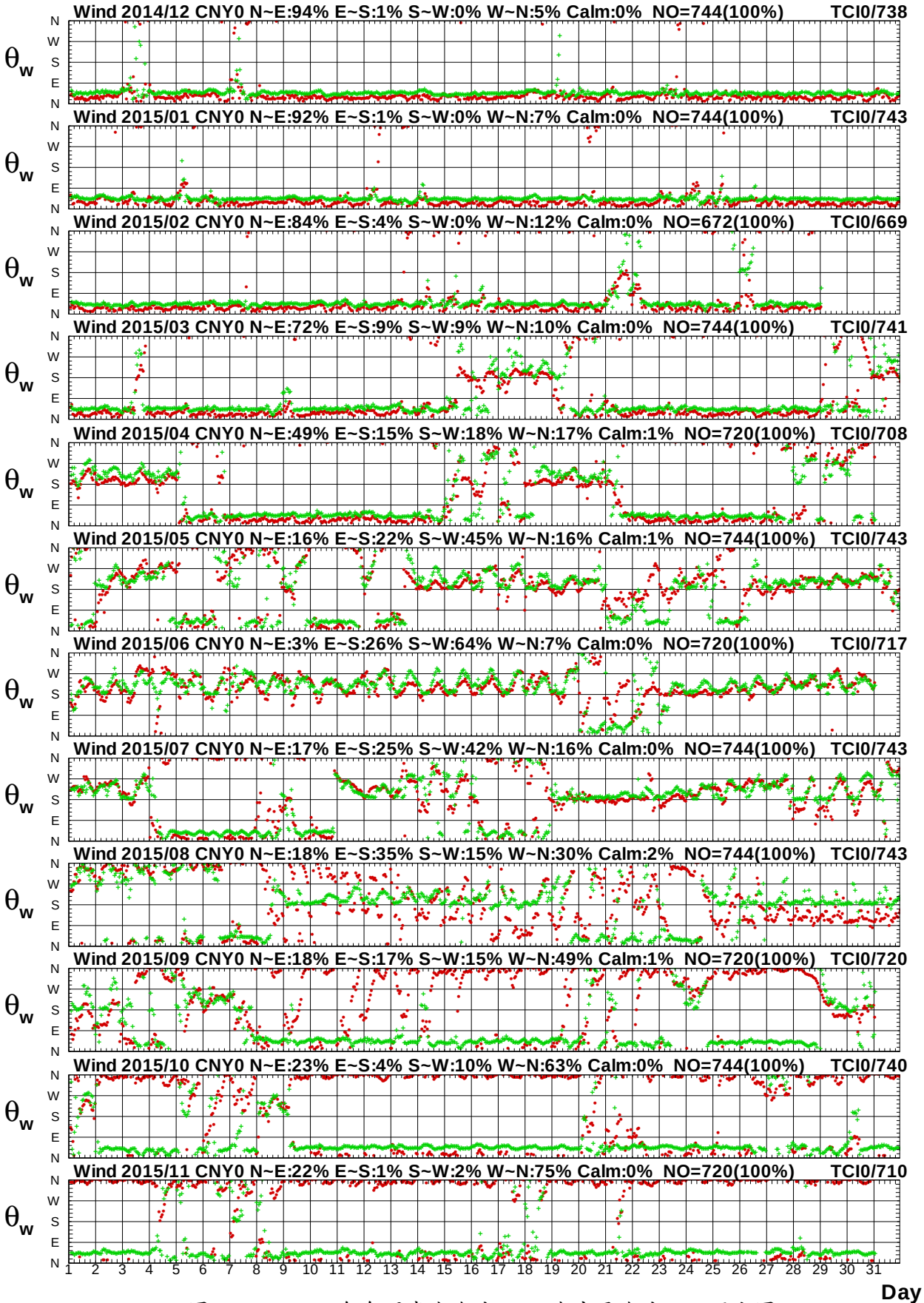

圖8.20b　2015年每月嘉南海域 Y 站與中雲海域 I 站風向圖

W14CCNY0.1HA W14CTCI0.1H0 W151CNY0.1HA W151TCI0.1H0 W152CNY0.1HA W152TCI0.1H0
W153CNY0.1HA W153TCI0.1H0 W154CNY0.1HA W154TCI0.1H0 W155CNY0.1HA W155TCI0.1H0

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第九章　2015 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 9。。

測站 E 之風速儀屬中央氣象局**(CWB)**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 9。

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。其他測站觀測資料也是平均風速(m/s)及風向(度)。

本風力年報以取經檢核或修補後之 **W 站**資料作為**主要觀測站**，2015 年主要觀測站修補前(後)每月觀測之風資料記錄期間統計表，如表 9.1a，2015 年風力**次要觀測站**資料(未補餘)記錄統計表，如表 9.1b，**主要觀測站修補前後**每月風力歷線比較圖，如圖 9.1，**主要觀測站**與**次要觀測站**(或**其他觀測站**)每月風力歷線比較圖，如圖 9.2 以後。

表 9 中雲海域觀測風力資料蒐集概況表(統計時間至 2015 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	2001/07-2015/11(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 2005/09-2015/11(觀測中)	港研中心	台中港北堤燈塔
E	24°15'25"N	120°31'23"E	1996/09-2015/11(觀測中)	中央氣象局	梧棲站
Y	24°01'12"N	120°13'59"E	2006/08-2015/11(觀測中)	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	2006/09-2015/11(觀測中)	水利署	麥寮氣象站
Z	24°06'24"	119°41'33"	2006/09-2015/11(觀測中)	中興工程	彰化外海一浮標
R	24°06'56"	119°51'08"	2006/09-2015/11(觀測中)	中興工程	彰化外海二浮標

圖 9 中雲海域風力觀測站位置示意圖

表9.1a 2015年每月中雲海域修補前各測站觀測風力資料紀錄統計表

年/月 港區	中雲海域	中雲海域	中雲海域	中雲海域	中雲海域	中雲海域	中雲海域	中雲海域
測站	W	Y	B	E	H	I	R	Z
2014/12月	744 (100%)	*	744 (100%)	744 (100%)	*	738 (99.2%)	*	*
2015/ 1月	744 (100%)	*	744 (100%)	743 (99.9%)	*	743 (99.9%)	*	*
2015/ 2月	672 (100%)	*	672 (100%)	672 (100%)	*	669 (99.6%)	*	*
2015/ 3月	744 (100%)	*	744 (100%)	744 (100%)	*	741 (99.6%)	*	*
2015/ 4月	720 (100%)	*	720 (100%)	720 (100%)	*	708 (98.3%)	*	*
2015/ 5月	744 (100%)	289 (38.8%)	744 (100%)	744 (100%)	*	743 (99.9%)	*	*
2015/ 6月	720 (100%)	709 (98.5%)	720 (100%)	720 (100%)	*	717 (99.6%)	*	*
2015/ 7月	744 (100%)	741 (99.6%)	744 (100%)	744 (100%)	*	743 (99.9%)	*	*
2015/ 8月	744 (100%)	697 (93.7%)	206 (27.7%)	744 (100%)	*	743 (99.9%)	*	*
2015/ 9月	720 (100%)	227 (31.5%)	*	720 (100%)	*	720 (100%)	*	*
2015/10月	744 (100%)	707 (95.0%)	*	744 (100%)	*	740 (99.5%)	*	*
2015/11月	720 (100%)	539 (74.9%)	*	720 (100%)	*	710 (98.6%)	*	*
2015/冬季	2160 (100%)	*	2160 (100%)	2159 (100.0%)	*	2150 (99.5%)	*	*
2015/春季	2208 (100%)	289 (13.1%)	2208 (100%)	2208 (100%)	*	2192 (99.3%)	*	*
2015/夏季	2208 (100%)	2147 (97.2%)	1670 (75.6%)	2208 (100%)	*	2203 (99.8%)	*	*
2015/秋季	2184 (100%)	1473 (67.4%)	*	2184 (100%)	*	2170 (99.4%)	*	*
2015/整年	8760 (100%)	3909 (44.6%)	6038 (68.9%)	8759 (100.0%)	*	8715 (99.5%)	*	*
起始年月	2014/12	2015/05	2014/12	2014/12	*	2014/12	*	*
結束年月	2015/11	2015/11	2015/08	2015/11	*	2015/11	*	*

表9.1b 2015年每月中雲海域修補後各測站風力資料統計表

年/月 港區	中雲海域	中雲海域	中雲海域	中雲海域	中雲海域	中雲海域	中雲海域	中雲海域
測站	W	Y	B	E	H	I	R	Z
2014/12月	744 (100%)	*	744 (100%)	744 (100%)	*	744 (100%)	*	*
2015/ 1月	744 (100%)	*	744 (100%)	744 (100%)	*	744 (100%)	*	*
2015/ 2月	672 (100%)	*	672 (100%)	672 (100%)	*	672 (100%)	*	*
2015/ 3月	744 (100%)	*	744 (100%)	744 (100%)	*	744 (100%)	*	*
2015/ 4月	720 (100%)	*	720 (100%)	720 (100%)	*	720 (100%)	*	*
2015/ 5月	744 (100%)	744 (100%)	744 (100%)	744 (100%)	*	744 (100%)	*	*
2015/ 6月	720 (100%)	720 (100%)	720 (100%)	720 (100%)	*	720 (100%)	*	*
2015/ 7月	744 (100%)	744 (100%)	744 (100%)	744 (100%)	*	744 (100%)	*	*
2015/ 8月	744 (100%)	744 (100%)	744 (100%)	744 (100%)	*	744 (100%)	*	*
2015/ 9月	720 (100%)	720 (100%)	720 (100%)	720 (100%)	*	720 (100%)	*	*
2015/10月	744 (100%)	744 (100%)	744 (100%)	744 (100%)	*	744 (100%)	*	*
2015/11月	720 (100%)	720 (100%)	720 (100%)	720 (100%)	*	720 (100%)	*	*
2015/冬季	2160 (100%)	*	2160 (100%)	2160 (100%)	*	2160 (100%)	*	*
2015/春季	2208 (100%)	744 (33.7%)	2208 (100%)	2208 (100%)	*	2208 (100%)	*	*
2015/夏季	2208 (100%)	2208 (100%)	2208 (100%)	2208 (100%)	*	2208 (100%)	*	*
2015/秋季	2184 (100%)	2184 (100%)	2184 (100%)	2184 (100%)	*	2184 (100%)	*	*
2015/整年	8760 (100%)	5136 (58.6%)	8760 (100%)	8760 (100%)	*	8760 (100%)	*	*
起始年月	2014/12	2015/05	2014/12	2014/12	*	2014/12	*	*
結束年月	2015/11	2015/11	2015/11	2015/11	*	2015/11	*	*

Wind Speed in Chung-Yun Seas of TCW0 at 2015

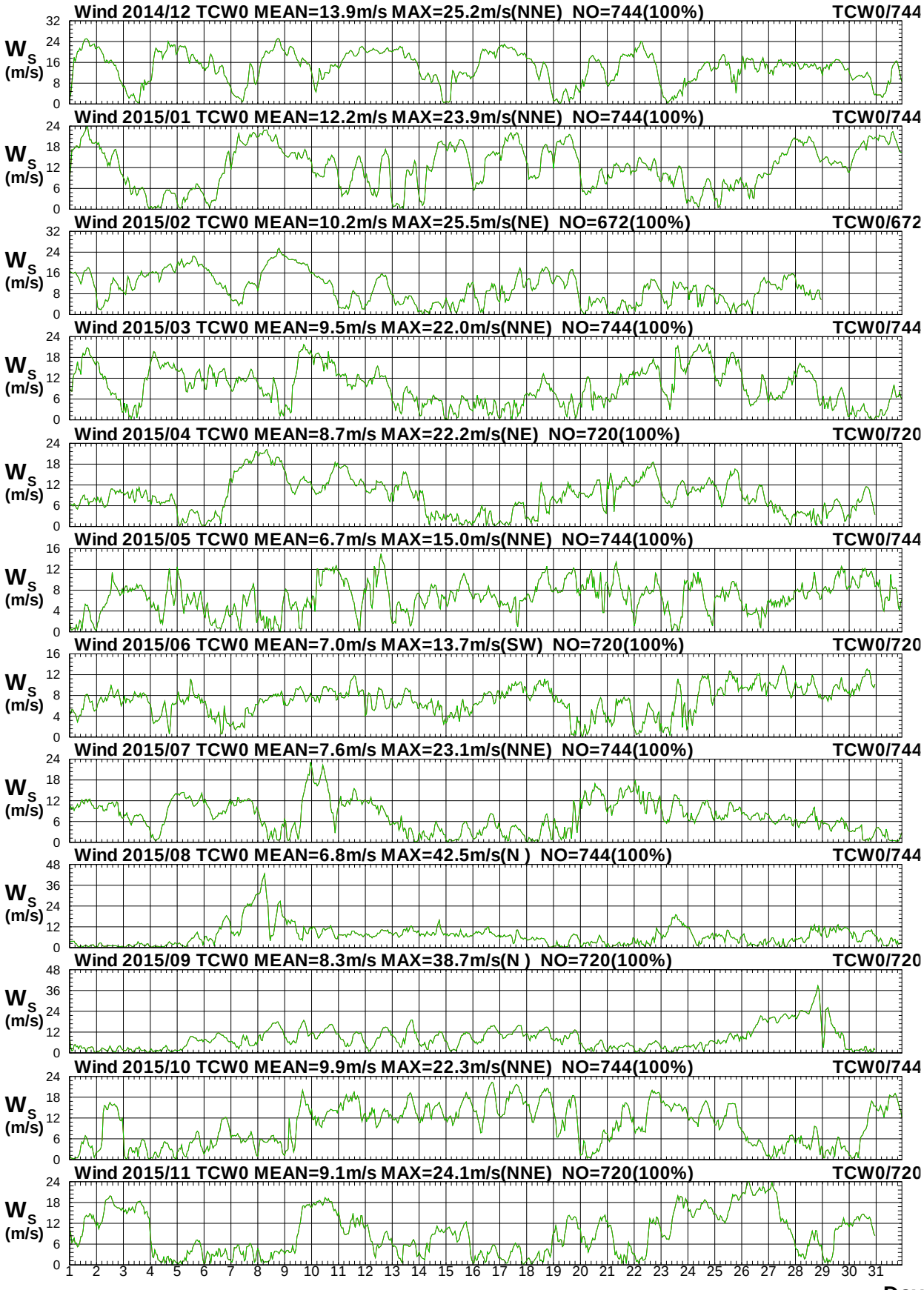

圖 9.1a　2015年每月中雲海域 W 站修補前後之風速比較圖

Wind Direction in Chung-Yun Seas of TCW0 at 2015

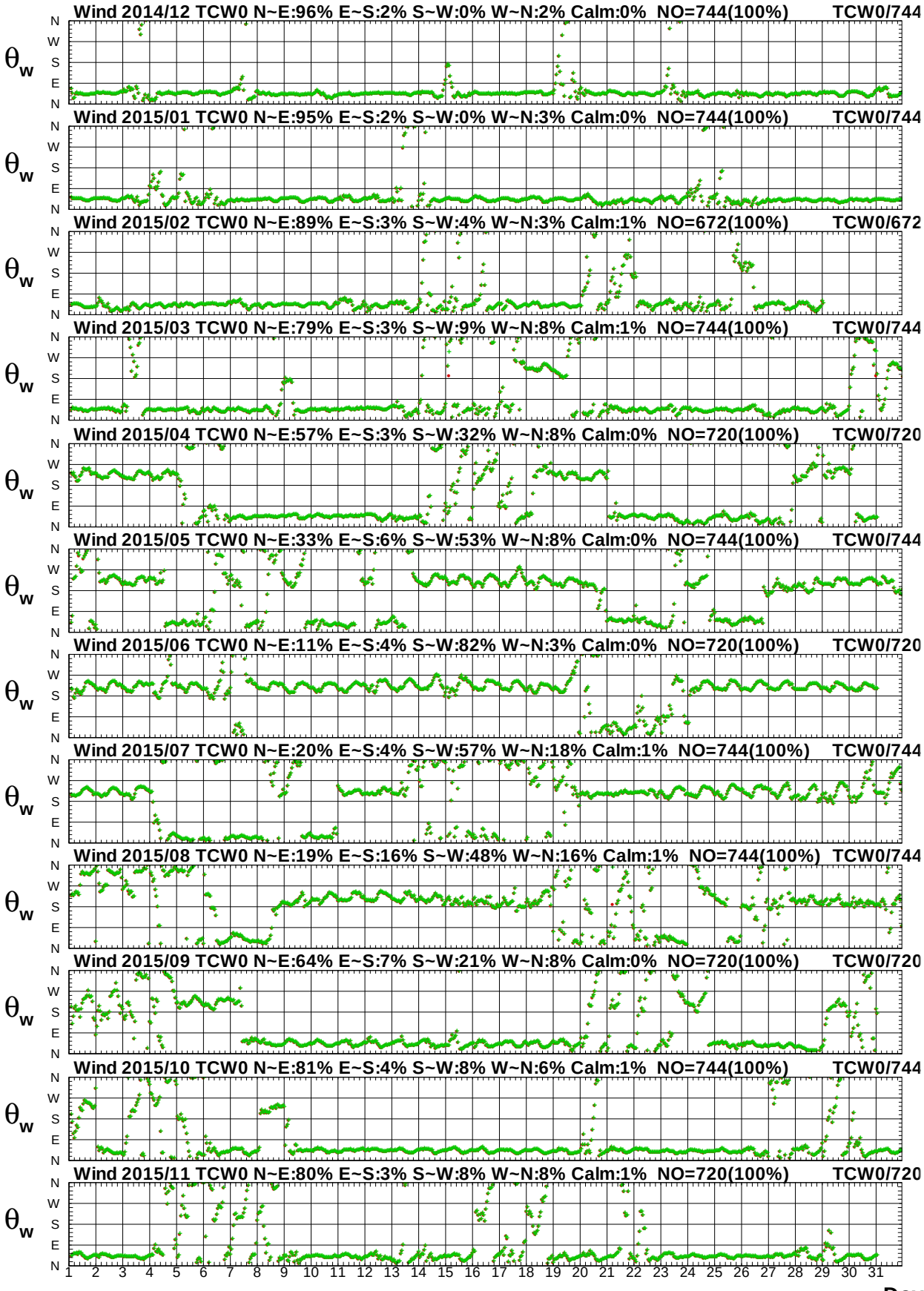

圖 9.1b　2015年每月中雲海域 W 站修補前後之風向比較圖

W14CTCW0.1HA W14CTCW0.1H0 W151TCW0.1HA W151TCW0.1H0 W152TCW0.1HA W152TCW0.1H0
W153TCW0.1HA W153TCW0.1H0 W154TCW0.1HA W154TCW0.1H0 W155TCW0.1HA W155TCW0.1H0

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Wind Speed in Chung-Yun Seas of TCW0 at 2015

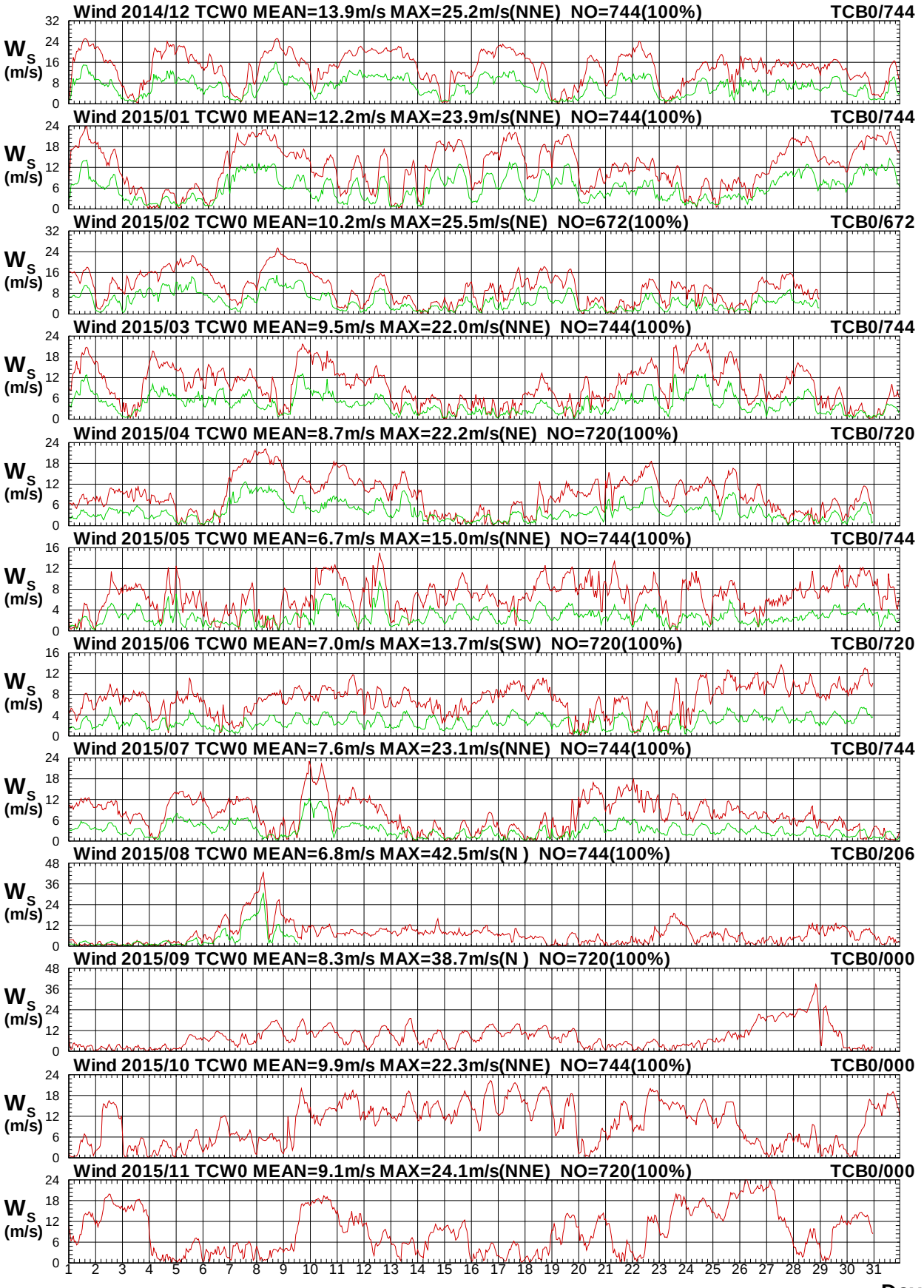

圖9.2a　2015年每月中雲海域 W 站與 B 站風速比較圖

W14CTCW0.1HA W14CTCB0.1H0 W151TCW0.1HA W151TCB0.1H0 W152TCW0.1HA W152TCB0.1H0
W153TCW0.1HA W153TCB0.1H0 W154TCW0.1HA W154TCB0.1H0 W155TCW0.1HA W155TCB0.1H0

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Wind Direction in Chung-Yun Seas of TCW0 at 2015

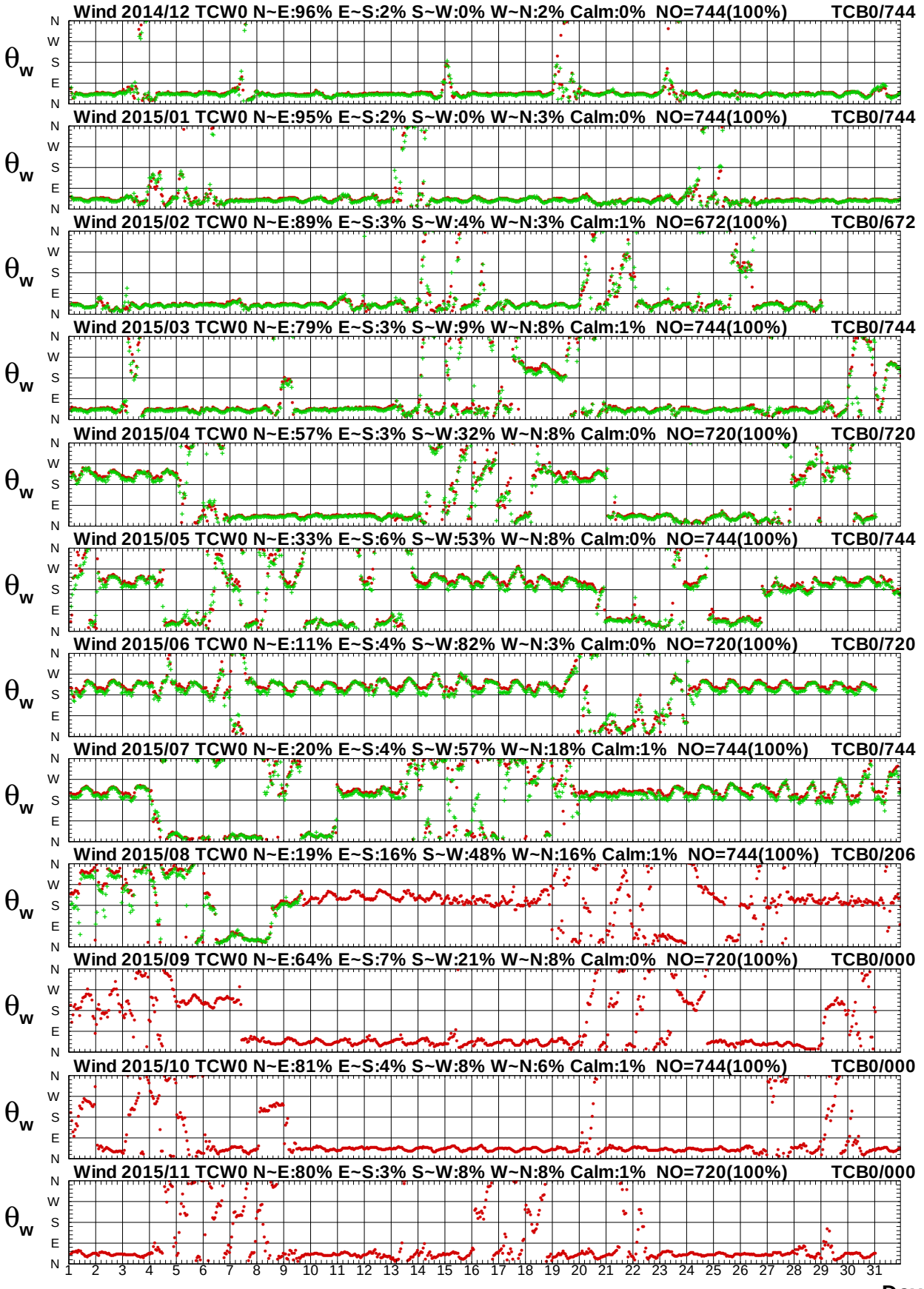

圖 9.2b　2015年每月中雲海域 W 站與 B 站風向比較圖

Wind Speed in Chung-Yun Seas of TCW0 at 2015

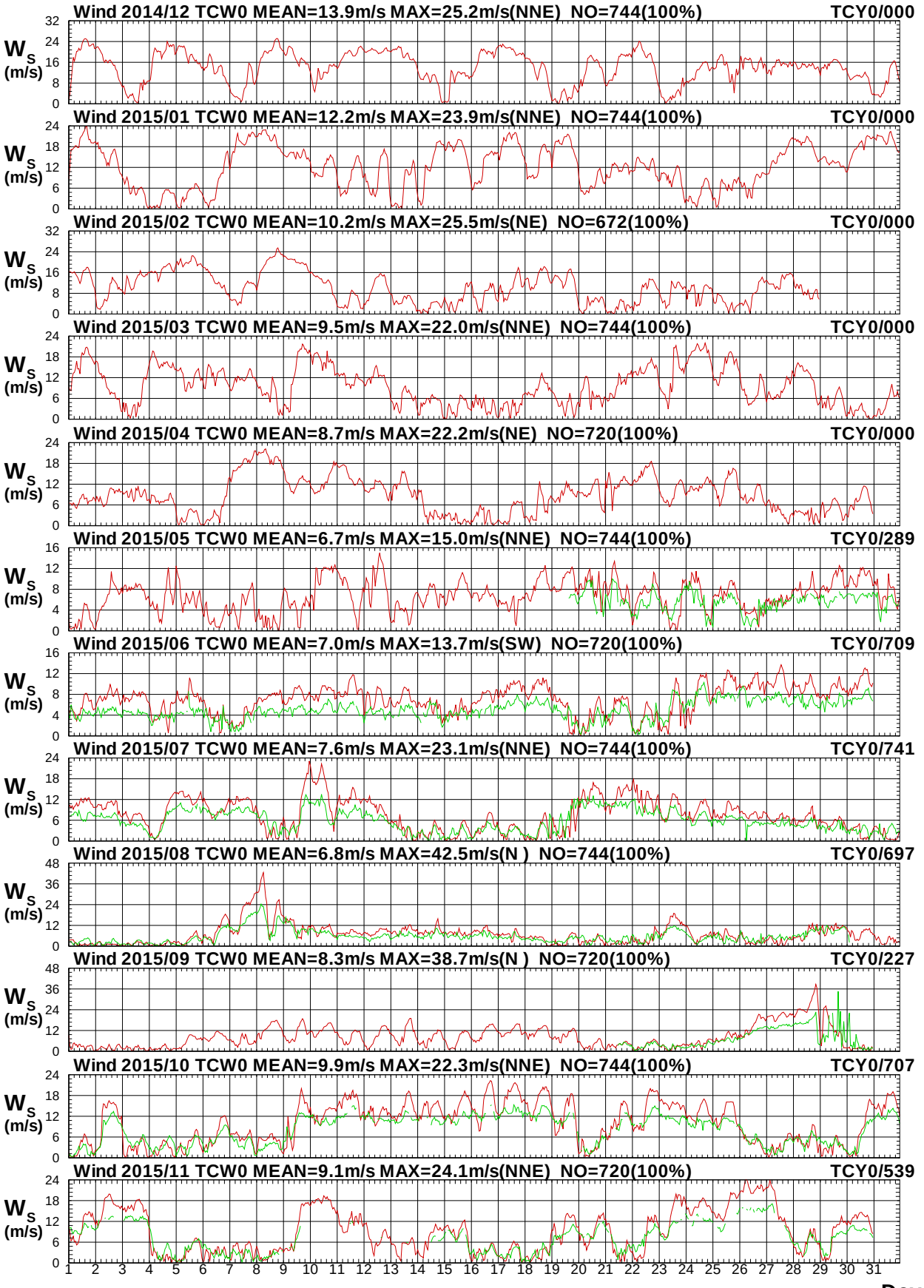

圖 9.3a　2015年每月中雲海域 W 站與 Y 站風速比較圖

Wind Direction in Chung-Yun Seas of TCW0 at 2015

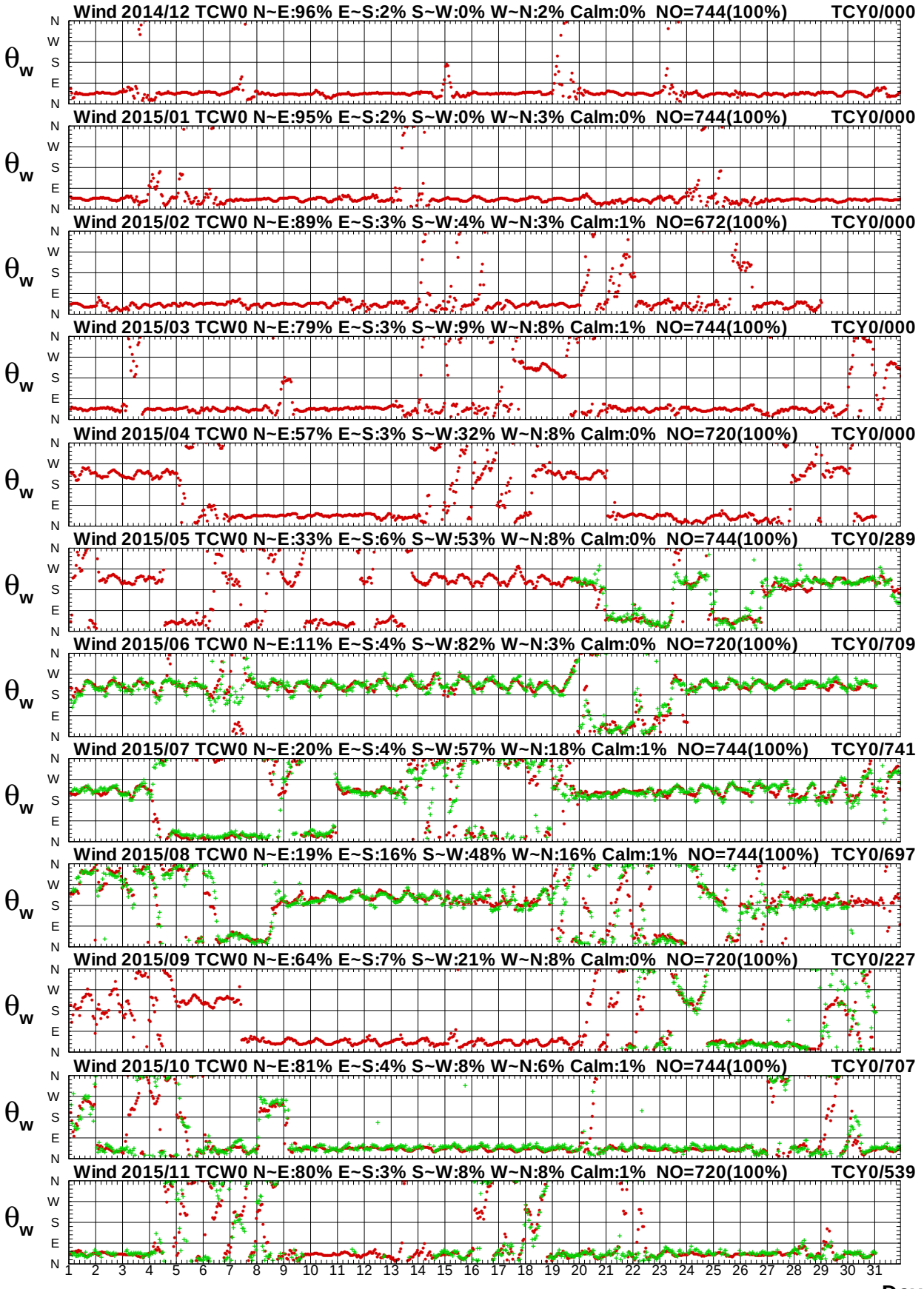

圖 9.3b　2015年每月中雲海域 W 站與 Y 站風向比較圖

Wind Speed in Chung-Yun Seas of TCW0 at 2015

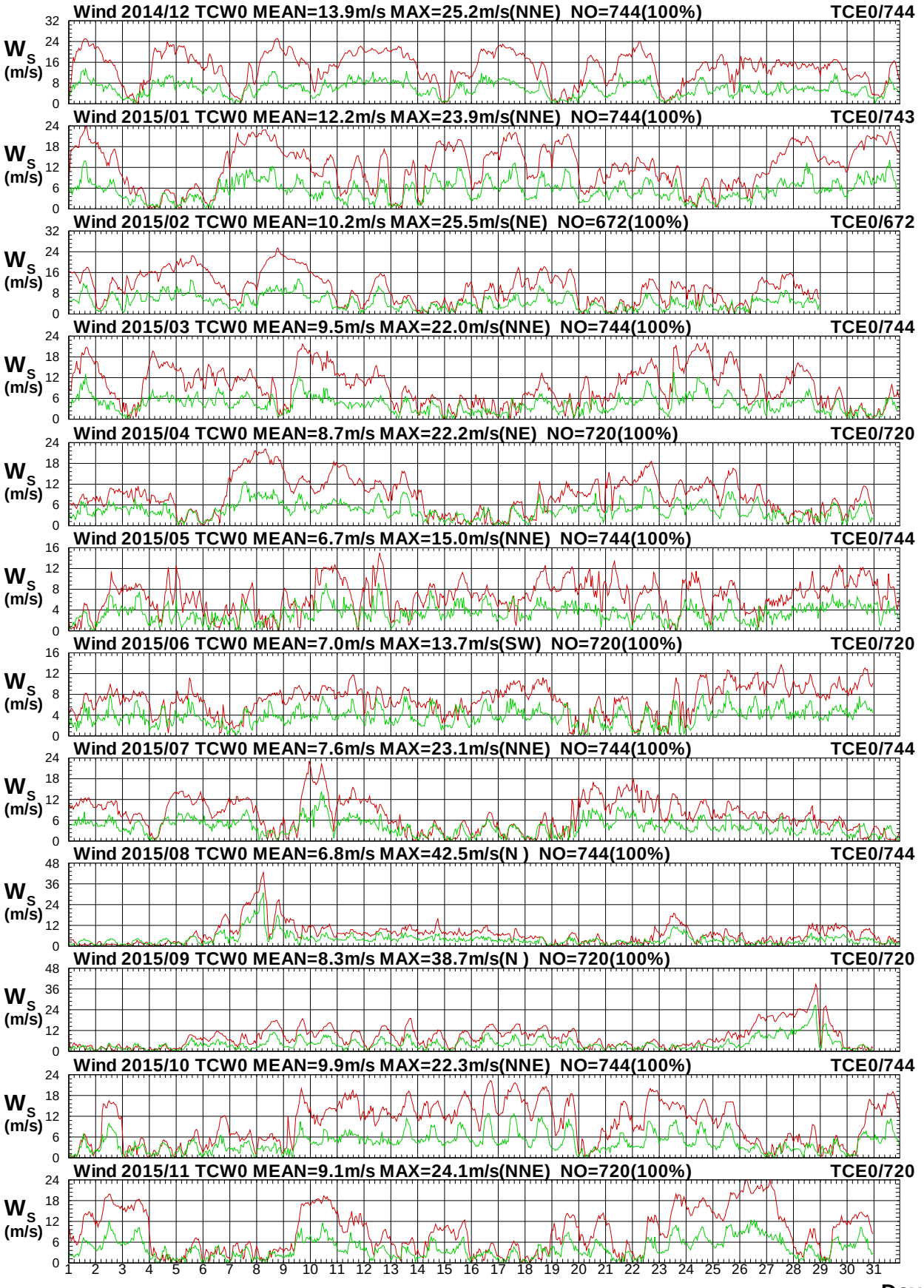

圖9.4a　2015年每月中雲海域 W 站與 E 站風速比較圖

W14CTCW0.1HA W14CTCE0.1H0 W151TCW0.1HA W151TCE0.1H0 W152TCW0.1HA W152TCE0.1H0
W153TCW0.1HA W153TCE0.1H0 W154TCW0.1HA W154TCE0.1H0 W155TCW0.1HA W155TCE0.1H0

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Wind Direction in Chung-Yun Seas of TCW0 at 2015

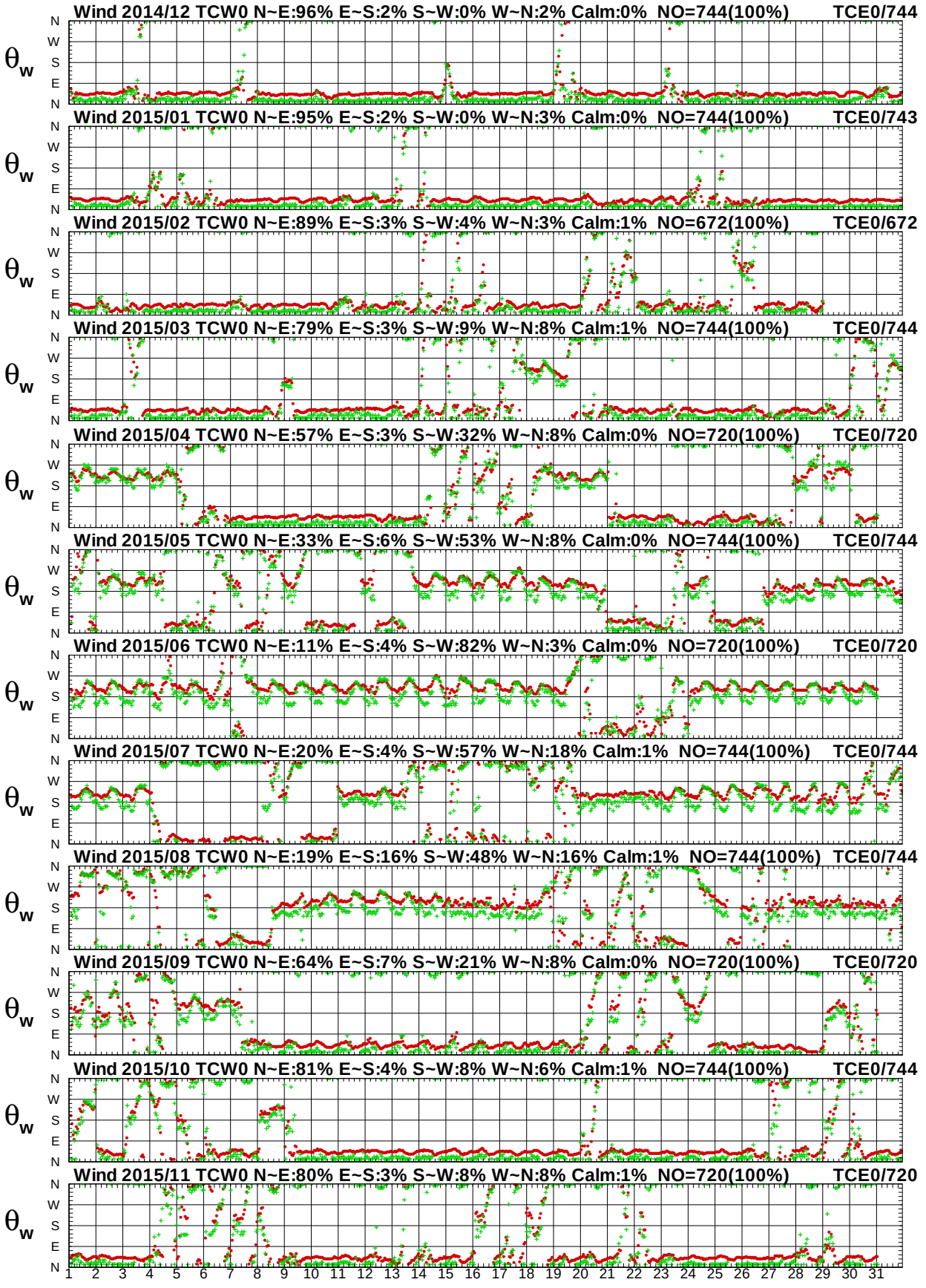

圖 9.4b　2015年每月中雲海域 W 站與 E 站風向比較圖

W14CTCW0.1HA W14CTCE0.1H0 W151TCW0.1HA W151TCE0.1H0 W152TCW0.1HA W152TCE0.1H0
W153TCW0.1HA W153TCE0.1H0 W154TCW0.1HA W154TCE0.1H0 W155TCW0.1HA W155TCE0.1H0

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Wind Speed in Chung-Yun Seas of TCW0 at 2015

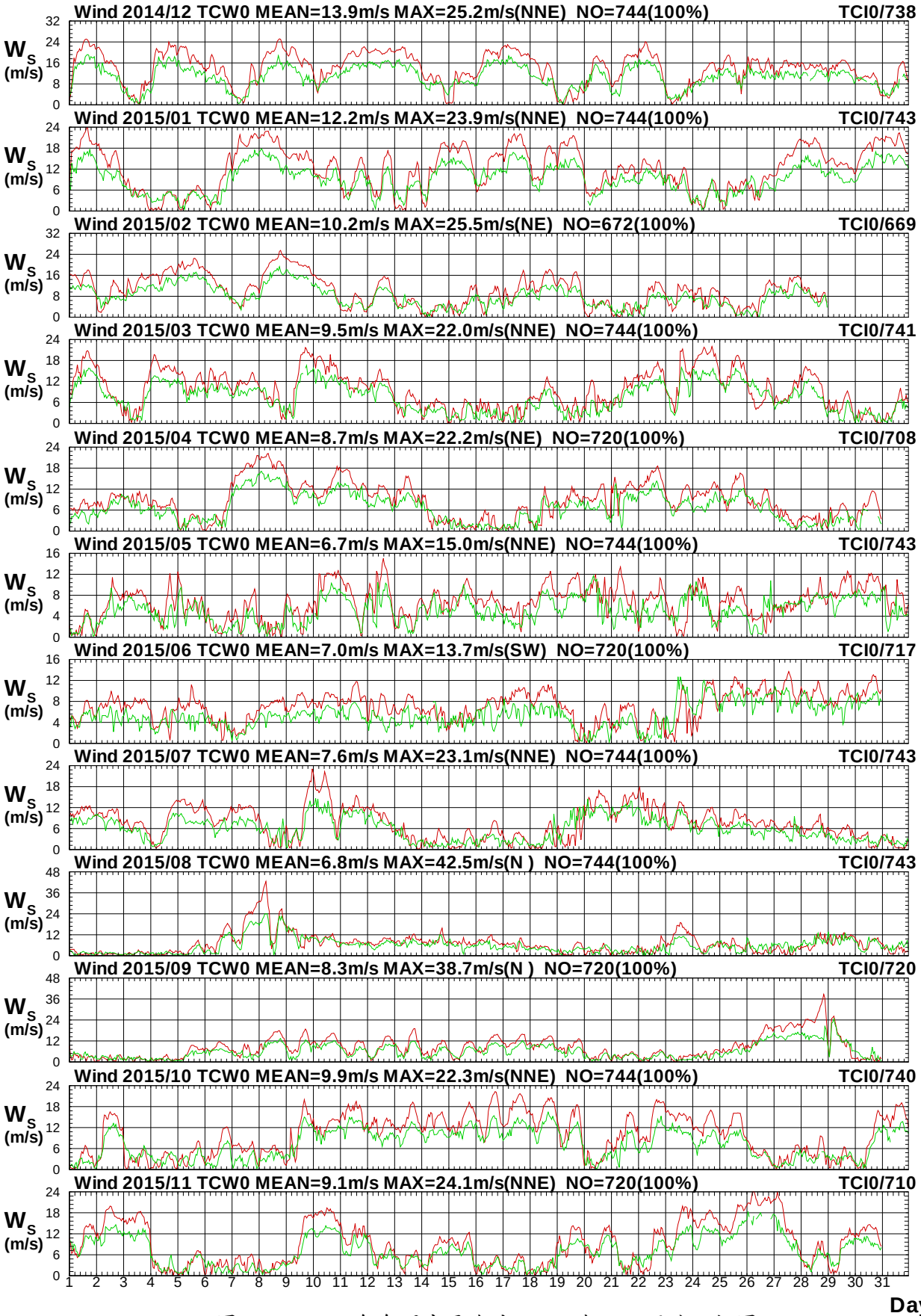

圖 9.5a　2015年每月中雲海域 W 站與 I 站風速比較圖

W14CTCW0.1HA W14CTCI0.1H0 W151TCW0.1HA W151TCI0.1H0 W152TCW0.1HA W152TCI0.1H0
W153TCW0.1HA W153TCI0.1H0 W154TCW0.1HA W154TCI0.1H0 W155TCW0.1HA W155TCI0.1H0

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Wind Direction in Chung-Yun Seas of TCW0 at 2015

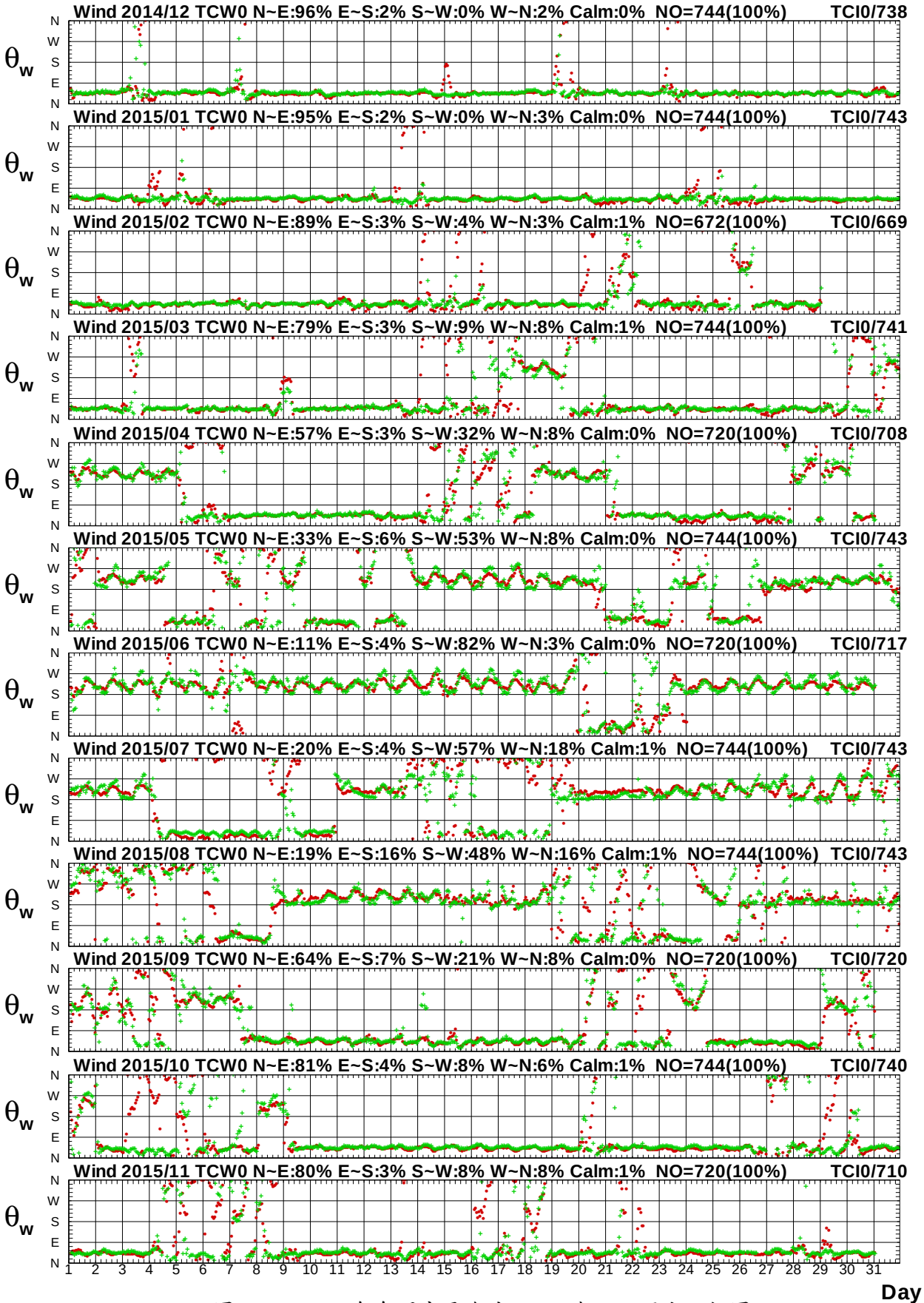

圖 9.5b　2015年每月中雲海域 W 站與 I 站風向比較圖

W14CTCW0.1HA W14CTCI0.1H0 W151TCW0.1HA W151TCI0.1H0 W152TCW0.1HA W152TCI0.1H0
W153TCW0.1HA W153TCI0.1H0 W154TCW0.1HA W154TCI0.1H0 W155TCW0.1HA W155TCI0.1H0

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Wind Speed in Chung-Yun Seas of TCW0 at 2015

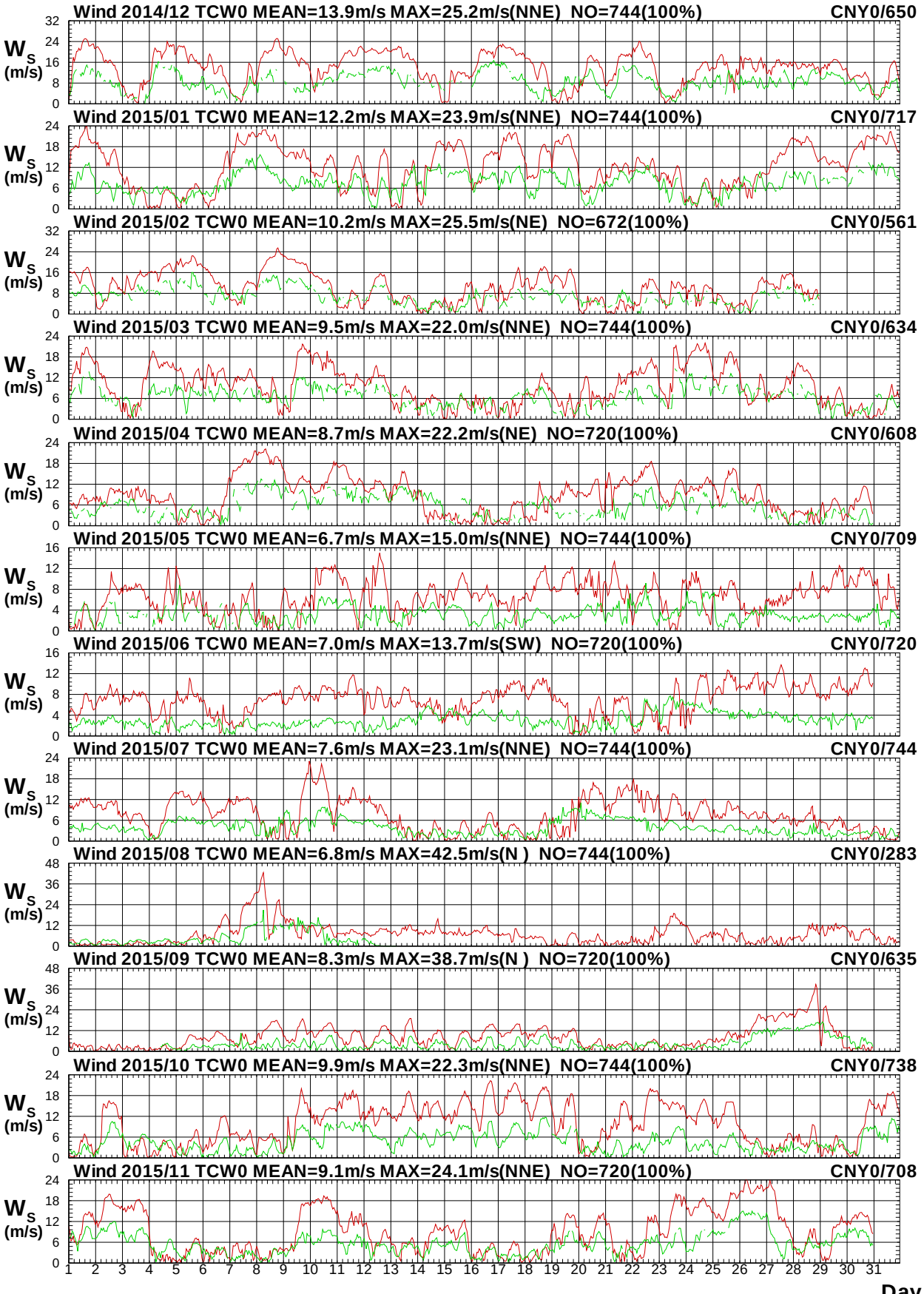

圖9.6a　2015年每月中雲海域 W 站與嘉南海域 Y 站風速圖

W14CTCW0.1HA W14CCNY0.1H0 W151TCW0.1HA W151CNY0.1H0 W152TCW0.1HA W152CNY0.1H0
W153TCW0.1HA W153CNY0.1H0 W154TCW0.1HA W154CNY0.1H0 W155TCW0.1HA W155CNY0.1H0

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Wind Direction in Chung-Yun Seas of TCW0 at 2015

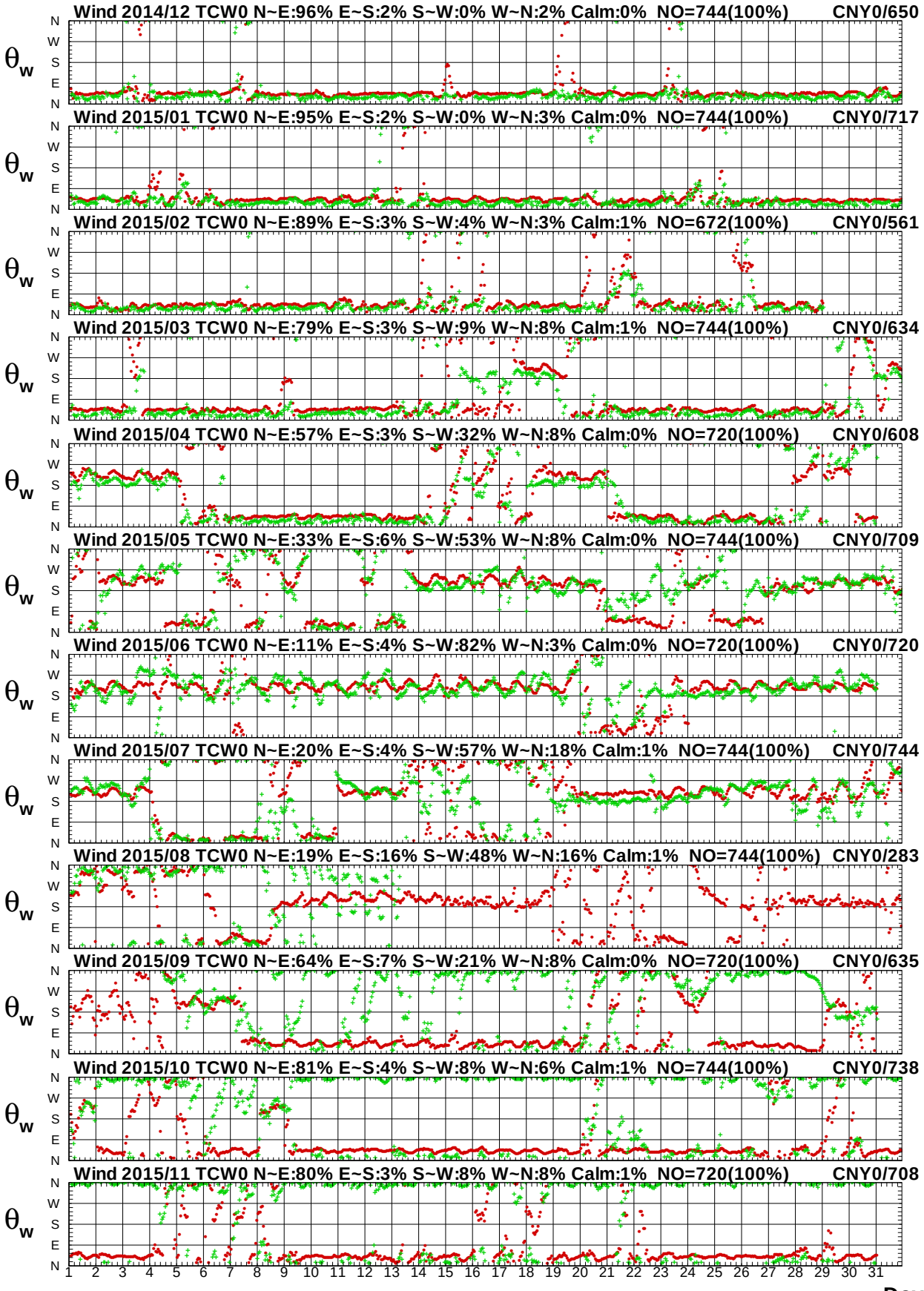

圖9.6b　2015年每月中雲海域 W 站與嘉南海域 Y 站風向圖

Wind Speed in Chung-Yun Seas of TCW0 at 2015

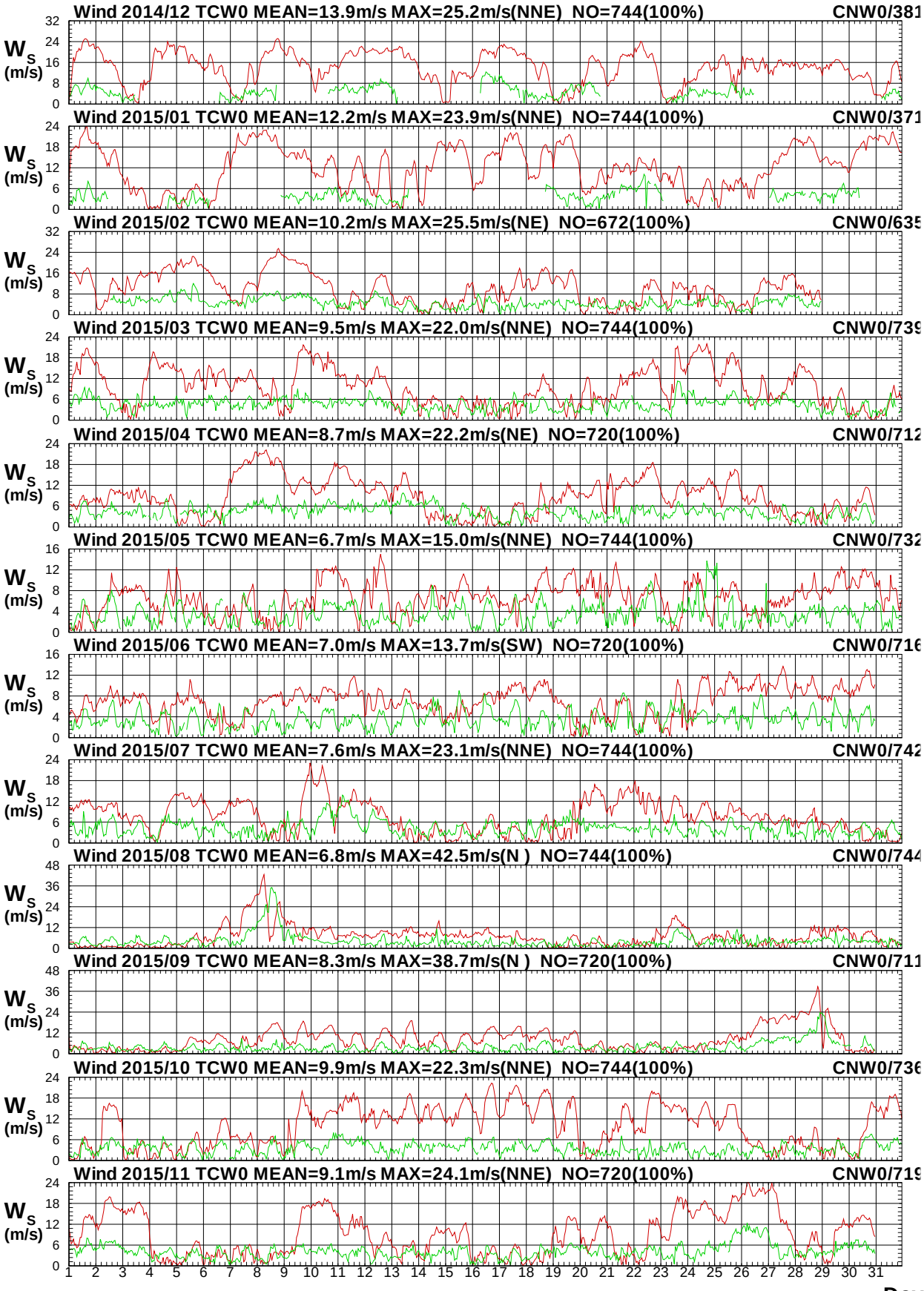

圖 9.7a　2015年每月中雲海域 W 站與嘉南海域 W 站風速圖

Wind Direction in Chung-Yun Seas of TCW0 at 2015

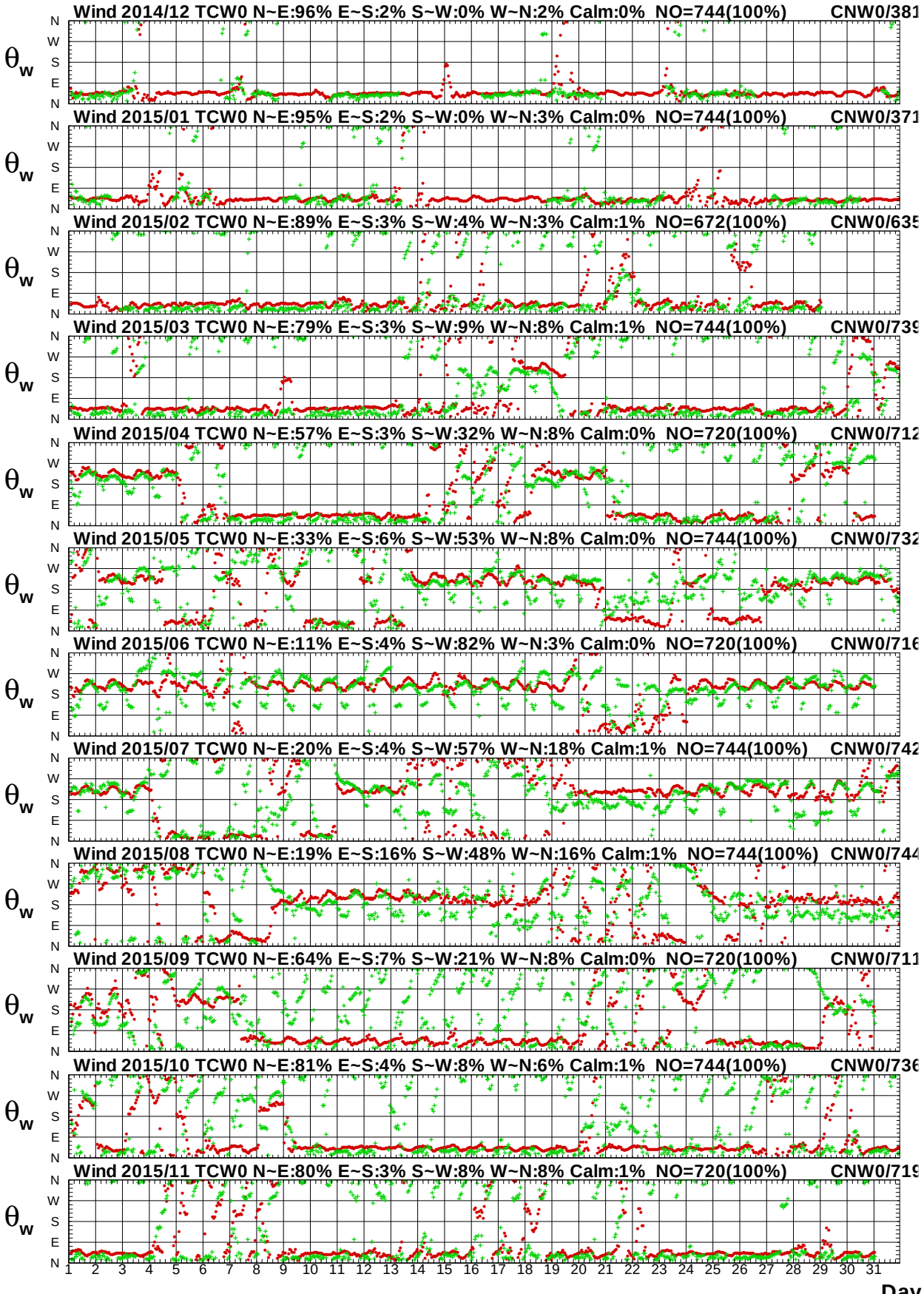

圖 9.7b　2015年每月中雲海域 W 站與嘉南海域 W 站風向圖

W14CTCW0.1HA W14CCNW0.1H0 W151TCW0.1HA W151CNW0.1H0 W152TCW0.1HA W152CNW0.1H0
W153TCW0.1HA W153CNW0.1H0 W154TCW0.1HA W154CNW0.1H0 W155TCW0.1HA W155CNW0.1H0

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Wind Speed in Chung-Yun Seas of TCW0 at 2015

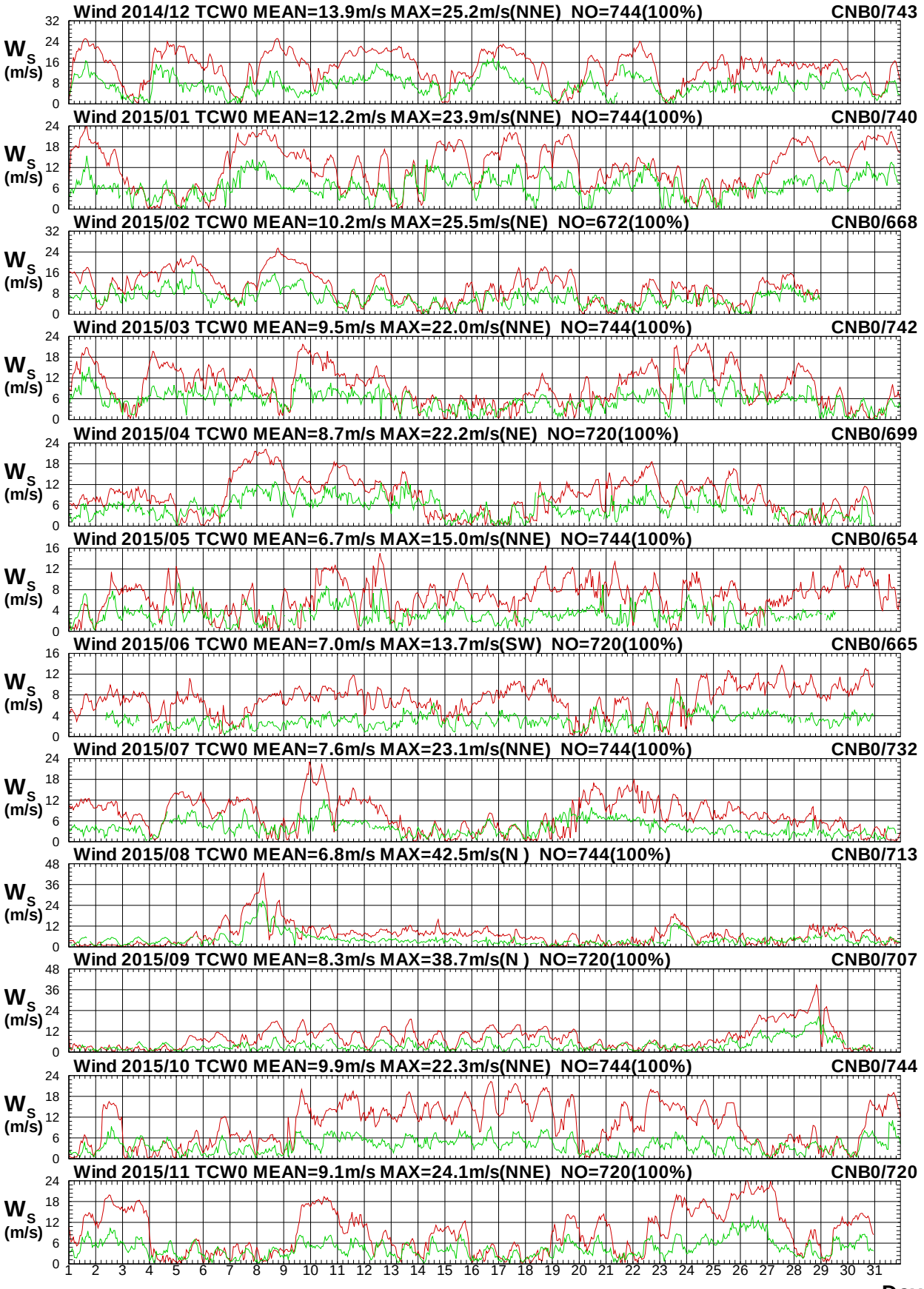

圖9.8a　2015年每月中雲海域 W 站與嘉南海域 B 站風速圖

Wind Direction in Chung-Yun Seas of TCW0 at 2015

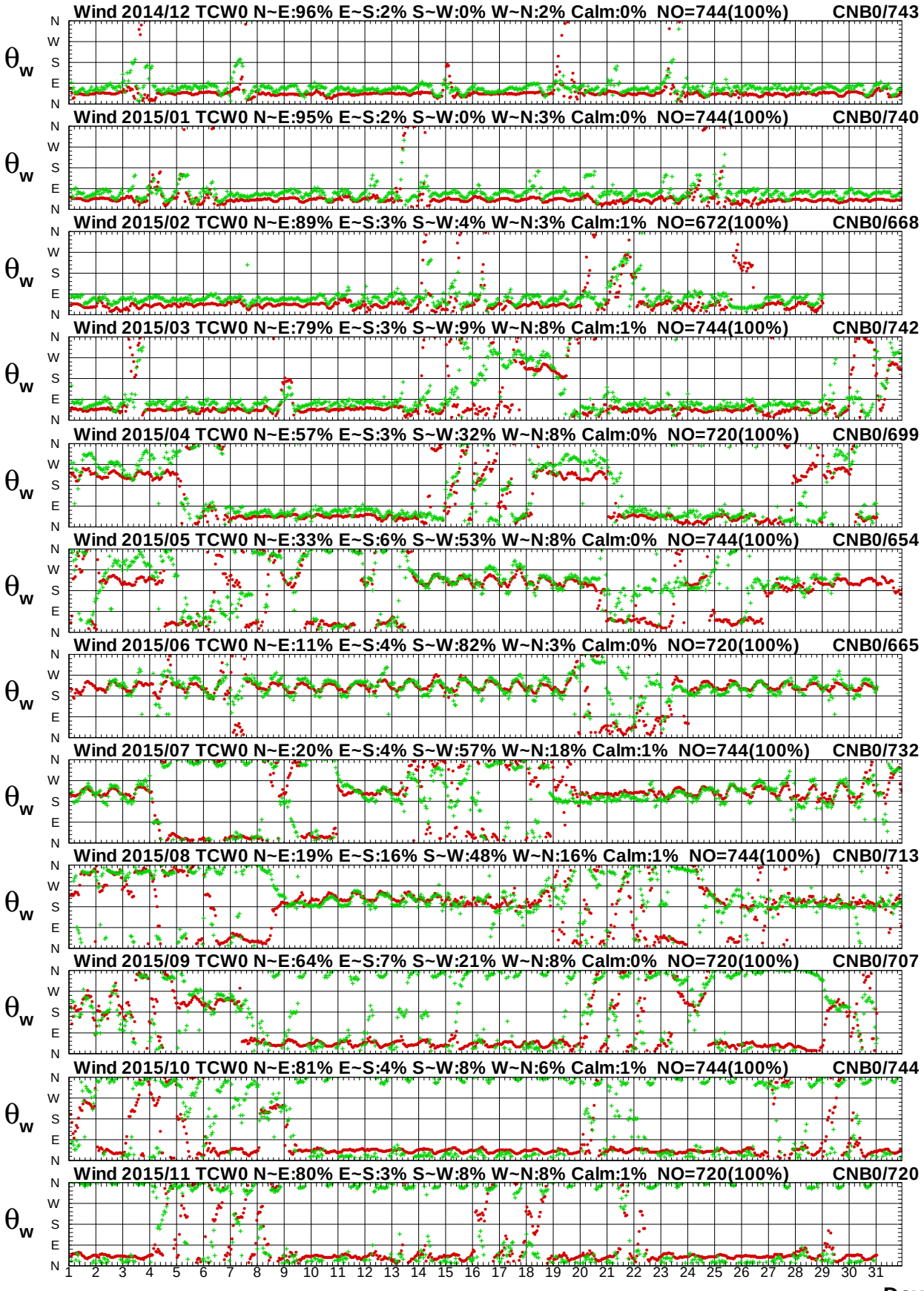

圖9.8b　2015年每月中雲海域 W 站與嘉南海域 B 站風向圖

Wind Speed in Chung-Yun Seas of TCW0 at 2015

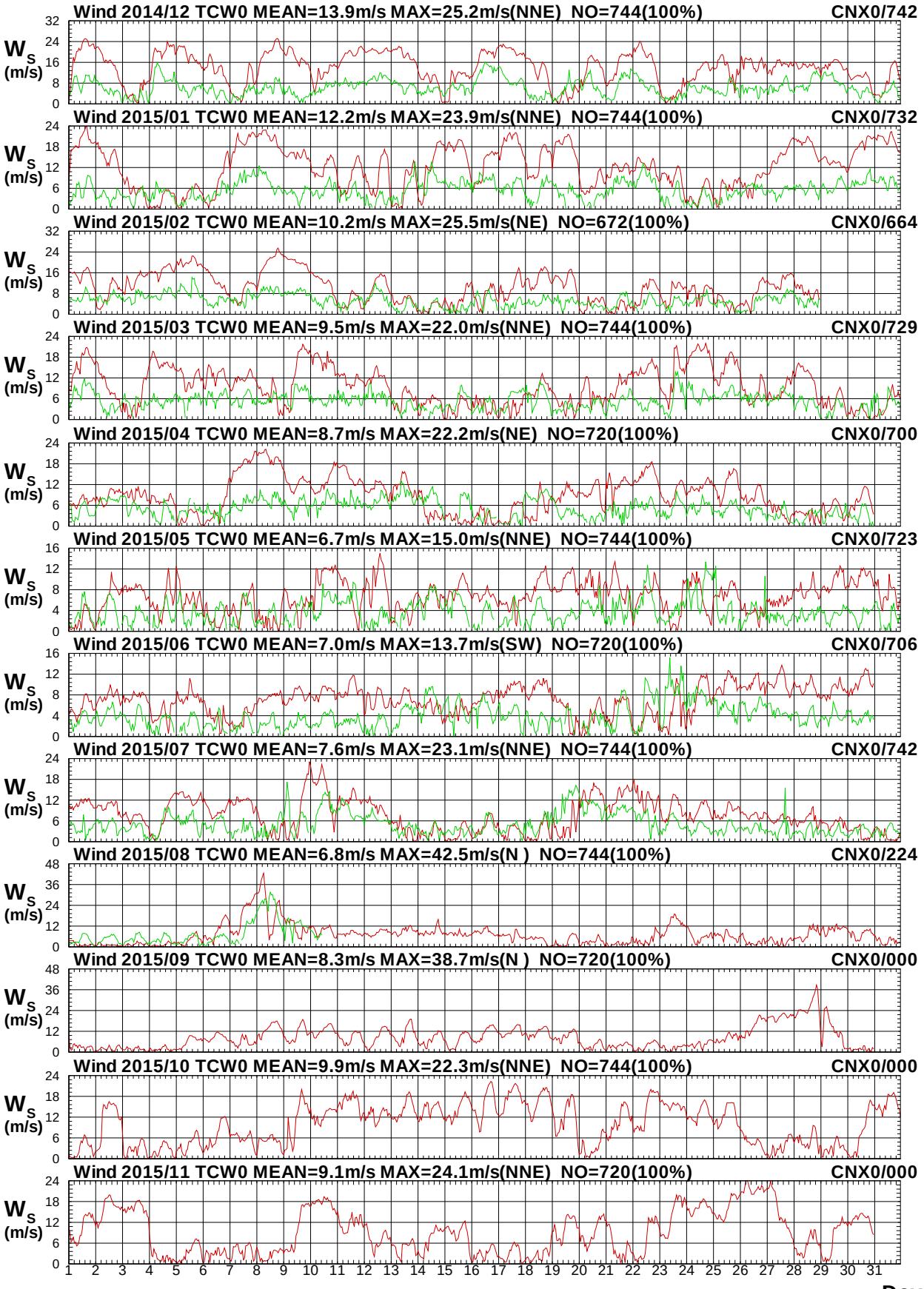

圖9.9a　2015年每月中雲海域 W 站與嘉南海域 X 站風速圖

W14CTCW0.1HA W14CCNX0.1H0 W151TCW0.1HA W151CNX0.1H0 W152TCW0.1HA W152CNX0.1H0
W153TCW0.1HA W153CNX0.1H0 W154TCW0.1HA W154CNX0.1H0 W155TCW0.1HA W155CNX0.1H0

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Wind Direction in Chung-Yun Seas of TCW0 at 2015

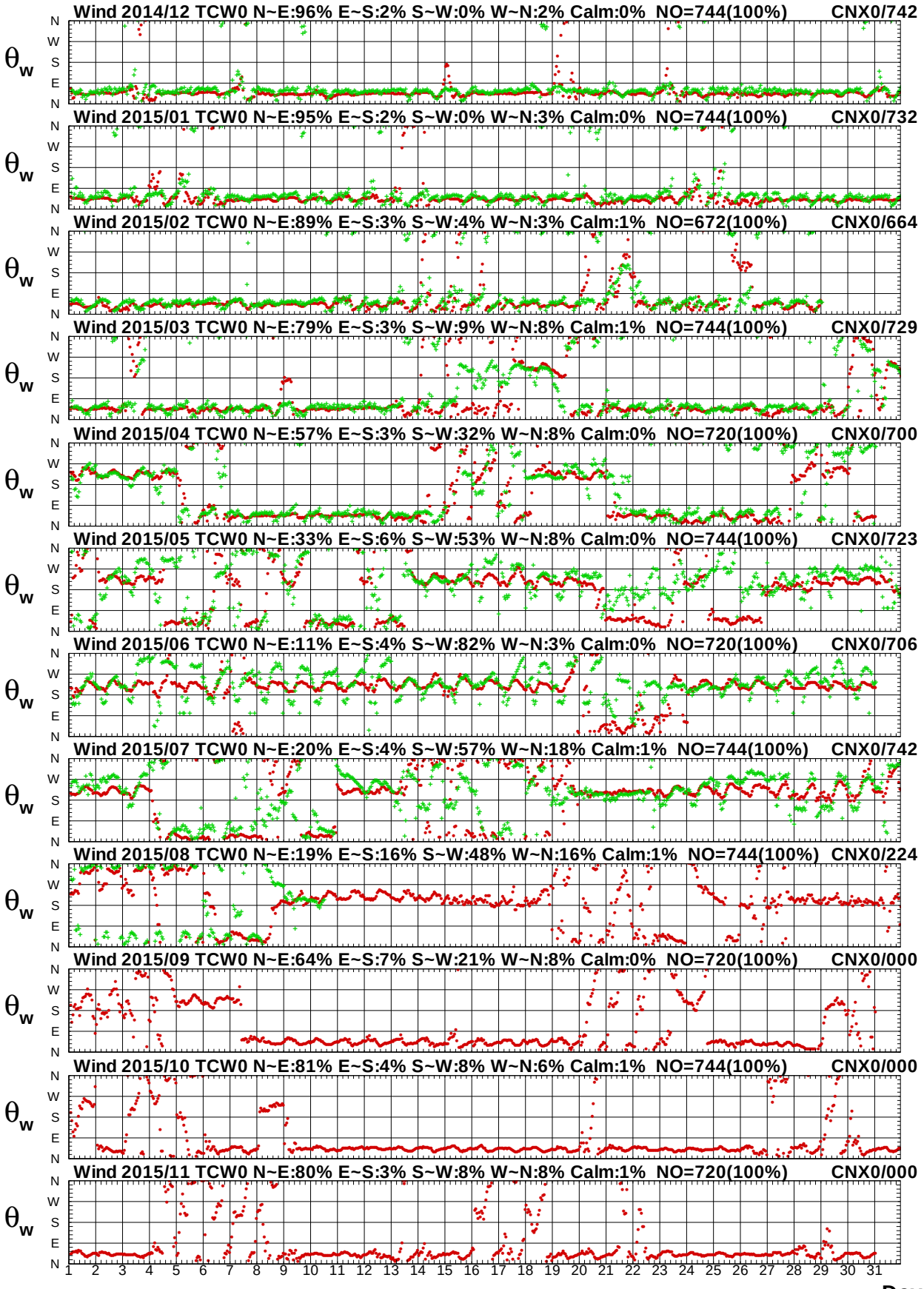

圖9.9b　2015年每月中雲海域 W 站與嘉南海域 X 站風向圖

Wind Speed in Chung-Yun Seas of TCW0 at 2015

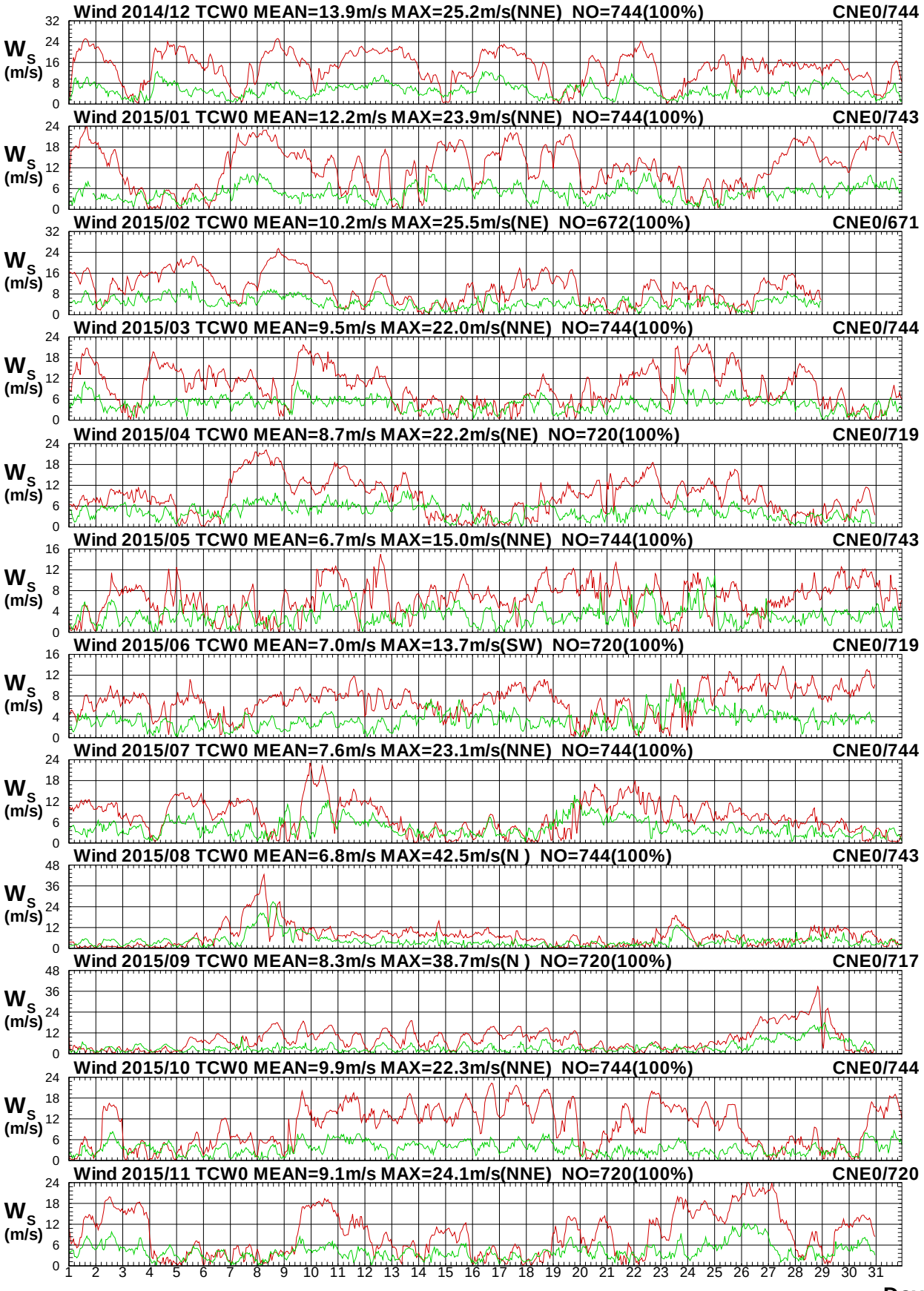

圖 9.10a　2015年每月中雲海域 W 站與嘉南海域 E 站風速圖

W14CTCW0.1HA W14CCNE0.1H0 W151TCW0.1HA W151CNE0.1H0 W152TCW0.1HA W152CNE0.1H0
W153TCW0.1HA W153CNE0.1H0 W154TCW0.1HA W154CNE0.1H0 W155TCW0.1HA W155CNE0.1H0

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Wind Direction in Chung-Yun Seas of TCW0 at 2015

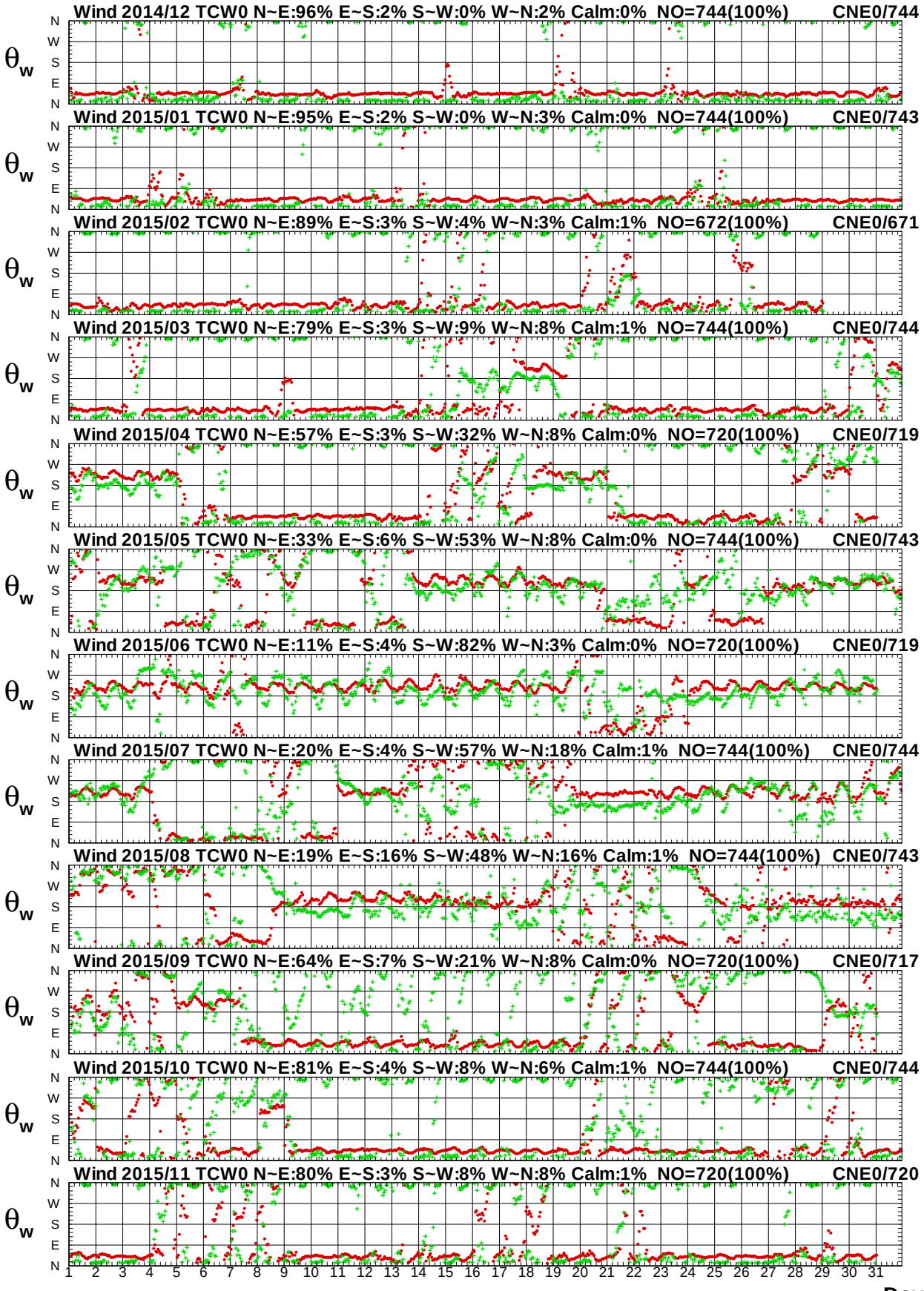

圖 9.10b　2015年每月中雲海域 W 站與嘉南海域 E 站風向圖

Wind Speed in Chung-Yun Seas of TCW0 at 2015

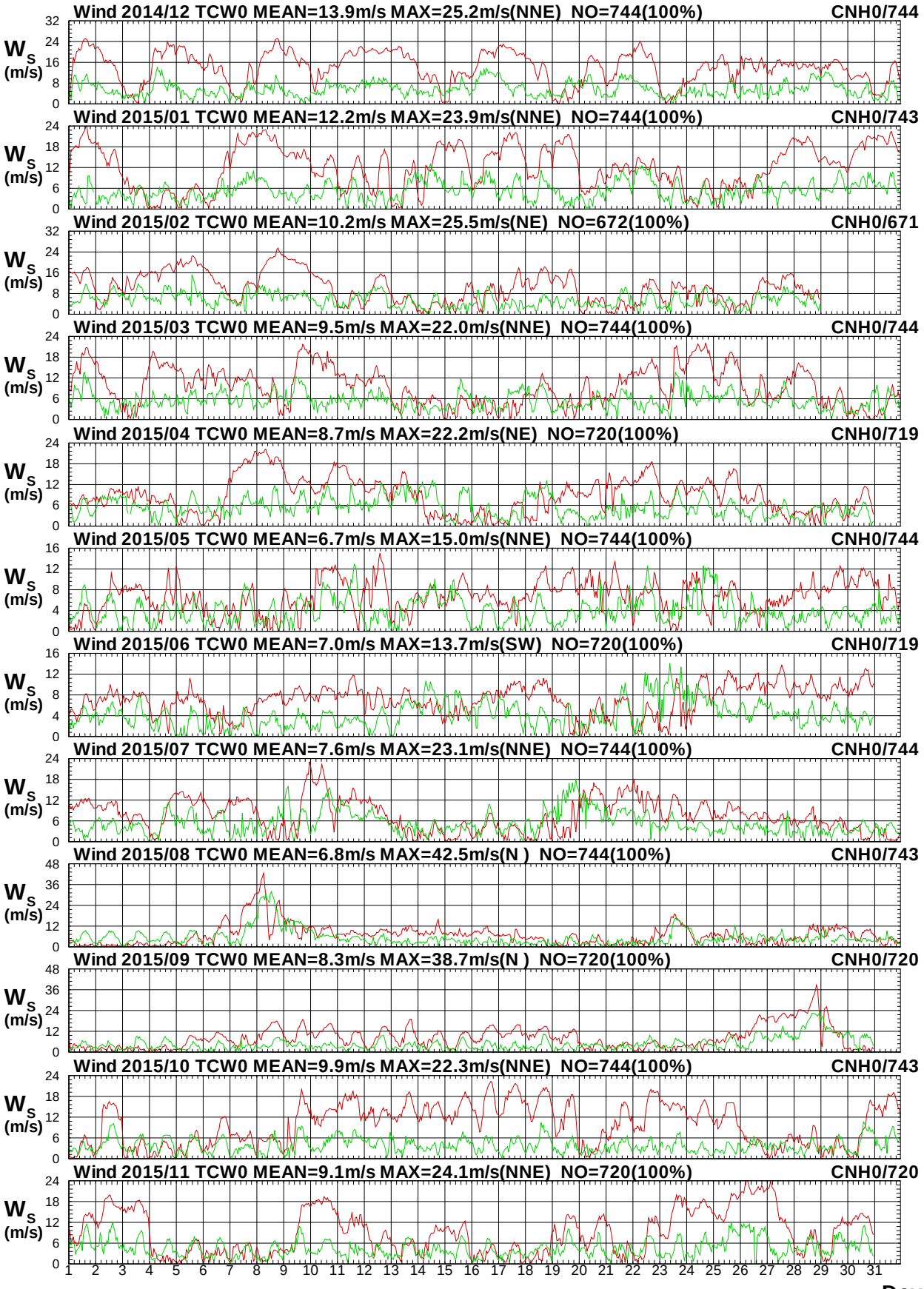

圖 9.11a　2015年每月中雲海域 W 站與嘉南海域 H 站風速圖

W14CTCW0.1HA W14CCNH0.1H0 W151TCW0.1HA W151CNH0.1H0 W152TCW0.1HA W152CNH0.1H0
W153TCW0.1HA W153CNH0.1H0 W154TCW0.1HA W154CNH0.1H0 W155TCW0.1HA W155CNH0.1H0

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Wind Direction in Chung-Yun Seas of TCW0 at 2015

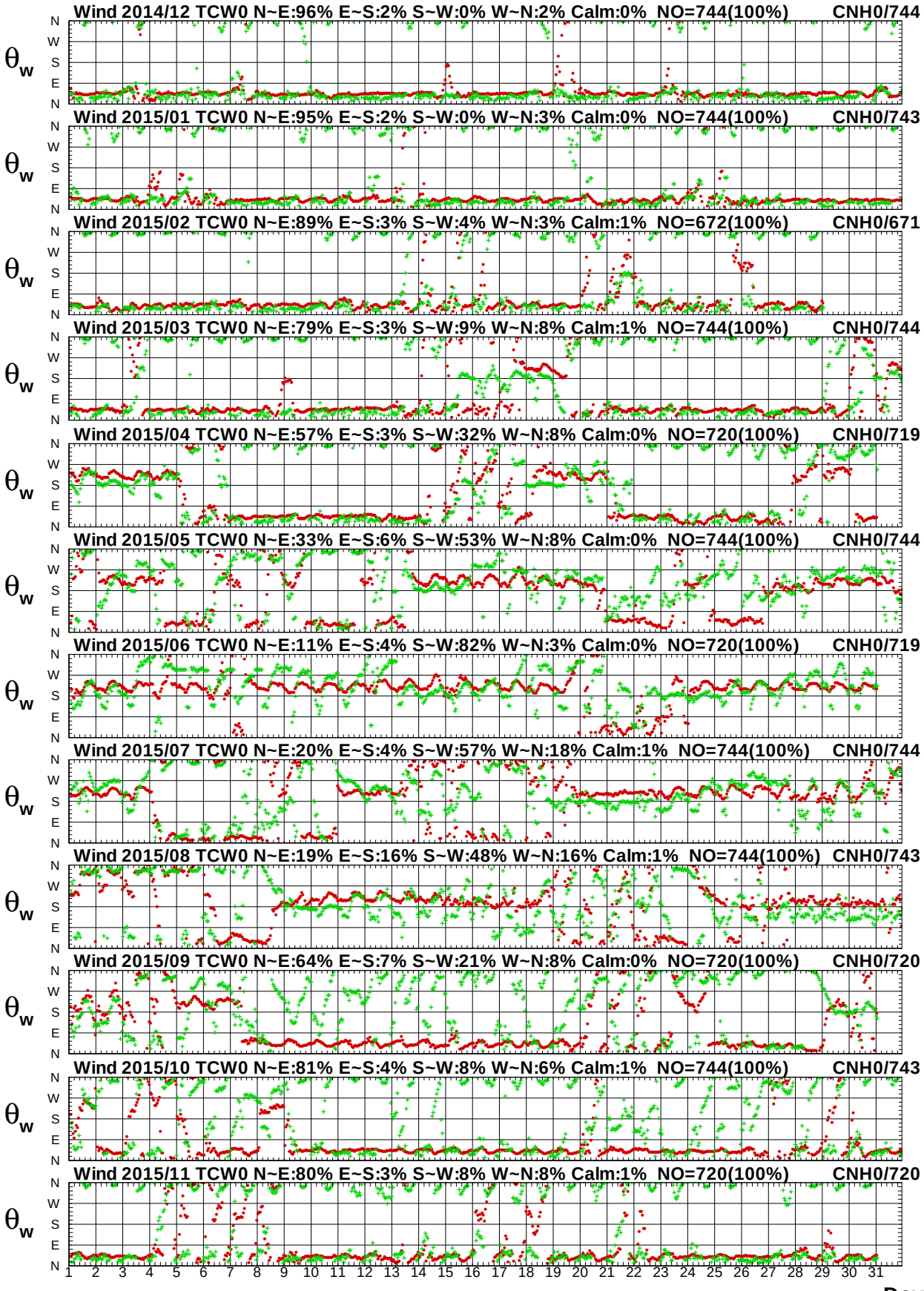

圖 9.11b　2015年每月中雲海域 W 站與嘉南海域 H 站風向圖

W14CTCW0.1HA W14CCNH0.1H0 W151TCW0.1HA W151CNH0.1H0 W152TCW0.1HA W152CNH0.1H0
W153TCW0.1HA W153CNH0.1H0 W154TCW0.1HA W154CNH0.1H0 W155TCW0.1HA W155CNH0.1H0

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Wind Speed in Chung-Yun Seas of TCW0 at 2015

