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2018 年港灣環境資訊網  
海氣象觀測資料年報  
(北苗海域風浪潮流觀測資料)



交通部運輸研究所

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摘要： 本港灣環境資訊網觀測海氣象資料年報，包括北苗海域2018年觀測風力、波浪、潮汐及海流等資料之觀測記錄表及逐時資料歷線圖。			
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# 2018年港灣環境資訊網海氣象觀測資料年報 (北苗海域風浪潮流觀測資料)

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## 誌 謝

2018 年港灣環境資訊網觀測風力資料，蒐集之北苗海域風力資料，除本中心自行觀測之外，在淡水氣象站(測站 E)、新竹氣象站(測站 P 及測站 I)、外埔氣象站(測站 Q)、新屋氣象站(測站 H)、新竹海上浮標(測站 Y)等，係交通部 中央氣象局(CWB)提供，謹致謝忱。

2018 年港灣環境資訊網觀測波浪資料，蒐集之北苗海域波浪資料，除本中心自行觀測之外，在新竹海上浮標(測站 Y)觀測波浪資料，係交通部 中央氣象局(CWB)提供，謹致謝忱。

2018 年港灣海氣象觀測潮汐資料，蒐集之北苗海域潮汐觀測資料，除本中心自行觀測之外，在台北港(測站 J)、淡水漁人碼頭(測站 M 及測站 O)、竹圍(測站 K)、新竹(測站 P)、外埔(測站 Q)等觀測潮汐資料，係交通部 中央氣象局 提供。淡水河口(測站 F)觀測潮汐資料，係經濟部 水利署 提供，謹致謝忱。



## 第 0 章 北苗海域觀測風浪潮流資料蒐集

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

北苗海域觀測風力資料測站統計表如表 WP1，觀測波浪資料測站統計表如表 VP1，觀測潮汐資料測站統計表如表 TP1，觀測海流資料測站統計表如表 CP1。

表 WP1 北苗海域觀測風力資料測站統計表

海域名稱	測站總數	IHMT 測站	CWB 測站	WRA 測站	其他 測站	備註
北苗海域	8	2	6			

表 VP1 北苗海域觀測波浪資料測站統計表

海域名稱	測站總數	IHMT 測站	CWB 測站	WRA 測站	其他 測站	備註
北苗海域	2	1	1	0	0	

表 TP1 北苗海域觀測潮汐資料測站統計表

海域名稱	測站總數	IHMT 測站	CWB 測站	WRA 測站	其他 測站	備註
北苗海域	10	3	6	1	0	

表 CP1 北苗海域觀測海流資料測站統計表

海域名稱	測站總數	IHMT 測站	CWB 測站	WRA 測站	其他 測站	備註
北苗海域	1	1	0	0	0	

註:資料更新時間為 2018 年。

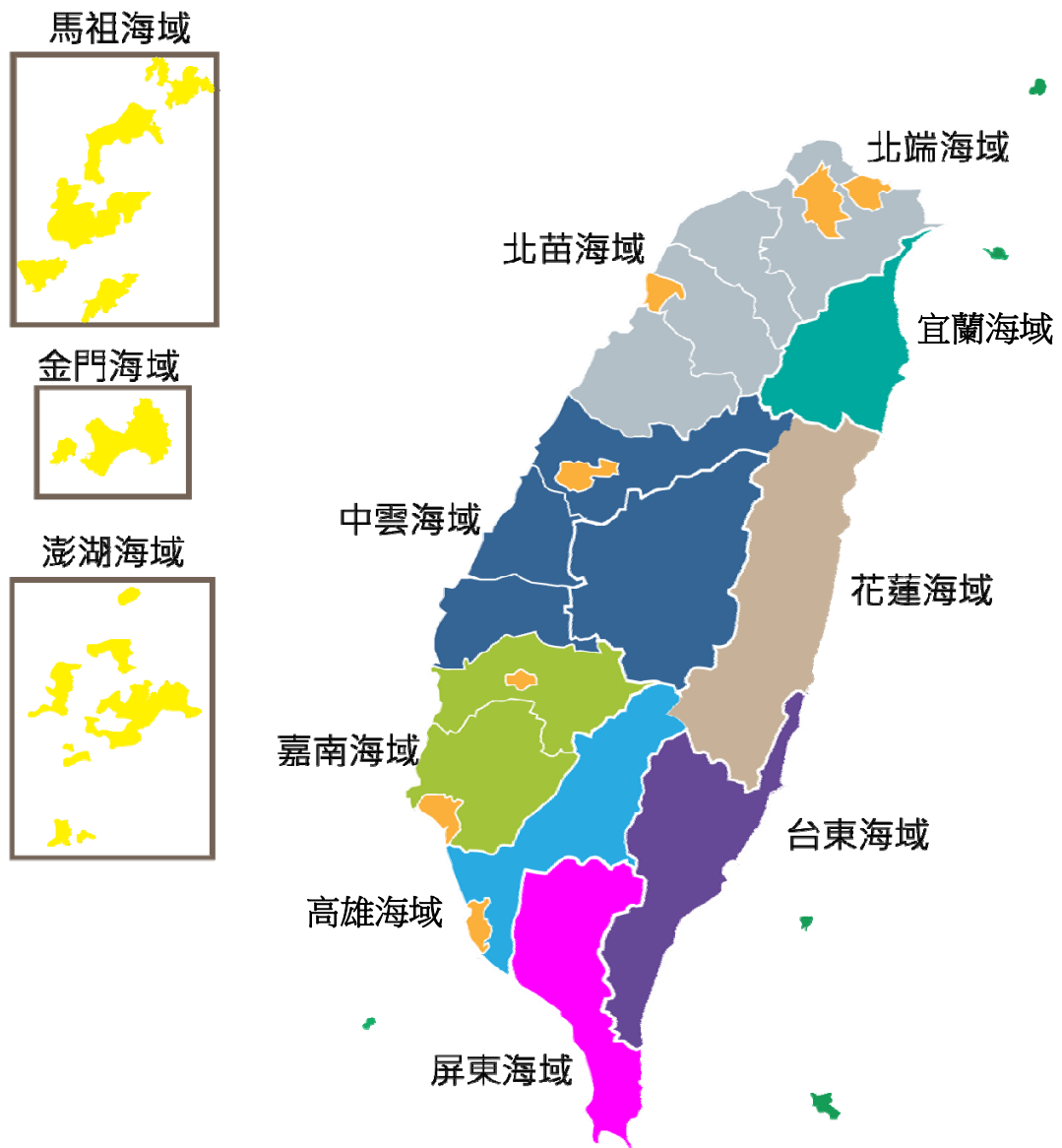


圖 A1 臺灣 12 海域區分示意圖

## 2018 年北苗海域觀測風力資料

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

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

**表 WP1 北苗海域觀測風力資料蒐集概況表(統計時間至 2018 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	2005/01-2018/11(觀測中)	港研中心	新觀測樁
W	25°09'24"N	121°22'19"E	2009/08-2018/11(觀測中)	港研中心	臺北港區
E	25°09'50"N	121°26'54"E	2004/01-2018/11(觀測中)	中央氣象局	淡水
Y	24°45'39"N	120°50'38"E	1997/06-2018/11(觀測中)	中央氣象局	新竹浮標站
P	24°51'01"N	120°54'44"E	2015/01-2018/11(觀測中)	中央氣象局	新竹
Q	24°39'05"N	120°46'18"E	2015/01-2018/11(觀測中)	中央氣象局	外埔
H	25°00'57"N	121°02'36"E	2014/08-2018/11(觀測中)	中央氣象局	新屋
I	24°49'48"N	121°00'22"E	2013/11-2018/11(觀測中)	中央氣象局	新竹

# 北苗海域

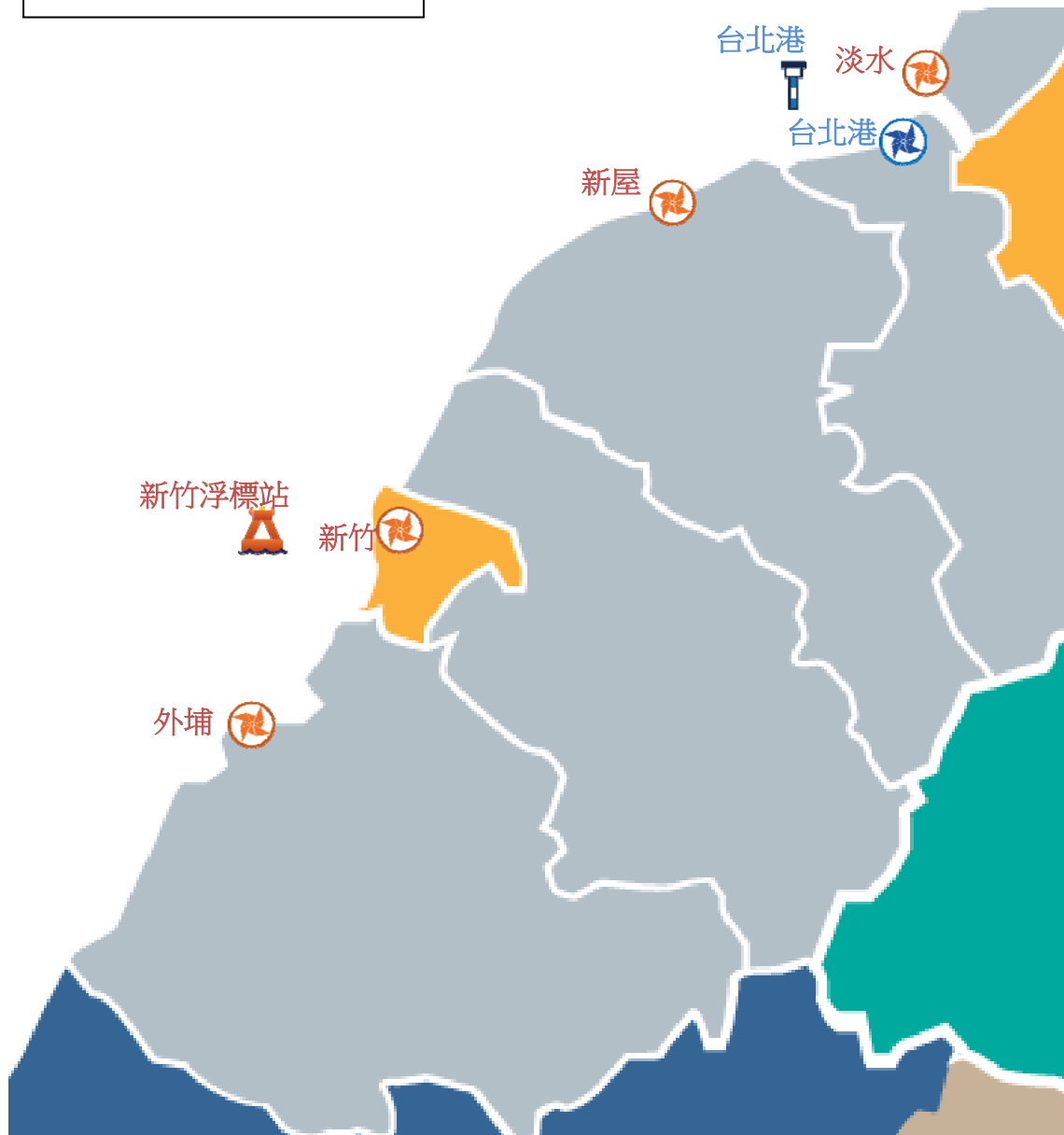


圖 WP1 北苗海域風力觀測站位置示意圖

## 2018 年北苗海域觀測波浪資料

北苗海域(新北~苗栗)波浪之觀測較早本中心(IHMT)於臺北港外海觀測樁(測站 X0)水下 5 米處安裝 Inter Ocean S-4ADW 潮波儀所測得之 2Hz 水位變化時間序列處理而得，期間為 1996 年 10 月至 2004 年 9 月，舊觀測樁測站位置如附圖 VP1，2004 年 12 月以後更換之新觀測樁測，稱測站 X1，因 S-4 觀測儀器老舊，另更換為 NORTEK 公司之剖面海流表面波浪與潮汐之監測系統(AWCP)。

測站 Y(新竹外海浮標站)之波浪儀屬中央氣象局(CWB)所有，波浪資料由中央氣象局提供。各測站歷年觀測波浪資料蒐集概況如表 VP1。

波浪觀測 AWCP 系統有兩個分離波高量測模式：一個是對平靜波浪時，當資料由傳統式壓力感應器量測時將會因儀器佈放的深度而受很大的影響。此時，表面高度必須用一個聲波式的高度感應器量測波高。AWCP 波向量測範圍：波向的量測從海面下 3 米以上的流向資料與波高資料計算轉換而得。對攪動的海況來說；用於轉換波向的該層深度應該自動被調整為平均水位也就是  $H_{max}/2$ 。量測的參數為：平均波向及波向分佈，波向單位為度。

表 VP1 北苗海域觀測波浪資料蒐集概況表(統計時間至 2018 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	1996/10-2004/09	港研中心	台北港舊觀測樁
X1	25°10'54"N	121°22'33"E	2005/01-2018/11(觀測中)	港研中心	台北港新觀測樁
Y	24°45'39N	120°50'38"E	1997/06-2018/11(觀測中)	中央氣象局	新竹浮標站

# 北苗海域

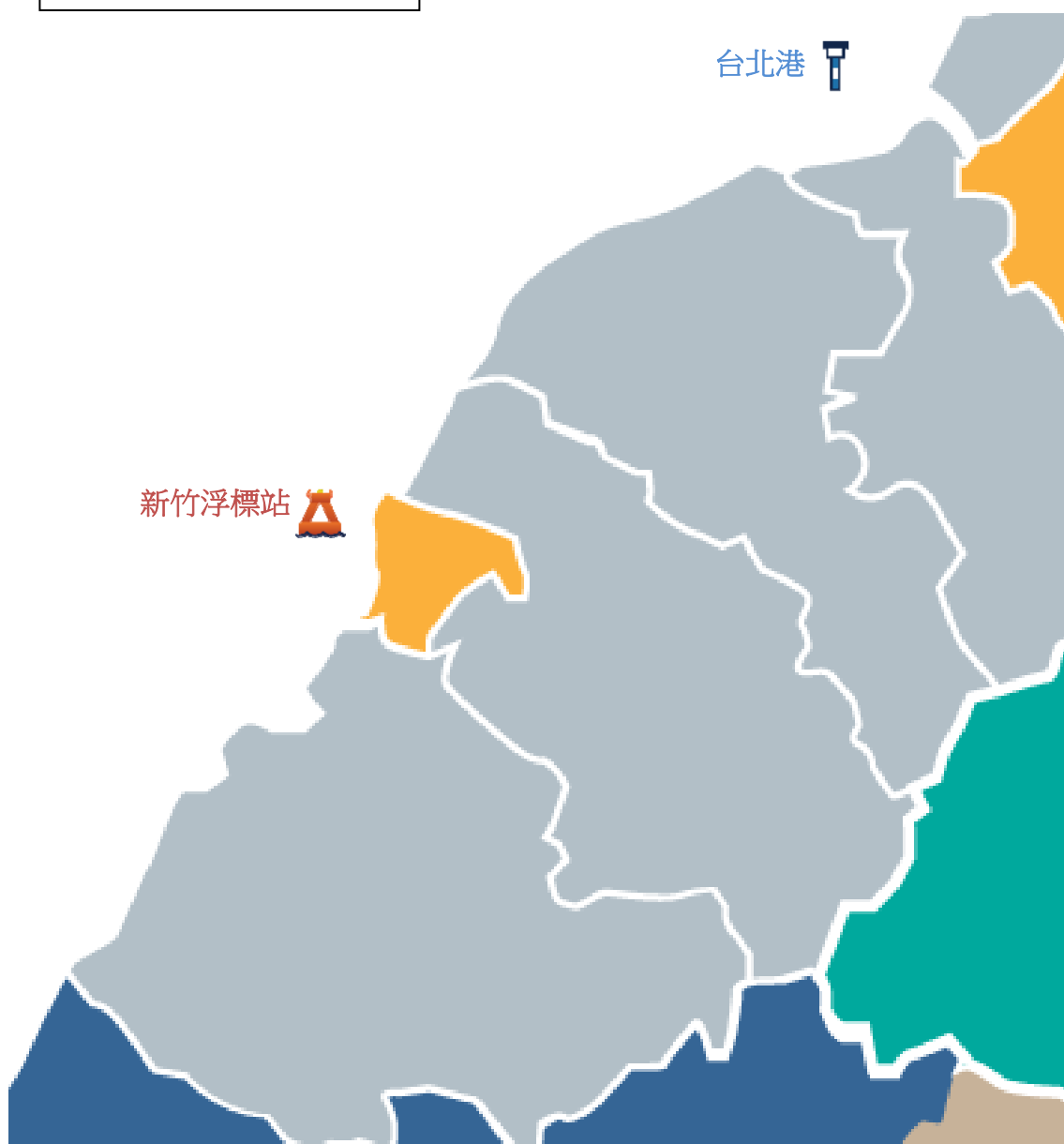


圖 VP1 北苗海域波浪觀測站位置示意圖



## 2018 年北苗海域觀測潮汐資料

北苗海域(新北~苗栗)潮汐之觀測係 1996 年 10 月於臺北港海上舊觀測樁測站 (稱**測站 X0**)，位置如附圖 TP1，觀測樁上裝設 S-4ADW 潮波儀(壓力式)，2004 年 12 月以後更換新觀測樁測站 (稱**測站 X1**)，並安置 AWCP 即時傳送監測系統，也具量測水位功能。2009 年 9 月本中心於港內碼頭增設有長期水位觀測(稱**測站 T**)。2018 年於臺北港內增設即時水深潮位站(稱**測站 S**)。另中央氣象局安置水位計於台北港(**測站 J**)、淡水漁人碼頭(**測站 M**及**測站 O**)、竹圍(**測站 K**)、新竹(稱**測站 P**)及外埔(稱**測站 Q**)，水利署於淡水河口安置水位計(稱**測站 F**)。歷年各站觀測潮汐資料蒐集概況如表 TP1。

潮波流儀以壓力感測器測得水壓變化時間序列，取樣方式為每一小時取一段水位變化，然後加以平均得水位的值。潮位資料之平均水位以觀測水位資料之平均值為基準，未經高程量測。碼頭觀測潮位資料取樣方式為每 6 分鐘量測一次水位變化。

**表 TP1 北苗海域觀測潮汐資料蒐集概況表(統計時間至 2018 年 11 月)**

測站	緯度	經度	觀測期間	觀測單位	備註
T	25°09'56"N	121°23'35"E	2009/09-2018/11(觀測中)	港研中心	Water Log 潮位計
X0	25°10'44"N	121°22'41"E	1996/10-2004/09	港研中心	S4，舊觀測樁
X1	25°10'54"N	121°22'33"E	2005/01-2018/11(觀測中)	港研中心	S4、AWCP 新觀測樁
F	25°10'58"N	121°24'37"E	1994/10-2018/11(觀測中)	水利署	淡水河口潮位站
J	25°09'18"N	121°23'33"E	2013/12 -2015/07	中央氣象局	台北港潮位站
K	25°07'12"N	121°14'07"E	2013/12-2018/11(觀測中)	中央氣象局	竹圍潮位站
P	24°51'01"N	120°54'44"E	2013/12-2018/11(觀測中)	中央氣象局	新竹潮位站
Q	24°39'05"N	120°46'18"E	2013/12-2018/11(觀測中)	中央氣象局	外埔潮位站
M	25°11'3"N	121°24'25"E	2016/09-2018/11(觀測中)	中央氣象局	淡水魚人碼頭
O	25°18'48"N	121°24'36"E	2017/03-2018/11(觀測中)	中央氣象局	淡水魚人碼頭
S			2018/09-2018/11(觀測中)	港研中心	臺北港即時水深站

# 北苗海域

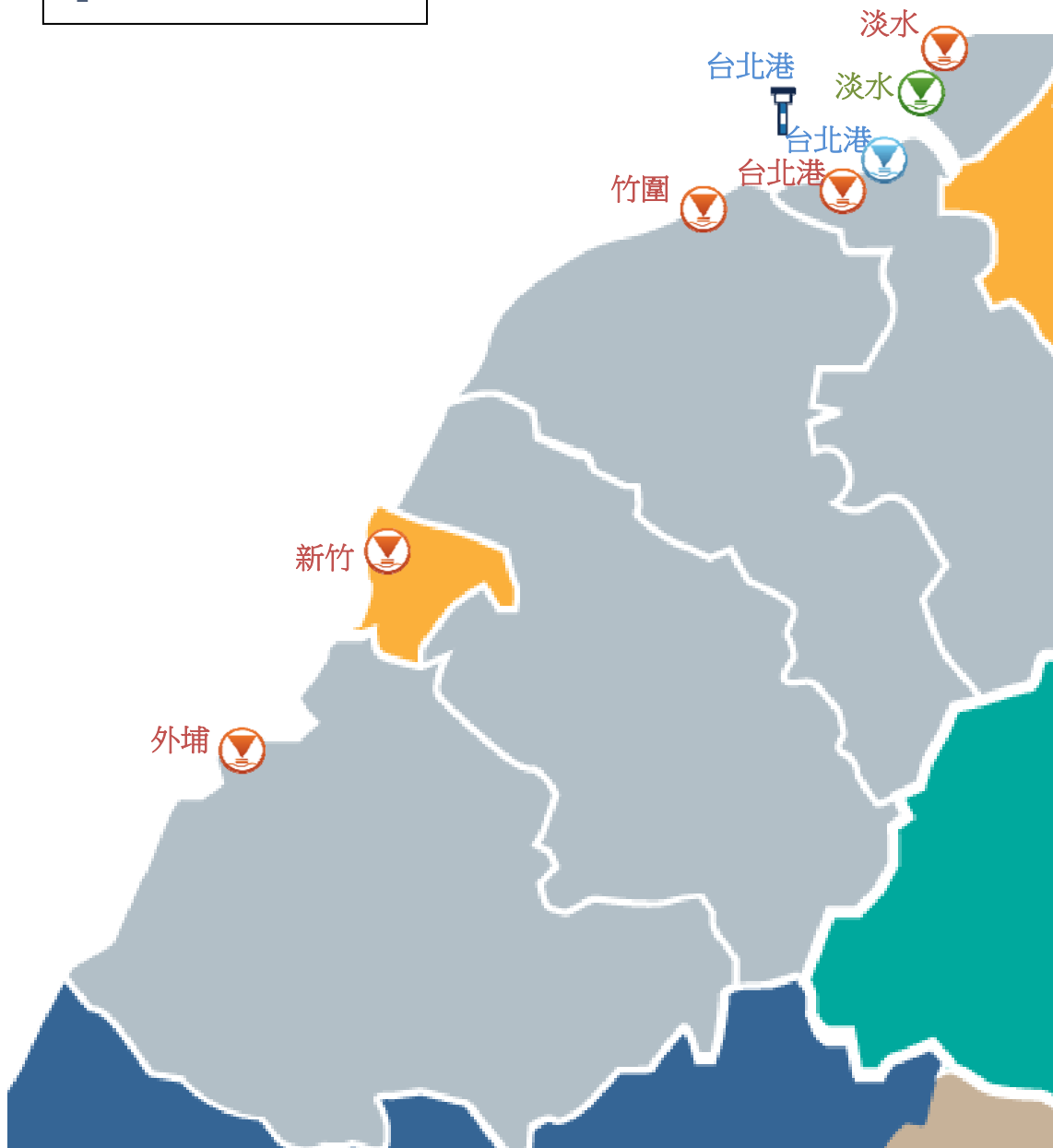


圖 TP1 北苗海域潮汐觀測站位置示意圖

## 2018 年北苗海域觀測海流資料

北苗海域海流之觀測 1996 年 10 月至 2004 年 9 月本中心(IHMT)於臺北港外海舊觀測樁(稱測站 X0)，儀器為觀測樁水下 5 米之 Inter Ocean 公司 S-4ADW 潮波流儀。2004 年 12 月以後新觀測樁測站(稱測站 X1)，如附圖 CP1，並改為安置 AWCP 即時傳送監測系統。歷年觀測海流資料蒐集概況如表 CP1。

S-4ADW 潮波流儀儀器收取每小時之前 10 分鐘之  $V_E$ 、 $V_N$  速分量；取樣頻率為 2Hz，所得之數據加以平均得出該小時之平均流速、平均流向等資料。

AWCP 剖面海流流速的量測可以依照使用在不同水深即自固定在海床上之儀器位置到水表面來設定量測不同的間距，本觀測站水深間距設定為 1~2 公尺；每小時連續量測 600 秒，再將總和平均代表其數樣每一間距層之海流流速、流向等資料，記錄在感應器內，並每隔 1 小時經由海底電纜傳訊回接收站之電腦中儲存。

表 CP1 北苗海域觀測海流資料蒐集概況表(統計時間至 2018 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	1996/10-2004/09	港研中心	台北港舊觀測樁
X1	25°10'54"N	121°22'33"E	2005/01-2018/11(觀測中)	港研中心	台北港新觀測樁

# 北苗海域

 IHMT 觀測樁波潮流站

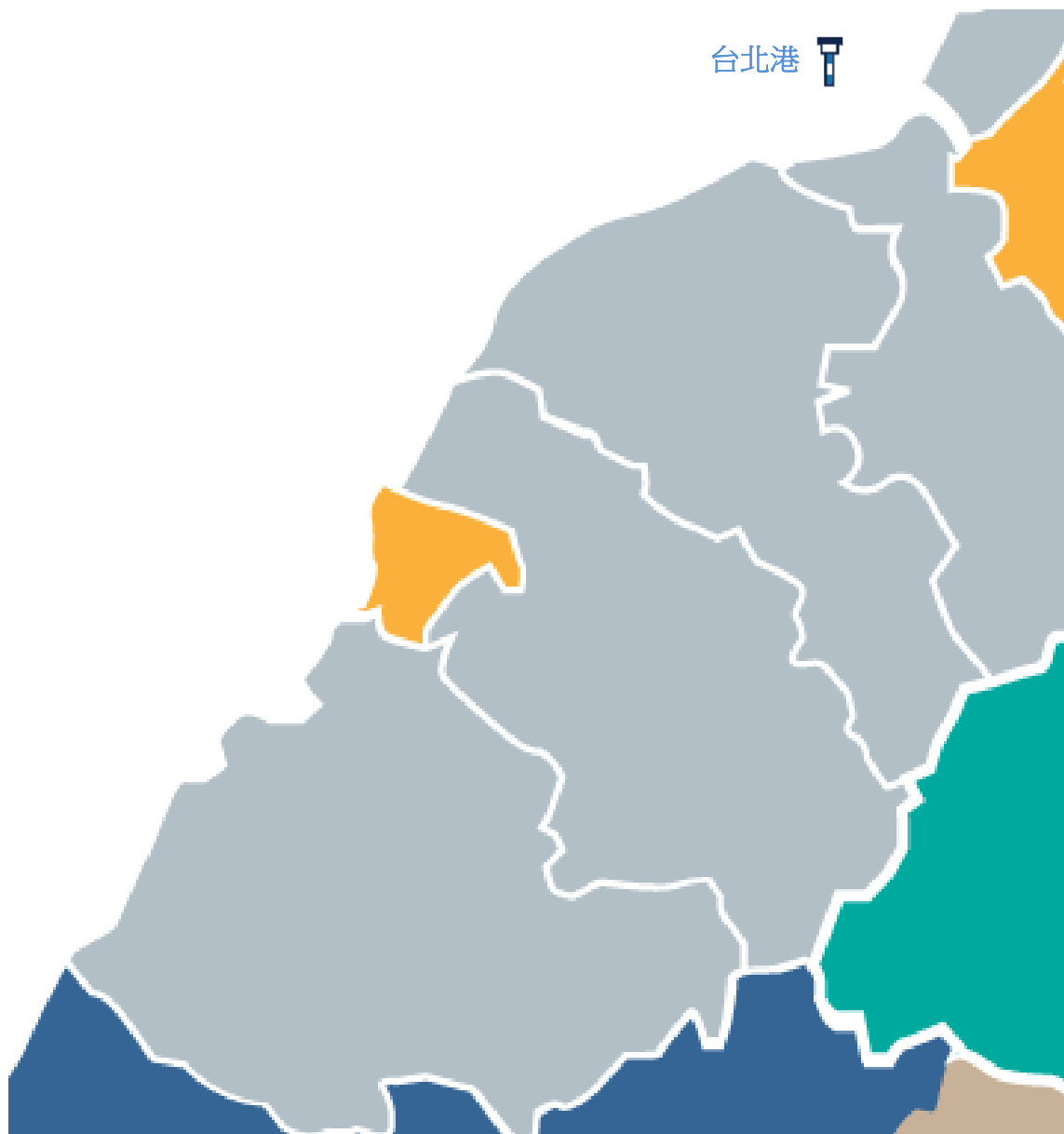


圖 CP1 北苗海域海流觀測站位置示意圖

# 第一章 2018 年北苗海域觀測風力資料年報

北苗海域(新北~苗栗)風力之觀測包括測站 **X**、測站 **W**、測站 **E**、測站 **Y**、測站 **P**、測站 **Q**、測站 **H** 及測站 **I** 等 8 個測站(測站位置如第 0 章圖 WP1)。本年報取經檢核及補遺之 **X** 站資料作為主要測站 1，**Y** 站資料作為主要測站 2。

## 1.1 2018 年北苗海域觀測風力資料年報圖表

本章第 1 節**風力**年報資料處理之圖表包括：

1. 表 1.1.1a 2018 年**各觀測站**每月**觀測風力**資料**修補前**記錄表。
2. 表 1.1.1b 2018 年**主要測站**每月**觀測風力**資料**修補後**記錄表。
3. 表 1.1.2 2018 年**主要測站 1****修補後**每月(季)及整年風速及風向重要統計量統計表。
4. 表 1.1.3 2018 年**主要測站 2****修補後**每月(季)及整年風速及風向重要統計量統計表。
5. 圖 1.1.1a 2018 年**主要測站 1****修補前後**每月風速歷線比較圖。
6. 圖 1.1.1b 2018 年**主要測站 1****修補前後**每月風向歷線比較圖。
7. 圖 1.1.2a 2018 年**主要測站 2****修補前後**每月風速歷線比較圖。
8. 圖 1.1.2b 2018 年**主要測站 2****修補前後**每月風向歷線比較圖。
9. 圖 1.1.3 2018 年**主要測站 1****修補後**每月風力向量分佈圖。
10. 圖 1.1.4 2018 年**主要測站 2****修補後**每月風力向量分佈圖。
11. 圖 1.1.5 2018 年**主要測站 1****修補後**每月風力向量行進圖。
12. 圖 1.1.6 2018 年**主要測站 2****修補後**每月風力向量行進圖。

第 2 節風力年報資料處理之統計表包括：2018 年北苗海域**各測站****修補前**每月(季)及整年風速及風向重要統計量統計表。

第 3 節風力年報資料處理之統計圖包括：2018 年北苗海域**主要測站 1****修補後**與**其他測站(修補前)**每月風速及風向歷線比較圖。

第 4 節風力年報資料處理之統計圖包括：2018 年北苗海域**主要測站 2****修補後**與**其他測站(修補前)**每月風速及風向歷線比較圖。

第 5 節風力年報資料處理之統計圖包括：2018 年北苗海域**各測站****修補前**每月風力向量分佈圖。

第 6 節風力年報資料處理之統計圖包括：2018 年北苗海域**各測站****修補前**每月風力向量行進圖。

表 1.1.1a 2018年每月北苗海域修補前各測站觀測風力資料紀錄表

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	北苗海域	北苗海域	北苗海域	北苗海域	北苗海域
年月/測站	X	Y	W	E	P	Q	H	I				
2017/12月	60( 8.1%)	728(97.8%)	162(21.8%)	741(99.6%)	562(75.5%)	560(75.3%)	744(100%)	744(100%)	*	*	*	*
2018/ 1月	*	724(97.3%)	562(75.5%)	741(99.6%)	708(95.2%)	703(94.5%)	744(100%)	744(100%)	*	*	*	*
2018/ 2月	*	629(93.6%)	227(33.8%)	672(100%)	656(97.6%)	653(97.2%)	672(100%)	672(100%)	*	*	*	*
2018/ 3月	674(90.6%)	708(95.2%)	597(80.2%)	741(99.6%)	704(94.6%)	707(95.0%)	744(100%)	744(100%)	*	*	*	*
2018/ 4月	682(94.7%)	626(86.9%)	682(94.7%)	720(100%)	691(96.0%)	695(96.5%)	720(100%)	720(100%)	*	*	*	*
2018/ 5月	734(98.7%)	467(62.8%)	705(94.8%)	744(100%)	465(62.5%)	463(62.2%)	744(100%)	744(100%)	*	*	*	*
2018/ 6月	715(99.3%)	668(92.8%)	689(95.7%)	720(100%)	682(94.7%)	685(95.1%)	720(100%)	720(100%)	*	*	*	*
2018/ 7月	734(98.7%)	672(90.3%)	696(93.5%)	744(100%)	668(89.8%)	693(93.1%)	744(100%)	744(100%)	*	*	*	*
2018/ 8月	741(99.6%)	691(92.9%)	702(94.4%)	734(98.7%)	722(97.0%)	723(97.2%)	744(100%)	744(100%)	*	*	*	*
2018/ 9月	711(98.8%)	627(87.1%)	668(92.8%)	720(100%)	664(92.2%)	665(92.4%)	720(100%)	720(100%)	*	*	*	*
2018/10月	733(98.5%)	736(98.9%)	705(94.8%)	739(99.3%)	743(99.9%)	743(99.9%)	744(100%)	744(100%)	*	*	*	*
2018/11月	711(98.8%)	651(90.4%)	678(94.2%)	720(100%)	672(93.3%)	668(92.8%)	719(99.9%)	720(100%)	*	*	*	*
2018/冬季	60( 2.8%)	2081(96.3%)	951(44.0%)	2154(99.7%)	1926(89.2%)	1916(88.7%)	2160(100%)	2160(100%)	*	*	*	*
2018/春季	2090(94.7%)	1801(81.6%)	1984(89.9%)	2205(99.9%)	1860(84.2%)	1865(84.5%)	2208(100%)	2208(100%)	*	*	*	*
2018/夏季	2190(99.2%)	2031(92.0%)	2087(94.5%)	2198(99.5%)	2072(93.8%)	2101(95.2%)	2208(100%)	2208(100%)	*	*	*	*
2018/秋季	2155(98.7%)	2014(92.2%)	2051(93.9%)	2179(99.8%)	2079(95.2%)	2076(95.1%)	2183(99.9%)	2184(100%)	*	*	*	*
2018/整年	6495(74.1%)	7927(90.5%)	7073(80.7%)	8736(99.7%)	7937(90.6%)	7958(90.8%)	8759(99.9%)	8760(100%)	*	*	*	*
起始年月	2017/12	2017/12	2017/12	2017/12	2017/12	2017/12	2017/12	2017/12	*	*	*	*
結束年月	2018/11	2018/11	2018/11	2018/11	2018/11	2018/11	2018/11	2018/11	*	*	*	*

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表 1.1.1b 2018年每月北苗海域修補後各測站風力資料紀錄表

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	北苗海域	北苗海域	北苗海域	北苗海域	北苗海域
年月/測站	X	Y										
2017/12月	744(100%)	744(100%)	*	*	*	*	*	*	*	*	*	*
2018/ 1月	744(100%)	744(100%)	*	*	*	*	*	*	*	*	*	*
2018/ 2月	672(100%)	672(100%)	*	*	*	*	*	*	*	*	*	*
2018/ 3月	744(100%)	744(100%)	*	*	*	*	*	*	*	*	*	*
2018/ 4月	720(100%)	720(100%)	*	*	*	*	*	*	*	*	*	*
2018/ 5月	744(100%)	744(100%)	*	*	*	*	*	*	*	*	*	*
2018/ 6月	720(100%)	720(100%)	*	*	*	*	*	*	*	*	*	*
2018/ 7月	744(100%)	744(100%)	*	*	*	*	*	*	*	*	*	*
2018/ 8月	744(100%)	744(100%)	*	*	*	*	*	*	*	*	*	*
2018/ 9月	720(100%)	720(100%)	*	*	*	*	*	*	*	*	*	*
2018/10月	744(100%)	744(100%)	*	*	*	*	*	*	*	*	*	*
2018/11月	720(100%)	720(100%)	*	*	*	*	*	*	*	*	*	*
2018/冬季	2160(100%)	2160(100%)	*	*	*	*	*	*	*	*	*	*
2018/春季	2208(100%)	2208(100%)	*	*	*	*	*	*	*	*	*	*
2018/夏季	2208(100%)	2208(100%)	*	*	*	*	*	*	*	*	*	*
2018/秋季	2184(100%)	2184(100%)	*	*	*	*	*	*	*	*	*	*
2018/整年	8760(100%)	8760(100%)	*	*	*	*	*	*	*	*	*	*
起始年月	2017/12	2017/12	*	*	*	*	*	*	*	*	*	*
結束年月	2018/11	2018/11	*	*	*	*	*	*	*	*	*	*

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表1.1.2 2018年北苗海域 X 站修補後風速及風向重要統計量統計表

序號	日期 (年/月)	觀測 點數	風速 平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最大風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	2017/12	744(100%)	9.4	8.7/NE	16.6/NE	5.8	25.5	57.5	11.2	85.3	11.6	2.3	.8	NE /55.5%
2	2018/01	744(100%)	7.4	6.5/NE	14.5/NE	11.7	41.9	45.7	.7	79.0	16.1	2.2	2.7	NE /45.2%
3	2018/02	672(100%)	7.3	6.5/NE	16.5/ESE	21.7	27.2	50.6	.4	77.4	13.8	4.3	4.5	NE /43.2%
4	2018/03	744(100%)	6.3	4.1/NE	17.5/NNE	29.2	36.6	32.4	1.9	50.0	28.0	8.9	13.2	NE /19.2%
5	2018/04	720(100%)	4.8	2.4/ENE	16.9/NNE	45.0	34.7	18.9	1.4	34.4	38.1	14.3	13.2	NE /15.0%
6	2018/05	744(100%)	4.7	.7/NW	15.1/ESE	48.9	29.6	21.1	.4	28.8	18.0	33.1	20.2	W /16.0%
7	2018/06	720(100%)	5.7	2.1/NNE	14.7/NNE	31.8	38.8	29.2	.3	49.0	16.1	26.8	8.1	NNE/20.3%
8	2018/07	744(100%)	6.4	1.1/S	22.3/WSW	28.5	34.8	34.5	2.2	19.1	32.0	37.4	11.6	SW /16.3%
9	2018/08	744(100%)	4.2	.6/W	12.4/WSW	46.2	41.0	12.8	.0	21.9	25.8	35.6	16.7	SW /10.2%
10	2018/09	720(100%)	6.5	3.3/NE	16.5/ESE	31.0	32.8	32.1	4.2	42.5	25.3	17.9	14.3	NNE/15.6%
11	2018/10	744(100%)	7.5	6.7/NE	15.9/N	10.5	42.2	45.3	2.0	84.3	7.5	3.2	5.0	NE /42.7%
12	2018/11	720(100%)	7.0	5.4/NE	15.3/NE	20.1	37.1	41.3	1.5	68.2	16.5	7.5	7.8	NE /33.9%
13	2018/冬	2160(100%)	8.1	7.3/NE	16.6/NE	12.8	31.7	51.3	4.2	80.7	13.8	2.9	2.6	NE /48.1%
14	2018/春	2208(100%)	5.2	2.1/NE	17.5/NNE	41.0	33.6	24.2	1.2	37.8	27.9	18.8	15.5	NE /16.6%
15	2018/夏	2208(100%)	5.4	.3/NE	22.3/WSW	35.6	38.2	25.5	.8	29.8	24.7	33.3	12.1	SW /12.0%
16	2018/秋	2184(100%)	7.0	5.2/NE	16.5/ESE	20.4	37.4	39.6	2.6	65.2	16.3	9.5	9.0	NE /30.0%
17	2018/年	8760(100%)	6.4	3.7/NE	22.3/WSW	27.5	35.2	35.0	2.2	53.2	20.8	16.2	9.9	NE /25.9%

表1.1.3 2018年北苗海域 Y 站修補後風速及風向重要統計量統計表

序 號	日期 (年/月)	觀測 點數	風速 平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最大風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	2017/12	744(100%)	10.3	9.8/NE	17.9/NE	11.8	14.8	50.3	23.1	87.8	5.9	3.6	2.7	NE /71.2%
2	2018/01	744(100%)	8.9	8.2/NE	16.8/NE	10.6	23.5	58.7	7.1	87.1	5.9	4.2	2.8	NE /51.5%
3	2018/02	672(100%)	8.6	7.9/NE	16.5/NE	14.6	28.6	46.4	10.4	83.8	6.0	4.6	5.7	NE /58.0%
4	2018/03	744(100%)	6.0	4.4/NE	15.3/NE	34.0	34.1	28.8	3.1	57.8	21.6	7.7	12.9	NE /28.4%
5	2018/04	720(100%)	4.9	2.4/NE	15.5/NE	47.8	27.8	23.1	1.4	44.4	18.5	18.5	18.6	NE /21.3%
6	2018/05	744(100%)	5.0	1.7/W	12.9/NE	35.8	42.6	21.6	.0	28.2	12.9	43.3	15.6	WSW/17.3%
7	2018/06	720(100%)	6.1	1.0/NNE	13.6/NE	26.0	41.5	32.5	.0	46.3	12.1	37.4	4.3	NE /20.8%
8	2018/07	744(100%)	5.5	2.5/WSW	13.6/NW	34.0	39.9	26.1	.0	16.9	13.4	49.7	19.9	SW /20.0%
9	2018/08	744(100%)	4.7	2.1/WSW	11.5/SW	39.4	41.9	18.7	.0	17.1	18.4	50.8	13.7	SW /21.0%
10	2018/09	720(100%)	6.2	3.3/NE	16.9/NE	34.0	29.4	33.6	2.9	45.7	14.6	25.4	14.3	NE /25.0%
11	2018/10	744(100%)	8.7	8.4/NE	18.2/ENE	8.6	27.0	58.5	5.9	91.8	5.0	.9	2.3	NE /66.5%
12	2018/11	720(100%)	6.8	6.1/NE	17.7/NE	22.9	38.2	33.3	5.6	78.2	9.4	4.6	7.8	NE /51.0%
13	2018/冬	2160(100%)	9.3	8.6/NE	17.9/NE	12.3	22.1	52.0	13.7	86.3	5.9	4.1	3.7	NE /60.3%
14	2018/春	2208(100%)	5.3	1.9/NNE	15.5/NE	39.1	34.9	24.5	1.5	43.5	17.7	23.2	15.7	NE /19.4%
15	2018/夏	2208(100%)	5.4	1.3/WSW	13.6/NE	33.2	41.1	25.7	.0	26.5	14.7	46.1	12.7	SW /18.2%
16	2018/秋	2184(100%)	7.3	5.9/NE	18.2/ENE	21.7	31.5	42.0	4.8	72.1	9.6	10.2	8.1	NE /47.7%
17	2018/年	8760(100%)	6.8	3.8/NE	18.2/ENE	26.7	32.5	35.9	4.9	56.9	12.0	21.0	10.1	NE /33.9%

9-1-1

# Wind Speed in Pei-Miao Seas of TPX0 at 2018

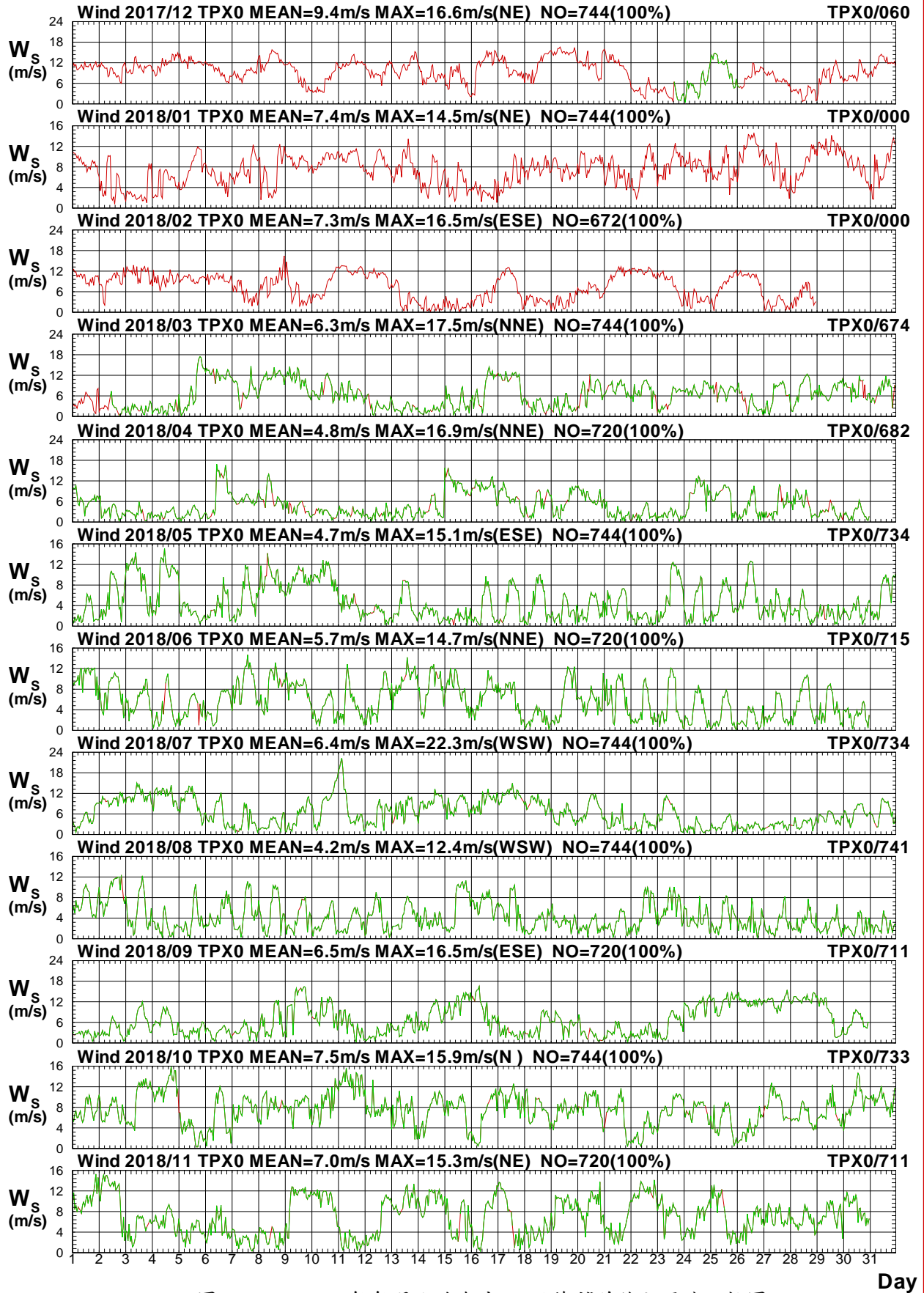


圖1.1.1a 2018年每月北苗海域 X 站修補前後之風速比較圖

W17CTPX0.1HA W17CTPX0.1H0 W181TPX0.1HA W181TPX0.1H0 W182TPX0.1HA W182TPX0.1H0  
 W183TPX0.1HA W183TPX0.1H0 W184TPX0.1HA W184TPX0.1H0 W185TPX0.1HA W185TPX0.1H0

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# Wind Direction in Pei-Miao Seas of TPX0 at 2018

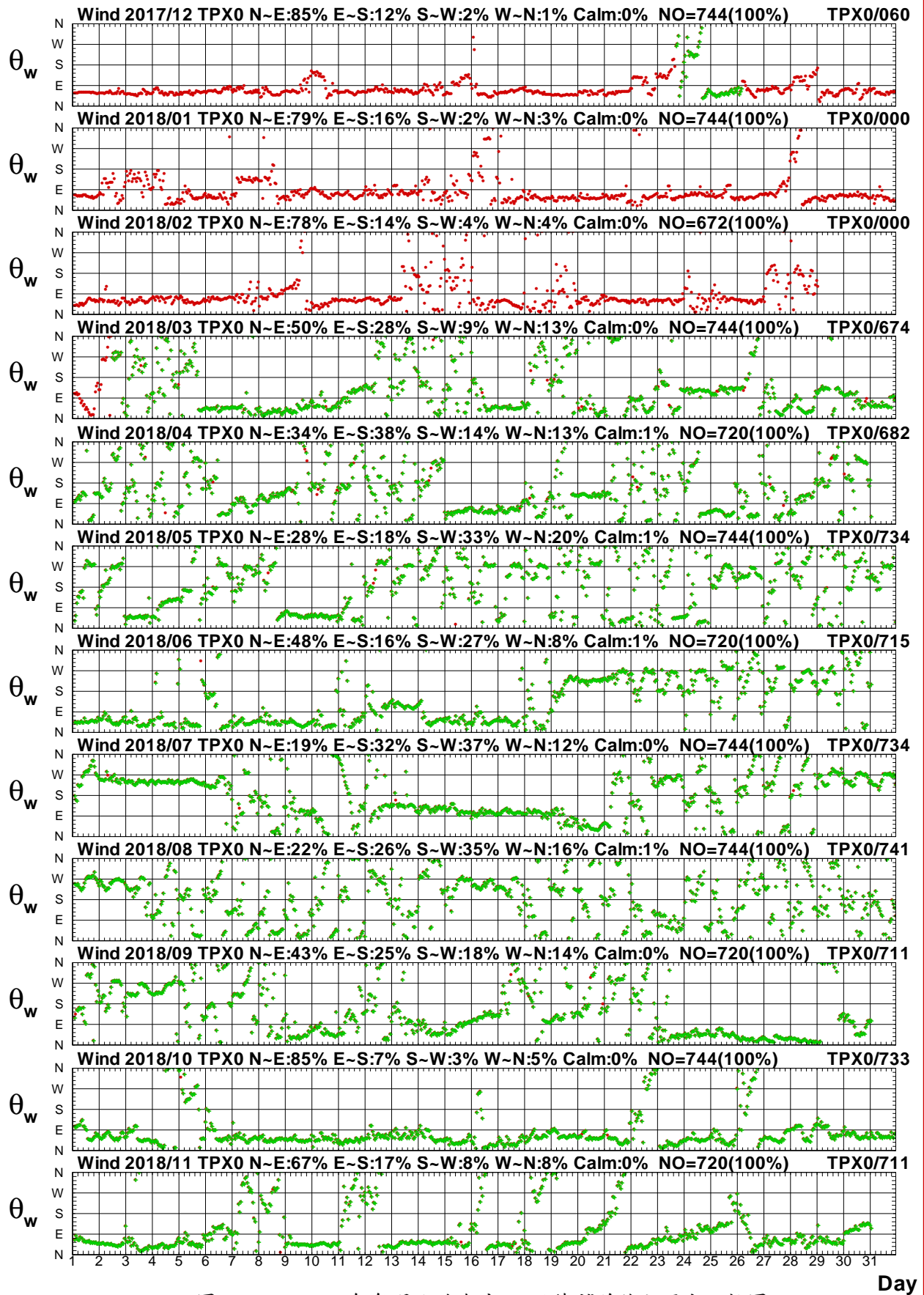


圖1.1.1b 2018年每月北苗海域 X 站修補前後之風向比較圖

W17CTPX0.1HA W17CTPX0.1H0 W181TPX0.1HA W181TPX0.1H0 W182TPX0.1HA W182TPX0.1H0  
W183TPX0.1HA W183TPX0.1H0 W184TPX0.1HA W184TPX0.1H0 W185TPX0.1HA W185TPX0.1H0

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# Wind Speed in Pei-Miao Seas of TPY0 at 2018

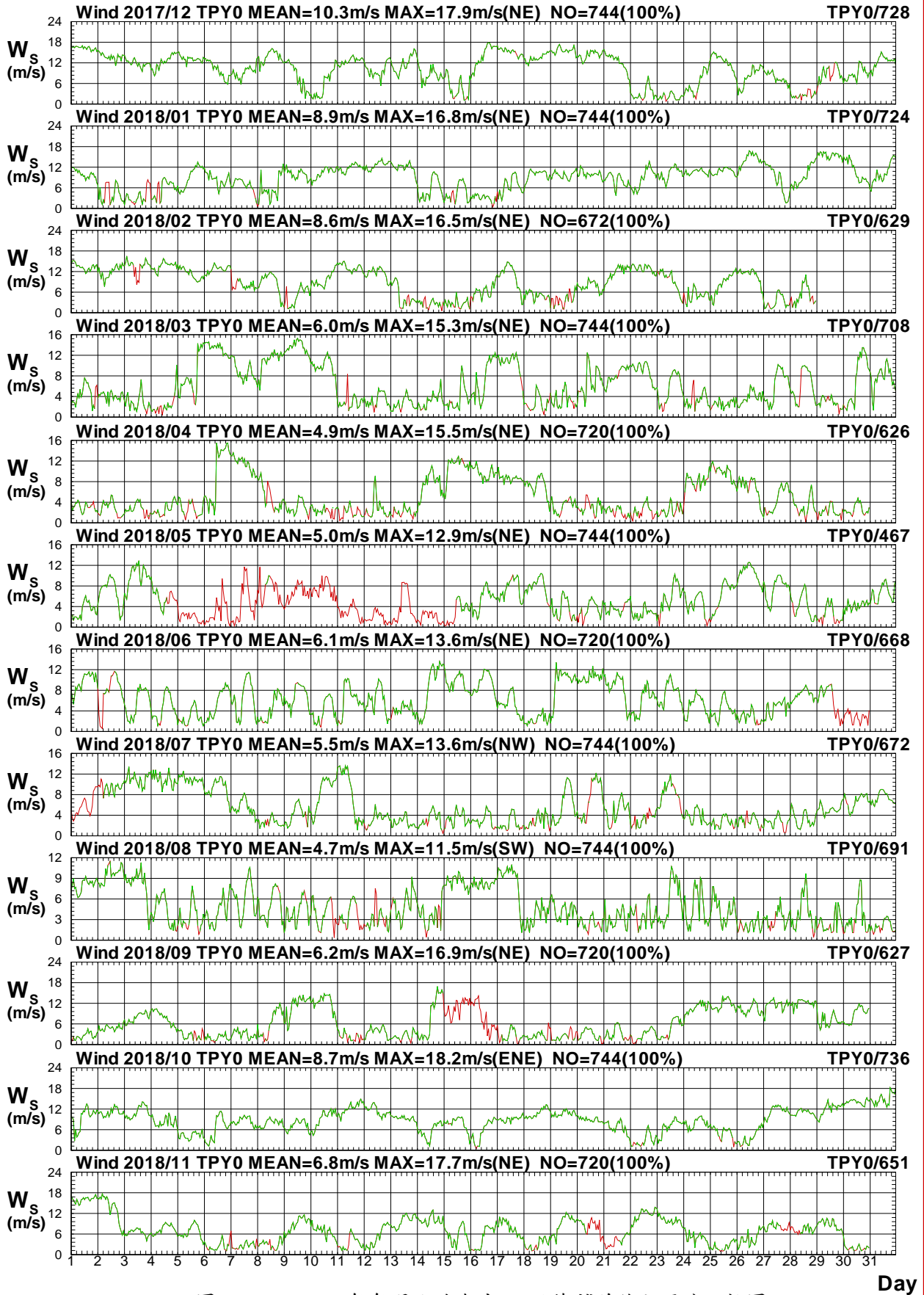


圖1.1.2a 2018年每月北苗海域 Y 站修補前後之風速比較圖

W17CTPY0.1HA W17CTPY0.1H0 W181TPY0.1HA W181TPY0.1H0 W182TPY0.1HA W182TPY0.1H0  
 W183TPY0.1HA W183TPY0.1H0 W184TPY0.1HA W184TPY0.1H0 W185TPY0.1HA W185TPY0.1H0

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# Wind Direction in Pei-Miao Seas of TPY0 at 2018

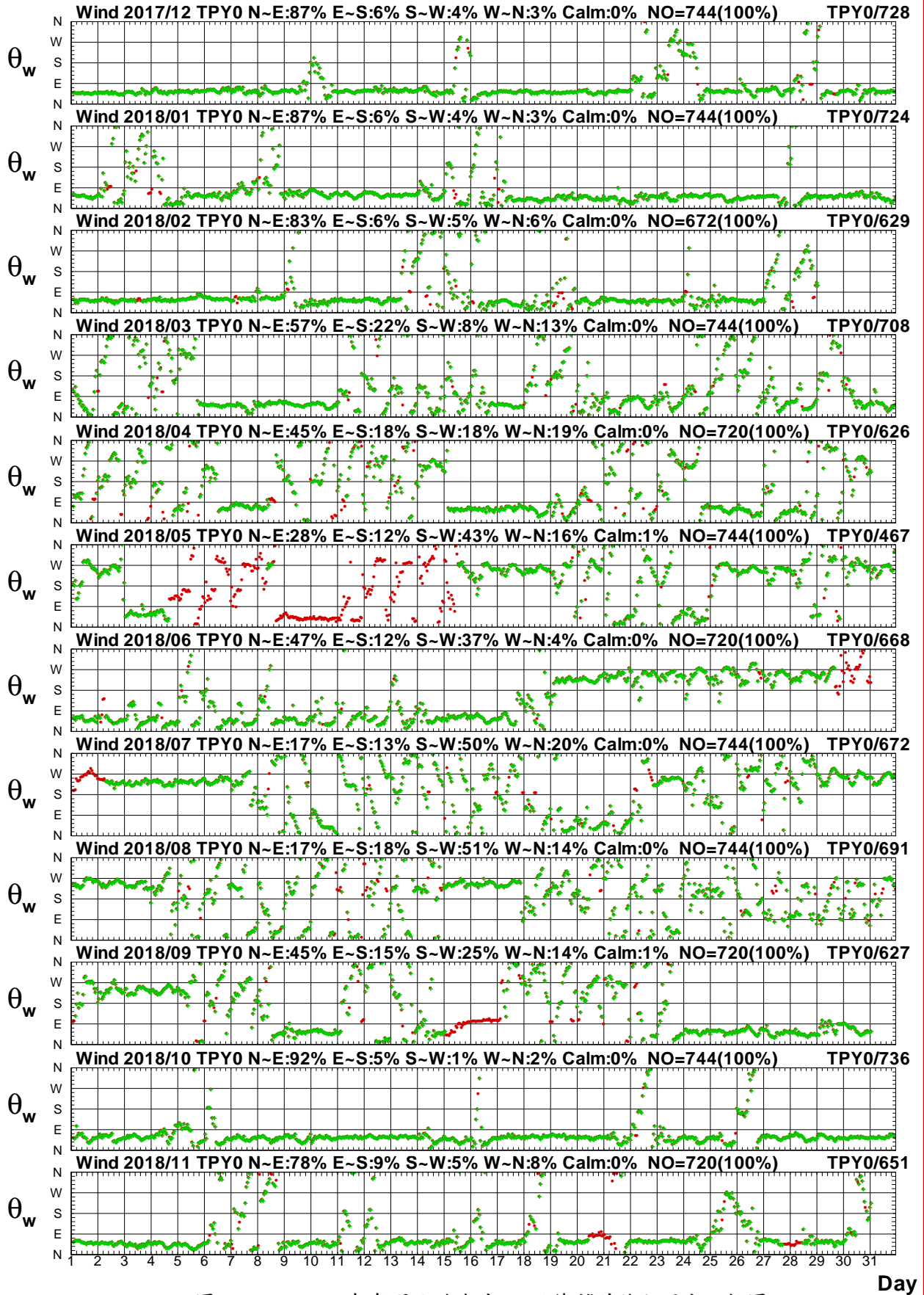


圖1.1.2b 2018年每月北苗海域 Y 站修補前後之風向比較圖

W17CTPY0.1HA W17CTPY0.1H0 W181TPY0.1HA W181TPY0.1H0 W182TPY0.1HA W182TPY0.1H0  
 W183TPY0.1HA W183TPY0.1H0 W184TPY0.1HA W184TPY0.1H0 W185TPY0.1HA W185TPY0.1H0

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# Distribution of Wind Vectors

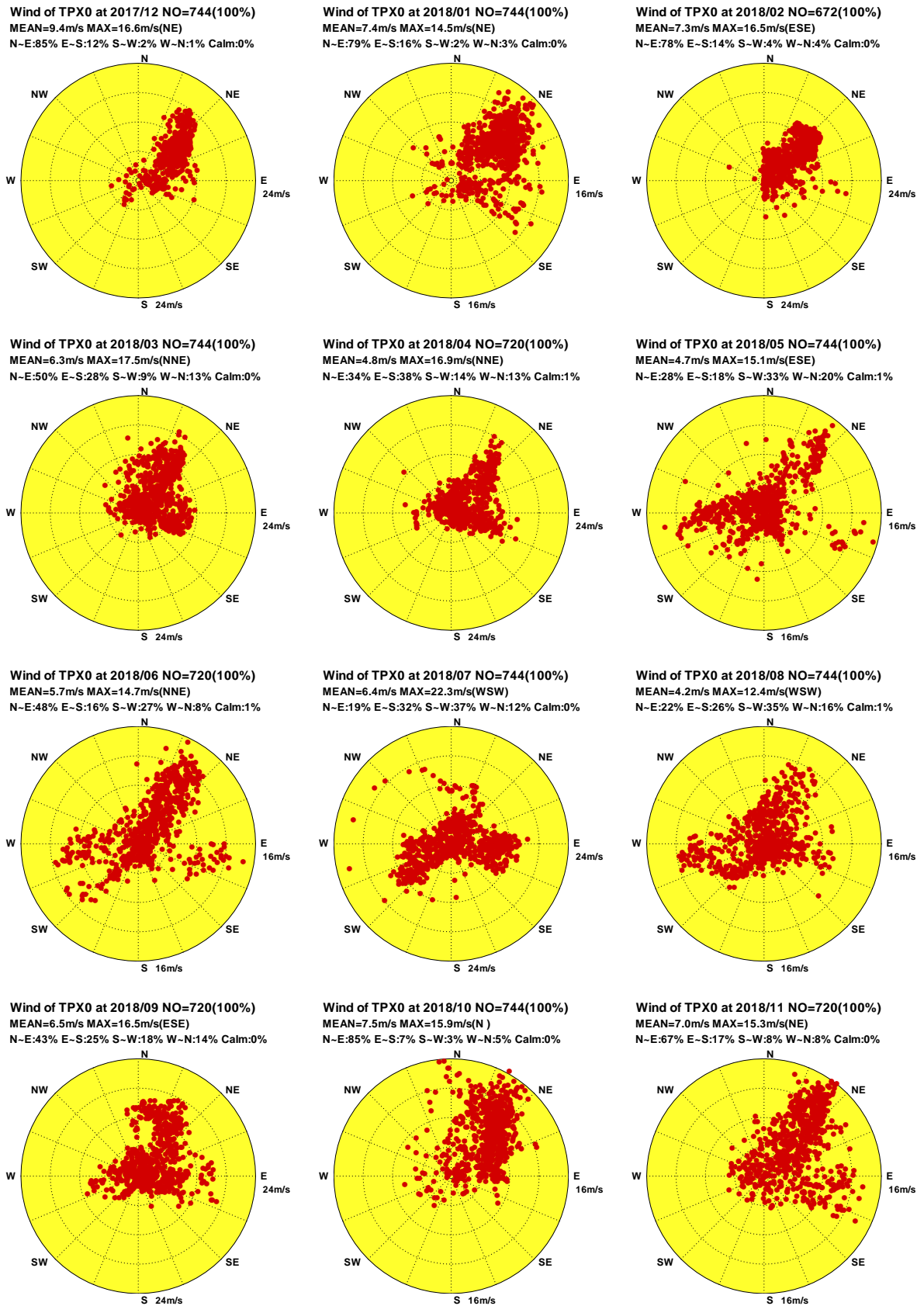


圖1.1.3 2018年北苗海域每月 X 站修補後觀測風力向量分佈圖

W17CTPX0.1HA W181TPX0.1HA W182TPX0.1HA W183TPX0.1HA W184TPX0.1HA W185TPX0.1HA  
 W186TPX0.1HA W187TPX0.1HA W188TPX0.1HA W189TPX0.1HA W18ATPX0.1HA W18BTPX0.1HA

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# Distribution of Wind Vectors

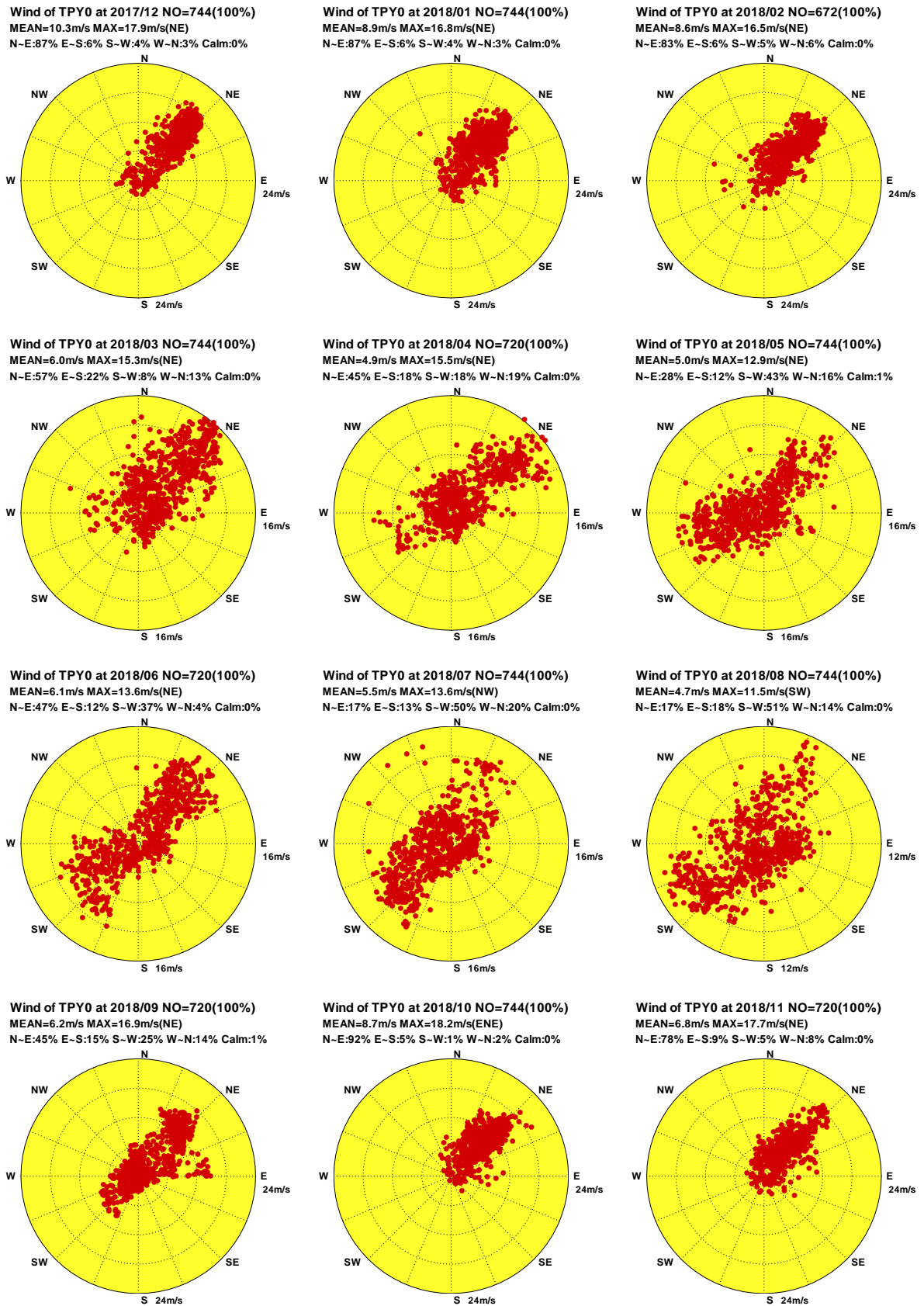


圖1.1.4 2018年北苗海域每月 Y 站修補後觀測風力向量分佈圖

W17CTPY0.1HA W181TPY0.1HA W182TPY0.1HA W183TPY0.1HA W184TPY0.1HA W185TPY0.1HA  
W186TPY0.1HA W187TPY0.1HA W188TPY0.1HA W189TPY0.1HA W18ATPY0.1HA W18BTPY0.1HA

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# Progressive Vector Diagram of Wind

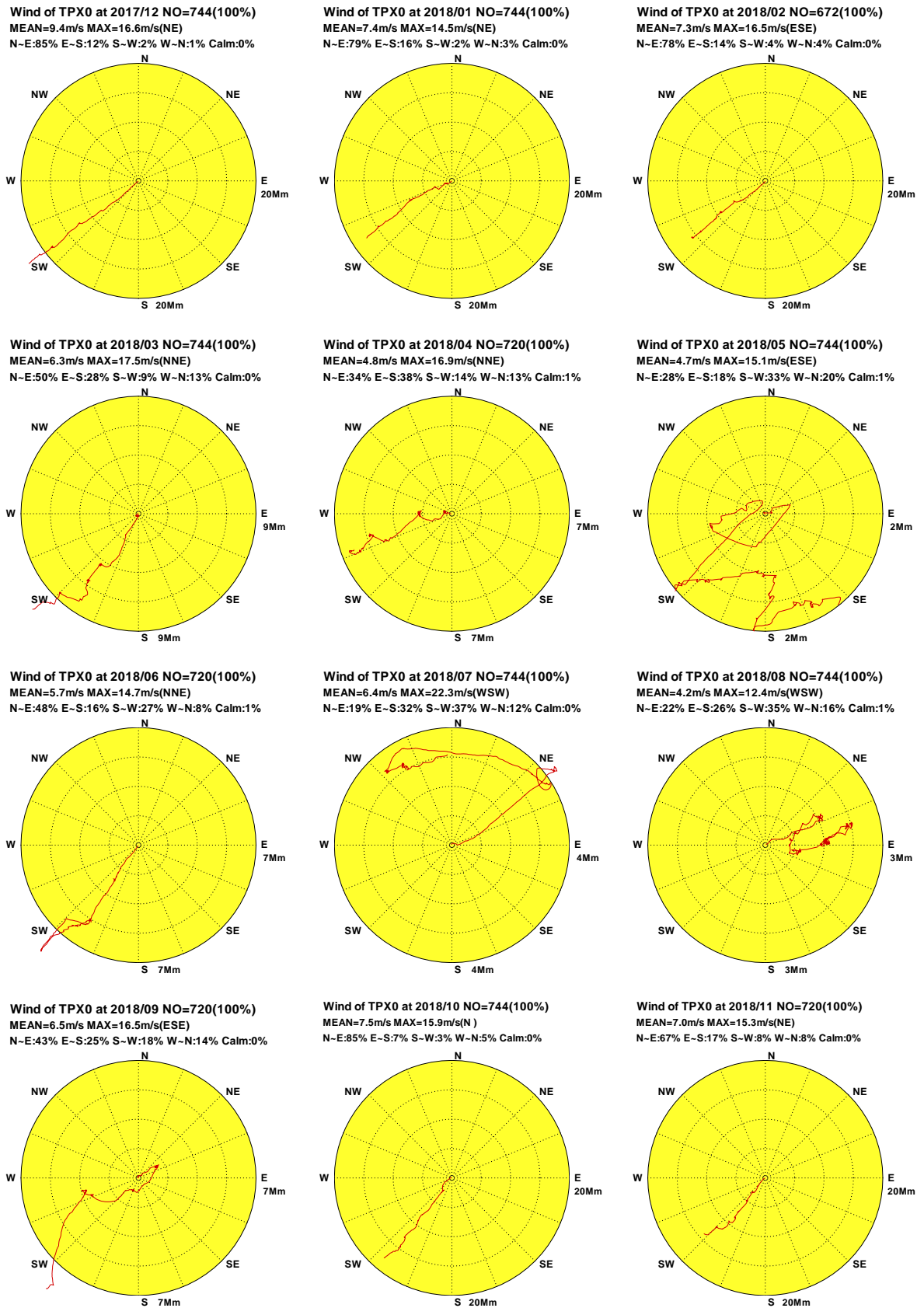


圖1.1.5 2018年北苗海域每月 X 站修補後觀測風力向量行進圖

W17TPX0.1HA W181TPX0.1HA W182TPX0.1HA W183TPX0.1HA W184TPX0.1HA W185TPX0.1HA  
W186TPX0.1HA W187TPX0.1HA W188TPX0.1HA W189TPX0.1HA W18ATPX0.1HA W18BTPX0.1HA

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# Progressive Vector Diagram of Wind

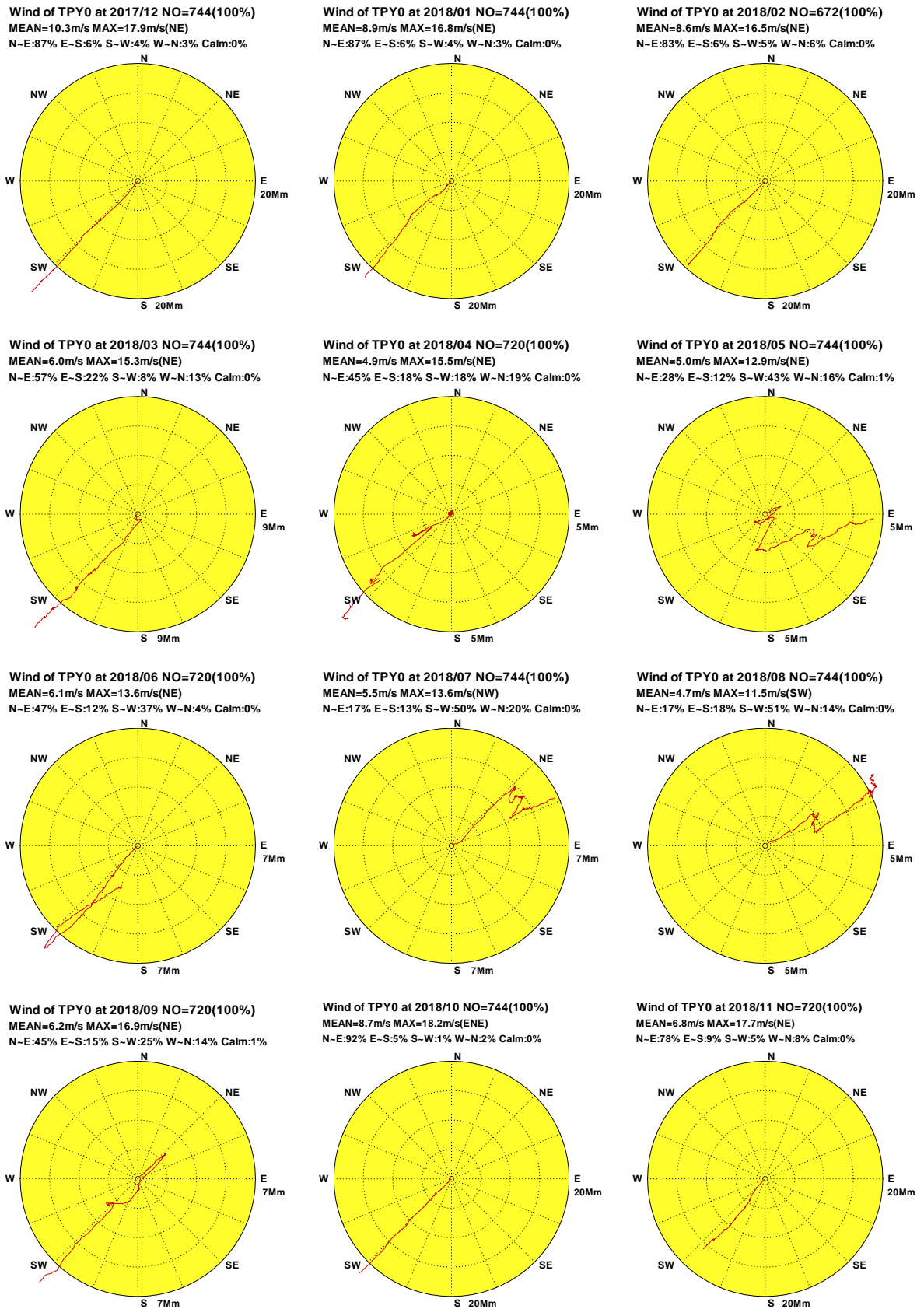


圖1.1.6 2018年北苗海域每月 Y 站修補後觀測風力向量行進圖

W17CTPY0.1HA W181TPY0.1HA W182TPY0.1HA W183TPY0.1HA W184TPY0.1HA W185TPY0.1HA  
W186TPY0.1HA W187TPY0.1HA W188TPY0.1HA W189TPY0.1HA W18ATPY0.1HA W18BTPY0.1HA

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## 1.2 2018 年北苗海域各測站修補前 風力統計量統計表



表1.2.1 2018年北苗海域 X 站修補前風速及風向重要統計量統計表

序 號	日期 (年/月)	觀測 點數	風速 平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最大風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	2017/12	60( 8%)	7.2	4.7/NE	14.8/NE	20.0	41.7	30.0	8.3	63.3	5.0	23.3	8.3	NE /43.3%
2	2018/01													
3	2018/02													
4	2018/03	674( 91%)	6.4	4.2/NE	17.5/NNE	27.9	36.1	34.0	2.1	50.6	27.2	8.6	13.6	NE /19.1%
5	2018/04	682( 95%)	4.8	2.4/ENE	16.9/NNE	45.3	34.3	19.1	1.3	34.9	38.1	13.8	13.2	NE /15.1%
6	2018/05	734( 99%)	4.7	.7/NW	15.1/ESE	48.8	29.8	21.0	.4	28.6	18.0	33.0	20.4	W /16.1%
7	2018/06	715( 99%)	5.7	2.0/NNE	14.7/NNE	31.9	38.9	29.0	.3	49.0	16.1	27.0	8.0	NNE/20.3%
8	2018/07	734( 99%)	6.4	1.1/S	22.3/WSW	28.2	35.1	34.5	2.2	19.3	31.7	37.2	11.7	SW /16.3%
9	2018/08	741(100%)	4.2	.6/W	12.4/WSW	46.4	40.9	12.7	.0	21.7	26.0	35.5	16.7	SW /10.3%
10	2018/09	711( 99%)	6.6	3.3/NE	16.5/ESE	30.5	33.1	32.3	4.1	42.8	25.2	17.9	14.2	NNE/15.6%
11	2018/10	733( 99%)	7.5	6.7/NE	15.9/N	10.6	41.9	45.4	2.0	84.2	7.6	3.3	4.9	NE /42.6%
12	2018/11	711( 99%)	7.0	5.4/NE	15.3/NE	20.3	37.1	41.1	1.5	67.9	16.7	7.5	7.9	NE /33.9%
13	2018/冬	60( 3%)	7.2	4.7/NE	14.8/NE	20.0	41.7	30.0	8.3	63.3	5.0	23.3	8.3	NE /43.3%
14	2018/春	2090( 95%)	5.3	2.1/NE	17.5/NNE	40.9	33.3	24.5	1.2	37.8	27.5	18.9	15.9	NE /16.5%
15	2018/夏	2190( 99%)	5.4	.2/NE	22.3/WSW	35.6	38.3	25.3	.8	29.8	24.7	33.3	12.2	SW /12.1%
16	2018/秋	2155( 99%)	7.0	5.2/NE	16.5/ESE	20.4	37.4	39.7	2.6	65.2	16.4	9.5	9.0	NE /30.0%
17	2018/年	6495( 74%)	5.9	2.5/NE	22.3/WSW	32.1	36.4	29.9	1.6	44.4	22.7	20.6	12.3	NE /18.9%

1-2-1

表1.2.2 2018年北苗海域 Y 站修補前風速及風向重要統計量統計表

序 號	日期 (年/月)	觀測 點數	風速 平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最大風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	2017/12	728( 98%)	10.4	9.9/NE	17.9/NE	11.1	14.4	51.0	23.5	88.2	5.9	3.4	2.5	NE /72.5%
2	2018/01	724( 97%)	9.0	8.3/NE	16.8/NE	10.1	22.4	59.9	7.6	87.4	5.4	4.3	2.9	NE /52.3%
3	2018/02	629( 94%)	8.9	8.1/NE	16.5/NE	14.3	26.2	48.0	11.4	83.9	5.7	4.6	5.7	NE /59.8%
4	2018/03	708( 95%)	6.1	4.6/NE	15.3/NE	32.3	34.5	29.9	3.2	59.3	20.1	7.6	13.0	NE /29.2%
5	2018/04	626( 87%)	5.2	2.6/NE	15.5/NE	43.3	29.2	25.9	1.6	45.0	18.5	19.8	16.6	NE /23.2%
6	2018/05	467( 63%)	5.7	2.7/WSW	12.9/NE	23.8	49.0	27.2	.0	23.6	5.4	57.8	13.3	WSW/25.5%
7	2018/06	668( 93%)	6.3	1.1/NNE	13.6/NE	22.8	42.8	34.4	.0	48.5	12.1	36.7	2.7	NE /22.2%
8	2018/07	672( 90%)	5.6	2.5/WSW	13.6/NW	33.3	39.6	27.1	.0	18.0	13.8	47.8	20.4	SW /20.7%
9	2018/08	691( 93%)	4.8	2.1/WSW	11.5/SW	36.2	43.8	20.0	.0	16.9	19.4	49.9	13.7	SW /21.3%
10	2018/09	627( 87%)	6.3	3.2/NE	16.9/NE	33.3	29.8	33.5	3.3	47.0	10.0	28.1	14.8	NE /27.8%
11	2018/10	736( 99%)	8.8	8.4/NE	18.2/ENE	7.7	27.2	59.1	6.0	92.1	4.9	.7	2.3	NE /66.8%
12	2018/11	651( 90%)	7.0	6.3/NE	17.7/NE	20.9	37.9	35.0	6.1	79.4	9.4	4.8	6.5	NE /53.8%
13	2018/冬	2081( 96%)	9.4	8.8/NE	17.9/NE	11.7	20.8	53.2	14.3	86.6	5.7	4.1	3.6	NE /61.7%
14	2018/春	1801( 82%)	5.7	2.2/NNE	15.5/NE	33.9	36.4	27.8	1.8	45.1	15.7	24.9	14.3	NE /22.4%
15	2018/夏	2031( 92%)	5.6	1.3/WSW	13.6/NE	30.8	42.1	27.1	.0	27.7	15.2	44.9	12.3	SW /18.6%
16	2018/秋	2014( 92%)	7.4	6.1/NE	18.2/ENE	20.0	31.5	43.3	5.2	74.0	7.9	10.5	7.5	NE /50.4%
17	2018/年	7927( 91%)	7.1	4.1/NE	18.2/ENE	23.8	32.5	38.2	5.5	58.9	11.0	20.9	9.3	NE /36.5%

1-2-2

表1.2.3 2018年北苗海域 E 站修補前風速及風向重要統計量統計表

序 號	日期 (年/月)	觀測 點數	風速 平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最大風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	2017/12	741(100%)	2.0	1.2/NE	5.9/NNE	87.0	13.0	.0	.0	61.1	28.1	4.7	6.1	NNE/25.5%
2	2018/01	741(100%)	1.9	.8/ENE	5.3/SSE	86.5	13.5	.0	.0	46.2	33.6	6.2	14.0	NNE/18.1%
3	2018/02	672(100%)	1.8	.9/NE	5.2/SSE	89.3	10.7	.0	.0	58.8	22.0	3.7	15.5	NNE/26.5%
4	2018/03	741(100%)	1.9	.7/E	5.9/NNE	87.3	12.7	.0	.0	36.2	45.5	3.0	15.4	SE /16.7%
5	2018/04	720(100%)	1.6	.5/SE	6.4/NNE	94.4	5.6	.0	.0	24.3	51.1	5.3	19.3	SSE/21.0%
6	2018/05	744(100%)	1.3	.3/NNW	4.3/SSE	96.4	3.6	.0	.0	30.8	28.8	5.4	35.1	NW /19.9%
7	2018/06	720(100%)	1.4	.2/ENE	5.3/NNE	94.0	6.0	.0	.0	36.9	35.0	8.9	19.2	N /21.7%
8	2018/07	744(100%)	1.8	.4/SSE	6.9/W	87.4	12.6	.0	.0	17.5	44.1	15.3	23.1	SE /16.4%
9	2018/08	734( 99%)	1.2	.1/ENE	3.5/SSE	99.2	.8	.0	.0	25.3	40.6	8.4	25.6	N /17.0%
10	2018/09	720(100%)	1.6	.6/ENE	5.8/SE	93.2	6.8	.0	.0	35.7	42.8	4.3	17.2	N /15.8%
11	2018/10	739( 99%)	1.4	.9/NE	5.2/N	95.9	4.1	.0	.0	62.2	25.0	4.6	8.1	N /17.7%
12	2018/11	720(100%)	1.6	.7/ENE	4.3/NNE	92.4	7.6	.0	.0	52.5	33.2	3.9	10.4	N /20.6%
13	2018/冬	2154(100%)	1.9	.9/NE	5.9/NNE	87.6	12.4	.0	.0	55.2	28.1	4.9	11.7	NNE/23.3%
14	2018/春	2205(100%)	1.6	.3/E	6.4/NNE	92.7	7.3	.0	.0	30.5	41.7	4.5	23.3	SSE/14.8%
15	2018/夏	2198(100%)	1.5	.2/ESE	6.9/W	93.5	6.5	.0	.0	26.5	39.9	10.9	22.7	N /16.5%
16	2018/秋	2179(100%)	1.5	.7/ENE	5.8/SE	93.9	6.1	.0	.0	50.3	33.6	4.3	11.9	N /18.0%
17	2018/年	8736(100%)	1.6	.5/ENE	6.9/W	91.9	8.1	.0	.0	40.5	35.9	6.2	17.4	N /15.3%

1-2-3

表1.2.4 2018年北苗海域 W 站修補前風速及風向重要統計量統計表

序 號	日期 (年/月)	觀測 點數	風速 平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最大風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	2017/12	162( 22%)	8.3	7.6/NE	14.2/NNE	4.9	38.9	54.9	1.2	88.9	9.9	.6	.6	NE /66.7%
2	2018/01	562( 76%)	6.4	5.4/NE	13.4/NNE	14.2	54.8	31.0	.0	80.6	13.0	2.8	3.6	NE /43.8%
3	2018/02	227( 34%)	7.2	6.4/NE	13.8/ESE	9.7	46.3	43.6	.4	87.2	10.1	.4	2.2	NE /43.6%
4	2018/03	597( 80%)	5.6	3.9/ENE	14.4/NE	27.0	49.6	23.3	.2	51.4	32.5	5.0	11.1	NE /20.4%
5	2018/04	682( 95%)	4.4	2.2/E	14.6/ESE	40.0	49.4	10.4	.1	30.4	48.2	8.2	13.2	SE /19.6%
6	2018/05	705( 95%)	4.2	.6/W	14.4/W	50.2	36.0	13.6	.1	24.0	26.2	25.0	24.8	W /16.9%
7	2018/06	689( 96%)	4.9	1.1/ENE	13.7/WSW	35.1	48.5	16.4	.0	43.4	24.8	21.8	10.0	NE /20.6%
8	2018/07	696( 94%)	6.3	1.5/S	22.9/WSW	28.7	35.8	30.6	4.9	21.1	32.5	33.8	12.6	E /15.9%
9	2018/08	702( 94%)	4.1	.7/SW	12.3/W	46.9	43.4	9.7	.0	22.1	33.8	29.8	14.4	SE /12.4%
10	2018/09	668( 93%)	5.5	2.5/ENE	17.4/ESE	32.6	41.3	25.0	1.0	43.9	25.7	15.7	14.7	NE /14.4%
11	2018/10	705( 95%)	5.6	4.8/NE	12.5/ENE	18.6	62.4	19.0	.0	77.2	16.2	3.0	3.7	NE /34.2%
12	2018/11	678( 94%)	5.4	4.0/ENE	12.8/E	25.4	55.6	19.0	.0	64.9	21.5	7.1	6.5	NE /32.9%
13	2018/冬	951( 44%)	6.9	6.0/NE	14.2/NNE	11.6	50.1	38.1	.3	83.6	11.8	1.9	2.7	NE /47.6%
14	2018/春	1984( 90%)	4.7	1.7/ENE	14.6/ESE	39.7	44.7	15.4	.2	34.4	35.7	13.2	16.7	NE /14.1%
15	2018/夏	2087( 95%)	5.1	.5/SSE	22.9/WSW	36.9	42.5	18.9	1.6	28.8	30.4	28.5	12.4	SW /10.9%
16	2018/秋	2051( 94%)	5.5	3.8/ENE	17.4/ESE	25.4	53.3	21.0	.3	62.3	21.1	8.5	8.2	NE /27.3%
17	2018/年	7073( 81%)	5.3	2.3/ENE	22.9/WSW	31.0	47.3	21.1	.7	47.4	26.7	14.8	11.1	NE /20.9%

1-2-4



表1.2.5 2018年北苗海域 P 站修補前風速及風向重要統計量統計表

序 號	日期 (年/月)	觀測 點數	風速 平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最大風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	2017/12	562( 76%)	6.4	6.0/ENE	13.6/ENE	20.8	40.2	39.0	.0	84.5	8.2	4.3	3.0	ENE/53.4%
2	2018/01	708( 95%)	5.1	4.8/ENE	11.5/ENE	26.8	58.3	14.8	.0	86.7	8.2	2.8	2.3	ENE/51.0%
3	2018/02	656( 98%)	4.6	4.3/ENE	10.5/ENE	37.8	49.2	13.0	.0	82.8	7.8	4.3	5.2	ENE/49.2%
4	2018/03	704( 95%)	3.4	2.6/ENE	10.4/ENE	59.2	34.2	6.5	.0	58.2	25.6	5.3	10.9	ENE/29.8%
5	2018/04	691( 96%)	2.9	1.4/ENE	12.2/E	69.2	24.9	5.9	.0	41.7	27.5	14.8	16.1	ENE/22.0%
6	2018/05	465( 63%)	3.6	1.9/WSW	11.8/WSW	50.8	42.2	7.1	.0	23.7	11.0	44.3	21.1	W /26.0%
7	2018/06	682( 95%)	3.6	.3/SE	11.3/WSW	52.1	41.6	6.3	.0	49.7	14.7	30.5	5.1	ENE/23.6%
8	2018/07	668( 90%)	3.6	1.8/WSW	13.4/WSW	60.5	26.2	13.3	.0	22.9	19.8	38.6	18.7	WSW/17.4%
9	2018/08	722( 97%)	3.1	1.5/SW	11.1/WSW	66.9	28.0	5.1	.0	16.6	29.1	38.8	15.5	WSW/15.2%
10	2018/09	664( 92%)	3.8	1.6/ENE	11.7/NE	50.8	40.5	8.7	.0	47.9	14.6	21.1	16.4	ENE/23.0%
11	2018/10	743(100%)	5.4	5.2/ENE	13.5/ENE	22.2	60.6	17.2	.0	91.9	5.0	1.3	1.7	ENE/58.7%
12	2018/11	672( 93%)	4.1	3.7/ENE	13.1/ENE	46.3	44.2	9.5	.0	79.3	11.9	3.6	5.2	ENE/47.2%
13	2018/冬	1926( 89%)	5.3	5.0/ENE	13.6/ENE	28.8	49.9	21.2	.0	84.7	8.0	3.7	3.5	ENE/51.1%
14	2018/春	1860( 84%)	3.3	1.1/ENE	12.2/E	60.8	32.7	6.5	.0	43.4	22.6	18.5	15.4	ENE/22.3%
15	2018/夏	2072( 94%)	3.4	1.1/SW	13.4/WSW	59.9	31.9	8.2	.0	29.5	21.3	36.0	13.1	WSW/14.5%
16	2018/秋	2079( 95%)	4.4	3.5/ENE	13.5/ENE	39.1	48.9	12.0	.0	73.8	10.3	8.4	7.6	ENE/43.6%
17	2018/年	7937( 91%)	4.1	2.1/ENE	13.6/ENE	47.1	40.9	11.9	.0	57.8	15.5	16.8	9.9	ENE/32.2%

1-2-5

表1.2.6 2018年北苗海域 Q 站修補前風速及風向重要統計量統計表

序號	日期 (年/月)	觀測 點數	風速 平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最大風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	2017/12	560( 75%)	9.4	9.1/NE	21.1/NE	19.8	16.8	41.6	21.8	84.3	7.9	3.6	4.3	NE /71.3%
2	2018/01	703( 95%)	8.1	7.8/NE	21.5/NE	17.2	27.2	46.8	8.8	85.6	8.5	2.0	3.8	NE /63.4%
3	2018/02	653( 97%)	7.4	7.0/NE	17.0/NE	26.6	24.2	40.9	8.3	78.6	11.8	2.9	6.7	NE /58.8%
4	2018/03	707( 95%)	4.8	3.9/NE	17.7/NE	51.9	22.8	21.1	4.2	54.9	27.6	6.5	11.0	NE /31.0%
5	2018/04	695( 97%)	3.4	1.8/NE	15.6/NE	63.6	23.7	12.1	.6	38.6	28.1	19.0	14.4	ENE/16.5%
6	2018/05	463( 62%)	3.5	.9/SSW	12.7/NE	53.3	40.4	6.3	.0	21.4	12.7	58.7	7.1	S /23.1%
7	2018/06	685( 95%)	4.4	2.0/NE	15.3/NE	46.0	36.1	16.6	1.3	45.8	18.5	31.8	3.8	NE /27.4%
8	2018/07	693( 93%)	3.1	.5/SSW	13.9/NE	61.8	32.9	5.1	.3	16.9	26.4	39.4	17.3	S /21.6%
9	2018/08	723( 97%)	2.6	.6/SSW	12.4/NE	68.7	29.3	1.9	.0	13.1	37.1	35.8	14.0	S /21.4%
10	2018/09	665( 92%)	5.0	3.4/NE	17.0/NE	50.4	24.2	18.8	6.6	47.1	20.5	19.8	12.6	NE /28.3%
11	2018/10	743(100%)	7.9	7.7/NE	18.9/ENE	15.5	31.6	47.8	5.1	90.2	6.6	.4	2.8	NE /66.4%
12	2018/11	668( 93%)	5.9	5.5/NE	18.2/NE	34.1	34.3	26.6	4.9	73.8	16.6	3.0	6.6	NE /50.9%
13	2018/冬	1916( 89%)	8.3	7.9/NE	21.5/NE	21.2	23.1	43.3	12.4	82.8	9.4	2.8	5.0	NE /64.1%
14	2018/春	1865( 85%)	4.0	1.9/NE	17.7/NE	56.6	27.5	14.0	1.8	40.5	24.1	24.1	11.3	NE /20.2%
15	2018/夏	2101( 95%)	3.3	.4/E	15.3/NE	59.0	32.7	7.8	.5	25.0	27.5	35.7	11.8	S /18.8%
16	2018/秋	2076( 95%)	6.3	5.6/NE	18.9/ENE	32.7	30.1	31.7	5.5	71.1	14.3	7.5	7.2	NE /49.2%
17	2018/年	7958( 91%)	5.4	3.9/NE	21.5/NE	42.5	28.5	24.0	5.0	54.6	18.9	17.7	8.8	NE /36.4%

1-2-6

表1.2.7 2018年北苗海域 H 站修補前風速及風向重要統計量統計表

序號	日期 (年/月)	觀測 點數	風速 平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最大風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	2017/12	744(100%)	7.8	7.4/ENE	14.3/ENE	11.6	31.5	56.9	.1	91.1	4.0	3.8	1.1	ENE/51.3%
2	2018/01	744(100%)	6.3	5.8/NE	13.3/NNE	17.3	48.4	34.3	.0	87.2	7.0	2.4	3.4	NE /47.2%
3	2018/02	672(100%)	5.9	5.3/NE	12.7/NE	24.4	42.6	33.0	.0	85.4	5.5	4.5	4.6	NNE/36.0%
4	2018/03	744(100%)	4.2	3.1/NNE	11.7/NNE	47.8	36.7	15.5	.0	65.7	14.2	8.7	11.3	NNE/28.1%
5	2018/04	720(100%)	3.3	1.3/NE	10.8/NNE	58.8	36.8	4.4	.0	46.5	20.0	20.4	13.1	NE /18.6%
6	2018/05	744(100%)	4.0	1.3/WSW	11.5/WSW	44.5	46.6	8.9	.0	27.3	6.0	54.4	12.2	WSW/19.8%
7	2018/06	720(100%)	4.5	.6/NE	12.1/SW	38.3	48.5	13.2	.0	53.6	6.9	36.0	3.5	NE /25.3%
8	2018/07	744(100%)	4.7	1.4/WSW	15.0/SW	41.3	38.3	20.2	.3	27.8	13.4	43.8	14.9	SW /20.6%
9	2018/08	744(100%)	3.4	1.1/WSW	10.6/WSW	58.5	34.9	6.6	.0	25.0	16.4	45.2	13.4	WSW/13.8%
10	2018/09	720(100%)	4.7	2.2/NE	12.2/NE	41.8	36.5	21.7	.0	49.2	8.5	28.8	13.6	NE /24.0%
11	2018/10	744(100%)	6.1	5.9/NE	14.1/NE	12.1	66.1	21.5	.3	93.1	2.8	1.6	2.4	NE /43.7%
12	2018/11	719(100%)	5.2	4.5/NE	13.6/NE	30.7	50.5	18.8	.0	78.4	9.0	7.5	5.0	NE /38.7%
13	2018/冬	2160(100%)	6.7	6.2/NE	14.3/ENE	17.5	40.7	41.7	.0	88.0	5.5	3.5	3.0	NE /39.5%
14	2018/春	2208(100%)	3.8	1.1/NNE	11.7/NNE	50.3	40.1	9.6	.0	46.5	13.4	27.9	12.2	NE /15.4%
15	2018/夏	2208(100%)	4.2	.7/WSW	15.0/SW	46.1	40.5	13.3	.1	35.3	12.3	41.7	10.7	SW /16.3%
16	2018/秋	2183(100%)	5.4	4.2/NE	14.1/NE	28.0	51.2	20.7	.1	73.8	6.7	12.5	7.0	NE /35.5%
17	2018/年	8759(100%)	5.0	2.7/NE	15.0/SW	35.6	43.1	21.2	.1	60.7	9.5	21.5	8.2	NE /26.0%

1-2-7

表1.2.8 2018年北苗海域 I 站修補前風速及風向重要統計量統計表

序號	日期 (年/月)	觀測 點數	風速 平均值 (m/s)	平均風 風速/風向 (m/s)/(來向)	最大風 風速/風向 (m/s)/(來向)	輕風 <3.3 (%)	和風 ~7.9 (%)	強風 ~13.8 (%)	疾風 >13.8 (%)	風向 N~E (%)	風向 E~S (%)	風向 S~W (%)	風向 W~N (%)	主要風向 方向/百分比
1	2017/12	728( 98%)	10.4	9.9/NE	17.9/NE	11.1	14.4	51.0	23.5	88.2	5.9	3.4	2.5	NE /72.5%
2	2018/01	724( 97%)	9.0	8.3/NE	16.8/NE	10.1	22.4	59.9	7.6	87.4	5.4	4.3	2.9	NE /52.3%
3	2018/02	629( 94%)	8.9	8.1/NE	16.5/NE	14.3	26.2	48.0	11.4	83.9	5.7	4.6	5.7	NE /59.8%
4	2018/03	708( 95%)	6.1	4.6/NE	15.3/NE	32.3	34.5	29.9	3.2	59.3	20.1	7.6	13.0	NE /29.2%
5	2018/04	626( 87%)	5.2	2.6/NE	15.5/NE	43.3	29.2	25.9	1.6	45.0	18.5	19.8	16.6	NE /23.2%
6	2018/05	467( 63%)	5.7	2.7/WSW	12.9/NE	23.8	49.0	27.2	.0	23.6	5.4	57.8	13.3	WSW/25.5%
7	2018/06	668( 93%)	6.3	1.1/NNE	13.6/NE	22.8	42.8	34.4	.0	48.5	12.1	36.7	2.7	NE /22.2%
8	2018/07	672( 90%)	5.6	2.5/WSW	13.6/NW	33.3	39.6	27.1	.0	18.0	13.8	47.8	20.4	SW /20.7%
9	2018/08	691( 93%)	4.8	2.1/WSW	11.5/SW	36.2	43.8	20.0	.0	16.9	19.4	49.9	13.7	SW /21.3%
10	2018/09	627( 87%)	6.3	3.2/NE	16.9/NE	33.3	29.8	33.5	3.3	47.0	10.0	28.1	14.8	NE /27.8%
11	2018/10	736( 99%)	8.8	8.4/NE	18.2/ENE	7.7	27.2	59.1	6.0	92.1	4.9	.7	2.3	NE /66.8%
12	2018/11	651( 90%)	7.0	6.3/NE	17.7/NE	20.9	37.9	35.0	6.1	79.4	9.4	4.8	6.5	NE /53.8%
13	2018/冬	2081( 96%)	9.4	8.8/NE	17.9/NE	11.7	20.8	53.2	14.3	86.6	5.7	4.1	3.6	NE /61.7%
14	2018/春	1801( 82%)	5.7	2.2/NNE	15.5/NE	33.9	36.4	27.8	1.8	45.1	15.7	24.9	14.3	NE /22.4%
15	2018/夏	2031( 92%)	5.6	1.3/WSW	13.6/NE	30.8	42.1	27.1	.0	27.7	15.2	44.9	12.3	SW /18.6%
16	2018/秋	2014( 92%)	7.4	6.1/NE	18.2/ENE	20.0	31.5	43.3	5.2	74.0	7.9	10.5	7.5	NE /50.4%
17	2018/年	7927( 91%)	7.1	4.1/NE	18.2/ENE	23.8	32.5	38.2	5.5	58.9	11.0	20.9	9.3	NE /36.5%

1-2-8

### 1.3 2018 年北苗海域**主要測站 1**(修補後)與 **其他測站**(修補前)風力歷線比較圖



# Wind Speed in Pei-Miao Seas of TPX0 at 2018

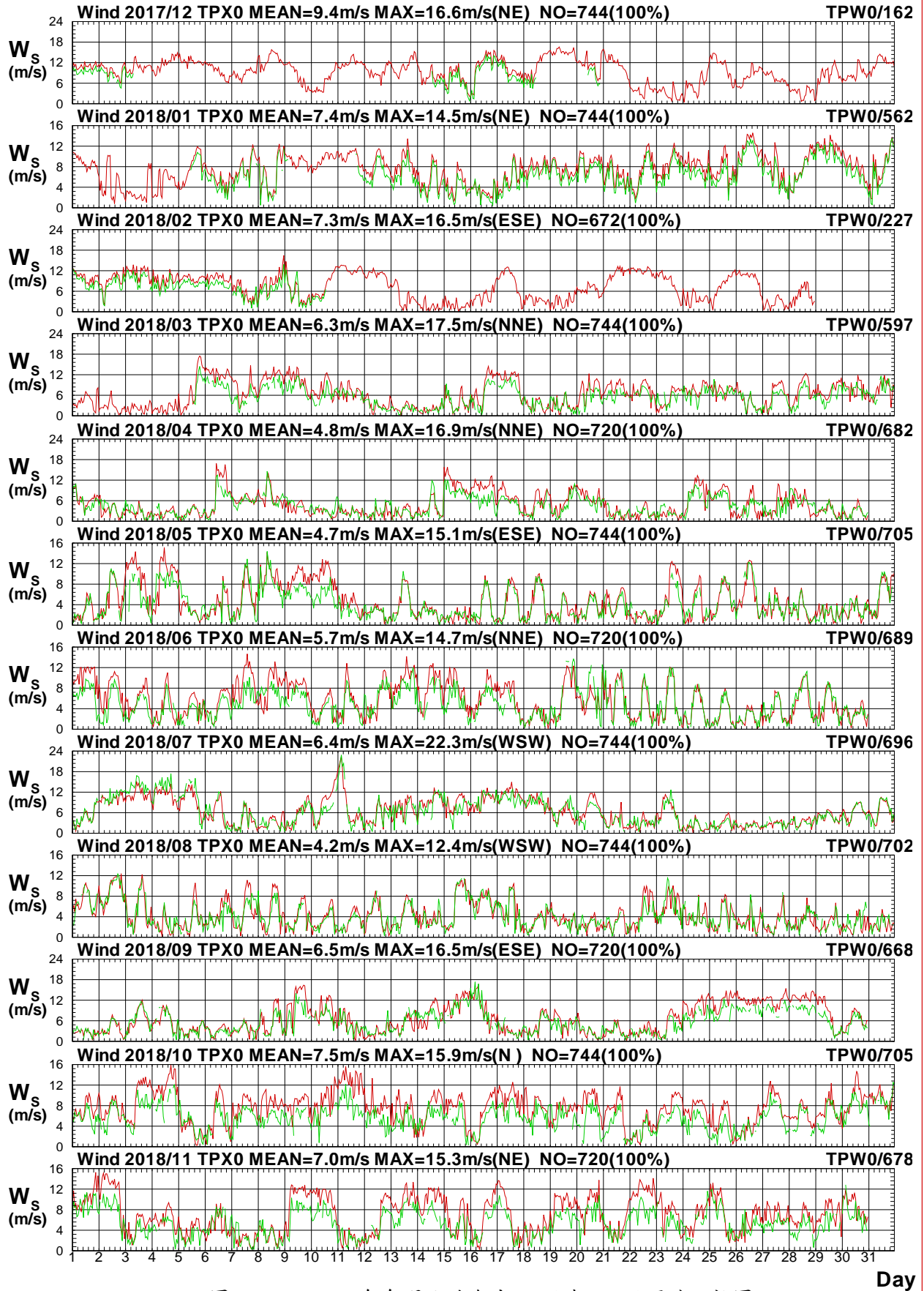


圖1.3.1a 2018年每月北苗海域 X 站與 W 站風速比較圖

W17CTPX0.1HA W17CTPW0.1HO W181TPX0.1HA W181TPW0.1HO W182TPX0.1HA W182TPW0.1HO  
 W183TPX0.1HA W183TPW0.1HO W184TPX0.1HA W184TPW0.1HO W185TPX0.1HA W185TPW0.1HO

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# Wind Direction in Pei-Miao Seas of TPX0 at 2018

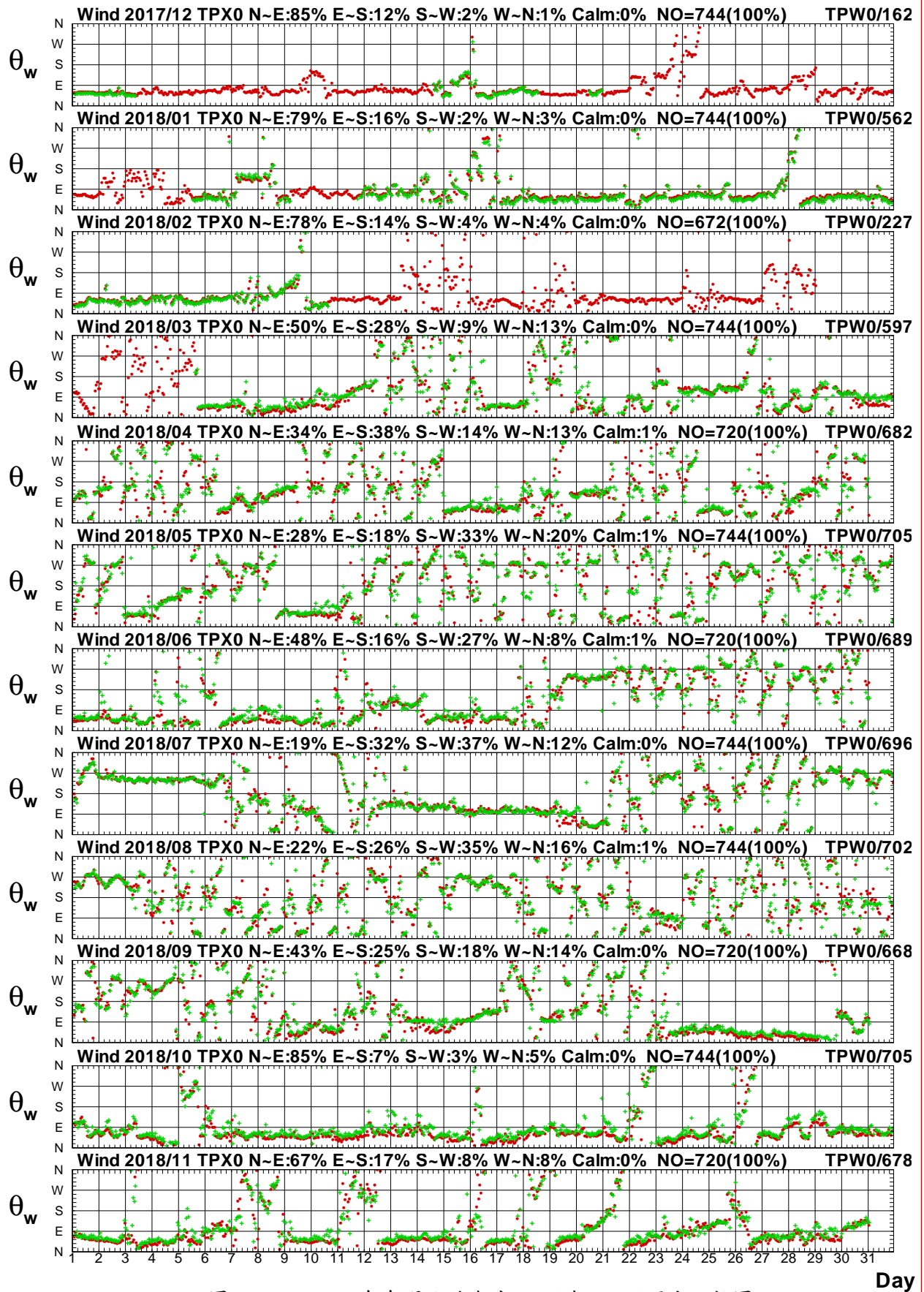


圖1.3.1b 2018年每月北苗海域 X 站與 W 站風向比較圖

W17CTPX0.1HA W17CTPW0.1HO W181TPX0.1HA W181TPW0.1HO W182TPX0.1HA W182TPW0.1HO  
 W183TPX0.1HA W183TPW0.1HO W184TPX0.1HA W184TPW0.1HO W185TPX0.1HA W185TPW0.1HO

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# Wind Speed in Pei-Miao Seas of TPX0 at 2018

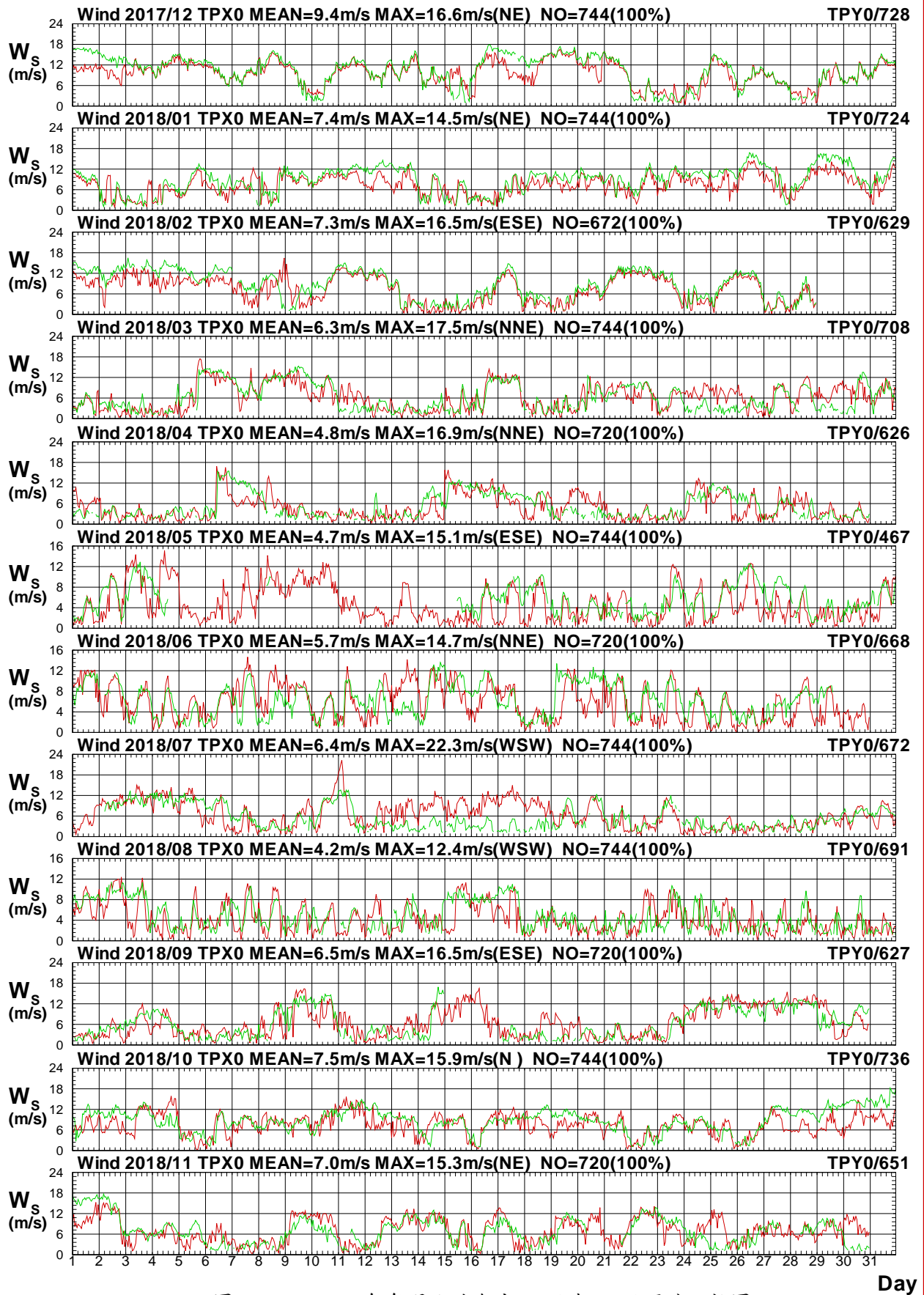


圖1.3.2a 2018年每月北苗海域 X 站與 Y 站風速比較圖

W17CTPX0.1HA W17CTPY0.1H0 W181TPX0.1HA W181TPY0.1H0 W182TPX0.1HA W182TPY0.1H0  
 W183TPX0.1HA W183TPY0.1H0 W184TPX0.1HA W184TPY0.1H0 W185TPX0.1HA W185TPY0.1H0

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# Wind Direction in Pei-Miao Seas of TPX0 at 2018

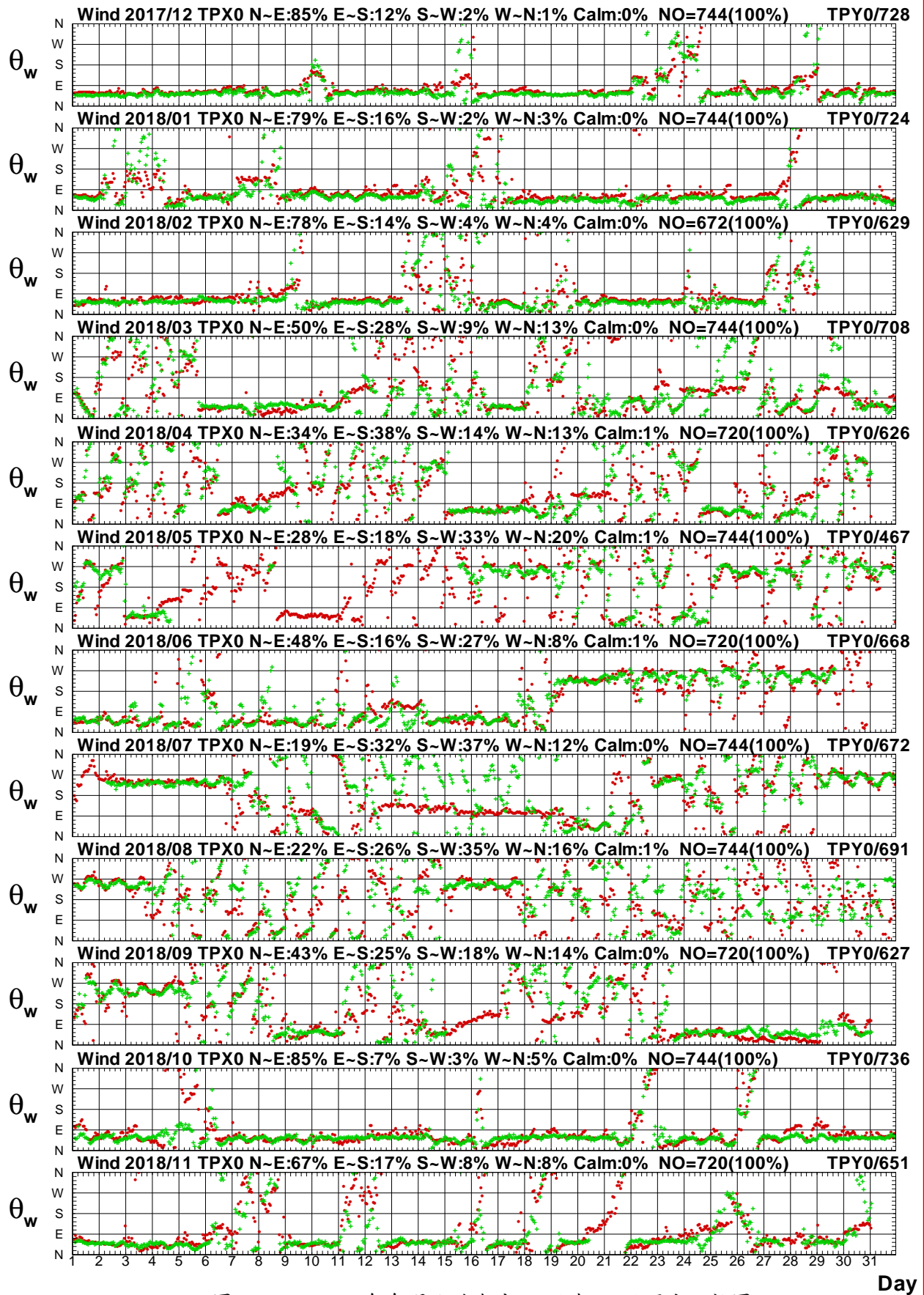


圖1.3.2b 2018年每月北苗海域 X 站與 Y 站風向比較圖

W17CTPX0.1HA W17CTPY0.1H0 W181TPX0.1HA W181TPY0.1H0 W182TPX0.1HA W182TPY0.1H0  
 W183TPX0.1HA W183TPY0.1H0 W184TPX0.1HA W184TPY0.1H0 W185TPX0.1HA W185TPY0.1H0