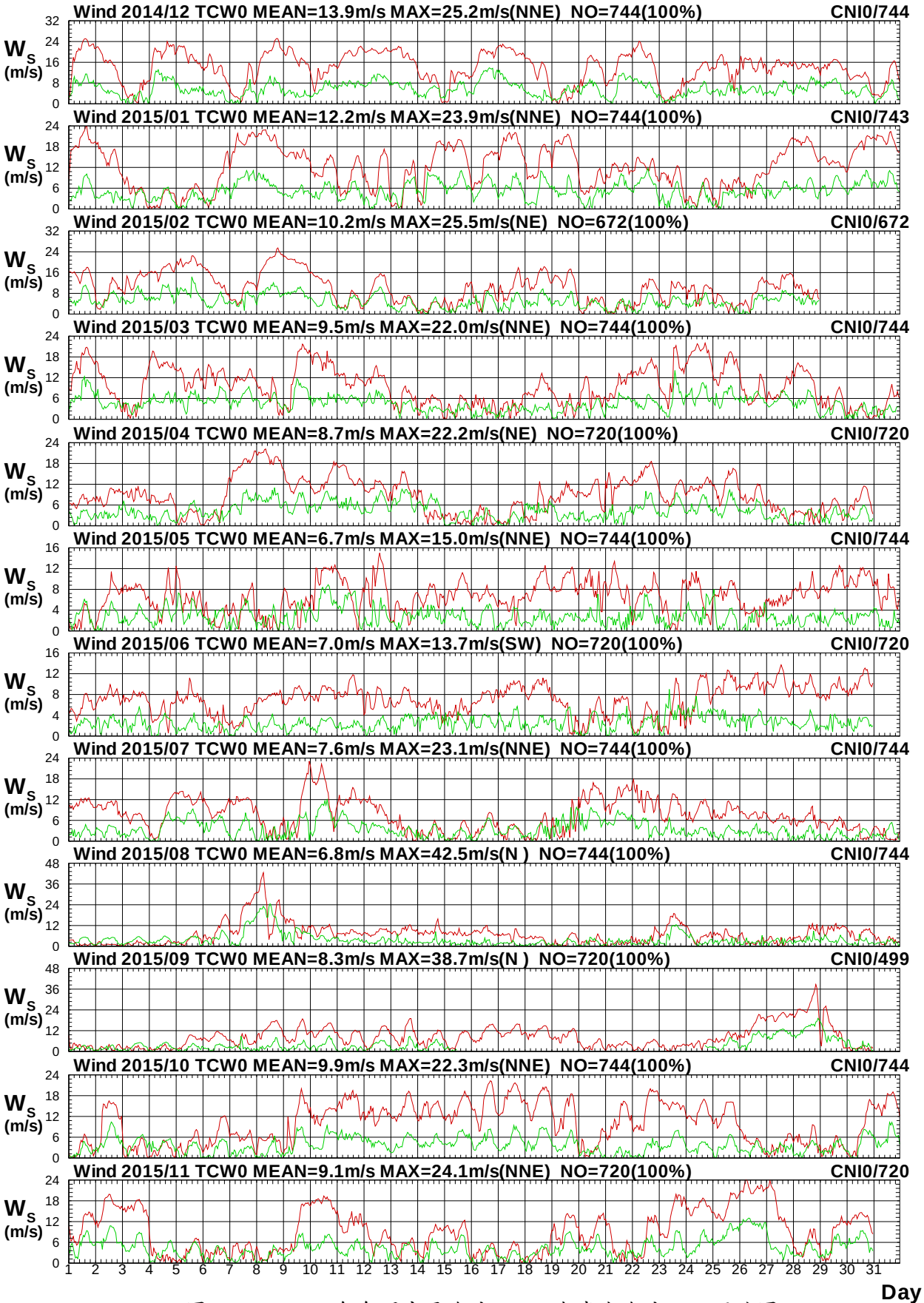

圖 9.12a　2015年每月中雲海域 W 站與嘉南海域 I 站風速圖

W14CTCW0.1HA W14CCNI0.1H0 W151TCW0.1HA W151CNI0.1H0 W152TCW0.1HA W152CNI0.1H0
W153TCW0.1HA W153CNI0.1H0 W154TCW0.1HA W154CNI0.1H0 W155TCW0.1HA W155CNI0.1H0

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Wind Direction in Chung-Yun Seas of TCW0 at 2015

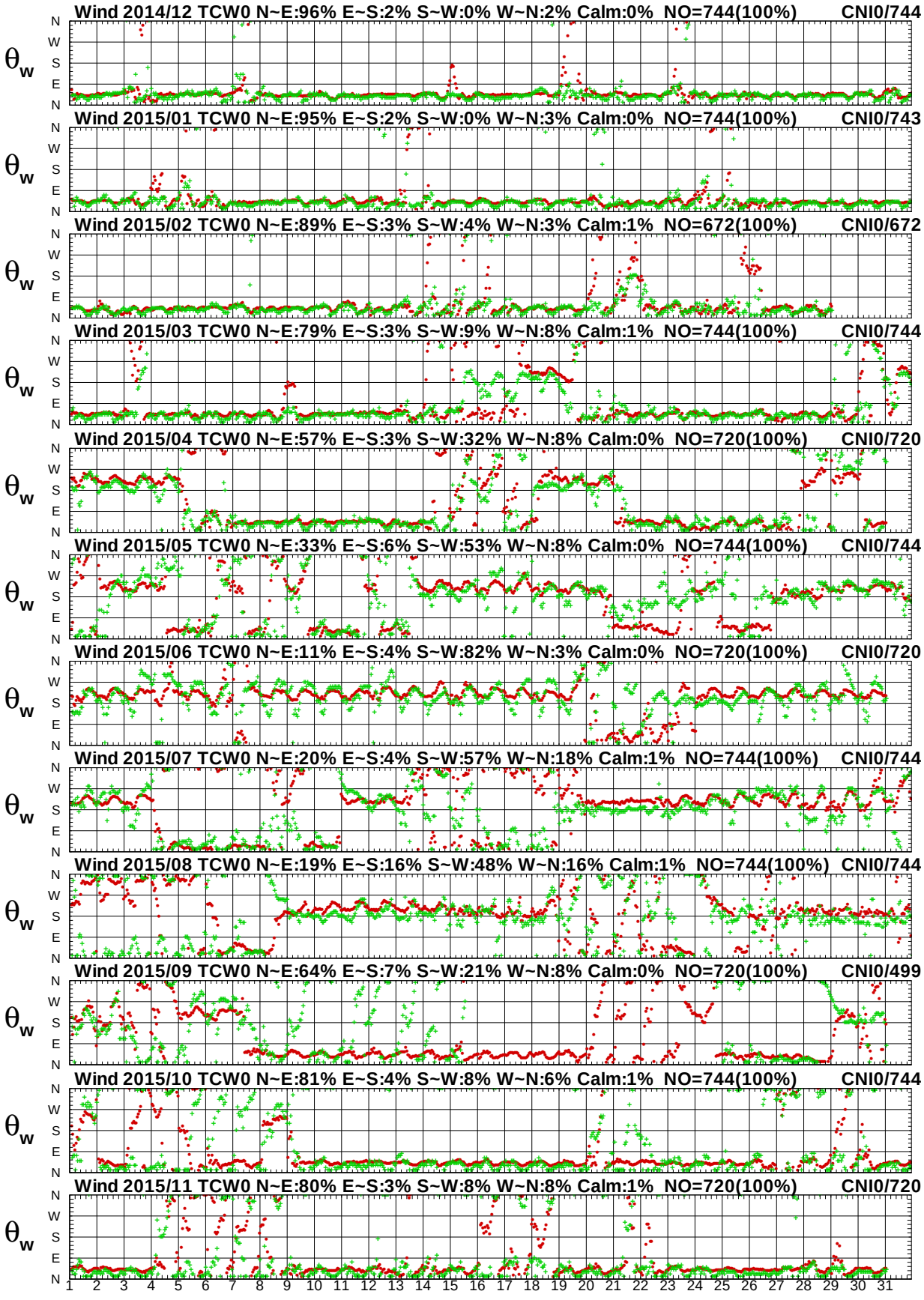

圖9.12b　2015年每月中雲海域 W 站與嘉南海域 I 站風向圖

Wind Speed in Chung-Yun Seas of TCW0 at 2015

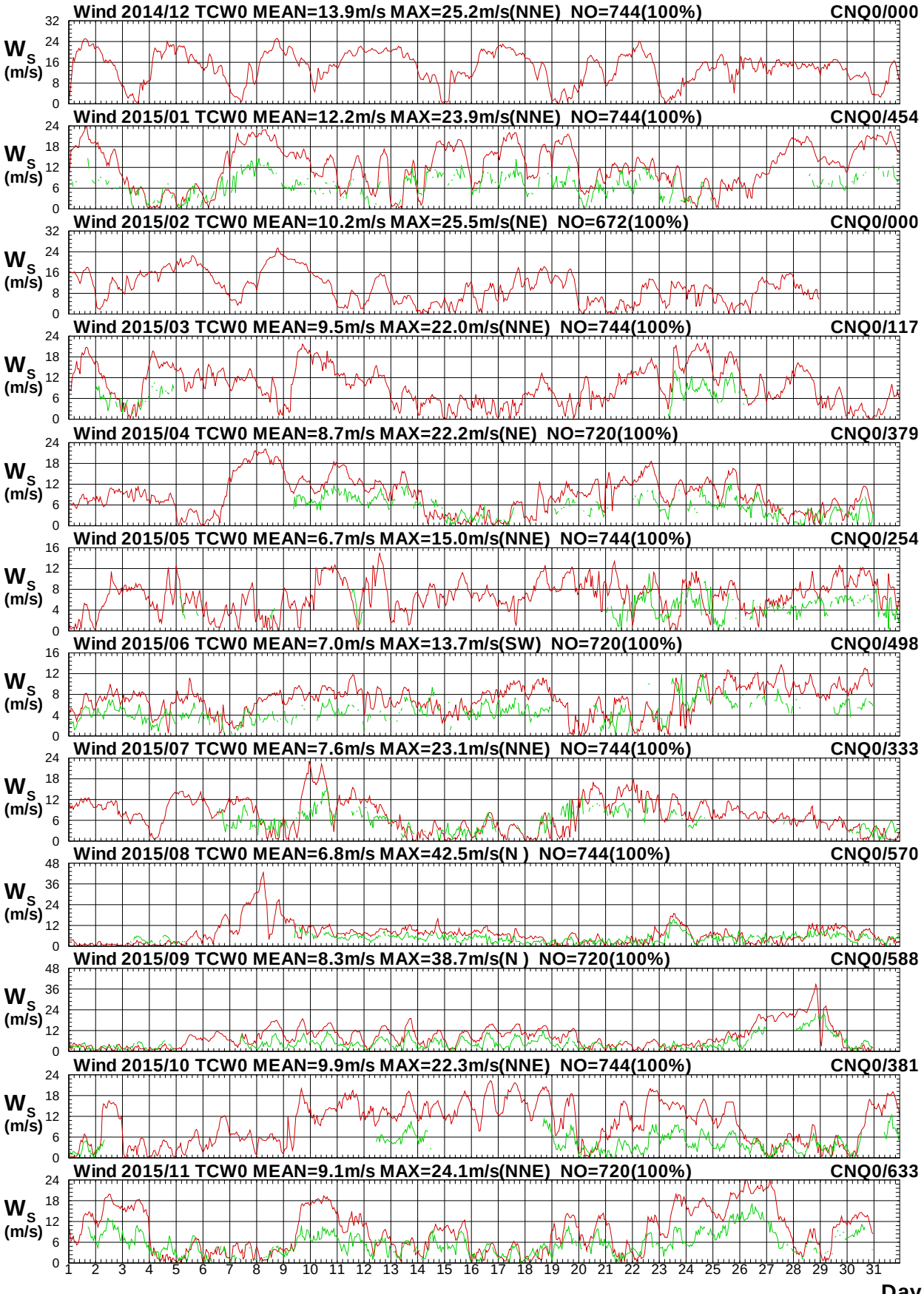

圖 9.13a　2015年每月中雲海域 W 站與嘉南海域 Q 站風速圖

W14CTCW0.1HA W14CCNQ0.1H0 W151TCW0.1HA W151CNQ0.1H0 W152TCW0.1HA W152CNQ0.1H0
W153TCW0.1HA W153CNQ0.1H0 W154TCW0.1HA W154CNQ0.1H0 W155TCW0.1HA W155CNQ0.1H0

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Wind Direction in Chung-Yun Seas of TCW0 at 2015

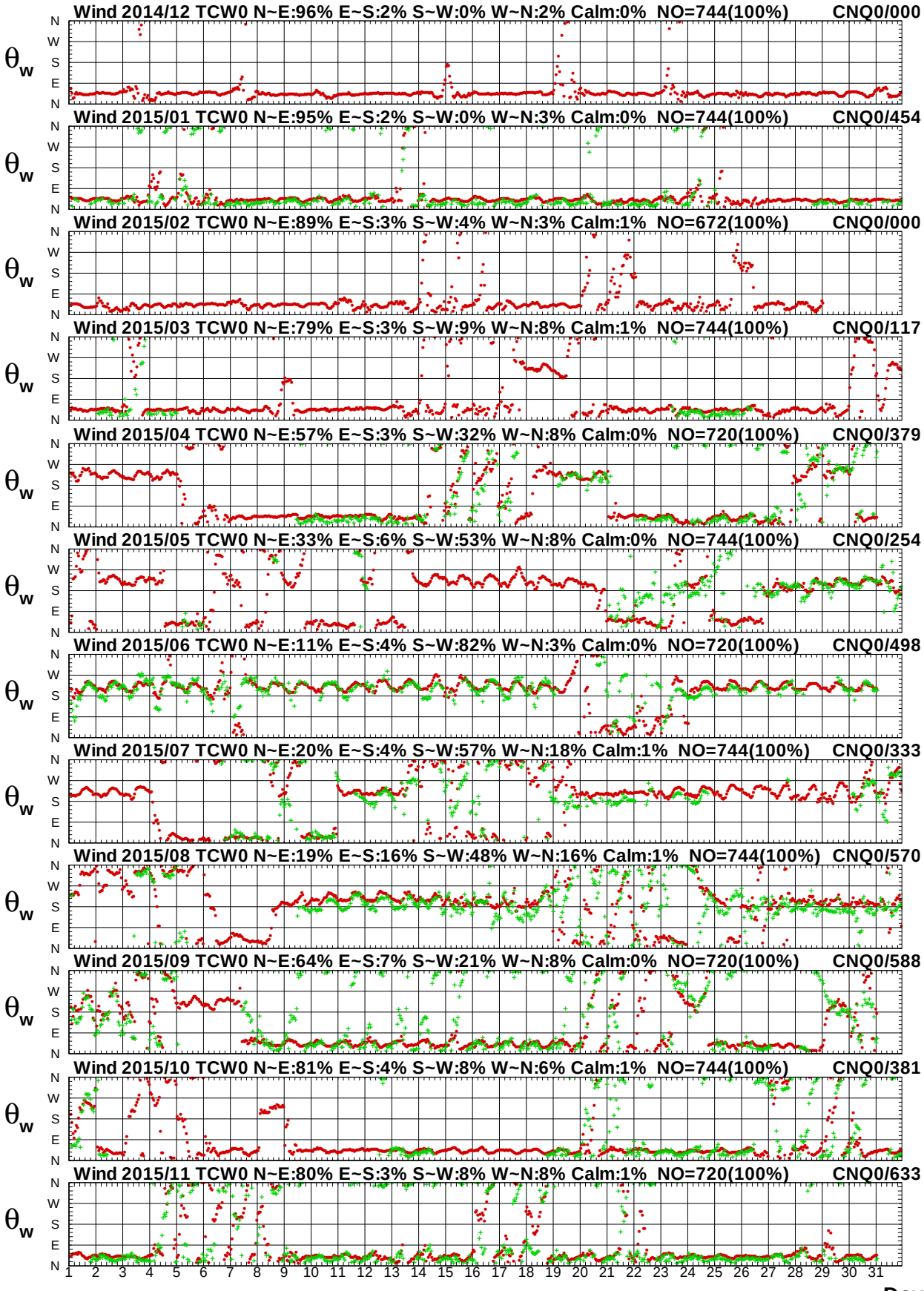

圖 9.13b　2015年每月中雲海域 W 站與嘉南海域 Q 站風向圖

W14CTCW0.1HA W14CCNQ0.1H0 W151TCW0.1HA W151CNQ0.1H0 W152TCW0.1HA W152CNQ0.1H0
W153TCW0.1HA W153CNQ0.1H0 W154TCW0.1HA W154CNQ0.1H0 W155TCW0.1HA W155CNQ0.1H0

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Wind Speed in Chung-Yun Seas of TCW0 at 2015

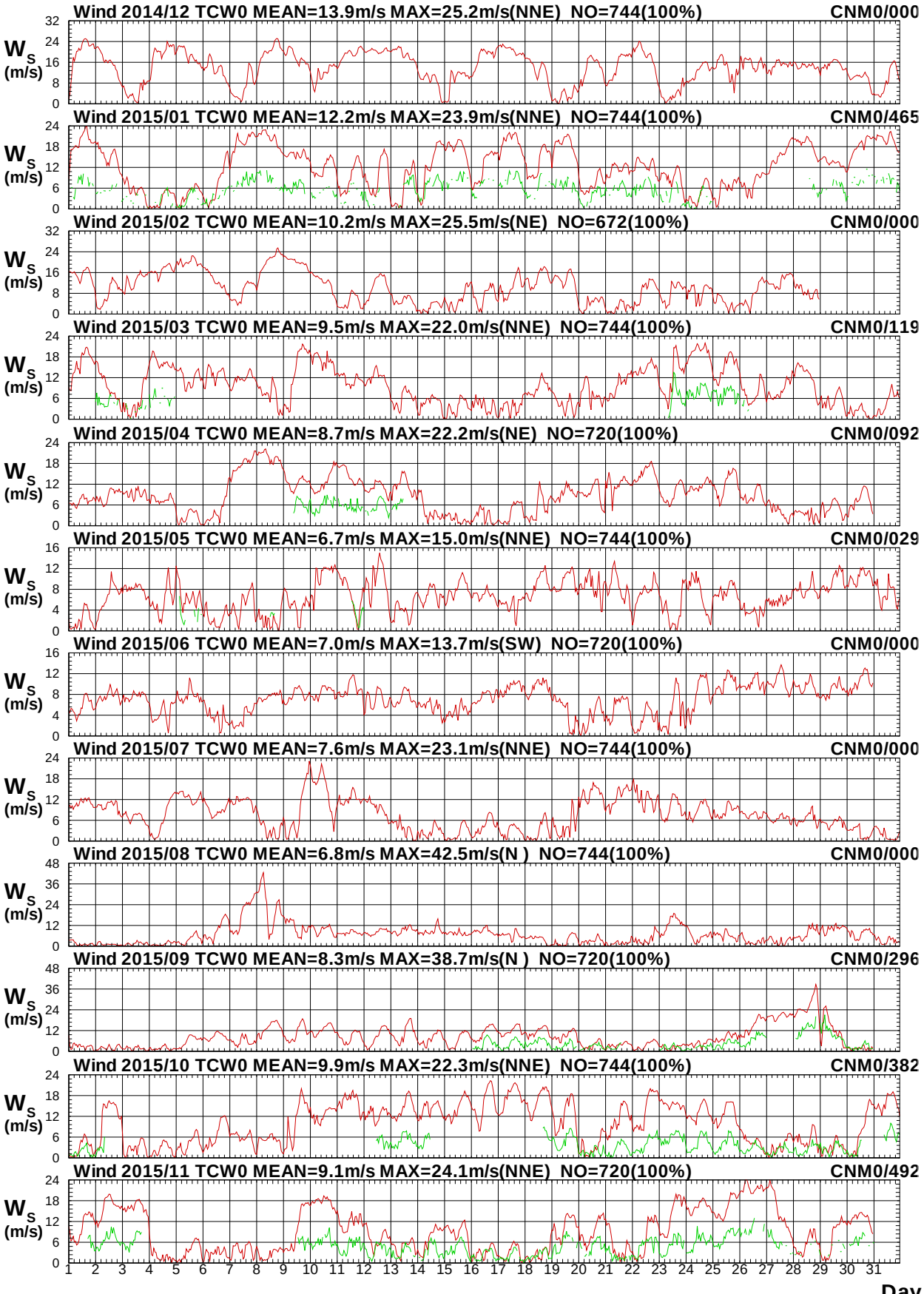

圖 9.14a　2015年每月中雲海域 W 站與嘉南海域 M 站風速圖

W14CTCW0.1HA W14CCNM0.1H0 W151TCW0.1HA W151CNM0.1H0 W152TCW0.1HA W152CNM0.1H0
W153TCW0.1HA W153CNM0.1H0 W154TCW0.1HA W154CNM0.1H0 W155TCW0.1HA W155CNM0.1H0

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Wind Direction in Chung-Yun Seas of TCW0 at 2015

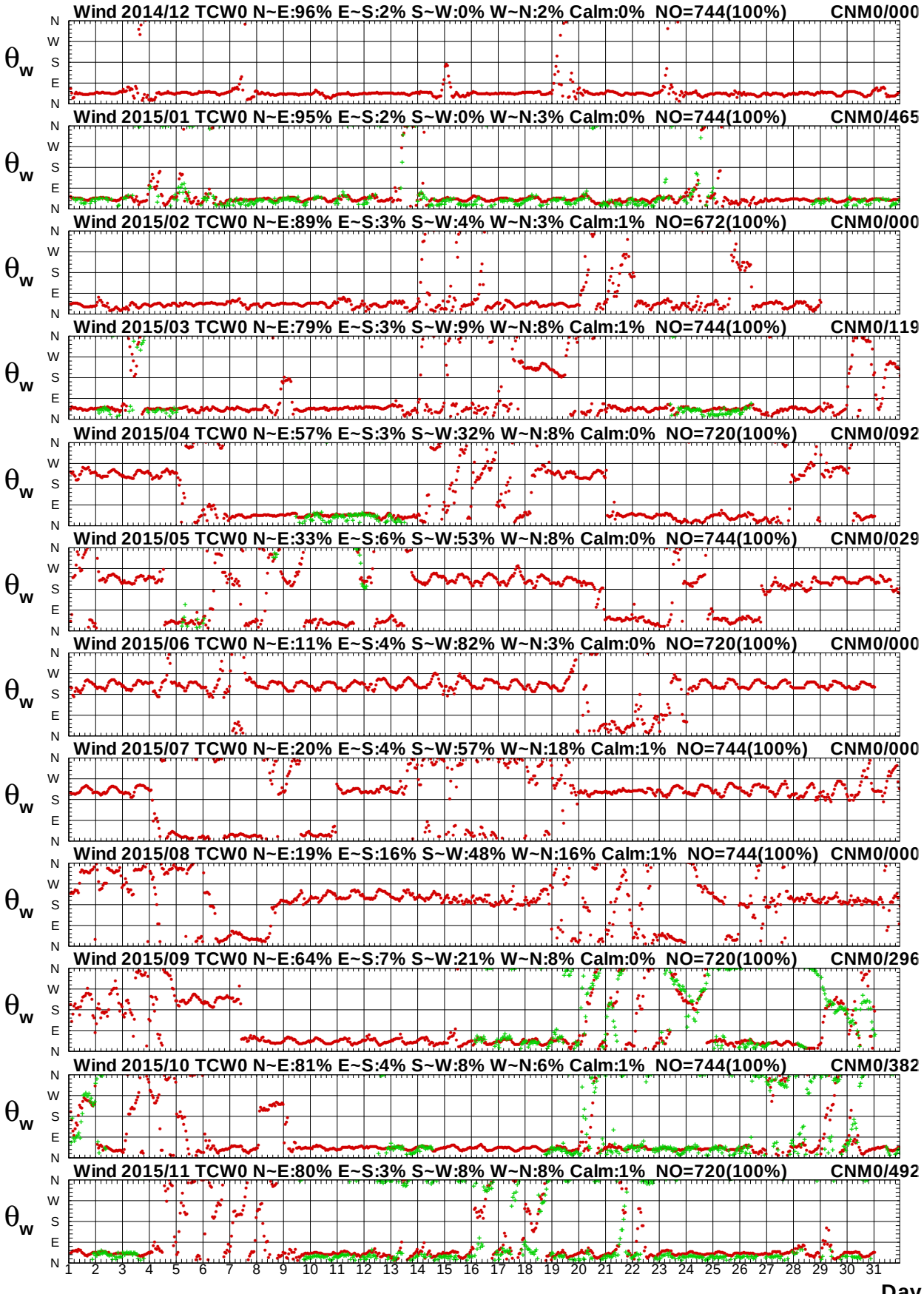

圖 9.14b　2015年每月中雲海域 W 站與嘉南海域 M 站風向圖

Wind Speed in Chung-Yun Seas of TCW0 at 2015

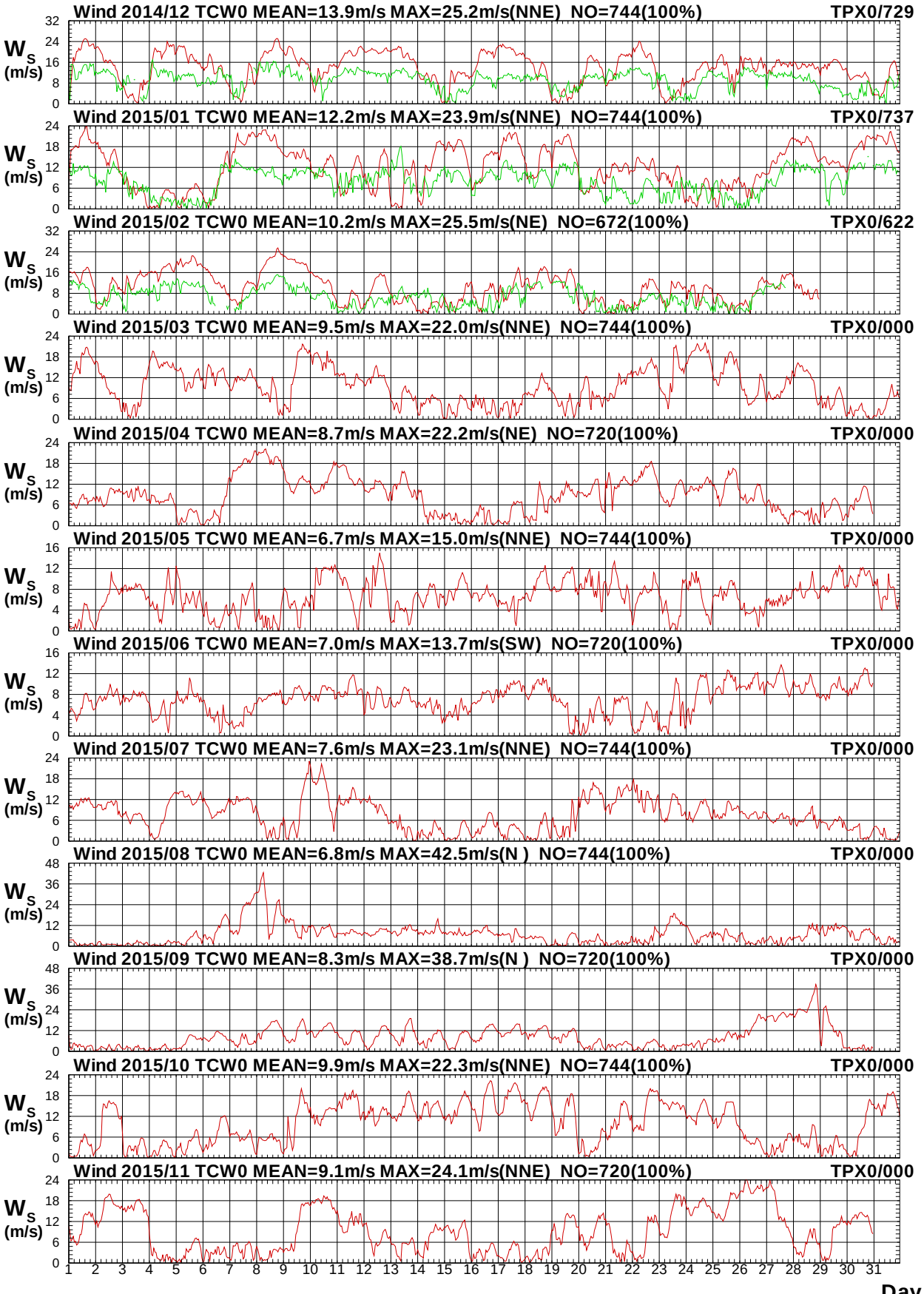

圖 9.15a　2015年每月中雲海域 W 站與北苗海域 X 站風速圖

W14CTCW0.1HA W14CTPX0.1H0 W151TCW0.1HA W151TPX0.1H0 W152TCW0.1HA W152TPX0.1H0
W153TCW0.1HA W153TPX0.1H0 W154TCW0.1HA W154TPX0.1H0 W155TCW0.1HA W155TPX0.1H0

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Wind Direction in Chung-Yun Seas of TCW0 at 2015

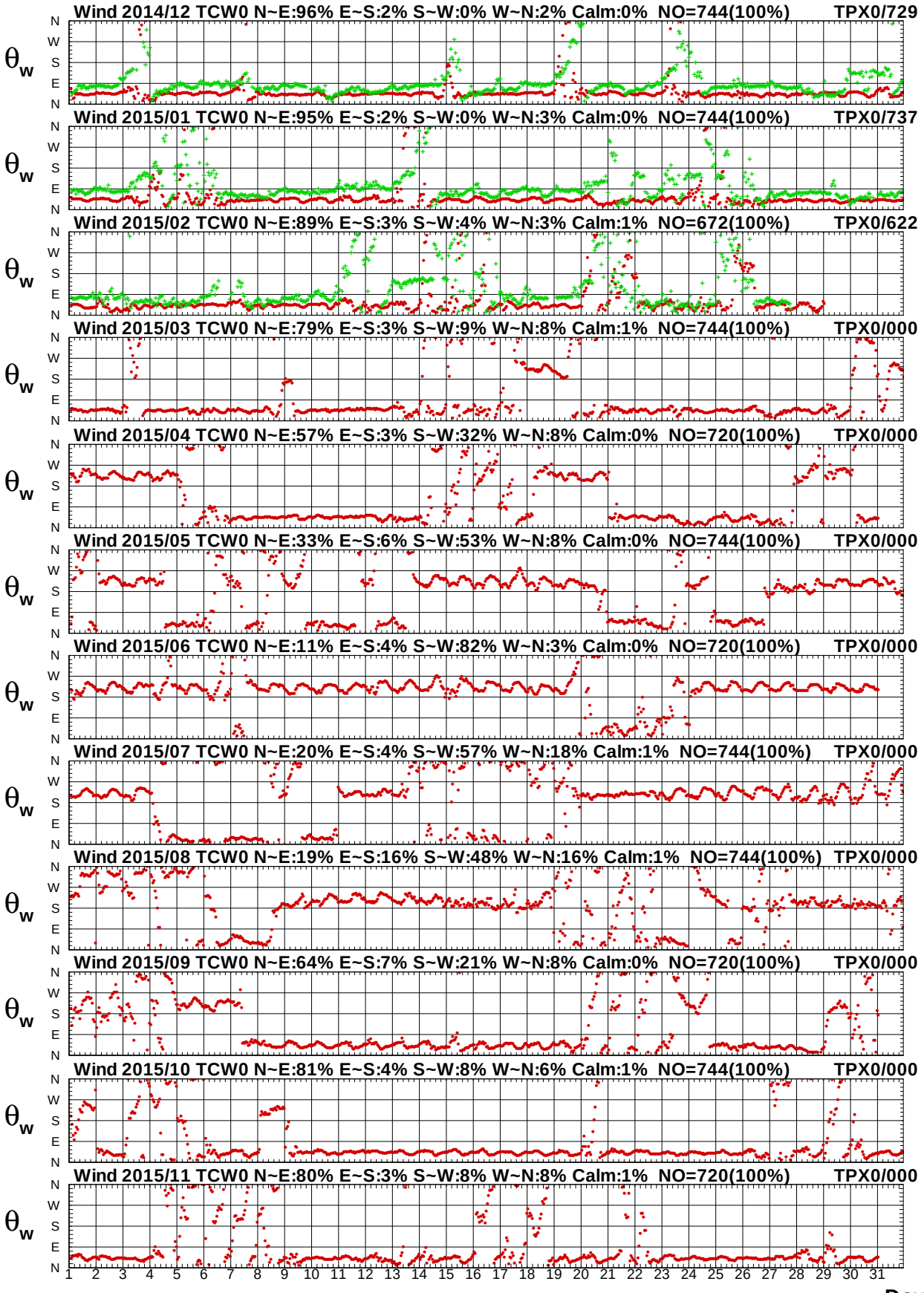

圖 9.15b　2015年每月中雲海域 W 站與北苗海域 X 站風向圖

W14CTCW0.1HA W14CTPX0.1H0 W151TCW0.1HA W151TPX0.1H0 W152TCW0.1HA W152TPX0.1H0
W153TCW0.1HA W153TPX0.1H0 W154TCW0.1HA W154TPX0.1H0 W155TCW0.1HA W155TPX0.1H0

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Wind Speed in Chung-Yun Seas of TCW0 at 2015

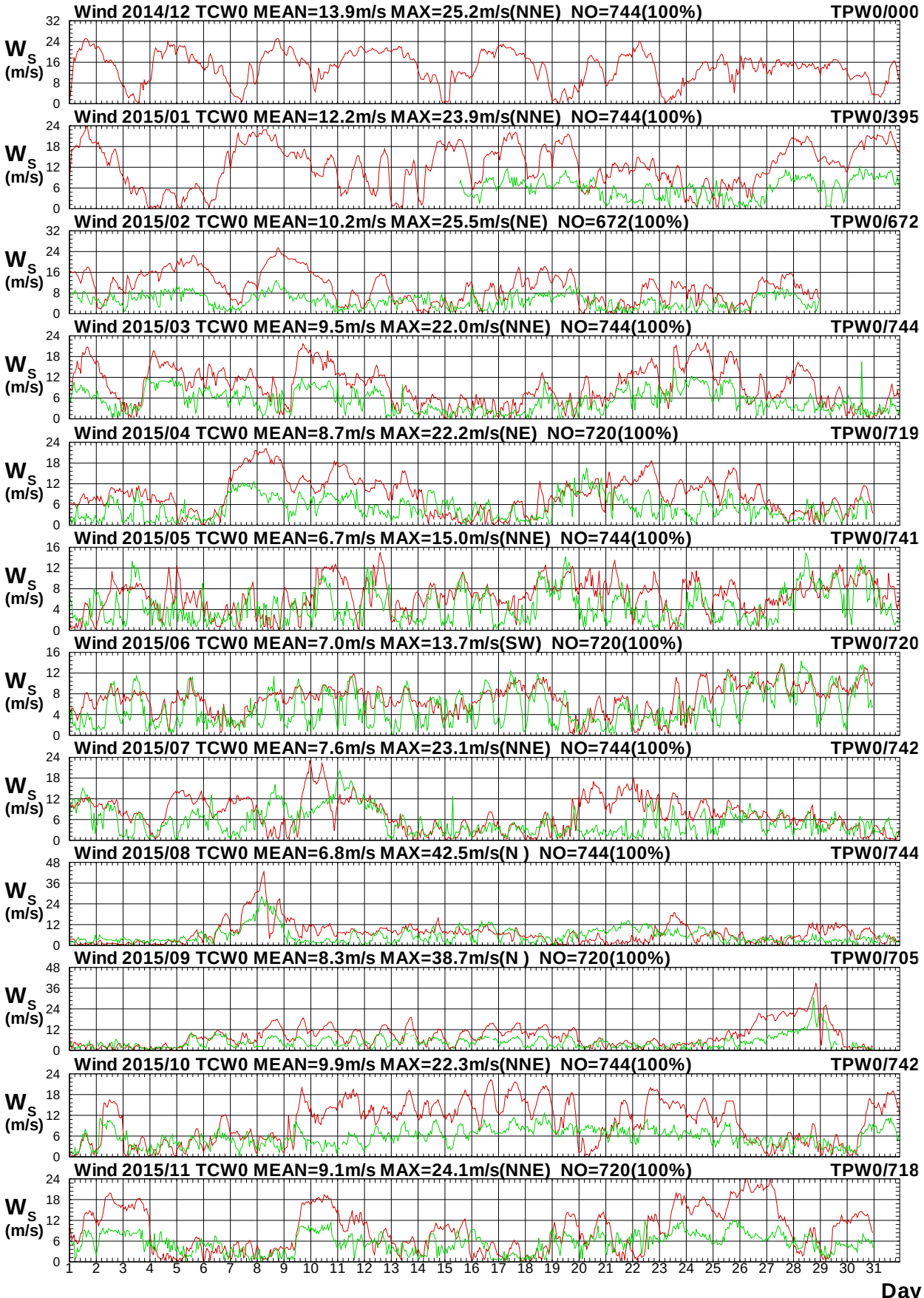

圖 9.16a　2015年每月中雲海域 W 站與北苗海域 W 站風速圖

Wind Direction in Chung-Yun Seas of TCW0 at 2015

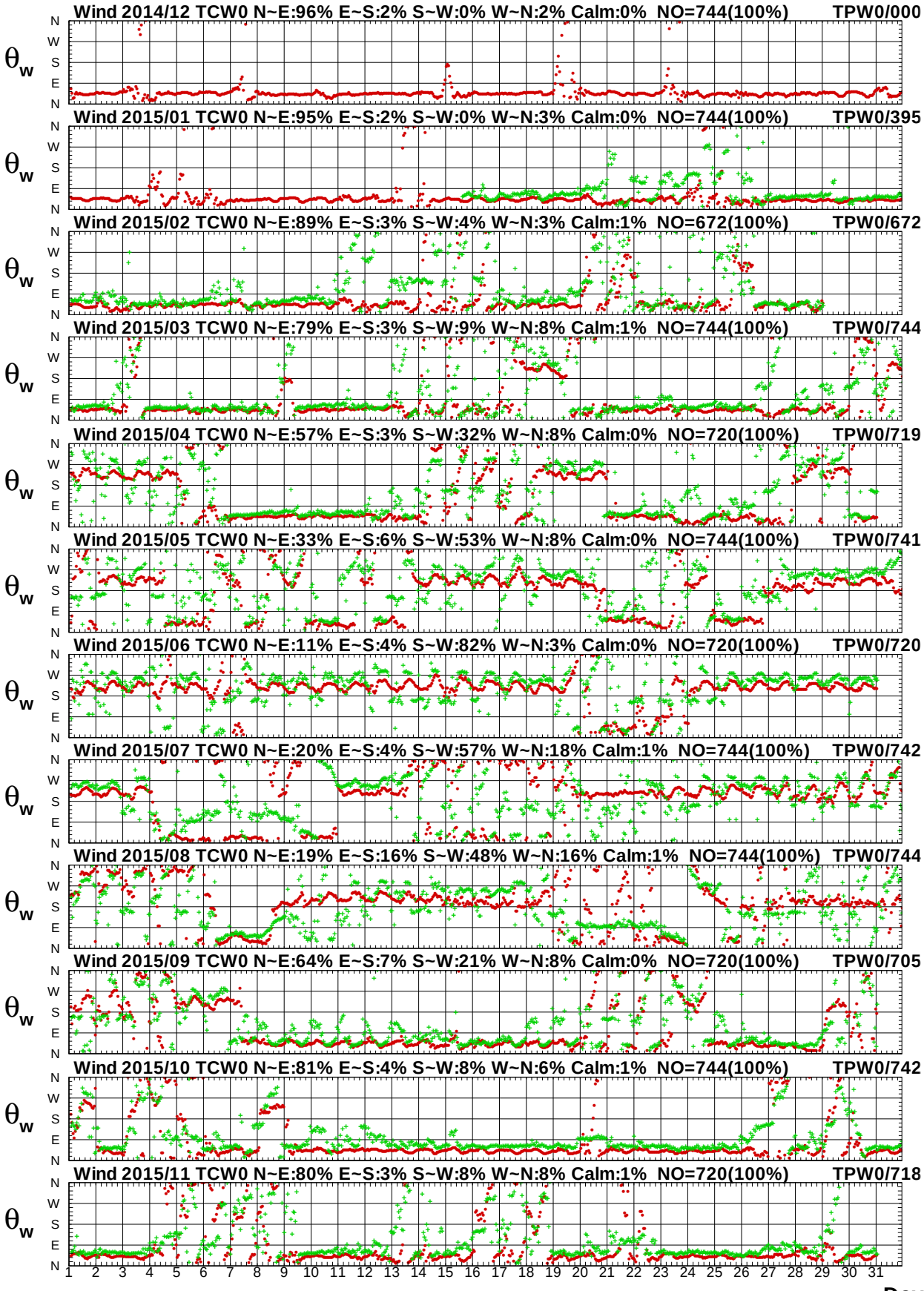

圖 9.16b　2015年每月中雲海域 W 站與北苗海域 W 站風向圖

W14CTCW0.1HA W14CTPW0.1H0 W151TCW0.1HA W151TPW0.1H0 W152TCW0.1HA W152TPW0.1H0
W153TCW0.1HA W153TPW0.1H0 W154TCW0.1HA W154TPW0.1H0 W155TCW0.1HA W155TPW0.1H0

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Wind Speed in Chung-Yun Seas of TCW0 at 2015

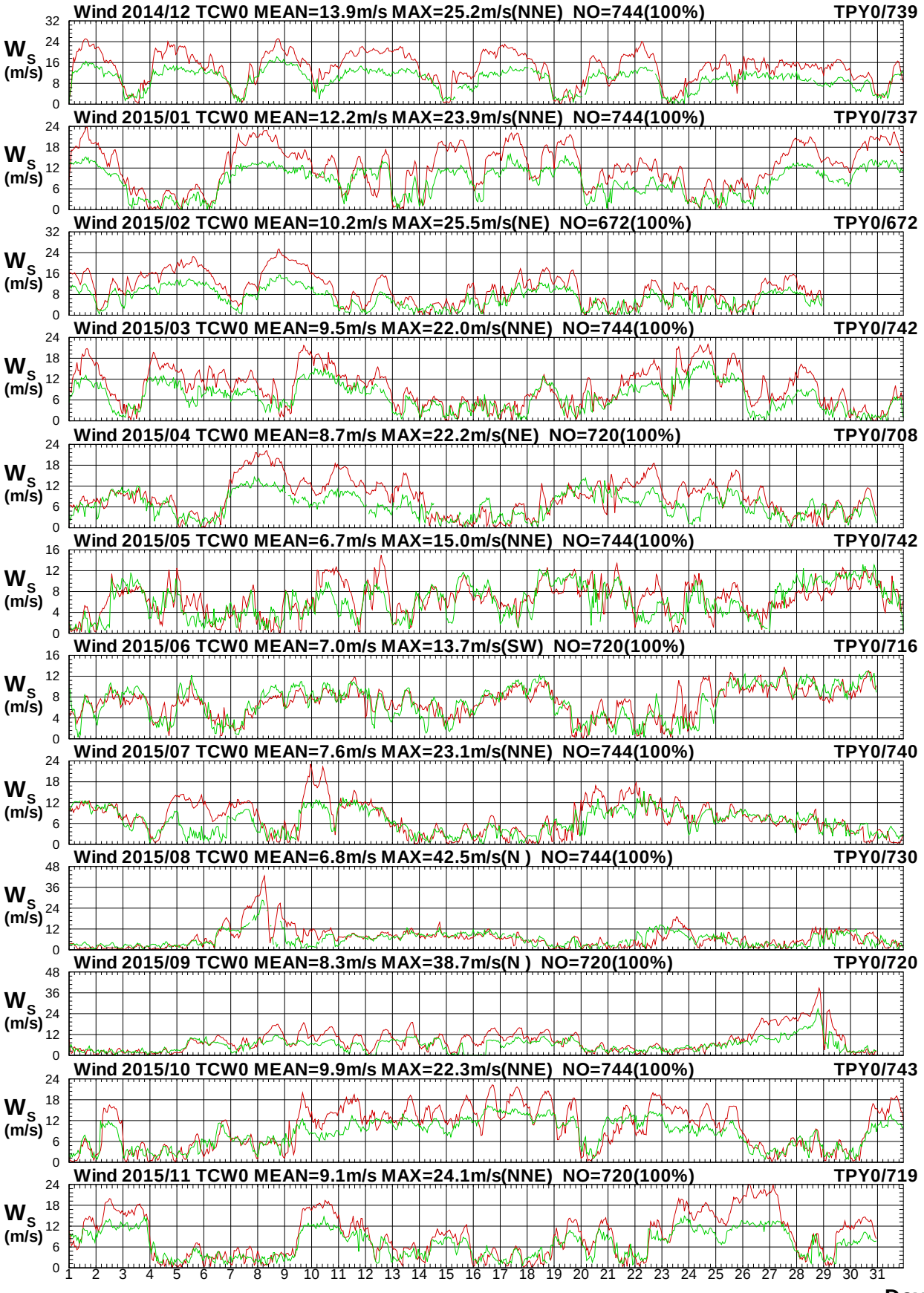

圖 9.17a　2015年每月中雲海域 W 站與北苗海域 Y 站風速圖

W14CTCW0.1HA W14CTPY0.1H0 W151TCW0.1HA W151TPY0.1H0 W152TCW0.1HA W152TPY0.1H0
W153TCW0.1HA W153TPY0.1H0 W154TCW0.1HA W154TPY0.1H0 W155TCW0.1HA W155TPY0.1H0

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Wind Direction in Chung-Yun Seas of TCW0 at 2015

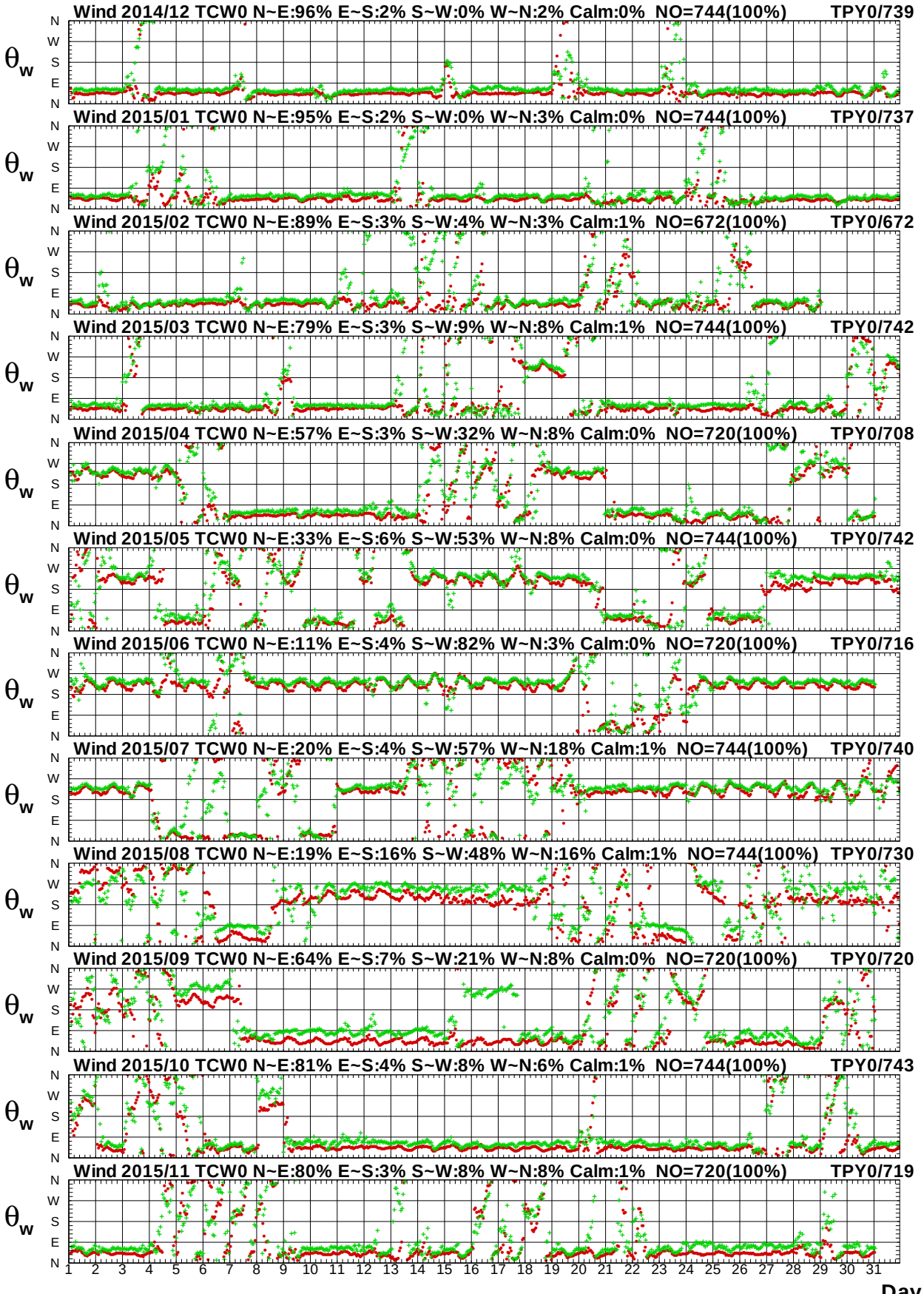

圖9.17b　2015年每月中雲海域 W 站與北苗海域 Y 站風向圖

Wind Speed in Chung-Yun Seas of TCW0 at 2015

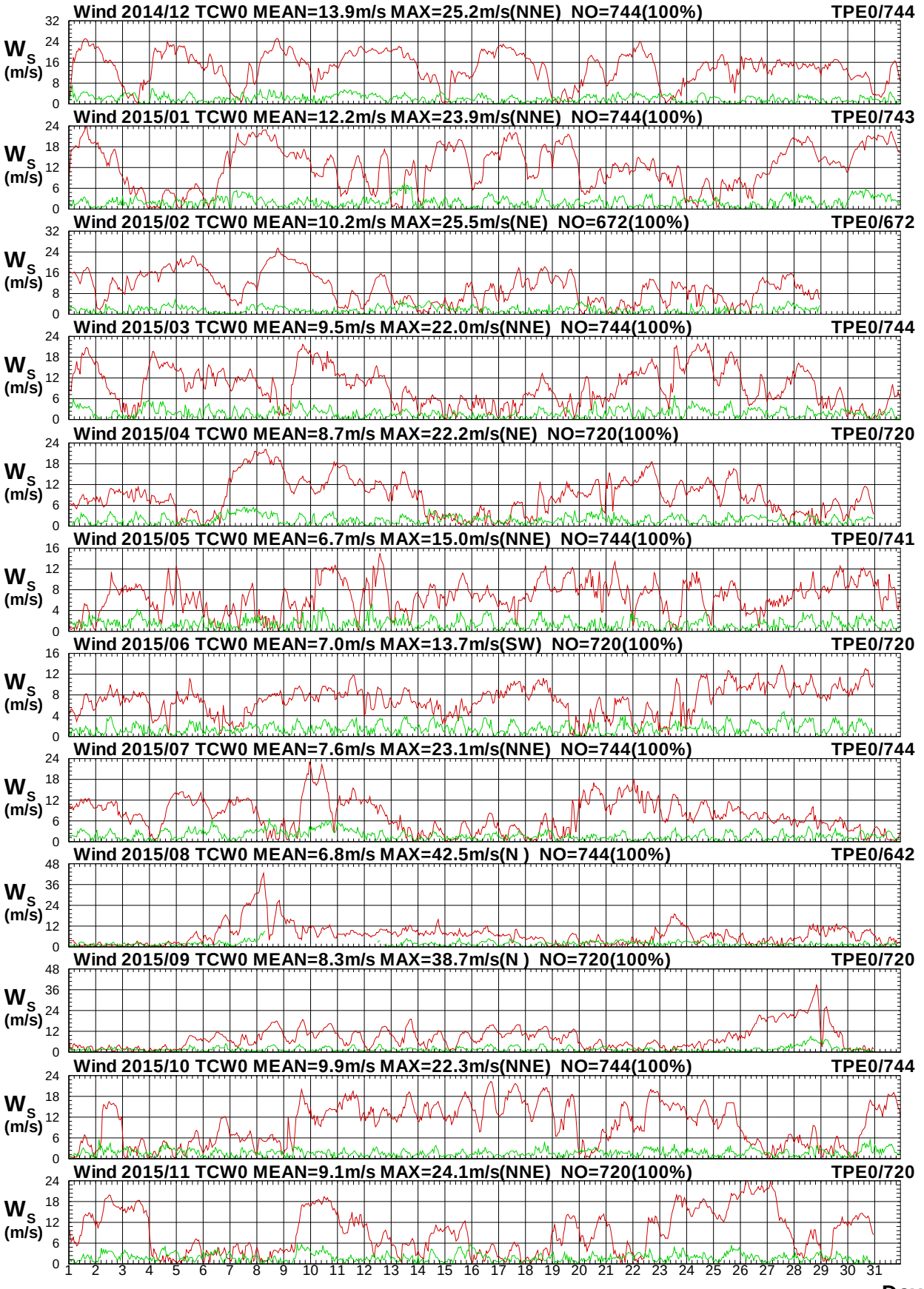

圖 9.18a　2015年每月中雲海域 W 站與北苗海域 E 站風速圖

W14CTCW0.1HA W14CTPE0.1H0 W151TCW0.1HA W151TPE0.1H0 W152TCW0.1HA W152TPE0.1H0
W153TCW0.1HA W153TPE0.1H0 W154TCW0.1HA W154TPE0.1H0 W155TCW0.1HA W155TPE0.1H0

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Wind Direction in Chung-Yun Seas of TCW0 at 2015

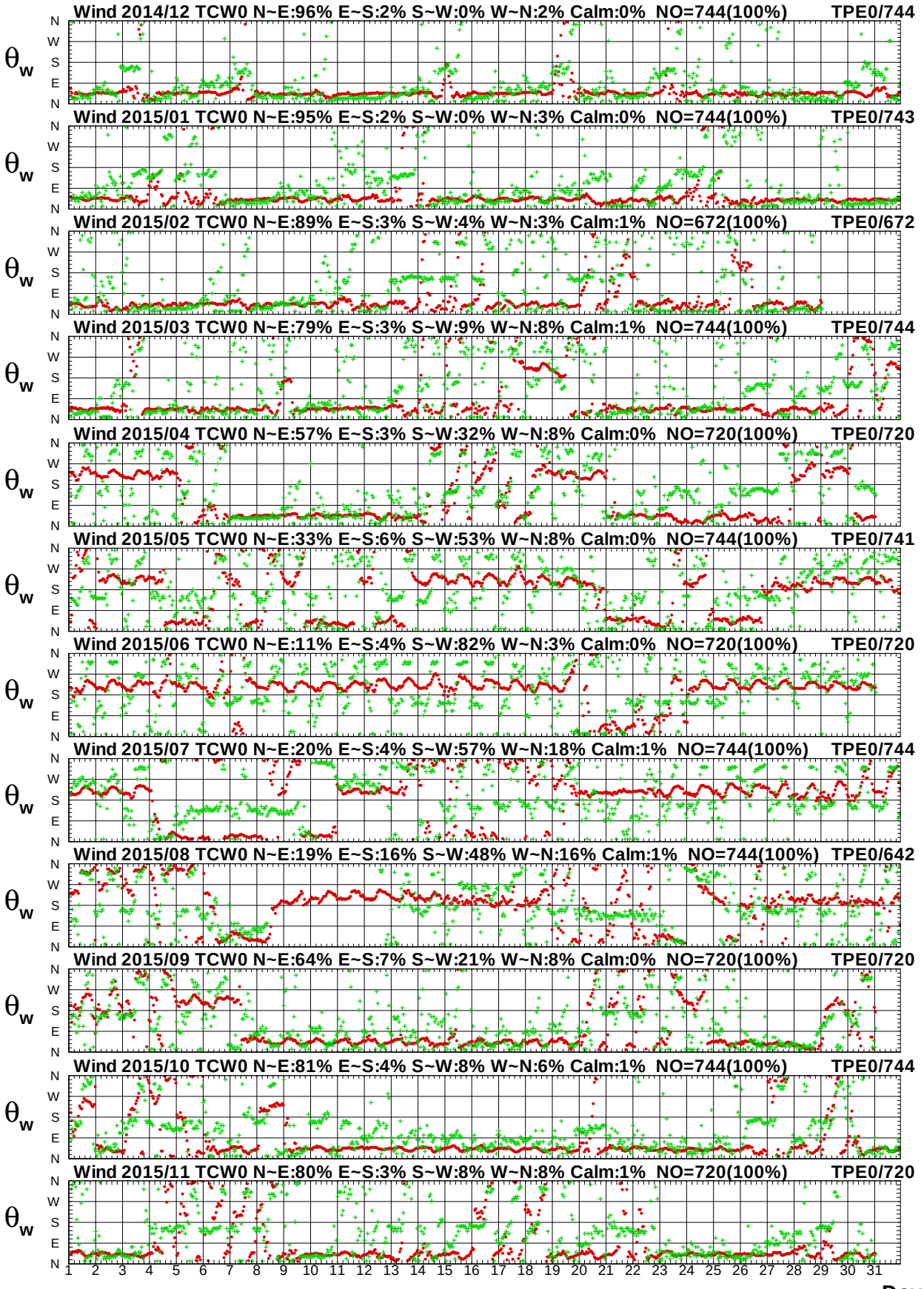

圖 9.18b　2015年每月中雲海域 W 站與北苗海域 E 站風向圖

W14CTCW0.1HA W14CTPE0.1H0 W151TCW0.1HA W151TPE0.1H0 W152TCW0.1HA W152TPE0.1H0
W153TCW0.1HA W153TPE0.1H0 W154TCW0.1HA W154TPE0.1H0 W155TCW0.1HA W155TPE0.1H0

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Wind Speed in Chung-Yun Seas of TCW0 at 2015

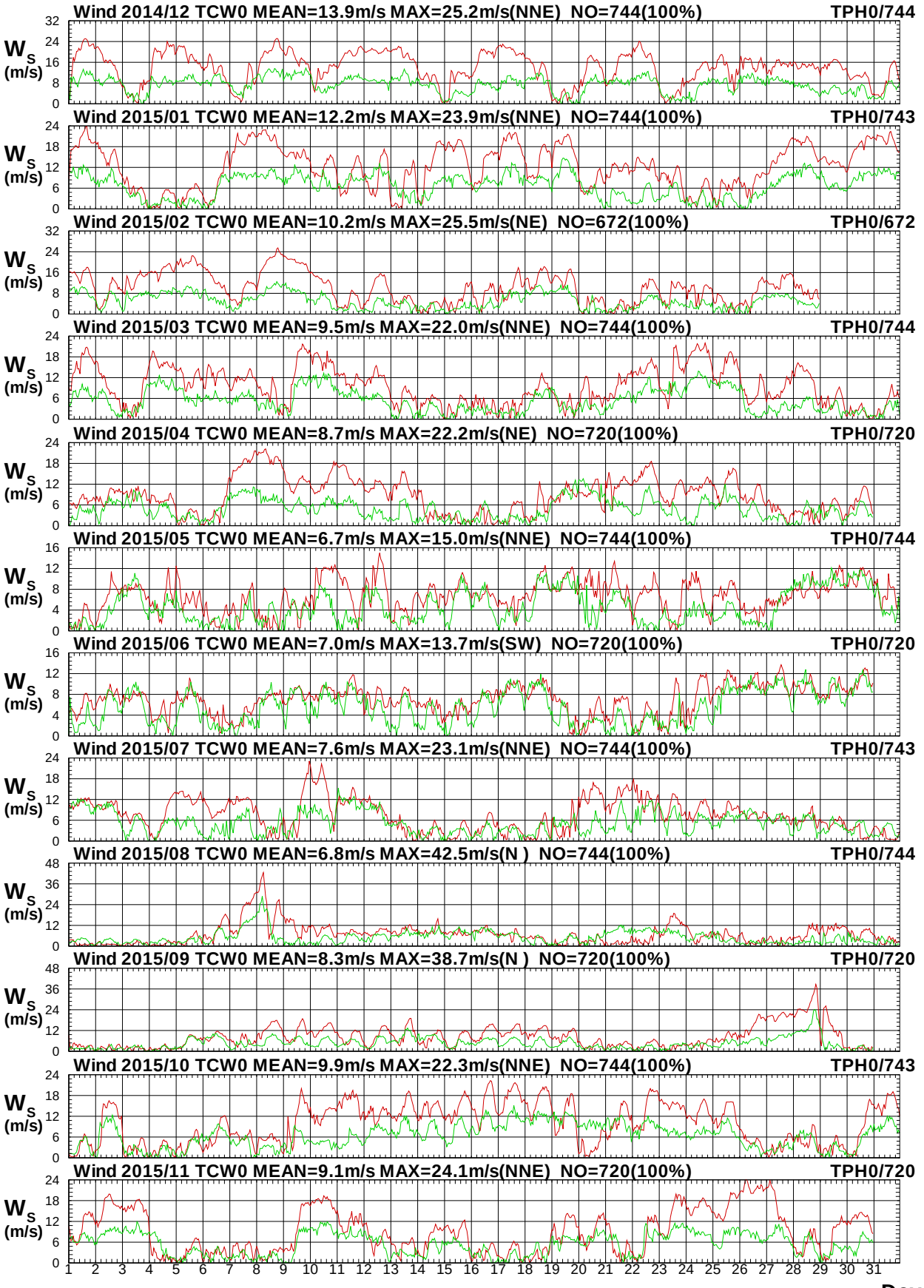

圖 9.19a　2015年每月中雲海域 W 站與北苗海域 H 站風速圖

W14CTCW0.1HA W14CTPH0.1H0 W151TCW0.1HA W151TPH0.1H0 W152TCW0.1HA W152TPH0.1H0
W153TCW0.1HA W153TPH0.1H0 W154TCW0.1HA W154TPH0.1H0 W155TCW0.1HA W155TPH0.1H0

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Wind Direction in Chung-Yun Seas of TCW0 at 2015

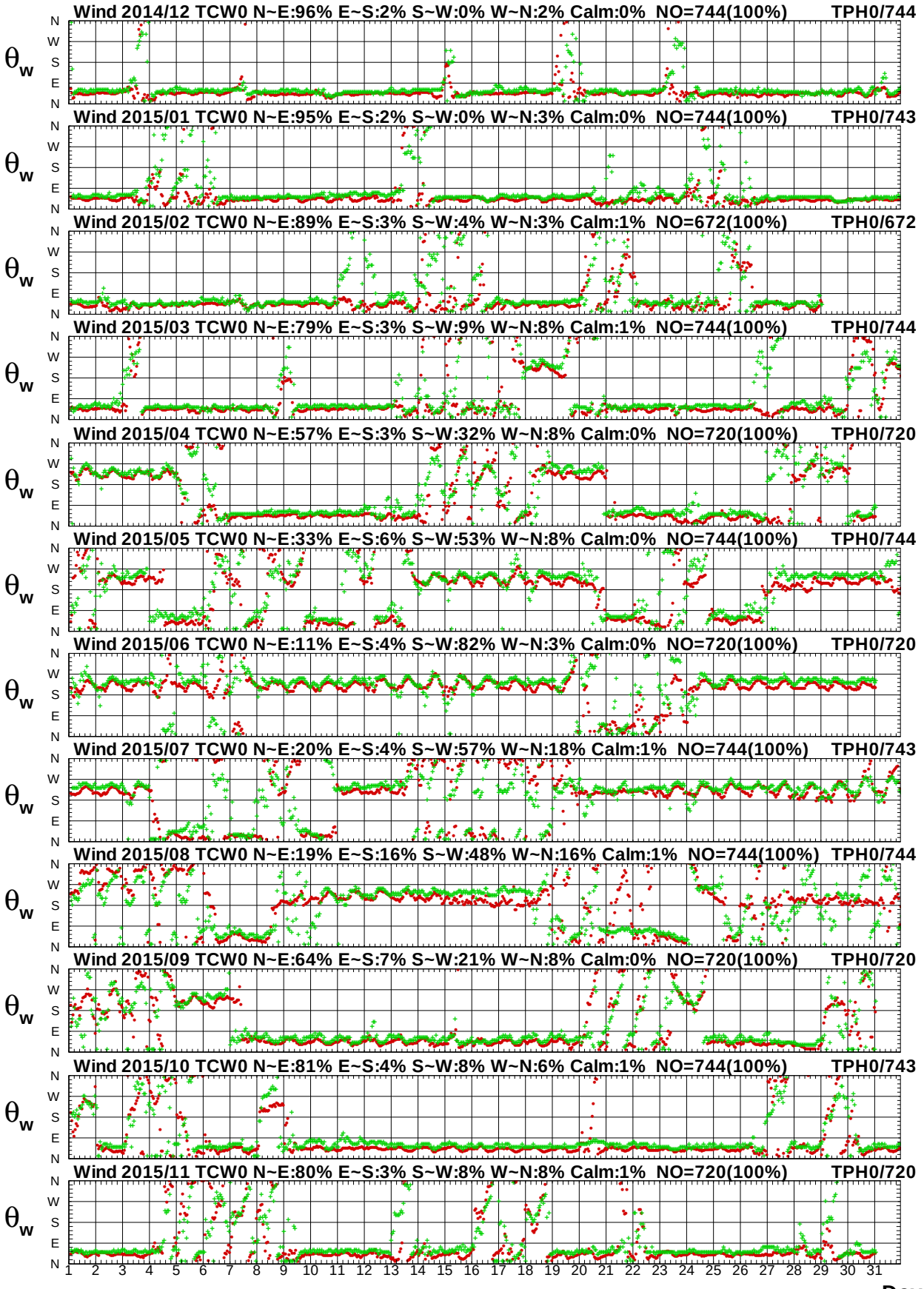

圖 9.19b　2015年每月中雲海域 W 站與北苗海域 H 站風向圖

Wind Speed in Chung-Yun Seas of TCW0 at 2015

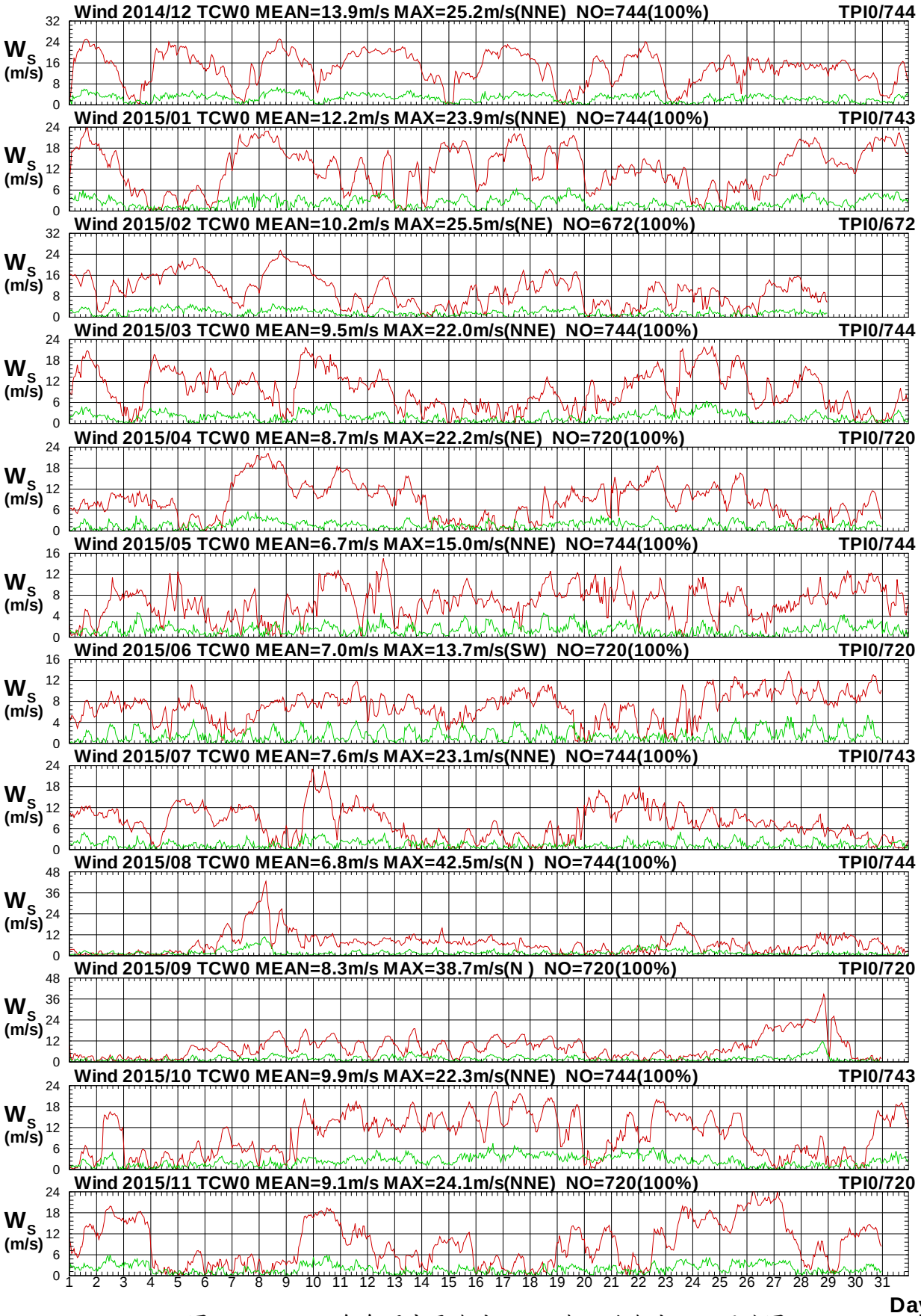

圖 9.20a　2015年每月中雲海域 W 站與北苗海域 I 站風速圖

W14CTCW0.1HA W14CTPI0.1H0 W151TCW0.1HA W151TPI0.1H0 W152TCW0.1HA W152TPI0.1H0
W153TCW0.1HA W153TPI0.1H0 W154TCW0.1HA W154TPI0.1H0 W155TCW0.1HA W155TPI0.1H0

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Wind Direction in Chung-Yun Seas of TCW0 at 2015

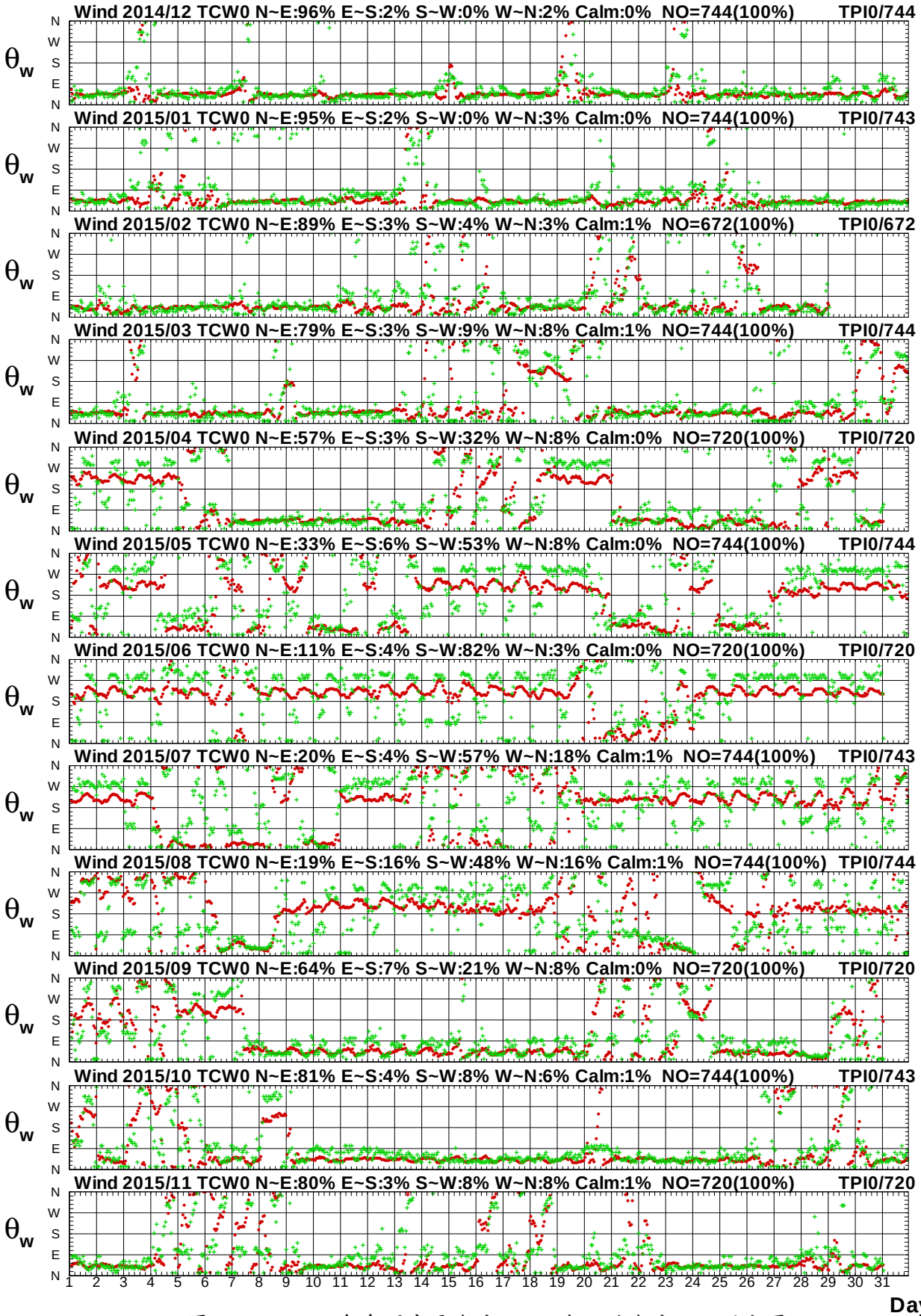

圖 9.20b　2015年每月中雲海域 W 站與北苗海域 I 站風向圖

Wind Speed in Chung-Yun Seas of TCW0 at 2015

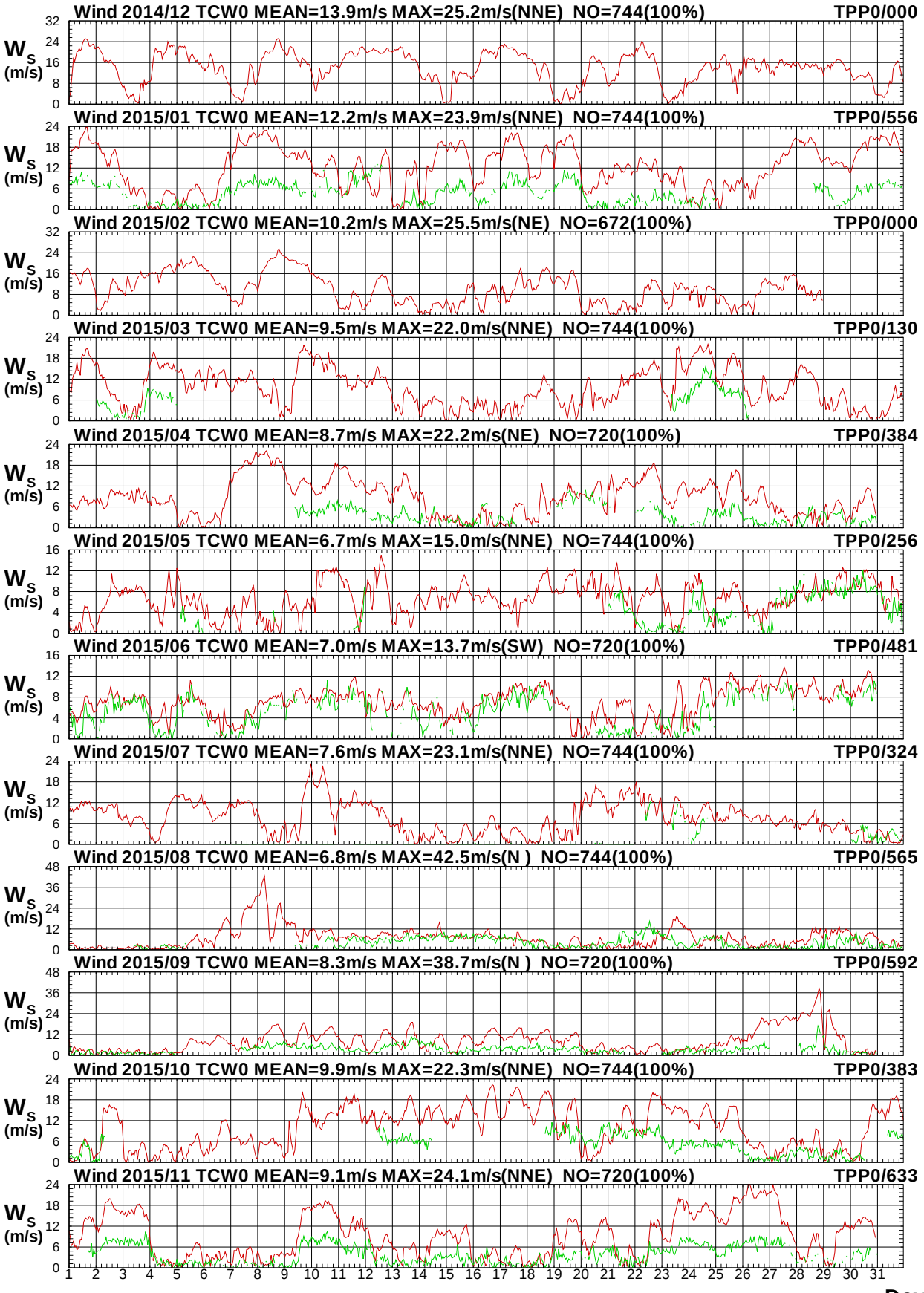

圖 9.21a　2015年每月中雲海域 W 站與北苗海域 P 站風速圖

W14CTCW0.1HA W14CTPP0.1H0 W151TCW0.1HA W151TPP0.1H0 W152TCW0.1HA W152TPP0.1H0
W153TCW0.1HA W153TPP0.1H0 W154TCW0.1HA W154TPP0.1H0 W155TCW0.1HA W155TPP0.1H0

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Wind Direction in Chung-Yun Seas of TCW0 at 2015

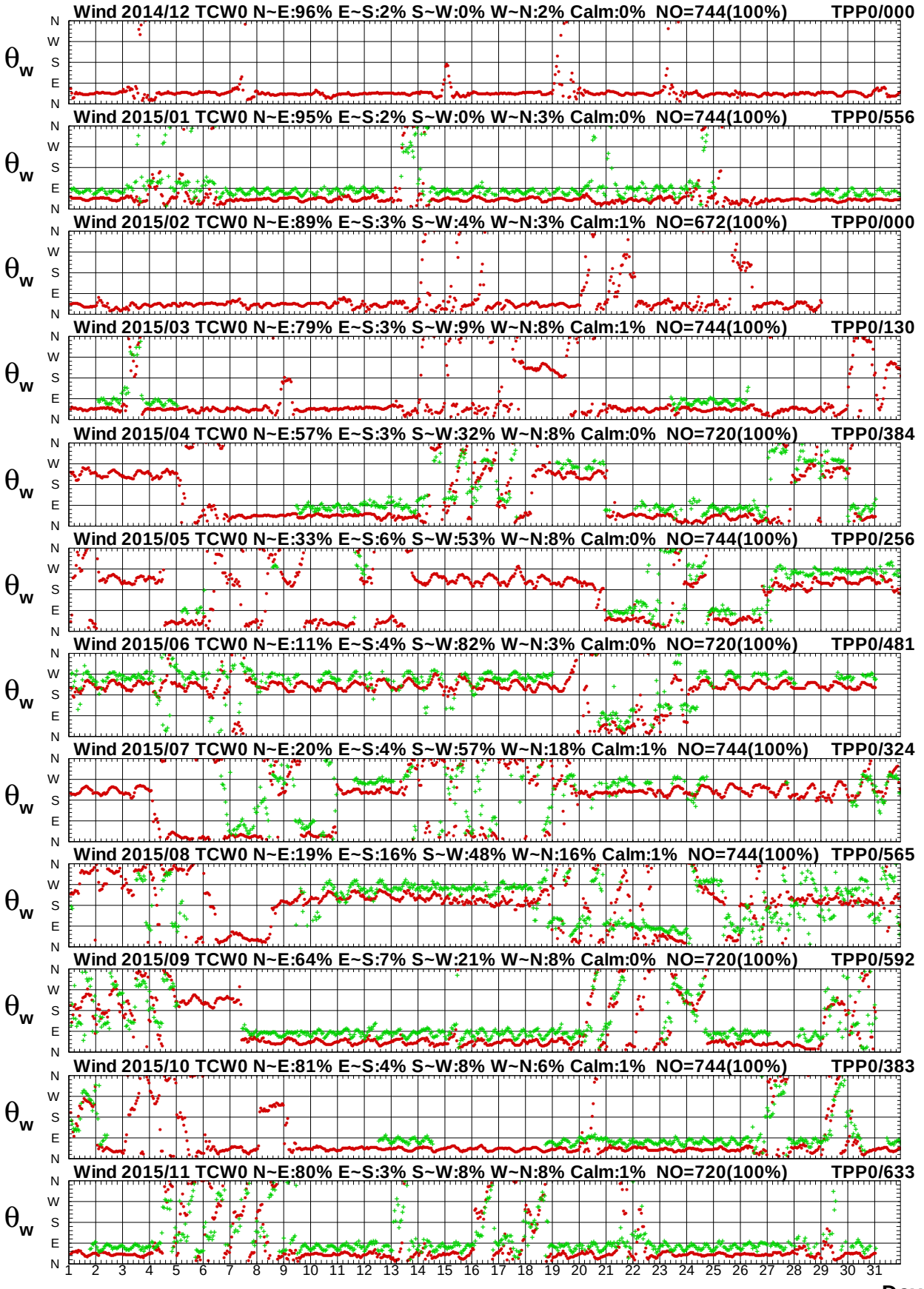

圖 9.21b　2015年每月中雲海域 W 站與北苗海域 P 站風向圖

W14CTCW0.1HA W14CTPP0.1H0 W151TCW0.1HA W151TPP0.1H0 W152TCW0.1HA W152TPP0.1H0
W153TCW0.1HA W153TPP0.1H0 W154TCW0.1HA W154TPP0.1H0 W155TCW0.1HA W155TPP0.1H0

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Wind Speed in Chung-Yun Seas of TCW0 at 2015

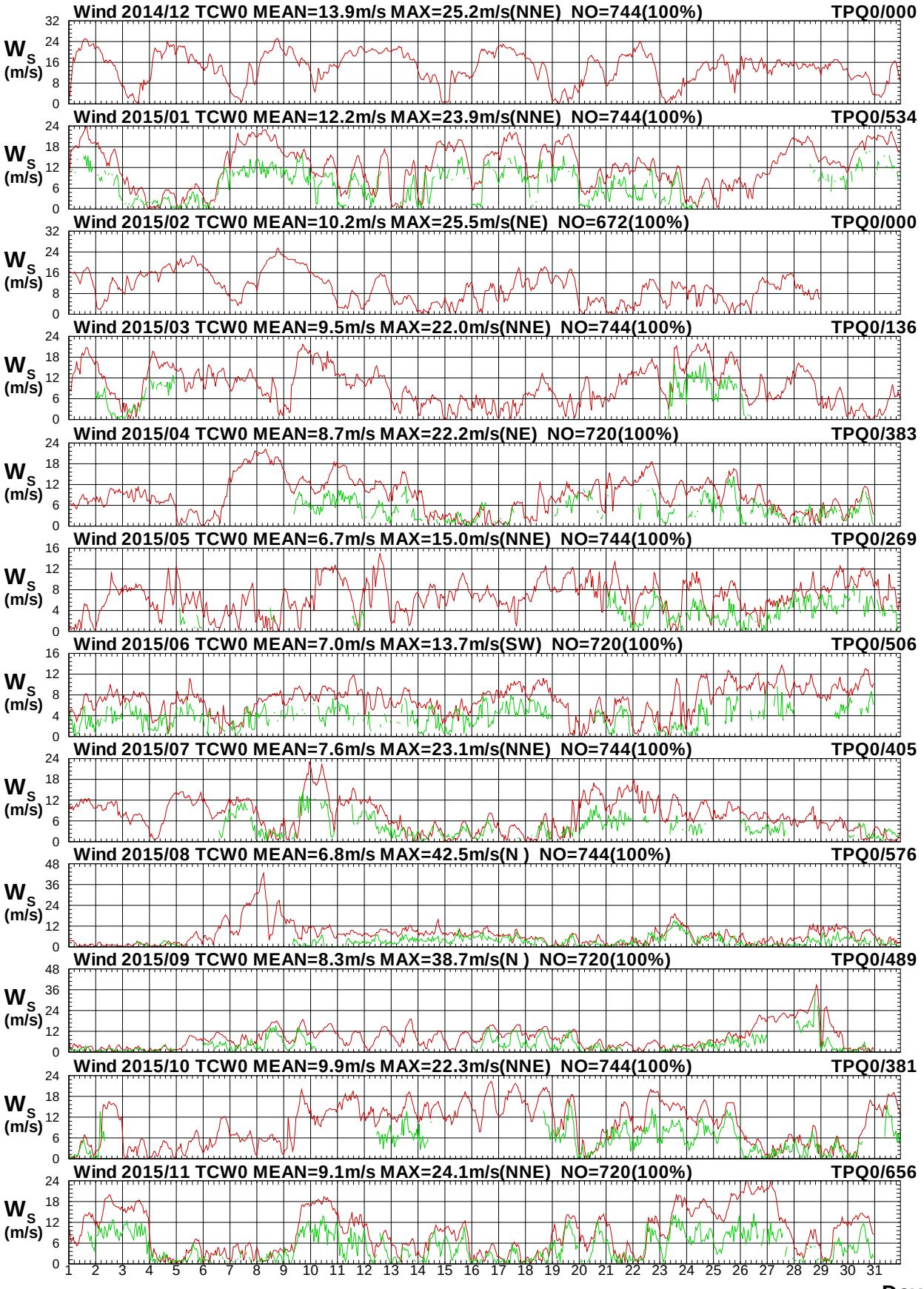

圖 9.22a　2015年每月中雲海域 W 站與北苗海域 Q 站風速圖

Wind Direction in Chung-Yun Seas of TCW0 at 2015

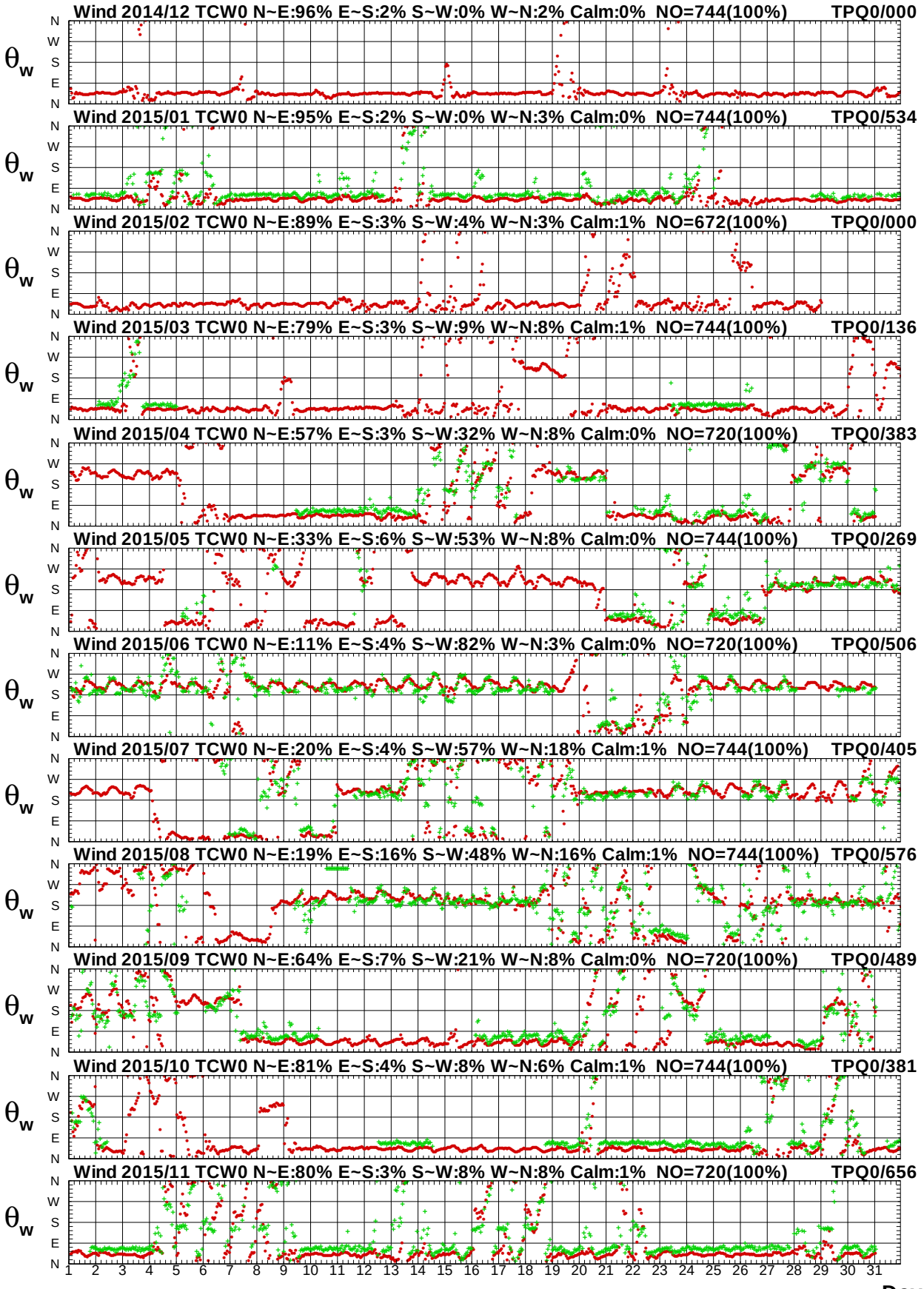

圖 9.22b　2015年每月中雲海域 W 站與北苗海域 Q 站風向圖

第十章　2015 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 10。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 10。

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)。

本風力年報以取經檢核或修補後之 **Y 站**資料作為**主要觀測站**，2015 年主要觀測站修補前(後)每月觀測之風資料記錄期間統計表，如表 10.1a，2015 年風力**次要觀測站**資料(未補餘)記錄統計表，如表 10.1b，**主要觀測站**修補前後每月風力歷線比較圖，如圖 10.1，**主要觀測站**與**次要觀測站**(或**其他觀測站**)每月風力歷線比較圖，如圖 10.2 以後。

表 10 澎湖海域觀測風力資料蒐集概況表(統計時間至 2015 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	2009/12-2015/11(觀測中)	港研中心	馬公港區
B	23°33'30"N	119°40'5.5"E	2009/12-2015/11(觀測中)	港研中心	龍門尖山港區
E	23°34'02"N	119°33'19"E	2001/01-2015/11(觀測中)	中央氣象局	馬公港區
Y	23°43'37"N	119°33'07"E	2006/09-2015/11(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	2015/07-2015/11(觀測中)	中央氣象局	七美資料浮標
I	23°34'02"N	119°33'19"E	2014/08-2015/11(觀測中)	中央氣象局	東吉島

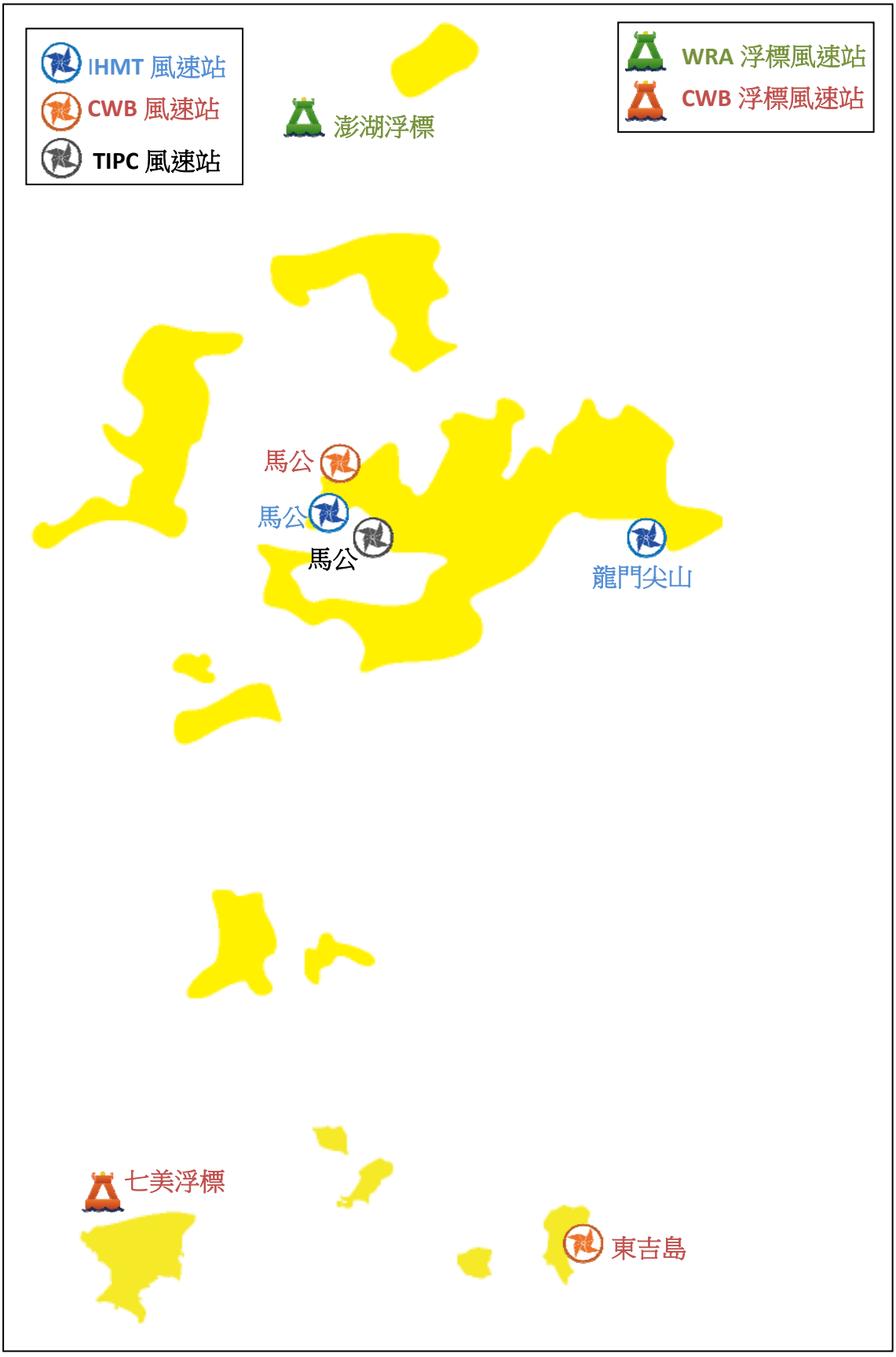

圖 10 澎湖海域風力觀測站位置示意圖

表10.1a 2015年每月澎湖海域修補前各測站觀測風力資料紀錄統計表

年/月 港區	澎湖海域	澎湖海域	澎湖海域	澎湖海域	澎湖海域	澎湖海域	澎湖海域	澎湖海域
測站	W	Y	B	R	E	H	I	
2014/12月	744 (100%)	655 (88.0%)	743 (99.9%)	*	744 (100%)	*	744 (100%)	*
2015/ 1月	744 (100%)	662 (89.0%)	744 (100%)	*	743 (99.9%)	*	743 (99.9%)	*
2015/ 2月	672 (100%)	618 (92.0%)	672 (100%)	*	672 (100%)	*	672 (100%)	*
2015/ 3月	744 (100%)	692 (93.0%)	744 (100%)	*	744 (100%)	*	744 (100%)	*
2015/ 4月	720 (100%)	634 (88.1%)	720 (100%)	*	720 (100%)	*	720 (100%)	*
2015/ 5月	744 (100%)	698 (93.8%)	744 (100%)	*	744 (100%)	*	744 (100%)	*
2015/ 6月	720 (100%)	706 (98.1%)	719 (99.9%)	*	720 (100%)	*	720 (100%)	*
2015/ 7月	744 (100%)	706 (94.9%)	744 (100%)	365 (49.1%)	744 (100%)	*	744 (100%)	*
2015/ 8月	744 (100%)	710 (95.4%)	744 (100%)	718 (96.5%)	744 (100%)	*	744 (100%)	*
2015/ 9月	720 (100%)	691 (96.0%)	716 (99.4%)	700 (97.2%)	720 (100%)	*	720 (100%)	*
2015/10月	744 (100%)	711 (95.6%)	744 (100%)	718 (96.5%)	744 (100%)	*	744 (100%)	*
2015/11月	720 (100%)	699 (97.1%)	720 (100%)	688 (95.6%)	720 (100%)	*	720 (100%)	*
2015/冬季	2160 (100%)	1935 (89.6%)	2159 (100.0%)	*	2159 (100.0%)	*	2159 (100.0%)	*
2015/春季	2208 (100%)	2024 (91.7%)	2208 (100%)	*	2208 (100%)	*	2208 (100%)	*
2015/夏季	2208 (100%)	2122 (96.1%)	2207 (100.0%)	1083 (49.0%)	2208 (100%)	*	2208 (100%)	*
2015/秋季	2184 (100%)	2101 (96.2%)	2180 (99.8%)	2106 (96.4%)	2184 (100%)	*	2184 (100%)	*
2015/整年	8760 (100%)	8182 (93.4%)	8754 (99.9%)	3189 (36.4%)	8759 (100.0%)	*	8759 (100.0%)	*
起始年月	2014/12	2014/12	2014/12	2015/07	2014/12	*	2014/12	*
結束年月	2015/11	2015/11	2015/11	2015/11	2015/11	*	2015/11	*

表10.1b 2015年每月澎湖海域修補後各測站風力資料統計表

年/月 港區	澎湖海域	澎湖海域	澎湖海域	澎湖海域	澎湖海域	澎湖海域	澎湖海域	澎湖海域
測站	W	Y	B	R	E	H	I	
2014/12月	744 (100%)	744 (100%)	744 (100%)	*	744 (100%)	*	744 (100%)	*
2015/ 1月	744 (100%)	744 (100%)	744 (100%)	*	744 (100%)	*	744 (100%)	*
2015/ 2月	672 (100%)	672 (100%)	672 (100%)	*	672 (100%)	*	672 (100%)	*
2015/ 3月	744 (100%)	744 (100%)	744 (100%)	*	744 (100%)	*	744 (100%)	*
2015/ 4月	720 (100%)	720 (100%)	720 (100%)	*	720 (100%)	*	720 (100%)	*
2015/ 5月	744 (100%)	744 (100%)	744 (100%)	*	744 (100%)	*	744 (100%)	*
2015/ 6月	720 (100%)	720 (100%)	720 (100%)	*	720 (100%)	*	720 (100%)	*
2015/ 7月	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	*	744 (100%)	*
2015/ 8月	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	*	744 (100%)	*
2015/ 9月	720 (100%)	720 (100%)	720 (100%)	720 (100%)	720 (100%)	*	720 (100%)	*
2015/10月	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	*	744 (100%)	*
2015/11月	720 (100%)	720 (100%)	720 (100%)	720 (100%)	720 (100%)	*	720 (100%)	*
2015/冬季	2160 (100%)	2160 (100%)	2160 (100%)	*	2160 (100%)	*	2160 (100%)	*
2015/春季	2208 (100%)	2208 (100%)	2208 (100%)	*	2208 (100%)	*	2208 (100%)	*
2015/夏季	2208 (100%)	2208 (100%)	2208 (100%)	1488 (67.4%)	2208 (100%)	*	2208 (100%)	*
2015/秋季	2184 (100%)	2184 (100%)	2184 (100%)	2184 (100%)	2184 (100%)	*	2184 (100%)	*
2015/整年	8760 (100%)	8760 (100%)	8760 (100%)	3672 (41.9%)	8760 (100%)	*	8760 (100%)	*
起始年月	2014/12	2014/12	2014/12	2015/07	2014/12	*	2014/12	*
結束年月	2015/11	2015/11	2015/11	2015/11	2015/11	*	2015/11	*

Wind Speed in Peng-Hu Seas of PHY0 at 2015

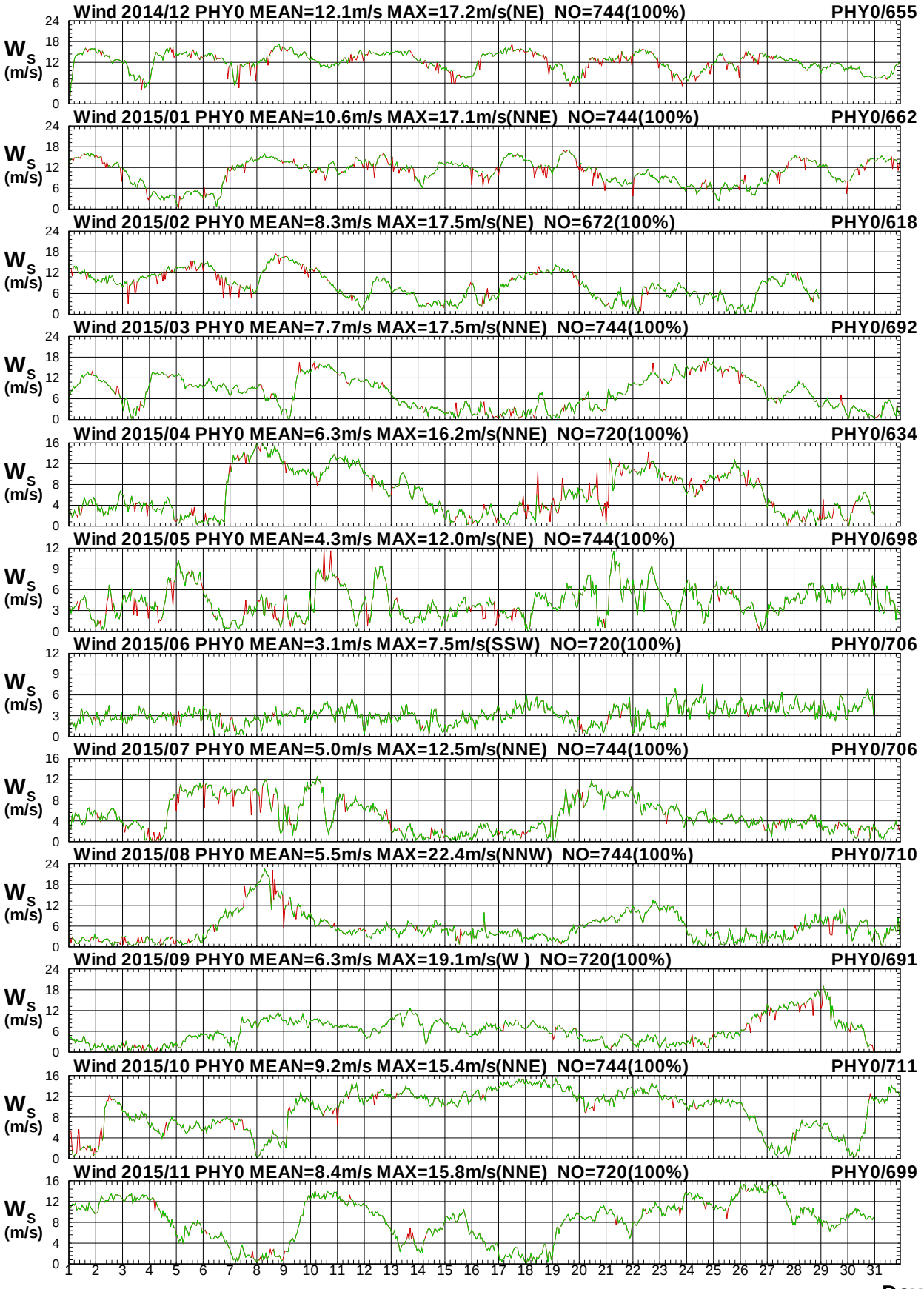

圖 10.1a　2015年每月澎湖海域 Y 站修補前後之風速比較圖

W14CPHY0.1HA W14CPHY0.1H0 W151PHY0.1HA W151PHY0.1H0 W152PHY0.1HA W152PHY0.1H0
W153PHY0.1HA W153PHY0.1H0 W154PHY0.1HA W154PHY0.1H0 W155PHY0.1HA W155PHY0.1H0