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# Wind Speed in Pei-Miao Seas of TPX0 at 2018

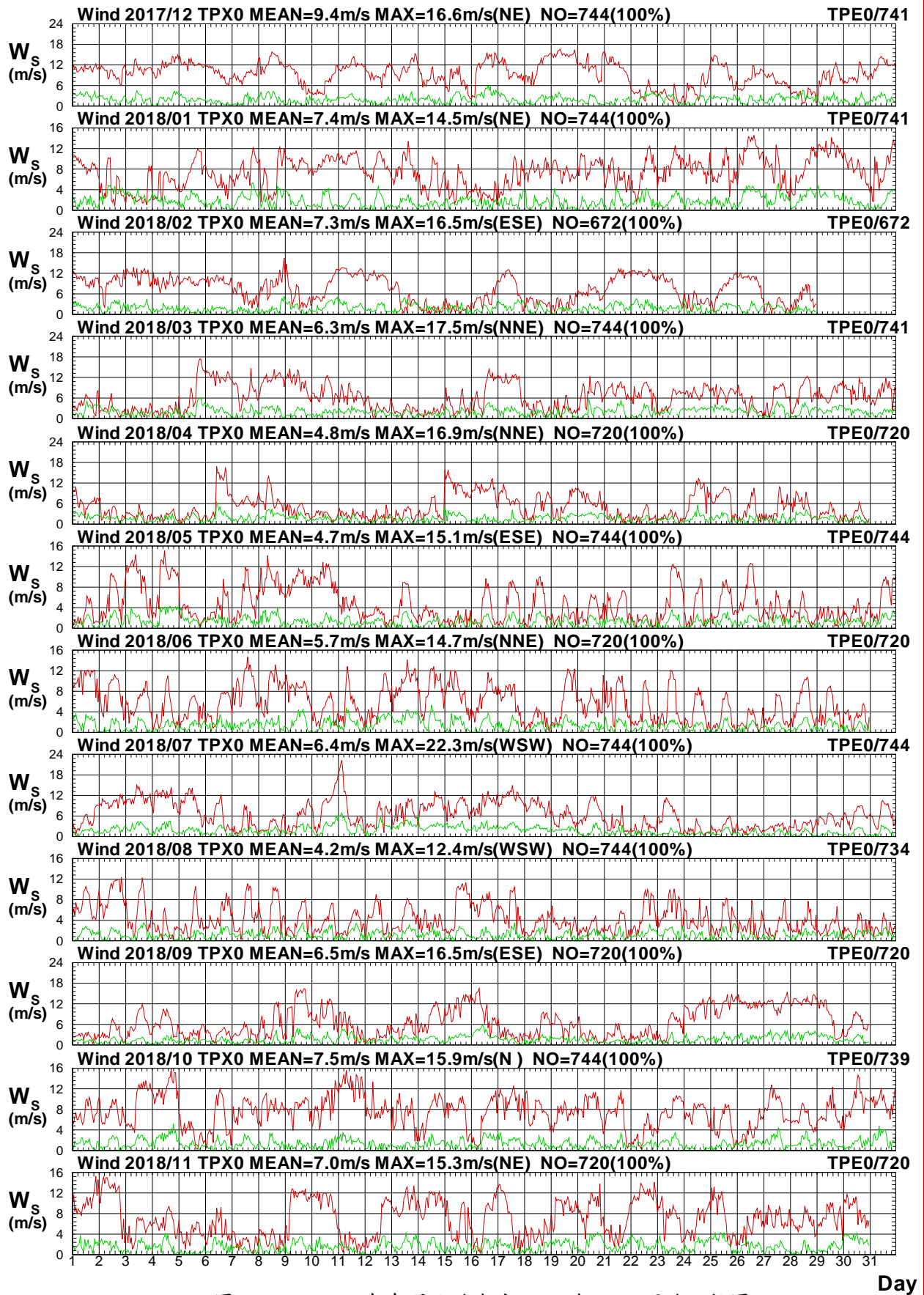


圖1.3.3a 2018年每月北苗海域 X 站與 E 站風速比較圖

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 W183TPX0.1HA W183TPE0.1H0 W184TPX0.1HA W184TPE0.1H0 W185TPX0.1HA W185TPE0.1H0

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# Wind Direction in Pei-Miao Seas of TPX0 at 2018

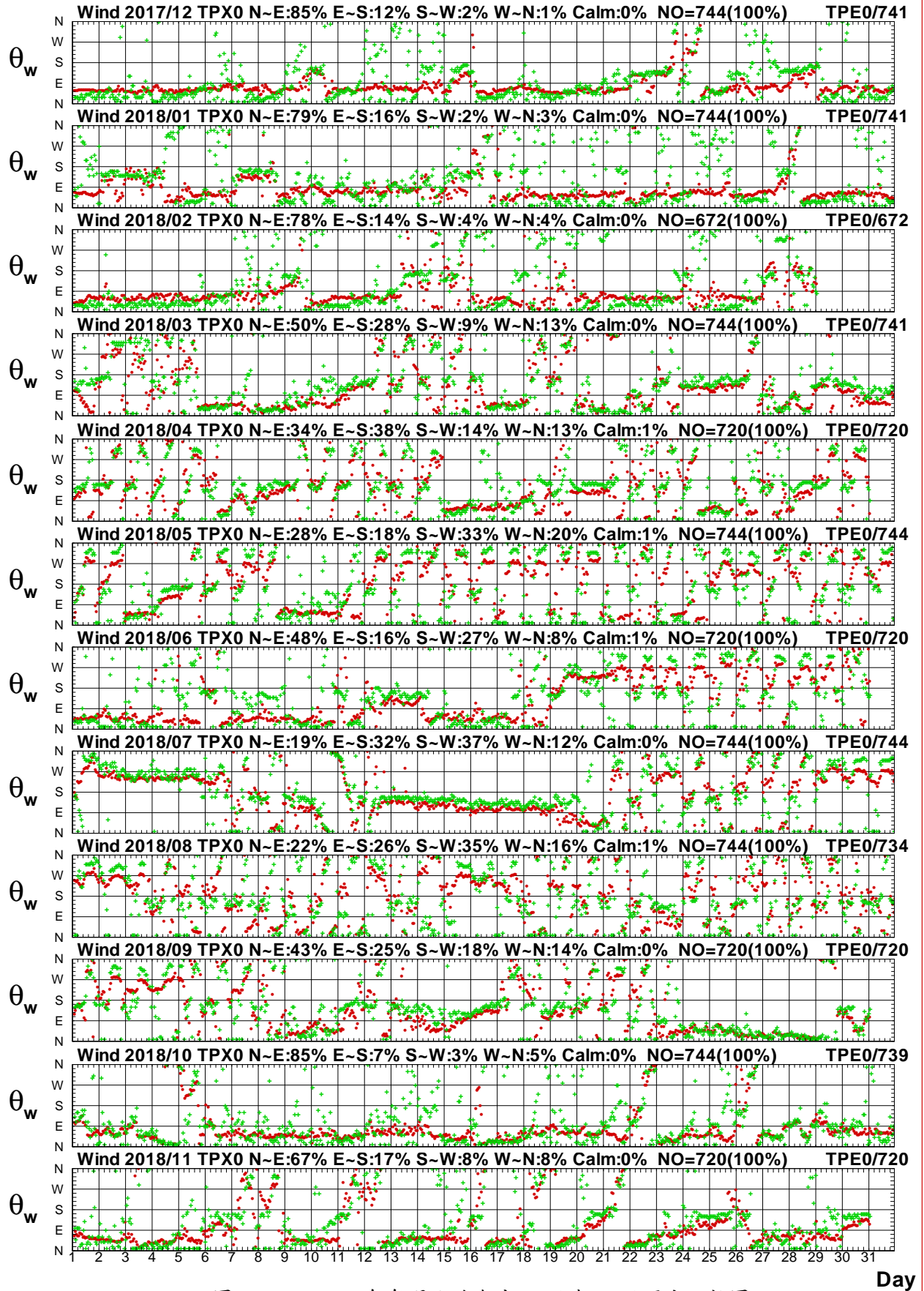


圖1.3.3b 2018年每月北苗海域 X 站與 E 站風向比較圖

W17CTPX0.1HA W17CTPE0.1H0 W181TPX0.1HA W181TPE0.1H0 W182TPX0.1HA W182TPE0.1H0  
 W183TPX0.1HA W183TPE0.1H0 W184TPX0.1HA W184TPE0.1H0 W185TPX0.1HA W185TPE0.1H0

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# Wind Speed in Pei-Miao Seas of TPX0 at 2018

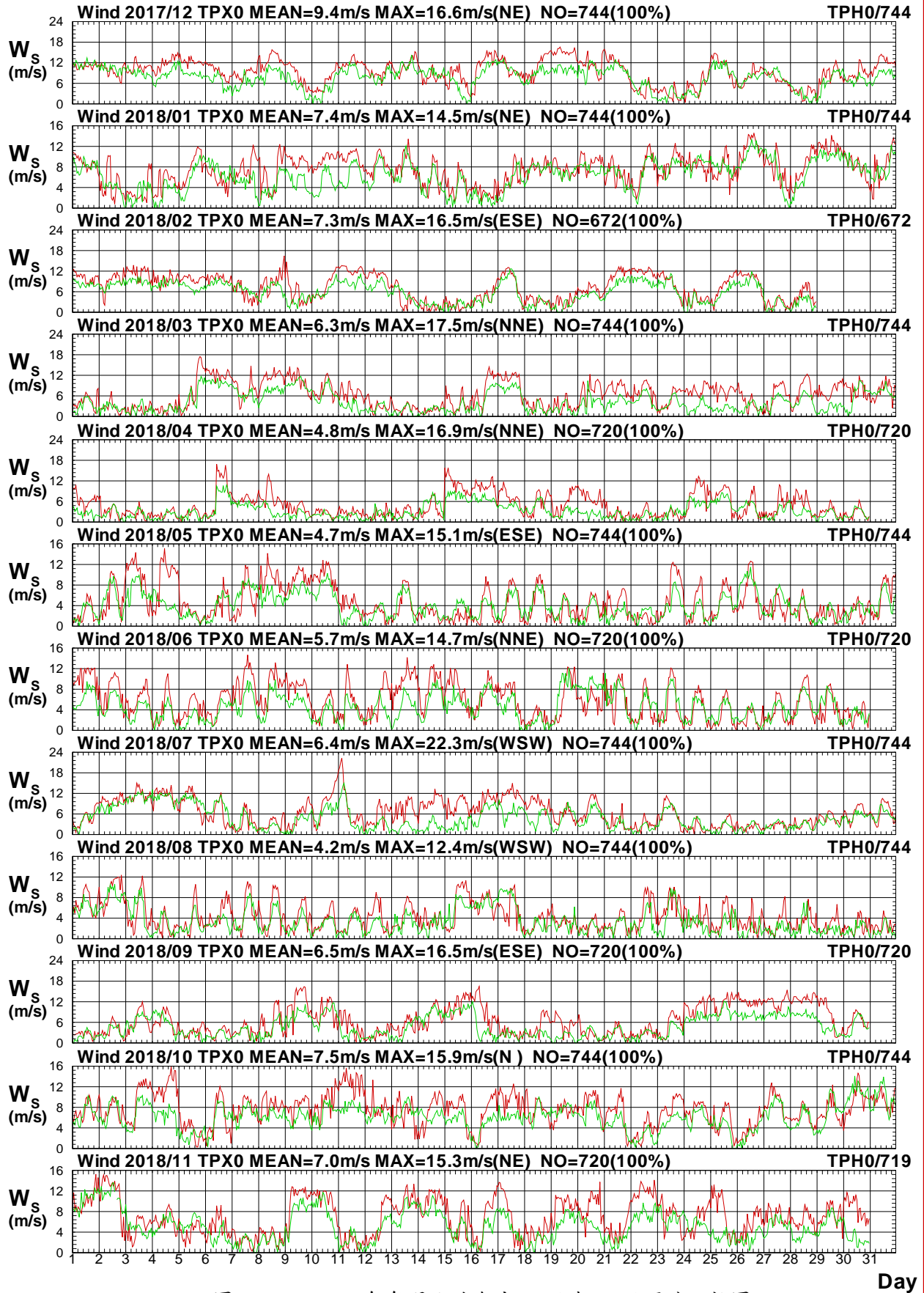


圖1.3.4a 2018年每月北苗海域 X 站與 H 站風速比較圖

W17CTPX0.1HA W17CTPH0.1H0 W181TPX0.1HA W181TPH0.1H0 W182TPX0.1HA W182TPH0.1H0  
 W183TPX0.1HA W183TPH0.1H0 W184TPX0.1HA W184TPH0.1H0 W185TPX0.1HA W185TPH0.1H0

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# Wind Direction in Pei-Miao Seas of TPX0 at 2018

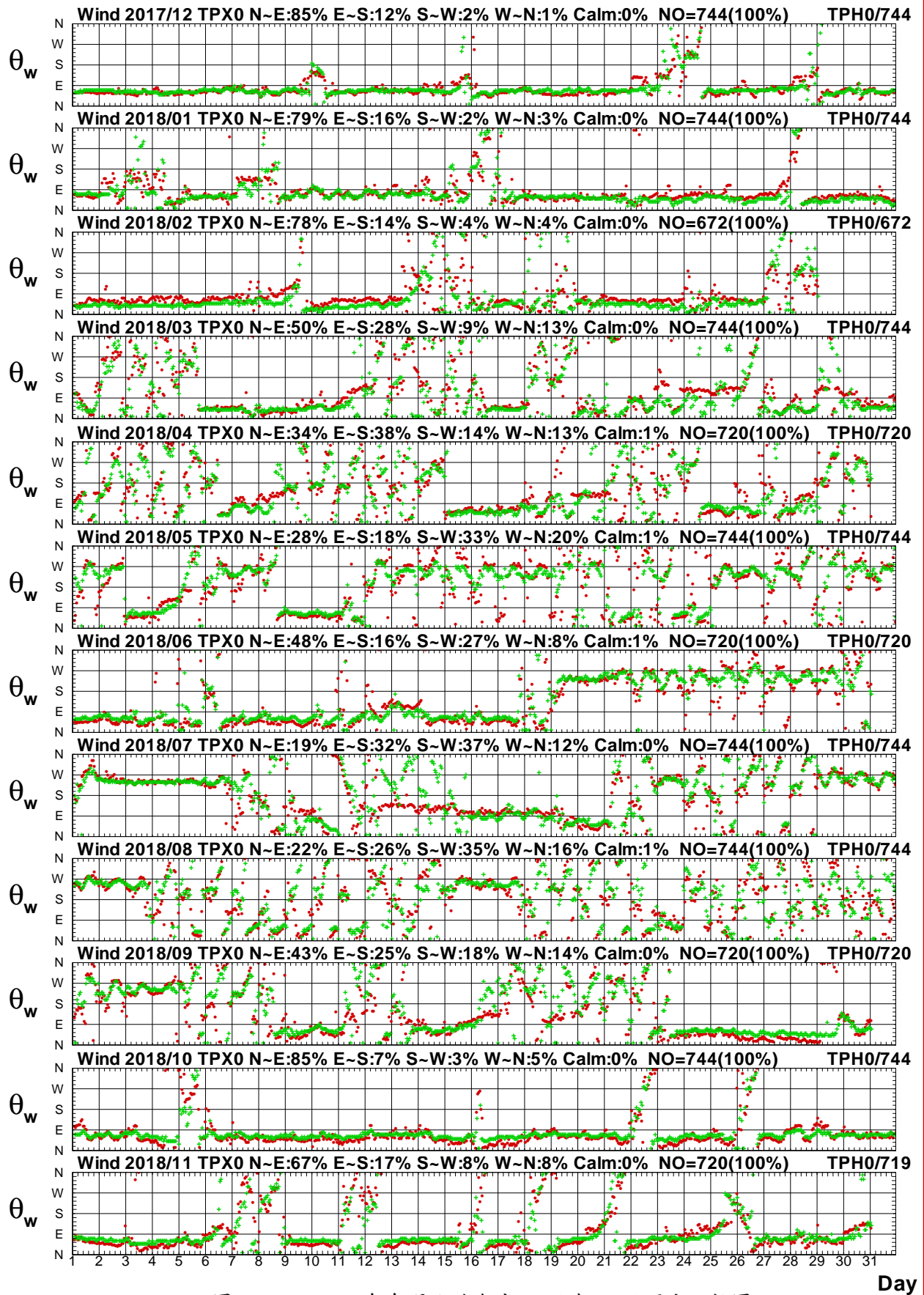


圖1.3.4b 2018年每月北苗海域 X 站與 H 站風向比較圖

W17CTPX0.1HA W17CTPH0.1H0 W181TPX0.1HA W181TPH0.1H0 W182TPX0.1HA W182TPH0.1H0  
 W183TPX0.1HA W183TPH0.1H0 W184TPX0.1HA W184TPH0.1H0 W185TPX0.1HA W185TPH0.1H0

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# Wind Speed in Pei-Miao Seas of TPX0 at 2018

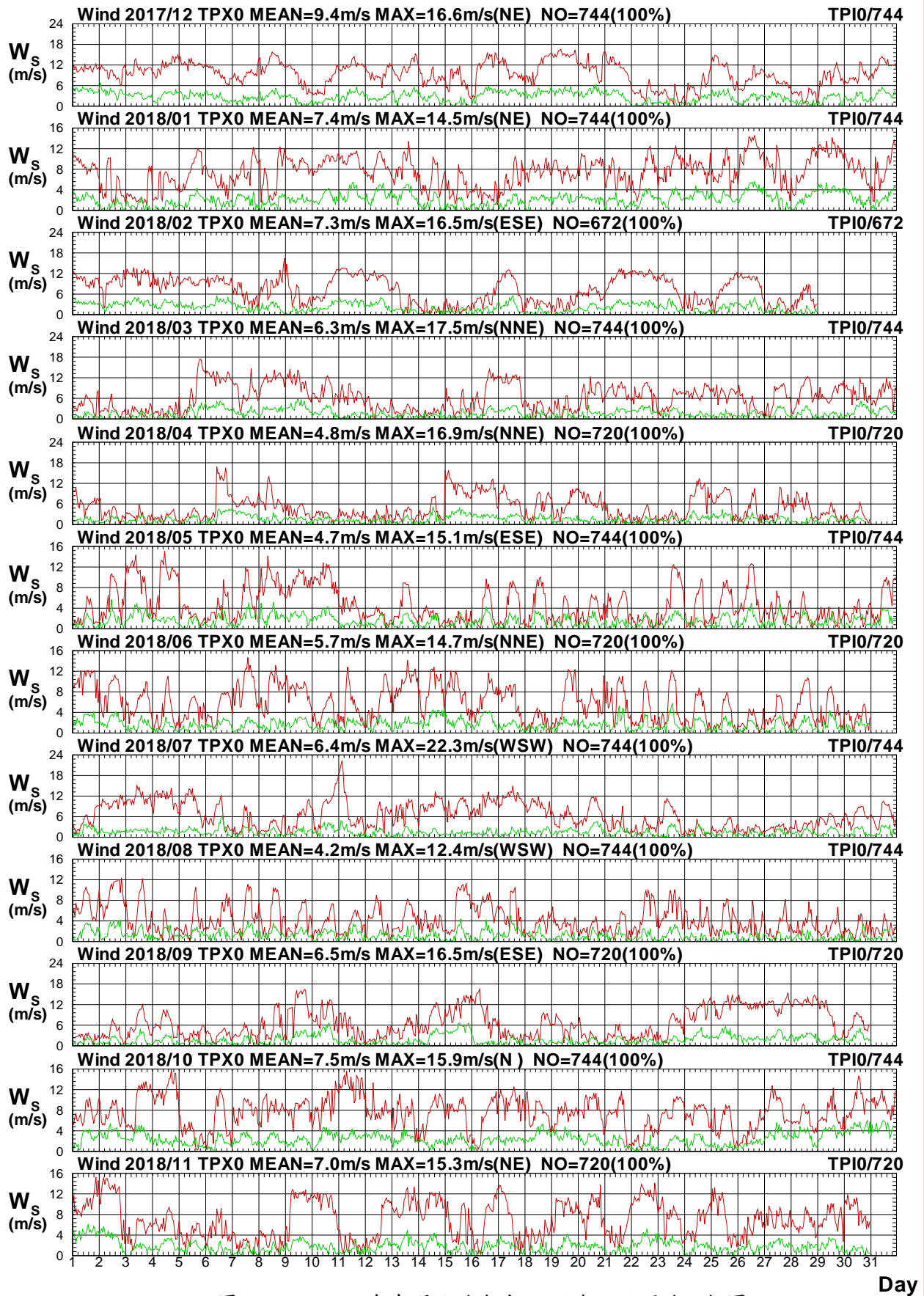


圖1.3.5a 2018年每月北苗海域 X 站與 I 站風速比較圖

W17CTPX0.1HA W17CTPI0.1H0 W181TPX0.1HA W181TPI0.1H0 W182TPX0.1HA W182TPI0.1H0  
W183TPX0.1HA W183TPI0.1H0 W184TPX0.1HA W184TPI0.1H0 W185TPX0.1HA W185TPI0.1H0

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# Wind Direction in Pei-Miao Seas of TPX0 at 2018

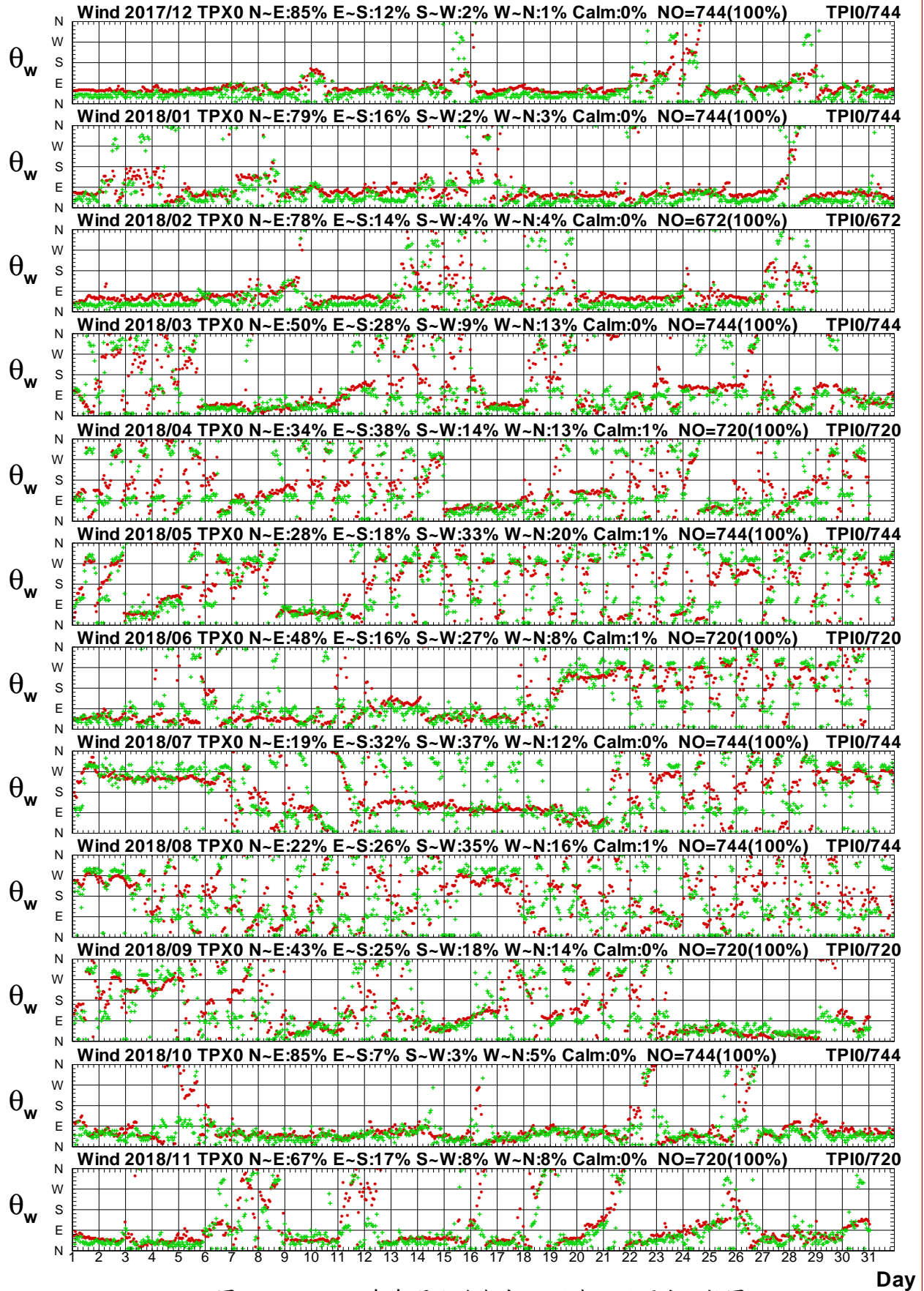


圖1.3.5b 2018年每月北苗海域 X 站與 I 站風向比較圖

W17CTPX0.1HA W17CTPI0.1H0 W181TPX0.1HA W181TPI0.1H0 W182TPX0.1HA W182TPI0.1H0  
 W183TPX0.1HA W183TPI0.1H0 W184TPX0.1HA W184TPI0.1H0 W185TPX0.1HA W185TPI0.1H0

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# Wind Speed in Pei-Miao Seas of TPX0 at 2018

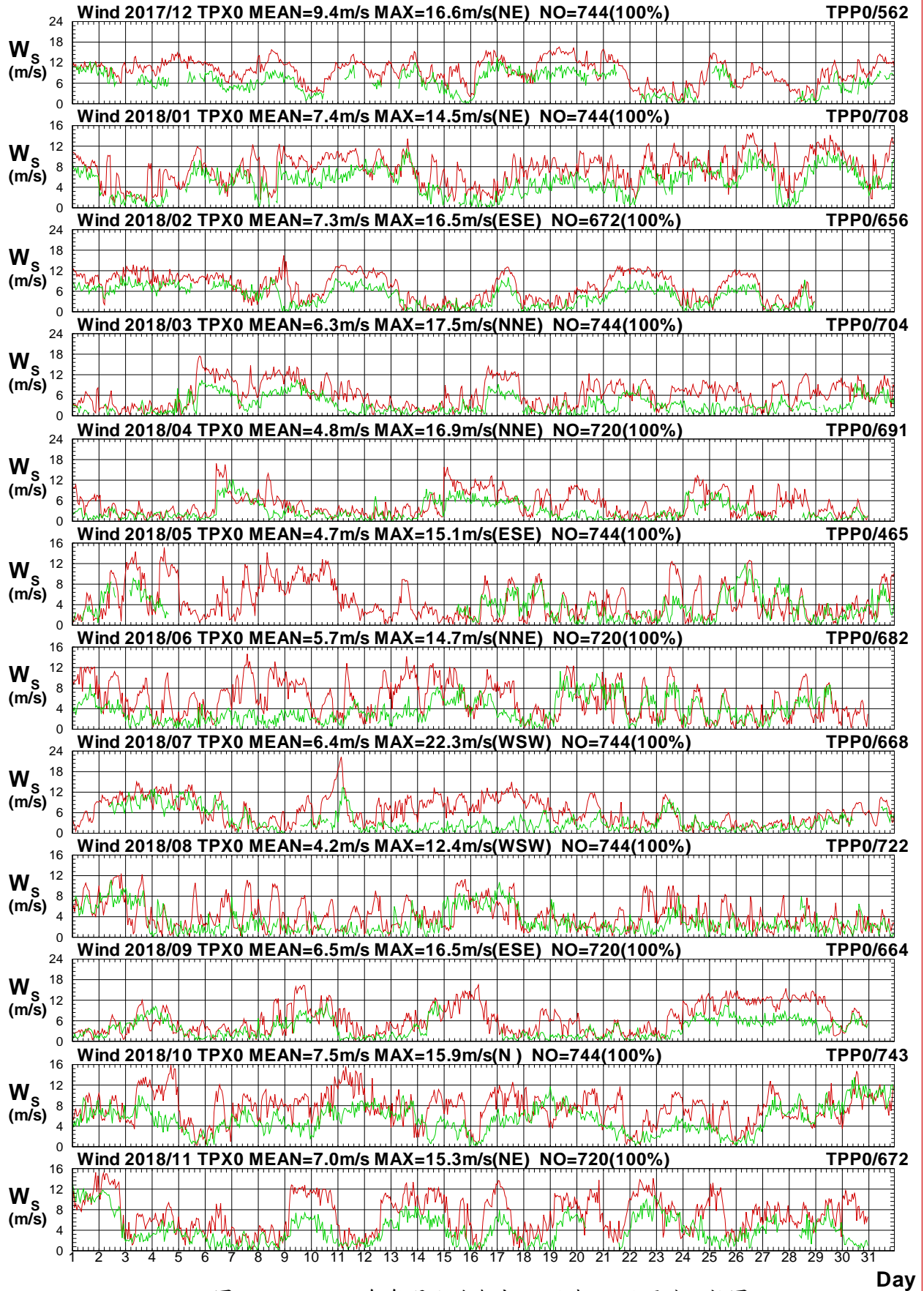


圖1.3.6a 2018年每月北苗海域 X 站與 P 站風速比較圖

W17CTPX0.1HA W17CTPP0.1H0 W181TPX0.1HA W181TPP0.1H0 W182TPX0.1HA W182TPP0.1H0  
 W183TPX0.1HA W183TPP0.1H0 W184TPX0.1HA W184TPP0.1H0 W185TPX0.1HA W185TPP0.1H0

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# Wind Direction in Pei-Miao Seas of TPX0 at 2018

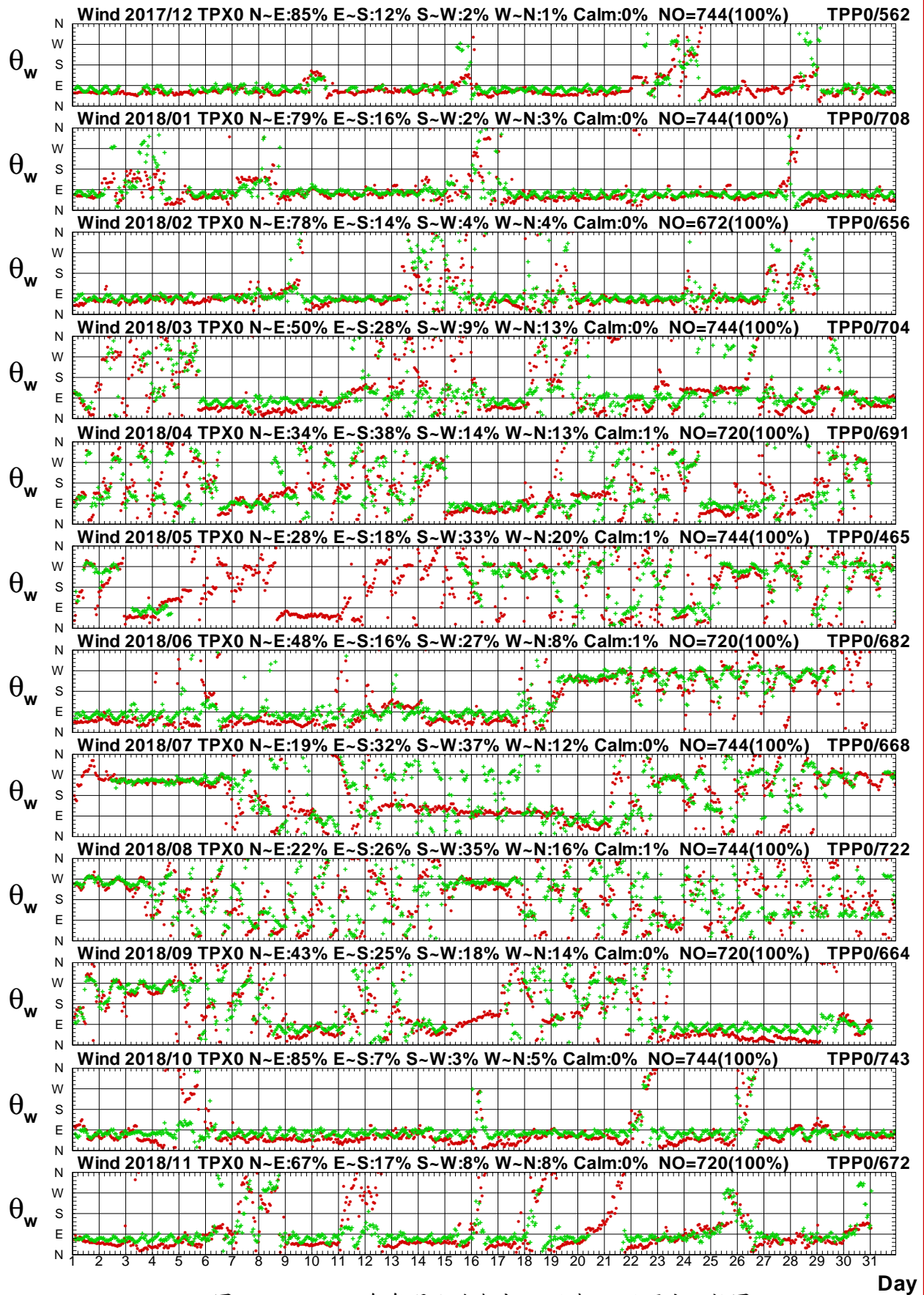


圖1.3.6b 2018年每月北苗海域 X 站與 P 站風向比較圖

W17CTPX0.1HA W17CTPP0.1H0 W181TPX0.1HA W181TPP0.1H0 W182TPX0.1HA W182TPP0.1H0  
 W183TPX0.1HA W183TPP0.1H0 W184TPX0.1HA W184TPP0.1H0 W185TPX0.1HA W185TPP0.1H0

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# Wind Speed in Pei-Miao Seas of TPX0 at 2018

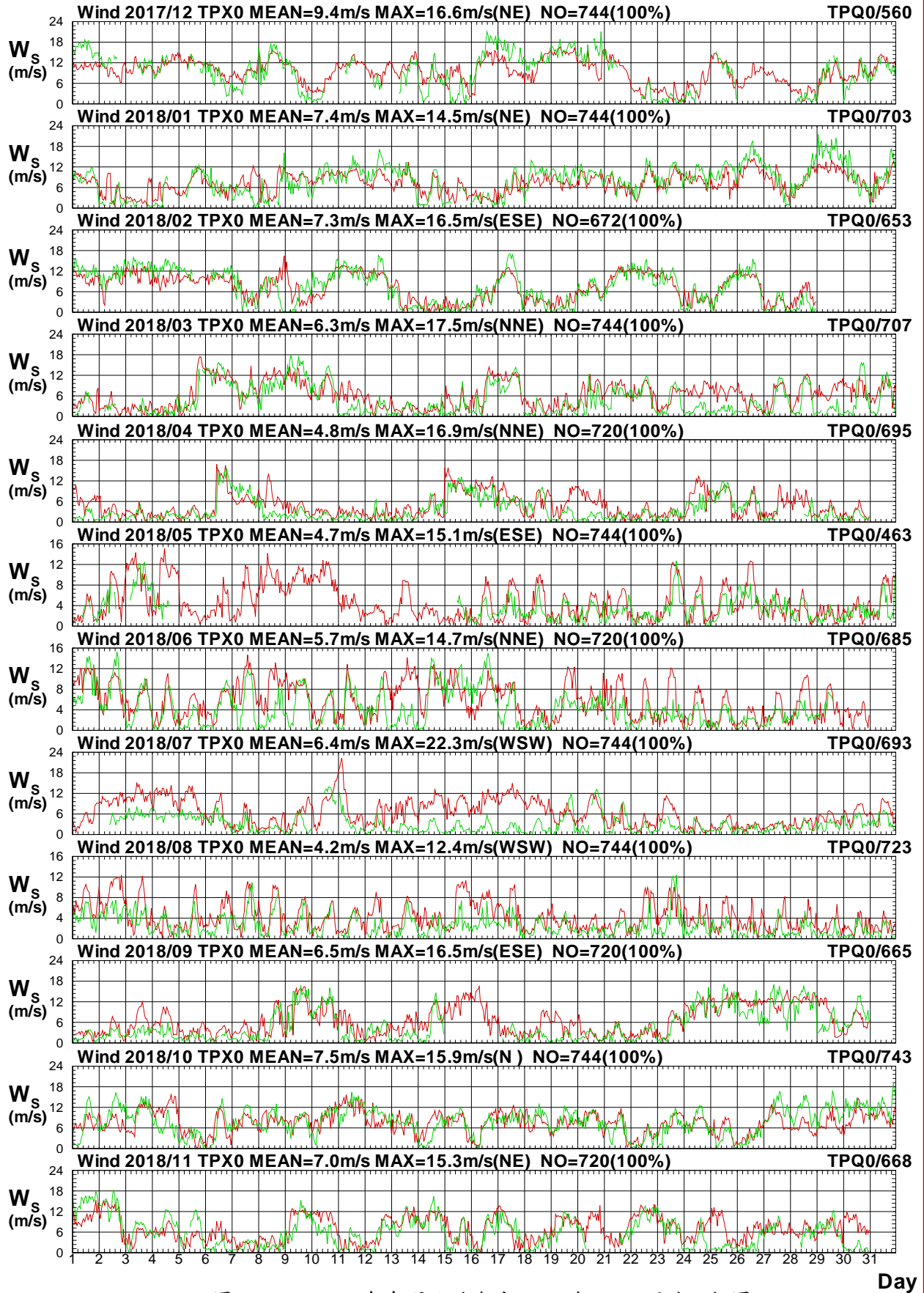


圖1.3.7a 2018年每月北苗海域 X 站與 Q 站風速比較圖

W17CTPX0.1HA W17CTPQ0.1H0 W181TPX0.1HA W181TPQ0.1H0 W182TPX0.1HA W182TPQ0.1H0  
 W183TPX0.1HA W183TPQ0.1H0 W184TPX0.1HA W184TPQ0.1H0 W185TPX0.1HA W185TPQ0.1H0

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# Wind Direction in Pei-Miao Seas of TPX0 at 2018

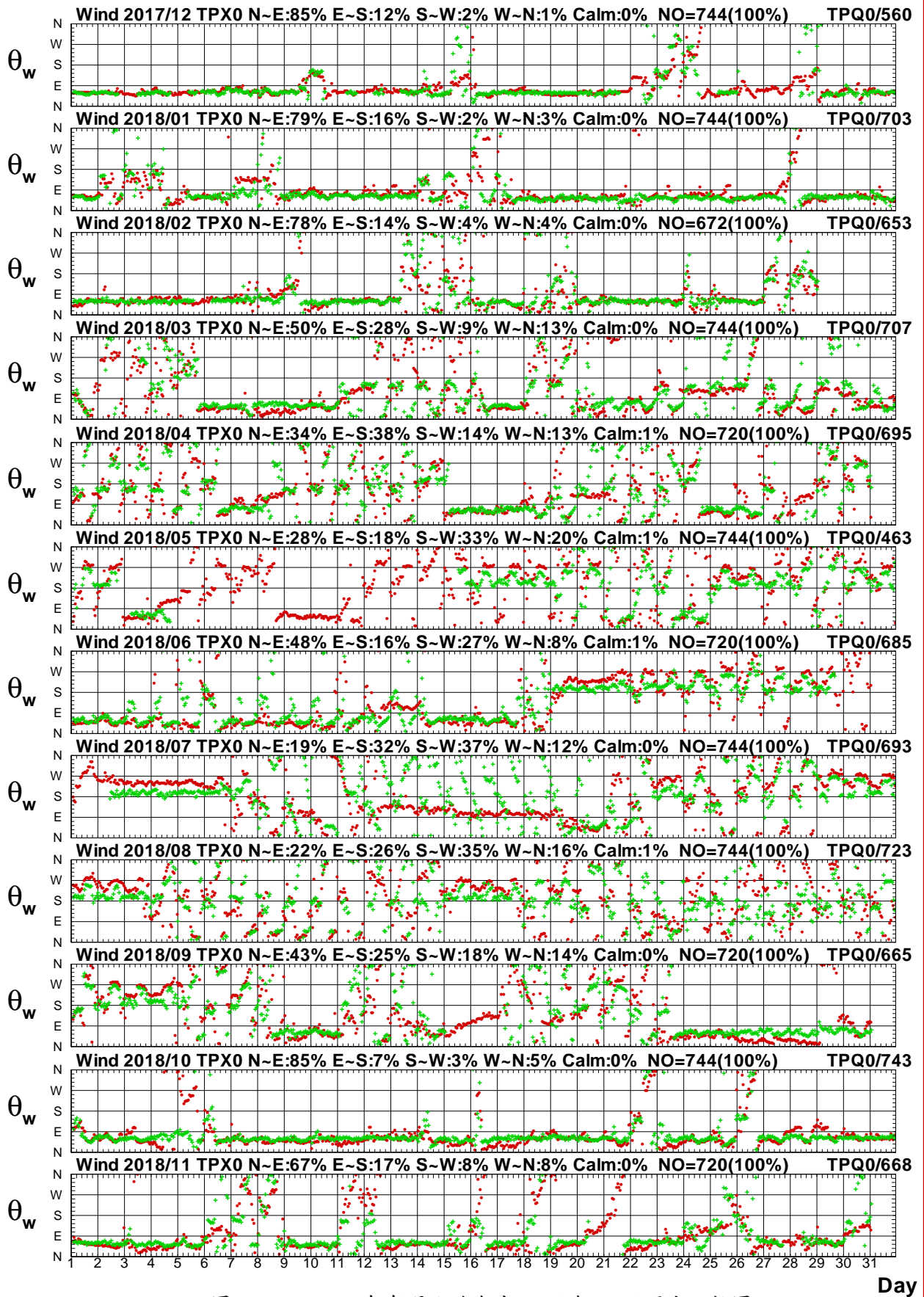


圖1.3.7b 2018年每月北苗海域 X 站與 Q 站風向比較圖

W17CTPX0.1HA W17CTPQ0.1HO W181TPX0.1HA W181TPQ0.1HO W182TPX0.1HA W182TPQ0.1HO  
 W183TPX0.1HA W183TPQ0.1HO W184TPX0.1HA W184TPQ0.1HO W185TPX0.1HA W185TPQ0.1HO

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# Wind Speed in Pei-Miao Seas of TPX0 at 2018

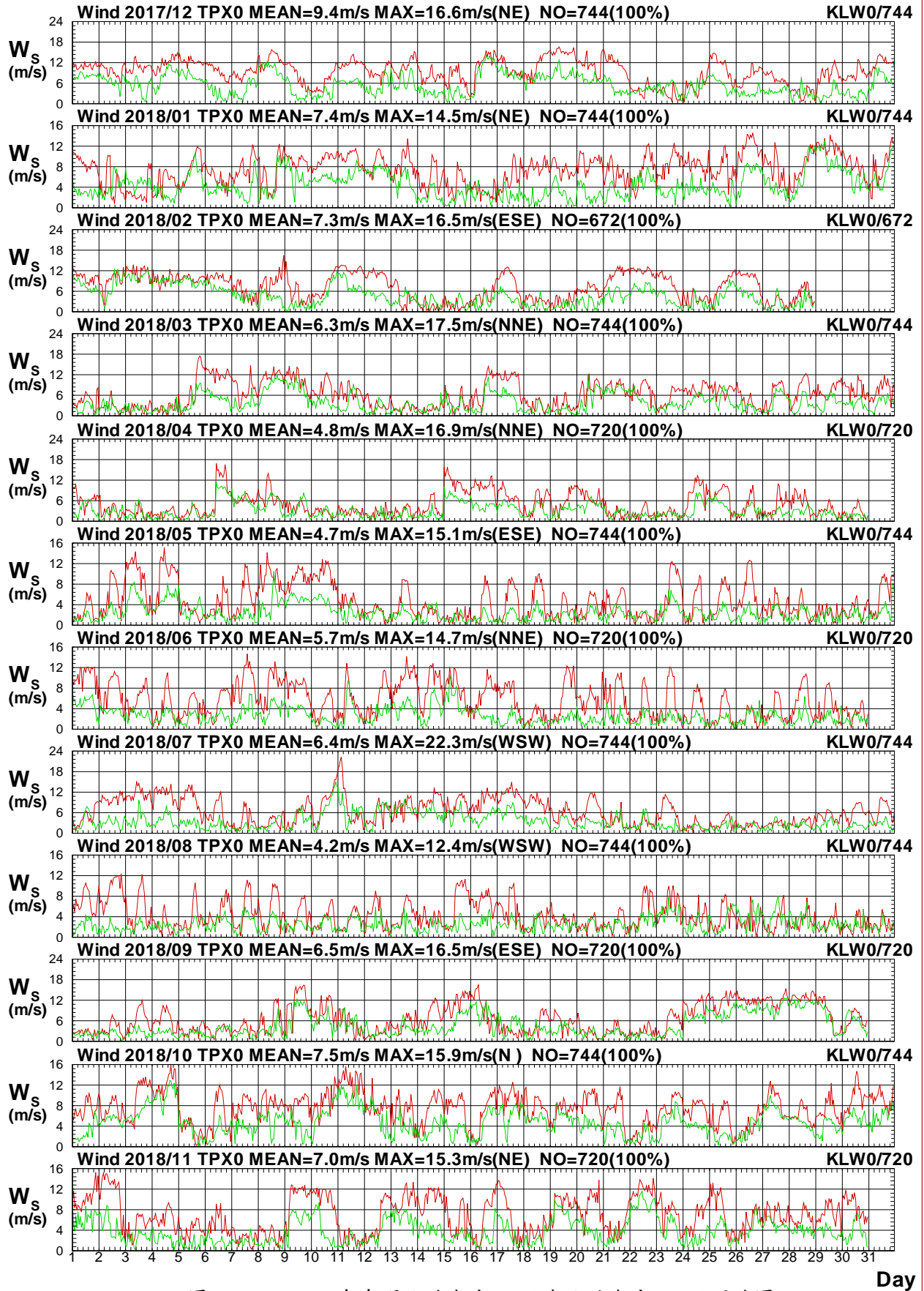


圖 1.3.8a 2018 年每月北苗海域 X 站與北端海域 W 站風速圖

W17CTPX0.1HA W17CKLW0.1H0 W181TPX0.1HA W181KLW0.1H0 W182TPX0.1HA W182KLW0.1H0  
 W183TPX0.1HA W183KLW0.1H0 W184TPX0.1HA W184KLW0.1H0 W185TPX0.1HA W185KLW0.1H0

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# Wind Direction in Pei-Miao Seas of TPX0 at 2018

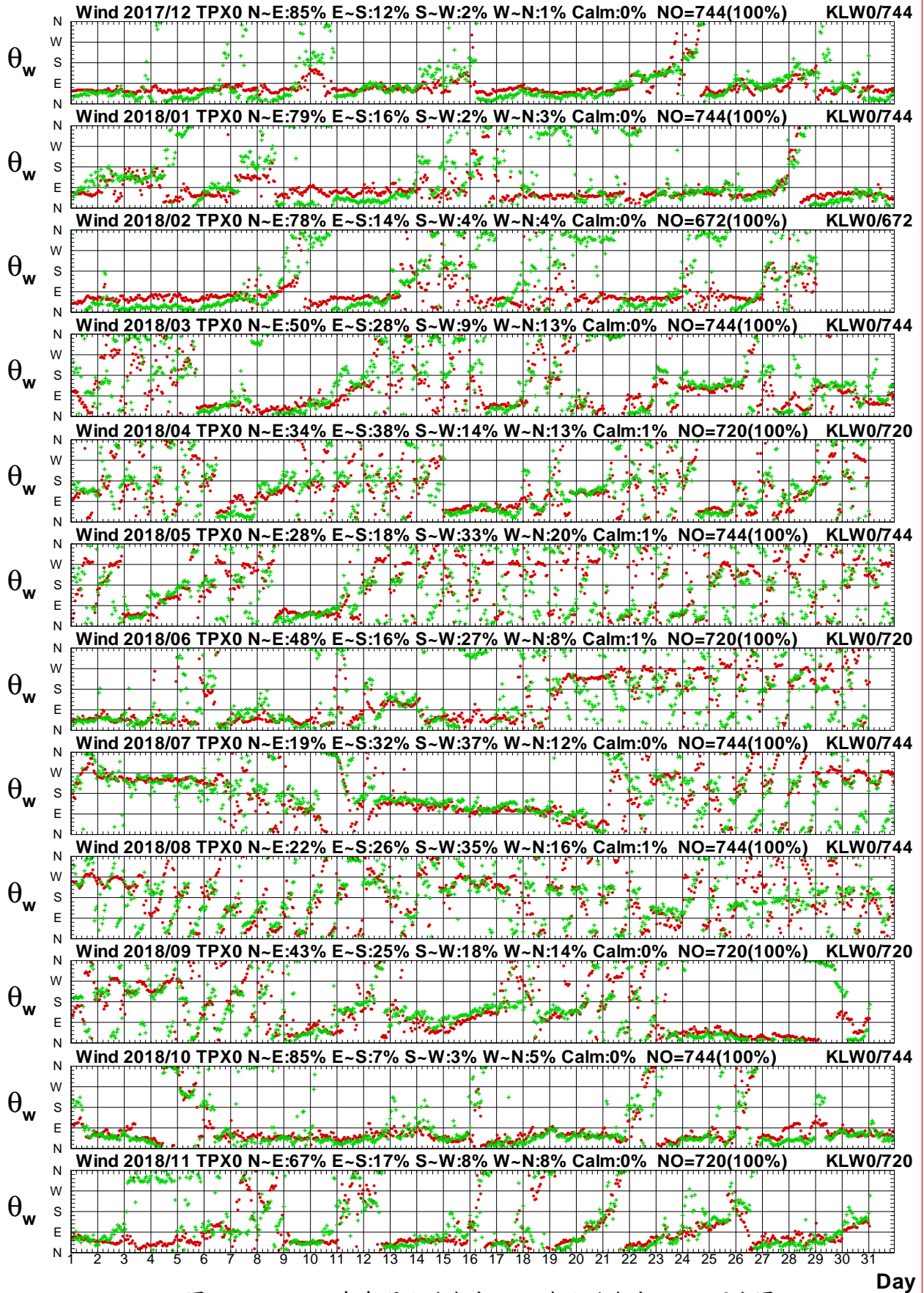


圖1.3.8b 2018年每月北苗海域 X 站與北端海域 W 站風向圖

W17CTPX0.1HA W17CKLW0.1H0 W181TPX0.1HA W181KLW0.1H0 W182TPX0.1HA W182KLW0.1H0  
 W183TPX0.1HA W183KLW0.1H0 W184TPX0.1HA W184KLW0.1H0 W185TPX0.1HA W185KLW0.1H0

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# Wind Speed in Pei-Miao Seas of TPX0 at 2018

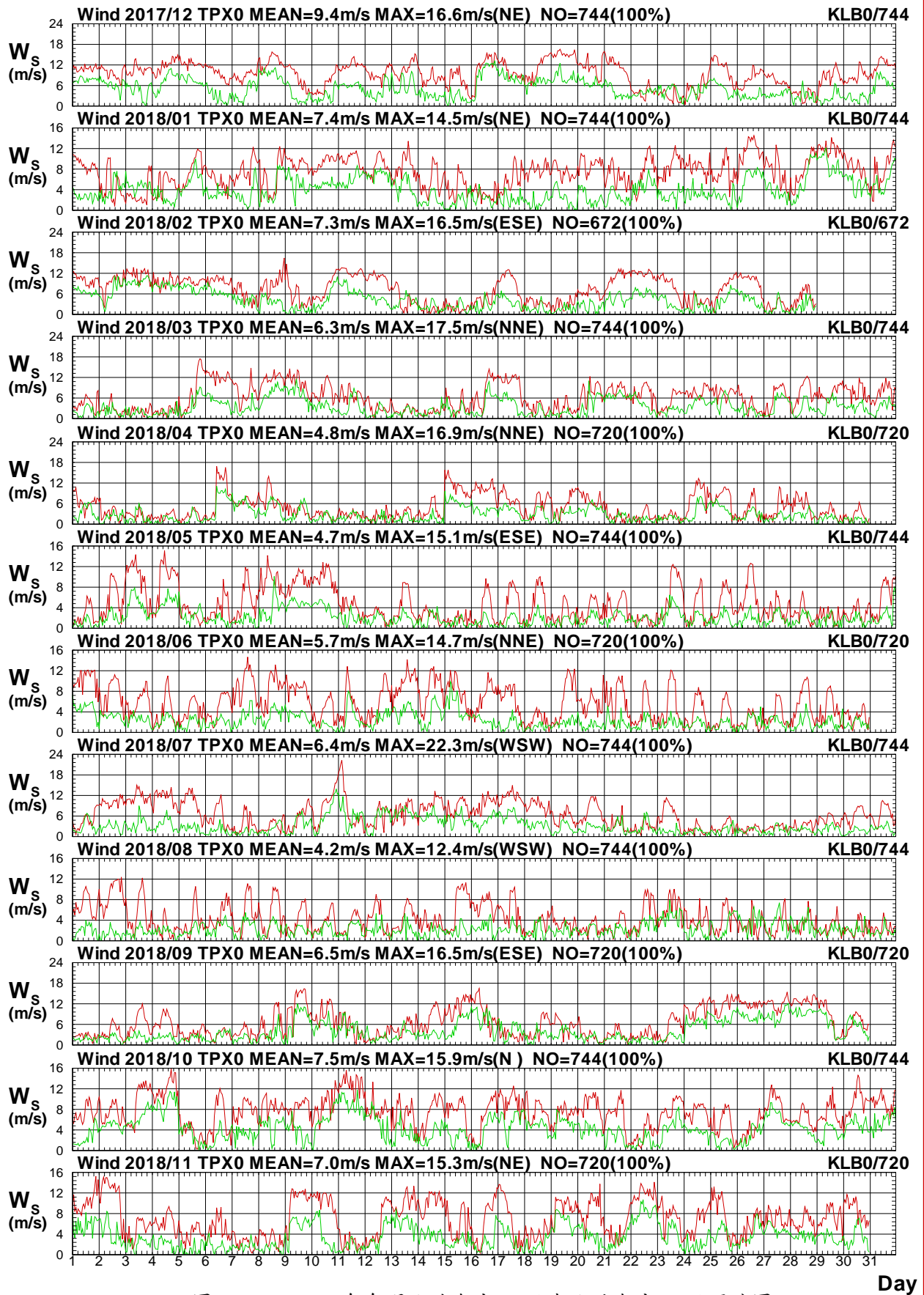


圖1.3.9a 2018年每月北苗海域 X 站與北端海域 B 站風速圖

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 W183TPX0.1HA W183KLB0.1H0 W184TPX0.1HA W184KLB0.1H0 W185TPX0.1HA W185KLB0.1H0

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# Wind Direction in Pei-Miao Seas of TPX0 at 2018

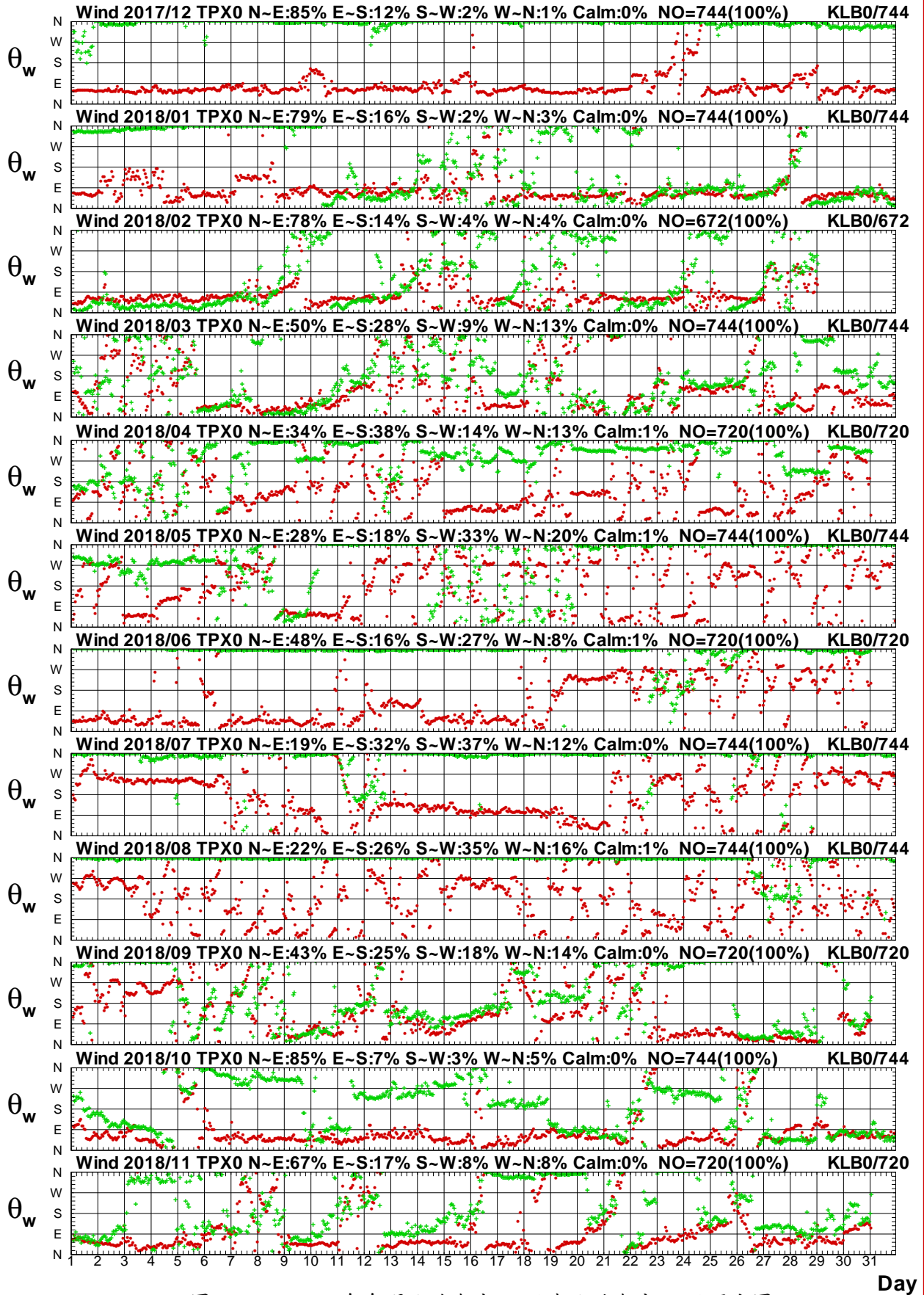


圖 1.3.9b 2018 年每月北苗海域 X 站與北端海域 B 站風向圖

W17CTPX0.1HA W17CKLB0.1H0 W181TPX0.1HA W181KLB0.1H0 W182TPX0.1HA W182KLB0.1H0  
 W183TPX0.1HA W183KLB0.1H0 W184TPX0.1HA W184KLB0.1H0 W185TPX0.1HA W185KLB0.1H0

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# Wind Speed in Pei-Miao Seas of TPX0 at 2018

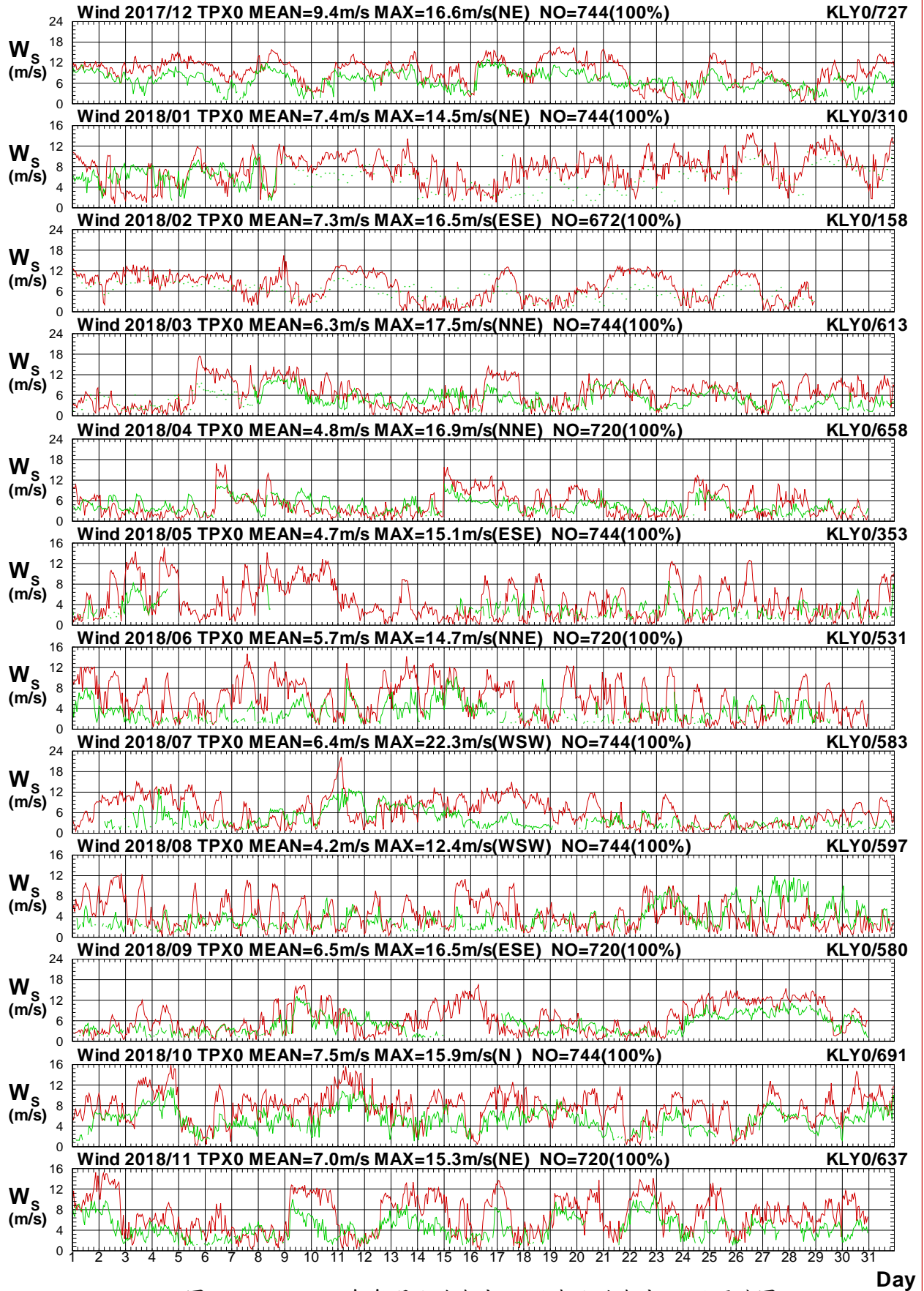


圖 1.3.10a 2018 年每月北苗海域 X 站與北端海域 Y 站風速圖

W17CTPX0.1HA W17CKLY0.1H0 W181TPX0.1HA W181KLY0.1H0 W182TPX0.1HA W182KLY0.1H0  
 W183TPX0.1HA W183KLY0.1H0 W184TPX0.1HA W184KLY0.1H0 W185TPX0.1HA W185KLY0.1H0

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# Wind Direction in Pei-Miao Seas of TPX0 at 2018

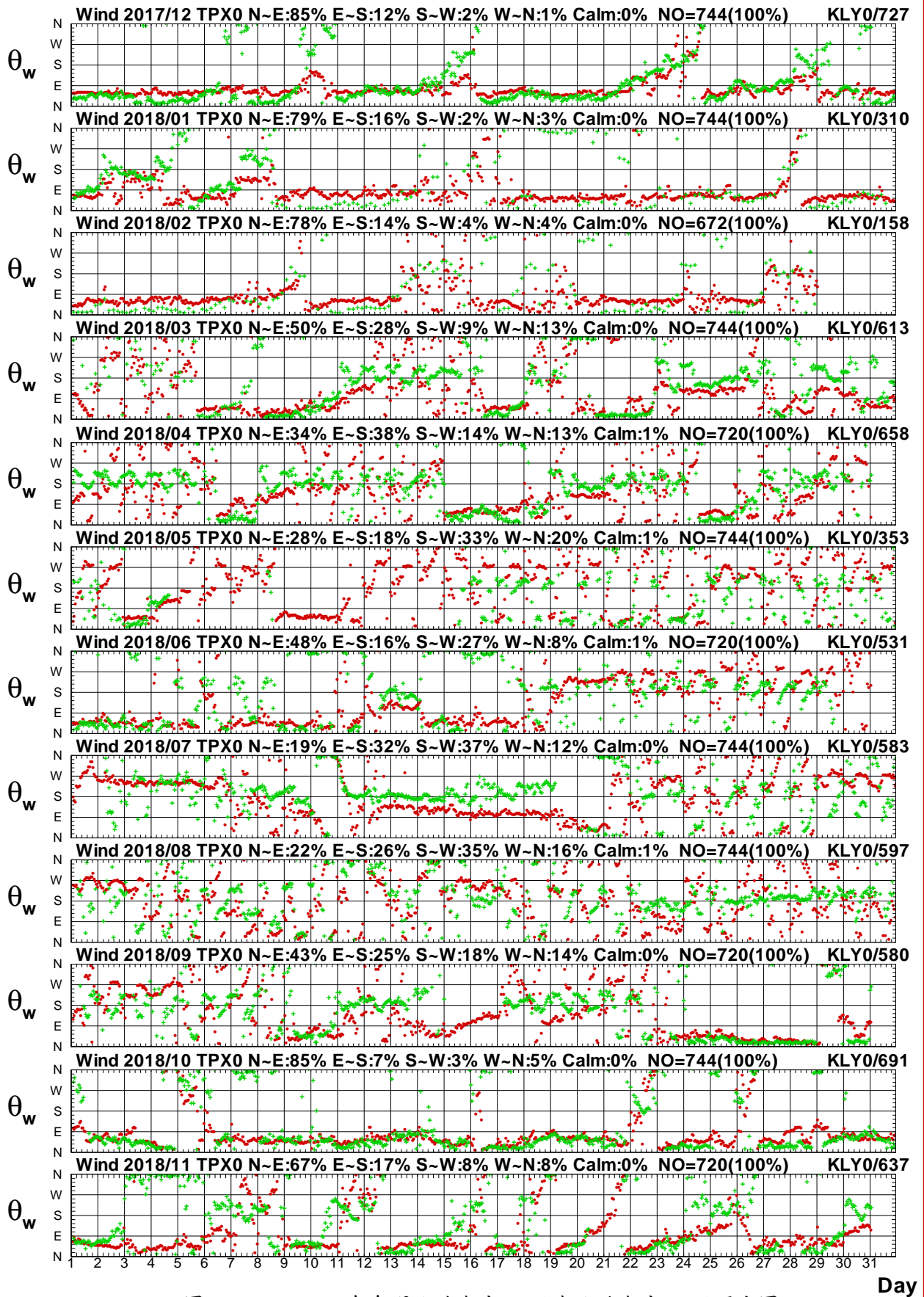


圖 1.3.10b 2018年每月北苗海域 X 站與北端海域 Y 站風向圖

W17TPX0.1HA W17CKLY0.1H0 W181TPX0.1HA W181KLY0.1H0 W182TPX0.1HA W182KLY0.1H0  
W183TPX0.1HA W183KLY0.1H0 W184TPX0.1HA W184KLY0.1H0 W185TPX0.1HA W185KLY0.1H0

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# Wind Speed in Pei-Miao Seas of TPX0 at 2018

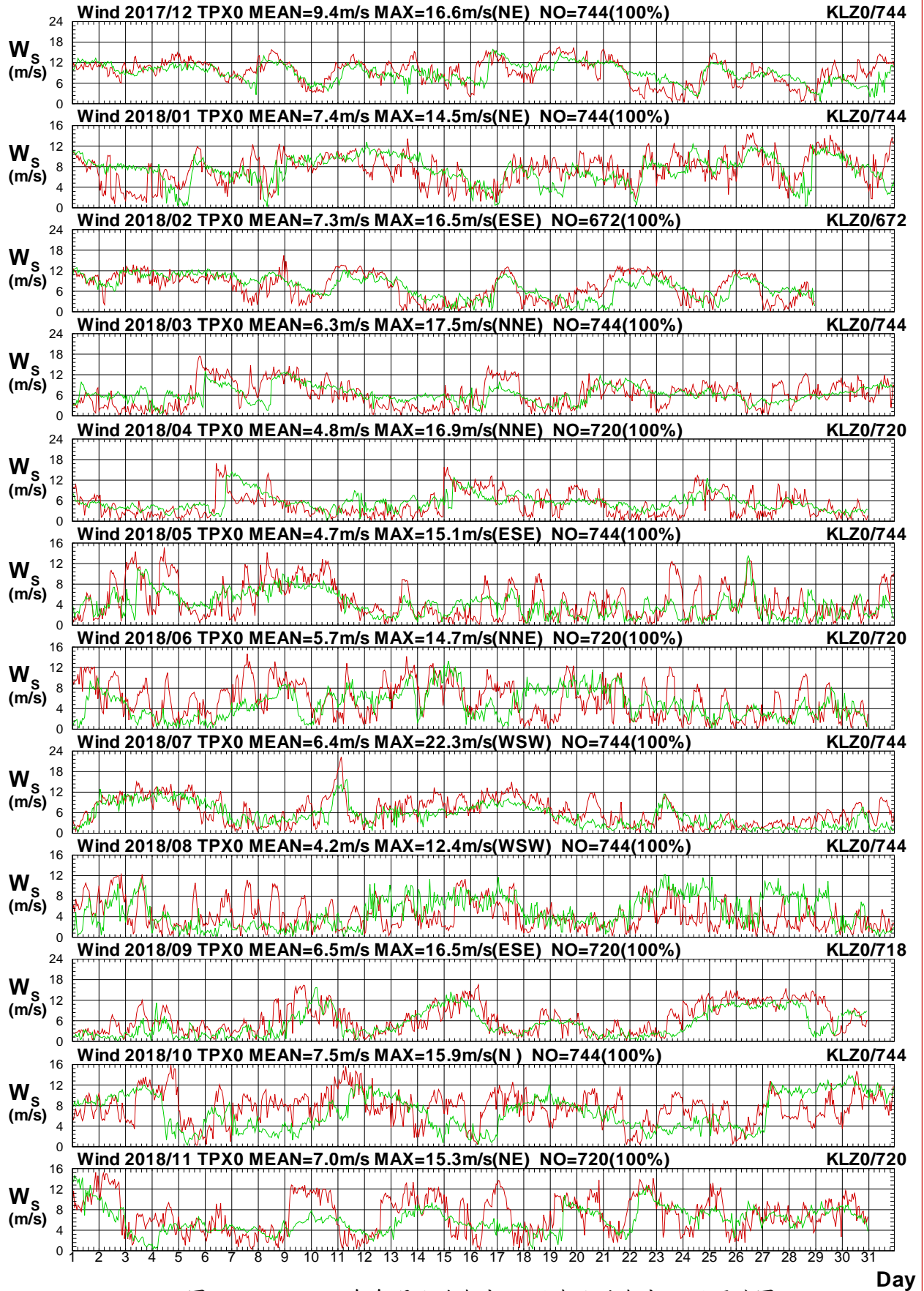


圖1.3.11a 2018年每月北苗海域 X 站與北端海域 Z 站風速圖

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 W183TPX0.1HA W183KLZ0.1H0 W184TPX0.1HA W184KLZ0.1H0 W185TPX0.1HA W185KLZ0.1H0

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# Wind Direction in Pei-Miao Seas of TPX0 at 2018

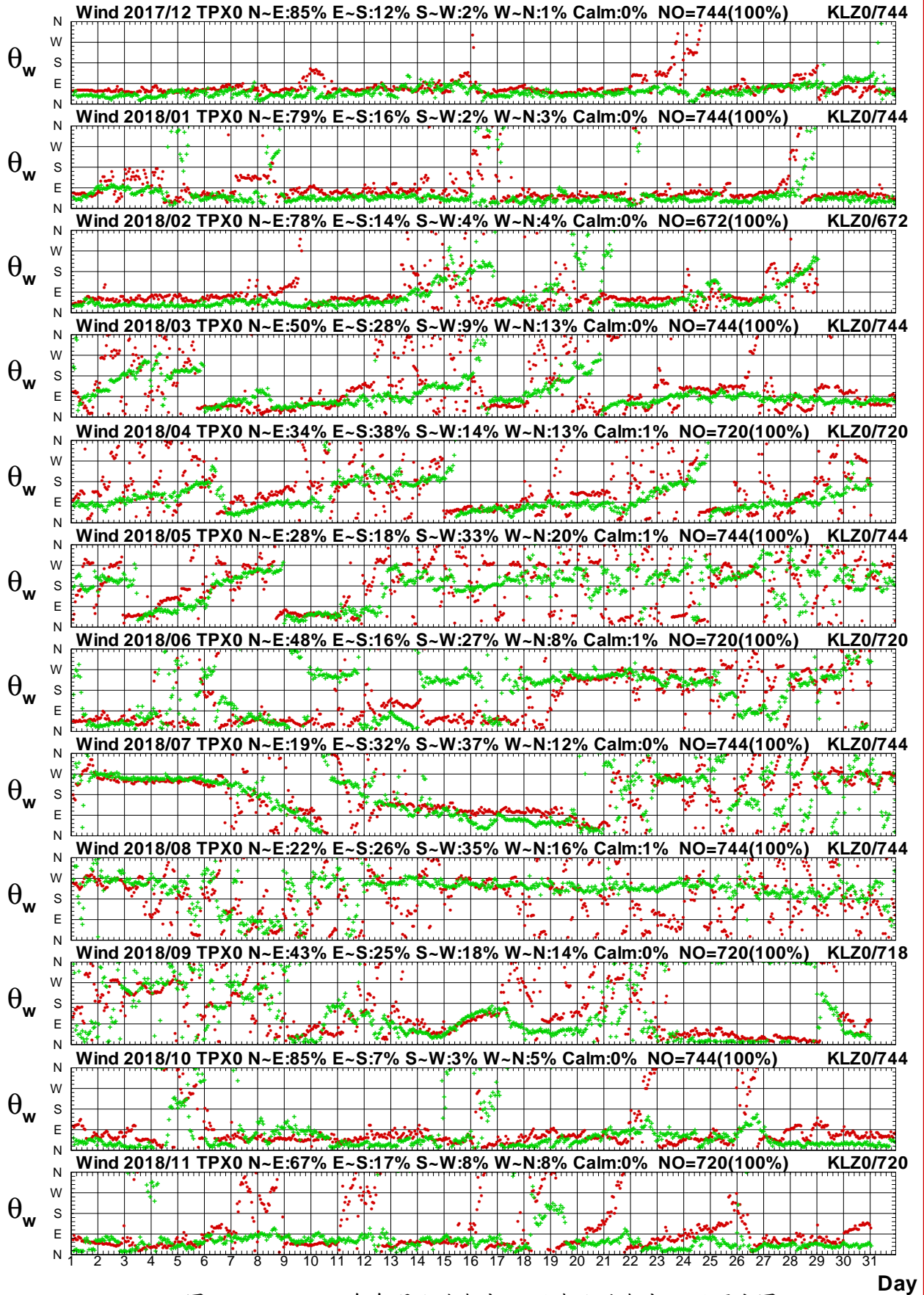


圖 1.3.11b 2018年每月北苗海域 X 站與北端海域 Z 站風向圖

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 W183TPX0.1HA W183KLZ0.1H0 W184TPX0.1HA W184KLZ0.1H0 W185TPX0.1HA W185KLZ0.1H0

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# Wind Speed in Pei-Miao Seas of TPX0 at 2018

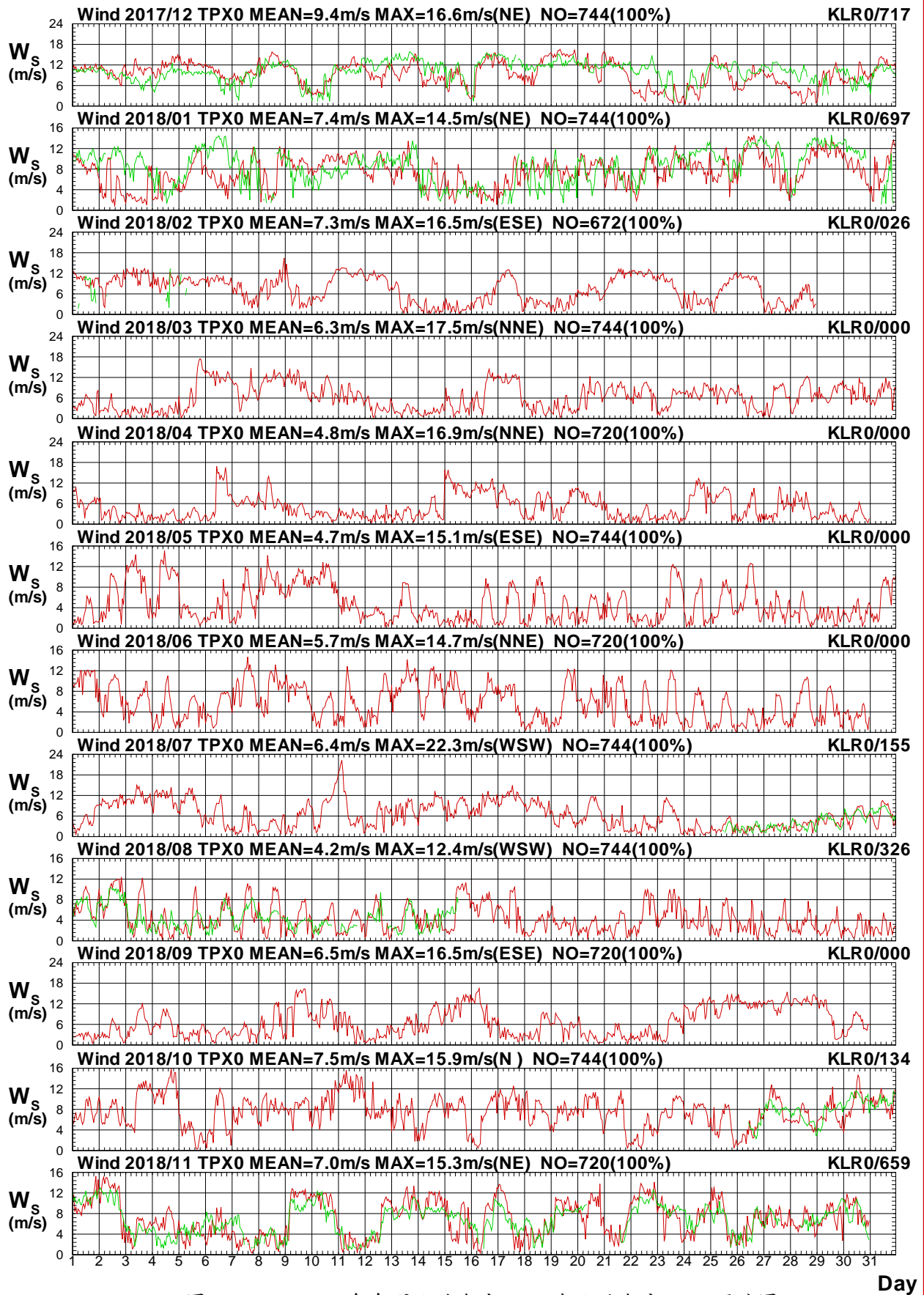


圖 1.3.12a 2018 年每月北苗海域 X 站與北端海域 R 站風速圖

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 W183TPX0.1HA W183KLR0.1H0 W184TPX0.1HA W184KLR0.1H0 W185TPX0.1HA W185KLR0.1H0

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# Wind Direction in Pei-Miao Seas of TPX0 at 2018

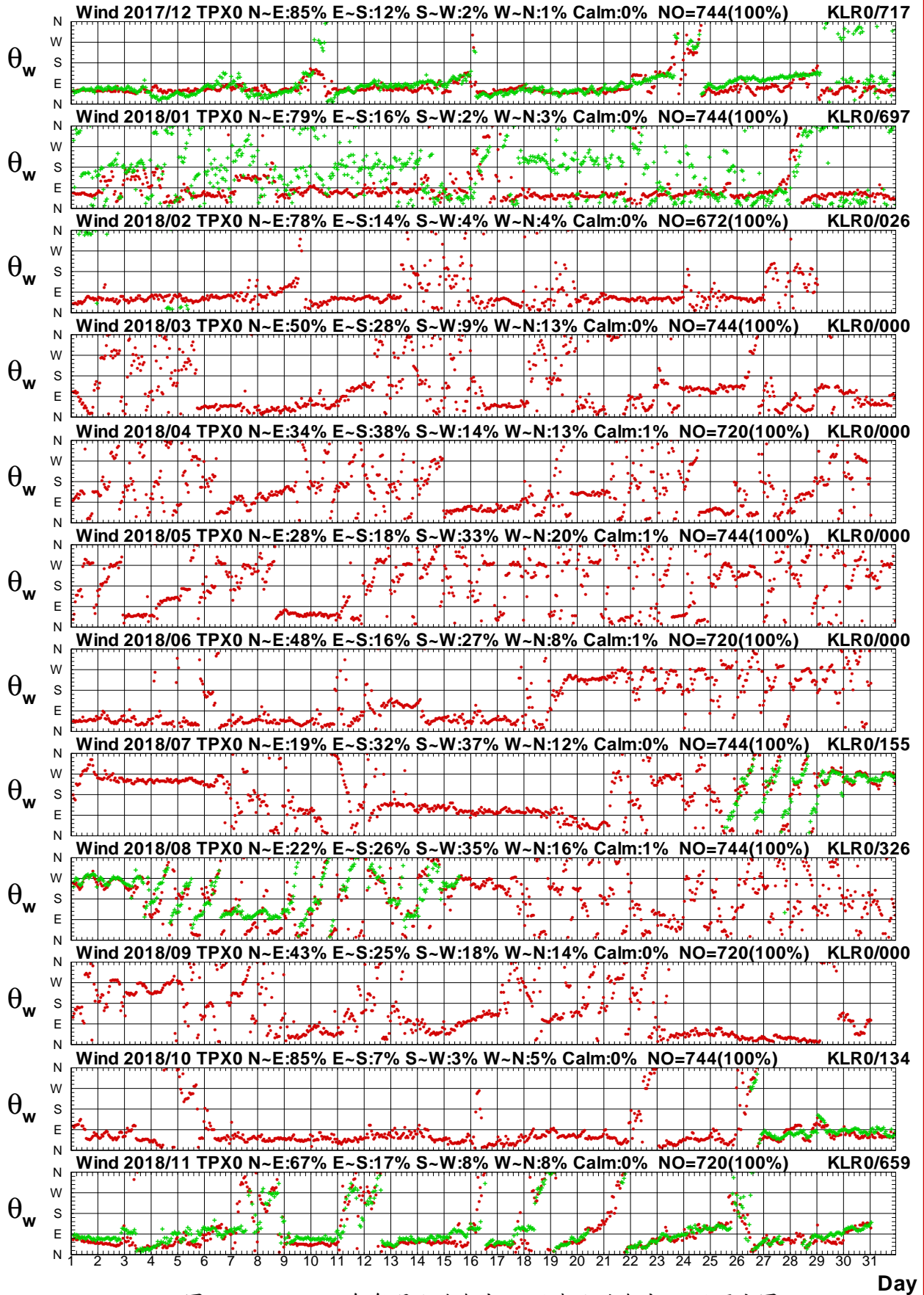


圖 1.3.12b 2018年每月北苗海域 X 站與北端海域 R 站風向圖

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 W183TPX0.1HA W183KLR0.1H0 W184TPX0.1HA W184KLR0.1H0 W185TPX0.1HA W185KLR0.1H0

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# Wind Speed in Pei-Miao Seas of TPX0 at 2018

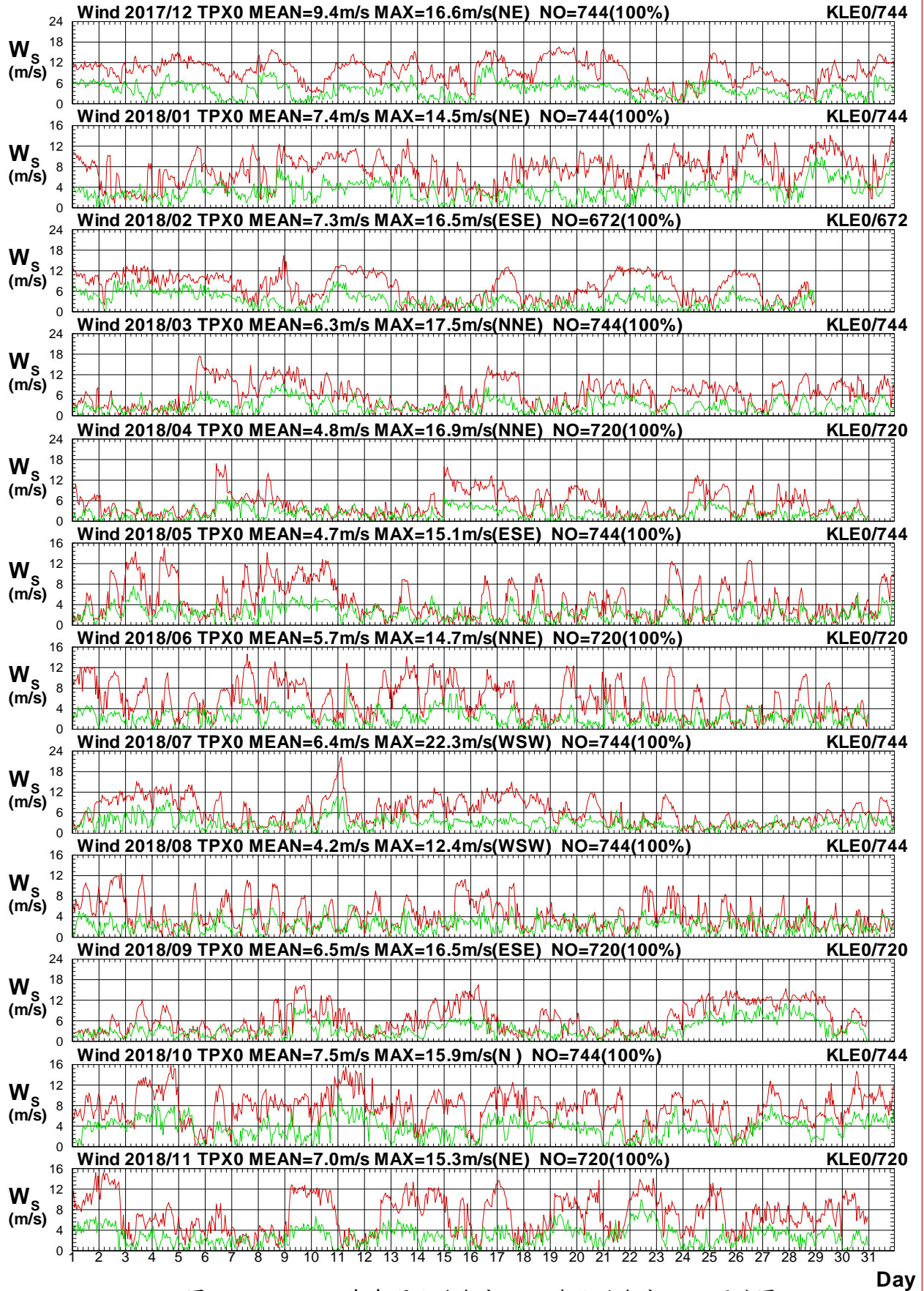


圖 1.3.13a 2018年每月北苗海域 X 站與北端海域 E 站風速圖

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 W183TPX0.1HA W183KLE0.1H0 W184TPX0.1HA W184KLE0.1H0 W185TPX0.1HA W185KLE0.1H0

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# Wind Direction in Pei-Miao Seas of TPX0 at 2018

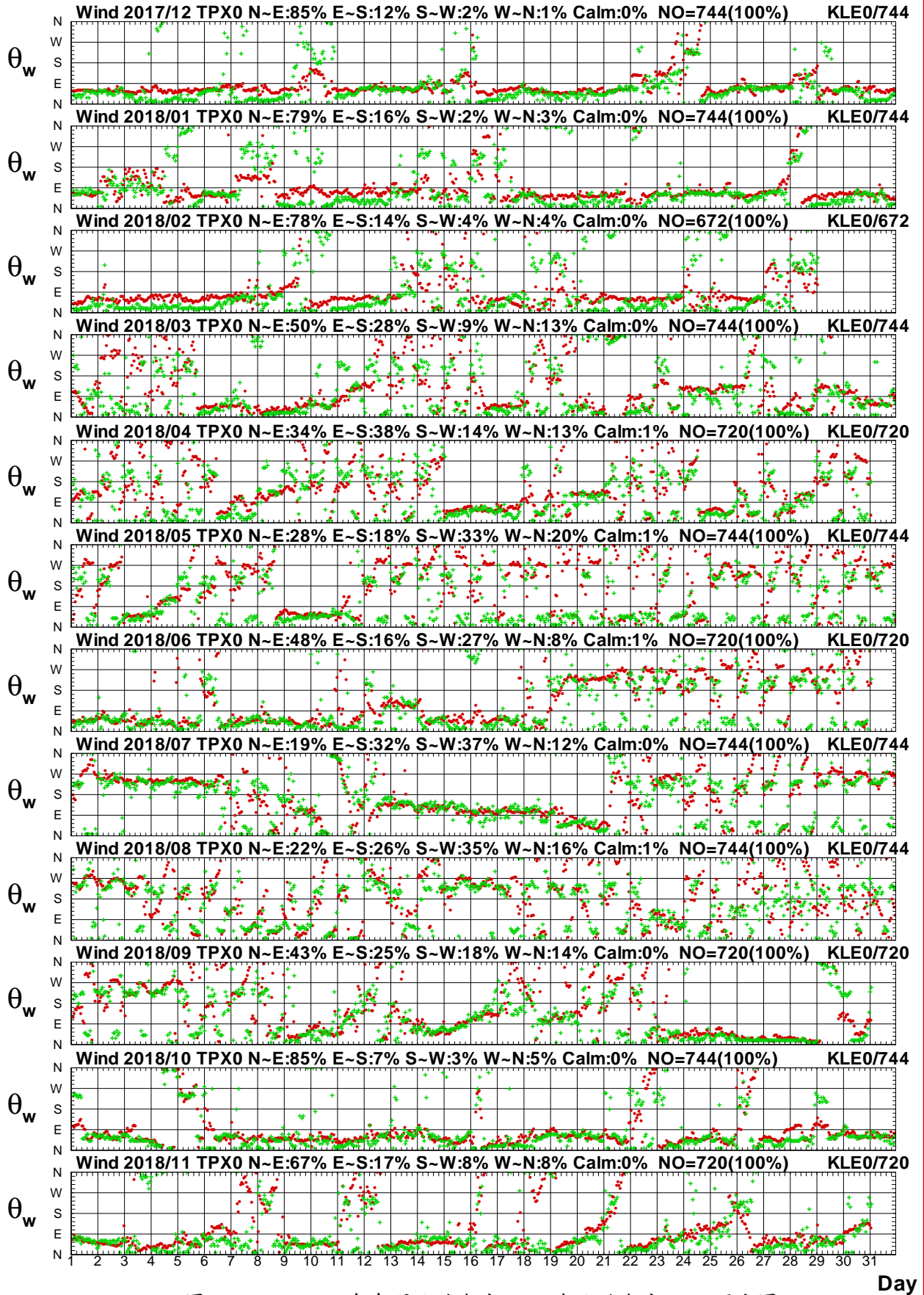


圖 1.3.13b 2018年每月北苗海域 X 站與北端海域 E 站風向圖

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W183TPX0.1HA W183KLE0.1H0 W184TPX0.1HA W184KLE0.1H0 W185TPX0.1HA W185KLE0.1H0

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# Wind Speed in Pei-Miao Seas of TPX0 at 2018

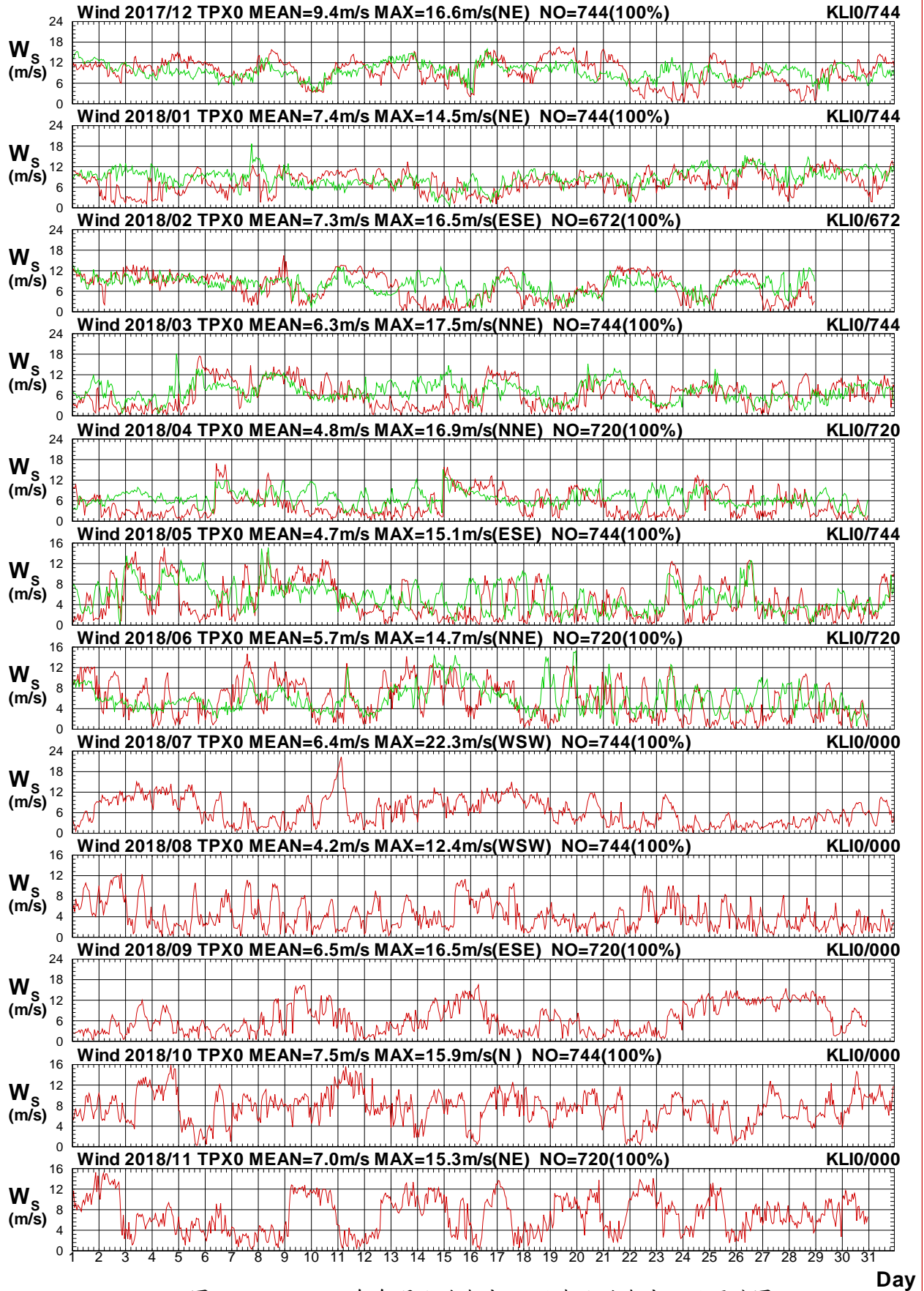


圖1.3.14a 2018年每月北苗海域 X 站與北端海域 I 站風速圖

W17CTPX0.1HA W17CKLI0.1H0 W181TPX0.1HA W181KLI0.1H0 W182TPX0.1HA W182KLI0.1H0  
 W183TPX0.1HA W183KLI0.1H0 W184TPX0.1HA W184KLI0.1H0 W185TPX0.1HA W185KLI0.1H0

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# Wind Direction in Pei-Miao Seas of TPX0 at 2018

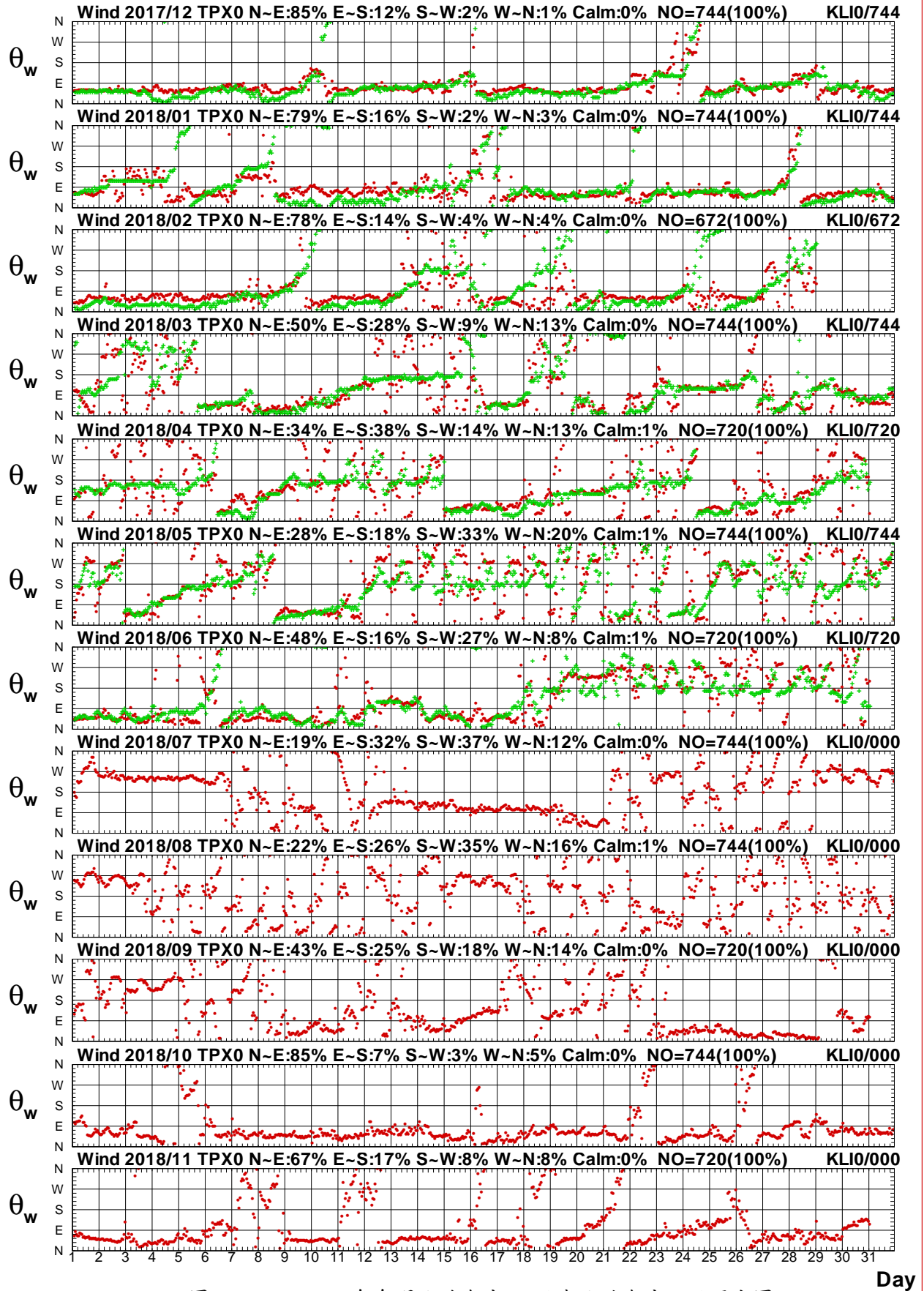


圖1.3.14b 2018年每月北苗海域 X 站與北端海域 I 站風向圖

W17CTPX0.1HA W17CKLI0.1H0 W181TPX0.1HA W181KLI0.1H0 W182TPX0.1HA W182KLI0.1H0  
 W183TPX0.1HA W183KLI0.1H0 W184TPX0.1HA W184KLI0.1H0 W185TPX0.1HA W185KLI0.1H0

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# Wind Speed in Pei-Miao Seas of TPX0 at 2018

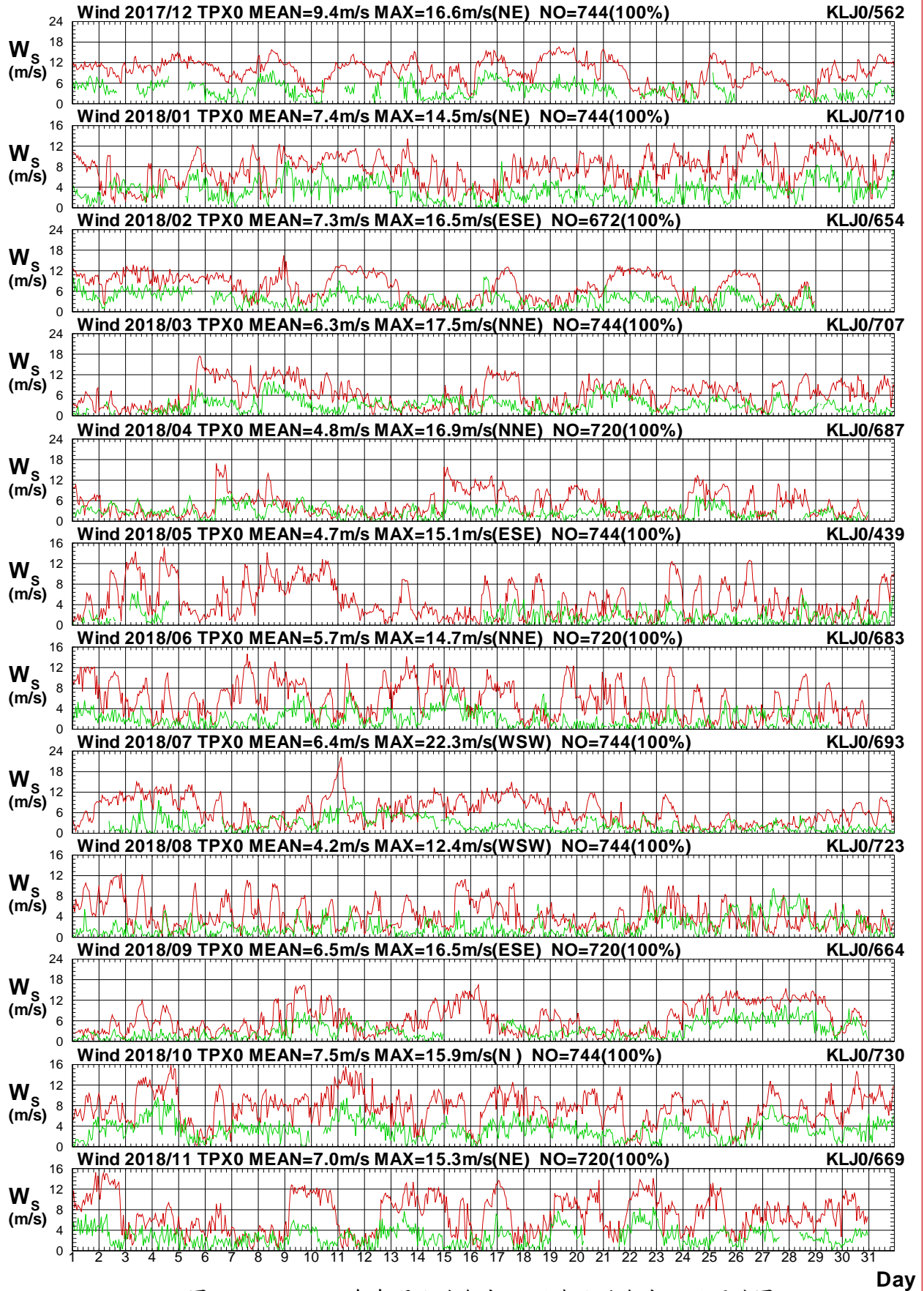


圖1.3.15a 2018年每月北苗海域 X 站與北端海域 J 站風速圖

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 W183TPX0.1HA W183KLJ0.1H0 W184TPX0.1HA W184KLJ0.1H0 W185TPX0.1HA W185KLJ0.1H0

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# Wind Direction in Pei-Miao Seas of TPX0 at 2018

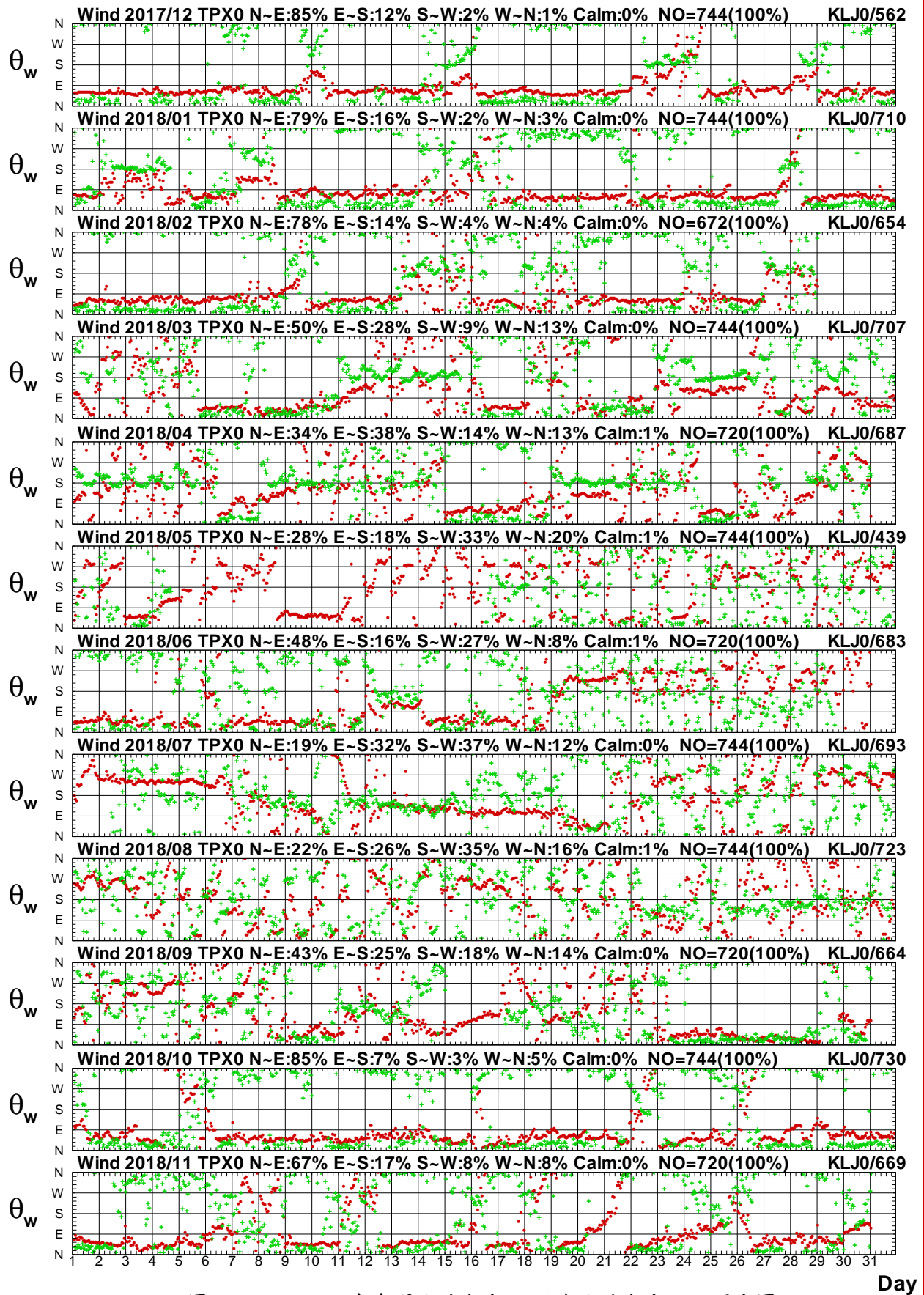


圖1.3.15b 2018年每月北苗海域 X 站與北端海域 J 站風向圖

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 W183TPX0.1HA W183KLJ0.1H0 W184TPX0.1HA W184KLJ0.1H0 W185TPX0.1HA W185KLJ0.1H0

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# Wind Speed in Pei-Miao Seas of TPX0 at 2018

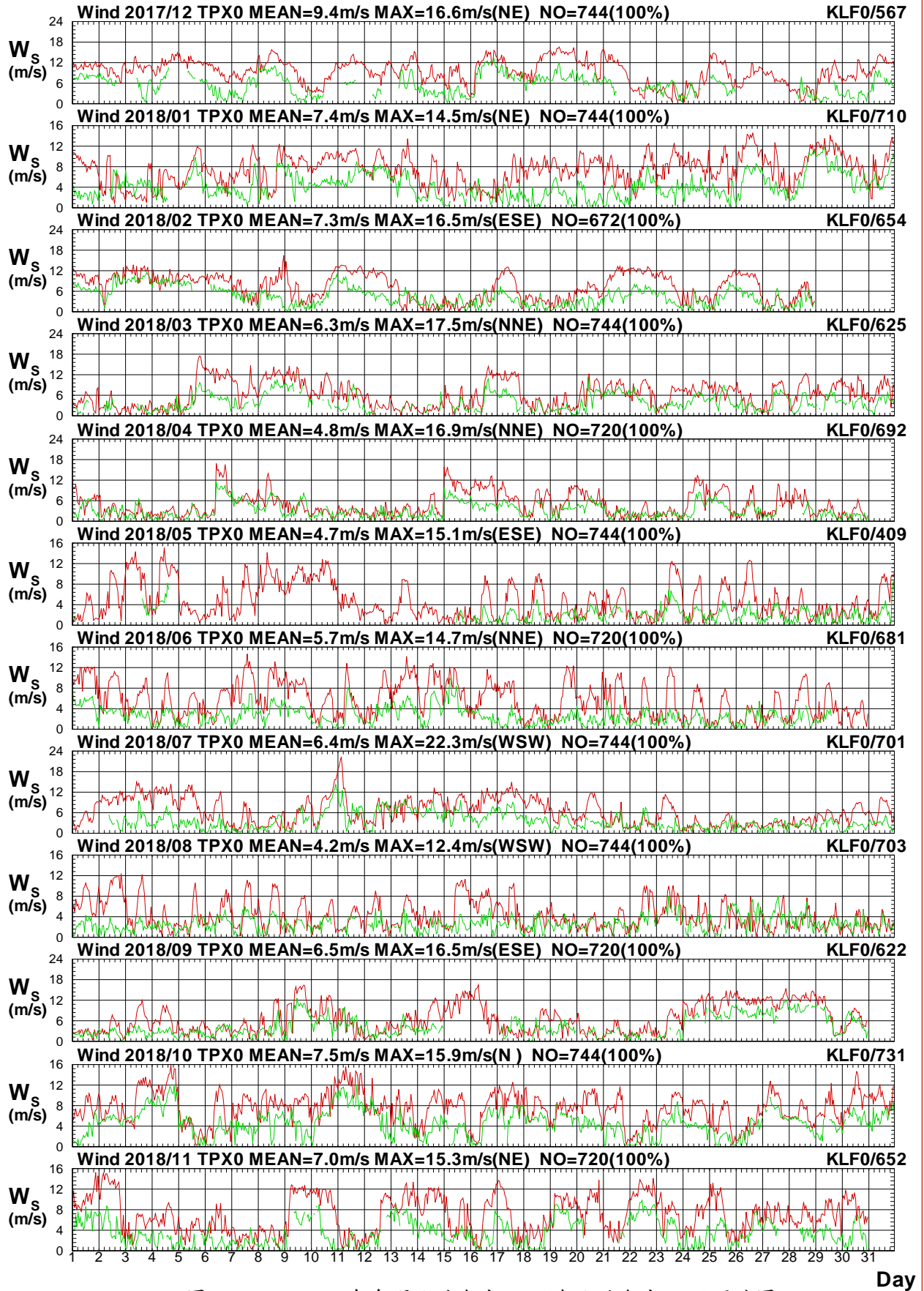


圖 1.3.16a 2018 年每月北苗海域 X 站與北端海域 F 站風速圖

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 W183TPX0.1HA W183KLF0.1H0 W184TPX0.1HA W184KLF0.1H0 W185TPX0.1HA W185KLF0.1H0

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# Wind Direction in Pei-Miao Seas of TPX0 at 2018

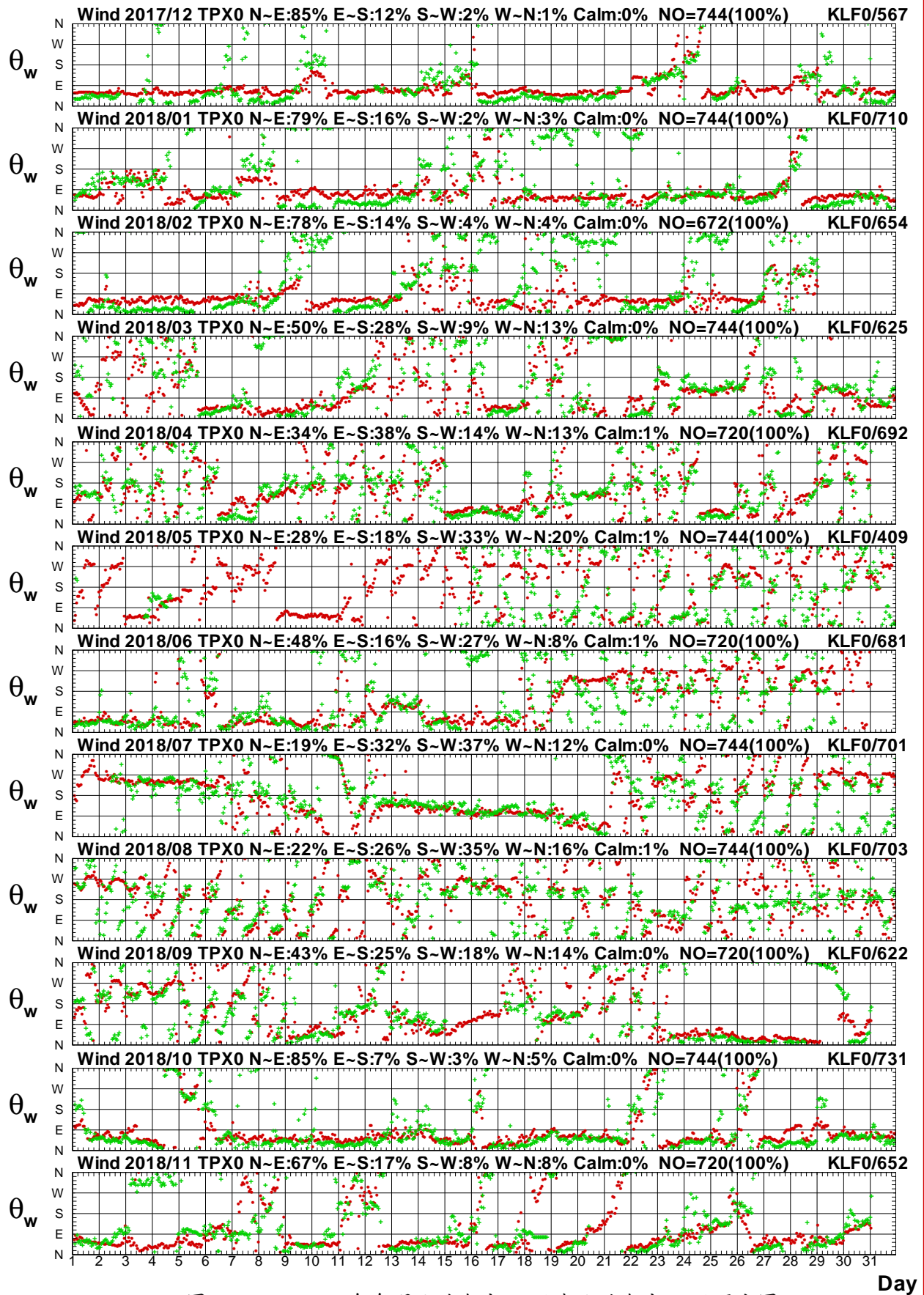


圖 1.3.16b 2018 年每月北苗海域 X 站與北端海域 F 站風向圖

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 W183TPX0.1HA W183KLF0.1H0 W184TPX0.1HA W184KLF0.1H0 W185TPX0.1HA W185KLF0.1H0

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# Wind Speed in Pei-Miao Seas of TPX0 at 2018

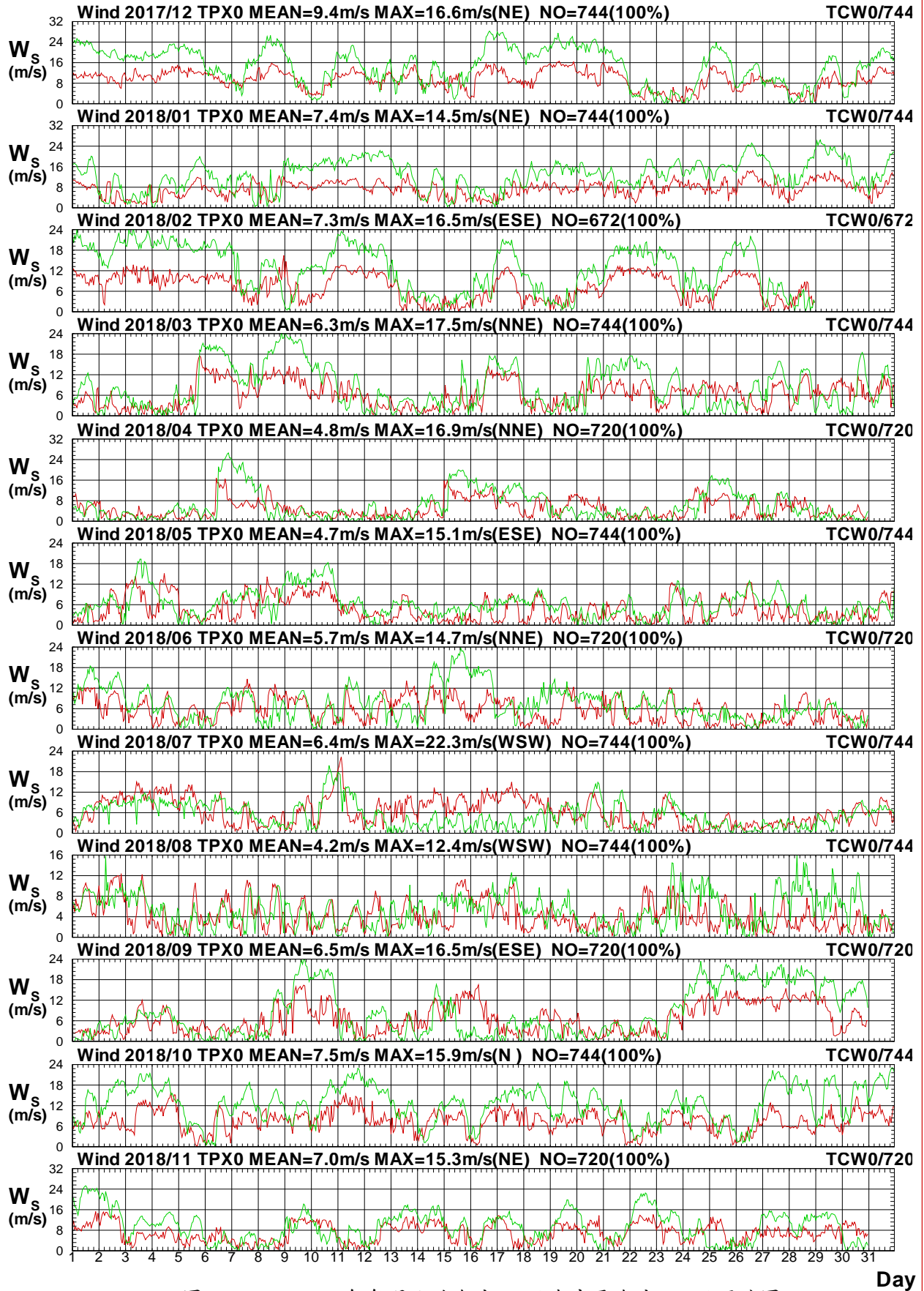


圖 1.3.17a 2018年每月北苗海域 X 站與中雲海域 W 站風速圖

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 W183TPX0.1HA W183TCW0.1H0 W184TPX0.1HA W184TCW0.1H0 W185TPX0.1HA W185TCW0.1H0

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# Wind Direction in Pei-Miao Seas of TPX0 at 2018

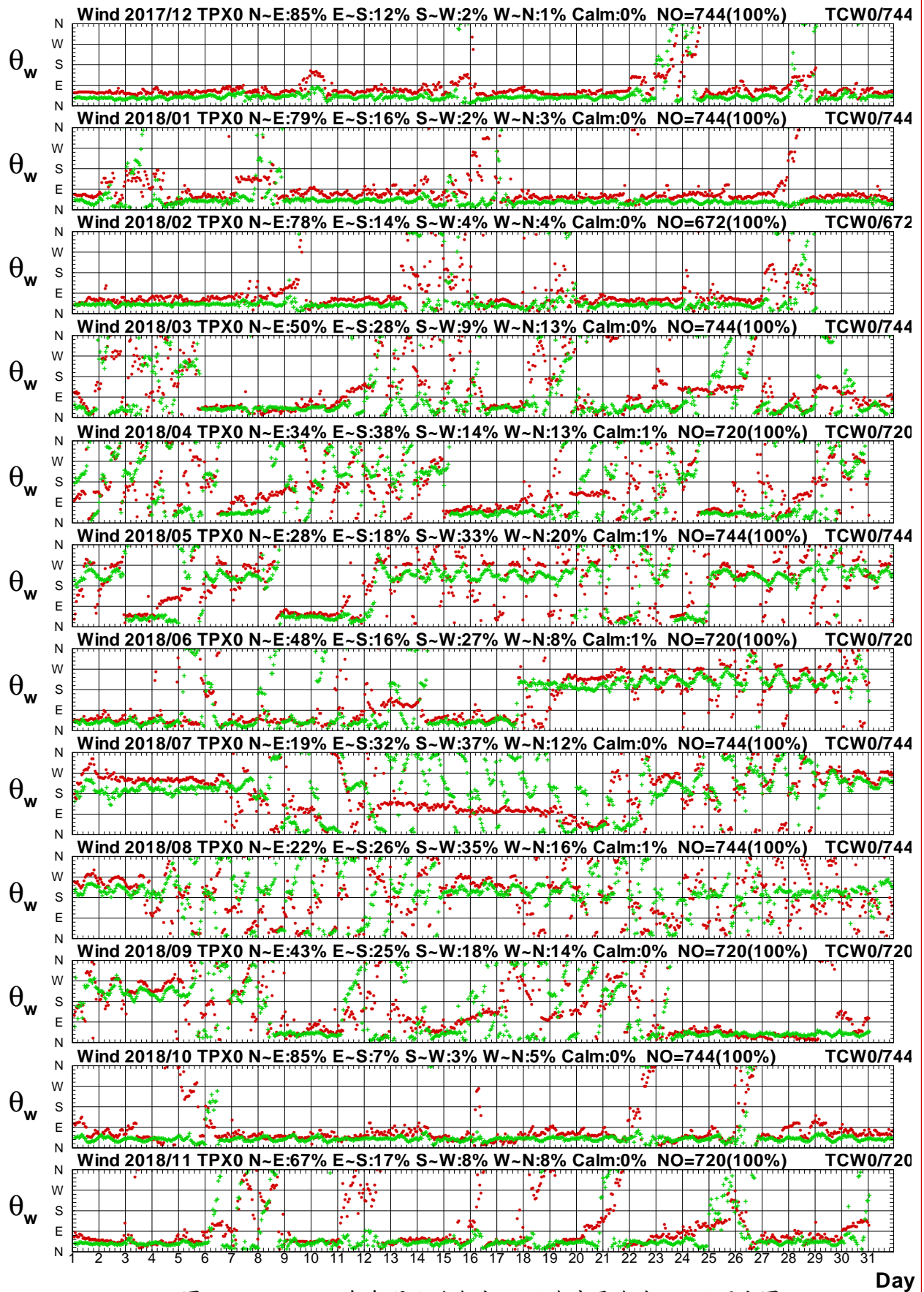


圖 1.3.17b 2018年每月北苗海域 X 站與中雲海域 W 站風向圖

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 W183TPX0.1HA W183TCW0.1H0 W184TPX0.1HA W184TCW0.1H0 W185TPX0.1HA W185TCW0.1H0

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# Wind Speed in Pei-Miao Seas of TPX0 at 2018

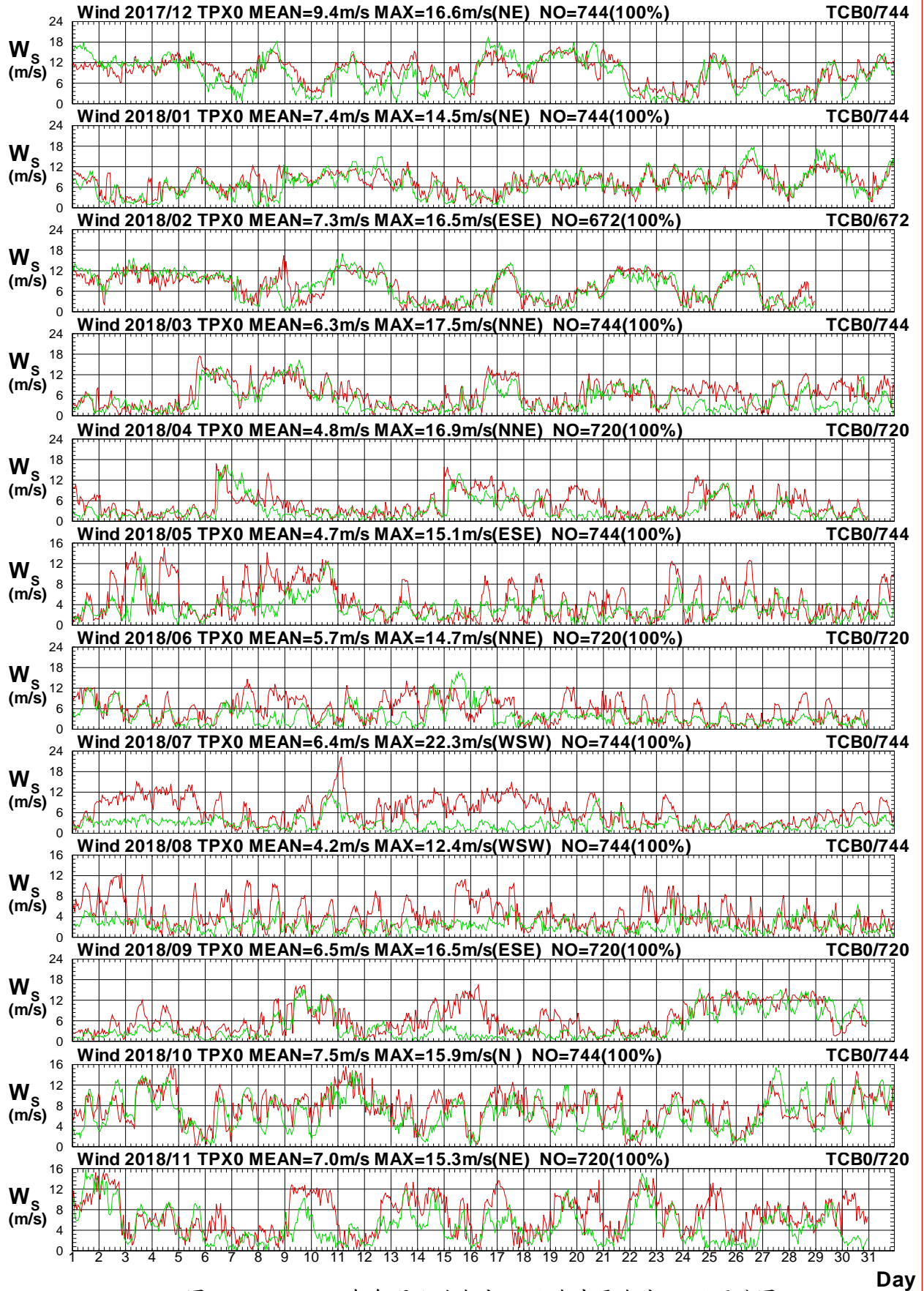


圖 1.3.18a 2018年每月北苗海域 X 站與中雲海域 B 站風速圖

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 W183TPX0.1HA W183TCB0.1H0 W184TPX0.1HA W184TCB0.1H0 W185TPX0.1HA W185TCB0.1H0

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# Wind Direction in Pei-Miao Seas of TPX0 at 2018

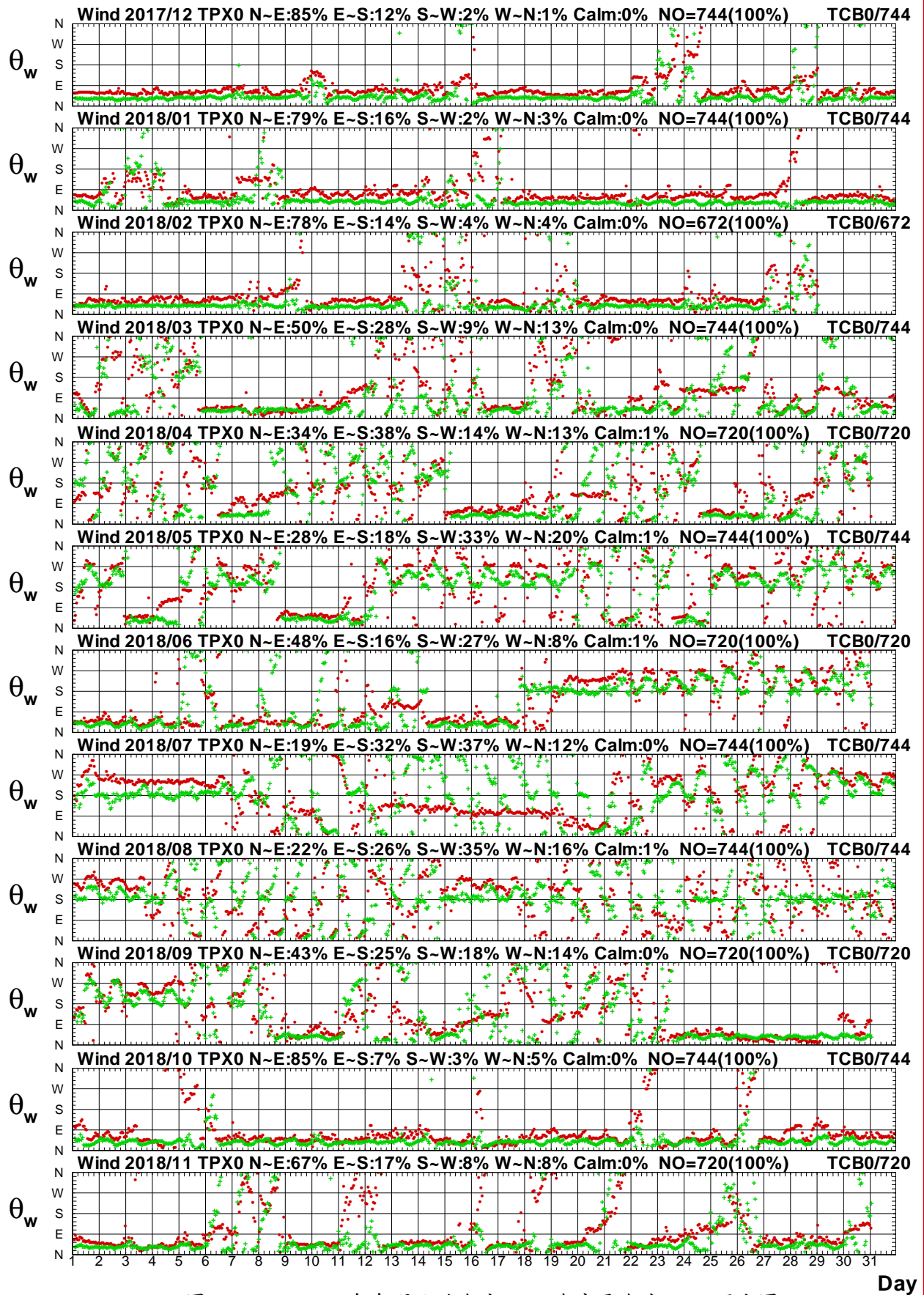


圖 1.3.18b 2018 年每月北苗海域 X 站與中雲海域 B 站風向圖

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 W183TPX0.1HA W183TCB0.1H0 W184TPX0.1HA W184TCB0.1H0 W185TPX0.1HA W185TCB0.1H0

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# Wind Speed in Pei-Miao Seas of TPX0 at 2018

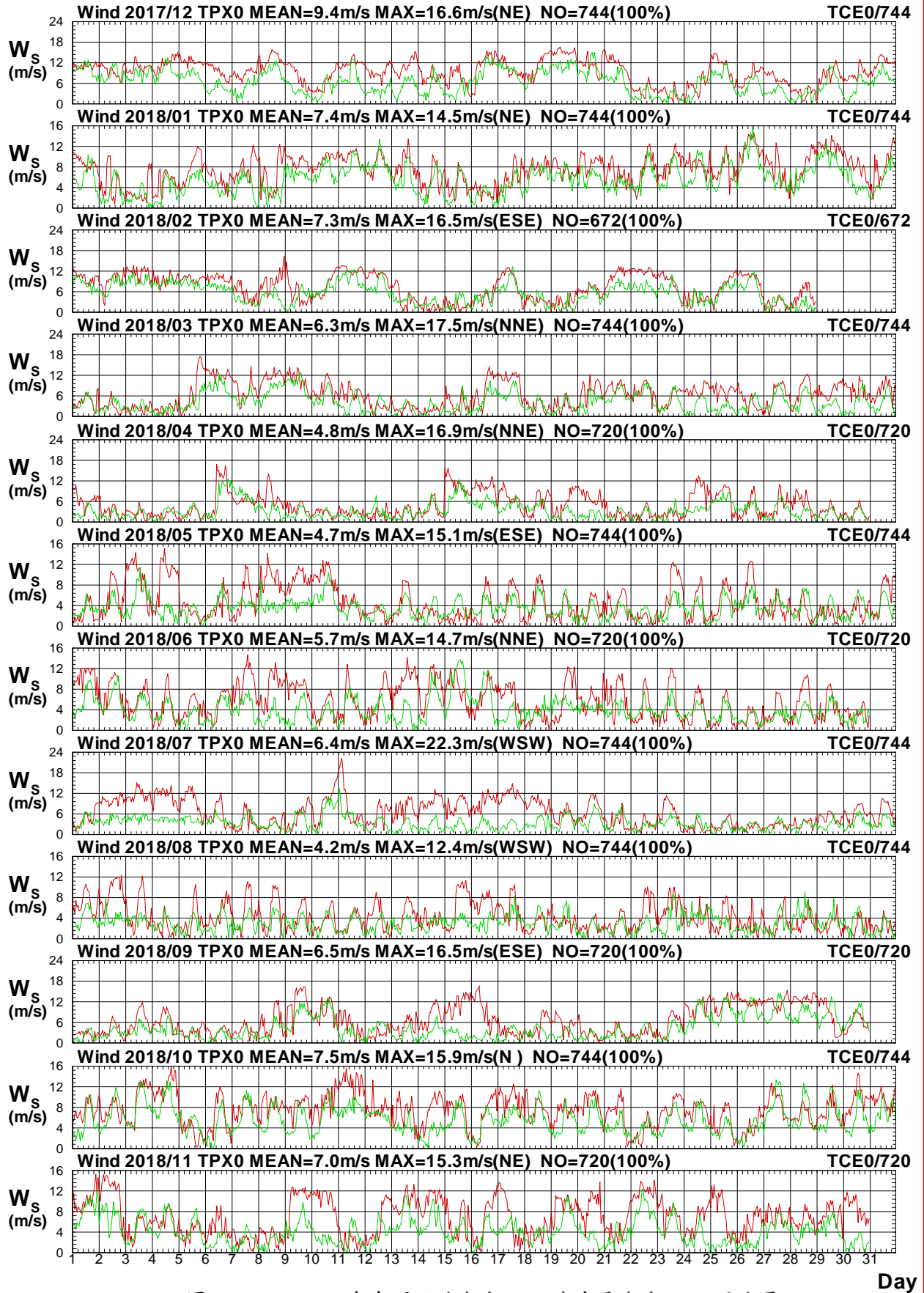


圖1.3.19a 2018年每月北苗海域 X 站與中雲海域 E 站風速圖

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 W183TPX0.1HA W183TCE0.1H0 W184TPX0.1HA W184TCE0.1H0 W185TPX0.1HA W185TCE0.1H0

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# Wind Direction in Pei-Miao Seas of TPX0 at 2018

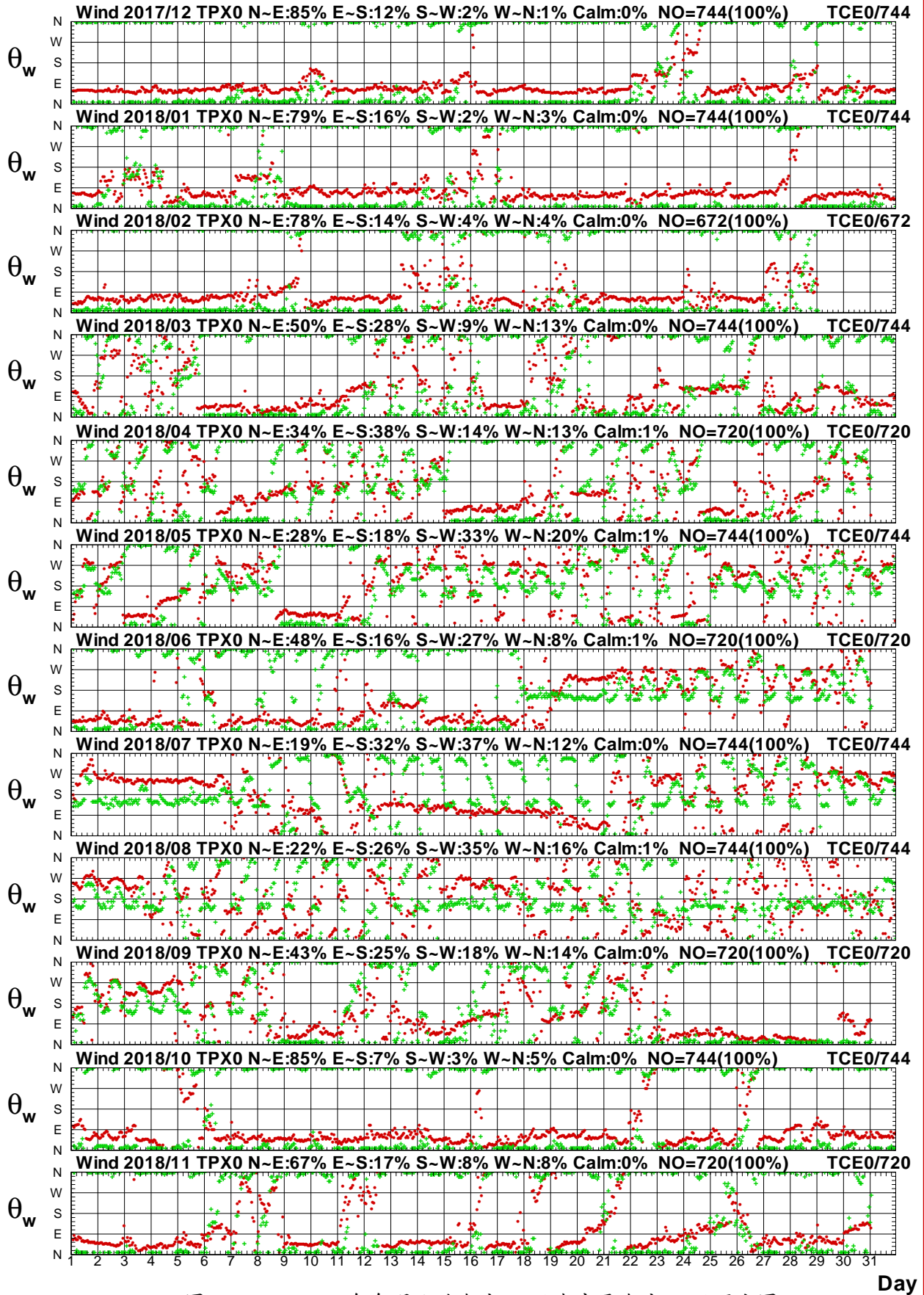


圖1.3.19b 2018年每月北苗海域 X 站與中雲海域 E 站風向圖

W17CTPX0.1HA W17CTCE0.1H0 W181TPX0.1HA W181TCE0.1H0 W182TPX0.1HA W182TCE0.1H0  
 W183TPX0.1HA W183TCE0.1H0 W184TPX0.1HA W184TCE0.1H0 W185TPX0.1HA W185TCE0.1H0

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# Wind Speed in Pei-Miao Seas of TPX0 at 2018

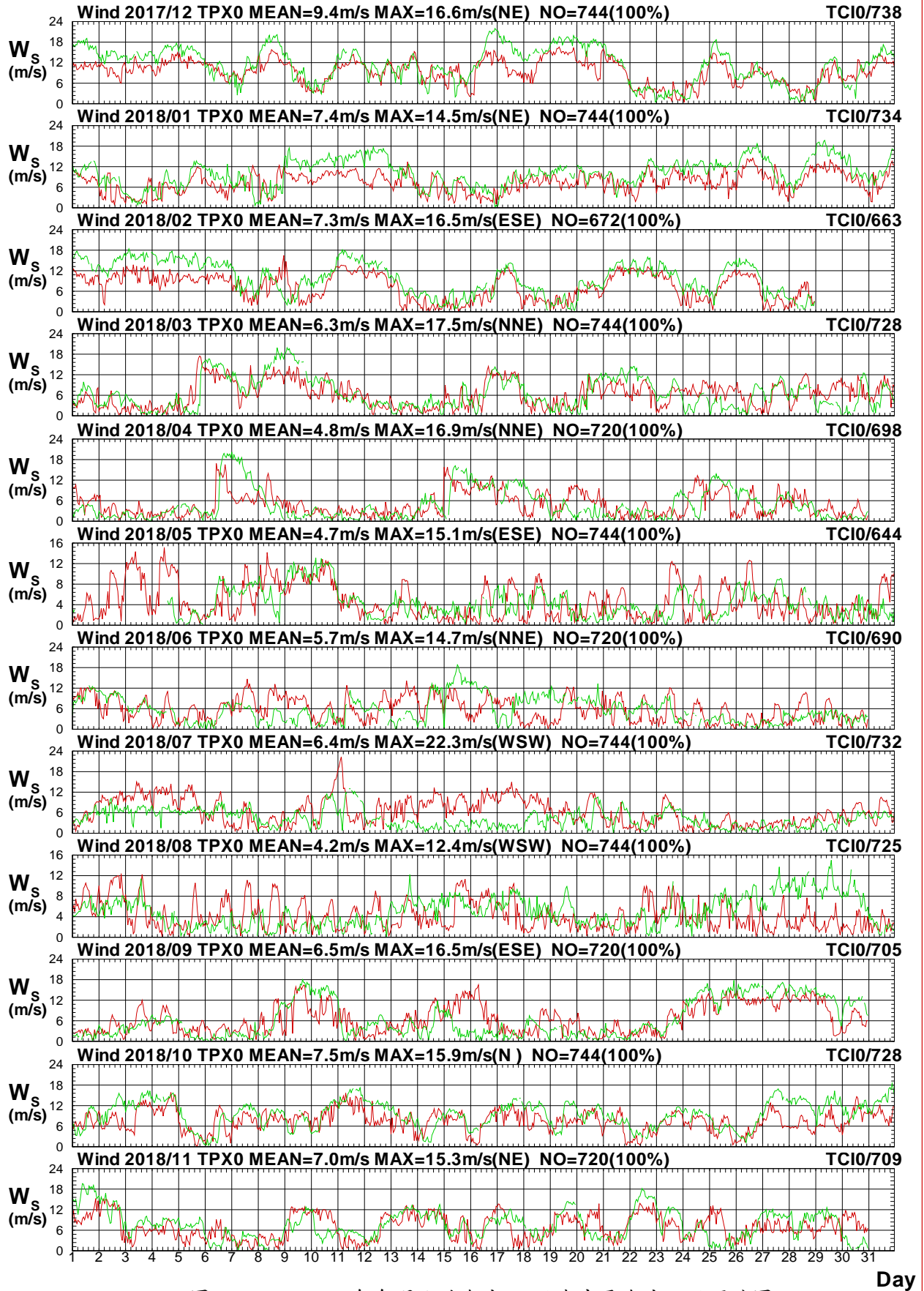


圖1.3.20a 2018年每月北苗海域 X 站與中雲海域 I 站風速圖

W17TPX0.1HA W17TCI0.1H0 W181TPX0.1HA W181TCI0.1H0 W182TPX0.1HA W182TCI0.1H0  
 W183TPX0.1HA W183TCI0.1H0 W184TPX0.1HA W184TCI0.1H0 W185TPX0.1HA W185TCI0.1H0

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# Wind Direction in Pei-Miao Seas of TPX0 at 2018

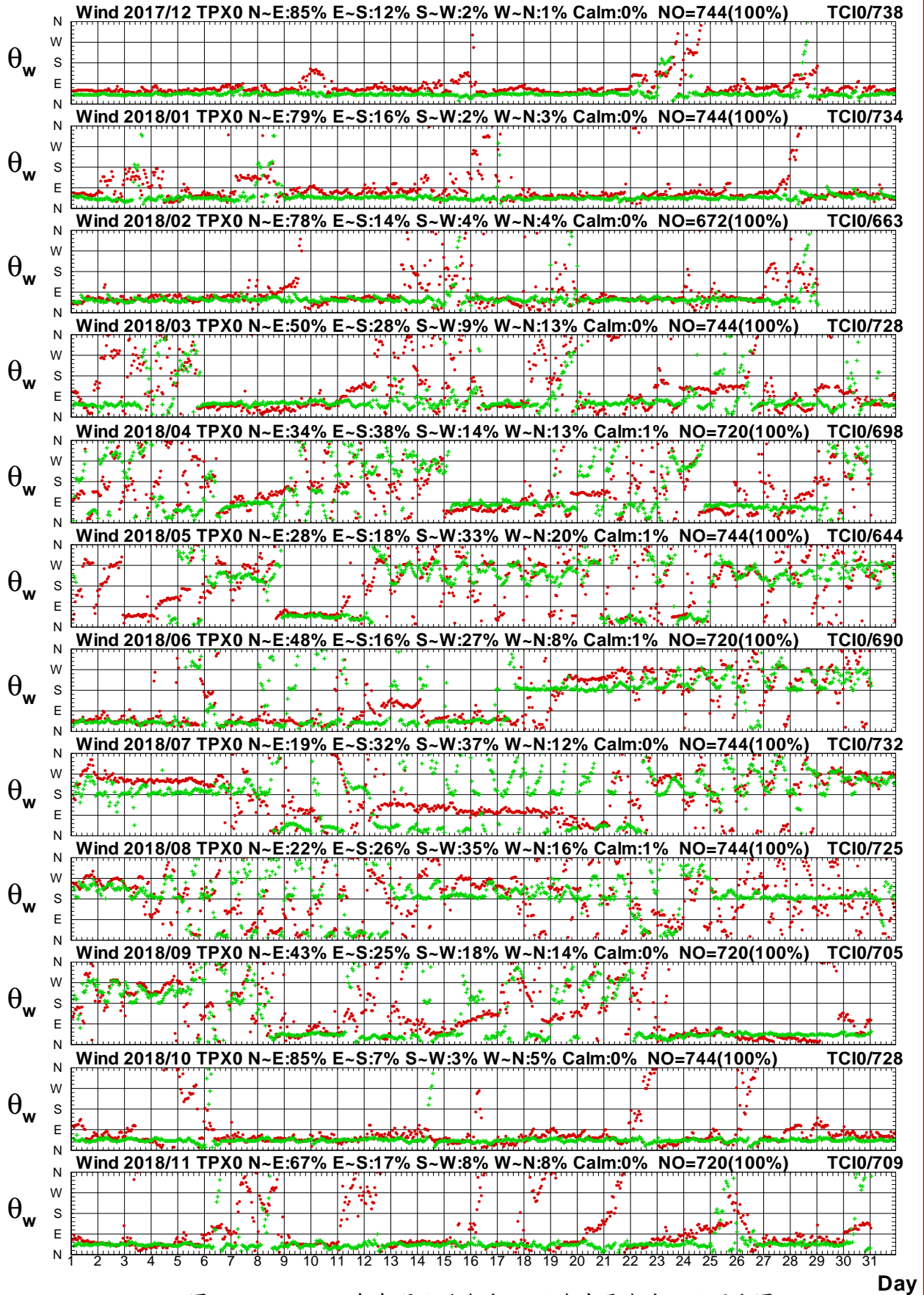


圖1.3.20b 2018年每月北苗海域 X 站與中雲海域 I 站風向圖

W17TPX0.1HA W17TCI0.1H0 W181TPX0.1HA W181TCI0.1H0 W182TPX0.1HA W182TCI0.1H0  
 W183TPX0.1HA W183TCI0.1H0 W184TPX0.1HA W184TCI0.1H0 W185TPX0.1HA W185TCI0.1H0

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## 1.4 2018年北苗海域風力**主要測站2**(修補後)與 **其他測站**(修補前)每月風力歷線比較圖





# Wind Speed in Pei-Miao Seas of TPY0 at 2018

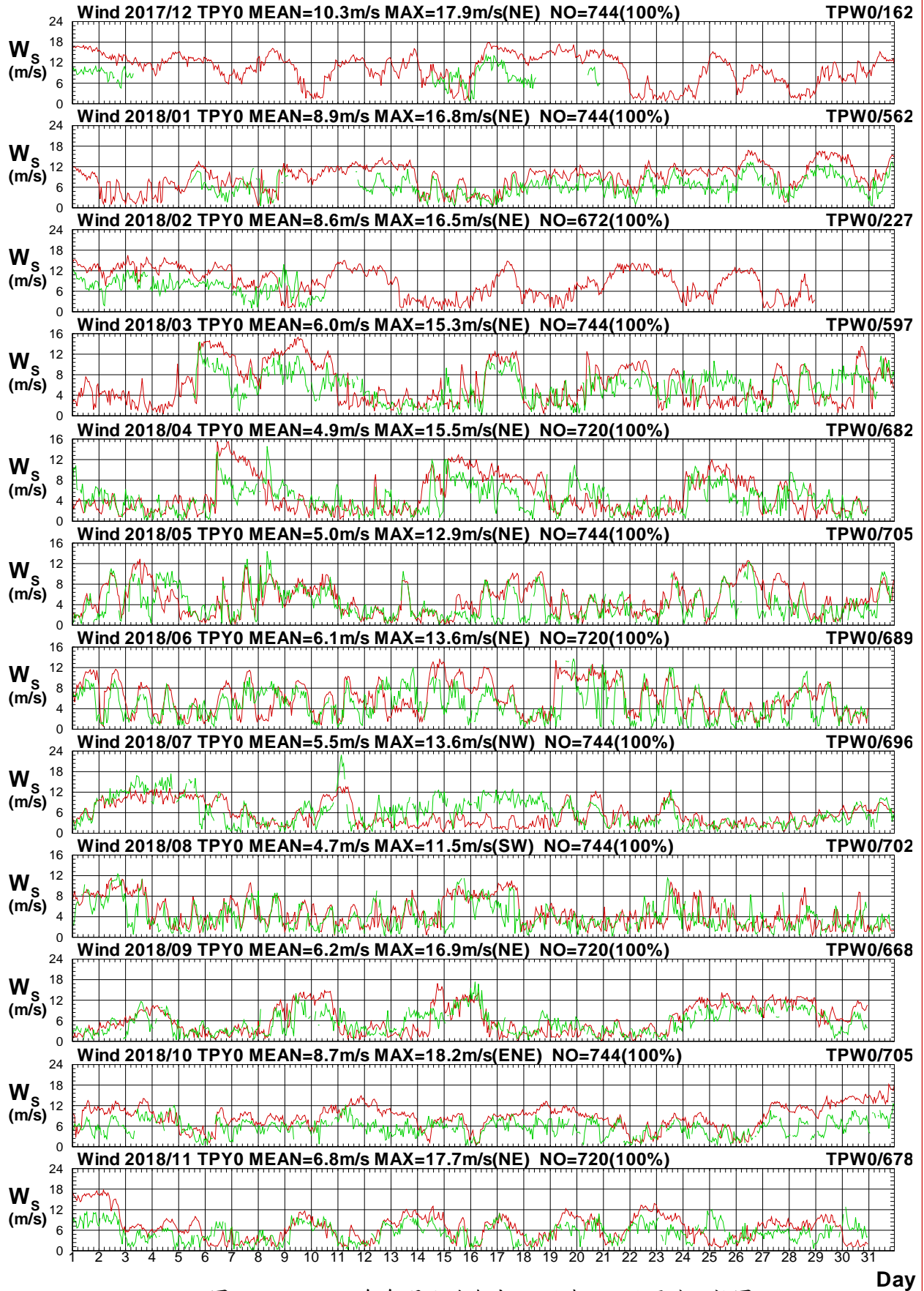


圖1.4.1a 2018年每月北苗海域 Y 站與 W 站風速比較圖

W17CTPY0.1HA W17CTPW0.1HO W181TPY0.1HA W181TPW0.1HO W182TPY0.1HA W182TPW0.1HO  
 W183TPY0.1HA W183TPW0.1HO W184TPY0.1HA W184TPW0.1HO W185TPY0.1HA W185TPW0.1HO

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# Wind Direction in Pei-Miao Seas of TPY0 at 2018

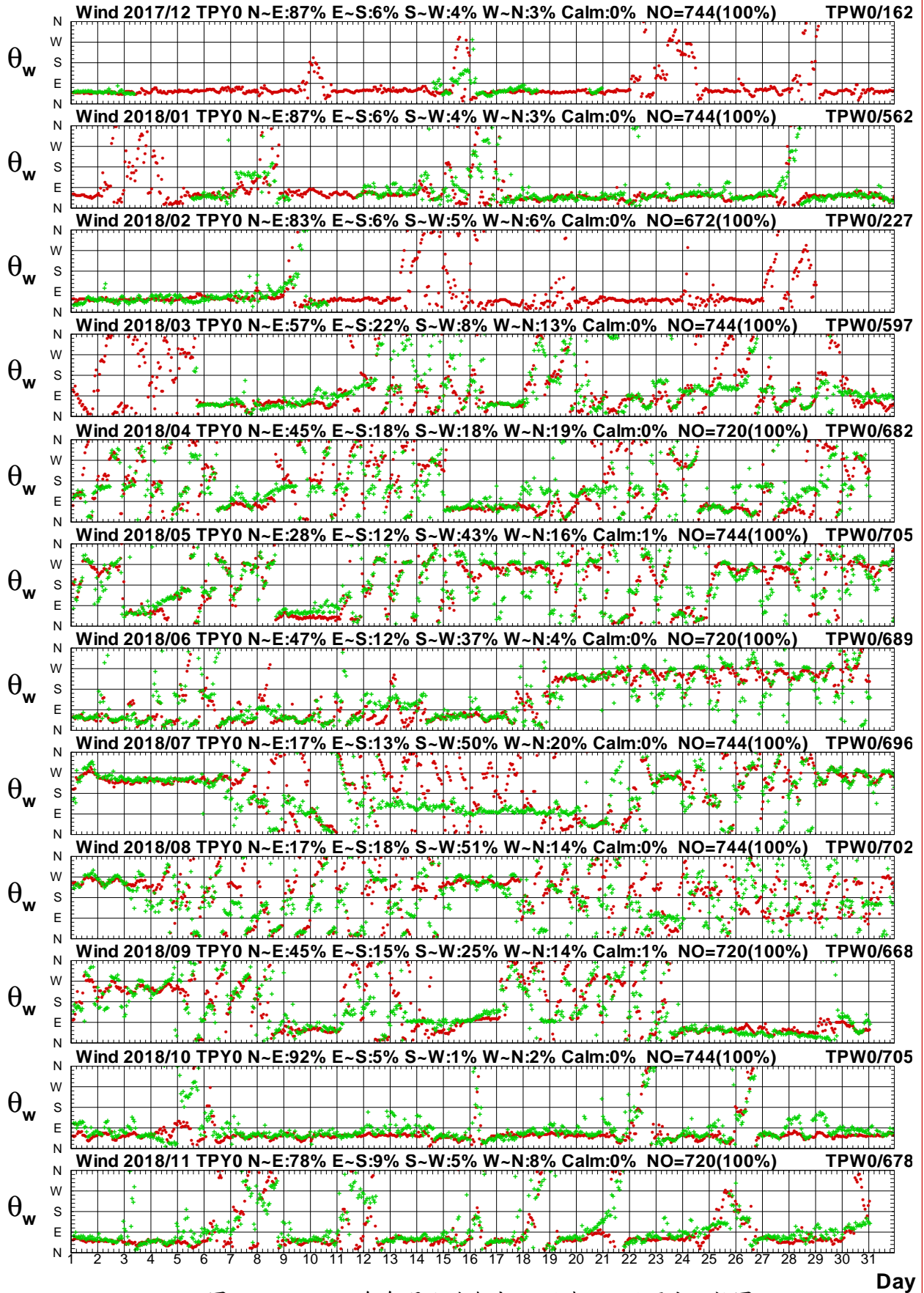


圖1.4.1b 2018年每月北苗海域 Y 站與 W 站風向比較圖

W17CTPY0.1HA W17CTPW0.1HO W181TPY0.1HA W181TPW0.1HO W182TPY0.1HA W182TPW0.1HO  
 W183TPY0.1HA W183TPW0.1HO W184TPY0.1HA W184TPW0.1HO W185TPY0.1HA W185TPW0.1HO

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# Wind Speed in Pei-Miao Seas of TPY0 at 2018

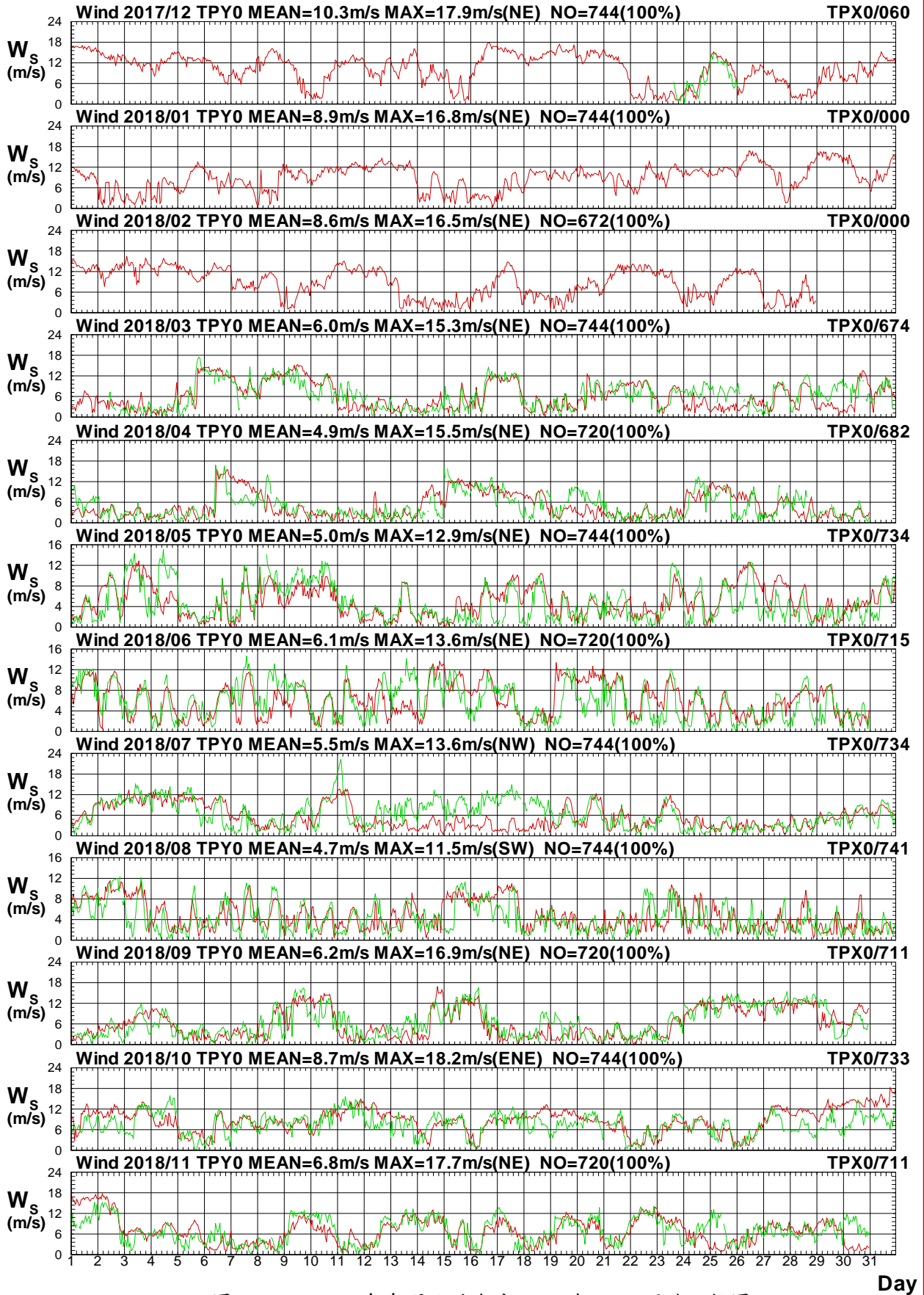


圖1.4.2a 2018年每月北苗海域 Y 站與 X 站風速比較圖

W17CTPY0.1HA W17CTPX0.1H0 W181TPY0.1HA W181TPX0.1H0 W182TPY0.1HA W182TPX0.1H0  
 W183TPY0.1HA W183TPX0.1H0 W184TPY0.1HA W184TPX0.1H0 W185TPY0.1HA W185TPX0.1H0

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# Wind Direction in Pei-Miao Seas of TPY0 at 2018

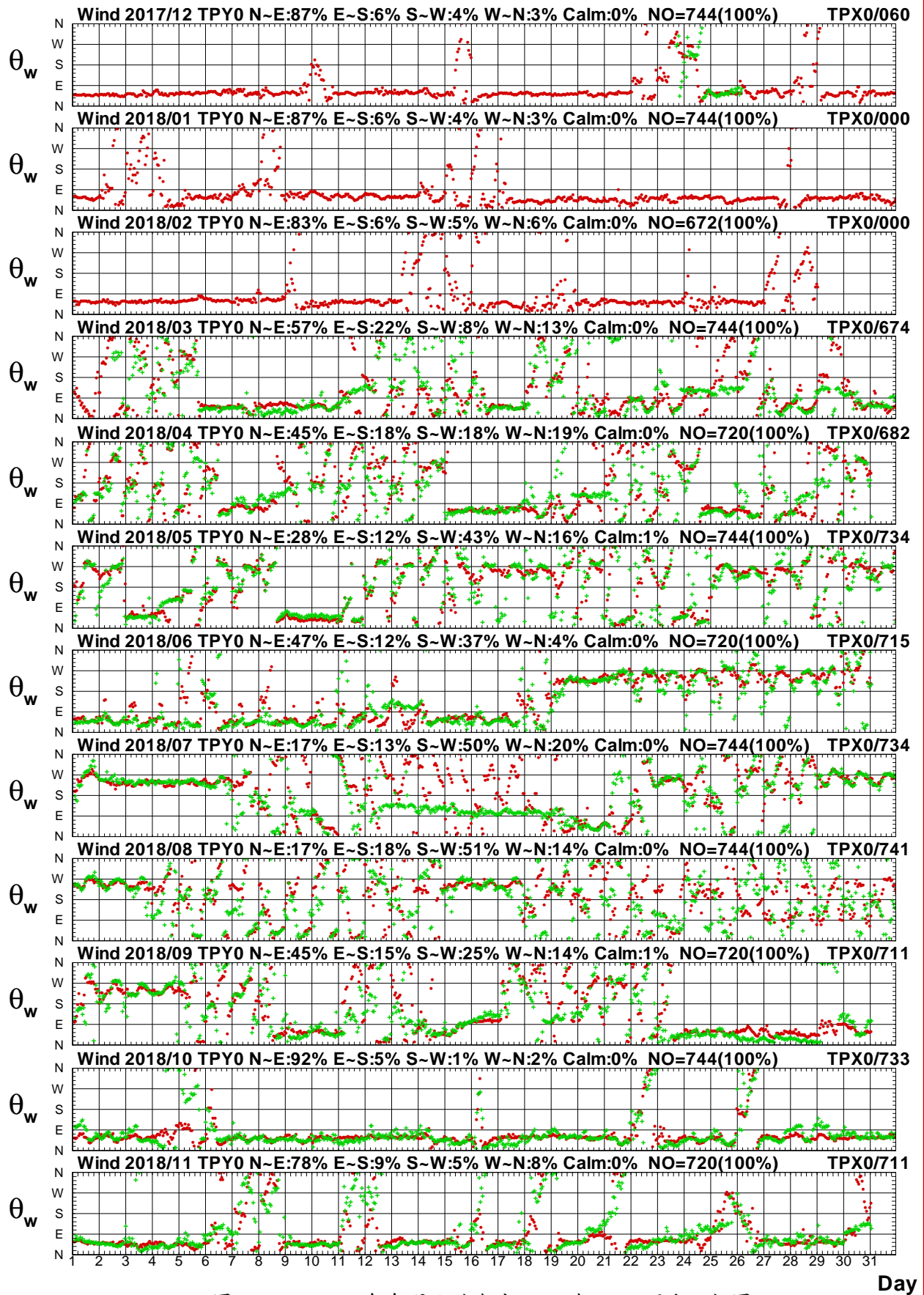


圖1.4.2b 2018年每月北苗海域 Y 站與 X 站風向比較圖

W17CTPY0.1HA W17CTPX0.1H0 W181TPY0.1HA W181TPX0.1H0 W182TPY0.1HA W182TPX0.1H0  
 W183TPY0.1HA W183TPX0.1H0 W184TPY0.1HA W184TPX0.1H0 W185TPY0.1HA W185TPX0.1H0

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# Wind Speed in Pei-Miao Seas of TPY0 at 2018

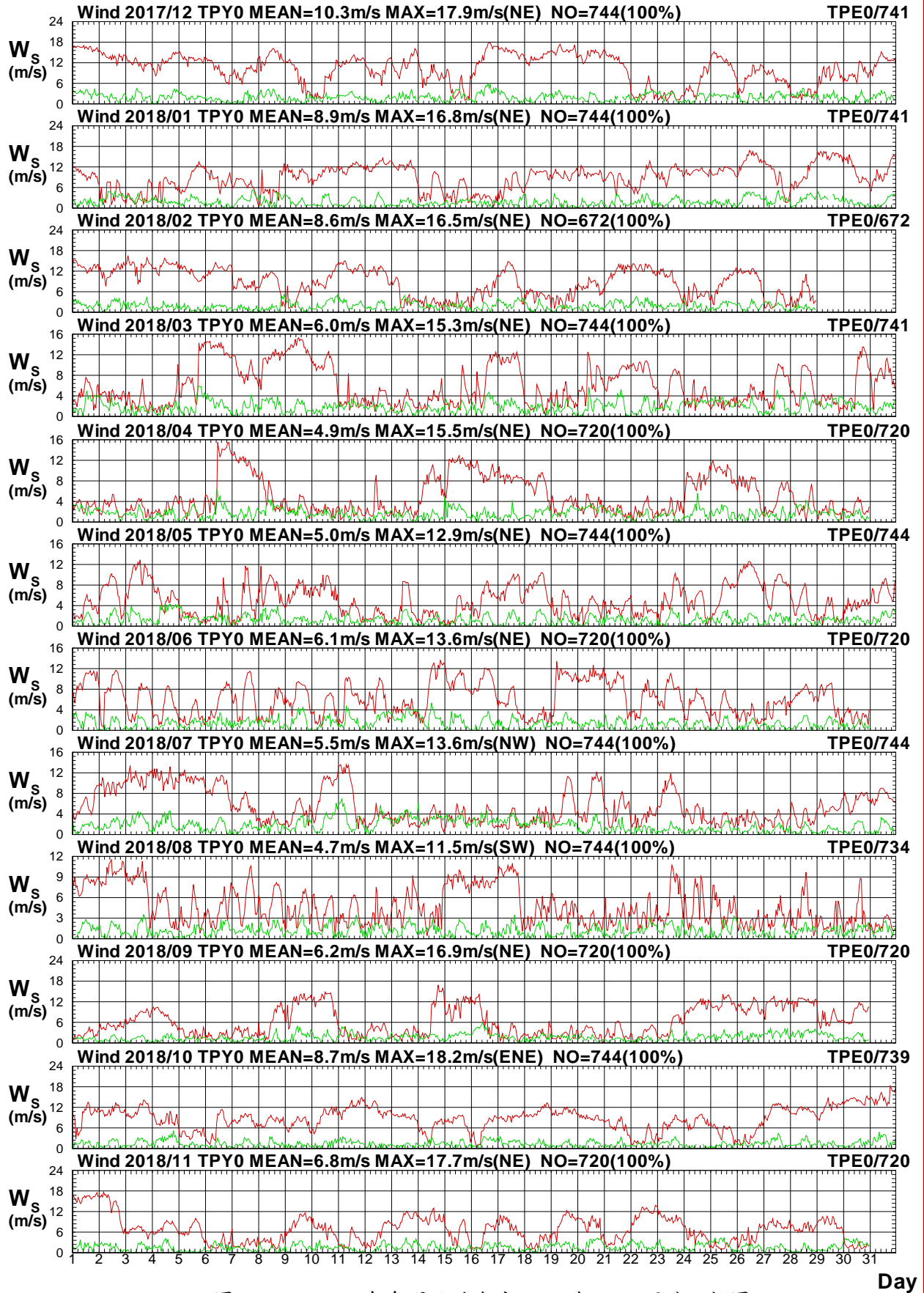


圖1.4.3a 2018年每月北苗海域 Y 站與 E 站風速比較圖

W17CTPY0.1HA W17CTPE0.1H0 W181TPY0.1HA W181TPE0.1H0 W182TPY0.1HA W182TPE0.1H0  
 W183TPY0.1HA W183TPE0.1H0 W184TPY0.1HA W184TPE0.1H0 W185TPY0.1HA W185TPE0.1H0

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# Wind Direction in Pei-Miao Seas of TPY0 at 2018

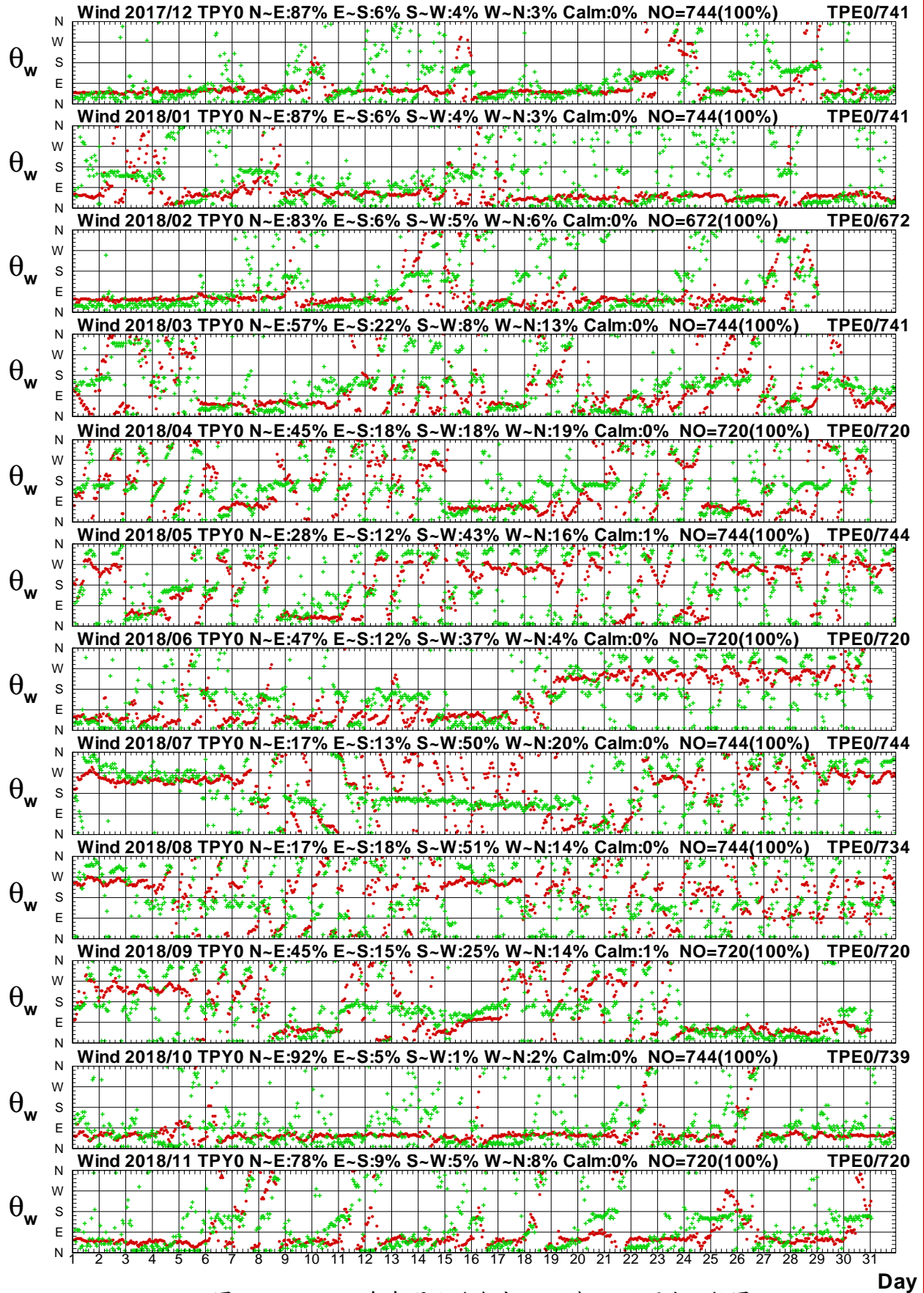


圖1.4.3b 2018年每月北苗海域 Y 站與 E 站風向比較圖

W17CTPY0.1HA W17CTPE0.1H0 W181TPY0.1HA W181TPE0.1H0 W182TPY0.1HA W182TPE0.1H0  
 W183TPY0.1HA W183TPE0.1H0 W184TPY0.1HA W184TPE0.1H0 W185TPY0.1HA W185TPE0.1H0

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# Wind Speed in Pei-Miao Seas of TPY0 at 2018

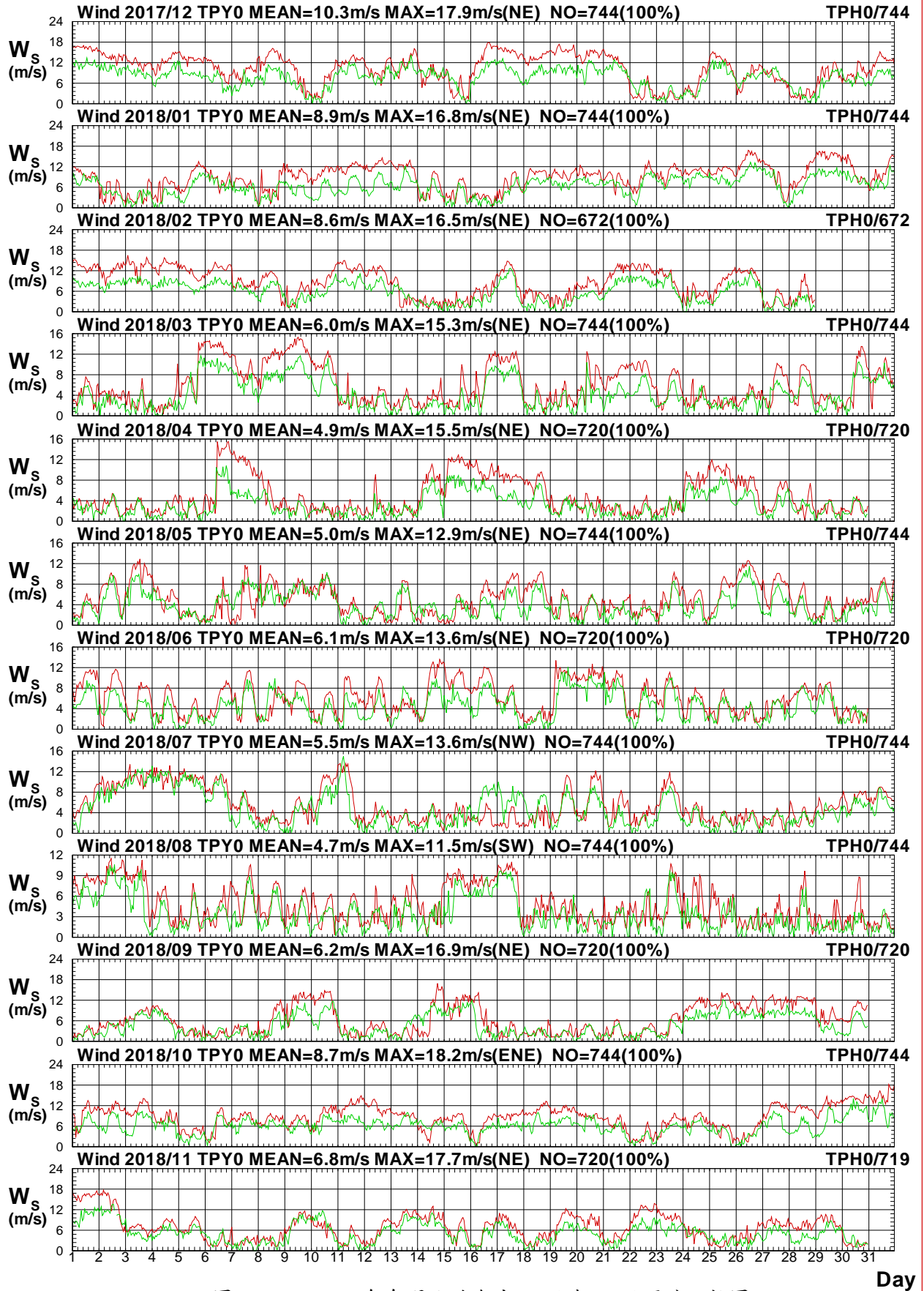


圖1.4.4a 2018年每月北苗海域 Y 站與 H 站風速比較圖

W17CTPY0.1HA W17CTPH0.1H0 W181TPY0.1HA W181TPH0.1H0 W182TPY0.1HA W182TPH0.1H0  
 W183TPY0.1HA W183TPH0.1H0 W184TPY0.1HA W184TPH0.1H0 W185TPY0.1HA W185TPH0.1H0

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# Wind Direction in Pei-Miao Seas of TPY0 at 2018

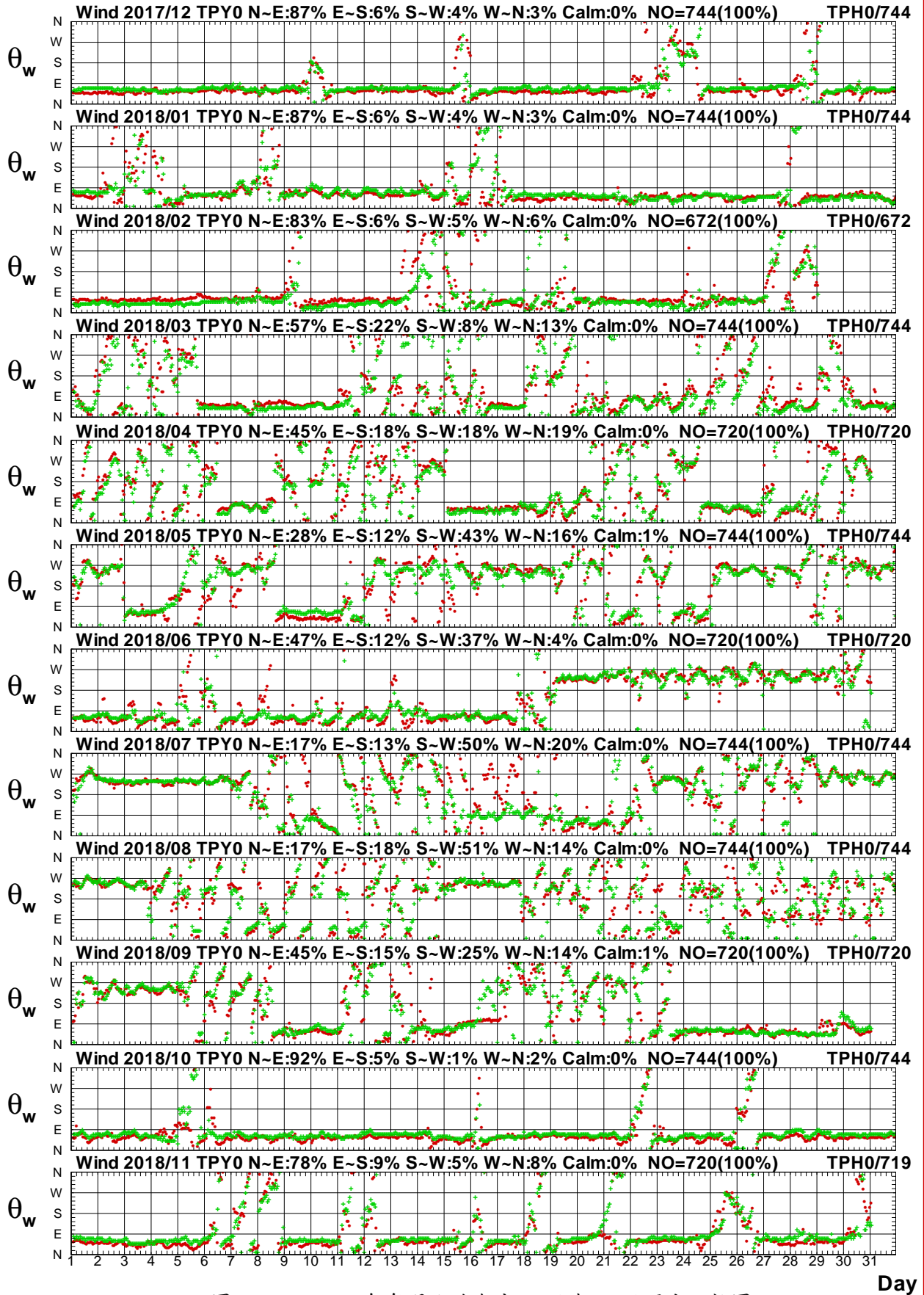


圖1.4.4b 2018年每月北苗海域 Y 站與 H 站風向比較圖

W17CTPY0.1HA W17CTPH0.1H0 W181TPY0.1HA W181TPH0.1H0 W182TPY0.1HA W182TPH0.1H0  
 W183TPY0.1HA W183TPH0.1H0 W184TPY0.1HA W184TPH0.1H0 W185TPY0.1HA W185TPH0.1H0

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# Wind Speed in Pei-Miao Seas of TPY0 at 2018

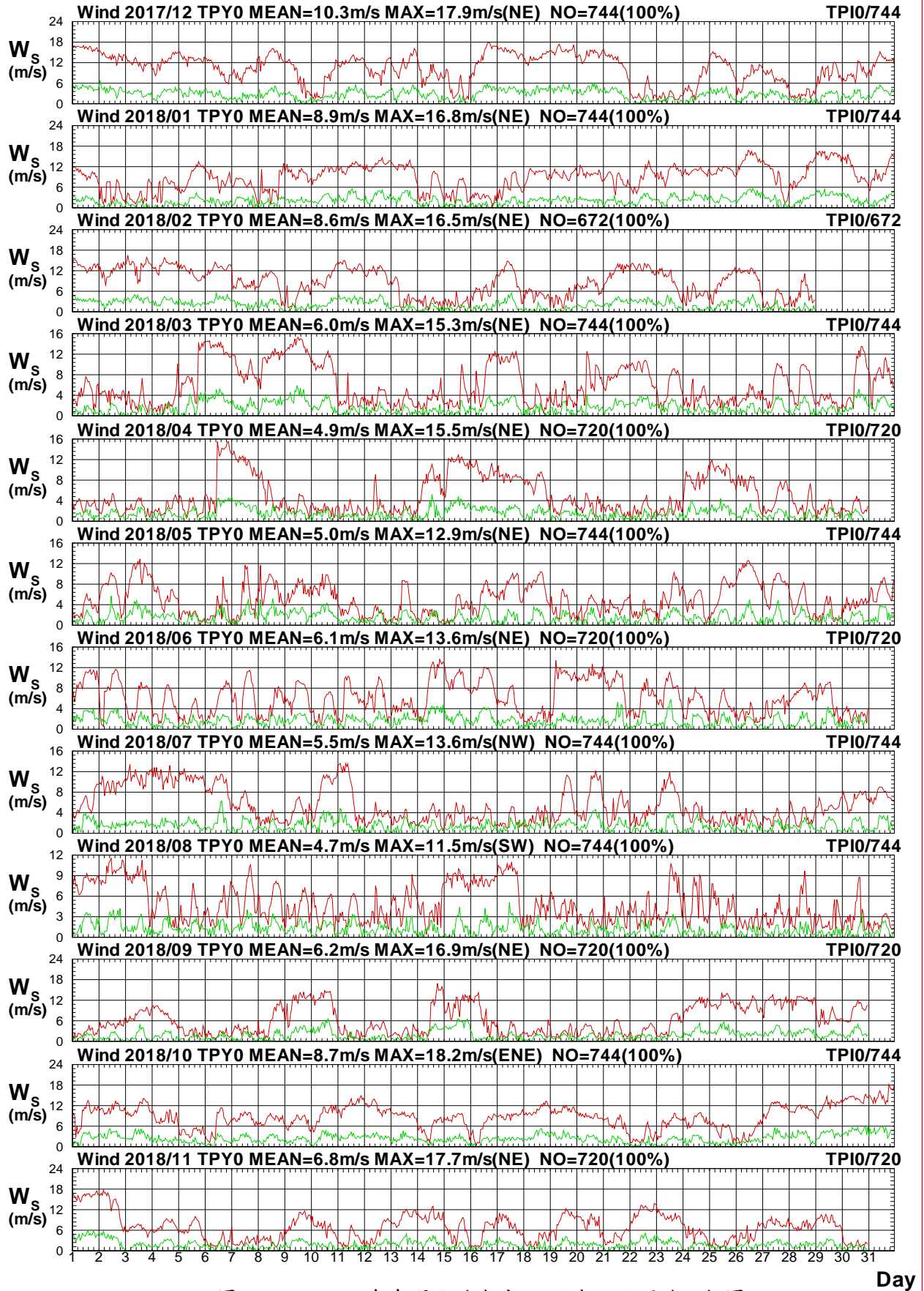


圖1.4.5a 2018年每月北苗海域 Y 站與 I 站風速比較圖

W17CTPY0.1HA W17CTPI0.1H0 W181TPY0.1HA W181TPI0.1H0 W182TPY0.1HA W182TPI0.1H0  
 W183TPY0.1HA W183TPI0.1H0 W184TPY0.1HA W184TPI0.1H0 W185TPY0.1HA W185TPI0.1H0

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# Wind Direction in Pei-Miao Seas of TPY0 at 2018

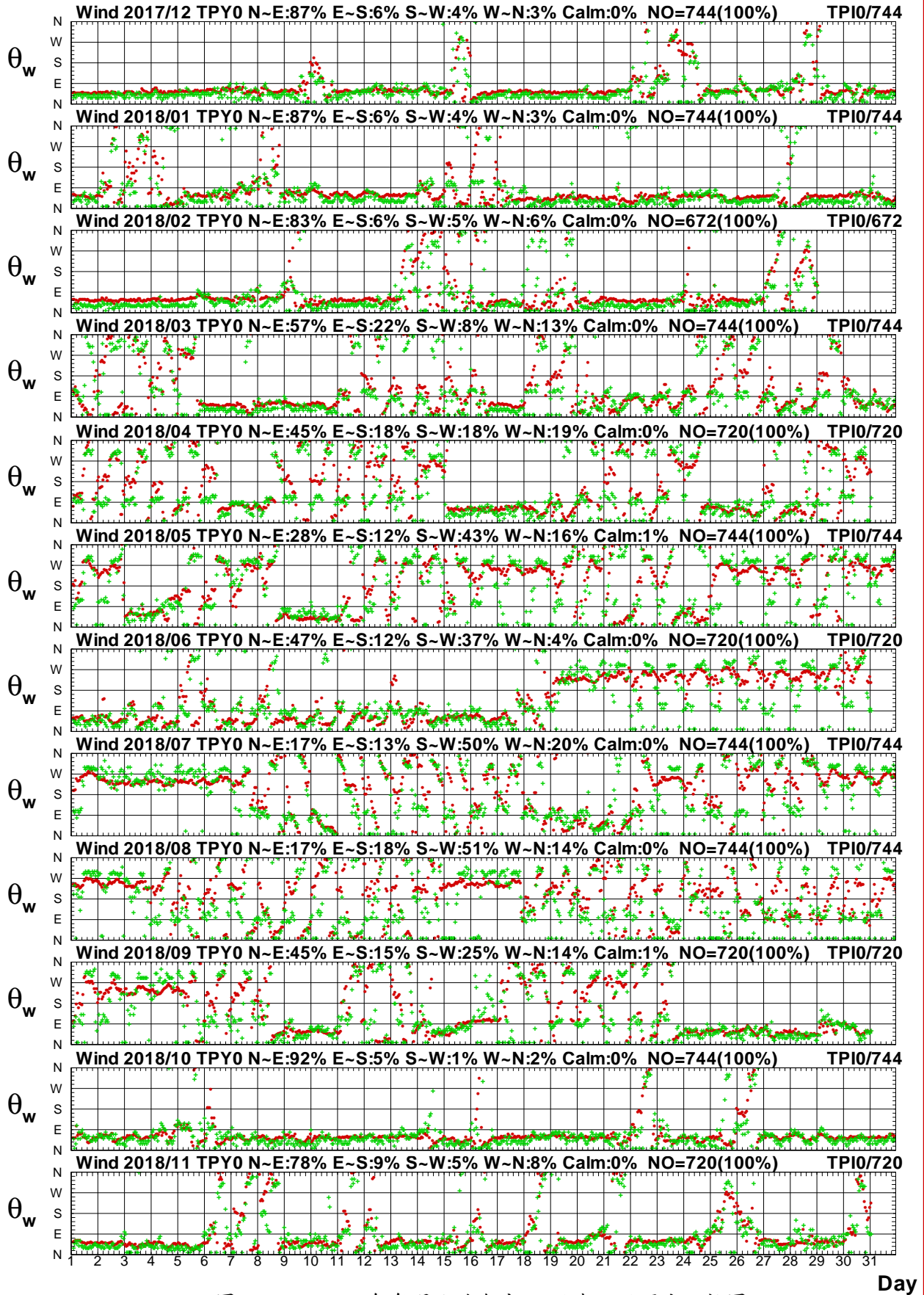


圖1.4.5b 2018年每月北苗海域 Y 站與 I 站風向比較圖

W17CTPY0.1HA W17CTPI0.1H0 W181TPY0.1HA W181TPI0.1H0 W182TPY0.1HA W182TPI0.1H0  
 W183TPY0.1HA W183TPI0.1H0 W184TPY0.1HA W184TPI0.1H0 W185TPY0.1HA W185TPI0.1H0

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# Wind Speed in Pei-Miao Seas of TPY0 at 2018

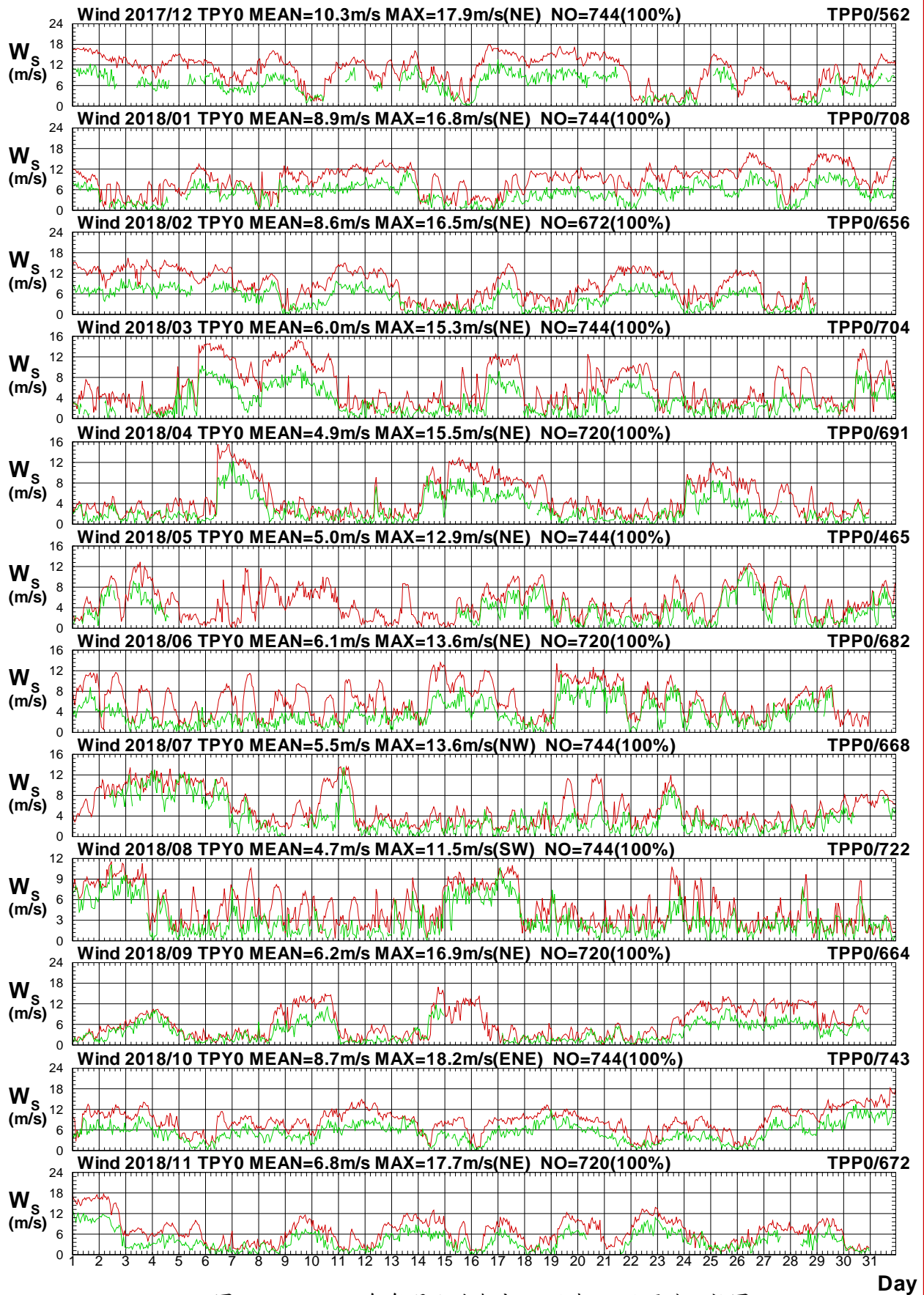


圖1.4.6a 2018年每月北苗海域 Y 站與 P 站風速比較圖

W17CTPY0.1HA W17CTPP0.1H0 W181TPY0.1HA W181TPP0.1H0 W182TPY0.1HA W182TPP0.1H0  
 W183TPY0.1HA W183TPP0.1H0 W184TPY0.1HA W184TPP0.1H0 W185TPY0.1HA W185TPP0.1H0

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# Wind Direction in Pei-Miao Seas of TPY0 at 2018

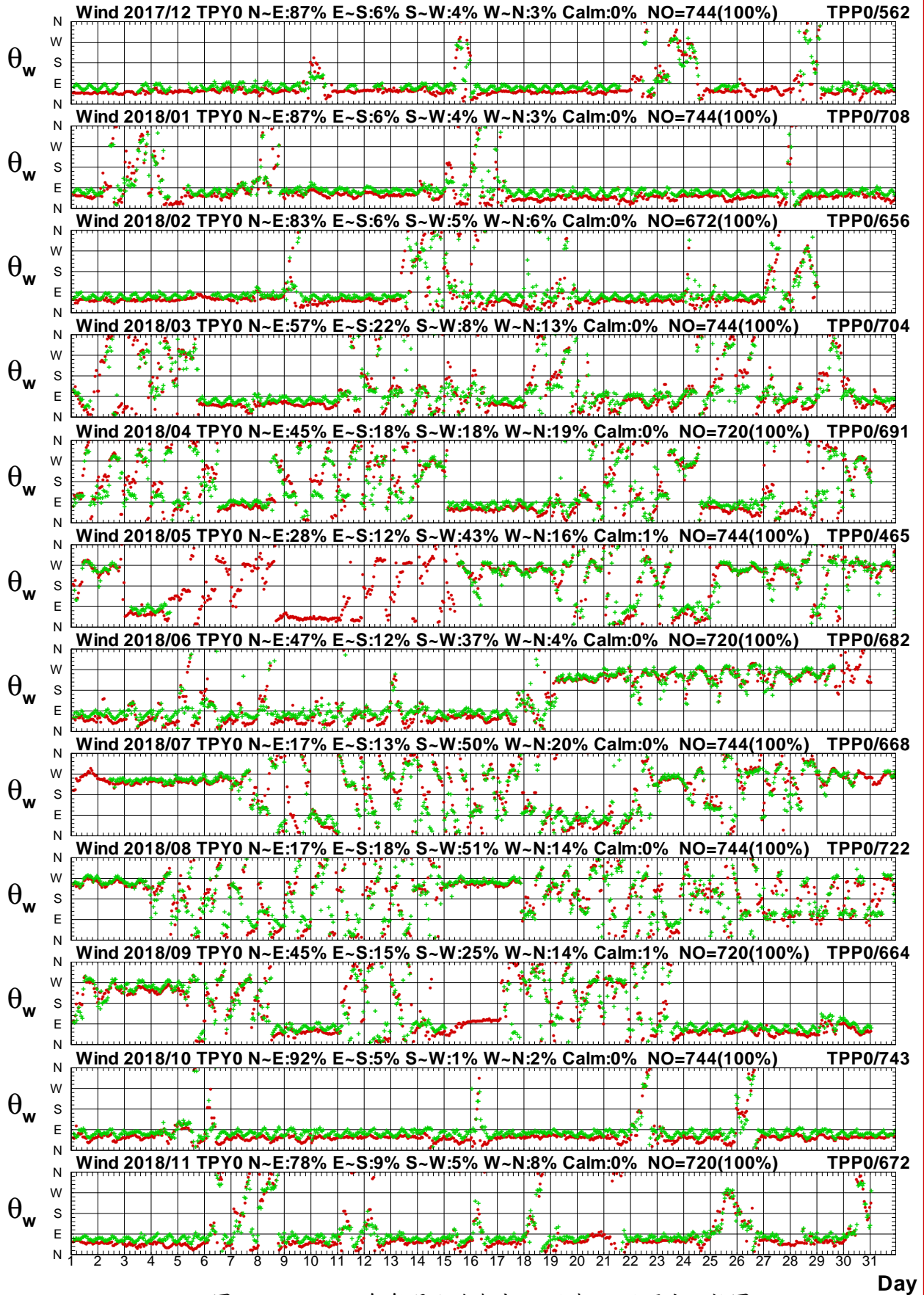


圖1.4.6b 2018年每月北苗海域 Y 站與 P 站風向比較圖

W17CTPY0.1HA W17CTPP0.1H0 W181TPY0.1HA W181TPP0.1H0 W182TPY0.1HA W182TPP0.1H0  
 W183TPY0.1HA W183TPP0.1H0 W184TPY0.1HA W184TPP0.1H0 W185TPY0.1HA W185TPP0.1H0

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# Wind Speed in Pei-Miao Seas of TPY0 at 2018

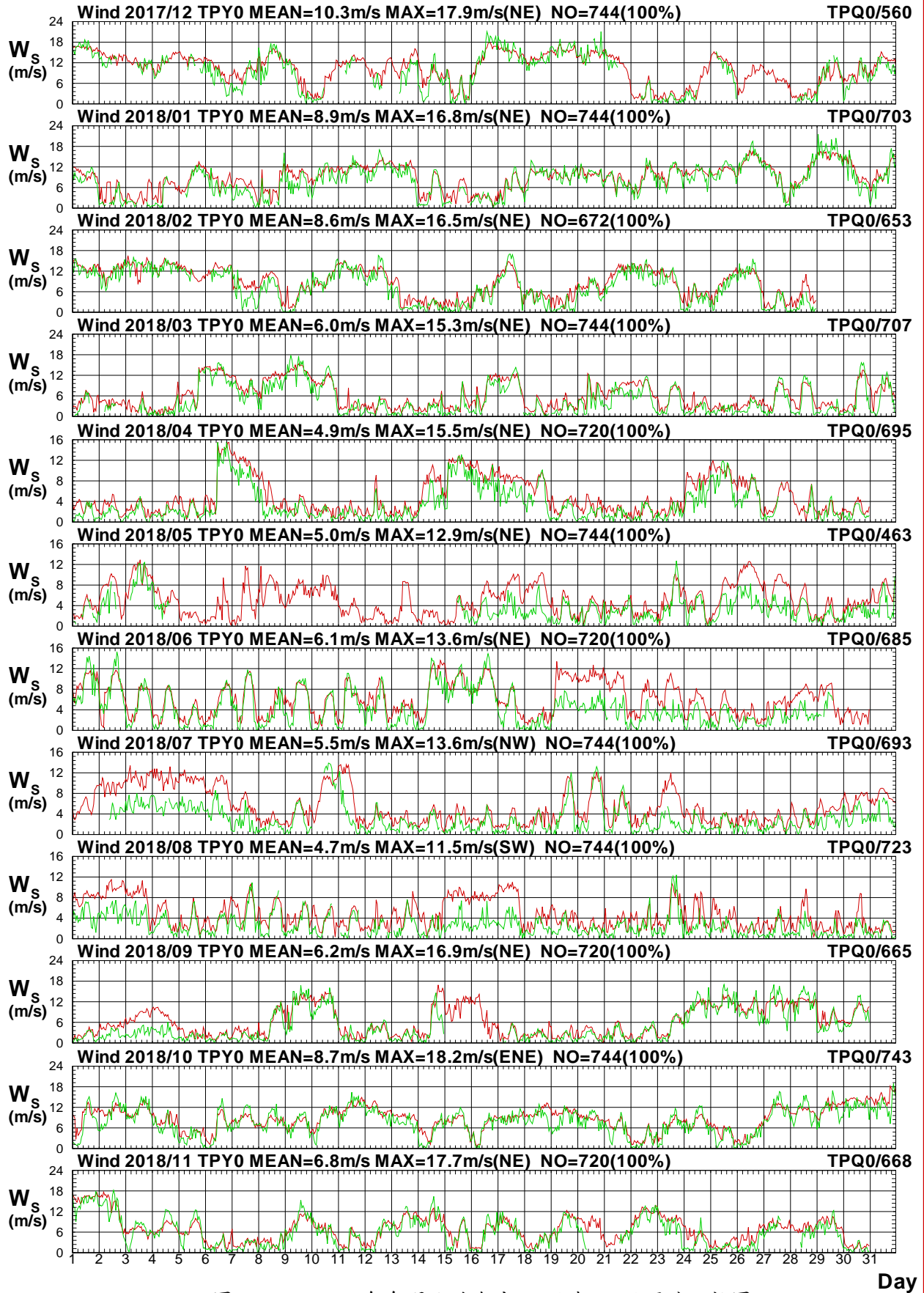


圖1.4.7a 2018年每月北苗海域 Y 站與 Q 站風速比較圖

W17CTPY0.1HA W17CTPQ0.1H0 W181TPY0.1HA W181TPQ0.1H0 W182TPY0.1HA W182TPQ0.1H0  
 W183TPY0.1HA W183TPQ0.1H0 W184TPY0.1HA W184TPQ0.1H0 W185TPY0.1HA W185TPQ0.1H0

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# Wind Direction in Pei-Miao Seas of TPY0 at 2018

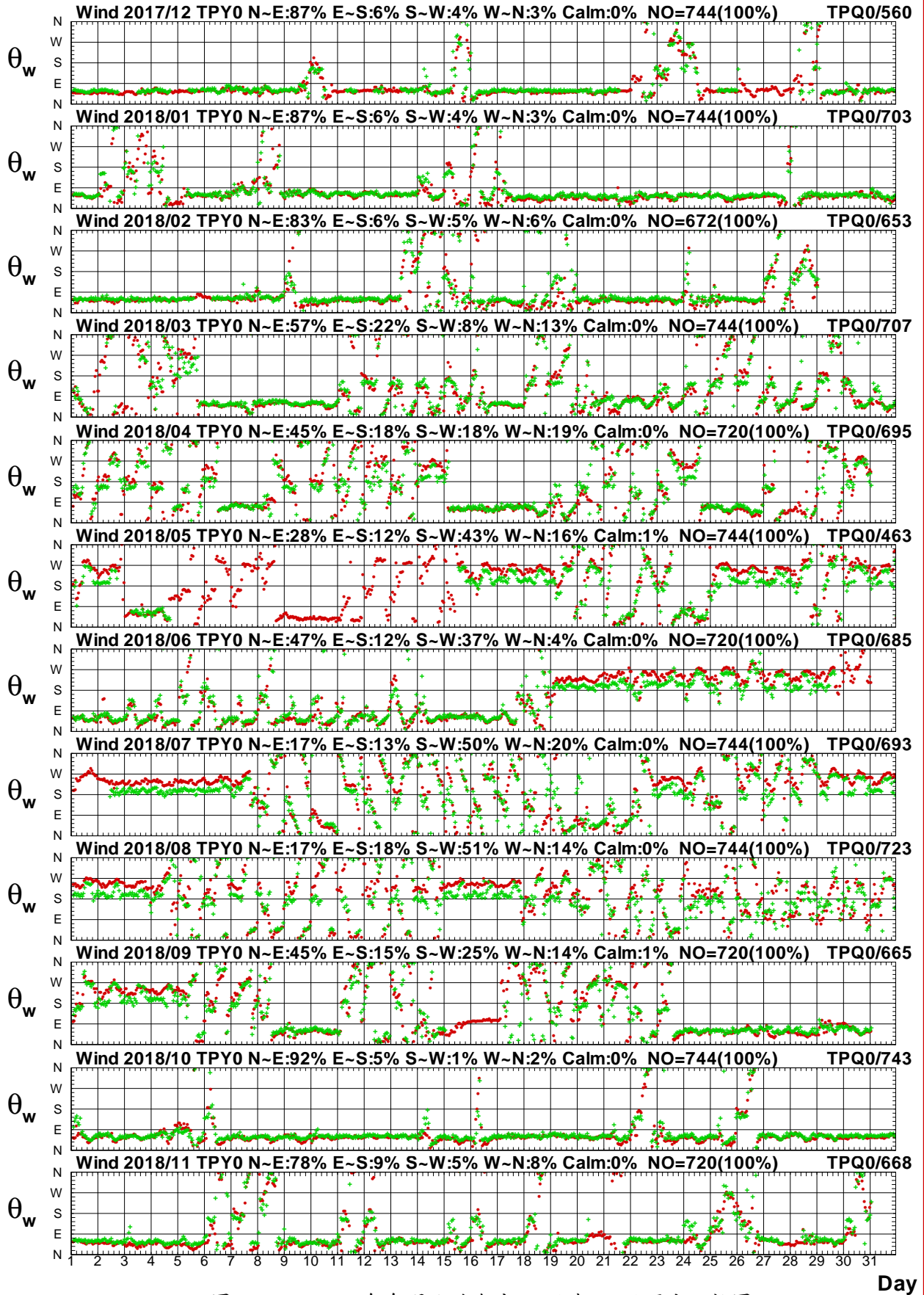


圖1.4.7b 2018年每月北苗海域 Y 站與 Q 站風向比較圖

W17CTPY0.1HA W17CTPQ0.1HO W181TPY0.1HA W181TPQ0.1HO W182TPY0.1HA W182TPQ0.1HO  
 W183TPY0.1HA W183TPQ0.1HO W184TPY0.1HA W184TPQ0.1HO W185TPY0.1HA W185TPQ0.1HO

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# Wind Speed in Pei-Miao Seas of TPY0 at 2018

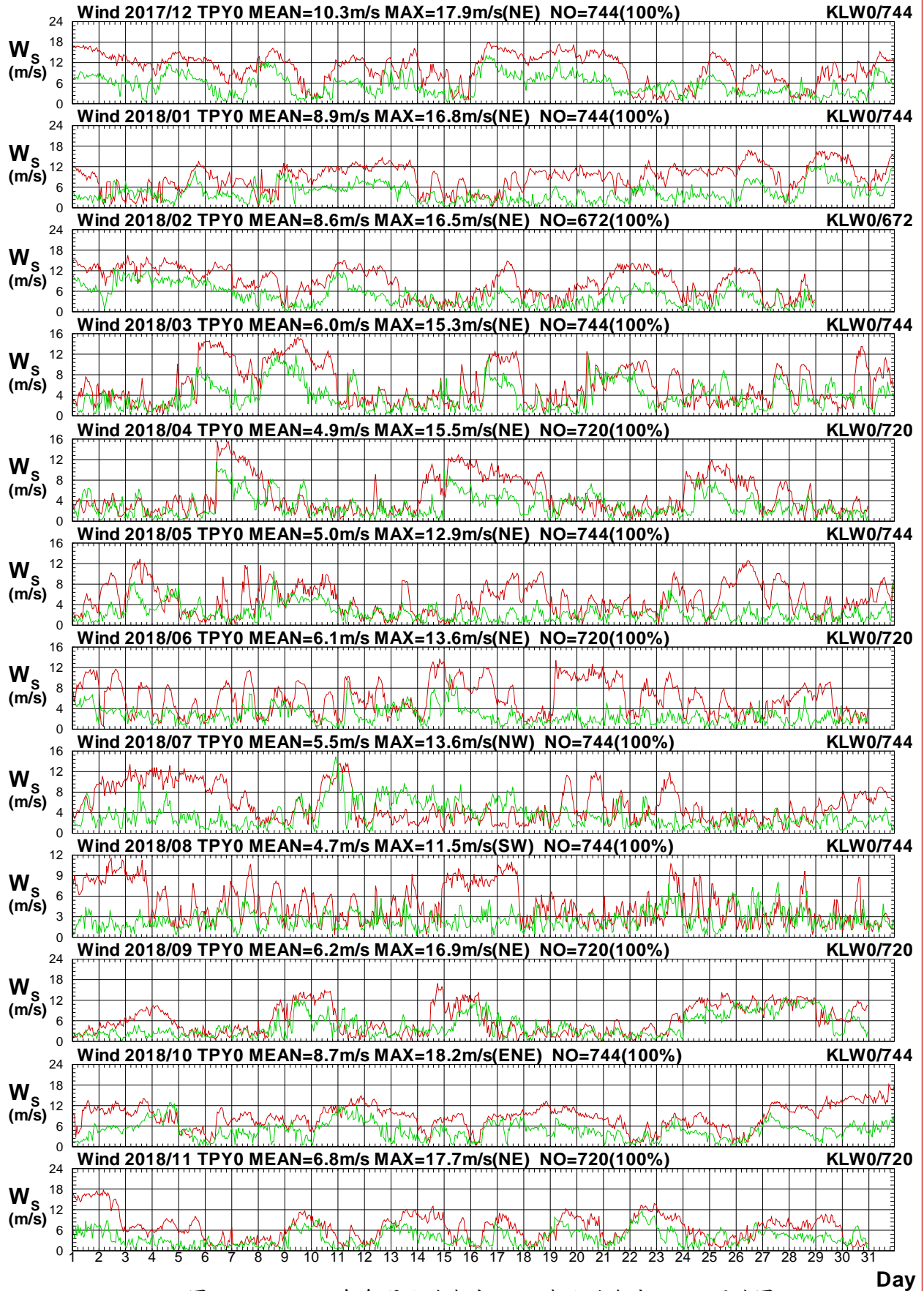


圖 1.4.8a 2018 年每月北苗海域 Y 站與北端海域 W 站風速圖

W17TPY0.1HA W17CKLW0.1HO W181TPY0.1HA W181KLW0.1HO W182TPY0.1HA W182KLW0.1HO  
 W183TPY0.1HA W183KLW0.1HO W184TPY0.1HA W184KLW0.1HO W185TPY0.1HA W185KLW0.1HO

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# Wind Direction in Pei-Miao Seas of TPY0 at 2018

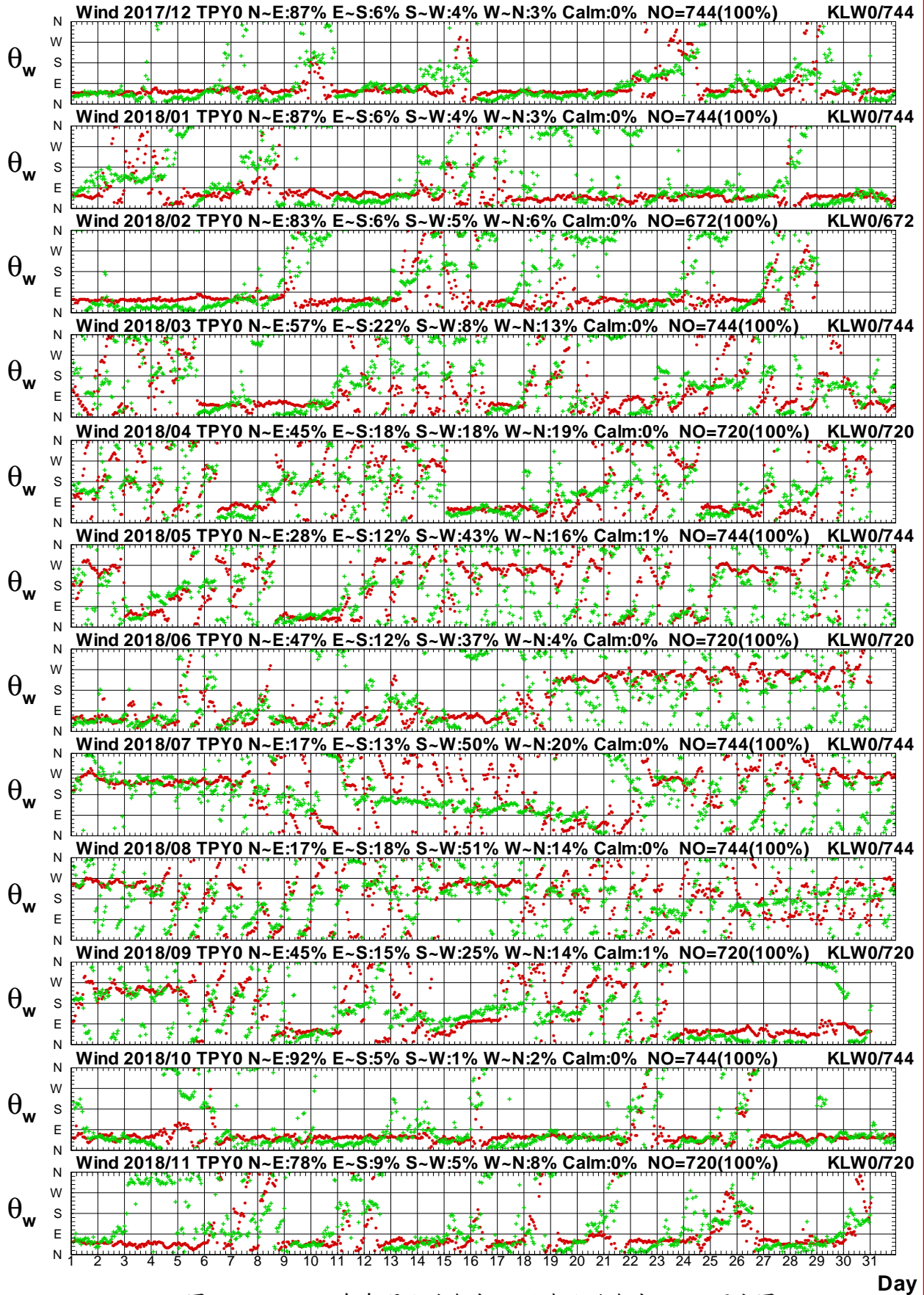


圖1.4.8b 2018年每月北苗海域 Y 站與北端海域 W 站風向圖

W17CTPY0.1HA W17CKLW0.1HO W181TPY0.1HA W181KLW0.1HO W182TPY0.1HA W182KLW0.1HO  
 W183TPY0.1HA W183KLW0.1HO W184TPY0.1HA W184KLW0.1HO W185TPY0.1HA W185KLW0.1HO

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# Wind Speed in Pei-Miao Seas of TPY0 at 2018

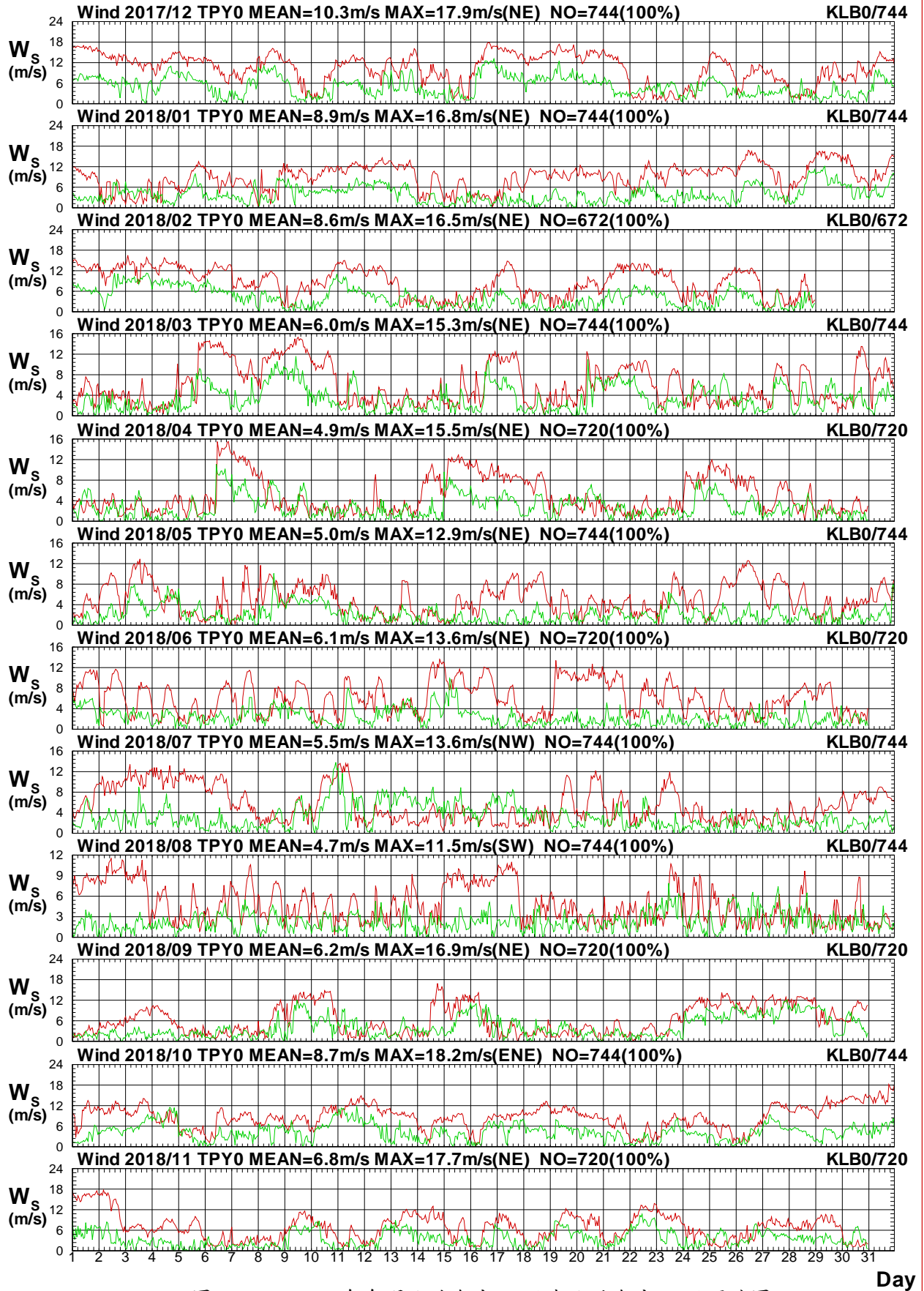


圖1.4.9a 2018年每月北苗海域 Y 站與北端海域 B 站風速圖

W17CTPY0.1HA W17CKLB0.1H0 W181TPY0.1HA W181KLB0.1H0 W182TPY0.1HA W182KLB0.1H0  
 W183TPY0.1HA W183KLB0.1H0 W184TPY0.1HA W184KLB0.1H0 W185TPY0.1HA W185KLB0.1H0

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# Wind Direction in Pei-Miao Seas of TPY0 at 2018

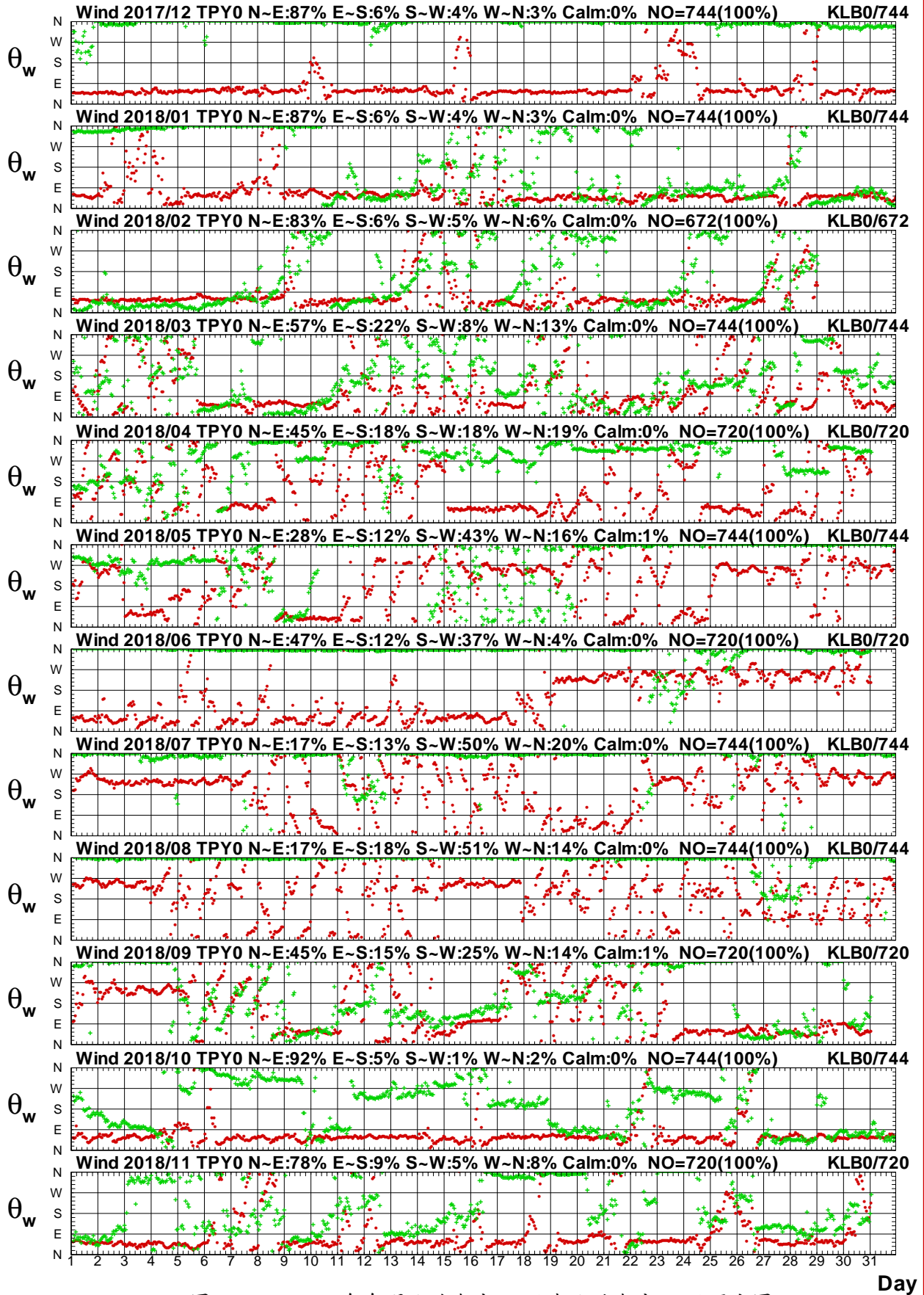


圖1.4.9b 2018年每月北苗海域 Y 站與北端海域 B 站風向圖

W17CTPY0.1HA W17CKLB0.1H0 W181TPY0.1HA W181KLB0.1H0 W182TPY0.1HA W182KLB0.1H0  
 W183TPY0.1HA W183KLB0.1H0 W184TPY0.1HA W184KLB0.1H0 W185TPY0.1HA W185KLB0.1H0

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# Wind Speed in Pei-Miao Seas of TPY0 at 2018

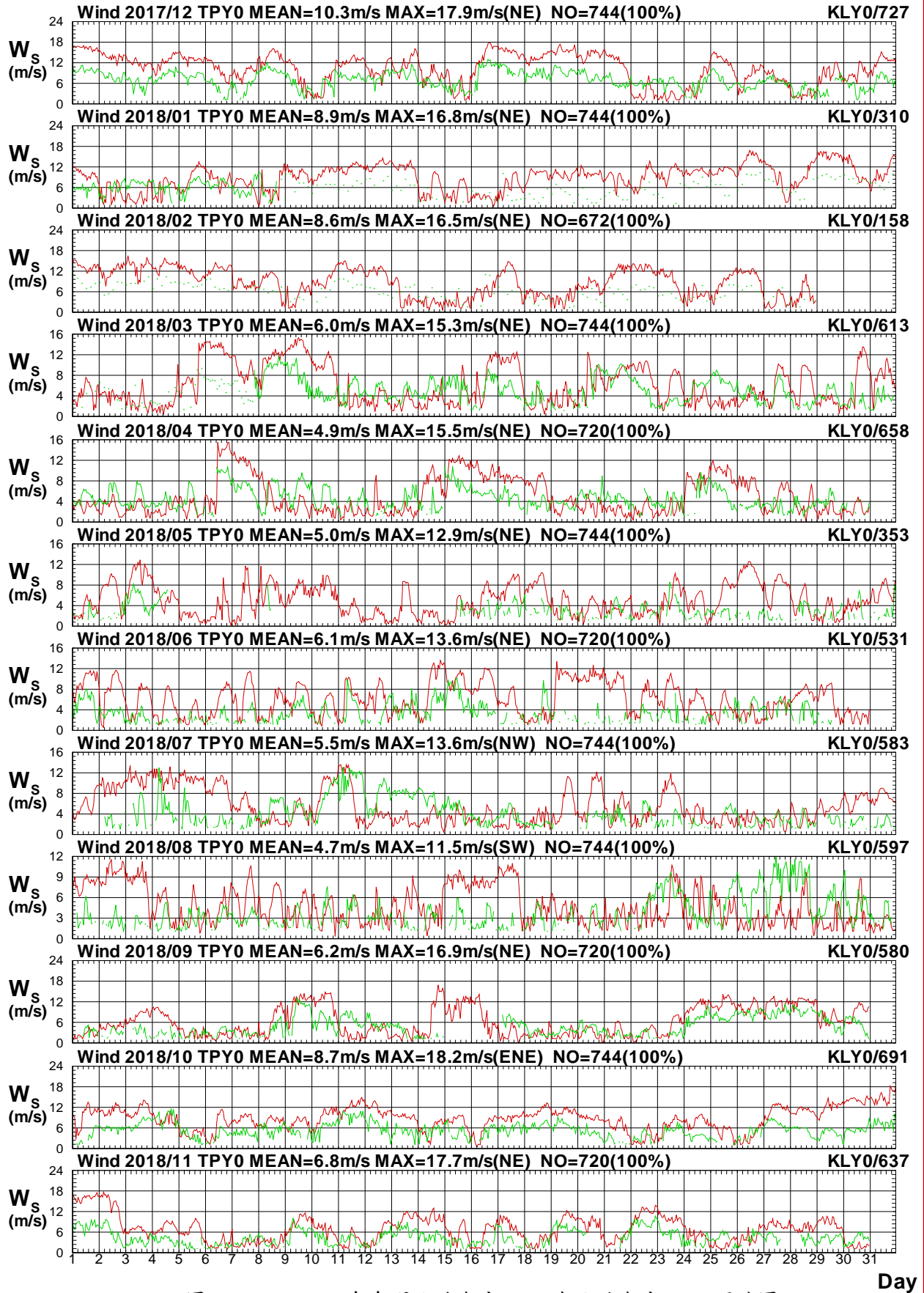


圖1.4.10a 2018年每月北苗海域 Y 站與北端海域 Y 站風速圖

W17CTPY0.1HA W17CKLY0.1H0 W181TPY0.1HA W181KLY0.1H0 W182TPY0.1HA W182KLY0.1H0  
 W183TPY0.1HA W183KLY0.1H0 W184TPY0.1HA W184KLY0.1H0 W185TPY0.1HA W185KLY0.1H0

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# Wind Direction in Pei-Miao Seas of TPY0 at 2018