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Wind Direction in Peng-Hu Seas of PHY0 at 2015

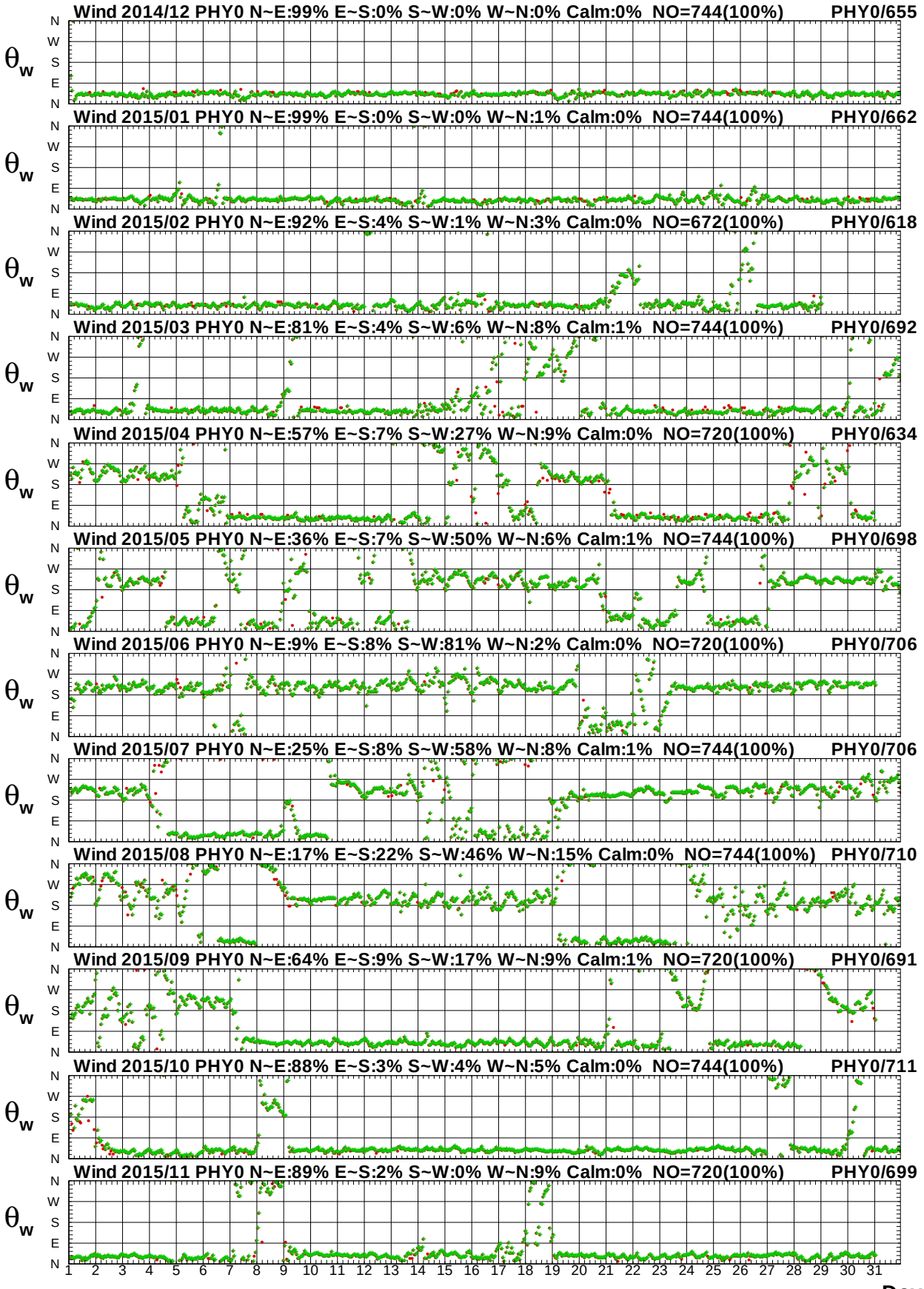

圖 10.1b　2015年每月澎湖海域 Y 站修補前後之風向比較圖

Wind Speed in Peng-Hu Seas of PHY0 at 2015

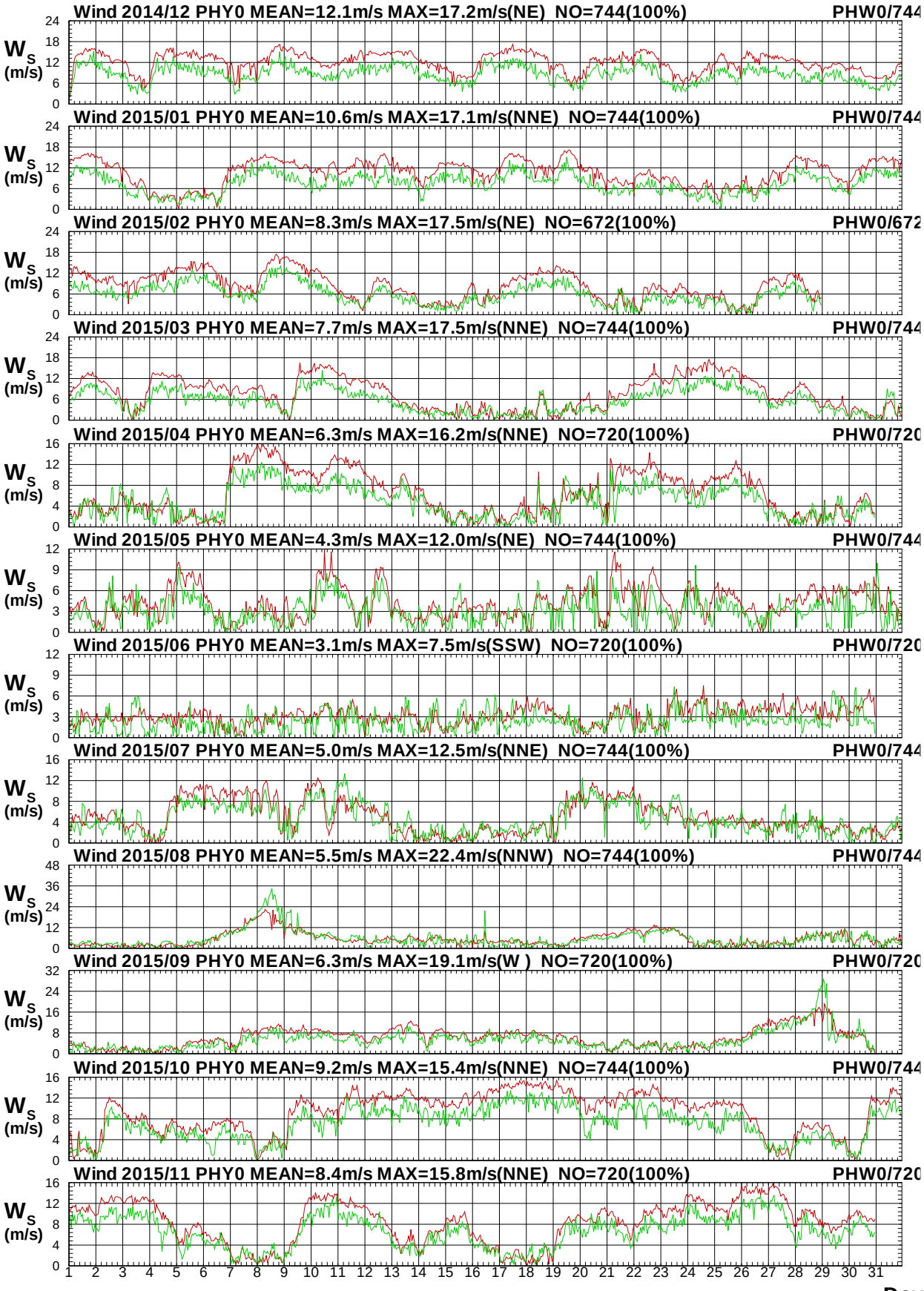

圖 10.2a　2015年每月澎湖海域 Y 站與 W 站風速比較圖

W14CPHY0.1HA W14CPHW0.1H0 W151PHY0.1HA W151PHW0.1H0 W152PHY0.1HA W152PHW0.1H0
W153PHY0.1HA W153PHW0.1H0 W154PHY0.1HA W154PHW0.1H0 W155PHY0.1HA W155PHW0.1H0

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Wind Direction in Peng-Hu Seas of PHY0 at 2015

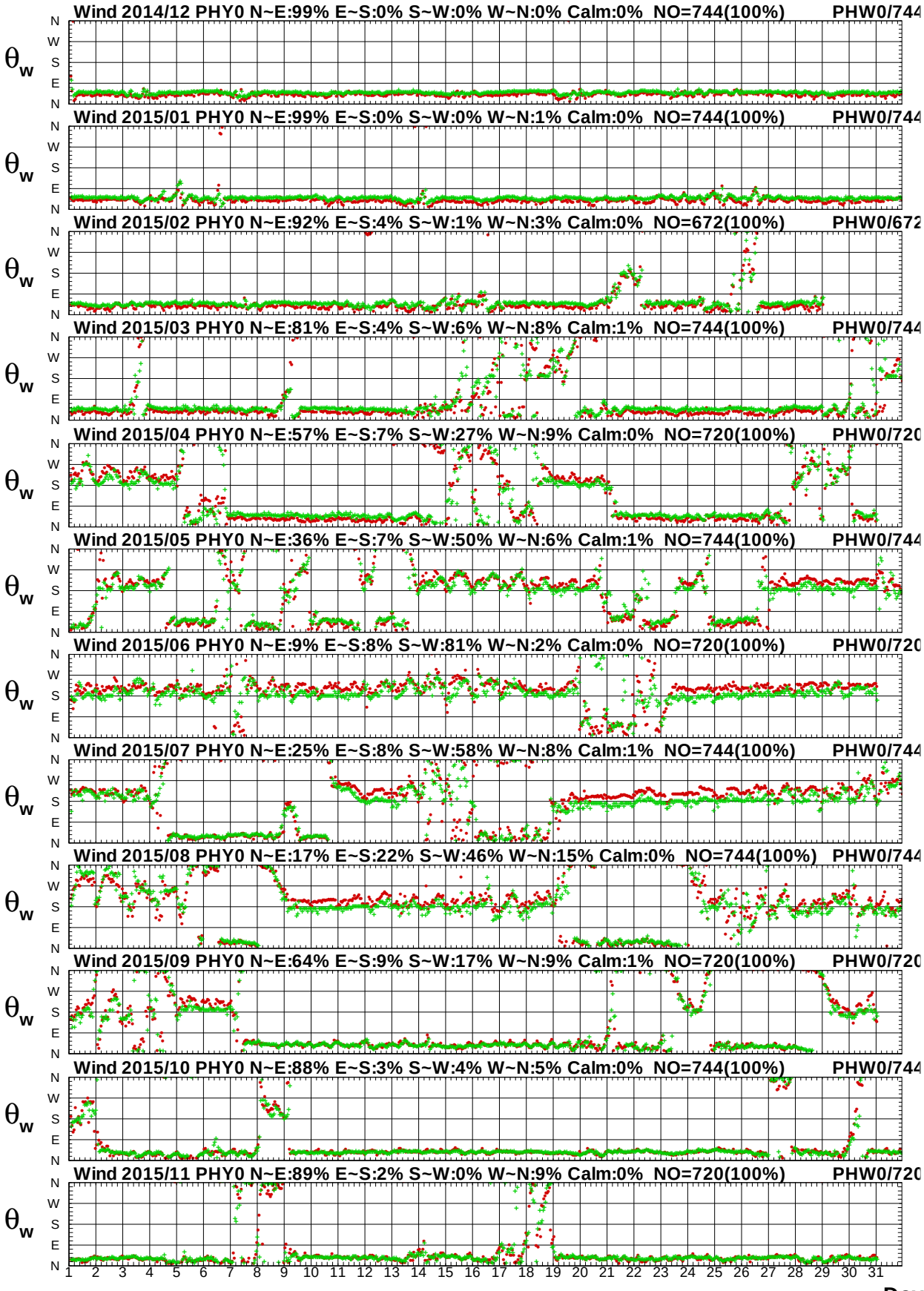

圖 10.2b　2015年每月澎湖海域 Y 站與 W 站風向比較圖

Wind Speed in Peng-Hu Seas of PHY0 at 2015

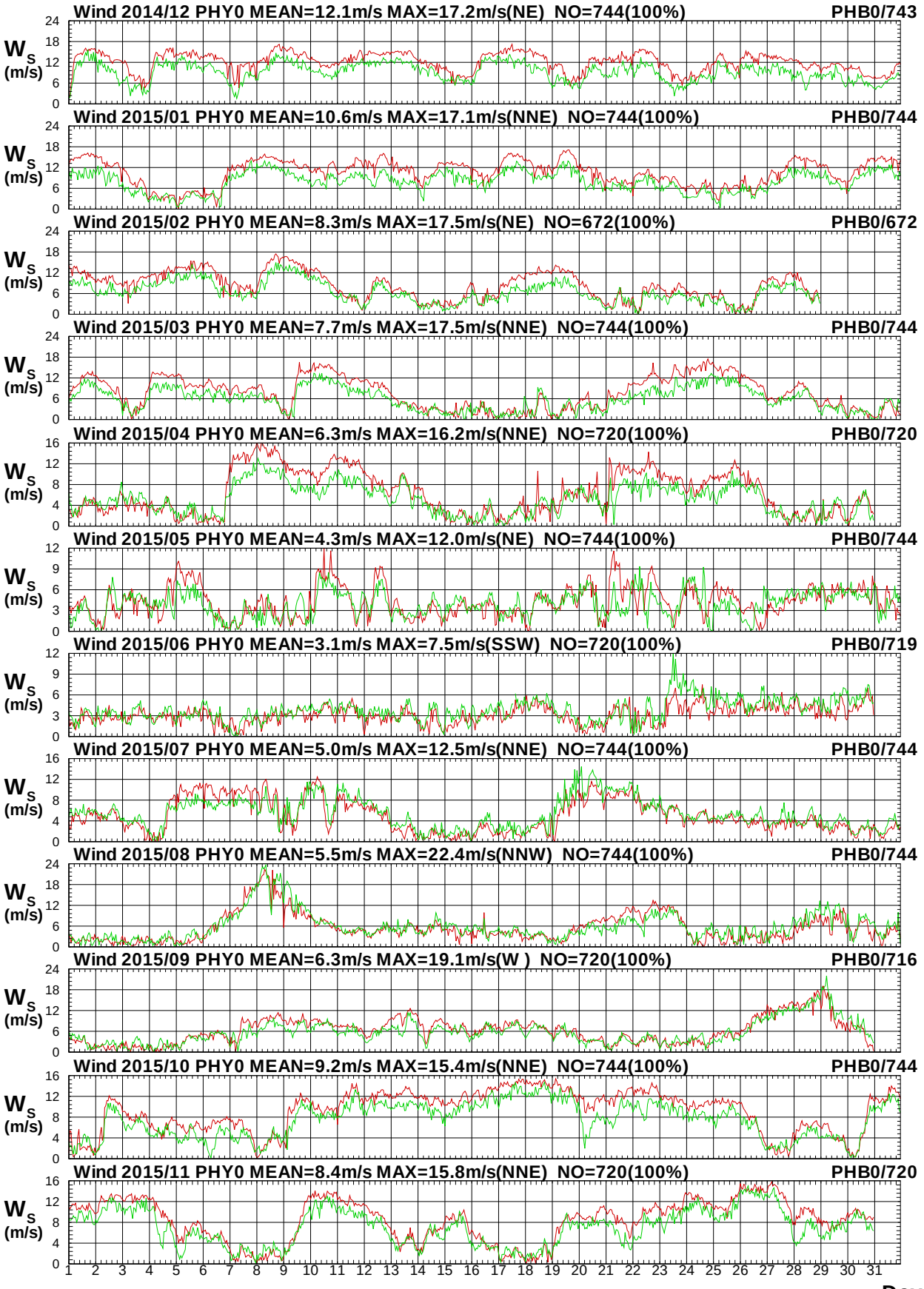

圖10.3a　2015年每月澎湖海域 Y 站與 B 站風速比較圖

W14CPHY0.1HA W14CPHB0.1H0 W151PHY0.1HA W151PHB0.1H0 W152PHY0.1HA W152PHB0.1H0
W153PHY0.1HA W153PHB0.1H0 W154PHY0.1HA W154PHB0.1H0 W155PHY0.1HA W155PHB0.1H0

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Wind Direction in Peng-Hu Seas of PHY0 at 2015

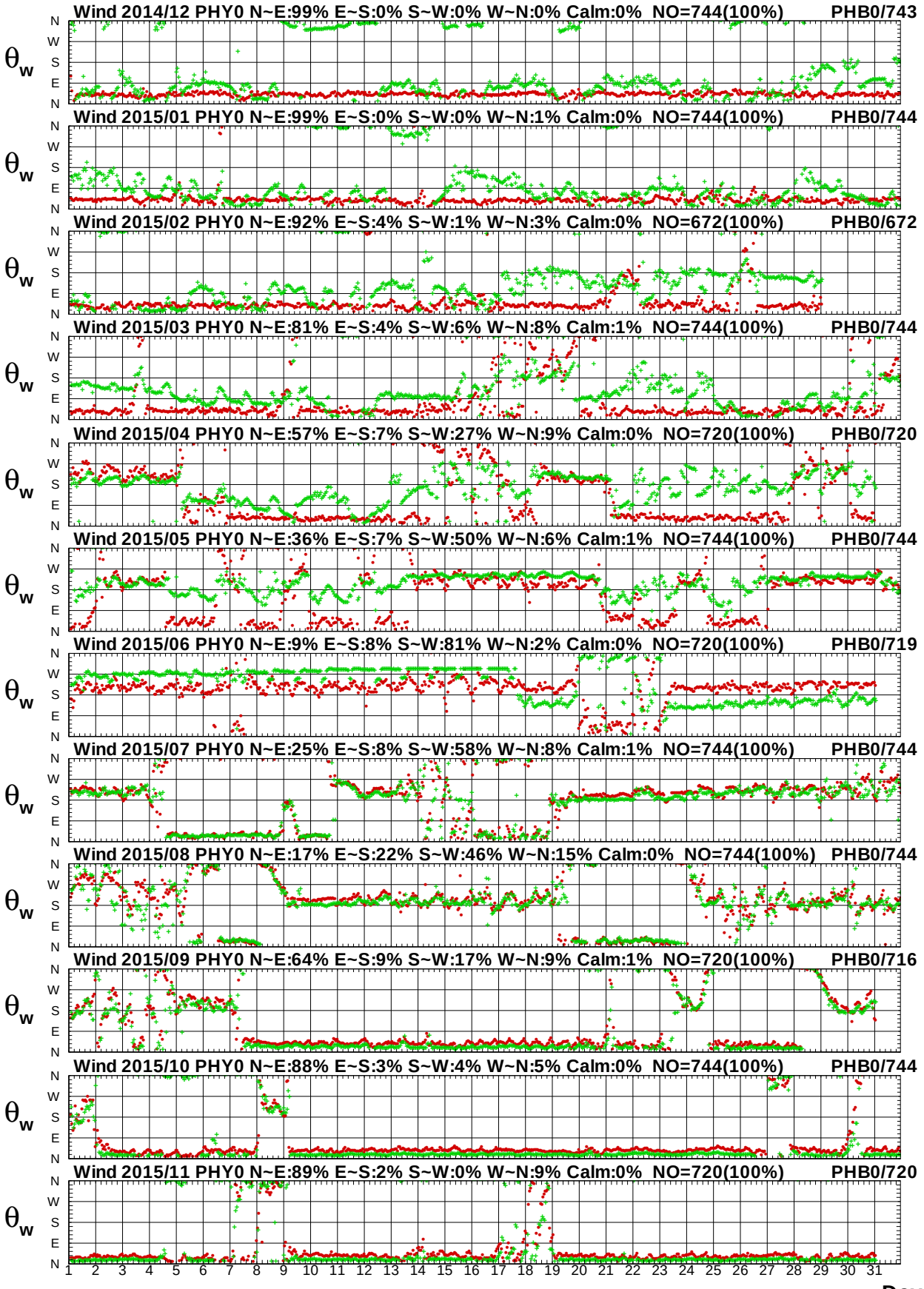

圖 10.3b　2015年每月澎湖海域 Y 站與 B 站風向比較圖

W14CPHY0.1HA W14CPHB0.1H0 W151PHY0.1HA W151PHB0.1H0 W152PHY0.1HA W152PHB0.1H0
W153PHY0.1HA W153PHB0.1H0 W154PHY0.1HA W154PHB0.1H0 W155PHY0.1HA W155PHB0.1H0

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Wind Speed in Peng-Hu Seas of PHY0 at 2015

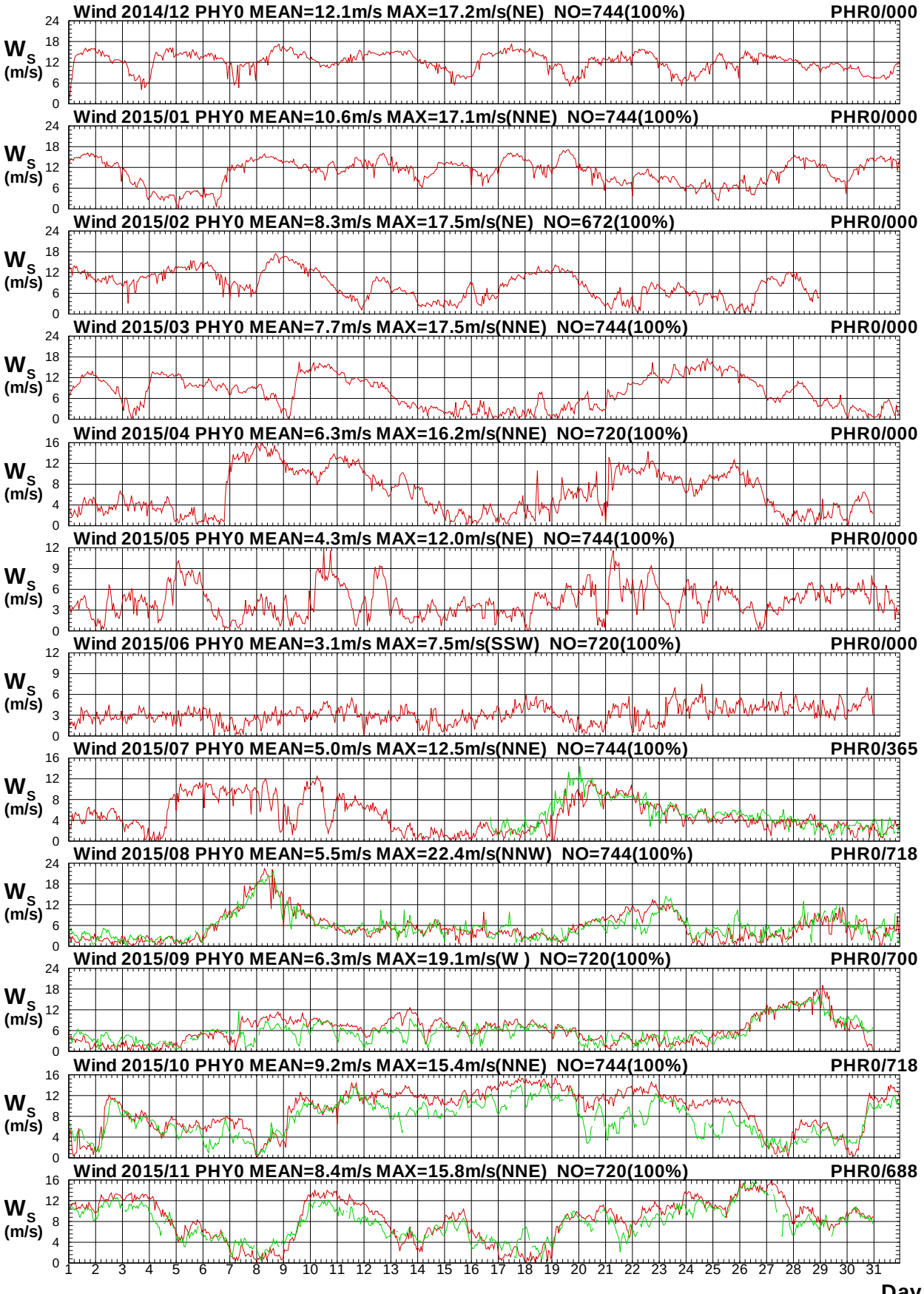

圖 10.4a　2015年每月澎湖海域 Y 站與 R 站風速比較圖

W14CPHY0.1HA W14CPHR0.1H0 W151PHY0.1HA W151PHR0.1H0 W152PHY0.1HA W152PHR0.1H0
W153PHY0.1HA W153PHR0.1H0 W154PHY0.1HA W154PHR0.1H0 W155PHY0.1HA W155PHR0.1H0

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Wind Direction in Peng-Hu Seas of PHY0 at 2015

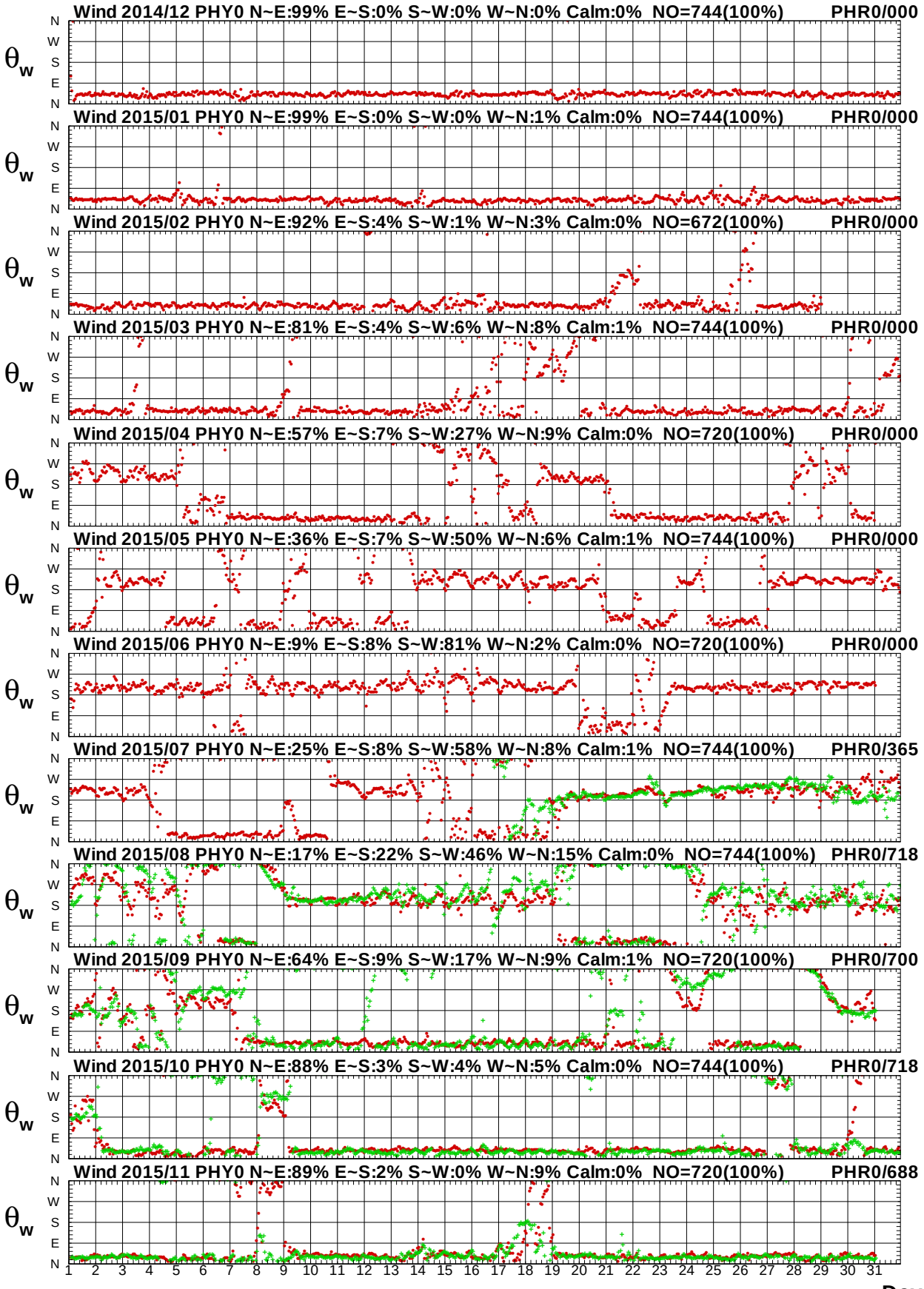

圖 10.4b　2015年每月澎湖海域 Y 站與 R 站風向比較圖

W14CPHY0.1HA W14CPHR0.1H0 W151PHY0.1HA W151PHR0.1H0 W152PHY0.1HA W152PHR0.1H0
W153PHY0.1HA W153PHR0.1H0 W154PHY0.1HA W154PHR0.1H0 W155PHY0.1HA W155PHR0.1H0

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Wind Speed in Peng-Hu Seas of PHY0 at 2015

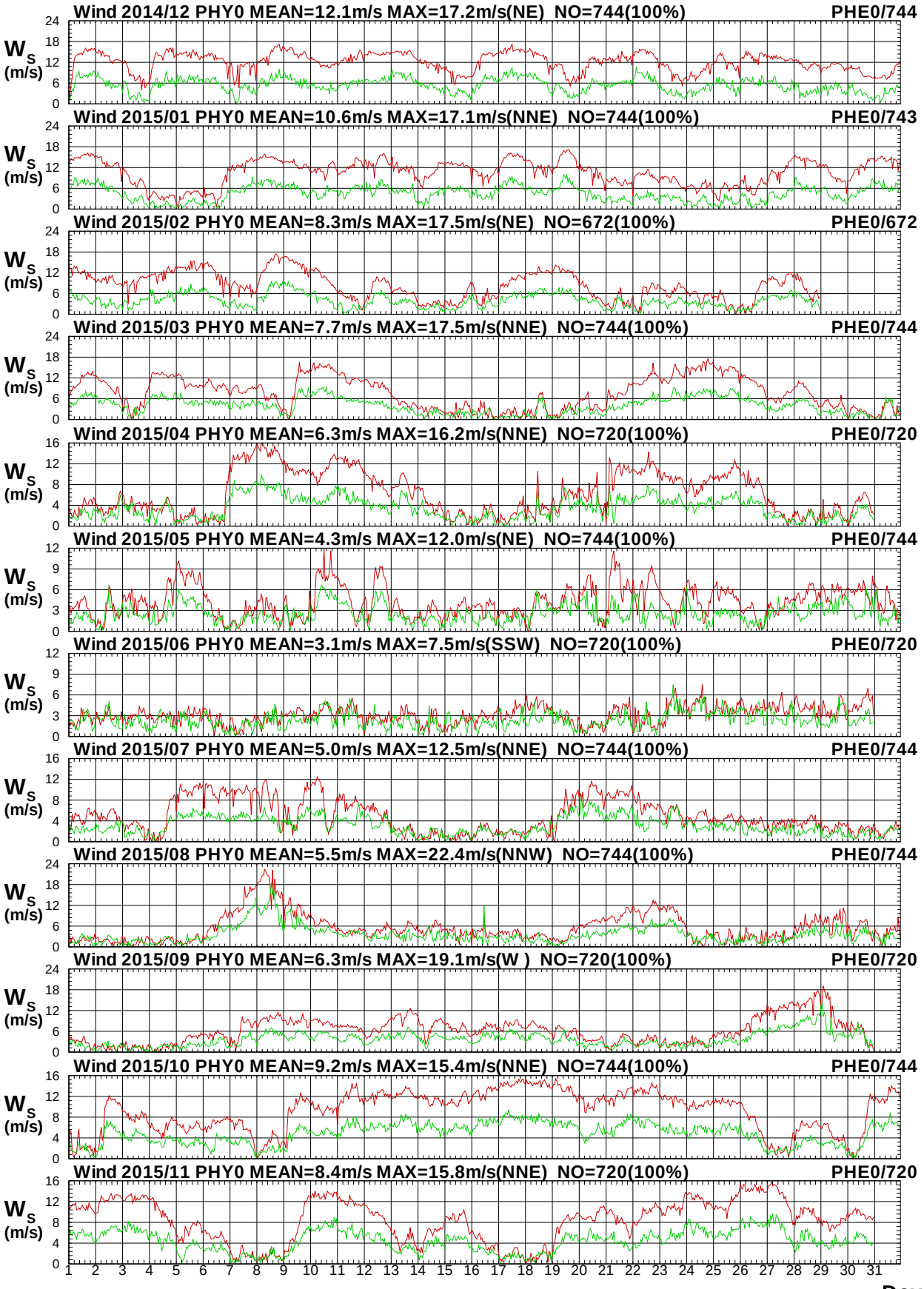

圖 10.5a　2015年每月澎湖海域 Y 站與 E 站風速比較圖

W14CPHY0.1HA W14CPHE0.1H0 W151PHY0.1HA W151PHE0.1H0 W152PHY0.1HA W152PHE0.1H0
W153PHY0.1HA W153PHE0.1H0 W154PHY0.1HA W154PHE0.1H0 W155PHY0.1HA W155PHE0.1H0

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Wind Direction in Peng-Hu Seas of PHY0 at 2015

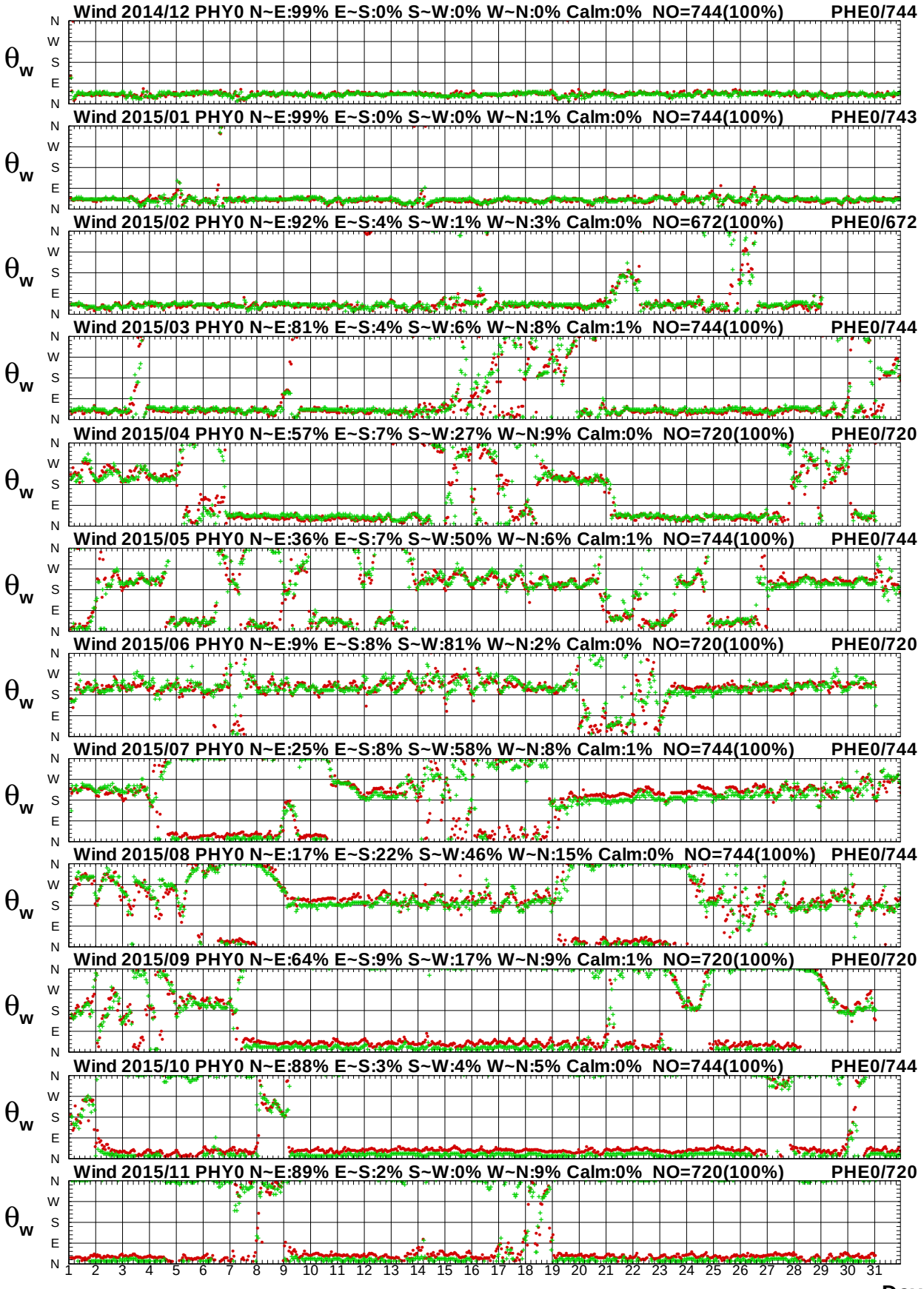

圖 10.5b　2015年每月澎湖海域 Y 站與 E 站風向比較圖

W14CPHY0.1HA W14CPHE0.1H0 W151PHY0.1HA W151PHE0.1H0 W152PHY0.1HA W152PHE0.1H0
W153PHY0.1HA W153PHE0.1H0 W154PHY0.1HA W154PHE0.1H0 W155PHY0.1HA W155PHE0.1H0

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Wind Speed in Peng-Hu Seas of PHY0 at 2015

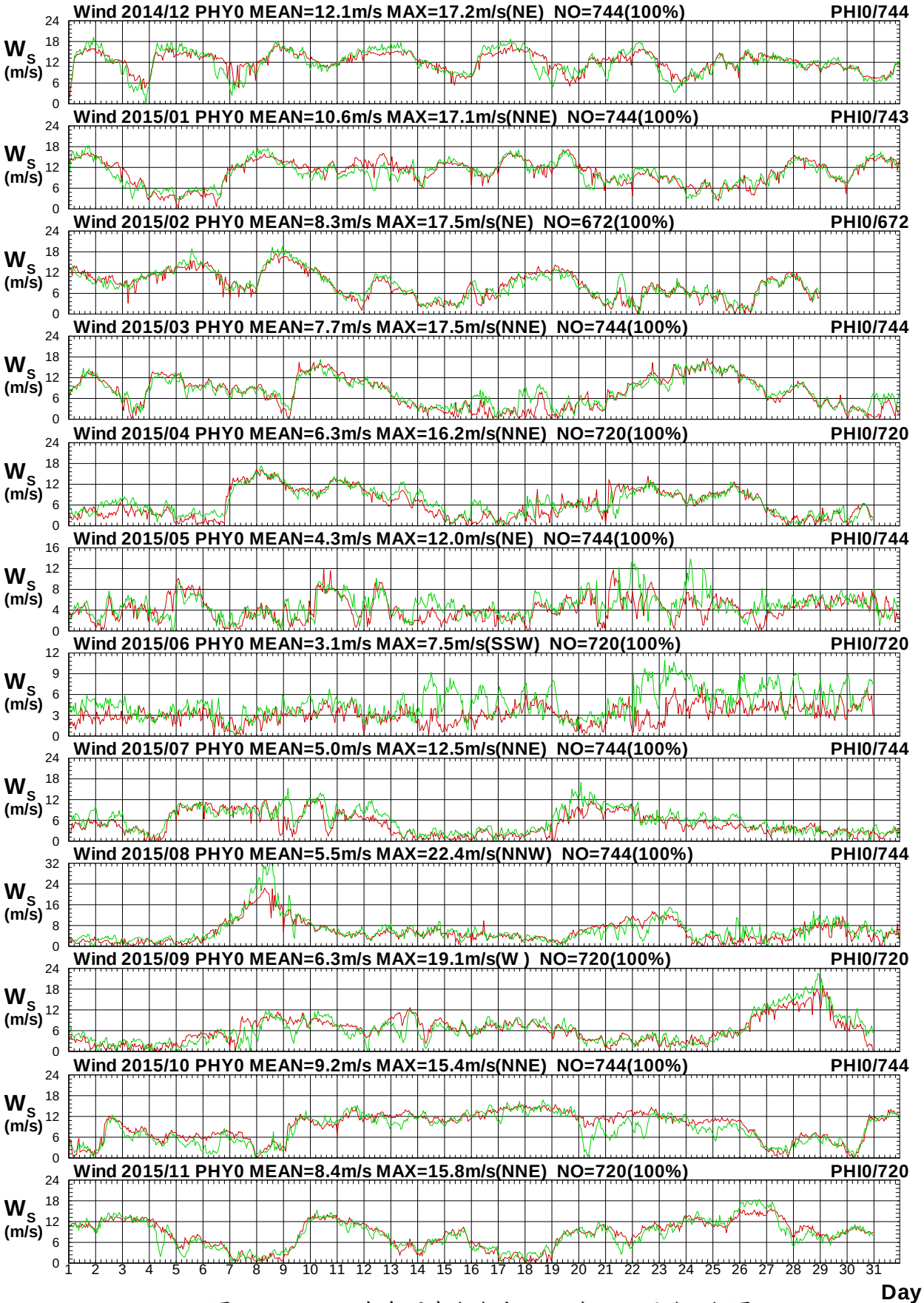

圖 10.6a　2015年每月澎湖海域 Y 站與 I 站風速比較圖

W14CPHY0.1HA W14CPHI0.1H0 W151PHY0.1HA W151PHI0.1H0 W152PHY0.1HA W152PHI0.1H0
W153PHY0.1HA W153PHI0.1H0 W154PHY0.1HA W154PHI0.1H0 W155PHY0.1HA W155PHI0.1H0

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Wind Direction in Peng-Hu Seas of PHY0 at 2015

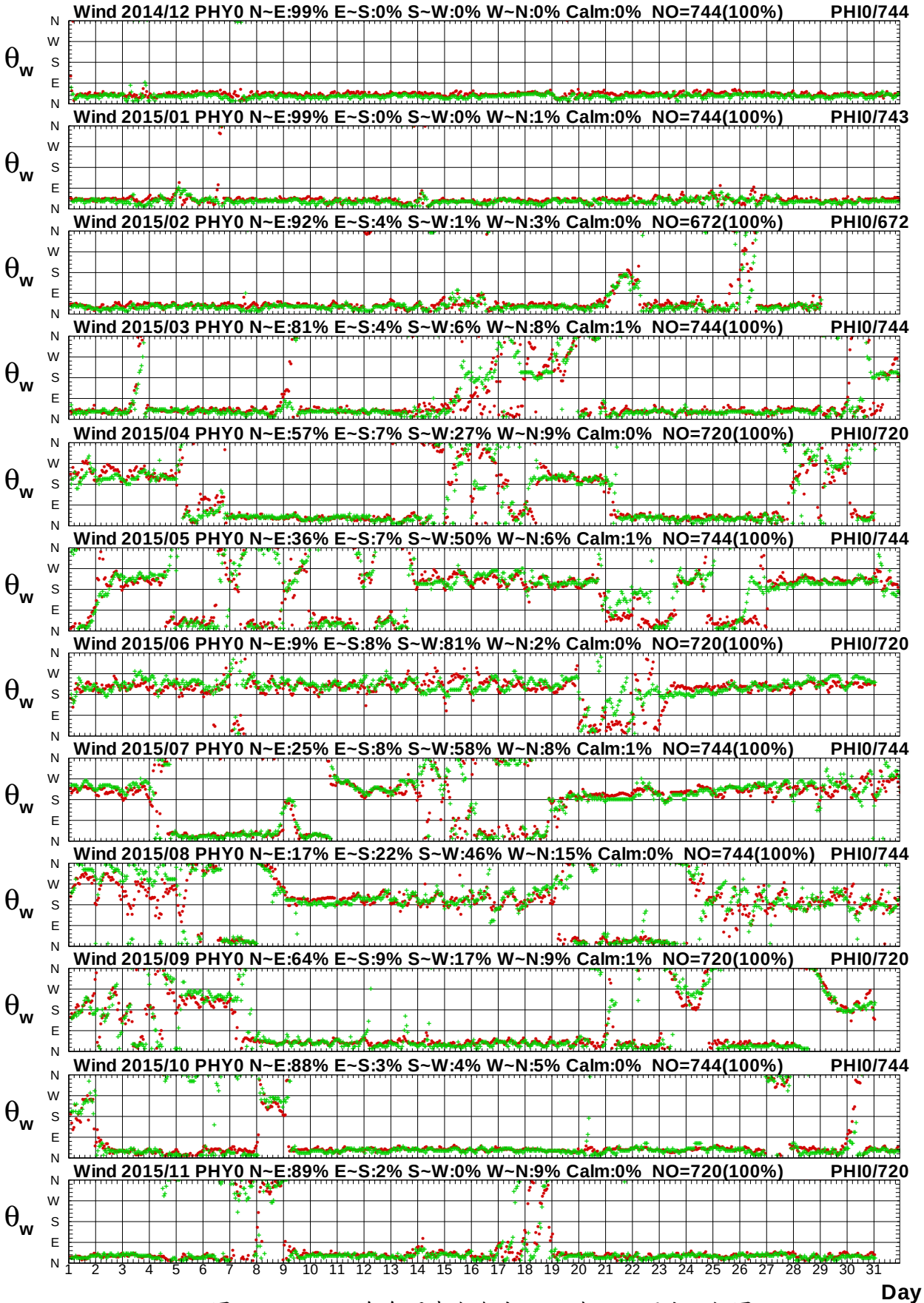

圖10.6b　2015年每月澎湖海域 Y 站與 I 站風向比較圖

W14CPHY0.1HA W14CPHI0.1H0 W151PHY0.1HA W151PHI0.1H0 W152PHY0.1HA W152PHI0.1H0
W153PHY0.1HA W153PHI0.1H0 W154PHY0.1HA W154PHI0.1H0 W155PHY0.1HA W155PHI0.1H0

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Wind Speed in Peng-Hu Seas of PHY0 at 2015

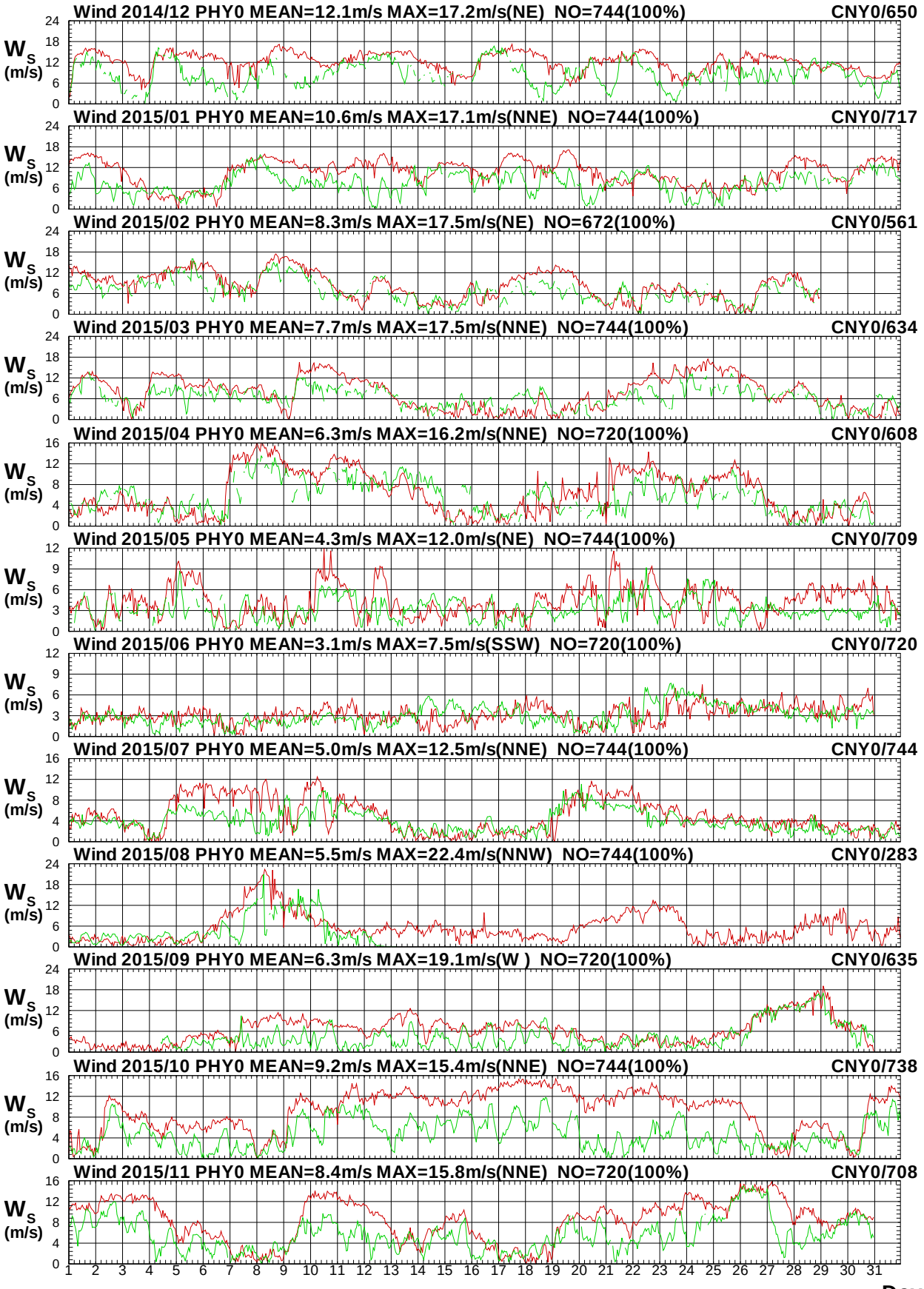

圖10.7a　2015年每月澎湖海域 Y 站與嘉南海域 Y 站風速圖

W14CPHY0.1HA W14CCNY0.1H0 W151PHY0.1HA W151CNY0.1H0 W152PHY0.1HA W152CNY0.1H0
W153PHY0.1HA W153CNY0.1H0 W154PHY0.1HA W154CNY0.1H0 W155PHY0.1HA W155CNY0.1H0

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Wind Direction in Peng-Hu Seas of PHY0 at 2015

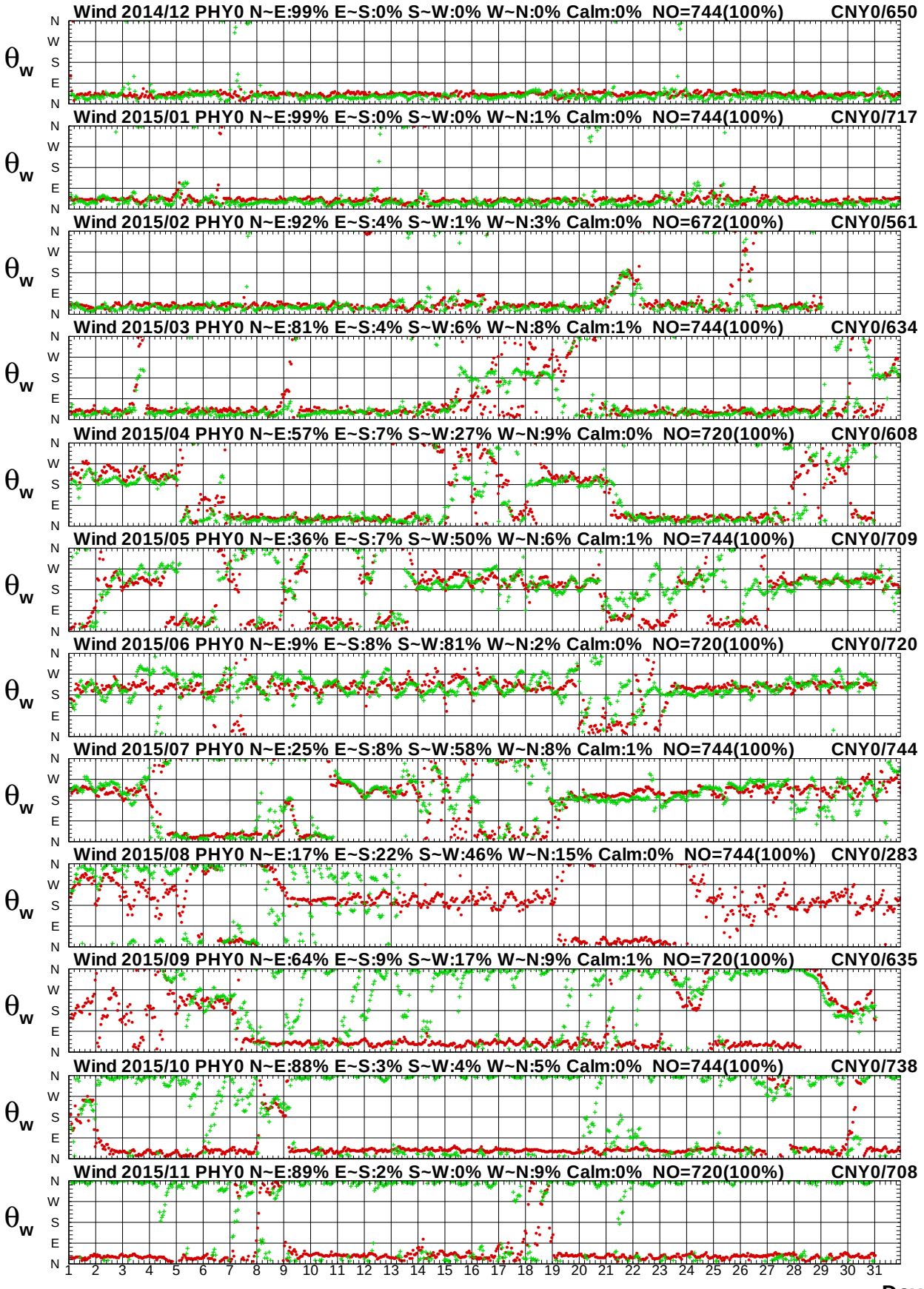

圖 10.7b　2015年每月澎湖海域 Y 站與嘉南海域 Y 站風向圖

W14CPHY0.1HA W14CCNY0.1H0 W151PHY0.1HA W151CNY0.1H0 W152PHY0.1HA W152CNY0.1H0
W153PHY0.1HA W153CNY0.1H0 W154PHY0.1HA W154CNY0.1H0 W155PHY0.1HA W155CNY0.1H0

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Wind Speed in Peng-Hu Seas of PHY0 at 2015

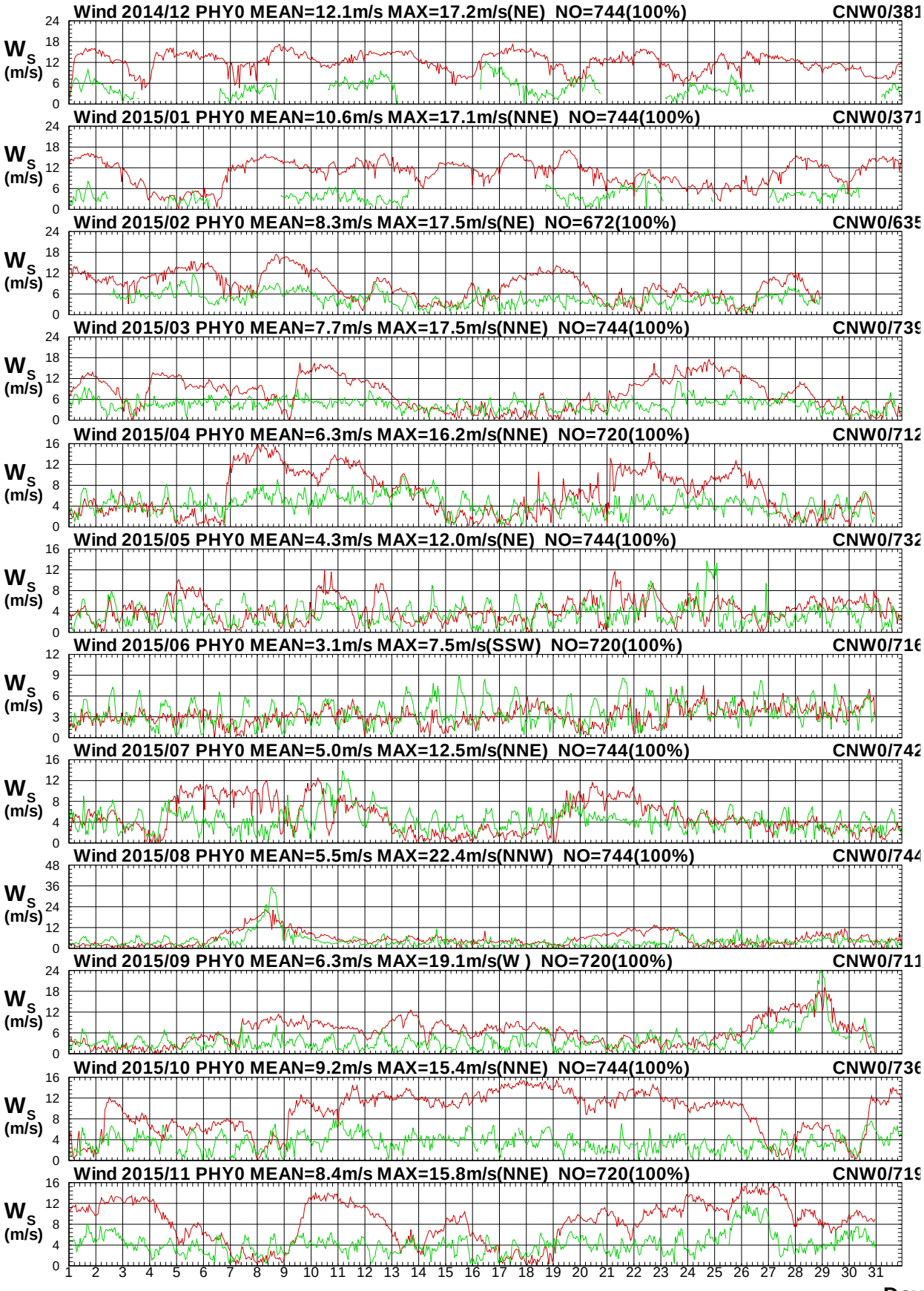

圖 10.8a　2015年每月澎湖海域 Y 站與嘉南海域 W 站風速圖

W14CPHY0.1HA W14CCNW0.1H0 W151PHY0.1HA W151CNW0.1H0 W152PHY0.1HA W152CNW0.1H0
W153PHY0.1HA W153CNW0.1H0 W154PHY0.1HA W154CNW0.1H0 W155PHY0.1HA W155CNW0.1H0

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Wind Direction in Peng-Hu Seas of PHY0 at 2015

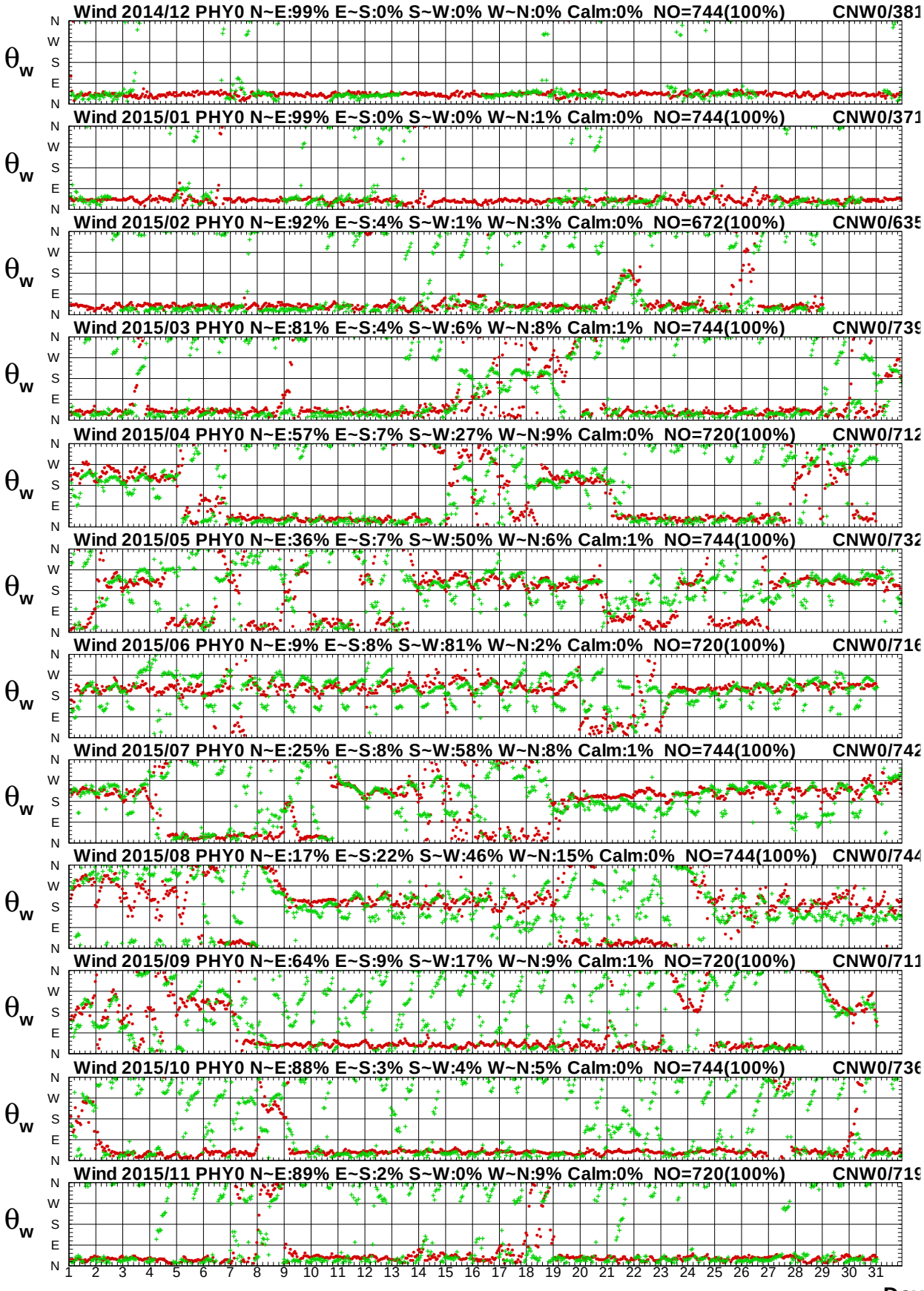

圖 10.8b　2015年每月澎湖海域 Y 站與嘉南海域 W 站風向圖

W14CPHY0.1HA W14CCNW0.1H0 W151PHY0.1HA W151CNW0.1H0 W152PHY0.1HA W152CNW0.1H0
W153PHY0.1HA W153CNW0.1H0 W154PHY0.1HA W154CNW0.1H0 W155PHY0.1HA W155CNW0.1H0

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Wind Speed in Peng-Hu Seas of PHY0 at 2015

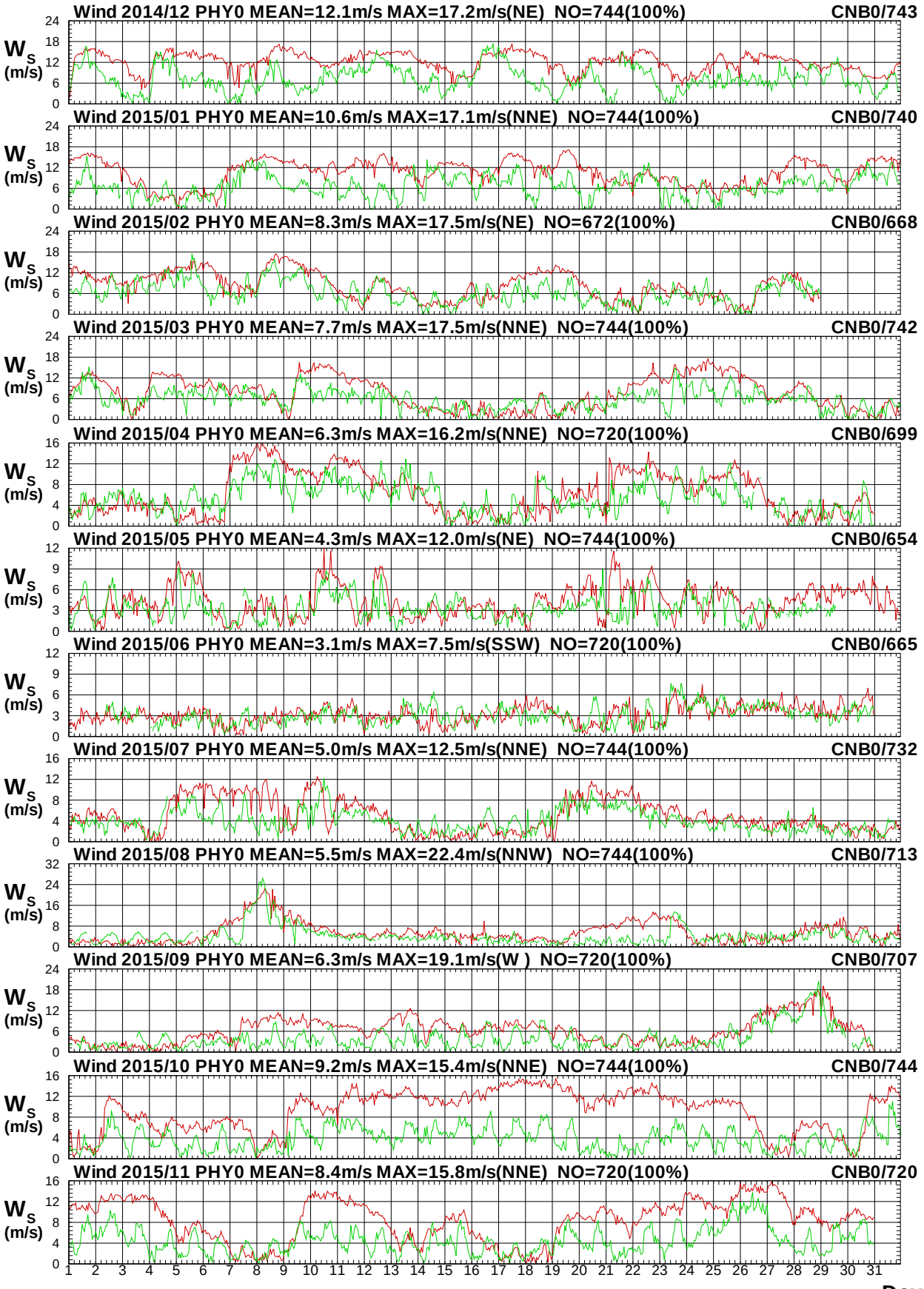

圖 10.9a　2015年每月澎湖海域 Y 站與嘉南海域 B 站風速圖

W14CPHY0.1HA W14CCNB0.1H0 W151PHY0.1HA W151CNB0.1H0 W152PHY0.1HA W152CNB0.1H0
W153PHY0.1HA W153CNB0.1H0 W154PHY0.1HA W154CNB0.1H0 W155PHY0.1HA W155CNB0.1H0

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Wind Direction in Peng-Hu Seas of PHY0 at 2015

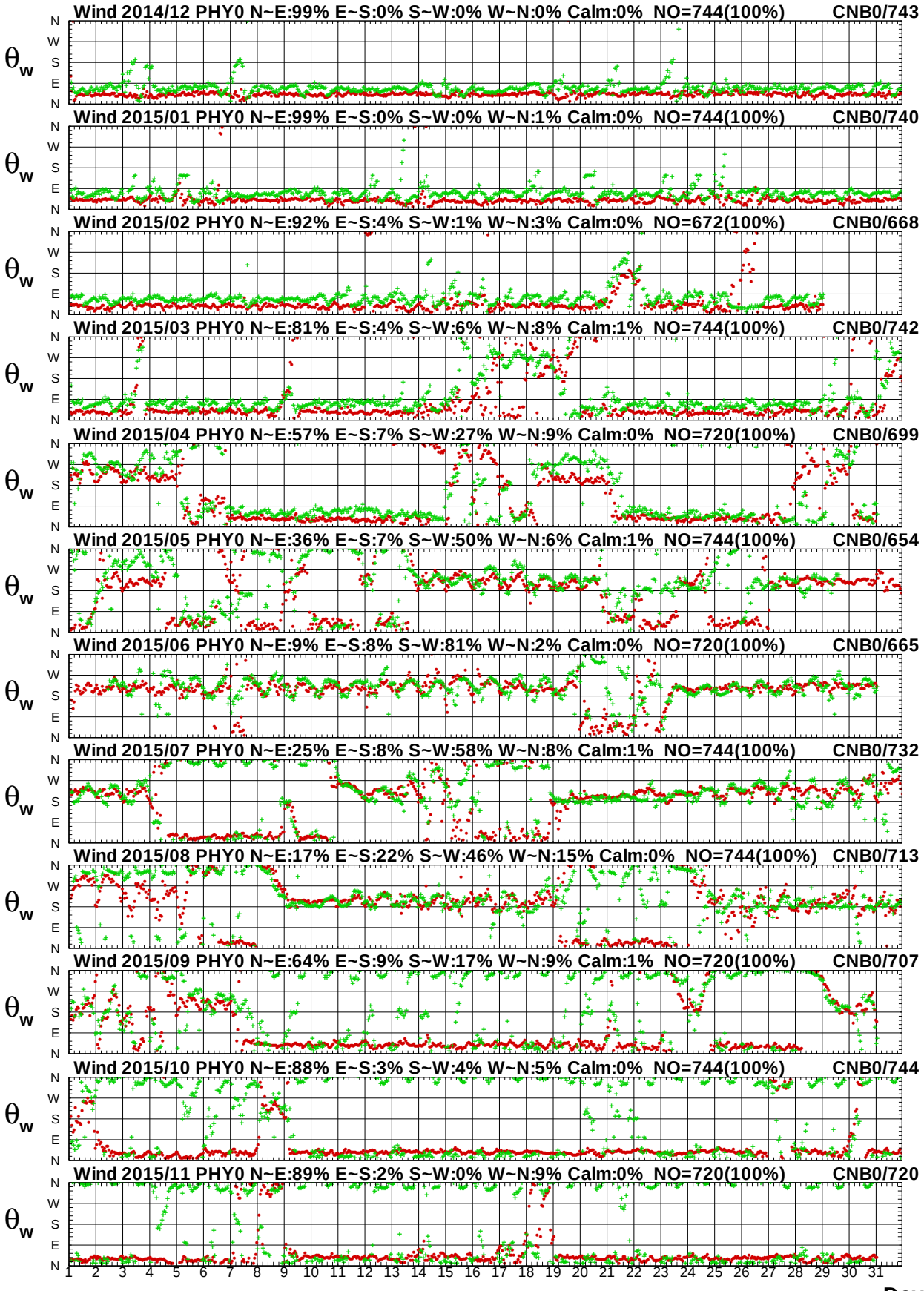

圖 10.9b　2015年每月澎湖海域 Y 站與嘉南海域 B 站風向圖

W14CPHY0.1HA W14CCNB0.1H0 W151PHY0.1HA W151CNB0.1H0 W152PHY0.1HA W152CNB0.1H0
W153PHY0.1HA W153CNB0.1H0 W154PHY0.1HA W154CNB0.1H0 W155PHY0.1HA W155CNB0.1H0

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Wind Speed in Peng-Hu Seas of PHY0 at 2015

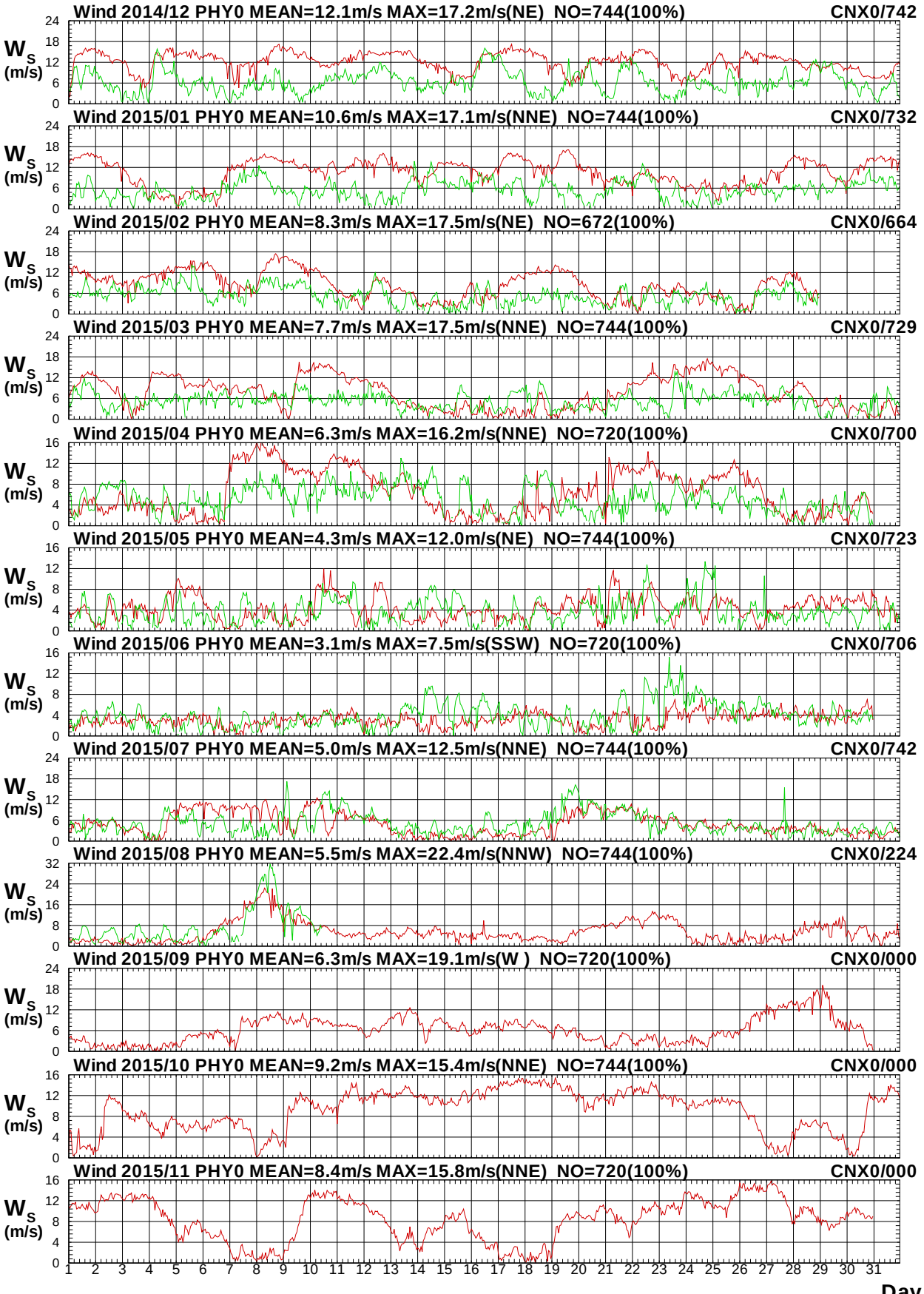

圖 10.10a　2015年每月澎湖海域 Y 站與嘉南海域 X 站風速圖

W14CPHY0.1HA W14CCNX0.1H0 W151PHY0.1HA W151CNX0.1H0 W152PHY0.1HA W152CNX0.1H0
W153PHY0.1HA W153CNX0.1H0 W154PHY0.1HA W154CNX0.1H0 W155PHY0.1HA W155CNX0.1H0

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Wind Direction in Peng-Hu Seas of PHY0 at 2015

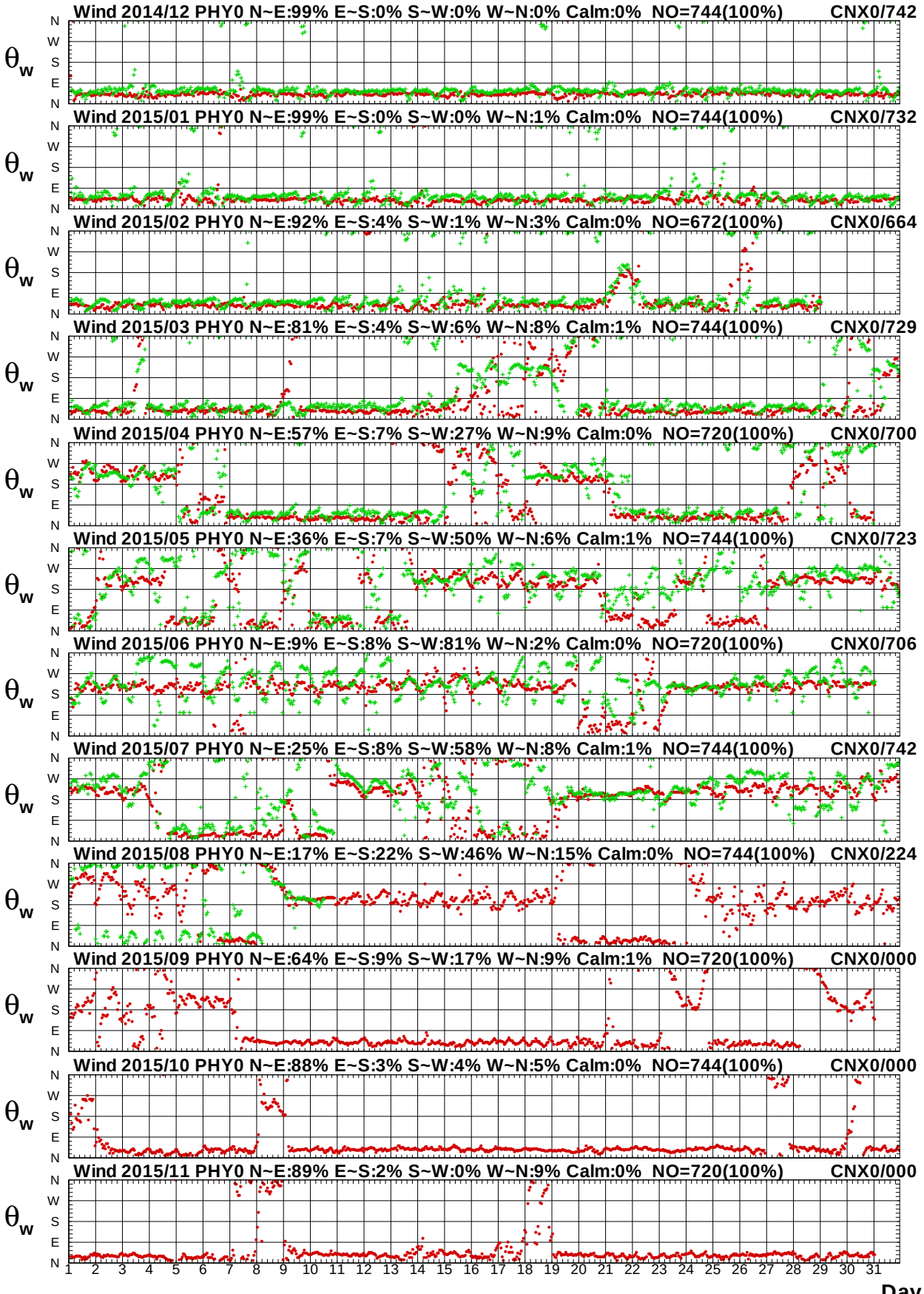

圖 10.10b　2015年每月澎湖海域 Y 站與嘉南海域 X 站風向圖

W14CPHY0.1HA W14CCNX0.1H0 W151PHY0.1HA W151CNX0.1H0 W152PHY0.1HA W152CNX0.1H0
W153PHY0.1HA W153CNX0.1H0 W154PHY0.1HA W154CNX0.1H0 W155PHY0.1HA W155CNX0.1H0

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Wind Speed in Peng-Hu Seas of PHY0 at 2015

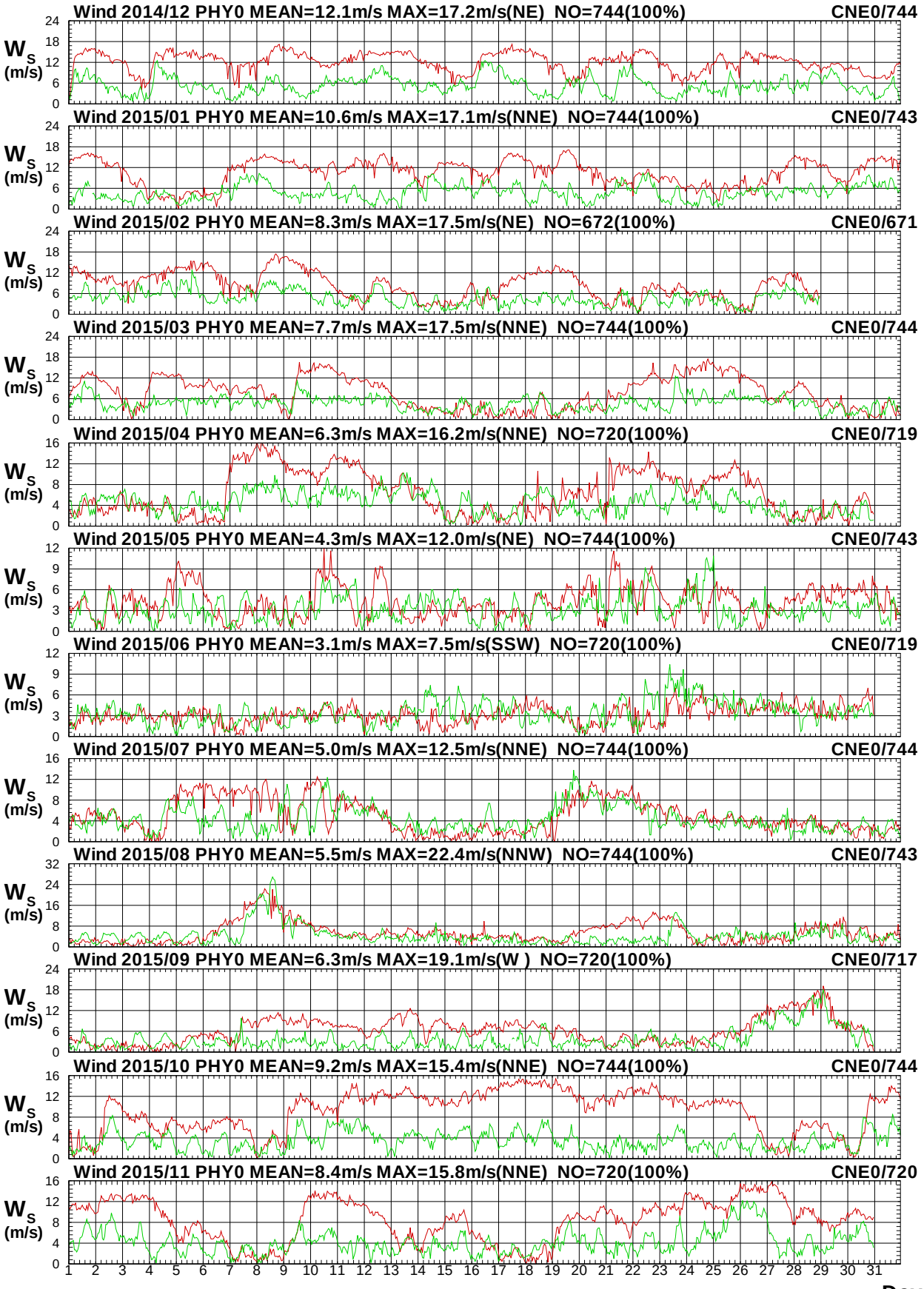

圖 10.11a　2015年每月澎湖海域 Y 站與嘉南海域 E 站風速圖

W14CPHY0.1HA W14CCNE0.1H0 W151PHY0.1HA W151CNE0.1H0 W152PHY0.1HA W152CNE0.1H0
W153PHY0.1HA W153CNE0.1H0 W154PHY0.1HA W154CNE0.1H0 W155PHY0.1HA W155CNE0.1H0

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Wind Direction in Peng-Hu Seas of PHY0 at 2015

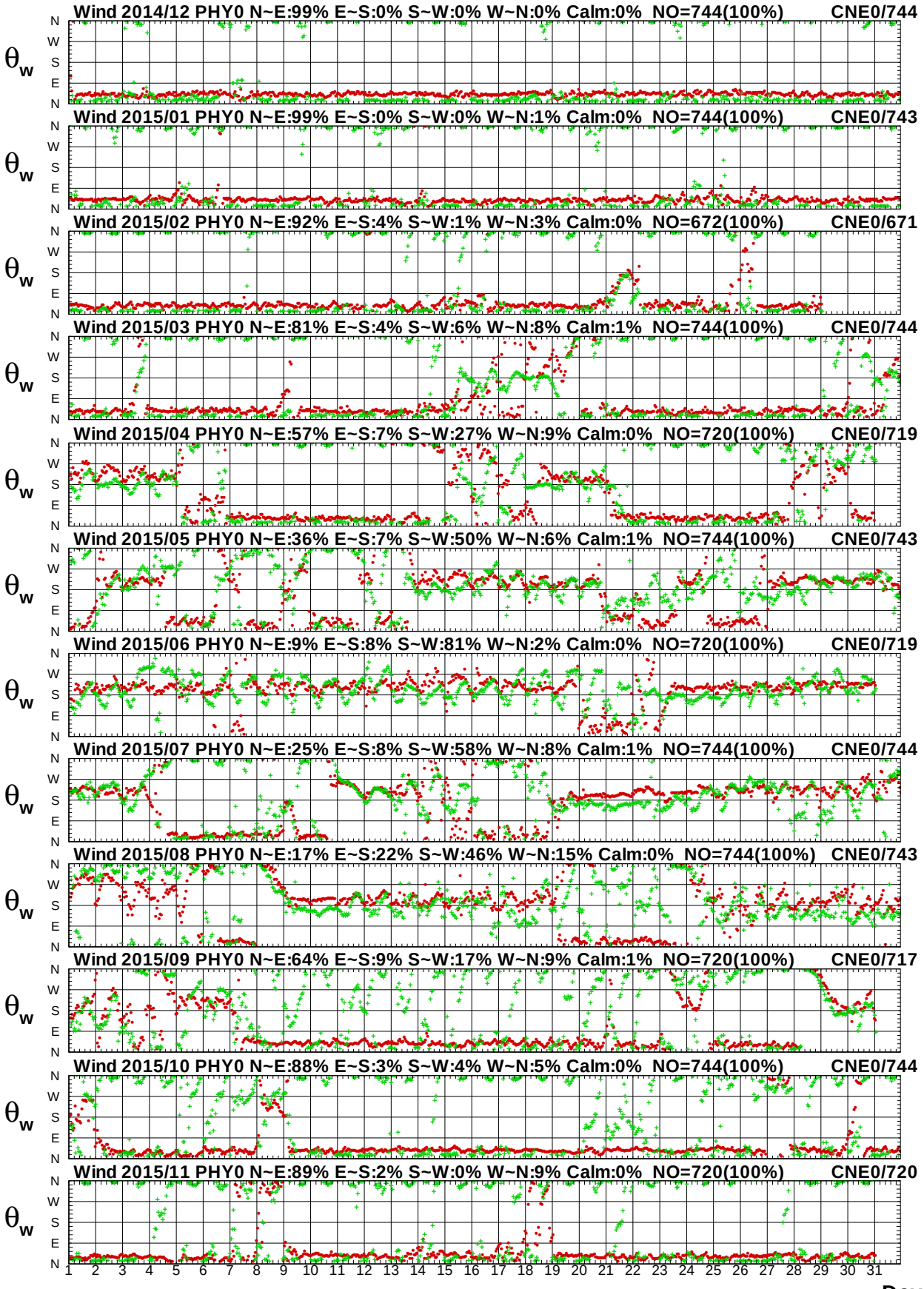

圖 10.11b　2015年每月澎湖海域 Y 站與嘉南海域 E 站風向圖

W14CPHY0.1HA W14CCNE0.1H0 W151PHY0.1HA W151CNE0.1H0 W152PHY0.1HA W152CNE0.1H0
W153PHY0.1HA W153CNE0.1H0 W154PHY0.1HA W154CNE0.1H0 W155PHY0.1HA W155CNE0.1H0

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Wind Speed in Peng-Hu Seas of PHY0 at 2015

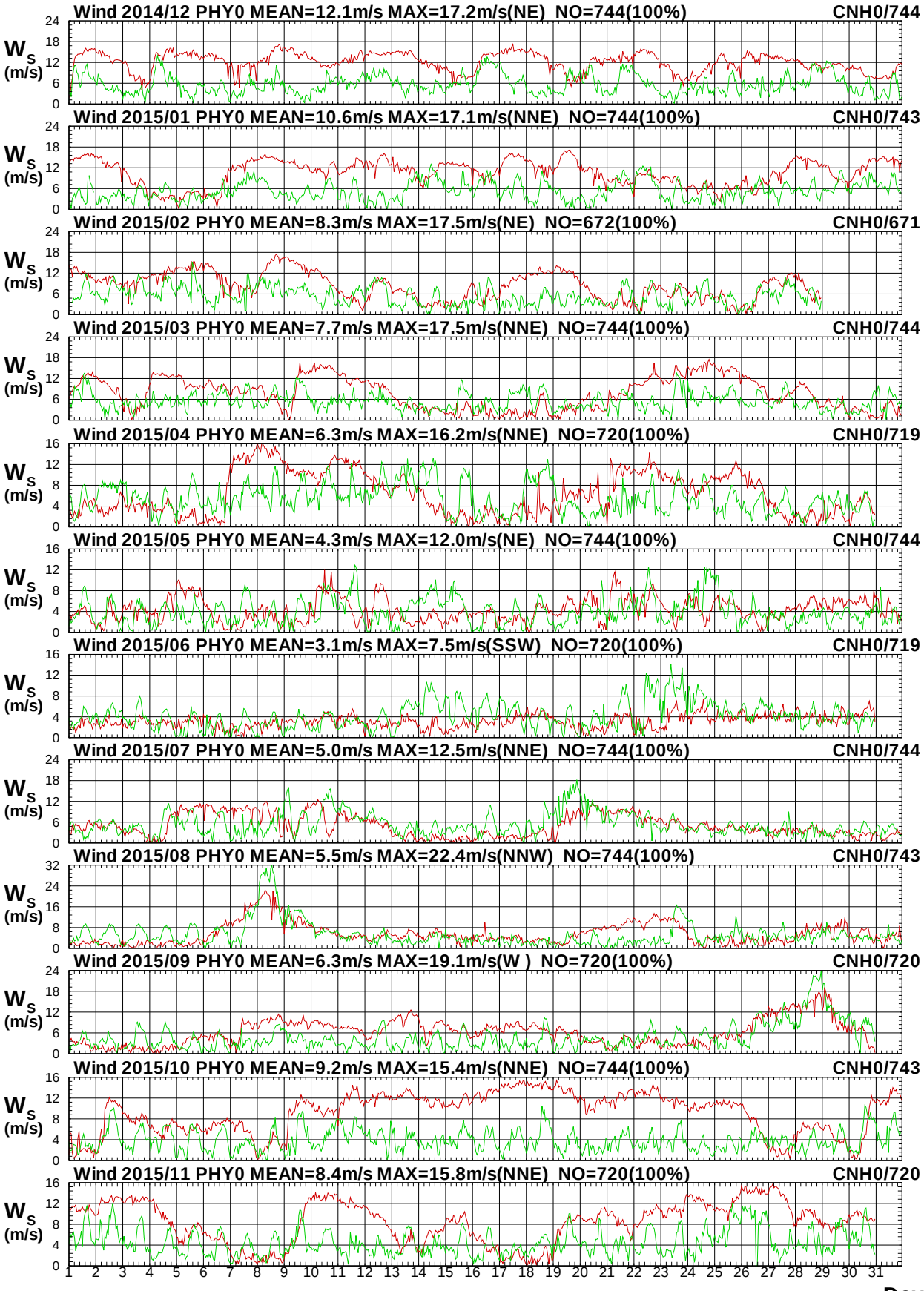

圖 10.12a　2015年每月澎湖海域 Y 站與嘉南海域 H 站風速圖

W14CPHY0.1HA W14CCNH0.1H0 W151PHY0.1HA W151CNH0.1H0 W152PHY0.1HA W152CNH0.1H0
W153PHY0.1HA W153CNH0.1H0 W154PHY0.1HA W154CNH0.1H0 W155PHY0.1HA W155CNH0.1H0

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Wind Direction in Peng-Hu Seas of PHY0 at 2015

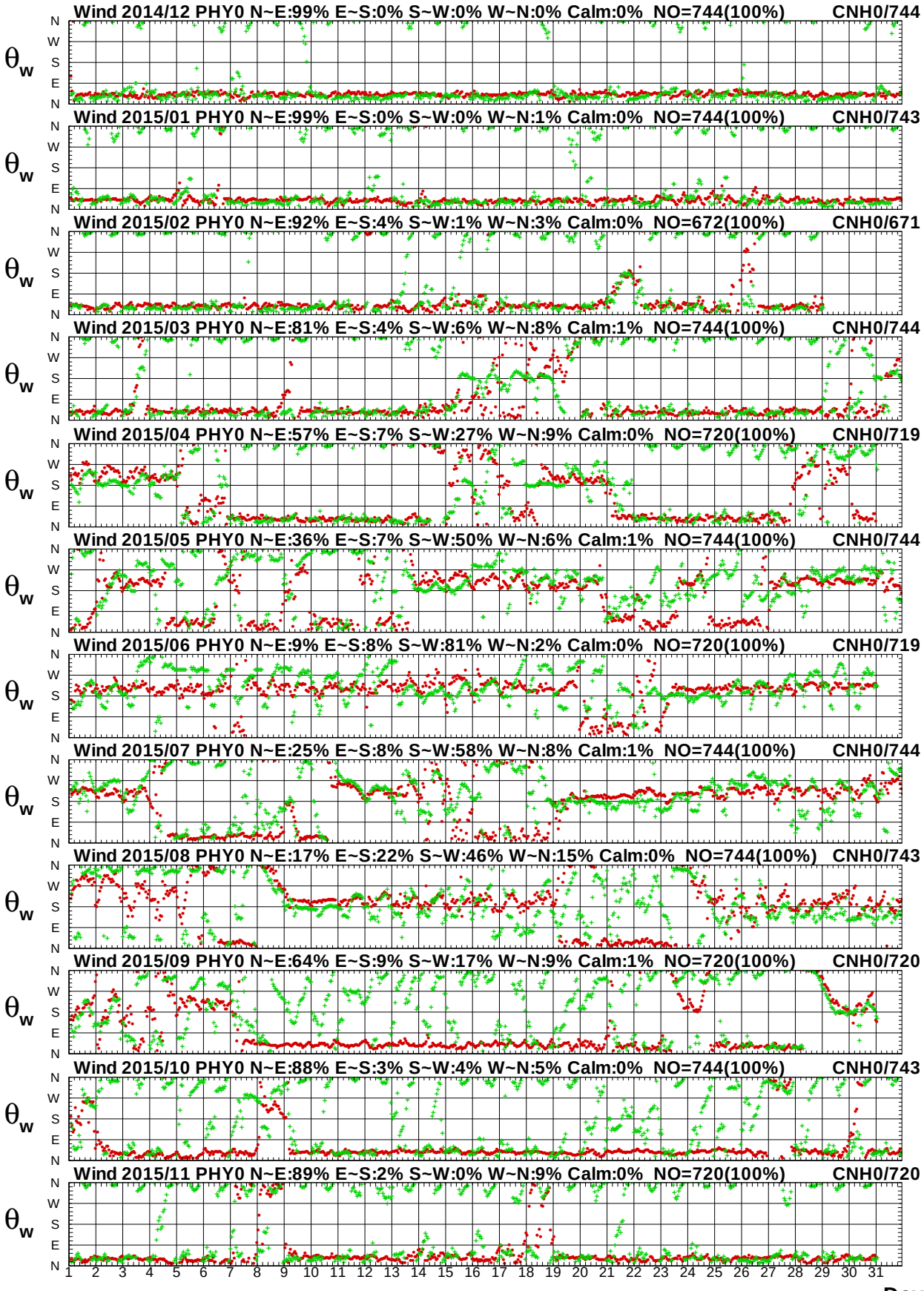

圖 10.12b　2015年每月澎湖海域 Y 站與嘉南海域 H 站風向圖

W14CPHY0.1HA W14CCNH0.1H0 W151PHY0.1HA W151CNH0.1H0 W152PHY0.1HA W152CNH0.1H0
W153PHY0.1HA W153CNH0.1H0 W154PHY0.1HA W154CNH0.1H0 W155PHY0.1HA W155CNH0.1H0

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Wind Speed in Peng-Hu Seas of PHY0 at 2015

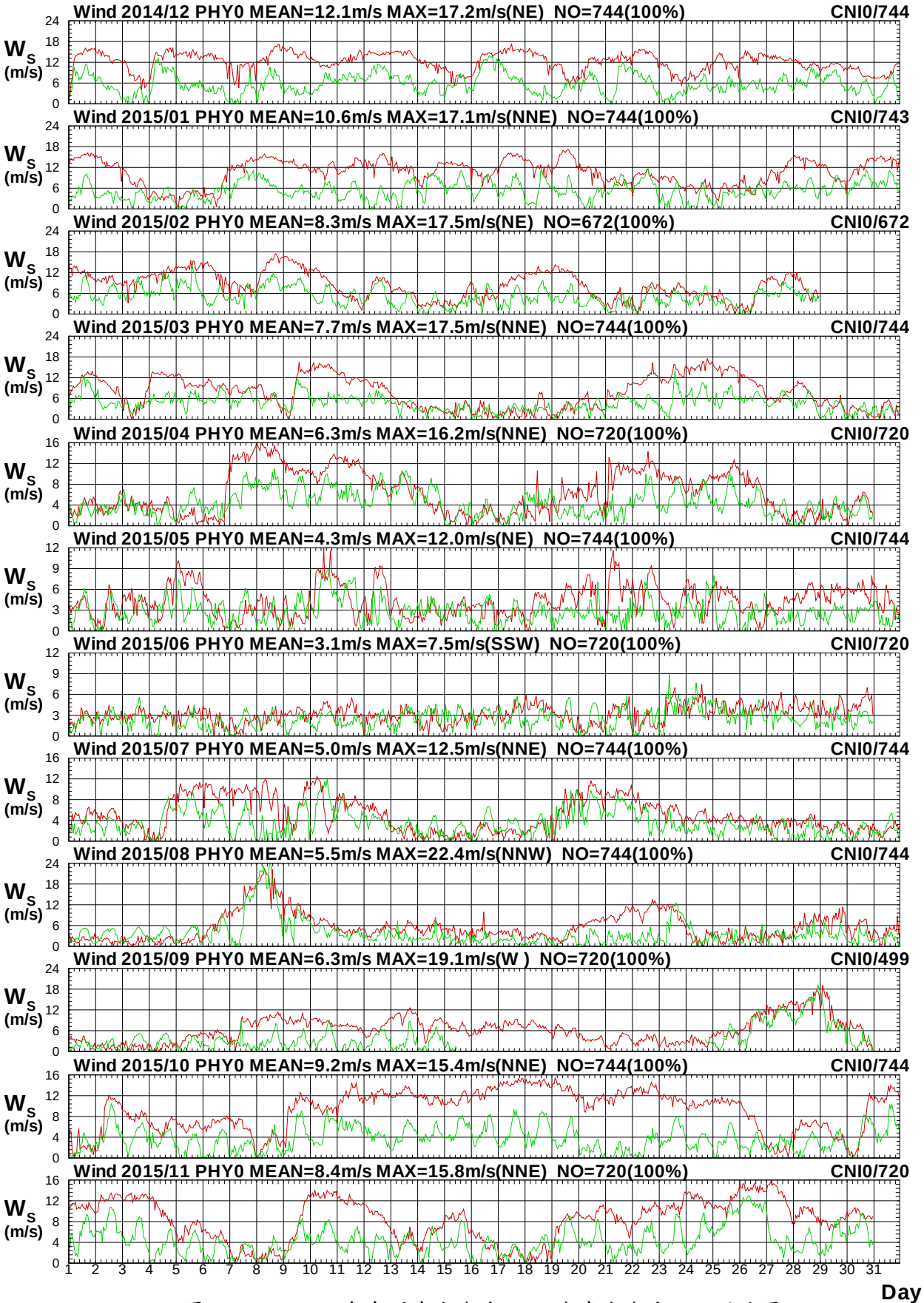

圖 10.13a　2015年每月澎湖海域 Y 站與嘉南海域 I 站風速圖

W14CPHY0.1HA W14CCNI0.1H0 W151PHY0.1HA W151CNI0.1H0 W152PHY0.1HA W152CNI0.1H0
W153PHY0.1HA W153CNI0.1H0 W154PHY0.1HA W154CNI0.1H0 W155PHY0.1HA W155CNI0.1H0

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Wind Direction in Peng-Hu Seas of PHY0 at 2015