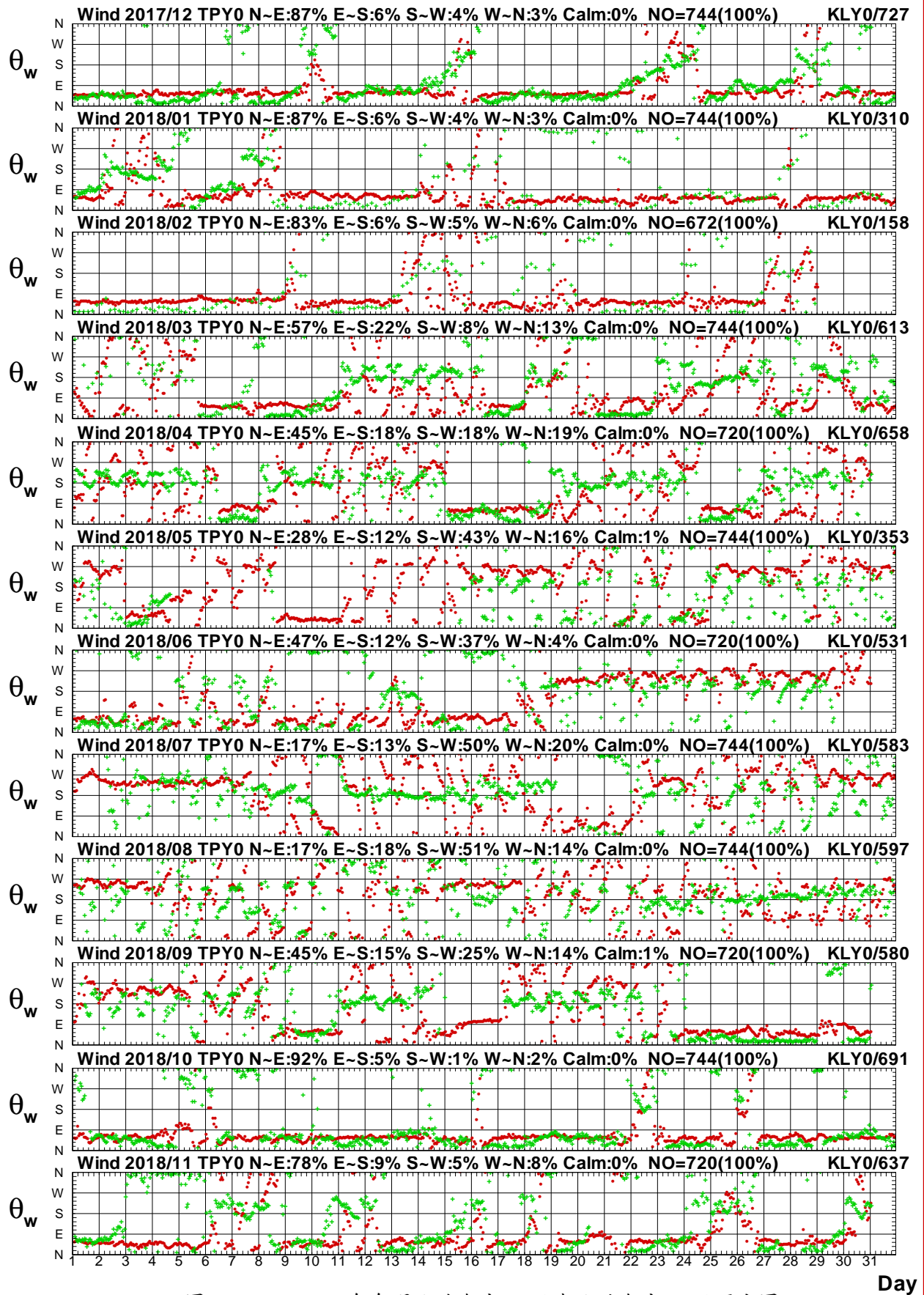


圖 1.4.10b 2018 年每月北苗海域 Y 站與北端海域 Y 站風向圖

W17CTPY0.1HA W17CKLY0.1H0 W181TPY0.1HA W181KLY0.1H0 W182TPY0.1HA W182KLY0.1H0  
 W183TPY0.1HA W183KLY0.1H0 W184TPY0.1HA W184KLY0.1H0 W185TPY0.1HA W185KLY0.1H0

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# Wind Speed in Pei-Miao Seas of TPY0 at 2018

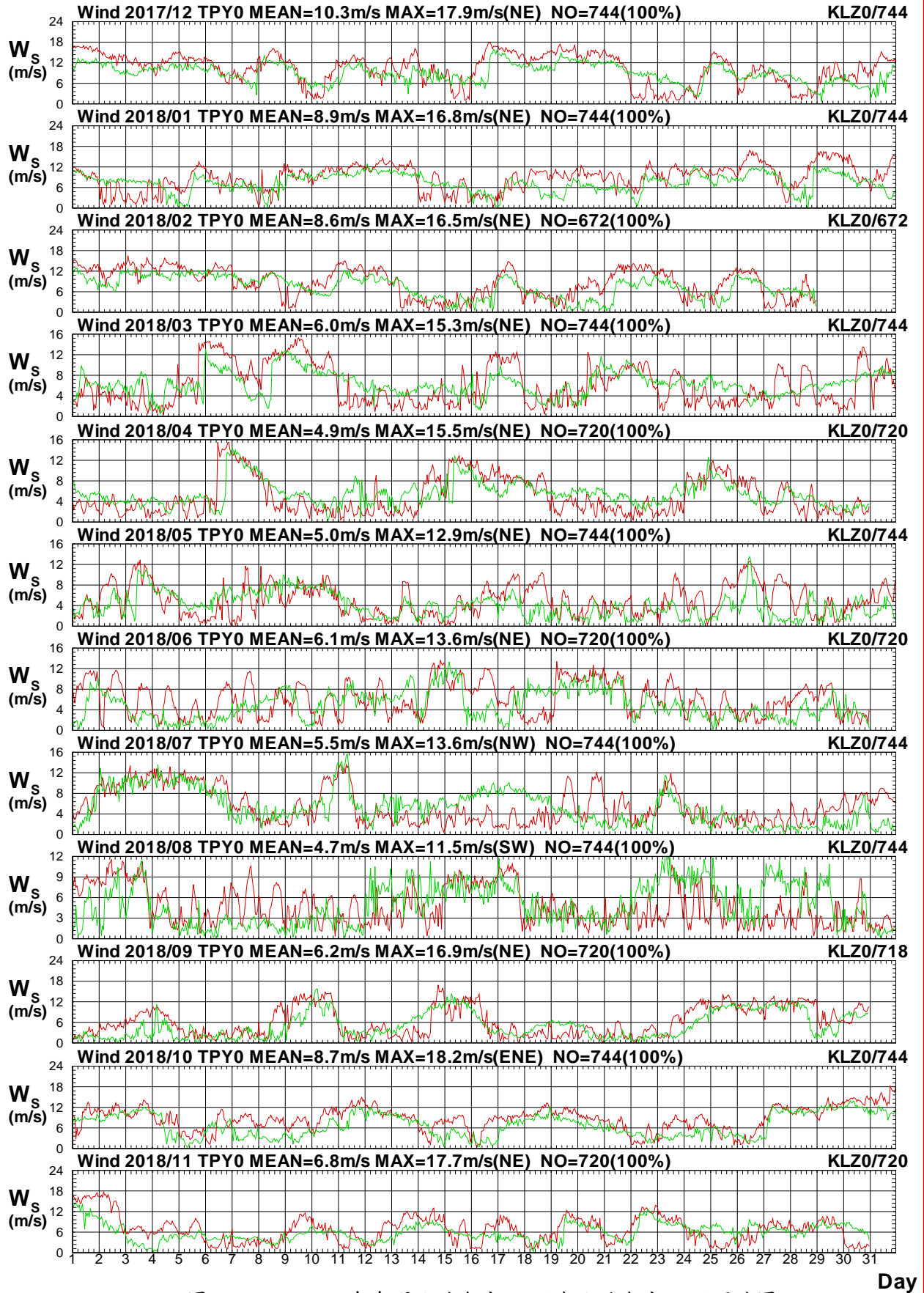


圖1.4.11a 2018年每月北苗海域 Y 站與北端海域 Z 站風速圖

W17CTPY0.1HA W17CKLZ0.1HO W181TPY0.1HA W181KLZ0.1HO W182TPY0.1HA W182KLZ0.1HO  
 W183TPY0.1HA W183KLZ0.1HO W184TPY0.1HA W184KLZ0.1HO W185TPY0.1HA W185KLZ0.1HO

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# Wind Direction in Pei-Miao Seas of TPY0 at 2018

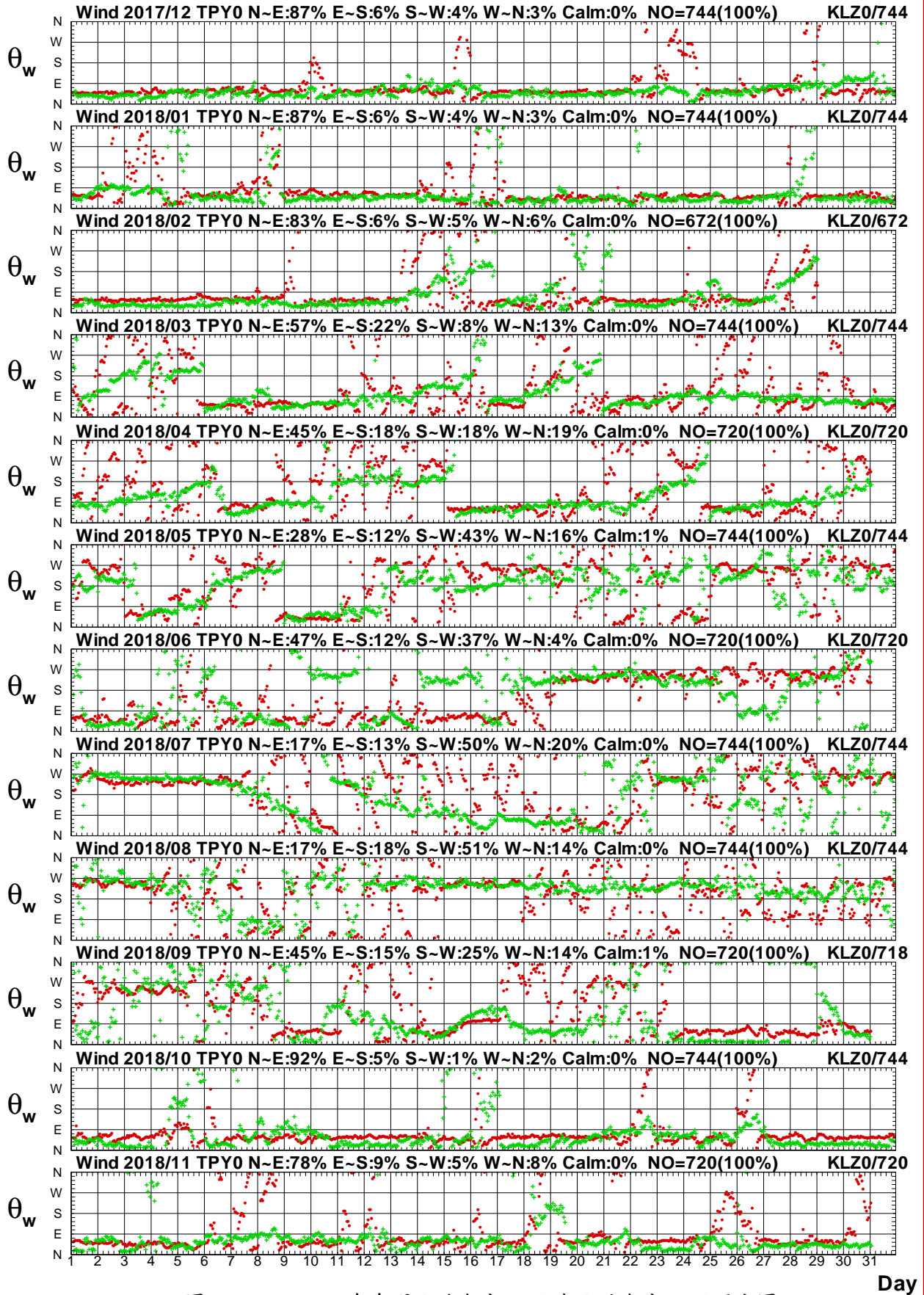


圖1.4.11b 2018年每月北苗海域 Y 站與北端海域 Z 站風向圖

W17TPY0.1HA W17CKLZ0.1H0 W181TPY0.1HA W181KLZ0.1H0 W182TPY0.1HA W182KLZ0.1H0  
 W183TPY0.1HA W183KLZ0.1H0 W184TPY0.1HA W184KLZ0.1H0 W185TPY0.1HA W185KLZ0.1H0

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# Wind Speed in Pei-Miao Seas of TPY0 at 2018

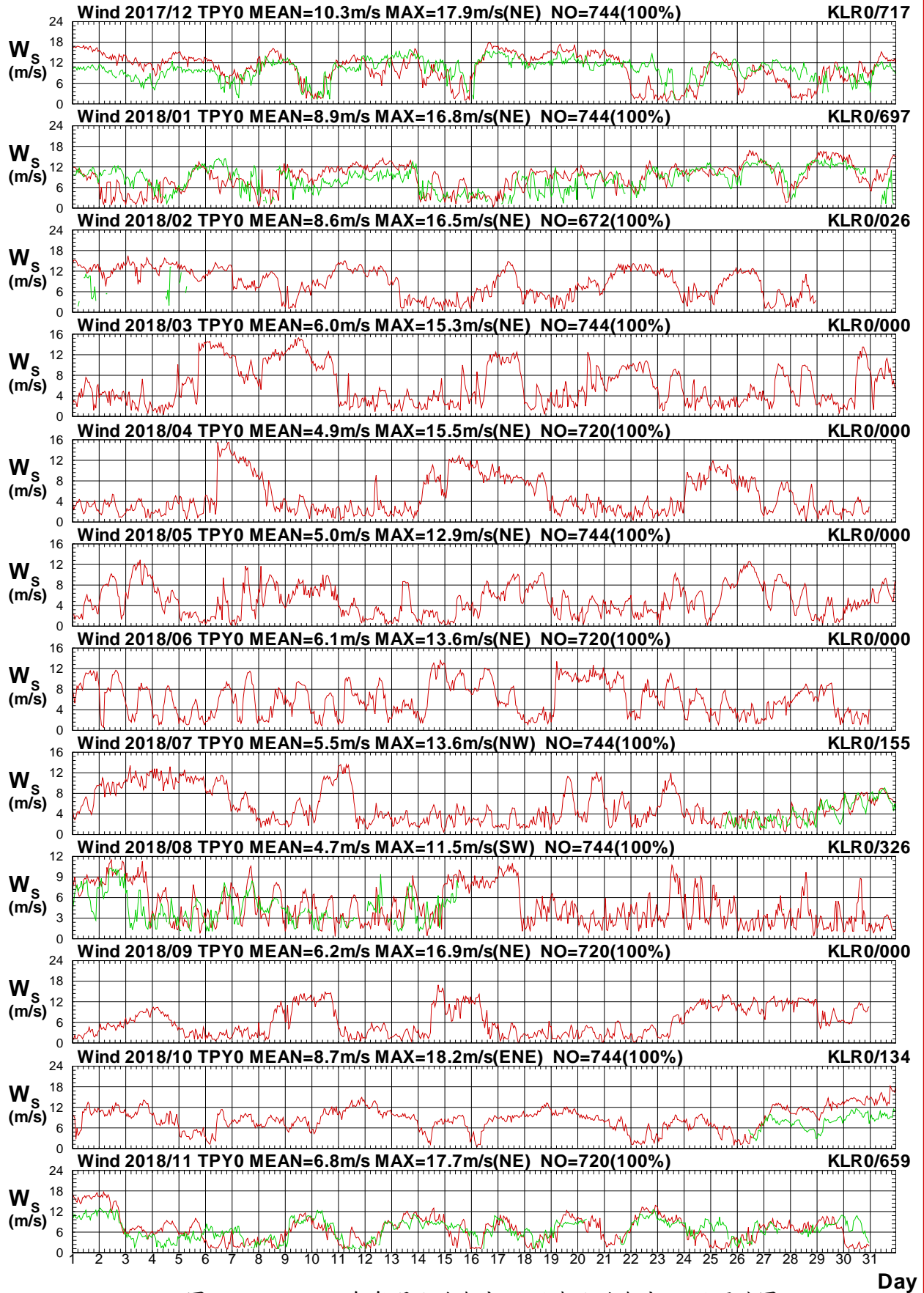


圖1.4.12a 2018年每月北苗海域 Y 站與北端海域 R 站風速圖

W17CTPY0.1HA W17CKLR0.1H0 W181TPY0.1HA W181KLR0.1H0 W182TPY0.1HA W182KLR0.1H0  
 W183TPY0.1HA W183KLR0.1H0 W184TPY0.1HA W184KLR0.1H0 W185TPY0.1HA W185KLR0.1H0

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# Wind Direction in Pei-Miao Seas of TPY0 at 2018

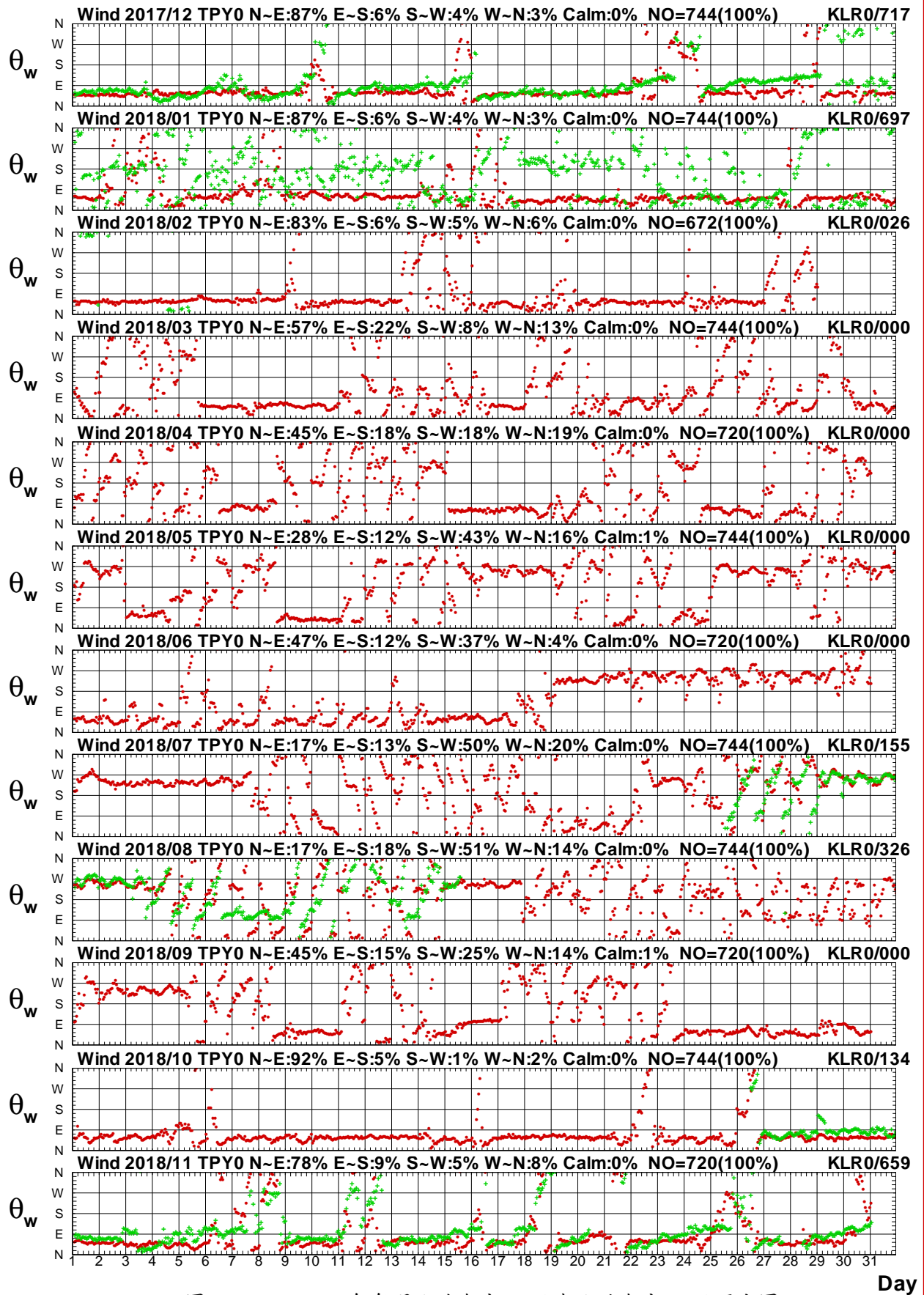


圖1.4.12b 2018年每月北苗海域 Y 站與北端海域 R 站風向圖

W17CTPY0.1HA W17CKLR0.1H0 W181TPY0.1HA W181KLR0.1H0 W182TPY0.1HA W182KLR0.1H0  
 W183TPY0.1HA W183KLR0.1H0 W184TPY0.1HA W184KLR0.1H0 W185TPY0.1HA W185KLR0.1H0

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# Wind Speed in Pei-Miao Seas of TPY0 at 2018

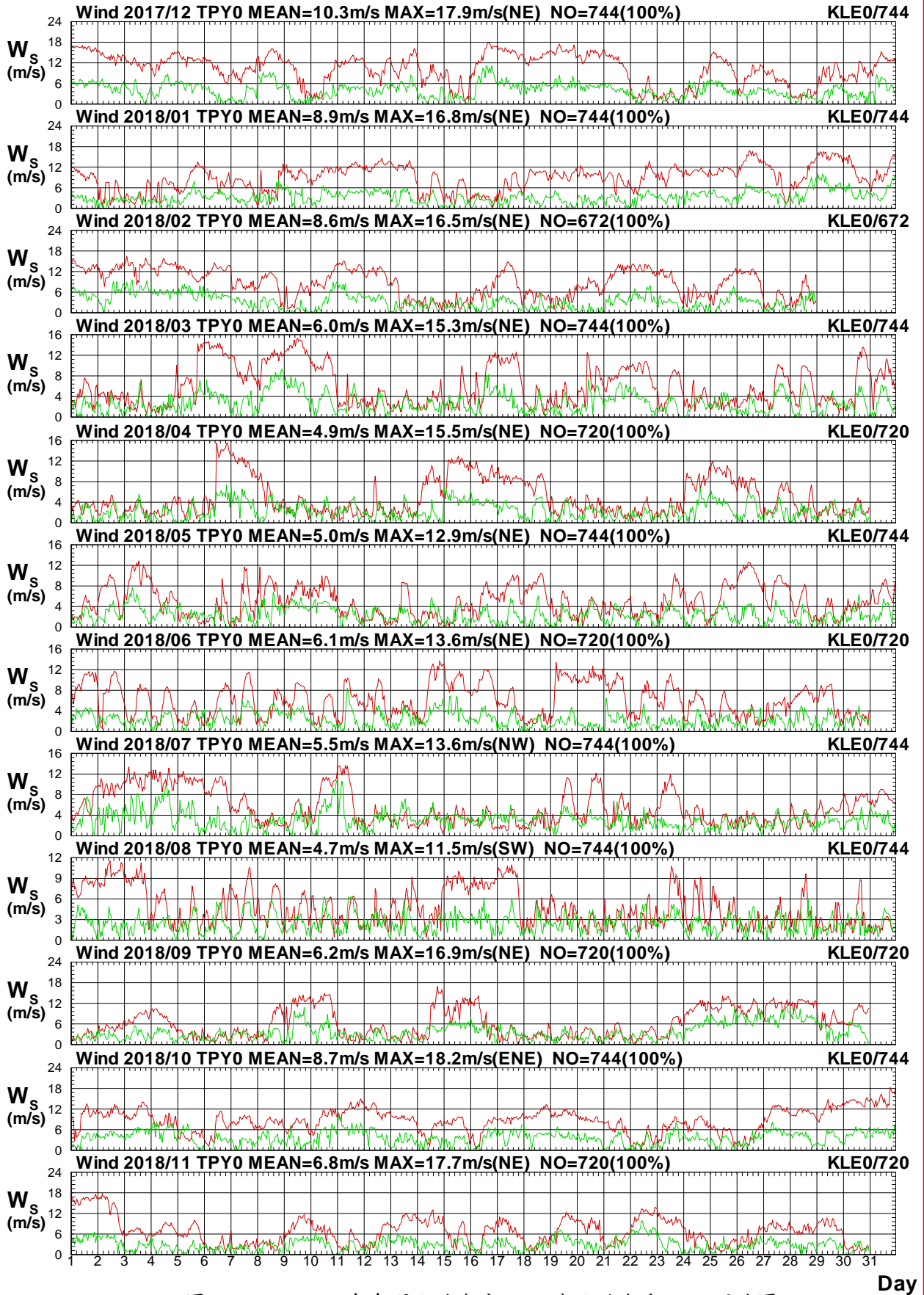


圖1.4.13a 2018年每月北苗海域 Y 站與北端海域 E 站風速圖

W17CTPY0.1HA W17CKLE0.1H0 W181TPY0.1HA W181KLE0.1H0 W182TPY0.1HA W182KLE0.1H0  
W183TPY0.1HA W183KLE0.1H0 W184TPY0.1HA W184KLE0.1H0 W185TPY0.1HA W185KLE0.1H0

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# Wind Direction in Pei-Miao Seas of TPY0 at 2018

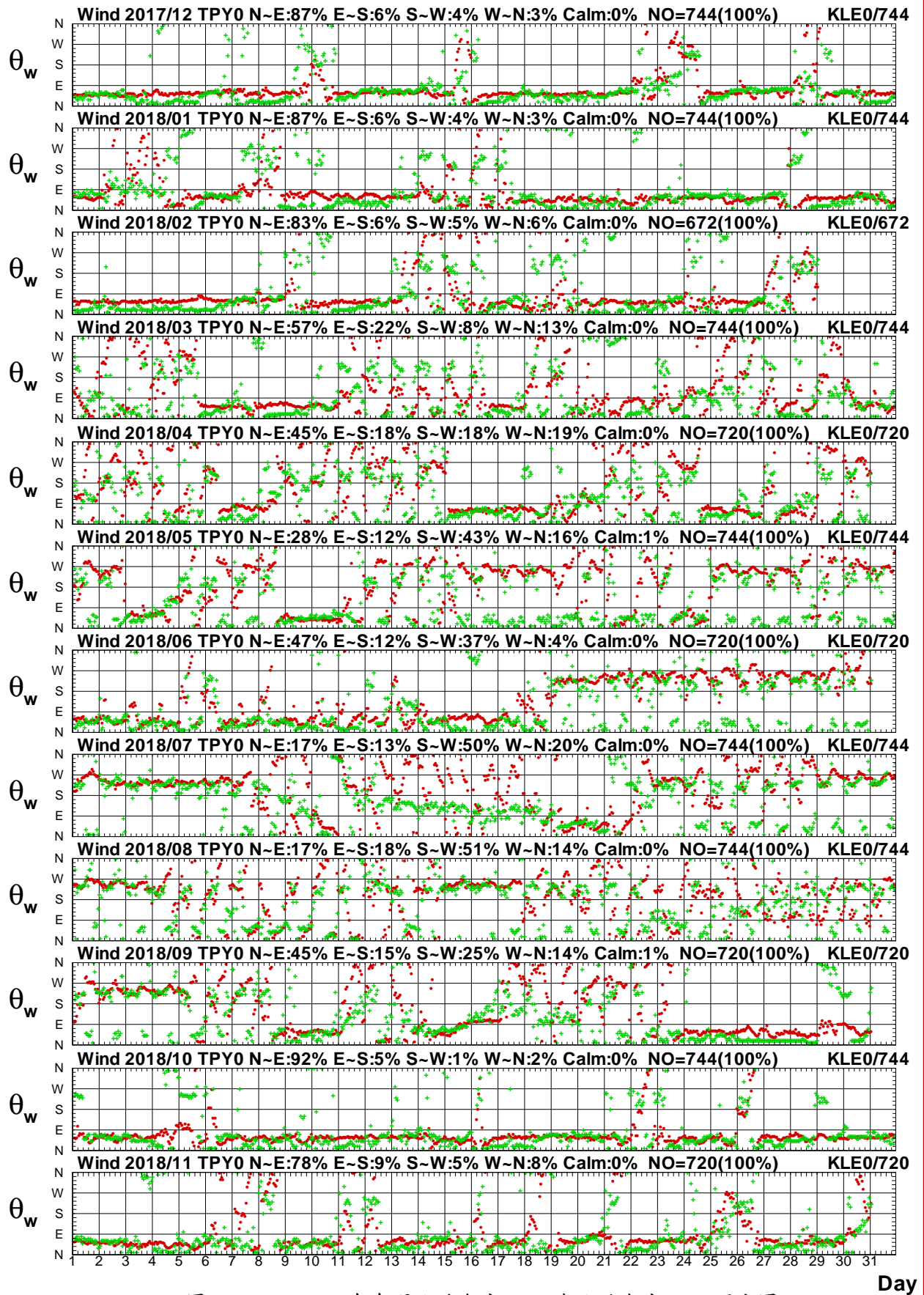


圖1.4.13b 2018年每月北苗海域 Y 站與北端海域 E 站風向圖

W17CTPY0.1HA W17CKLE0.1H0 W181TPY0.1HA W181KLE0.1H0 W182TPY0.1HA W182KLE0.1H0  
 W183TPY0.1HA W183KLE0.1H0 W184TPY0.1HA W184KLE0.1H0 W185TPY0.1HA W185KLE0.1H0

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# Wind Speed in Pei-Miao Seas of TPY0 at 2018

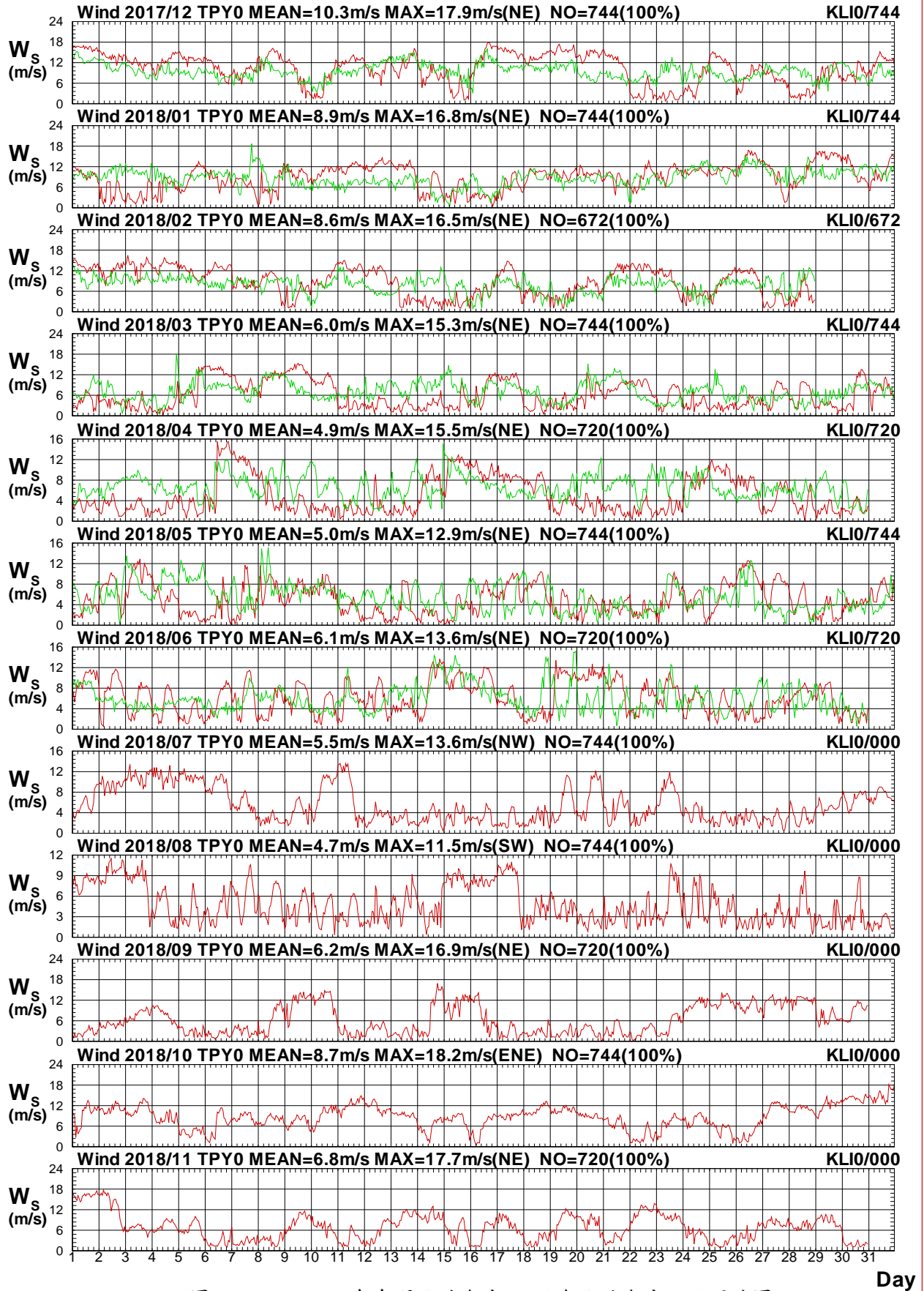


圖1.4.14a 2018年每月北苗海域 Y 站與北端海域 I 站風速圖

W17TPY0.1HA W17CKLI0.1H0 W181TPY0.1HA W181KLI0.1H0 W182TPY0.1HA W182KLI0.1H0  
 W183TPY0.1HA W183KLI0.1H0 W184TPY0.1HA W184KLI0.1H0 W185TPY0.1HA W185KLI0.1H0

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# Wind Direction in Pei-Miao Seas of TPY0 at 2018

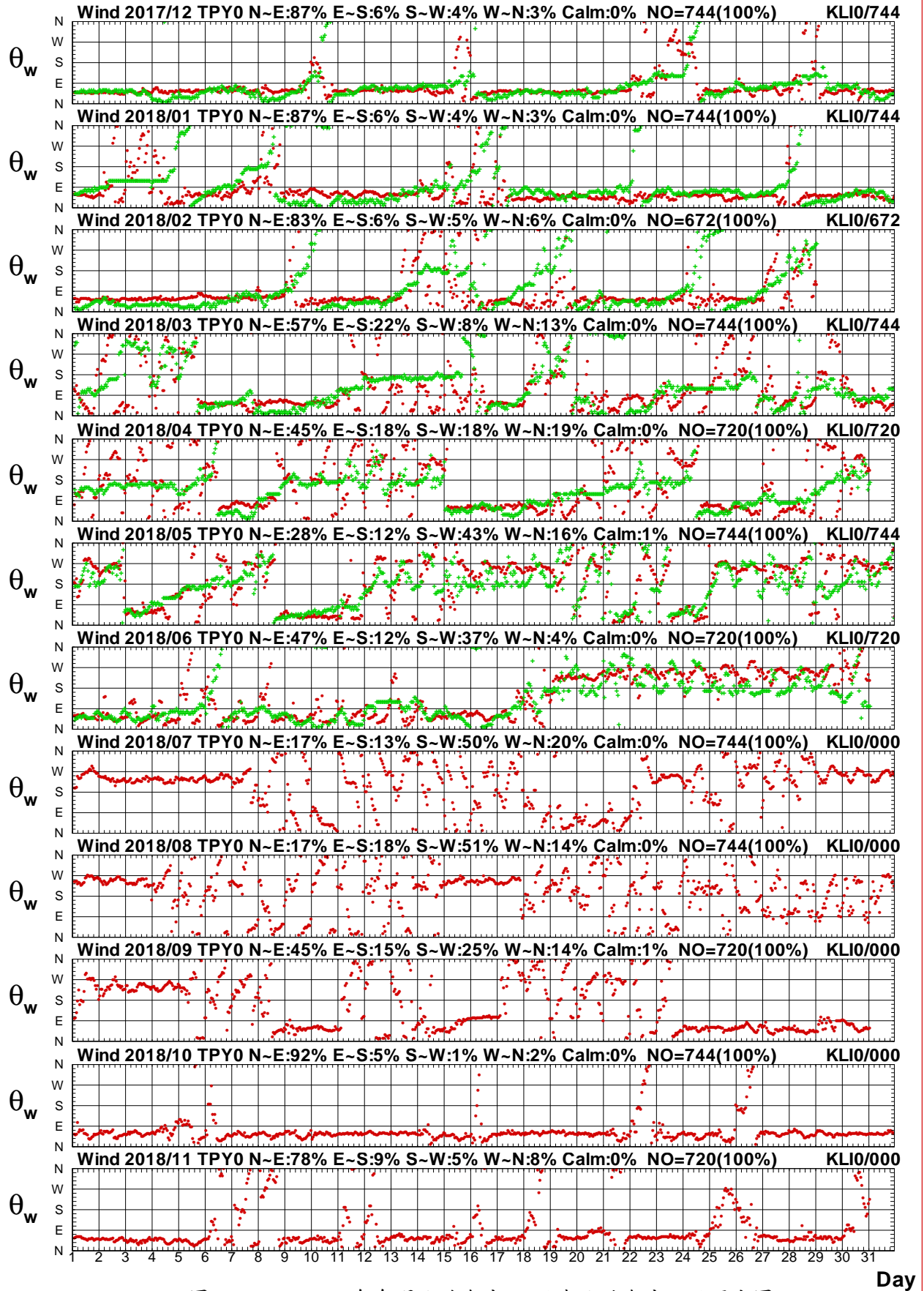


圖1.4.14b 2018年每月北苗海域 Y 站與北端海域 I 站風向圖

W17CTPY0.1HA W17CKLI0.1H0 W181TPY0.1HA W181KLI0.1H0 W182TPY0.1HA W182KLI0.1H0  
 W183TPY0.1HA W183KLI0.1H0 W184TPY0.1HA W184KLI0.1H0 W185TPY0.1HA W185KLI0.1H0

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# Wind Speed in Pei-Miao Seas of TPY0 at 2018

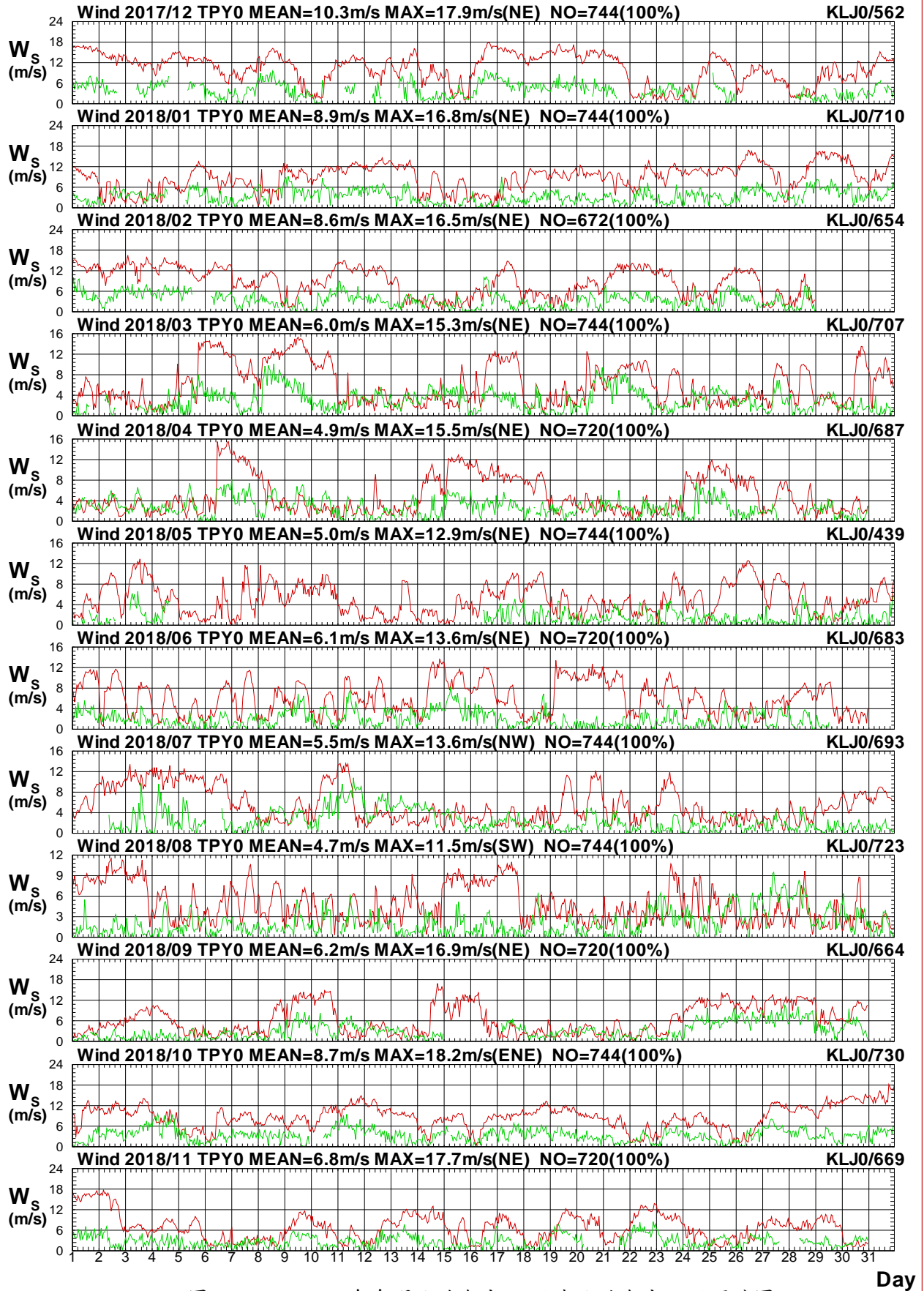


圖1.4.15a 2018年每月北苗海域 Y 站與北端海域 J 站風速圖

W17CTPY0.1HA W17CKLJ0.1H0 W181TPY0.1HA W181KLJ0.1H0 W182TPY0.1HA W182KLJ0.1H0  
 W183TPY0.1HA W183KLJ0.1H0 W184TPY0.1HA W184KLJ0.1H0 W185TPY0.1HA W185KLJ0.1H0

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# Wind Direction in Pei-Miao Seas of TPY0 at 2018

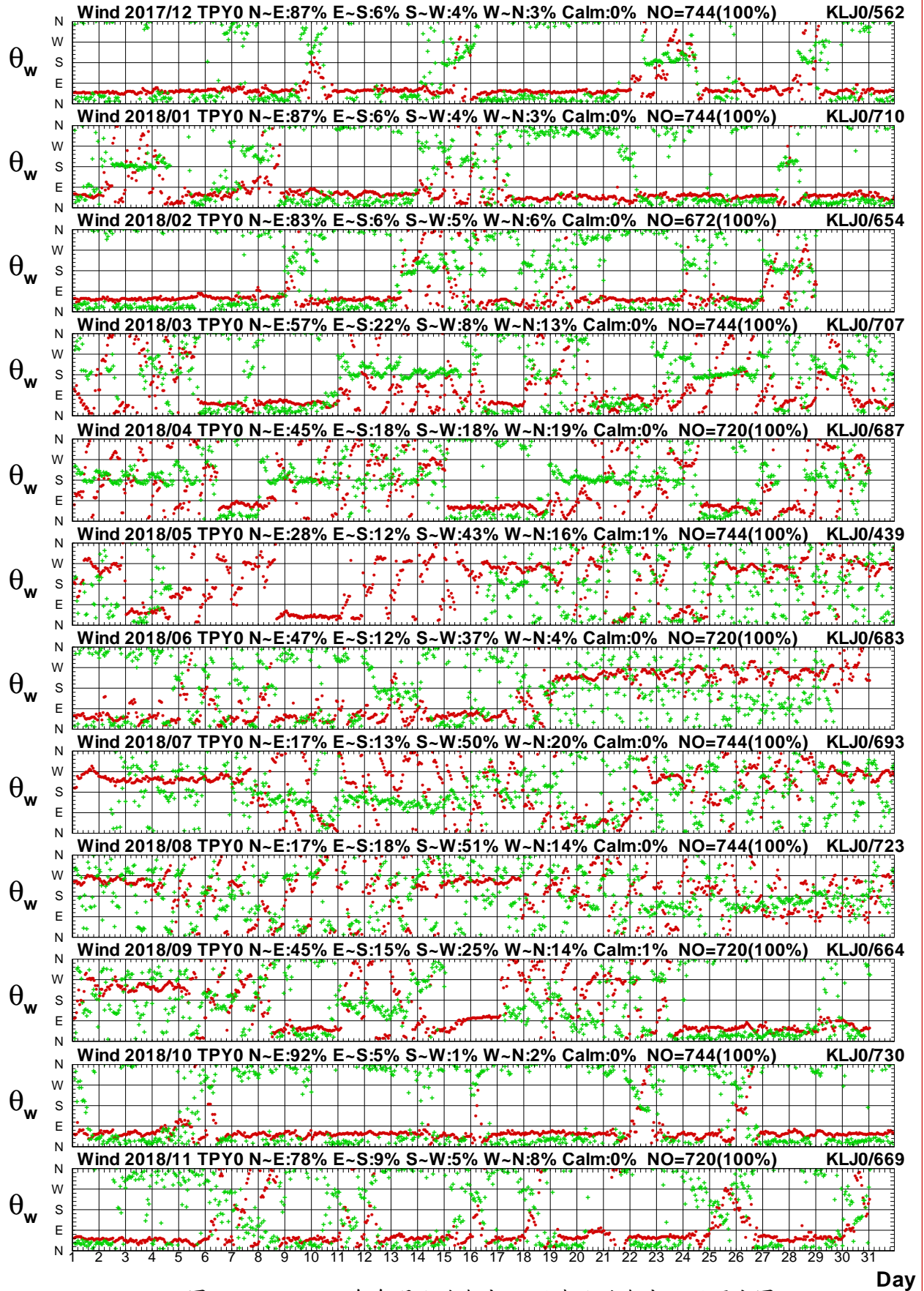


圖1.4.15b 2018年每月北苗海域 Y 站與北端海域 J 站風向圖

W17CTPY0.1HA W17CKLJ0.1H0 W181TPY0.1HA W181KLJ0.1H0 W182TPY0.1HA W182KLJ0.1H0  
 W183TPY0.1HA W183KLJ0.1H0 W184TPY0.1HA W184KLJ0.1H0 W185TPY0.1HA W185KLJ0.1H0

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# Wind Speed in Pei-Miao Seas of TPY0 at 2018

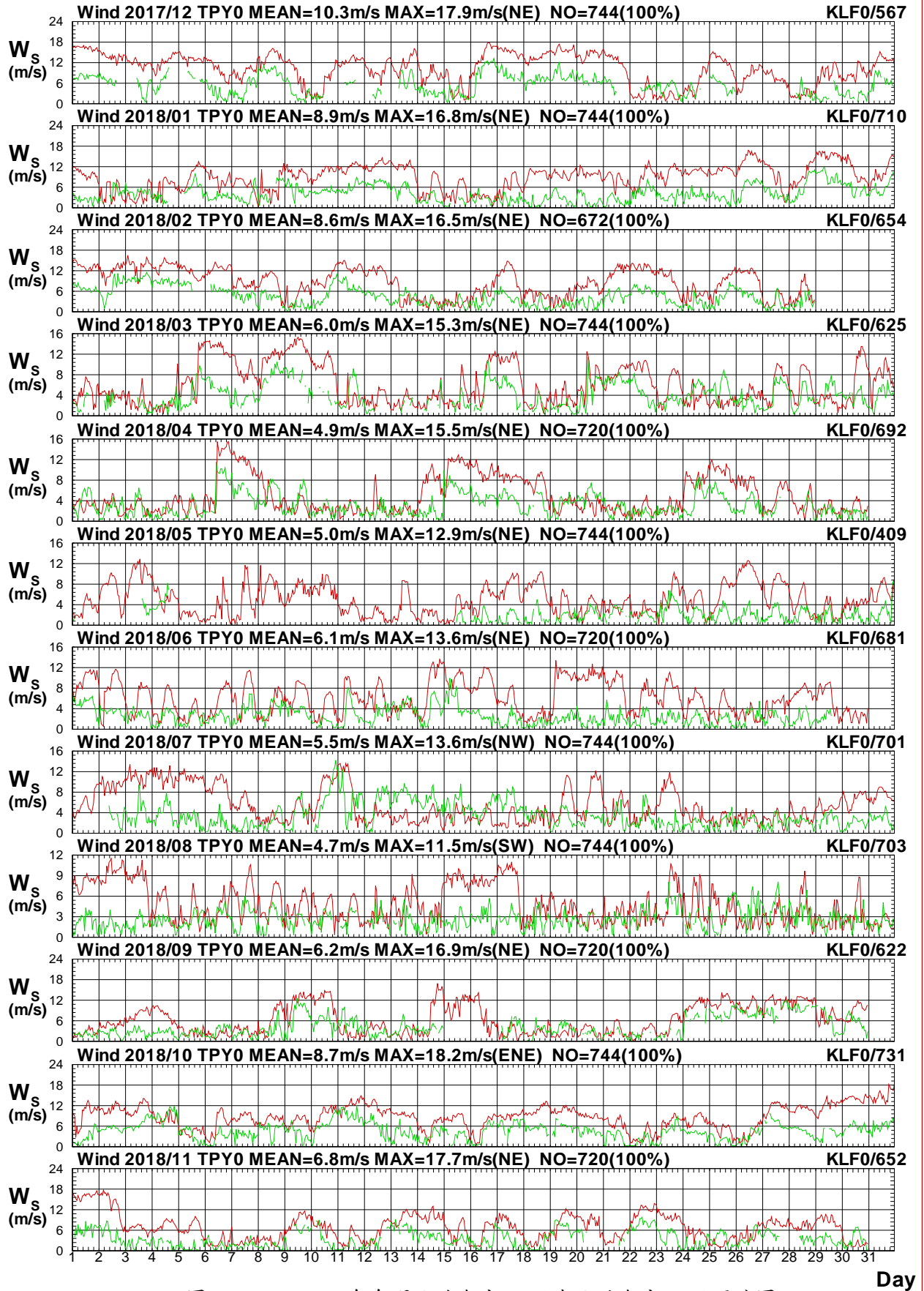


圖1.4.16a 2018年每月北苗海域 Y 站與北端海域 F 站風速圖

W17TPY0.1HA W17CKLF0.1H0 W181TPY0.1HA W181KLF0.1H0 W182TPY0.1HA W182KLF0.1H0  
 W183TPY0.1HA W183KLF0.1H0 W184TPY0.1HA W184KLF0.1H0 W185TPY0.1HA W185KLF0.1H0

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# Wind Direction in Pei-Miao Seas of TPY0 at 2018

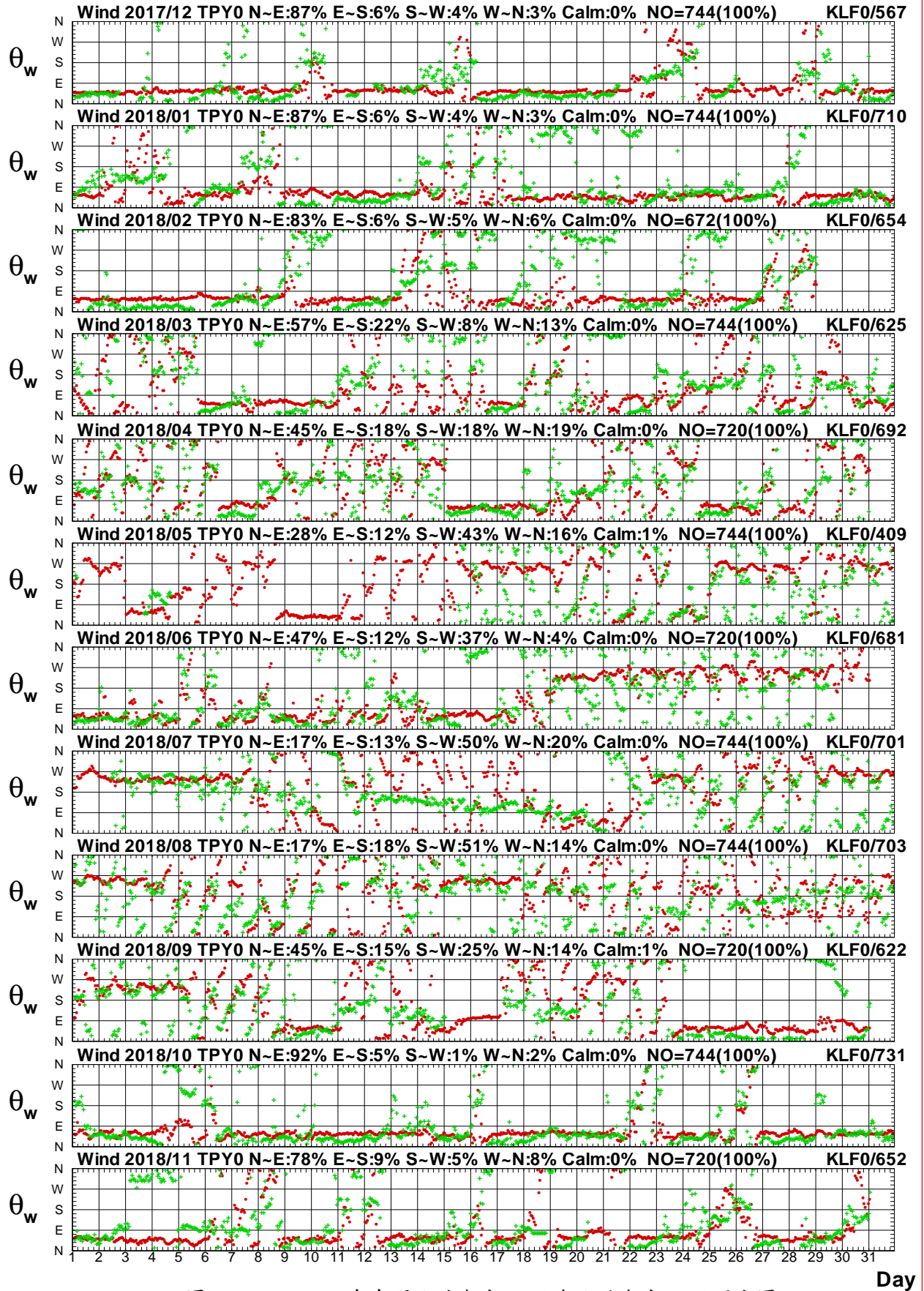


圖1.4.16b 2018年每月北苗海域 Y 站與北端海域 F 站風向圖

W17CTPY0.1HA W17CKLF0.1H0 W181TPY0.1HA W181KLF0.1H0 W182TPY0.1HA W182KLF0.1H0  
 W183TPY0.1HA W183KLF0.1H0 W184TPY0.1HA W184KLF0.1H0 W185TPY0.1HA W185KLF0.1H0

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# Wind Speed in Pei-Miao Seas of TPY0 at 2018

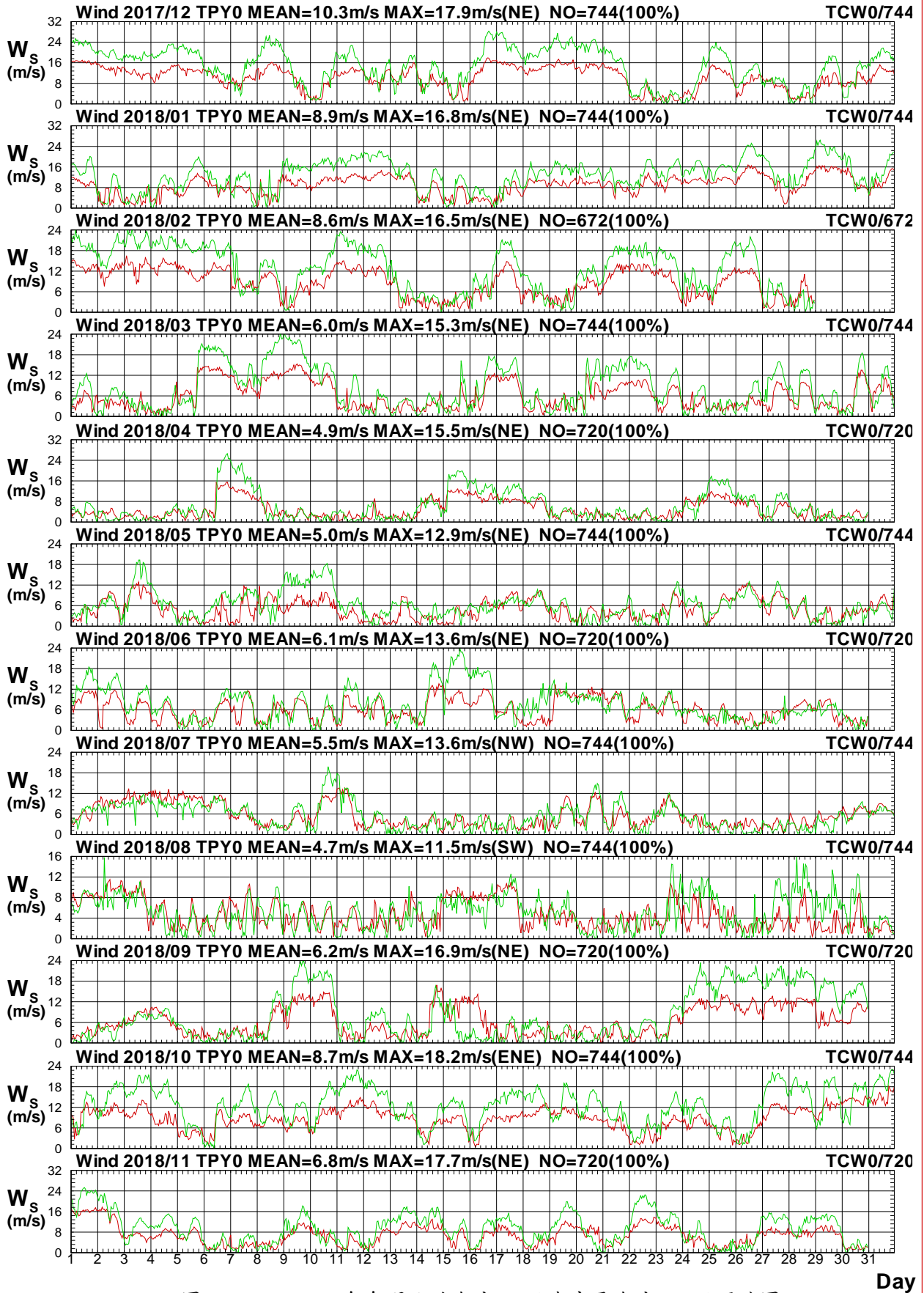


圖 1.4.17a 2018年每月北苗海域 Y 站與中雲海域 W 站風速圖

W17TPY0.1HA W17TCW0.1H0 W181TPY0.1HA W181TCW0.1H0 W182TPY0.1HA W182TCW0.1H0  
 W183TPY0.1HA W183TCW0.1H0 W184TPY0.1HA W184TCW0.1H0 W185TPY0.1HA W185TCW0.1H0

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# Wind Direction in Pei-Miao Seas of TPY0 at 2018

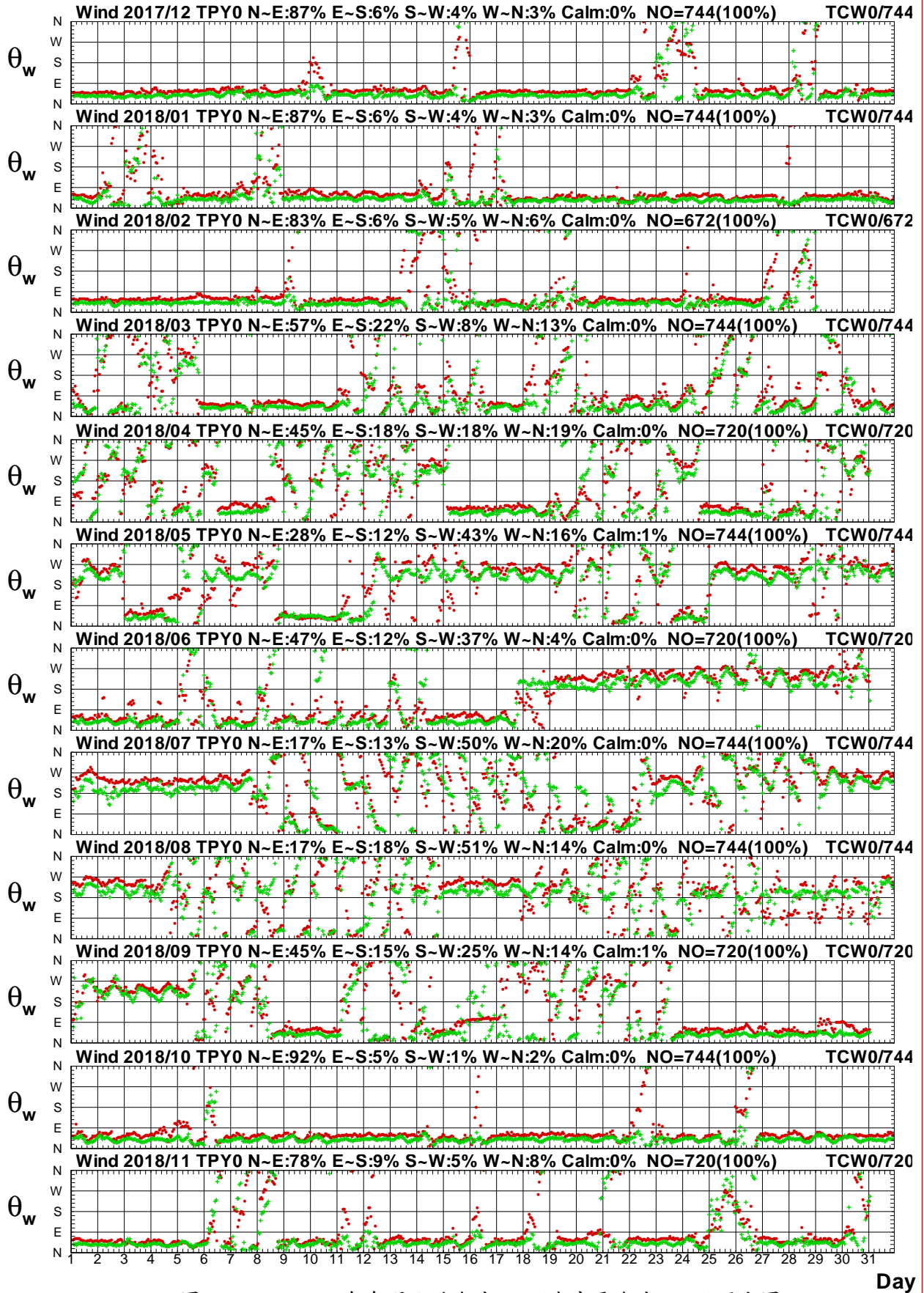


圖1.4.17b 2018年每月北苗海域 Y 站與中雲海域 W 站風向圖

W17CTPY0.1HA W17CTCW0.1H0 W181TPY0.1HA W181TCW0.1H0 W182TPY0.1HA W182TCW0.1H0  
 W183TPY0.1HA W183TCW0.1H0 W184TPY0.1HA W184TCW0.1H0 W185TPY0.1HA W185TCW0.1H0

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# Wind Speed in Pei-Miao Seas of TPY0 at 2018

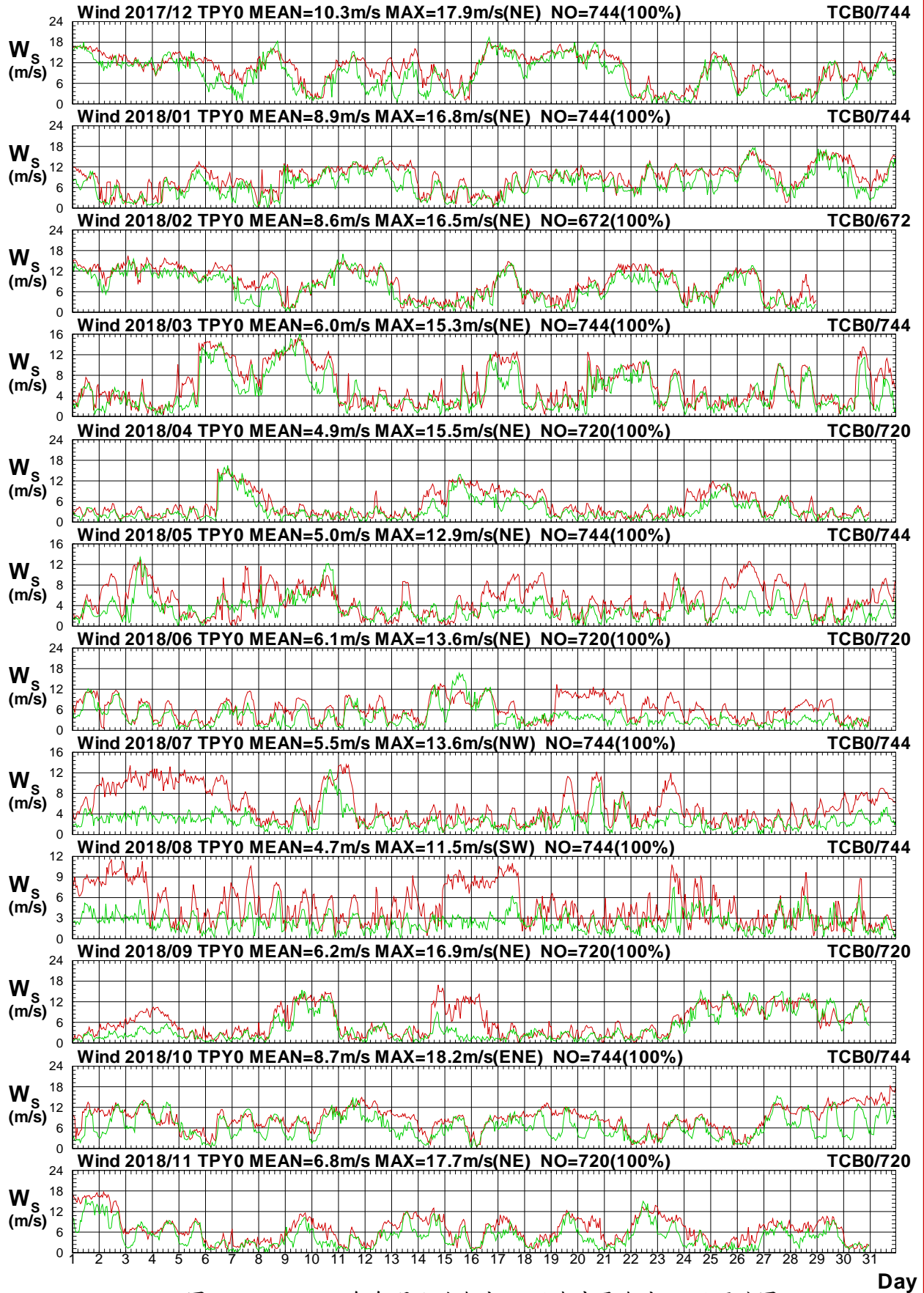


圖1.4.18a 2018年每月北苗海域 Y 站與中雲海域 B 站風速圖

W17CTPY0.1HA W17CTCB0.1H0 W181TPY0.1HA W181TCB0.1H0 W182TPY0.1HA W182TCB0.1H0  
 W183TPY0.1HA W183TCB0.1H0 W184TPY0.1HA W184TCB0.1H0 W185TPY0.1HA W185TCB0.1H0

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# Wind Direction in Pei-Miao Seas of TPY0 at 2018

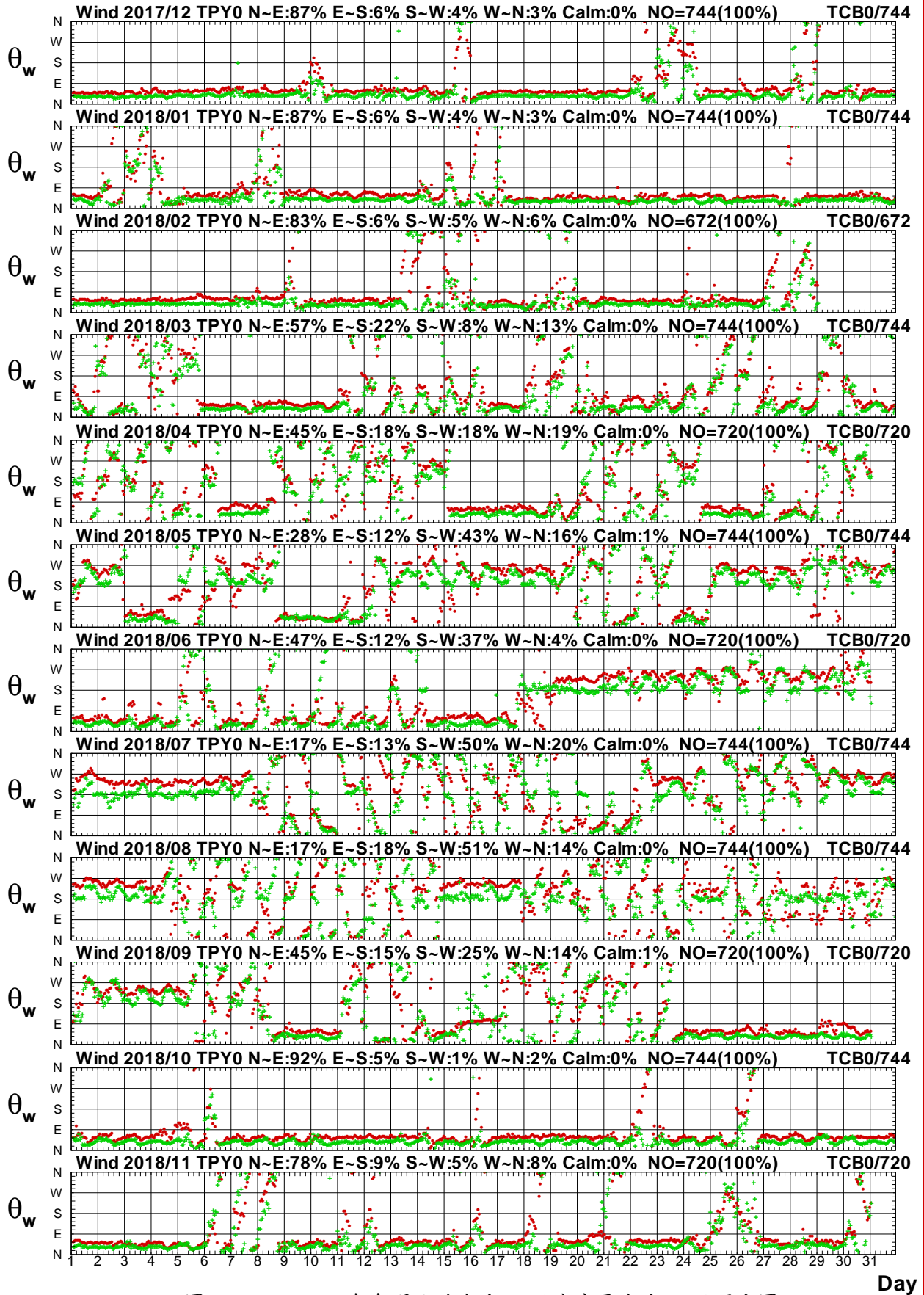


圖1.4.18b 2018年每月北苗海域 Y 站與中雲海域 B 站風向圖

W17CTPY0.1HA W17CTCB0.1H0 W181TPY0.1HA W181TCB0.1H0 W182TPY0.1HA W182TCB0.1H0  
 W183TPY0.1HA W183TCB0.1H0 W184TPY0.1HA W184TCB0.1H0 W185TPY0.1HA W185TCB0.1H0

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# Wind Speed in Pei-Miao Seas of TPY0 at 2018

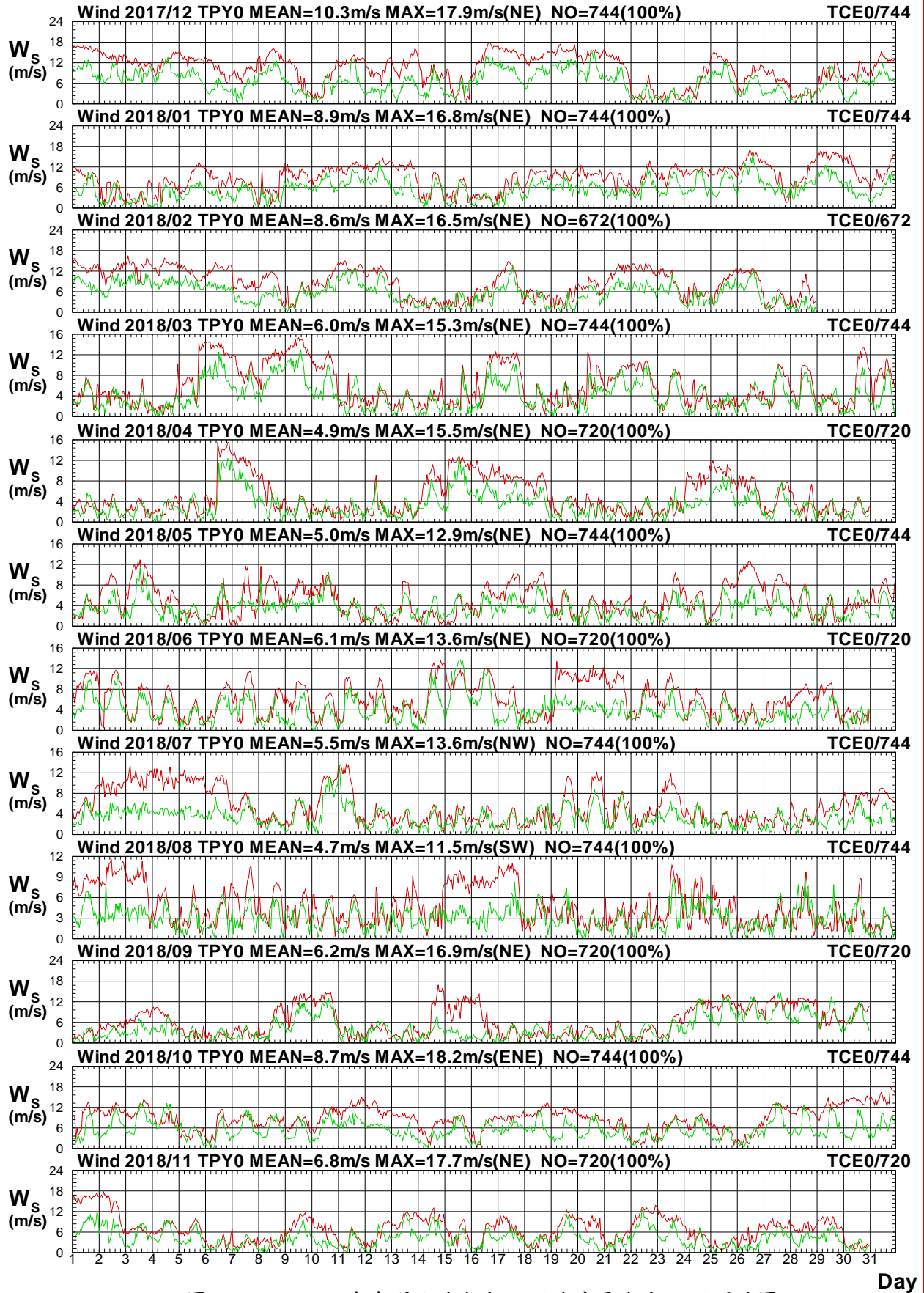


圖1.4.19a 2018年每月北苗海域 Y 站與中雲海域 E 站風速圖

W17CTPY0.1HA W17CTCE0.1H0 W181TPY0.1HA W181TCE0.1H0 W182TPY0.1HA W182TCE0.1H0  
 W183TPY0.1HA W183TCE0.1H0 W184TPY0.1HA W184TCE0.1H0 W185TPY0.1HA W185TCE0.1H0

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# Wind Direction in Pei-Miao Seas of TPY0 at 2018

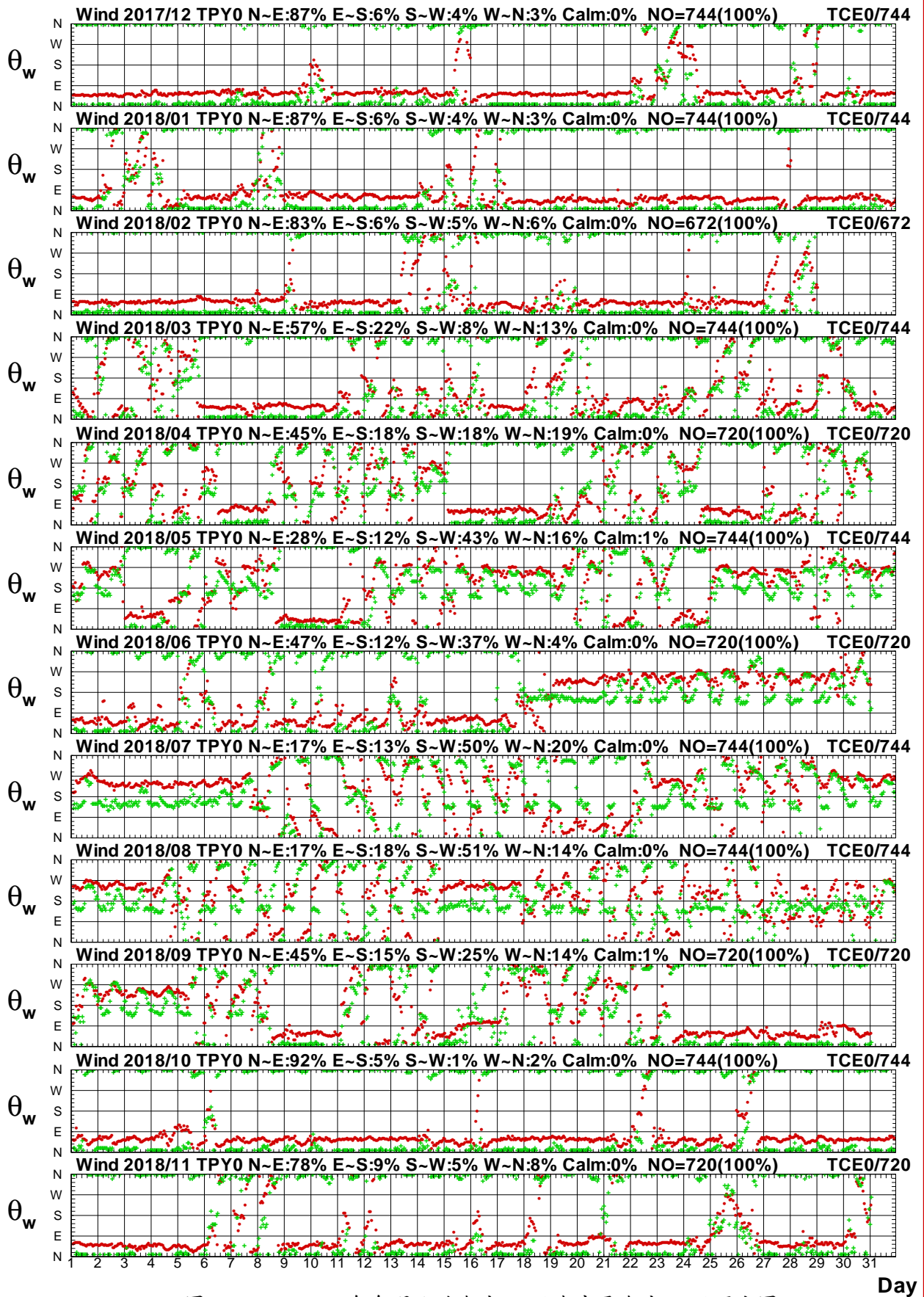


圖1.4.19b 2018年每月北苗海域 Y 站與中雲海域 E 站風向圖

W17CTPY0.1HA W17CTCE0.1H0 W181TPY0.1HA W181TCE0.1H0 W182TPY0.1HA W182TCE0.1H0  
W183TPY0.1HA W183TCE0.1H0 W184TPY0.1HA W184TCE0.1H0 W185TPY0.1HA W185TCE0.1H0

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# Wind Speed in Pei-Miao Seas of TPY0 at 2018

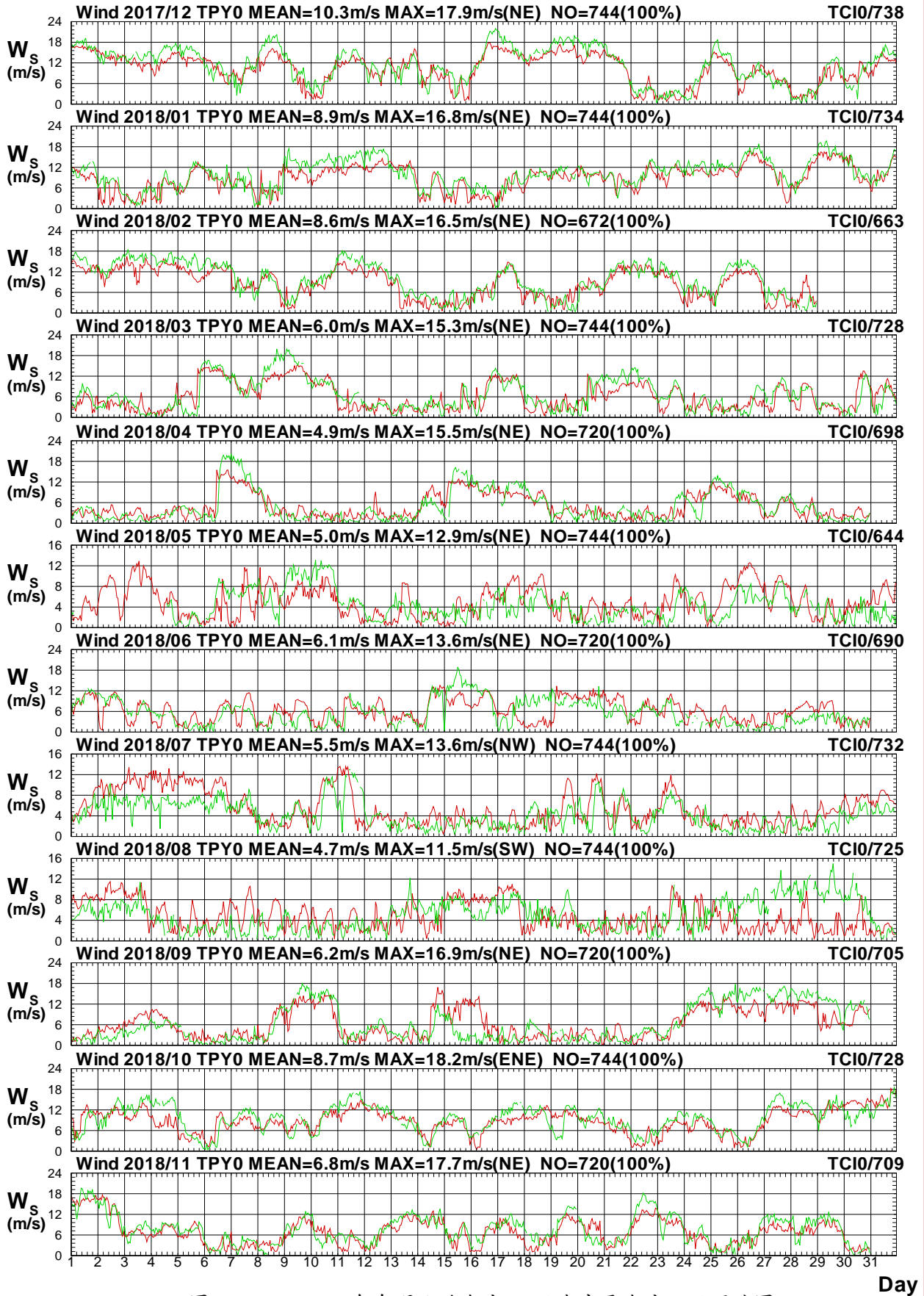


圖1.4.20a 2018年每月北苗海域 Y 站與中雲海域 I 站風速圖

W17TPY0.1HA W17TCI0.1H0 W181TPY0.1HA W181TCI0.1H0 W182TPY0.1HA W182TCI0.1H0  
 W183TPY0.1HA W183TCI0.1H0 W184TPY0.1HA W184TCI0.1H0 W185TPY0.1HA W185TCI0.1H0

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# Wind Direction in Pei-Miao Seas of TPY0 at 2018

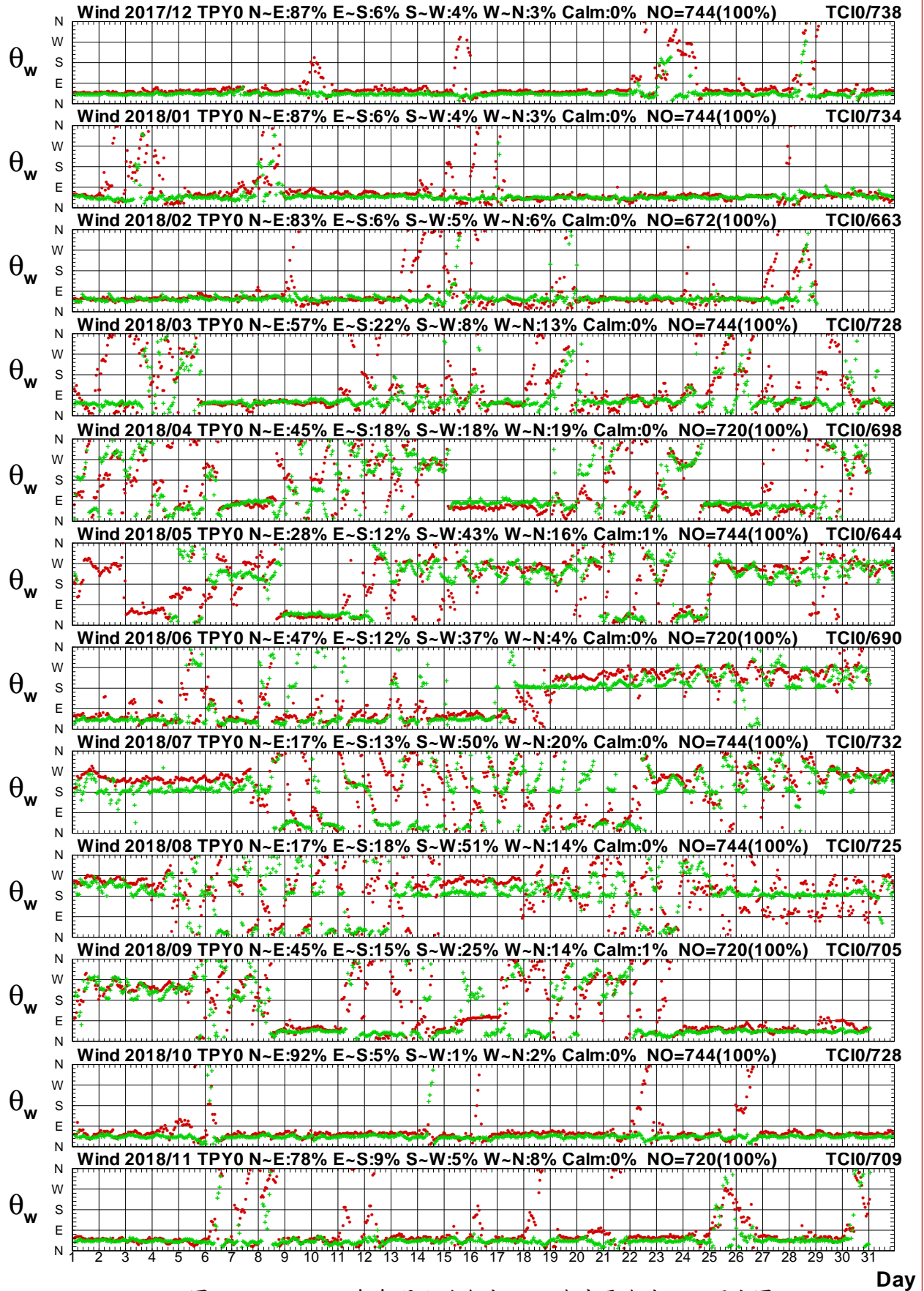


圖1.4.20b 2018年每月北苗海域 Y 站與中雲海域 I 站風向圖

W17TPY0.1HA W17TCI0.1H0 W181TPY0.1HA W181TCI0.1H0 W182TPY0.1HA W182TCI0.1H0  
 W183TPY0.1HA W183TCI0.1H0 W184TPY0.1HA W184TCI0.1H0 W185TPY0.1HA W185TCI0.1H0

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## 1.5 2018 年北苗海域風力各測站修補前 風力向量分佈圖



# Distribution of Wind Vectors

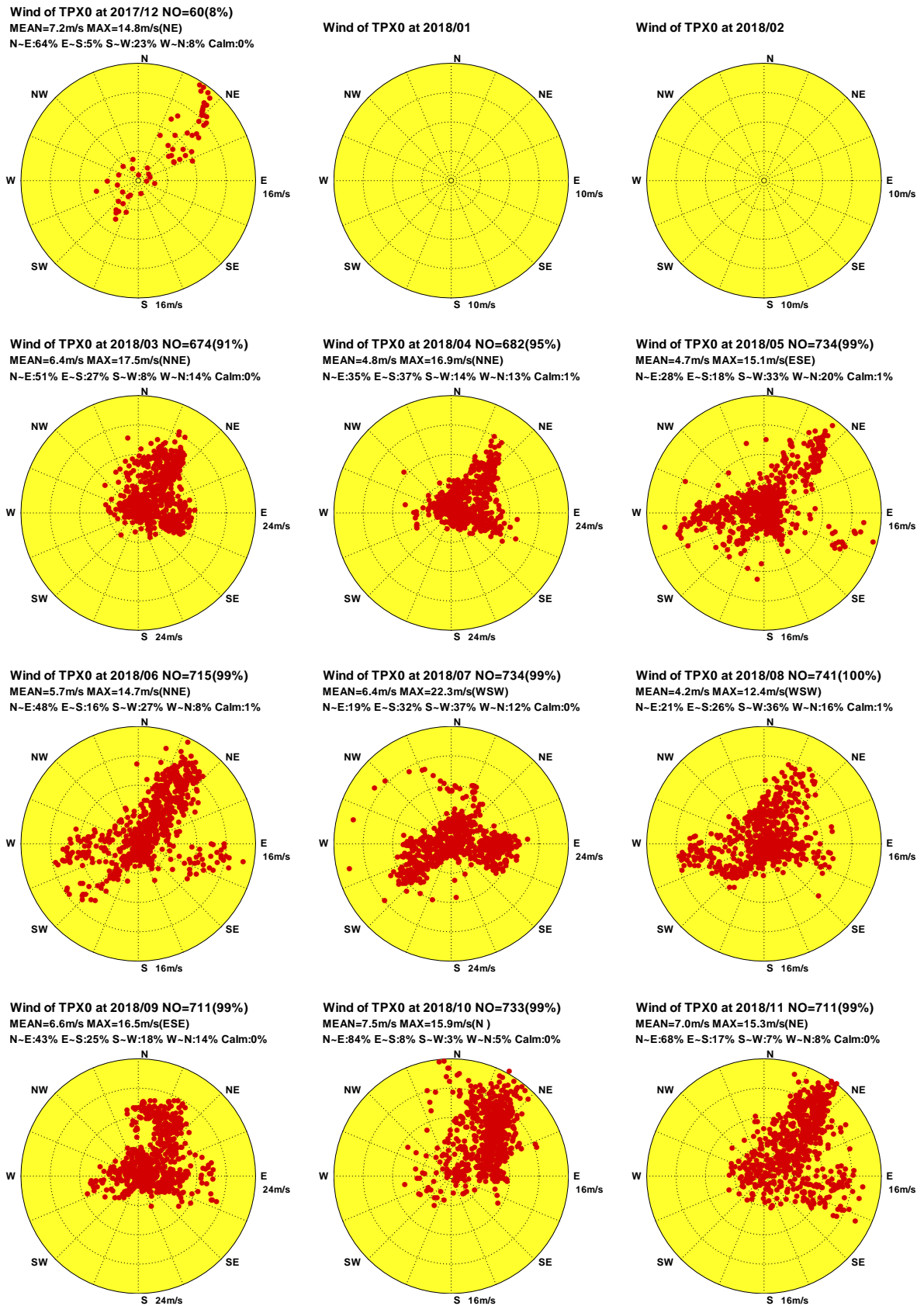


圖1.5.1 2018年北苗海域每月 X 站修補前觀測風力向量分佈圖

W17CTPX0.1H0 W181TPX0.1H0 W182TPX0.1H0 W183TPX0.1H0 W184TPX0.1H0 W185TPX0.1H0  
 W186TPX0.1H0 W187TPX0.1H0 W188TPX0.1H0 W189TPX0.1H0 W18ATPX0.1H0 W18BTPX0.1H0

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# Distribution of Wind Vectors

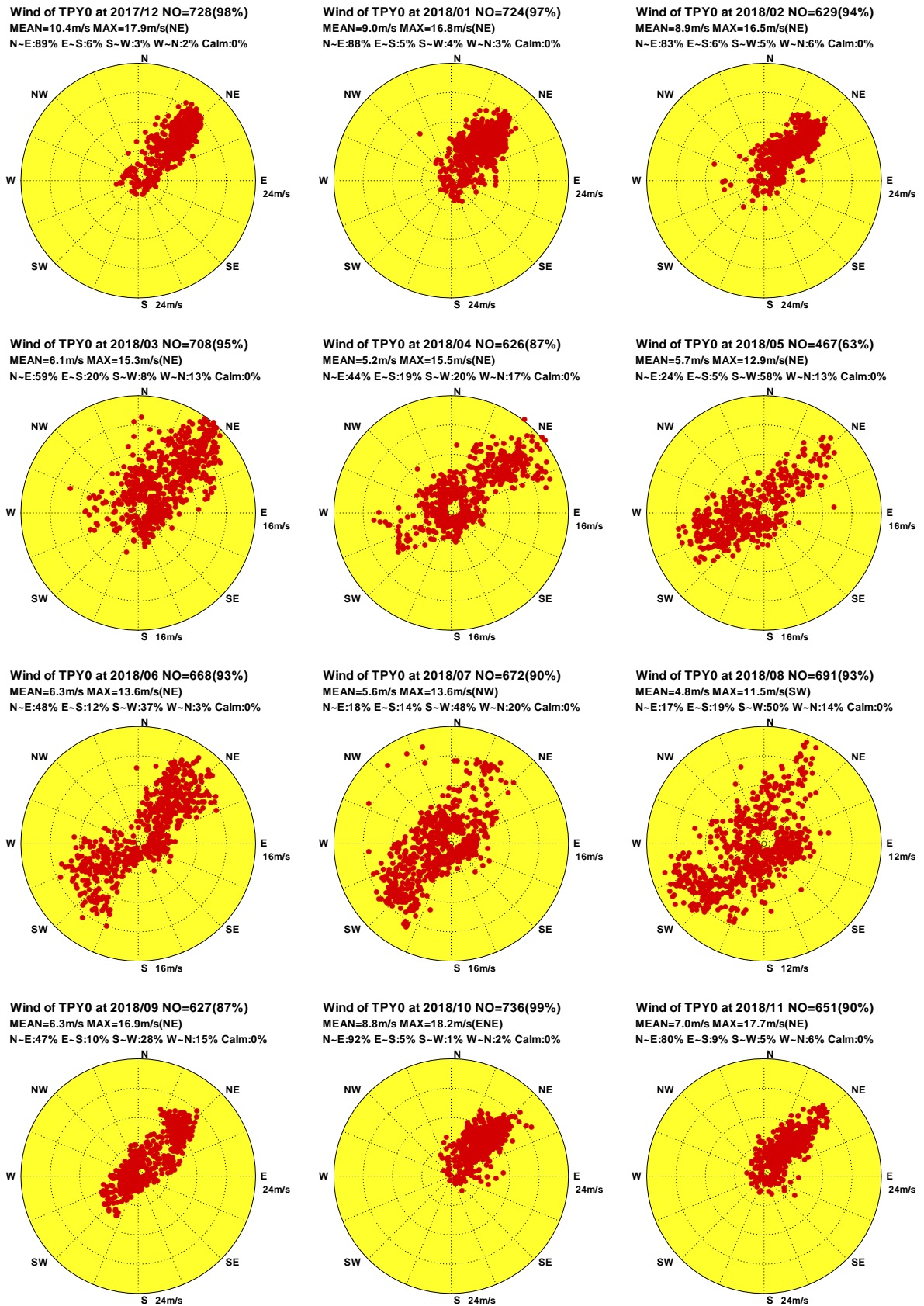


圖1.5.2 2018年北苗海域每月 Y 站修補前觀測風力向量分佈圖

W17CTPY0.1H0 W181TPY0.1H0 W182TPY0.1H0 W183TPY0.1H0 W184TPY0.1H0 W185TPY0.1H0  
W186TPY0.1H0 W187TPY0.1H0 W188TPY0.1H0 W189TPY0.1H0 W18ATPY0.1H0 W18BTPY0.1H0

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# Distribution of Wind Vectors

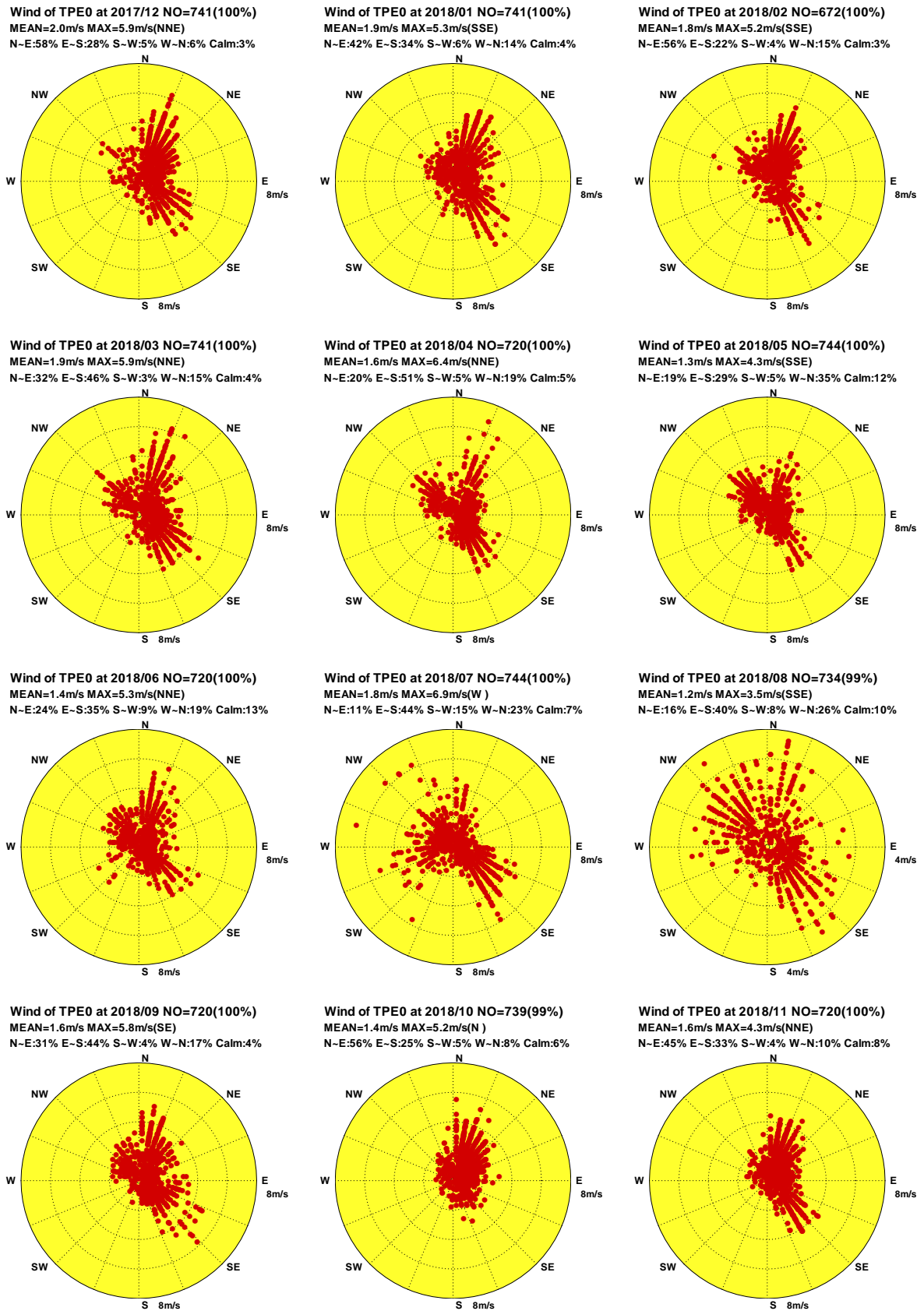


圖1.5.3 2018年北苗海域每月 E 站修補前觀測風力向量分佈圖

W17CTPE0.1H0 W181TPE0.1H0 W182TPE0.1H0 W183TPE0.1H0 W184TPE0.1H0 W185TPE0.1H0  
W186TPE0.1H0 W187TPE0.1H0 W188TPE0.1H0 W189TPE0.1H0 W18ATPE0.1H0 W18BTPE0.1H0

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# Distribution of Wind Vectors

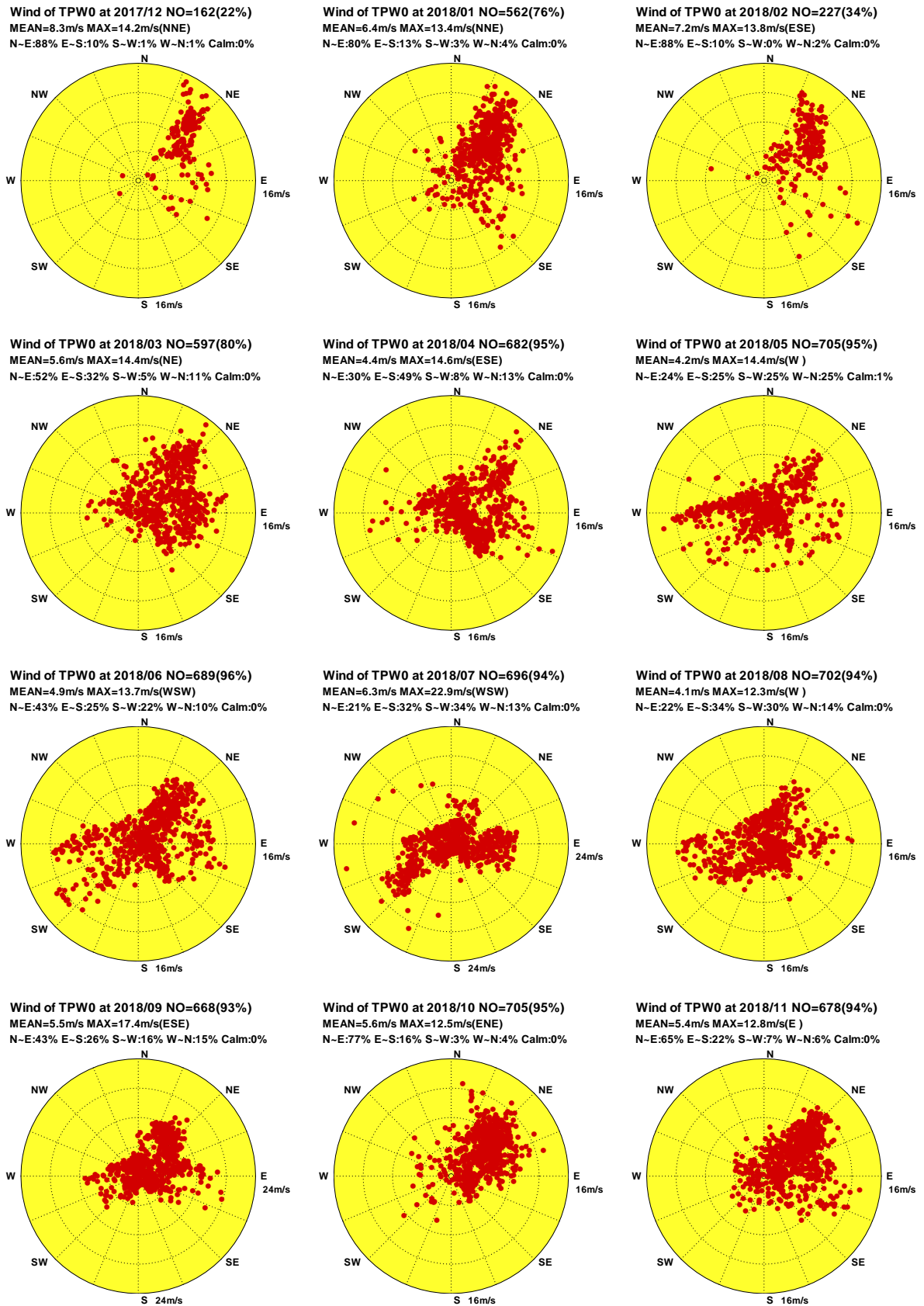


圖 1.5.4 2018 年北苗海域每月 W 站修補前觀測風力向量分佈圖

W17CTPW0.1H0 W181TPW0.1H0 W182TPW0.1H0 W183TPW0.1H0 W184TPW0.1H0 W185TPW0.1H0  
W186TPW0.1H0 W187TPW0.1H0 W188TPW0.1H0 W189TPW0.1H0 W18ATPW0.1H0 W18BTPW0.1H0

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# Distribution of Wind Vectors

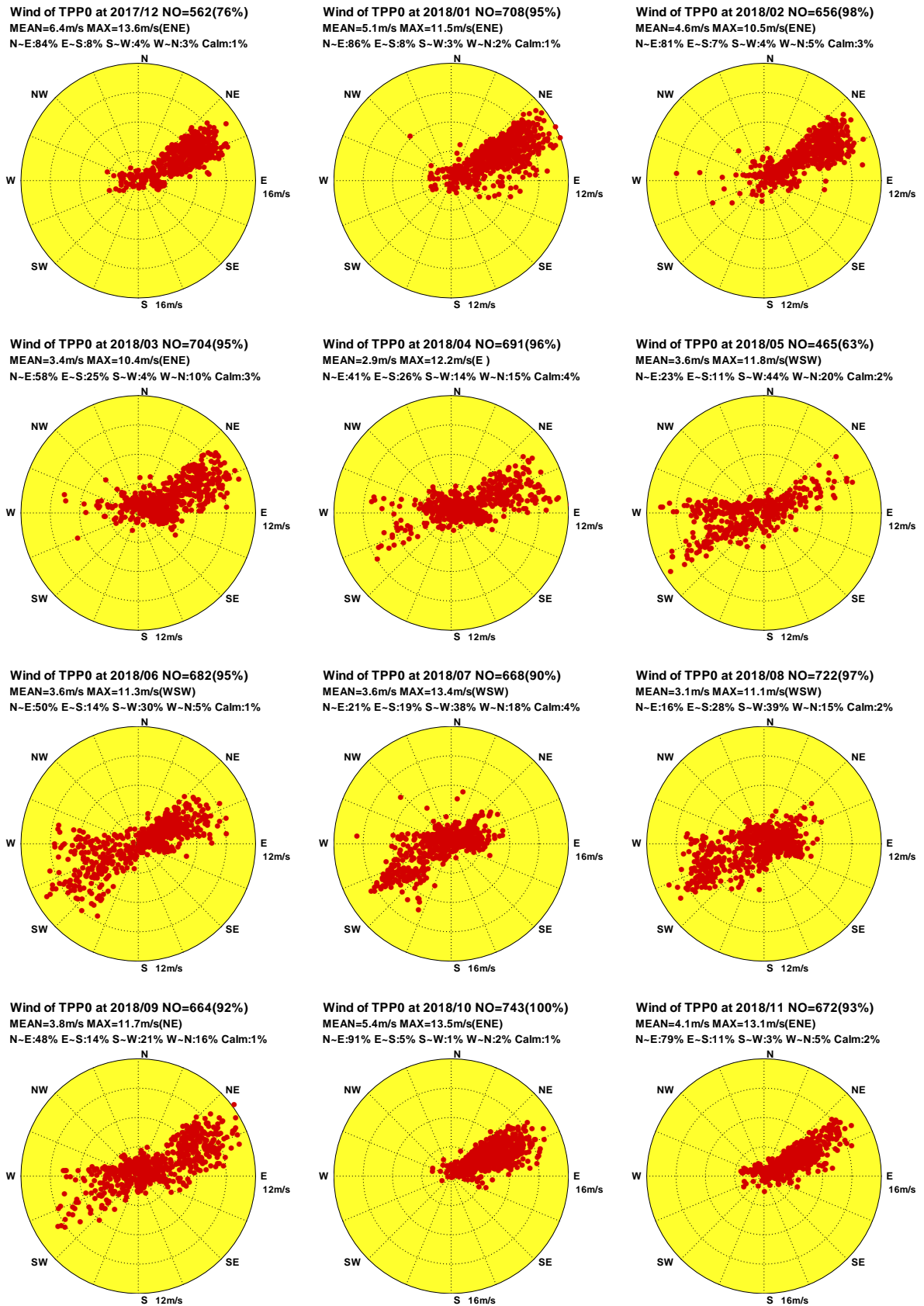


圖 1.5.5 2018 年北苗海域每月 P 站修補前觀測風力向量分佈圖

W17CTPP0.1H0 W181TPP0.1H0 W182TPP0.1H0 W183TPP0.1H0 W184TPP0.1H0 W185TPP0.1H0  
 W186TPP0.1H0 W187TPP0.1H0 W188TPP0.1H0 W189TPP0.1H0 W18ATPP0.1H0 W18BTPP0.1H0

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# Distribution of Wind Vectors

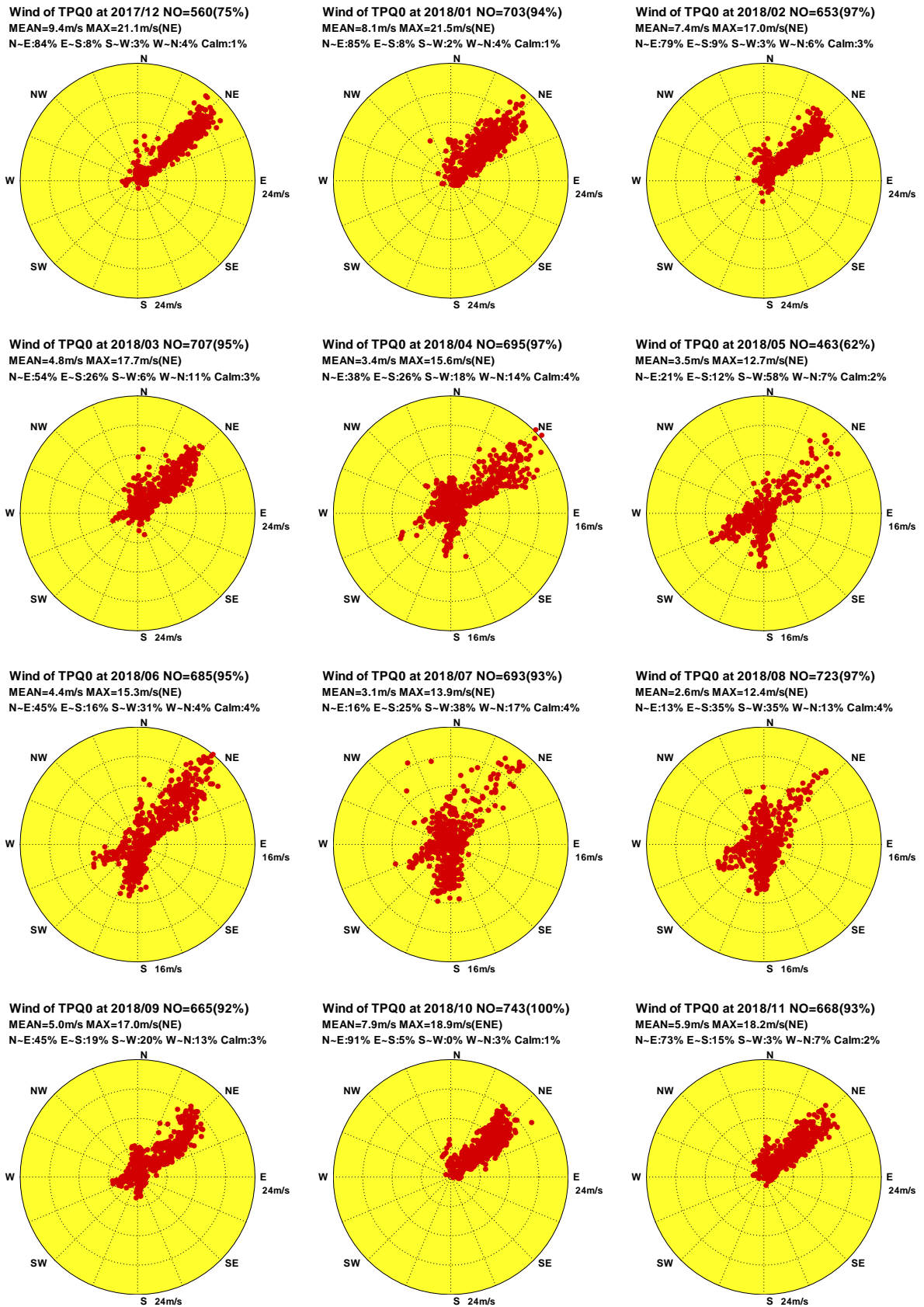


圖 1.5.6 2018 年北苗海域每月 Q 站修補前觀測風力向量分佈圖

W17CTPQ0.1H0 W181TPQ0.1H0 W182TPQ0.1H0 W183TPQ0.1H0 W184TPQ0.1H0 W185TPQ0.1H0  
W186TPQ0.1H0 W187TPQ0.1H0 W188TPQ0.1H0 W189TPQ0.1H0 W18ATPQ0.1H0 W18BTPQ0.1H0

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# Distribution of Wind Vectors

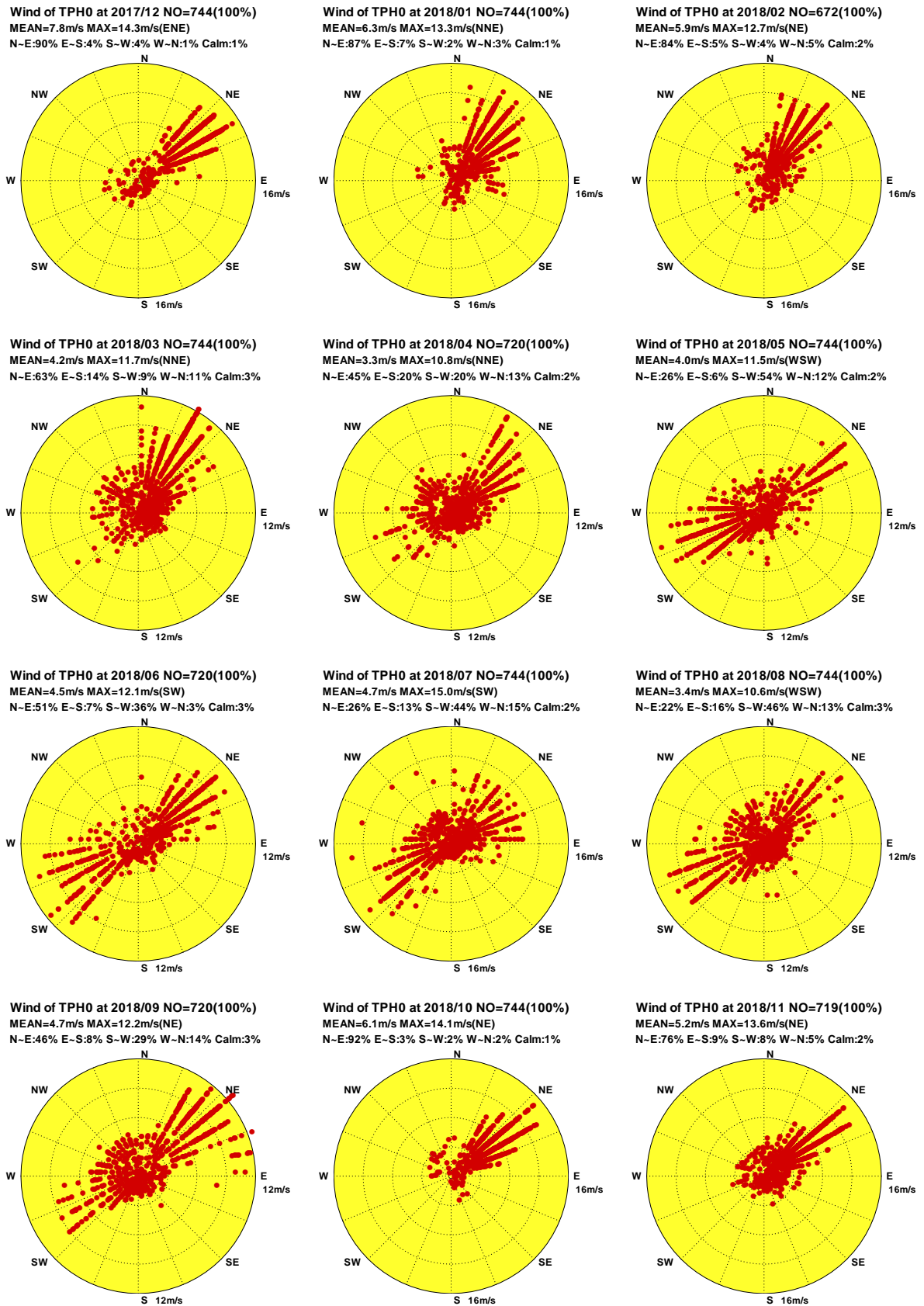


圖1.5.7 2018年北苗海域每月 H 站修補前觀測風力向量分佈圖

W17CTPH0.1H0 W181TPH0.1H0 W182TPH0.1H0 W183TPH0.1H0 W184TPH0.1H0 W185TPH0.1H0  
W186TPH0.1H0 W187TPH0.1H0 W188TPH0.1H0 W189TPH0.1H0 W18ATPH0.1H0 W18BTPH0.1H0

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# Distribution of Wind Vectors

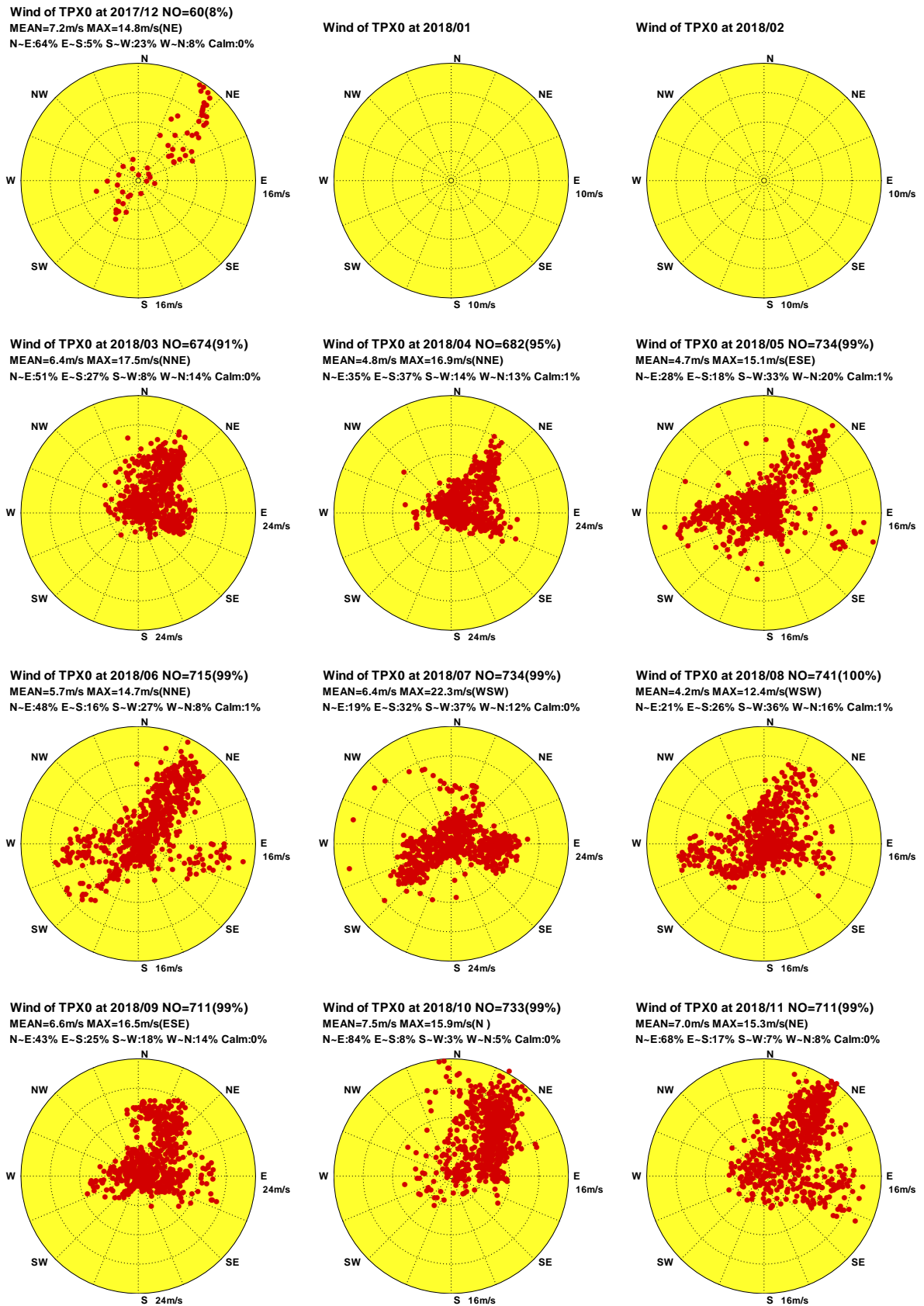


圖1.5.8 2018年北苗海域每月I站修補前觀測風力向量分佈圖

W17CTPX0.1H0 W181TPX0.1H0 W182TPX0.1H0 W183TPX0.1H0 W184TPX0.1H0 W185TPX0.1H0  
 W186TPX0.1H0 W187TPX0.1H0 W188TPX0.1H0 W189TPX0.1H0 W18ATPX0.1H0 W18BTPX0.1H0

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## 1.6 2018 年北苗海域風力各測站修補前 風力向量行進圖



# Progressive Vector Diagram of Wind

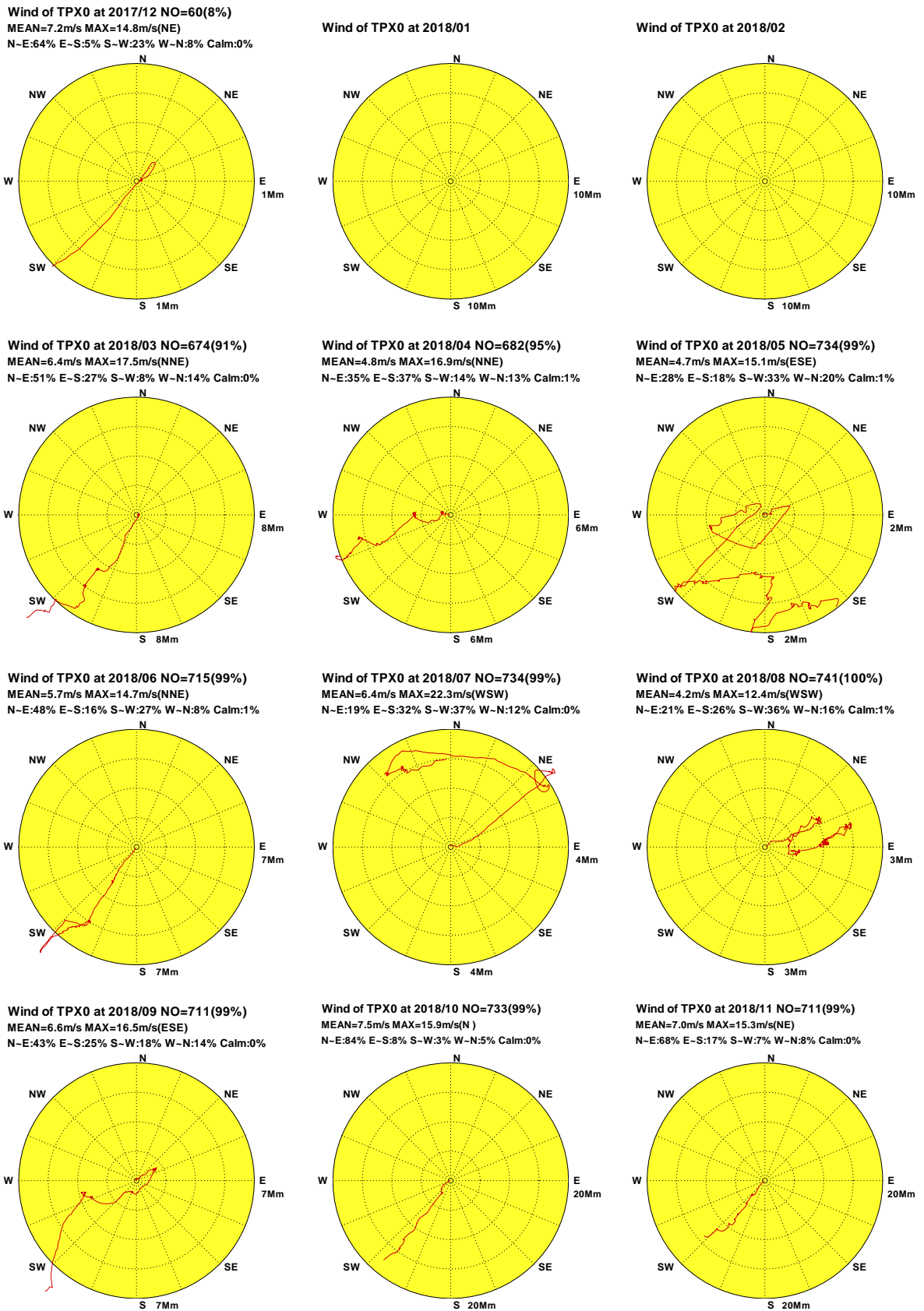


圖1.6.1 2018年北苗海域每月 X 站修補前觀測風力向量行進圖

W17CTPX0.1H0 W181TPX0.1H0 W182TPX0.1H0 W183TPX0.1H0 W184TPX0.1H0 W185TPX0.1H0  
W186TPX0.1H0 W187TPX0.1H0 W188TPX0.1H0 W189TPX0.1H0 W18ATPX0.1H0 W18BTPX0.1H0

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# Progressive Vector Diagram of Wind

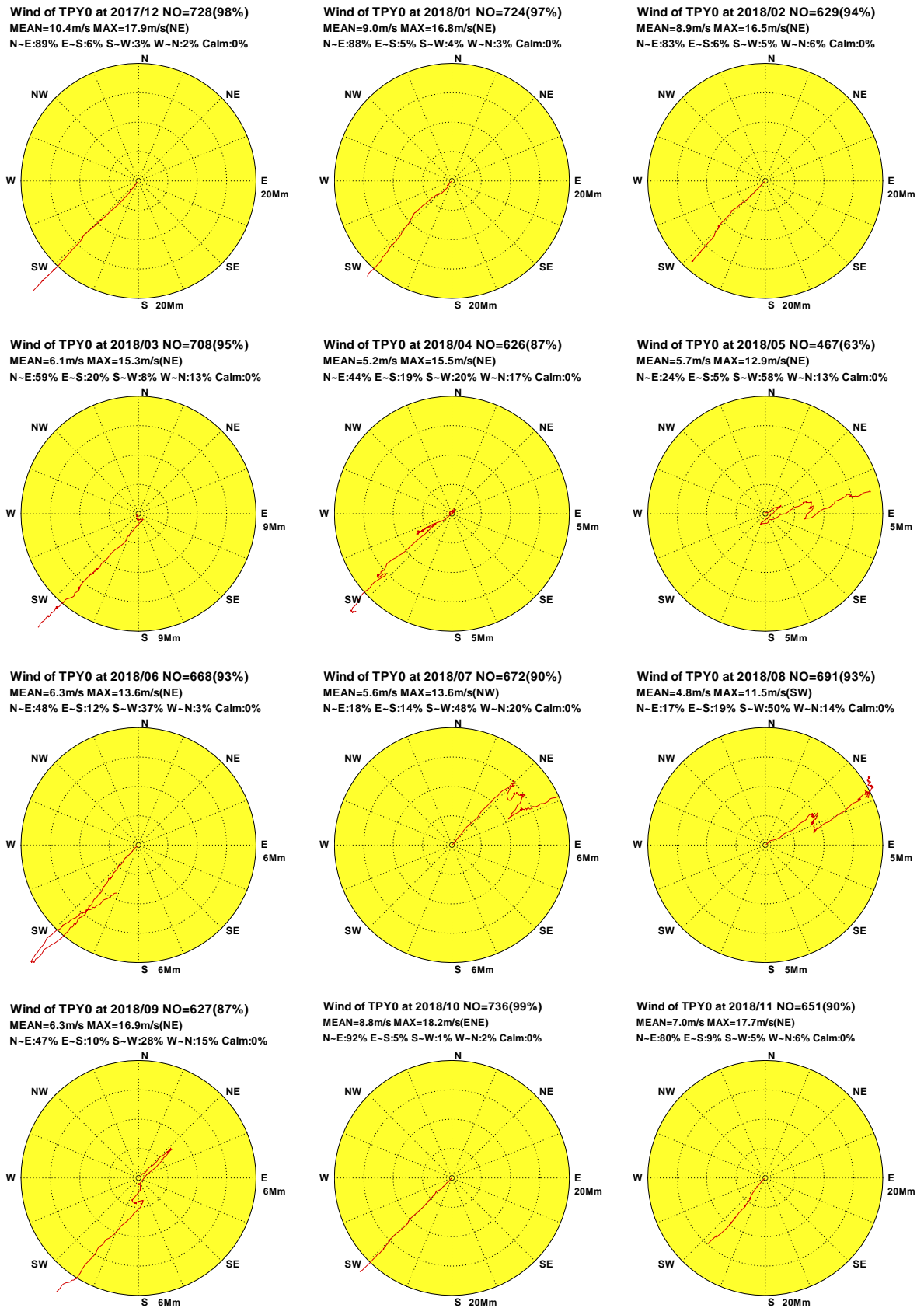


圖1.6.2 2018年北苗海域每月 Y 站修補前觀測風力向量行進圖

W17CTPY0.1H0 W181TPY0.1H0 W182TPY0.1H0 W183TPY0.1H0 W184TPY0.1H0 W185TPY0.1H0  
 W186TPY0.1H0 W187TPY0.1H0 W188TPY0.1H0 W189TPY0.1H0 W18ATPY0.1H0 W18BTPY0.1H0

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# Progressive Vector Diagram of Wind

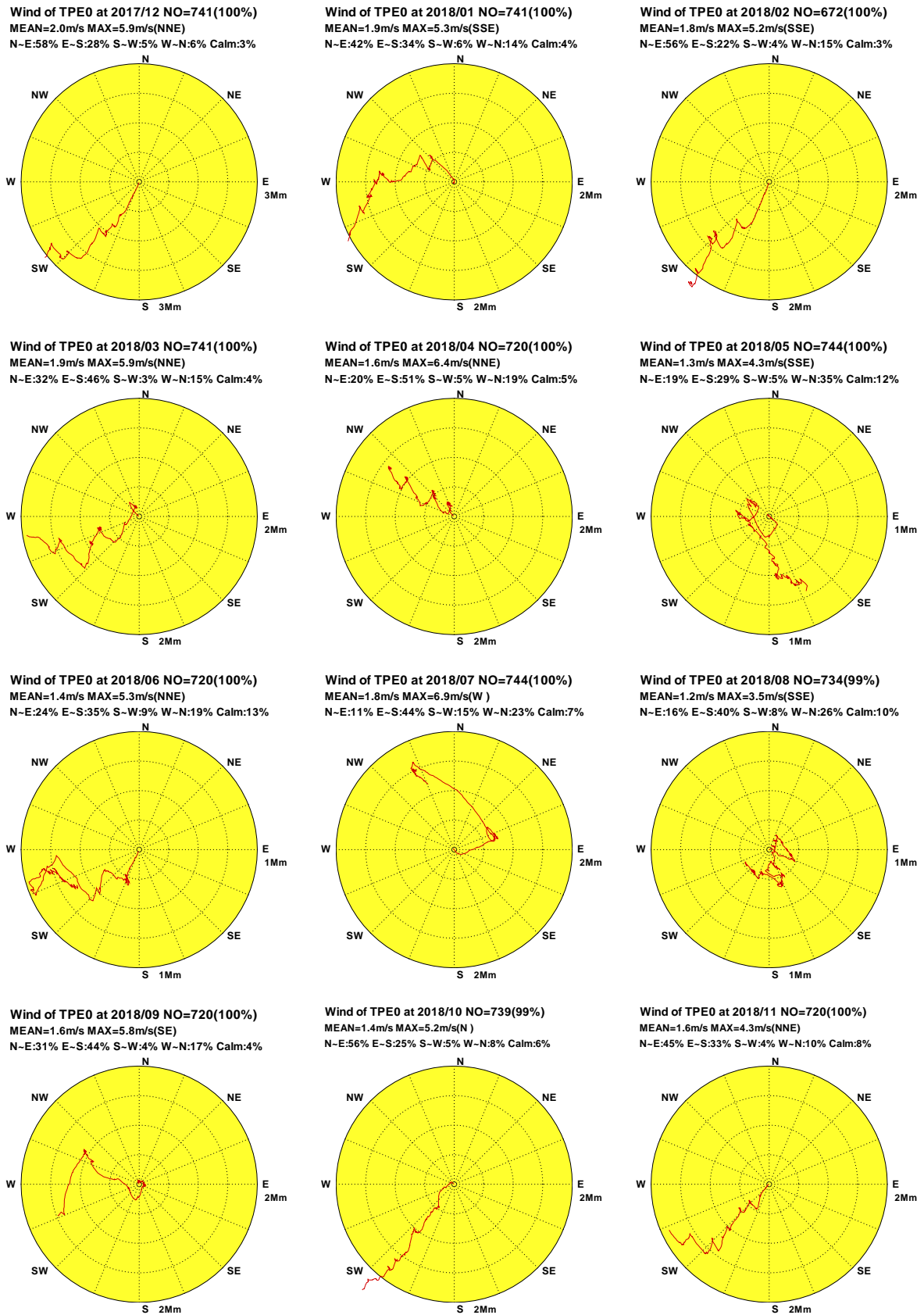


圖1.6.3 2018年北苗海域每月 E 站修補前觀測風力向量行進圖

W17CTPE0.1H0 W181TPE0.1H0 W182TPE0.1H0 W183TPE0.1H0 W184TPE0.1H0 W185TPE0.1H0  
W186TPE0.1H0 W187TPE0.1H0 W188TPE0.1H0 W189TPE0.1H0 W18ATPE0.1H0 W18BTPE0.1H0

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# Progressive Vector Diagram of Wind

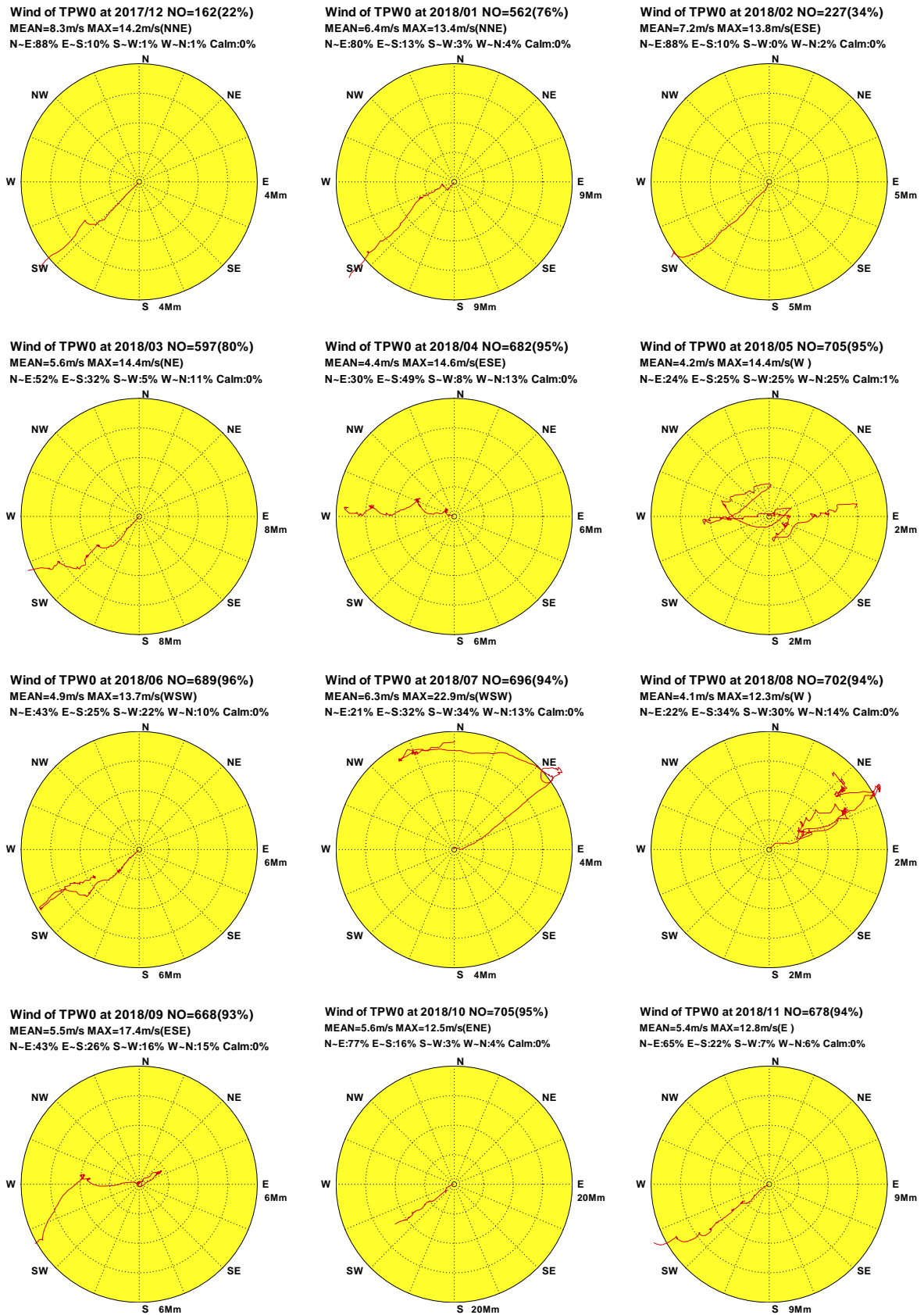


圖 1.6.4 2018 年北苗海域每月 W 站修補前觀測風力向量行進圖

W17CTPW0.1H0 W181TPW0.1H0 W182TPW0.1H0 W183TPW0.1H0 W184TPW0.1H0 W185TPW0.1H0  
 W186TPW0.1H0 W187TPW0.1H0 W188TPW0.1H0 W189TPW0.1H0 W18ATPW0.1H0 W18BTPW0.1H0

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# Progressive Vector Diagram of Wind

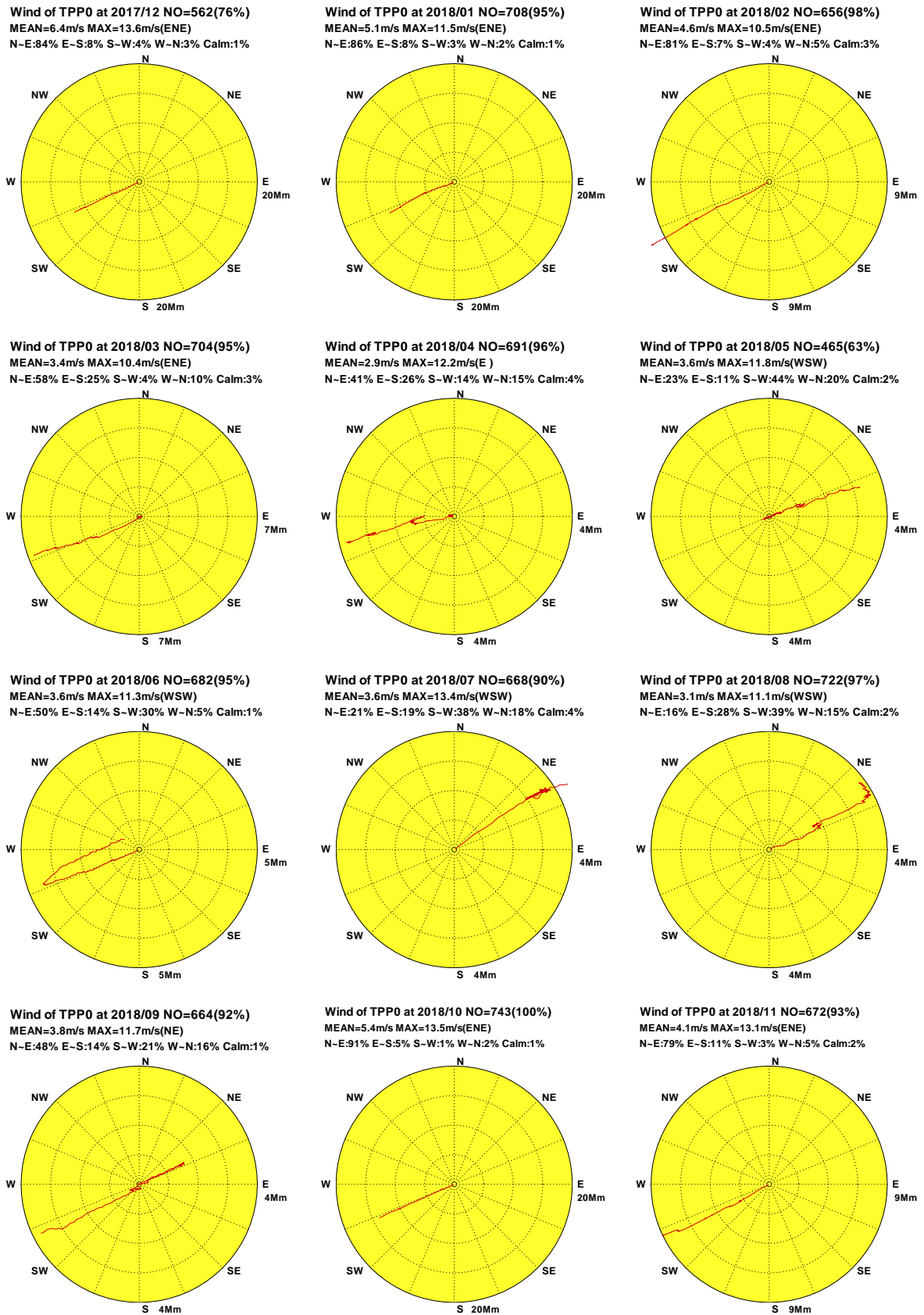


圖1.6.5 2018年北苗海域每月P站修補前觀測風力向量行進圖

W17CTPP0.1H0 W181TPP0.1H0 W182TPP0.1H0 W183TPP0.1H0 W184TPP0.1H0 W185TPP0.1H0  
 W186TPP0.1H0 W187TPP0.1H0 W188TPP0.1H0 W189TPP0.1H0 W18ATPP0.1H0 W18BTPP0.1H0

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# Progressive Vector Diagram of Wind

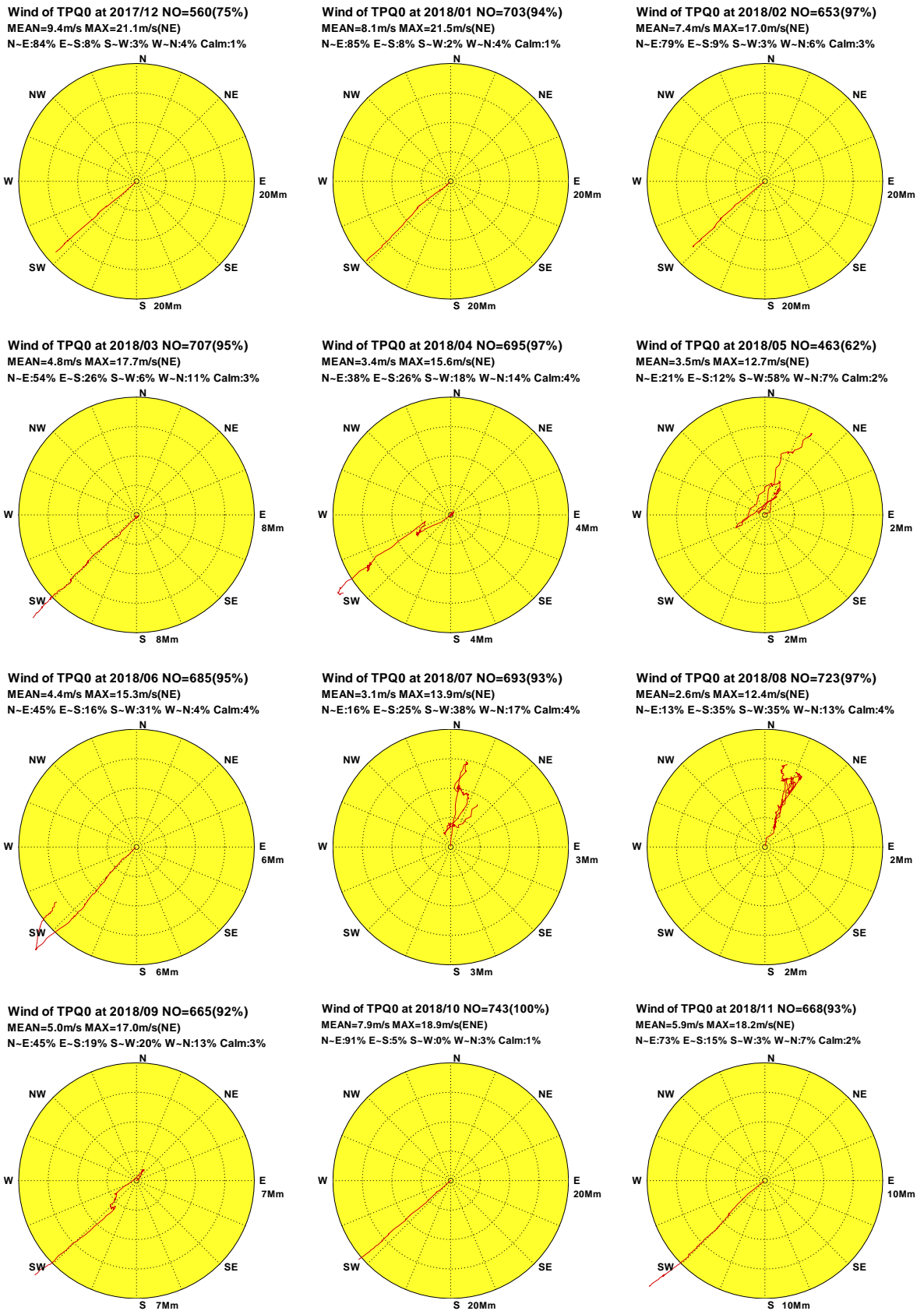


圖1.6.6 2018年北苗海域每月 Q 站修補前觀測風力向量行進圖

W17CTPQ0.1H0 W181TPQ0.1H0 W182TPQ0.1H0 W183TPQ0.1H0 W184TPQ0.1H0 W185TPQ0.1H0  
W186TPQ0.1H0 W187TPQ0.1H0 W188TPQ0.1H0 W189TPQ0.1H0 W18ATPQ0.1H0 W18BTPQ0.1H0

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# Progressive Vector Diagram of Wind

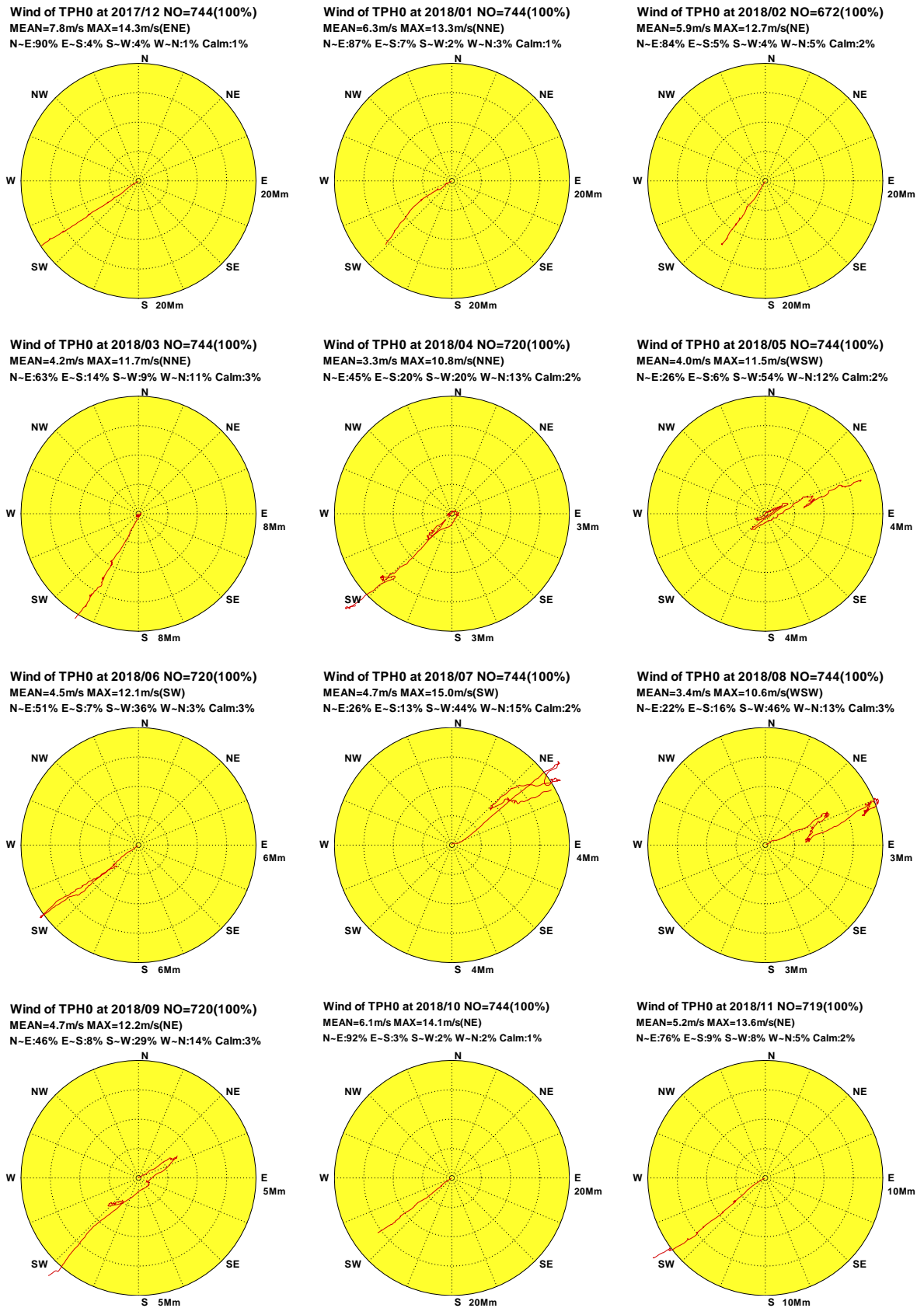


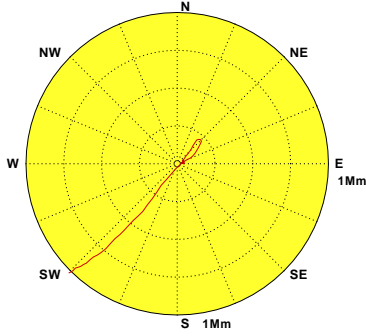
圖1.6.7 2018年北苗海域每月 H 站修補前觀測風力向量行進圖

W17CTPH0.1H0 W181TPH0.1H0 W182TPH0.1H0 W183TPH0.1H0 W184TPH0.1H0 W185TPH0.1H0  
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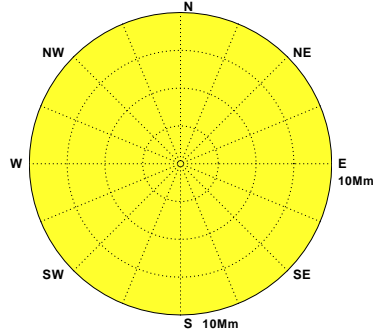
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# Progressive Vector Diagram of Wind

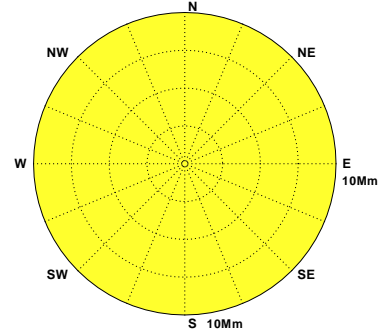
Wind of TPX0 at 2017/12 NO=60(8%)  
 MEAN=7.2m/s MAX=14.8m/s(NE)  
 N-E:64% E-S:5% S-W:23% W-N:8% Calm:0%



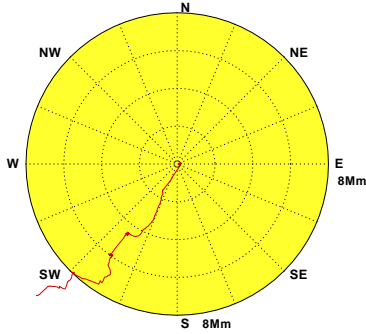
Wind of TPX0 at 2018/01



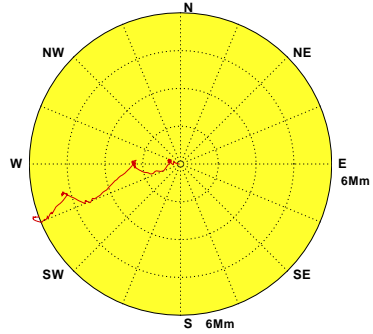
Wind of TPX0 at 2018/02



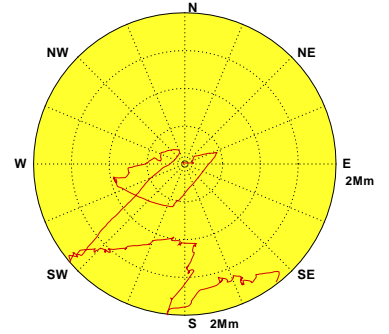
Wind of TPX0 at 2018/03 NO=674(91%)  
 MEAN=6.4m/s MAX=17.5m/s(NNE)  
 N-E:51% E-S:27% S-W:8% W-N:14% Calm:0%



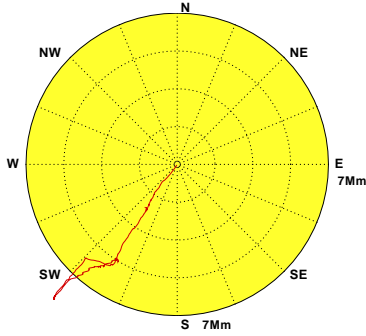
Wind of TPX0 at 2018/04 NO=682(95%)  
 MEAN=4.8m/s MAX=16.9m/s(NNE)  
 N-E:35% E-S:37% S-W:14% W-N:13% Calm:1%



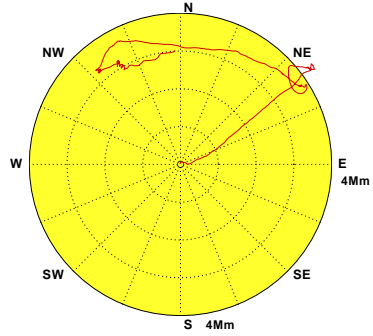
Wind of TPX0 at 2018/05 NO=734(99%)  
 MEAN=4.7m/s MAX=15.1m/s(ESE)  
 N-E:28% E-S:18% S-W:33% W-N:20% Calm:1%



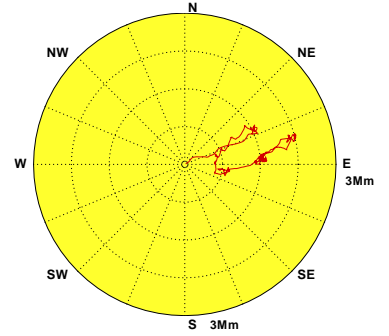
Wind of TPX0 at 2018/06 NO=715(99%)  
 MEAN=5.7m/s MAX=14.7m/s(NNE)  
 N-E:48% E-S:16% S-W:27% W-N:8% Calm:1%



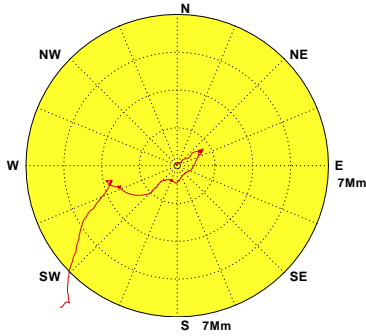
Wind of TPX0 at 2018/07 NO=734(99%)  
 MEAN=6.4m/s MAX=22.3m/s(WSW)  
 N-E:19% E-S:32% S-W:37% W-N:12% Calm:0%



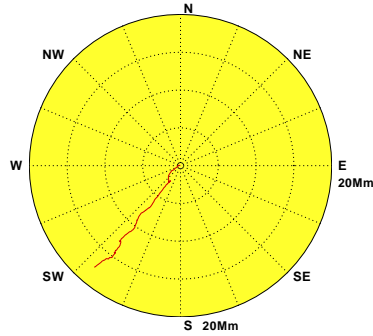
Wind of TPX0 at 2018/08 NO=741(100%)  
 MEAN=4.2m/s MAX=12.4m/s(WSW)  
 N-E:21% E-S:26% S-W:36% W-N:16% Calm:1%



Wind of TPX0 at 2018/09 NO=711(99%)  
 MEAN=6.6m/s MAX=16.5m/s(ESE)  
 N-E:43% E-S:25% S-W:18% W-N:14% Calm:0%



Wind of TPX0 at 2018/10 NO=733(99%)  
 MEAN=7.5m/s MAX=15.9m/s(N)  
 N-E:84% E-S:8% S-W:3% W-N:5% Calm:0%



Wind of TPX0 at 2018/11 NO=711(99%)  
 MEAN=7.0m/s MAX=15.3m/s(NE)  
 N-E:68% E-S:17% S-W:7% W-N:8% Calm:0%

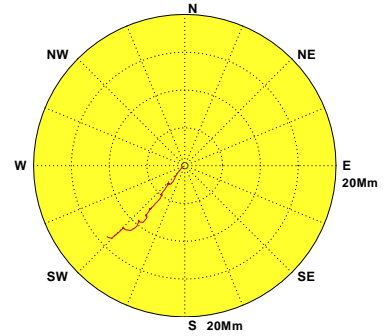


圖1.6.8 2018年北苗海域每月I站修補前觀測風力向量行進圖

W17CTPX0.1H0 W181TPX0.1H0 W182TPX0.1H0 W183TPX0.1H0 W184TPX0.1H0 W185TPX0.1H0  
 W186TPX0.1H0 W187TPX0.1H0 W188TPX0.1H0 W189TPX0.1H0 W18ATPX0.1H0 W18BTPX0.1H0

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## 第二章 2018 年北苗海域觀測波浪資料年報年報

北苗海域(新北~苗栗)波浪之觀測包括測站 X 及測站 Y 等 2 個測站(測站位置如第 0 章圖 VP1)。本年報取經檢核及補遺之 X 站資料作為主要測站 1，Y 站資料作為主要測站 2。

### 2.1 2018 年北苗海域觀測風力資料年報圖表

本章第 1 節波浪年報資料處理之圖表包括：

1. 表 2.1.1a 2018 年各觀測站每月觀測波浪資料修補前記錄表。
2. 表 2.1.1b 2018 年主要測站每月觀測波浪資料修補後記錄表。
3. 表 2.1.2 2018 年主要測站 1 修補後每月(季)及整年示性波高、示性週期及波向重要統計量統計表。
4. 表 2.1.3 2018 年主要測站 2 修補後每月(季)及整年示性波高、示性週期及波向重要統計量統計表。
5. 圖 2.1.1a 2018 年主要測站 1 修補前後每月示性波高歷線比較圖。
6. 圖 2.1.1b 2018 年主要測站 1 修補前後每月示性週期歷線比較圖。
7. 圖 2.1.1c 2018 年主要測站 1 修補前後每月波向歷線比較圖。
8. 圖 2.1.2a 2018 年主要測站 2 修補前後每月示性波高歷線比較圖。
9. 圖 2.1.2b 2018 年主要測站 2 修補前後每月示性週期歷線比較圖。
10. 圖 2.1.2c 2018 年主要測站 2 修補前後每月波向歷線比較圖。
11. 圖 2.1.3 2018 年主要測站 1 修補後每月波高向量分佈圖。

12. 圖 2.1.4 2018 年**主要測站 2 修補後**每月波高向量分佈圖。

第 2 節波浪年報資料處理之統計表包括: 2018 年北苗海域**各測站修補前**每月(季)及整年示性波高、示性週期及波向重要統計量統計表。

第 3 節波浪年報資料處理之統計圖包括: 2018 年北苗海域**主要測站 1 修補後**與**其他測站(修補前)**每月示性波高、示性週期及波向歷線比較圖。

第 4 節波浪年報資料處理之統計圖包括: 2018 年北苗海域**主要測站 2 修補後**與**其他測站(修補前)**每月示性波高、示性週期及波向歷線比較圖。

第 5 節波浪年報資料處理之統計圖包括: 2018 年北苗海域**各測站修補前**每月波高向量分佈圖。

表 2.1.1a 2018年每月北苗海域修補前各測站觀測波浪資料紀錄表

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	北苗海域	北苗海域	北苗海域	北苗海域	北苗海域
年月/測站	X	Y										
2017/12月	211(28.4%)	740(99.5%)	*	*	*	*	*	*	*	*	*	*
2018/ 1月	713(95.8%)	729(98.0%)	*	*	*	*	*	*	*	*	*	*
2018/ 2月	640(95.2%)	660(98.2%)	*	*	*	*	*	*	*	*	*	*
2018/ 3月	632(84.9%)	730(98.1%)	*	*	*	*	*	*	*	*	*	*
2018/ 4月	698(96.9%)	710(98.6%)	*	*	*	*	*	*	*	*	*	*
2018/ 5月	719(96.6%)	713(95.8%)	*	*	*	*	*	*	*	*	*	*
2018/ 6月	710(98.6%)	718(99.7%)	*	*	*	*	*	*	*	*	*	*
2018/ 7月	734(98.7%)	734(98.7%)	*	*	*	*	*	*	*	*	*	*
2018/ 8月	741(99.6%)	740(99.5%)	*	*	*	*	*	*	*	*	*	*
2018/ 9月	691(96.0%)	720(100%)	*	*	*	*	*	*	*	*	*	*
2018/10月	692(93.0%)	739(99.3%)	*	*	*	*	*	*	*	*	*	*
2018/11月	709(98.5%)	715(99.3%)	*	*	*	*	*	*	*	*	*	*
2018/冬季	1564(72.4%)	2129(98.6%)	*	*	*	*	*	*	*	*	*	*
2018/春季	2049(92.8%)	2153(97.5%)	*	*	*	*	*	*	*	*	*	*
2018/夏季	2185(99.0%)	2192(99.3%)	*	*	*	*	*	*	*	*	*	*
2018/秋季	2092(95.8%)	2174(99.5%)	*	*	*	*	*	*	*	*	*	*
2018/整年	7890(90.1%)	8648(98.7%)	*	*	*	*	*	*	*	*	*	*
起始年月	2017/12	2017/12	*	*	*	*	*	*	*	*	*	*
結束年月	2018/11	2018/11	*	*	*	*	*	*	*	*	*	*

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表 2.1.1b 2018年每月北苗海域修補後各測站波浪資料紀錄表

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	北苗海域	北苗海域	北苗海域	北苗海域	北苗海域
年月/測站	X	Y										
2017/12月	744(100%)	744(100%)	*	*	*	*	*	*	*	*	*	*
2018/ 1月	744(100%)	744(100%)	*	*	*	*	*	*	*	*	*	*
2018/ 2月	672(100%)	672(100%)	*	*	*	*	*	*	*	*	*	*
2018/ 3月	744(100%)	744(100%)	*	*	*	*	*	*	*	*	*	*
2018/ 4月	720(100%)	720(100%)	*	*	*	*	*	*	*	*	*	*
2018/ 5月	744(100%)	744(100%)	*	*	*	*	*	*	*	*	*	*
2018/ 6月	720(100%)	720(100%)	*	*	*	*	*	*	*	*	*	*
2018/ 7月	744(100%)	744(100%)	*	*	*	*	*	*	*	*	*	*
2018/ 8月	744(100%)	744(100%)	*	*	*	*	*	*	*	*	*	*
2018/ 9月	720(100%)	720(100%)	*	*	*	*	*	*	*	*	*	*
2018/10月	744(100%)	744(100%)	*	*	*	*	*	*	*	*	*	*
2018/11月	720(100%)	720(100%)	*	*	*	*	*	*	*	*	*	*
2018/冬季	2160(100%)	2160(100%)	*	*	*	*	*	*	*	*	*	*
2018/春季	2208(100%)	2208(100%)	*	*	*	*	*	*	*	*	*	*
2018/夏季	2208(100%)	2208(100%)	*	*	*	*	*	*	*	*	*	*
2018/秋季	2184(100%)	2184(100%)	*	*	*	*	*	*	*	*	*	*
2018/整年	8760(100%)	8760(100%)	*	*	*	*	*	*	*	*	*	*
起始年月	2017/12	2017/12	*	*	*	*	*	*	*	*	*	*
結束年月	2018/11	2018/11	*	*	*	*	*	*	*	*	*	*

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表2.1.2 2018年北苗海域主要測站1修補後示性波高週期及波向重要統計量統計表

觀測 日期 年、月	波高 $H_s$		$H_s$ 最大	$T_p$	$T_p$	小波	小浪	中浪	大浪	$T_p$	$T_p$	$T_p$	$T_p$	波向	波向	波向	波向	波向	主波向
	蒐集 率	平均 (m)	(波高/週期/波向) (m/s/來向)	平均 (s)	最大 (s)	<0.5m (%)	~1.5m (%)	~3m (%)	>3m (%)	<6s (%)	6~8s (%)	8~10s (%)	>10s (%)	蒐集 率	N~E (%)	E~S (%)	S~W (%)	W~N (%)	(百分比) 來向/%
2017/12	100%	2.87	7.8/12.2/NNE	8.5	37.5	1.3	16.9	37.9	43.8	4.3	28.2	57.5	9.9	100%	82.7	1.5	2.8	13.0	NNE/46%
2018/01	100%	1.69	5.0/ 9.6/NW	7.4	10.3	3.4	41.4	47.3	7.9	12.8	55.1	30.1	2.0	100%	32.3	1.9	8.9	57.0	NNW/24%
2018/02	100%	1.73	5.2/10.7/NNW	7.4	10.7	6.5	41.2	41.1	11.2	15.9	44.9	38.1	1.0	100%	31.5	.7	6.8	60.9	NNW/26%
2018/03	100%	1.20	3.7/ 7.1/NNW	7.1	11.4	19.8	50.9	26.3	3.0	30.6	35.3	30.1	3.9	100%	64.1	.9	2.4	32.5	NNE/29%
2018/04	100%	.79	5.4/11.6/N	6.5	12.6	45.7	41.9	10.4	1.9	49.7	26.5	15.1	8.6	100%	28.1	.4	6.5	65.0	NW /20%
2018/05	100%	.72	2.3/ 6.8/NNE	5.7	11.3	37.9	54.8	7.3	.0	59.7	23.5	13.8	3.0	100%	13.8	.0	29.6	56.6	W /25%
2018/06	100%	.85	2.3/ 7.9/N	5.7	10.1	21.8	68.8	9.4	.0	62.2	26.5	11.1	.1	100%	21.1	.3	28.6	50.0	W /24%
2018/07	100%	.82	4.9/ 8.4/W	6.1	12.8	28.2	63.4	6.7	1.6	54.0	25.9	17.3	2.7	100%	14.5	.3	35.9	49.3	W /33%
2018/08	100%	.70	1.5/ 5.9/NNE	6.7	14.8	24.1	75.4	.5	.0	39.5	34.4	17.6	8.5	100%	5.6	.3	28.5	65.6	W /33%
2018/09	100%	1.26	4.3/ 9.0/NW	6.9	15.5	30.0	36.0	26.8	7.2	36.8	31.5	26.4	5.3	100%	14.3	.1	12.4	73.2	NNW/20%
2018/10	100%	1.59	5.6/10.2/NNW	7.1	13.0	1.1	52.0	41.4	5.5	21.0	56.6	13.8	8.6	100%	24.3	.0	3.1	72.6	NNW/31%
2018/11	100%	1.36	4.9/ 8.0/S	6.7	9.5	2.4	59.9	37.4	.4	25.3	62.8	11.9	.0	100%	34.2	.7	6.0	59.2	N /28%
2018/冬	100%	2.11	7.8/12.2/NNE	7.8	37.5	3.7	32.9	42.1	21.3	10.8	42.7	42.0	4.4	100%	49.4	1.4	6.2	43.1	N /27%
2018/春	100%	.90	5.4/11.6/N	6.4	12.6	34.3	49.3	14.7	1.6	46.6	28.5	19.7	5.1	100%	35.4	.5	12.9	51.2	N /18%
2018/夏	100%	.79	4.9/ 8.4/W	6.2	14.8	24.7	69.2	5.5	.5	51.8	29.0	15.4	3.8	100%	13.7	.3	31.0	55.0	W /30%
2018/秋	100%	1.41	5.6/10.2/NNW	6.9	15.5	11.0	49.3	35.3	4.4	27.6	50.4	17.4	4.7	100%	24.3	.3	7.1	68.4	NNW/24%
2018/年	100%	1.30	7.8/12.2/NNE	6.8	37.5	18.5	50.3	24.3	6.9	34.4	37.6	23.6	4.5	100%	30.6	.6	14.4	54.4	N /19%

表2.1.3 2018年北苗海域主要測站2修補後示性波高週期及波向重要統計量統計表

觀測 日期 年、月	波高 $H_s$		$H_s$ 最大		$T_p$	$T_p$	小波	小浪	中浪	大浪	$T_p$	$T_p$	$T_p$	$T_p$	波向	波向	波向	波向	波向	主波向
	蒐集 率	平均 (m)	(波高/週期/波向) (m/s/來向)		平均 (s)	最大 (s)	<0.5m (%)	~1.5m (%)	~3m (%)	>3m (%)	<6s (%)	6~8s (%)	8~10s (%)	>10s (%)	蒐集 率	N~E (%)	E~S (%)	S~W (%)	W~N (%)	(百分比) 來向/%
2017/12	100%	1.86	4.5/ 7.2/NNW	5.4	7.7	.1	33.3	61.0	5.5	87.1	12.9	.0	.0	100%	86.7	.0	.0	13.3	N /79%	
2018/01	100%	1.51	3.9/ 7.1/NNW	5.1	7.1	4.8	47.8	44.9	2.4	88.6	11.4	.0	.0	100%	70.6	.0	.0	29.4	N /66%	
2018/02	100%	1.47	3.5/ 7.3/N	5.1	7.3	10.3	42.0	47.0	.7	93.2	6.8	.0	.0	100%	75.9	.0	.6	23.5	N /64%	
2018/03	100%	.98	2.9/ 6.0/NNW	4.8	6.4	24.2	56.9	19.0	.0	97.3	2.7	.0	.0	100%	82.4	.0	1.2	16.4	N /65%	
2018/04	100%	.63	3.3/ 7.2/NNW	4.3	7.2	55.7	39.3	4.7	.3	98.5	1.5	.0	.0	100%	71.1	.0	3.9	25.0	N /52%	
2018/05	100%	.58	1.8/ 5.3/N	4.0	6.2	49.2	47.2	3.6	.0	99.7	.3	.0	.0	100%	39.2	.0	16.4	44.4	N /30%	
2018/06	100%	.73	2.2/ 6.1/NNE	4.4	6.7	35.6	61.0	3.5	.0	98.8	1.3	.0	.0	100%	46.1	.0	9.6	44.3	N /31%	
2018/07	100%	.62	2.6/ 5.8/N	4.5	7.2	39.1	58.3	2.6	.0	96.5	3.5	.0	.0	100%	32.8	.1	18.4	48.7	W /27%	
2018/08	100%	.60	1.5/ 4.9/N	4.7	6.8	35.5	64.5	.0	.0	96.5	3.5	.0	.0	100%	26.3	.0	23.4	50.3	W /27%	
2018/09	100%	.99	2.7/ 6.4/N	4.9	7.4	34.2	39.6	26.3	.0	91.1	8.9	.0	.0	100%	56.8	.0	15.4	27.8	N /41%	
2018/10	100%	1.28	2.6/ 6.4/N	4.9	7.4	2.4	67.3	30.2	.0	94.2	5.8	.0	.0	100%	95.2	.0	.0	4.8	N /63%	
2018/11	100%	1.18	3.0/ 6.0/NNE	5.0	6.6	4.7	73.5	21.7	.1	98.3	1.7	.0	.0	100%	80.8	.0	.0	19.2	N /60%	
2018/冬	100%	1.62	4.5/ 7.2/NNW	5.2	7.7	4.9	41.0	51.1	3.0	89.5	10.5	.0	.0	100%	77.8	.0	.2	22.0	N /70%	
2018/春	100%	.73	3.3/ 7.2/NNW	4.4	7.2	42.9	47.9	9.1	.1	98.5	1.5	.0	.0	100%	64.2	.0	7.2	28.6	N /49%	
2018/夏	100%	.65	2.6/ 5.8/N	4.5	7.2	36.7	61.3	2.0	.0	97.2	2.8	.0	.0	100%	35.0	.0	17.2	47.8	N /24%	
2018/秋	100%	1.15	3.0/ 6.0/NNE	4.9	7.4	13.6	60.2	26.1	.0	94.6	5.4	.0	.0	100%	77.8	.0	5.1	17.1	N /55%	
2018/年	100%	1.03	4.5/ 7.2/NNW	4.7	7.7	24.7	52.6	21.9	.8	95.0	5.0	.0	.0	100%	63.6	.0	7.5	29.0	N /49%	

# Wave $H_s$ in Pei-Miao Seas of TPX0 at 2018

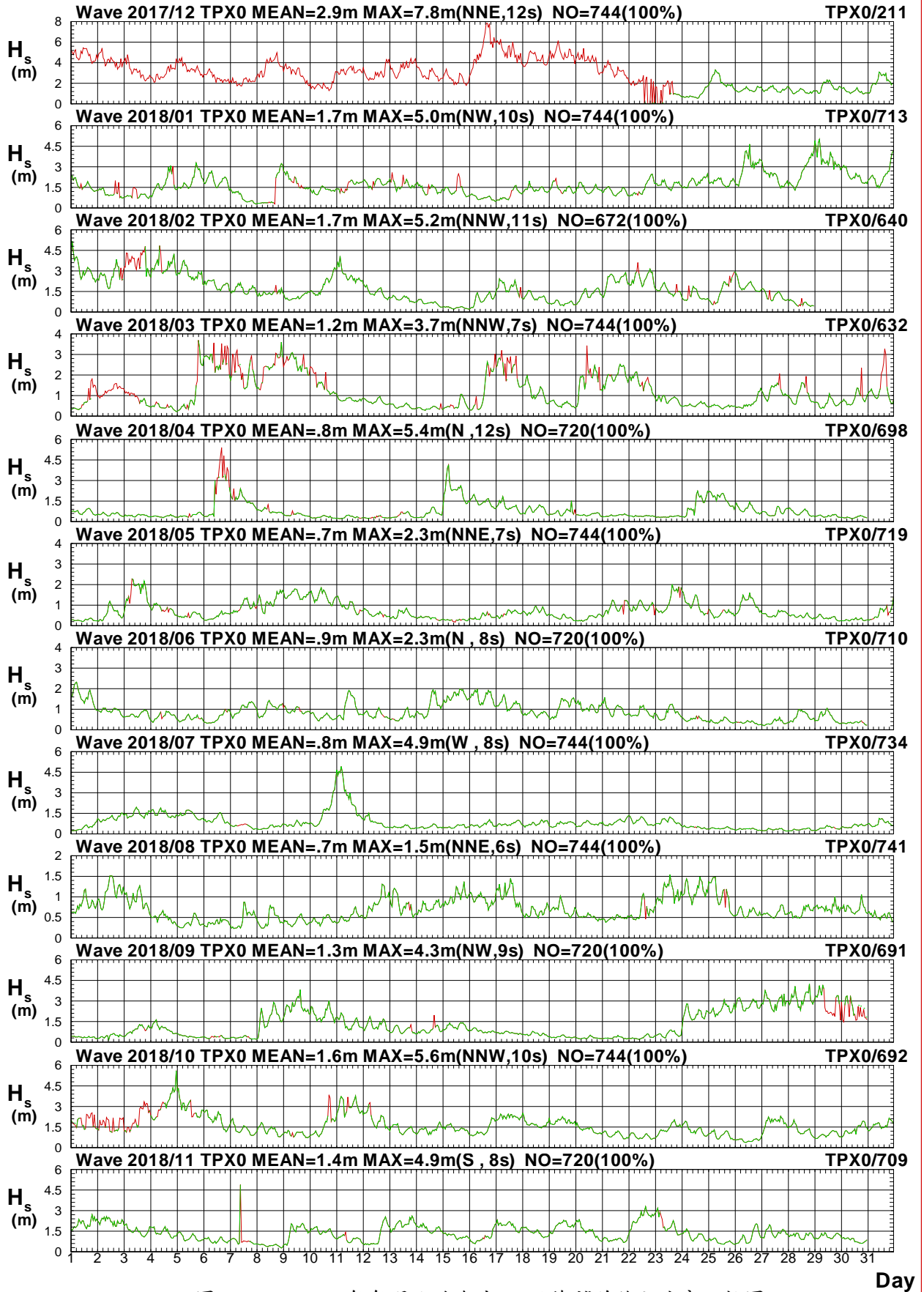


圖2.1.1a 2018年每月北苗海域 X 站修補前後之波高比較圖

V17CTPX0.1HA V17CTPX0.1HO V181TPX0.1HA V181TPX0.1HO V182TPX0.1HA V182TPX0.1HO  
 V183TPX0.1HA V183TPX0.1HO V184TPX0.1HA V184TPX0.1HO V185TPX0.1HA V185TPX0.1HO

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# Wave $T_p$ in Pei-Miao Seas of TPX0 at 2018

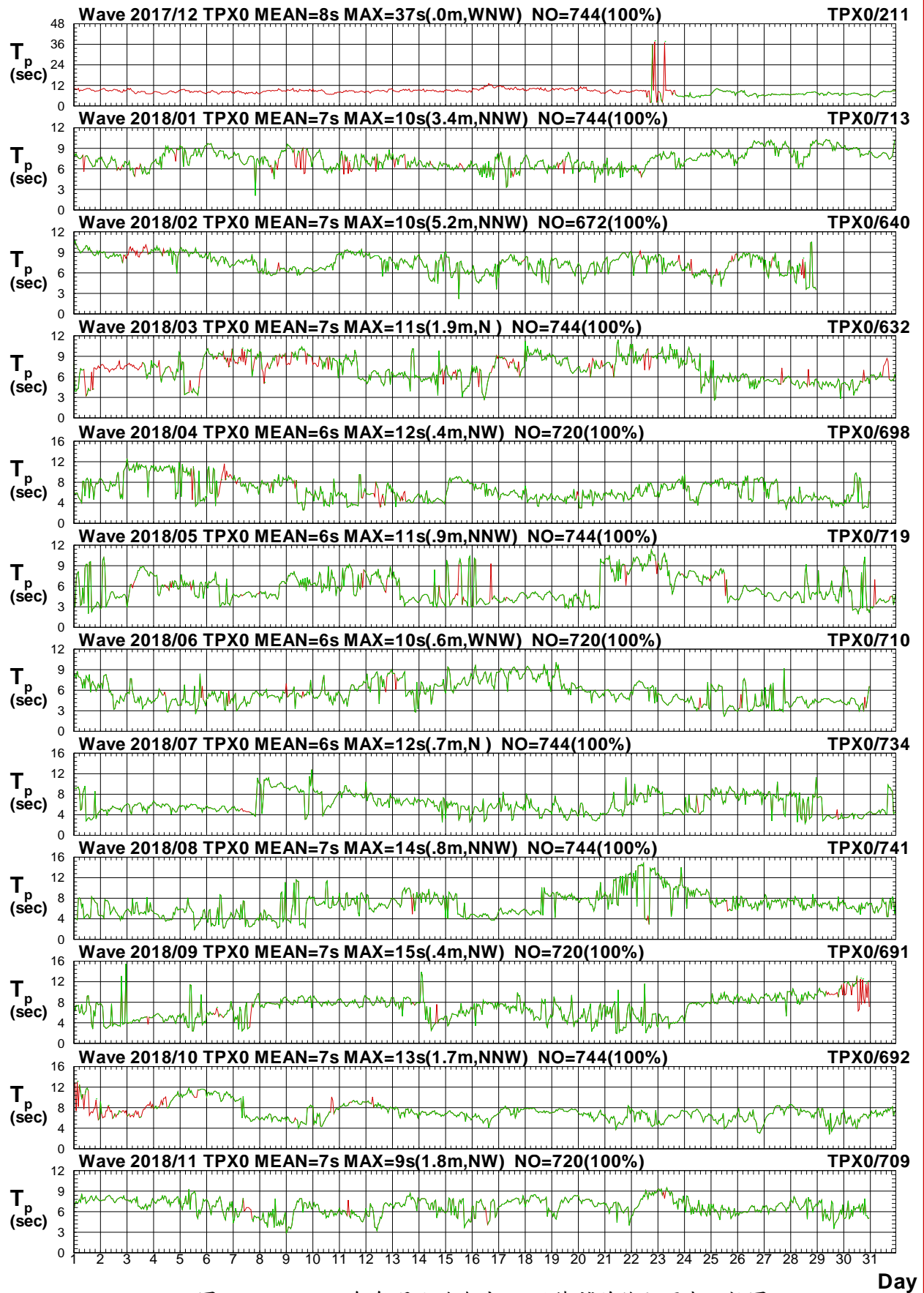


圖2.1.1b 2018年每月北苗海域 X 站修補前後之週期比較圖

V17CTPX0.1HA V17CTPX0.1HO V181TPX0.1HA V181TPX0.1HO V182TPX0.1HA V182TPX0.1HO  
 V183TPX0.1HA V183TPX0.1HO V184TPX0.1HA V184TPX0.1HO V185TPX0.1HA V185TPX0.1HO

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# Wave Direction in Pei-Miao Seas of TPX0 at 2018

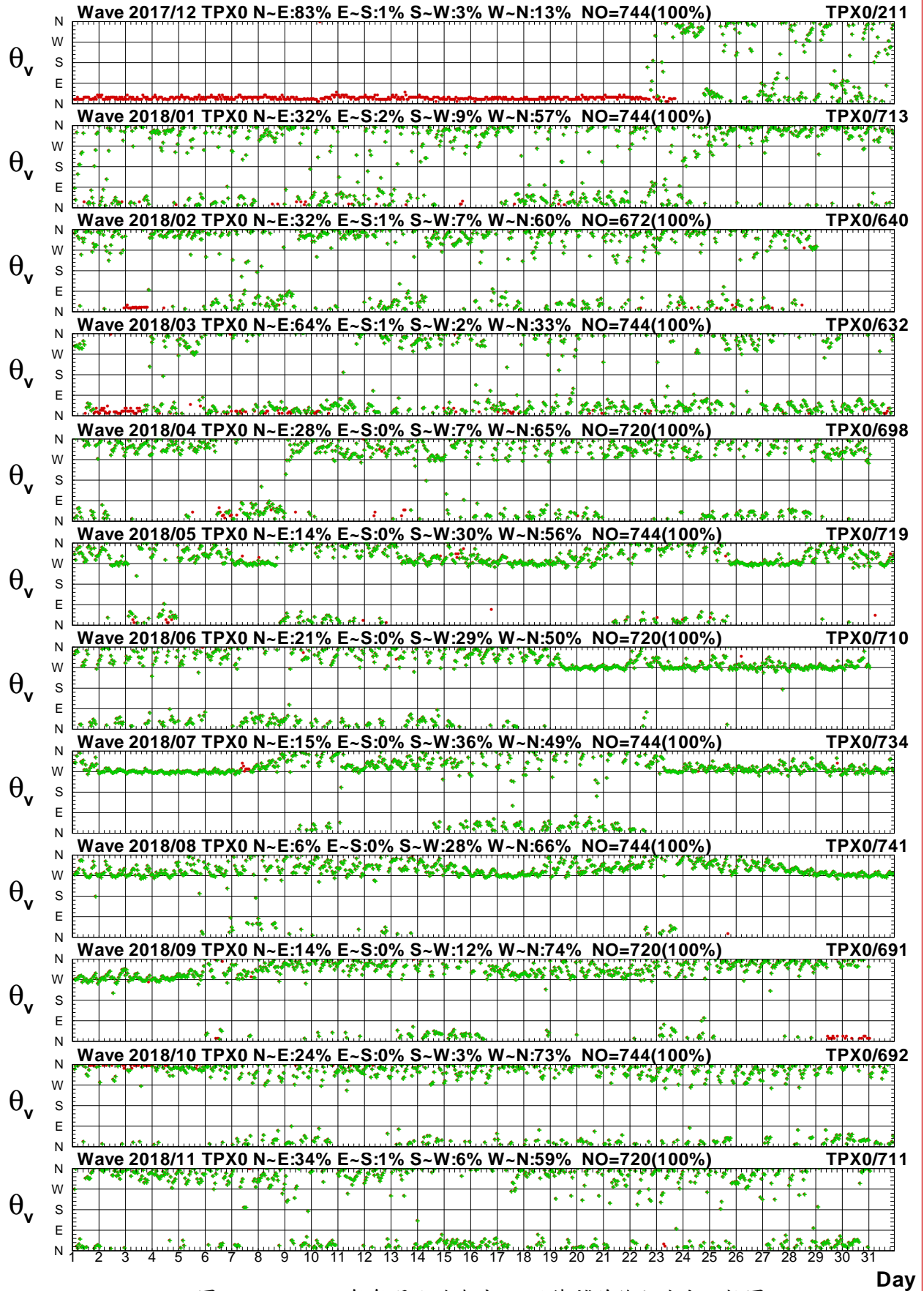


圖2.1.1c 2018年每月北苗海域 X 站修補前後之波向比較圖

V17CTPX0.1HA V17CTPX0.1HO V181TPX0.1HA V181TPX0.1HO V182TPX0.1HA V182TPX0.1HO  
 V183TPX0.1HA V183TPX0.1HO V184TPX0.1HA V184TPX0.1HO V185TPX0.1HA V185TPX0.1HO

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# Wave $H_s$ in Pei-Miao Seas of TPY0 at 2018

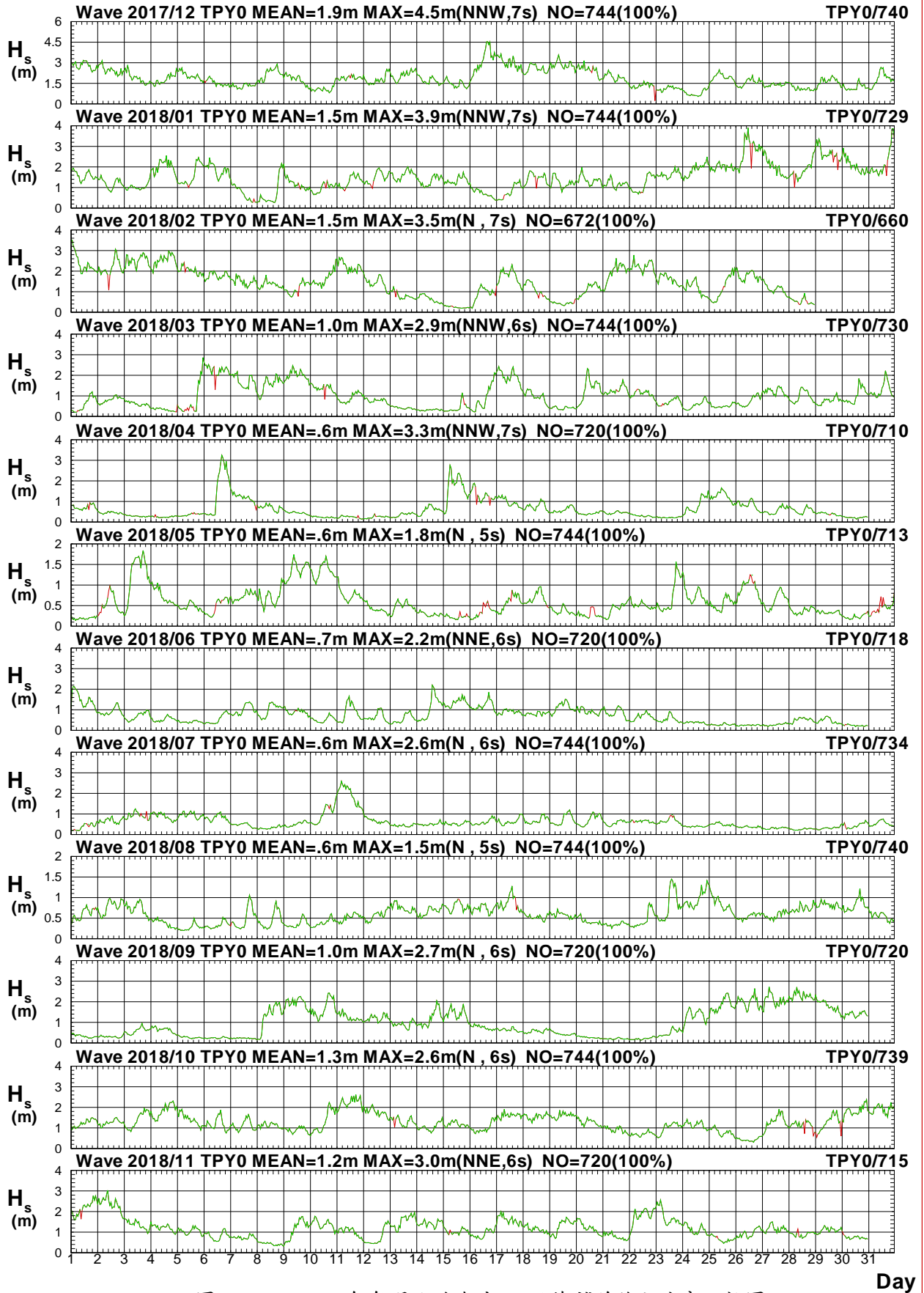


圖2.1.2a 2018年每月北苗海域 Y 站修補前後之波高比較圖

V17CTPY0.1HA V17CTPY0.1H0 V181TPY0.1HA V181TPY0.1H0 V182TPY0.1HA V182TPY0.1H0  
 V183TPY0.1HA V183TPY0.1H0 V184TPY0.1HA V184TPY0.1H0 V185TPY0.1HA V185TPY0.1H0

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# Wave $T_p$ in Pei-Miao Seas of TPY0 at 2018

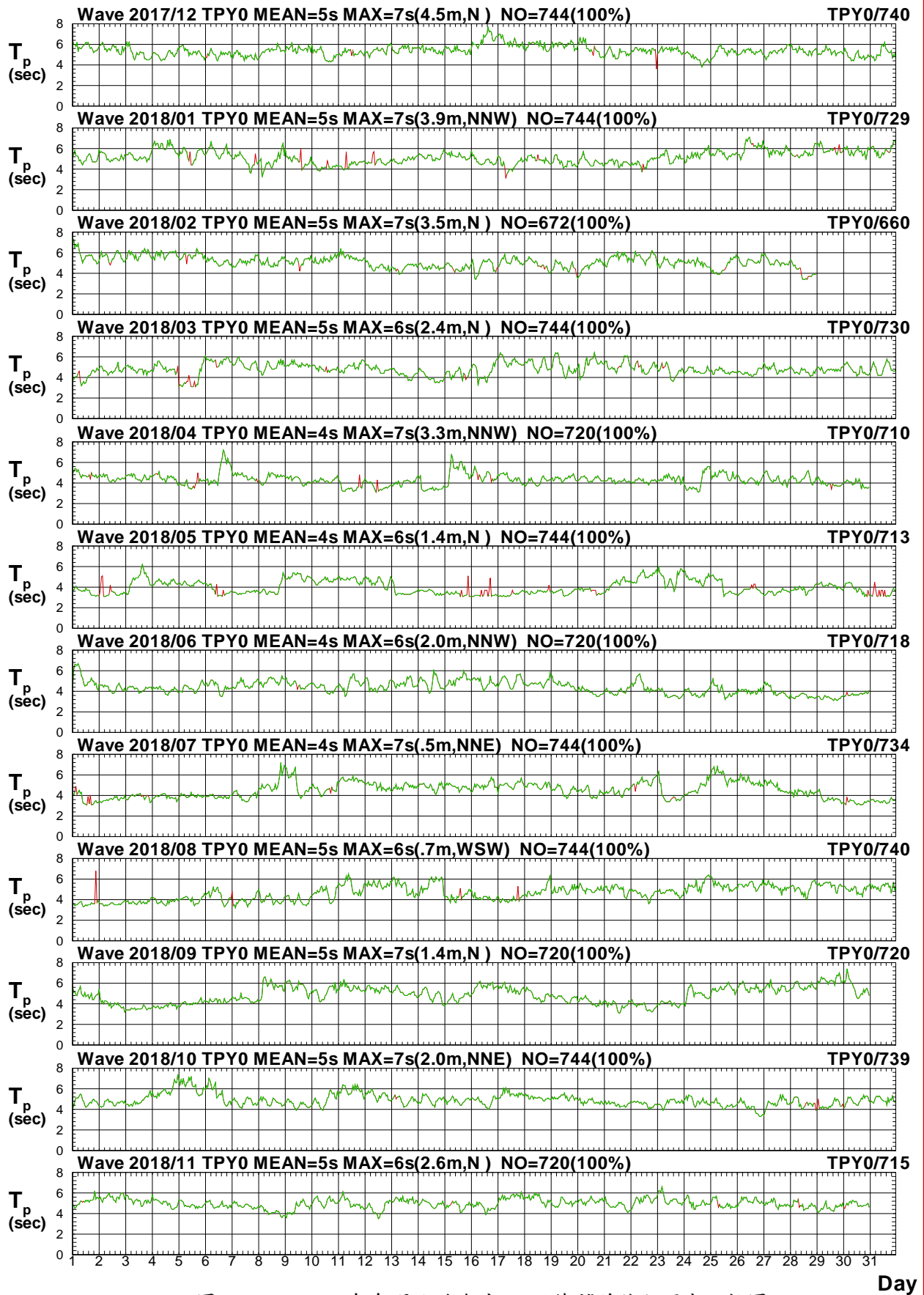


圖2.1.2b 2018年每月北苗海域 Y 站修補前後之週期比較圖

V17CTPY0.1HA V17CTPY0.1HO V181TPY0.1HA V181TPY0.1HO V182TPY0.1HA V182TPY0.1HO  
 V183TPY0.1HA V183TPY0.1HO V184TPY0.1HA V184TPY0.1HO V185TPY0.1HA V185TPY0.1HO

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# Wave Direction in Pei-Miao Seas of TPY0 at 2018

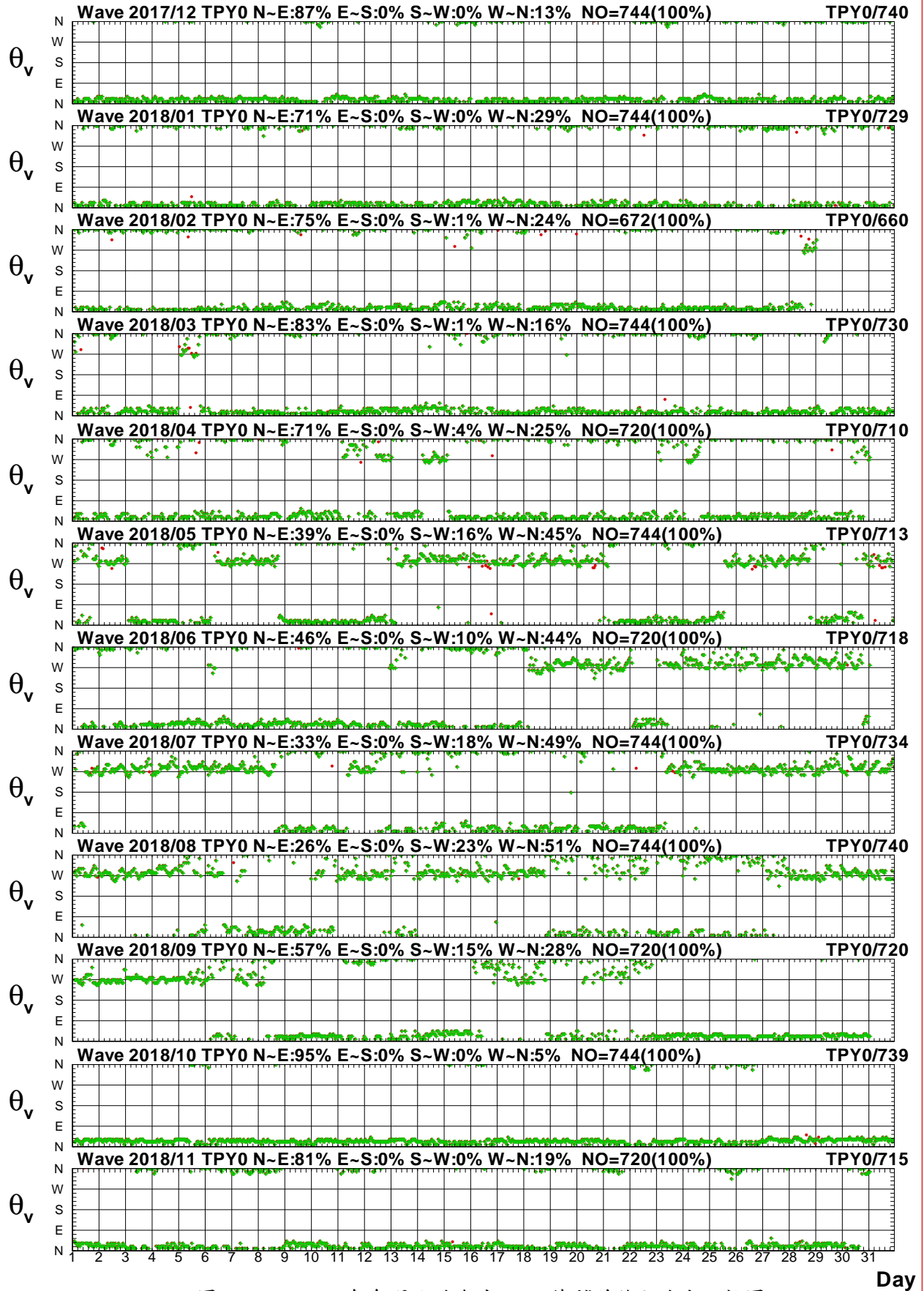


圖2.1.2c 2018年每月北苗海域 Y 站修補前後之波向比較圖

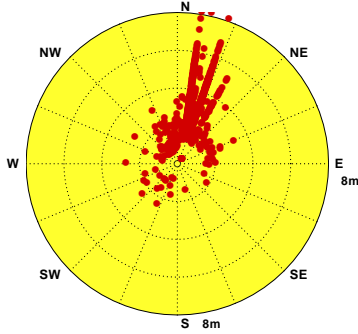
V17CTPY0.1HA V17CTPY0.1HO V181TPY0.1HA V181TPY0.1HO V182TPY0.1HA V182TPY0.1HO  
 V183TPY0.1HA V183TPY0.1HO V184TPY0.1HA V184TPY0.1HO V185TPY0.1HA V185TPY0.1HO

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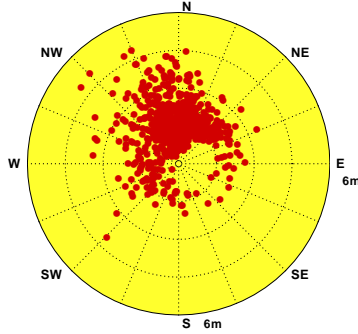


# Distribution of H<sub>s</sub> Vectors

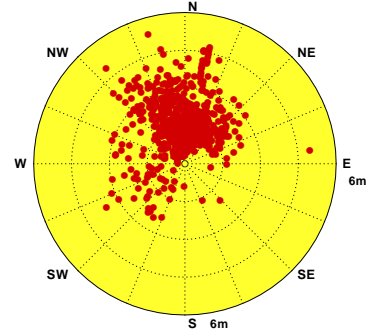
Wave of TPX0 at 2017/12 NO=744(100%)  
Hs : MEAN=2.9m MAX=7.8m(NNE,12s)  
N-E:83% E-S:1% S-W:3% W-N:13%



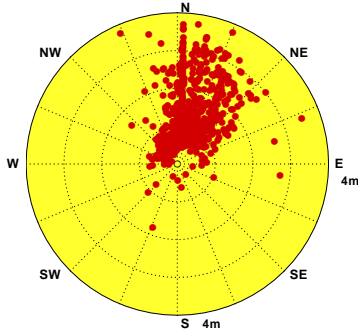
Wave of TPX0 at 2018/01 NO=744(100%)  
Hs : MEAN=1.7m MAX=5.0m(NW,10s)  
N-E:32% E-S:2% S-W:9% W-N:57%



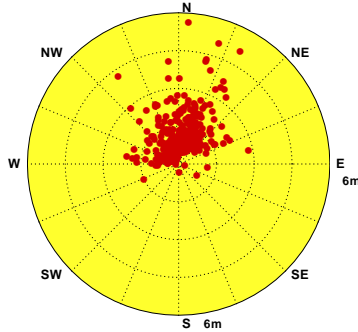
Wave of TPX0 at 2018/02 NO=672(100%)  
Hs : MEAN=1.7m MAX=5.2m(NNW,11s)  
N-E:32% E-S:1% S-W:7% W-N:60%



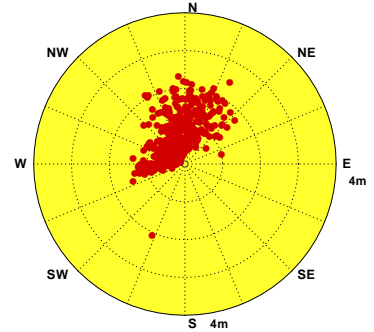
Wave of TPX0 at 2018/03 NO=744(100%)  
Hs : MEAN=1.2m MAX=3.7m(NNW,7s)  
N-E:64% E-S:1% S-W:2% W-N:33%



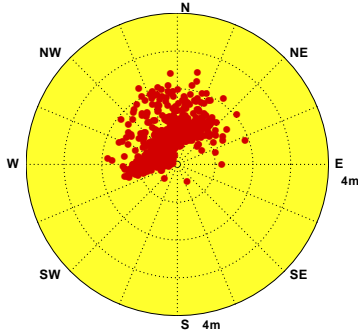
Wave of TPX0 at 2018/04 NO=720(100%)  
Hs : MEAN=.8m MAX=5.4m(N,12s)  
N-E:28% E-S:0% S-W:7% W-N:65%



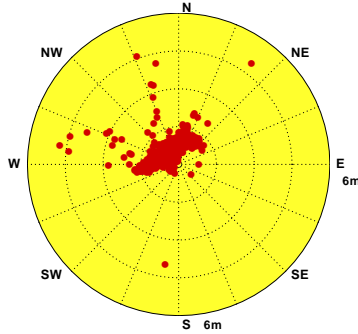
Wave of TPX0 at 2018/05 NO=744(100%)  
Hs : MEAN=.7m MAX=2.3m(NNE,7s)  
N-E:14% E-S:0% S-W:30% W-N:56%



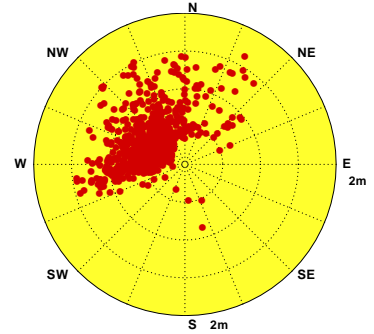
Wave of TPX0 at 2018/06 NO=720(100%)  
Hs : MEAN=.9m MAX=2.3m(N,8s)  
N-E:21% E-S:0% S-W:29% W-N:50%



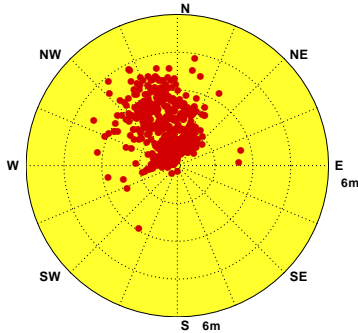
Wave of TPX0 at 2018/07 NO=744(100%)  
Hs : MEAN=.8m MAX=4.9m(W,8s)  
N-E:15% E-S:0% S-W:36% W-N:49%



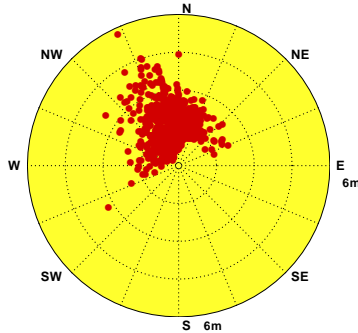
Wave of TPX0 at 2018/08 NO=744(100%)  
Hs : MEAN=.7m MAX=1.5m(NNE,6s)  
N-E:6% E-S:0% S-W:28% W-N:66%



Wave of TPX0 at 2018/09 NO=720(100%)  
Hs : MEAN=1.3m MAX=4.3m(NW,9s)  
N-E:14% E-S:0% S-W:12% W-N:74%



Wave of TPX0 at 2018/10 NO=744(100%)  
Hs : MEAN=1.6m MAX=5.6m(NNW,10s)  
N-E:24% E-S:0% S-W:3% W-N:73%



Wave of TPX0 at 2018/11 NO=720(100%)  
Hs : MEAN=1.4m MAX=4.9m(S,8s)  
N-E:34% E-S:1% S-W:6% W-N:59%

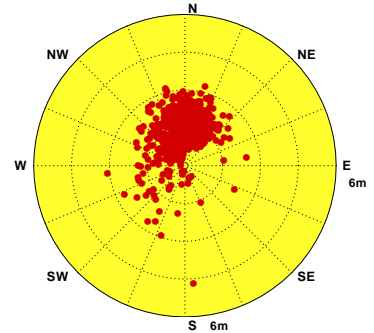


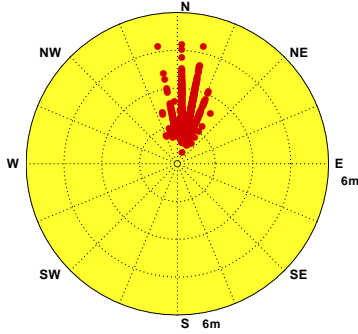
圖2.1.3 2018年北苗海域每月 X 站修補後觀測波高向量分佈圖

V17CTPX0.1HA V181TPX0.1HA V182TPX0.1HA V183TPX0.1HA V184TPX0.1HA V185TPX0.1HA  
V186TPX0.1HA V187TPX0.1HA V188TPX0.1HA V189TPX0.1HA V18ATPX0.1HA V18BTPX0.1HA

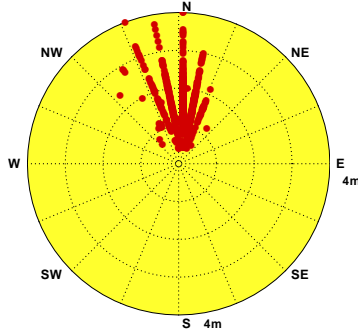
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# Distribution of $H_s$ Vectors

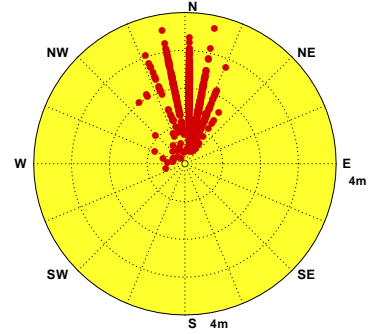
Wave of TPY0 at 2017/12 NO=744(100%)  
 Hs : MEAN=1.9m MAX=4.5m(NNW,7s)  
 N-E:87% E-S:0% S-W:0% W-N:13%



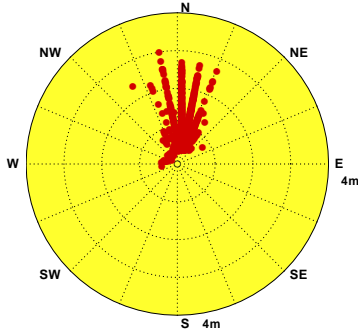
Wave of TPY0 at 2018/01 NO=744(100%)  
 Hs : MEAN=1.5m MAX=3.9m(NNW,7s)  
 N-E:71% E-S:0% S-W:0% W-N:29%



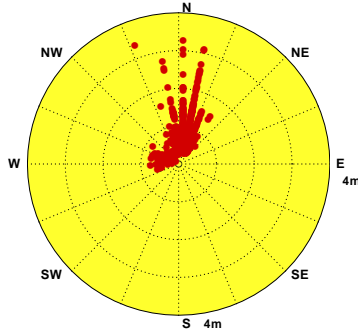
Wave of TPY0 at 2018/02 NO=672(100%)  
 Hs : MEAN=1.5m MAX=3.5m(N, 7s)  
 N-E:75% E-S:0% S-W:1% W-N:24%



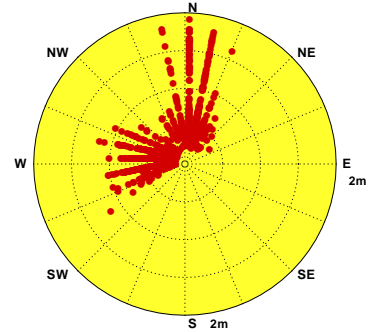
Wave of TPY0 at 2018/03 NO=744(100%)  
 Hs : MEAN=1.0m MAX=2.9m(NNW,6s)  
 N-E:83% E-S:0% S-W:1% W-N:16%



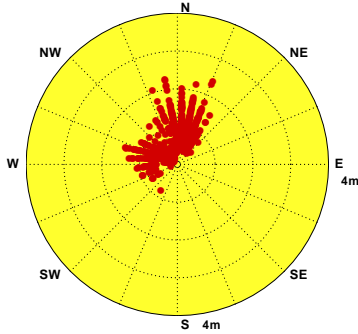
Wave of TPY0 at 2018/04 NO=720(100%)  
 Hs : MEAN=.6m MAX=3.3m(NNW,7s)  
 N-E:71% E-S:0% S-W:4% W-N:25%



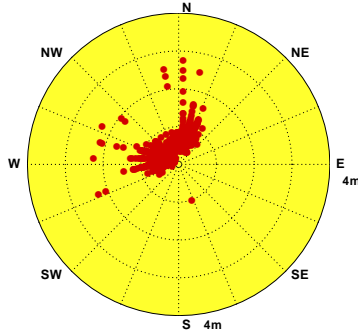
Wave of TPY0 at 2018/05 NO=744(100%)  
 Hs : MEAN=.6m MAX=1.8m(N, 5s)  
 N-E:39% E-S:0% S-W:16% W-N:45%



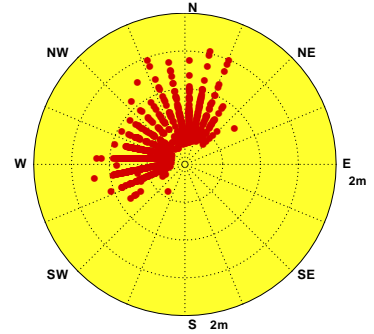
Wave of TPY0 at 2018/06 NO=720(100%)  
 Hs : MEAN=.7m MAX=2.2m(NNE,6s)  
 N-E:46% E-S:0% S-W:10% W-N:44%



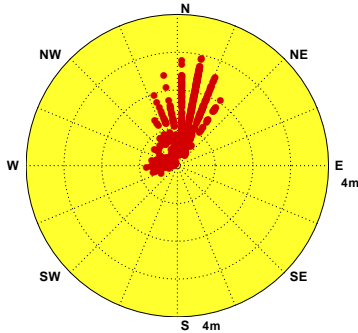
Wave of TPY0 at 2018/07 NO=744(100%)  
 Hs : MEAN=.6m MAX=2.6m(N, 6s)  
 N-E:33% E-S:0% S-W:18% W-N:49%



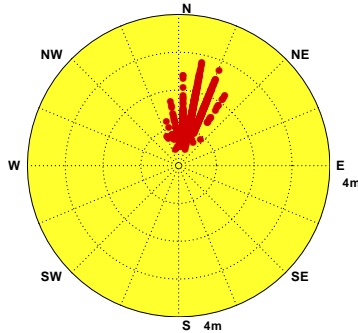
Wave of TPY0 at 2018/08 NO=744(100%)  
 Hs : MEAN=.6m MAX=1.5m(N, 5s)  
 N-E:26% E-S:0% S-W:23% W-N:51%



Wave of TPY0 at 2018/09 NO=720(100%)  
 Hs : MEAN=1.0m MAX=2.7m(N, 6s)  
 N-E:57% E-S:0% S-W:15% W-N:28%



Wave of TPY0 at 2018/10 NO=744(100%)  
 Hs : MEAN=1.3m MAX=2.6m(N, 6s)  
 N-E:95% E-S:0% S-W:0% W-N:5%



Wave of TPY0 at 2018/11 NO=720(100%)  
 Hs : MEAN=1.2m MAX=3.0m(NNE,6s)  
 N-E:81% E-S:0% S-W:0% W-N:19%

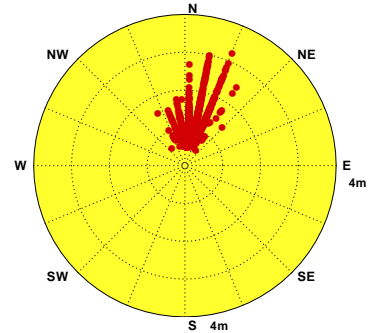


圖2.1.4 2018年北苗海域每月 Y 站修補後觀測波高向量分佈圖

V17CTPY0.1HA V181TPY0.1HA V182TPY0.1HA V183TPY0.1HA V184TPY0.1HA V185TPY0.1HA  
 V186TPY0.1HA V187TPY0.1HA V188TPY0.1HA V189TPY0.1HA V18ATPY0.1HA V18BTPY0.1HA

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## 2.2 2018 年北苗海域各測站修補前 波浪統計量統計表



表2.2.1 2018年北苗海域 X 站修補前示性波高週期及波向重要統計量統計表

觀測 日期 年、月	波高 $H_s$		$H_s$ 最大	$T_p$	$T_p$	小波	小浪	中浪	大浪	$T_p$	$T_p$	$T_p$	$T_p$	波向	波向	波向	波向	波向	主波向
	蒐集 率	平均 (m)	(波高/週期/波向) (m/s/來向)	平均	最大	<0.5m (%)	~1.5m (%)	~3m (%)	>3m (%)	<6s (%)	6~8s (%)	8~10s (%)	>10s (%)	蒐集 率	N~E (%)	E~S (%)	S~W (%)	W~N (%)	(百分比) 來向/%
2017/12	28%	1.42	3.3/10.0/NNE	7.3	37.5	4.7	57.3	36.0	1.9	15.2	63.0	19.4	2.4	28%	39.8	5.2	10.0	45.0	NNW/18%
2018/01	96%	1.70	5.0/ 9.6/NW	7.4	10.3	3.2	41.8	46.8	8.1	11.2	55.3	31.4	2.1	96%	30.7	2.0	9.3	58.1	NNW/26%
2018/02	95%	1.66	5.2/10.7/NNW	7.4	10.7	6.9	42.8	41.9	8.4	16.4	46.6	36.1	.9	95%	28.4	.8	7.0	63.8	NNW/27%
2018/03	85%	1.08	3.7/ 7.1/NNW	7.0	11.4	23.3	52.2	23.4	1.1	35.4	30.1	29.9	4.6	85%	58.7	1.1	2.8	37.3	NNE/27%
2018/04	97%	.75	4.1/ 8.0/NW	6.5	12.6	46.1	42.4	10.5	1.0	49.9	26.5	15.2	8.5	97%	26.4	.4	6.7	66.5	NW /20%
2018/05	97%	.73	2.3/ 6.8/NNE	5.7	11.3	38.2	54.4	7.4	.0	59.4	23.4	14.2	3.1	97%	12.4	.0	30.6	57.0	W /26%
2018/06	99%	.85	2.3/ 7.9/N	5.7	10.1	21.8	68.6	9.6	.0	62.1	26.5	11.3	.1	99%	21.4	.3	29.0	49.3	W /24%
2018/07	99%	.82	4.9/ 8.4/W	6.1	12.8	28.5	63.1	6.8	1.6	53.4	26.3	17.6	2.7	99%	14.7	.3	36.1	48.9	W /33%
2018/08	100%	.70	1.5/ 5.9/NNE	6.8	14.8	24.0	75.4	.5	.0	39.3	34.5	17.7	8.5	100%	5.4	.3	28.6	65.7	W /33%
2018/09	96%	1.25	4.3/ 9.0/NW	6.9	15.5	30.5	37.0	24.9	7.5	37.6	31.7	25.2	5.5	96%	11.9	.1	12.7	75.3	NNW/21%
2018/10	93%	1.53	5.6/10.2/NNW	7.1	13.0	1.2	55.3	39.0	4.5	22.5	56.1	13.0	8.4	93%	26.2	.0	3.3	70.5	NNW/28%
2018/11	99%	1.36	4.9/ 8.0/S	6.7	9.5	2.4	59.5	37.7	.4	25.5	62.5	12.0	.0	99%	34.2	.7	6.0	59.1	N /27%
2018/冬	72%	1.64	5.2/10.7/NNW	7.4	37.5	4.9	44.3	43.4	7.4	13.9	52.7	31.7	1.7	72%	31.0	1.9	8.4	58.6	NNW/25%
2018/春	93%	.84	4.1/ 8.0/NW	6.4	12.6	36.3	49.6	13.4	.7	48.8	26.5	19.4	5.4	93%	31.4	.5	13.9	54.2	N /16%
2018/夏	99%	.79	4.9/ 8.4/W	6.2	14.8	24.8	69.1	5.6	.5	51.4	29.2	15.6	3.8	99%	13.7	.3	31.3	54.7	W /30%
2018/秋	96%	1.38	5.6/10.2/NNW	6.9	15.5	11.3	50.7	33.9	4.1	28.5	50.2	16.7	4.6	96%	24.2	.3	7.4	68.2	NNW/23%
2018/年	90%	1.13	5.6/10.2/NNW	6.7	37.5	20.3	54.2	22.6	2.9	37.2	38.7	20.1	4.0	90%	24.5	.7	15.9	58.9	NNW/17%

2-2-1

表2.2.2 2018年北苗海域 Y 站修補前示性波高週期及波向重要統計量統計表

觀測 日期 年、月	波高 蒐集 率	$H_s$ 平均 (m)	$H_s$ 最大 (波高/週期/波向) (m/s/來向)	$T_p$ 平均 (s)	$T_p$ 最大 (s)	小波 <0.5m (%)	小浪 ~1.5m (%)	中浪 ~3m (%)	大浪 >3m (%)	$T_p$ <6s (%)	$T_p$ 6~8s (%)	$T_p$ 8~10s (%)	$T_p$ >10s (%)	波向 蒐集 率	波向 N~E (%)	波向 E~S (%)	波向 S~W (%)	波向 W~N (%)	主波向 (百分比) 來向/%
2017/12	100%	1.86	4.5/ 7.2/NNW	5.4	7.7	.0	33.5	60.9	5.5	87.0	13.0	.0	.0	100%	87.0	.0	.0	13.0	N /79%
2018/01	98%	1.51	3.9/ 7.1/NNW	5.1	7.1	4.8	47.5	45.3	2.5	88.9	11.1	.0	.0	98%	71.3	.0	.0	28.7	N /67%
2018/02	98%	1.48	3.5/ 7.3/N	5.1	7.3	10.0	41.5	47.7	.8	93.0	7.0	.0	.0	98%	77.0	.0	.6	22.4	N /65%
2018/03	98%	.98	2.9/ 6.0/NNW	4.8	6.4	23.7	57.0	19.3	.0	97.3	2.7	.0	.0	98%	83.4	.0	1.0	15.6	N /66%
2018/04	99%	.63	3.3/ 7.2/NNW	4.3	7.2	55.6	39.3	4.8	.3	98.5	1.5	.0	.0	99%	72.1	.0	3.8	24.1	N /52%
2018/05	96%	.59	1.8/ 5.3/N	4.0	6.2	48.7	47.5	3.8	.0	99.7	.3	.0	.0	96%	40.7	.0	14.4	44.9	N /31%
2018/06	100%	.73	2.2/ 6.1/NNE	4.4	6.7	35.5	61.0	3.5	.0	98.7	1.3	.0	.0	100%	46.2	.0	9.5	44.3	N /31%
2018/07	99%	.62	2.6/ 5.8/N	4.5	7.2	39.2	58.2	2.6	.0	96.5	3.5	.0	.0	99%	33.2	.1	17.8	48.8	W /27%
2018/08	100%	.60	1.5/ 4.9/N	4.7	6.5	35.5	64.5	.0	.0	96.6	3.4	.0	.0	100%	26.5	.0	23.1	50.4	W /27%
2018/09	100%	.99	2.7/ 6.4/N	4.9	7.4	34.2	39.6	26.3	.0	91.1	8.9	.0	.0	100%	56.8	.0	15.4	27.8	N /41%
2018/10	99%	1.28	2.6/ 6.4/N	4.9	7.4	2.4	67.1	30.4	.0	94.2	5.8	.0	.0	99%	95.1	.0	.0	4.9	N /63%
2018/11	99%	1.18	3.0/ 6.0/NNE	5.0	6.6	4.8	73.4	21.7	.1	98.3	1.7	.0	.0	99%	81.0	.0	.0	19.0	N /60%
2018/冬	99%	1.62	4.5/ 7.2/NNW	5.2	7.7	4.7	40.8	51.5	3.0	89.5	10.5	.0	.0	99%	78.5	.0	.2	21.3	N /71%
2018/春	98%	.74	3.3/ 7.2/NNW	4.4	7.2	42.5	48.0	9.4	.1	98.5	1.5	.0	.0	98%	65.5	.0	6.4	28.1	N /50%
2018/夏	99%	.65	2.6/ 5.8/N	4.5	7.2	36.8	61.2	2.0	.0	97.3	2.7	.0	.0	99%	35.2	.0	16.9	47.9	N /24%
2018/秋	100%	1.15	3.0/ 6.0/NNE	4.9	7.4	13.7	60.1	26.2	.0	94.5	5.5	.0	.0	100%	77.8	.0	5.1	17.1	N /55%
2018/年	99%	1.04	4.5/ 7.2/NNW	4.8	7.7	24.5	52.6	22.1	.8	95.0	5.0	.0	.0	99%	64.1	.0	7.2	28.7	N /50%

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### 2.3 2018 年北苗海域**主要測站 1**(修補後)與 **其他測站**(修補前)波浪歷線比較圖





# Wave $H_s$ in Tai-Pei Harbor of TPX0 at 2018

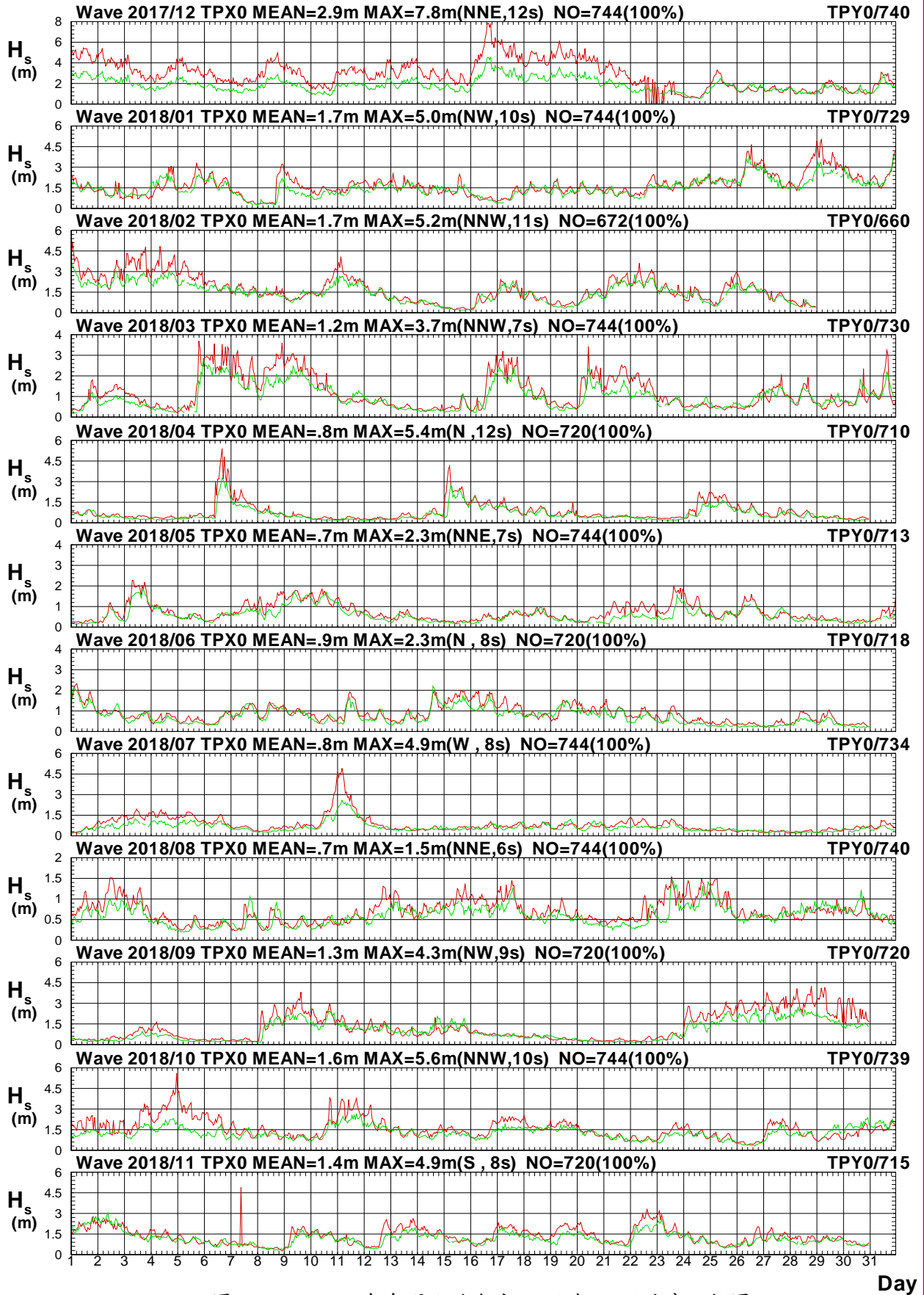


圖2.3.1a 2018年每月北苗海域 X 站與 Y 站波高比較圖

V17CTPX0.1HA V17CTPY0.1H0 V181TPX0.1HA V181TPY0.1H0 V182TPX0.1HA V182TPY0.1H0  
 V183TPX0.1HA V183TPY0.1H0 V184TPX0.1HA V184TPY0.1H0 V185TPX0.1HA V185TPY0.1H0

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# Wave $T_p$ in Tai-Pei Harbor of TPX0 at 2018

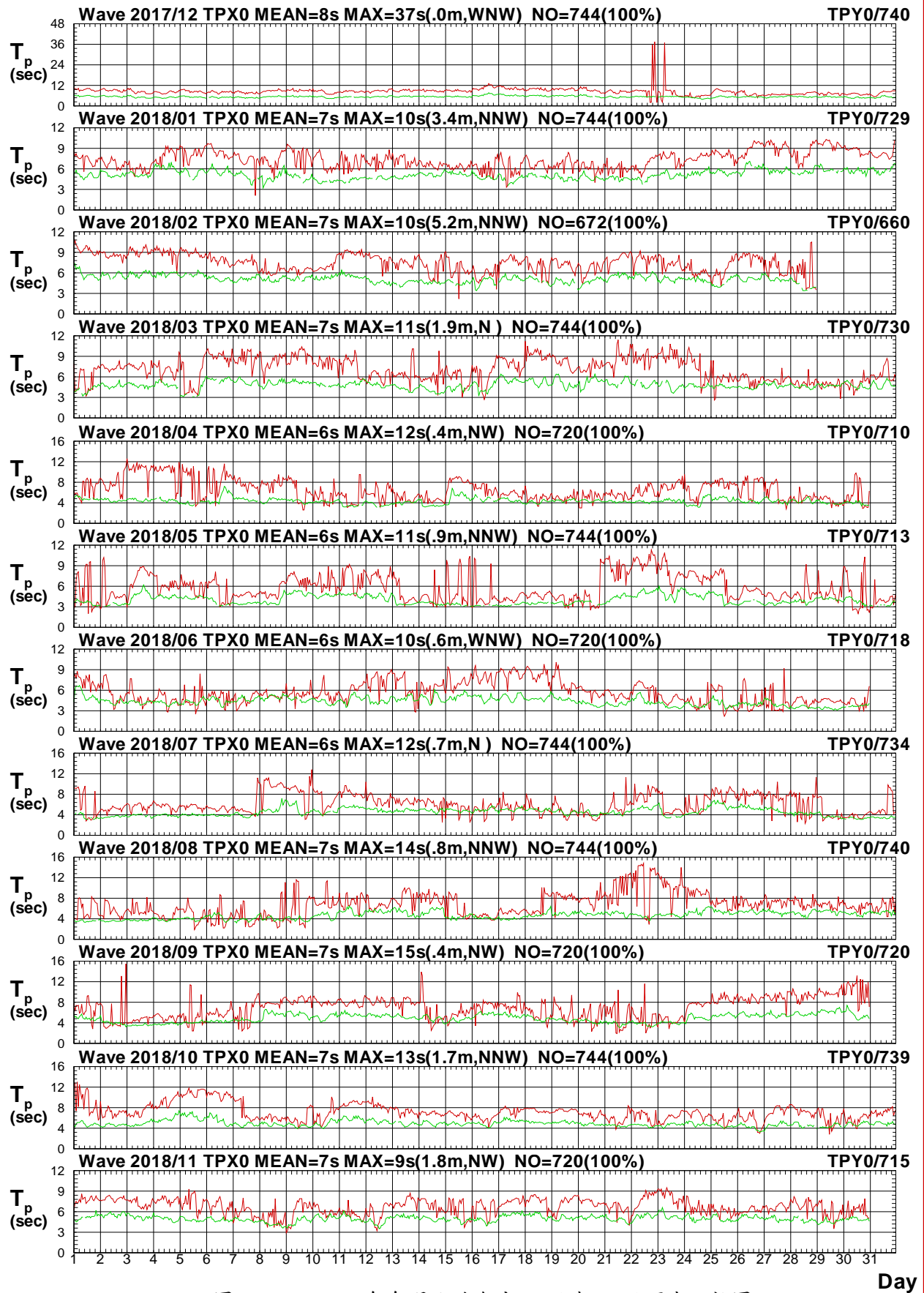


圖2.3.1b 2018年每月北苗海域 X 站與 Y 站週期比較圖

V17CTPX0.1HA V17CTPY0.1H0 V181TPX0.1HA V181TPY0.1H0 V182TPX0.1HA V182TPY0.1H0  
 V183TPX0.1HA V183TPY0.1H0 V184TPX0.1HA V184TPY0.1H0 V185TPX0.1HA V185TPY0.1H0

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# Wave Direction in Tai-Pei Harbor of TPX0 at 2018

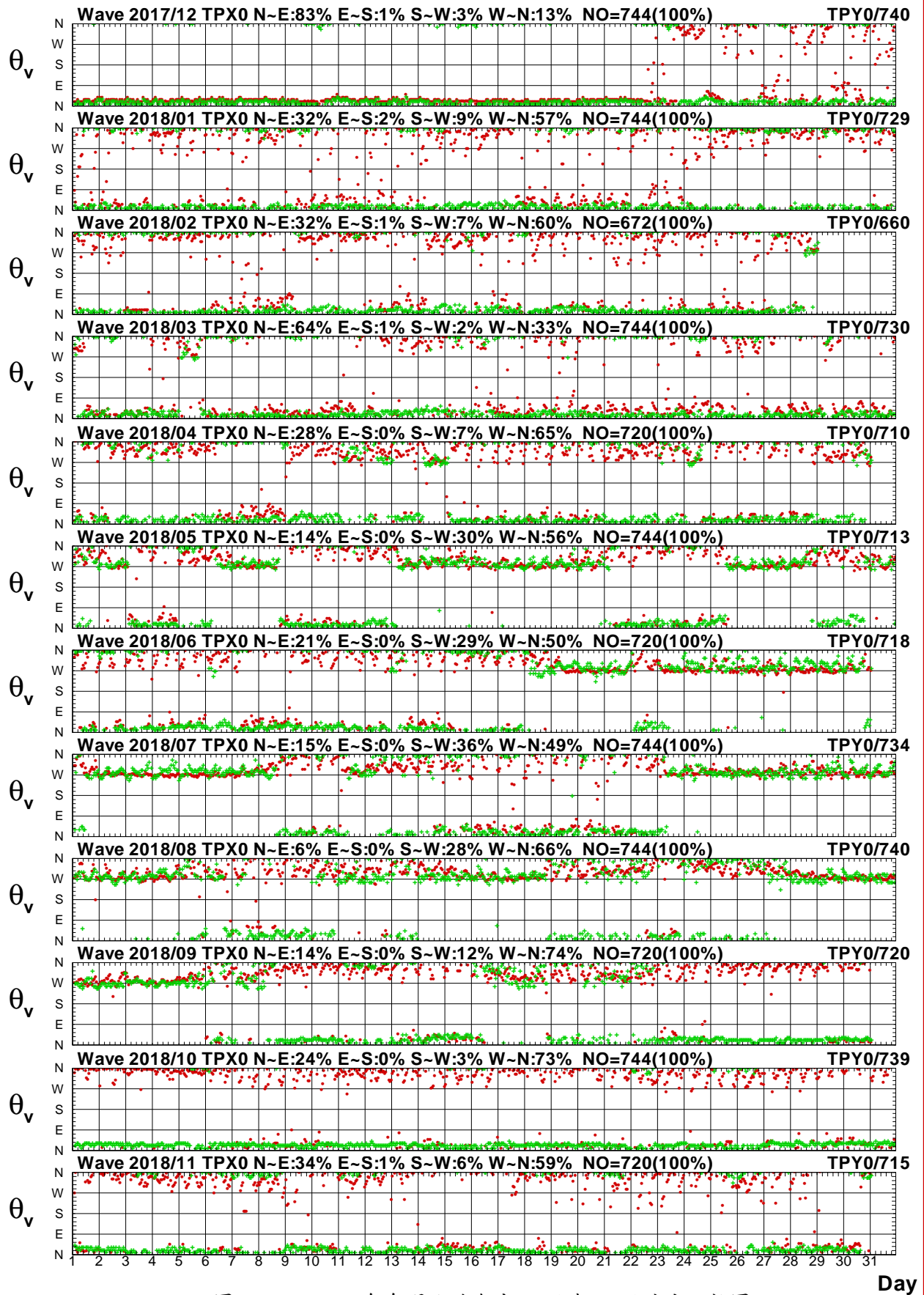


圖2.3.1c 2018年每月北苗海域 X 站與 Y 站波向比較圖

V17CTPX0.1HA V17CTPY0.1H0 V181TPX0.1HA V181TPY0.1H0 V182TPX0.1HA V182TPY0.1H0  
 V183TPX0.1HA V183TPY0.1H0 V184TPX0.1HA V184TPY0.1H0 V185TPX0.1HA V185TPY0.1H0