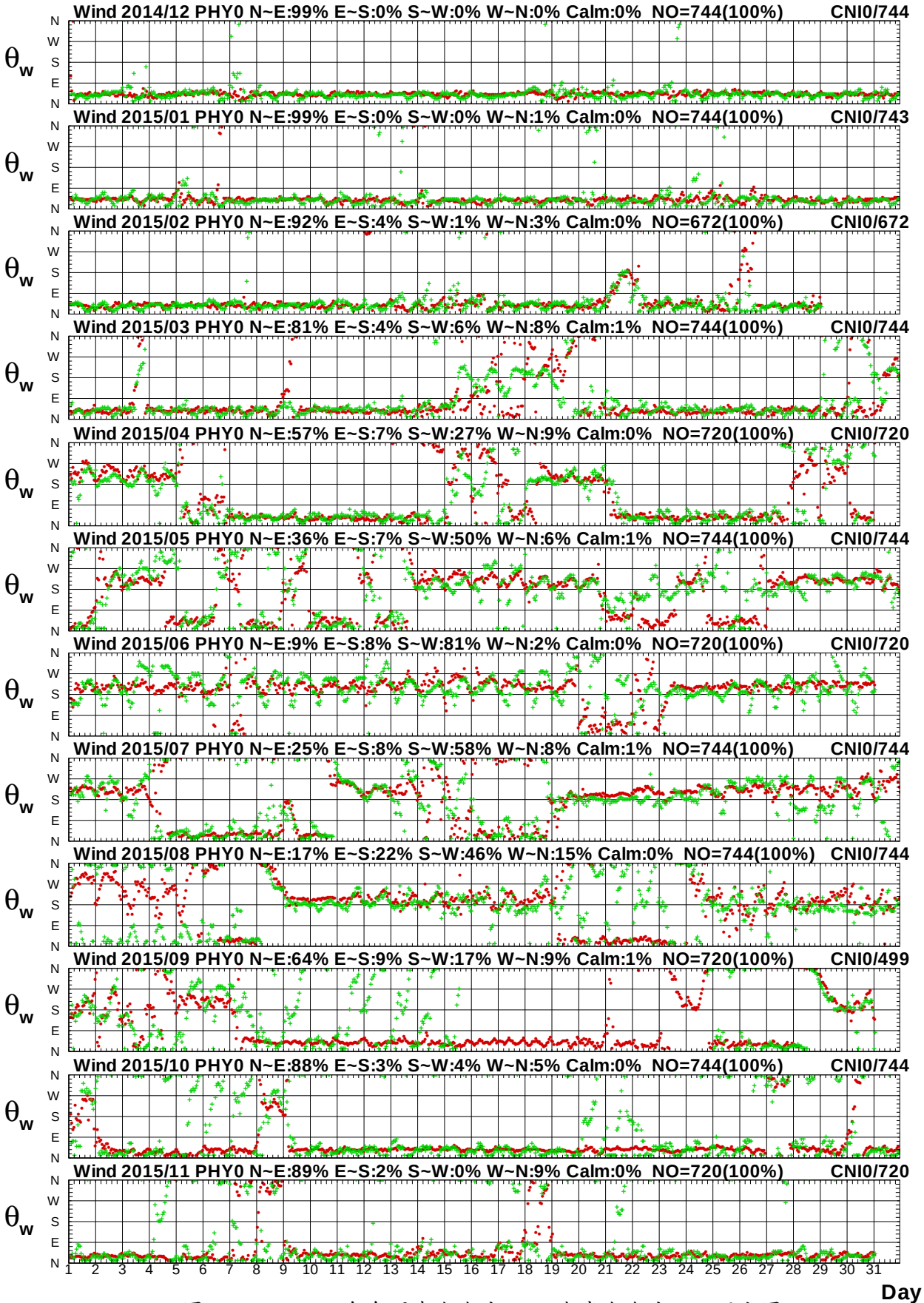

圖 10.13b　2015年每月澎湖海域 Y 站與嘉南海域 I 站風向圖

W14CPHY0.1HA W14CCNI0.1H0 W151PHY0.1HA W151CNI0.1H0 W152PHY0.1HA W152CNI0.1H0
W153PHY0.1HA W153CNI0.1H0 W154PHY0.1HA W154CNI0.1H0 W155PHY0.1HA W155CNI0.1H0

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Wind Speed in Peng-Hu Seas of PHY0 at 2015

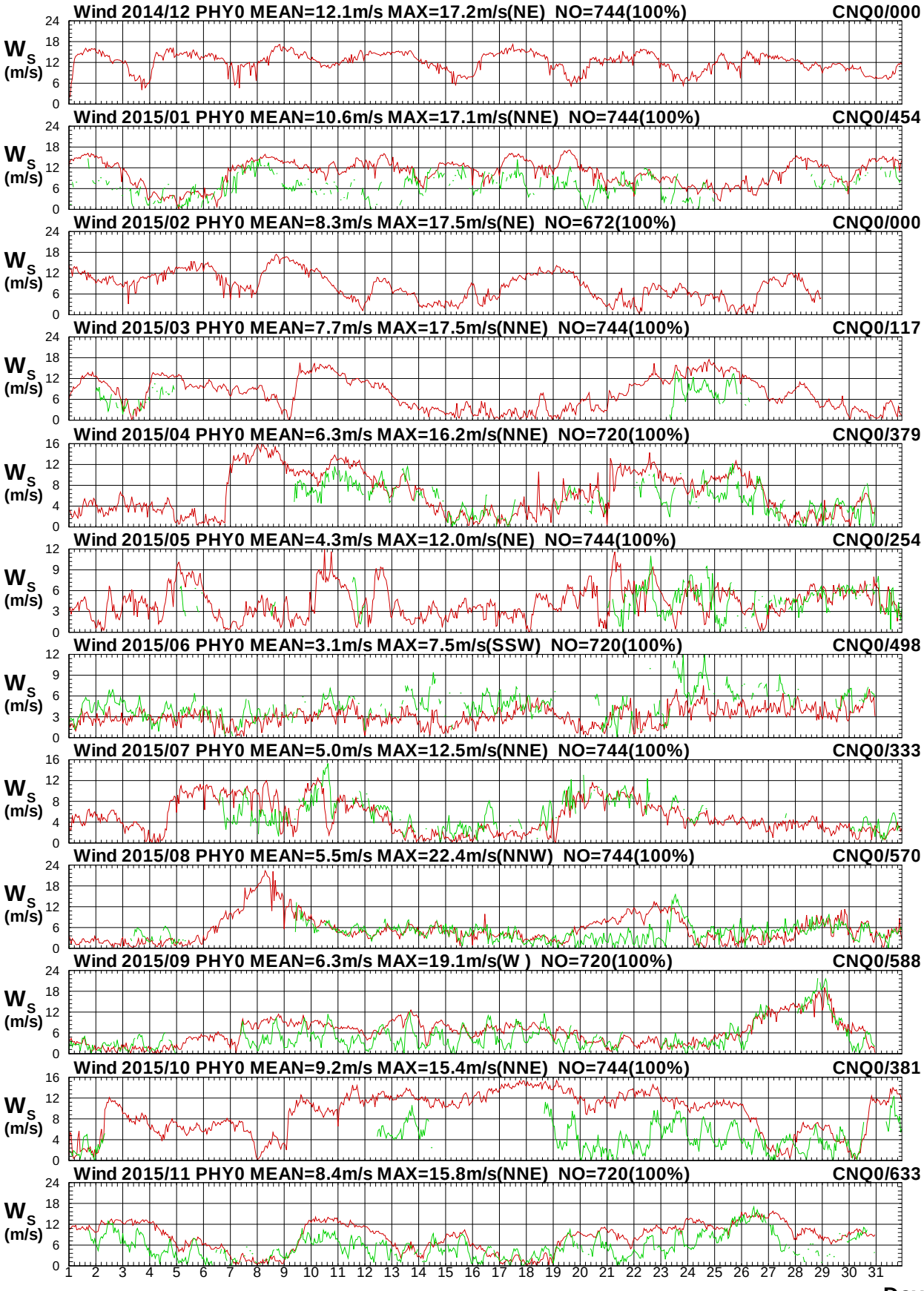

圖 10.14a　2015年每月澎湖海域 Y 站與嘉南海域 Q 站風速圖

W14CPHY0.1HA W14CCNQ0.1H0 W151PHY0.1HA W151CNQ0.1H0 W152PHY0.1HA W152CNQ0.1H0
W153PHY0.1HA W153CNQ0.1H0 W154PHY0.1HA W154CNQ0.1H0 W155PHY0.1HA W155CNQ0.1H0

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Wind Direction in Peng-Hu Seas of PHY0 at 2015

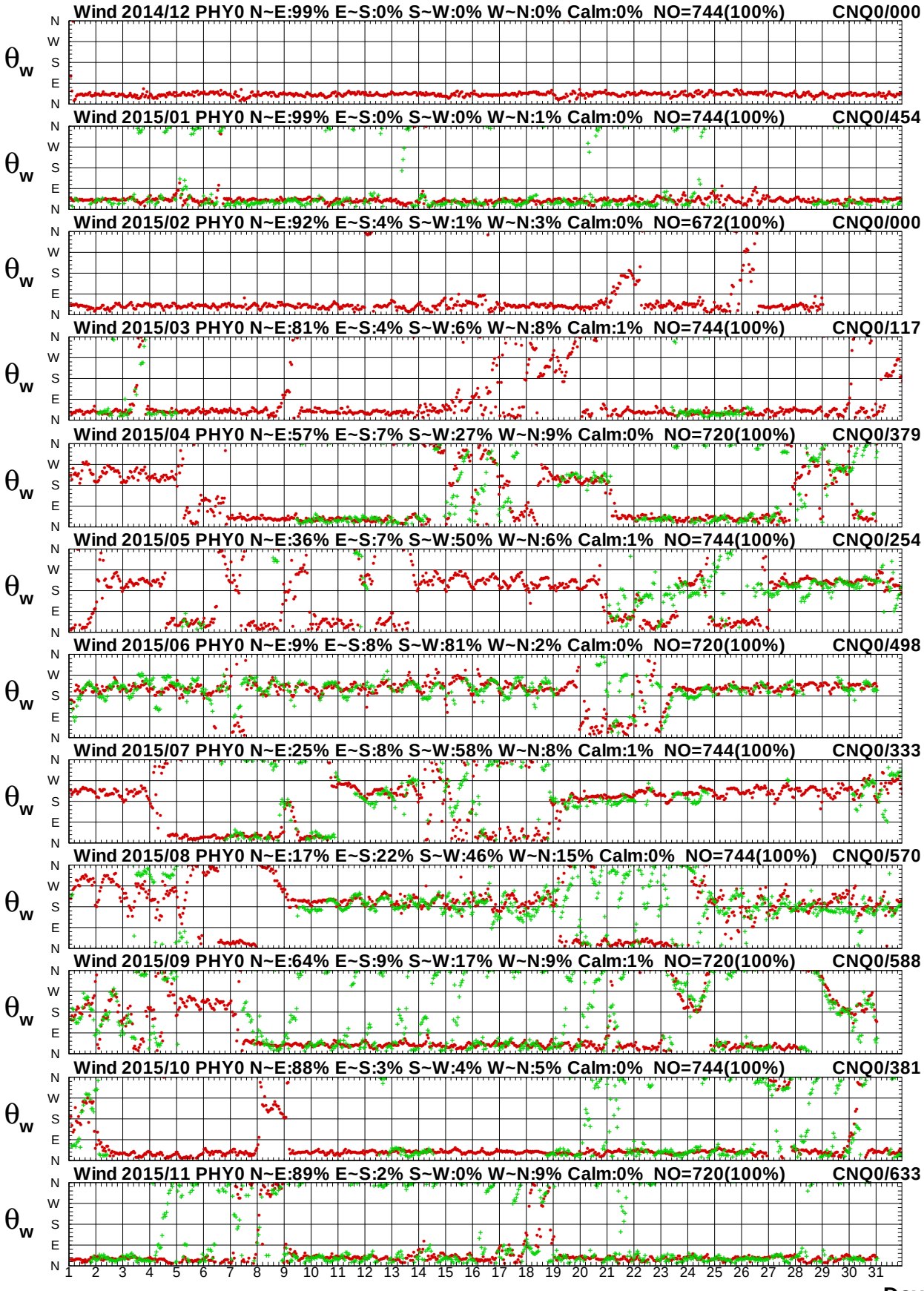

圖 10.14b　2015年每月澎湖海域 Y 站與嘉南海域 Q 站風向圖

W14CPHY0.1HA W14CCNQ0.1H0 W151PHY0.1HA W151CNQ0.1H0 W152PHY0.1HA W152CNQ0.1H0
W153PHY0.1HA W153CNQ0.1H0 W154PHY0.1HA W154CNQ0.1H0 W155PHY0.1HA W155CNQ0.1H0

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Wind Speed in Peng-Hu Seas of PHY0 at 2015

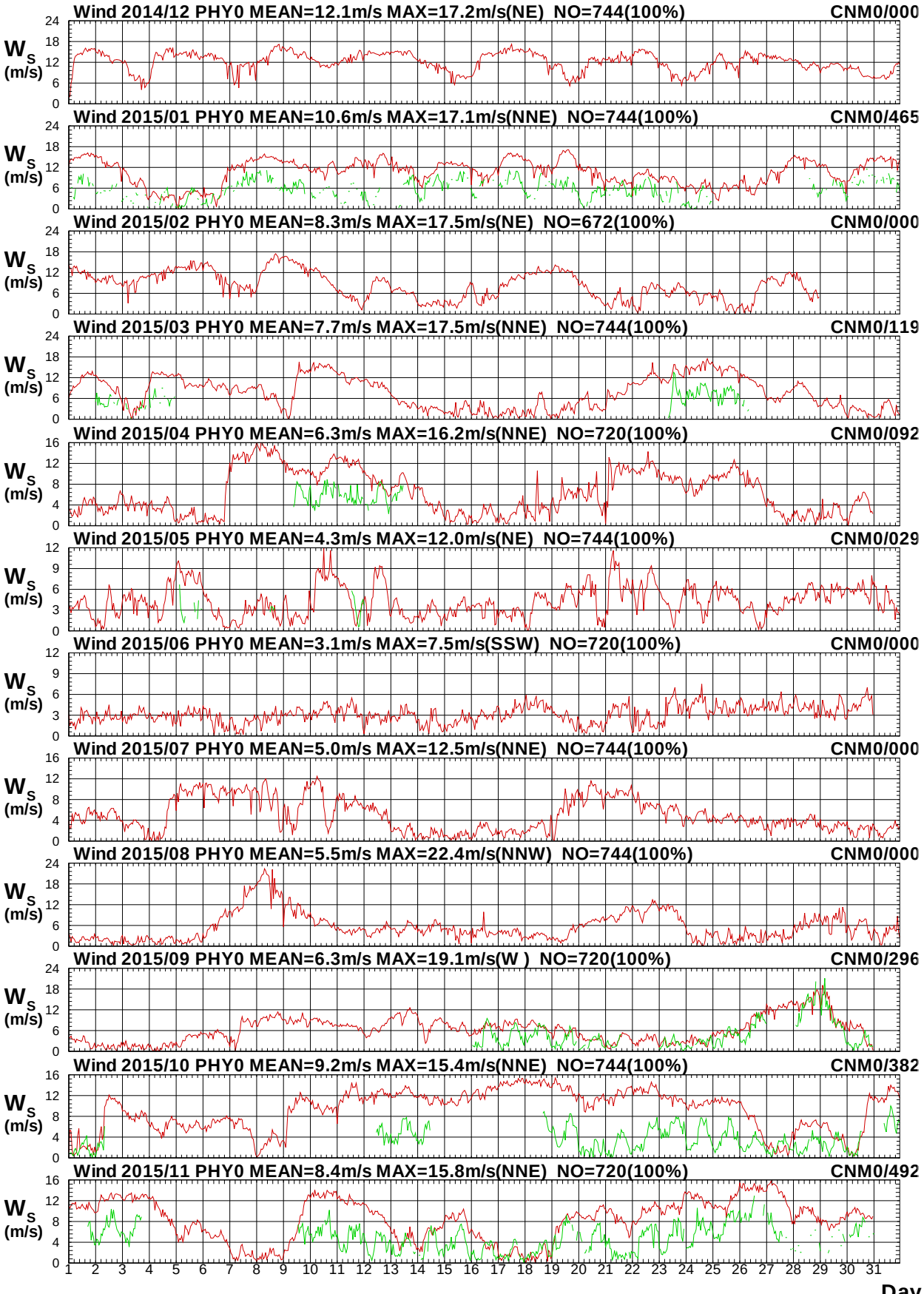

圖 10.15a　2015年每月澎湖海域 Y 站與嘉南海域 M 站風速圖

Wind Direction in Peng-Hu Seas of PHY0 at 2015

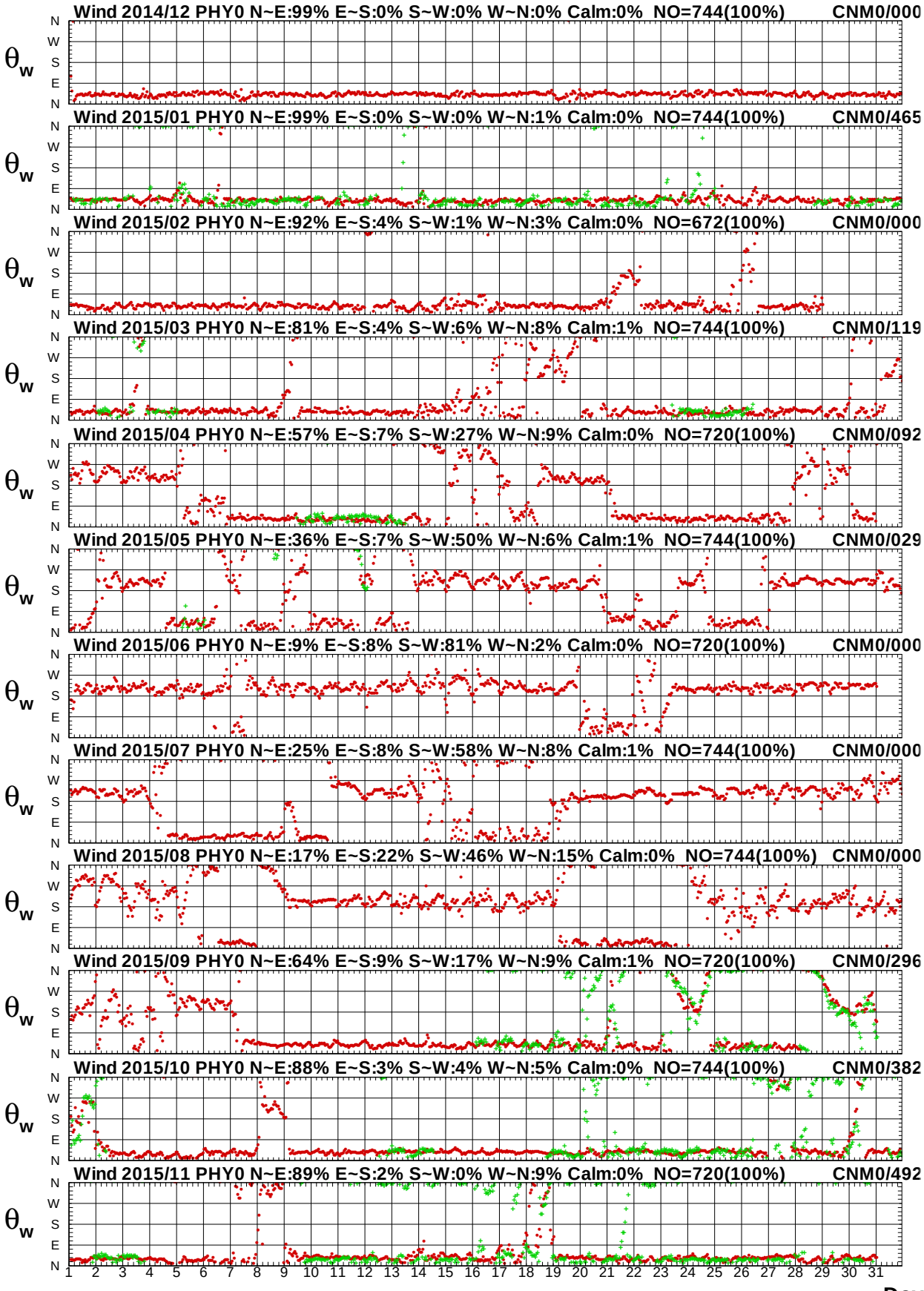

圖 10.15b　2015年每月澎湖海域 Y 站與嘉南海域 M 站風向圖

W14CPHY0.1HA W14CCNM0.1H0 W151PHY0.1HA W151CNM0.1H0 W152PHY0.1HA W152CNM0.1H0
W153PHY0.1HA W153CNM0.1H0 W154PHY0.1HA W154CNM0.1H0 W155PHY0.1HA W155CNM0.1H0

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Wind Speed in Peng-Hu Seas of PHY0 at 2015

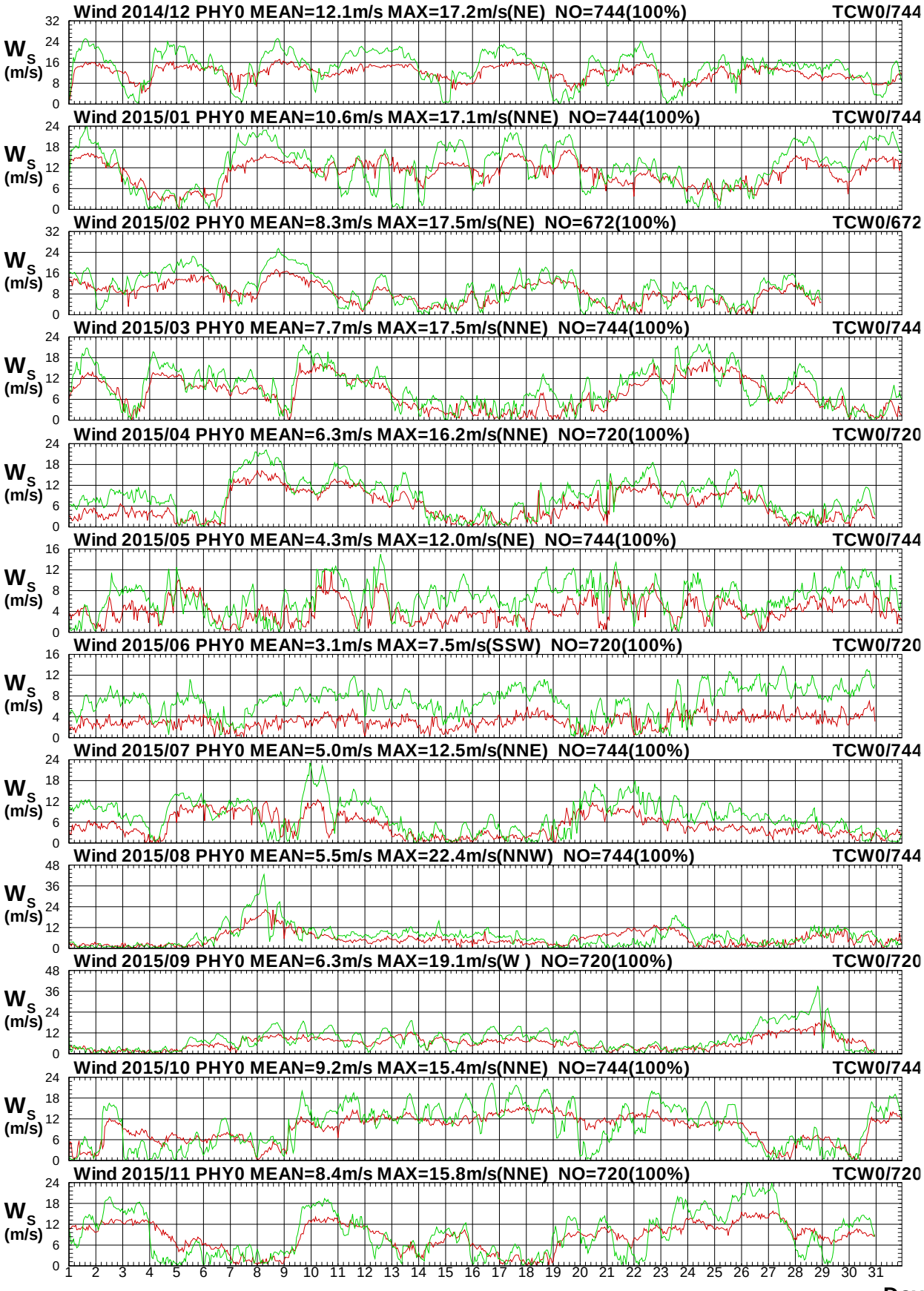

圖10.16a　2015年每月澎湖海域 Y 站與中雲海域 W 站風速圖

W14CPHY0.1HA W14CTCW0.1H0 W151PHY0.1HA W151TCW0.1H0 W152PHY0.1HA W152TCW0.1H0
W153PHY0.1HA W153TCW0.1H0 W154PHY0.1HA W154TCW0.1H0 W155PHY0.1HA W155TCW0.1H0

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Wind Direction in Peng-Hu Seas of PHY0 at 2015

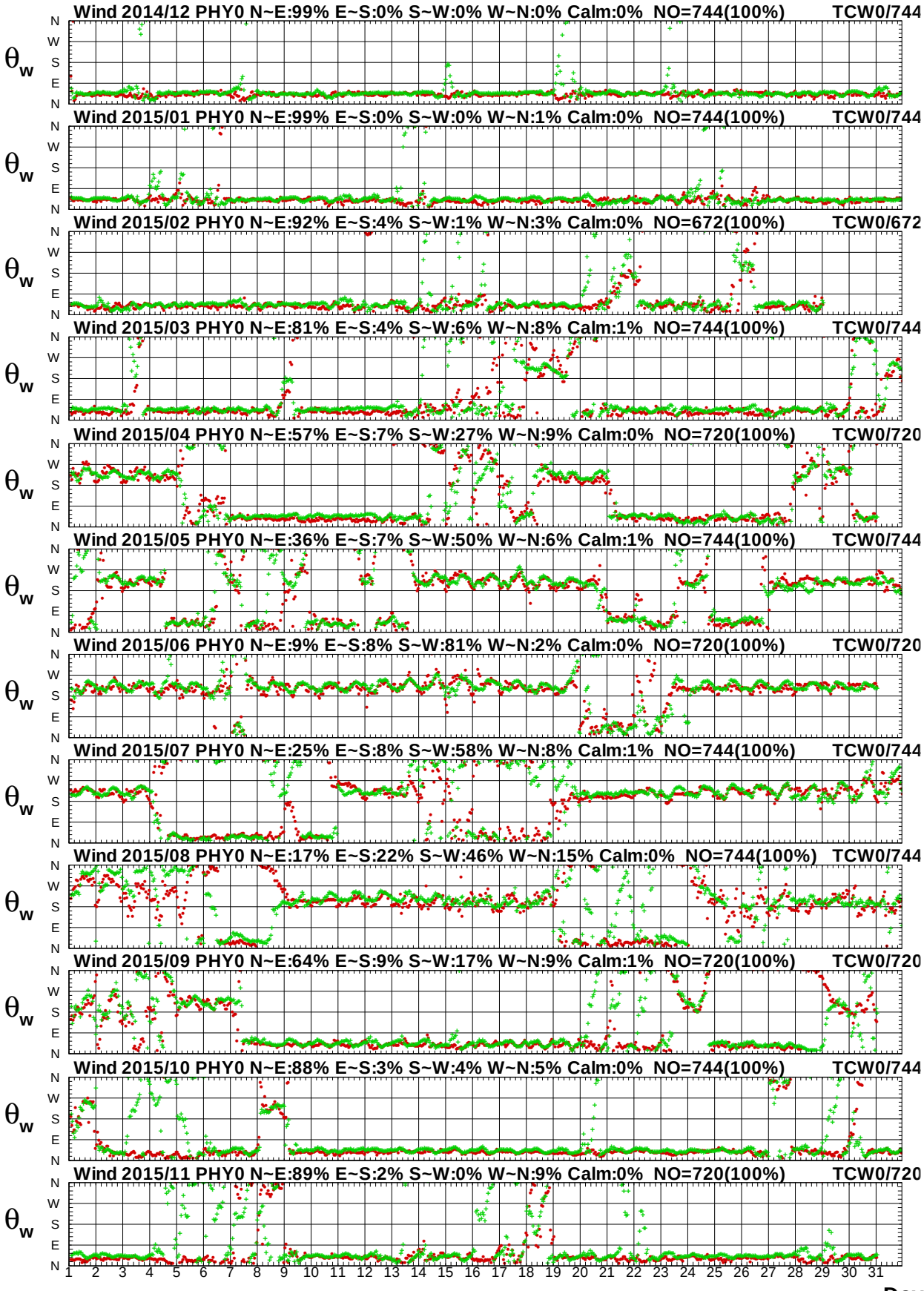

圖 10.16b　2015年每月澎湖海域 Y 站與中雲海域 W 站風向圖

Wind Speed in Peng-Hu Seas of PHY0 at 2015

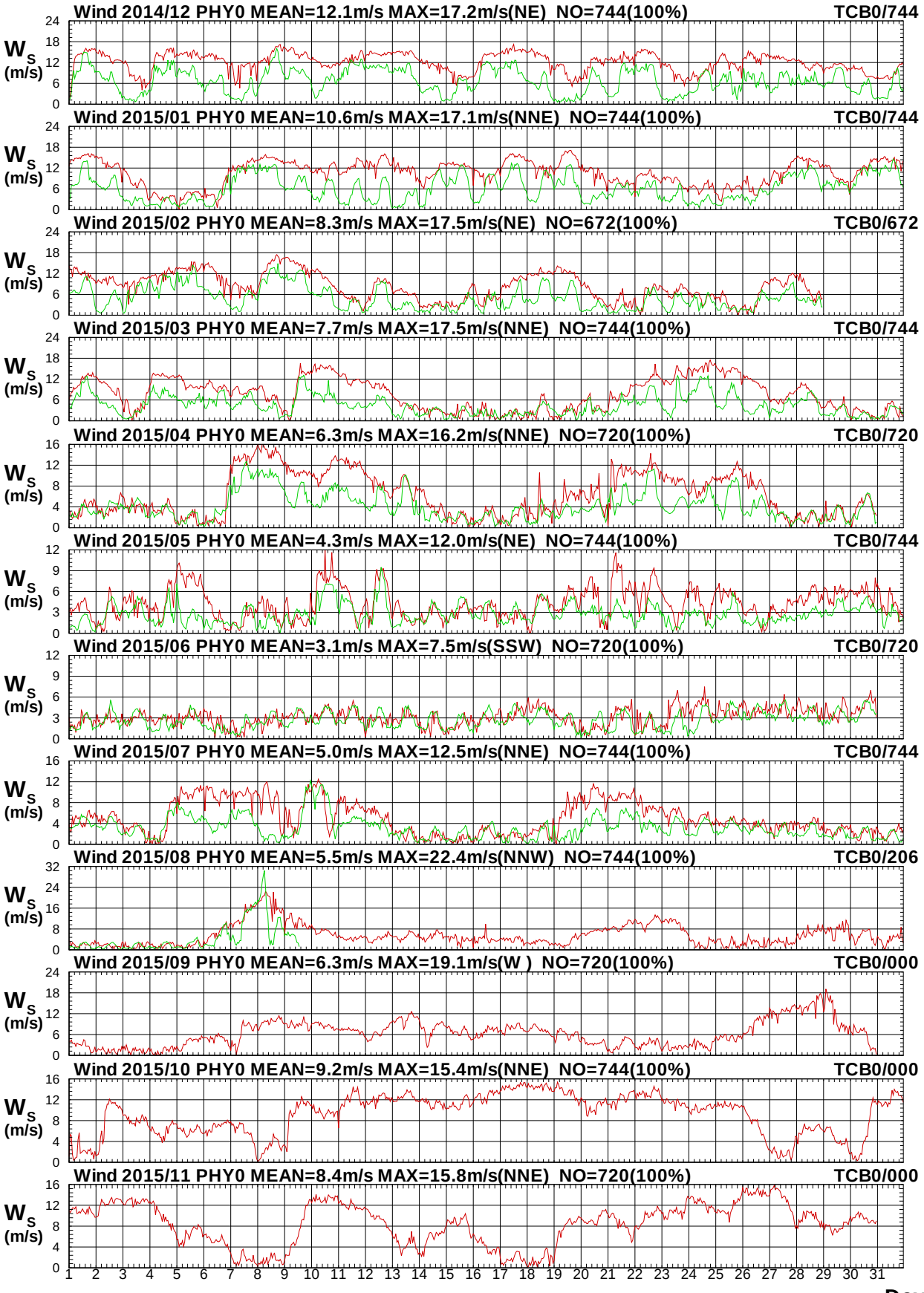

圖 10.17a　2015年每月澎湖海域 Y 站與中雲海域 B 站風速圖

W14CPHY0.1HA W14CTCB0.1H0 W151PHY0.1HA W151TCB0.1H0 W152PHY0.1HA W152TCB0.1H0
W153PHY0.1HA W153TCB0.1H0 W154PHY0.1HA W154TCB0.1H0 W155PHY0.1HA W155TCB0.1H0

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Wind Direction in Peng-Hu Seas of PHY0 at 2015

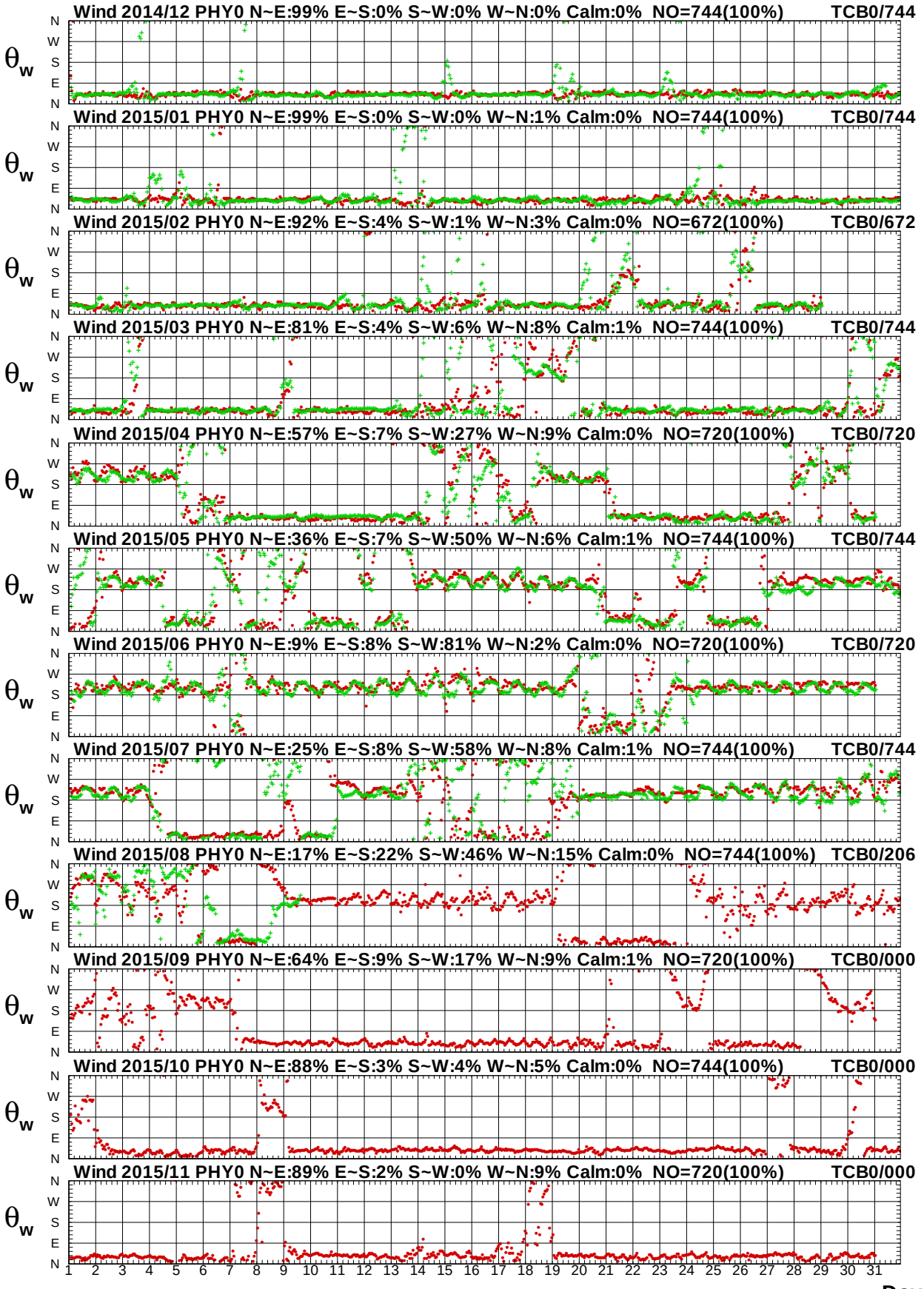

圖 10.17b　2015年每月澎湖海域 Y 站與中雲海域 B 站風向圖

W14CPHY0.1HA W14CTCB0.1H0 W151PHY0.1HA W151TCB0.1H0 W152PHY0.1HA W152TCB0.1H0
W153PHY0.1HA W153TCB0.1H0 W154PHY0.1HA W154TCB0.1H0 W155PHY0.1HA W155TCB0.1H0

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Wind Speed in Peng-Hu Seas of PHY0 at 2015

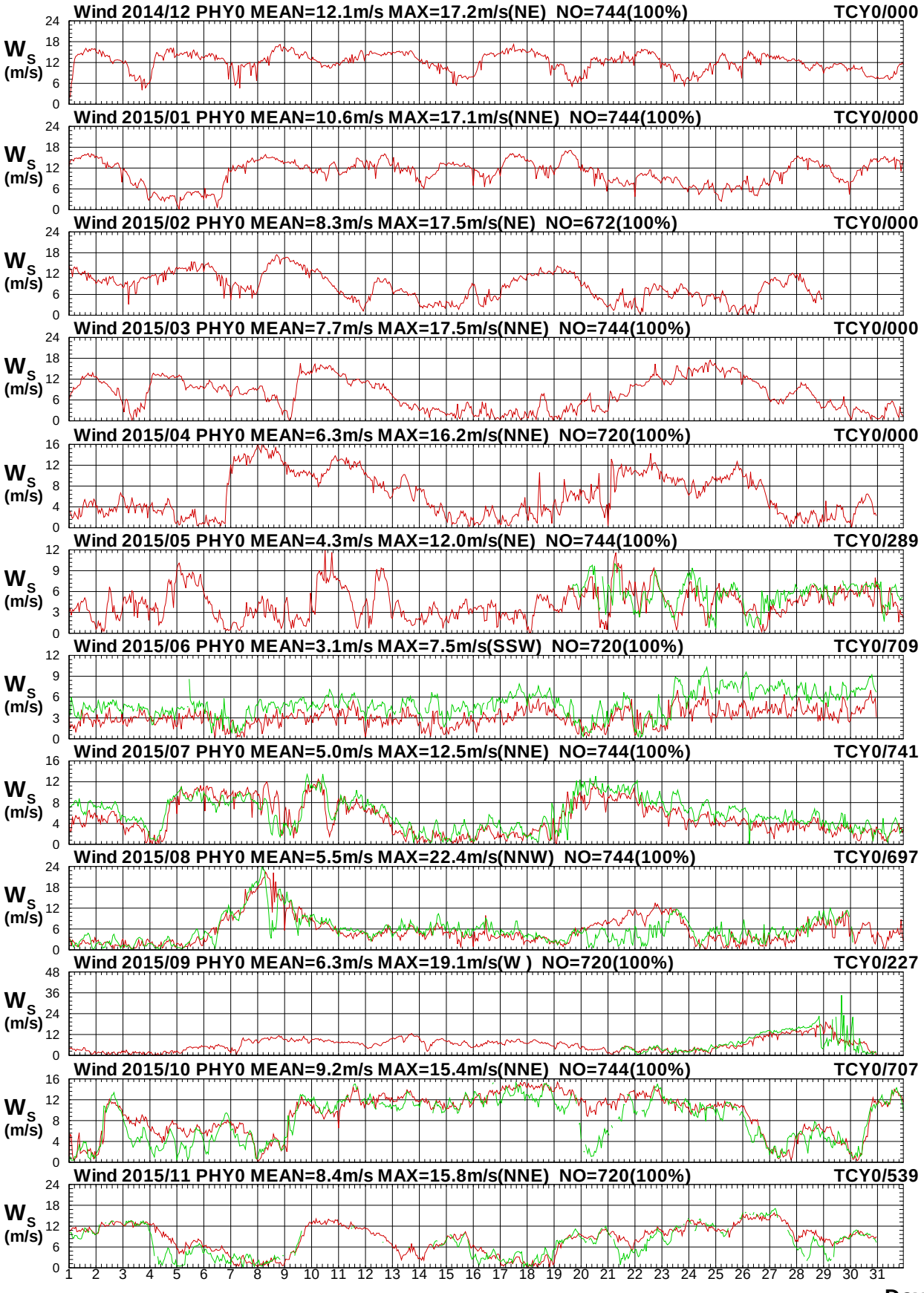

圖 10.18a　2015年每月澎湖海域 Y 站與中雲海域 Y 站風速圖

W14CPHY0.1HA W14CTCY0.1H0 W151PHY0.1HA W151TCY0.1H0 W152PHY0.1HA W152TCY0.1H0
W153PHY0.1HA W153TCY0.1H0 W154PHY0.1HA W154TCY0.1H0 W155PHY0.1HA W155TCY0.1H0

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Wind Direction in Peng-Hu Seas of PHY0 at 2015

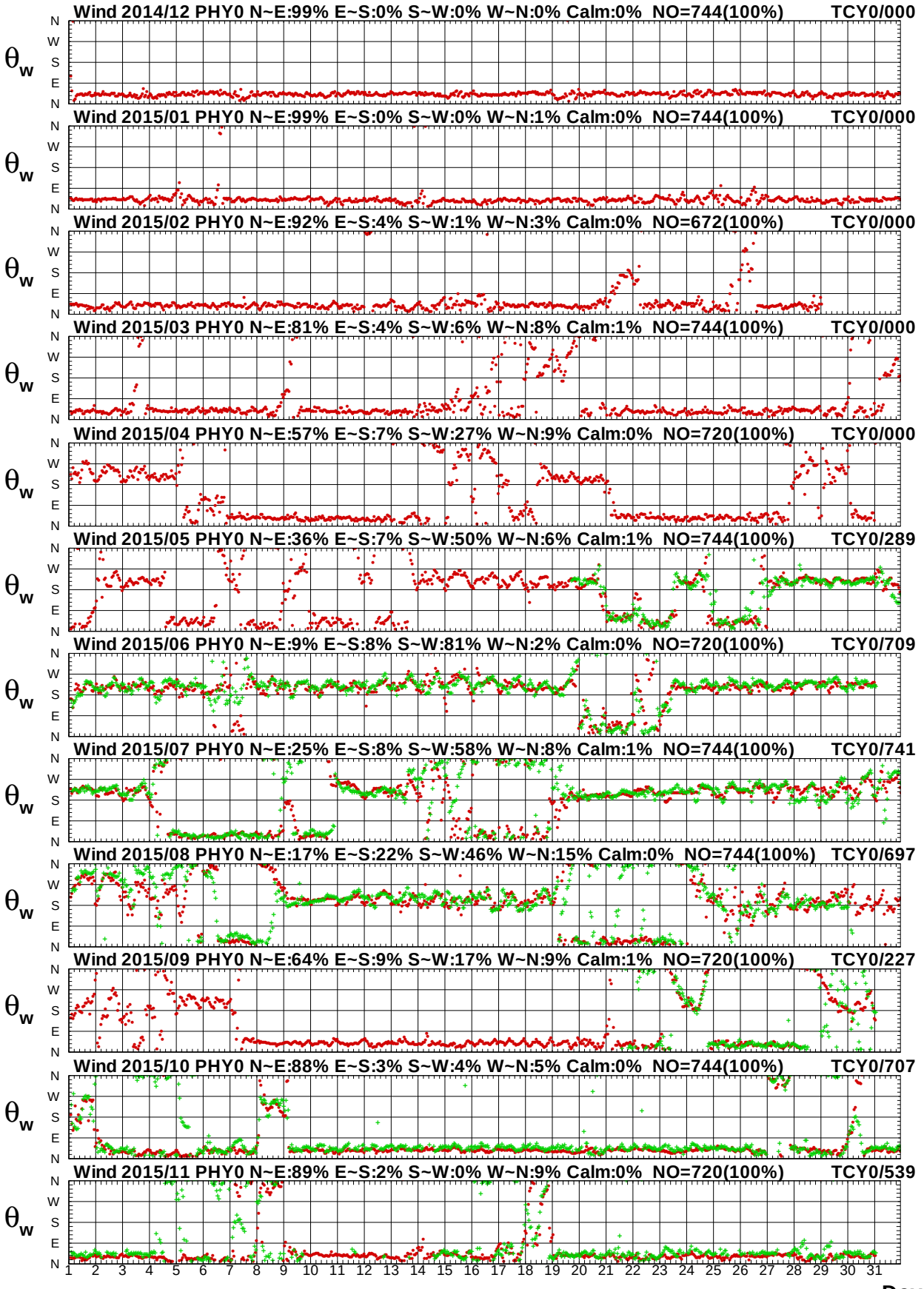

圖 10.18b　2015年每月澎湖海域 Y 站與中雲海域 Y 站風向圖

Wind Speed in Peng-Hu Seas of PHY0 at 2015

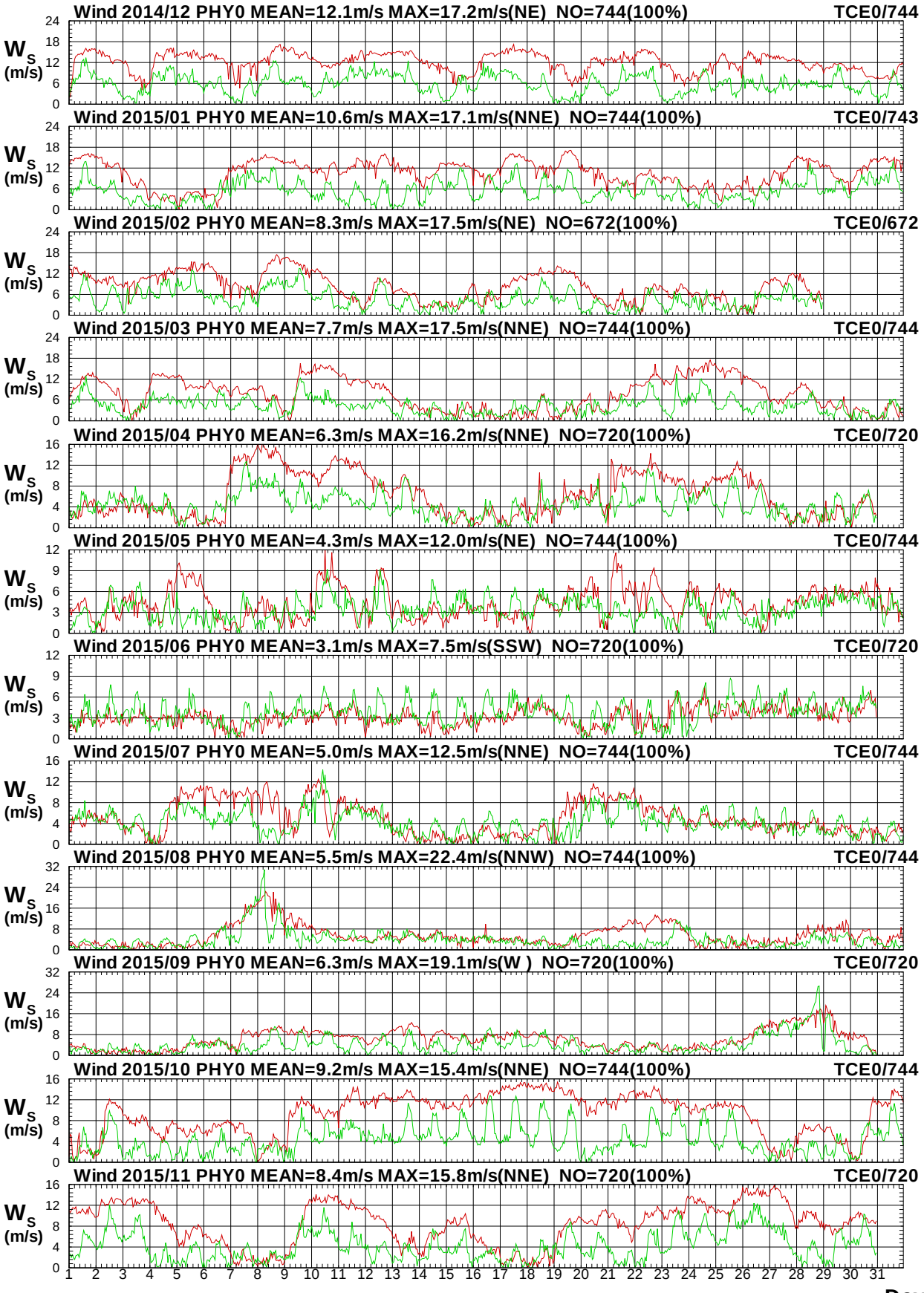

圖 10.19a　2015年每月澎湖海域 Y 站與中雲海域 E 站風速圖

W14CPHY0.1HA W14CTCE0.1H0 W151PHY0.1HA W151TCE0.1H0 W152PHY0.1HA W152TCE0.1H0
W153PHY0.1HA W153TCE0.1H0 W154PHY0.1HA W154TCE0.1H0 W155PHY0.1HA W155TCE0.1H0

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Wind Direction in Peng-Hu Seas of PHY0 at 2015

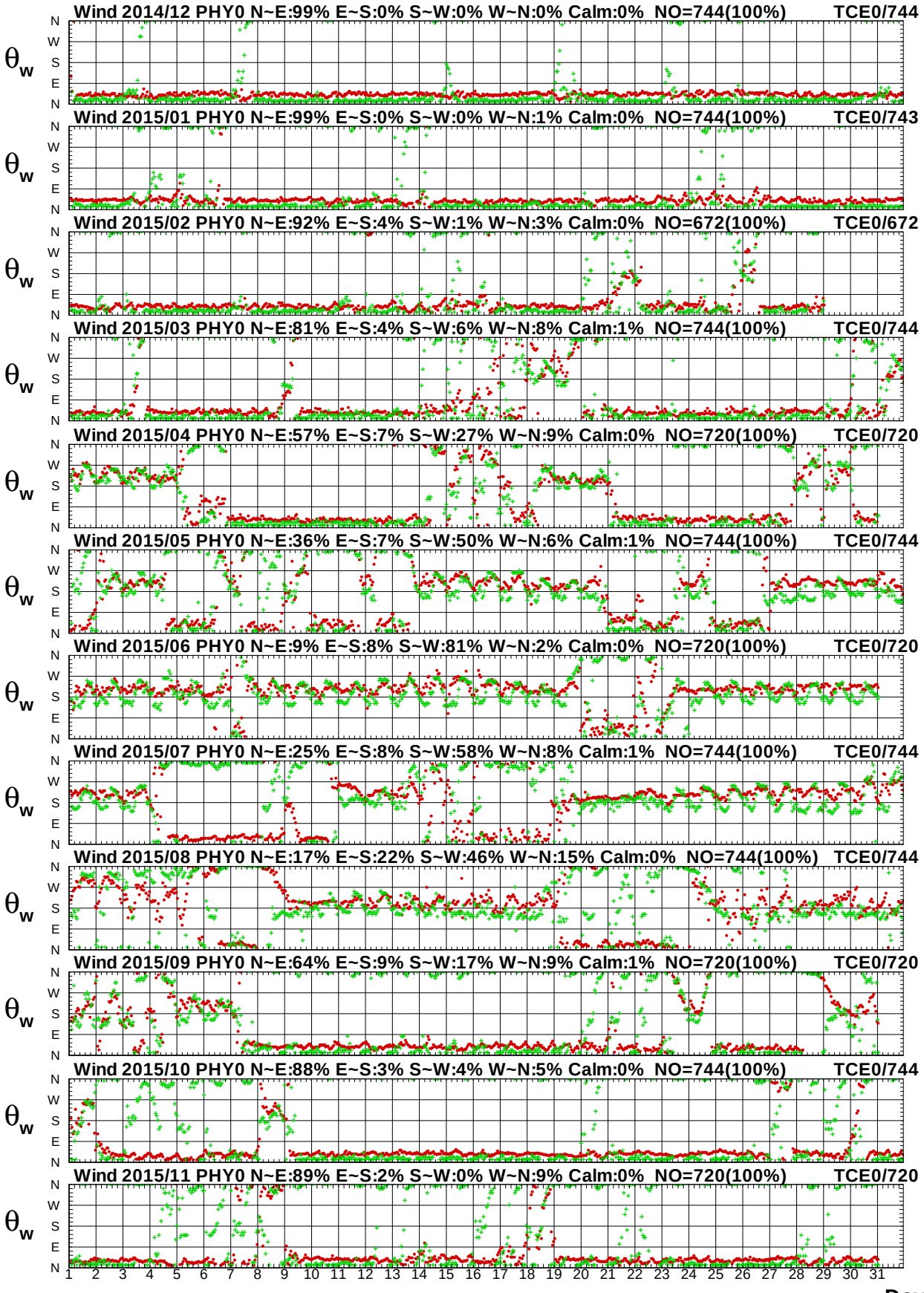

圖 10.19b　2015年每月澎湖海域 Y 站與中雲海域 E 站風向圖

W14CPHY0.1HA W14CTCE0.1H0 W151PHY0.1HA W151TCE0.1H0 W152PHY0.1HA W152TCE0.1H0
W153PHY0.1HA W153TCE0.1H0 W154PHY0.1HA W154TCE0.1H0 W155PHY0.1HA W155TCE0.1H0

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Wind Speed in Peng-Hu Seas of PHY0 at 2015

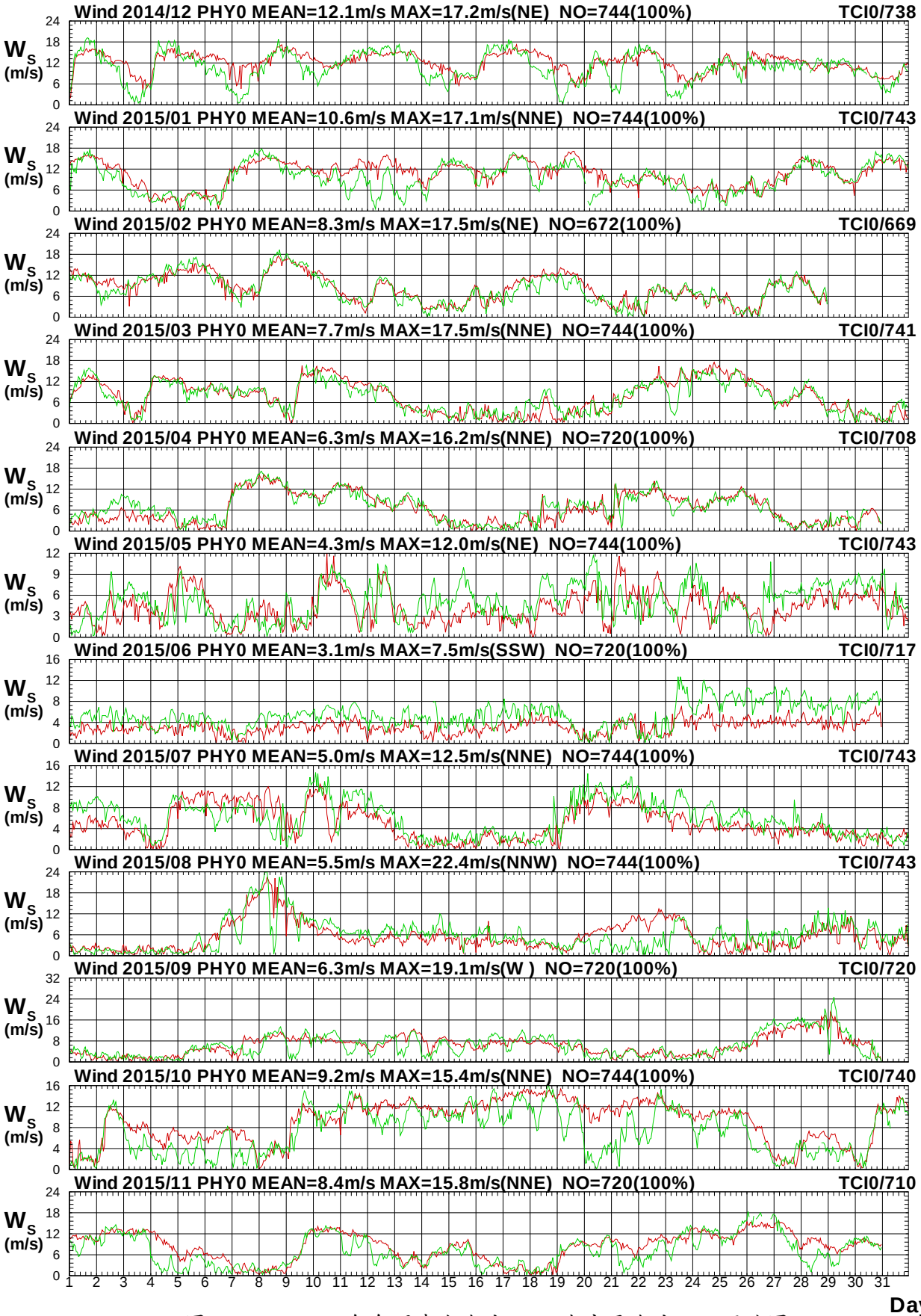

圖 10.20a　2015年每月澎湖海域 Y 站與中雲海域 I 站風速圖

W14CPHY0.1HA W14CTCI0.1H0 W151PHY0.1HA W151TCI0.1H0 W152PHY0.1HA W152TCI0.1H0
W153PHY0.1HA W153TCI0.1H0 W154PHY0.1HA W154TCI0.1H0 W155PHY0.1HA W155TCI0.1H0

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Wind Direction in Peng-Hu Seas of PHY0 at 2015

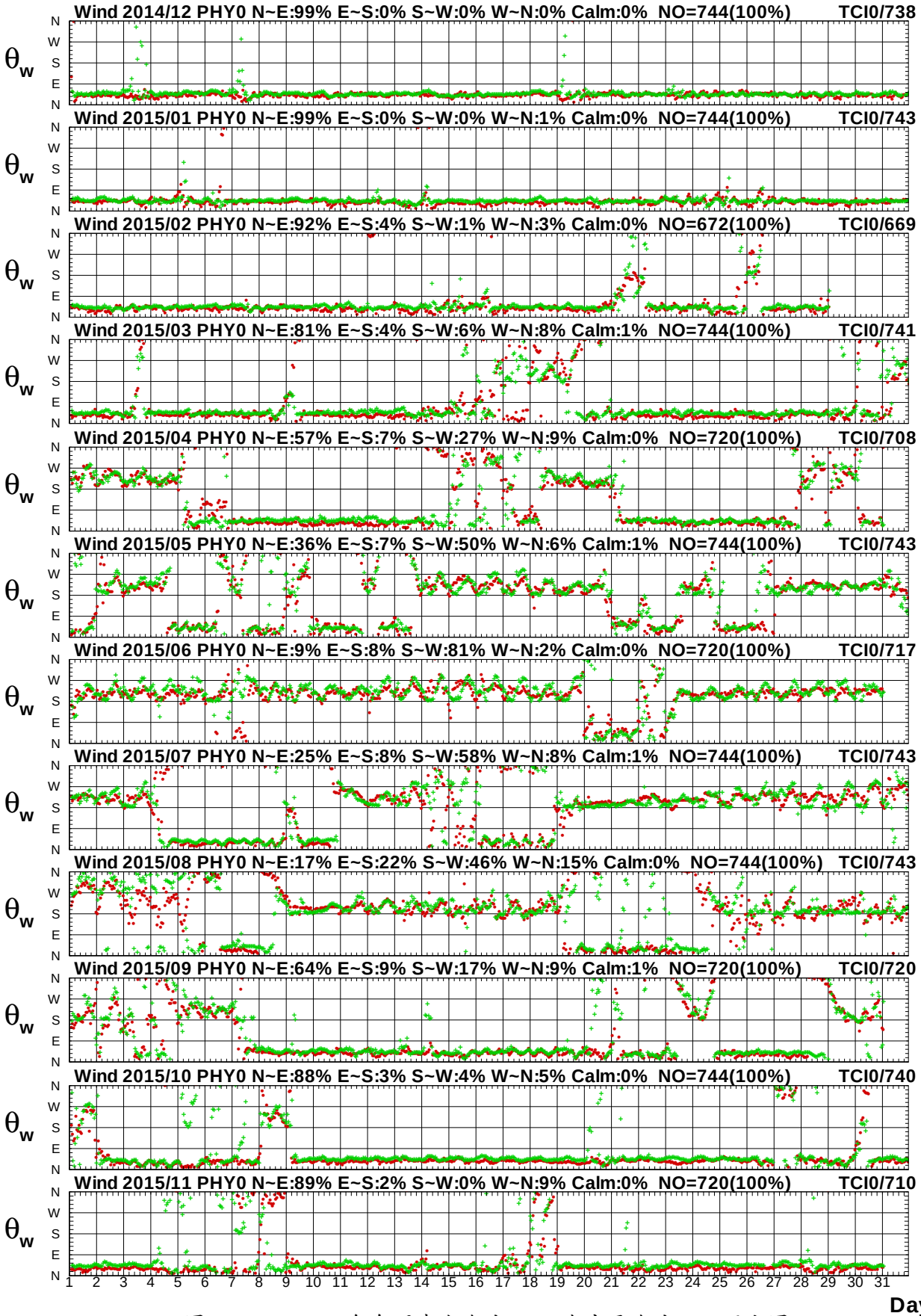

圖 10.20b　2015年每月澎湖海域 Y 站與中雲海域 I 站風向圖

第十一章　2015 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 11。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 11。

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)。

本風力年報以取經檢核或修補後之 **Y 站**資料作為**主要觀測站**，2015 年各觀測站修補前(後)每月觀測之風資料記錄期間統計表，如表 11.1，**主要觀測站修補前後**每月風力歷線比較圖，如圖 11.1，**主要觀測站**與**次要觀測站**(或**其他觀測站**)每月風力歷線比較圖，如圖 11.2 以後。

表 11 金門海域觀測風力資料蒐集概況表(統計時間至 2015 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	2010/12-2015/11(觀測中)	港研中心	水頭港區
B	24°24'29"N	118°25'46”E	2012/08-2015/11(觀測中)	港研中心	料羅港區
C	24°25'30"N	118°15'48"E	2014/02-2015/11(觀測中)	港研中心	九宮港區
E	24°24'26"N	118°17'21"E	2004/01-2015/11(觀測中)	中央氣象局	水頭氣象站
Y	23°43'37"N	119°33'07"E	2001/01-2015/11(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	2001/01-2015/11(觀測中)	水利署	料羅氣象站
I	24°25'16"N	118°17'21"E	2013/09-2015/11(觀測中)	水利署	水頭氣象站

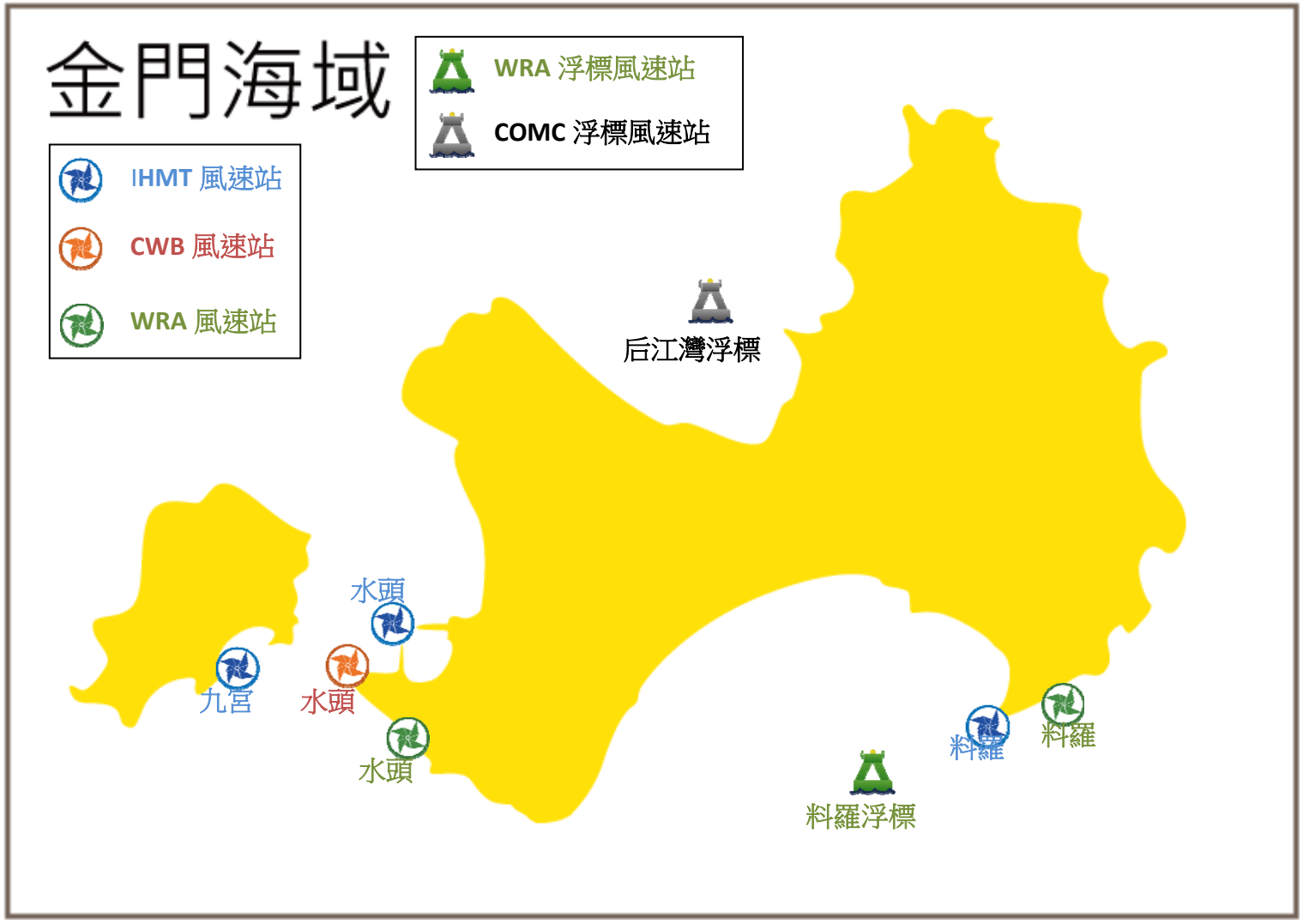

圖 11 金門海域風力觀測站位置示意圖

表11.1a 2015年每月金門海域修補前各測站觀測風力資料紀錄統計表

年/月 港區	金門海域	金門海域	金門海域	金門海域	金門海域	金門海域	金門海域	金門海域
測站	W	Y	B	C	E	Z	H	I
2014/12月	744 (100%)	730 (98.1%)	743 (99.9%)	744 (100%)	744 (100%)	*	744 (100%)	744 (100%)
2015/ 1月	744 (100%)	703 (94.5%)	744 (100%)	744 (100%)	743 (99.9%)	*	744 (100%)	744 (100%)
2015/ 2月	672 (100%)	670 (99.7%)	671 (99.9%)	672 (100%)	672 (100%)	*	672 (100%)	672 (100%)
2015/ 3月	744 (100%)	741 (99.6%)	744 (100%)	744 (100%)	744 (100%)	*	744 (100%)	744 (100%)
2015/ 4月	720 (100%)	719 (99.9%)	720 (100%)	720 (100%)	720 (100%)	*	720 (100%)	720 (100%)
2015/ 5月	744 (100%)	742 (99.7%)	743 (99.9%)	743 (99.9%)	744 (100%)	*	744 (100%)	742 (99.7%)
2015/ 6月	720 (100%)	713 (99.0%)	719 (99.9%)	701 (97.4%)	720 (100%)	*	720 (100%)	719 (99.9%)
2015/ 7月	744 (100%)	740 (99.5%)	742 (99.7%)	743 (99.9%)	744 (100%)	*	744 (100%)	744 (100%)
2015/ 8月	744 (100%)	742 (99.7%)	744 (100%)	740 (99.5%)	744 (100%)	*	704 (94.6%)	741 (99.6%)
2015/ 9月	718 (99.7%)	718 (99.7%)	713 (99.0%)	706 (98.1%)	720 (100%)	*	718 (99.7%)	716 (99.4%)
2015/10月	744 (100%)	732 (98.4%)	744 (100%)	722 (97.0%)	744 (100%)	*	744 (100%)	743 (99.9%)
2015/11月	720 (100%)	714 (99.2%)	719 (99.9%)	704 (97.8%)	720 (100%)	*	720 (100%)	719 (99.9%)
2015/冬季	2160 (100%)	2103 (97.4%)	2158 (99.9%)	2160 (100%)	2159 (100.0%)	*	2160 (100%)	2160 (100%)
2015/春季	2208 (100%)	2202 (99.7%)	2207 (100.0%)	2207 (100.0%)	2208 (100%)	*	2208 (100%)	2206 (99.9%)
2015/夏季	2208 (100%)	2195 (99.4%)	2205 (99.9%)	2184 (98.9%)	2208 (100%)	*	2168 (98.2%)	2204 (99.8%)
2015/秋季	2182 (99.9%)	2164 (99.1%)	2176 (99.6%)	2132 (97.6%)	2184 (100%)	*	2182 (99.9%)	2178 (99.7%)
2015/整年	8758 (100.0%)	8664 (98.9%)	8746 (99.8%)	8683 (99.1%)	8759 (100.0%)	*	8718 (99.5%)	8748 (99.9%)
起始年月	2014/12	2014/12	2014/12	2014/12	2014/12	*	2014/12	2014/12
結束年月	2015/11	2015/11	2015/11	2015/11	2015/11	*	2015/11	2015/11

表11.1b 2015年每月金門海域修補後各測站風力資料統計表

年/月 港區	金門海域	金門海域	金門海域	金門海域	金門海域	金門海域	金門海域	金門海域
測站	W	Y	B	C	E	Z	H	I
2014/12月	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	*	744 (100%)	744 (100%)
2015/ 1月	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	*	744 (100%)	744 (100%)
2015/ 2月	672 (100%)	672 (100%)	672 (100%)	672 (100%)	672 (100%)	*	672 (100%)	672 (100%)
2015/ 3月	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	*	744 (100%)	744 (100%)
2015/ 4月	720 (100%)	720 (100%)	720 (100%)	720 (100%)	720 (100%)	*	720 (100%)	720 (100%)
2015/ 5月	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	*	744 (100%)	744 (100%)
2015/ 6月	720 (100%)	720 (100%)	720 (100%)	720 (100%)	720 (100%)	*	720 (100%)	720 (100%)
2015/ 7月	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	*	744 (100%)	744 (100%)
2015/ 8月	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	*	744 (100%)	744 (100%)
2015/ 9月	720 (100%)	720 (100%)	720 (100%)	720 (100%)	720 (100%)	*	720 (100%)	720 (100%)
2015/10月	744 (100%)	744 (100%)	744 (100%)	744 (100%)	744 (100%)	*	744 (100%)	744 (100%)
2015/11月	720 (100%)	720 (100%)	720 (100%)	720 (100%)	720 (100%)	*	720 (100%)	720 (100%)
2015/冬季	2160 (100%)	2160 (100%)	2160 (100%)	2160 (100%)	2160 (100%)	*	2160 (100%)	2160 (100%)
2015/春季	2208 (100%)	2208 (100%)	2208 (100%)	2208 (100%)	2208 (100%)	*	2208 (100%)	2208 (100%)
2015/夏季	2208 (100%)	2208 (100%)	2208 (100%)	2208 (100%)	2208 (100%)	*	2208 (100%)	2208 (100%)
2015/秋季	2184 (100%)	2184 (100%)	2184 (100%)	2184 (100%)	2184 (100%)	*	2184 (100%)	2184 (100%)
2015/整年	8760 (100%)	8760 (100%)	8760 (100%)	8760 (100%)	8760 (100%)	*	8760 (100%)	8760 (100%)
起始年月	2014/12	2014/12	2014/12	2014/12	2014/12	*	2014/12	2014/12
結束年月	2015/11	2015/11	2015/11	2015/11	2015/11	*	2015/11	2015/11

Wind Speed in Kin-Men seas of KMY0 at 2015

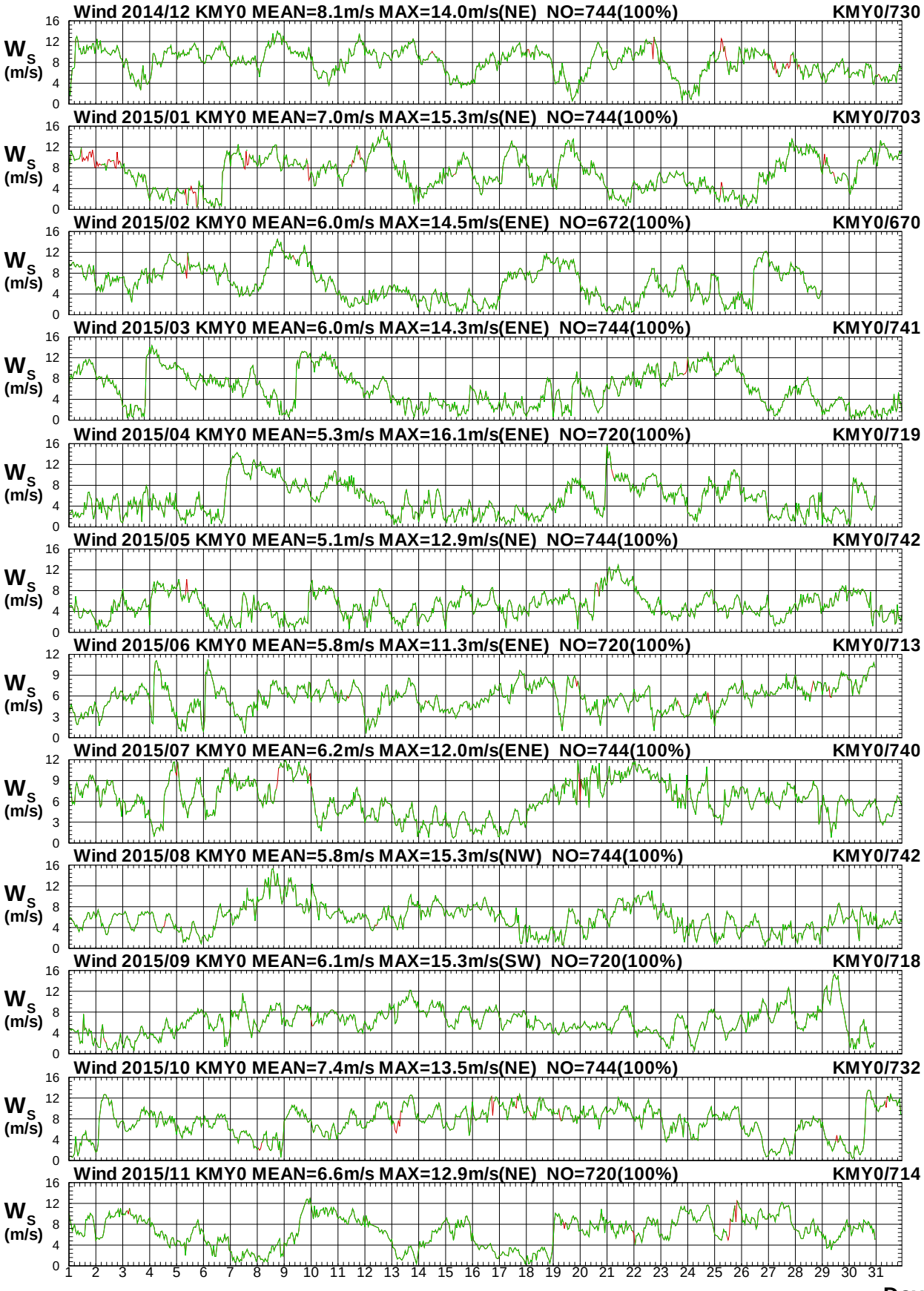

圖 11.1a　2015年每月金門海域 Y 站修補前後之風速比較圖

W14CKMY0.1HA W14CKMY0.1H0 W151KMY0.1HA W151KMY0.1H0 W152KMY0.1HA W152KMY0.1H0
W153KMY0.1HA W153KMY0.1H0 W154KMY0.1HA W154KMY0.1H0 W155KMY0.1HA W155KMY0.1H0

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Wind Direction in Kin-Men seas of KMY0 at 2015

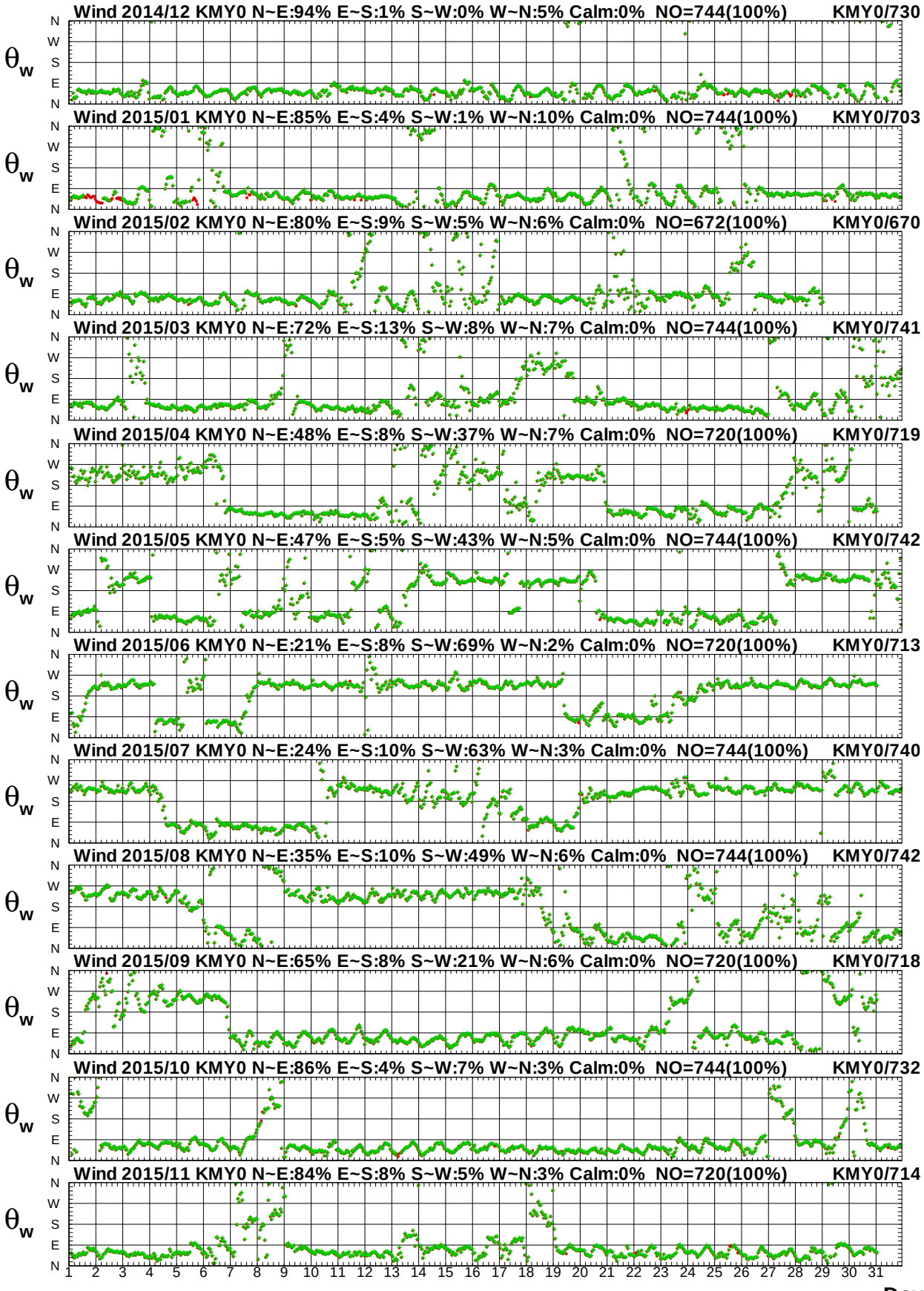

圖 11.1b　2015年每月金門海域 Y 站修補前後之風向比較圖

Wind Speed in Kin-Men seas of KMY0 at 2015

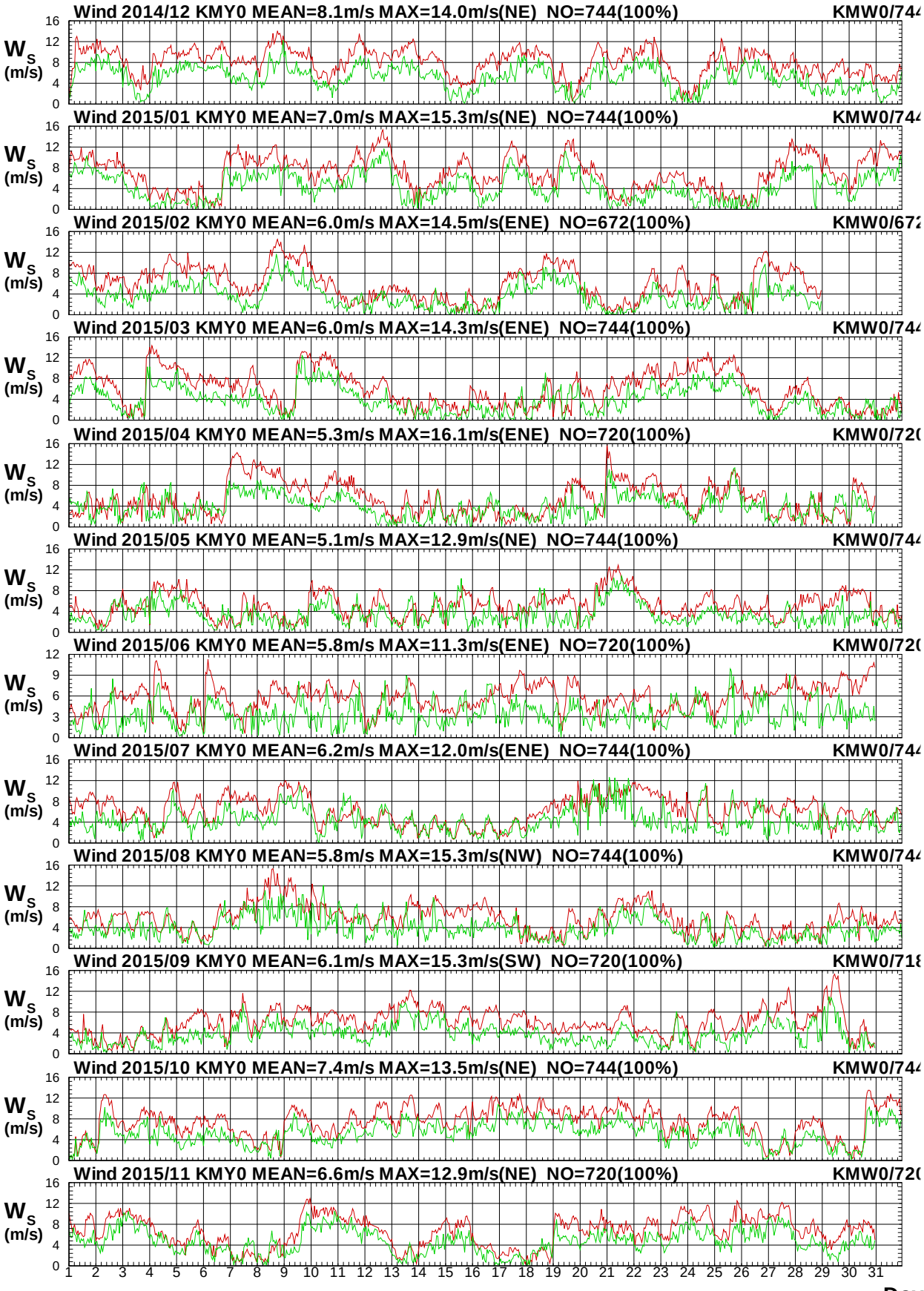

圖11.2a　2015年每月金門海域 Y 站與 W 站風速比較圖

W14CKMY0.1HA W14CKMW0.1H0 W151KMY0.1HA W151KMW0.1H0 W152KMY0.1HA W152KMW0.1H0
W153KMY0.1HA W153KMW0.1H0 W154KMY0.1HA W154KMW0.1H0 W155KMY0.1HA W155KMW0.1H0

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Wind Direction in Kin-Men seas of KMY0 at 2015

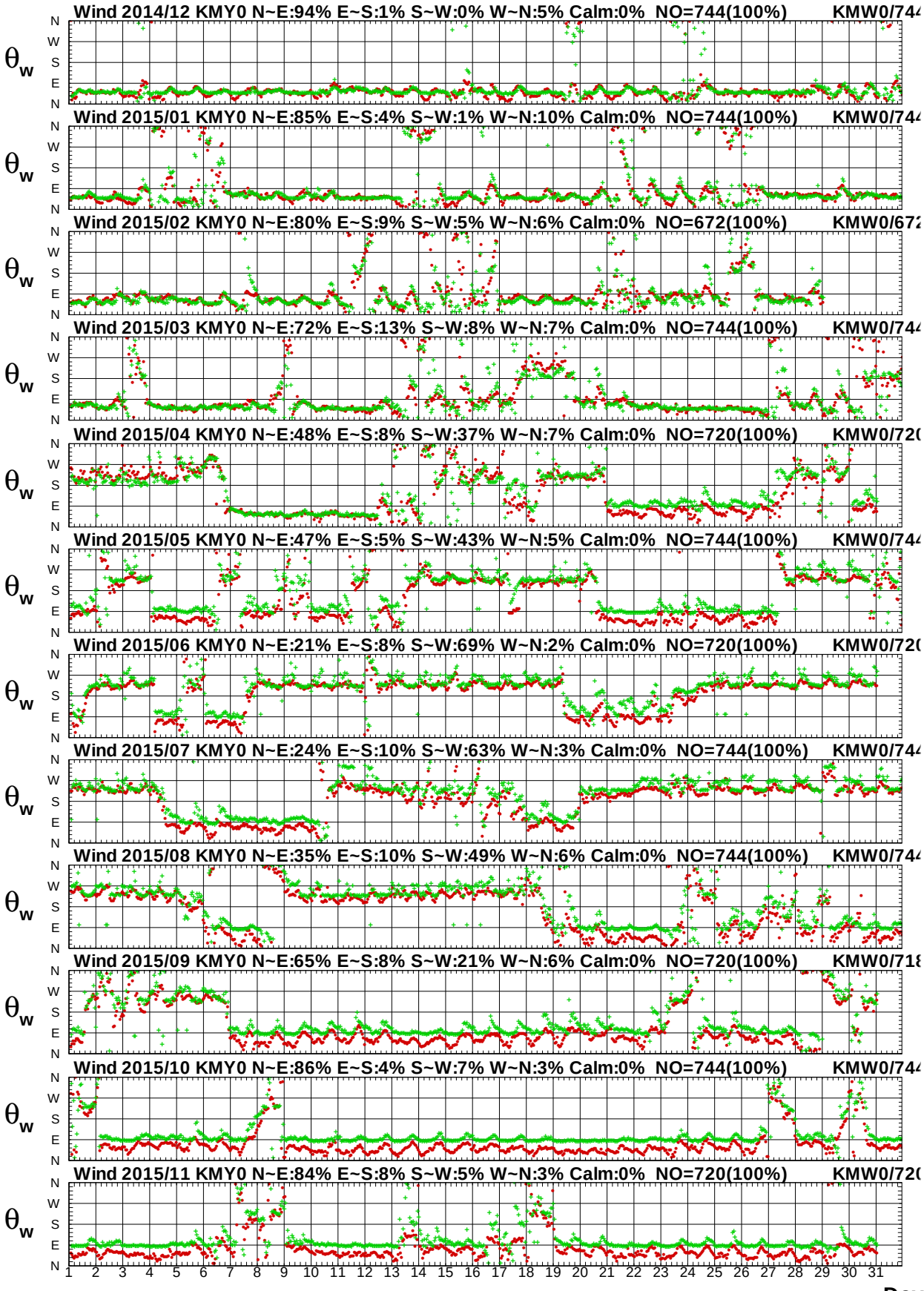

圖11.2b　2015年每月金門海域 Y 站與 W 站風向比較圖

W14CKMY0.1HA W14CKMW0.1H0 W151KMY0.1HA W151KMW0.1H0 W152KMY0.1HA W152KMW0.1H0
W153KMY0.1HA W153KMW0.1H0 W154KMY0.1HA W154KMW0.1H0 W155KMY0.1HA W155KMW0.1H0

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Wind Speed in Kin-Men seas of KMY0 at 2015

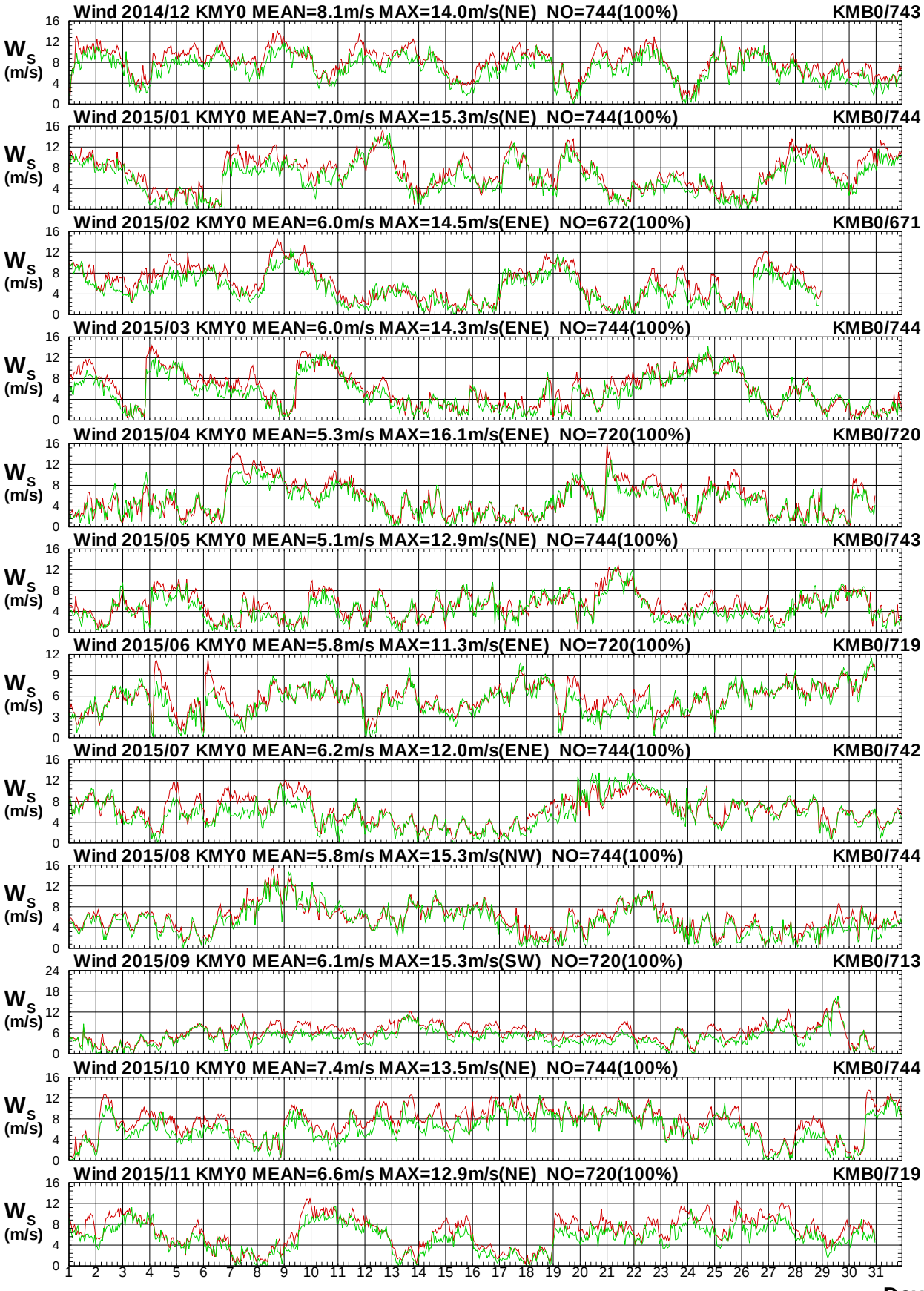

圖11.3a　2015年每月金門海域 Y 站與 B 站風速比較圖

W14CKMY0.1HA W14CKMB0.1H0 W151KMY0.1HA W151KMB0.1H0 W152KMY0.1HA W152KMB0.1H0
W153KMY0.1HA W153KMB0.1H0 W154KMY0.1HA W154KMB0.1H0 W155KMY0.1HA W155KMB0.1H0

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Wind Direction in Kin-Men seas of KMY0 at 2015

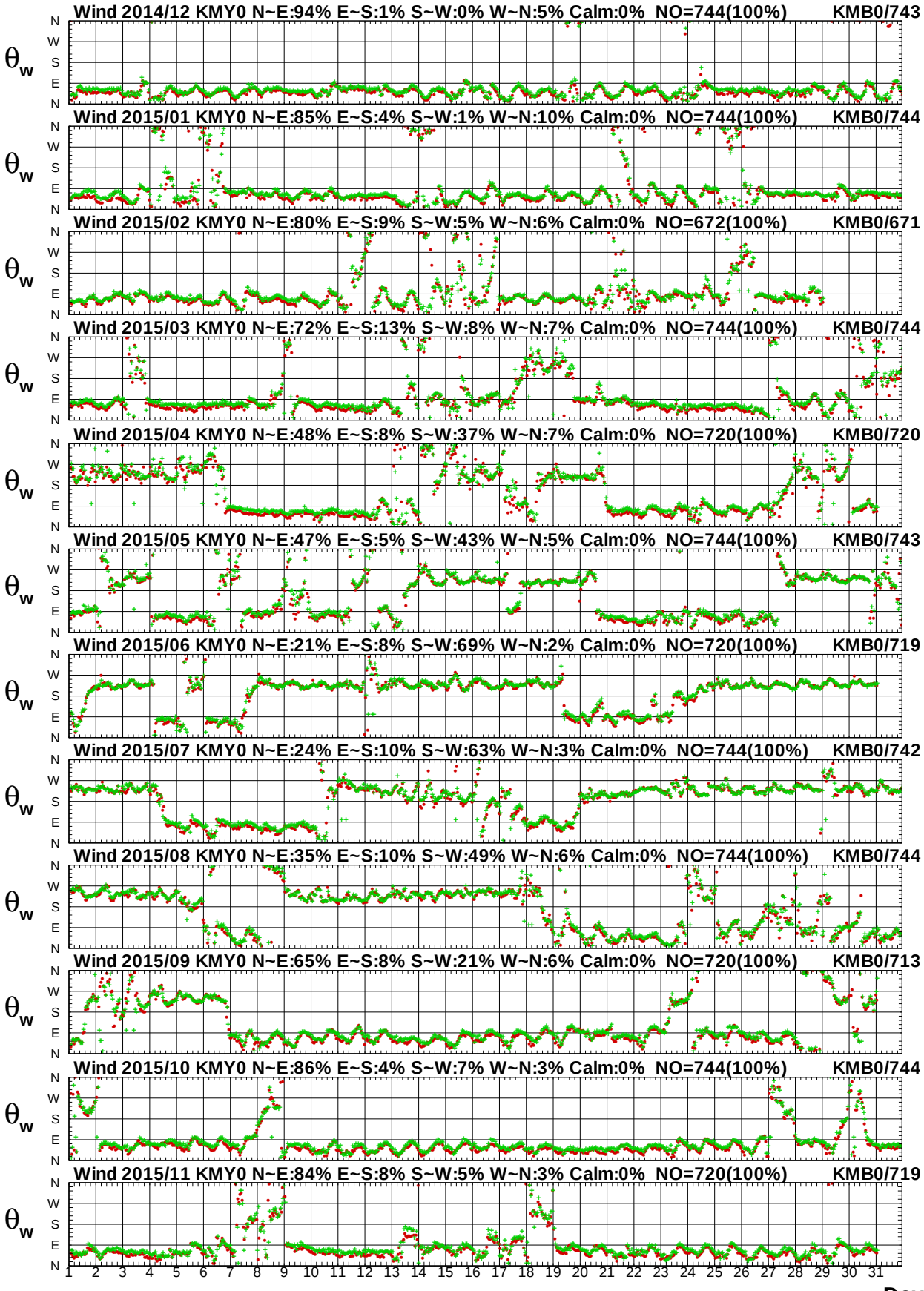

圖11.3b　2015年每月金門海域 Y 站與 B 站風向比較圖

W14CKMY0.1HA W14CKMB0.1H0 W151KMY0.1HA W151KMB0.1H0 W152KMY0.1HA W152KMB0.1H0
W153KMY0.1HA W153KMB0.1H0 W154KMY0.1HA W154KMB0.1H0 W155KMY0.1HA W155KMB0.1H0

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Wind Speed in Kin-Men seas of KMY0 at 2015

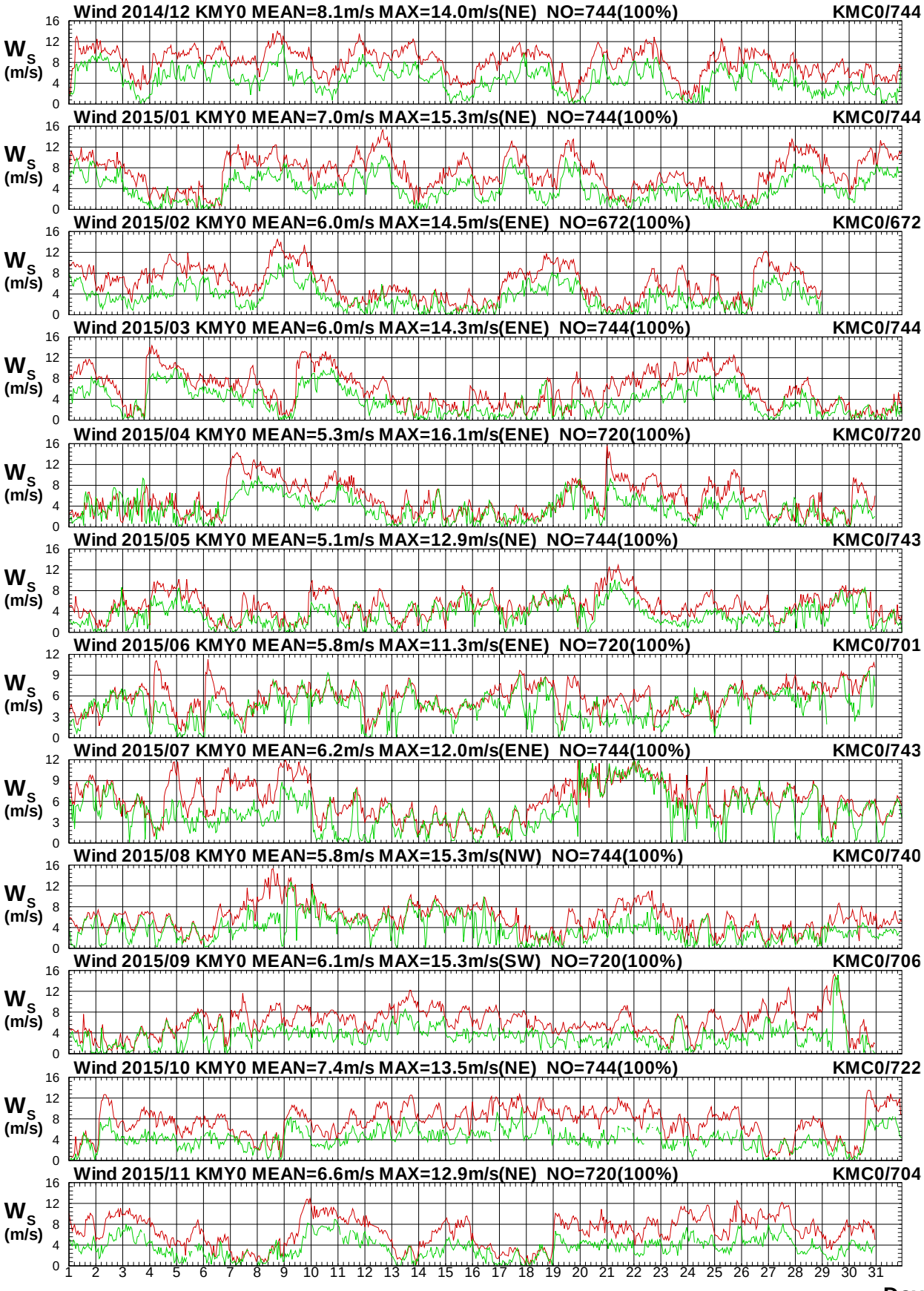

圖11.4a　2015年每月金門海域 Y 站與 C 站風速比較圖

W14CKMY0.1HA W14CKMC0.1H0 W151KMY0.1HA W151KMC0.1H0 W152KMY0.1HA W152KMC0.1H0
W153KMY0.1HA W153KMC0.1H0 W154KMY0.1HA W154KMC0.1H0 W155KMY0.1HA W155KMC0.1H0

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Wind Direction in Kin-Men seas of KMY0 at 2015