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# Wave $H_s$ in Tai-Pei Harbor of TPX0 at 2018

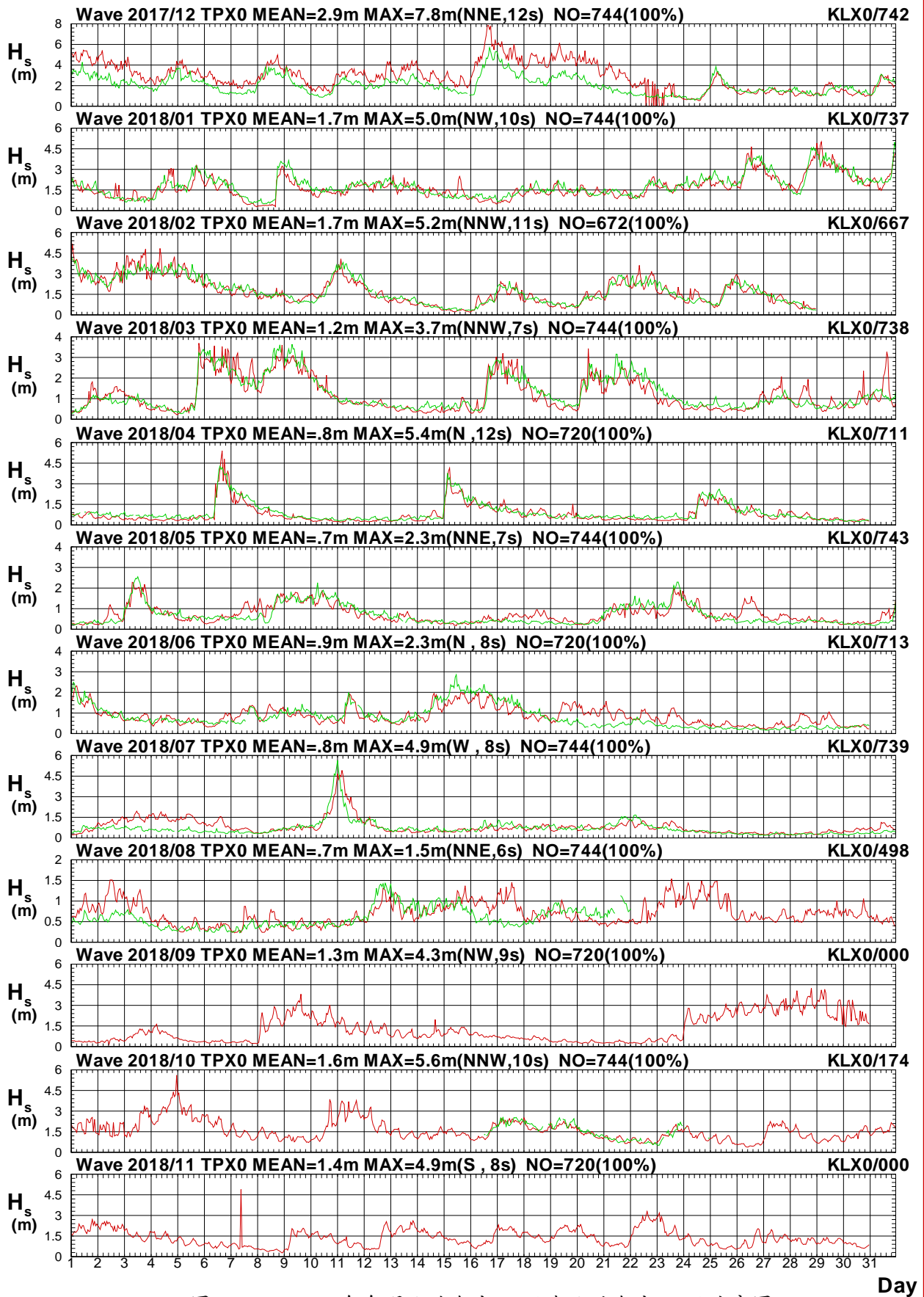


圖2.3.2a 2018年每月北苗海域 X 站與北端海域 X 站波高圖

V17CTPX0.1HA V17CKLX0.1H0 V181TPX0.1HA V181KLX0.1H0 V182TPX0.1HA V182KLX0.1H0  
 V183TPX0.1HA V183KLX0.1H0 V184TPX0.1HA V184KLX0.1H0 V185TPX0.1HA V185KLX0.1H0

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# Wave $T_p$ in Tai-Pei Harbor of TPX0 at 2018

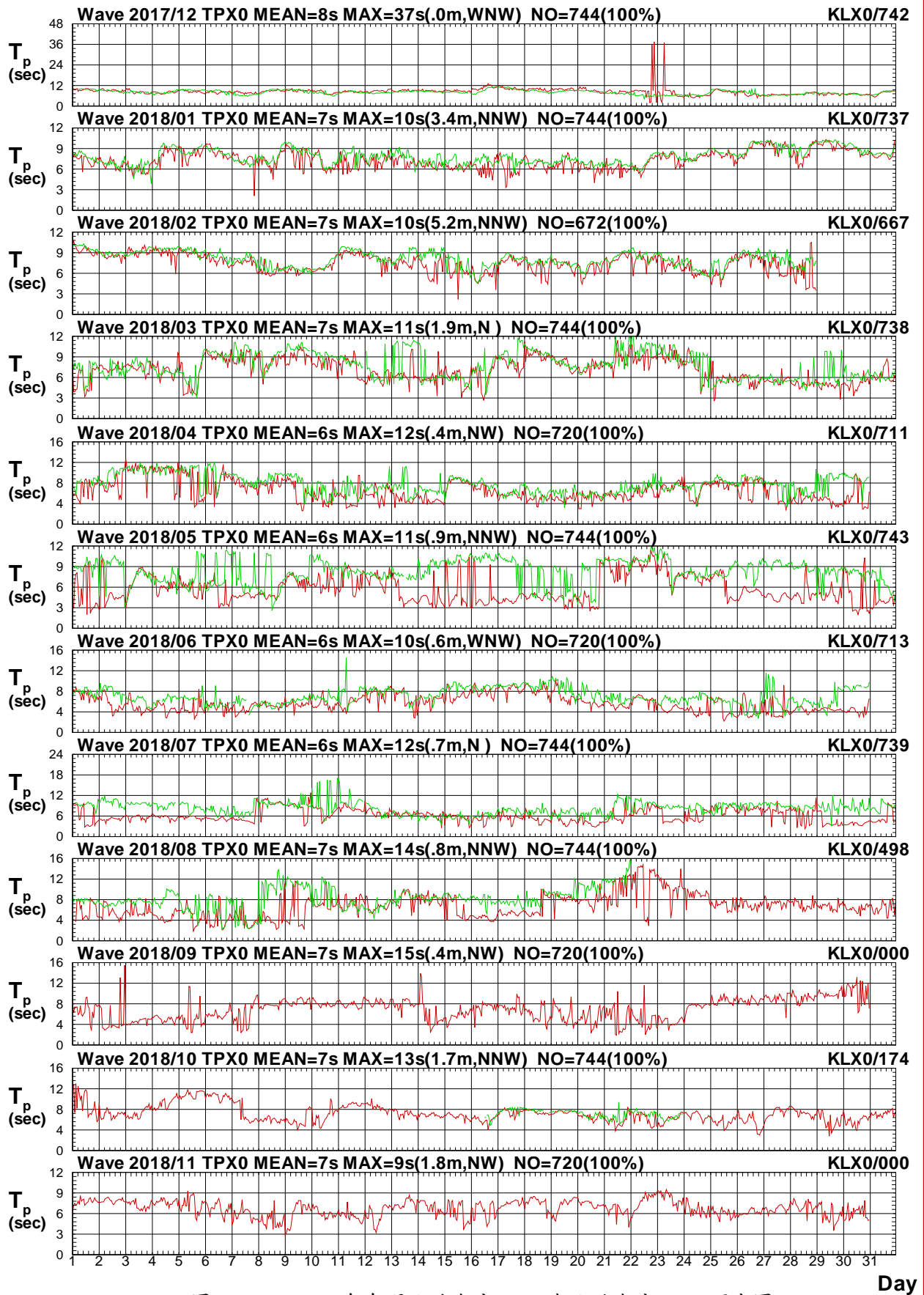


圖2.3.2b 2018年每月北苗海域 X 站與北端海域 X 站週期圖

V17CTPX0.1HA V17CKLX0.1H0 V181TPX0.1HA V181KLX0.1H0 V182TPX0.1HA V182KLX0.1H0  
 V183TPX0.1HA V183KLX0.1H0 V184TPX0.1HA V184KLX0.1H0 V185TPX0.1HA V185KLX0.1H0

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# Wave Direction in Tai-Pei Harbor of TPX0 at 2018

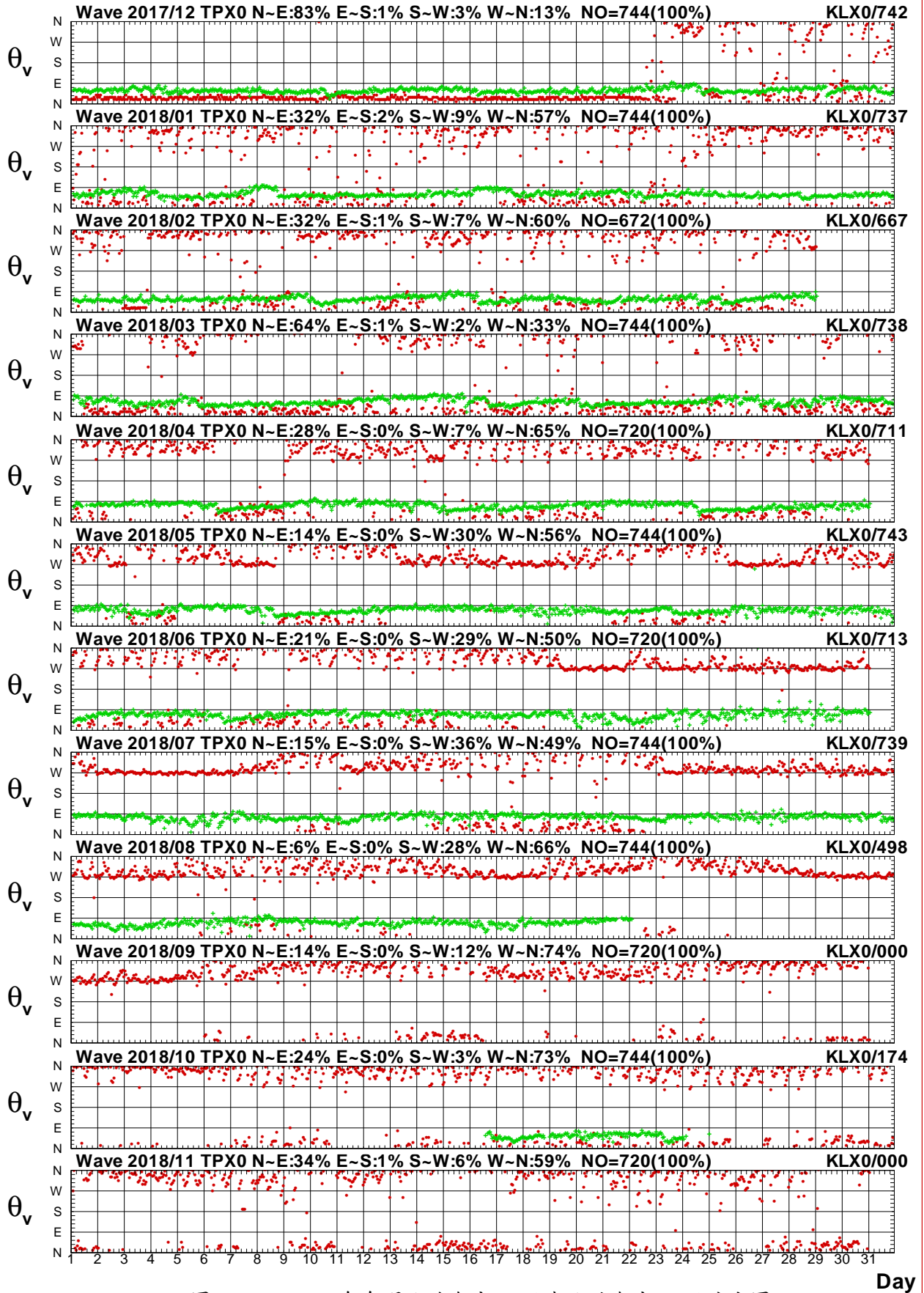


圖2.3.2c 2018年每月北苗海域 X 站與北端海域 X 站波向圖

V17CTPX0.1HA V17CKLX0.1H0 V181TPX0.1HA V181KLX0.1H0 V182TPX0.1HA V182KLX0.1H0  
 V183TPX0.1HA V183KLX0.1H0 V184TPX0.1HA V184KLX0.1H0 V185TPX0.1HA V185KLX0.1H0

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# Wave $H_s$ in Tai-Pei Harbor of TPX0 at 2018

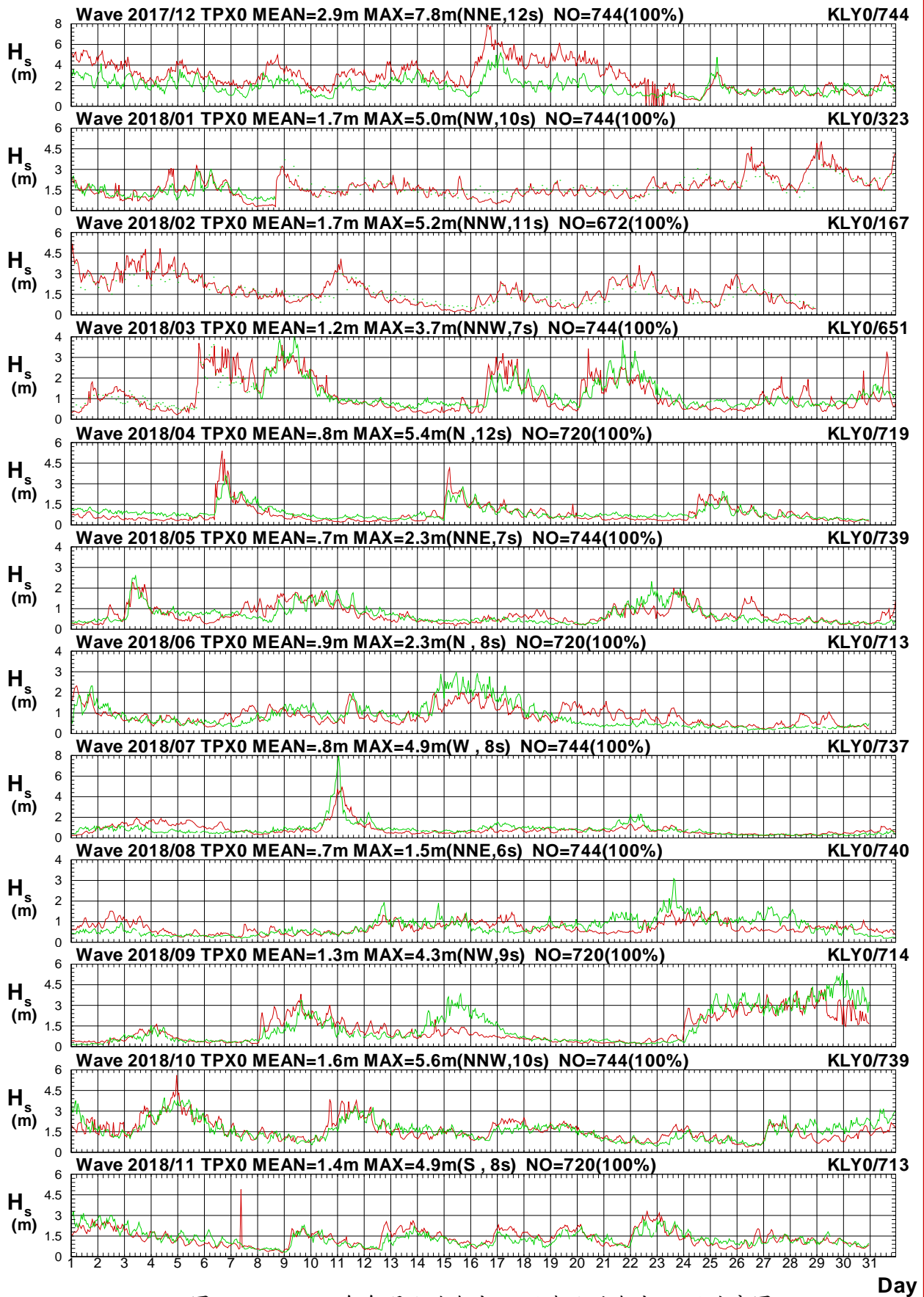


圖2.3.3a 2018年每月北苗海域 X 站與北端海域 Y 站波高圖

V17CTPX0.1HA V17CKLY0.1H0 V181TPX0.1HA V181KLY0.1H0 V182TPX0.1HA V182KLY0.1H0  
 V183TPX0.1HA V183KLY0.1H0 V184TPX0.1HA V184KLY0.1H0 V185TPX0.1HA V185KLY0.1H0

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# Wave $T_p$ in Tai-Pei Harbor of TPX0 at 2018

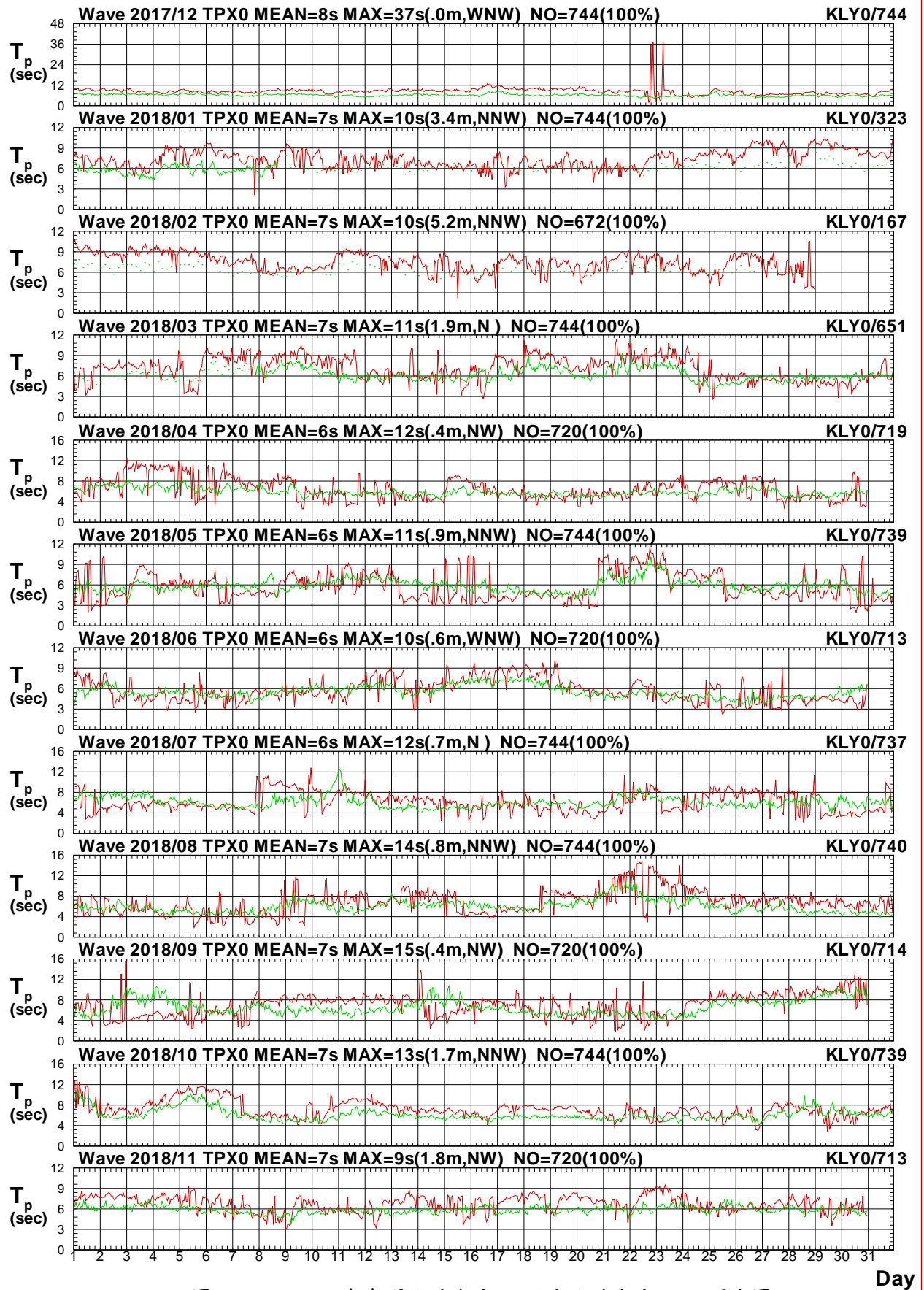


圖2.3.3b 2018年每月北苗海域 X 站與北端海域 Y 站週期圖

V17CTPX0.1HA V17CKLY0.1H0 V181TPX0.1HA V181KLY0.1H0 V182TPX0.1HA V182KLY0.1H0  
 V183TPX0.1HA V183KLY0.1H0 V184TPX0.1HA V184KLY0.1H0 V185TPX0.1HA V185KLY0.1H0

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# Wave Direction in Tai-Pei Harbor of TPX0 at 2018

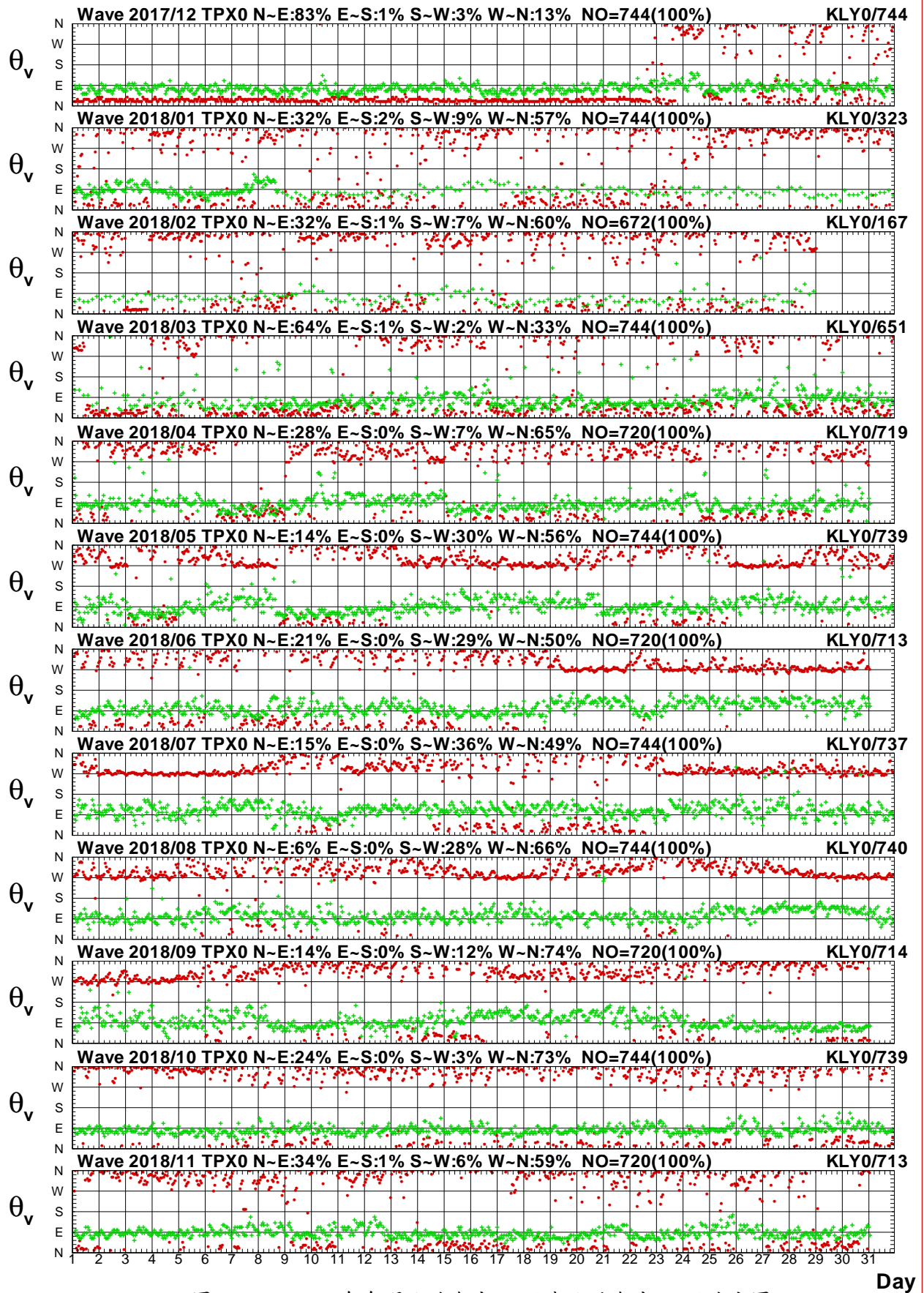


圖2.3.3c 2018年每月北苗海域 X 站與北端海域 Y 站波向圖

V17CTPX0.1HA V17CKLY0.1H0 V181TPX0.1HA V181KLY0.1H0 V182TPX0.1HA V182KLY0.1H0  
 V183TPX0.1HA V183KLY0.1H0 V184TPX0.1HA V184KLY0.1H0 V185TPX0.1HA V185KLY0.1H0

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# Wave $H_s$ in Tai-Pei Harbor of TPX0 at 2018

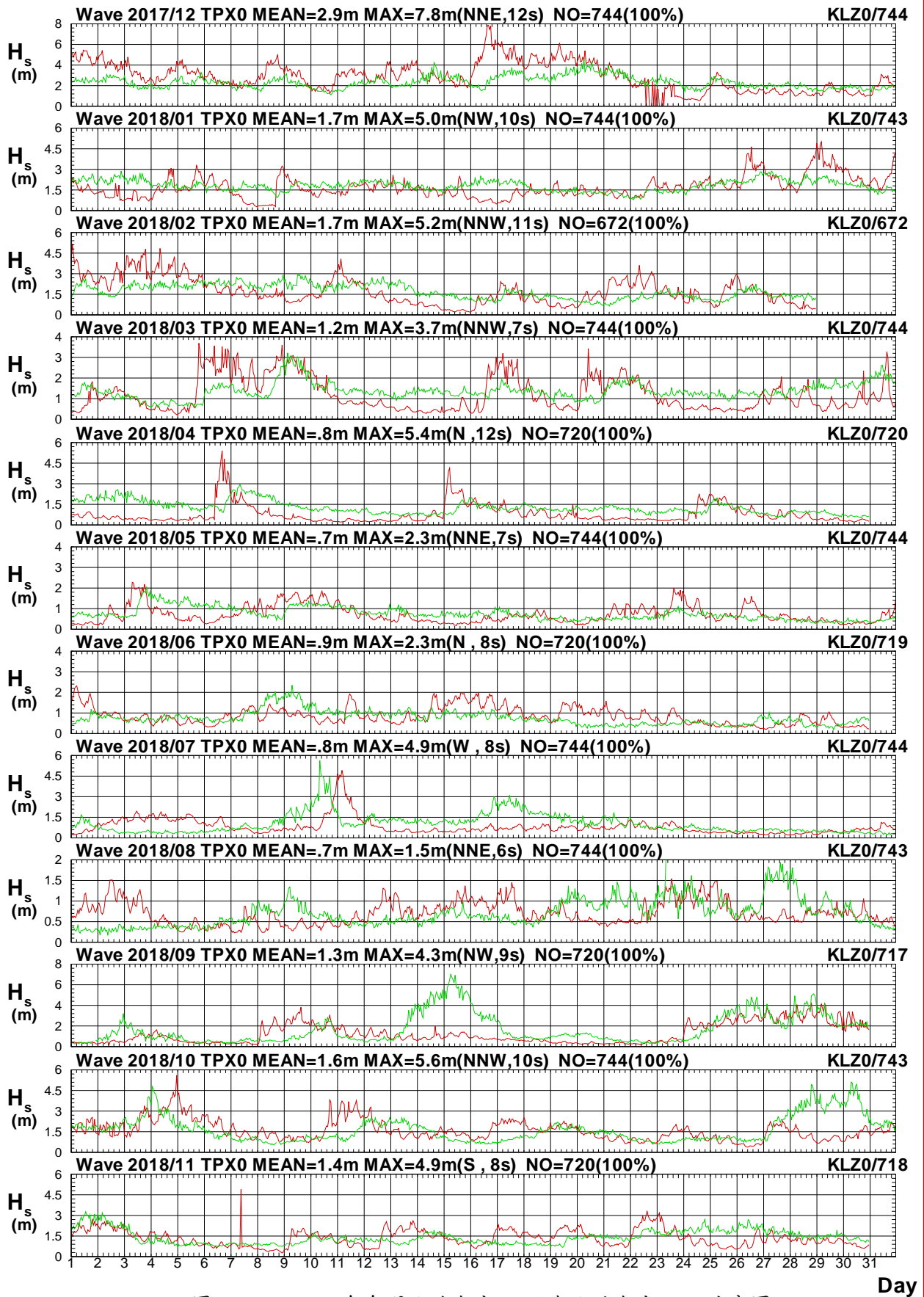


圖2.3.4a 2018年每月北苗海域 X 站與北端海域 Z 站波高圖

V17CTPX0.1HA V17CKLZ0.1H0 V181TPX0.1HA V181KLZ0.1H0 V182TPX0.1HA V182KLZ0.1H0  
 V183TPX0.1HA V183KLZ0.1H0 V184TPX0.1HA V184KLZ0.1H0 V185TPX0.1HA V185KLZ0.1H0

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# Wave $T_p$ in Tai-Pei Harbor of TPX0 at 2018

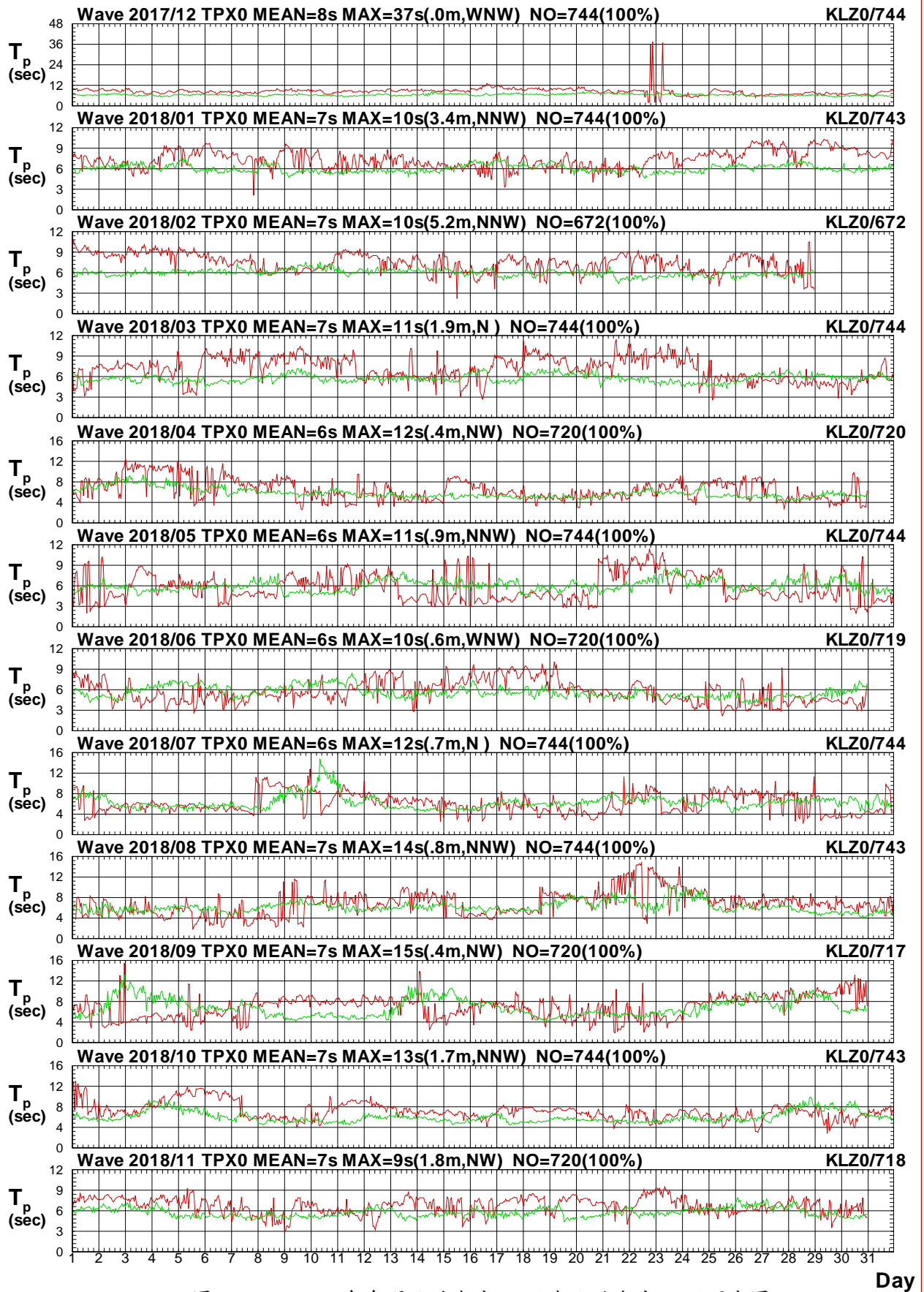


圖2.3.4b 2018年每月北苗海域 X 站與北端海域 Z 站週期圖

V17CTPX0.1HA V17CKLZ0.1H0 V181TPX0.1HA V181KLZ0.1H0 V182TPX0.1HA V182KLZ0.1H0  
 V183TPX0.1HA V183KLZ0.1H0 V184TPX0.1HA V184KLZ0.1H0 V185TPX0.1HA V185KLZ0.1H0

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# Wave Direction in Tai-Pei Harbor of TPX0 at 2018

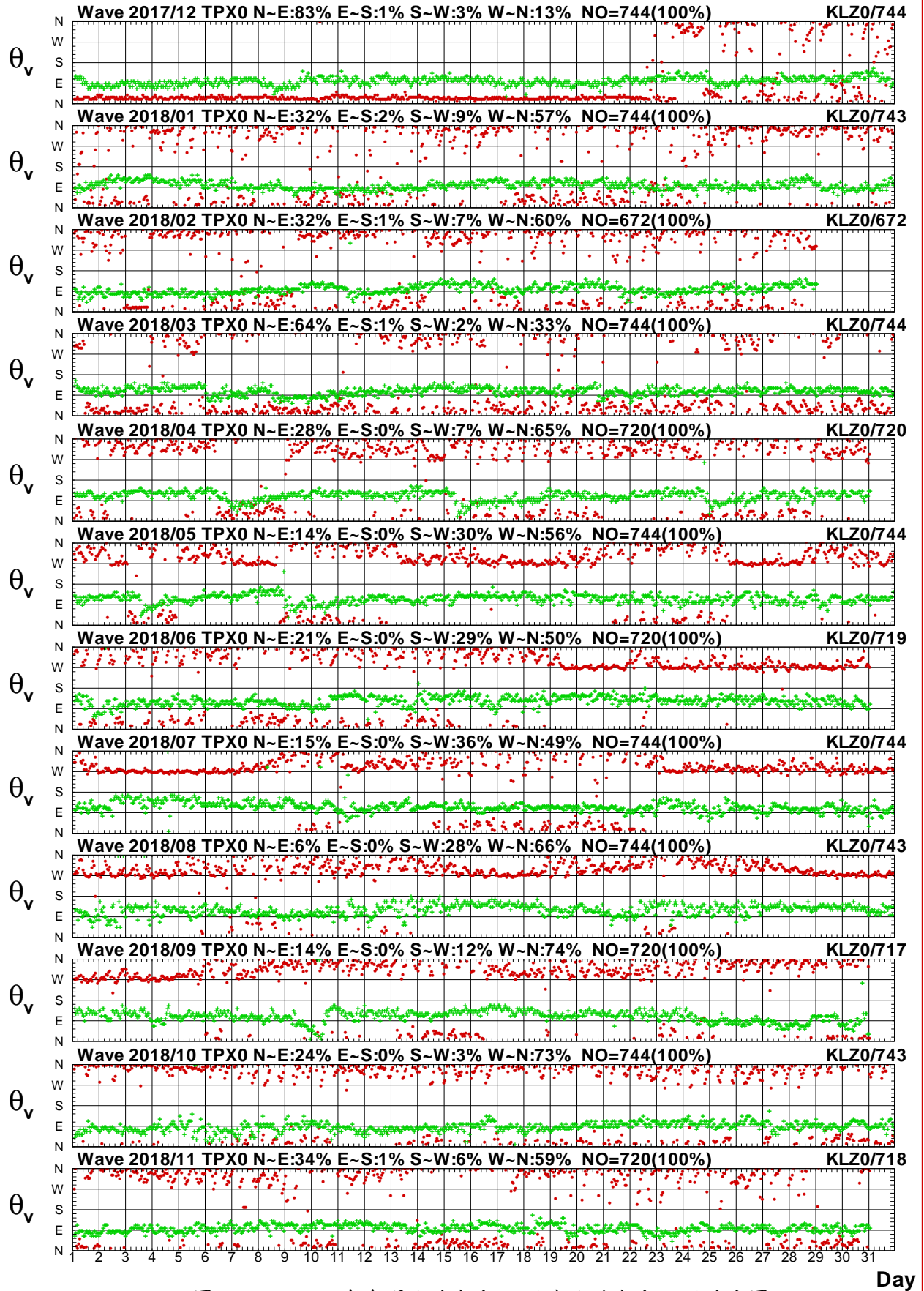


圖2.3.4c 2018年每月北苗海域 X 站與北端海域 Z 站波向圖

V17CTPX0.1HA V17CKLZ0.1H0 V181TPX0.1HA V181KLZ0.1H0 V182TPX0.1HA V182KLZ0.1H0  
 V183TPX0.1HA V183KLZ0.1H0 V184TPX0.1HA V184KLZ0.1H0 V185TPX0.1HA V185KLZ0.1H0

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# Wave $H_s$ in Tai-Pei Harbor of TPX0 at 2018

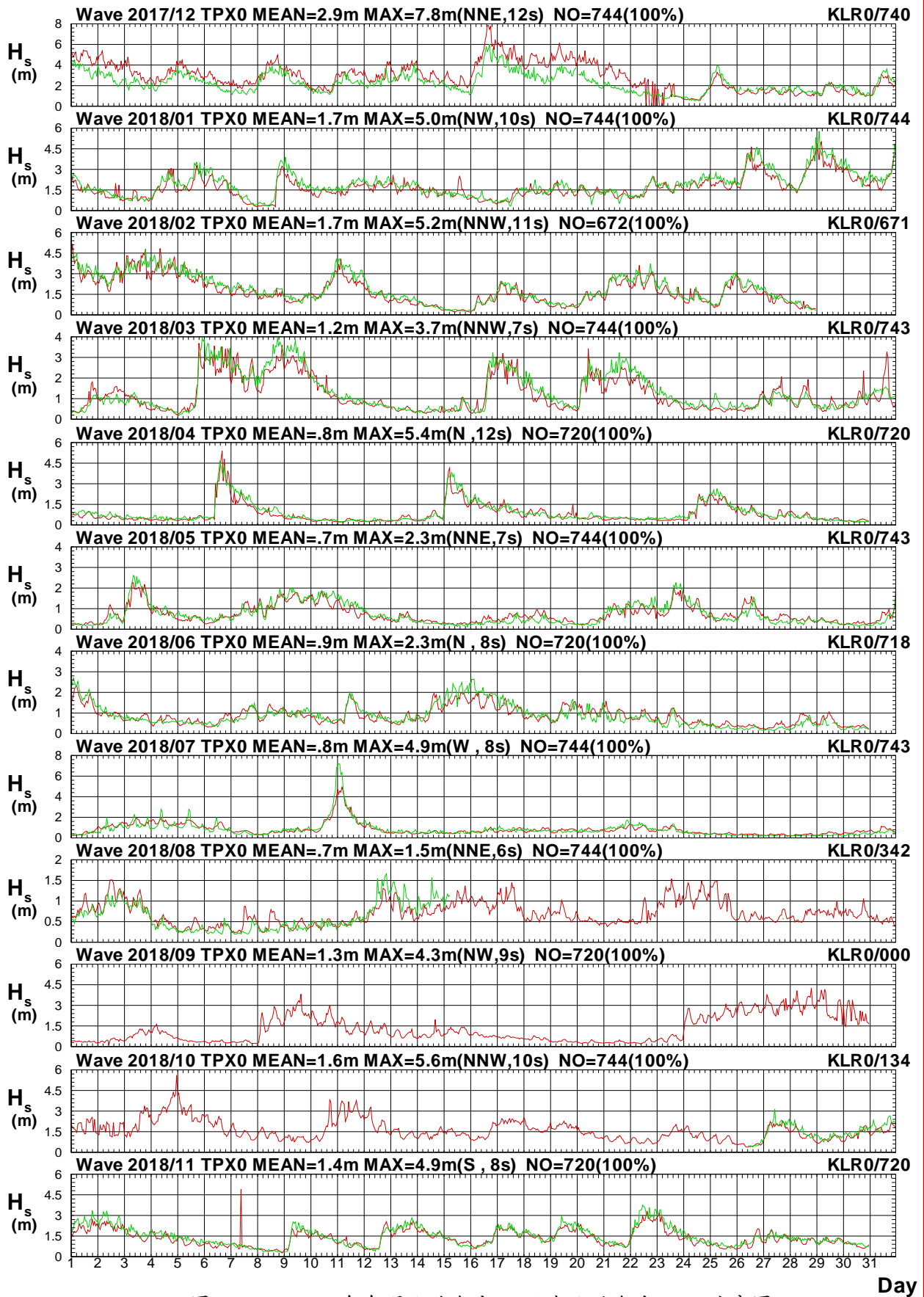


圖2.3.5a 2018年每月北苗海域 X 站與北端海域 R 站波高圖

V17CTPX0.1HA V17CKLR0.1HO V181TPX0.1HA V181KLR0.1HO V182TPX0.1HA V182KLR0.1HO  
 V183TPX0.1HA V183KLR0.1HO V184TPX0.1HA V184KLR0.1HO V185TPX0.1HA V185KLR0.1HO

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# Wave $T_p$ in Tai-Pei Harbor of TPX0 at 2018

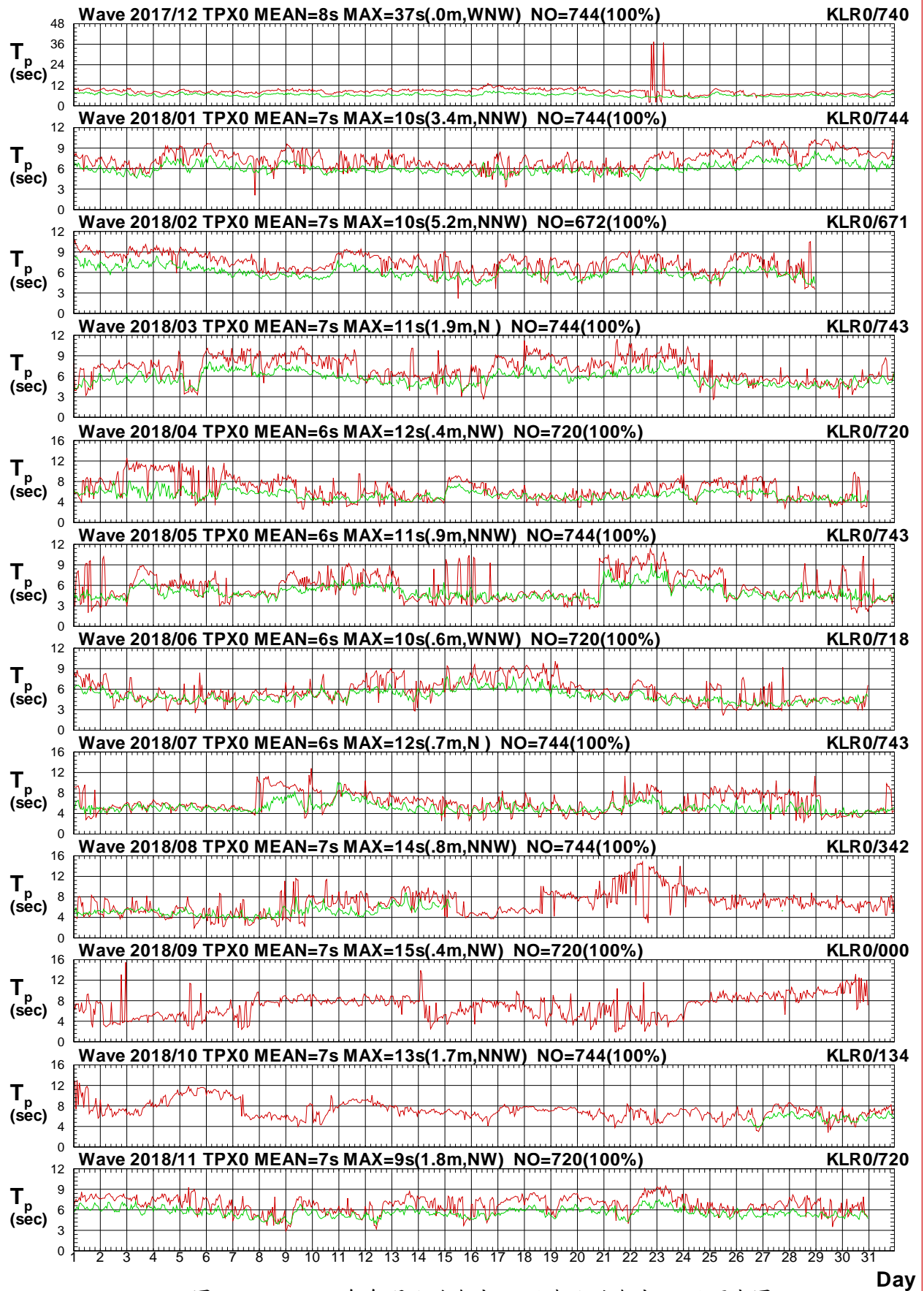


圖2.3.5b 2018年每月北苗海域 X 站與北端海域 R 站週期圖

V17CTPX0.1HA V17CKLR0.1HO V181TPX0.1HA V181KLR0.1HO V182TPX0.1HA V182KLR0.1HO  
 V183TPX0.1HA V183KLR0.1HO V184TPX0.1HA V184KLR0.1HO V185TPX0.1HA V185KLR0.1HO

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# Wave Direction in Tai-Pei Harbor of TPX0 at 2018

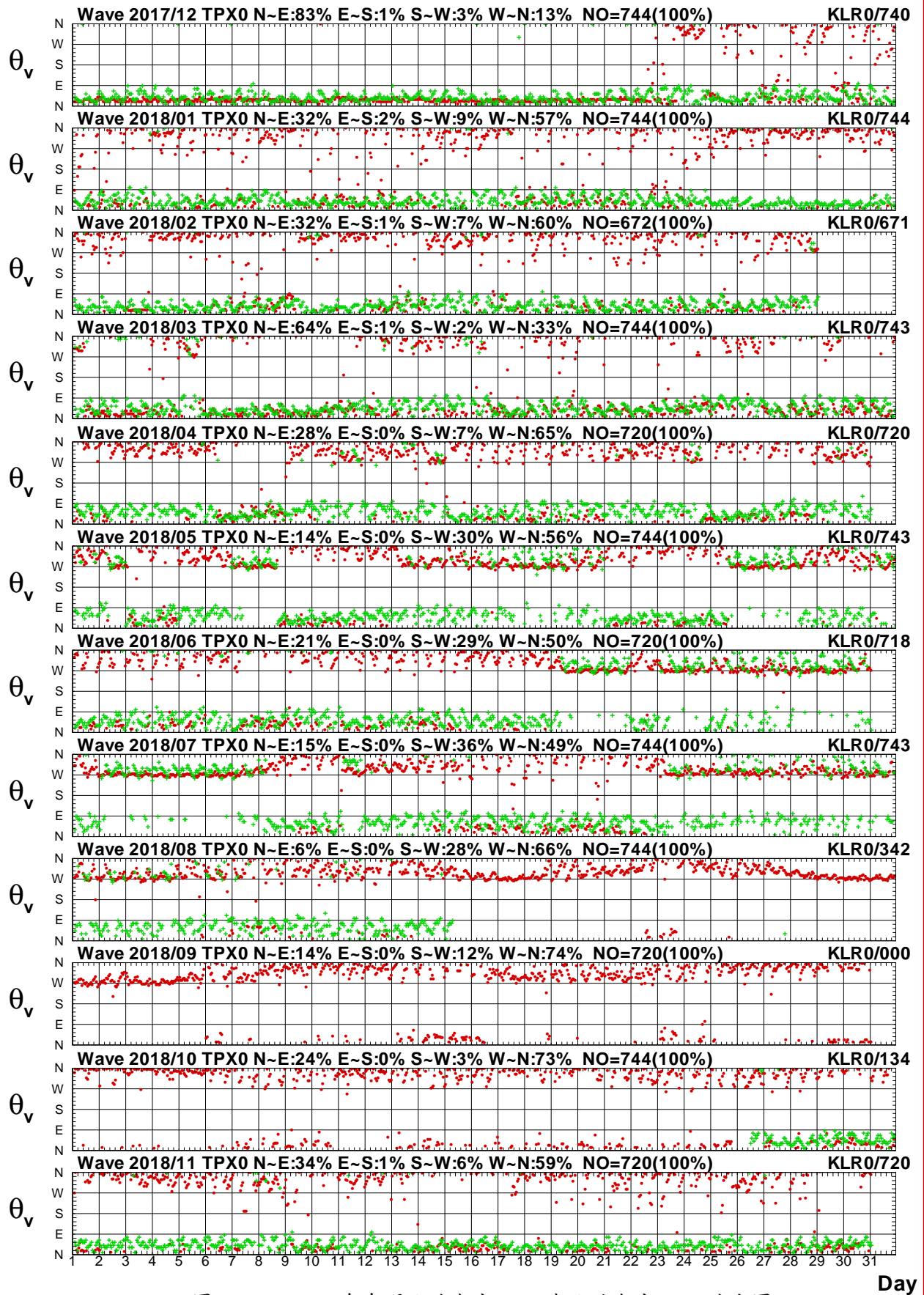


圖2.3.5c 2018年每月北苗海域 X 站與北端海域 R 站波向圖

V17CTPX0.1HA V17CKLR0.1HO V181TPX0.1HA V181KLR0.1HO V182TPX0.1HA V182KLR0.1HO  
 V183TPX0.1HA V183KLR0.1HO V184TPX0.1HA V184KLR0.1HO V185TPX0.1HA V185KLR0.1HO

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# Wave $H_s$ in Tai-Pei Harbor of TPX0 at 2018

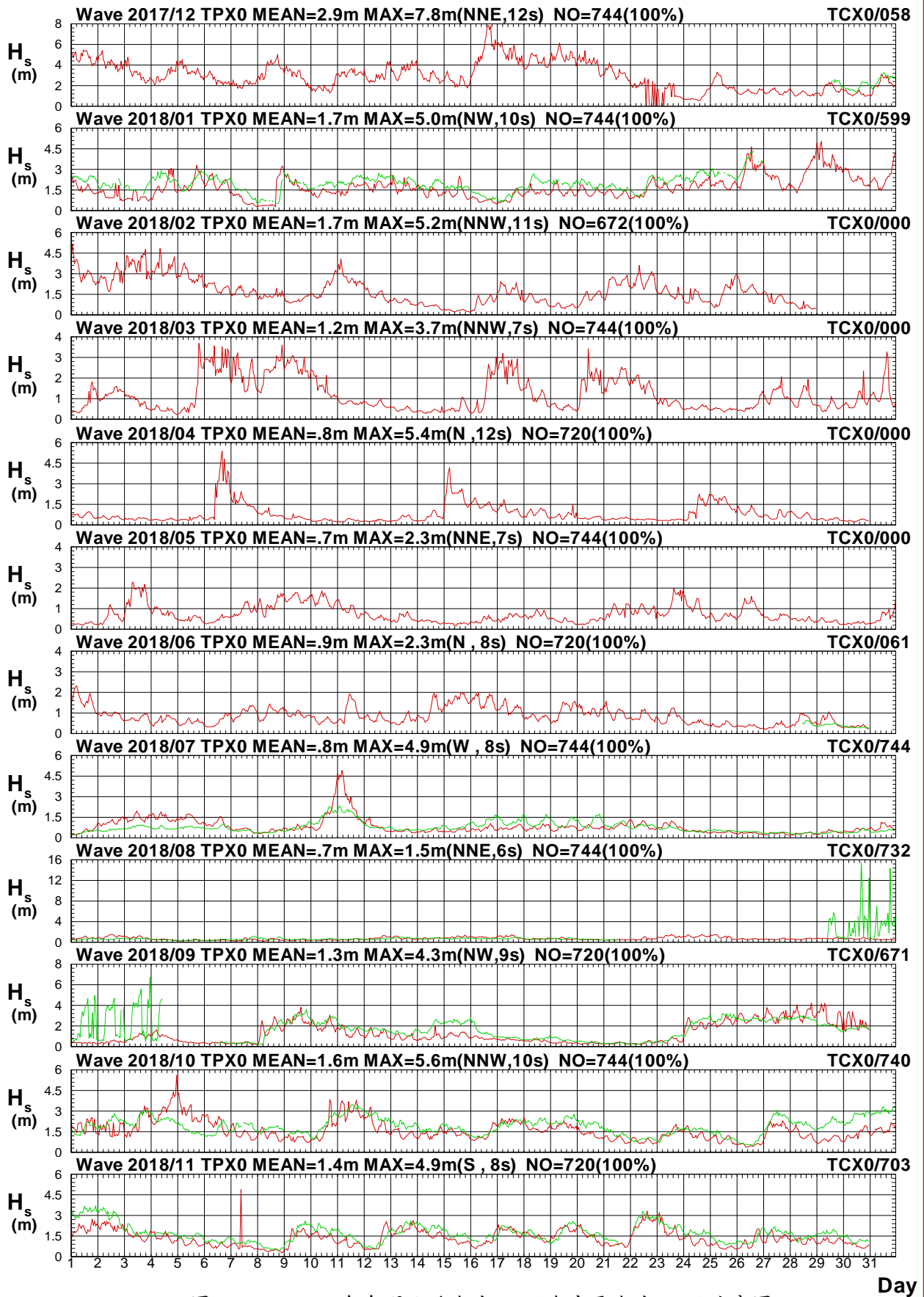


圖2.3.6a 2018年每月北苗海域 X 站與中雲海域 X 站波高圖

V17CTPX0.1HA V17CTCX0.1HO V181TPX0.1HA V181TCX0.1HO V182TPX0.1HA V182TCX0.1HO  
 V183TPX0.1HA V183TCX0.1HO V184TPX0.1HA V184TCX0.1HO V185TPX0.1HA V185TCX0.1HO

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# Wave $T_p$ in Tai-Pei Harbor of TPX0 at 2018

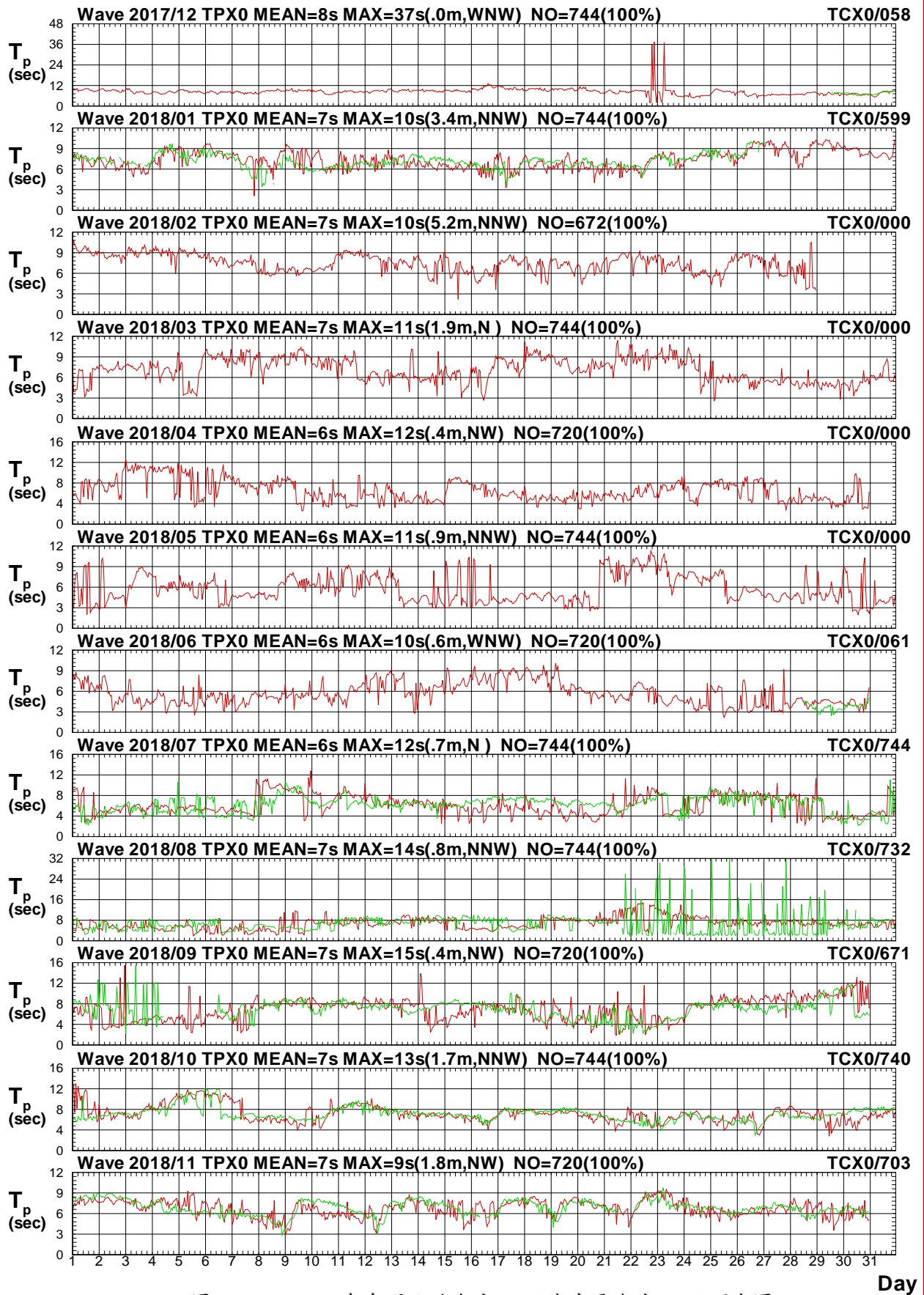


圖2.3.6b 2018年每月北苗海域 X 站與中雲海域 X 站週期圖

V17CTPX0.1HA V17CTCX0.1HO V181TPX0.1HA V181TCX0.1HO V182TPX0.1HA V182TCX0.1HO  
 V183TPX0.1HA V183TCX0.1HO V184TPX0.1HA V184TCX0.1HO V185TPX0.1HA V185TCX0.1HO

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# Wave Direction in Tai-Pei Harbor of TPX0 at 2018

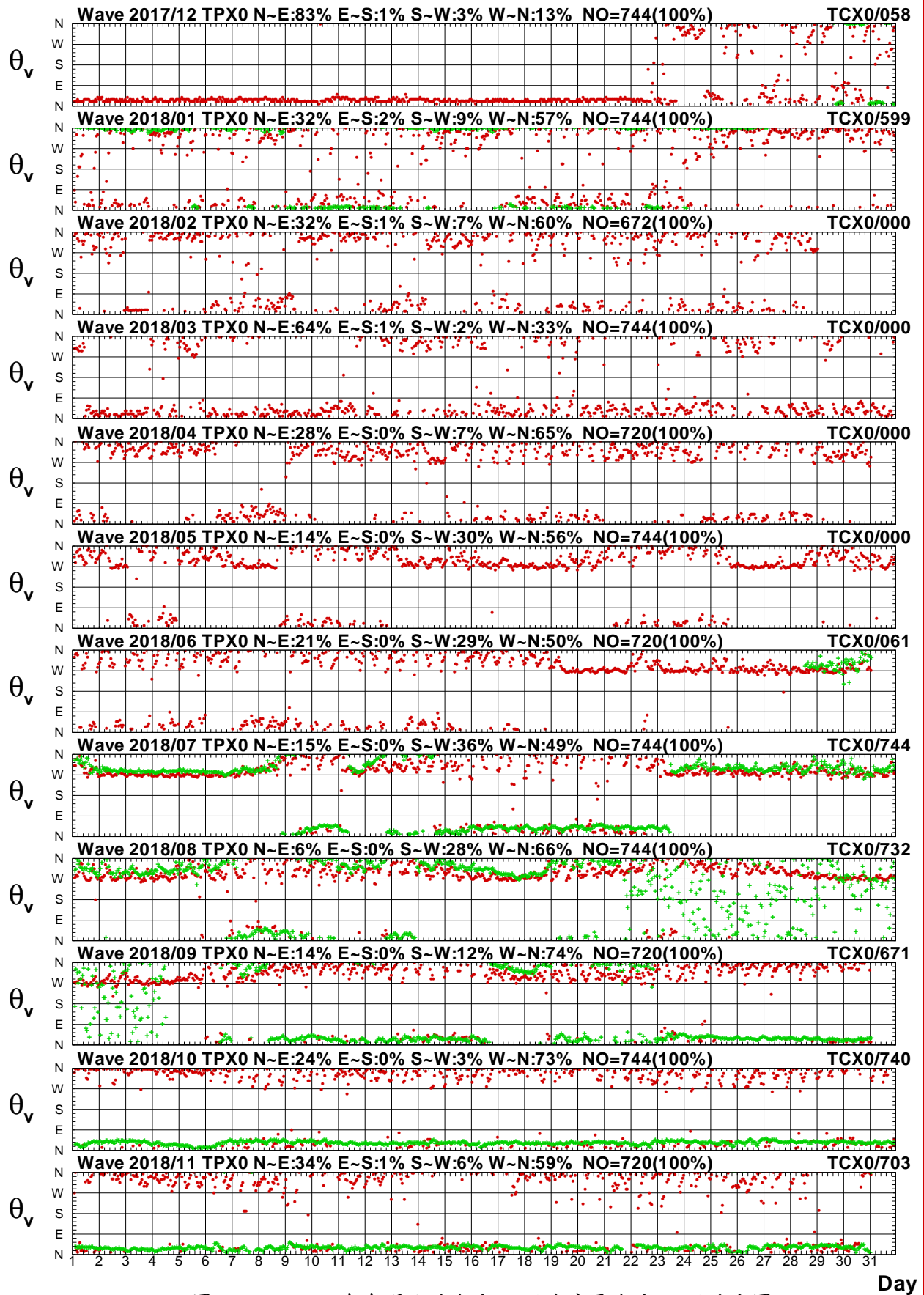


圖2.3.6c 2018年每月北苗海域 X 站與中雲海域 X 站波向圖

V17CTPX0.1HA V17CTCX0.1H0 V181TPX0.1HA V181TCX0.1H0 V182TPX0.1HA V182TCX0.1H0  
 V183TPX0.1HA V183TCX0.1H0 V184TPX0.1HA V184TCX0.1H0 V185TPX0.1HA V185TCX0.1H0

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# Wave $H_s$ in Tai-Pei Harbor of TPX0 at 2018

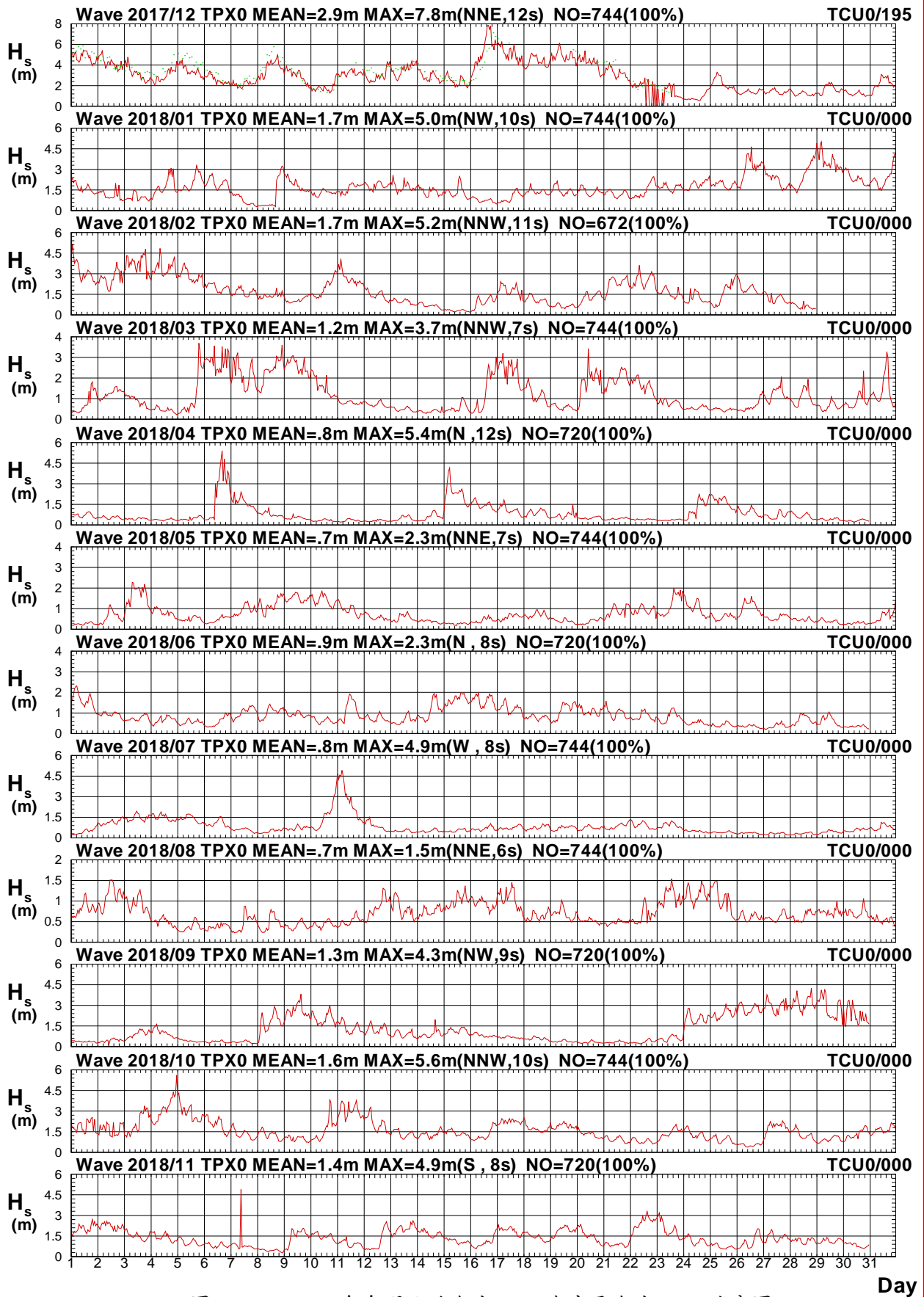


圖2.3.7a 2018年每月北苗海域 X 站與中雲海域 U 站波高圖

V17CTPX0.1HA V17CTCU0.1HO V181TPX0.1HA V181TCU0.1HO V182TPX0.1HA V182TCU0.1HO  
 V183TPX0.1HA V183TCU0.1HO V184TPX0.1HA V184TCU0.1HO V185TPX0.1HA V185TCU0.1HO

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# Wave $T_p$ in Tai-Pei Harbor of TPX0 at 2018

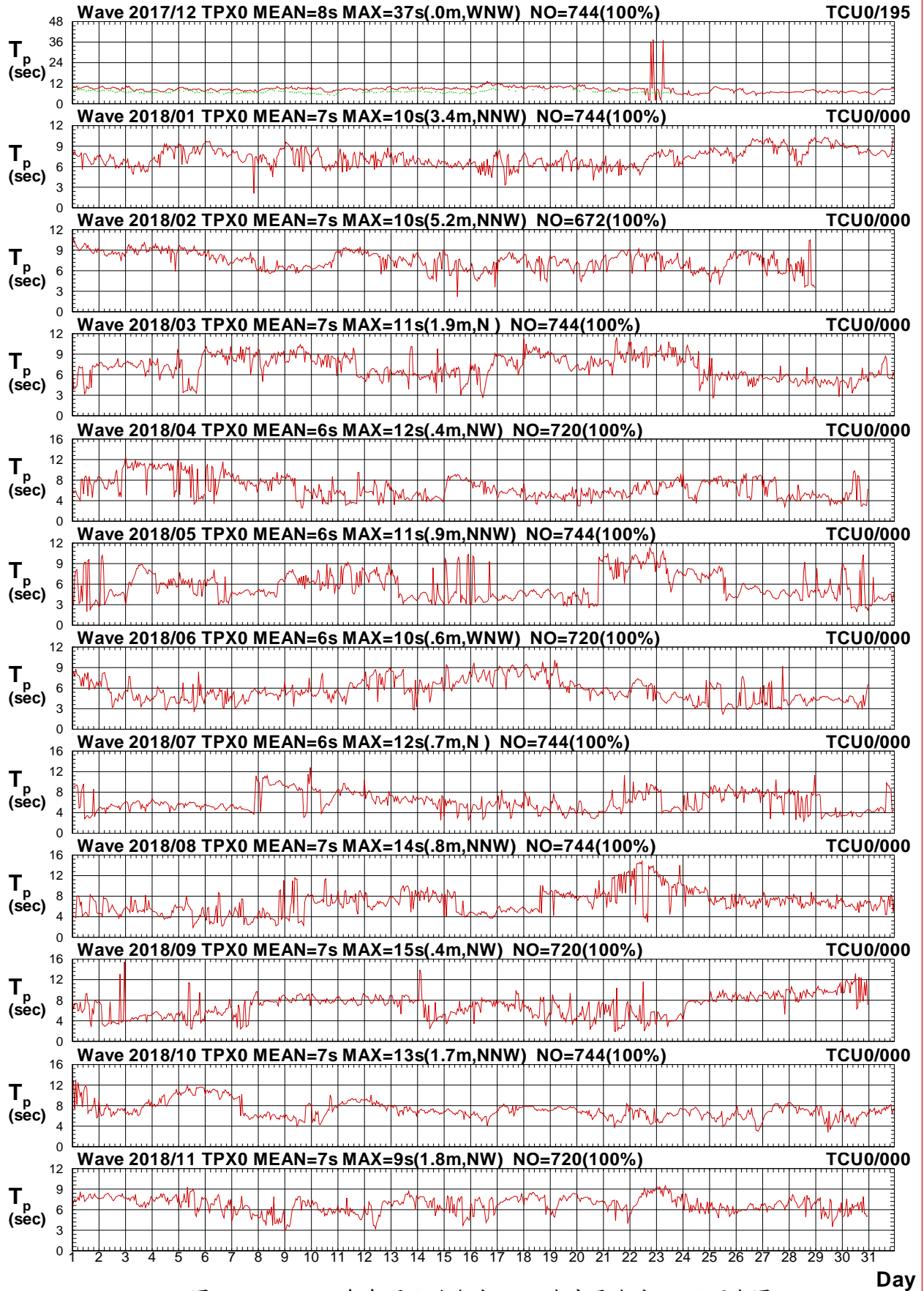


圖2.3.7b 2018年每月北苗海域 X 站與中雲海域 U 站週期圖

V17CTPX0.1HA V17CTCU0.1H0 V181TPX0.1HA V181TCU0.1H0 V182TPX0.1HA V182TCU0.1H0  
 V183TPX0.1HA V183TCU0.1H0 V184TPX0.1HA V184TCU0.1H0 V185TPX0.1HA V185TCU0.1H0

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# Wave Direction in Tai-Pei Harbor of TPX0 at 2018

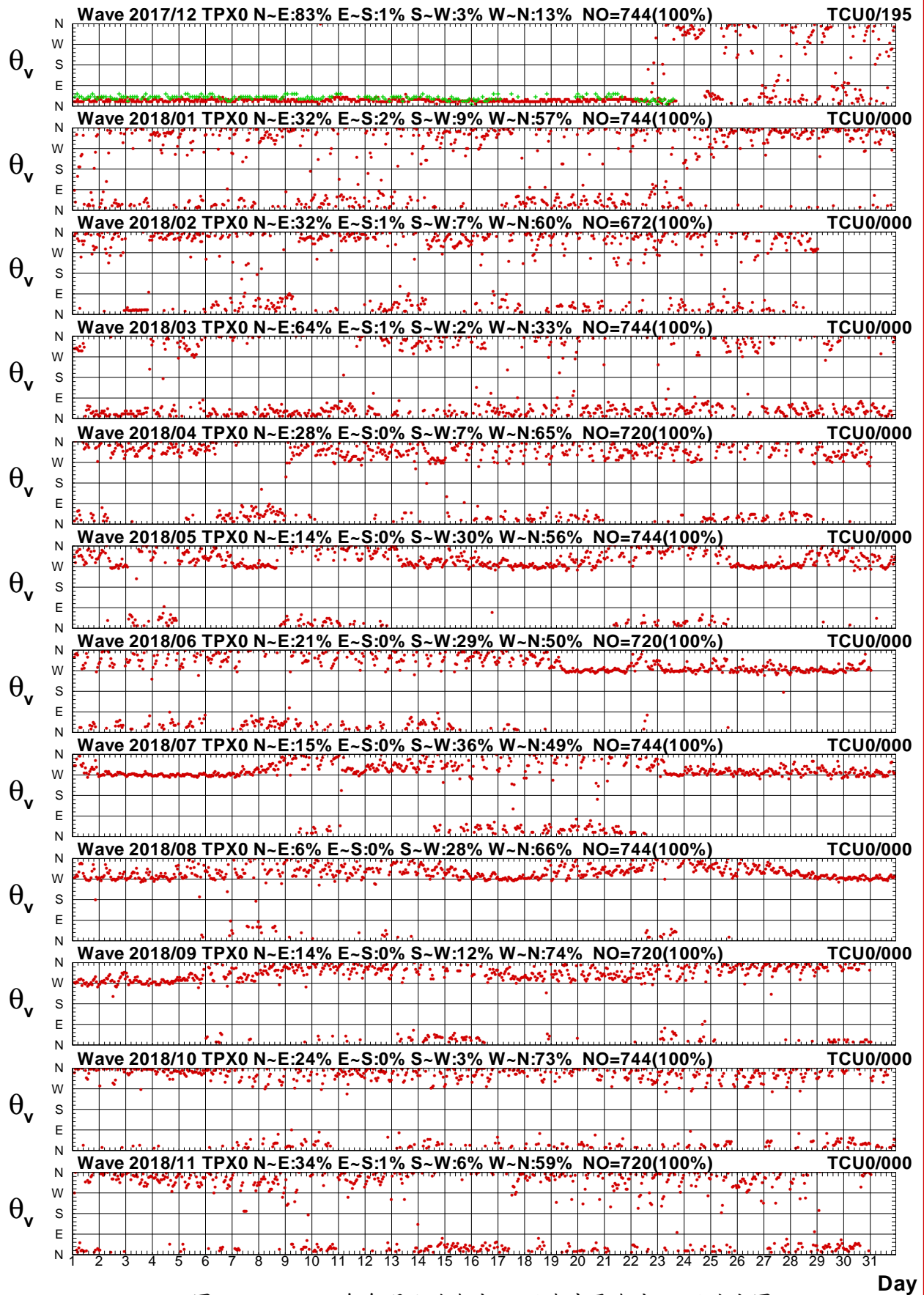


圖2.3.7c 2018年每月北苗海域 X 站與中雲海域 U 站波向圖

V17CTPX0.1HA V17CTCU0.1H0 V181TPX0.1HA V181TCU0.1H0 V182TPX0.1HA V182TCU0.1H0  
 V183TPX0.1HA V183TCU0.1H0 V184TPX0.1HA V184TCU0.1H0 V185TPX0.1HA V185TCU0.1H0

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## 2.4 2018年北苗海域波浪**主要測站2**(修補後)與 **其他測站**(修補前)每月波浪歷線比較圖





# Wave $H_s$ in Tai-Pei Harbor of TPY0 at 2018

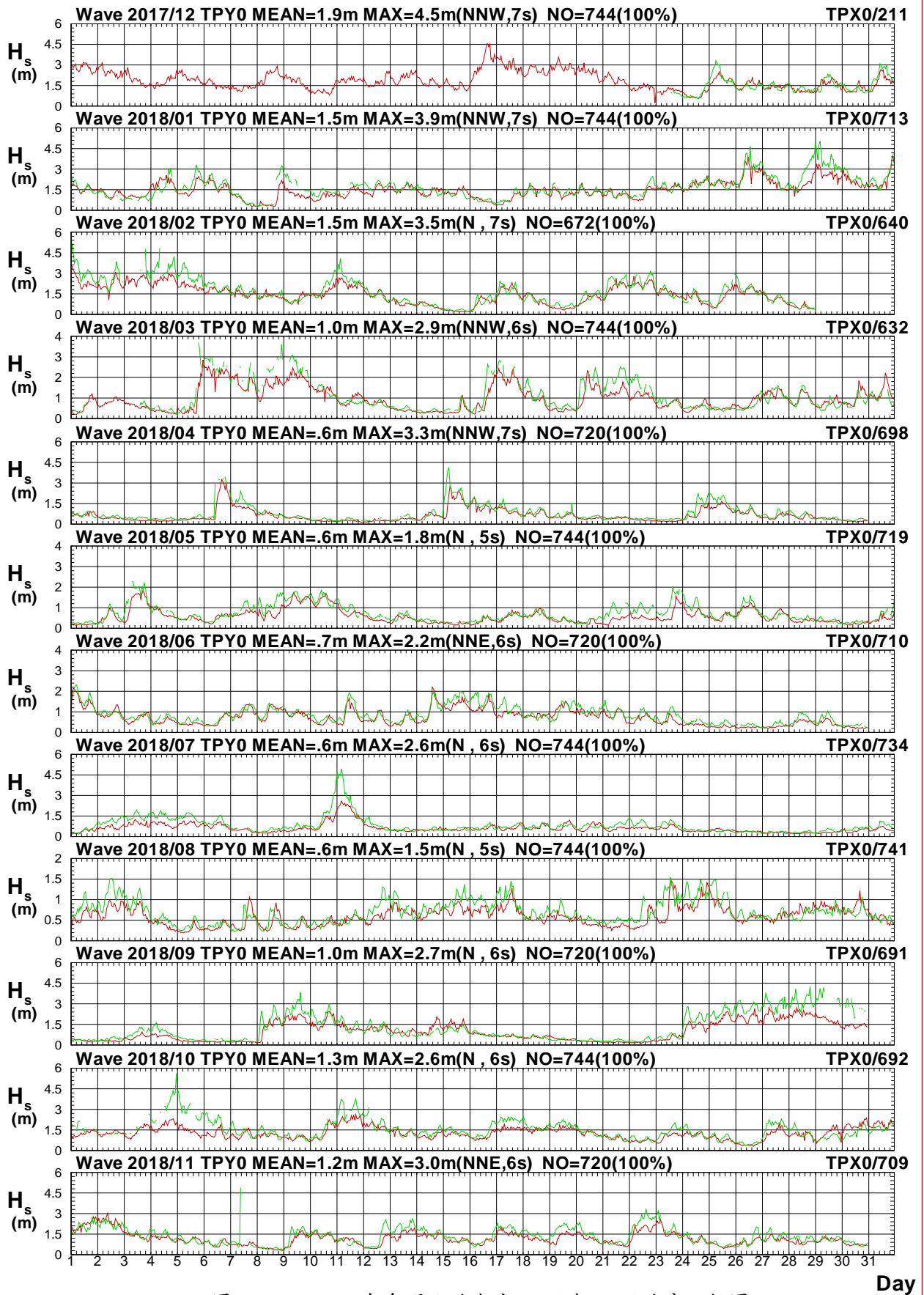


圖2.4.1a 2018年每月北苗海域 Y 站與 X 站波高比較圖

V17CTPY0.1HA V17CTPX0.1H0 V181TPY0.1HA V181TPX0.1H0 V182TPY0.1HA V182TPX0.1H0  
 V183TPY0.1HA V183TPX0.1H0 V184TPY0.1HA V184TPX0.1H0 V185TPY0.1HA V185TPX0.1H0

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# Wave $T_p$ in Tai-Pei Harbor of TPY0 at 2018

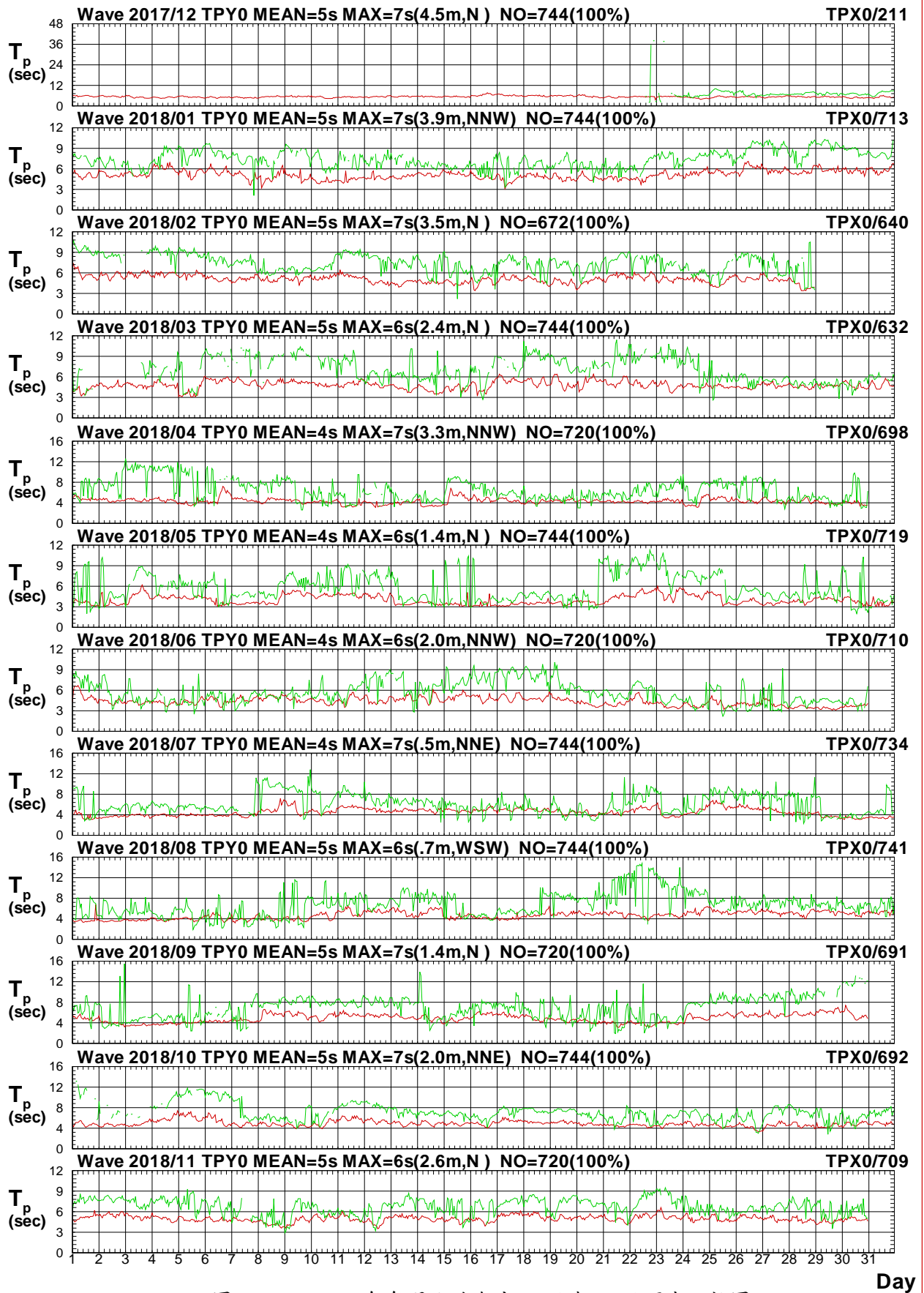


圖2.4.1b 2018年每月北苗海域 Y 站與 X 站週期比較圖

V17CTPY0.1HA V17CTPX0.1H0 V181TPY0.1HA V181TPX0.1H0 V182TPY0.1HA V182TPX0.1H0  
 V183TPY0.1HA V183TPX0.1H0 V184TPY0.1HA V184TPX0.1H0 V185TPY0.1HA V185TPX0.1H0

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# Wave Direction in Tai-Pei Harbor of TPY0 at 2018

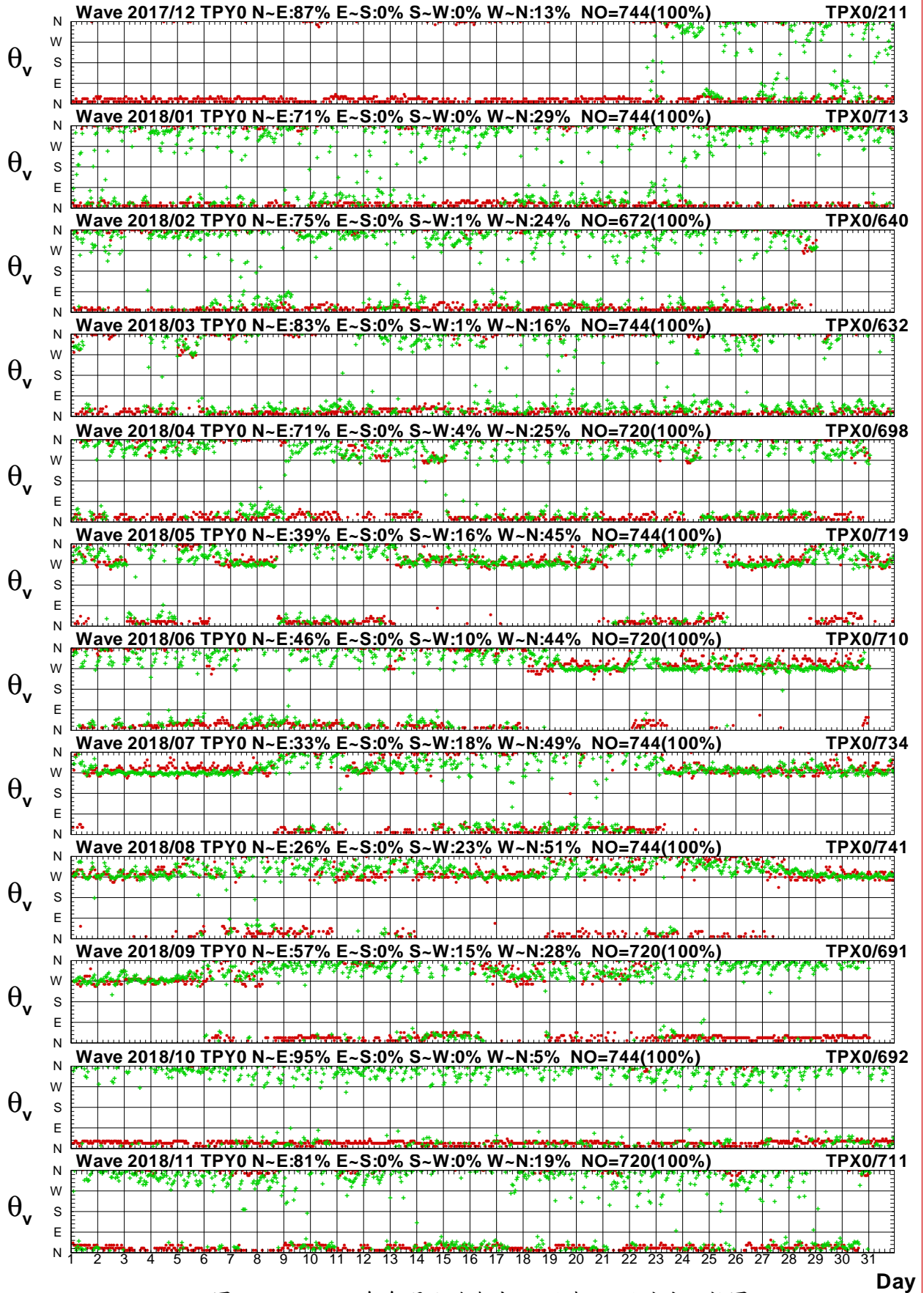


圖2.4.1c 2018年每月北苗海域 Y 站與 X 站波向比較圖

V17CTPY0.1HA V17CTPX0.1H0 V181TPY0.1HA V181TPX0.1H0 V182TPY0.1HA V182TPX0.1H0  
 V183TPY0.1HA V183TPX0.1H0 V184TPY0.1HA V184TPX0.1H0 V185TPY0.1HA V185TPX0.1H0

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# Wave $H_s$ in Tai-Pei Harbor of TPY0 at 2018

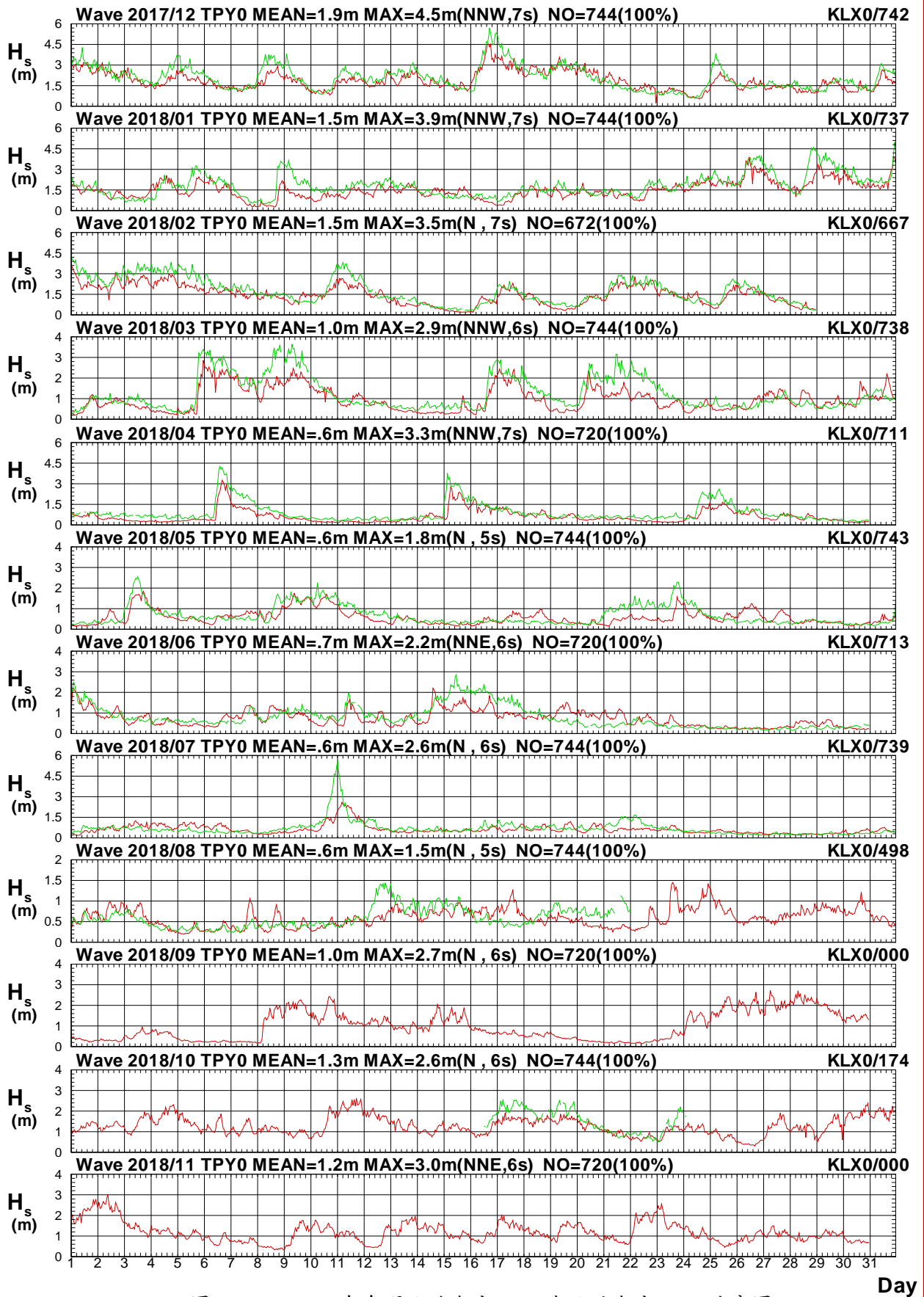


圖2.4.2a 2018年每月北苗海域 Y 站與北端海域 X 站波高圖

V17CTPY0.1HA V17CKLX0.1H0 V181TPY0.1HA V181KLX0.1H0 V182TPY0.1HA V182KLX0.1H0  
 V183TPY0.1HA V183KLX0.1H0 V184TPY0.1HA V184KLX0.1H0 V185TPY0.1HA V185KLX0.1H0

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# Wave $T_p$ in Tai-Pei Harbor of TPY0 at 2018

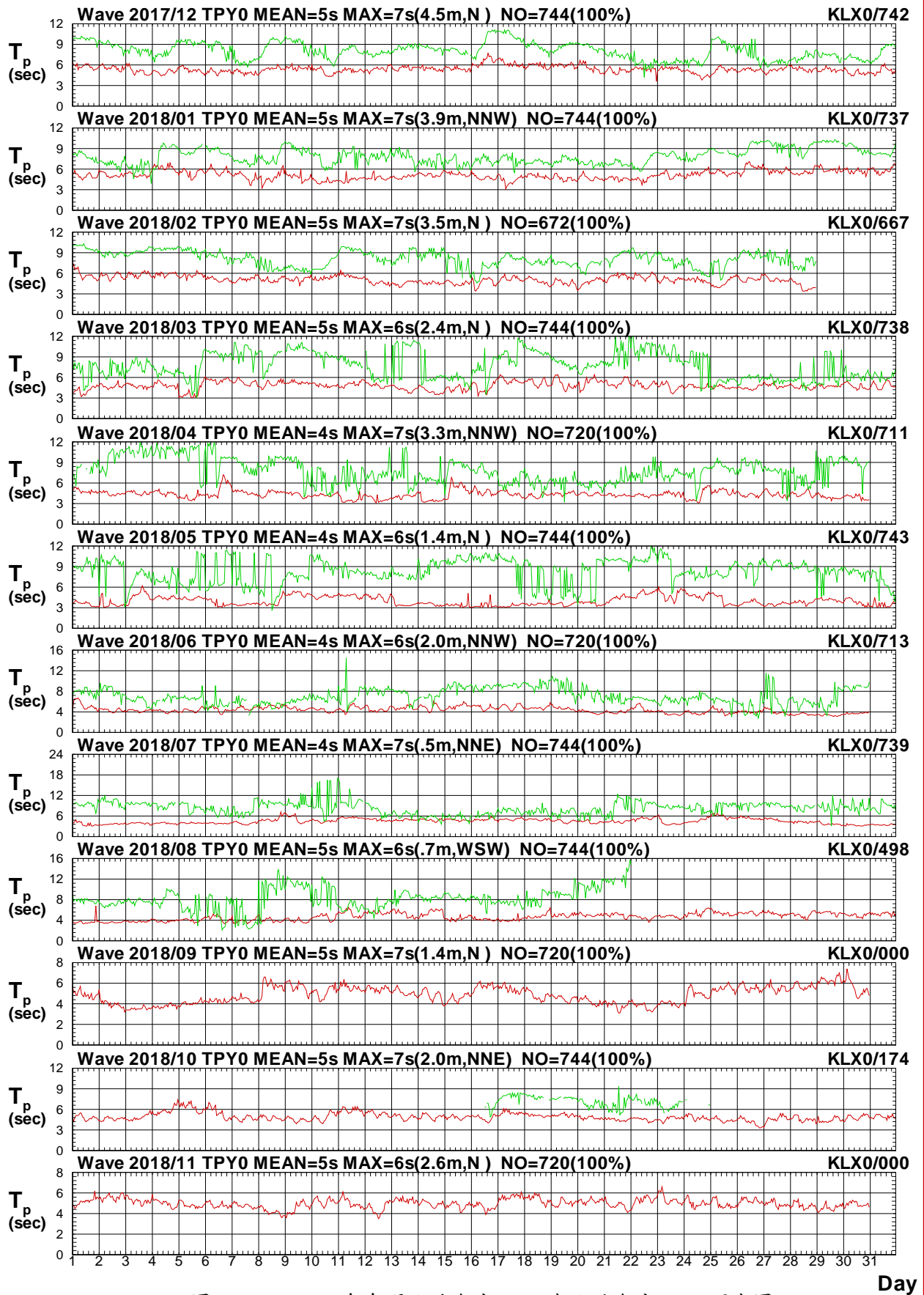


圖2.4.2b 2018年每月北苗海域 Y 站與北端海域 X 站週期圖

V17CTPY0.1HA V17CKLX0.1H0 V181TPY0.1HA V181KLX0.1H0 V182TPY0.1HA V182KLX0.1H0  
 V183TPY0.1HA V183KLX0.1H0 V184TPY0.1HA V184KLX0.1H0 V185TPY0.1HA V185KLX0.1H0

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# Wave Direction in Tai-Pei Harbor of TPY0 at 2018

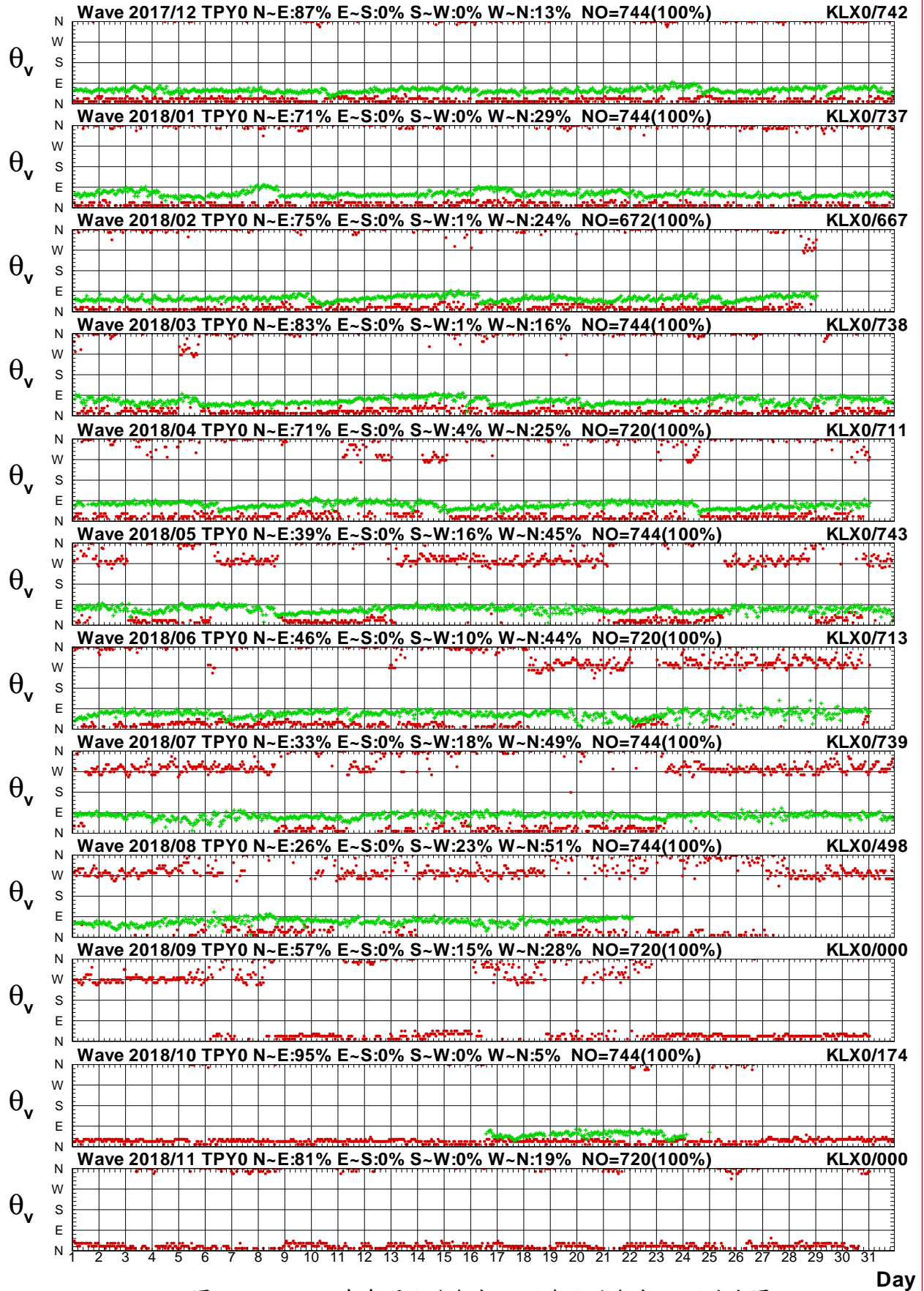


圖2.4.2c 2018年每月北苗海域 Y 站與北端海域 X 站波向圖

V17CTPY0.1HA V17CKLX0.1H0 V181TPY0.1HA V181KLX0.1H0 V182TPY0.1HA V182KLX0.1H0  
 V183TPY0.1HA V183KLX0.1H0 V184TPY0.1HA V184KLX0.1H0 V185TPY0.1HA V185KLX0.1H0

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# Wave $H_s$ in Tai-Pei Harbor of TPY0 at 2018

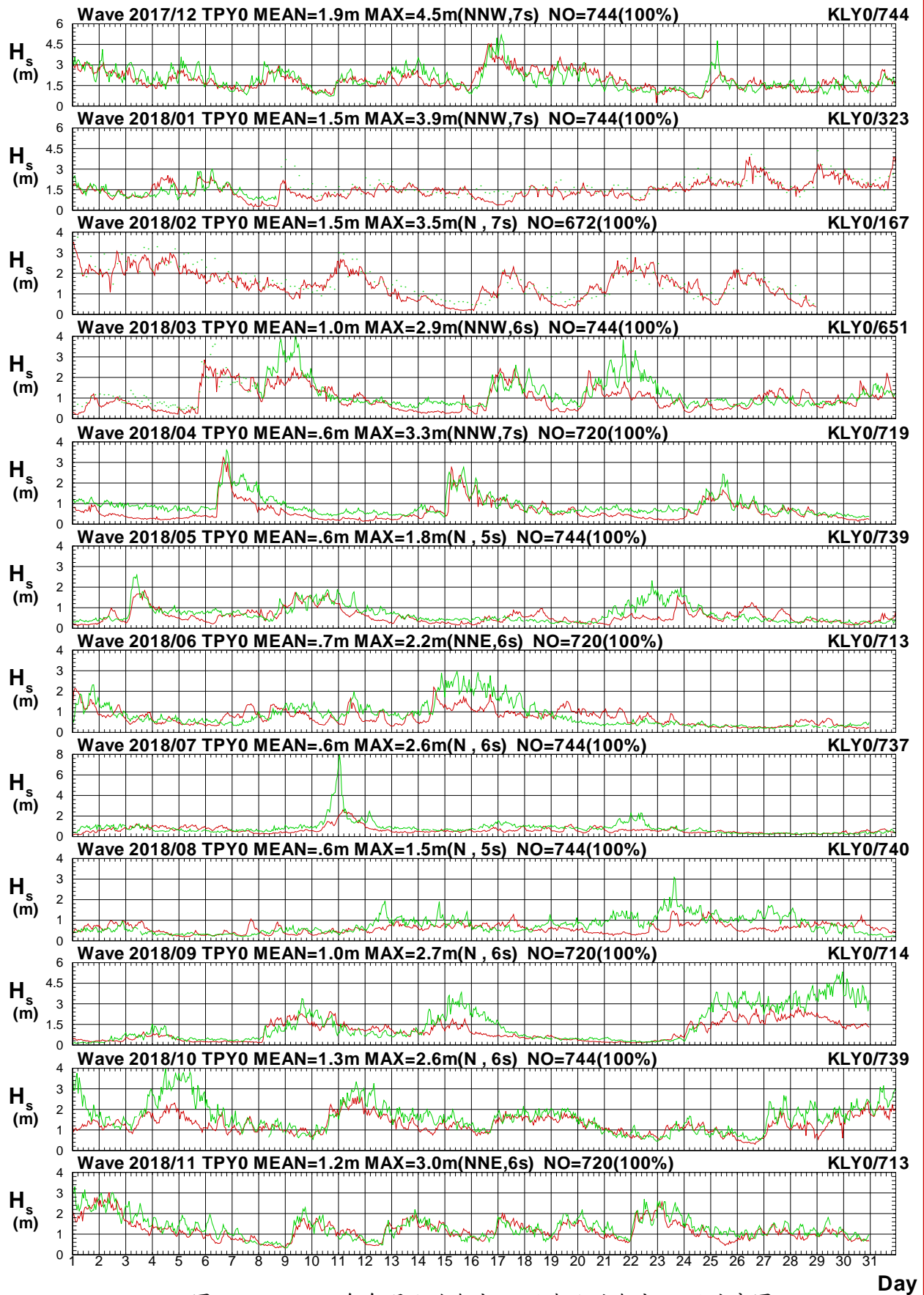


圖2.4.3a 2018年每月北苗海域 Y 站與北端海域 Y 站波高圖

V17CTPY0.1HA V17CKLY0.1H0 V181TPY0.1HA V181KLY0.1H0 V182TPY0.1HA V182KLY0.1H0  
 V183TPY0.1HA V183KLY0.1H0 V184TPY0.1HA V184KLY0.1H0 V185TPY0.1HA V185KLY0.1H0

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# Wave $T_p$ in Tai-Pei Harbor of TPY0 at 2018

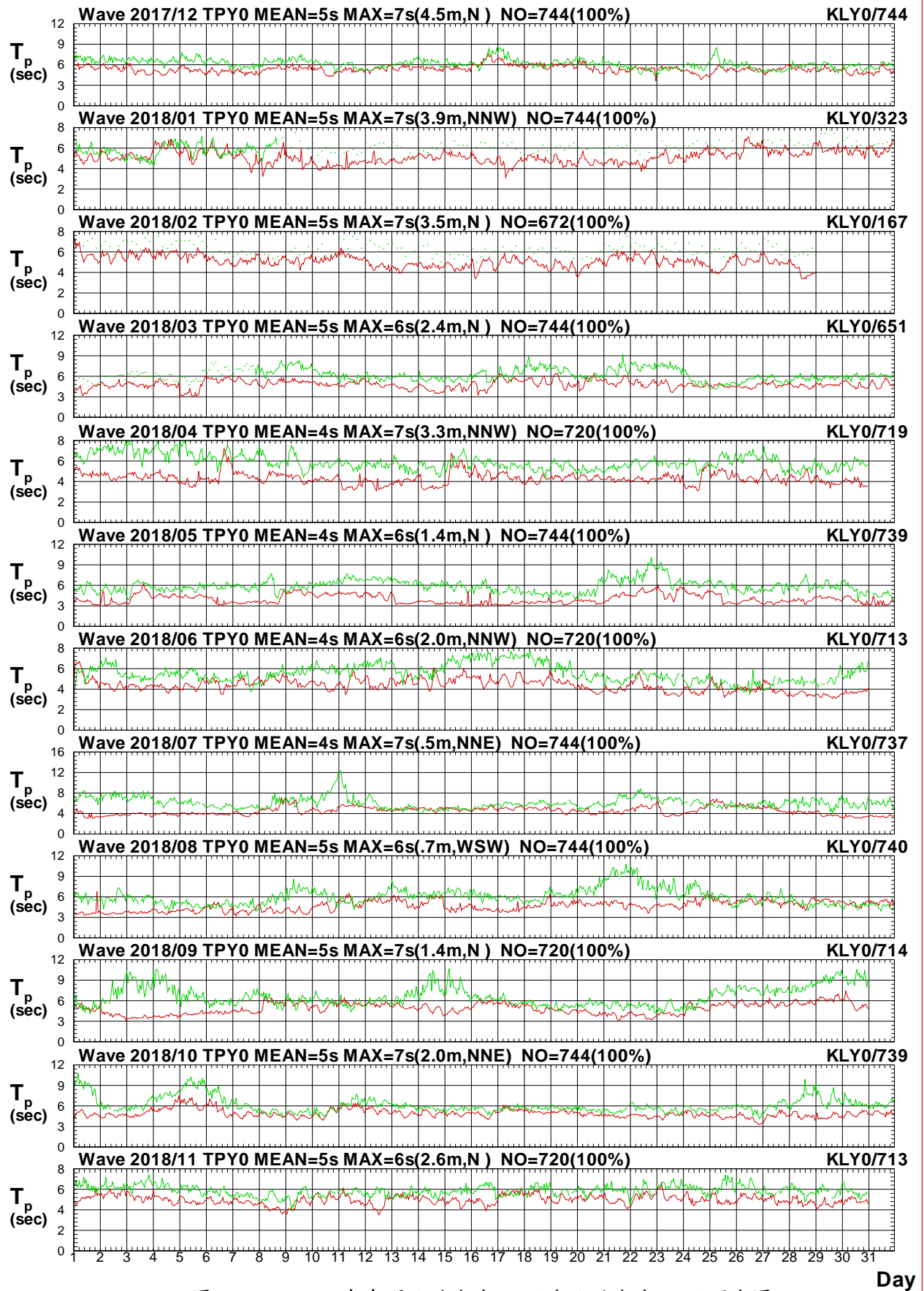


圖2.4.3b 2018年每月北苗海域 Y 站與北端海域 Y 站週期圖

V17CTPY0.1HA V17CKLY0.1H0 V181TPY0.1HA V181KLY0.1H0 V182TPY0.1HA V182KLY0.1H0  
 V183TPY0.1HA V183KLY0.1H0 V184TPY0.1HA V184KLY0.1H0 V185TPY0.1HA V185KLY0.1H0

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# Wave Direction in Tai-Pei Harbor of TPY0 at 2018

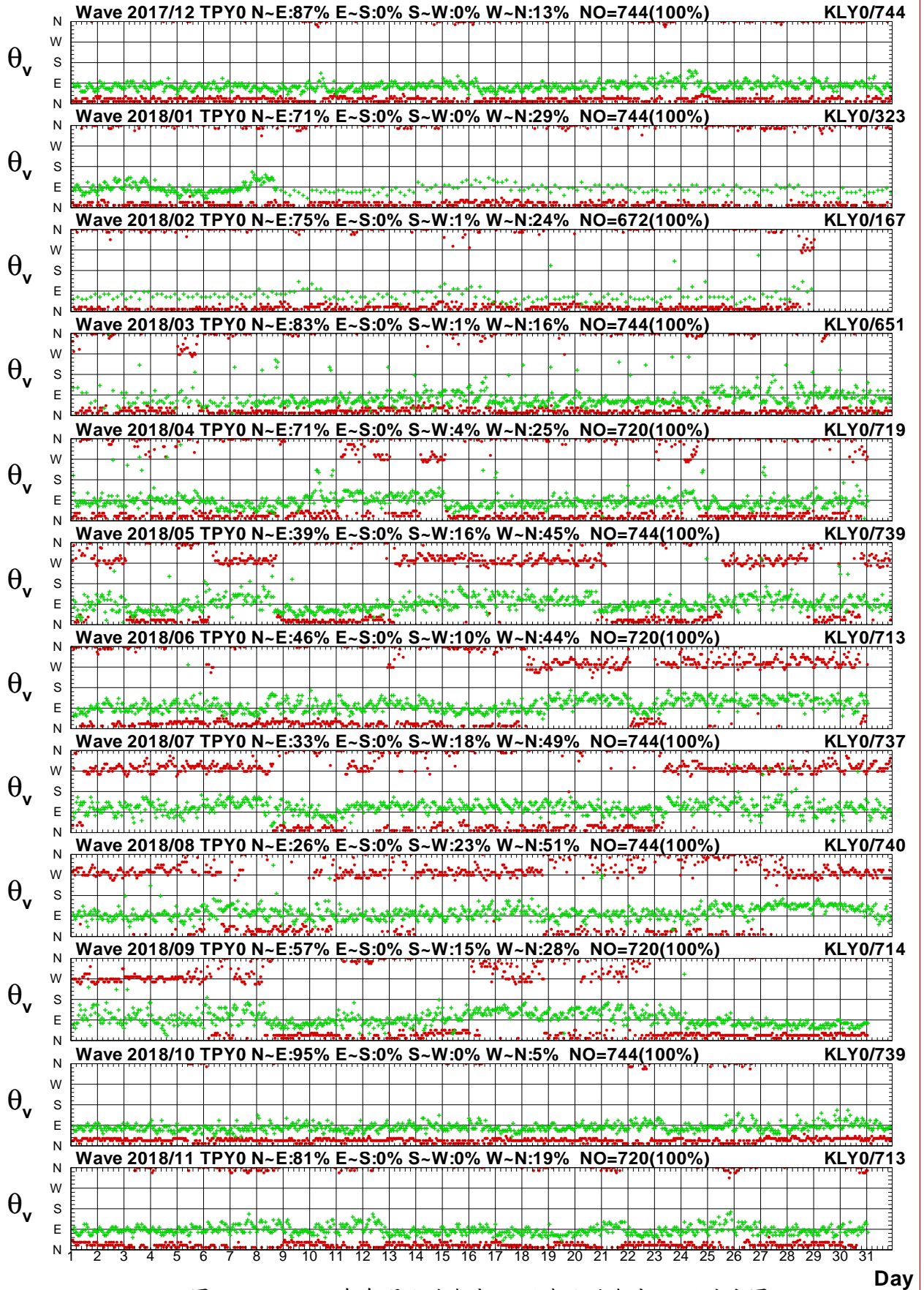


圖2.4.3c 2018年每月北苗海域 Y 站與北端海域 Y 站波向圖

V17CTPY0.1HA V17CKLY0.1H0 V181TPY0.1HA V181KLY0.1H0 V182TPY0.1HA V182KLY0.1H0  
 V183TPY0.1HA V183KLY0.1H0 V184TPY0.1HA V184KLY0.1H0 V185TPY0.1HA V185KLY0.1H0

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# Wave $H_s$ in Tai-Pei Harbor of TPY0 at 2018

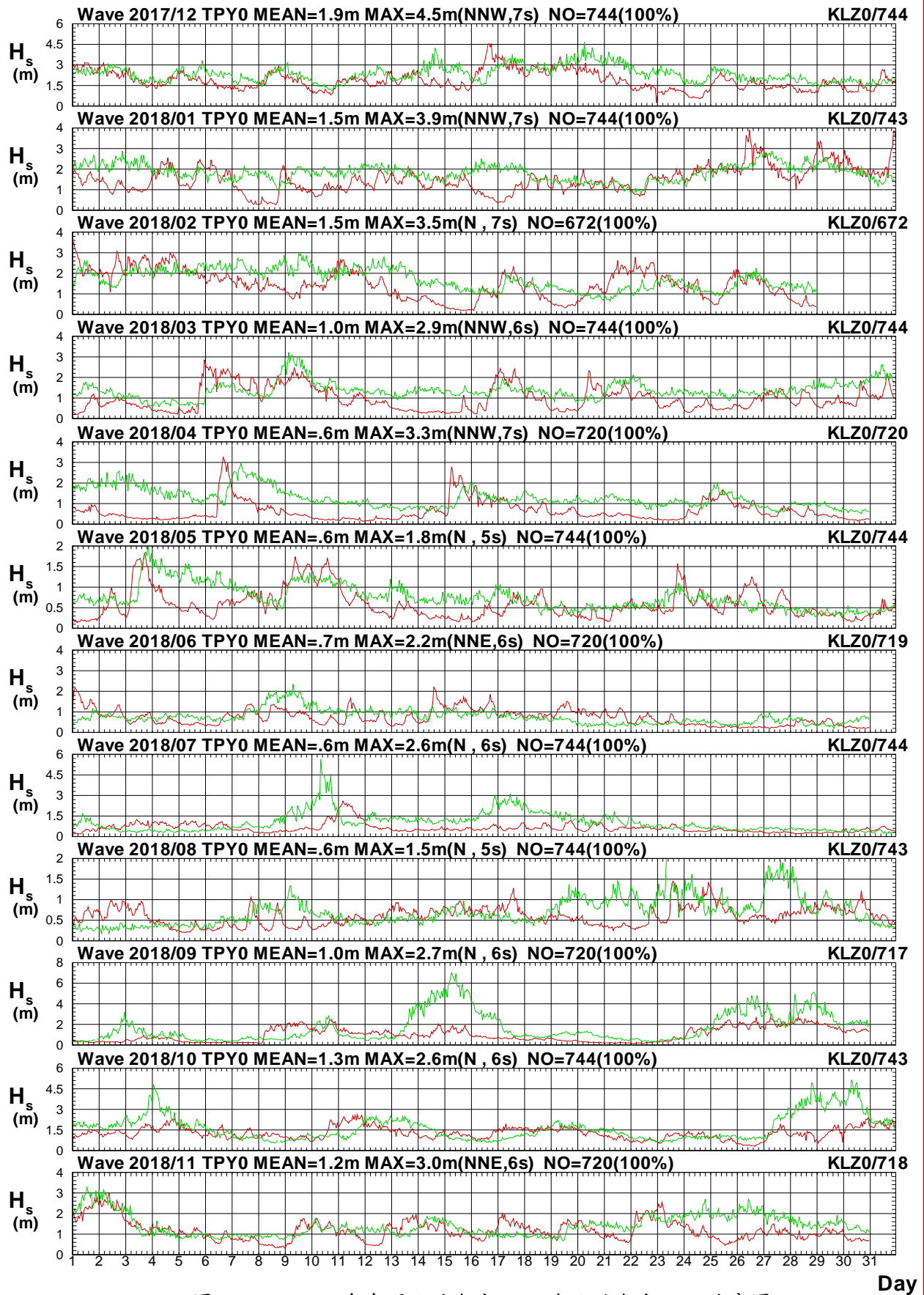


圖2.4.4a 2018年每月北苗海域 Y 站與北端海域 Z 站波高圖

V17CTPY0.1HA V17CKLZ0.1H0 V181TPY0.1HA V181KLZ0.1H0 V182TPY0.1HA V182KLZ0.1H0  
 V183TPY0.1HA V183KLZ0.1H0 V184TPY0.1HA V184KLZ0.1H0 V185TPY0.1HA V185KLZ0.1H0

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# Wave $T_p$ in Tai-Pei Harbor of TPY0 at 2018

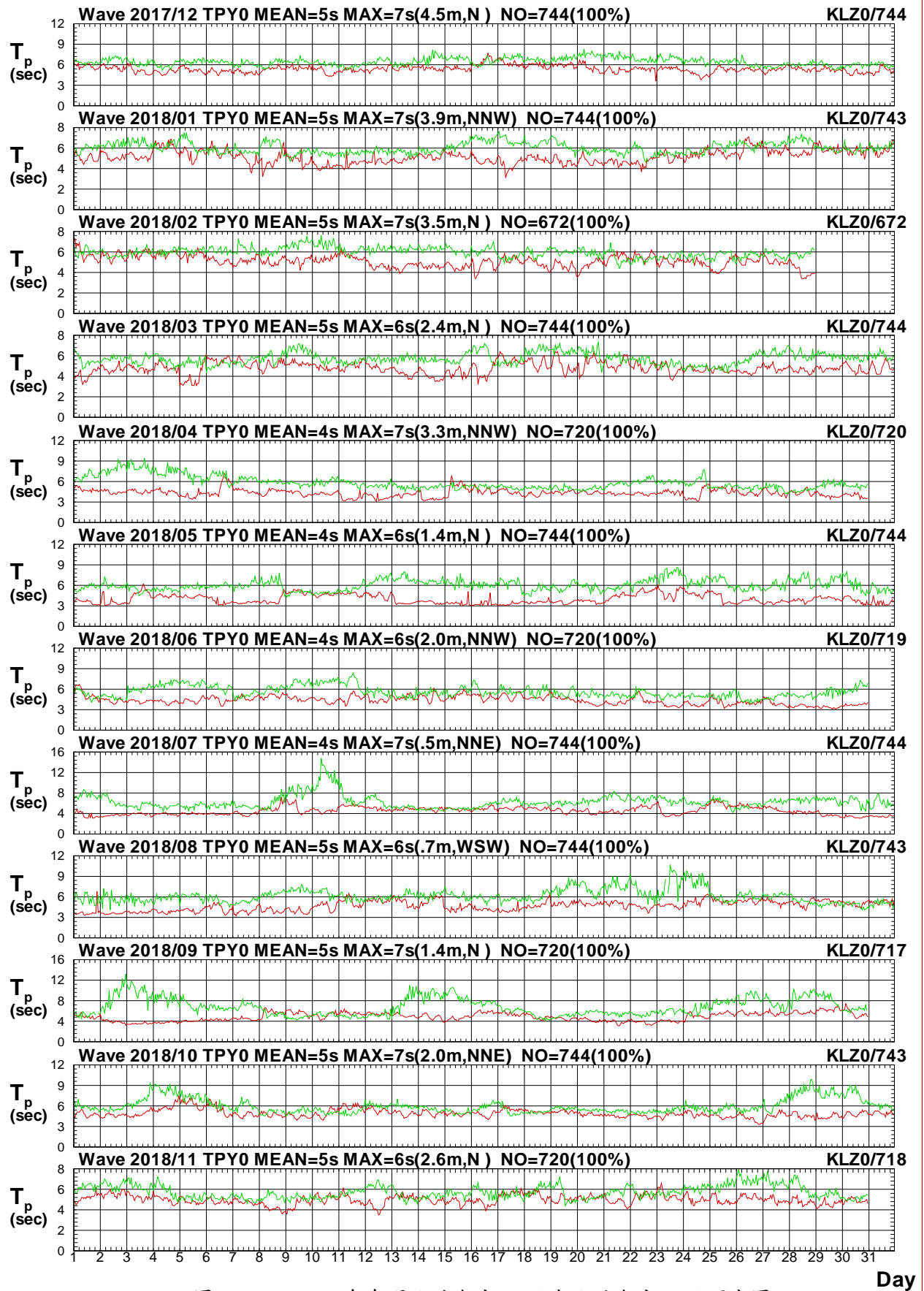


圖2.4.4b 2018年每月北苗海域 Y 站與北端海域 Z 站週期圖

V17CTPY0.1HA V17CKLZ0.1H0 V181TPY0.1HA V181KLZ0.1H0 V182TPY0.1HA V182KLZ0.1H0  
 V183TPY0.1HA V183KLZ0.1H0 V184TPY0.1HA V184KLZ0.1H0 V185TPY0.1HA V185KLZ0.1H0

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# Wave Direction in Tai-Pei Harbor of TPY0 at 2018

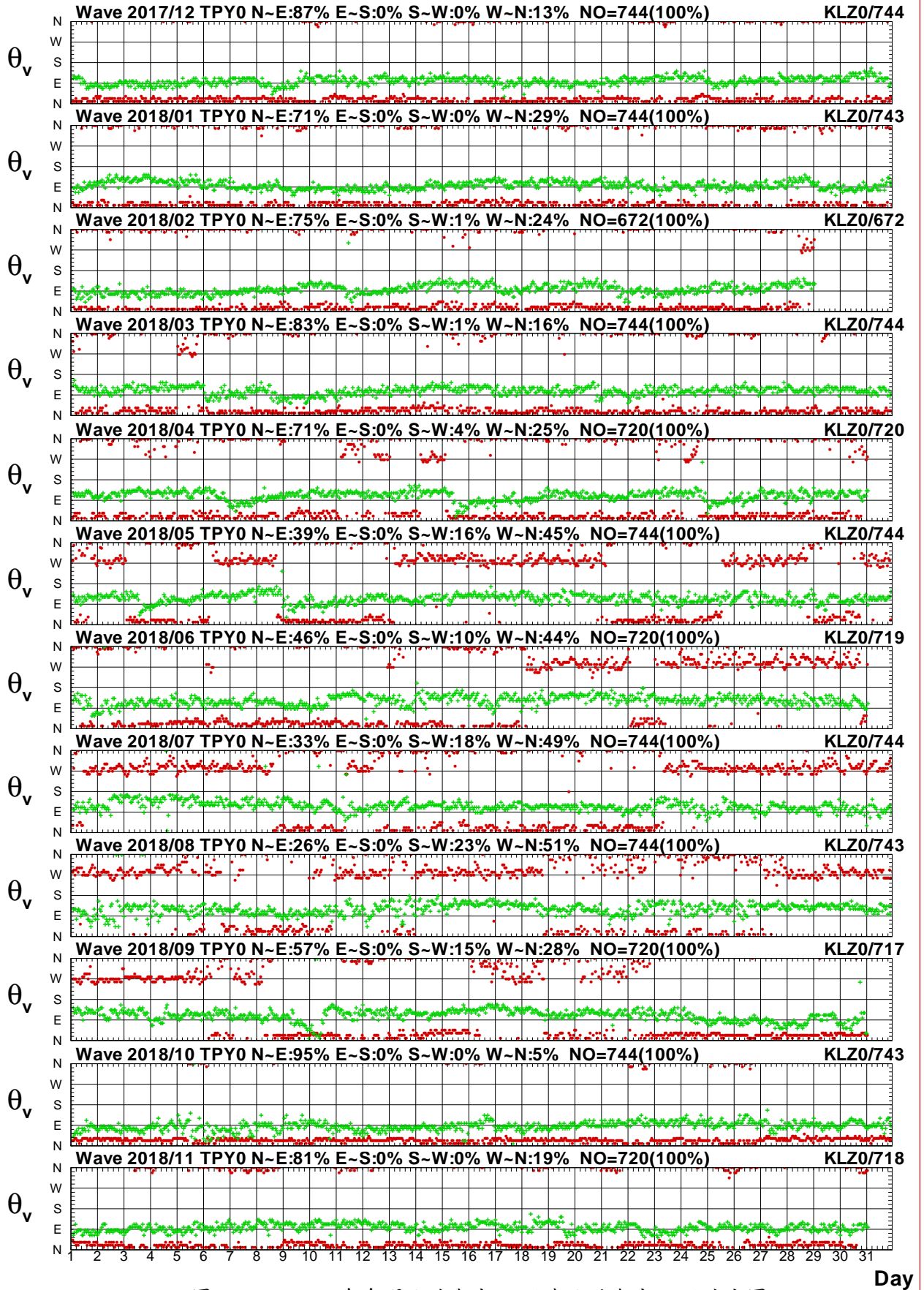


圖2.4.4c 2018年每月北苗海域 Y 站與北端海域 Z 站波向圖

V17CTPY0.1HA V17CKLZ0.1H0 V181TPY0.1HA V181KLZ0.1H0 V182TPY0.1HA V182KLZ0.1H0  
 V183TPY0.1HA V183KLZ0.1H0 V184TPY0.1HA V184KLZ0.1H0 V185TPY0.1HA V185KLZ0.1H0

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# Wave $H_s$ in Tai-Pei Harbor of TPY0 at 2018

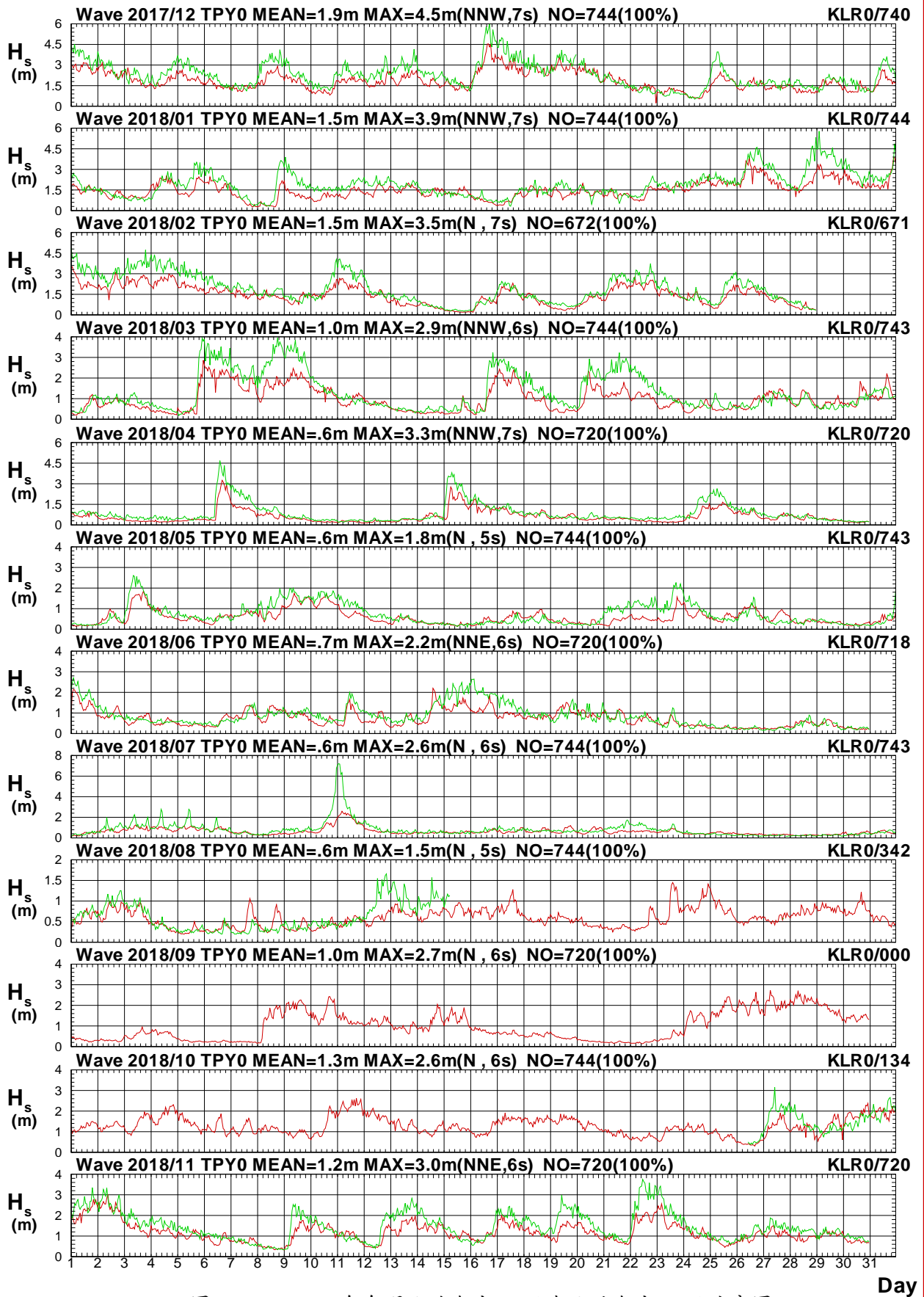


圖2.4.5a 2018年每月北苗海域 Y 站與北端海域 R 站波高圖

V17CTPY0.1HA V17CKLR0.1HO V181TPY0.1HA V181KLR0.1HO V182TPY0.1HA V182KLR0.1HO  
 V183TPY0.1HA V183KLR0.1HO V184TPY0.1HA V184KLR0.1HO V185TPY0.1HA V185KLR0.1HO

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# Wave $T_p$ in Tai-Pei Harbor of TPY0 at 2018

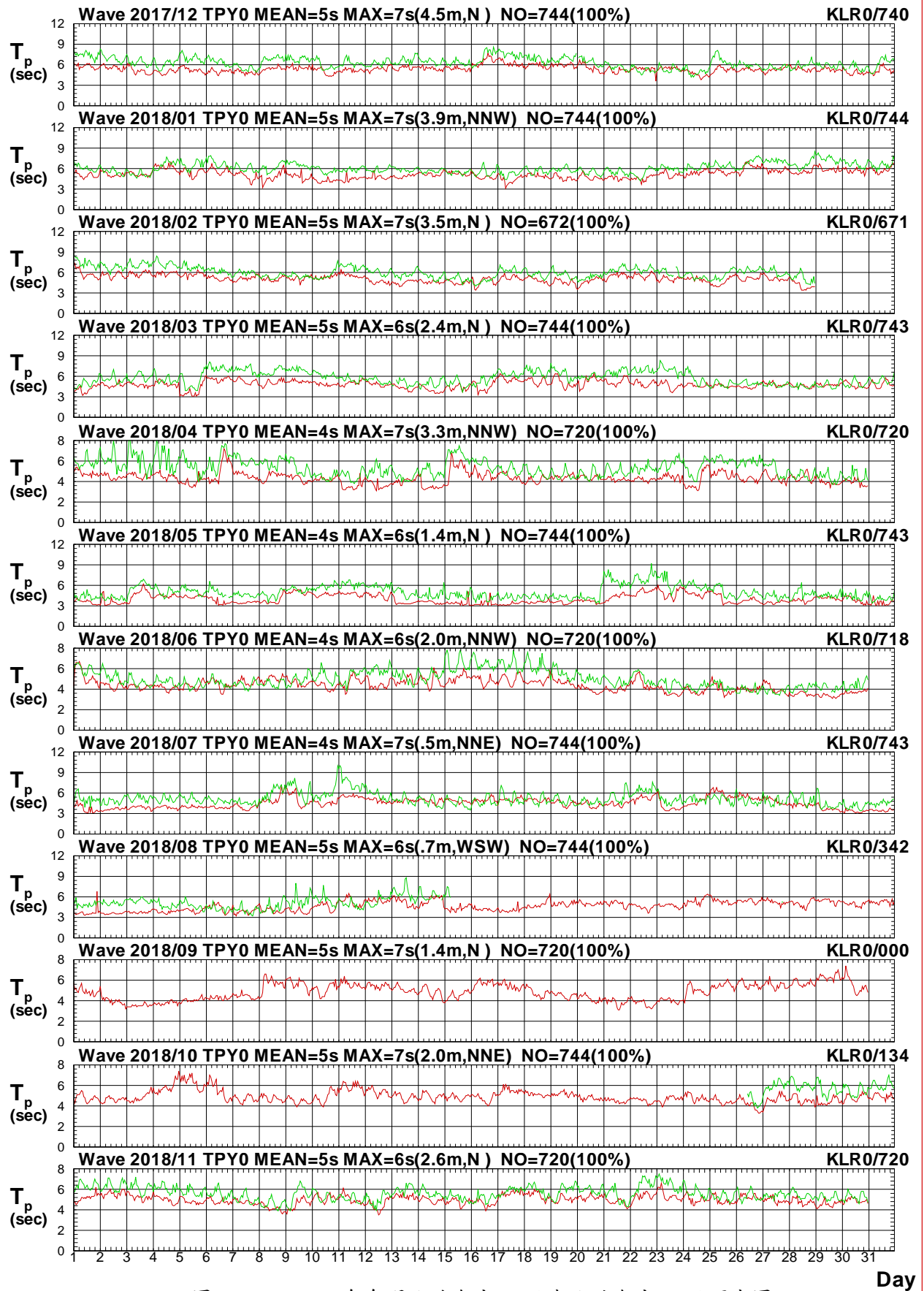


圖2.4.5b 2018年每月北苗海域 Y 站與北端海域 R 站週期圖

V17CTPY0.1HA V17CKLR0.1HO V181TPY0.1HA V181KLR0.1HO V182TPY0.1HA V182KLR0.1HO  
 V183TPY0.1HA V183KLR0.1HO V184TPY0.1HA V184KLR0.1HO V185TPY0.1HA V185KLR0.1HO

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# Wave Direction in Tai-Pei Harbor of TPY0 at 2018

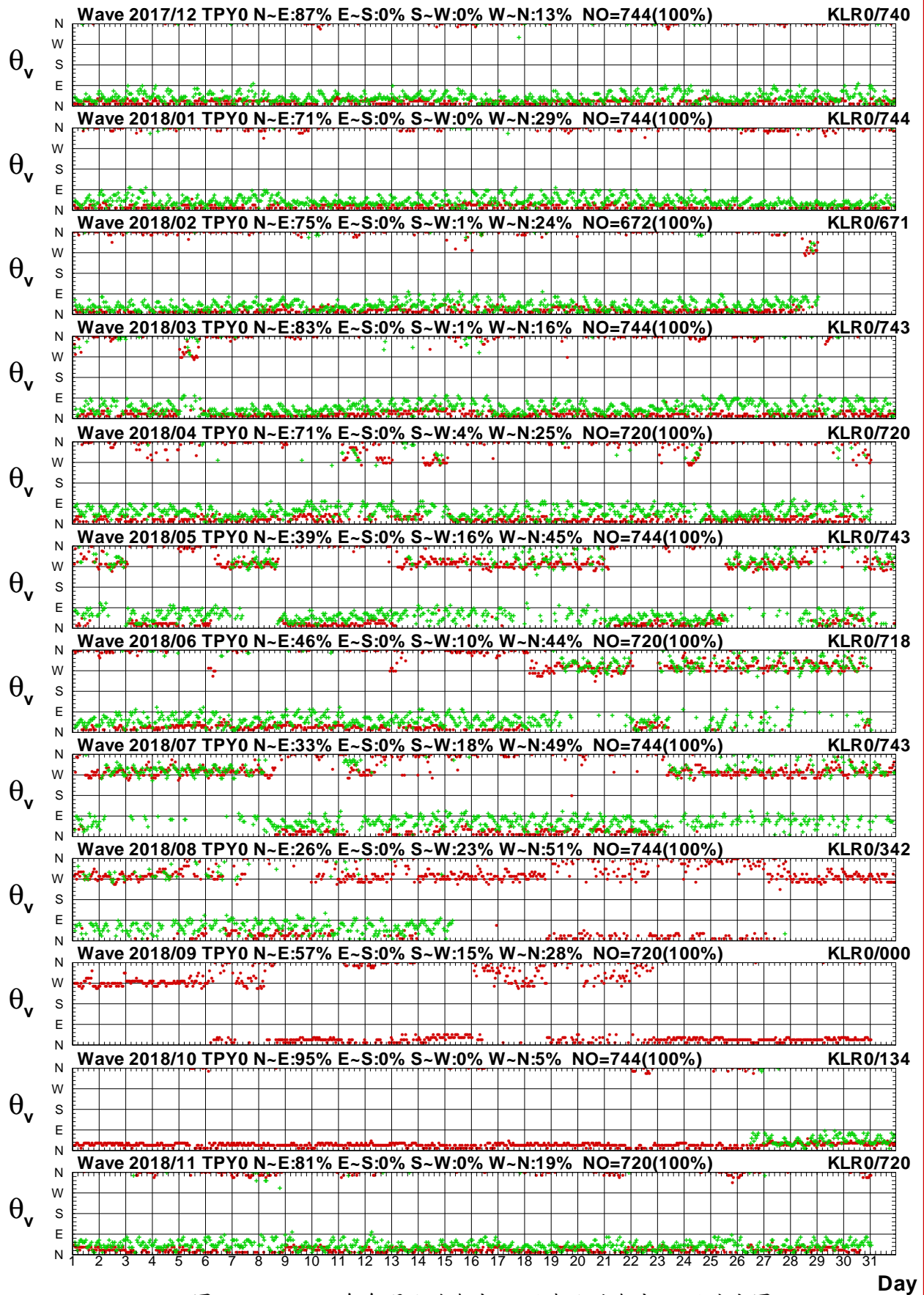


圖2.4.5c 2018年每月北苗海域 Y 站與北端海域 R 站波向圖

V17CTPY0.1HA V17CKLR0.1H0 V181TPY0.1HA V181KLR0.1H0 V182TPY0.1HA V182KLR0.1H0  
 V183TPY0.1HA V183KLR0.1H0 V184TPY0.1HA V184KLR0.1H0 V185TPY0.1HA V185KLR0.1H0

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# Wave $H_s$ in Tai-Pei Harbor of TPY0 at 2018

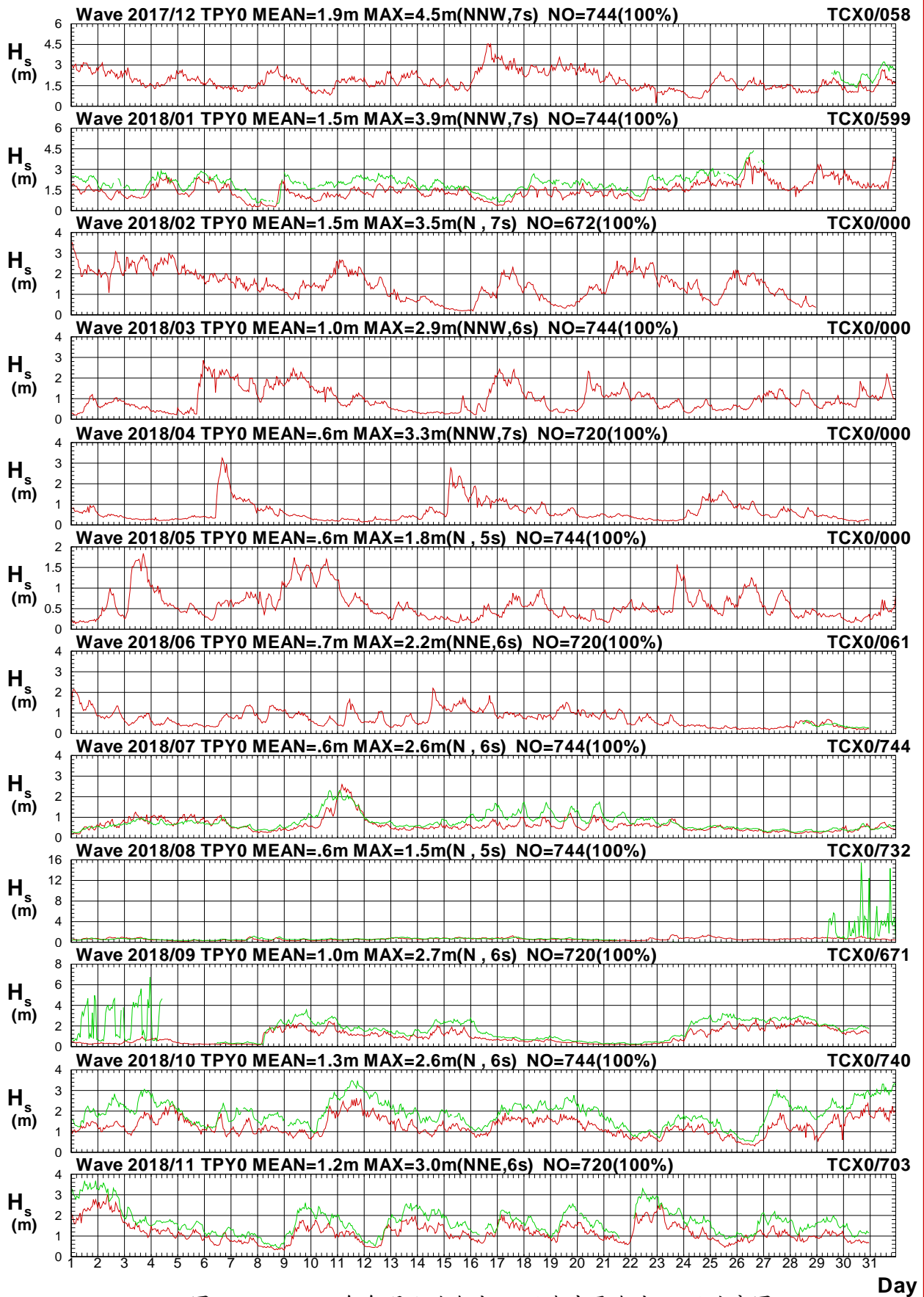


圖2.4.6a 2018年每月北苗海域 Y 站與中雲海域 X 站波高圖

V17CTPY0.1HA V17CTCX0.1HO V181TPY0.1HA V181TCX0.1HO V182TPY0.1HA V182TCX0.1HO  
 V183TPY0.1HA V183TCX0.1HO V184TPY0.1HA V184TCX0.1HO V185TPY0.1HA V185TCX0.1HO

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# Wave $T_p$ in Tai-Pei Harbor of TPY0 at 2018

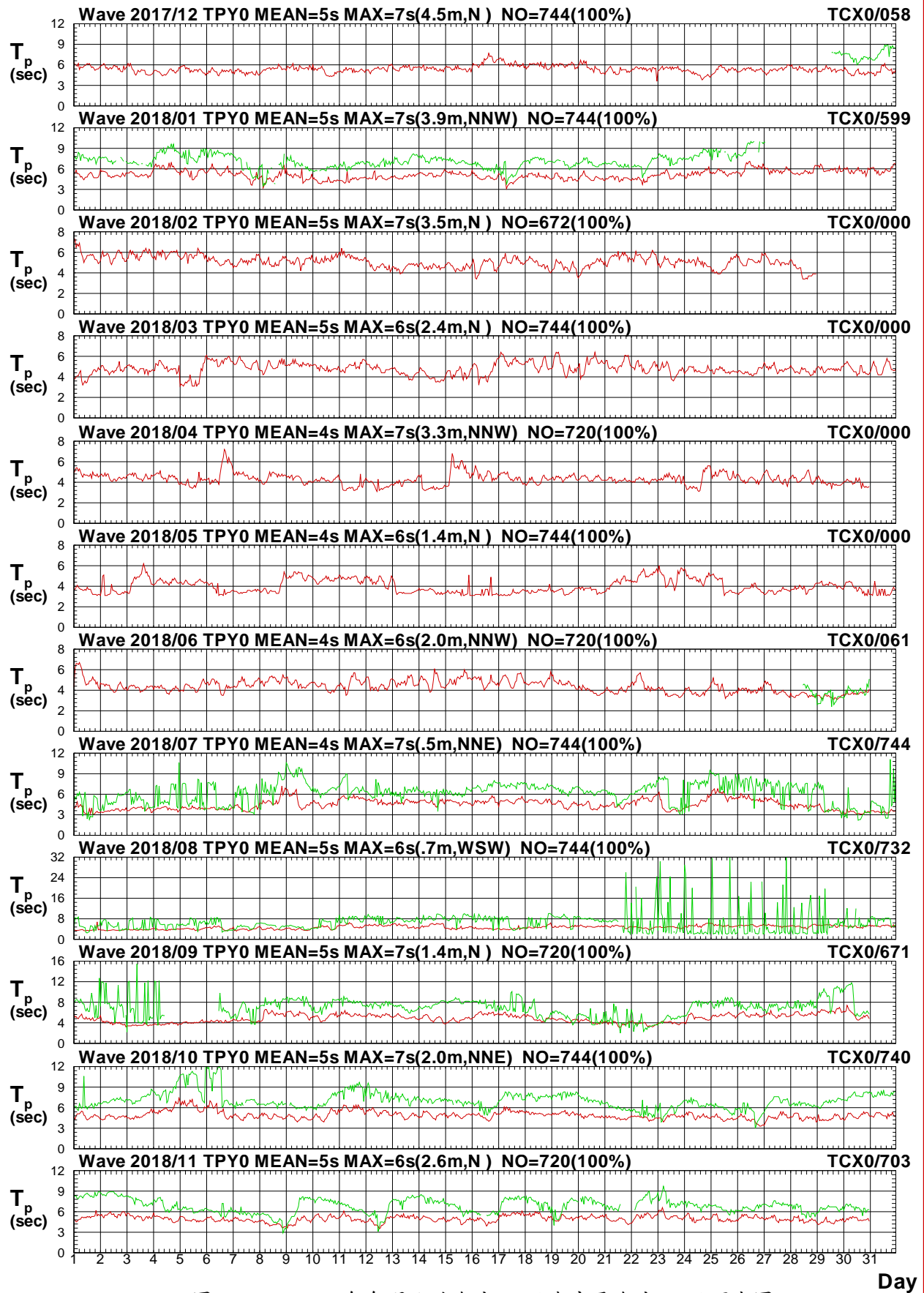


圖2.4.6b 2018年每月北苗海域 Y 站與中雲海域 X 站週期圖

V17CTPY0.1HA V17CTCX0.1HO V181TPY0.1HA V181TCX0.1HO V182TPY0.1HA V182TCX0.1HO  
 V183TPY0.1HA V183TCX0.1HO V184TPY0.1HA V184TCX0.1HO V185TPY0.1HA V185TCX0.1HO

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# Wave Direction in Tai-Pei Harbor of TPY0 at 2018

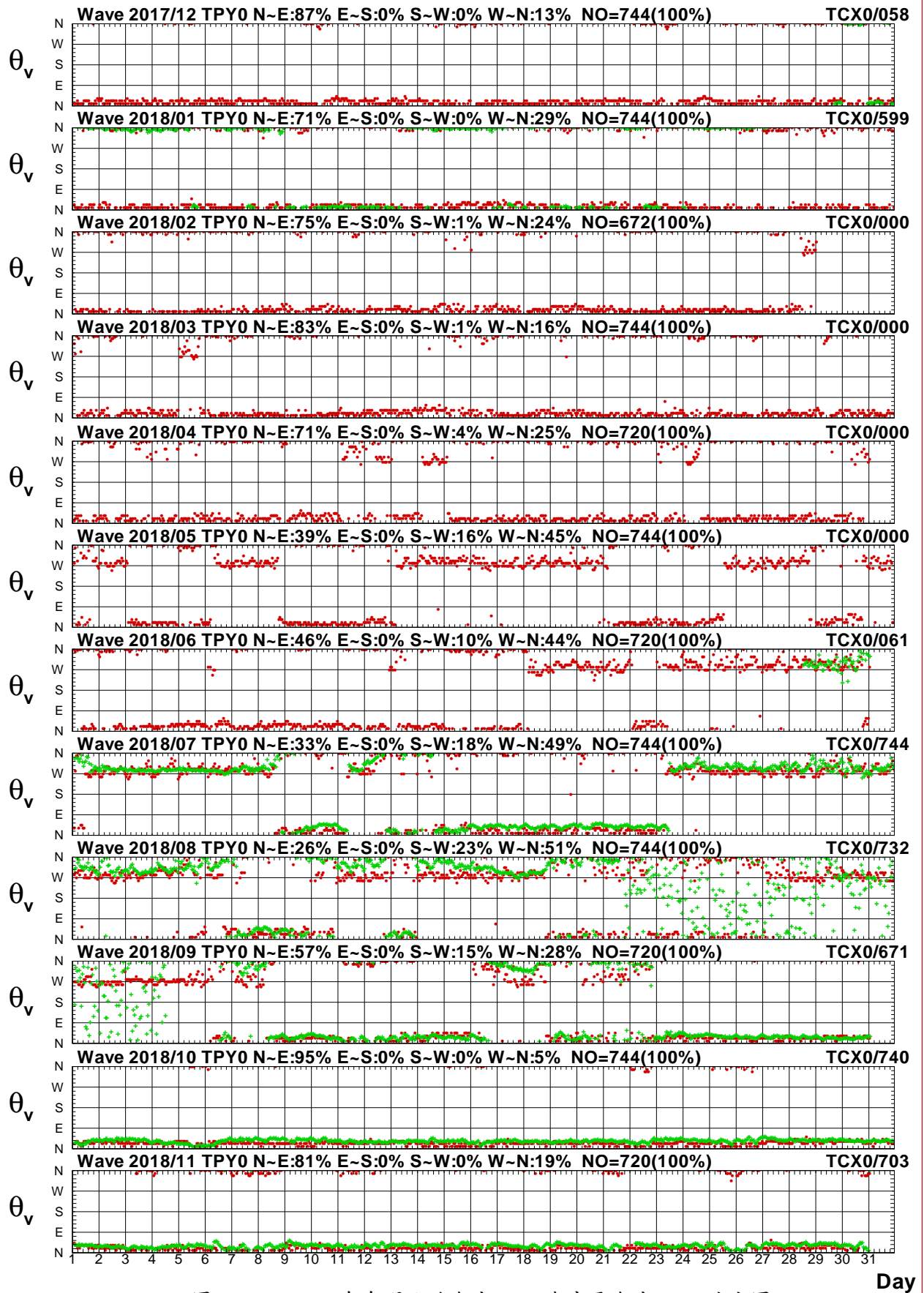


圖2.4.6c 2018年每月北苗海域 Y 站與中雲海域 X 站波向圖

V17CTPY0.1HA V17CTCX0.1H0 V181TPY0.1HA V181TCX0.1H0 V182TPY0.1HA V182TCX0.1H0  
 V183TPY0.1HA V183TCX0.1H0 V184TPY0.1HA V184TCX0.1H0 V185TPY0.1HA V185TCX0.1H0

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# Wave $H_s$ in Tai-Pei Harbor of TPY0 at 2018

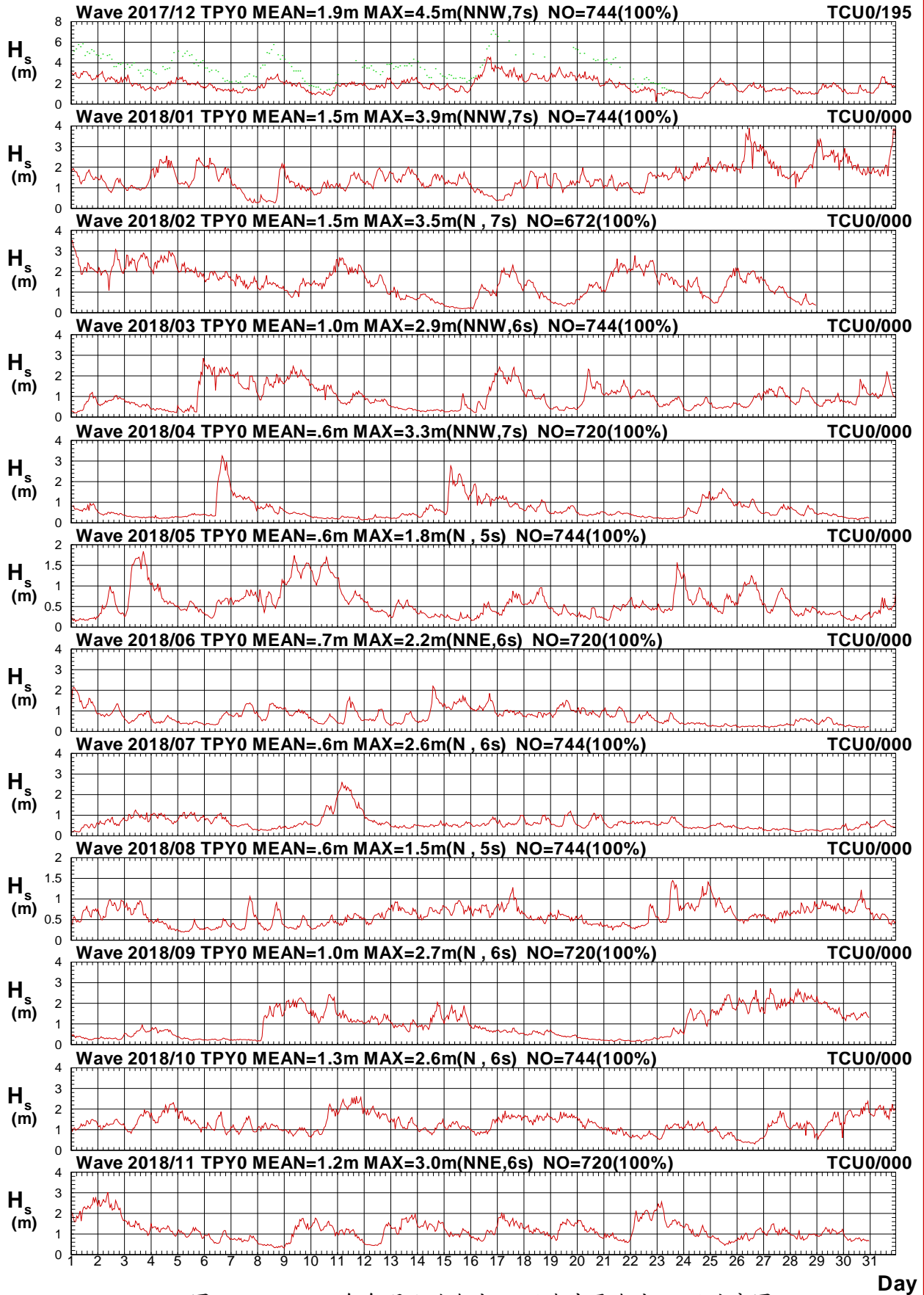


圖2.4.7a 2018年每月北苗海域 Y 站與中雲海域 U 站波高圖

V17CTPY0.1HA V17CTCU0.1H0 V181TPY0.1HA V181TCU0.1H0 V182TPY0.1HA V182TCU0.1H0  
 V183TPY0.1HA V183TCU0.1H0 V184TPY0.1HA V184TCU0.1H0 V185TPY0.1HA V185TCU0.1H0

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# Wave $T_p$ in Tai-Pei Harbor of TPY0 at 2018

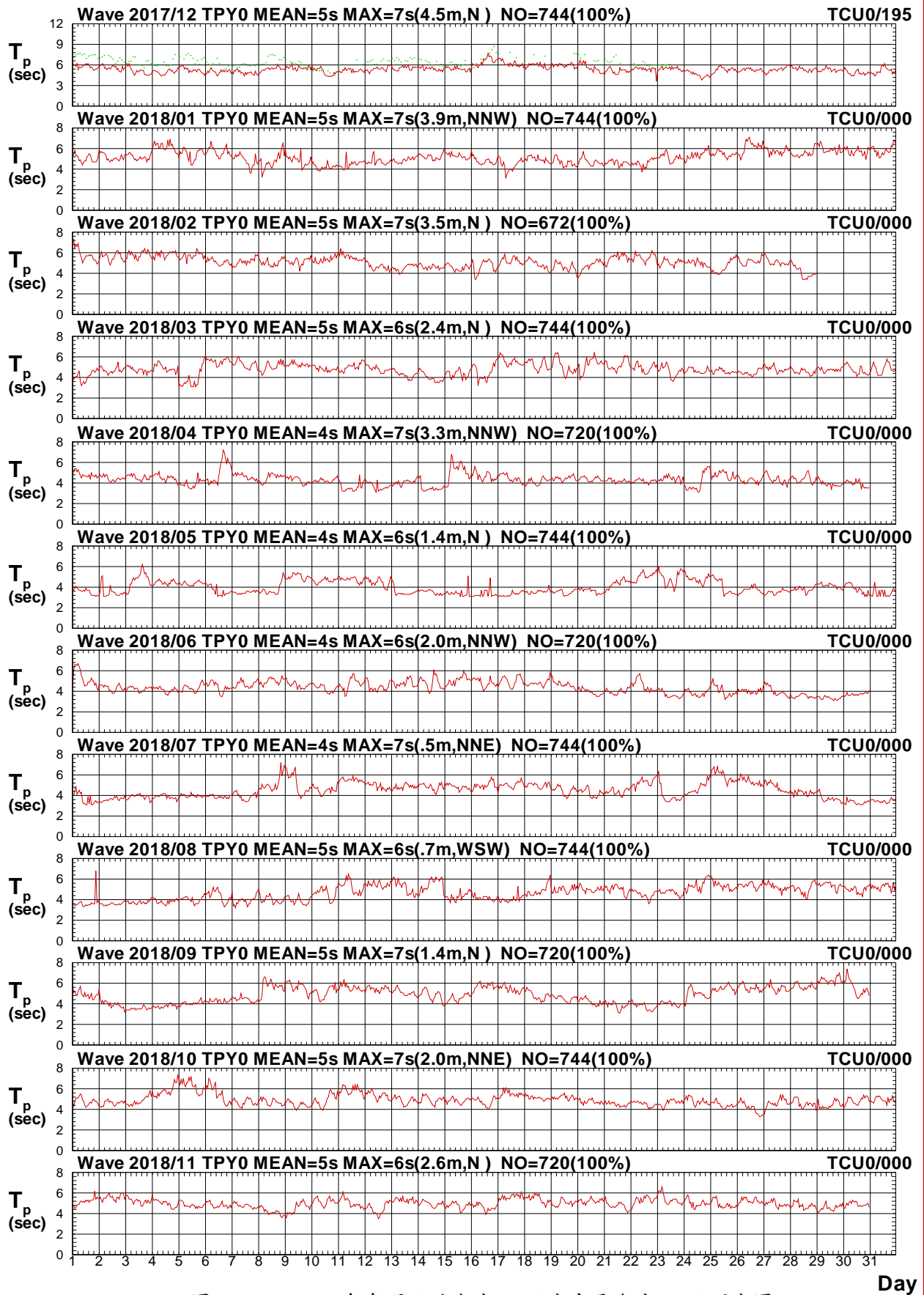


圖2.4.7b 2018年每月北苗海域 Y 站與中雲海域 U 站週期圖

V17CTPY0.1HA V17CTCU0.1H0 V181TPY0.1HA V181TCU0.1H0 V182TPY0.1HA V182TCU0.1H0  
 V183TPY0.1HA V183TCU0.1H0 V184TPY0.1HA V184TCU0.1H0 V185TPY0.1HA V185TCU0.1H0

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# Wave Direction in Tai-Pei Harbor of TPY0 at 2018

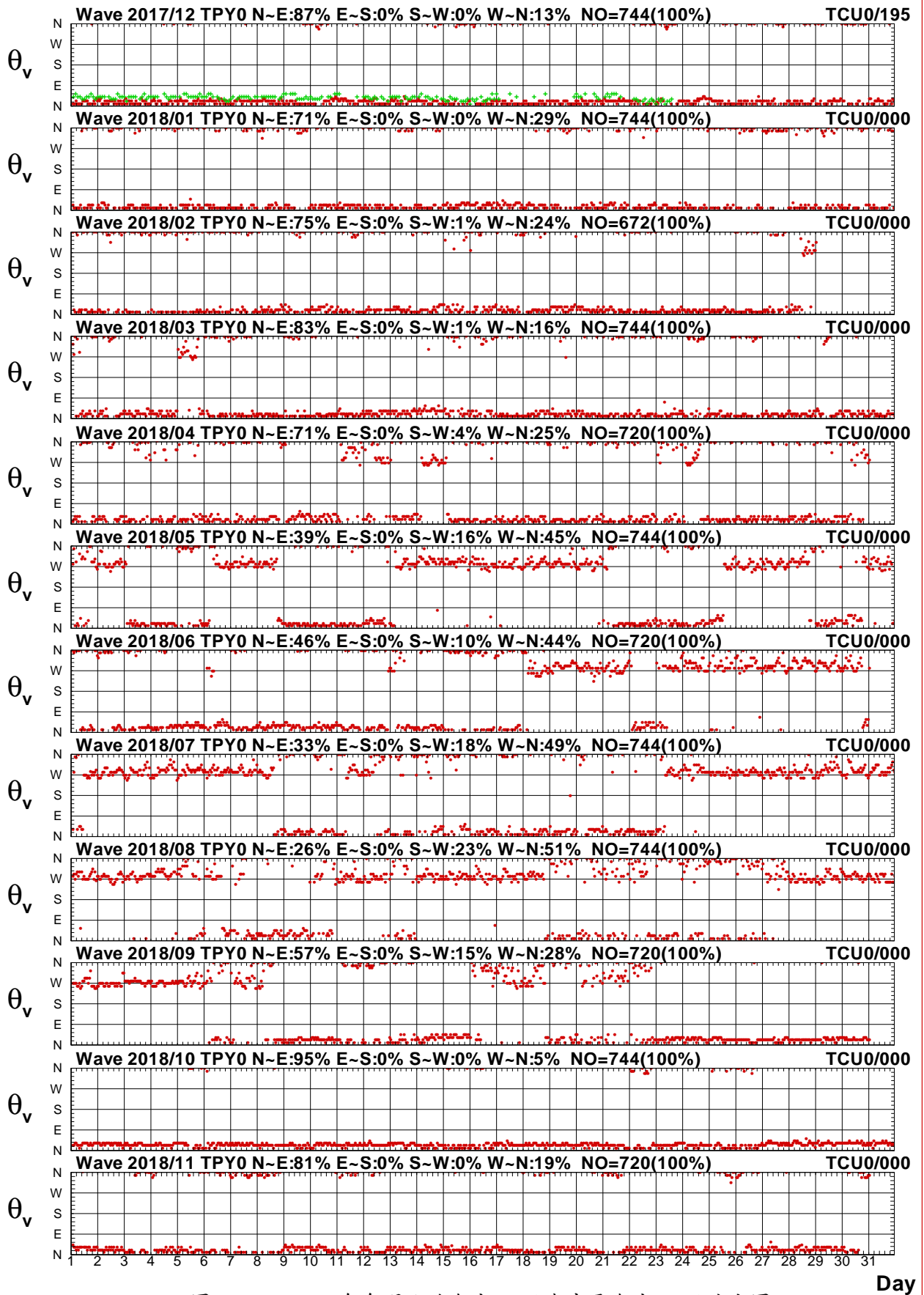


圖2.4.7c 2018年每月北苗海域 Y 站與中雲海域 U 站波向圖

V17CTPY0.1HA V17CTCU0.1HO V181TPY0.1HA V181TCU0.1HO V182TPY0.1HA V182TCU0.1HO  
 V183TPY0.1HA V183TCU0.1HO V184TPY0.1HA V184TCU0.1HO V185TPY0.1HA V185TCU0.1HO

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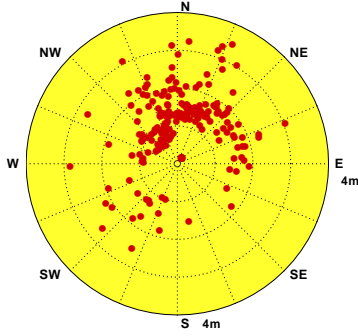
## 2.5 2018 年北苗海域波浪各測站修補前 波浪向量分佈圖



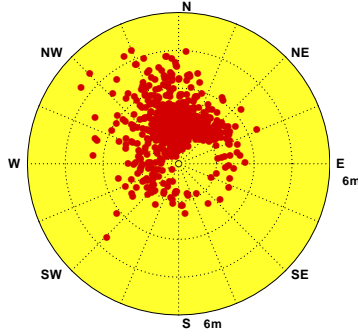


# Distribution of $H_s$ Vectors

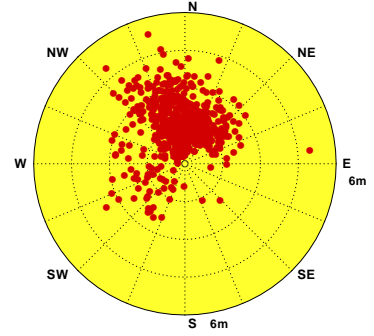
Wave of TPX0 at 2017/12 NO=211(28%)  
Hs : MEAN=1.4m MAX=3.3m(NNE,10s)  
N-E:40% E-S:5% S-W:10% W-N:45%



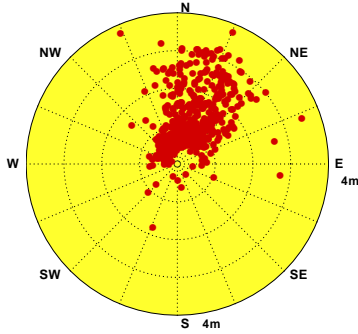
Wave of TPX0 at 2018/01 NO=713(96%)  
Hs : MEAN=1.7m MAX=5.0m(NW,10s)  
N-E:31% E-S:2% S-W:9% W-N:58%



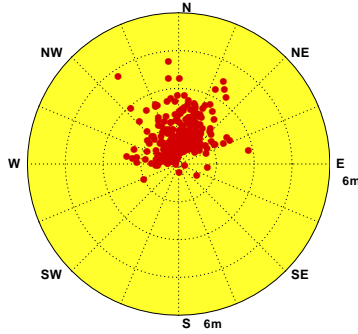
Wave of TPX0 at 2018/02 NO=640(95%)  
Hs : MEAN=1.7m MAX=5.2m(NNW,11s)  
N-E:28% E-S:1% S-W:7% W-N:64%



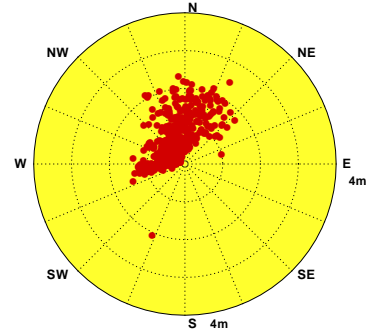
Wave of TPX0 at 2018/03 NO=632(85%)  
Hs : MEAN=1.1m MAX=3.7m(NNW,7s)  
N-E:59% E-S:1% S-W:3% W-N:37%



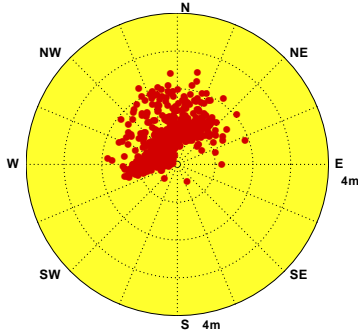
Wave of TPX0 at 2018/04 NO=698(97%)  
Hs : MEAN=.8m MAX=4.1m(NW,8s)  
N-E:26% E-S:0% S-W:7% W-N:67%



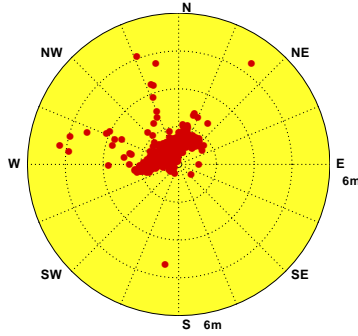
Wave of TPX0 at 2018/05 NO=719(97%)  
Hs : MEAN=.7m MAX=2.3m(NNE,7s)  
N-E:12% E-S:0% S-W:31% W-N:57%



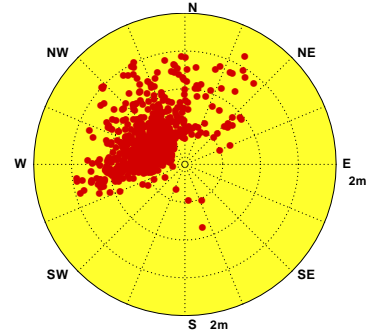
Wave of TPX0 at 2018/06 NO=710(99%)  
Hs : MEAN=.9m MAX=2.3m(N, 8s)  
N-E:21% E-S:0% S-W:29% W-N:50%



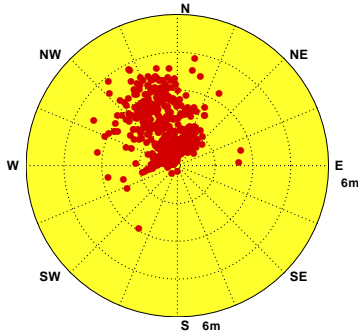
Wave of TPX0 at 2018/07 NO=734(99%)  
Hs : MEAN=.8m MAX=4.9m(W, 8s)  
N-E:15% E-S:0% S-W:36% W-N:49%



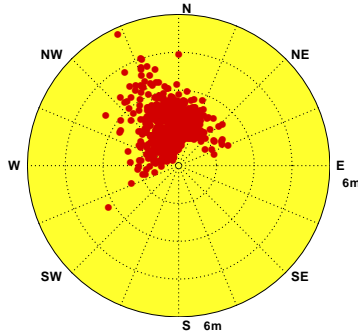
Wave of TPX0 at 2018/08 NO=741(100%)  
Hs : MEAN=.7m MAX=1.5m(NNE,6s)  
N-E:5% E-S:0% S-W:29% W-N:66%



Wave of TPX0 at 2018/09 NO=691(96%)  
Hs : MEAN=1.2m MAX=4.3m(NW,9s)  
N-E:12% E-S:0% S-W:13% W-N:75%



Wave of TPX0 at 2018/10 NO=692(93%)  
Hs : MEAN=1.5m MAX=5.6m(NNW,10s)  
N-E:26% E-S:0% S-W:36% W-N:71%



Wave of TPX0 at 2018/11 NO=709(98%)  
Hs : MEAN=1.4m MAX=4.9m(S, 8s)  
N-E:34% E-S:1% S-W:6% W-N:59%

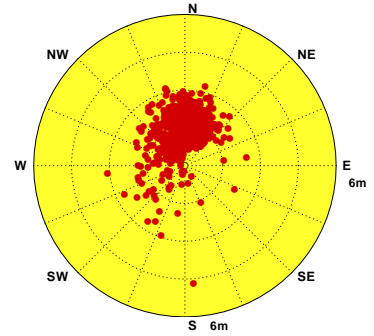


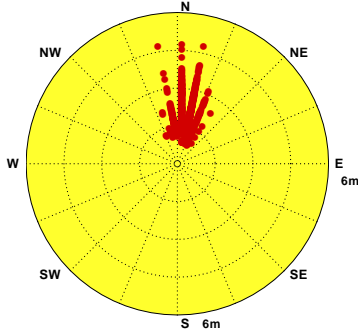
圖2.5.1 2018年北苗海域每月 X 站修補前觀測波高向量分佈圖

V17CTPX0.1H0 V181TPX0.1H0 V182TPX0.1H0 V183TPX0.1H0 V184TPX0.1H0 V185TPX0.1H0  
V186TPX0.1H0 V187TPX0.1H0 V188TPX0.1H0 V189TPX0.1H0 V18ATPX0.1H0 V18BTPX0.1H0

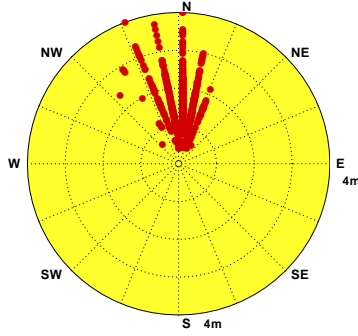
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# Distribution of $H_s$ Vectors

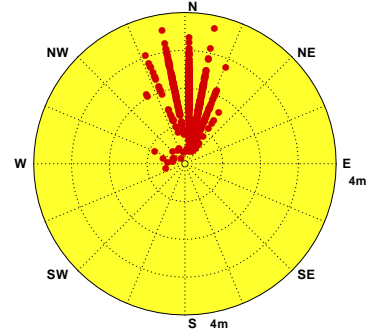
Wave of TPY0 at 2017/12 NO=740(99%)  
 Hs : MEAN=1.9m MAX=4.5m(NNW,7s)  
 N-E:87% E-S:0% S-W:0% W-N:13%



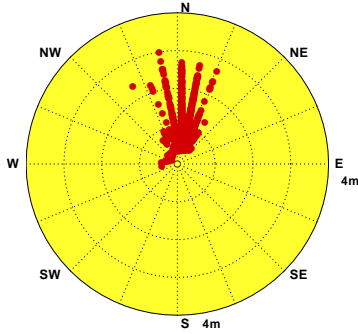
Wave of TPY0 at 2018/01 NO=729(98%)  
 Hs : MEAN=1.5m MAX=3.9m(NNW,7s)  
 N-E:71% E-S:0% S-W:0% W-N:29%



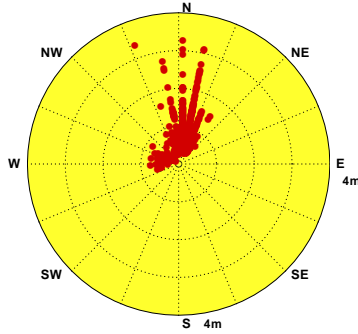
Wave of TPY0 at 2018/02 NO=660(98%)  
 Hs : MEAN=1.5m MAX=3.5m(N, 7s)  
 N-E:77% E-S:0% S-W:1% W-N:22%



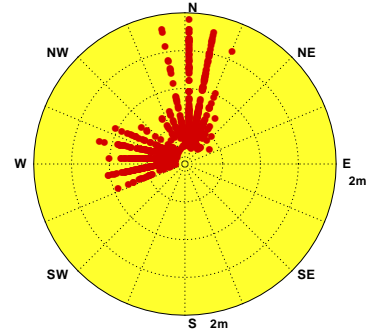
Wave of TPY0 at 2018/03 NO=730(98%)  
 Hs : MEAN=1.0m MAX=2.9m(NNW,6s)  
 N-E:83% E-S:0% S-W:1% W-N:16%



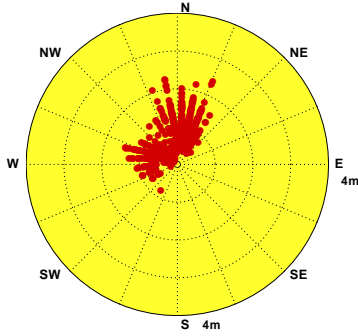
Wave of TPY0 at 2018/04 NO=710(99%)  
 Hs : MEAN=.6m MAX=3.3m(NNW,7s)  
 N-E:72% E-S:0% S-W:4% W-N:24%



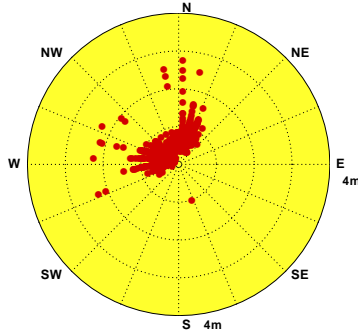
Wave of TPY0 at 2018/05 NO=713(96%)  
 Hs : MEAN=.6m MAX=1.8m(N, 5s)  
 N-E:41% E-S:0% S-W:14% W-N:45%



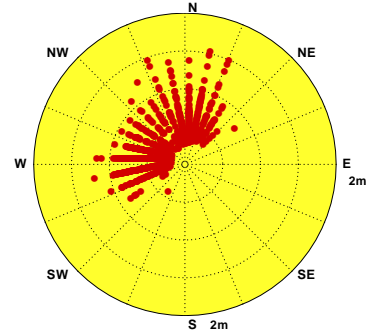
Wave of TPY0 at 2018/06 NO=718(100%)  
 Hs : MEAN=.7m MAX=2.2m(NNE,6s)  
 N-E:47% E-S:0% S-W:9% W-N:44%



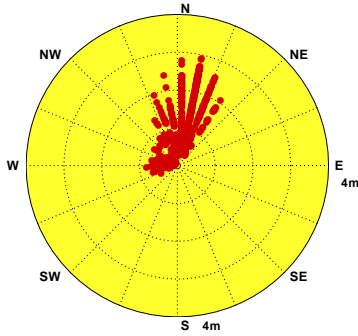
Wave of TPY0 at 2018/07 NO=734(99%)  
 Hs : MEAN=.6m MAX=2.6m(N, 6s)  
 N-E:33% E-S:0% S-W:18% W-N:49%



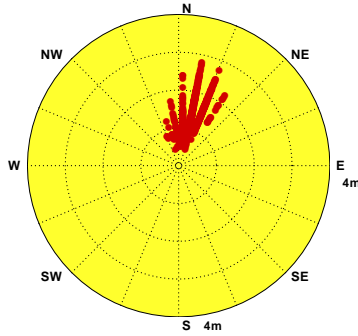
Wave of TPY0 at 2018/08 NO=740(99%)  
 Hs : MEAN=.6m MAX=1.5m(N, 5s)  
 N-E:26% E-S:0% S-W:23% W-N:51%



Wave of TPY0 at 2018/09 NO=720(100%)  
 Hs : MEAN=1.0m MAX=2.7m(N, 6s)  
 N-E:57% E-S:0% S-W:15% W-N:28%



Wave of TPY0 at 2018/10 NO=739(99%)  
 Hs : MEAN=1.3m MAX=2.6m(N, 6s)  
 N-E:95% E-S:0% S-W:0% W-N:5%



Wave of TPY0 at 2018/11 NO=715(99%)  
 Hs : MEAN=1.2m MAX=3.0m(NNE,6s)  
 N-E:81% E-S:0% S-W:0% W-N:19%

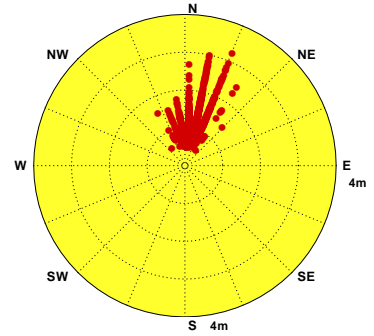


圖2.5.2 2018年北苗海域每月 Y 站修補前觀測波高向量分佈圖

V17CTPY0.1H0 V181TPY0.1H0 V182TPY0.1H0 V183TPY0.1H0 V184TPY0.1H0 V185TPY0.1H0  
 V186TPY0.1H0 V187TPY0.1H0 V188TPY0.1H0 V189TPY0.1H0 V18ATPY0.1H0 V18BTPY0.1H0

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## 第三章 2018 年北苗海域觀測潮汐資料年報

北苗海域(新北~苗栗)潮汐之觀測包括測站 **T**、測站 **X**、測站 **F**、測站 **S**、測站 **K**、測站 **M**、測站 **O**、測站 **P** 及測站 **Q** 等 9 個測站(測站位置如第 0 章圖 TP1)。測站 **T** 與測站 **F**、測站 **X**、測站 **S**、測站 **K**、測站 **M** 及測站 **O** 等 6 個測站特性相近，而測站 **Q** 與測站 **P** 兩站特性相近。本年報取經檢核及補遺之測站 **T** 資料作為**主要測站 1**，測站 **Q** 資料作為**主要測站 2**，測站 **F** 資料作為**主要測站 3**。

### 3.1 2018 年北苗海域觀測潮汐資料年報圖表

本章第 1 節**潮汐**年報資料處理之圖表包括：

1. 表 3.1.1a 2018 年**各觀測站**每月**觀測潮汐**資料**修補前**記錄表。
2. 表 3.1.1b 2018 年**主要測站**每月**觀測潮汐**資料**修補後**記錄表。
3. 表 3.1.2 2018 年**主要測站 1** **修補後**每月(季)及整年觀測潮位、潮差及週期重要統計量統計表。
4. 表 3.1.3 2018 年**主要測站 2** **修補後**每月(季)及整年觀測潮位、潮差及週期重要統計量統計表。
5. 表 3.1.4 2018 年**主要測站 3** **修補後**每月(季)及整年觀測潮位、潮差及週期重要統計量統計表。
6. 圖 3.1.1 2018 年**主要測站 1** **修補前後**每月觀測潮位歷線比較圖。
7. 圖 3.1.2 2018 年**主要測站 1** **修補後**每月觀測潮位及計算天文潮位歷線比較圖。
8. 圖 3.1.3 2018 年**主要測站 2** **修補前後**每月觀測潮位歷線比較圖。

9. 圖 3.1.4 2018 年**主要測站 2 修補後**每月觀測潮位及計算天文潮位歷線比較圖。

10. 圖 3.1.5 2018 年**主要測站 3 修補前後**每月觀測潮位歷線比較圖。

11. 圖 3.1.6 2018 年**主要測站 3 修補後**每月觀測潮位及計算天文潮位歷線比較圖。

第 2 節潮汐年報資料處理之圖表包括: 2018 年北苗海域**各測站修補前**每月(季)及整年潮位、潮差及週期重要統計量統計表。

第 3 節潮汐年報資料處理之統計圖包括: 2018 年北苗海域**主要測站 1 修補後與其他測站(修補前)**每月觀測潮位歷線比較圖。

第 4 節潮汐年報資料處理之統計圖包括: 2018 年北苗海域**主要測站 2 修補後與其他測站(修補前)**每月觀測潮位歷線比較圖。

第 5 節潮汐年報資料處理之統計圖包括: 2018 年北苗海域**主要測站 3 修補後與其他測站(修補前)**每月觀測潮位歷線比較圖。

表 3.1.1a 2018年每月北苗海域修補前各測站觀測潮汐資料紀錄表

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	北苗海域	北苗海域	北苗海域	北苗海域	北苗海域
年月/測站	T	Q	F	K	M	X	P	O	S	J		
2017/12月	*	558(75.0%)	566(76.1%)	560(75.3%)	565(75.9%)	200(26.9%)	562(75.5%)	565(75.9%)	*	*	*	*
2018/ 1月	598(80.4%)	703(94.5%)	710(95.4%)	712(95.7%)	709(95.3%)	713(95.8%)	708(95.2%)	672(90.3%)	*	*	*	*
2018/ 2月	476(70.8%)	651(96.9%)	654(97.3%)	654(97.3%)	631(93.9%)	640(95.2%)	655(97.5%)	631(93.9%)	*	*	*	*
2018/ 3月	700(94.1%)	707(95.0%)	708(95.2%)	708(95.2%)	683(91.8%)	632(84.9%)	704(94.6%)	683(91.8%)	*	*	*	*
2018/ 4月	658(91.4%)	693(96.3%)	691(96.0%)	693(96.3%)	692(96.1%)	698(96.9%)	692(96.1%)	692(96.1%)	*	*	*	*
2018/ 5月	697(93.7%)	462(62.1%)	444(59.7%)	456(61.3%)	458(61.6%)	719(96.6%)	465(62.5%)	458(61.6%)	*	*	*	*
2018/ 6月	681(94.6%)	684(95.0%)	683(94.9%)	682(94.7%)	680(94.4%)	710(98.6%)	682(94.7%)	680(94.4%)	*	*	*	*
2018/ 7月	706(94.9%)	693(93.1%)	650(87.4%)	707(95.0%)	690(92.7%)	734(98.7%)	668(89.8%)	690(92.7%)	*	*	*	*
2018/ 8月	431(57.9%)	723(97.2%)	723(97.2%)	703(94.5%)	721(96.9%)	741(99.6%)	722(97.0%)	721(96.9%)	*	*	*	*
2018/ 9月	159(22.1%)	664(92.2%)	666(92.5%)	667(92.6%)	649(90.1%)	691(96.0%)	664(92.2%)	649(90.1%)	13( 1.8%)	*	*	*
2018/10月	350(47.0%)	742(99.7%)	673(90.5%)	741(99.6%)	405(54.4%)	692(93.0%)	743(99.9%)	403(54.2%)	733(98.5%)	*	*	*
2018/11月	683(94.9%)	668(92.8%)	672(93.3%)	671(93.2%)	461(64.0%)	711(98.8%)	672(93.3%)	459(63.8%)	712(98.9%)	*	*	*
2018/冬季	1074(49.7%)	1912(88.5%)	1930(89.4%)	1926(89.2%)	1905(88.2%)	1553(71.9%)	1925(89.1%)	1868(86.5%)	*	*	*	*
2018/春季	2055(93.1%)	1862(84.3%)	1843(83.5%)	1857(84.1%)	1833(83.0%)	2049(92.8%)	1861(84.3%)	1833(83.0%)	*	*	*	*
2018/夏季	1818(82.3%)	2100(95.1%)	2056(93.1%)	2092(94.7%)	2091(94.7%)	2185(99.0%)	2072(93.8%)	2091(94.7%)	*	*	*	*
2018/秋季	1192(54.6%)	2074(95.0%)	2011(92.1%)	2079(95.2%)	1515(69.4%)	2094(95.9%)	2079(95.2%)	1511(69.2%)	1458(66.8%)	*	*	*
2018/整年	6139(70.1%)	7948(90.7%)	7840(89.5%)	7954(90.8%)	7344(83.8%)	7881(90.0%)	7937(90.6%)	7303(83.4%)	1458(16.6%)	*	*	*
起始年月	2018/01	2017/12	2017/12	2017/12	2017/12	2017/12	2017/12	2017/12	2017/12	2018/09	*	*
結束年月	2018/11	2018/11	2018/11	2018/11	2018/11	2018/11	2018/11	2018/11	2018/11	2018/11	*	*

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表 3.1.1b 2018年每月北苗海域修補後各測站潮汐資料紀錄表

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	北苗海域	北苗海域	北苗海域	北苗海域	北苗海域
年月/測站	T	Q	F									
2017/12月	744(100%)	744(100%)	744(100%)	*	*	*	*	*	*	*	*	*
2018/ 1月	744(100%)	744(100%)	744(100%)	*	*	*	*	*	*	*	*	*
2018/ 2月	672(100%)	672(100%)	672(100%)	*	*	*	*	*	*	*	*	*
2018/ 3月	744(100%)	744(100%)	744(100%)	*	*	*	*	*	*	*	*	*
2018/ 4月	720(100%)	720(100%)	720(100%)	*	*	*	*	*	*	*	*	*
2018/ 5月	744(100%)	744(100%)	744(100%)	*	*	*	*	*	*	*	*	*
2018/ 6月	720(100%)	720(100%)	720(100%)	*	*	*	*	*	*	*	*	*
2018/ 7月	744(100%)	744(100%)	744(100%)	*	*	*	*	*	*	*	*	*
2018/ 8月	744(100%)	744(100%)	744(100%)	*	*	*	*	*	*	*	*	*
2018/ 9月	720(100%)	720(100%)	720(100%)	*	*	*	*	*	*	*	*	*
2018/10月	744(100%)	744(100%)	744(100%)	*	*	*	*	*	*	*	*	*
2018/11月	720(100%)	720(100%)	720(100%)	*	*	*	*	*	*	*	*	*
2018/冬季	2160(100%)	2160(100%)	2160(100%)	*	*	*	*	*	*	*	*	*
2018/春季	2208(100%)	2208(100%)	2208(100%)	*	*	*	*	*	*	*	*	*
2018/夏季	2208(100%)	2208(100%)	2208(100%)	*	*	*	*	*	*	*	*	*
2018/秋季	2184(100%)	2184(100%)	2184(100%)	*	*	*	*	*	*	*	*	*
2018/整年	8760(100%)	8760(100%)	8760(100%)	*	*	*	*	*	*	*	*	*
起始年月	2017/12	2017/12	2017/12	*	*	*	*	*	*	*	*	*
結束年月	2018/11	2018/11	2018/11	*	*	*	*	*	*	*	*	*

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表3.1.2 2018年北苗海域主要測站1修補後潮差週期及潮位重要統計量統計表

序號	日期 (年/月)	測站	平均潮差 (公分)	最大潮差 (公分)	1/3潮差 (公分)	1/10潮差 (公分)	平均週期 (時)	最大週期 (時)	1/3週期 (時)	1/10週期 (時)	潮差個數 (個)	平均潮位 (公分)	最高潮位 (公分)	最低潮位 (公分)	水位點數 (個)
1	2017/12	T	221	373	287	342	12.4	13.0	13.0	13.0	59	-350	-176	-559	744(100%)
2	2018/01	T	204	357	273	336	12.4	13.0	13.0	13.0	59	317	489	116	744(100%)
3	2018/02	T	221	330	278	319	12.4	14.0	13.1	13.4	53	335	529	155	672(100%)
4	2018/03	T	232	318	286	310	12.4	13.0	13.0	13.0	59	312	473	152	744(100%)
5	2018/04	T	233	319	286	308	12.4	13.0	13.0	13.0	57	299	457	129	720(100%)
6	2018/05	T	230	340	291	327	12.4	13.0	13.0	13.0	59	306	469	129	744(100%)
7	2018/06	T	230	364	293	349	12.4	13.0	13.0	13.0	57	311	484	121	720(100%)
8	2018/07	T	236	355	288	337	12.4	13.0	13.0	13.0	59	322	492	127	744(100%)
9	2018/08	T	227	336	282	320	12.6	26.0	13.7	15.6	58	263	437	17	744(100%)
10	2018/09	T	230	312	279	307	12.4	14.0	13.1	13.4	57	374	587	183	720(100%)
11	2018/10	T	225	341	296	318	12.7	25.0	13.7	15.8	58	320	498	140	744(100%)
12	2018/11	T	244	321	298	316	12.7	26.0	13.7	15.6	56	327	508	140	720(100%)
13	2018/冬	T	215	373	278	329	12.4	14.0	13.0	13.1	171	93	529	-559	2160(100%)
14	2018/春	T	232	340	288	313	12.4	13.0	13.0	13.0	175	306	473	129	2208(100%)
15	2018/夏	T	231	364	287	333	12.5	26.0	13.2	13.8	174	299	492	17	2208(100%)
16	2018/秋	T	233	341	292	313	12.6	26.0	13.5	14.7	171	340	587	140	2184(100%)
17	2018/年	T	228	373	288	322	12.5	26.0	13.2	13.6	691	260	587	-559	8760(100%)

表3.1.3 2018年北苗海域主要測站2修補後潮差週期及潮位重要統計量統計表

序號	日期 (年/月)	測站	平均 潮差 (公分)	最大 潮差 (公分)	1/3 潮差 (公分)	1/10 潮差 (公分)	平均 週期 (時)	最大 週期 (時)	1/3 週期 (時)	1/10 週期 (時)	潮差 個數 (個)	平均 潮位 (公分)	最高 潮位 (公分)	最低 潮位 (公分)	水位 點數 (個)
1	2017/12	Q	346	572	410	493	12.6	26.0	13.7	15.8	58	-385	-88	-695	744(100%)
2	2018/01	Q	343	458	398	439	12.8	25.0	14.8	18.4	57	-387	-95	-622	744(100%)
3	2018/02	Q	354	438	410	429	12.9	25.0	14.5	18.0	51	-426	-169	-627	672(100%)
4	2018/03	Q	364	493	432	457	12.6	24.0	13.6	15.2	58	-422	-138	-656	744(100%)
5	2018/04	Q	360	452	429	444	12.4	13.0	13.0	13.0	57	-424	-187	-649	720(100%)
6	2018/05	Q	348	460	424	455	12.4	13.0	13.0	13.0	59	-427	-195	-670	744(100%)
7	2018/06	Q	357	490	430	476	12.4	13.0	13.0	13.0	57	-420	-170	-663	720(100%)
8	2018/07	Q	366	491	440	486	12.4	13.0	13.0	13.0	59	-398	-147	-647	744(100%)
9	2018/08	Q	374	516	451	497	12.4	13.0	13.0	13.0	59	-390	-130	-647	744(100%)
10	2018/09	Q	377	494	454	481	12.4	14.0	13.1	13.2	57	-397	-148	-641	720(100%)
11	2018/10	Q	377	480	448	472	12.4	13.0	13.0	13.0	59	-412	-159	-647	744(100%)
12	2018/11	Q	367	457	438	451	12.4	14.0	13.1	13.2	57	-414	-172	-684	720(100%)
13	2018/冬	Q	348	572	408	452	12.8	26.0	14.3	17.5	166	-398	-88	-695	2160(100%)
14	2018/春	Q	357	493	429	451	12.5	24.0	13.2	13.6	174	-424	-138	-670	2208(100%)
15	2018/夏	Q	366	516	440	484	12.4	13.0	13.0	13.0	175	-402	-130	-663	2208(100%)
16	2018/秋	Q	374	494	447	469	12.4	14.0	13.0	13.1	173	-408	-148	-684	2184(100%)
17	2018/年	Q	361	572	434	468	12.5	26.0	13.4	14.3	688	-408	-88	-695	8760(100%)

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表3.1.4 2018年北苗海域主要測站3修補後潮差週期及潮位重要統計量統計表

序號	日期 (年/月)	測站	平均潮差 (公分)	最大潮差 (公分)	1/3潮差 (公分)	1/10潮差 (公分)	平均週期 (時)	最大週期 (時)	1/3週期 (時)	1/10週期 (時)	潮差個數 (個)	平均潮位 (公分)	最高潮位 (公分)	最低潮位 (公分)	水位點數 (個)
1	2017/12	F	182	319	222	265	12.8	26.0	14.5	18.6	57	-343	-194	-518	744(100%)
2	2018/01	F	182	299	225	269	12.6	24.0	13.7	15.6	58	-339	-119	-456	744(100%)
3	2018/02	F	178	254	222	244	12.4	13.0	13.0	13.0	53	-342	-199	-473	672(100%)
4	2018/03	F	182	330	227	258	12.9	26.0	14.3	17.8	57	-334	-144	-541	744(100%)
5	2018/04	F	177	257	219	238	12.4	14.0	13.1	13.4	57	-330	-167	-444	720(100%)
6	2018/05	F	193	269	228	250	12.4	14.0	13.2	13.8	58	-329	-155	-492	744(100%)
7	2018/06	F	173	240	210	229	12.4	14.0	13.1	13.2	57	-323	-168	-476	720(100%)
8	2018/07	F	214	295	258	288	12.4	14.0	13.1	13.4	59	-320	-164	-488	744(100%)
9	2018/08	F	221	315	270	305	12.4	14.0	13.1	13.4	59	-316	-145	-488	744(100%)
10	2018/09	F	224	306	271	295	12.4	14.0	13.1	13.4	57	-322	-169	-489	720(100%)
11	2018/10	F	226	290	271	286	12.4	14.0	13.1	13.2	59	-337	-175	-496	744(100%)
12	2018/11	F	225	309	270	287	12.4	14.0	13.1	13.4	57	-344	-184	-532	720(100%)
13	2018/冬	F	181	319	223	259	12.6	26.0	13.7	15.6	168	-341	-119	-518	2160(100%)
14	2018/春	F	184	330	225	247	12.6	26.0	13.5	14.8	172	-331	-144	-541	2208(100%)
15	2018/夏	F	203	315	252	286	12.4	14.0	13.1	13.3	175	-320	-145	-488	2208(100%)
16	2018/秋	F	225	309	271	288	12.4	14.0	13.1	13.3	173	-334	-169	-532	2184(100%)
17	2018/年	F	198	330	249	279	12.5	26.0	13.4	14.2	688	-331	-119	-541	8760(100%)

# Tidal Level in Tai-Pei Harbor of TPT0 at 2018

1 ○ 8 ● 15 ● 22 ●

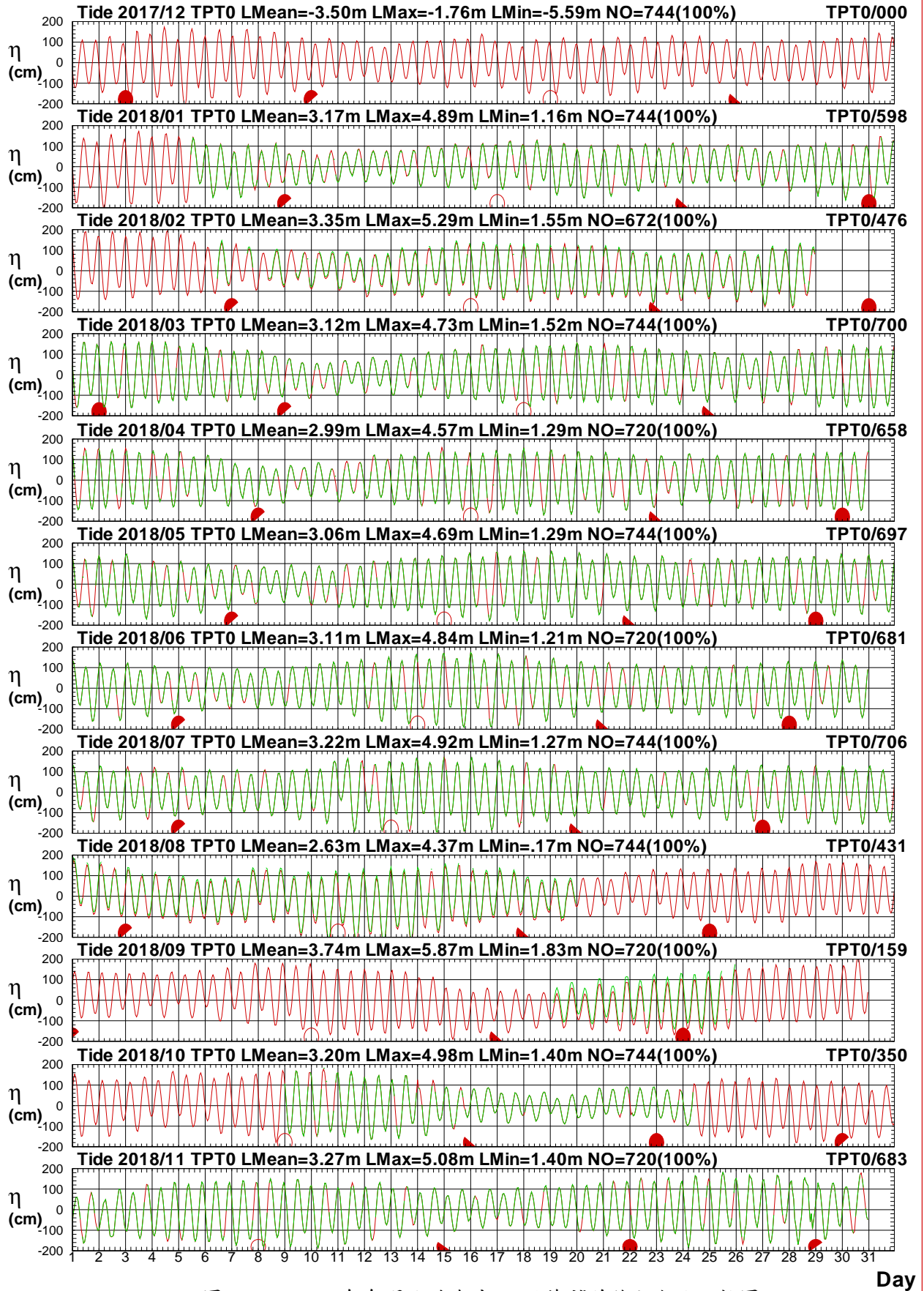


圖3.1.1 2018年每月北苗海域 T 站修補前後之潮位比較圖

T17CTPT0.1HA T17CTPT0.1H0 T181TPT0.1HA T181TPT0.1H0 T182TPT0.1HA T182TPT0.1H0  
 T183TPT0.1HA T183TPT0.1H0 T184TPT0.1HA T184TPT0.1H0 T185TPT0.1HA T185TPT0.1H0

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# Tidal Level in Tai-Pei Harbor of TPT0 at 2018

1 ○ 8 ● 15 ● 22 ●

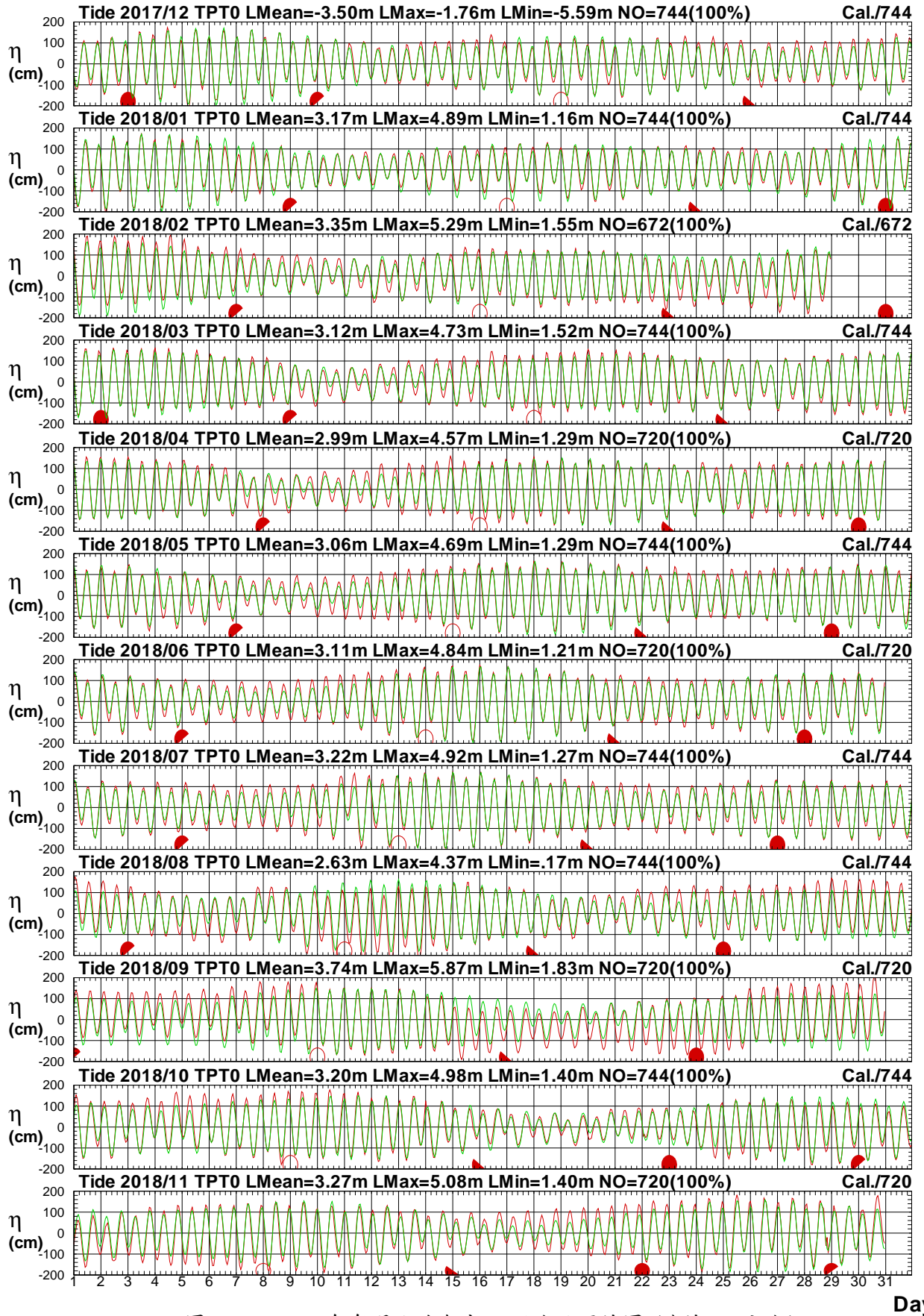


圖3.1.2 2018年每月北苗海域 T 站潮位歷線圖 (綠線: 天文潮)

T17CTPT0.1HA T17CTPT0.1HC T181TPT0.1HA T181TPT0.1HC T182TPT0.1HA T182TPT0.1HC  
 T183TPT0.1HA T183TPT0.1HC T184TPT0.1HA T184TPT0.1HC T185TPT0.1HA T185TPT0.1HC

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# Tidal Level in Tai-Pei Harbor of TPQ0 at 2018

1 ○ 8 ● 15 ● 22 ●

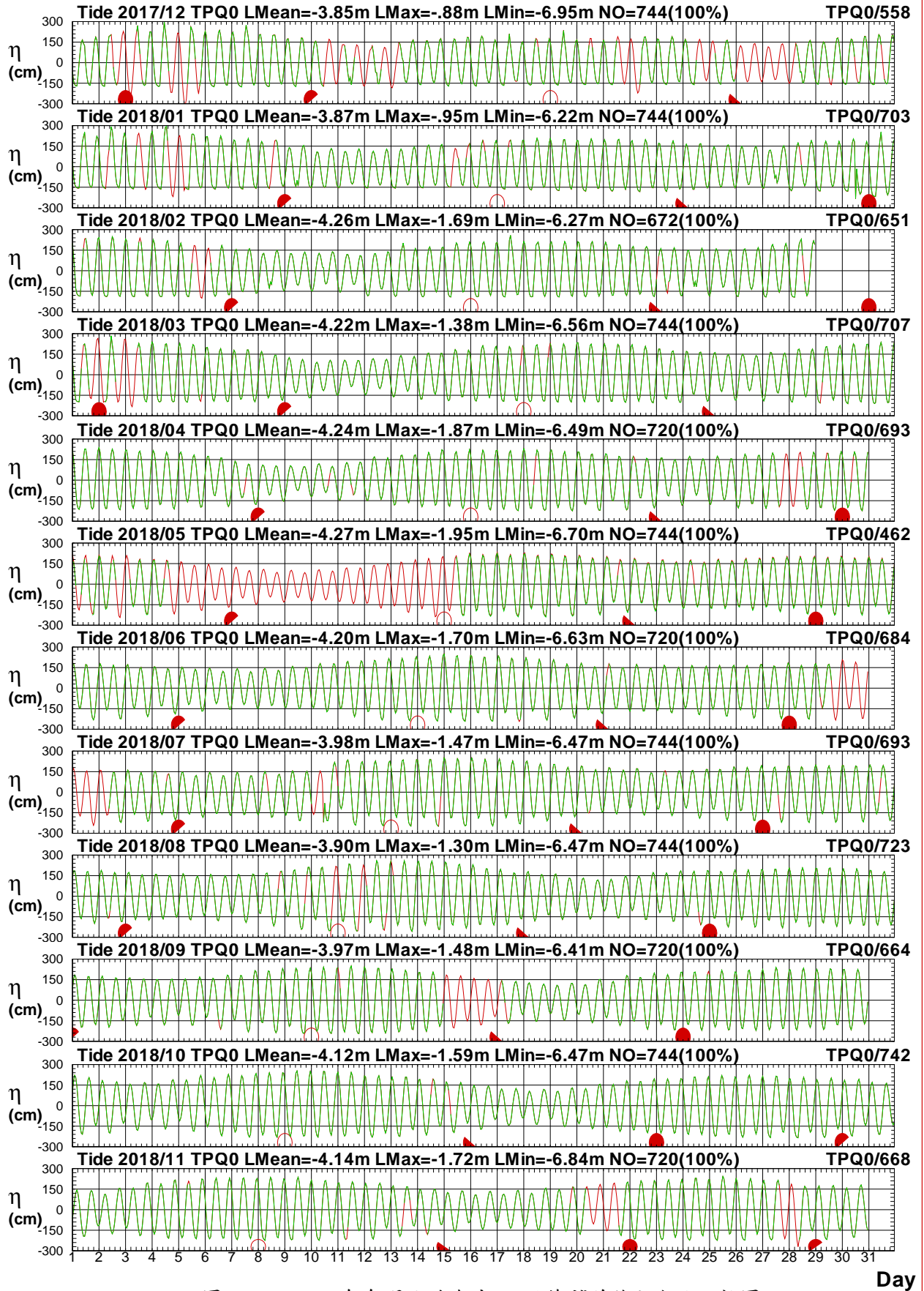


圖3.1.3 2018年每月北苗海域 Q 站修補前後之潮位比較圖

T17CTPQ0.1HA T17CTPQ0.1H0 T181TPQ0.1HA T181TPQ0.1H0 T182TPQ0.1HA T182TPQ0.1H0  
T183TPQ0.1HA T183TPQ0.1H0 T184TPQ0.1HA T184TPQ0.1H0 T185TPQ0.1HA T185TPQ0.1H0

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# Tidal Level in Tai-Pei Harbor of TPQ0 at 2018

1 ○ 8 ● 15 ● 22 ●

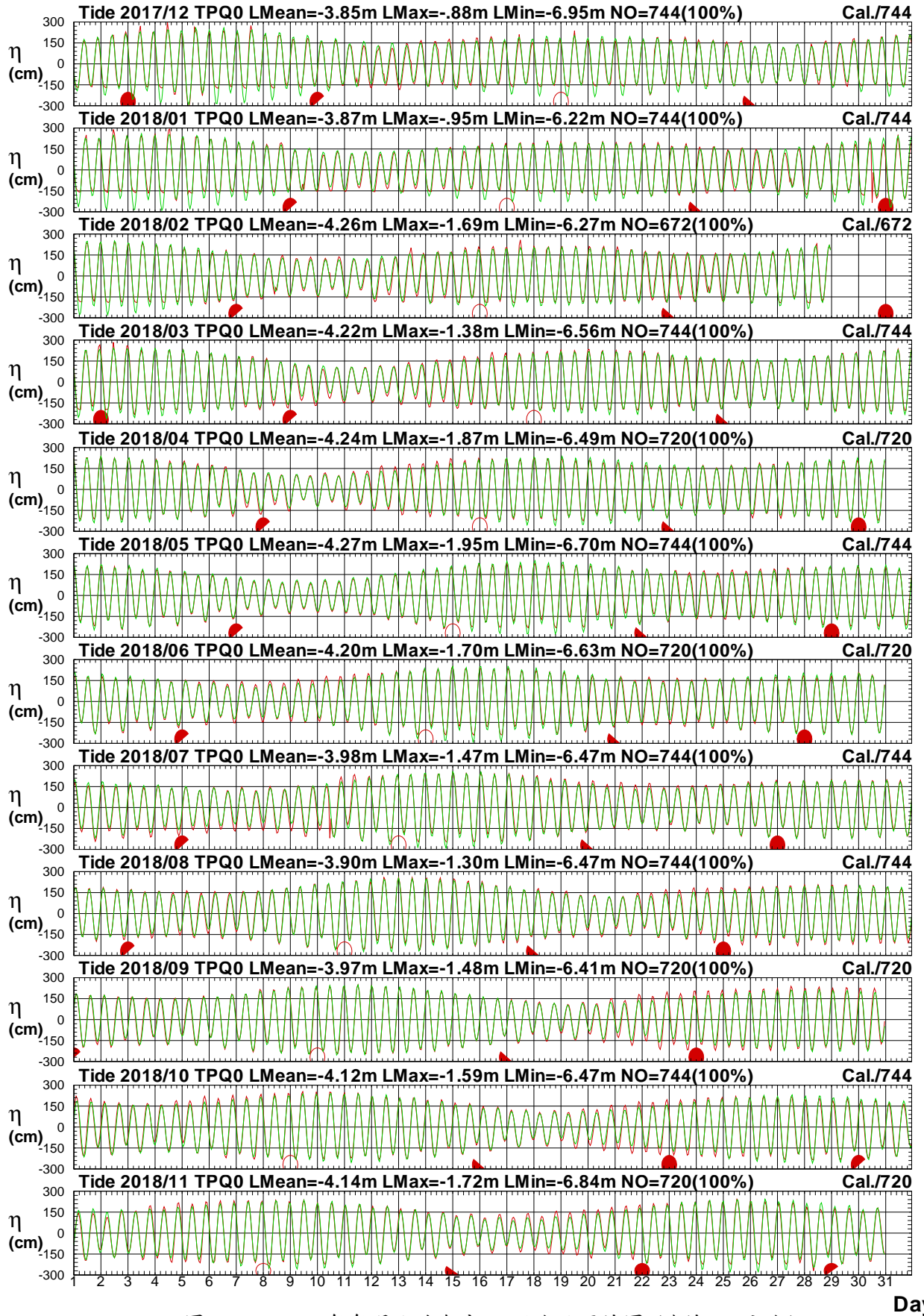


圖3.1.4 2018年每月北苗海域 Q 站潮位歷線圖 (綠線: 天文潮)

# Tidal Level in Tai-Pei Harbor of TPF0 at 2018

1 ○ 8 ● 15 ● 22 ●

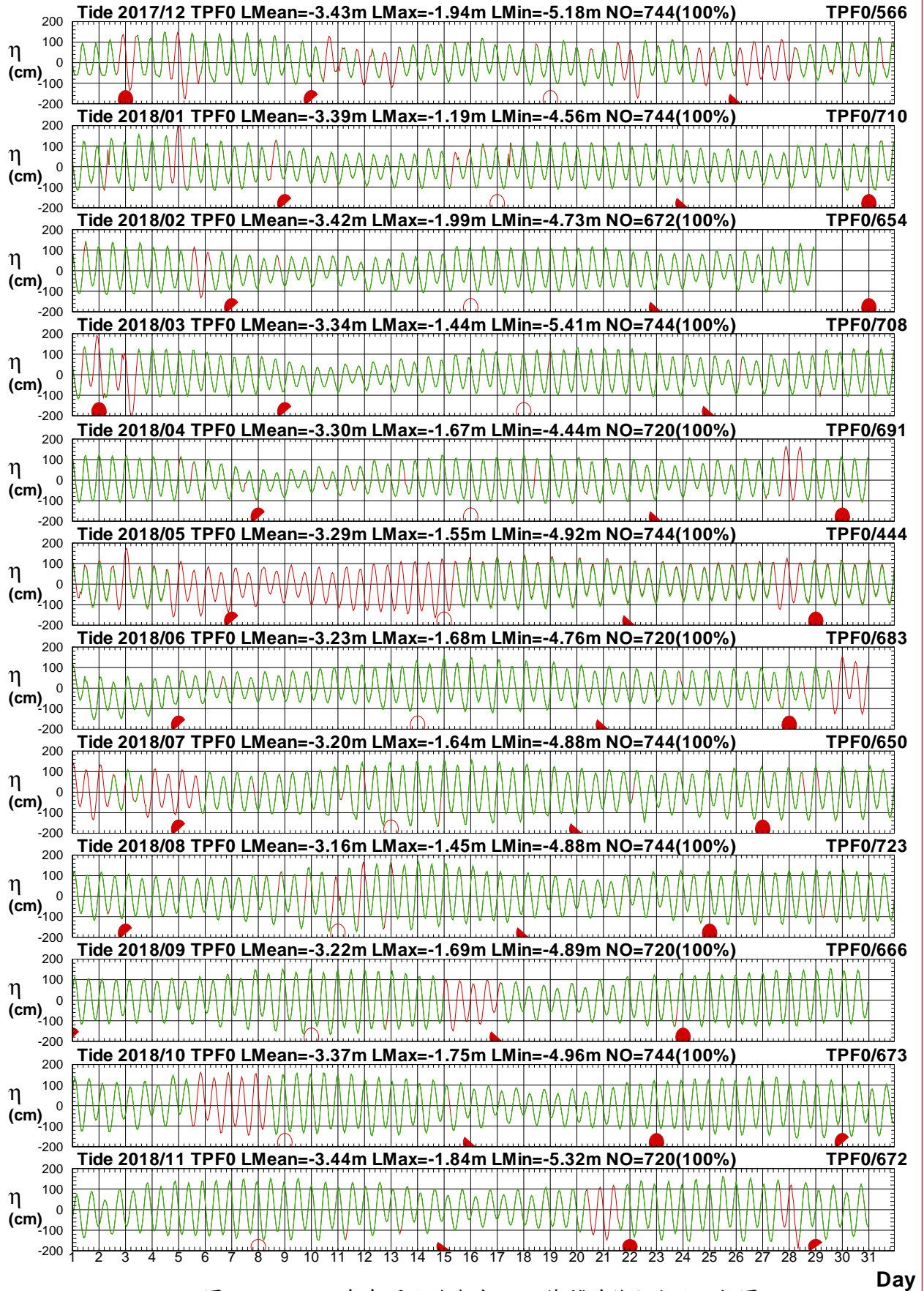


圖3.1.5 2018年每月北苗海域 F 站修補前後之潮位比較圖

T17CTPF0.1HA T17CTPF0.1H0 T181TPF0.1HA T181TPF0.1H0 T182TPF0.1HA T182TPF0.1H0  
 T183TPF0.1HA T183TPF0.1H0 T184TPF0.1HA T184TPF0.1H0 T185TPF0.1HA T185TPF0.1H0

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# Tidal Level in Tai-Pei Harbor of TPF0 at 2018

1 ○ 8 ● 15 ● 22 ●

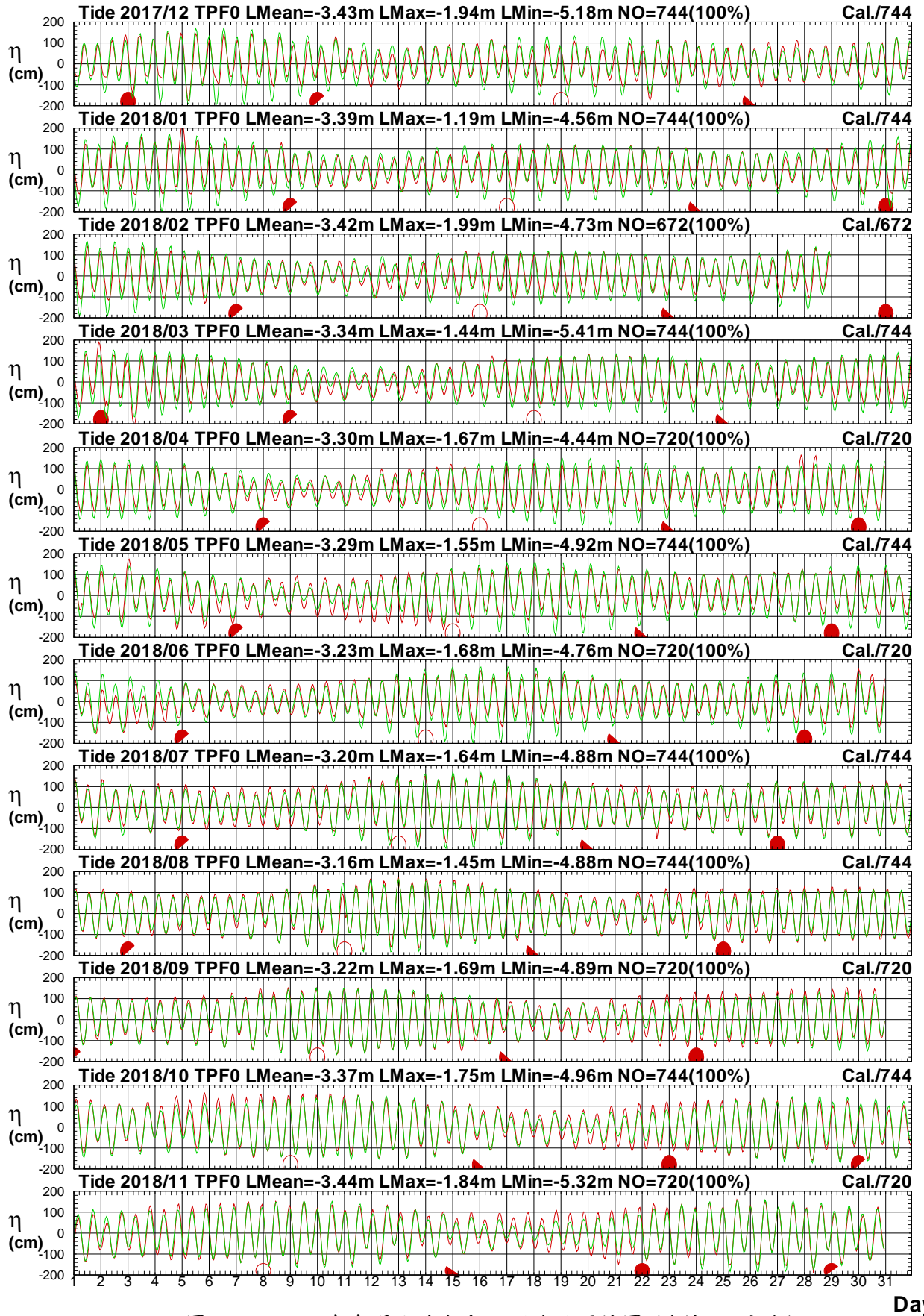


圖3.1.6 2018年每月北苗海域 F 站潮位歷線圖 (綠線: 天文潮)





## 3.2 2018 年北苗海域各測站修補前 潮汐統計量統計表



表3.2.1 2018年北苗海域 T 站修補前潮差週期及潮位重要統計量統計表

序號	日期 (年/月)	測站	平均潮差 (公分)	最大潮差 (公分)	1/3潮差 (公分)	1/10潮差 (公分)	平均週期 (時)	最大週期 (時)	1/3週期 (時)	1/10週期 (時)	潮差個數 (個)	平均潮位 (公分)	最高潮位 (公分)	最低潮位 (公分)	水位點數 (個)
1	2017/12	T													
2	2018/01	T	188	279	235	265	15.9	25.0	23.7	25.0	32	320	463	157	598( 80%)
3	2018/02	T	197	266	237	261	15.7	25.0	22.3	25.0	27	326	473	155	476( 71%)
4	2018/03	T	232	320	282	307	16.6	26.0	24.8	25.3	38	313	473	152	700( 94%)
5	2018/04	T	227	305	281	299	15.3	25.0	21.1	25.0	30	299	453	129	658( 91%)
6	2018/05	T	236	338	286	322	14.2	26.0	18.4	25.0	41	307	469	129	697( 94%)
7	2018/06	T	231	331	285	322	14.4	25.0	18.9	25.0	42	311	484	121	681( 95%)
8	2018/07	T	233	362	294	349	16.8	26.0	25.1	25.3	40	321	492	127	706( 95%)
9	2018/08	T	234	373	321	373	16.4	25.0	25.0	25.0	19	251	437	17	431( 58%)
10	2018/09	T	188	264	236	0	14.3	24.0	19.0	.0	7	346	521	206	159( 22%)
11	2018/10	T	186	305	287	305	14.4	25.0	18.8	25.0	19	320	498	155	350( 47%)
12	2018/11	T	240	365	303	340	17.3	26.0	25.3	26.0	38	326	508	140	683( 95%)
13	2018/冬	T	192	279	237	264	15.8	25.0	23.1	25.0	59	322	473	155	1074( 50%)
14	2018/春	T	232	338	282	311	15.4	26.0	21.4	25.2	109	306	473	129	2055( 93%)
15	2018/夏	T	232	373	296	339	15.7	26.0	22.8	25.1	101	301	492	17	1818( 82%)
16	2018/秋	T	218	365	293	324	16.1	26.0	23.9	25.5	64	327	521	140	1192( 55%)
17	2018/年	T	222	373	283	321	15.7	26.0	22.4	25.2	333	312	521	17	6139( 70%)

3-2-1

表3.2.2 2018年北苗海域 Q 站修補前潮差週期及潮位重要統計量統計表

序 號	日期 (年/月)	測 站	平均 潮差 (公分)	最大 潮差 (公分)	1/3 潮差 (公分)	1/10 潮差 (公分)	平均 週期 (時)	最大 週期 (時)	1/3 週期 (時)	1/10 週期 (時)	潮差 個數 (個)	平均 潮位 (公分)	最高 潮位 (公分)	最低 潮位 (公分)	水位 點數 (個)
1	2017/12	Q	349	448	398	443	14.2	25.0	18.2	25.0	28	-383	-88	-561	558( 75%)
2	2018/01	Q	339	459	392	433	14.2	25.0	18.6	25.0	48	-389	-95	-622	703( 95%)
3	2018/02	Q	350	448	409	431	13.8	25.0	16.9	24.8	45	-427	-169	-620	651( 97%)
4	2018/03	Q	353	437	420	430	13.6	25.0	16.4	24.4	51	-422	-138	-633	707( 95%)
5	2018/04	Q	359	449	430	441	13.2	25.0	15.1	20.0	51	-425	-187	-649	693( 96%)
6	2018/05	Q	378	444	427	443	12.9	25.0	14.2	17.0	30	-420	-195	-660	462( 62%)
7	2018/06	Q	355	490	426	473	12.9	25.0	14.4	17.8	51	-419	-170	-662	684( 95%)
8	2018/07	Q	362	497	442	486	13.6	26.0	16.5	25.0	51	-397	-147	-647	693( 93%)
9	2018/08	Q	369	511	444	486	13.6	25.0	16.2	24.6	54	-391	-130	-647	723( 97%)
10	2018/09	Q	377	494	459	481	13.2	25.0	15.3	22.0	48	-398	-148	-641	664( 92%)
11	2018/10	Q	377	480	450	472	12.7	24.0	13.6	15.2	58	-412	-159	-647	742(100%)
12	2018/11	Q	367	467	442	459	13.3	25.0	15.3	21.8	46	-414	-172	-638	668( 93%)
13	2018/冬	Q	346	459	401	431	14.0	25.0	17.9	25.0	121	-400	-88	-622	1912( 89%)
14	2018/春	Q	361	449	426	440	13.3	25.0	15.4	21.0	132	-423	-138	-660	1862( 84%)
15	2018/夏	Q	362	511	438	483	13.4	26.0	15.7	22.5	156	-402	-130	-662	2100( 95%)
16	2018/秋	Q	374	494	451	472	13.0	25.0	14.6	18.5	152	-408	-148	-647	2074( 95%)
17	2018/年	Q	361	511	434	465	13.4	26.0	15.8	22.4	561	-408	-88	-662	7948( 91%)

3-2-2

表3.2.3 2018年北苗海域 F 站修補前潮差週期及潮位重要統計量統計表

序號	日期 (年/月)	測站	平均 潮差 (公分)	最大 潮差 (公分)	1/3 潮差 (公分)	1/10 潮差 (公分)	平均 週期 (時)	最大 週期 (時)	1/3 週期 (時)	1/10 週期 (時)	潮差 個數 (個)	平均 潮位 (公分)	最高 潮位 (公分)	最低 潮位 (公分)	水位 點數 (個)
1	2017/12	F	181	242	212	227	14.1	25.0	17.8	24.7	30	-341	-194	-454	566( 76%)
2	2018/01	F	179	265	225	242	13.4	26.0	16.0	22.6	50	-341	-183	-456	710( 95%)
3	2018/02	F	176	235	218	231	12.7	25.0	13.8	16.0	49	-342	-199	-458	654( 97%)
4	2018/03	F	177	251	217	229	13.1	26.0	15.1	20.2	53	-334	-200	-451	708( 95%)
5	2018/04	F	173	227	213	222	12.9	25.0	14.5	18.0	51	-331	-206	-444	691( 96%)
6	2018/05	F	186	223	216	222	12.4	13.0	13.0	13.0	29	-321	-189	-446	444( 60%)
7	2018/06	F	173	272	216	256	12.6	25.0	13.7	15.6	54	-323	-172	-476	683( 95%)
8	2018/07	F	219	295	266	291	12.9	26.0	14.6	19.3	49	-321	-164	-488	650( 87%)
9	2018/08	F	219	332	270	307	13.6	25.0	16.4	24.8	54	-317	-145	-488	723( 97%)
10	2018/09	F	225	306	274	295	12.7	24.0	13.8	15.4	50	-321	-169	-489	666( 93%)
11	2018/10	F	221	290	266	282	12.4	14.0	13.1	13.2	52	-338	-178	-496	673( 91%)
12	2018/11	F	221	314	276	297	13.0	25.0	14.6	19.5	48	-344	-184	-499	672( 93%)
13	2018/冬	F	178	265	219	236	13.3	26.0	15.5	22.0	129	-341	-183	-458	1930( 89%)
14	2018/春	F	177	251	215	225	12.9	26.0	14.4	17.7	133	-330	-189	-451	1843( 84%)
15	2018/夏	F	203	332	259	288	13.1	26.0	14.9	19.6	157	-320	-145	-488	2056( 93%)
16	2018/秋	F	222	314	271	291	12.7	25.0	13.8	15.6	150	-334	-169	-499	2011( 92%)
17	2018/年	F	197	332	248	279	13.0	26.0	14.6	18.5	569	-331	-145	-499	7840( 90%)

3-2-3

表3.2.4 2018年北苗海域 S 站修補前潮差週期及潮位重要統計量統計表

序 號	日期 (年/月)	測 站	平均 潮差 (公分)	最大 潮差 (公分)	1/3 潮差 (公分)	1/10 潮差 (公分)	平均 週期 (時)	最大 週期 (時)	1/3 週期 (時)	1/10 週期 (時)	潮差 個數 (個)	平均 潮位 (公分)	最高 潮位 (公分)	最低 潮位 (公分)	水位 點數 (個)
1	2017/12	S													
2	2018/01	S													
3	2018/02	S													
4	2018/03	S													
5	2018/04	S													
6	2018/05	S													
7	2018/06	S													
8	2018/07	S													
9	2018/08	S													
10	2018/09	S	*	*	*	*	*	*	*	*	0	387	512	271	13( 2%)
11	2018/10	S	245	322	299	318	14.1	25.0	18.1	25.0	51	347	522	0	733( 99%)
12	2018/11	S	243	349	305	337	13.9	25.0	17.1	24.6	51	342	514	151	712( 99%)
13	2018/冬	S													
14	2018/春	S													
15	2018/夏	S													
16	2018/秋	S	244	349	302	329	14.0	25.0	17.6	25.0	102	345	522	0	1458( 67%)
17	2018/年	S	244	349	302	329	14.0	25.0	17.6	25.0	102	345	522	0	1458( 17%)

3-2-4

表3.2.5 2018年北苗海域 X 站修補前潮差週期及潮位重要統計量統計表

序號	日期 (年/月)	測站	平均 潮差 (公分)	最大 潮差 (公分)	1/3 潮差 (公分)	1/10 潮差 (公分)	平均 週期 (時)	最大 週期 (時)	1/3 週期 (時)	1/10 週期 (時)	潮差 個數 (個)	平均 潮位 (公分)	最高 潮位 (公分)	最低 潮位 (公分)	水位 點數 (個)
1	2017/12	X	205	301	247	301	12.5	13.0	13.0	13.0	15	2016	2162	1862	200( 27%)
2	2018/01	X	227	343	286	327	14.6	25.0	19.2	25.0	45	2011	2186	1819	713( 96%)
3	2018/02	X	220	350	270	313	13.3	26.0	15.6	22.3	43	2011	2176	1826	640( 95%)
4	2018/03	X	217	280	269	277	13.2	25.0	15.2	21.0	34	1975	2162	1820	632( 85%)
5	2018/04	X	225	288	269	282	13.2	25.0	15.2	20.4	51	2001	2166	1831	698( 97%)
6	2018/05	X	214	320	267	307	14.2	26.0	18.3	25.3	48	2023	2175	1848	719( 97%)
7	2018/06	X	219	311	271	305	13.6	25.0	16.5	25.0	51	2024	2186	1839	710( 99%)
8	2018/07	X	223	348	279	337	12.8	25.0	14.3	18.0	57	2032	2195	1844	734( 99%)
9	2018/08	X	225	334	279	316	13.1	25.0	15.0	20.2	56	2037	2205	1855	741(100%)
10	2018/09	X	229	318	285	309	12.9	25.0	14.4	17.8	52	2000	2150	1813	691( 96%)
11	2018/10	X	237	302	284	300	13.2	26.0	15.3	22.3	48	1984	2148	1810	692( 93%)
12	2018/11	X	228	339	287	319	12.9	25.0	14.4	18.2	55	2015	2189	1832	711( 99%)
13	2018/冬	X	221	350	276	317	13.8	26.0	16.8	24.9	103	2012	2186	1819	1553( 72%)
14	2018/春	X	219	320	270	289	13.6	26.0	16.3	24.2	133	2001	2175	1820	2049( 93%)
15	2018/夏	X	222	348	277	320	13.2	25.0	15.2	20.6	164	2031	2205	1839	2185( 99%)
16	2018/秋	X	231	339	286	309	13.0	26.0	14.7	18.8	155	2000	2189	1810	2094( 96%)
17	2018/年	X	224	350	278	310	13.3	26.0	15.6	21.8	555	2011	2205	1810	7881( 90%)