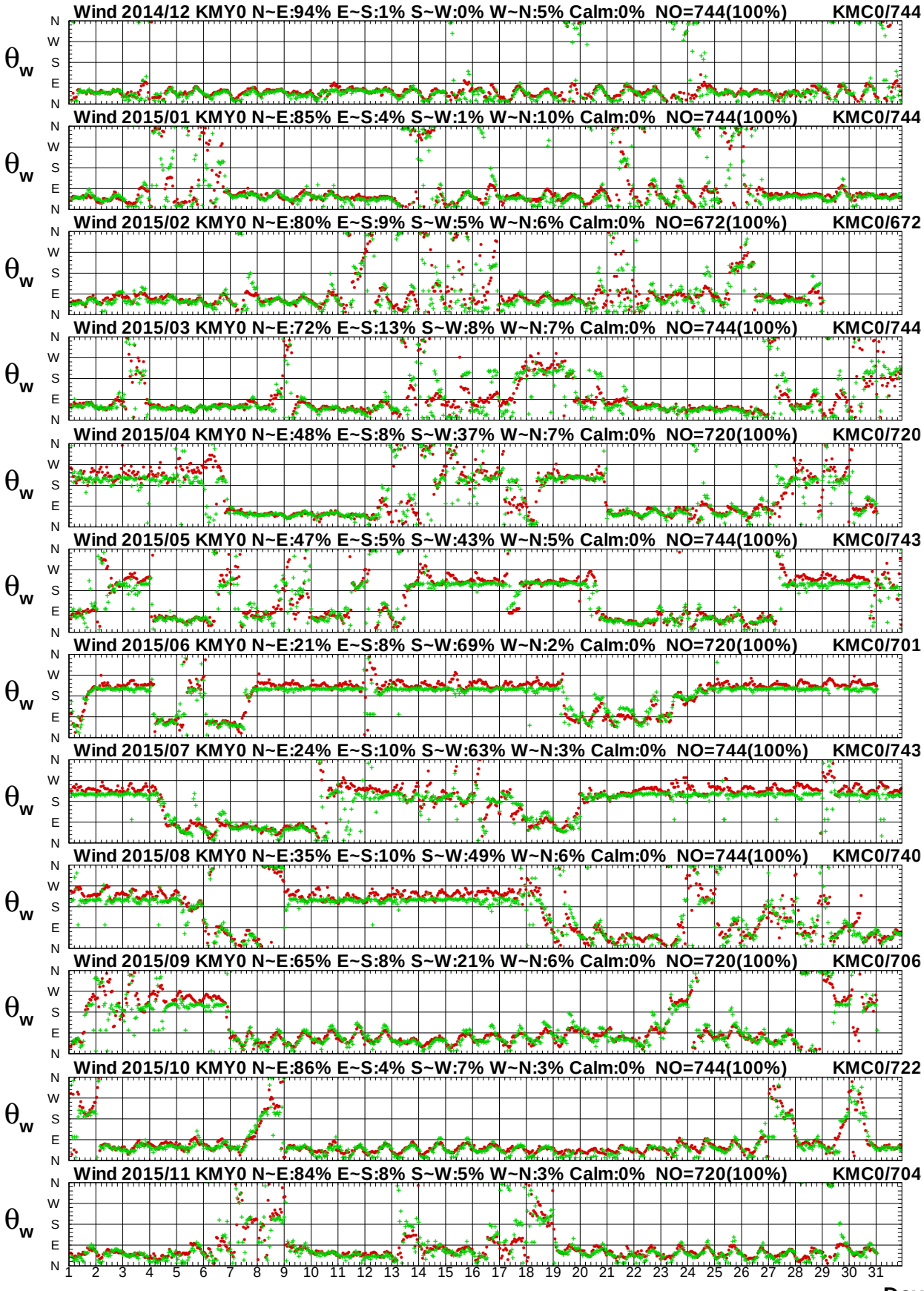

圖11.4b　2015年每月金門海域 Y 站與 C 站風向比較圖

W14CKMY0.1HA W14CKMC0.1H0 W151KMY0.1HA W151KMC0.1H0 W152KMY0.1HA W152KMC0.1H0
W153KMY0.1HA W153KMC0.1H0 W154KMY0.1HA W154KMC0.1H0 W155KMY0.1HA W155KMC0.1H0

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Wind Speed in Kin-Men seas of KMY0 at 2015

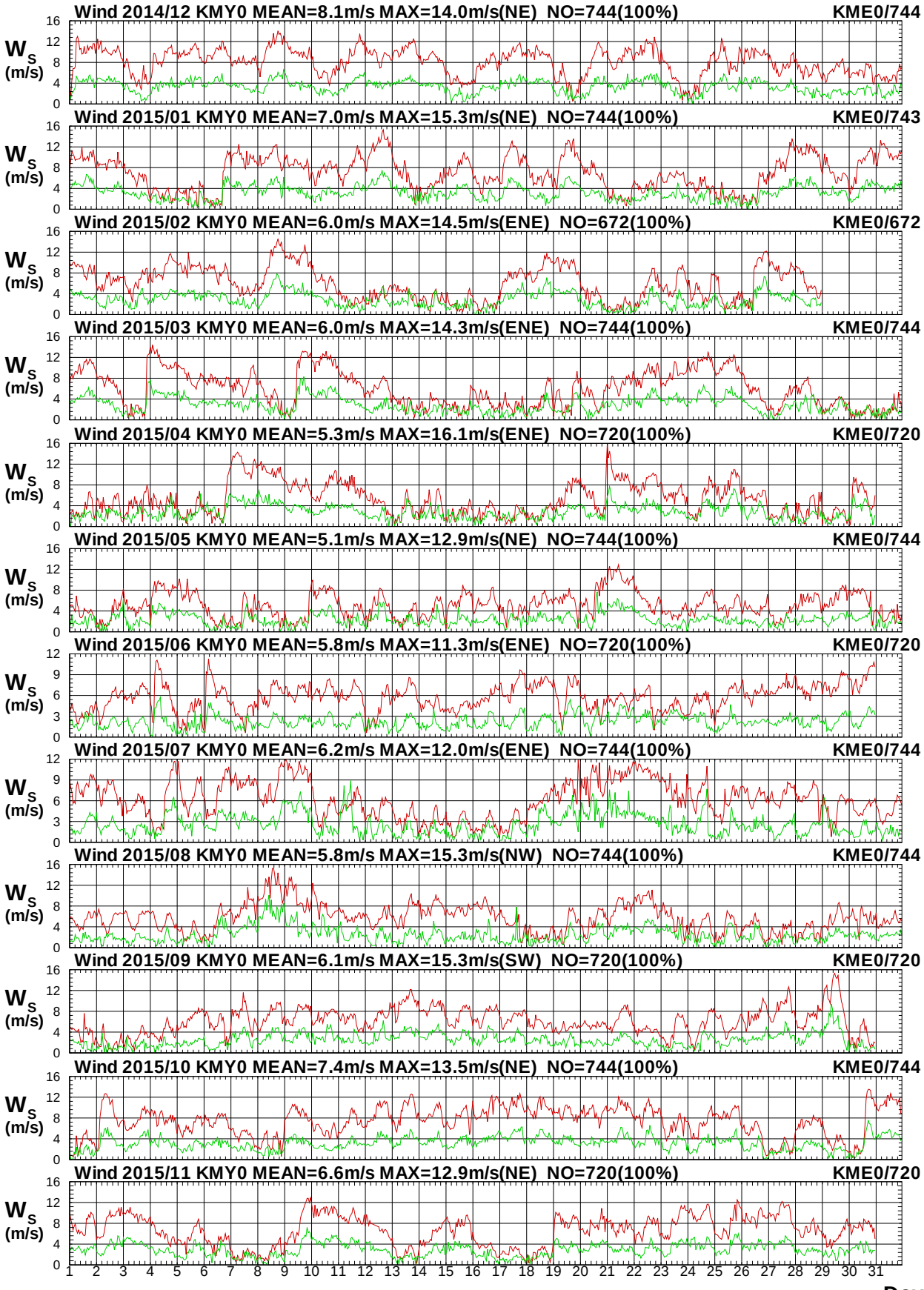

圖11.5a　2015年每月金門海域 Y 站與 E 站風速比較圖

W14CKMY0.1HA W14CKME0.1H0 W151KMY0.1HA W151KME0.1H0 W152KMY0.1HA W152KME0.1H0
W153KMY0.1HA W153KME0.1H0 W154KMY0.1HA W154KME0.1H0 W155KMY0.1HA W155KME0.1H0

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Wind Direction in Kin-Men seas of KMY0 at 2015

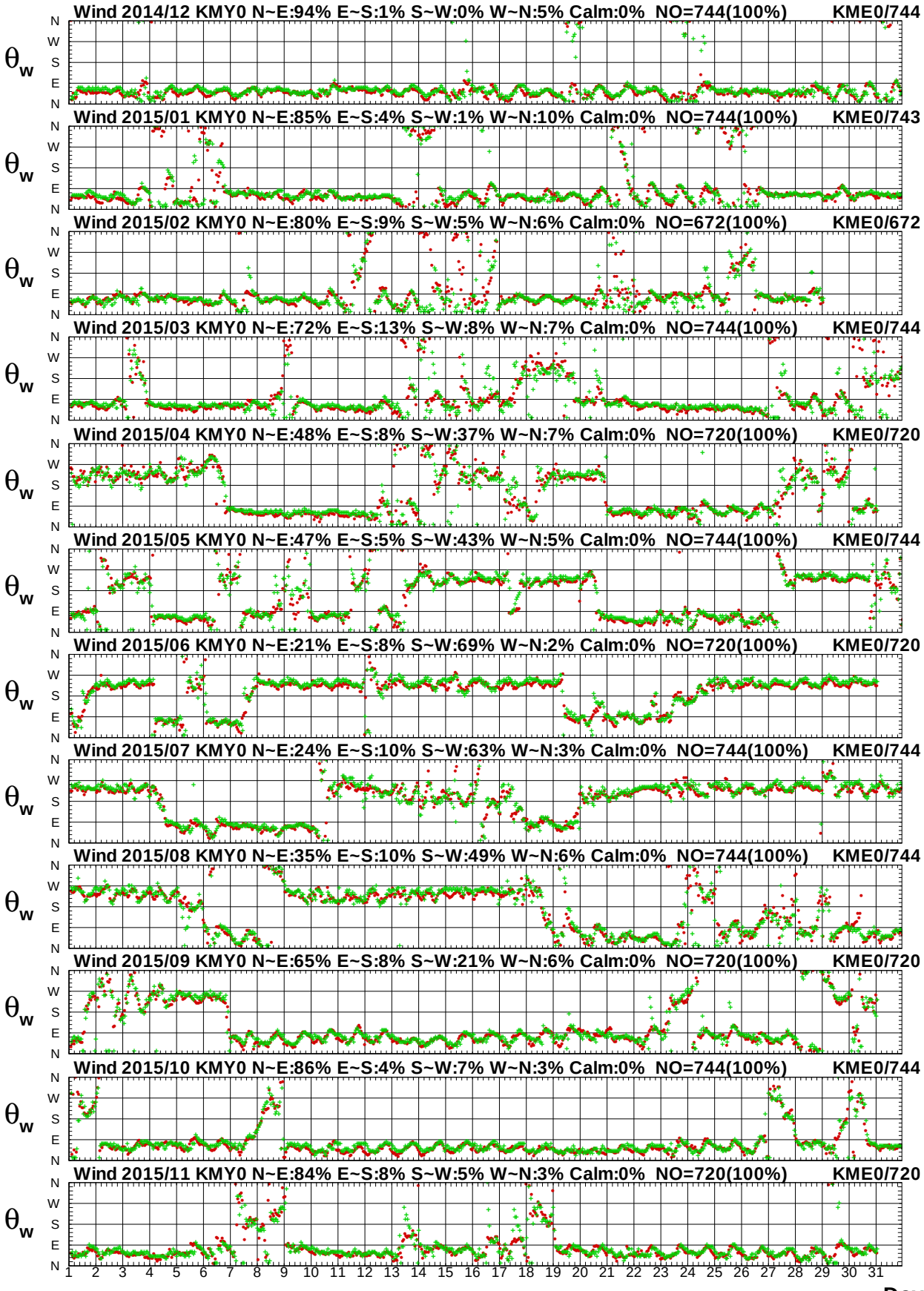

圖11.5b　2015年每月金門海域 Y 站與 E 站風向比較圖

Wind Speed in Kin-Men seas of KMY0 at 2015

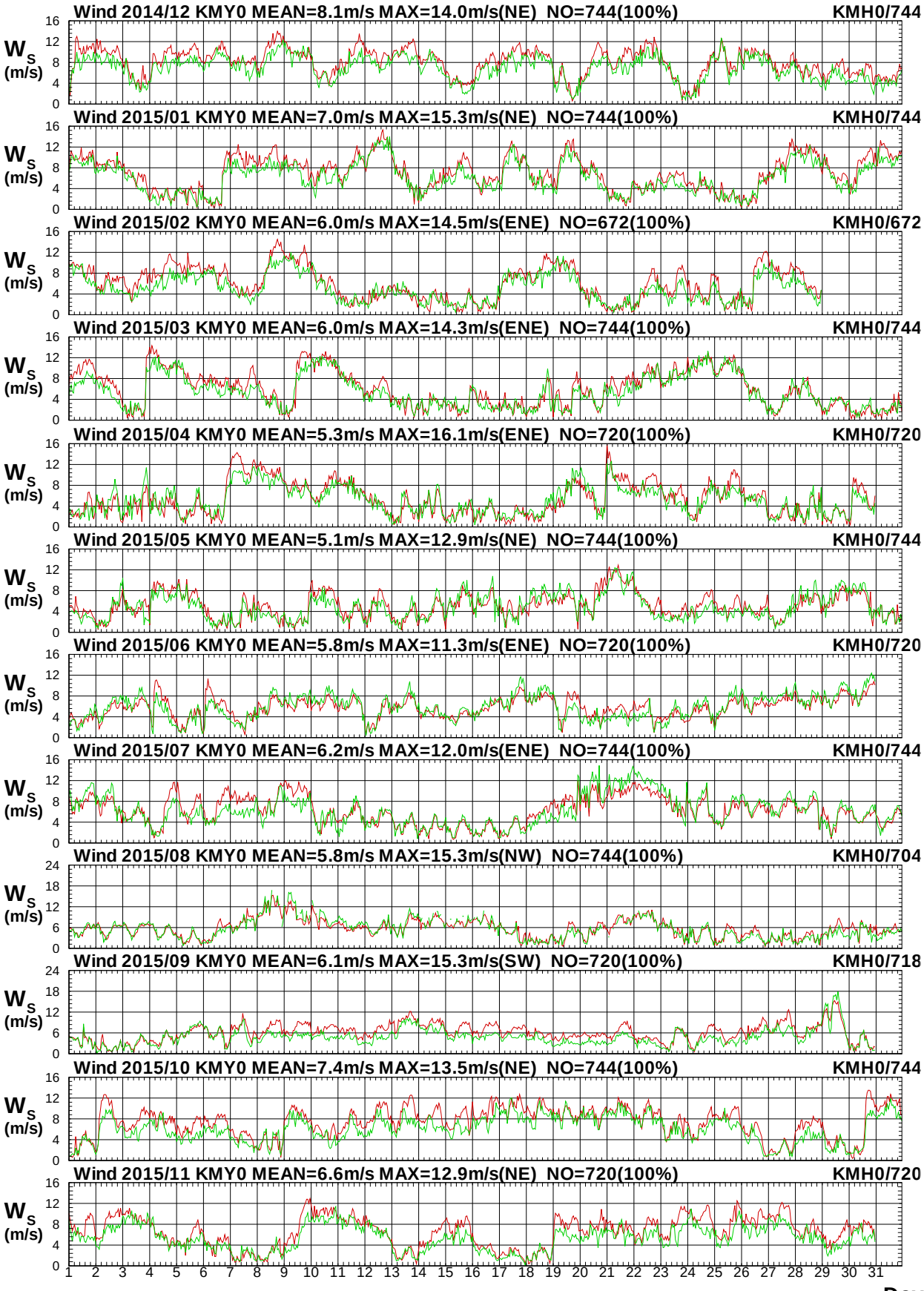

圖11.6a　2015年每月金門海域 Y 站與 H 站風速比較圖

W14CKMY0.1HA W14CKMH0.1H0 W151KMY0.1HA W151KMH0.1H0 W152KMY0.1HA W152KMH0.1H0
W153KMY0.1HA W153KMH0.1H0 W154KMY0.1HA W154KMH0.1H0 W155KMY0.1HA W155KMH0.1H0

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Wind Direction in Kin-Men seas of KMY0 at 2015

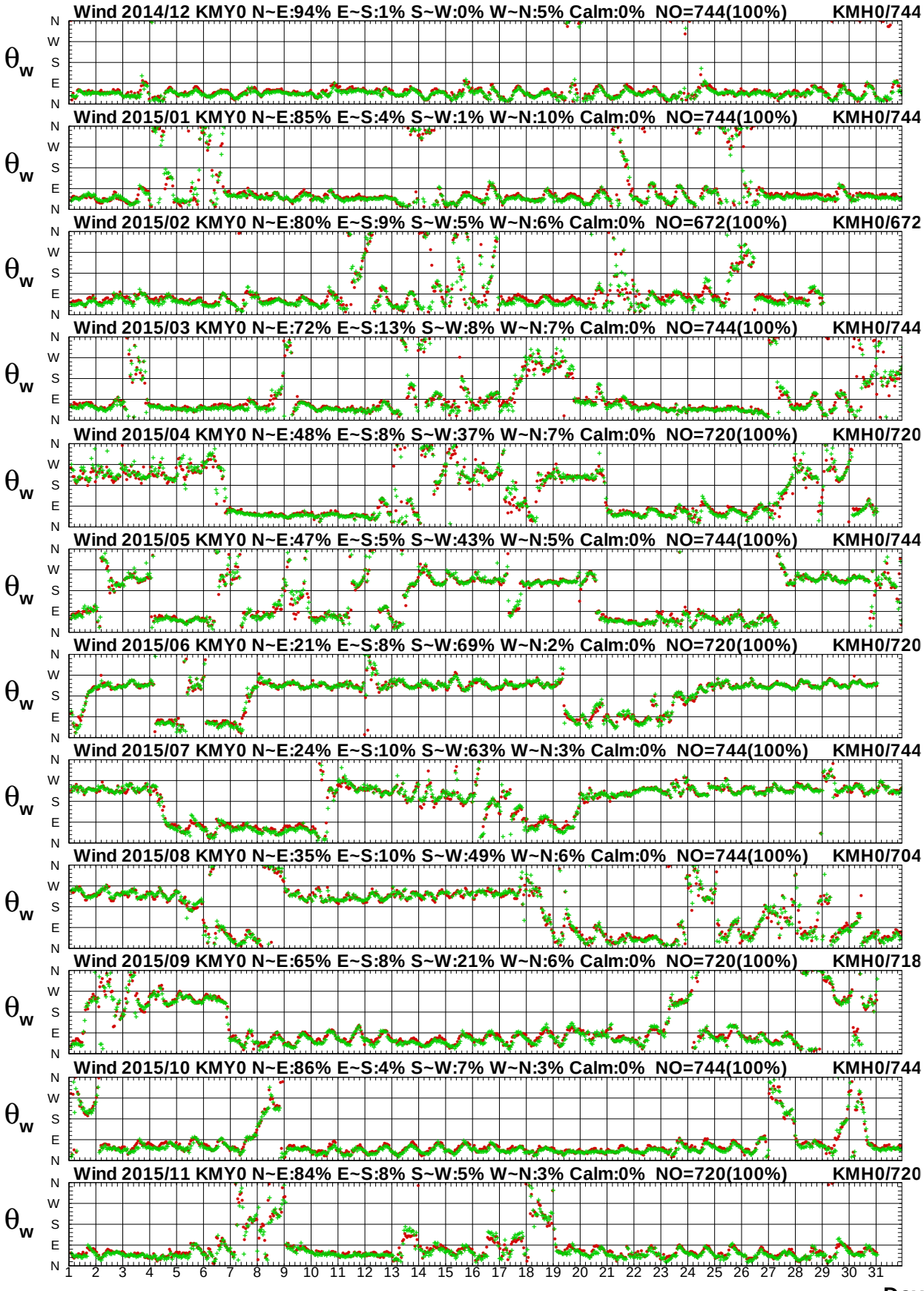

圖11.6b　2015年每月金門海域 Y 站與 H 站風向比較圖

Wind Speed in Kin-Men seas of KMY0 at 2015

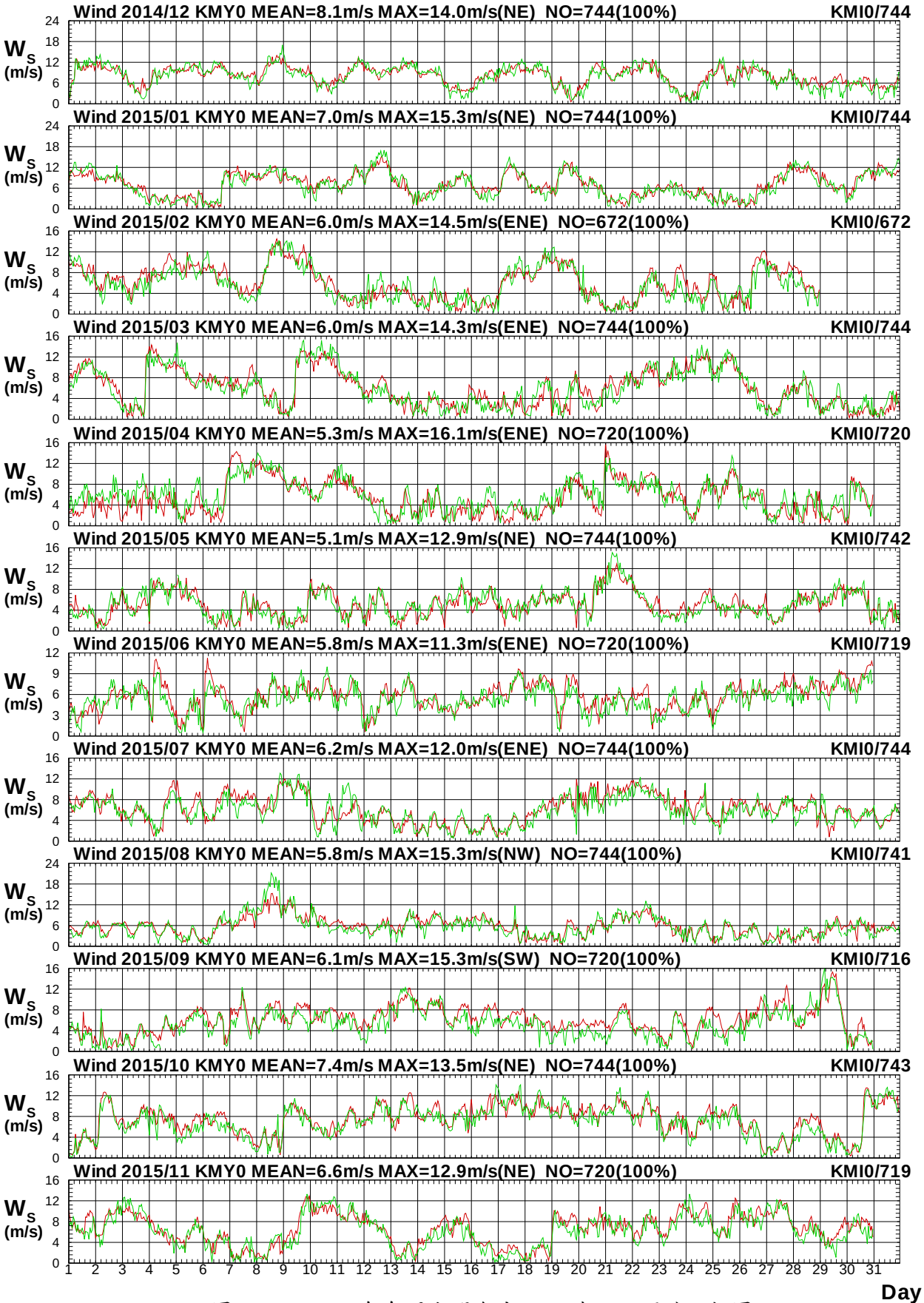

圖11.7a　2015年每月金門海域 Y 站與 I 站風速比較圖

W14CKMY0.1HA W14CKMI0.1H0 W151KMY0.1HA W151KMI0.1H0 W152KMY0.1HA W152KMI0.1H0
W153KMY0.1HA W153KMI0.1H0 W154KMY0.1HA W154KMI0.1H0 W155KMY0.1HA W155KMI0.1H0

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Wind Direction in Kin-Men seas of KMY0 at 2015

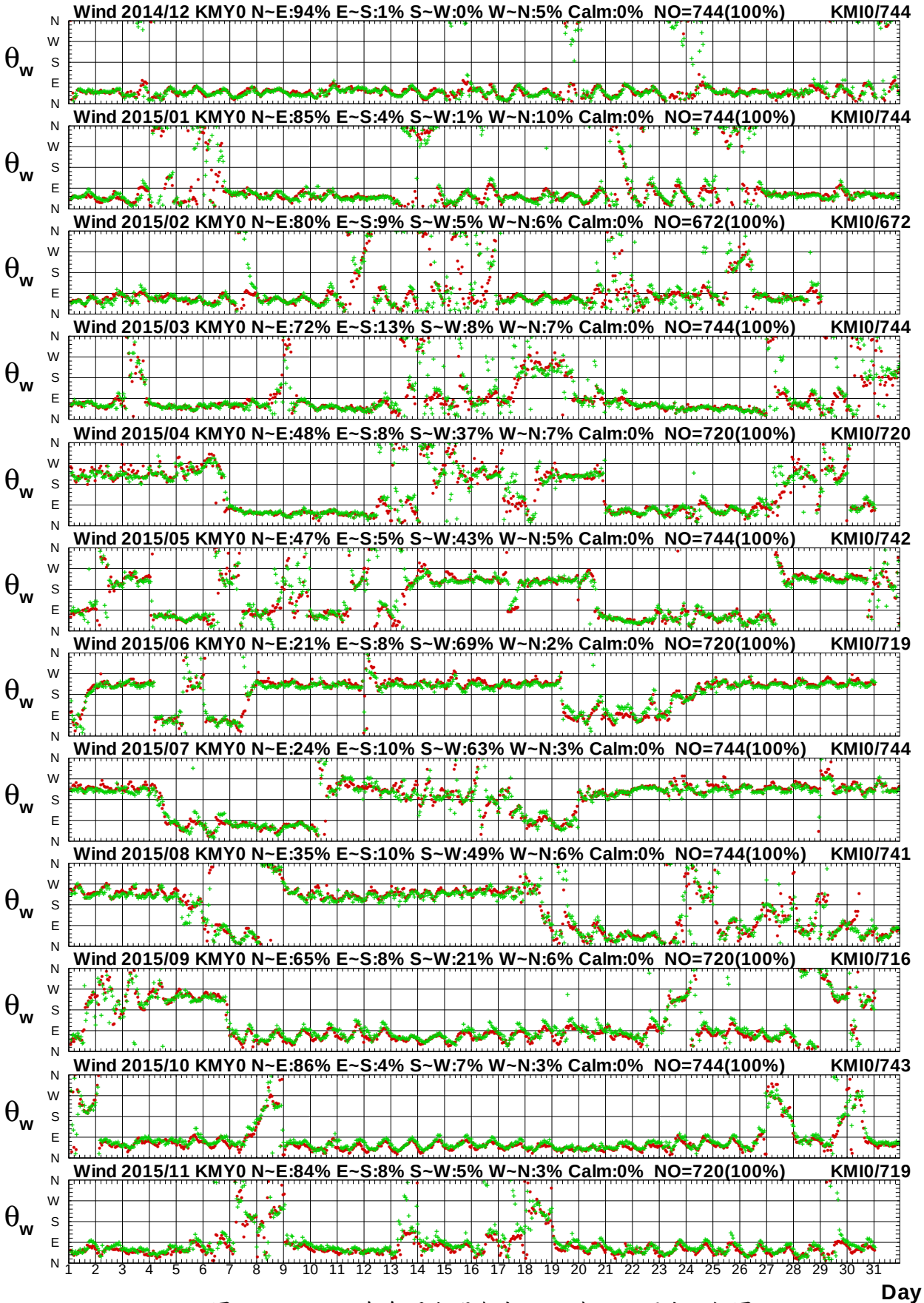

圖11.7b　2015年每月金門海域 Y 站與 I 站風向比較圖

Wind Speed in Kin-Men seas of KMY0 at 2015

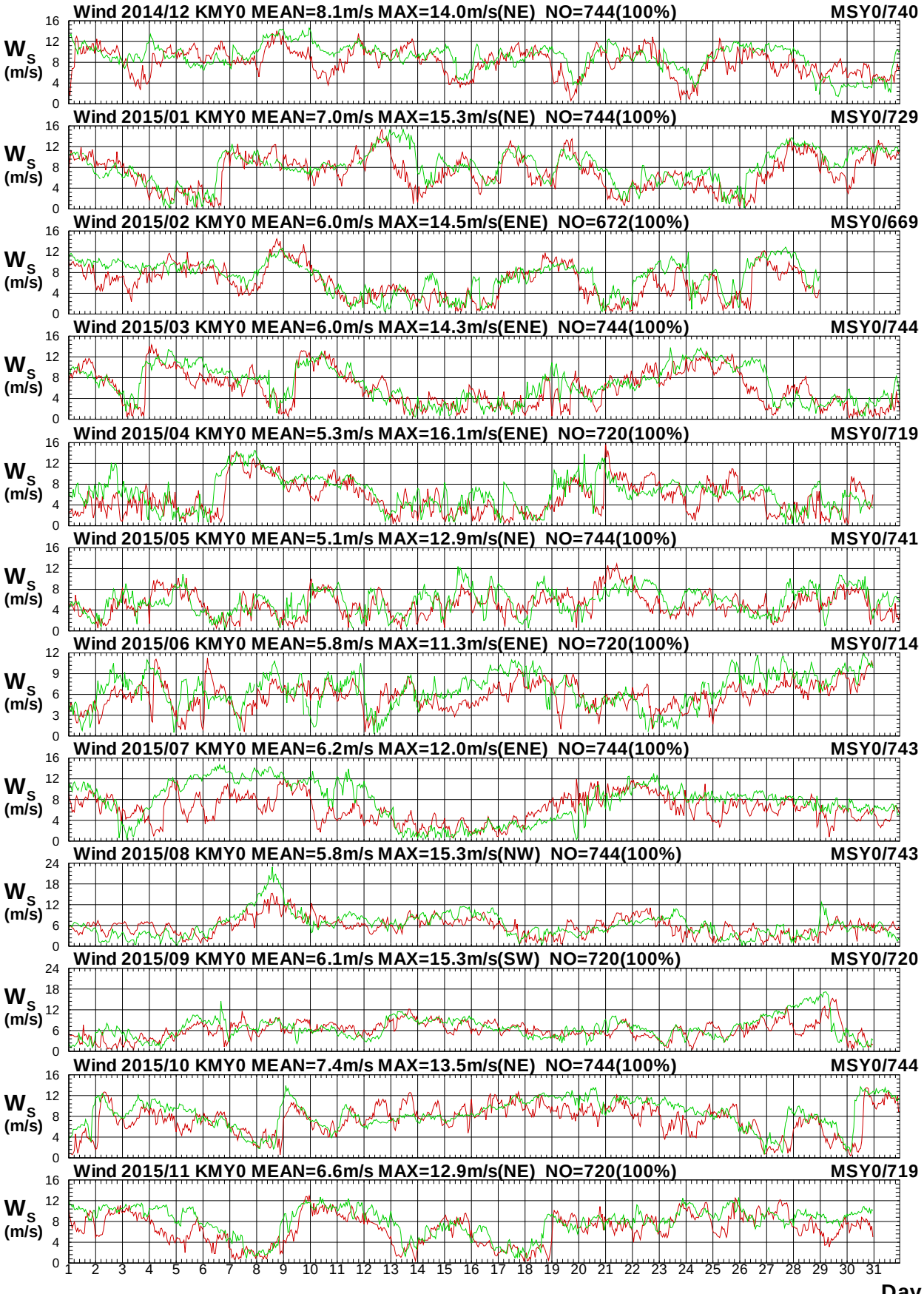

圖11.8a　2015年每月金門海域 Y 站與馬祖海域 Y 站風速圖

W14CKMY0.1HA W14CMSY0.1H0 W151KMY0.1HA W151MSY0.1H0 W152KMY0.1HA W152MSY0.1H0
W153KMY0.1HA W153MSY0.1H0 W154KMY0.1HA W154MSY0.1H0 W155KMY0.1HA W155MSY0.1H0

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Wind Direction in Kin-Men seas of KMY0 at 2015

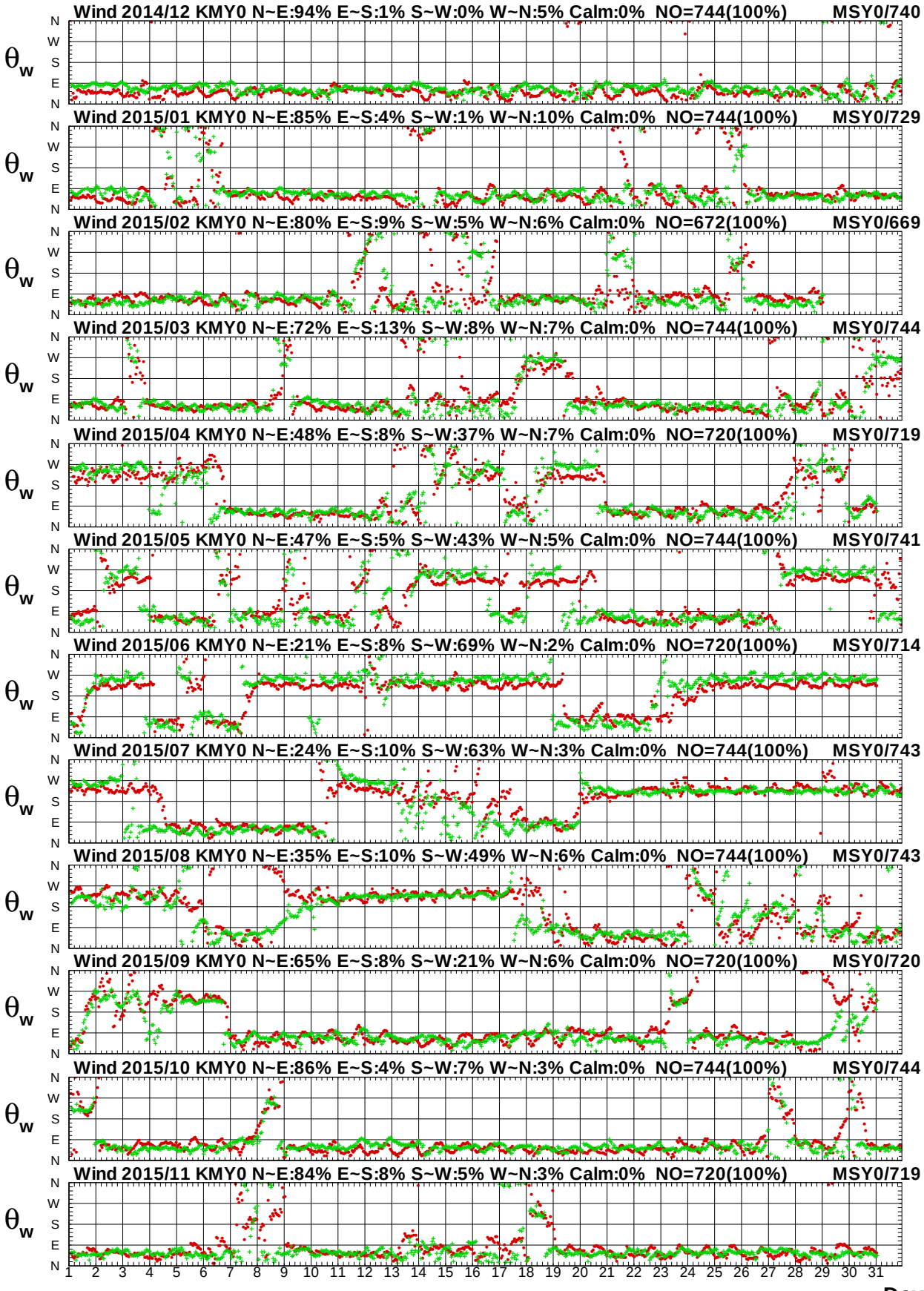

圖11.8b　2015年每月金門海域 Y 站與馬祖海域 Y 站風向圖

Wind Speed in Kin-Men seas of KMY0 at 2015

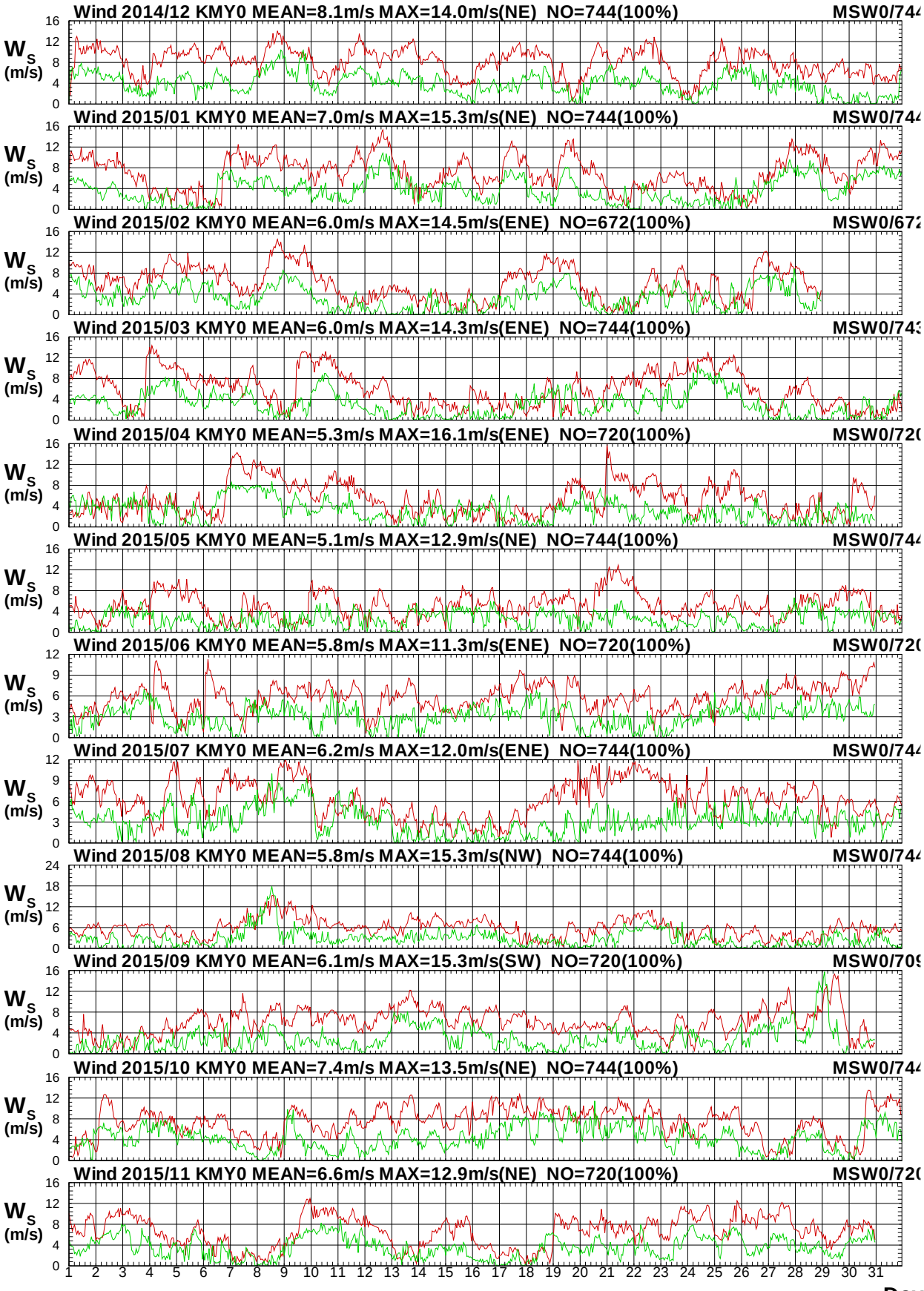

圖11.9a　2015年每月金門海域 Y 站與馬祖海域 W 站風速圖

W14CKMY0.1HA W14CMSW0.1H0 W151KMY0.1HA W151MSW0.1H0 W152KMY0.1HA W152MSW0.1H0
W153KMY0.1HA W153MSW0.1H0 W154KMY0.1HA W154MSW0.1H0 W155KMY0.1HA W155MSW0.1H0

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Wind Direction in Kin-Men seas of KMY0 at 2015

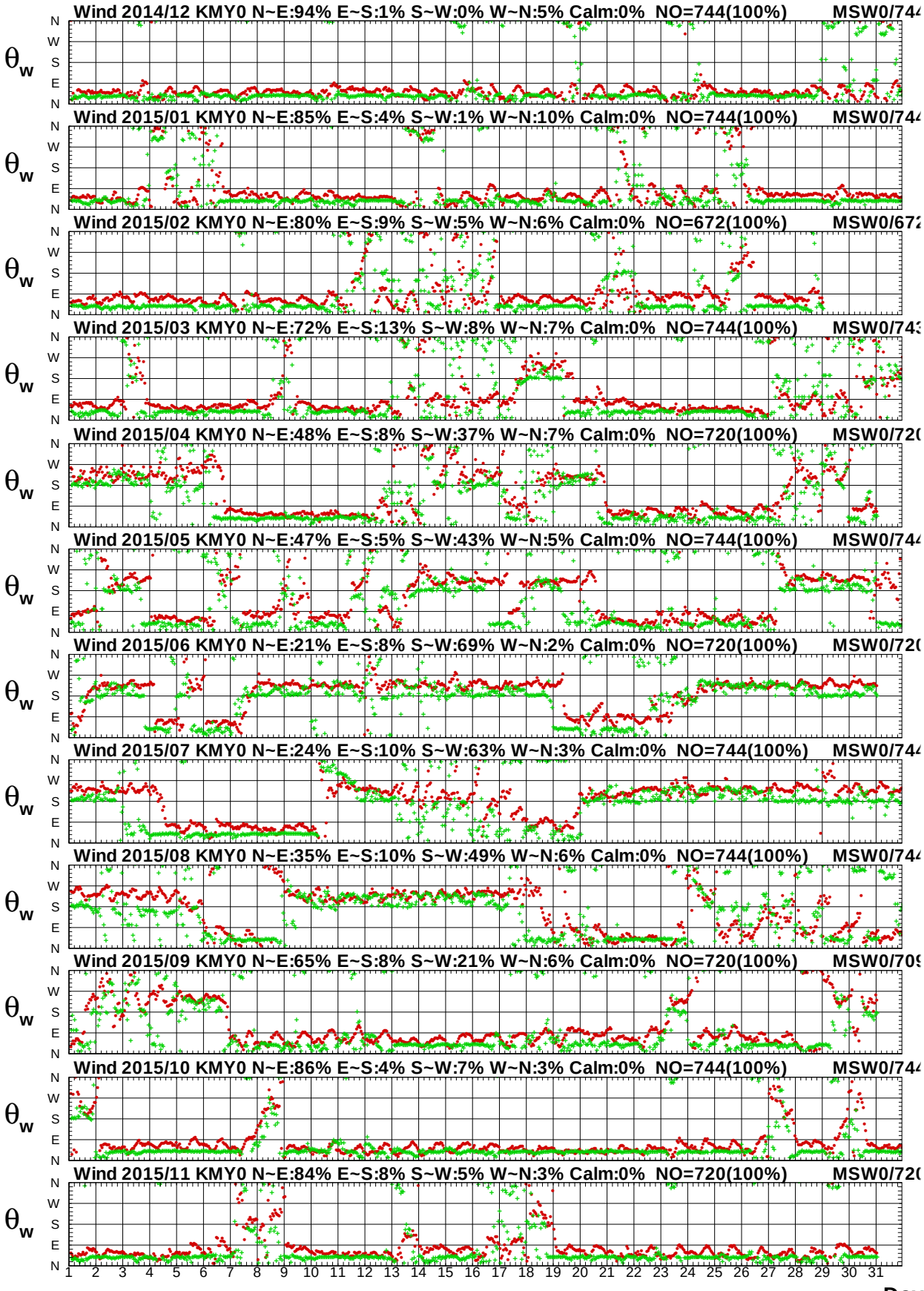

圖11.9b　2015年每月金門海域 Y 站與馬祖海域 W 站風向圖

W14CKMY0.1HA W14CMSW0.1H0 W151KMY0.1HA W151MSW0.1H0 W152KMY0.1HA W152MSW0.1H0
W153KMY0.1HA W153MSW0.1H0 W154KMY0.1HA W154MSW0.1H0 W155KMY0.1HA W155MSW0.1H0

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Wind Speed in Kin-Men seas of KMY0 at 2015

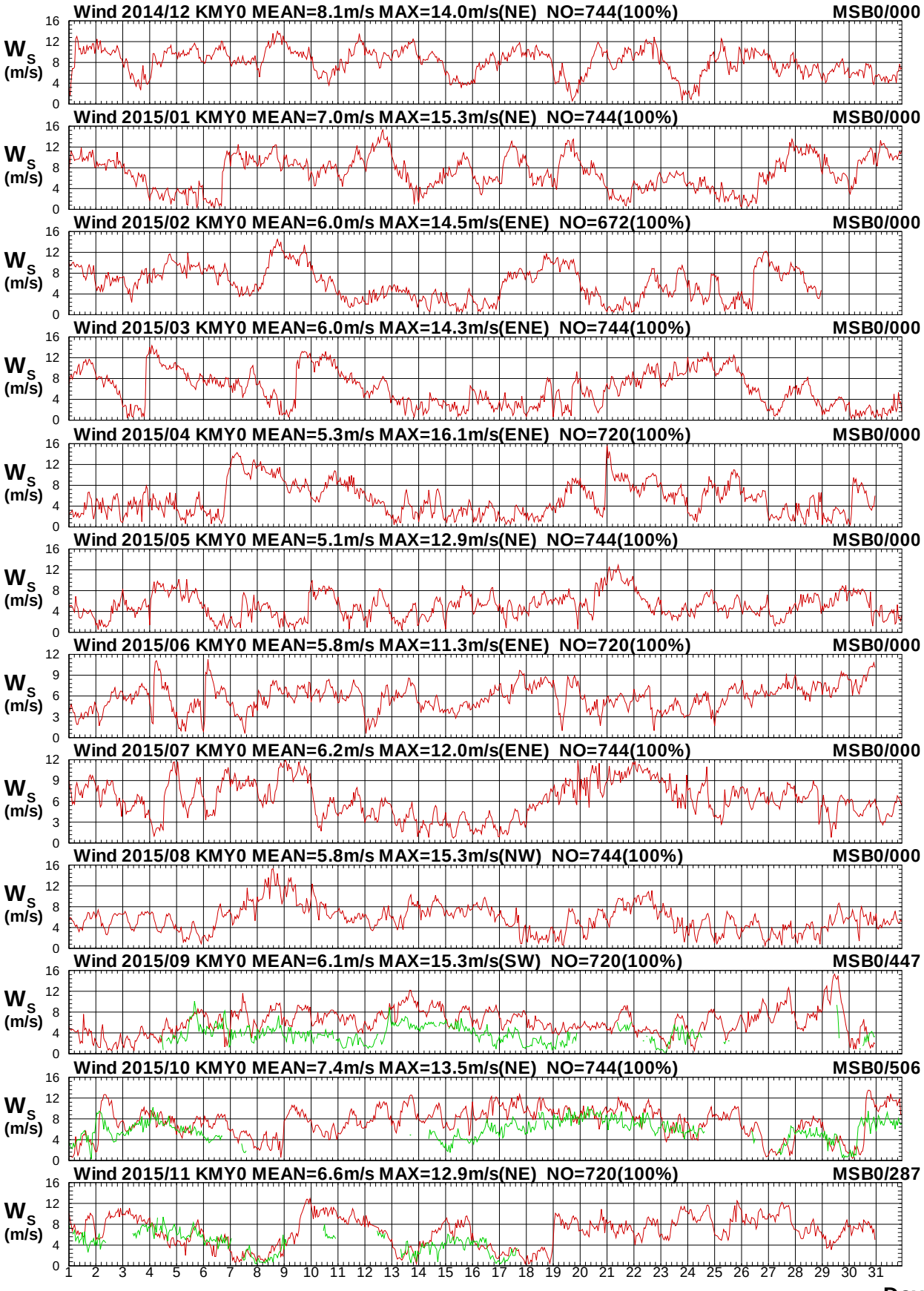

圖 11.10a　2015年每月金門海域 Y 站與馬祖海域 B 站風速圖

W14CKMY0.1HA W14CMSB0.1H0 W151KMY0.1HA W151MSB0.1H0 W152KMY0.1HA W152MSB0.1H0
W153KMY0.1HA W153MSB0.1H0 W154KMY0.1HA W154MSB0.1H0 W155KMY0.1HA W155MSB0.1H0

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Wind Direction in Kin-Men seas of KMY0 at 2015

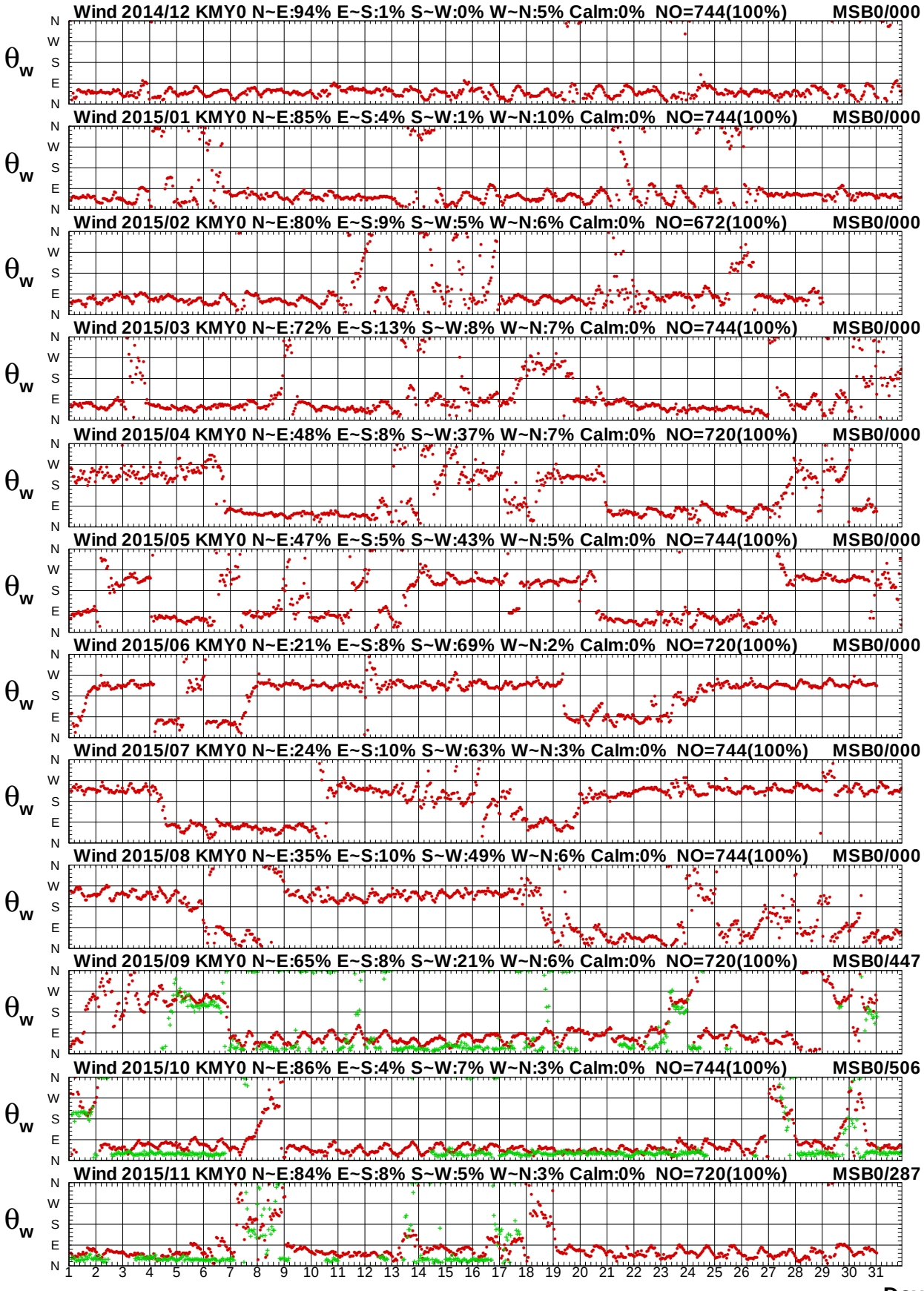

圖 11.10b　2015年每月金門海域 Y 站與馬祖海域 B 站風向圖

Wind Speed in Kin-Men seas of KMY0 at 2015

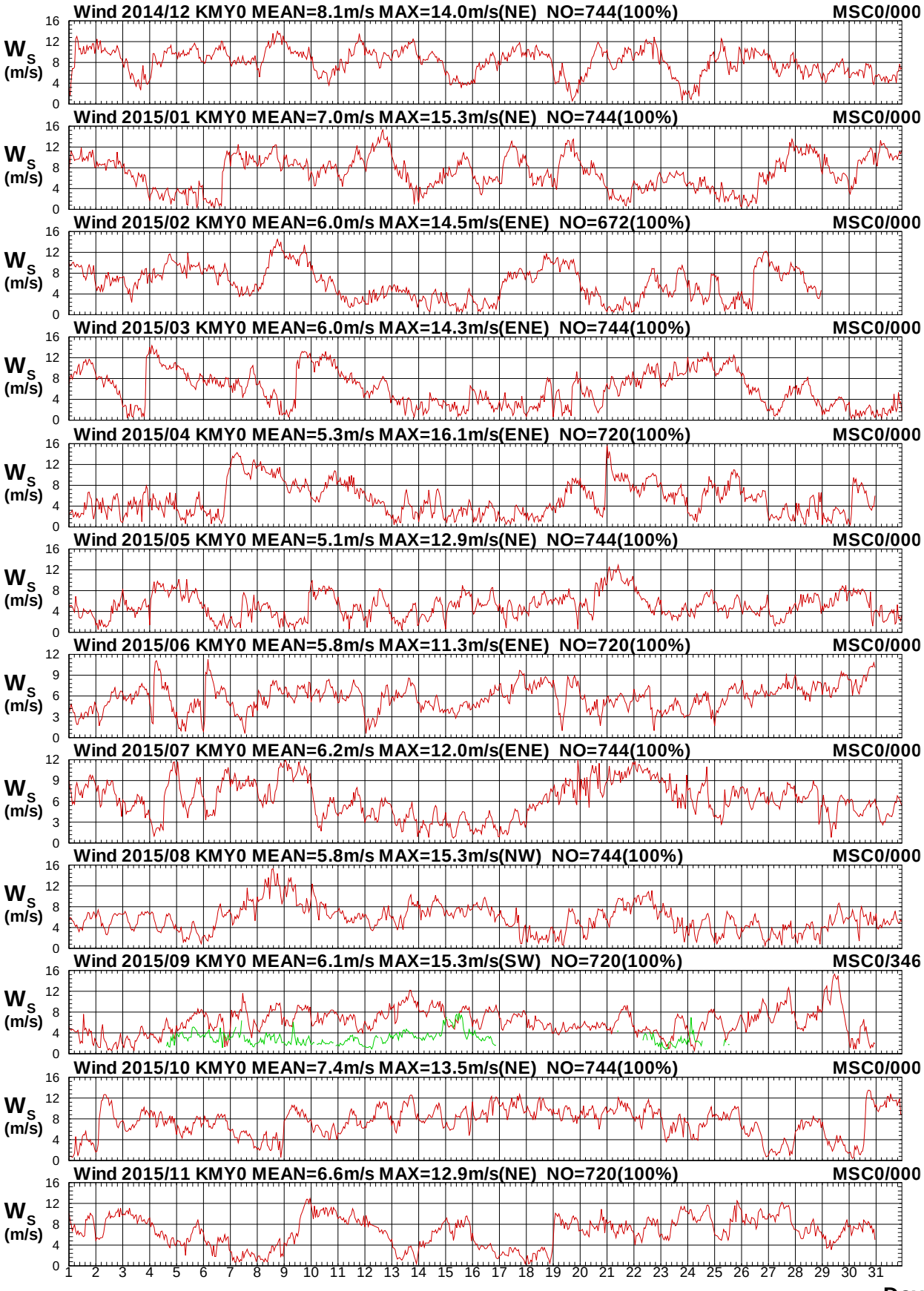

圖 11.11a　2015年每月金門海域 Y 站與馬祖海域 C 站風速圖

W14CKMY0.1HA W14CMSC0.1H0 W151KMY0.1HA W151MSC0.1H0 W152KMY0.1HA W152MSC0.1H0
W153KMY0.1HA W153MSC0.1H0 W154KMY0.1HA W154MSC0.1H0 W155KMY0.1HA W155MSC0.1H0

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Wind Direction in Kin-Men seas of KMY0 at 2015

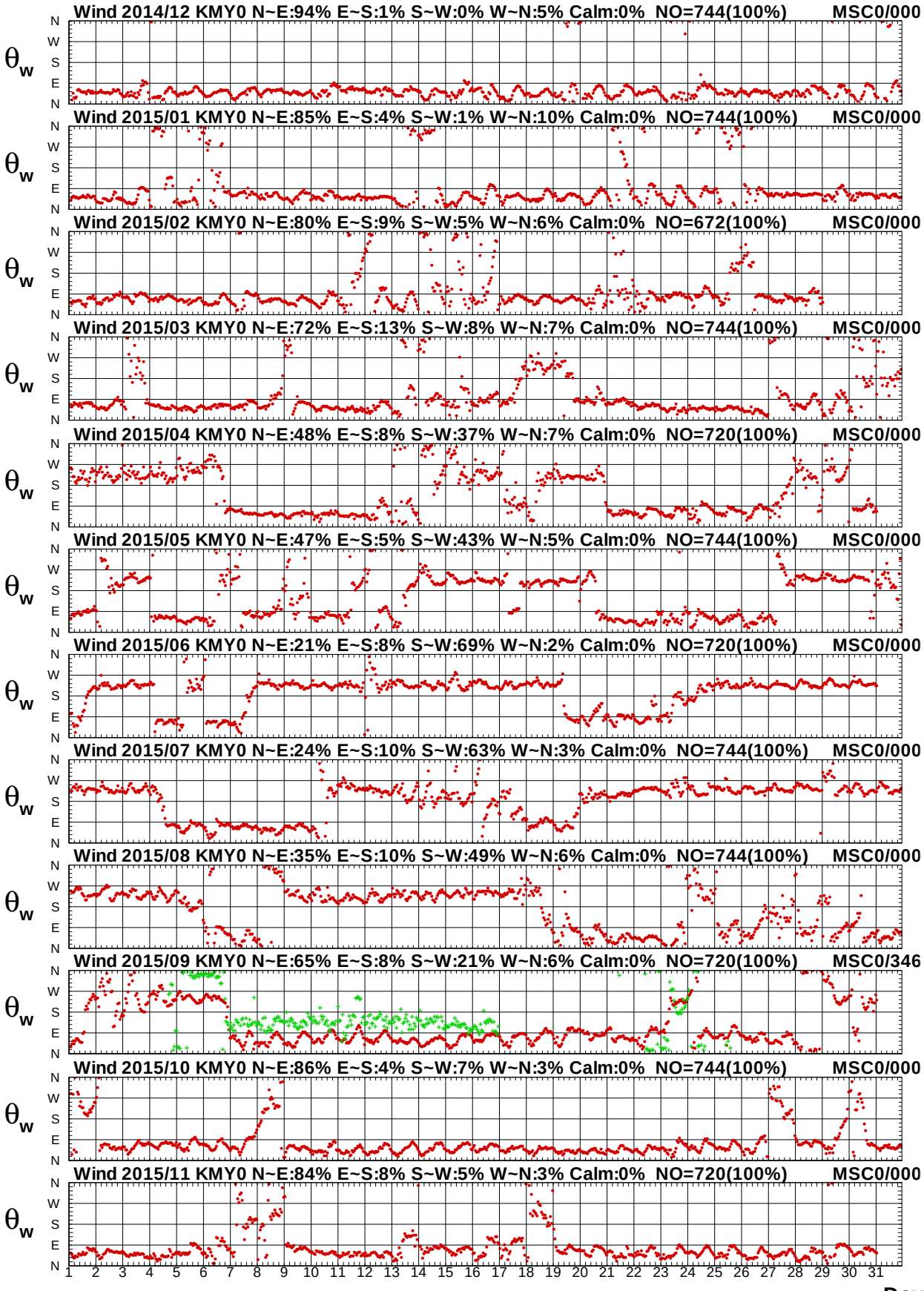

圖 11.11b　2015年每月金門海域 Y 站與馬祖海域 C 站風向圖

Wind Speed in Kin-Men seas of KMY0 at 2015

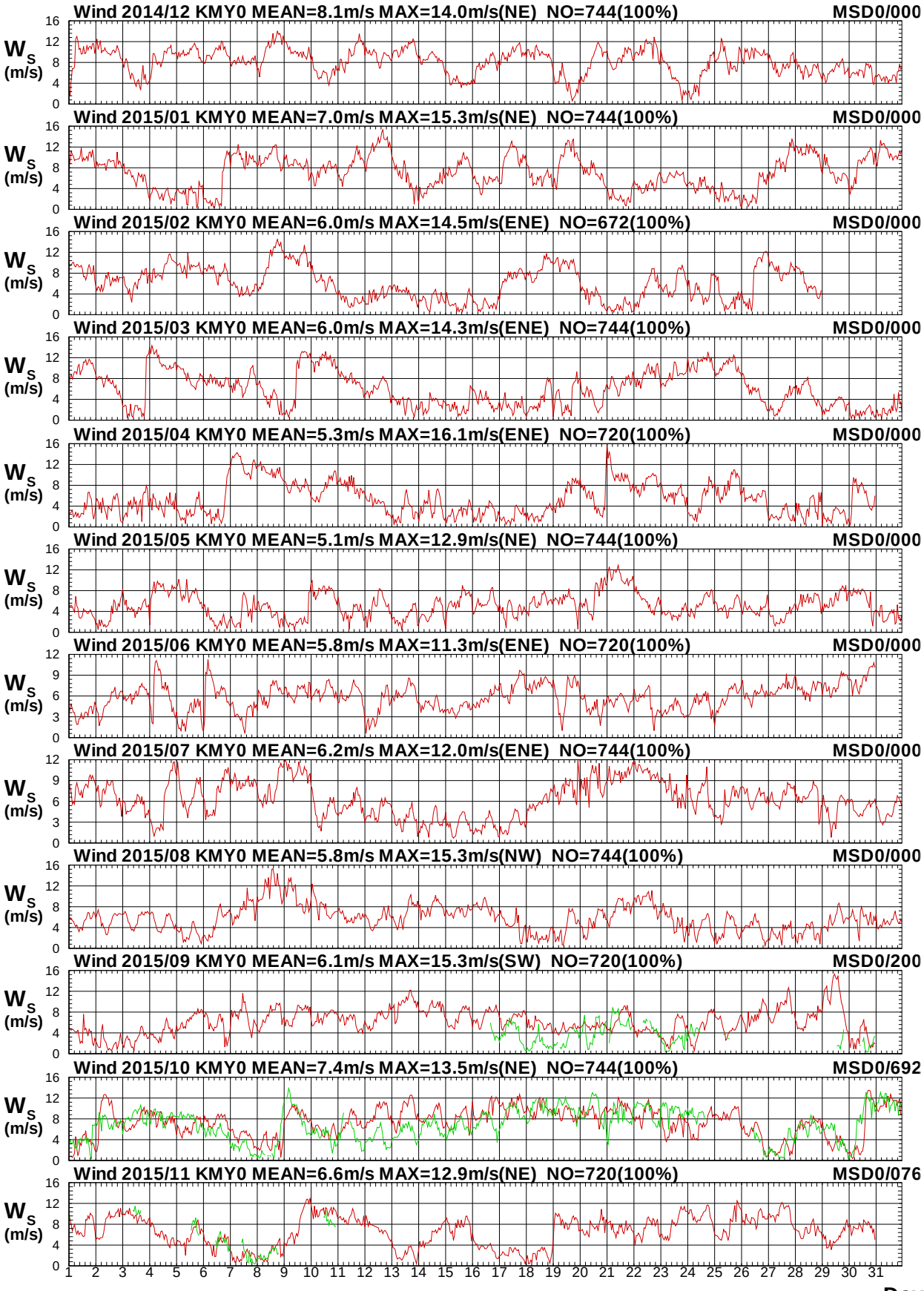

圖 11.12a　2015年每月金門海域 Y 站與馬祖海域 D 站風速圖

W14CKMY0.1HA W14CMSD0.1H0 W151KMY0.1HA W151MSD0.1H0 W152KMY0.1HA W152MSD0.1H0
W153KMY0.1HA W153MSD0.1H0 W154KMY0.1HA W154MSD0.1H0 W155KMY0.1HA W155MSD0.1H0

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Wind Direction in Kin-Men seas of KMY0 at 2015

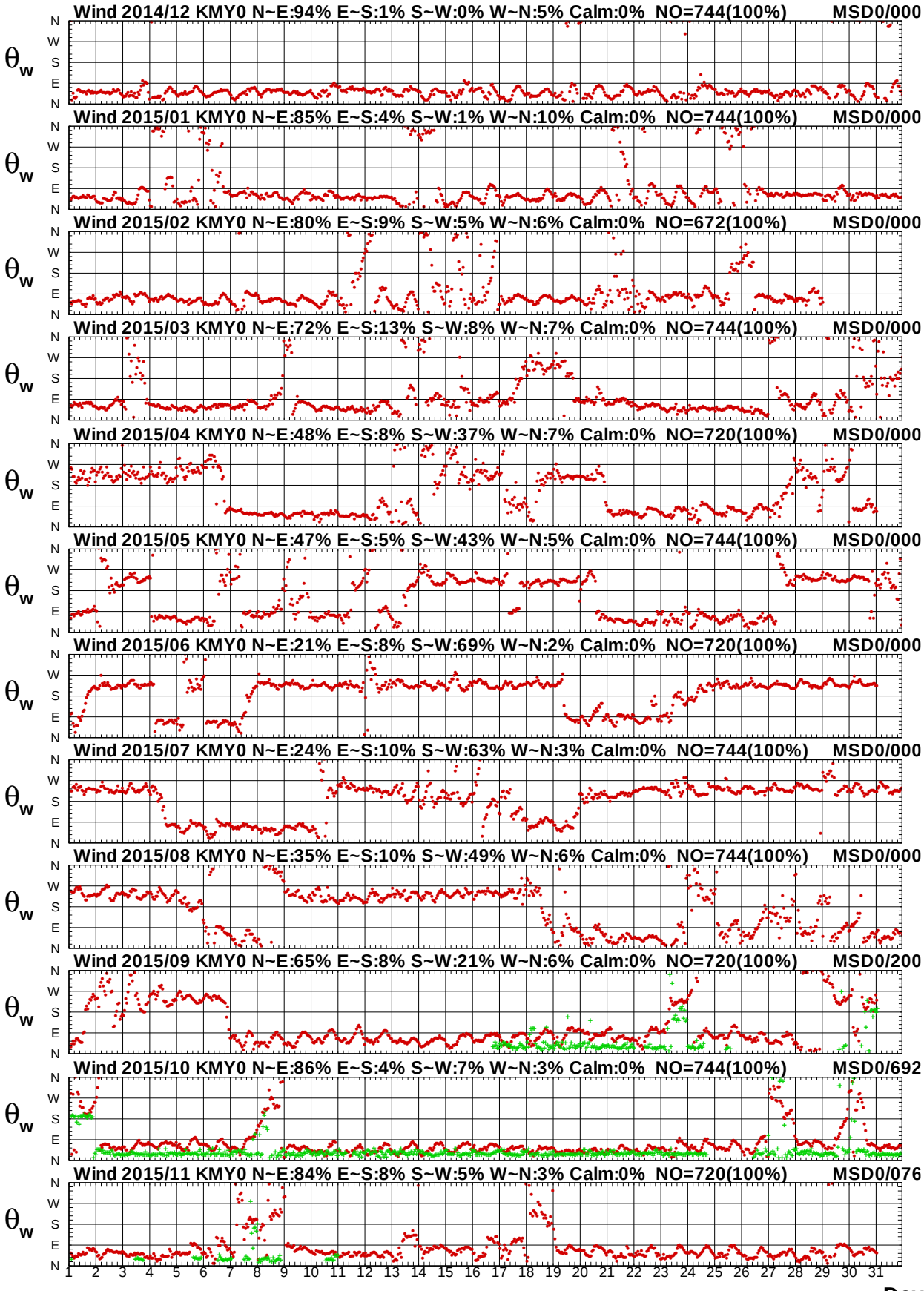

圖 11.12b　2015年每月金門海域 Y 站與馬祖海域 D 站風向圖

W14CKMY0.1HA W14CMSD0.1H0 W151KMY0.1HA W151MSD0.1H0 W152KMY0.1HA W152MSD0.1H0
W153KMY0.1HA W153MSD0.1H0 W154KMY0.1HA W154MSD0.1H0 W155KMY0.1HA W155MSD0.1H0

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Wind Speed in Kin-Men seas of KMY0 at 2015

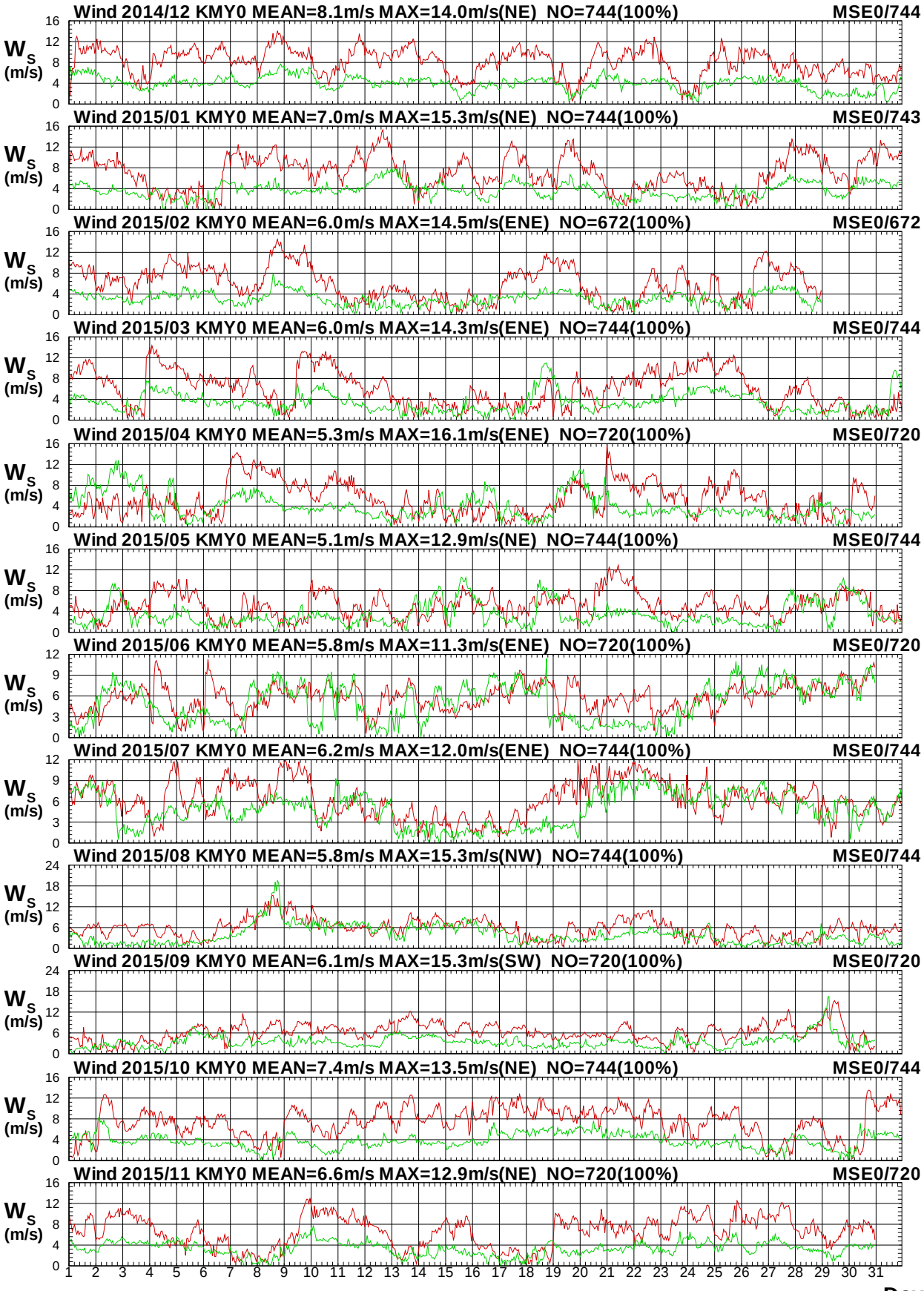

圖 11.13a　2015年每月金門海域 Y 站與馬祖海域 E 站風速圖

W14CKMY0.1HA W14CMSE0.1H0 W151KMY0.1HA W151MSE0.1H0 W152KMY0.1HA W152MSE0.1H0
W153KMY0.1HA W153MSE0.1H0 W154KMY0.1HA W154MSE0.1H0 W155KMY0.1HA W155MSE0.1H0

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Wind Direction in Kin-Men seas of KMY0 at 2015

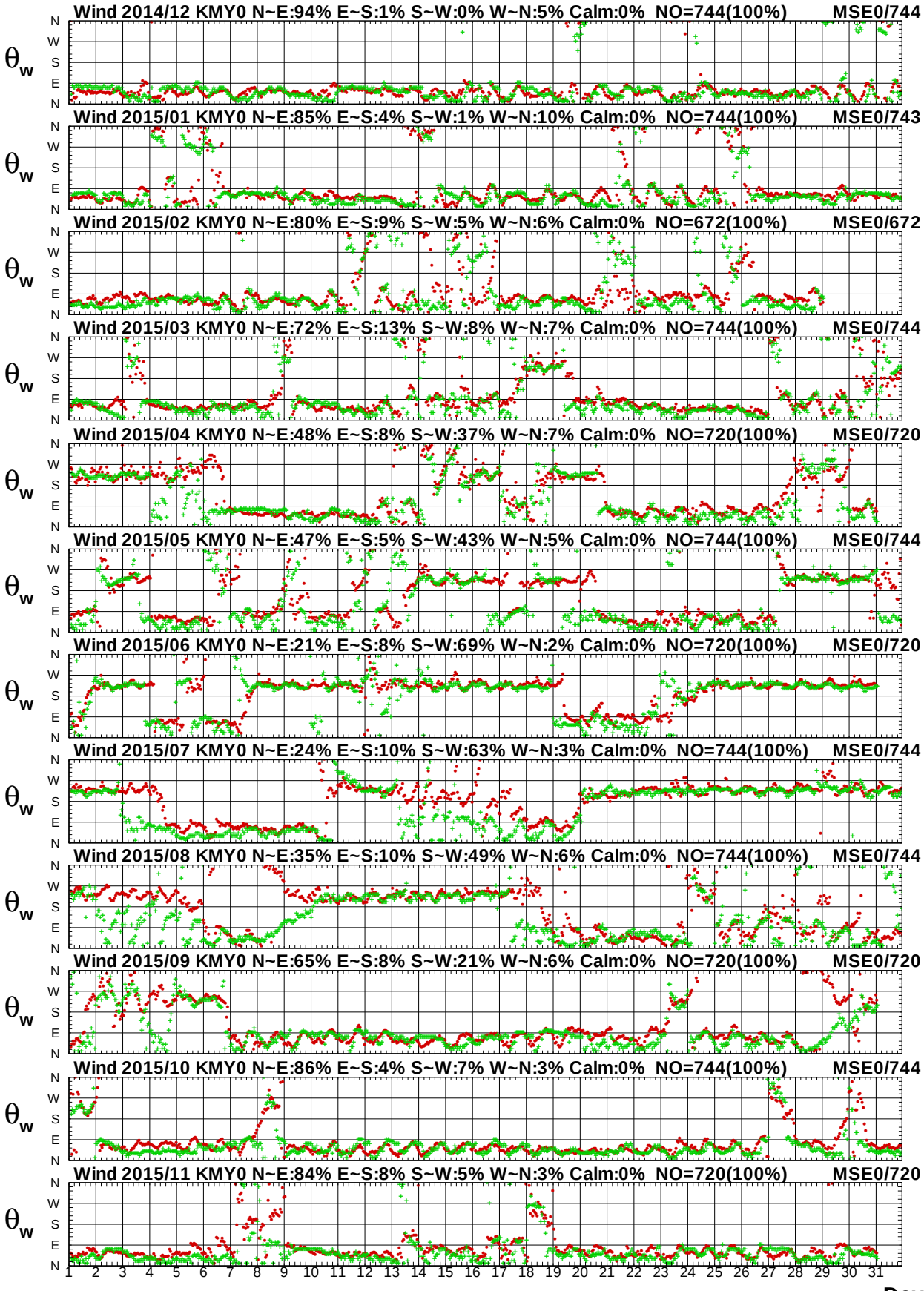

圖 11.13b　2015年每月金門海域 Y 站與馬祖海域 E 站風向圖

W14CKMY0.1HA W14CMSE0.1H0 W151KMY0.1HA W151MSE0.1H0 W152KMY0.1HA W152MSE0.1H0
W153KMY0.1HA W153MSE0.1H0 W154KMY0.1HA W154MSE0.1H0 W155KMY0.1HA W155MSE0.1H0

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Wind Speed in Kin-Men seas of KMY0 at 2015

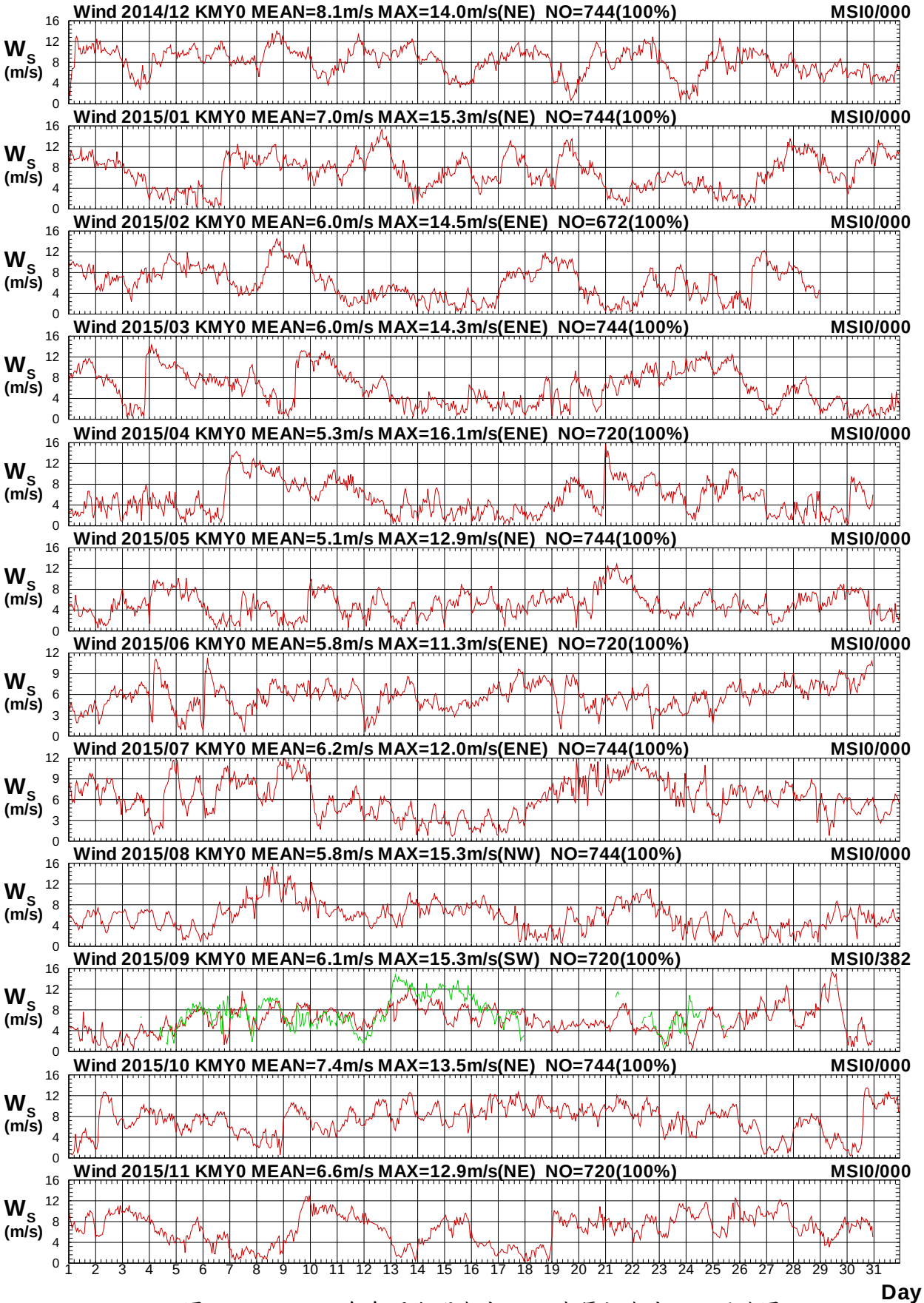

圖11.14a　2015年每月金門海域 Y 站與馬祖海域 I 站風速圖

W14CKMY0.1HA W14CMSI0.1H0 W151KMY0.1HA W151MSI0.1H0 W152KMY0.1HA W152MSI0.1H0
W153KMY0.1HA W153MSI0.1H0 W154KMY0.1HA W154MSI0.1H0 W155KMY0.1HA W155MSI0.1H0

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Wind Direction in Kin-Men seas of KMY0 at 2015

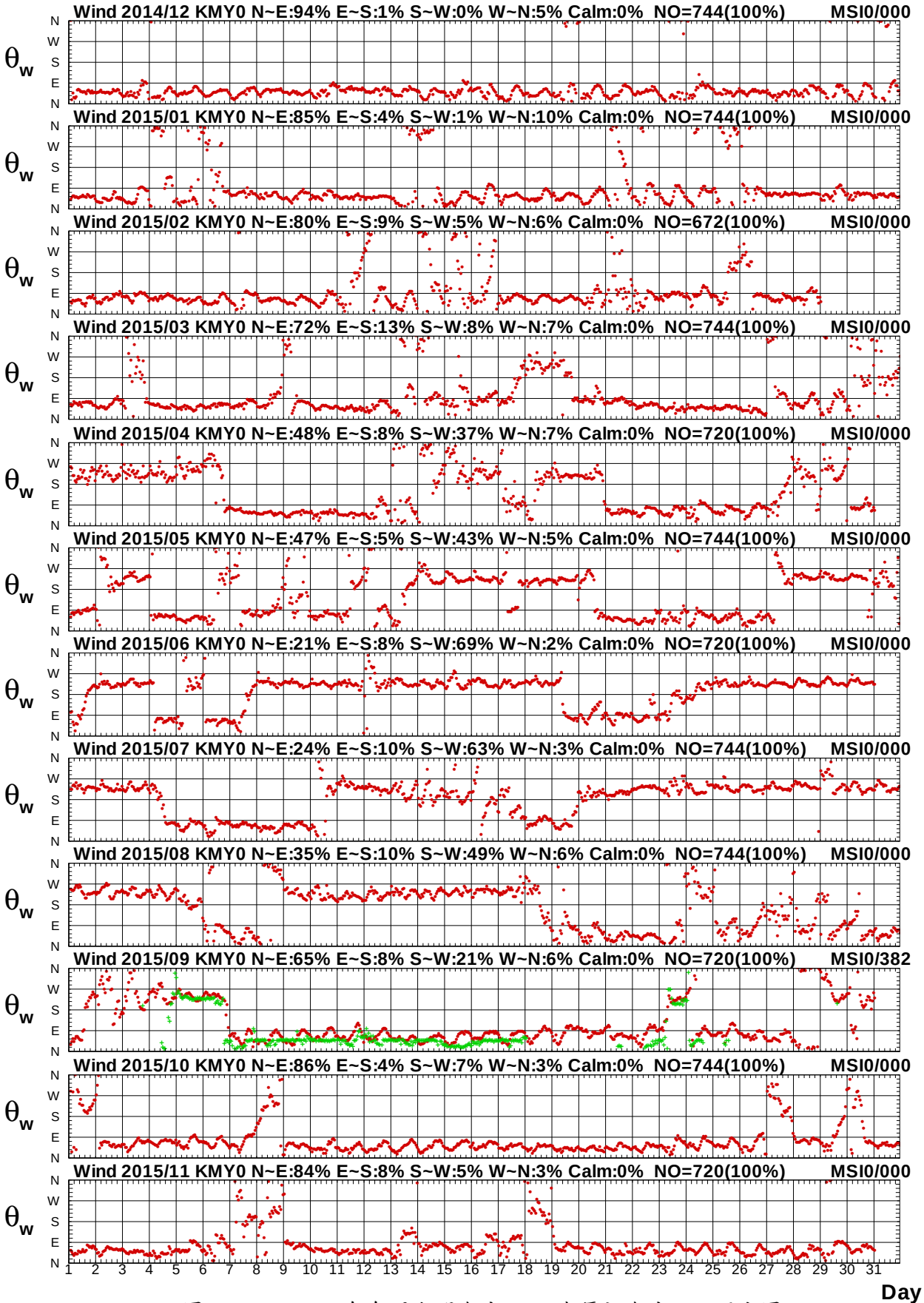

圖 11.14b　2015年每月金門海域 Y 站與馬祖海域 I 站風向圖

W14CKMY0.1HA W14CMSI0.1H0 W151KMY0.1HA W151MSI0.1H0 W152KMY0.1HA W152MSI0.1H0
W153KMY0.1HA W153MSI0.1H0 W154KMY0.1HA W154MSI0.1H0 W155KMY0.1HA W155MSI0.1H0

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Wind Speed in Kin-Men seas of KMY0 at 2015

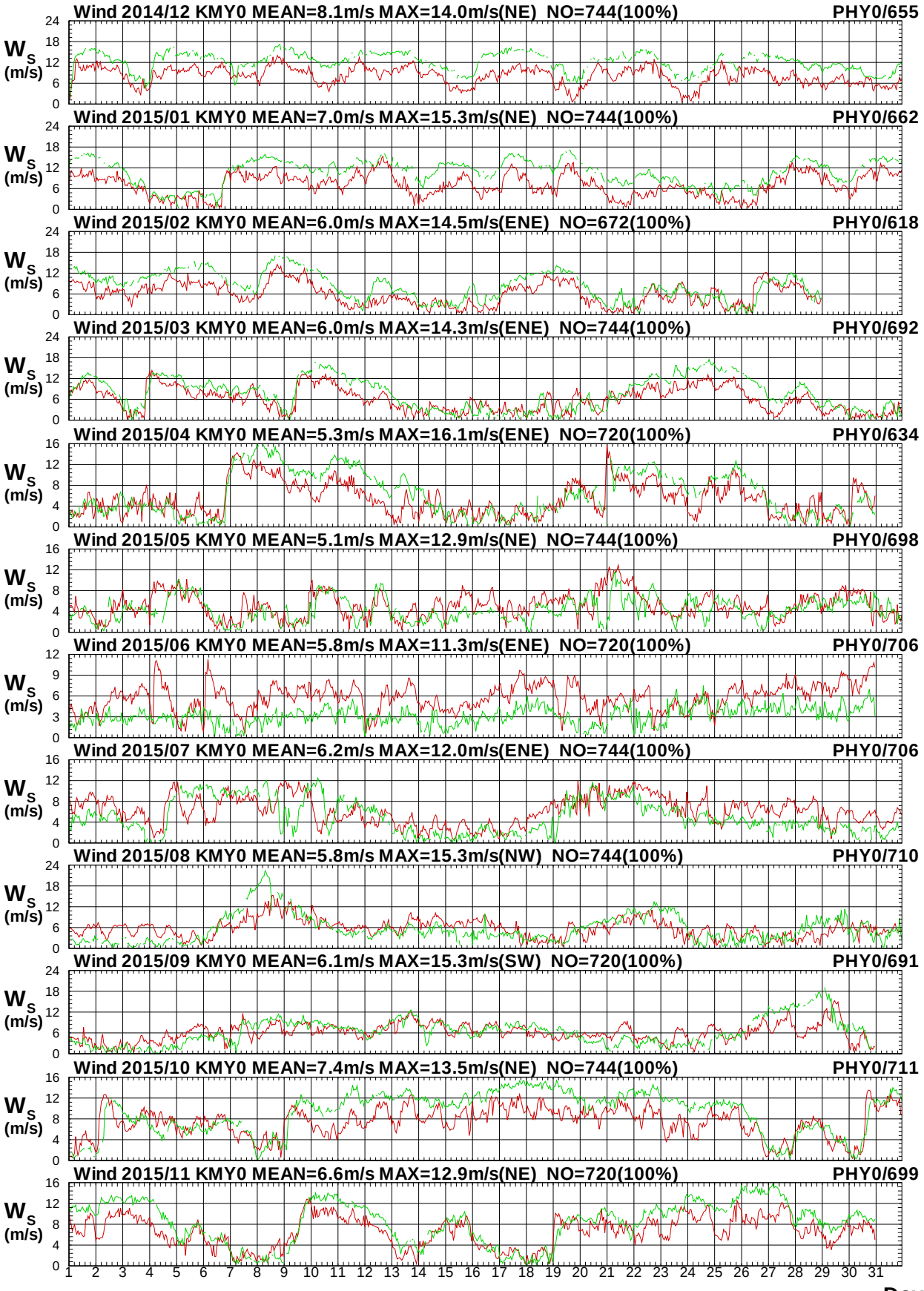

圖 11.15a　2015年每月金門海域 Y 站與澎湖海域 Y 站風速圖

W14CKMY0.1HA W14CPHY0.1H0 W151KMY0.1HA W151PHY0.1H0 W152KMY0.1HA W152PHY0.1H0
W153KMY0.1HA W153PHY0.1H0 W154KMY0.1HA W154PHY0.1H0 W155KMY0.1HA W155PHY0.1H0

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Wind Direction in Kin-Men seas of KMY0 at 2015

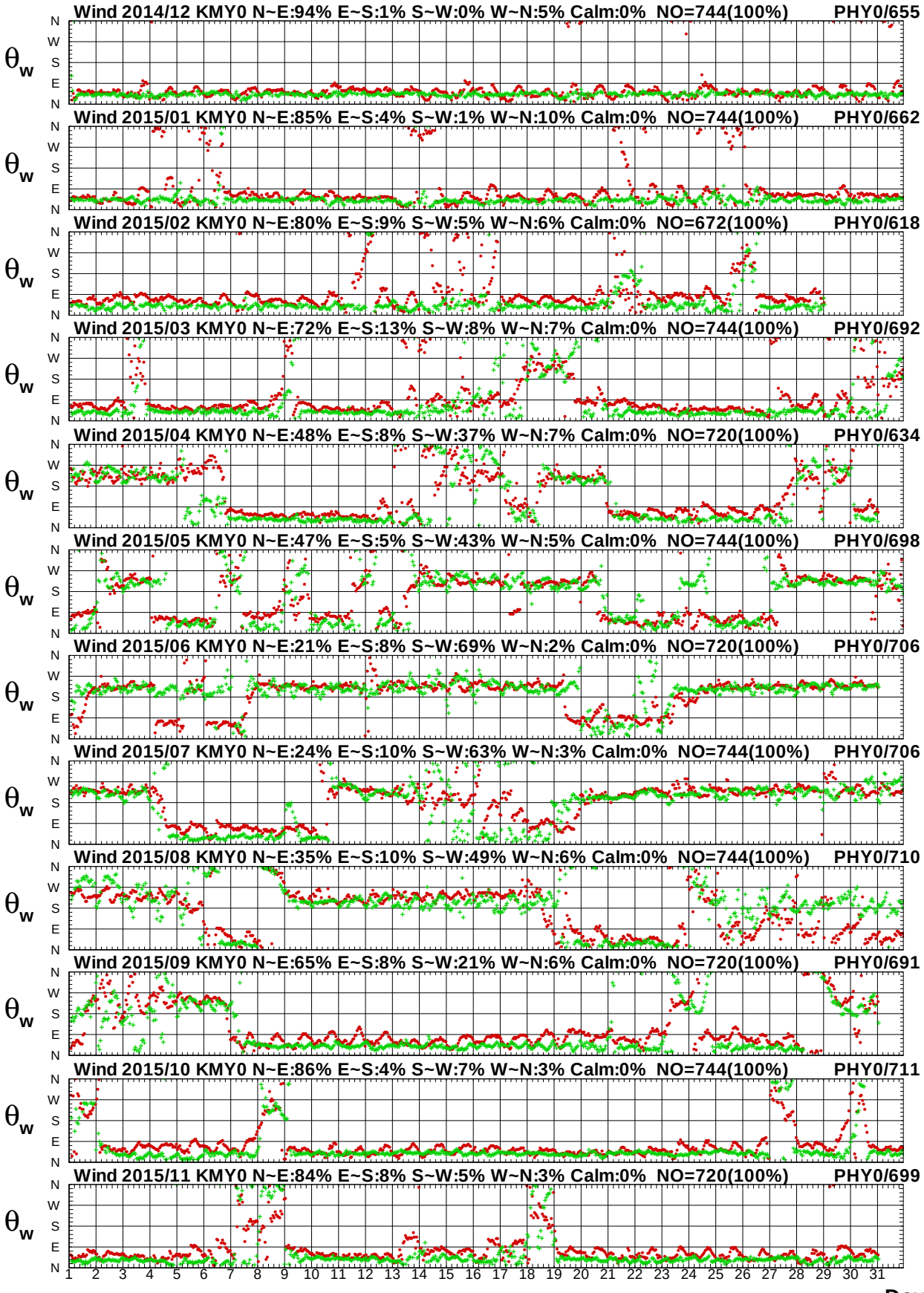

圖 11.15b　2015年每月金門海域 Y 站與澎湖海域 Y 站風向圖

Wind Speed in Kin-Men seas of KMY0 at 2015

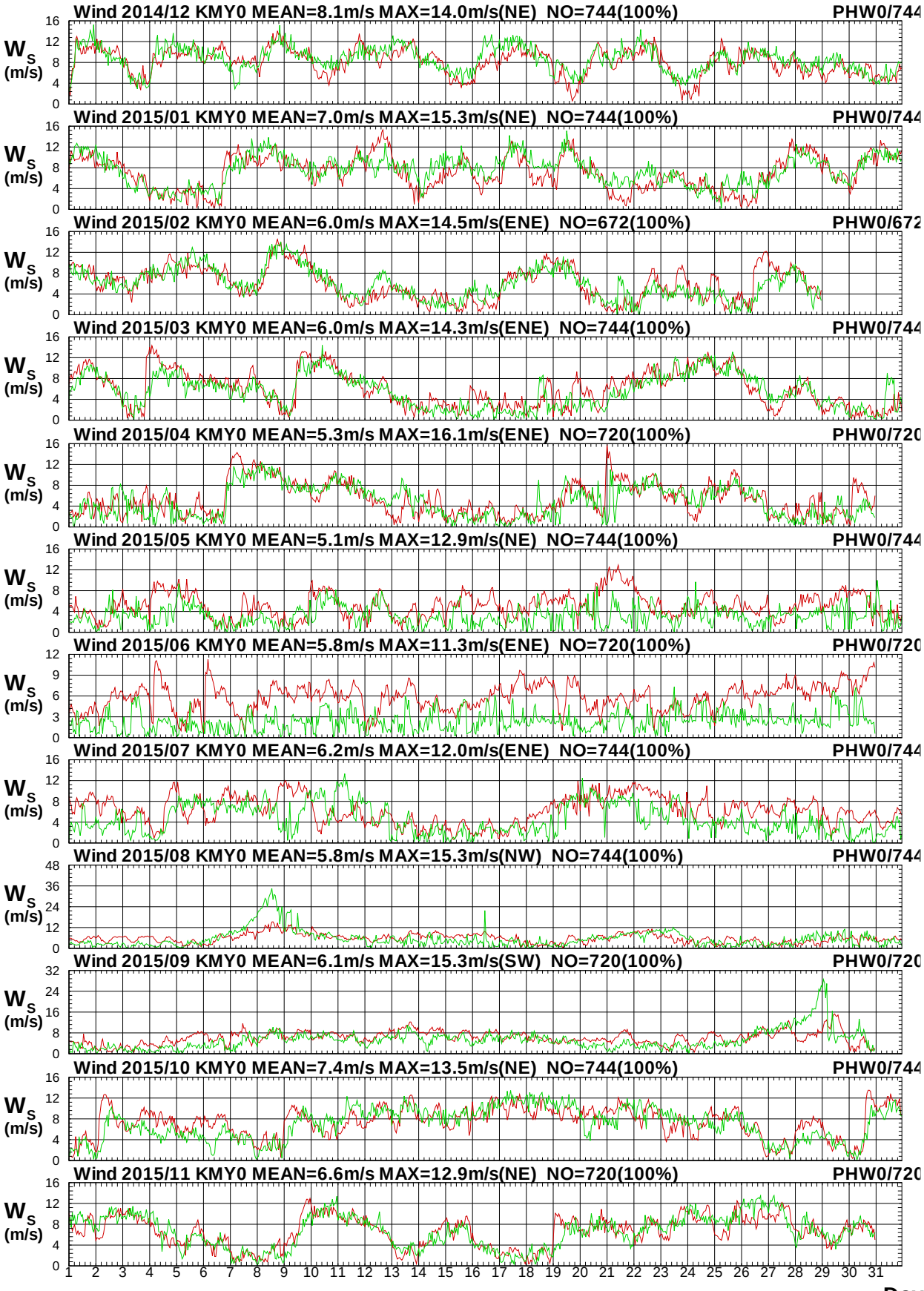

圖11.16a　2015年每月金門海域 Y 站與澎湖海域 W 站風速圖

W14CKMY0.1HA W14CPHW0.1H0 W151KMY0.1HA W151PHW0.1H0 W152KMY0.1HA W152PHW0.1H0
W153KMY0.1HA W153PHW0.1H0 W154KMY0.1HA W154PHW0.1H0 W155KMY0.1HA W155PHW0.1H0

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Wind Direction in Kin-Men seas of KMY0 at 2015

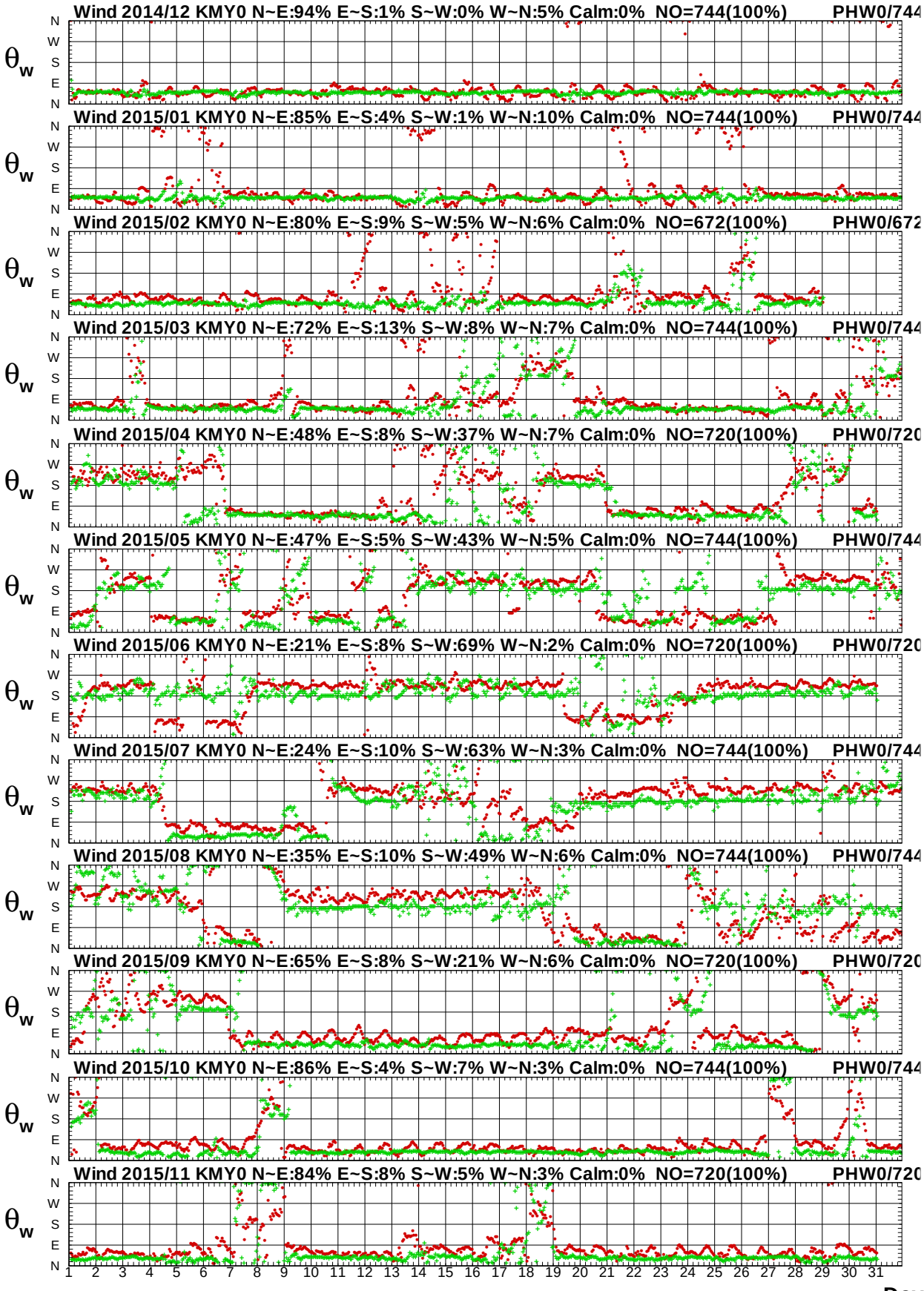

圖11.16b　2015年每月金門海域 Y 站與澎湖海域 W 站風向圖

Wind Speed in Kin-Men seas of KMY0 at 2015

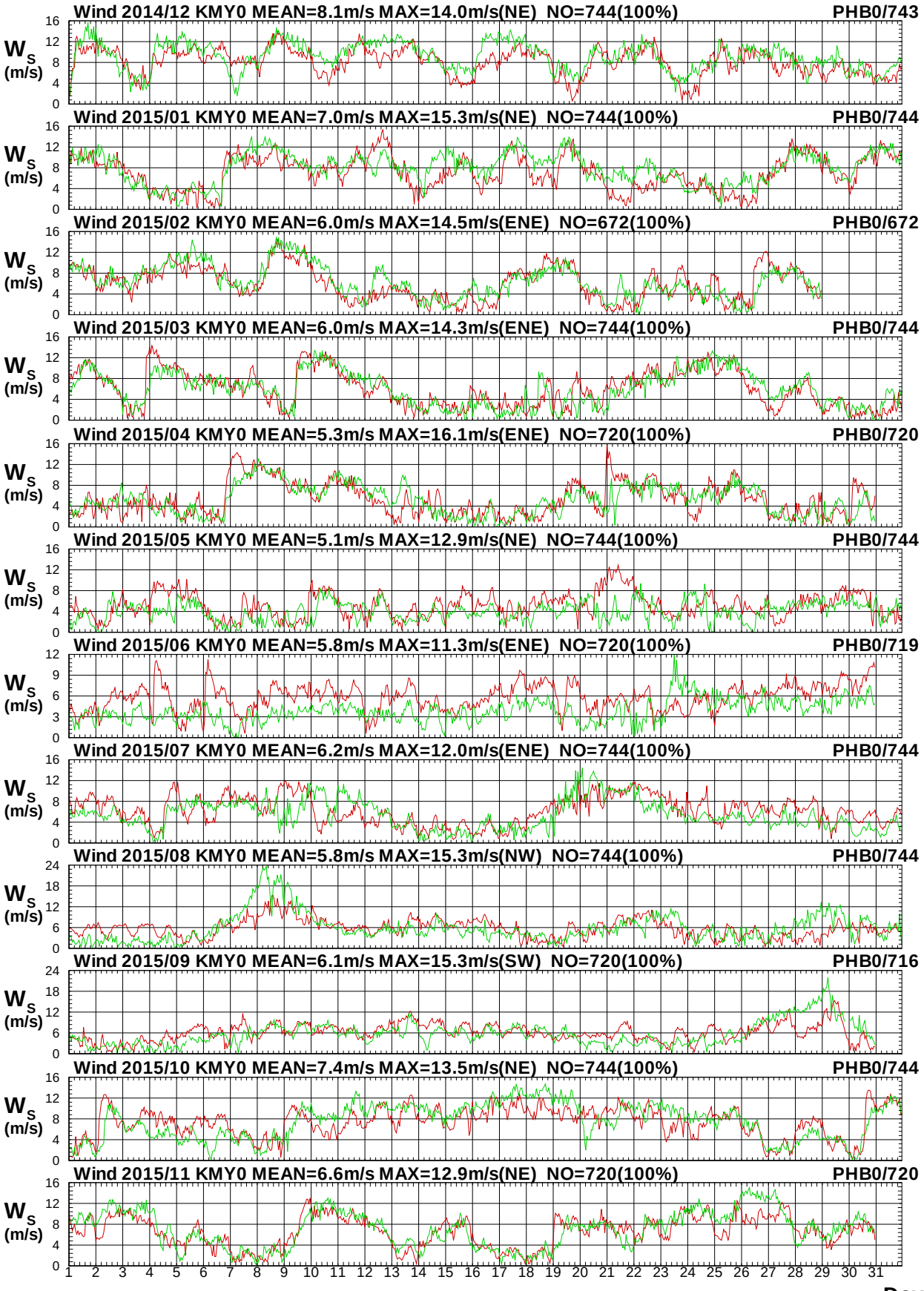

圖 11.17a　2015年每月金門海域 Y 站與澎湖海域 B 站風速圖

W14CKMY0.1HA W14CPHB0.1H0 W151KMY0.1HA W151PHB0.1H0 W152KMY0.1HA W152PHB0.1H0
W153KMY0.1HA W153PHB0.1H0 W154KMY0.1HA W154PHB0.1H0 W155KMY0.1HA W155PHB0.1H0

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Wind Direction in Kin-Men seas of KMY0 at 2015

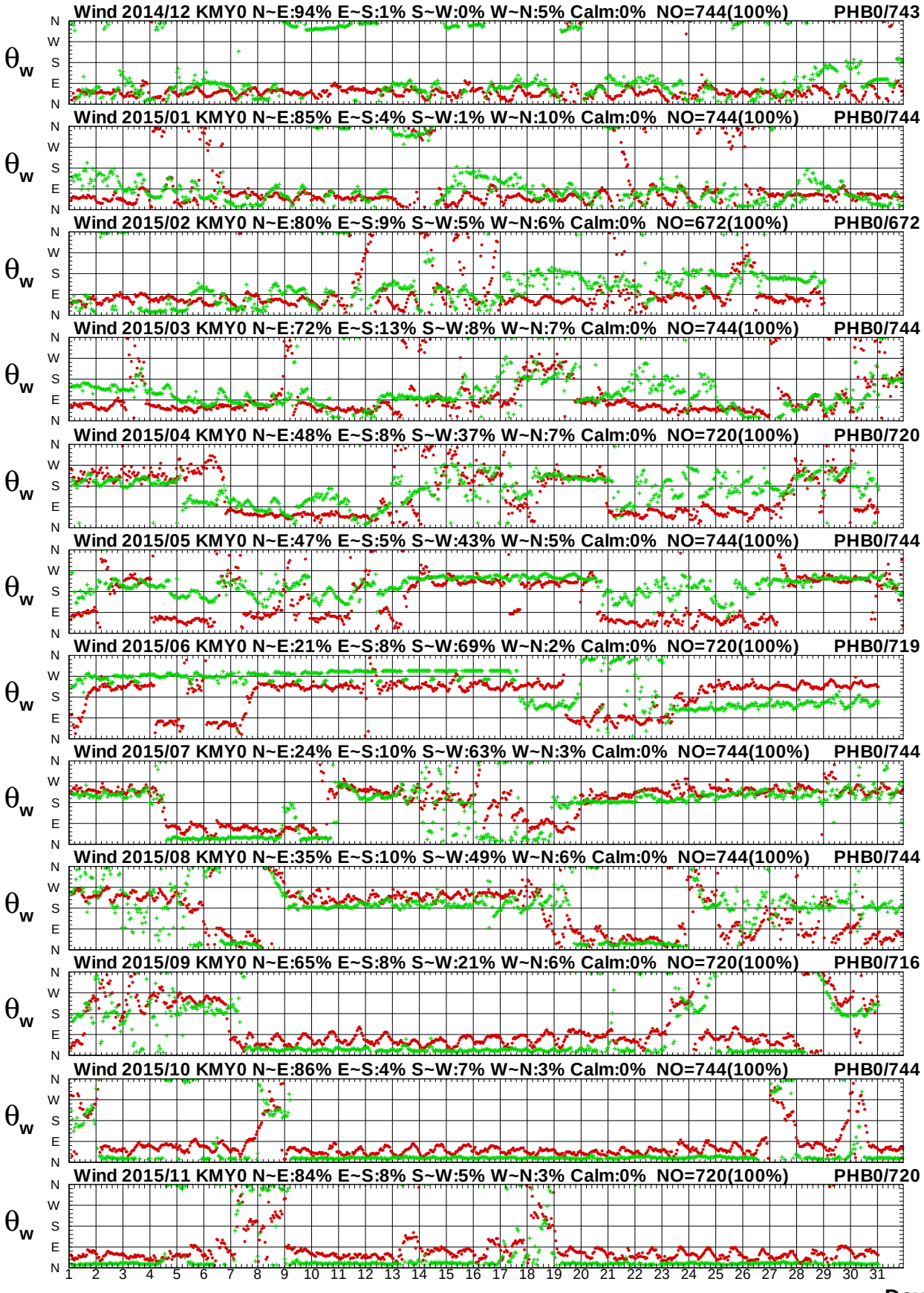

圖 11.17b　2015年每月金門海域 Y 站與澎湖海域 B 站風向圖

W14CKMY0.1HA W14CPHB0.1H0 W151KMY0.1HA W151PHB0.1H0 W152KMY0.1HA W152PHB0.1H0
W153KMY0.1HA W153PHB0.1H0 W154KMY0.1HA W154PHB0.1H0 W155KMY0.1HA W155PHB0.1H0

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Wind Speed in Kin-Men seas of KMY0 at 2015

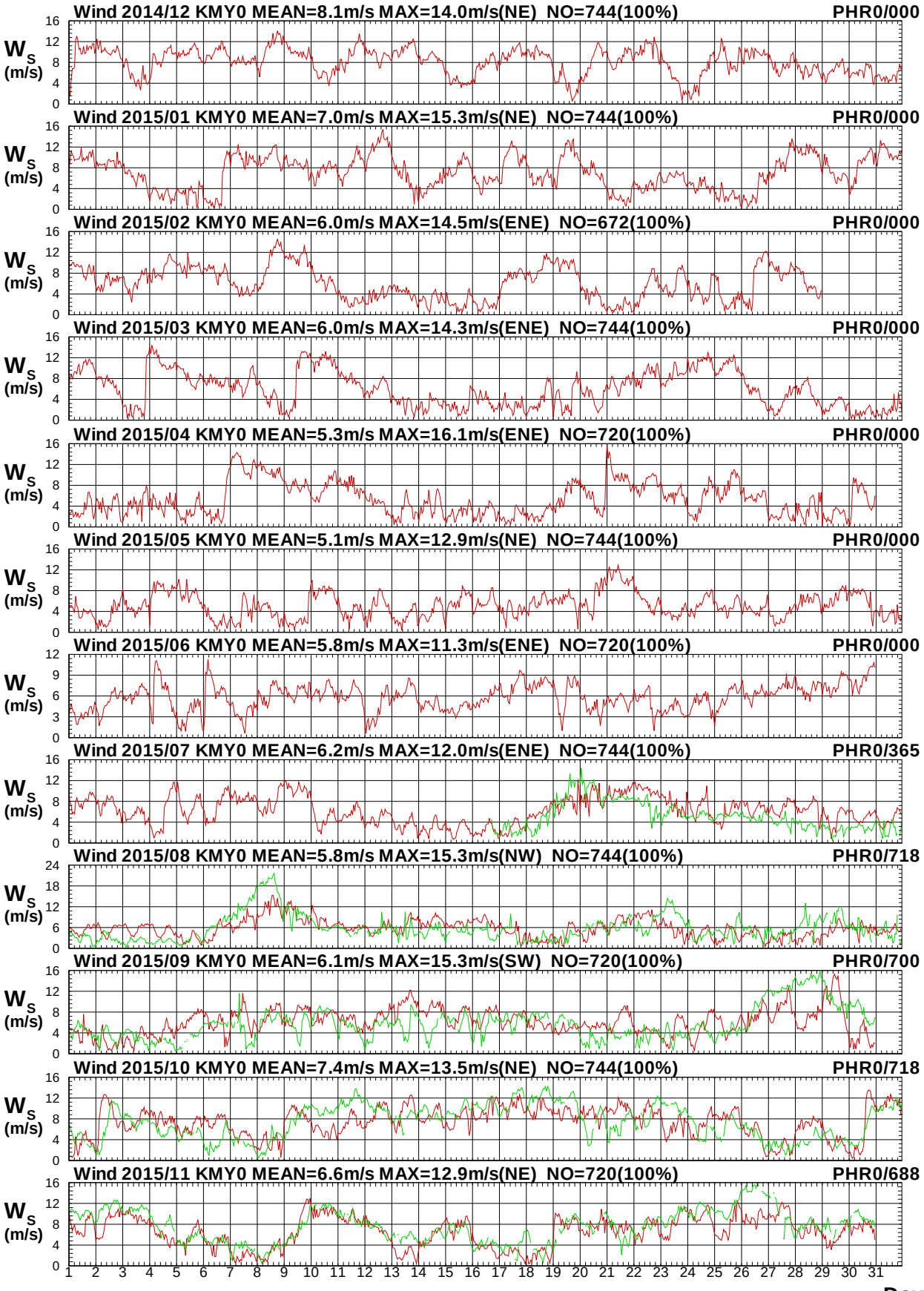

圖 11.18a　2015年每月金門海域 Y 站與澎湖海域 R 站風速圖

W14CKMY0.1HA W14CPHR0.1H0 W151KMY0.1HA W151PHR0.1H0 W152KMY0.1HA W152PHR0.1H0
W153KMY0.1HA W153PHR0.1H0 W154KMY0.1HA W154PHR0.1H0 W155KMY0.1HA W155PHR0.1H0

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Wind Direction in Kin-Men seas of KMY0 at 2015

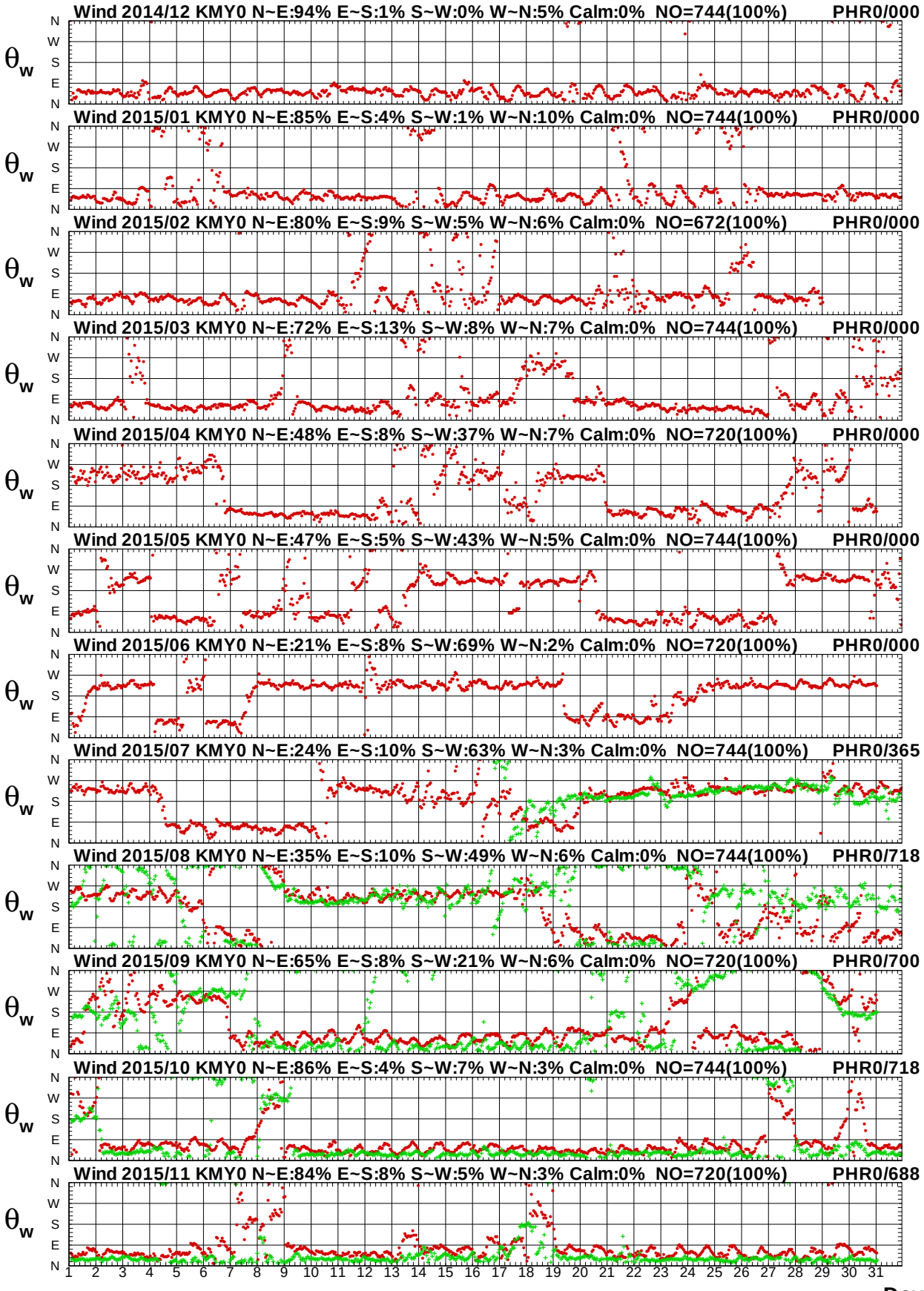

圖 11.18b　2015年每月金門海域 Y 站與澎湖海域 R 站風向圖

Wind Speed in Kin-Men seas of KMY0 at 2015

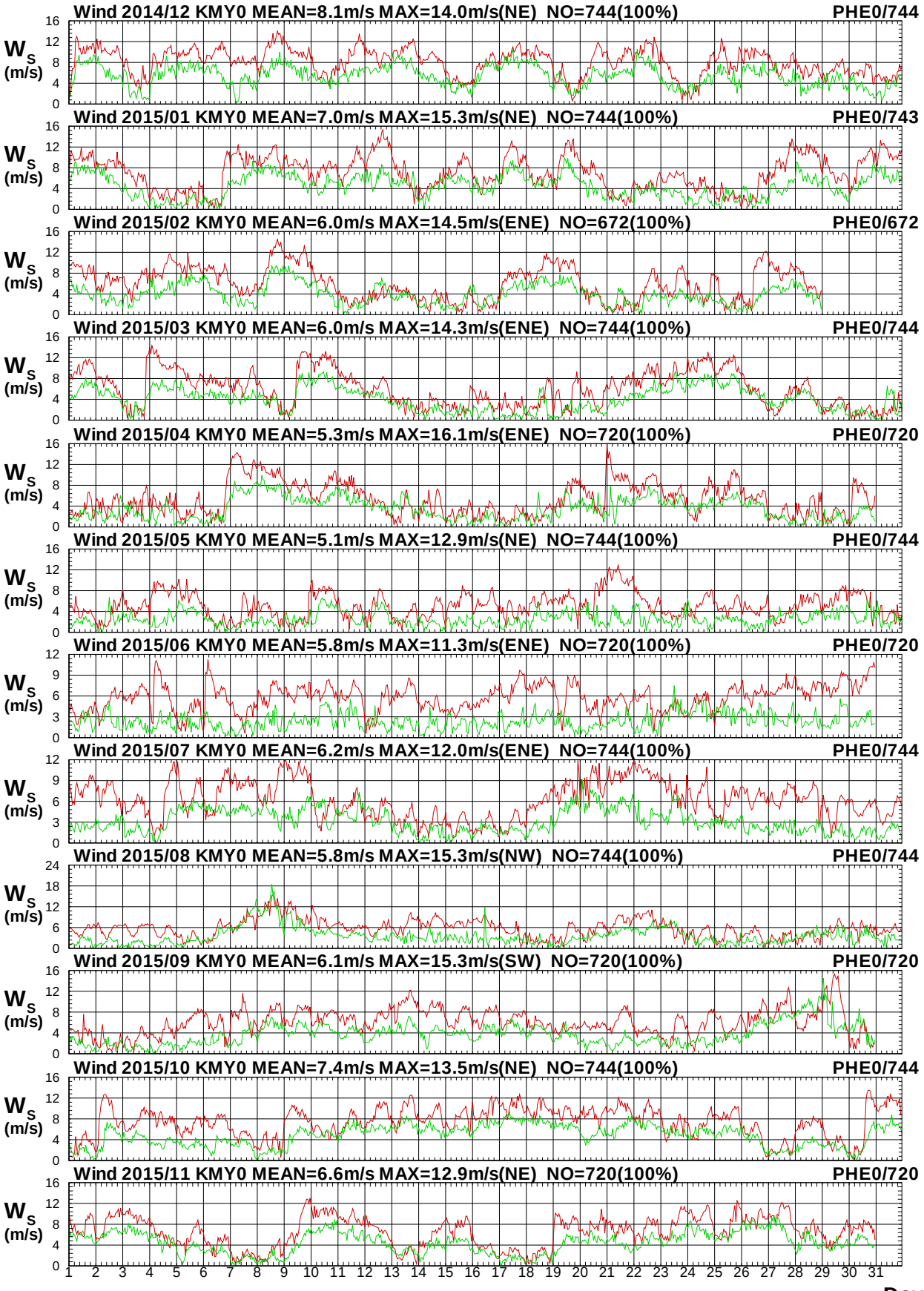

圖 11.19a　2015年每月金門海域 Y 站與澎湖海域 E 站風速圖

W14CKMY0.1HA W14CPHE0.1H0 W151KMY0.1HA W151PHE0.1H0 W152KMY0.1HA W152PHE0.1H0
W153KMY0.1HA W153PHE0.1H0 W154KMY0.1HA W154PHE0.1H0 W155KMY0.1HA W155PHE0.1H0

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Wind Direction in Kin-Men seas of KMY0 at 2015

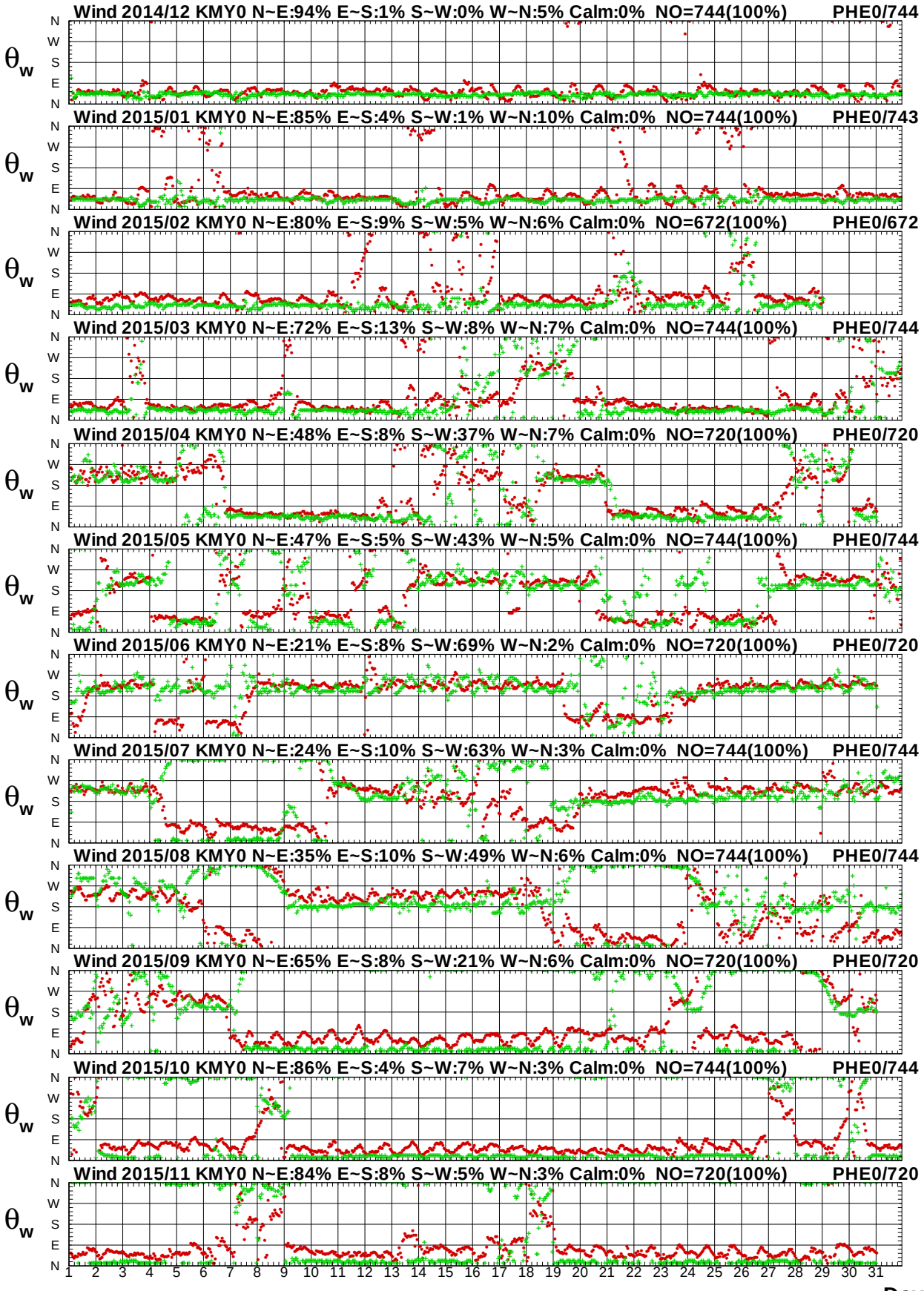

圖 11.19b　2015年每月金門海域 Y 站與澎湖海域 E 站風向圖

W14CKMY0.1HA W14CPHE0.1H0 W151KMY0.1HA W151PHE0.1H0 W152KMY0.1HA W152PHE0.1H0
W153KMY0.1HA W153PHE0.1H0 W154KMY0.1HA W154PHE0.1H0 W155KMY0.1HA W155PHE0.1H0

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Wind Speed in Kin-Men seas of KMY0 at 2015

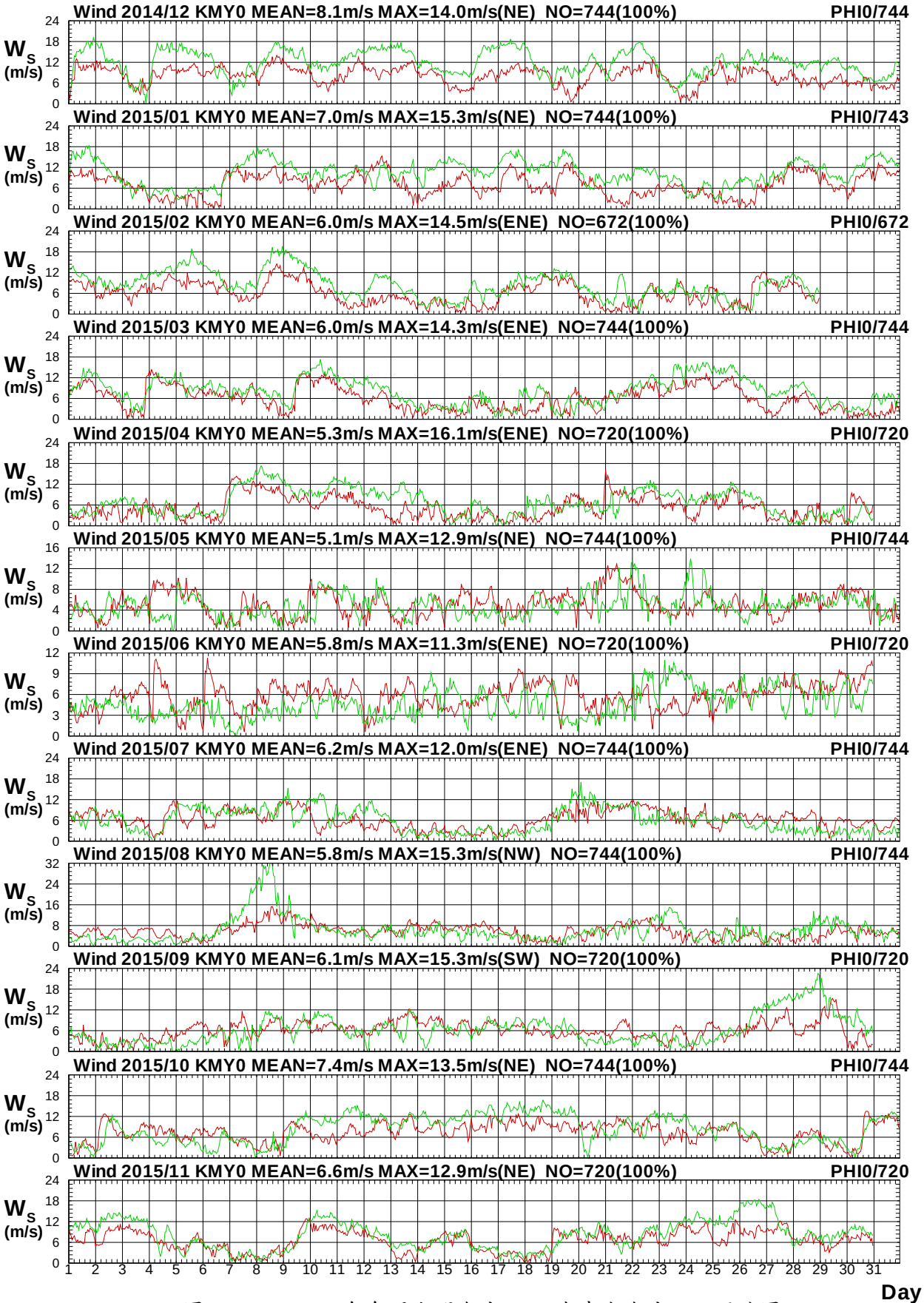

圖 11.20a　2015年每月金門海域 Y 站與澎湖海域 I 站風速圖

W14CKMY0.1HA W14CPHI0.1H0 W151KMY0.1HA W151PHI0.1H0 W152KMY0.1HA W152PHI0.1H0
W153KMY0.1HA W153PHI0.1H0 W154KMY0.1HA W154PHI0.1H0 W155KMY0.1HA W155PHI0.1H0

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Wind Direction in Kin-Men seas of KMY0 at 2015

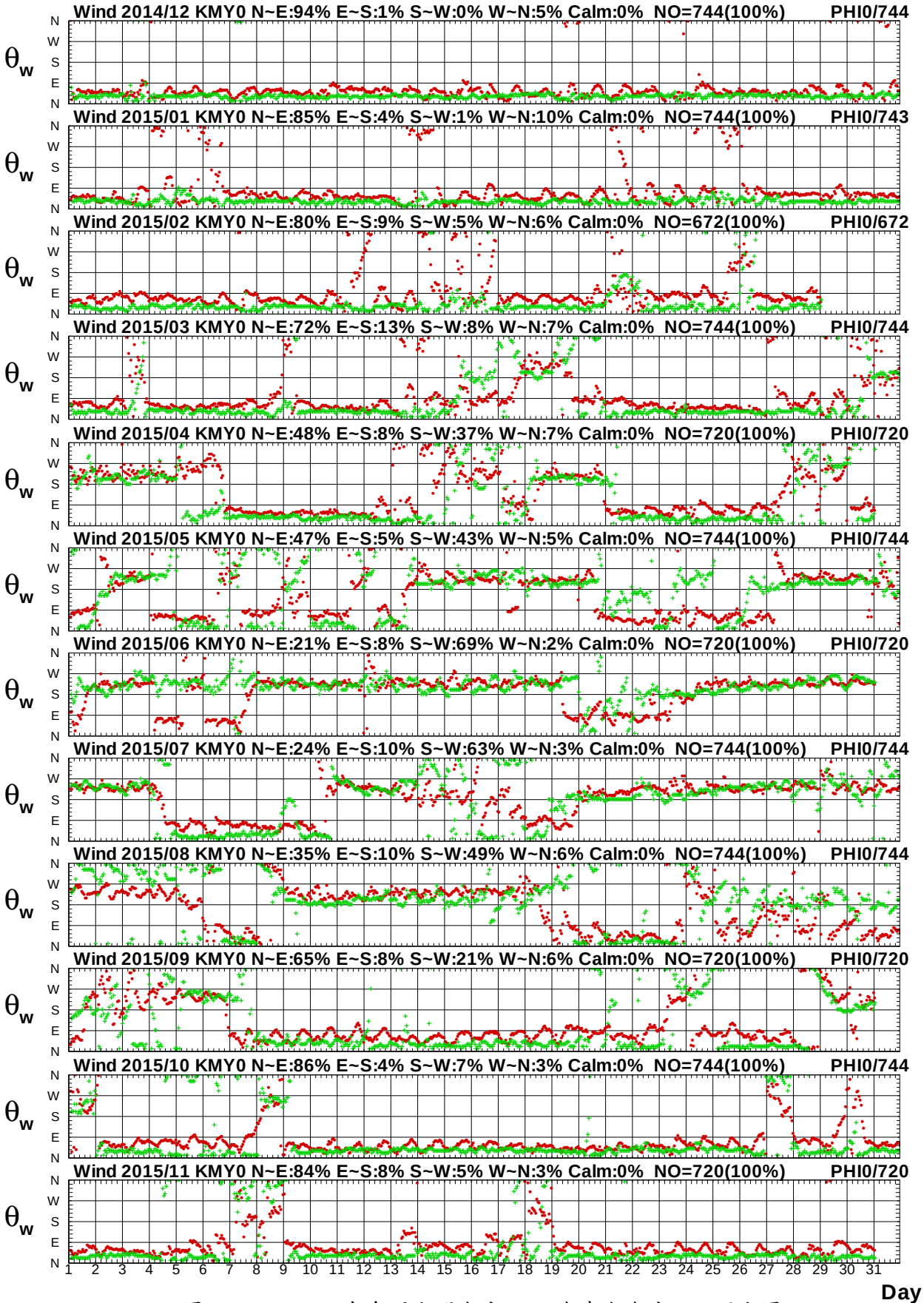

圖 11.20b　2015年每月金門海域 Y 站與澎湖海域 I 站風向圖

W14CKMY0.1HA W14CPHI0.1H0 W151KMY0.1HA W151PHI0.1H0 W152KMY0.1HA W152PHI0.1H0
W153KMY0.1HA W153PHI0.1H0 W154KMY0.1HA W154PHI0.1H0 W155KMY0.1HA W155PHI0.1H0

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第十二章　2015 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 12。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 12。

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)。

本風力年報以取經檢核或修補後之 **Y 站**資料作為**主要觀測站**，2015 年主要觀測站修補前(後)每月觀測之風資料記錄期間統計表，如表 12.1a，2015 年風力**次要觀測站**資料(未補餘)記錄統計表，如表 12.1b，**主要觀測站修補前後**每月風力歷線比較圖，如圖 12.1，**主要觀測站**與**次要觀測站**(或**其他觀測站**)每月風力歷線比較圖，如圖 12.2 以後。

表 12 馬祖海域觀測風力資料蒐集概況表(統計時間至 2015 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	2012/10-2015/11(觀測中)	港研中心	福澳港
E	26°10'10"N	119°55'23"E	2004/01-2015/11(觀測中)	中央氣象局	福澳港區
Y	26°22'36"N	120°31'53"E	2010/07-2015/11(觀測中)	中央氣象局	馬祖資料浮標
B	26°12'25"N	119°58'3.5"E	2015/09-2015/11(觀測中)	港研中心	北竿港
C	25°58'11"N	119°55'55"E	2015/09-2015/11(觀測中)	港研中心	西莒港
D	26°9'36"N	119°56'37"E	2015/09-2015/11(觀測中)	港研中心	東引港
I	26°21'49”N	120°29'2.5”E	2015/09-2015/11(觀測中)	港研中心	東莒港

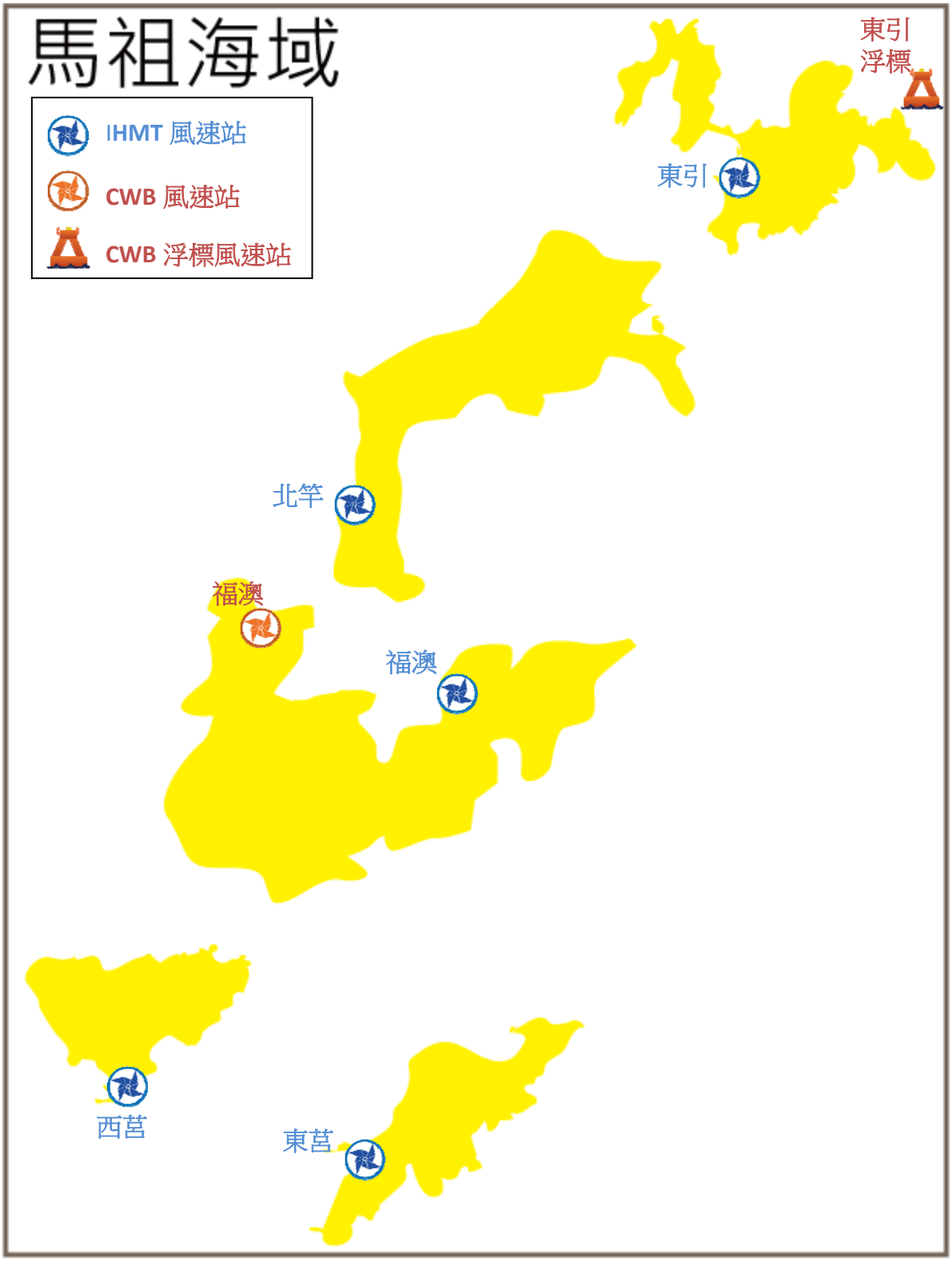

圖 12 馬祖海域風力觀測站位置示意圖

表12.1a 2015年每月馬祖海域修補前各測站觀測風力資料紀錄統計表

年/月 港區	馬祖海域	馬祖海域	馬祖海域	馬祖海域	馬祖海域	馬祖海域	馬祖海域	馬祖海域
測站	W	Y	E	B	C	D	I	
2014/12月	744 (100%)	740 (99.5%)	744 (100%)	*	*	*	*	*
2015/ 1月	744 (100%)	729 (98.0%)	743 (99.9%)	*	*	*	*	*
2015/ 2月	672 (100%)	669 (99.6%)	672 (100%)	*	*	*	*	*
2015/ 3月	743 (99.9%)	744 (100%)	744 (100%)	*	*	*	*	*
2015/ 4月	720 (100%)	719 (99.9%)	720 (100%)	*	*	*	*	*
2015/ 5月	744 (100%)	741 (99.6%)	744 (100%)	*	*	*	*	*
2015/ 6月	720 (100%)	714 (99.2%)	720 (100%)	*	*	*	*	*
2015/ 7月	744 (100%)	743 (99.9%)	744 (100%)	*	*	*	*	*
2015/ 8月	744 (100%)	743 (99.9%)	744 (100%)	*	*	*	*	*
2015/ 9月	709 (98.5%)	720 (100%)	720 (100%)	447 (62.1%)	346 (48.1%)	200 (27.8%)	382 (53.1%)	*
2015/10月	744 (100%)	744 (100%)	744 (100%)	506 (68.0%)	*	692 (93.0%)	*	*
2015/11月	720 (100%)	719 (99.9%)	720 (100%)	287 (39.9%)	*	76 (10.6%)	*	*
2015/冬季	2160 (100%)	2138 (99.0%)	2159 (100.0%)	*	*	*	*	*
2015/春季	2207 (100.0%)	2204 (99.8%)	2208 (100%)	*	*	*	*	*
2015/夏季	2208 (100%)	2200 (99.6%)	2208 (100%)	*	*	*	*	*
2015/秋季	2173 (99.5%)	2183 (100.0%)	2184 (100%)	1240 (56.8%)	346 (15.8%)	968 (44.3%)	382 (17.5%)	*
2015/整年	8748 (99.9%)	8725 (99.6%)	8759 (100.0%)	1240 (14.2%)	346 (3.9%)	968 (11.1%)	382 (4.4%)	*
起始年月	2014/12	2014/12	2014/12	2015/09	2015/09	2015/09	2015/09	*
結束年月	2015/11	2015/11	2015/11	2015/11	2015/09	2015/11	2015/09	*

表12.1b 2015年每月馬祖海域修補後各測站風力資料統計表

年/月 港區	馬祖海域	馬祖海域	馬祖海域	馬祖海域	馬祖海域	馬祖海域	馬祖海域	馬祖海域
測站	W	Y	E	B	C	D	I	
2014/12月	744 (100%)	744 (100%)	744 (100%)	*	*	*	*	*
2015/ 1月	744 (100%)	744 (100%)	744 (100%)	*	*	*	*	*
2015/ 2月	672 (100%)	672 (100%)	672 (100%)	*	*	*	*	*
2015/ 3月	744 (100%)	744 (100%)	744 (100%)	*	*	*	*	*
2015/ 4月	720 (100%)	720 (100%)	720 (100%)	*	*	*	*	*
2015/ 5月	744 (100%)	744 (100%)	744 (100%)	*	*	*	*	*
2015/ 6月	720 (100%)	720 (100%)	720 (100%)	*	*	*	*	*
2015/ 7月	744 (100%)	744 (100%)	744 (100%)	*	*	*	*	*
2015/ 8月	744 (100%)	744 (100%)	744 (100%)	*	*	*	*	*
2015/ 9月	720 (100%)	720 (100%)	720 (100%)	*	*	*	*	*
2015/10月	744 (100%)	744 (100%)	744 (100%)	*	*	*	*	*
2015/11月	720 (100%)	720 (100%)	720 (100%)	*	*	*	*	*
2015/冬季	2160 (100%)	2160 (100%)	2160 (100%)	*	*	*	*	*
2015/春季	2208 (100%)	2208 (100%)	2208 (100%)	*	*	*	*	*
2015/夏季	2208 (100%)	2208 (100%)	2208 (100%)	*	*	*	*	*
2015/秋季	2184 (100%)	2184 (100%)	2184 (100%)	*	*	*	*	*
2015/整年	8760 (100%)	8760 (100%)	8760 (100%)	*	*	*	*	*
起始年月	2014/12	2014/12	2014/12	*	*	*	*	*
結束年月	2015/11	2015/11	2015/11	*	*	*	*	*

Wind Speed in Ma-Tsu Seas of MSY0 at 2015

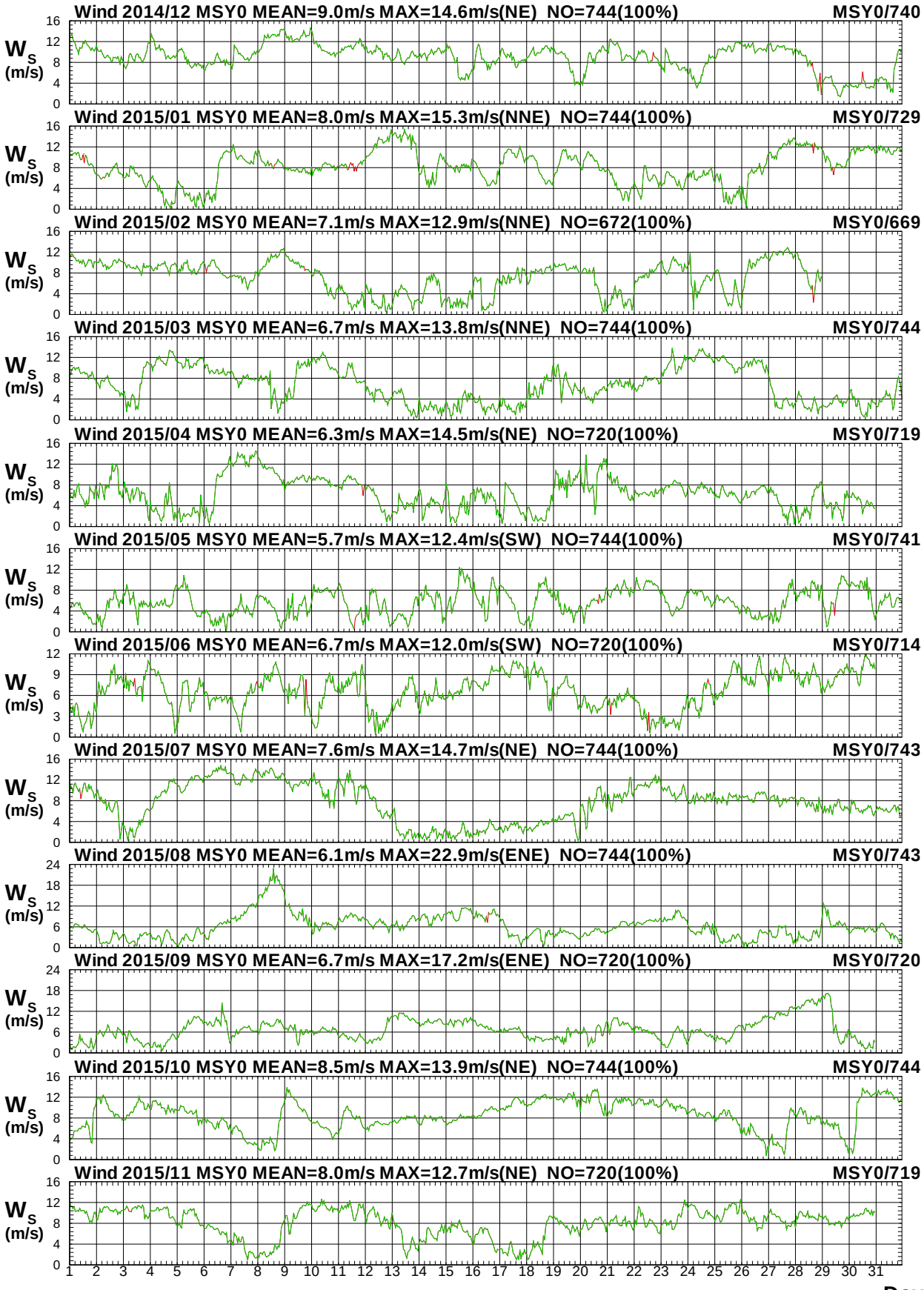

圖 12.1a　2015年每月馬祖海域 Y 站修補前後之風速比較圖

W14CMSY0.1HA W14CMSY0.1H0 W151MSY0.1HA W151MSY0.1H0 W152MSY0.1HA W152MSY0.1H0
W153MSY0.1HA W153MSY0.1H0 W154MSY0.1HA W154MSY0.1H0 W155MSY0.1HA W155MSY0.1H0

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Wind Direction in Ma-Tsu Seas of MSY0 at 2015

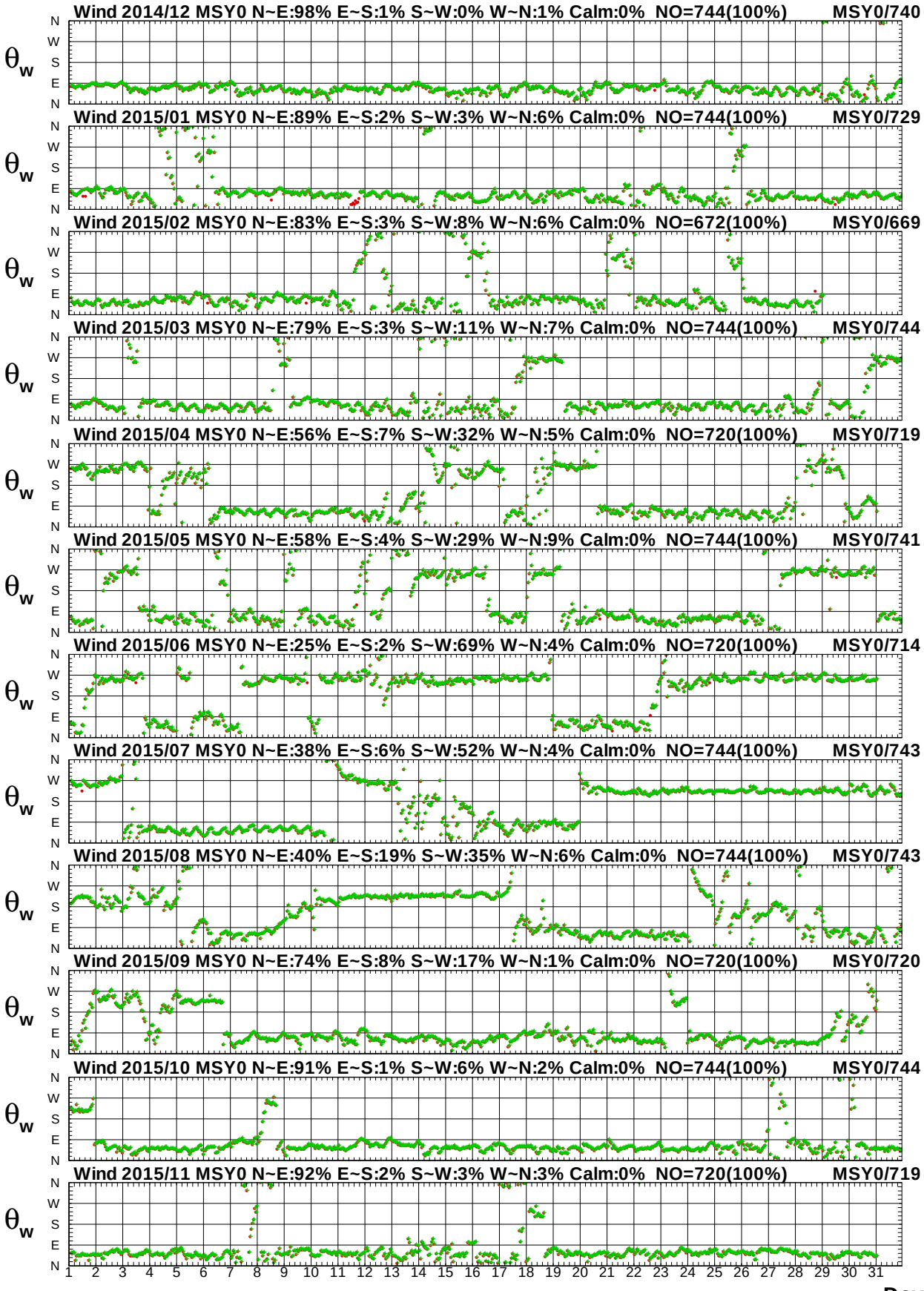

圖 12.1b　2015年每月馬祖海域 Y 站修補前後之風向比較圖

Wind Speed in Ma-Tsu Seas of MSY0 at 2015

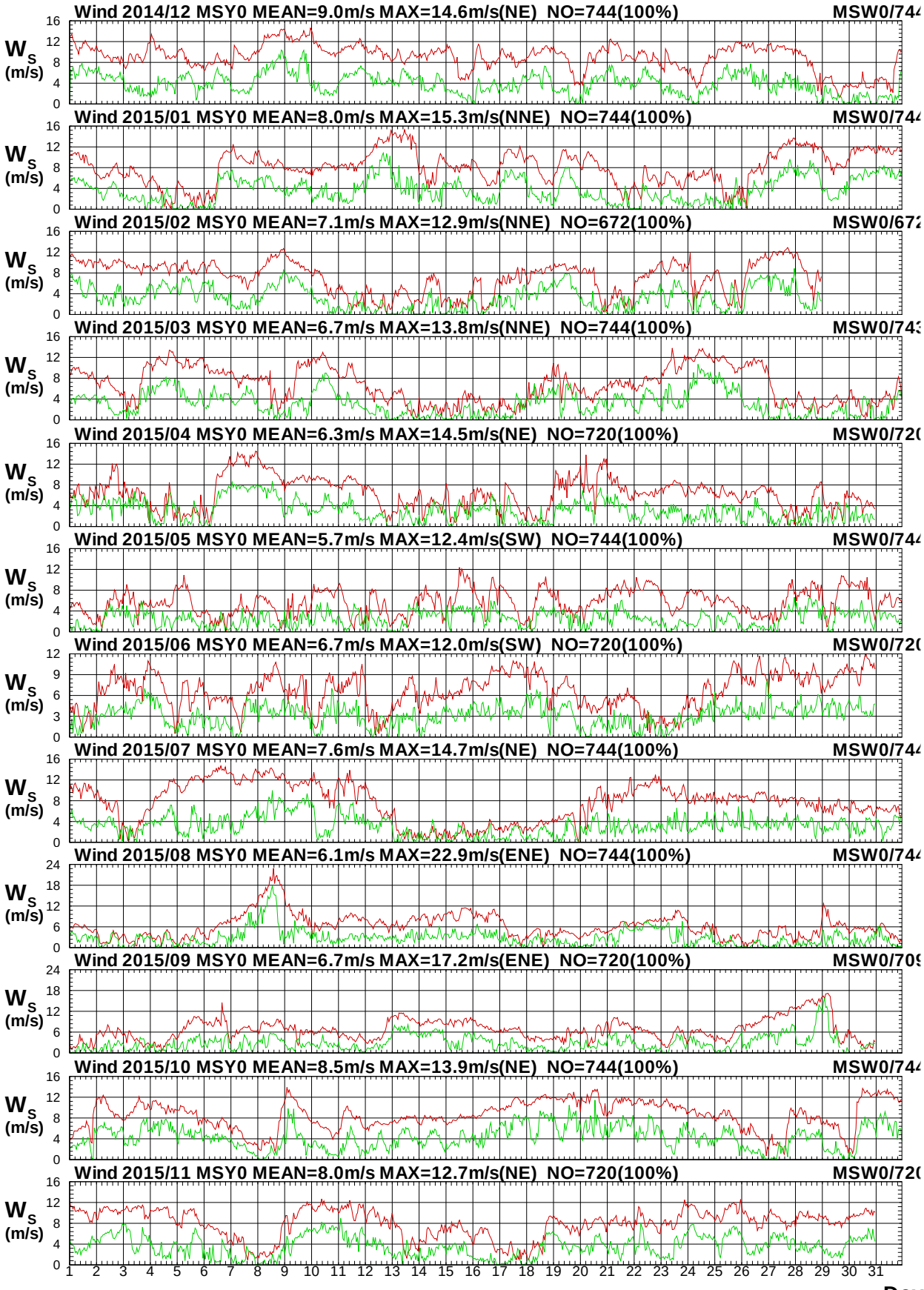

圖 12.2a　2015年每月馬祖海域 Y 站與 W 站風速比較圖

Wind Direction in Ma-Tsu Seas of MSY0 at 2015

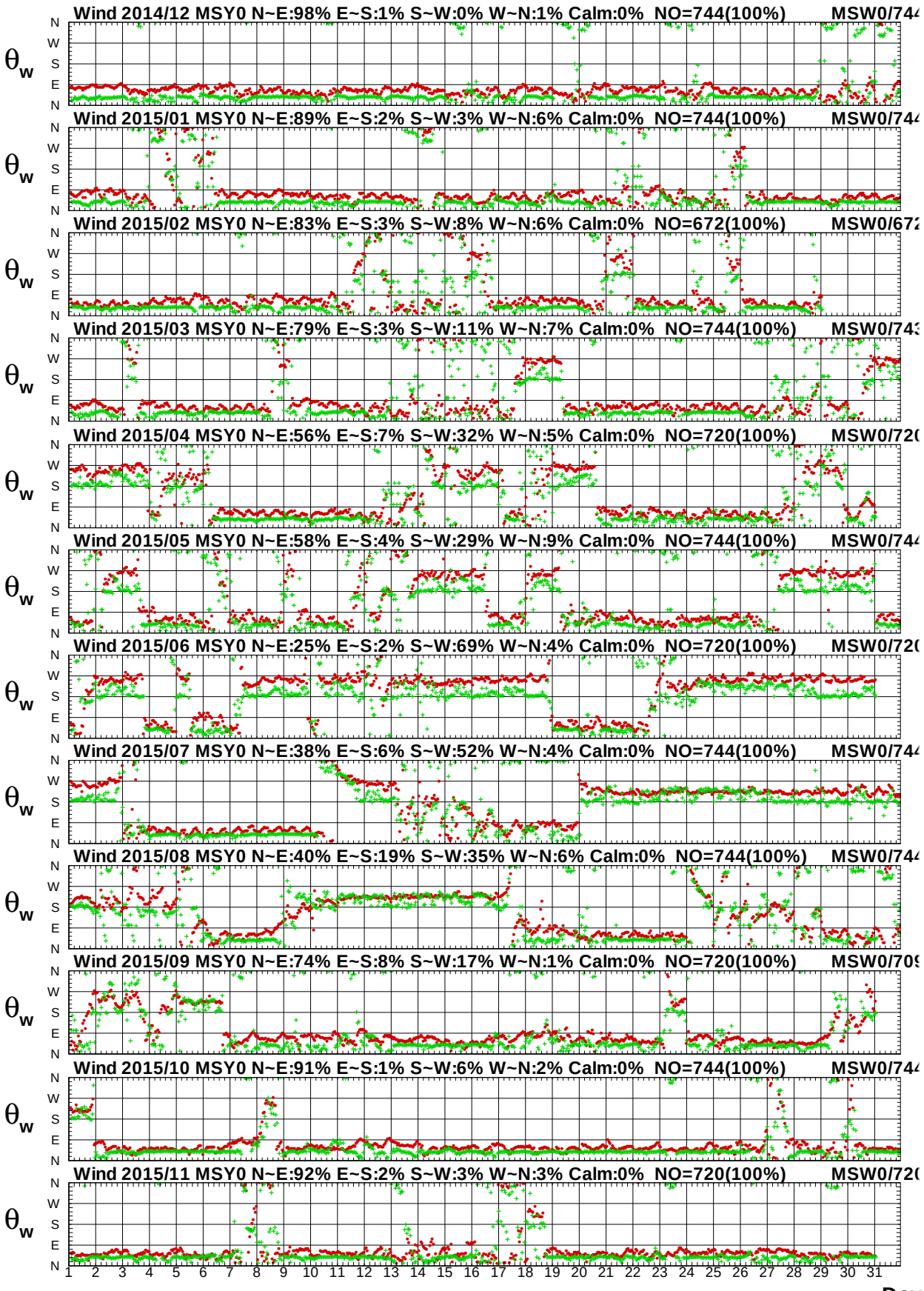

圖 12.2b　2015年每月馬祖海域 Y 站與 W 站風向比較圖

Wind Speed in Ma-Tsu Seas of MSY0 at 2015

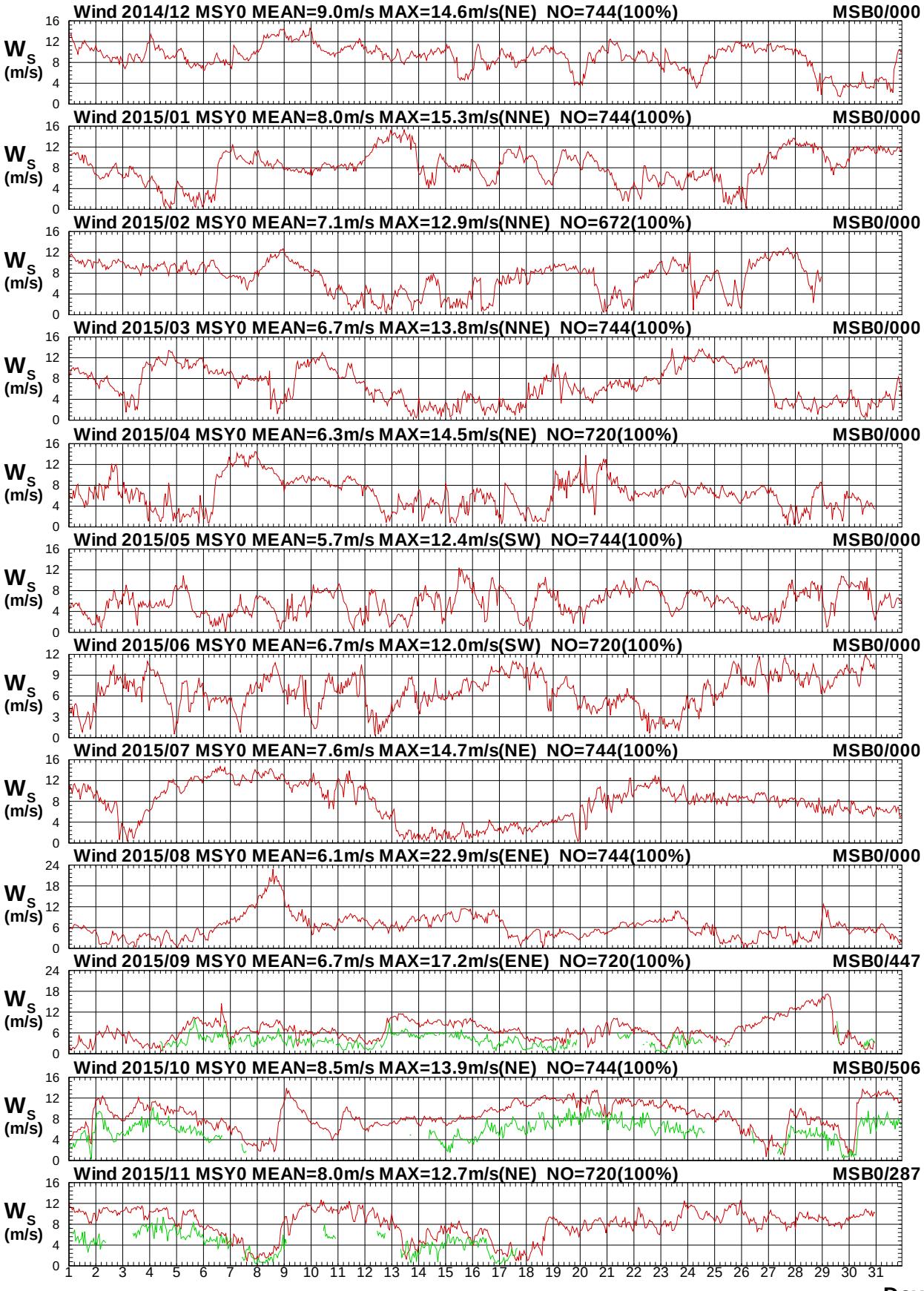

圖 12.3a　2015年每月馬祖海域 Y 站與 B 站風速比較圖

W14CMSY0.1HA W14CMSB0.1H0 W151MSY0.1HA W151MSB0.1H0 W152MSY0.1HA W152MSB0.1H0
W153MSY0.1HA W153MSB0.1H0 W154MSY0.1HA W154MSB0.1H0 W155MSY0.1HA W155MSB0.1H0

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Wind Direction in Ma-Tsu Seas of MSY0 at 2015

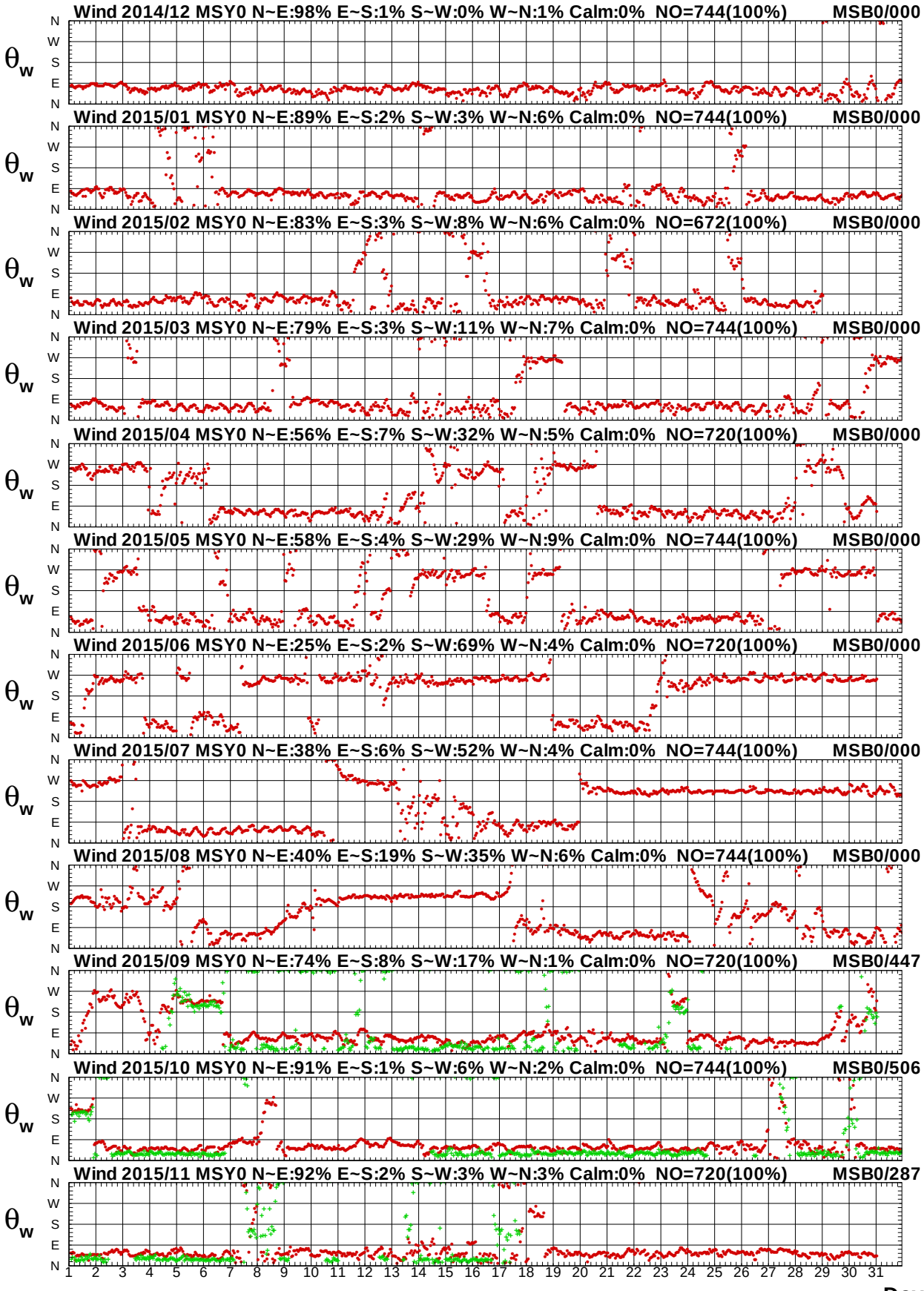

圖 12.3b　2015年每月馬祖海域 Y 站與 B 站風向比較圖

Wind Speed in Ma-Tsu Seas of MSY0 at 2015

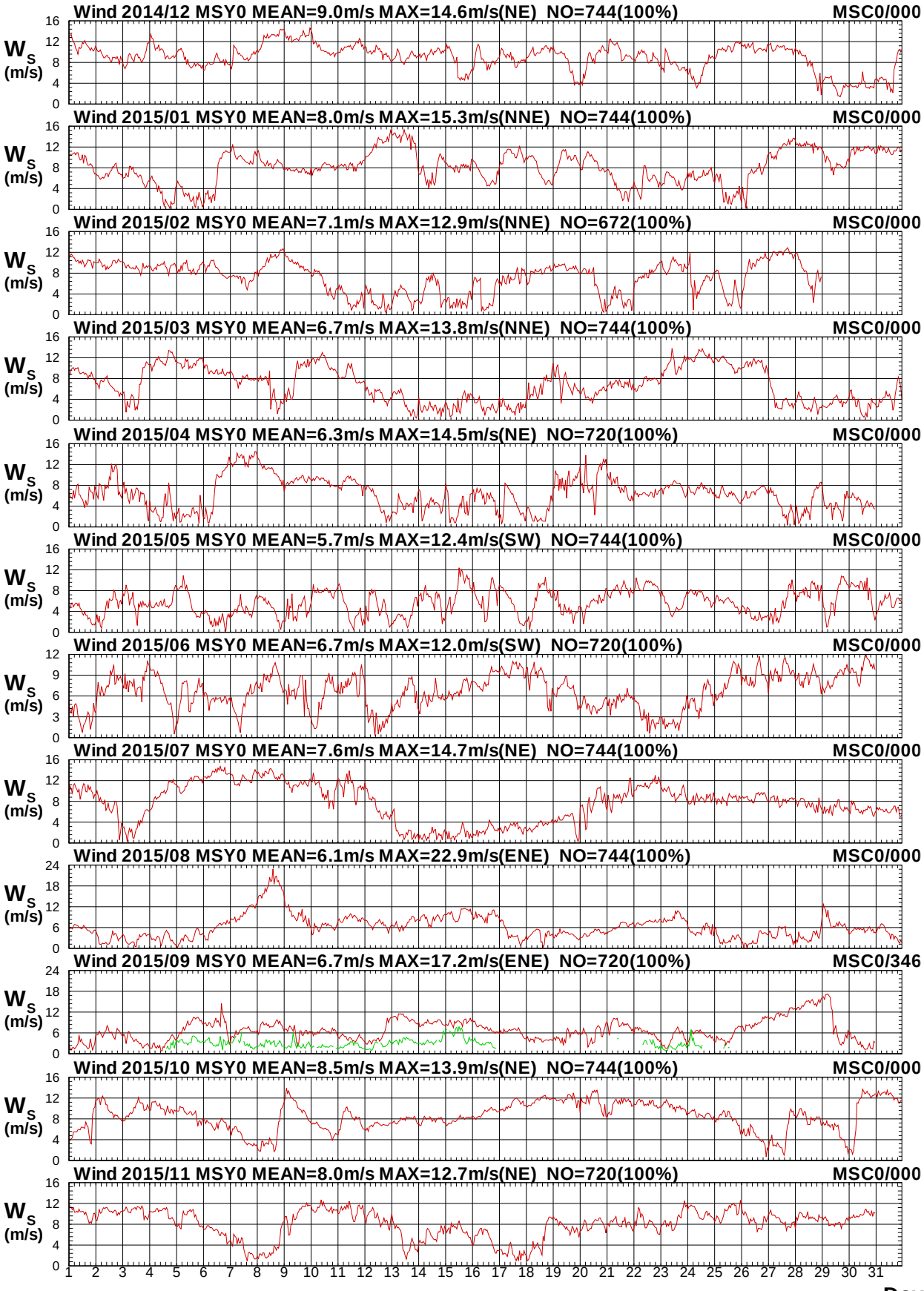

圖 12.4a　2015年每月馬祖海域 Y 站與 C 站風速比較圖

W14CMSY0.1HA W14CMSC0.1H0 W151MSY0.1HA W151MSC0.1H0 W152MSY0.1HA W152MSC0.1H0
W153MSY0.1HA W153MSC0.1H0 W154MSY0.1HA W154MSC0.1H0 W155MSY0.1HA W155MSC0.1H0

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Wind Direction in Ma-Tsu Seas of MSY0 at 2015

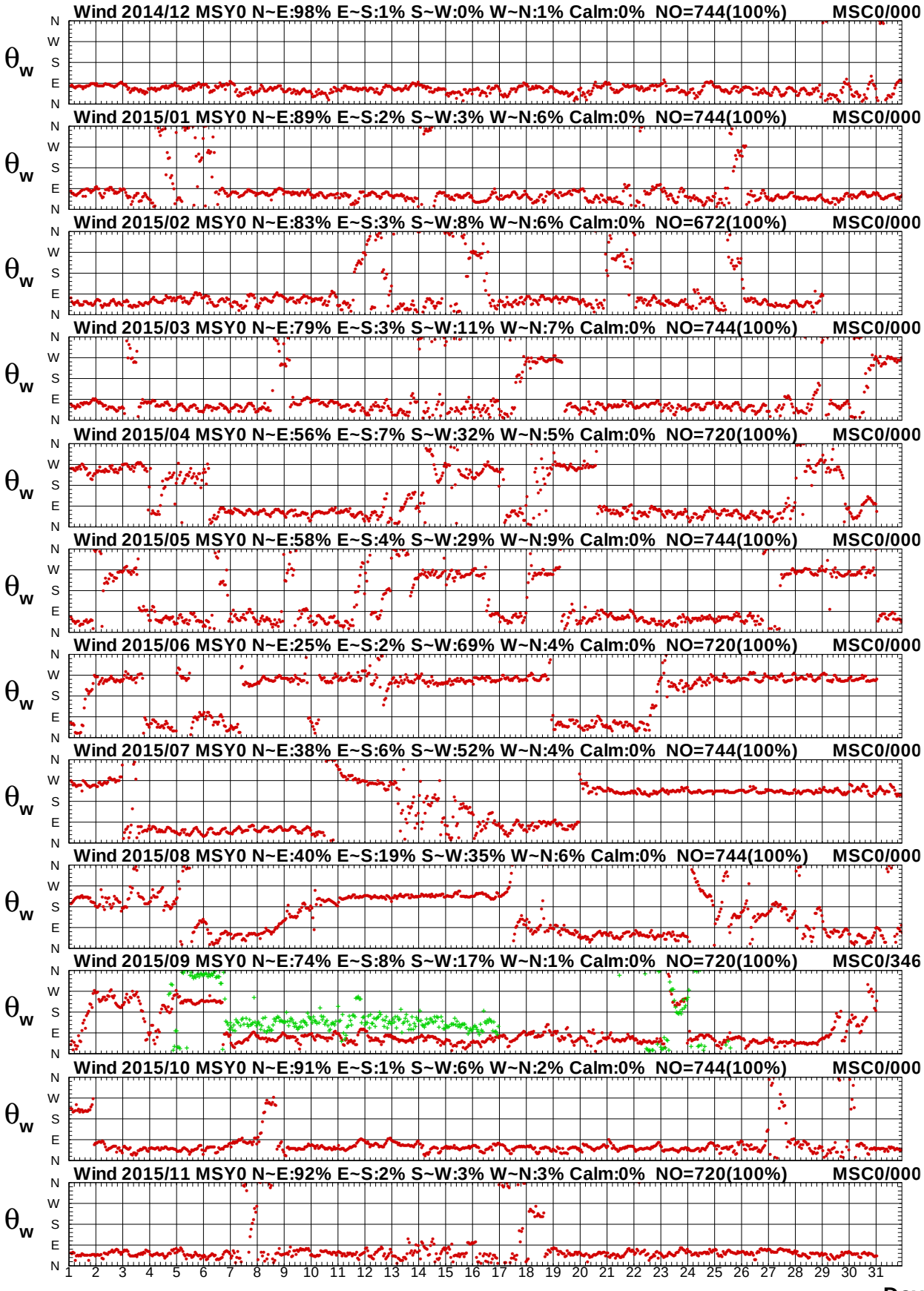

圖 12.4b　2015年每月馬祖海域 Y 站與 C 站風向比較圖

Wind Speed in Ma-Tsu Seas of MSY0 at 2015

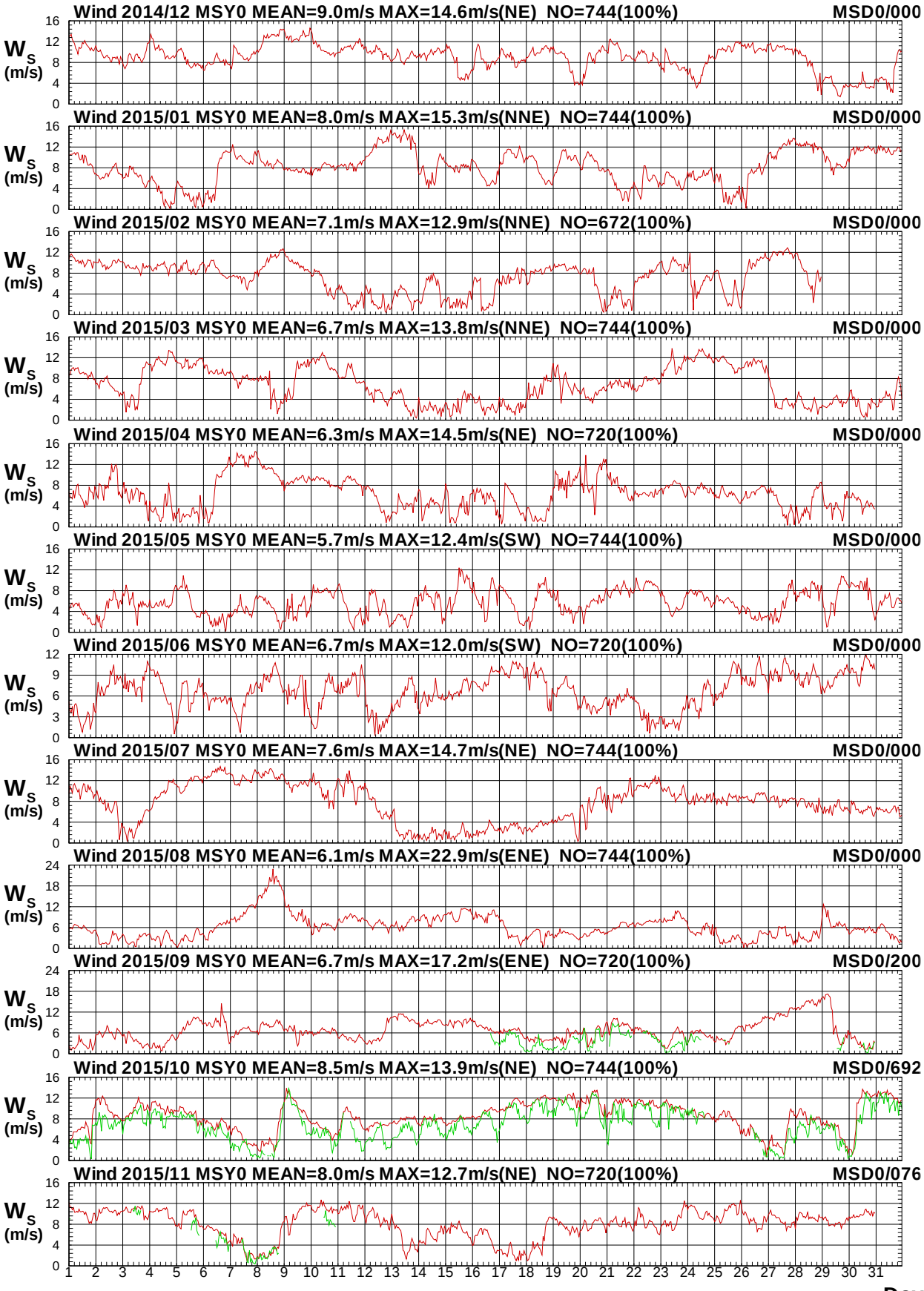

圖 12.5a　2015年每月馬祖海域 Y 站與 D 站風速比較圖

W14CMSY0.1HA W14CMSD0.1H0 W151MSY0.1HA W151MSD0.1H0 W152MSY0.1HA W152MSD0.1H0
W153MSY0.1HA W153MSD0.1H0 W154MSY0.1HA W154MSD0.1H0 W155MSY0.1HA W155MSD0.1H0

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Wind Direction in Ma-Tsu Seas of MSY0 at 2015

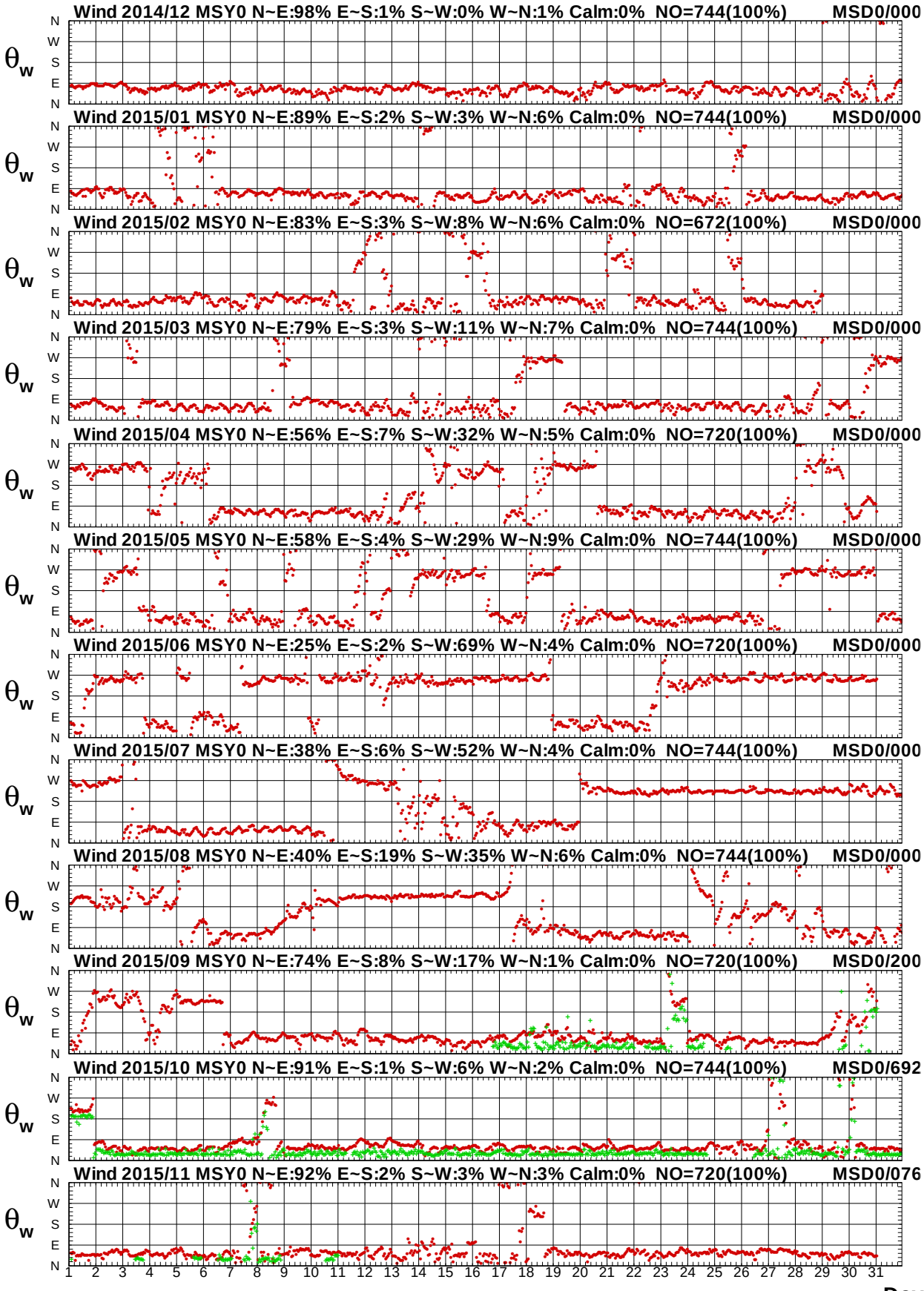

圖 12.5b　2015年每月馬祖海域 Y 站與 D 站風向比較圖

Wind Speed in Ma-Tsu Seas of MSY0 at 2015

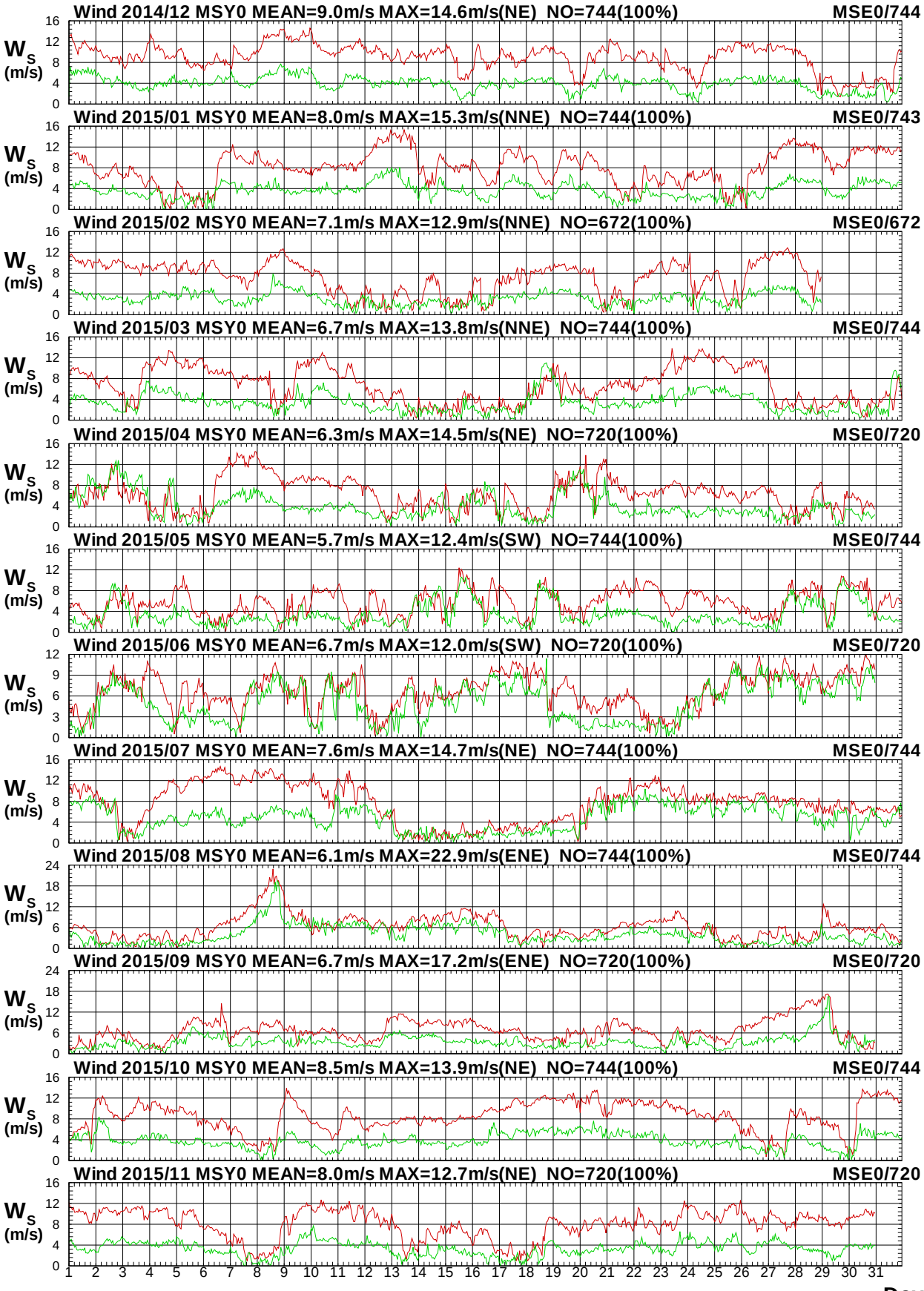

圖 12.6a　2015年每月馬祖海域 Y 站與 E 站風速比較圖

W14CMSY0.1HA W14CMSE0.1H0 W151MSY0.1HA W151MSE0.1H0 W152MSY0.1HA W152MSE0.1H0
W153MSY0.1HA W153MSE0.1H0 W154MSY0.1HA W154MSE0.1H0 W155MSY0.1HA W155MSE0.1H0

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Wind Direction in Ma-Tsu Seas of MSY0 at 2015

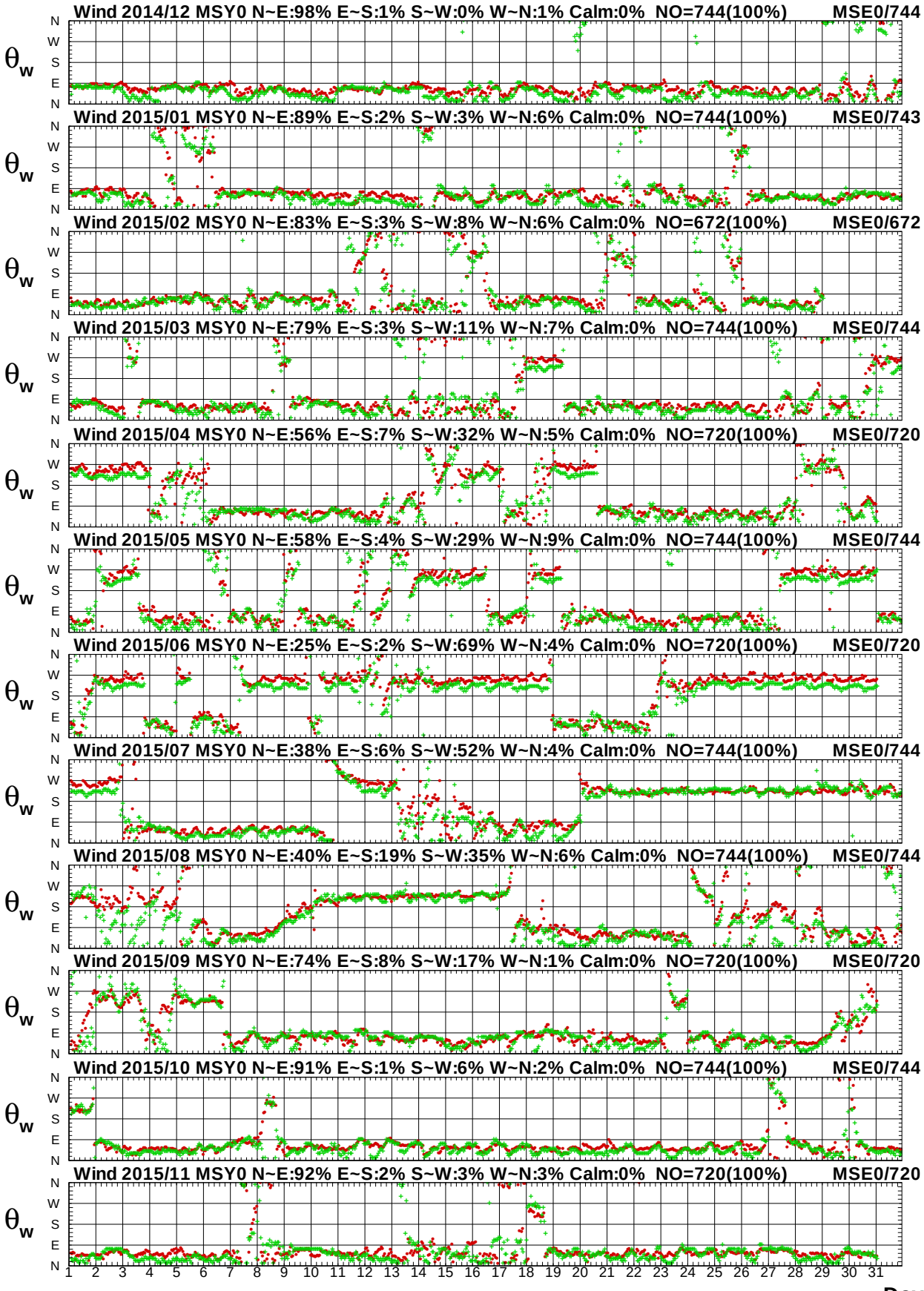

圖 12.6b　2015年每月馬祖海域 Y 站與 E 站風向比較圖

W14CMSY0.1HA W14CMSE0.1H0 W151MSY0.1HA W151MSE0.1H0 W152MSY0.1HA W152MSE0.1H0
W153MSY0.1HA W153MSE0.1H0 W154MSY0.1HA W154MSE0.1H0 W155MSY0.1HA W155MSE0.1H0

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Wind Speed in Ma-Tsu Seas of MSY0 at 2015

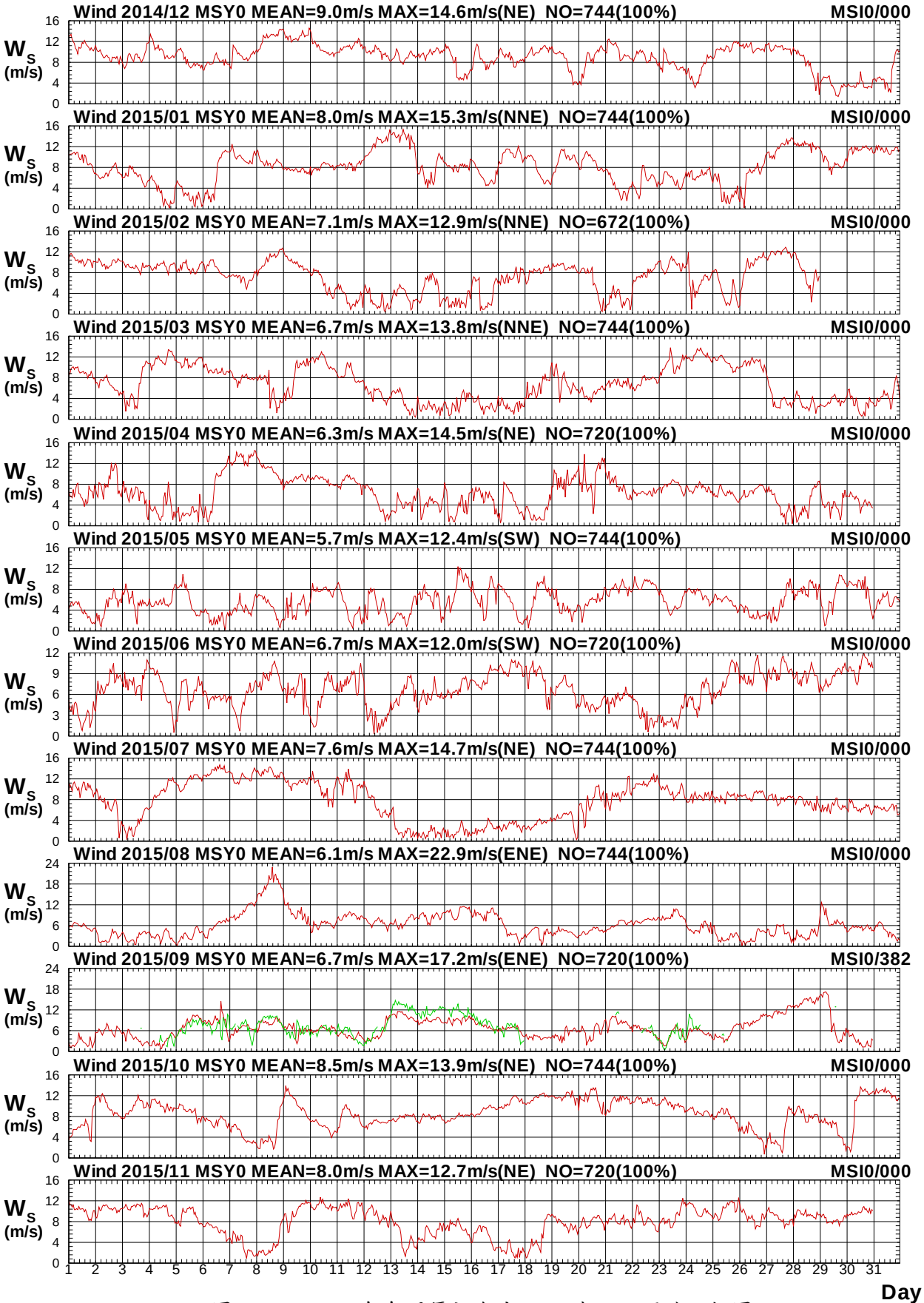

圖 12.7a　2015年每月馬祖海域 Y 站與 I 站風速比較圖

W14CMSY0.1HA W14CMSI0.1H0 W151MSY0.1HA W151MSI0.1H0 W152MSY0.1HA W152MSI0.1H0
W153MSY0.1HA W153MSI0.1H0 W154MSY0.1HA W154MSI0.1H0 W155MSY0.1HA W155MSI0.1H0

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Wind Direction in Ma-Tsu Seas of MSY0 at 2015

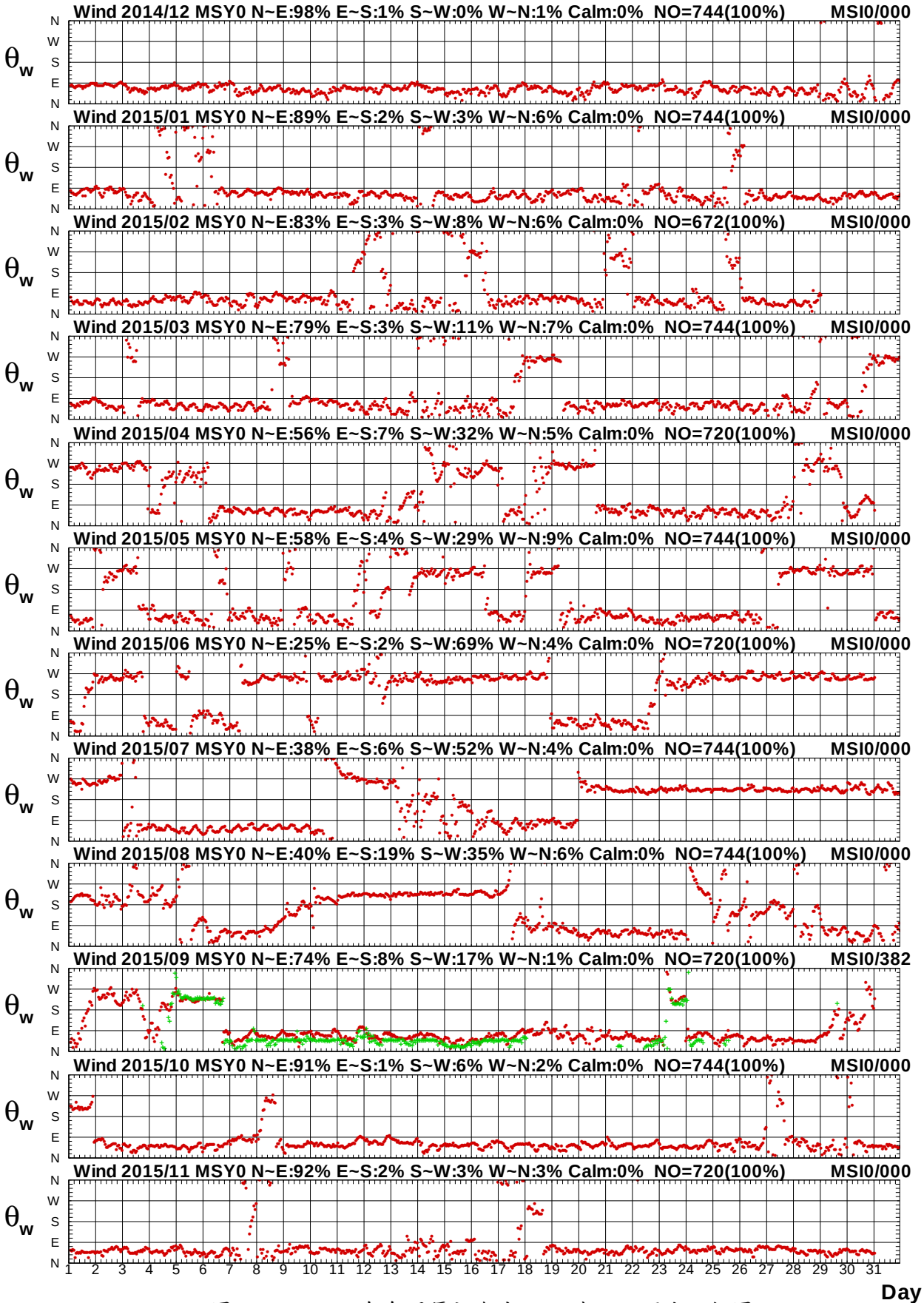

圖 12.7b　2015年每月馬祖海域 Y 站與 I 站風向比較圖

W14CMSY0.1HA W14CMSI0.1H0 W151MSY0.1HA W151MSI0.1H0 W152MSY0.1HA W152MSI0.1H0
W153MSY0.1HA W153MSI0.1H0 W154MSY0.1HA W154MSI0.1H0 W155MSY0.1HA W155MSI0.1H0

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Wind Speed in Ma-Tsu Seas of MSY0 at 2015

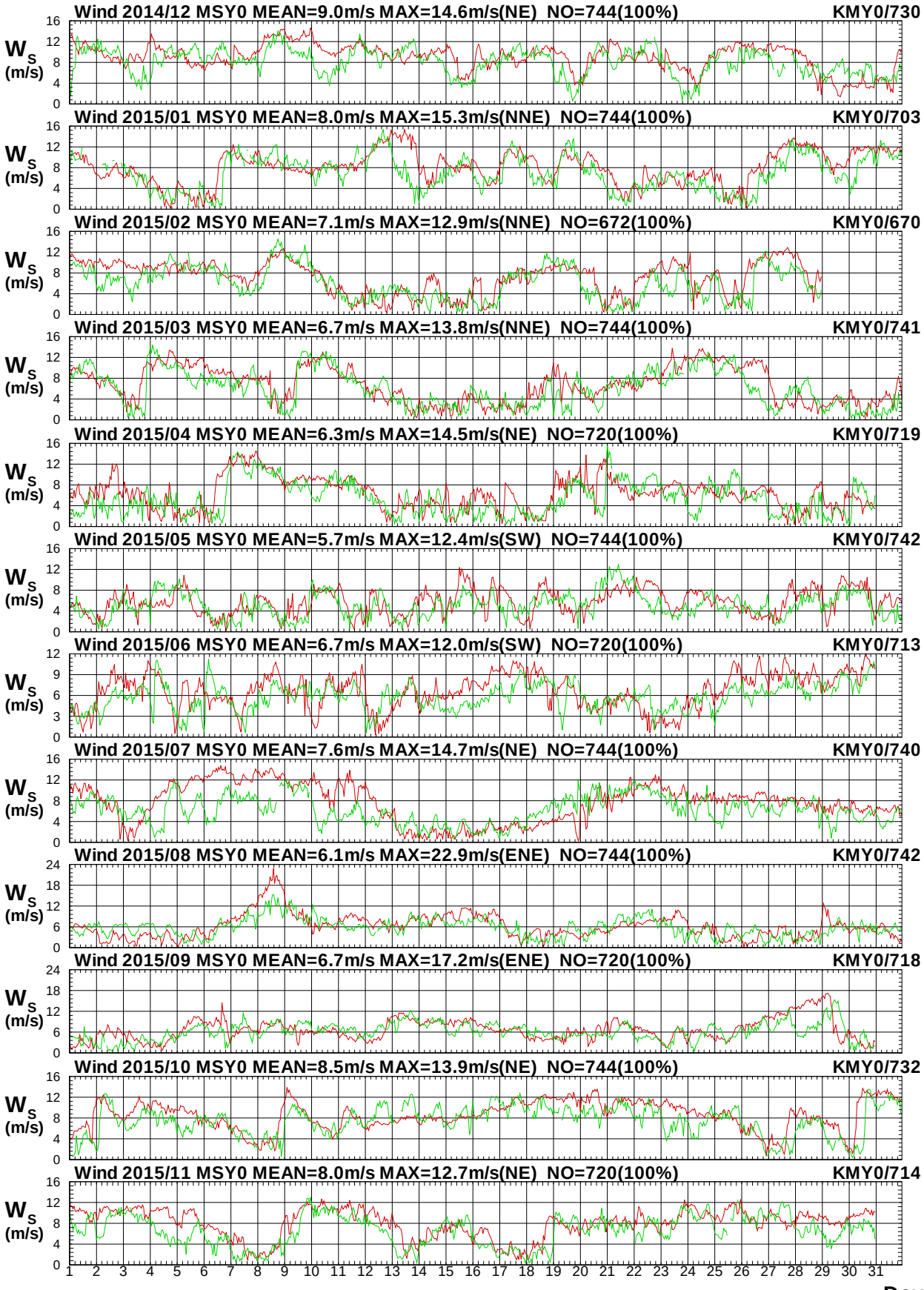

圖12.8a　2015年每月馬祖海域 Y 站與金門海域 Y 站風速圖

W14CMSY0.1HA W14CKMY0.1H0 W151MSY0.1HA W151KMY0.1H0 W152MSY0.1HA W152KMY0.1H0
W153MSY0.1HA W153KMY0.1H0 W154MSY0.1HA W154KMY0.1H0 W155MSY0.1HA W155KMY0.1H0

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Wind Direction in Ma-Tsu Seas of MSY0 at 2015

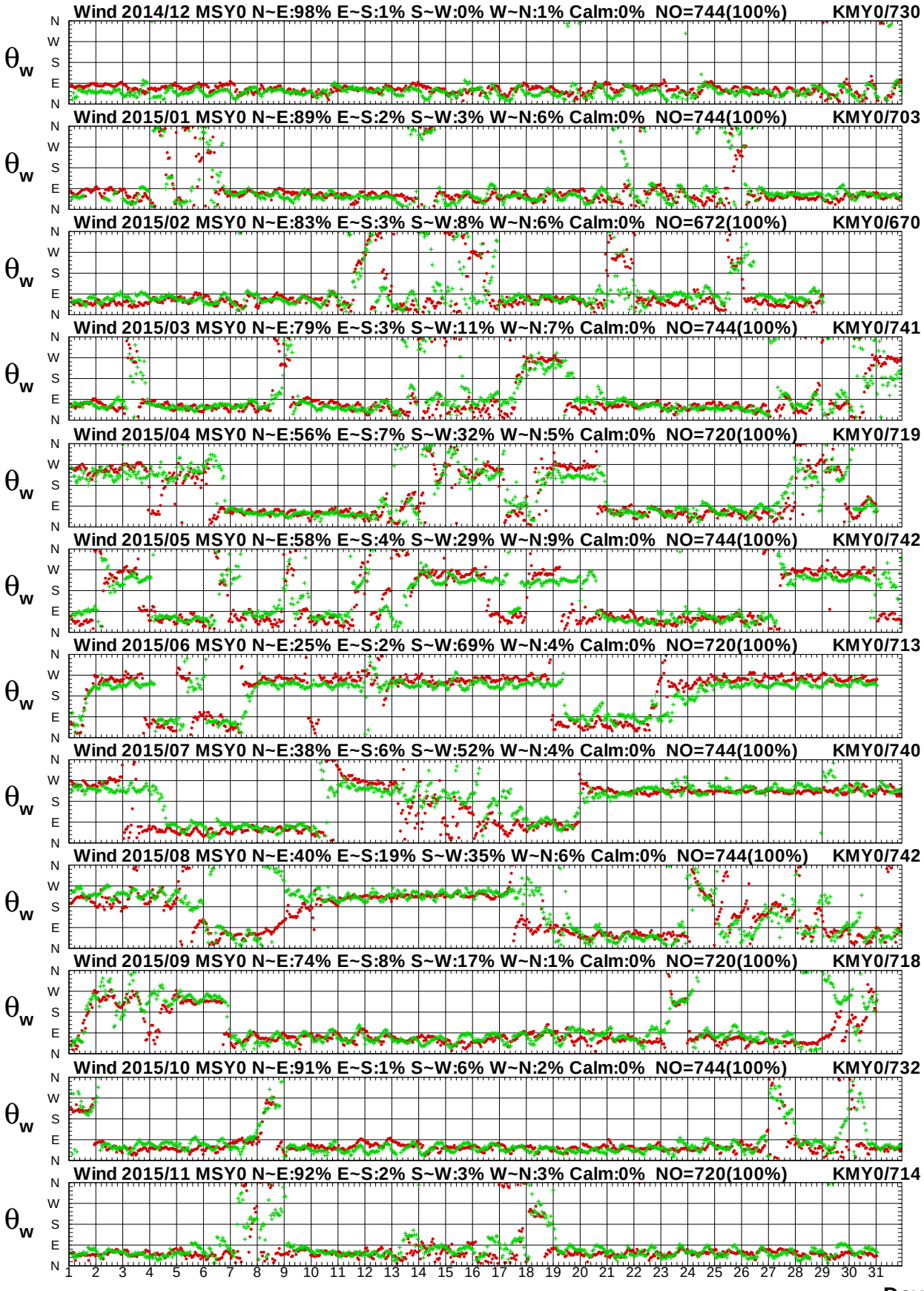

圖 12.8b　2015年每月馬祖海域 Y 站與金門海域 Y 站風向圖

Wind Speed in Ma-Tsu Seas of MSY0 at 2015

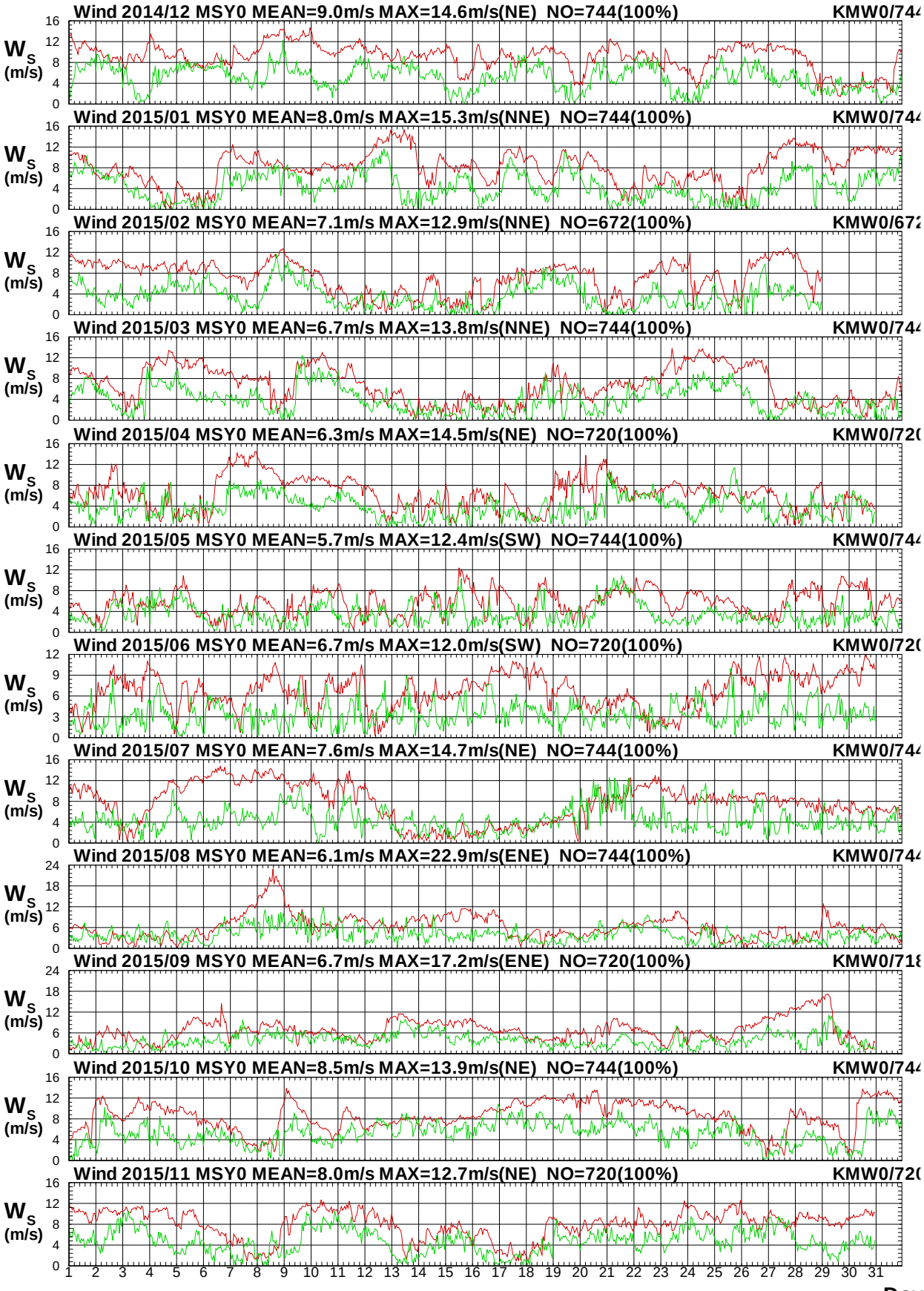

圖12.9a　2015年每月馬祖海域 Y 站與金門海域 W 站風速圖

Wind Direction in Ma-Tsu Seas of MSY0 at 2015

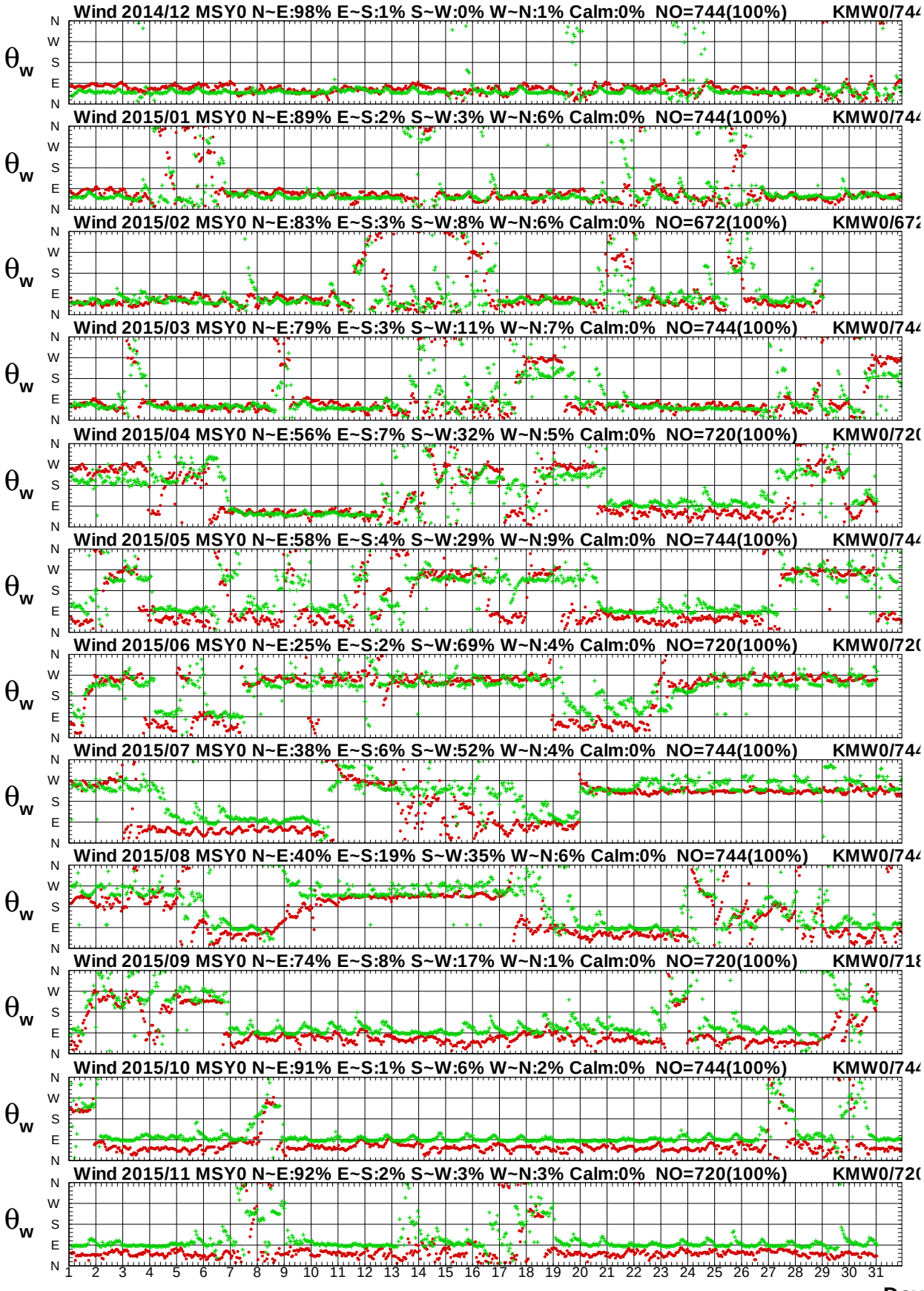

圖 12.9b　2015年每月馬祖海域 Y 站與金門海域 W 站風向圖

Wind Speed in Ma-Tsu Seas of MSY0 at 2015

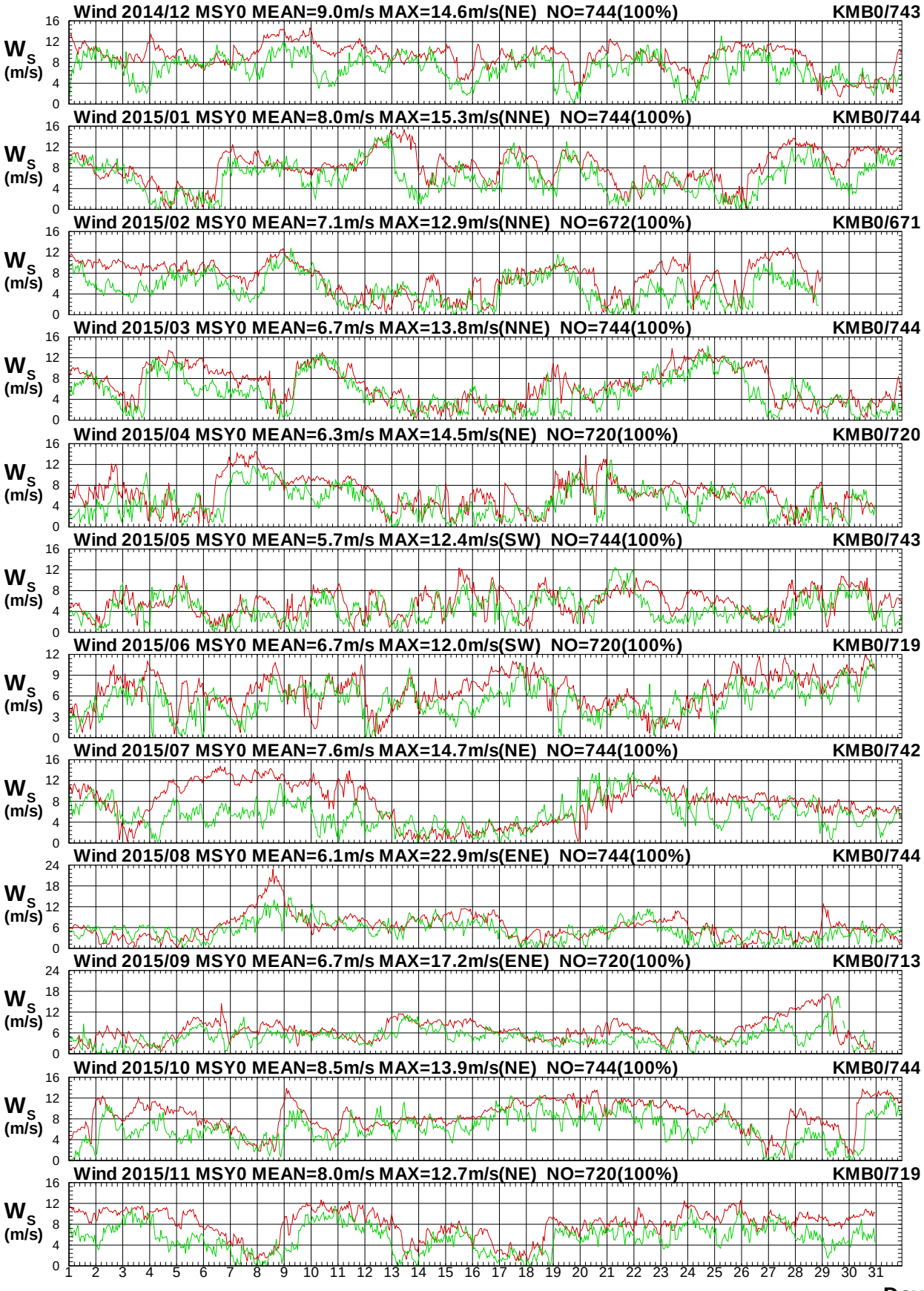

圖 12.10a　2015年每月馬祖海域 Y 站與金門海域 B 站風速圖

W14CMSY0.1HA W14CKMB0.1H0 W151MSY0.1HA W151KMB0.1H0 W152MSY0.1HA W152KMB0.1H0
W153MSY0.1HA W153KMB0.1H0 W154MSY0.1HA W154KMB0.1H0 W155MSY0.1HA W155KMB0.1H0

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Wind Direction in Ma-Tsu Seas of MSY0 at 2015

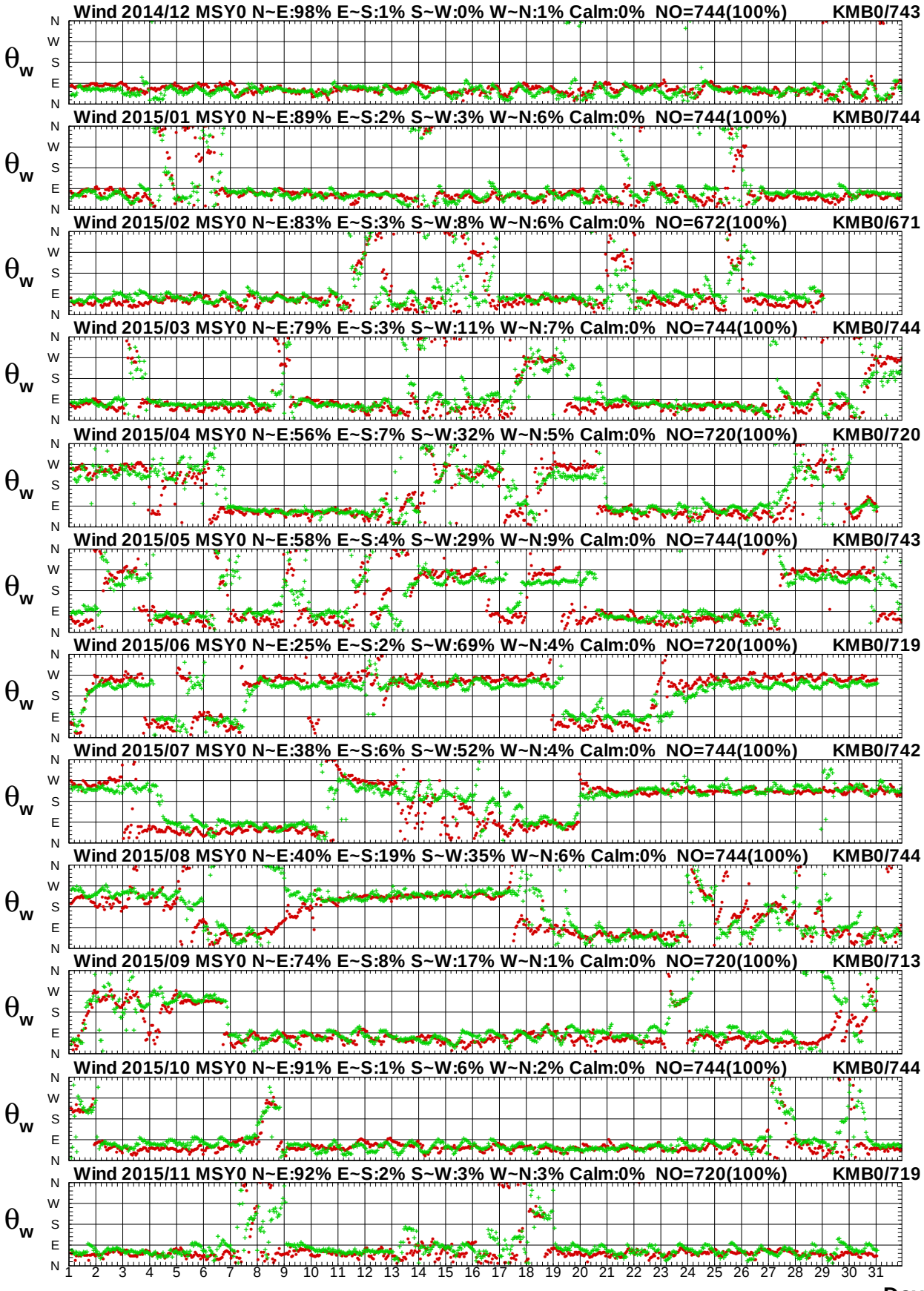

圖 12.10b　2015年每月馬祖海域 Y 站與金門海域 B 站風向圖

Wind Speed in Ma-Tsu Seas of MSY0 at 2015

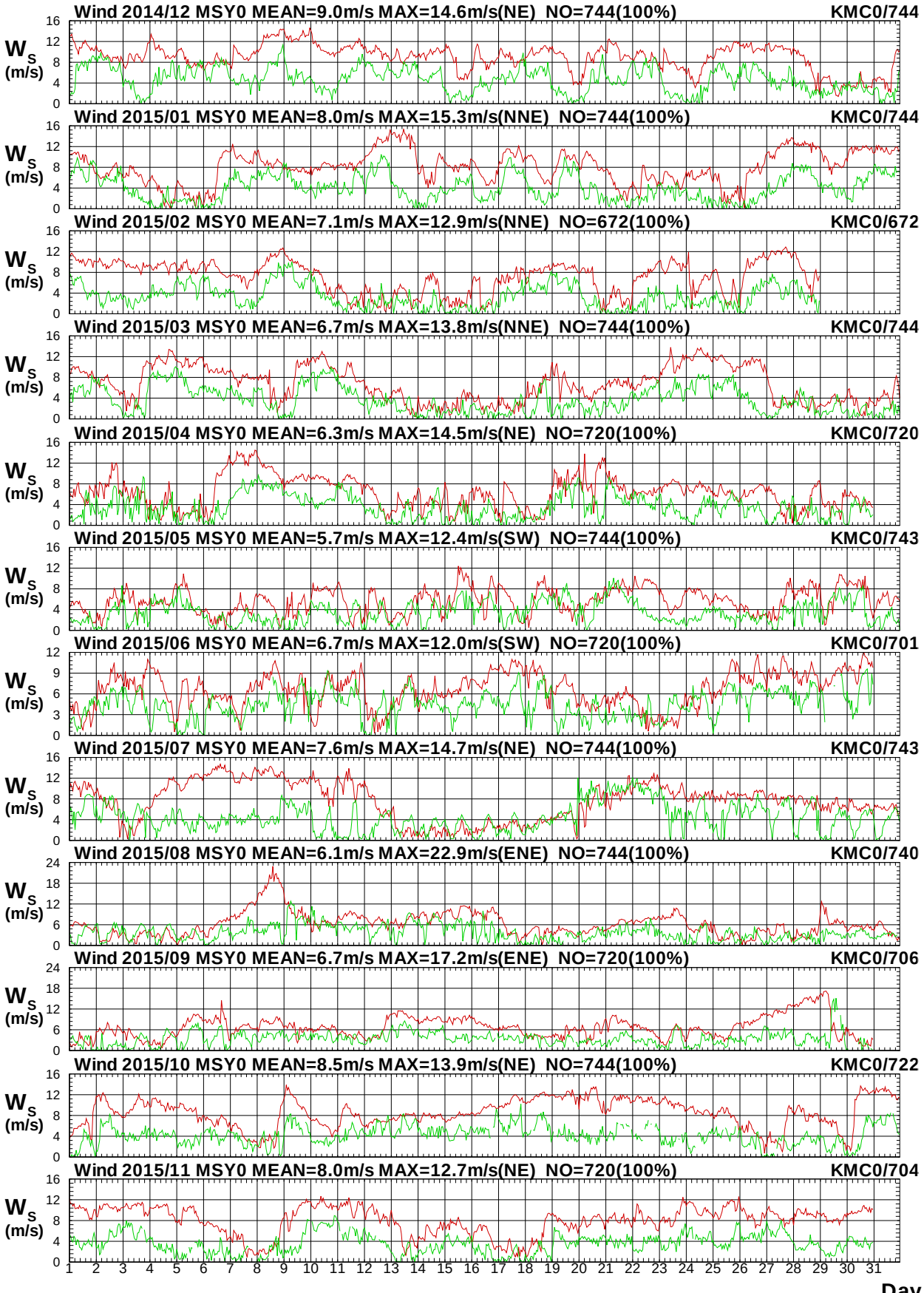

圖 12.11a　2015年每月馬祖海域 Y 站與金門海域 C 站風速圖

W14CMSY0.1HA W14CKMC0.1H0 W151MSY0.1HA W151KMC0.1H0 W152MSY0.1HA W152KMC0.1H0
W153MSY0.1HA W153KMC0.1H0 W154MSY0.1HA W154KMC0.1H0 W155MSY0.1HA W155KMC0.1H0

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Wind Direction in Ma-Tsu Seas of MSY0 at 2015

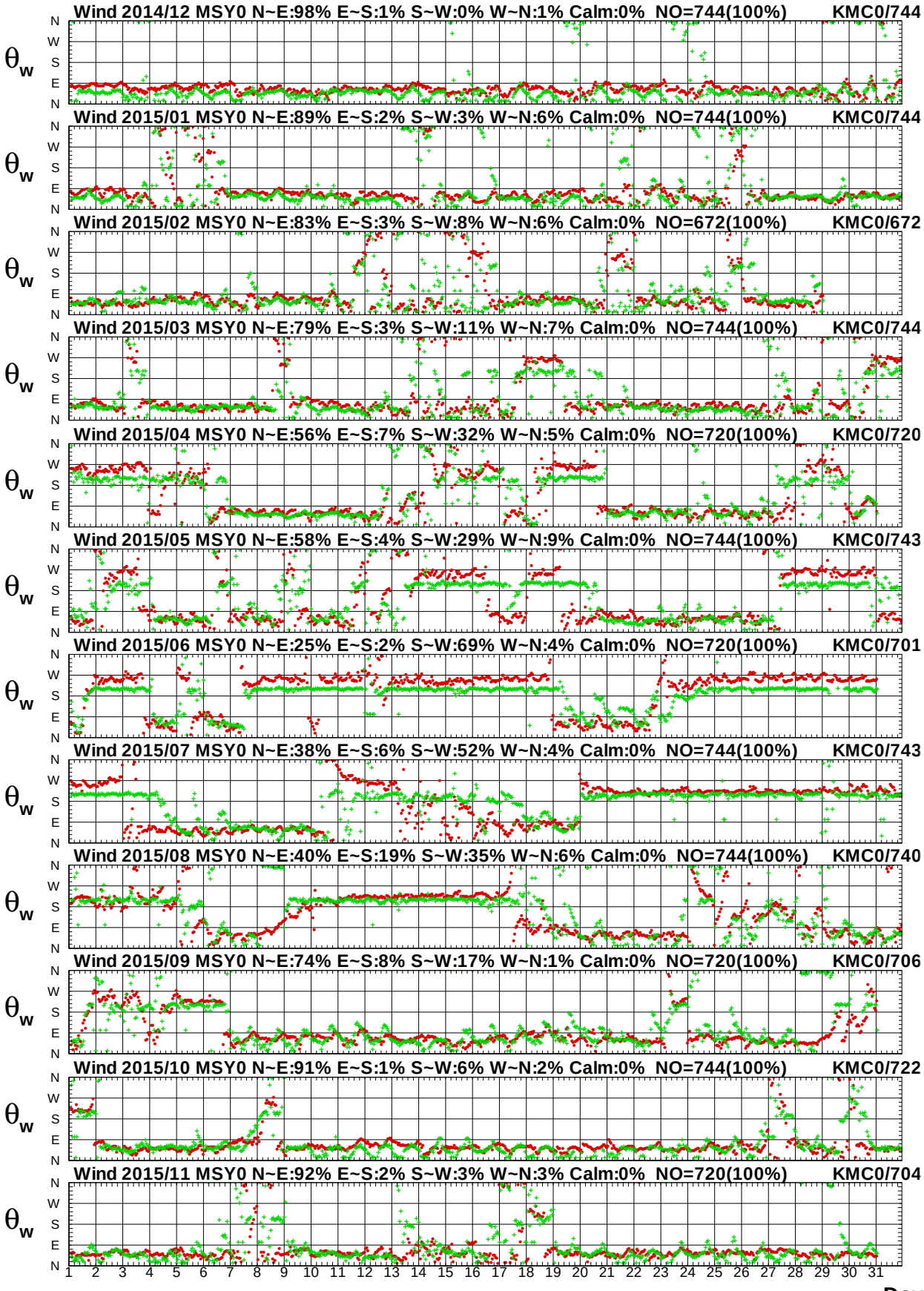

圖 12.11b　2015年每月馬祖海域 Y 站與金門海域 C 站風向圖

Wind Speed in Ma-Tsu Seas of MSY0 at 2015

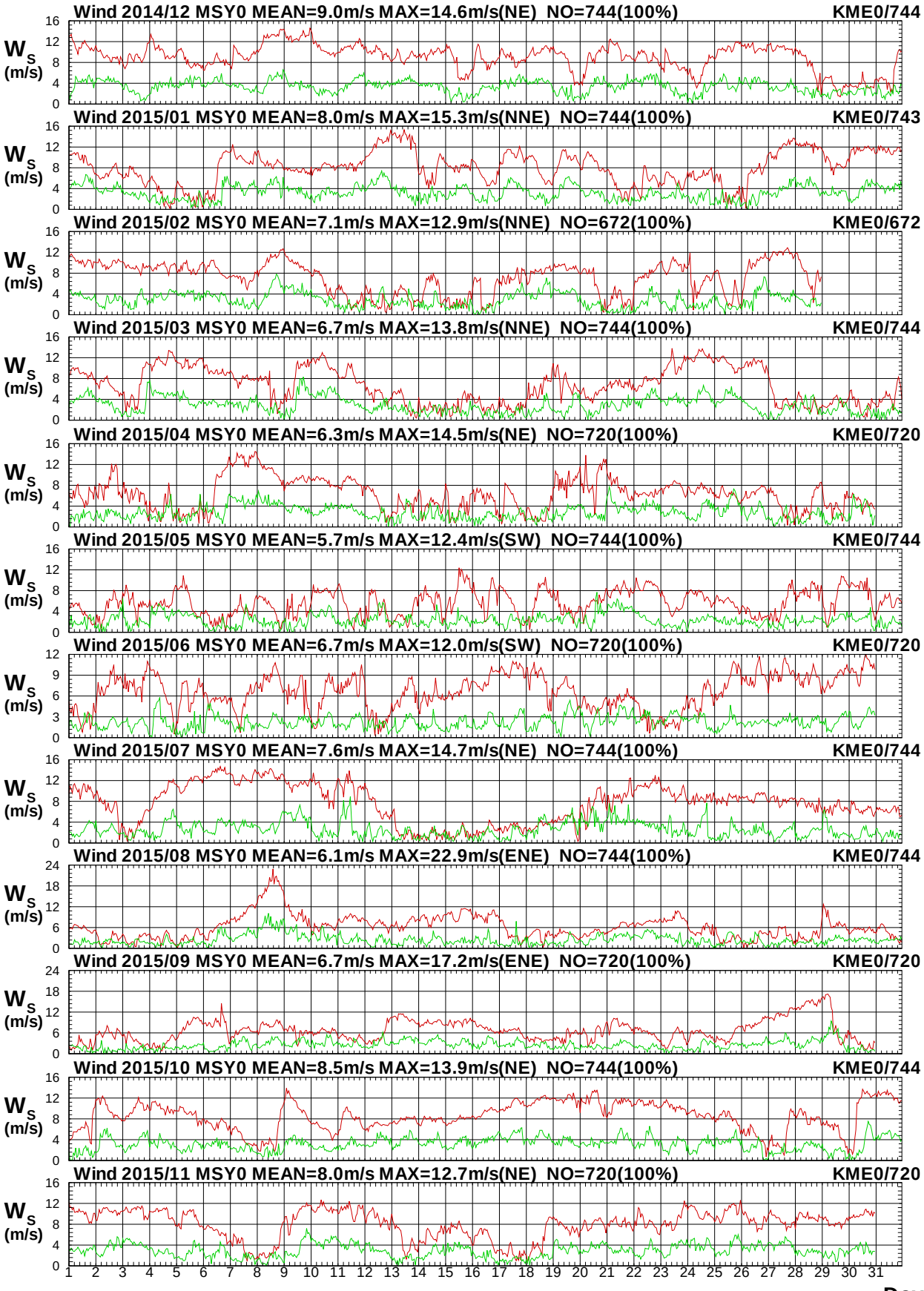

圖 12.12a　2015年每月馬祖海域 Y 站與金門海域 E 站風速圖

Wind Direction in Ma-Tsu Seas of MSY0 at 2015

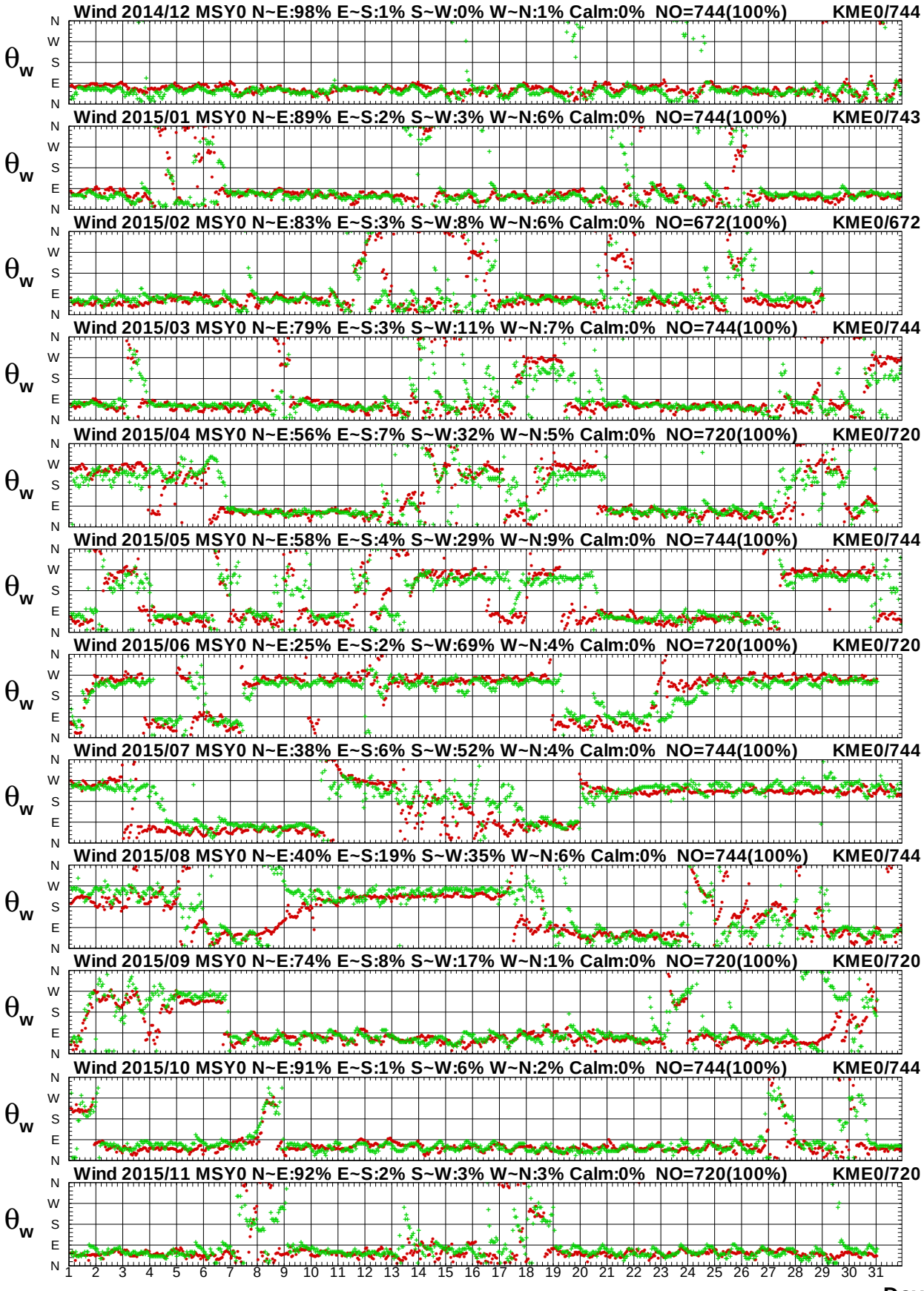

圖 12.12b　2015年每月馬祖海域 Y 站與金門海域 E 站風向圖

Wind Speed in Ma-Tsu Seas of MSY0 at 2015

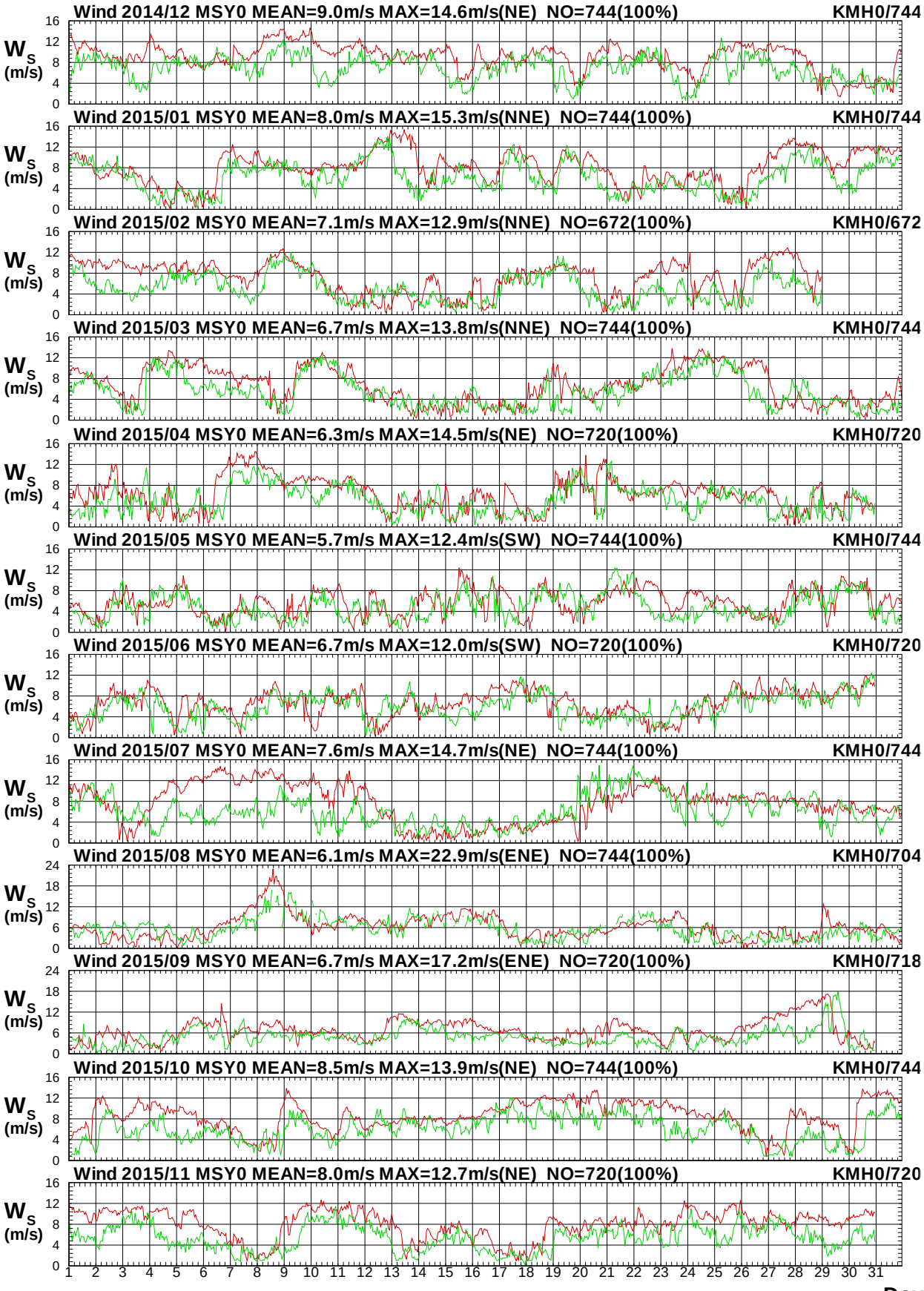

圖 12.13a　2015年每月馬祖海域 Y 站與金門海域 H 站風速圖

W14CMSY0.1HA W14CKMH0.1H0 W151MSY0.1HA W151KMH0.1H0 W152MSY0.1HA W152KMH0.1H0
W153MSY0.1HA W153KMH0.1H0 W154MSY0.1HA W154KMH0.1H0 W155MSY0.1HA W155KMH0.1H0

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Wind Direction in Ma-Tsu Seas of MSY0 at 2015

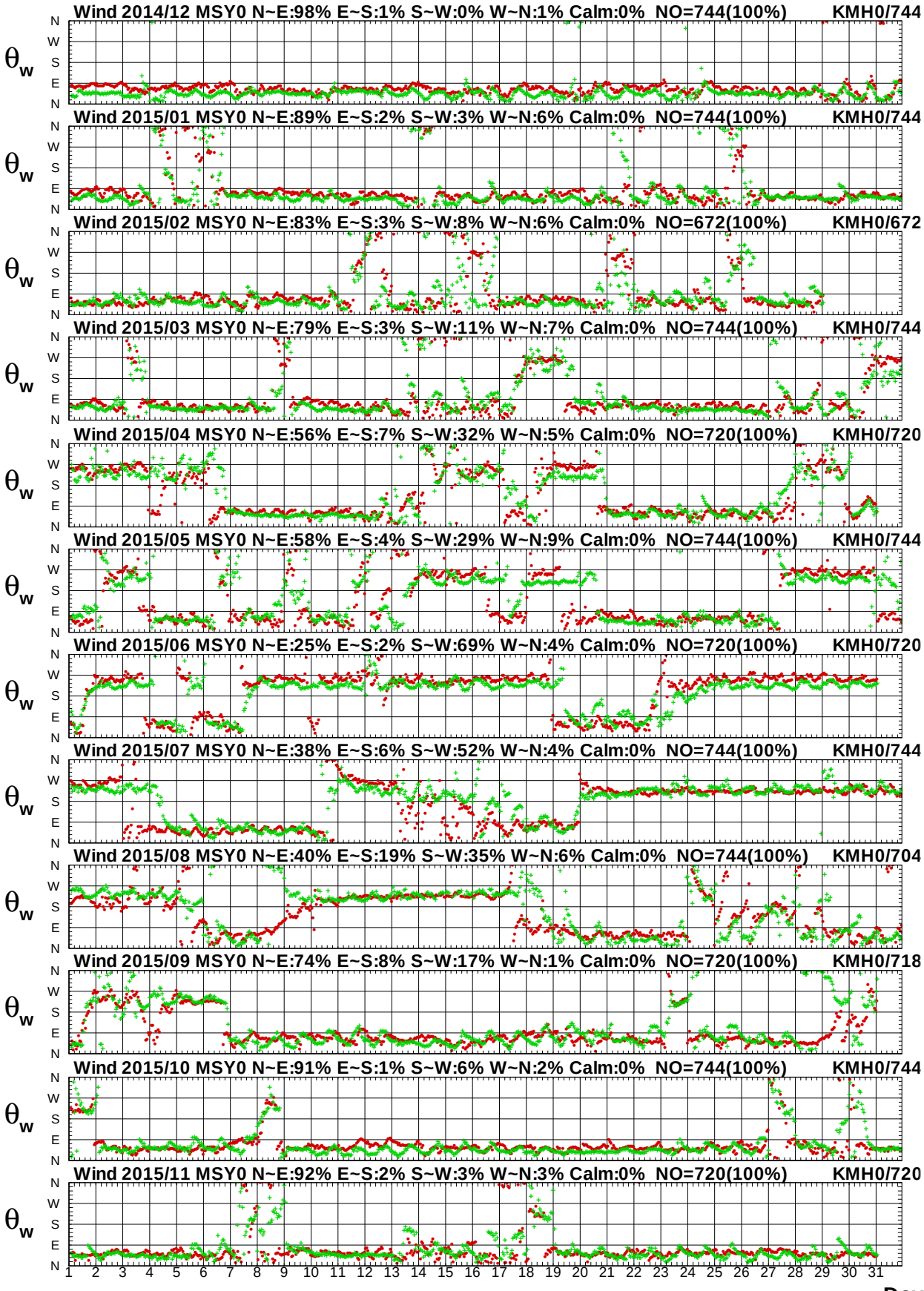

圖 12.13b　2015年每月馬祖海域 Y 站與金門海域 H 站風向圖

Wind Speed in Ma-Tsu Seas of MSY0 at 2015

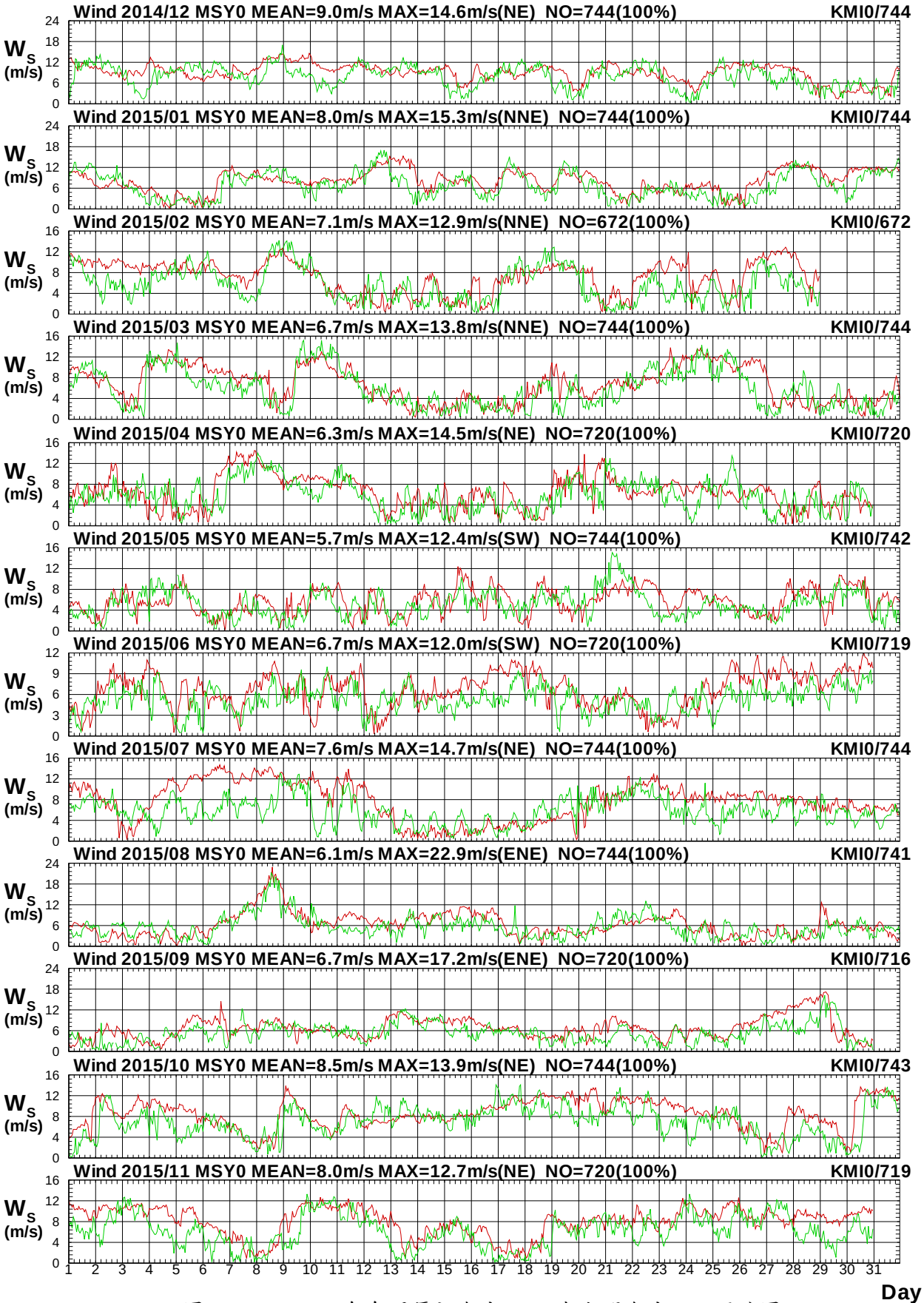

圖12.14a　2015年每月馬祖海域 Y 站與金門海域 I 站風速圖

W14CMSY0.1HA W14CKMI0.1H0 W151MSY0.1HA W151KMI0.1H0 W152MSY0.1HA W152KMI0.1H0
W153MSY0.1HA W153KMI0.1H0 W154MSY0.1HA W154KMI0.1H0 W155MSY0.1HA W155KMI0.1H0

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Wind Direction in Ma-Tsu Seas of MSY0 at 2015

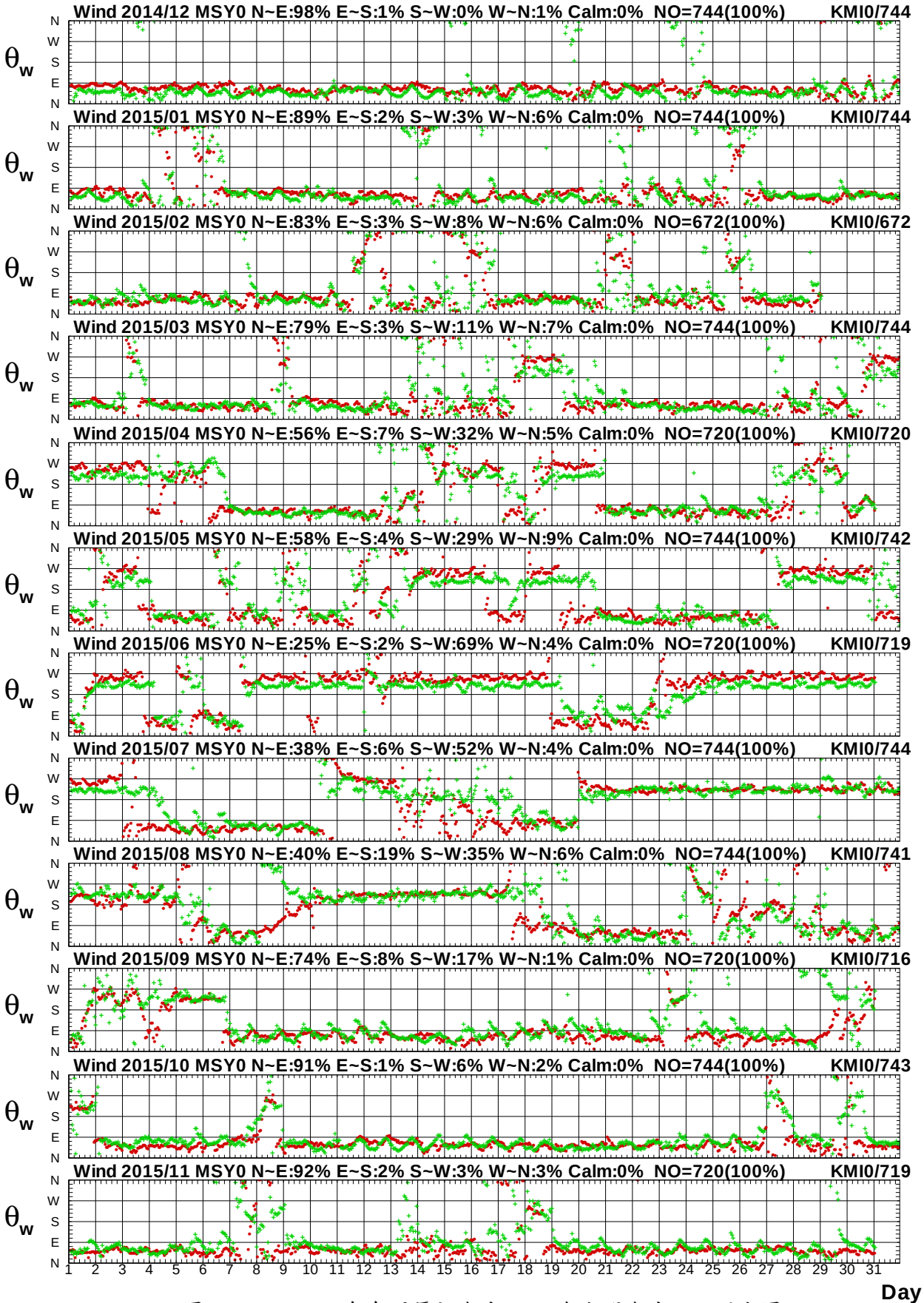

圖 12.14b　2015年每月馬祖海域 Y 站與金門海域 I 站風向圖

Wind Speed in Ma-Tsu Seas of MSY0 at 2015

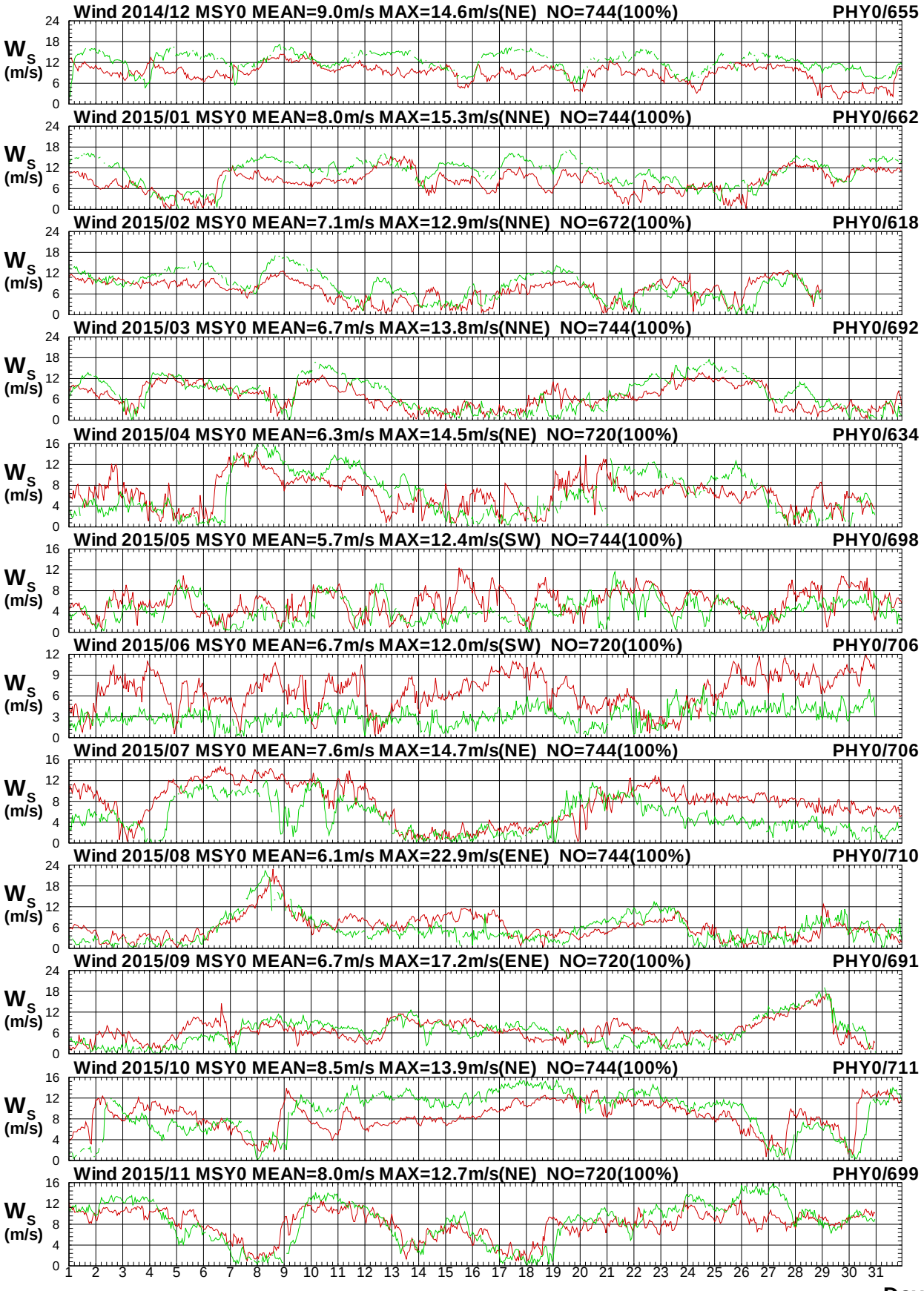

圖 12.15a　2015年每月馬祖海域 Y 站與澎湖海域 Y 站風速圖

Wind Direction in Ma-Tsu Seas of MSY0 at 2015

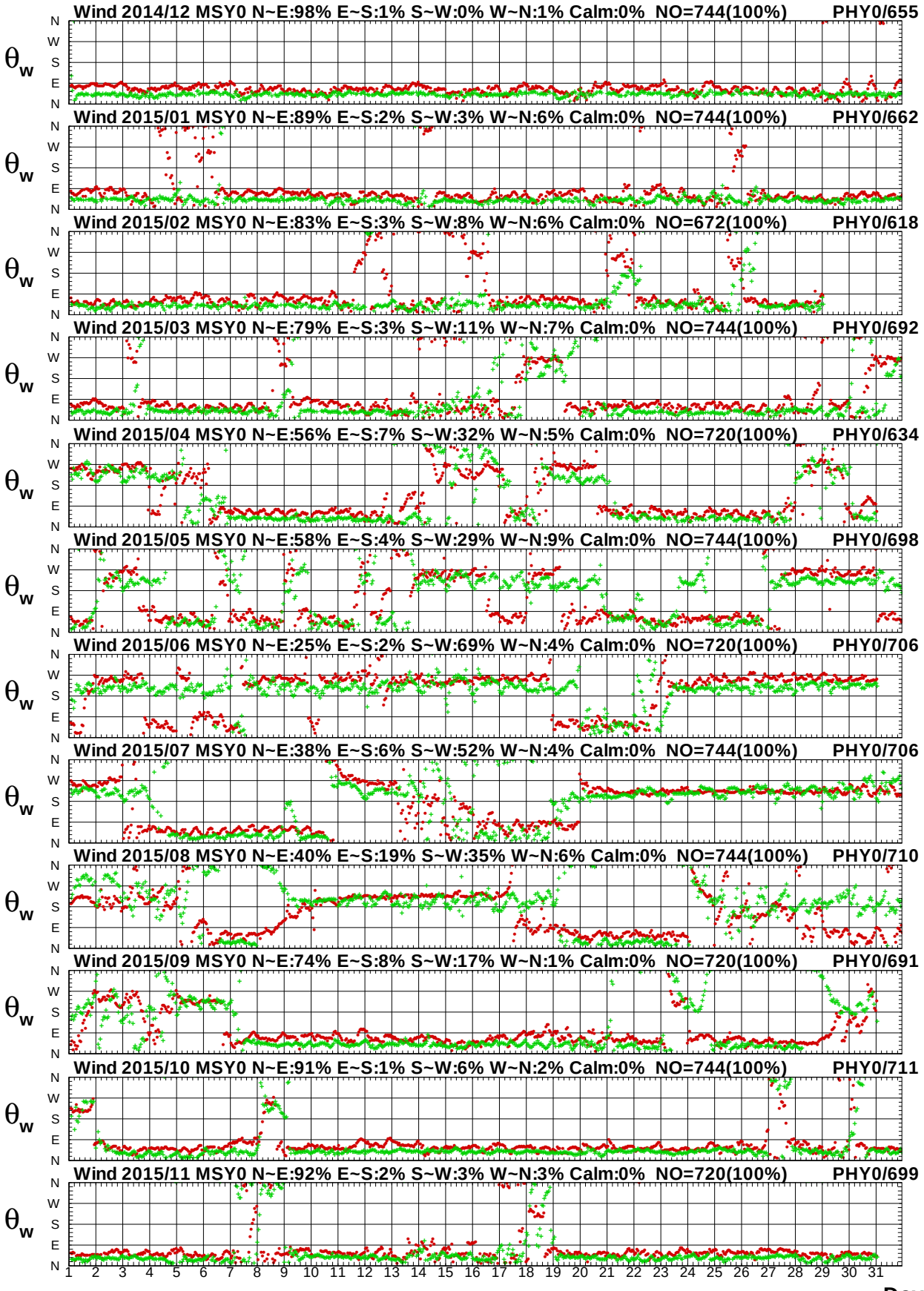

圖 12.15b　2015年每月馬祖海域 Y 站與澎湖海域 Y 站風向圖

Wind Speed in Ma-Tsu Seas of MSY0 at 2015

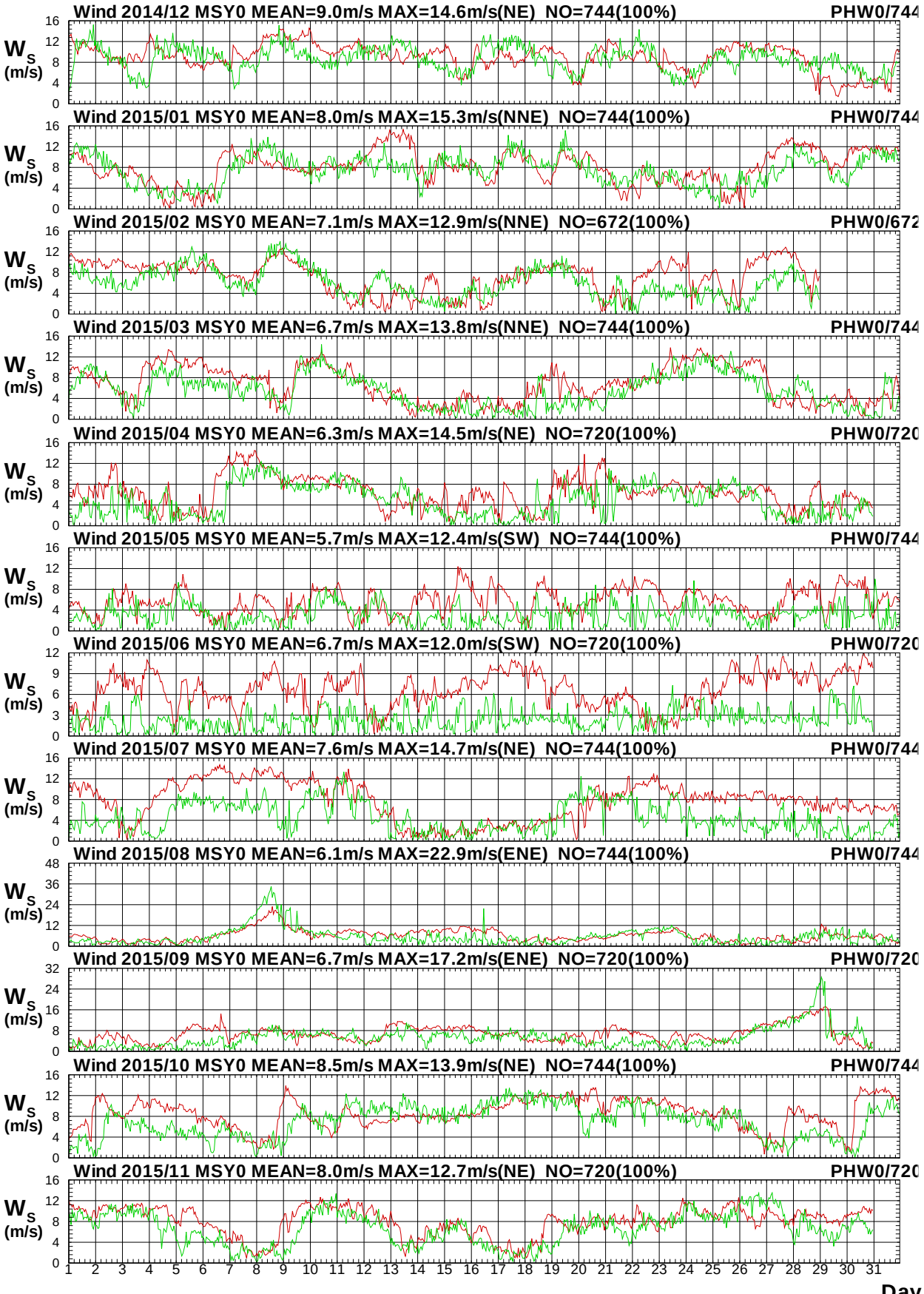

圖12.16a　2015年每月馬祖海域 Y 站與澎湖海域 W 站風速圖

Wind Direction in Ma-Tsu Seas of MSY0 at 2015

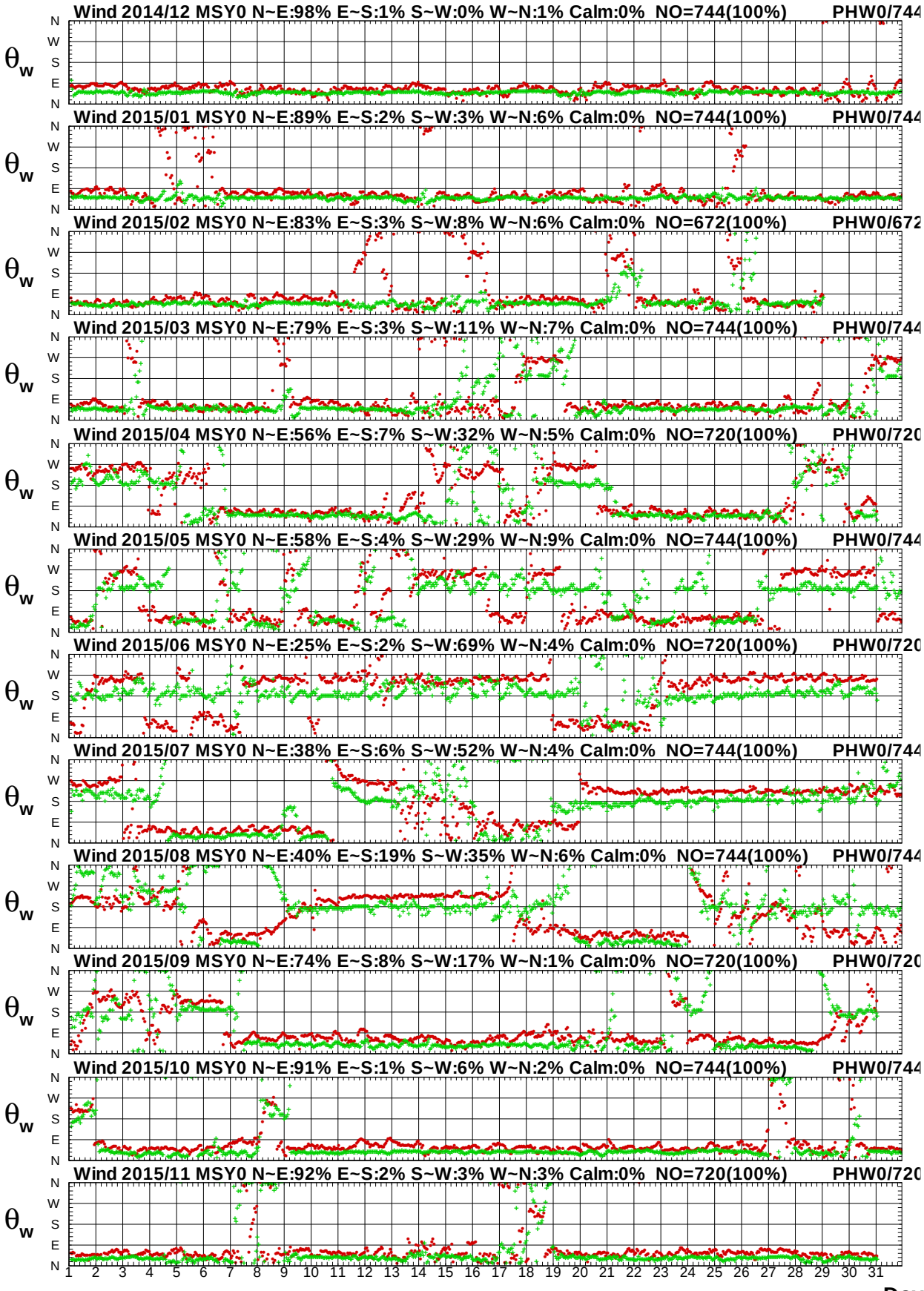

圖 12.16b　2015年每月馬祖海域 Y 站與澎湖海域 W 站風向圖

Wind Speed in Ma-Tsu Seas of MSY0 at 2015

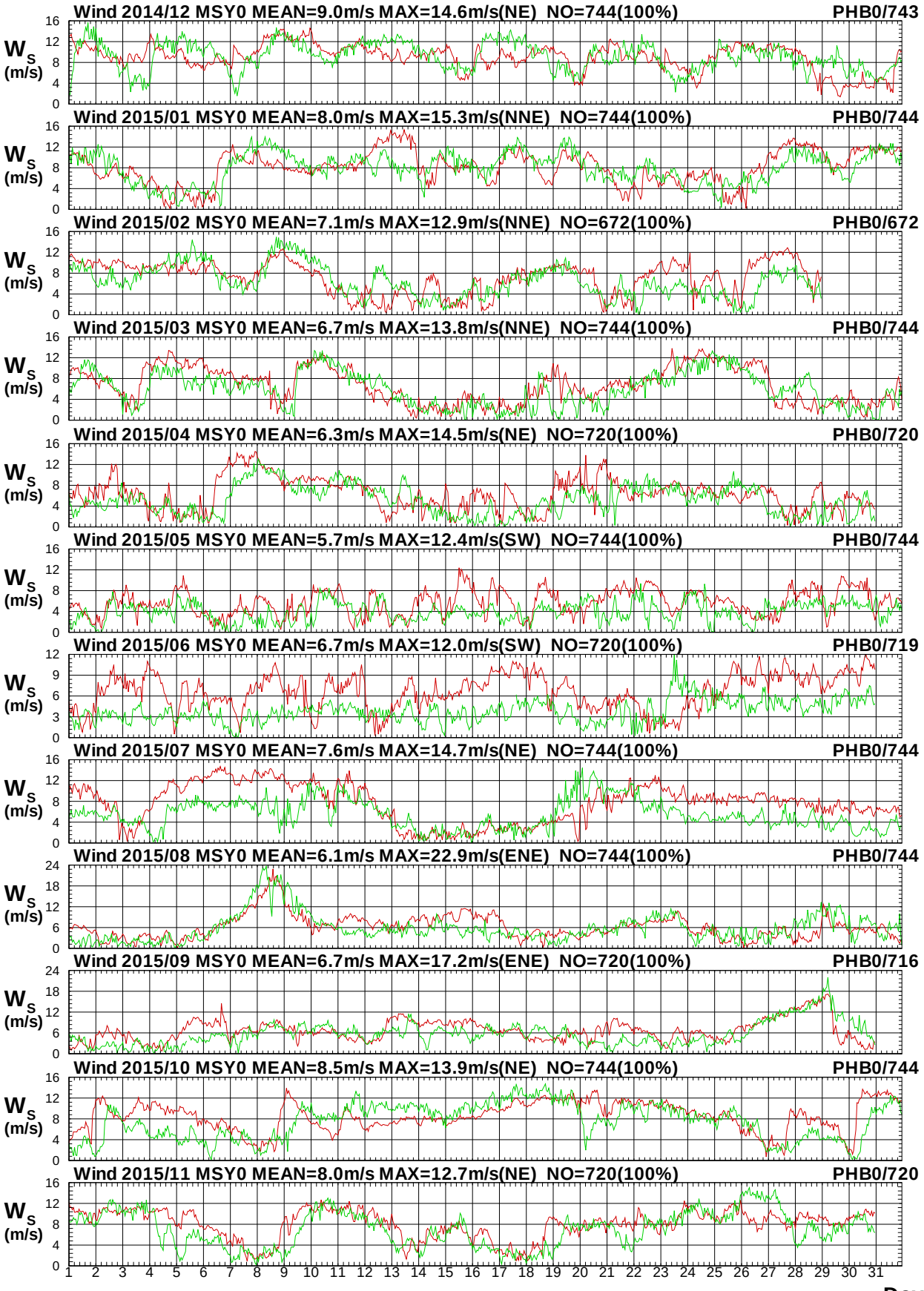

圖 12.17a　2015年每月馬祖海域 Y 站與澎湖海域 B 站風速圖

W14CMSY0.1HA W14CPHB0.1H0 W151MSY0.1HA W151PHB0.1H0 W152MSY0.1HA W152PHB0.1H0
W153MSY0.1HA W153PHB0.1H0 W154MSY0.1HA W154PHB0.1H0 W155MSY0.1HA W155PHB0.1H0

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Wind Direction in Ma-Tsu Seas of MSY0 at 2015

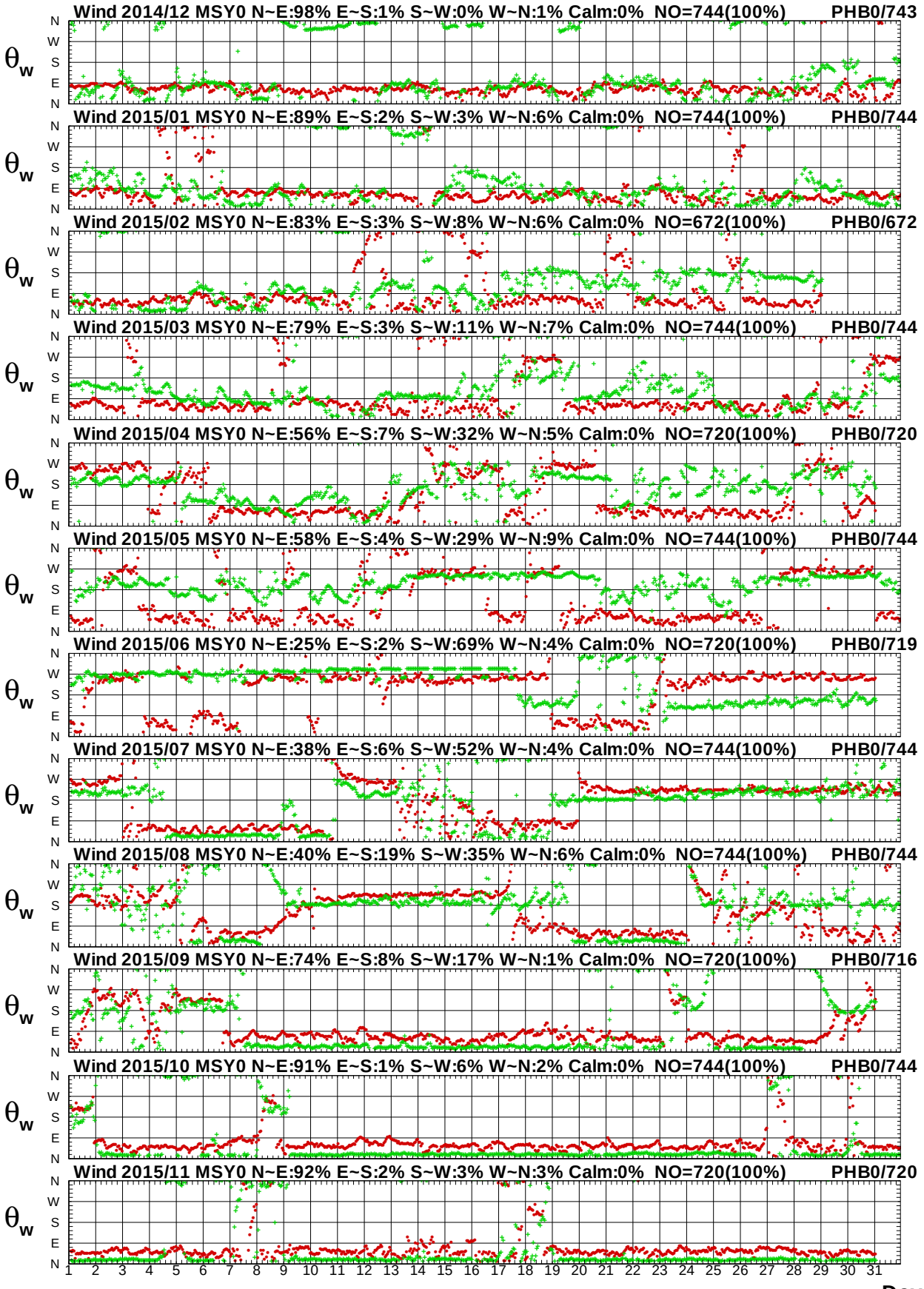

圖 12.17b　2015年每月馬祖海域 Y 站與澎湖海域 B 站風向圖

Wind Speed in Ma-Tsu Seas of MSY0 at 2015

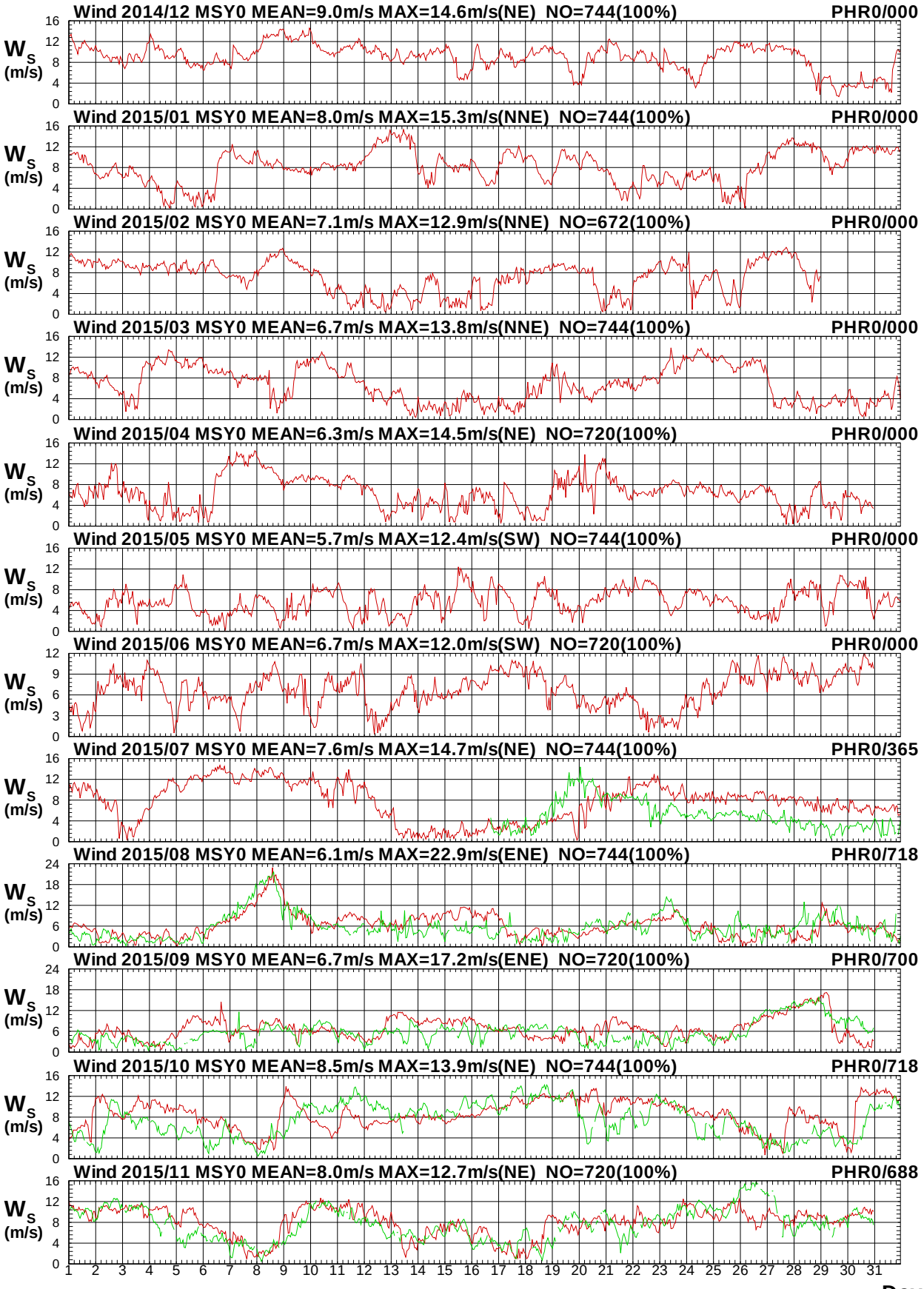

圖 12.18a　2015年每月馬祖海域 Y 站與澎湖海域 R 站風速圖

W14CMSY0.1HA W14CPHR0.1H0 W151MSY0.1HA W151PHR0.1H0 W152MSY0.1HA W152PHR0.1H0
W153MSY0.1HA W153PHR0.1H0 W154MSY0.1HA W154PHR0.1H0 W155MSY0.1HA W155PHR0.1H0

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Wind Direction in Ma-Tsu Seas of MSY0 at 2015

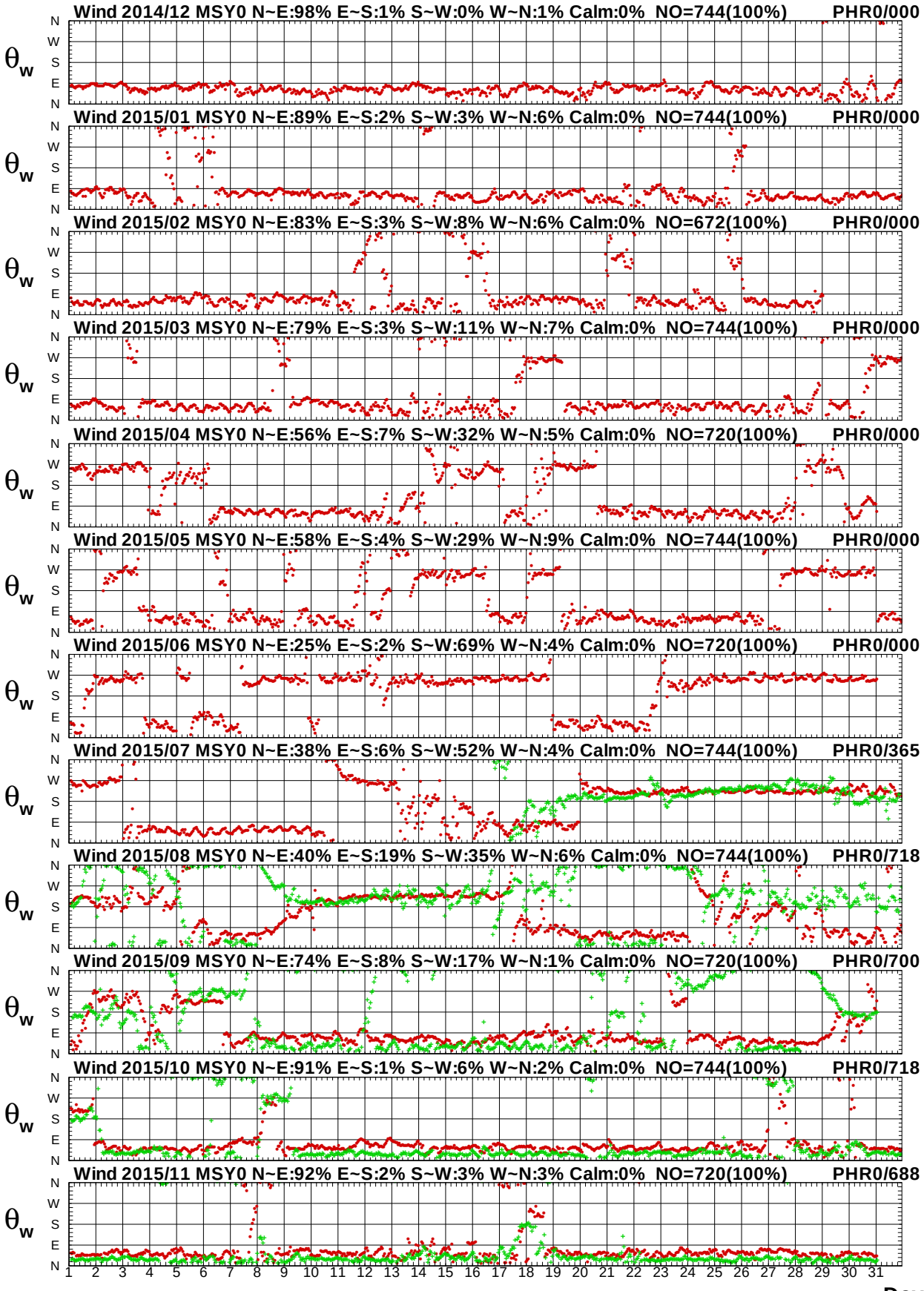

圖 12.18b　2015年每月馬祖海域 Y 站與澎湖海域 R 站風向圖

Wind Speed in Ma-Tsu Seas of MSY0 at 2015

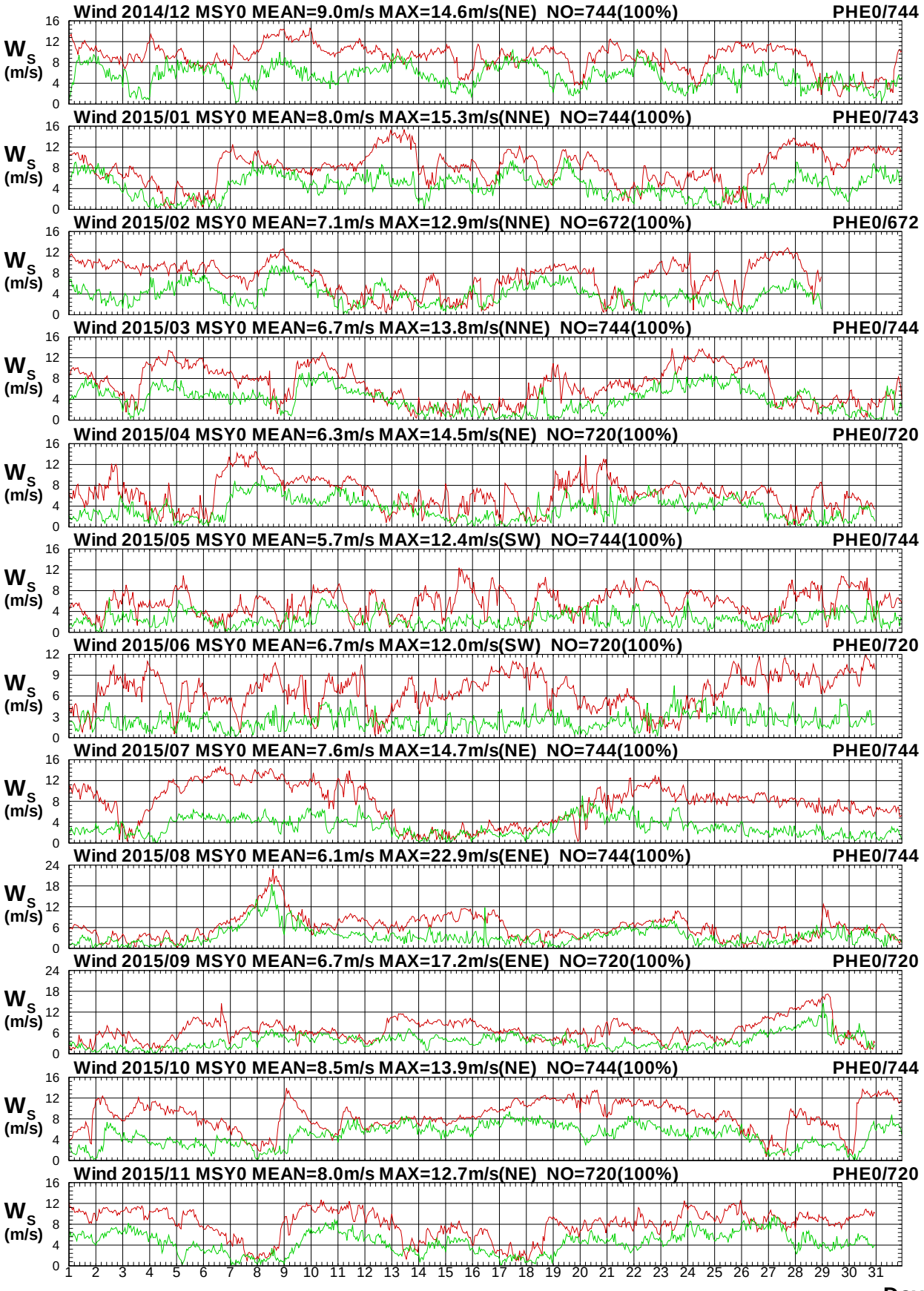

圖 12.19a　2015年每月馬祖海域 Y 站與澎湖海域 E 站風速圖

W14CMSY0.1HA W14CPHE0.1H0 W151MSY0.1HA W151PHE0.1H0 W152MSY0.1HA W152PHE0.1H0
W153MSY0.1HA W153PHE0.1H0 W154MSY0.1HA W154PHE0.1H0 W155MSY0.1HA W155PHE0.1H0

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Wind Direction in Ma-Tsu Seas of MSY0 at 2015

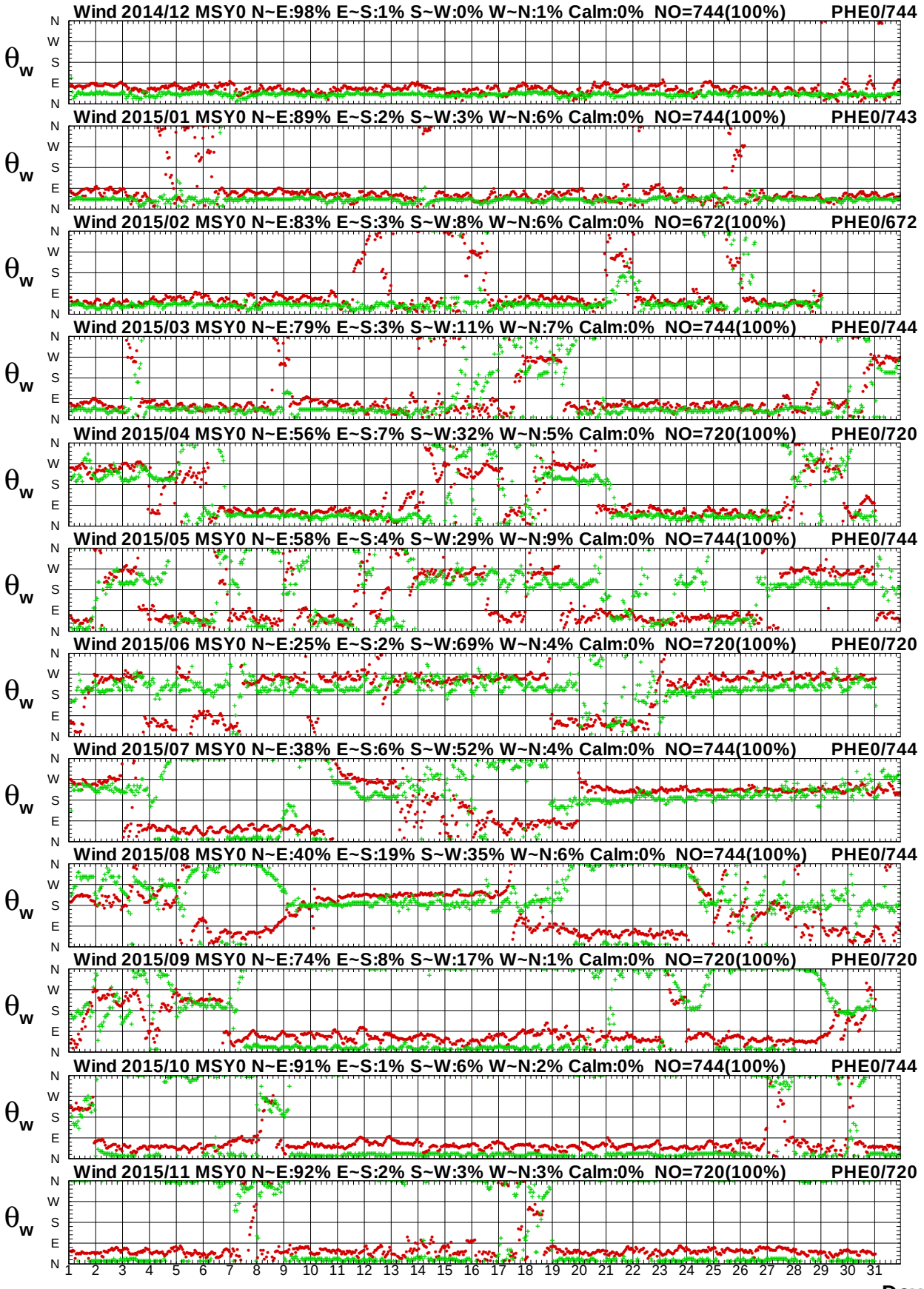

圖 12.19b　2015年每月馬祖海域 Y 站與澎湖海域 E 站風向圖

W14CMSY0.1HA W14CPHE0.1H0 W151MSY0.1HA W151PHE0.1H0 W152MSY0.1HA W152PHE0.1H0
W153MSY0.1HA W153PHE0.1H0 W154MSY0.1HA W154PHE0.1H0 W155MSY0.1HA W155PHE0.1H0

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Wind Speed in Ma-Tsu Seas of MSY0 at 2015

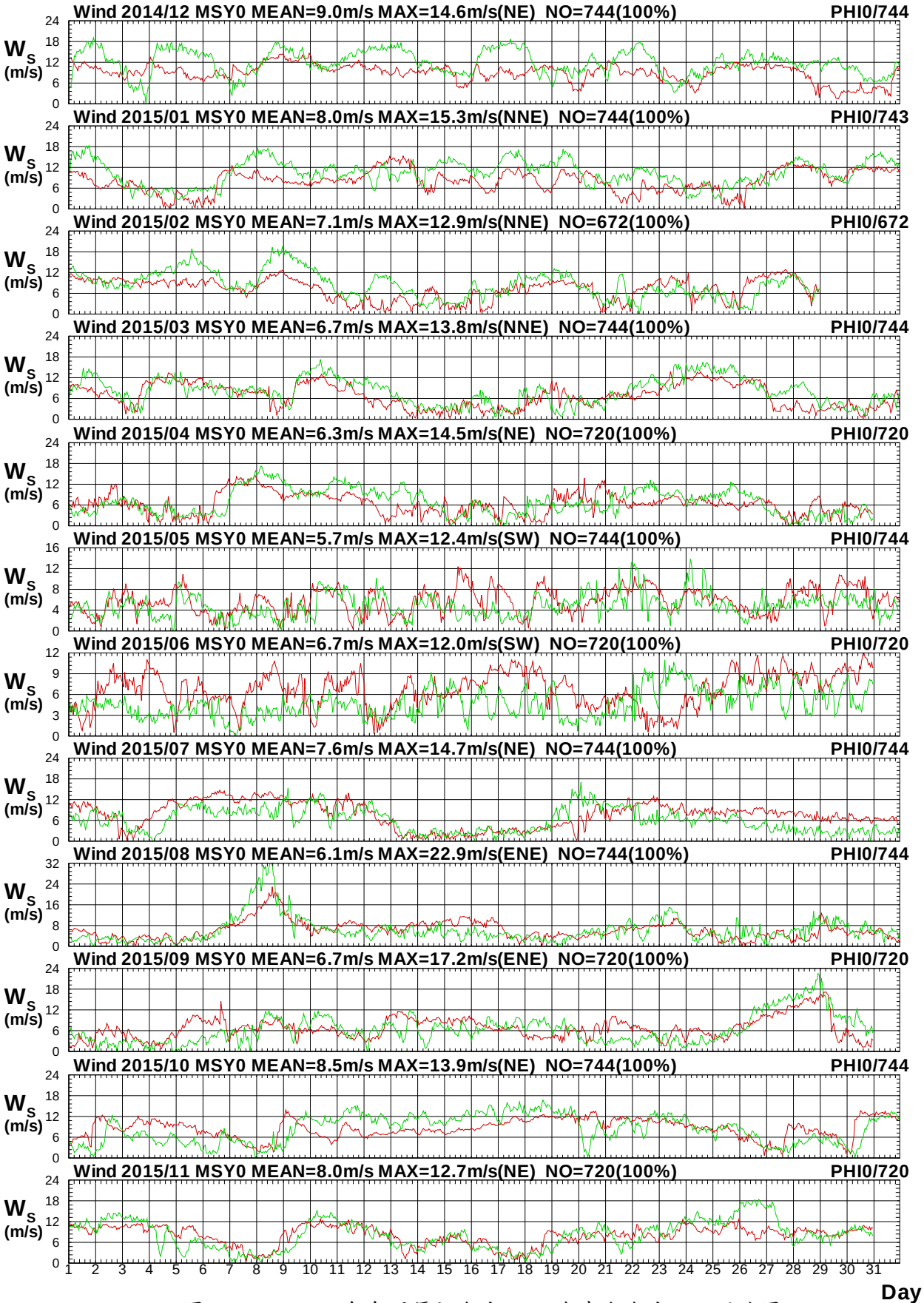

圖 12.20a　2015年每月馬祖海域 Y 站與澎湖海域 I 站風速圖

W14CMSY0.1HA W14CPHI0.1H0 W151MSY0.1HA W151PHI0.1H0 W152MSY0.1HA W152PHI0.1H0
W153MSY0.1HA W153PHI0.1H0 W154MSY0.1HA W154PHI0.1H0 W155MSY0.1HA W155PHI0.1H0

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Wind Direction in Ma-Tsu Seas of MSY0 at 2015

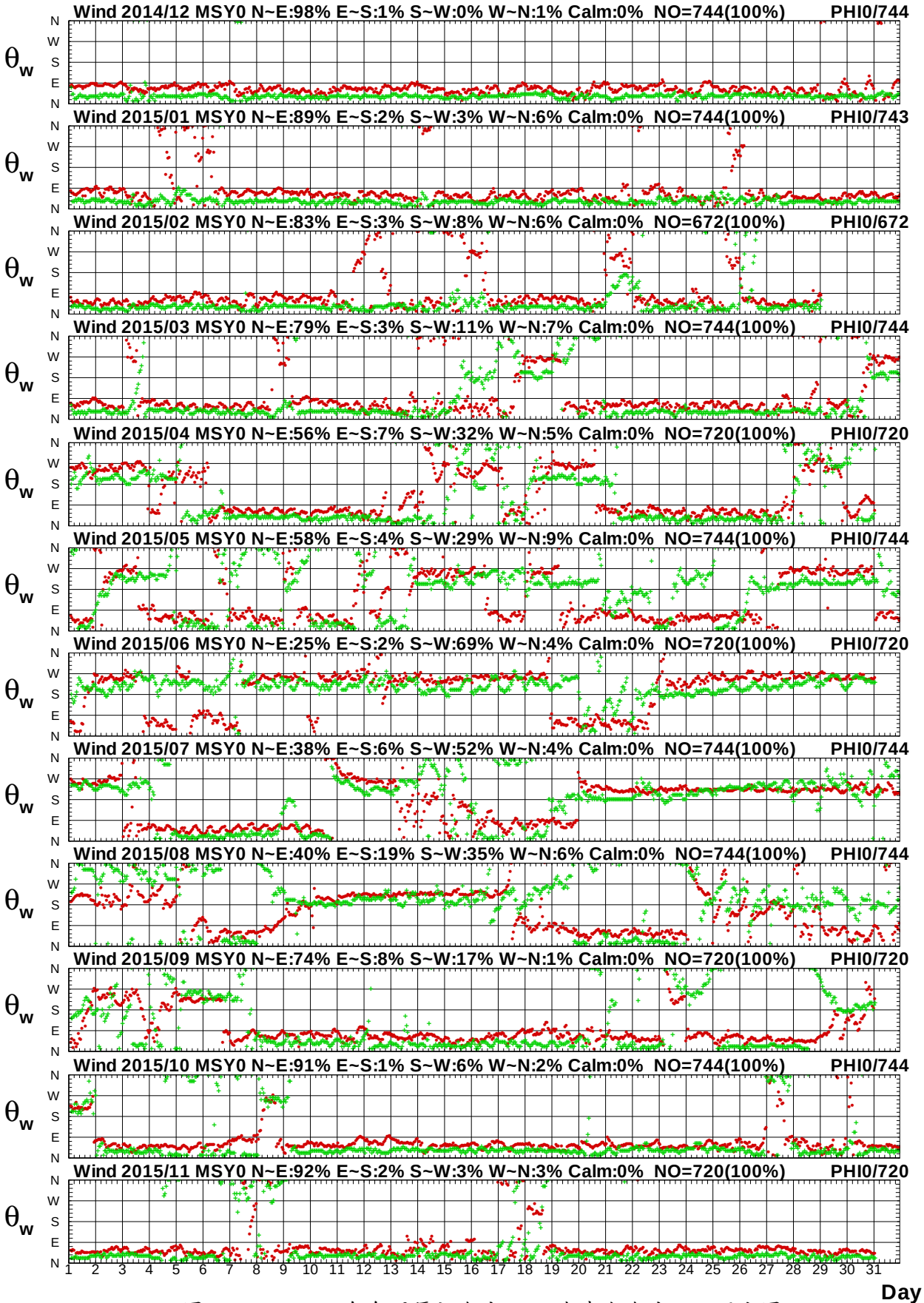

圖 12.20b　2015年每月馬祖海域 Y 站與澎湖海域 I 站風向圖

W14CMSY0.1HA W14CPHI0.1H0 W151MSY0.1HA W151PHI0.1H0 W152MSY0.1HA W152PHI0.1H0
W153MSY0.1HA W153PHI0.1H0 W154MSY0.1HA W154PHI0.1H0 W155MSY0.1HA W155PHI0.1H0

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第十三章 2015 年 12 海域風力主要觀測站資料比較

(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 2014/12

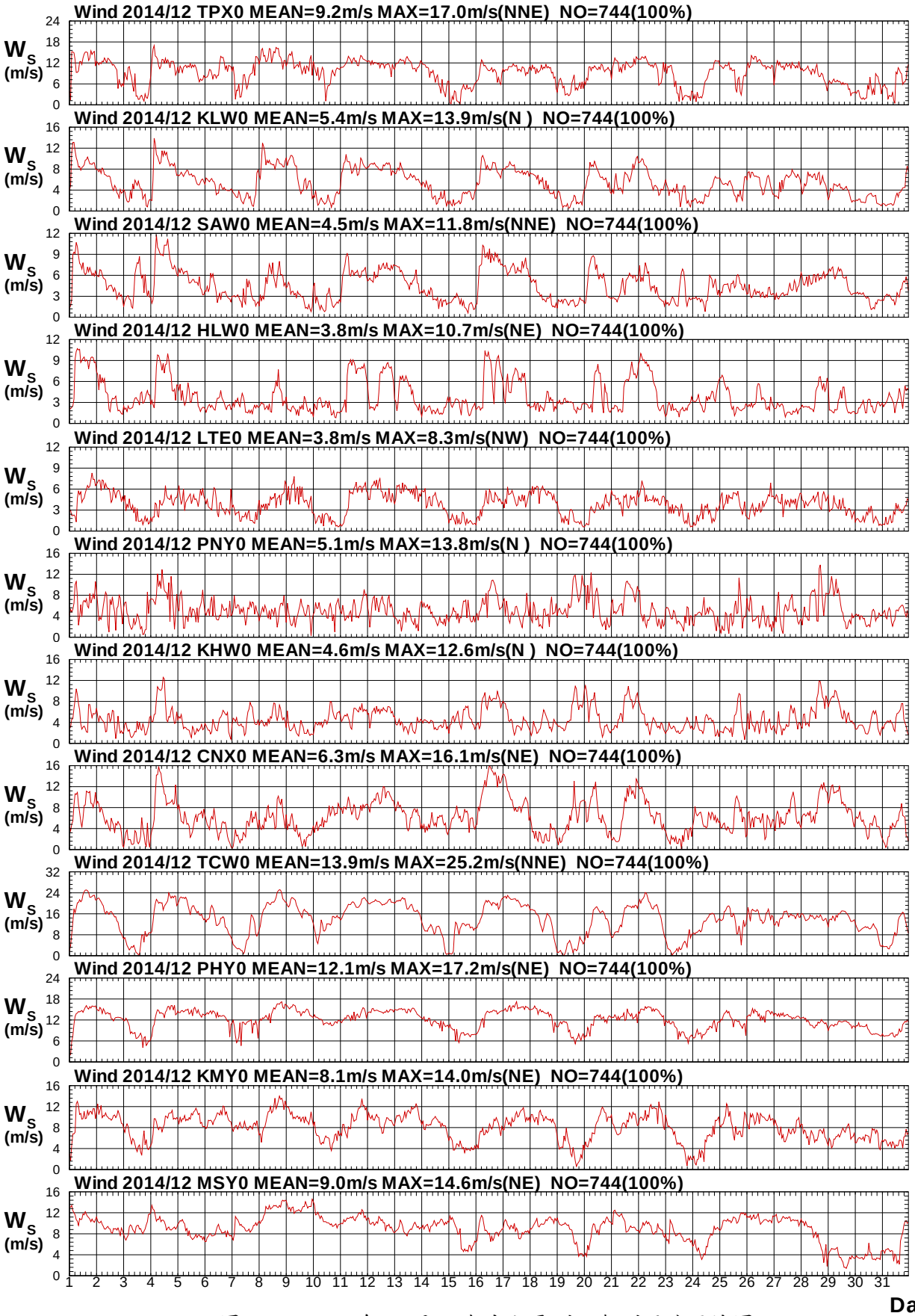

圖 13.1　2014年 12 月 12海域主要測站觀測風速歷線圖

W14CTPX0.1HA W14CKLW0.1HA W14CSAW0.1HA W14CHLW0.1HA W14CLTE0.1HA W14CPNY0.1HA
W14CKHW0.1HA W14CCNX0.1HA W14CTCW0.1HA W14CPHY0.1HA W14CKMY0.1HA W14CMSY0.1HA

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Twelve Seas Wind Direction at 2014/12

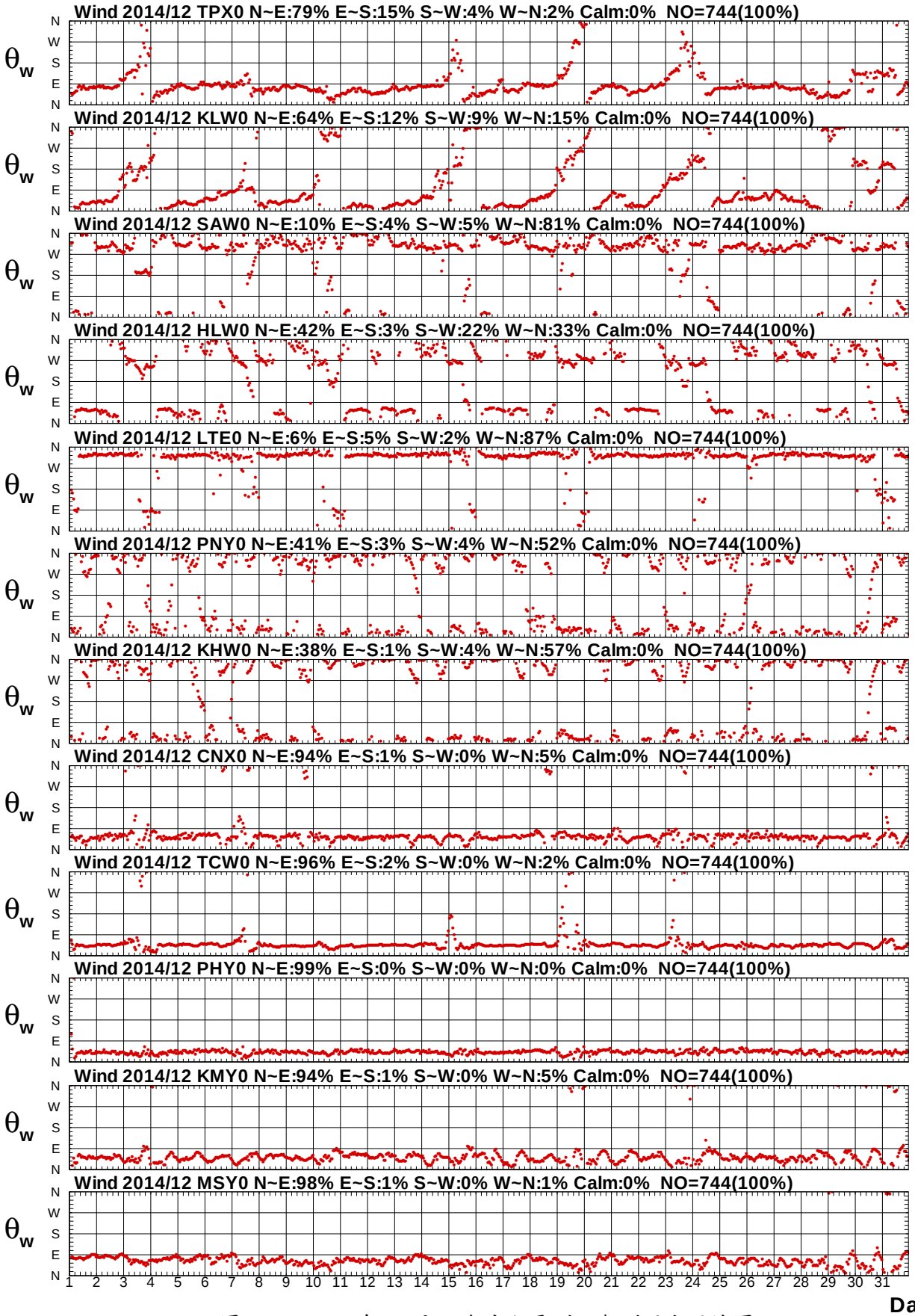

圖 13.2　2014年12月12海域主要測站觀測風向歷線圖

W14CTPX0.1HA W14CKLW0.1HA W14CSAW0.1HA W14CHLW0.1HA W14CLTE0.1HA W14CPNY0.1HA
W14CKHW0.1HA W14CCNX0.1HA W14CTCW0.1HA W14CPHY0.1HA W14CKMY0.1HA W14CMSY0.1HA

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Twelve Seas Wind Speed at 2015/01

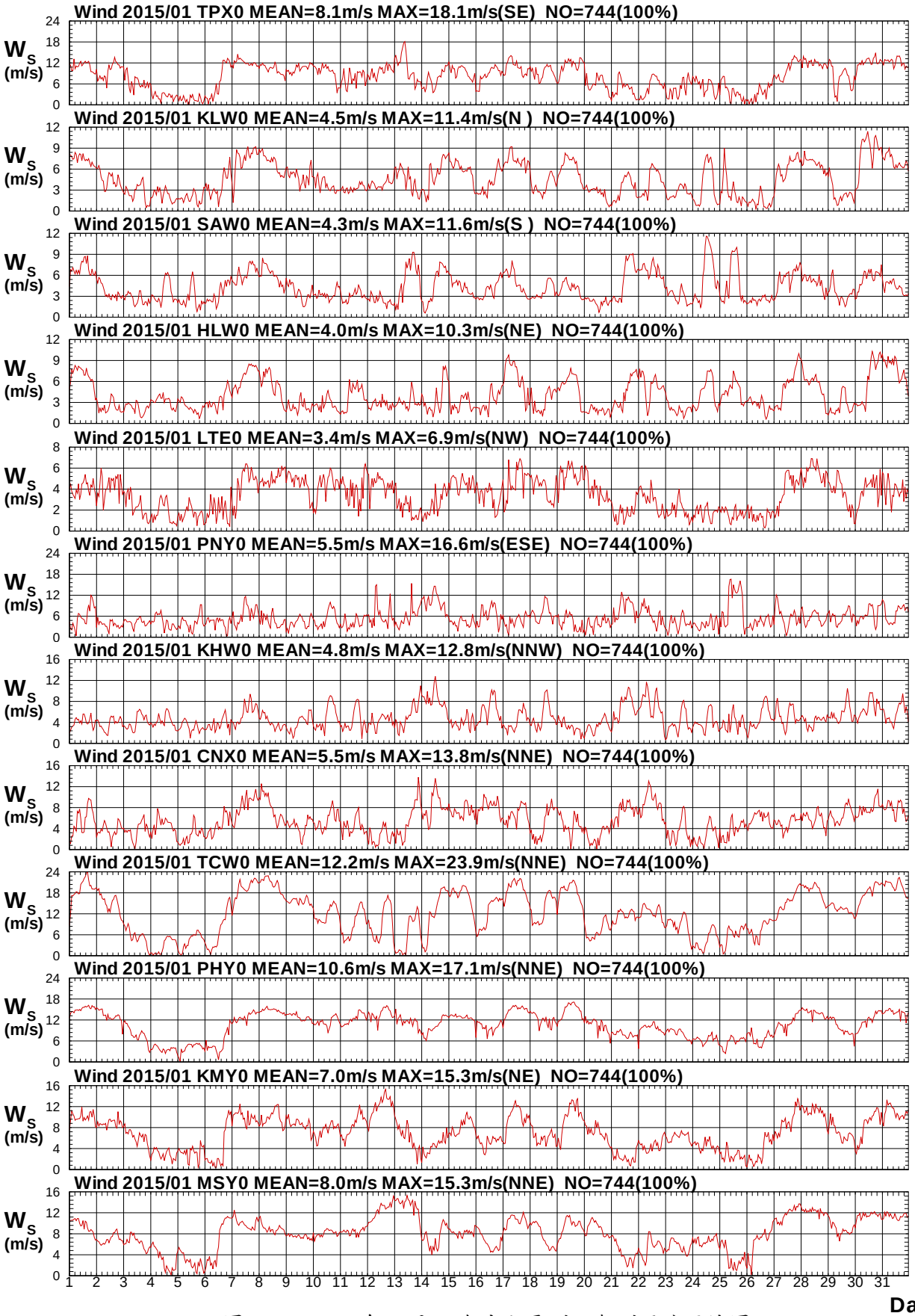

圖 13.3　2015年 1 月 12海域主要測站觀測風速歷線圖

W151TPX0.1HA W151KLW0.1HA W151SAW0.1HA W151HLW0.1HA W151LTE0.1HA W151PNY0.1HA
W151KHW0.1HA W151CNX0.1HA W151TCW0.1HA W151PHY0.1HA W151KMY0.1HA W151MSY0.1HA

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Twelve Seas Wind Direction at 2015/01

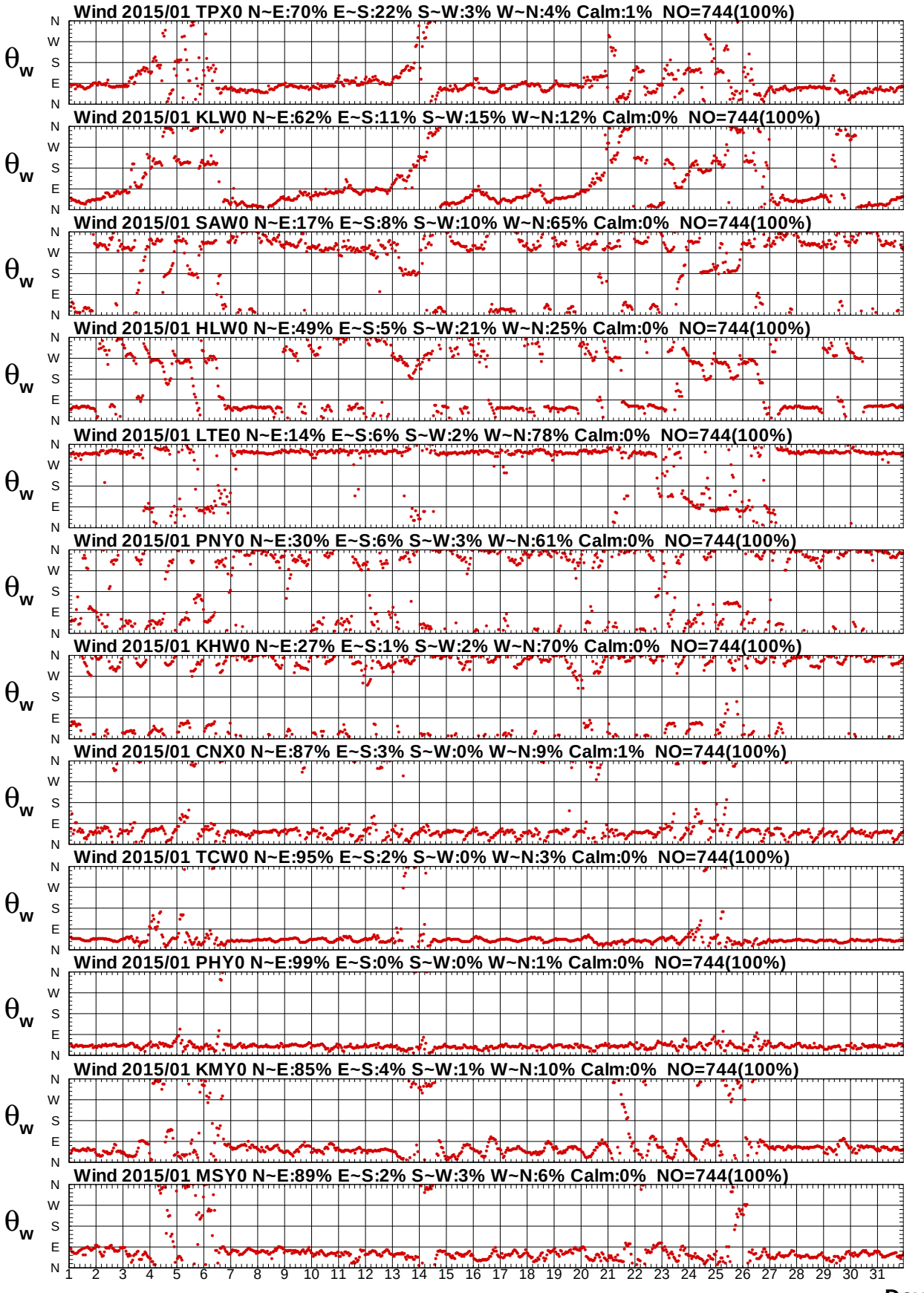

圖 13.4　2015年 1 月 12海域主要測站觀測風向歷線圖

W151TPX0.1HA W151KLW0.1HA W151SAW0.1HA W151HLW0.1HA W151LTE0.1HA W151PNY0.1HA
W151KHW0.1HA W151CNX0.1HA W151TCW0.1HA W151PHY0.1HA W151KMY0.1HA W151MSY0.1HA

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Twelve Seas Wind Speed at 2015/02

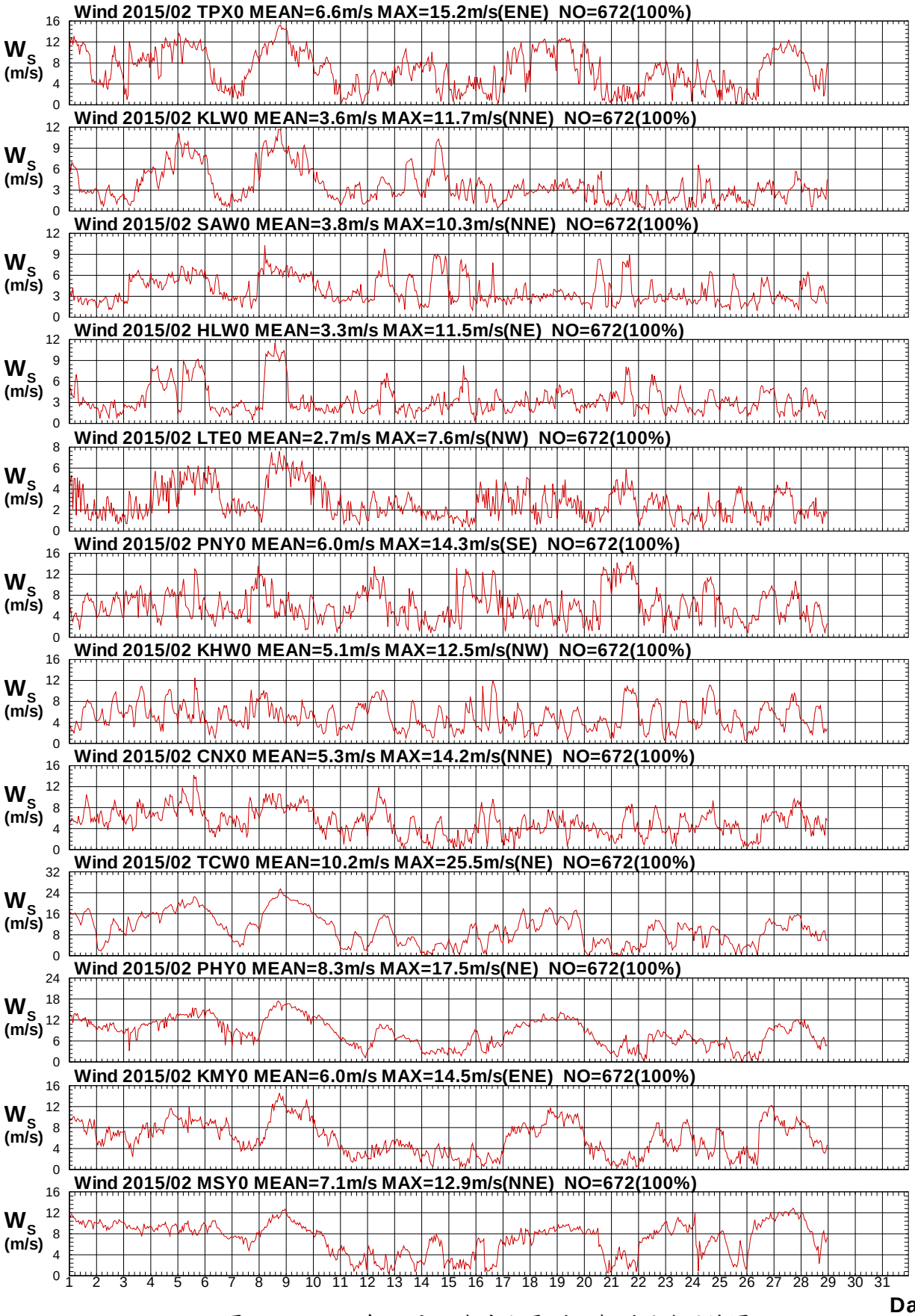

圖 13.5　2015年 2月12海域主要測站觀測風速歷線圖

W152TPX0.1HA W152KLW0.1HA W152SAW0.1HA W152HLW0.1HA W152LTE0.1HA W152PNY0.1HA
W152KHW0.1HA W152CNX0.1HA W152TCW0.1HA W152PHY0.1HA W152KMY0.1HA W152MSY0.1HA

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Twelve Seas Wind Direction at 2015/02

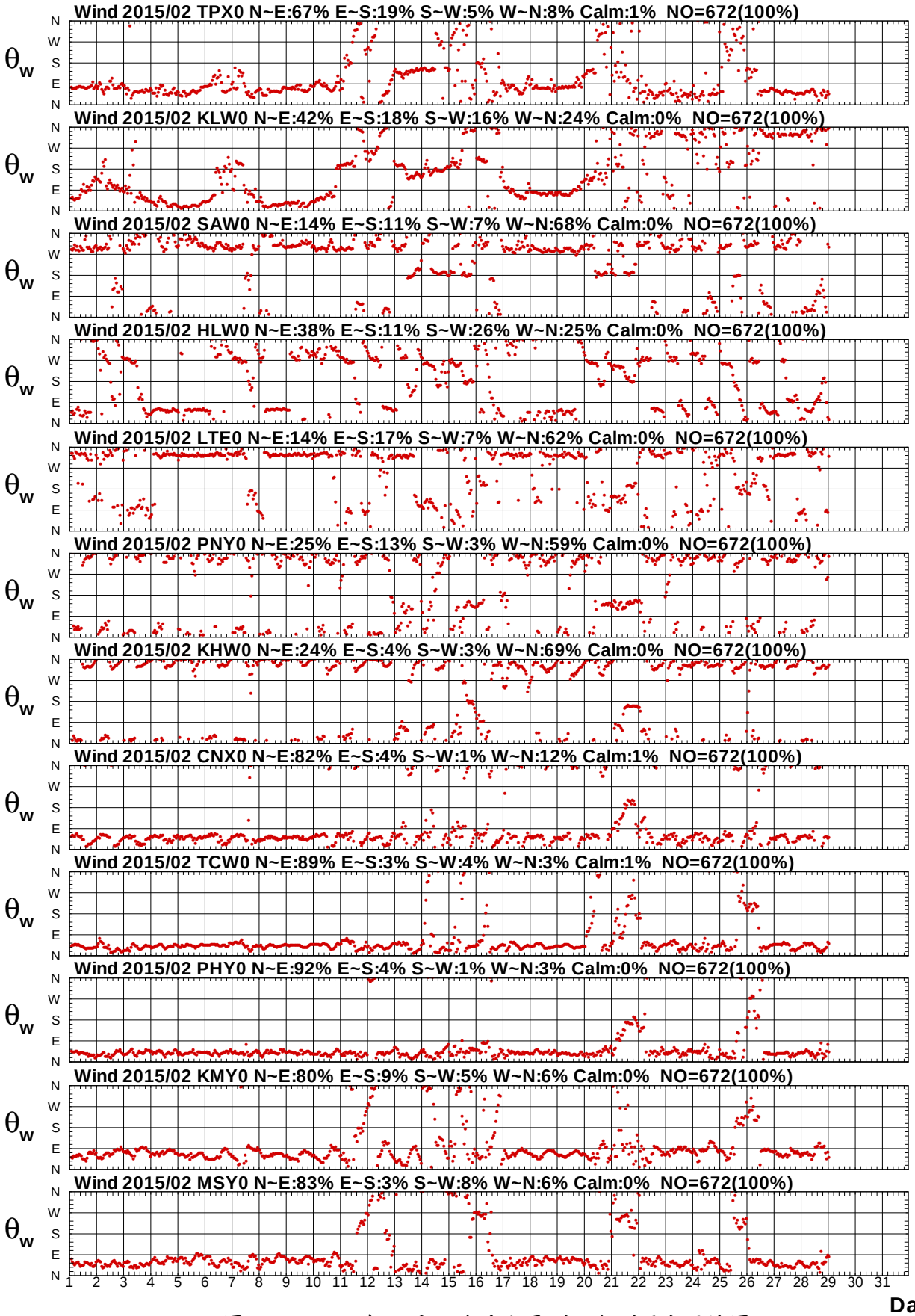

圖 13.6　2015年 2月12海域主要測站觀測風向歷線圖

W152TPX0.1HA W152KLW0.1HA W152SAW0.1HA W152HLW0.1HA W152LTE0.1HA W152PNY0.1HA
W152KHW0.1HA W152CNX0.1HA W152TCW0.1HA W152PHY0.1HA W152KMY0.1HA W152MSY0.1HA

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Twelve Seas Wind Speed at 2015/03

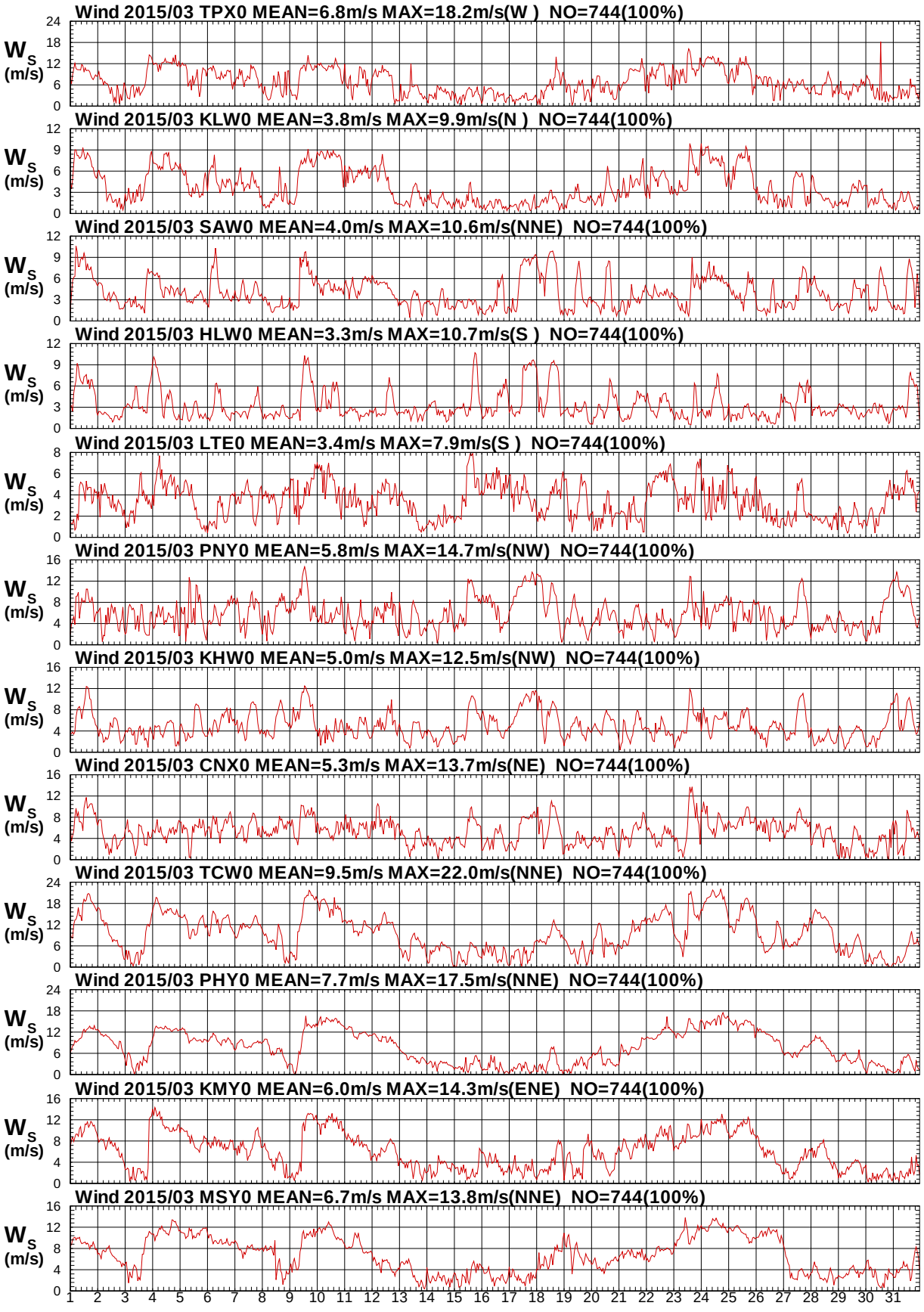

圖 13.7　2015年 3 月 12海域主要測站觀測風速歷線圖

W153TPX0.1HA W153KLW0.1HA W153SAW0.1HA W153HLW0.1HA W153LTE0.1HA W153PNY0.1HA
W153KHW0.1HA W153CNX0.1HA W153TCW0.1HA W153PHY0.1HA W153KMY0.1HA W153MSY0.1HA

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Twelve Seas Wind Direction at 2015/03

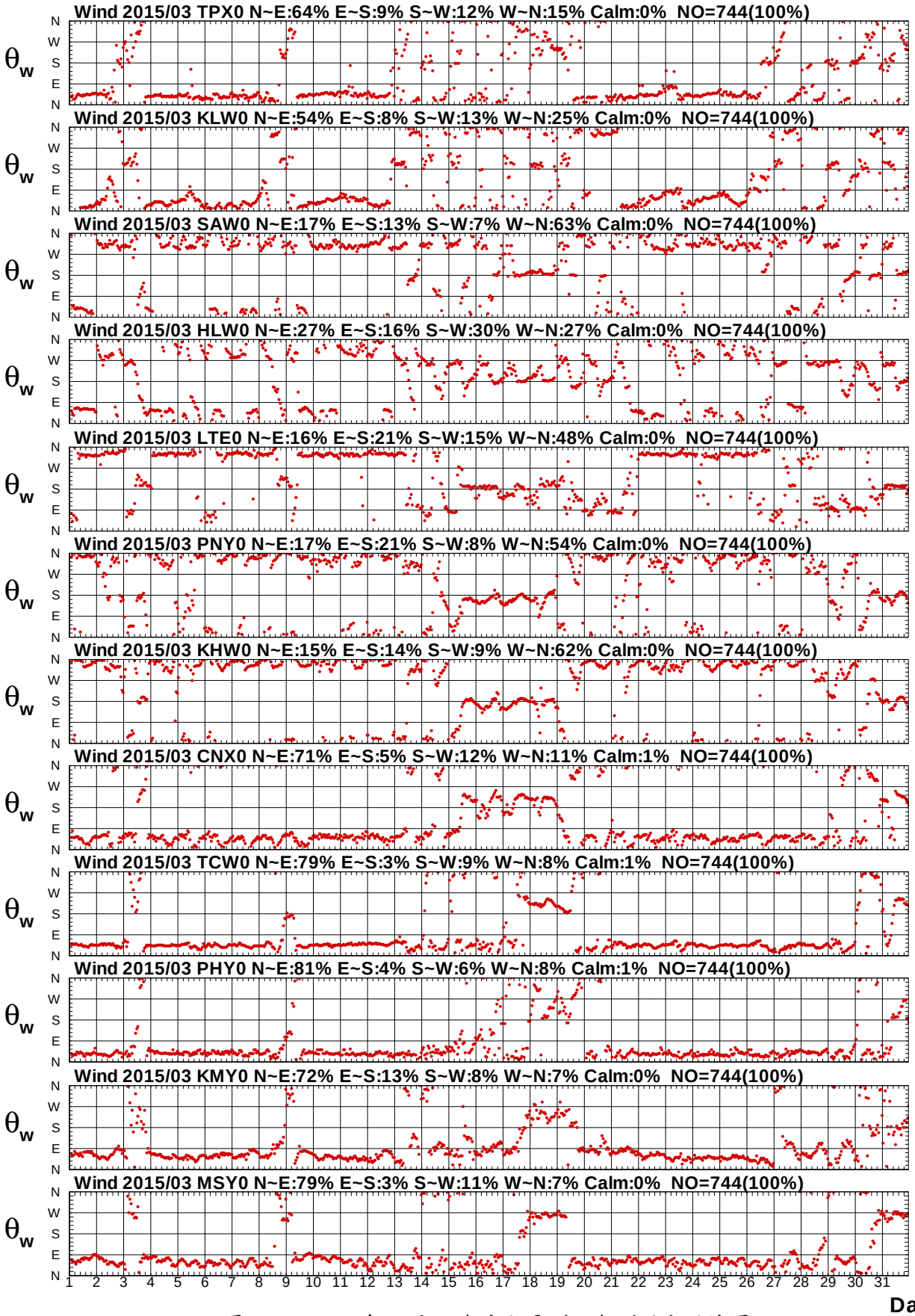

圖 13.8　2015年 3 月 12海域主要測站觀測風向歷線圖

W153TPX0.1HA W153KLW0.1HA W153SAW0.1HA W153HLW0.1HA W153LTE0.1HA W153PNY0.1HA
W153KHW0.1HA W153CNX0.1HA W153TCW0.1HA W153PHY0.1HA W153KMY0.1HA W153MSY0.1HA

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Twelve Seas Wind Speed at 2015/04

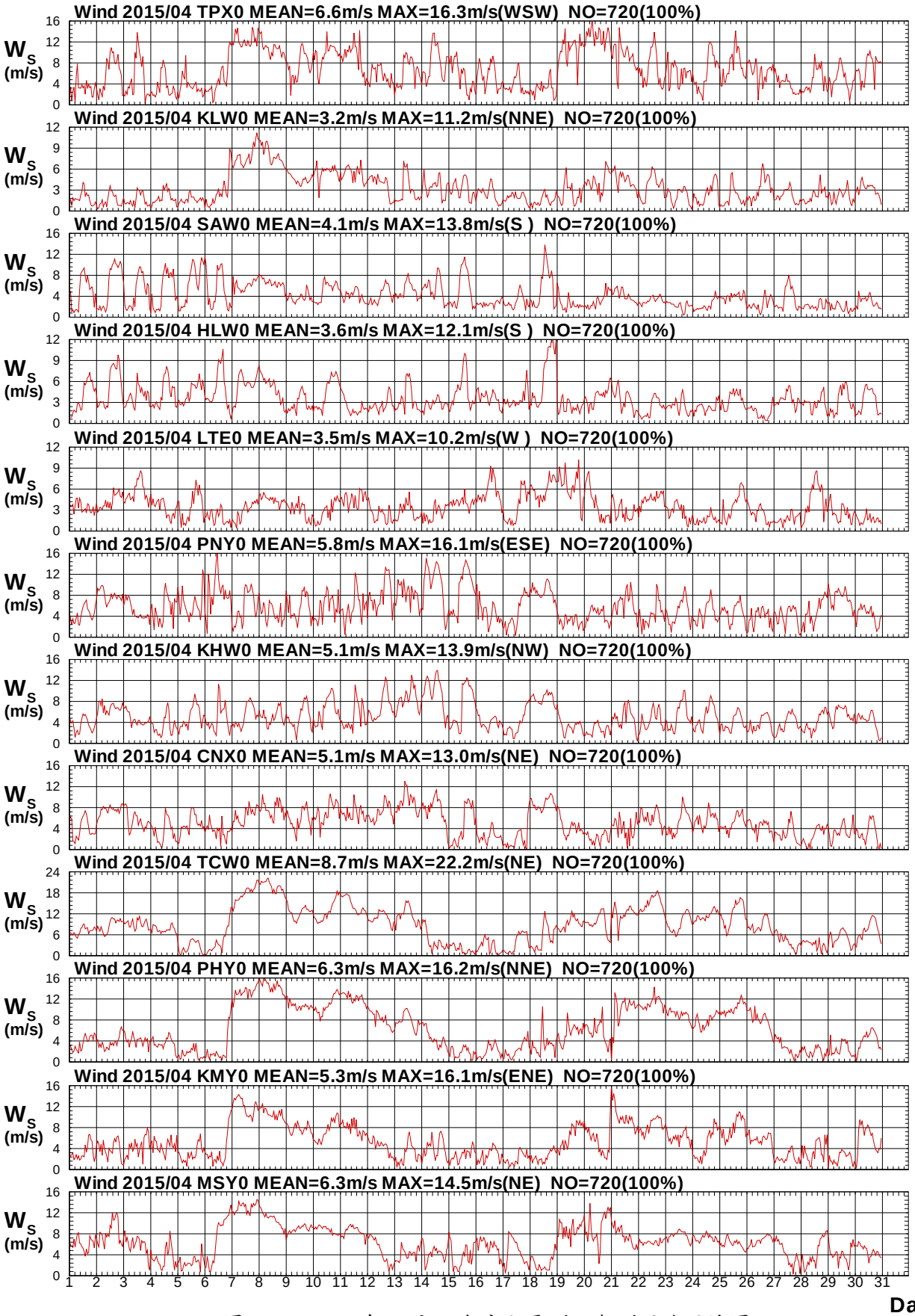

圖 13.9　2015年 4 月 12海域主要測站觀測風速歷線圖

W154TPX0.1HA W154KLW0.1HA W154SAW0.1HA W154HLW0.1HA W154LTE0.1HA W154PNY0.1HA
W154KHW0.1HA W154CNX0.1HA W154TCW0.1HA W154PHY0.1HA W154KMY0.1HA W154MSY0.1HA

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Twelve Seas Wind Direction at 2015/04

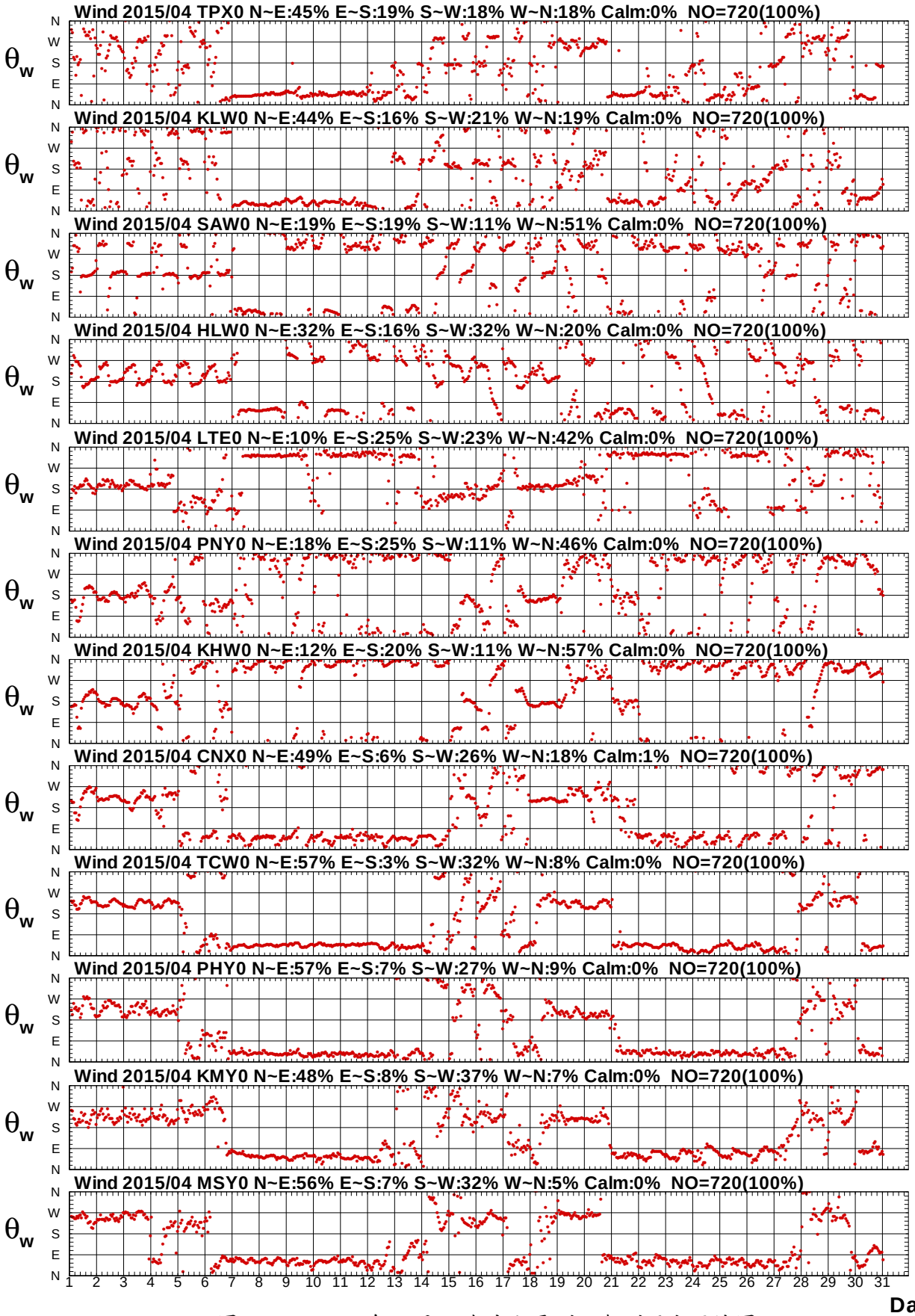

圖13.10　2015年 4月12海域主要測站觀測風向歷線圖

W154TPX0.1HA W154KLW0.1HA W154SAW0.1HA W154HLW0.1HA W154LTE0.1HA W154PNY0.1HA
W154KHW0.1HA W154CNX0.1HA W154TCW0.1HA W154PHY0.1HA W154KMY0.1HA W154MSY0.1HA

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Twelve Seas Wind Speed at 2015/05

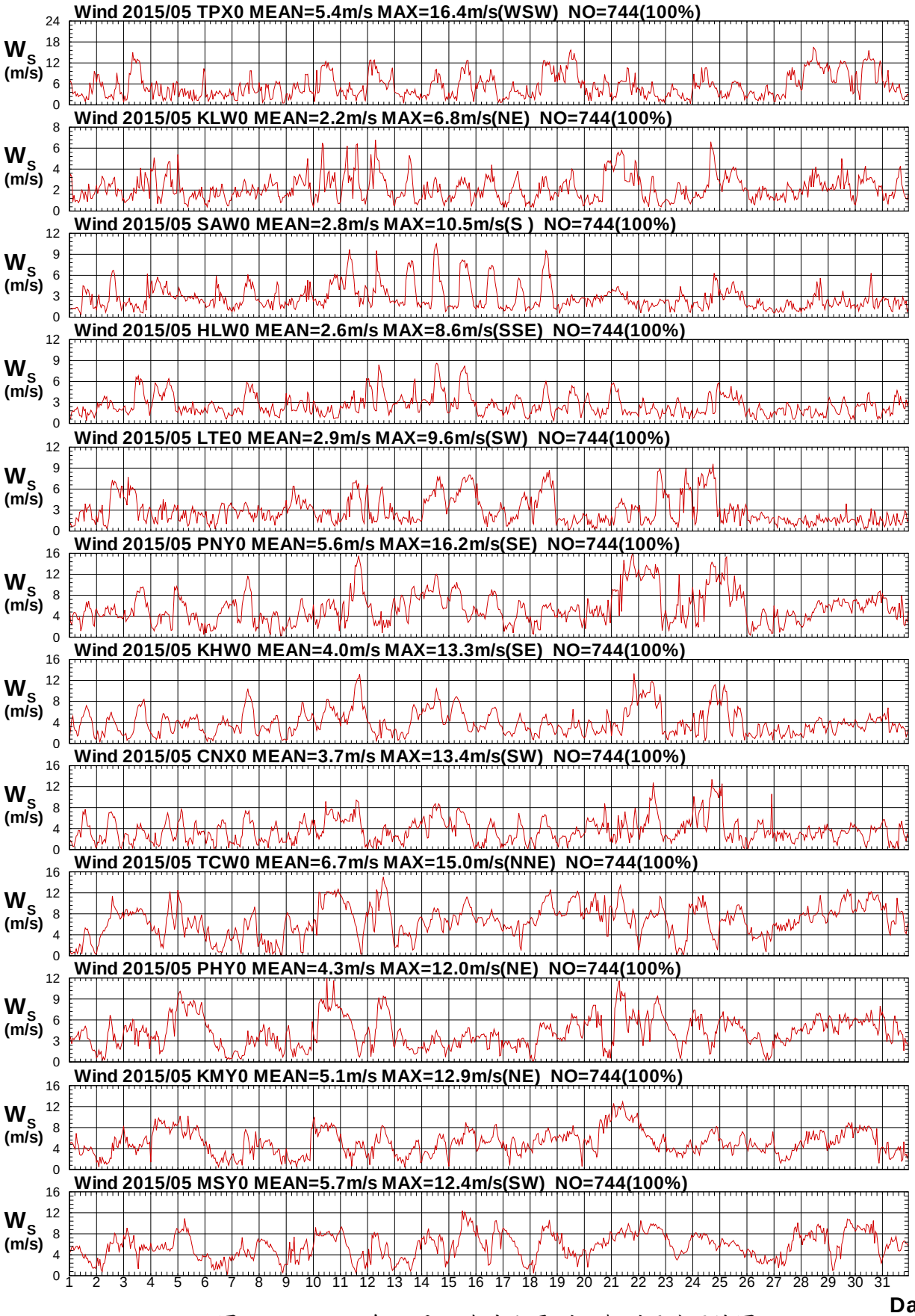

圖 13.11　2015年 5 月 12 海域主要測站觀測風速歷線圖

W155TPX0.1HA W155KLW0.1HA W155SAW0.1HA W155HLW0.1HA W155LTE0.1HA W155PNY0.1HA
W155KHW0.1HA W155CNX0.1HA W155TCW0.1HA W155PHY0.1HA W155KMY0.1HA W155MSY0.1HA

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Twelve Seas Wind Direction at 2015/05

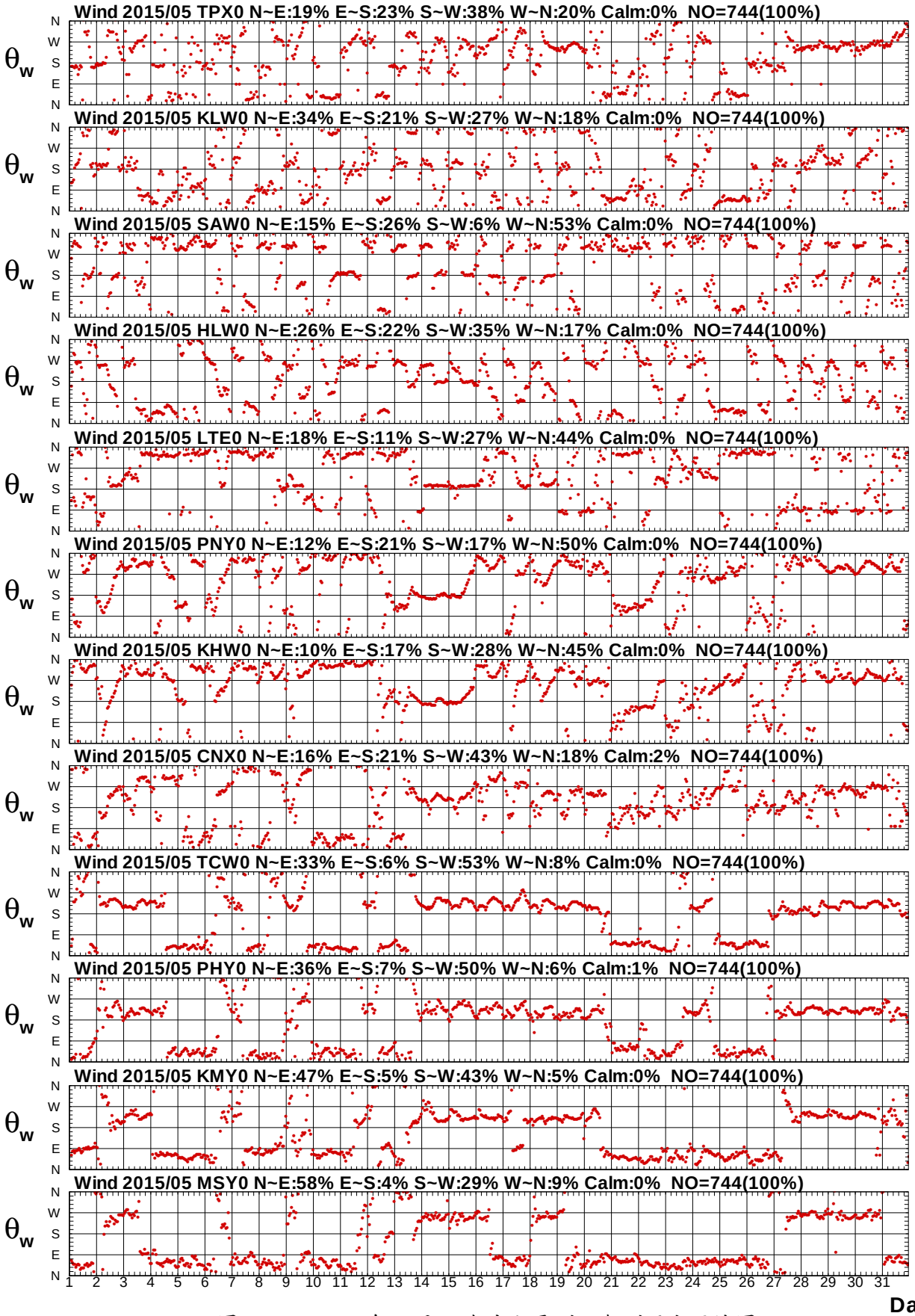

圖 13.12　2015年 5 月 12 海域主要測站觀測風向歷線圖

W155TPX0.1HA W155KLW0.1HA W155SAW0.1HA W155HLW0.1HA W155LTE0.1HA W155PNY0.1HA
W155KHW0.1HA W155CNX0.1HA W155TCW0.1HA W155PHY0.1HA W155KMY0.1HA W155MSY0.1HA

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Twelve Seas Wind Speed at 2015/06

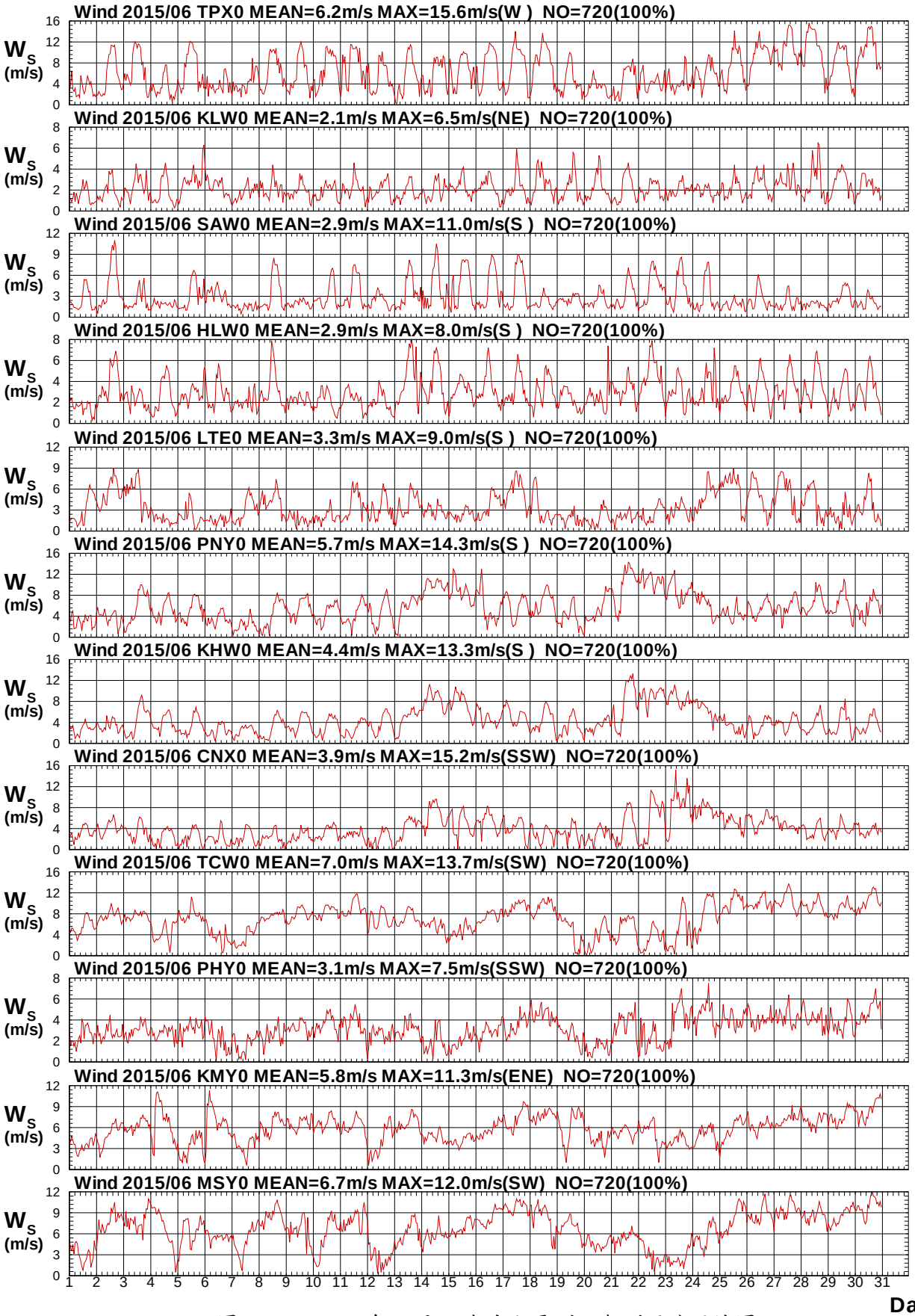

圖 13.13　2015年 6 月 12 海域主要測站觀測風速歷線圖

W156TPX0.1HA W156KLW0.1HA W156SAW0.1HA W156HLW0.1HA W156LTE0.1HA W156PNY0.1HA
W156KHW0.1HA W156CNX0.1HA W156TCW0.1HA W156PHY0.1HA W156KMY0.1HA W156MSY0.1HA

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Twelve Seas Wind Direction at 2015/06

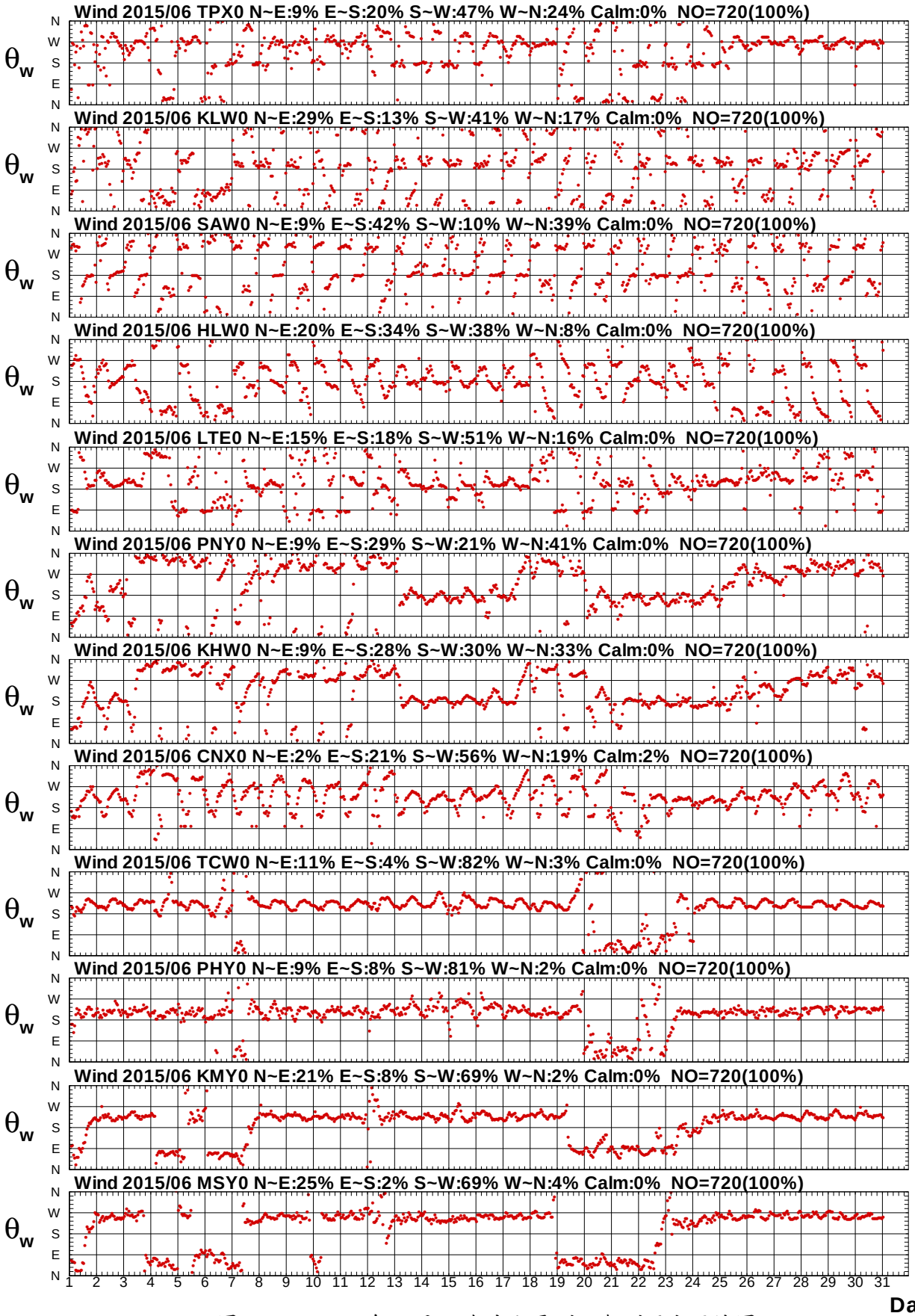

圖 13.14　2015年 6 月 12 海域主要測站觀測風向歷線圖

W156TPX0.1HA W156KLW0.1HA W156SAW0.1HA W156HLW0.1HA W156LTE0.1HA W156PNY0.1HA
W156KHW0.1HA W156CNX0.1HA W156TCW0.1HA W156PHY0.1HA W156KMY0.1HA W156MSY0.1HA

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Twelve Seas Wind Speed at 2015/07

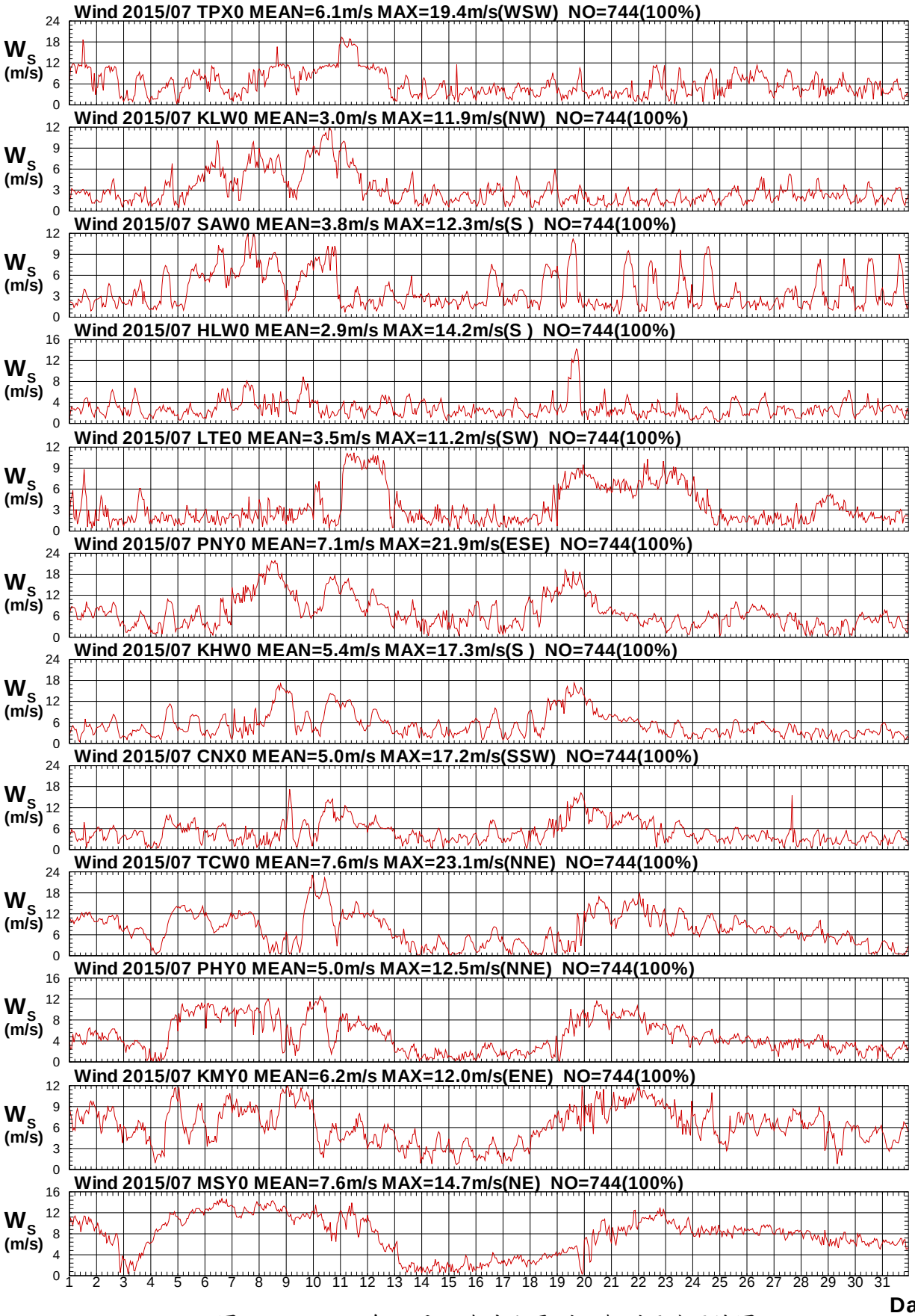

圖 13.15　2015年 7月12海域主要測站觀測風速歷線圖

W157TPX0.1HA W157KLW0.1HA W157SAW0.1HA W157HLW0.1HA W157LTE0.1HA W157PNY0.1HA
W157KHW0.1HA W157CNX0.1HA W157TCW0.1HA W157PHY0.1HA W157KMY0.1HA W157MSY0.1HA

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Twelve Seas Wind Direction at 2015/07

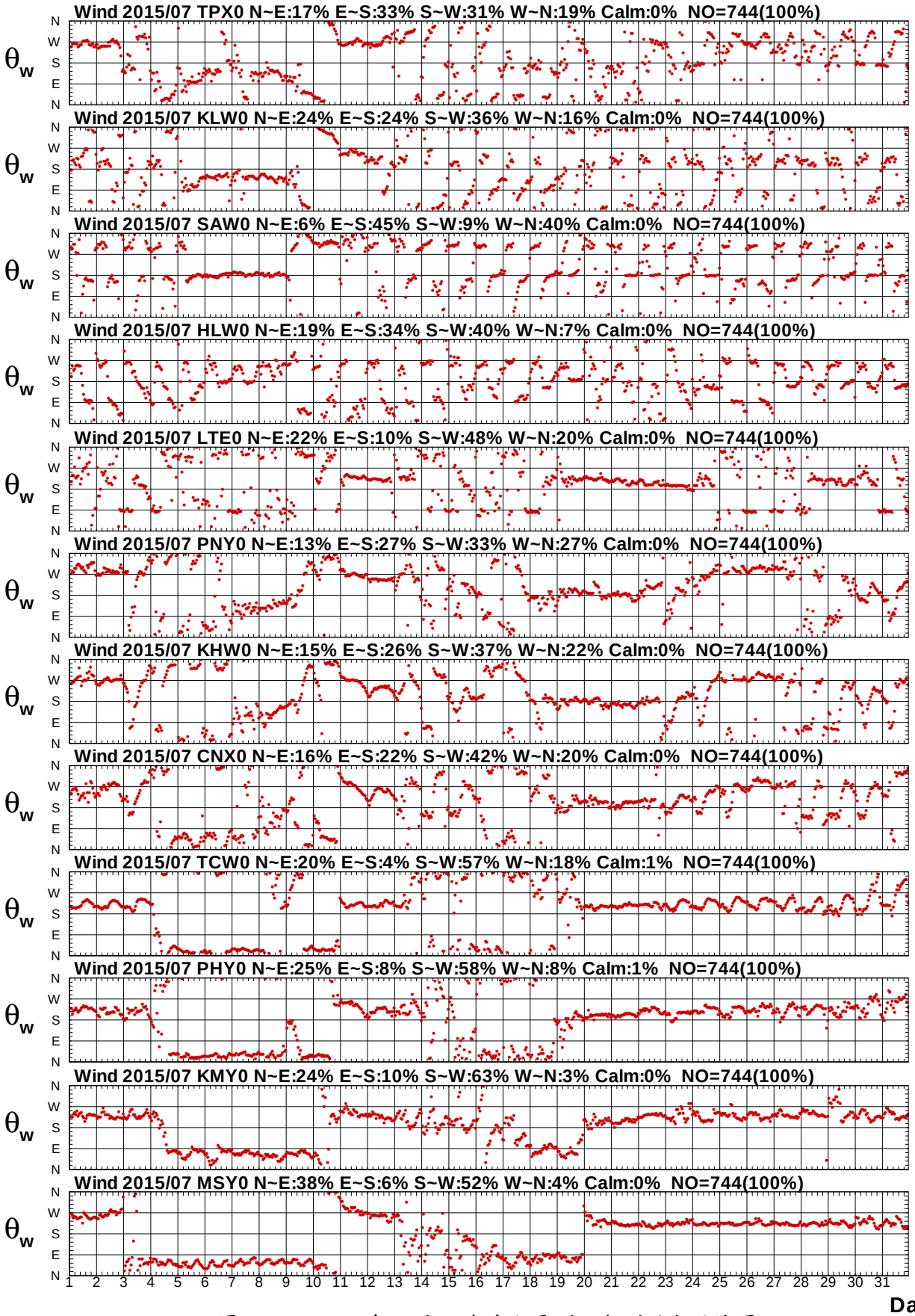

圖 13.16　2015年 7月12海域主要測站觀測風向歷線圖

W157TPX0.1HA W157KLW0.1HA W157SAW0.1HA W157HLW0.1HA W157LTE0.1HA W157PNY0.1HA
W157KHW0.1HA W157CNX0.1HA W157TCW0.1HA W157PHY0.1HA W157KMY0.1HA W157MSY0.1HA

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Twelve Seas Wind Speed at 2015/08

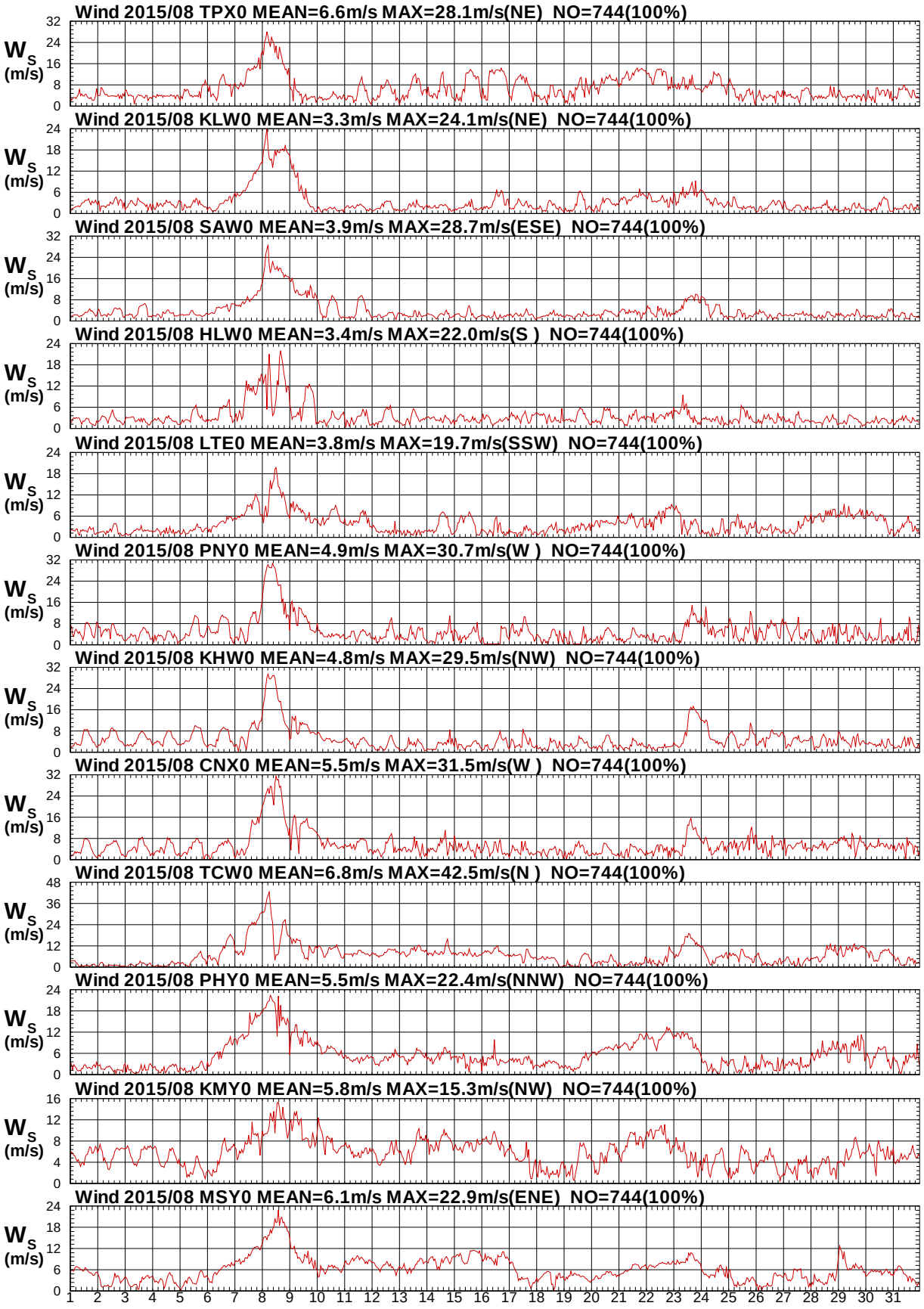

圖 13.17　2015年 8 月 12 海域主要測站觀測風速歷線圖

W158TPX0.1HA W158KLW0.1HA W158SAW0.1HA W158HLW0.1HA W158LTE0.1HA W158PNY0.1HA
W158KHW0.1HA W158CNX0.1HA W158TCW0.1HA W158PHY0.1HA W158KMY0.1HA W158MSY0.1HA

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Twelve Seas Wind Direction at 2015/08

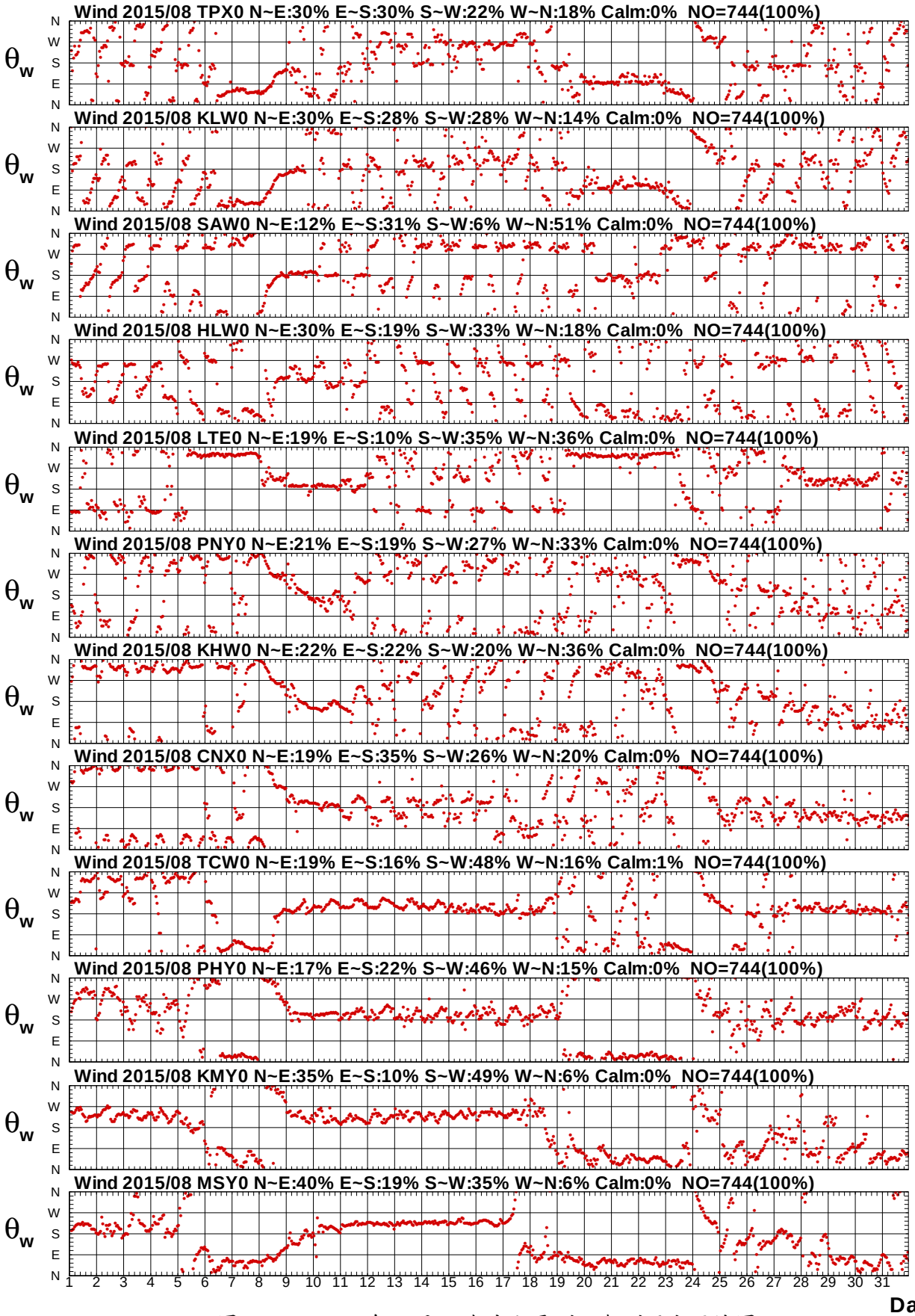

圖 13.18　2015年 8 月 12 海域主要測站觀測風向歷線圖

W158TPX0.1HA W158KLW0.1HA W158SAW0.1HA W158HLW0.1HA W158LTE0.1HA W158PNY0.1HA
W158KHW0.1HA W158CNX0.1HA W158TCW0.1HA W158PHY0.1HA W158KMY0.1HA W158MSY0.1HA

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Twelve Seas Wind Speed at 2015/09

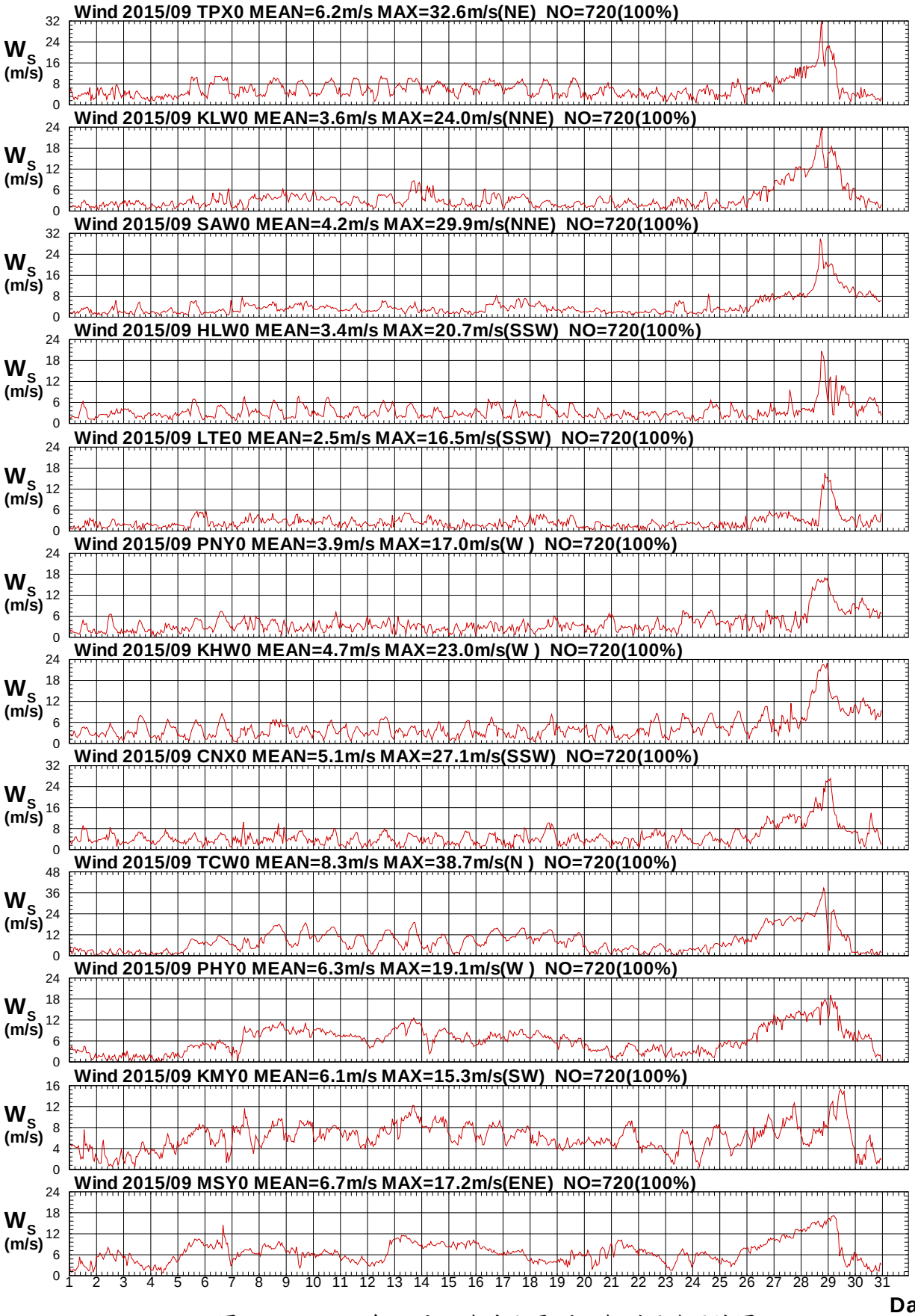

圖 13.19　2015年 9 月 12 海域主要測站觀測風速歷線圖

W159TPX0.1HA W159KLW0.1HA W159SAW0.1HA W159HLW0.1HA W159LTE0.1HA W159PNY0.1HA
W159KHW0.1HA W159CNX0.1HA W159TCW0.1HA W159PHY0.1HA W159KMY0.1HA W159MSY0.1HA

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Twelve Seas Wind Direction at 2015/09

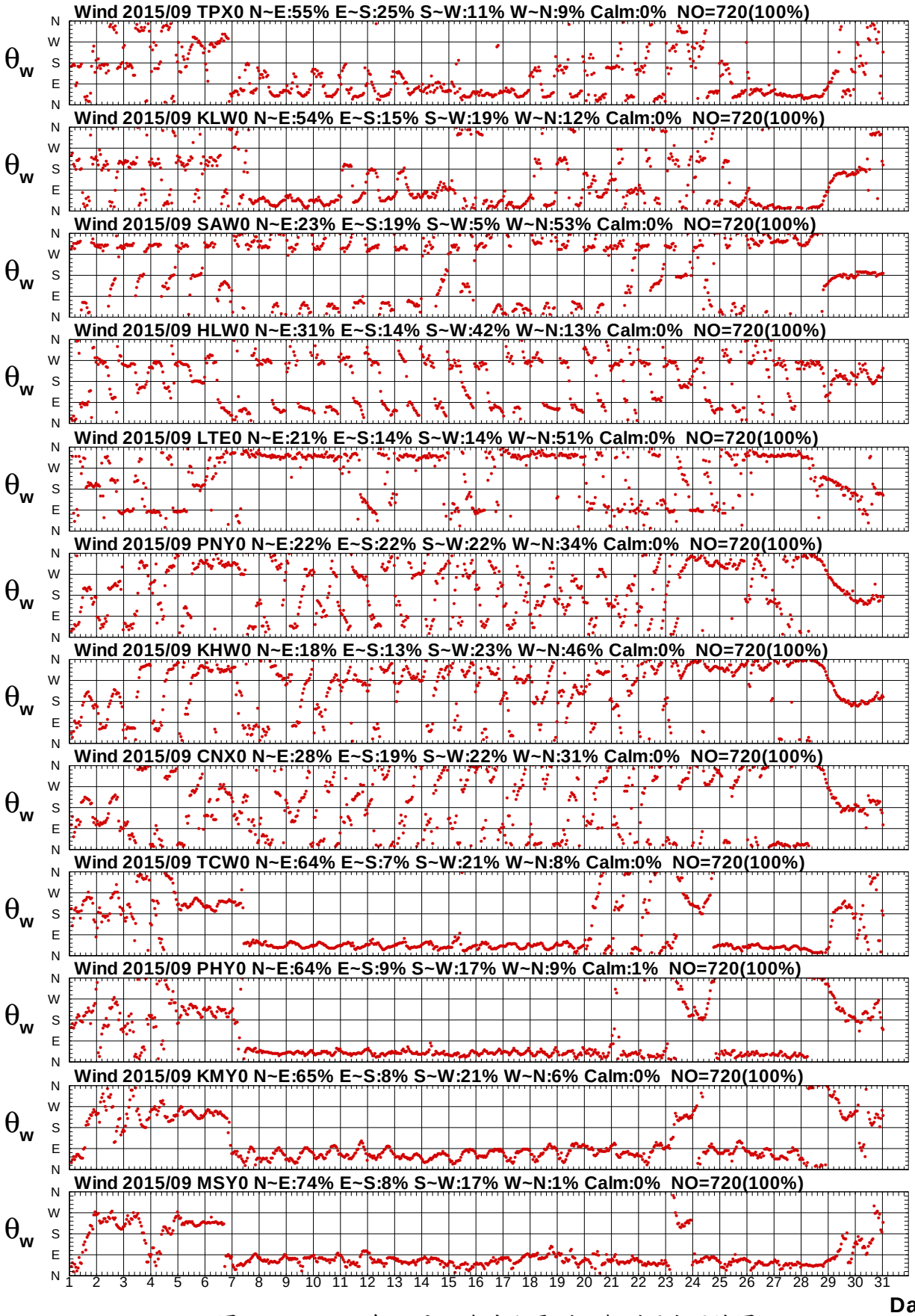

圖13.20　2015年 9月12海域主要測站觀測風向歷線圖

W159TPX0.1HA W159KLW0.1HA W159SAW0.1HA W159HLW0.1HA W159LTE0.1HA W159PNY0.1HA
W159KHW0.1HA W159CNX0.1HA W159TCW0.1HA W159PHY0.1HA W159KMY0.1HA W159MSY0.1HA

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Twelve Seas Wind Speed at 2015/10

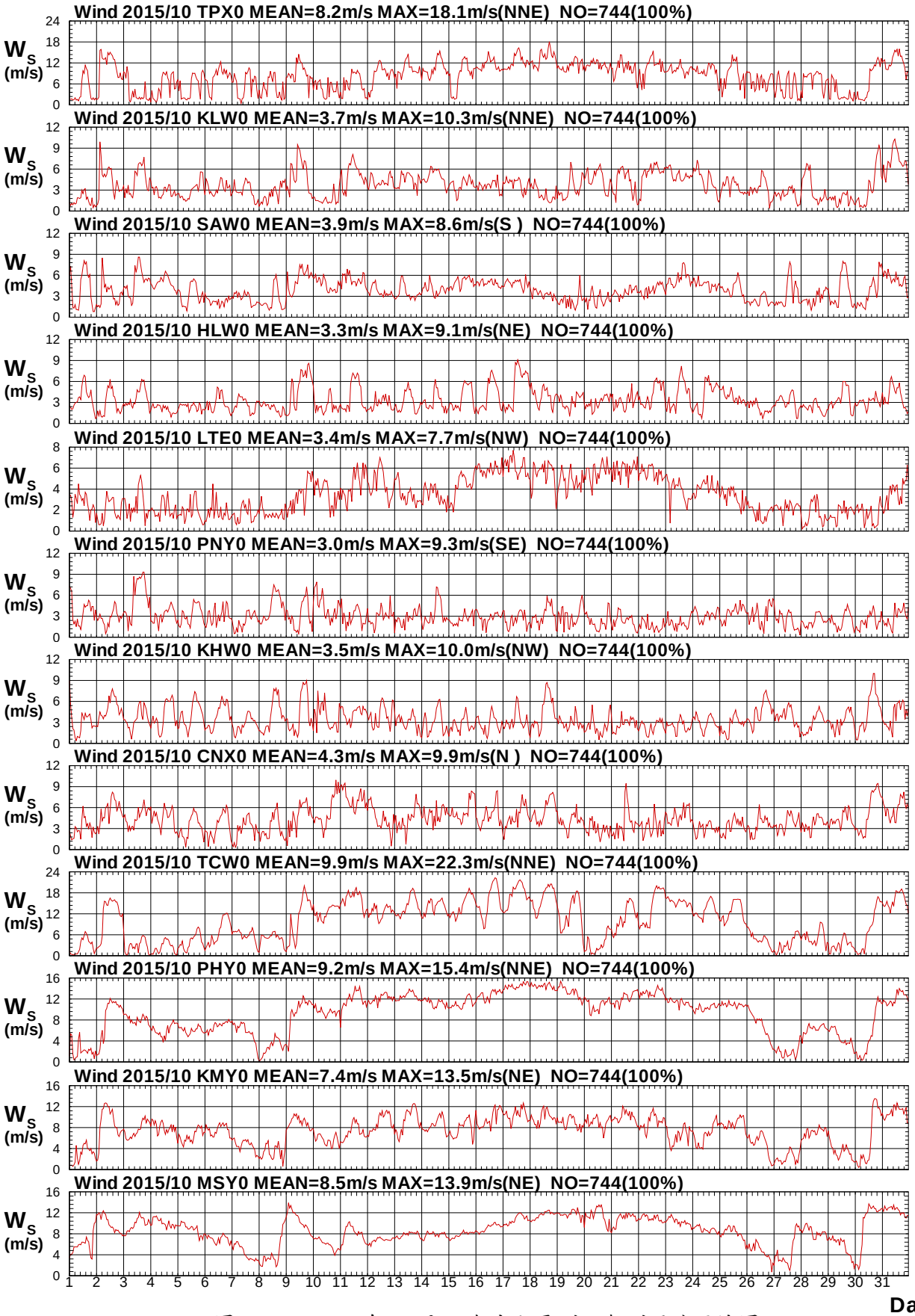

圖 13.21　2015年10月12海域主要測站觀測風速歷線圖

W15ATPX0.1HA W15AKLW0.1HA W15ASAW0.1HA W15AHLW0.1HA W15ALTE0.1HA W15APNY0.1HA
W15AKHW0.1HA W15ACNX0.1HA W15ATCW0.1HA W15APHY0.1HA W15AKMY0.1HA W15AMSY0.1HA

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Twelve Seas Wind Direction at 2015/10

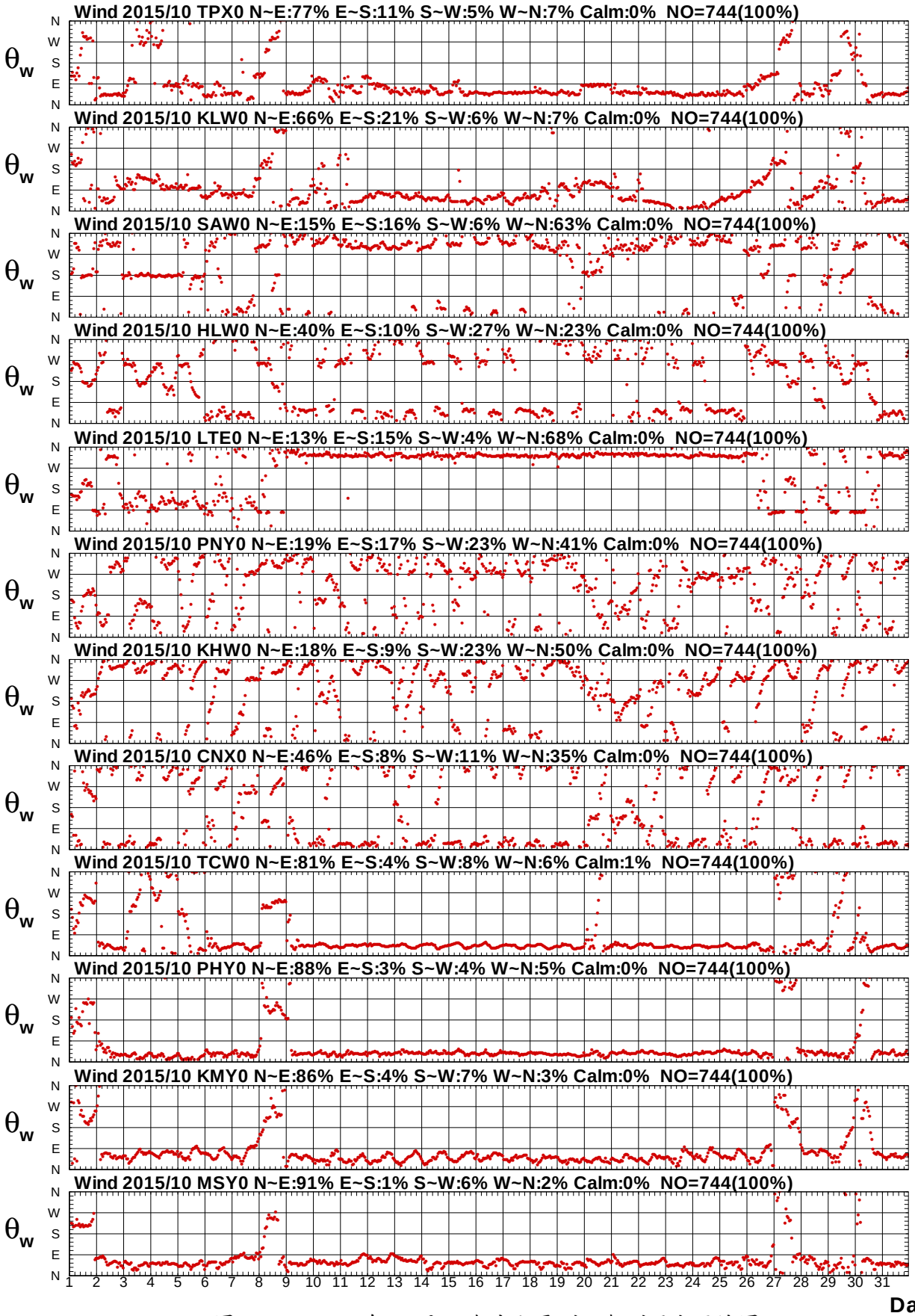

圖 13.22　2015年10月12海域主要測站觀測風向歷線圖

W15ATPX0.1HA W15AKLW0.1HA W15ASAW0.1HA W15AHLW0.1HA W15ALTE0.1HA W15APNY0.1HA
W15AKHW0.1HA W15ACNX0.1HA W15ATCW0.1HA W15APHY0.1HA W15AKMY0.1HA W15AMSY0.1HA

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Twelve Seas Wind Speed at 2015/11

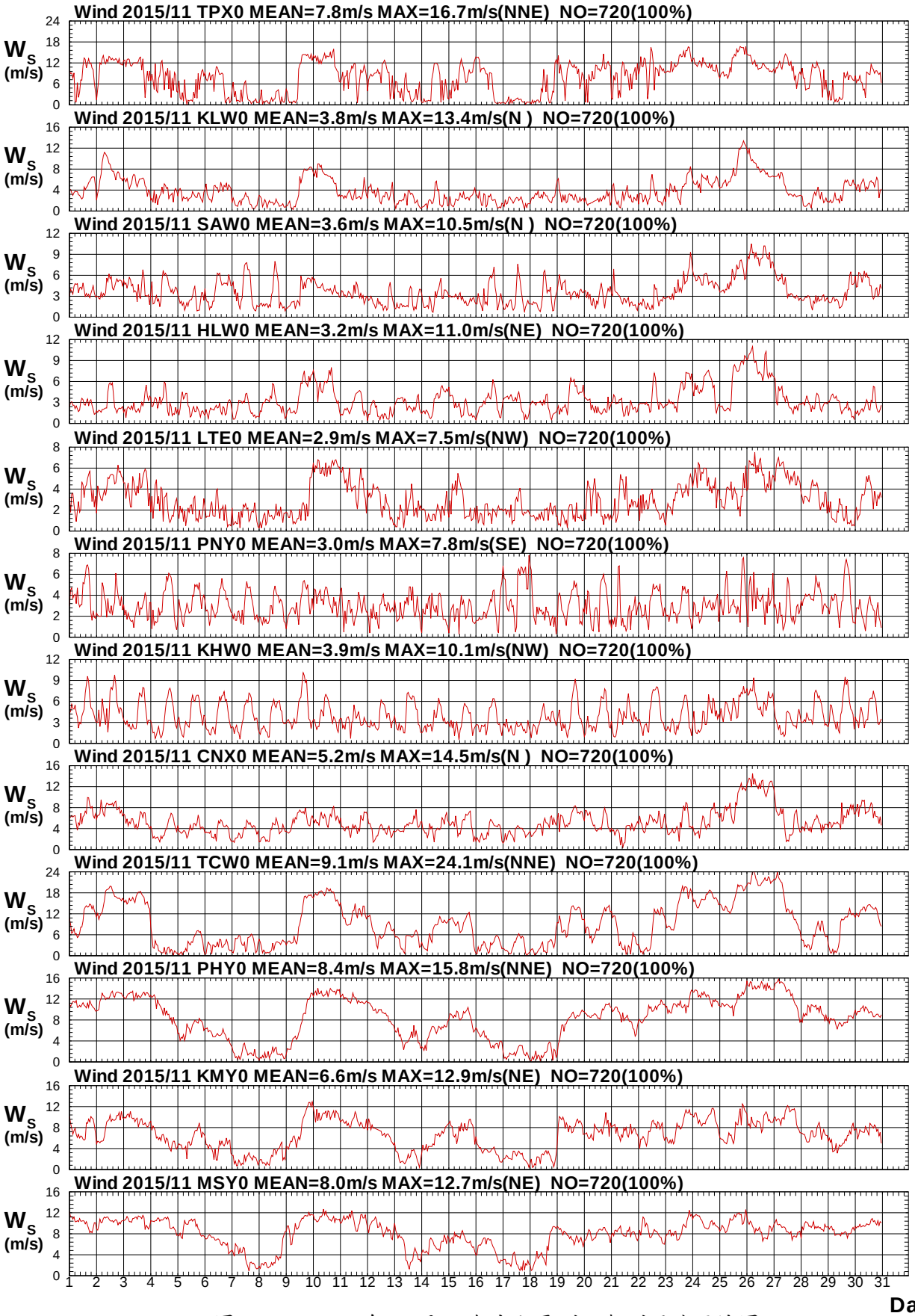

圖 13.23　2015年11月12海域主要測站觀測風速歷線圖

W15BTPX0.1HA W15BKLW0.1HA W15BSAW0.1HA W15BHLW0.1HA W15BLTE0.1HA W15BPNY0.1HA
W15BKHW0.1HA W15BCNX0.1HA W15BTCW0.1HA W15BPHY0.1HA W15BKMY0.1HA W15BMSY0.1HA

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Twelve Seas Wind Direction at 2015/11

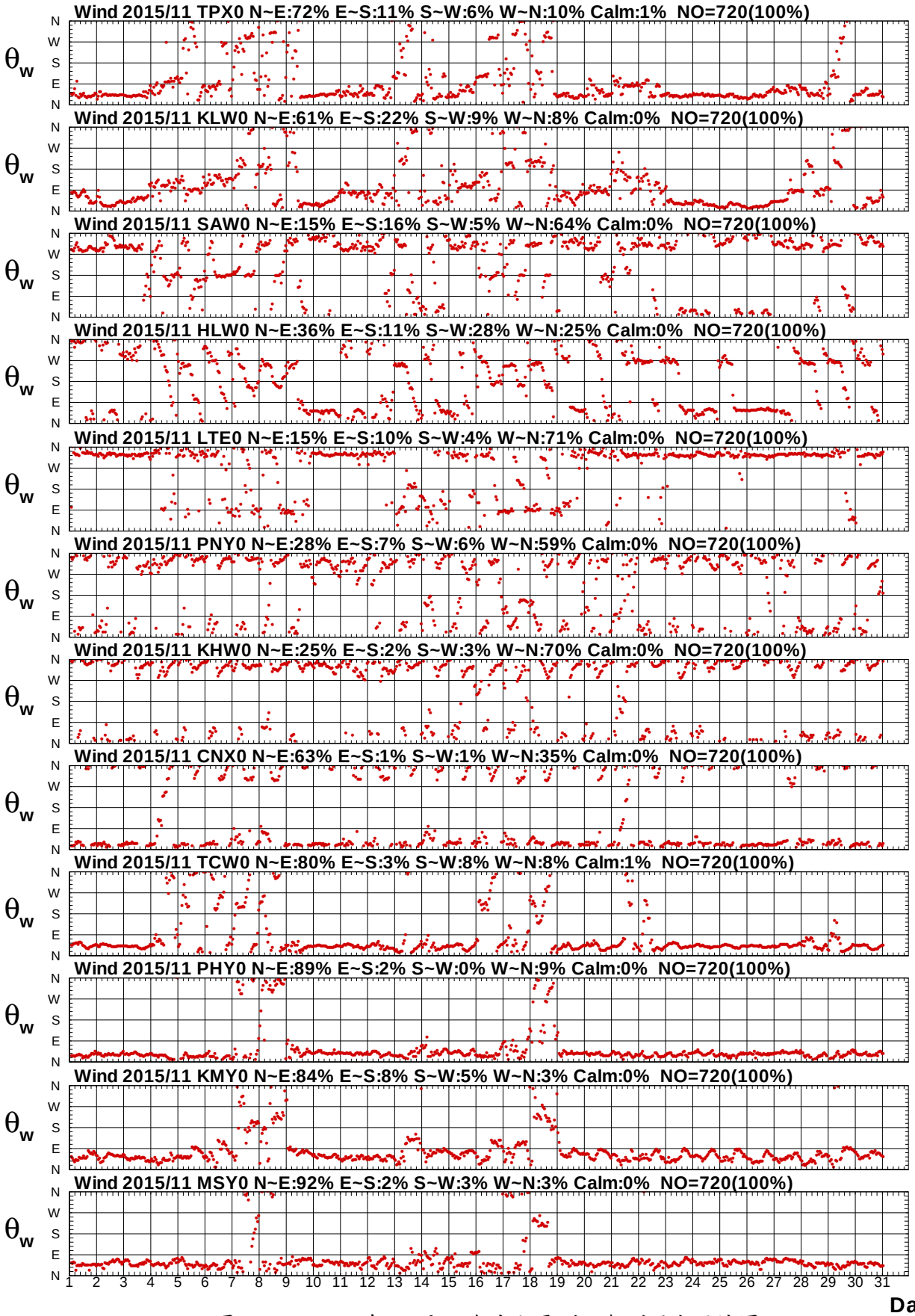

圖 13.24　2015年11月12海域主要測站觀測風向歷線圖

W15BTPX0.1HA W15BKLW0.1HA W15BSAW0.1HA W15BHLW0.1HA W15BLTE0.1HA W15BPNY0.1HA
W15BKHW0.1HA W15BCNX0.1HA W15BTCW0.1HA W15BPHY0.1HA W15BKMY0.1HA W15BMSY0.1HA

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