3-2-5

表3.2.6 2018年北苗海域 K 站修補前潮差週期及潮位重要統計量統計表

序 號	日期 (年/月)	測 站	平均 潮差 (公分)	最大 潮差 (公分)	1/3 潮差 (公分)	1/10 潮差 (公分)	平均 週期 (時)	最大 週期 (時)	1/3 週期 (時)	1/10 週期 (時)	潮差 個數 (個)	平均 潮位 (公分)	最高 潮位 (公分)	最低 潮位 (公分)	水位 點數 (個)
1	2017/12	K	262	396	316	386	15.1	25.0	20.7	25.0	27	-236	-42	-446	560( 75%)
2	2018/01	K	261	417	336	388	12.9	25.0	14.4	17.8	53	-236	-37	-454	712( 96%)
3	2018/02	K	253	362	314	346	12.7	25.0	13.8	16.0	49	-238	-54	-438	654( 97%)
4	2018/03	K	253	338	311	330	12.9	25.0	14.4	17.8	52	-228	-54	-424	708( 95%)
5	2018/04	K	256	334	311	325	13.2	25.0	15.1	20.2	51	-232	-59	-414	693( 96%)
6	2018/05	K	272	335	314	332	12.4	13.0	13.0	13.0	31	-207	33	-423	456( 61%)
7	2018/06	K	252	392	315	375	12.7	25.0	13.8	15.8	52	-191	-7	-399	682( 95%)
8	2018/07	K	261	399	326	371	13.1	25.0	15.1	20.2	53	-172	27	-394	707( 95%)
9	2018/08	K	257	383	313	354	13.4	25.0	15.8	22.6	52	-200	-7	-401	703( 95%)
10	2018/09	K	268	365	327	354	12.4	14.0	13.1	13.2	51	-207	-32	-405	667( 93%)
11	2018/10	K	266	362	328	348	12.7	25.0	13.7	15.8	58	-222	-33	-417	741(100%)
12	2018/11	K	265	379	335	369	12.7	24.0	13.7	15.8	47	-228	-42	-433	671( 93%)
13	2018/冬	K	258	417	322	372	13.3	25.0	15.4	21.8	129	-237	-37	-454	1926( 89%)
14	2018/春	K	258	338	312	329	12.9	25.0	14.4	17.6	134	-224	33	-424	1857( 84%)
15	2018/夏	K	256	399	318	368	13.1	25.0	14.9	19.5	157	-188	27	-401	2092( 95%)
16	2018/秋	K	266	379	329	355	12.6	25.0	13.5	14.7	156	-219	-32	-433	2079( 95%)
17	2018/年	K	260	417	322	356	12.9	25.0	14.5	18.1	576	-216	33	-454	7954( 91%)

3-2-0



表3.2.7 2018年北苗海域 M 站修補前潮差週期及潮位重要統計量統計表

序號	日期 (年/月)	測站	平均 潮差 (公分)	最大 潮差 (公分)	1/3 潮差 (公分)	1/10 潮差 (公分)	平均 週期 (時)	最大 週期 (時)	1/3 週期 (時)	1/10 週期 (時)	潮差 個數 (個)	平均 潮位 (公分)	最高 潮位 (公分)	最低 潮位 (公分)	水位 點數 (個)
1	2017/12	M	223	336	273	327	14.4	25.0	18.9	25.0	31	-349	-176	-522	565( 76%)
2	2018/01	M	220	340	271	315	13.4	25.0	15.8	22.6	51	-348	-168	-523	709( 95%)
3	2018/02	M	218	330	266	312	12.4	13.0	13.0	13.0	48	-319	-150	-521	631( 94%)
4	2018/03	M	218	287	266	280	13.2	25.0	15.2	21.8	48	-291	-138	-456	683( 92%)
5	2018/04	M	216	300	267	289	12.9	25.0	14.4	17.8	52	-271	-116	-425	692( 96%)
6	2018/05	M	230	286	265	283	12.4	13.0	13.0	13.0	30	-264	-115	-433	458( 62%)
7	2018/06	M	214	304	265	298	13.2	25.0	15.1	20.2	51	-258	-94	-434	680( 94%)
8	2018/07	M	222	344	282	333	13.4	25.0	16.0	25.0	49	-258	-97	-441	690( 93%)
9	2018/08	M	220	337	273	312	13.3	25.0	15.7	22.8	55	-254	-81	-427	721( 97%)
10	2018/09	M	225	321	282	313	13.5	25.0	16.3	25.0	46	-259	-103	-431	649( 90%)
11	2018/10	M	233	299	282	296	12.9	26.0	14.4	19.5	28	-280	-122	-472	405( 54%)
12	2018/11	M	227	341	281	321	13.4	24.0	15.3	20.7	30	-282	-115	-472	461( 64%)
13	2018/冬	M	220	340	270	315	13.3	25.0	15.5	21.2	130	-339	-150	-523	1905( 88%)
14	2018/春	M	220	300	266	284	12.9	25.0	14.4	17.5	130	-277	-115	-456	1833( 83%)
15	2018/夏	M	219	344	273	314	13.3	25.0	15.6	21.9	155	-257	-81	-441	2091( 95%)
16	2018/秋	M	228	341	282	310	13.3	26.0	15.5	21.5	104	-272	-103	-472	1515( 69%)
17	2018/年	M	221	344	273	307	13.2	26.0	15.2	20.5	519	-286	-81	-523	7344( 84%)

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表3.2.8 2018年北苗海域O站修補前潮差週期及潮位重要統計量統計表

序 號	日期 (年/月)	測 站	平均 潮差 (公分)	最大 潮差 (公分)	1/3 潮差 (公分)	1/10 潮差 (公分)	平均 週期 (時)	最大 週期 (時)	1/3 週期 (時)	1/10 週期 (時)	潮差 個數 (個)	平均 潮位 (公分)	最高 潮位 (公分)	最低 潮位 (公分)	水位 點數 (個)
1	2017/12	O	226	353	278	336	14.4	25.0	18.9	25.0	31	-349	-174	-536	565( 76%)
2	2018/01	O	225	347	279	333	13.7	25.0	16.8	25.0	49	-347	-169	-540	672( 90%)
3	2018/02	O	219	337	268	316	12.4	13.0	13.0	13.0	48	-317	-144	-525	631( 94%)
4	2018/03	O	219	289	268	282	13.2	25.0	15.2	21.8	48	-287	-132	-452	683( 92%)
5	2018/04	O	218	302	269	291	12.9	25.0	14.4	17.8	52	-283	-135	-443	692( 96%)
6	2018/05	O	231	287	267	284	12.4	13.0	13.0	13.0	30	-268	-117	-439	458( 62%)
7	2018/06	O	215	307	267	300	13.2	25.0	15.1	20.2	51	-266	-101	-444	680( 94%)
8	2018/07	O	223	346	283	335	13.4	25.0	16.1	25.0	49	-255	-93	-439	690( 93%)
9	2018/08	O	220	338	274	313	13.3	25.0	15.7	22.8	55	-251	-75	-423	721( 97%)
10	2018/09	O	225	322	282	314	13.5	25.0	16.3	25.0	46	-259	-105	-432	649( 90%)
11	2018/10	O	233	285	269	281	12.9	26.0	14.4	19.5	28	-279	-122	-446	403( 54%)
12	2018/11	O	227	341	282	322	13.3	24.0	15.3	20.7	30	-282	-115	-456	459( 64%)
13	2018/冬	O	223	353	275	326	13.4	25.0	15.8	22.9	128	-337	-144	-540	1868( 87%)
14	2018/春	O	221	302	268	285	12.9	25.0	14.4	17.5	130	-281	-117	-452	1833( 83%)
15	2018/夏	O	219	346	275	315	13.3	25.0	15.6	21.9	155	-257	-75	-444	2091( 95%)
16	2018/秋	O	228	341	279	309	13.3	26.0	15.5	21.6	104	-271	-105	-456	1511( 69%)
17	2018/年	O	222	353	274	309	13.2	26.0	15.3	20.8	517	-287	-75	-540	7303( 83%)

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表3.2.9 2018年北苗海域 Q 站修補前潮差週期及潮位重要統計量統計表

序 號	日期 (年/月)	測 站	平均 潮差 (公分)	最大 潮差 (公分)	1/3 潮差 (公分)	1/10 潮差 (公分)	平均 週期 (時)	最大 週期 (時)	1/3 週期 (時)	1/10 週期 (時)	潮差 個數 (個)	平均 潮位 (公分)	最高 潮位 (公分)	最低 潮位 (公分)	水位 點數 (個)
1	2017/12	P	347	442	394	437	14.9	25.0	19.9	25.0	30	-377	-136	-583	562( 76%)
2	2018/01	P	337	445	402	429	13.6	25.0	16.7	24.6	50	-377	-132	-582	708( 95%)
3	2018/02	P	337	423	401	417	12.7	25.0	13.8	16.0	49	-380	-148	-580	655( 98%)
4	2018/03	P	329	433	399	420	13.4	25.0	15.8	22.4	52	-368	-141	-580	704( 95%)
5	2018/04	P	336	432	406	421	12.9	26.0	14.4	17.8	51	-357	-142	-575	692( 96%)
6	2018/05	P	353	421	398	417	12.4	13.0	13.0	13.0	33	-347	-133	-572	465( 63%)
7	2018/06	P	330	462	402	448	12.9	25.0	14.4	17.8	51	-348	-111	-576	682( 95%)
8	2018/07	P	338	443	406	440	13.5	25.0	16.2	24.8	46	-339	-107	-574	668( 90%)
9	2018/08	P	343	473	410	444	13.1	25.0	15.1	20.4	56	-339	-93	-572	722( 97%)
10	2018/09	P	352	451	423	445	12.9	25.0	14.6	19.5	49	-344	-114	-570	664( 92%)
11	2018/10	P	349	437	412	431	12.4	13.0	13.0	13.0	59	-359	-122	-632	743(100%)
12	2018/11	P	337	435	402	421	12.4	13.0	13.0	13.0	49	-363	-133	-568	672( 93%)
13	2018/冬	P	339	445	399	427	13.6	25.0	16.3	24.6	129	-378	-132	-583	1925( 89%)
14	2018/春	P	338	433	402	420	13.0	26.0	14.6	18.5	136	-359	-133	-580	1861( 84%)
15	2018/夏	P	337	473	406	443	13.2	25.0	15.1	20.3	153	-342	-93	-576	2072( 94%)
16	2018/秋	P	346	451	413	435	12.6	25.0	13.5	14.7	157	-355	-114	-632	2079( 95%)
17	2018/年	P	340	473	406	432	13.1	26.0	14.8	19.1	575	-358	-93	-632	7937( 91%)

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### 3.3 2018 年北苗海域**主要測站 1**(修補後)與 **其他測站**(修補前)潮位歷線比較圖



# Tidal Level in Pei-Miao Seas of TPT0 at 2018

1 ○ 8 ● 15 ● 22 ●

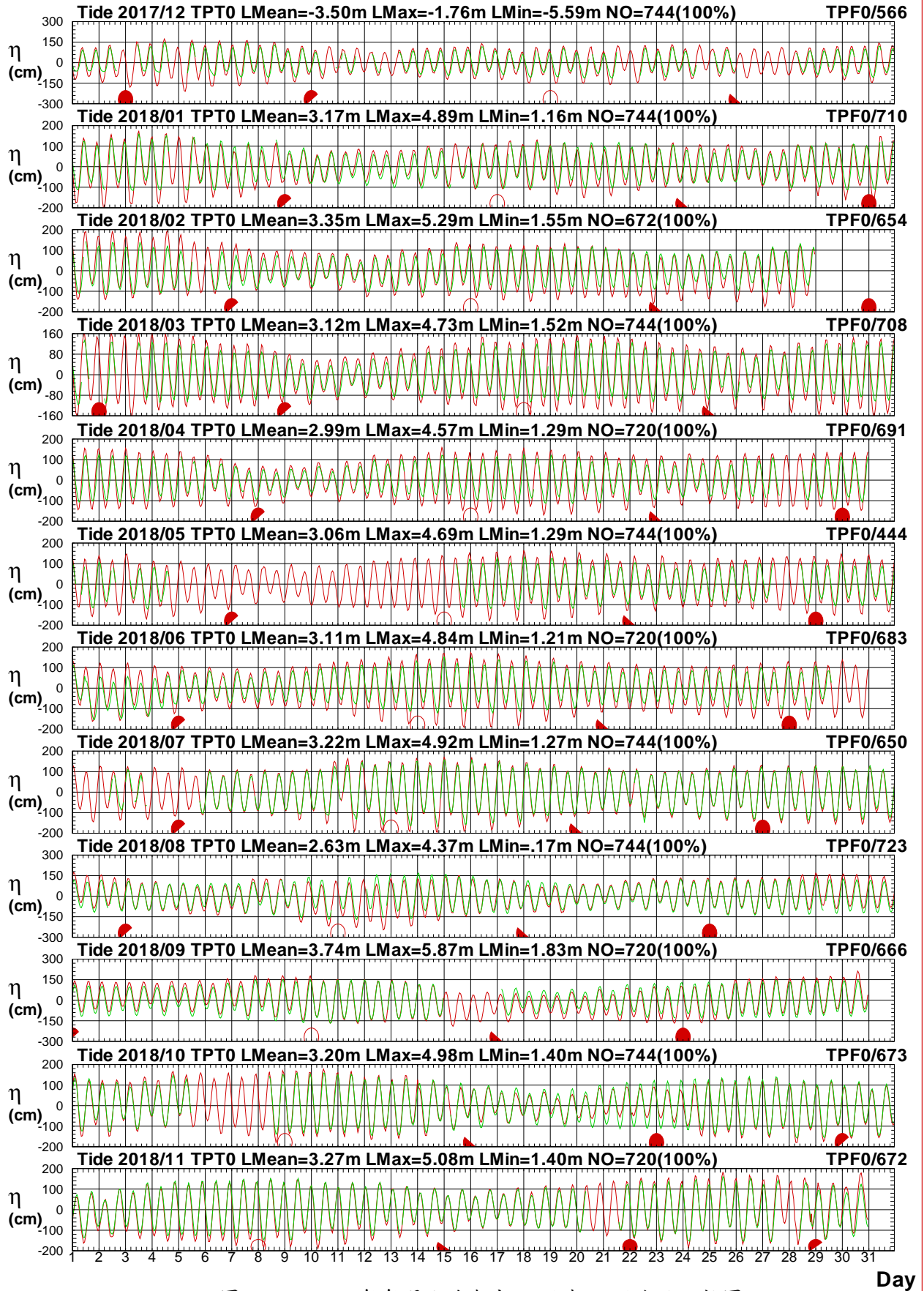


圖3.3.1 2018年每月北苗海域 T 站與 F 站潮位比較圖

T17CTPT0.1HA T17CTPF0.1H0 T181TPT0.1HA T181TPF0.1H0 T182TPT0.1HA T182TPF0.1H0  
 T183TPT0.1HA T183TPF0.1H0 T184TPT0.1HA T184TPF0.1H0 T185TPT0.1HA T185TPF0.1H0

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# Tidal Level in Pei-Miao Seas of TPT0 at 2018

1 ○ 8 ● 15 ● 22 ●

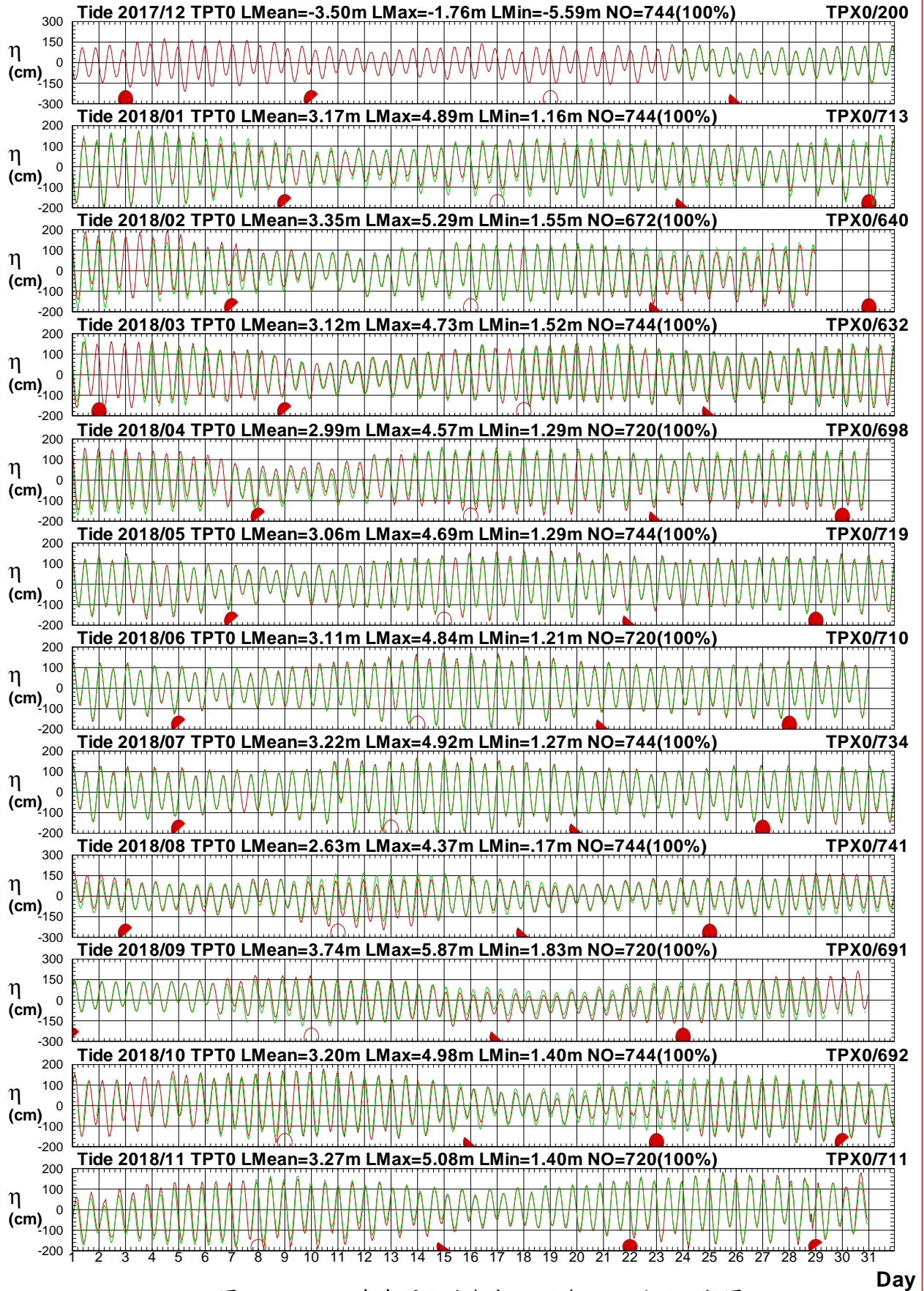


圖3.3.2 2018年每月北苗海域 T 站與 X 站潮位比較圖

T17CTPT0.1HA T17CTPX0.1H0 T181TPT0.1HA T181TPX0.1H0 T182TPT0.1HA T182TPX0.1H0  
 T183TPT0.1HA T183TPX0.1H0 T184TPT0.1HA T184TPX0.1H0 T185TPT0.1HA T185TPX0.1H0

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# Tidal Level in Pei-Miao Seas of TPT0 at 2018

1 ○ 8 ● 15 ● 22 ●

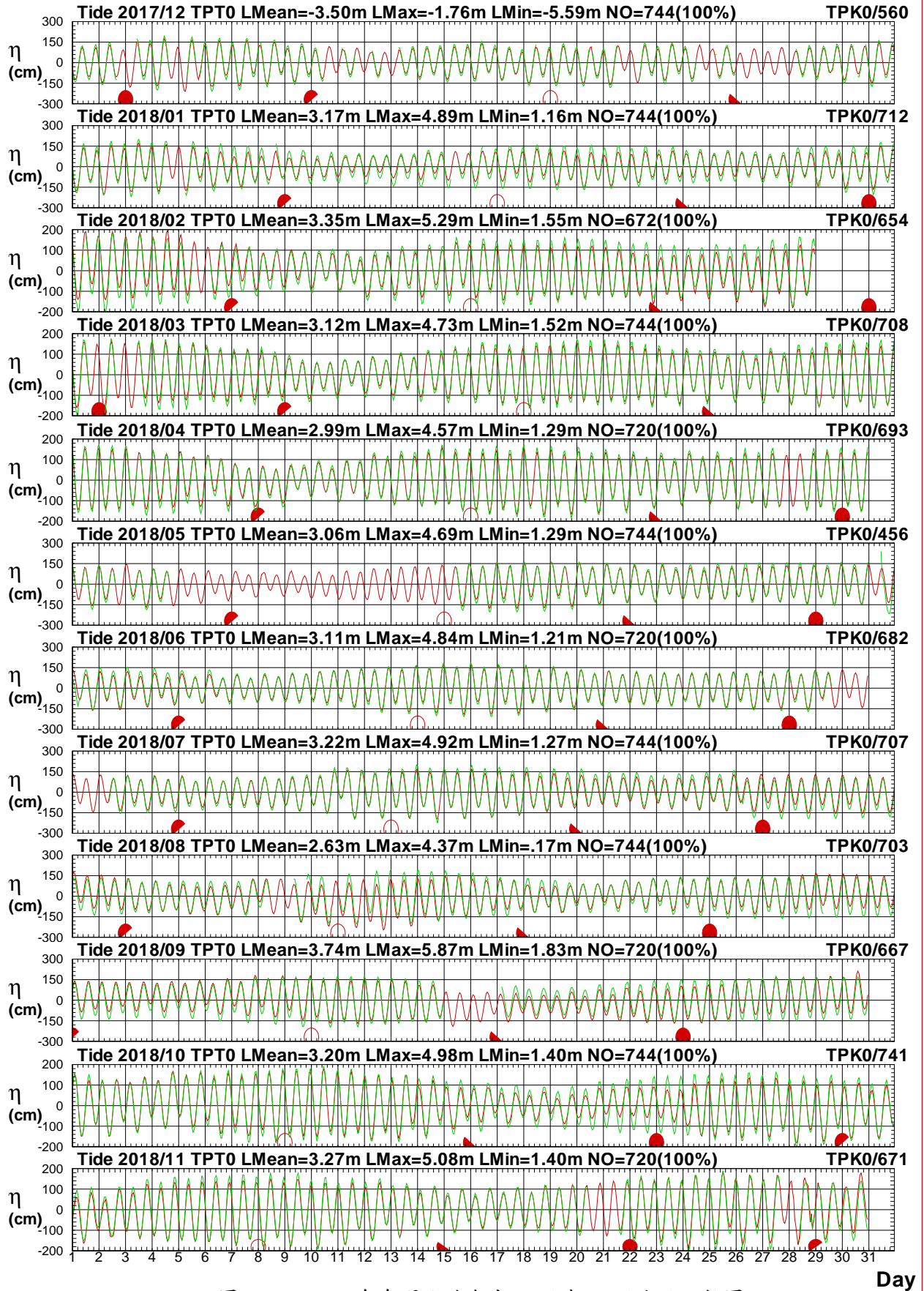


圖3.3.3 2018年每月北苗海域 T 站與 K 站潮位比較圖

T17CTPT0.1HA T17CTPK0.1H0 T181TPT0.1HA T181TPK0.1H0 T182TPT0.1HA T182TPK0.1H0  
 T183TPT0.1HA T183TPK0.1H0 T184TPT0.1HA T184TPK0.1H0 T185TPT0.1HA T185TPK0.1H0

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# Tidal Level in Pei-Miao Seas of TPT0 at 2018

1 ○ 8 ● 15 ● 22 ●

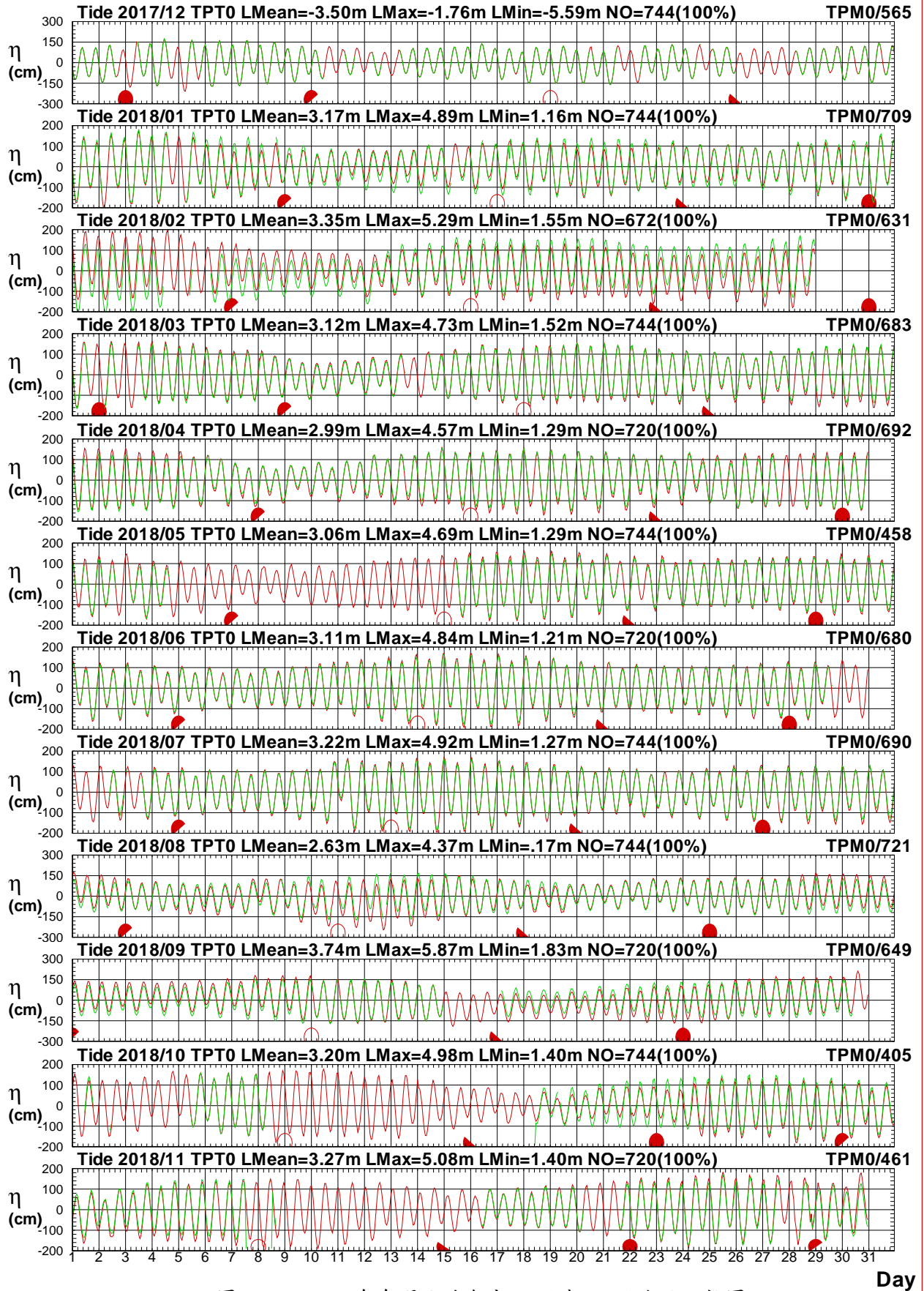


圖3.3.4 2018年每月北苗海域 T 站與 M 站潮位比較圖

T17CTPT0.1HA T17CTPM0.1H0 T181TPT0.1HA T181TPM0.1H0 T182TPT0.1HA T182TPM0.1H0  
 T183TPT0.1HA T183TPM0.1H0 T184TPT0.1HA T184TPM0.1H0 T185TPT0.1HA T185TPM0.1H0

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# Tidal Level in Pei-Miao Seas of TPT0 at 2018

1 ○ 8 ● 15 ● 22 ●

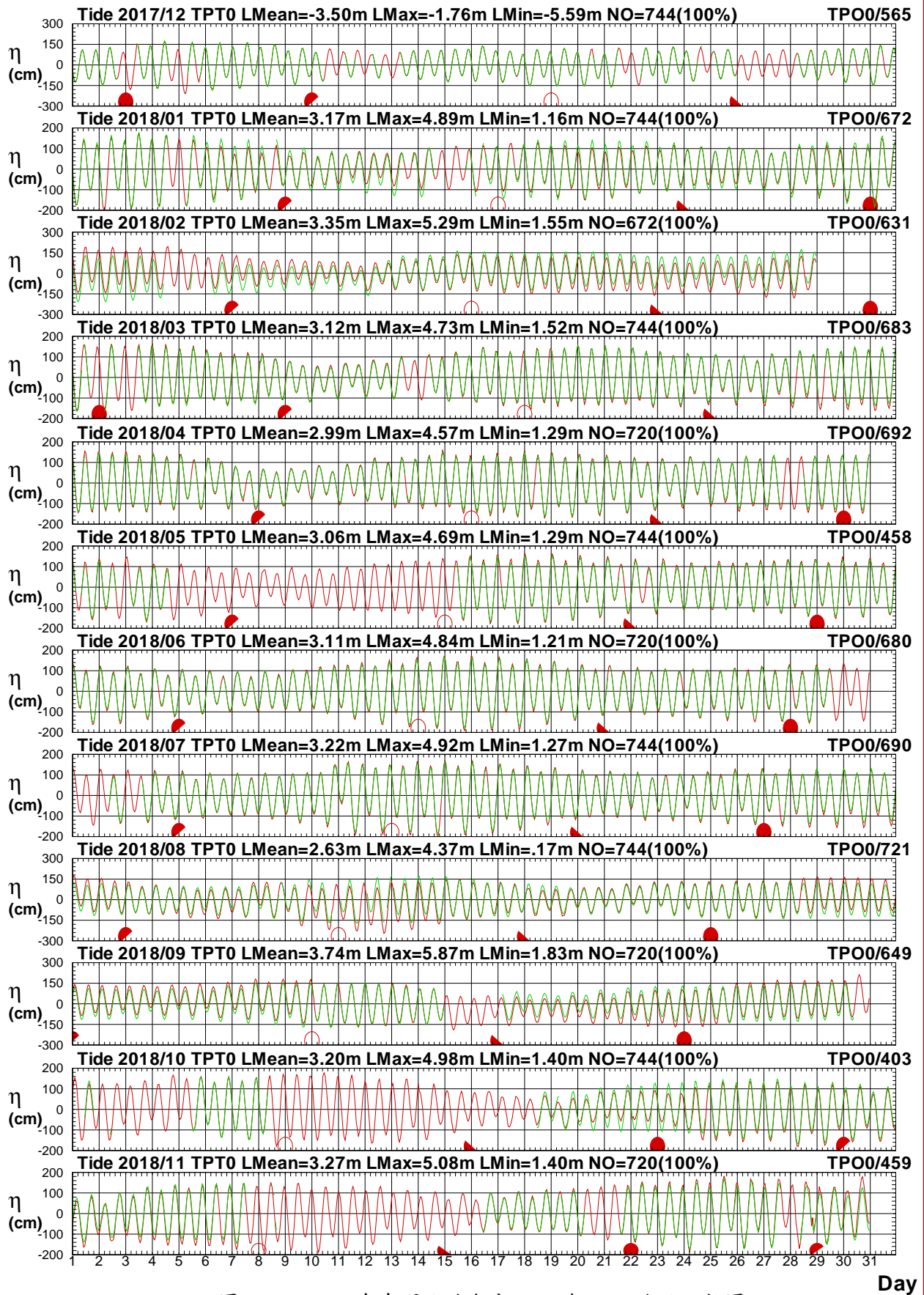


圖3.3.5 2018年每月北苗海域 T 站與 O 站潮位比較圖

T17CTPT0.1HA T17CTPO0.1H0 T181TPT0.1HA T181TPO0.1H0 T182TPT0.1HA T182TPO0.1H0  
T183TPT0.1HA T183TPO0.1H0 T184TPT0.1HA T184TPO0.1H0 T185TPT0.1HA T185TPO0.1H0

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# Tidal Level in Pei-Miao Seas of TPT0 at 2018

1 ○ 8 ● 15 ● 22 ●

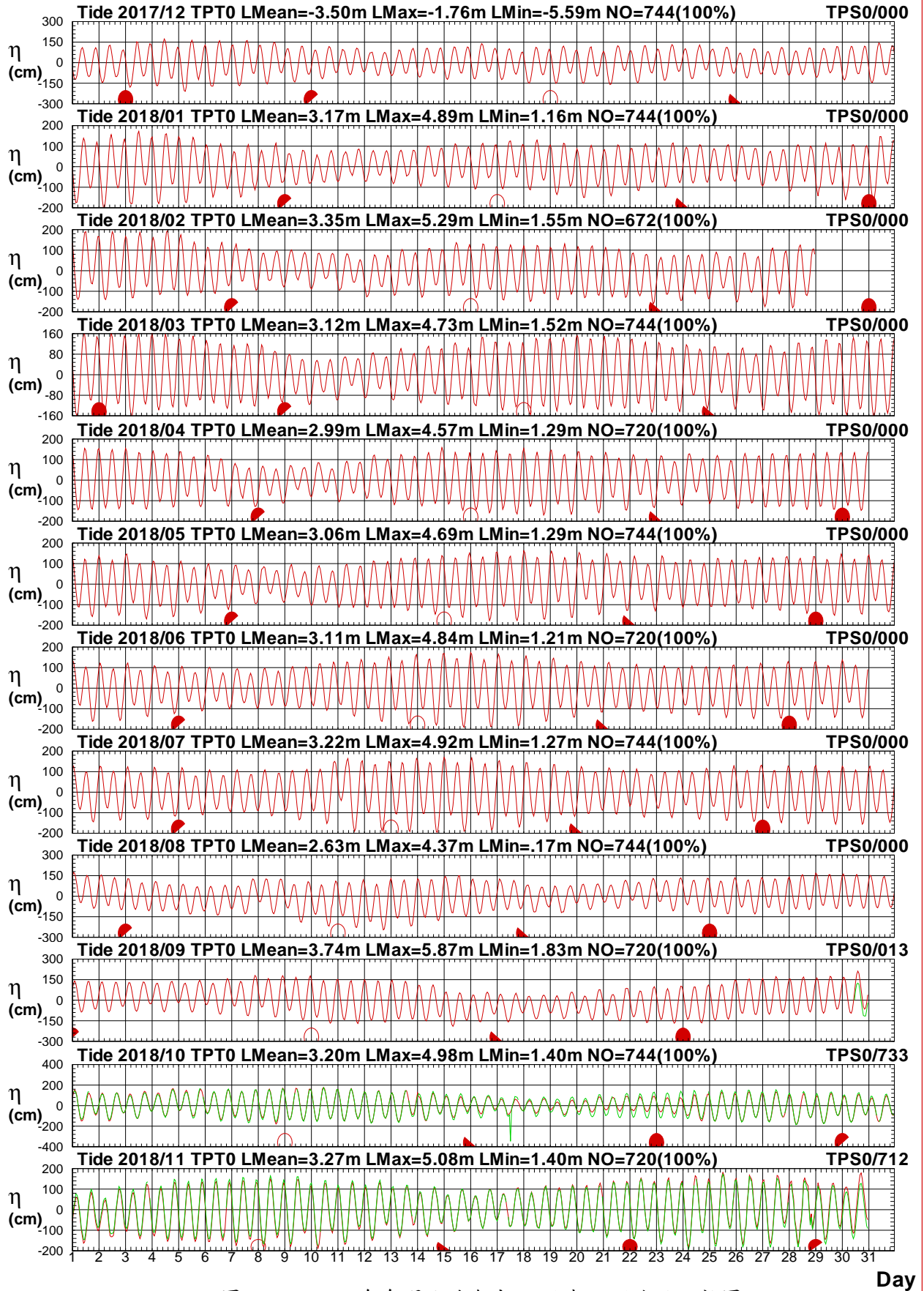


圖3.3.6 2018年每月北苗海域 T 站與 S 站潮位比較圖

T17CTPT0.1HA T17CTPS0.1H0 T181TPT0.1HA T181TPS0.1H0 T182TPT0.1HA T182TPS0.1H0  
 T183TPT0.1HA T183TPS0.1H0 T184TPT0.1HA T184TPS0.1H0 T185TPT0.1HA T185TPS0.1H0

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### 3.4 2018 年北苗海域**主要測站 2**(修補後)與 **其他測站**(修補前)潮位歷線比較圖



# Tidal Level in Pei-Miao Seas of TPQ0 at 2018

1 ○ 8 ● 15 ● 22 ●

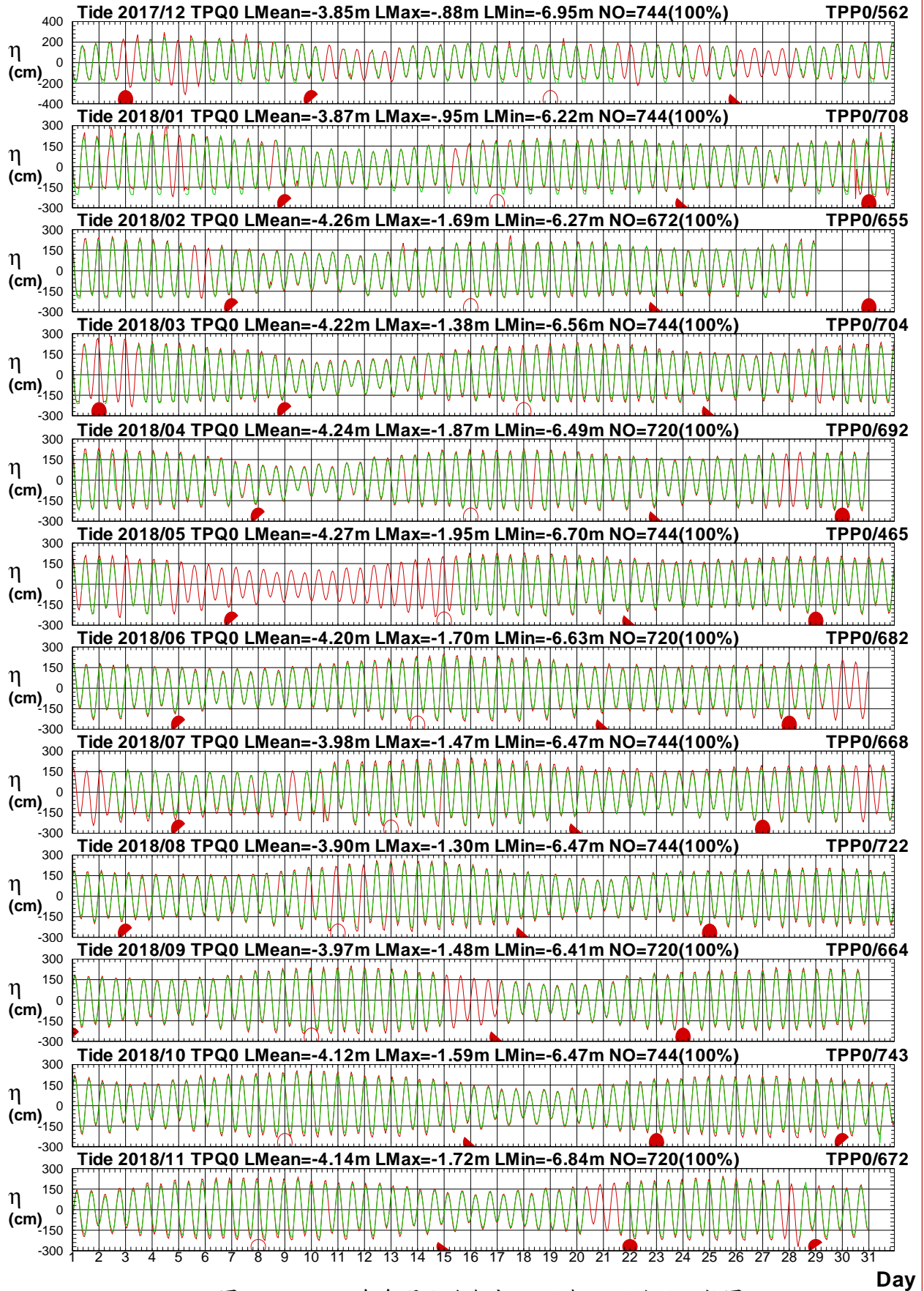


圖3.4.1 2018年每月北苗海域 Q 站與 P 站潮位比較圖

T17CTPQ0.1HA T17CTPP0.1H0 T181TPQ0.1HA T181TPP0.1H0 T182TPQ0.1HA T182TPP0.1H0  
 T183TPQ0.1HA T183TPP0.1H0 T184TPQ0.1HA T184TPP0.1H0 T185TPQ0.1HA T185TPP0.1H0

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# Tidal Level in Pei-Miao Seas of TPQ0 at 2018

1 ○ 8 ● 15 ● 22 ●

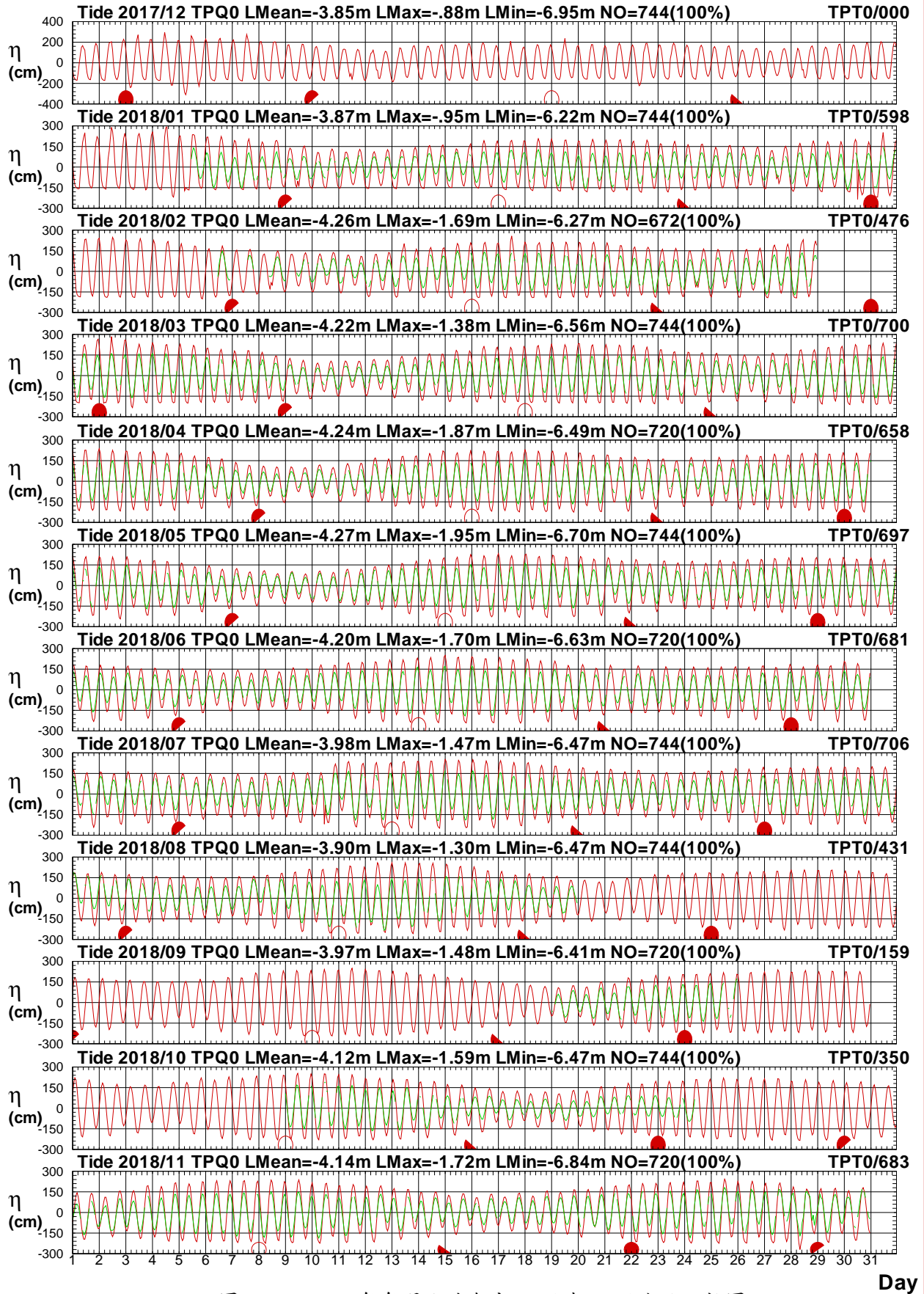


圖3.4.2 2018年每月北苗海域 Q 站與 T 站潮位比較圖

T17CTPQ0.1HA T17CTPT0.1H0 T181TPQ0.1HA T181TPT0.1H0 T182TPQ0.1HA T182TPT0.1H0  
T183TPQ0.1HA T183TPT0.1H0 T184TPQ0.1HA T184TPT0.1H0 T185TPQ0.1HA T185TPT0.1H0

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### 3.5 2018 年北苗海域**主要測站 3**(修補後)與 **其他測站**(修補前)潮位歷線比較圖



# Tidal Level in Pei-Miao Seas of TPF0 at 2018

1 ○ 8 ● 15 ● 22 ●

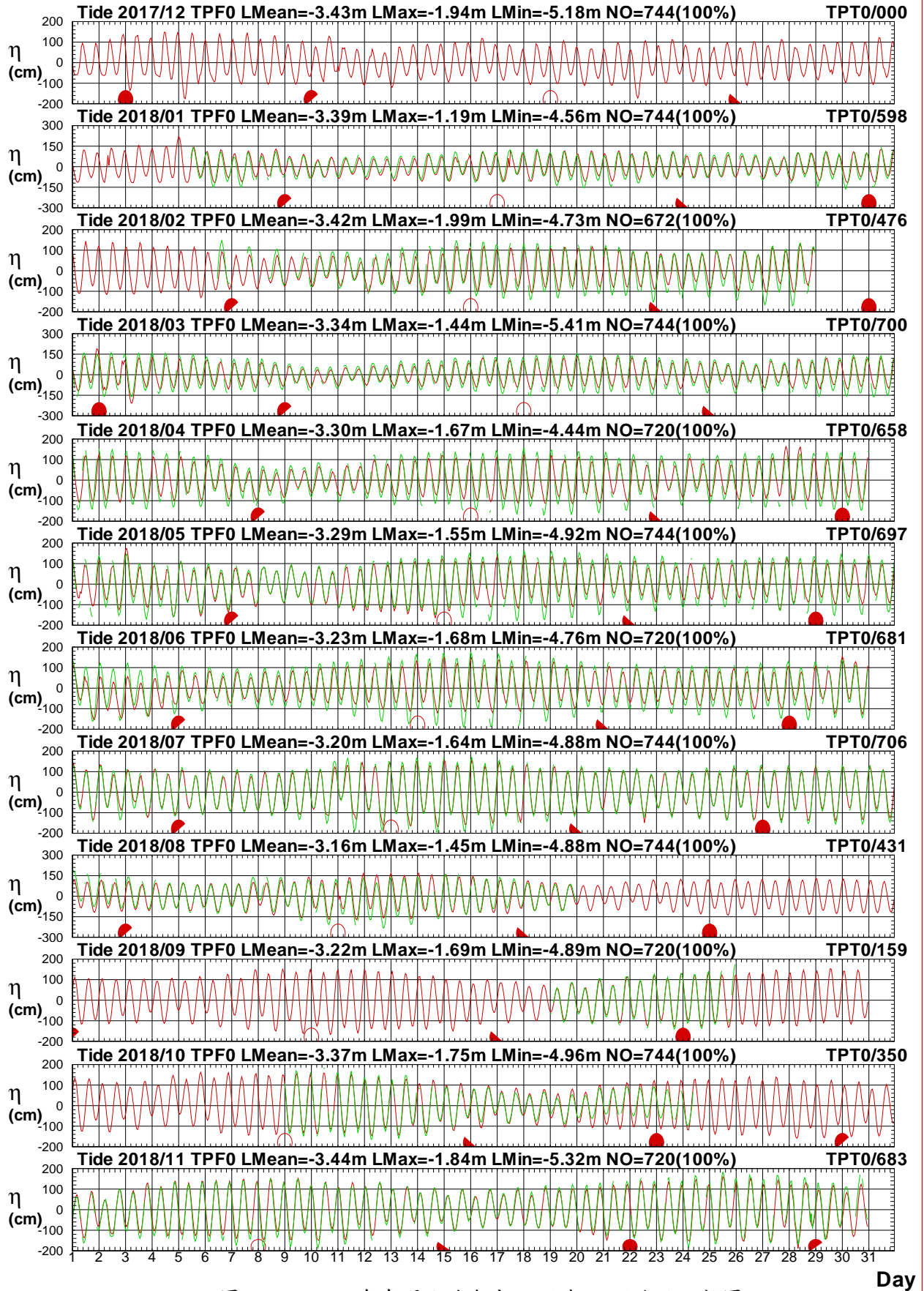


圖3.5.1 2018年每月北苗海域 F 站與 T 站潮位比較圖

T17CTPF0.1HA T17CTPT0.1H0 T181TPF0.1HA T181TPT0.1H0 T182TPF0.1HA T182TPT0.1H0  
 T183TPF0.1HA T183TPT0.1H0 T184TPF0.1HA T184TPT0.1H0 T185TPF0.1HA T185TPT0.1H0

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# Tidal Level in Pei-Miao Seas of TPF0 at 2018

1 ○ 8 ● 15 ● 22 ●

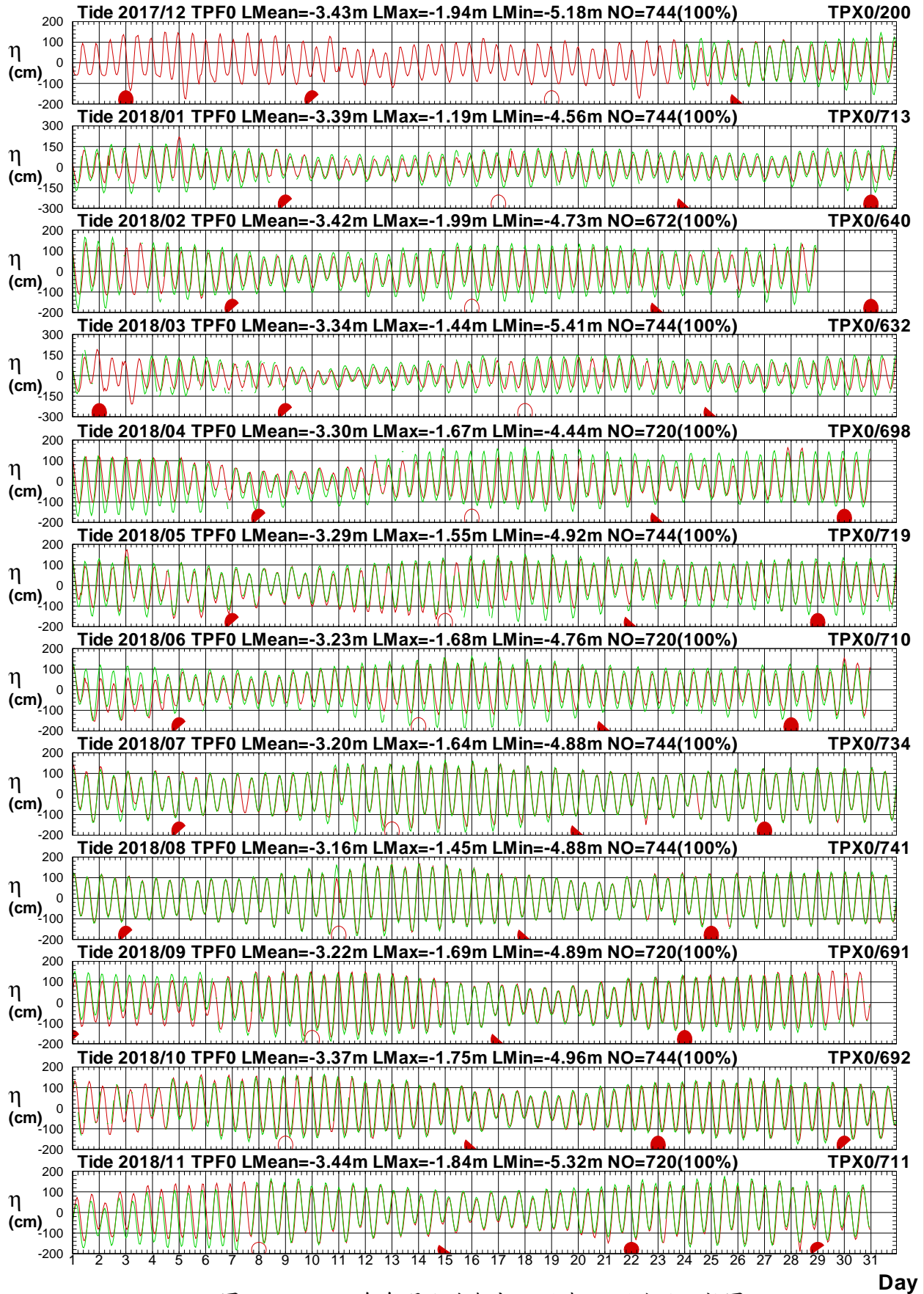


圖3.5.2 2018年每月北苗海域 F 站與 X 站潮位比較圖

T17CTPF0.1HA T17CTPX0.1H0 T181TPF0.1HA T181TPX0.1H0 T182TPF0.1HA T182TPX0.1H0  
 T183TPF0.1HA T183TPX0.1H0 T184TPF0.1HA T184TPX0.1H0 T185TPF0.1HA T185TPX0.1H0

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# Tidal Level in Pei-Miao Seas of TPF0 at 2018

1 ○ 8 ● 15 ● 22 ●

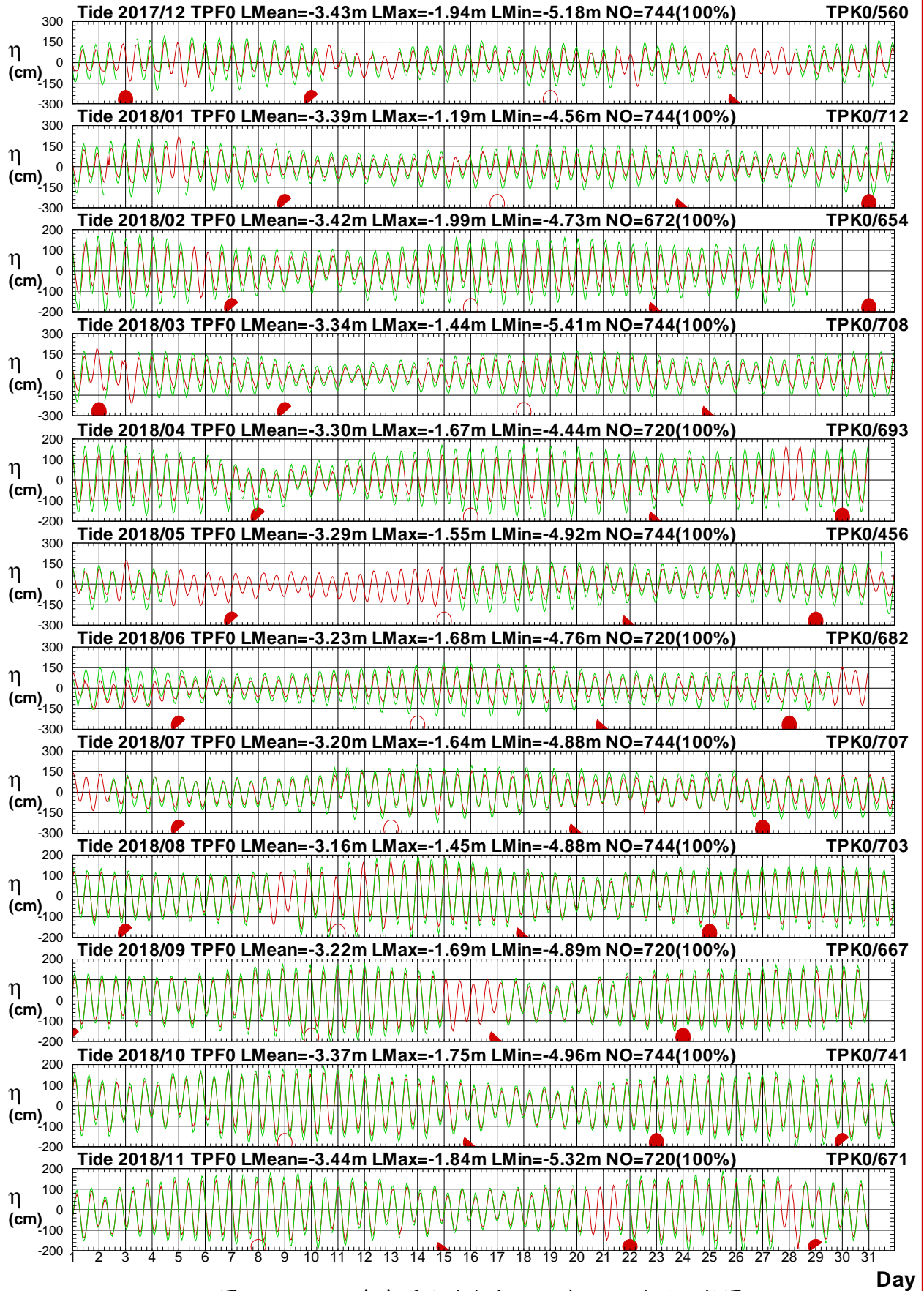


圖3.5.3 2018年每月北苗海域 F 站與 K 站潮位比較圖

T17CTPF0.1HA T17CTPK0.1H0 T181TPF0.1HA T181TPK0.1H0 T182TPF0.1HA T182TPK0.1H0  
 T183TPF0.1HA T183TPK0.1H0 T184TPF0.1HA T184TPK0.1H0 T185TPF0.1HA T185TPK0.1H0

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# Tidal Level in Pei-Miao Seas of TPF0 at 2018

1 ○ 8 ● 15 ● 22 ●

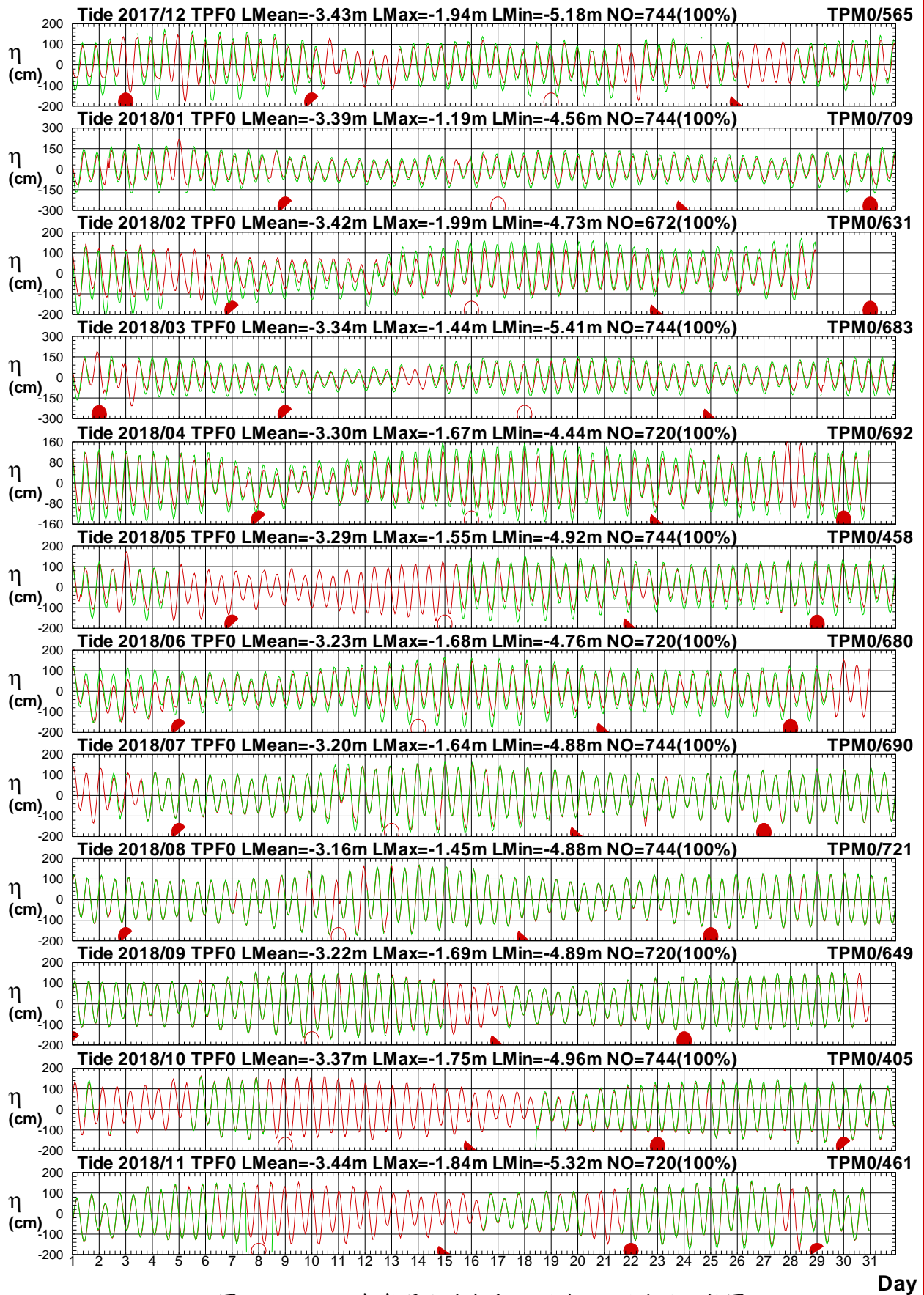


圖3.5.4 2018年每月北苗海域 F 站與 M 站潮位比較圖

T17CTPF0.1HA T17CTPM0.1H0 T181TPF0.1HA T181TPM0.1H0 T182TPF0.1HA T182TPM0.1H0  
 T183TPF0.1HA T183TPM0.1H0 T184TPF0.1HA T184TPM0.1H0 T185TPF0.1HA T185TPM0.1H0

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# Tidal Level in Pei-Miao Seas of TPF0 at 2018

1 ○ 8 ● 15 ● 22 ●

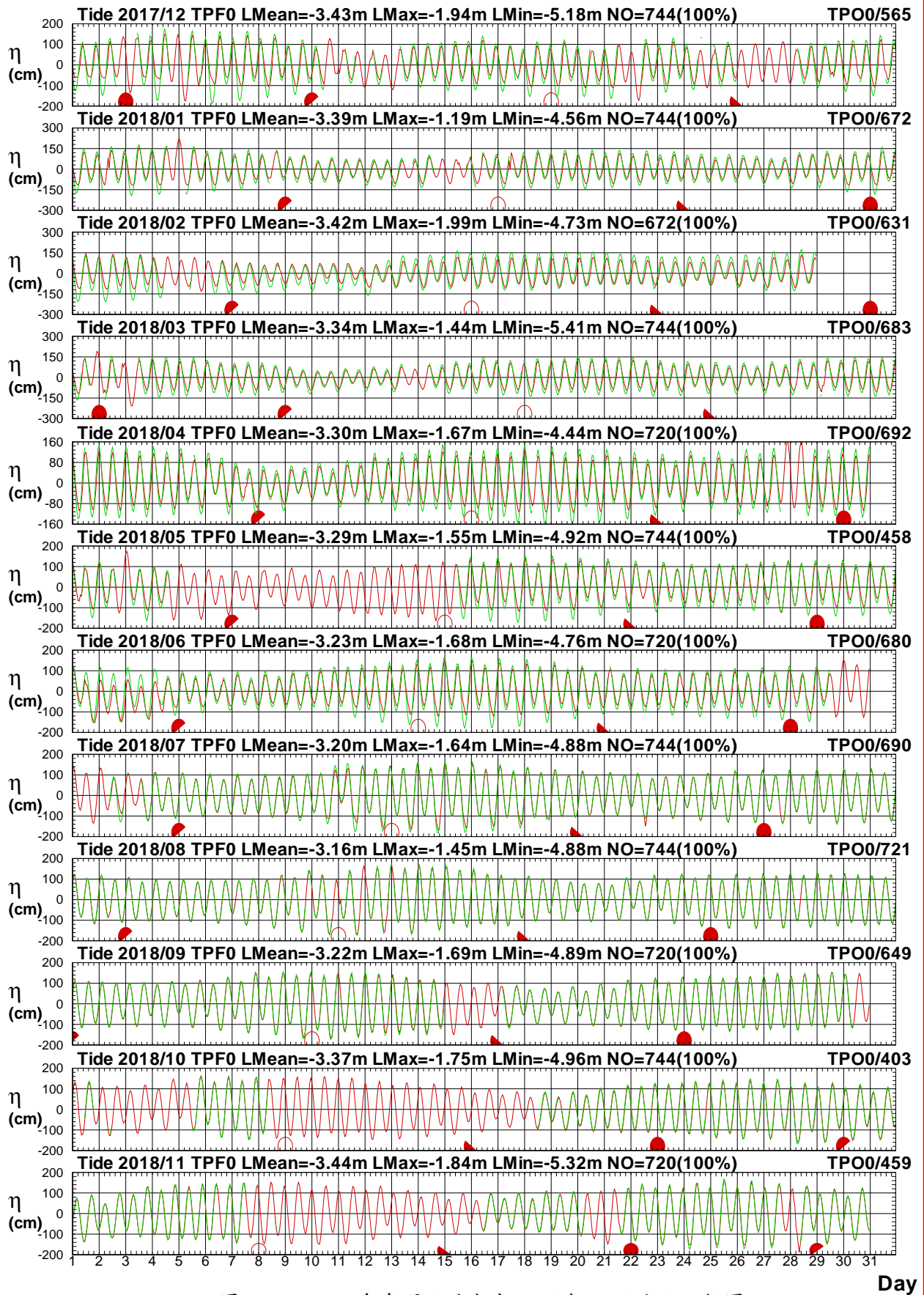


圖3.5.5 2018年每月北苗海域 F 站與 O 站潮位比較圖

T17CTPF0.1HA T17CTPO0.1H0 T181TPF0.1HA T181TPO0.1H0 T182TPF0.1HA T182TPO0.1H0  
T183TPF0.1HA T183TPO0.1H0 T184TPF0.1HA T184TPO0.1H0 T185TPF0.1HA T185TPO0.1H0

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# Tidal Level in Pei-Miao Seas of TPF0 at 2018

1 ○ 8 ● 15 ● 22 ●

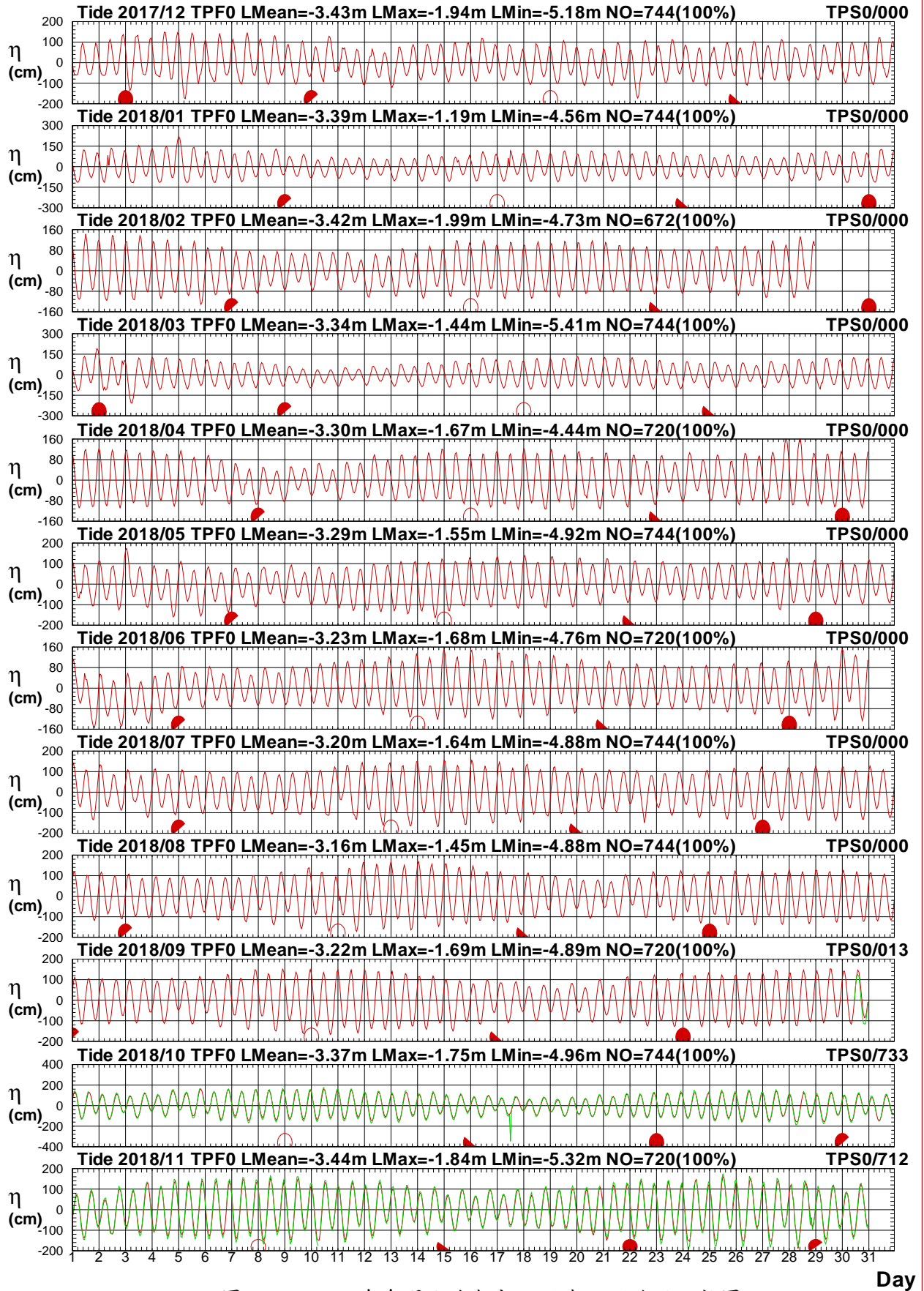


圖3.5.6 2018年每月北苗海域 F 站與 S 站潮位比較圖

T17CTPF0.1HA T17CTPS0.1H0 T181TPF0.1HA T181TPS0.1H0 T182TPF0.1HA T182TPS0.1H0  
 T183TPF0.1HA T183TPS0.1H0 T184TPF0.1HA T184TPS0.1H0 T185TPF0.1HA T185TPS0.1H0

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## 第四章 2018 年北苗海域觀測海流資料年報

北苗海域(新北~苗栗)海流之觀測僅有**測站 X** 1 個測站(測站位置如第 0 章圖 CP1)。

本年報利用調和分析方法**觀測海流可分解為：**

**(1)計算潮流(包括平均流)。**

**(2)計算殘(餘)流(或稱非潮流)。**

### 4.1 2018 年北苗海域觀測海流資料年報圖表

本章第 1 節**風力**年報資料處理之統計表包括：

1. 表 1.1.1a 2018 年**各觀測站**每月**觀測海流**資料記錄表。
2. 表 1.1.1b 2018 年**各觀測站**每月**計算潮流**資料記錄表。

本章第 2 節海流年報資料處理之統計表包括：

1. 2018 年**各觀測站**每月**觀測**流速及流向重要統計量統計表。
2. 2018 年**各觀測站**每月**計算潮流**流速及流向重要統計量統計表。
3. 2018 年**各觀測站**每月**計算殘(餘)流**流速及流向重要統計量統計表。

本章第 3 節海流年報資料處理之統計圖包括：

1. 2018 年**各觀測站**之**觀測海流**與**計算潮流**歷線比較圖。
2. 2018 年**各觀測站**之**觀測海流**與**計算殘(餘)流**歷線比較圖。

本章第 4 節海流年報資料處理之統計圖包括:2018 年各觀測站之觀測海流、計算潮流及計算殘流等 3 個向量分佈圖。

本章第 5 節海流年報資料處理之統計圖包括:2018 年各觀測站之觀測海流、計算潮流及計算殘流等 3 個向量行進圖。

表4.1.1a 2018年每月北苗海域各測站觀測海流資料紀錄表

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	北苗海域	北苗海域	北苗海域	北苗海域	北苗海域
年月/測站	X											
2017/12月	211(28.4%)	*	*	*	*	*	*	*	*	*	*	*
2018/ 1月	713(95.8%)	*	*	*	*	*	*	*	*	*	*	*
2018/ 2月	640(95.2%)	*	*	*	*	*	*	*	*	*	*	*
2018/ 3月	632(84.9%)	*	*	*	*	*	*	*	*	*	*	*
2018/ 4月	698(96.9%)	*	*	*	*	*	*	*	*	*	*	*
2018/ 5月	719(96.6%)	*	*	*	*	*	*	*	*	*	*	*
2018/ 6月	710(98.6%)	*	*	*	*	*	*	*	*	*	*	*
2018/ 7月	734(98.7%)	*	*	*	*	*	*	*	*	*	*	*
2018/ 8月	741(99.6%)	*	*	*	*	*	*	*	*	*	*	*
2018/ 9月	691(96.0%)	*	*	*	*	*	*	*	*	*	*	*
2018/10月	692(93.0%)	*	*	*	*	*	*	*	*	*	*	*
2018/11月	713(99.0%)	*	*	*	*	*	*	*	*	*	*	*
2018/冬季	1564(72.4%)	*	*	*	*	*	*	*	*	*	*	*
2018/春季	2049(92.8%)	*	*	*	*	*	*	*	*	*	*	*
2018/夏季	2185(99.0%)	*	*	*	*	*	*	*	*	*	*	*
2018/秋季	2096(96.0%)	*	*	*	*	*	*	*	*	*	*	*
2018/整年	7894(90.1%)	*	*	*	*	*	*	*	*	*	*	*
起始年月	2017/12	*	*	*	*	*	*	*	*	*	*	*
結束年月	2018/11	*	*	*	*	*	*	*	*	*	*	*

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表4.1.1b 2018年每月北苗海域計算潮流各測站資料紀錄表

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	北苗海域	北苗海域	北苗海域	北苗海域	北苗海域
年月/測站	X											
2017/12月	744(100%)	*	*	*	*	*	*	*	*	*	*	*
2018/ 1月	744(100%)	*	*	*	*	*	*	*	*	*	*	*
2018/ 2月	672(100%)	*	*	*	*	*	*	*	*	*	*	*
2018/ 3月	744(100%)	*	*	*	*	*	*	*	*	*	*	*
2018/ 4月	720(100%)	*	*	*	*	*	*	*	*	*	*	*
2018/ 5月	744(100%)	*	*	*	*	*	*	*	*	*	*	*
2018/ 6月	720(100%)	*	*	*	*	*	*	*	*	*	*	*
2018/ 7月	744(100%)	*	*	*	*	*	*	*	*	*	*	*
2018/ 8月	744(100%)	*	*	*	*	*	*	*	*	*	*	*
2018/ 9月	720(100%)	*	*	*	*	*	*	*	*	*	*	*
2018/10月	744(100%)	*	*	*	*	*	*	*	*	*	*	*
2018/11月	720(100%)	*	*	*	*	*	*	*	*	*	*	*
2018/冬季	2160(100%)	*	*	*	*	*	*	*	*	*	*	*
2018/春季	2208(100%)	*	*	*	*	*	*	*	*	*	*	*
2018/夏季	2208(100%)	*	*	*	*	*	*	*	*	*	*	*
2018/秋季	2184(100%)	*	*	*	*	*	*	*	*	*	*	*
2018/整年	8760(100%)	*	*	*	*	*	*	*	*	*	*	*
起始年月	2017/12	*	*	*	*	*	*	*	*	*	*	*
結束年月	2018/11	*	*	*	*	*	*	*	*	*	*	*

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## 4.2 2018 年北苗海域各測站觀測海流與 計算潮流(殘流)統計量統計表



表 4.2.1a 2018 年北苗海域 X 站觀測流速及流向重要統計量統計表

序 號	日期 (年/月)	觀測 點數	流速 平均值 (cm/s)	平均流 流速/流向 (cm/s)/(來向)	最大流 流速/流向 (cm/s)/(來向)	1/2節流 <25.7 (%)	1節流 ~51.4 (%)	2節流 ~103 (%)	大流 >103 (%)	流向 N~E (%)	流向 E~S (%)	流向 S~W (%)	流向 W~N (%)	主要流向 方向/百分比
1	2017/12	211( 28%)	47.2	3.1/NNE	97.5/ENE	19.9	35.5	44.5	.0	45.5	5.2	43.6	5.7	ENE/30.8%
2	2018/01	713( 96%)	52.6	4.9/NNW	125.5/NE	16.5	29.7	52.0	1.7	42.5	2.7	47.1	7.7	WSW/29.5%
3	2018/02	640( 95%)	50.2	5.5/NNW	120.4/ENE	19.2	30.3	49.8	.6	42.5	2.3	43.8	11.4	WSW/29.1%
4	2018/03	632( 85%)	50.9	3.5/NNE	142.5/ENE	19.8	28.6	49.2	2.4	43.7	5.5	44.6	6.2	ENE/31.2%
5	2018/04	698( 97%)	50.6	6.5/NNE	119.0/ENE	19.5	31.4	47.4	1.7	46.6	3.6	46.7	3.2	WSW/28.7%
6	2018/05	719( 97%)	46.8	8.7/NE	123.6/NE	22.4	34.1	42.6	1.0	48.4	3.8	43.4	4.5	WSW/26.0%
7	2018/06	710( 99%)	36.6	5.1/NNE	118.2/NE	39.3	32.5	27.9	.3	47.5	3.7	44.4	4.5	NE /27.0%
8	2018/07	734( 99%)	43.0	7.6/NNE	131.4/NE	26.4	37.5	35.4	.7	46.7	3.3	42.5	7.5	WSW/25.9%
9	2018/08	741(100%)	48.6	7.5/NNE	124.2/NE	20.1	34.7	43.7	1.5	47.6	2.4	46.3	3.6	NE /25.9%
10	2018/09	691( 96%)	50.2	4.1/NNE	142.9/NE	19.8	33.1	45.4	1.6	44.0	3.2	47.8	5.1	WSW/24.0%
11	2018/10	692( 93%)	49.8	3.5/NNE	114.9/ENE	23.1	28.3	47.4	1.2	43.6	2.3	49.3	4.8	WSW/23.8%
12	2018/11	713( 99%)	50.1	4.9/NNE	125.1/NE	20.8	29.2	48.8	1.3	45.2	3.2	48.4	3.2	WSW/26.1%
13	2018/冬	1564( 72%)	50.9	4.8/NNW	125.5/NE	18.1	30.8	50.1	1.0	42.9	2.9	45.3	9.0	WSW/29.2%
14	2018/春	2049( 93%)	49.4	6.4/NNE	142.5/ENE	20.6	31.5	46.3	1.7	46.3	4.2	44.9	4.5	WSW/27.5%
15	2018/夏	2185( 99%)	42.8	6.7/NNE	131.4/NE	28.5	34.9	35.8	.8	47.3	3.1	44.4	5.2	NE /25.4%
16	2018/秋	2096( 96%)	50.1	4.2/NNE	142.9/NE	21.2	30.2	47.2	1.3	44.3	2.9	48.5	4.3	WSW/24.7%
17	2018/年	7894( 90%)	48.0	5.3/NNE	142.9/NE	22.4	31.9	44.4	1.2	45.4	3.3	45.8	5.5	WSW/26.0%

4-2-1

表4.2.1b 2018年北苗海域 X 站潮流流速及流向重要統計量統計表

序 號	日期 (年/月)	觀測 點數	流速 平均值 (cm/s)	平均流 流速/流向 (cm/s)/(來向)	最大流 流速/流向 (cm/s)/(來向)	1/2節流 <25.7 (%)	1節流 ~51.4 (%)	2節流 ~103 (%)	大流 >103 (%)	流向 N~E (%)	流向 E~S (%)	流向 S~W (%)	流向 W~N (%)	主要流向 方向/百分比
1	2017/12	744(100%)	41.9	5.2/NNE	96.4/NE	26.9	38.3	34.8	.0	48.8	2.4	42.9	5.9	WSW/29.8%
2	2018/01	744(100%)	42.7	5.2/NNE	96.5/ENE	25.9	38.3	35.8	.0	48.8	2.6	42.9	5.8	WSW/29.4%
3	2018/02	672(100%)	41.4	5.4/NNE	97.1/ENE	26.5	40.3	33.2	.0	48.8	2.7	42.4	6.1	WSW/29.8%
4	2018/03	744(100%)	42.6	5.2/NNE	94.0/ENE	26.6	36.3	37.1	.0	49.3	2.2	42.6	5.9	WSW/29.4%
5	2018/04	720(100%)	41.9	5.3/NNE	91.1/ENE	28.5	35.4	36.1	.0	48.1	2.8	42.2	6.9	WSW/30.4%
6	2018/05	744(100%)	41.9	5.3/NNE	90.6/NE	29.7	34.7	35.6	.0	48.7	1.6	43.5	6.2	WSW/29.8%
7	2018/06	720(100%)	41.2	5.3/NNE	95.0/ENE	26.8	38.5	34.7	.0	48.6	2.4	43.1	6.0	WSW/30.0%
8	2018/07	744(100%)	41.2	5.3/NNE	97.4/ENE	27.0	40.3	32.7	.0	50.0	1.7	42.6	5.6	WSW/29.8%
9	2018/08	744(100%)	41.1	5.3/NNE	95.8/NE	27.4	39.8	32.8	.0	48.8	2.6	42.5	6.2	WSW/30.0%
10	2018/09	720(100%)	41.5	5.3/NNE	93.3/ENE	26.7	39.9	33.5	.0	48.8	1.7	43.2	6.4	WSW/29.7%
11	2018/10	744(100%)	41.5	5.4/NNE	91.7/ENE	28.2	37.2	34.5	.0	49.9	1.9	41.9	6.3	WSW/30.0%
12	2018/11	720(100%)	41.7	5.3/NNE	91.5/NE	28.1	37.2	34.7	.0	49.3	2.8	41.7	6.3	WSW/29.4%
13	2018/冬	2160(100%)	42.0	5.3/NNE	97.1/ENE	26.4	38.9	34.6	.0	48.8	2.5	42.7	5.9	WSW/29.7%
14	2018/春	2208(100%)	42.1	5.2/NNE	94.0/ENE	28.3	35.5	36.3	.0	48.7	2.2	42.8	6.3	WSW/29.9%
15	2018/夏	2208(100%)	41.2	5.3/NNE	97.4/ENE	27.1	39.5	33.4	.0	49.1	2.2	42.7	5.9	WSW/29.9%
16	2018/秋	2184(100%)	41.5	5.3/NNE	93.3/ENE	27.7	38.1	34.2	.0	49.3	2.1	42.3	6.3	WSW/29.7%
17	2018/年	8760(100%)	41.7	5.3/NNE	97.4/ENE	27.4	38.0	34.6	.0	49.0	2.3	42.6	6.1	WSW/29.8%

4-2-2



表4.2.1c 2018年北苗海域 X 站殘流流速及流向重要統計量統計表

序 號	日期 (年/月)	觀測 點數	流速 平均值 (cm/s)	平均流 流速/流向 (cm/s)/(來向)	最大流 流速/流向 (cm/s)/(來向)	1/2節流 <25.7 (%)	1節流 ~51.4 (%)	2節流 ~103 (%)	大流 >103 (%)	流向 N~E (%)	流向 E~S (%)	流向 S~W (%)	流向 W~N (%)	主要流向 方向/百分比
1	2017/12	211( 28%)	18.4	3.3/SW	125.2/SW	79.6	16.6	3.3	.5	28.9	13.3	49.8	8.1	WSW/21.8%
2	2018/01	713( 96%)	18.1	3.4/W	72.6/E	76.4	21.9	1.7	.0	28.6	9.4	44.0	18.0	WSW/22.4%
3	2018/02	640( 95%)	18.4	3.6/W	71.4/W	76.7	21.3	2.0	.0	30.2	10.6	41.9	17.3	WSW/20.8%
4	2018/03	632( 85%)	17.4	1.8/S	94.4/W	80.4	16.8	2.8	.0	31.8	19.9	35.4	12.8	ENE/15.0%
5	2018/04	698( 97%)	16.4	1.8/ENE	68.7/W	81.1	17.9	1.0	.0	39.5	15.0	35.7	9.7	ENE/16.2%
6	2018/05	719( 97%)	16.8	3.6/NE	59.5/NE	79.8	19.5	.7	.0	45.2	8.6	36.6	9.6	ENE/20.3%
7	2018/06	710( 99%)	18.3	1.0/SSE	67.7/ENE	76.5	21.0	2.5	.0	39.0	10.8	42.7	7.5	ENE/18.2%
8	2018/07	734( 99%)	19.2	2.4/NE	63.0/WSW	72.6	25.1	2.3	.0	42.9	6.5	37.1	13.5	ENE/18.4%
9	2018/08	741(100%)	16.3	2.3/NE	51.6/ENE	81.5	18.4	.1	.0	41.0	9.7	38.9	10.4	ENE/21.2%
10	2018/09	691( 96%)	17.0	1.1/SSW	73.1/WSW	81.6	17.1	1.3	.0	38.2	14.0	40.4	7.4	NE /15.3%
11	2018/10	692( 93%)	15.6	1.5/SSW	65.7/WSW	85.3	13.0	1.7	.0	35.5	15.6	41.9	6.9	SW /16.8%
12	2018/11	713( 99%)	15.4	.4/SSW	106.5/SSW	84.6	14.6	.7	.1	33.5	13.2	40.7	12.6	WSW/16.3%
13	2018/冬	1564( 72%)	18.3	3.3/W	125.2/SW	77.0	20.9	2.0	.1	29.3	10.4	43.9	16.4	WSW/21.7%
14	2018/春	2049( 93%)	16.8	1.6/ENE	94.4/W	80.4	18.1	1.5	.0	39.1	14.3	35.9	10.6	ENE/17.3%
15	2018/夏	2185( 99%)	17.9	1.5/ENE	67.7/ENE	76.9	21.5	1.6	.0	41.0	9.0	39.5	10.5	ENE/19.3%
16	2018/秋	2096( 96%)	16.0	1.0/SSW	106.5/SSW	83.8	14.9	1.2	.0	35.7	14.3	41.0	9.0	SW /14.1%
17	2018/年	7894( 90%)	17.2	.0/NE	125.2/SW	79.7	18.7	1.6	.0	36.8	12.1	39.8	11.3	WSW/16.3%

4-2-3



### 4.3 2018 年北苗海域各測站觀測海流與 計算潮流(殘流)歷線比較圖



# Current Speed in Tai-Pei Harbor of TPX0 at 2018

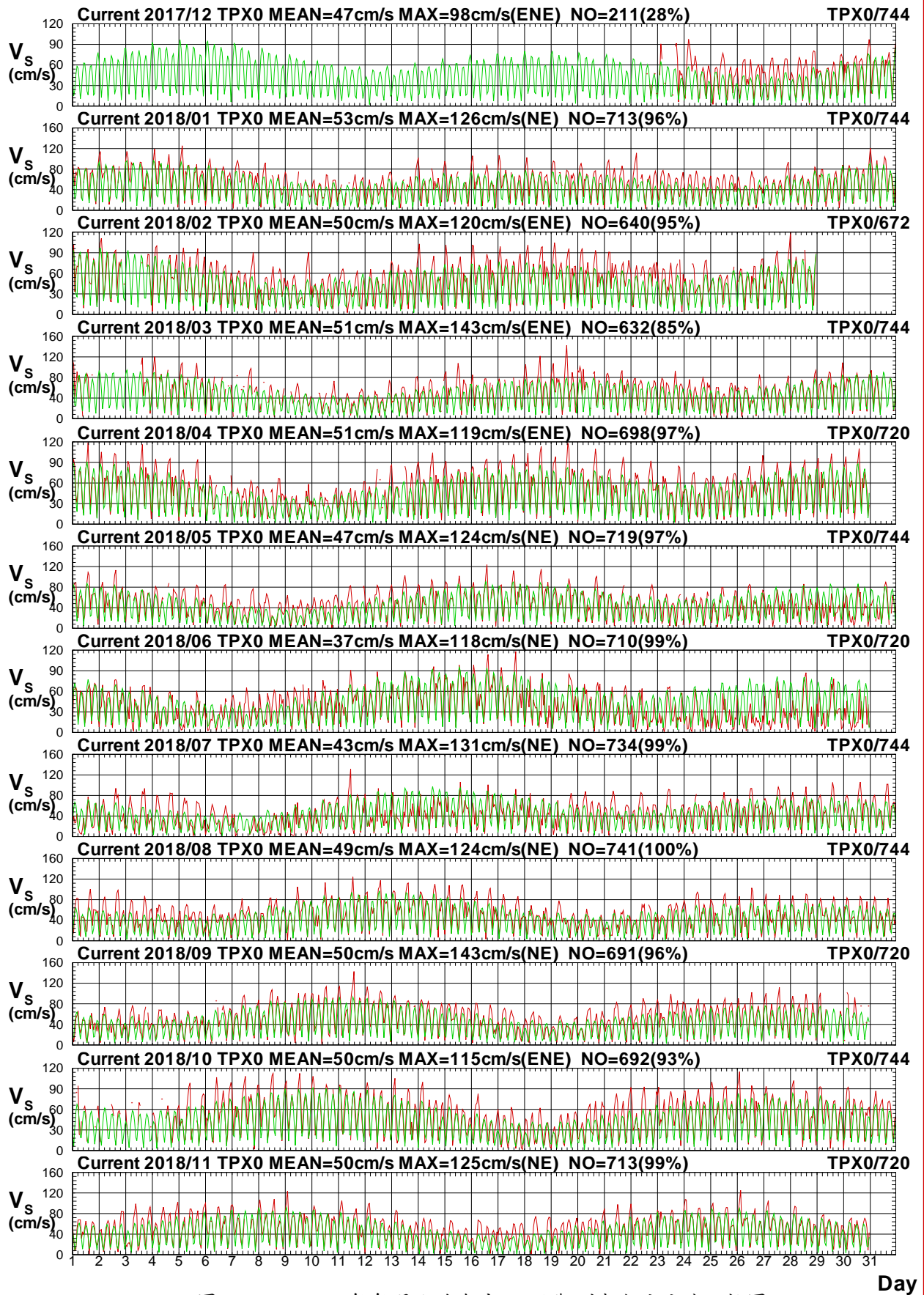


圖4.3.1a 2018年每月北苗海域 X 站觀測與潮流流速比較圖

C17CTPX0.1H0 C17CTPX0.1HD C181TPX0.1H0 C181TPX0.1HD C182TPX0.1H0 C182TPX0.1HD  
 C183TPX0.1H0 C183TPX0.1HD C184TPX0.1H0 C184TPX0.1HD C185TPX0.1H0 C185TPX0.1HD

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# Current Direction in Tai-Pei Harbor of TPX0 at 2018

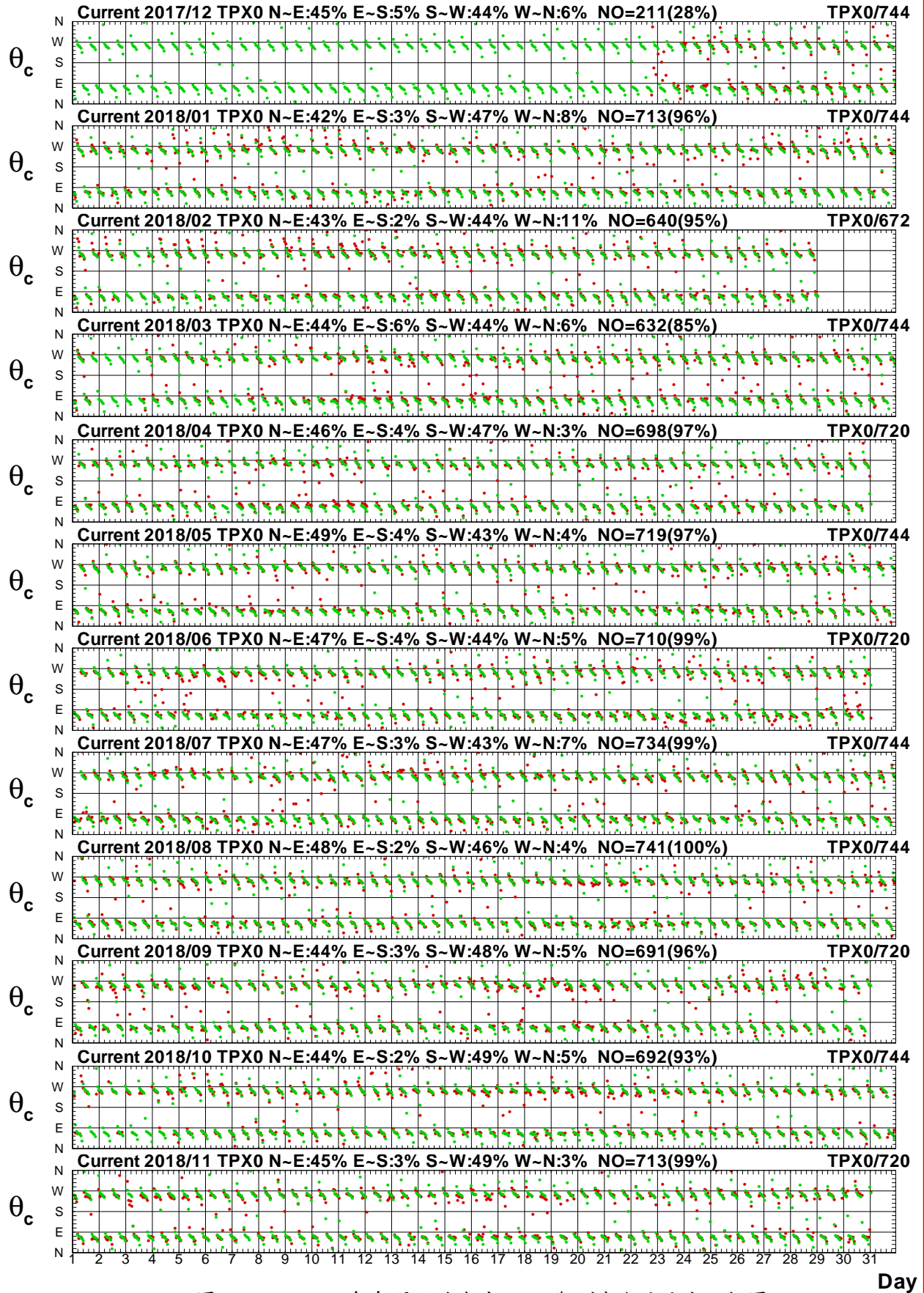


圖4.3.1b 2018年每月北苗海域 X 站觀測與潮流流向比較圖

C17CTPX0.1H0 C17CTPX0.1HD C181TPX0.1H0 C181TPX0.1HD C182TPX0.1H0 C182TPX0.1HD  
 C183TPX0.1H0 C183TPX0.1HD C184TPX0.1H0 C184TPX0.1HD C185TPX0.1H0 C185TPX0.1HD

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# Current Speed in Tai-Pei Harbor of TPX0 at 2018

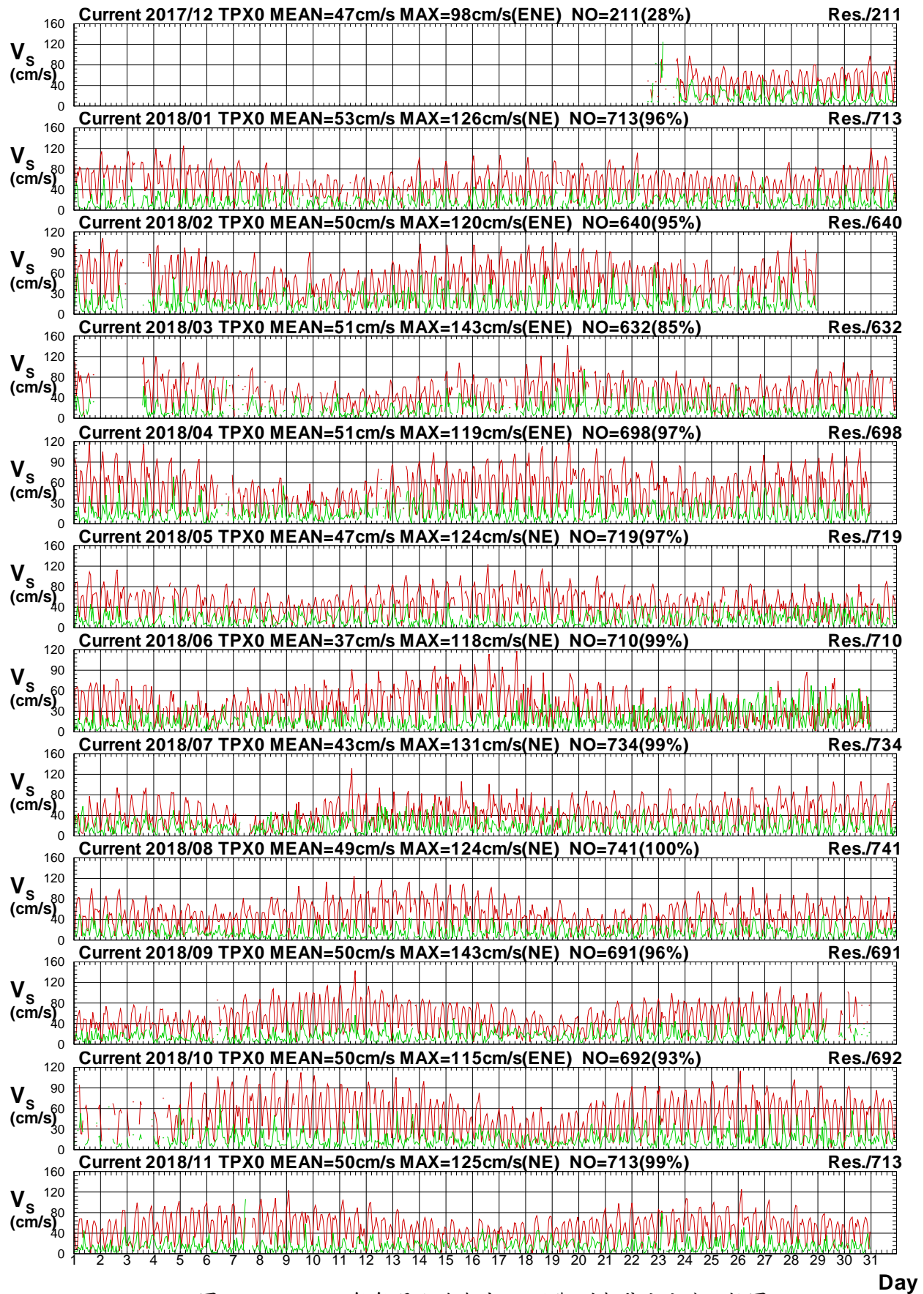


圖4.3.2a 2018年每月北苗海域 X 站觀測與殘流流速比較圖

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 C183TPX0.1H0 C183TPX0.1HR C184TPX0.1H0 C184TPX0.1HR C185TPX0.1H0 C185TPX0.1HR

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# Current Direction in Tai-Pei Harbor of TPX0 at 2018

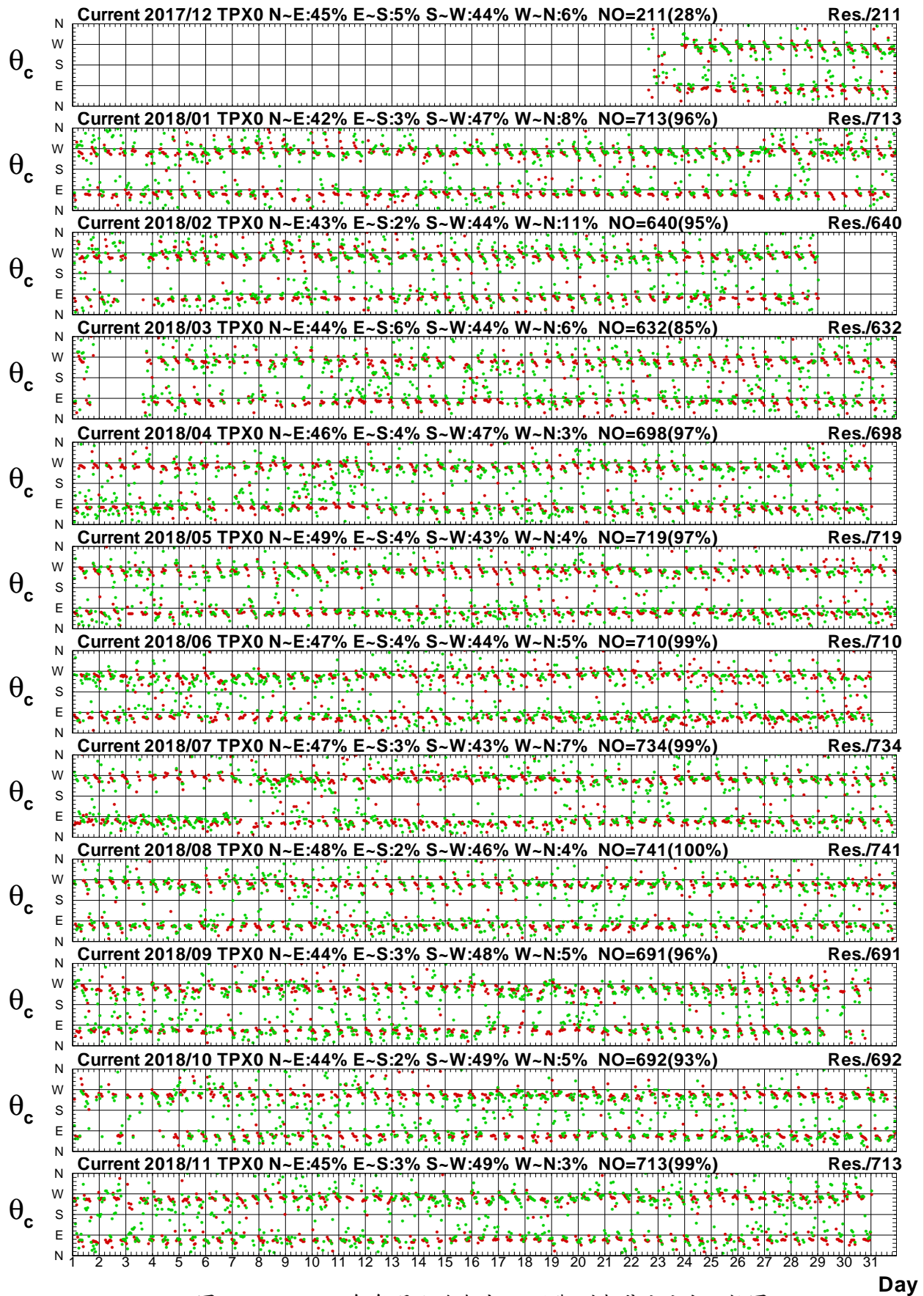


圖4.3.2b 2018年每月北苗海域 X 站觀測與殘流流向比較圖

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 C183TPX0.1H0 C183TPX0.1HR C184TPX0.1H0 C184TPX0.1HR C185TPX0.1H0 C185TPX0.1HR

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#### 4.4 2018 年北苗海域各測站觀測海流與 計算潮流(殘流)向量分佈圖



# Distribution of Current Vectors

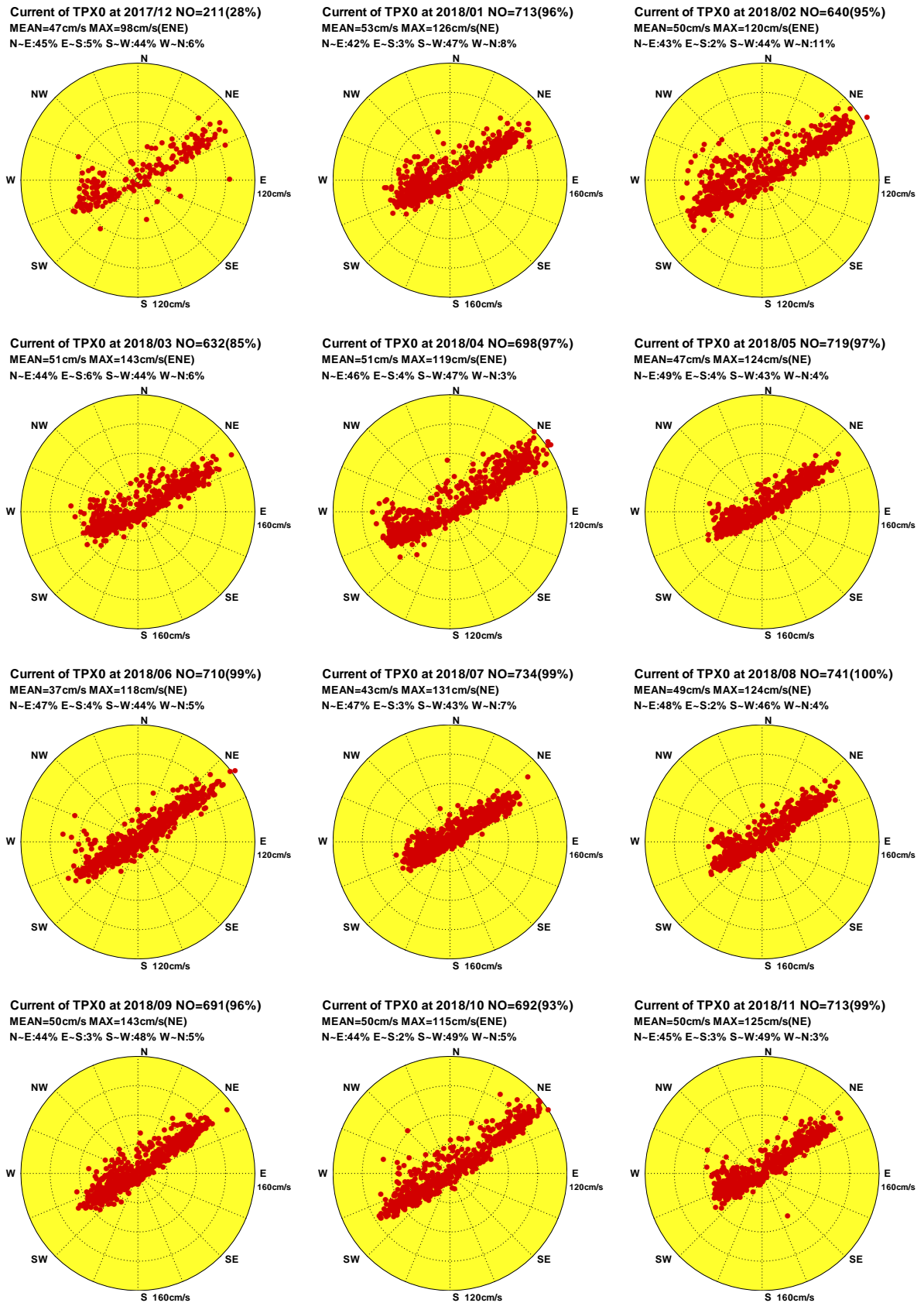


圖4.4.1a 2018年北苗海域每月測站 X 觀測海流向量分佈圖

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 C186TPX0.1H0 C187TPX0.1H0 C188TPX0.1H0 C189TPX0.1H0 C18ATPX0.1H0 C18BTPX0.1H0

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# Distribution of Current Vectors

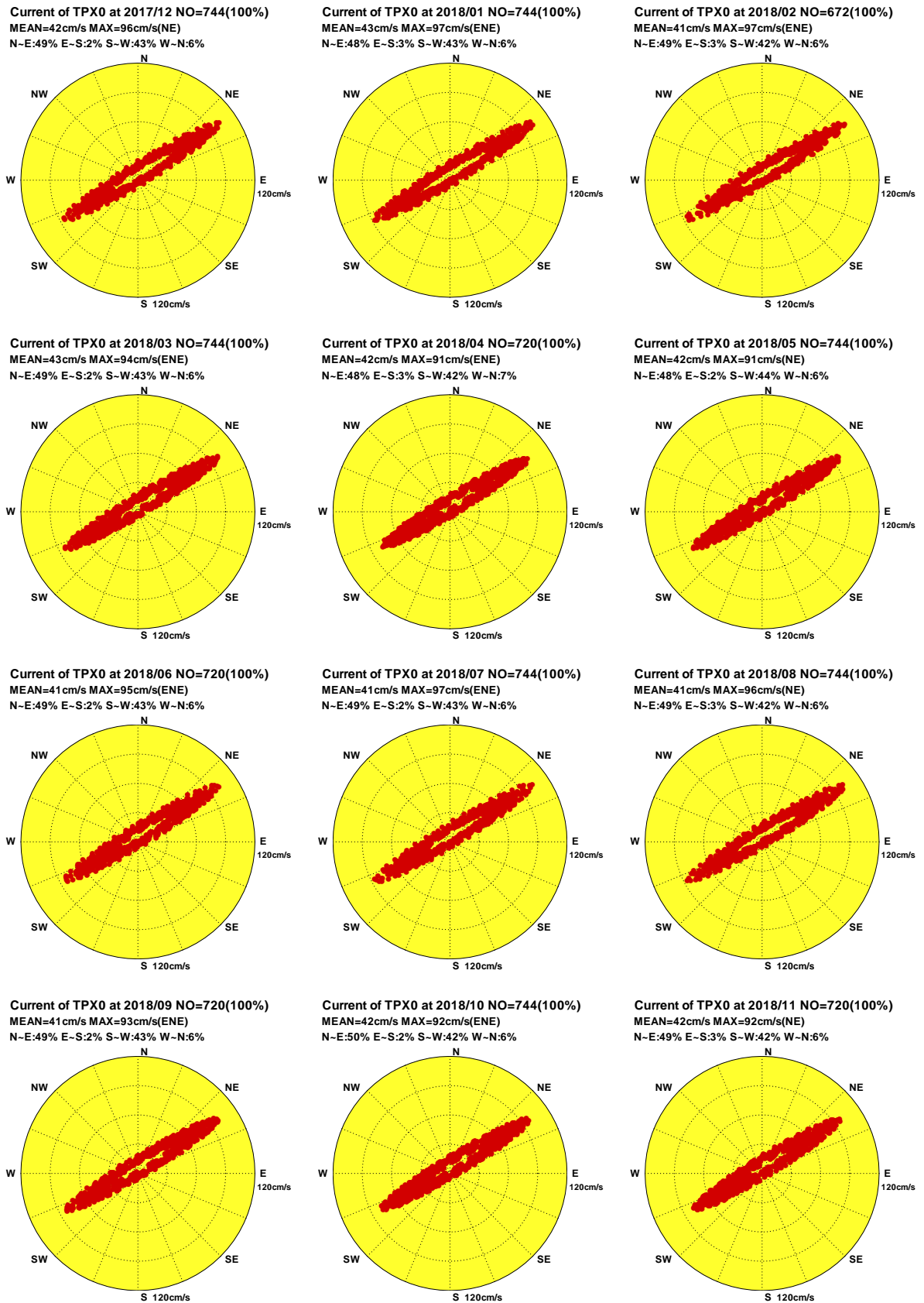


圖4.4.1b 2018年北苗海域每月測站 X 計算潮流向量分佈圖

C17CTPX0.1HD C181TPX0.1HD C182TPX0.1HD C183TPX0.1HD C184TPX0.1HD C185TPX0.1HD  
 C186TPX0.1HD C187TPX0.1HD C188TPX0.1HD C189TPX0.1HD C18ATPX0.1HD C18BTPX0.1HD

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# Distribution of Current Vectors

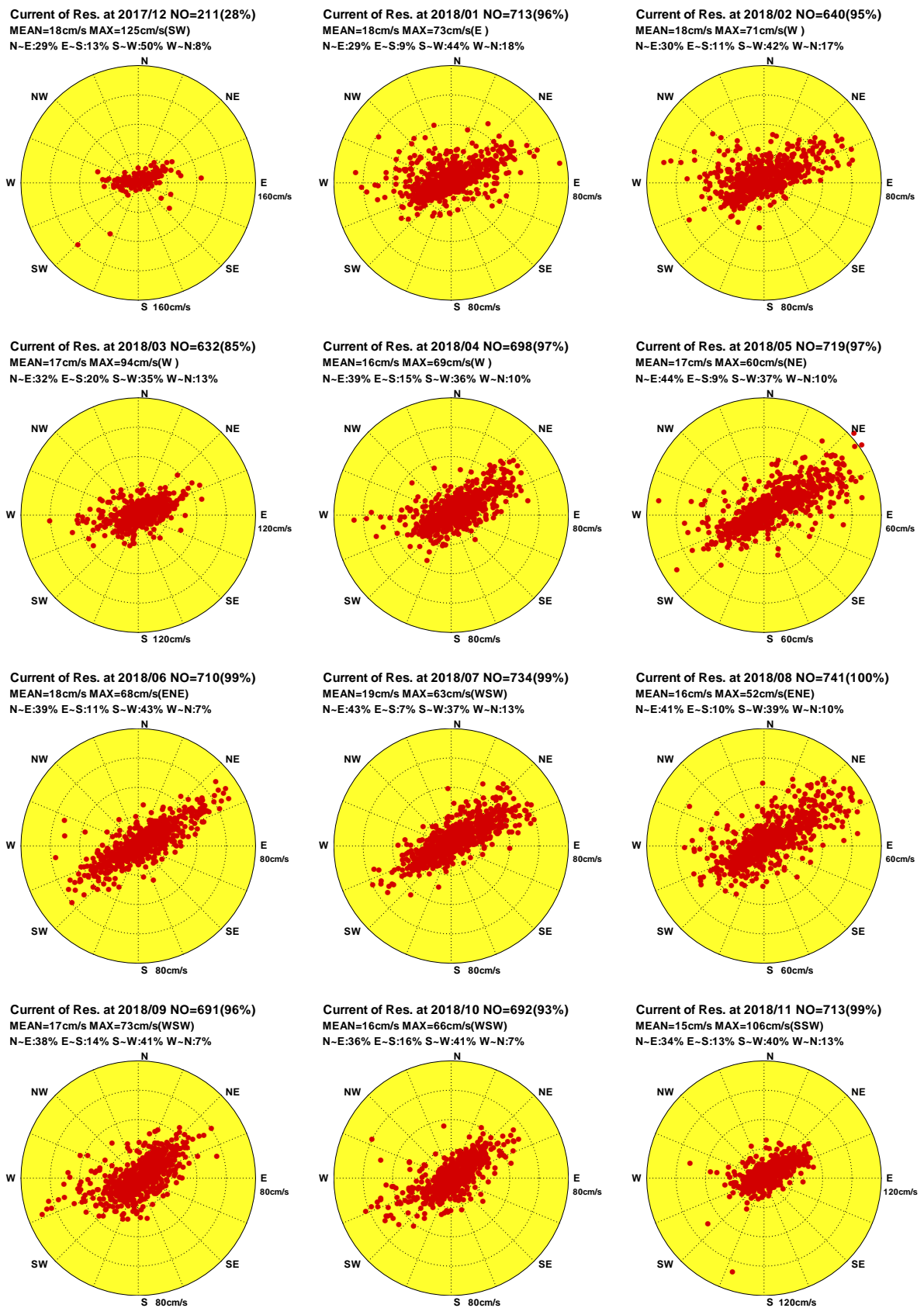


圖4.4.1c 2018年北苗海域每月測站 X 計算殘流向量分佈圖

C17CTPX0.1HR C181TPX0.1HR C182TPX0.1HR C183TPX0.1HR C184TPX0.1HR C185TPX0.1HR  
 C186TPX0.1HR C187TPX0.1HR C188TPX0.1HR C189TPX0.1HR C18ATPX0.1HR C18BTPX0.1HR

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## 4.5 2018 年北苗海域各測站觀測海流與 計算潮流(殘流)向量行進圖





# Progressive Vector Diagram of Current

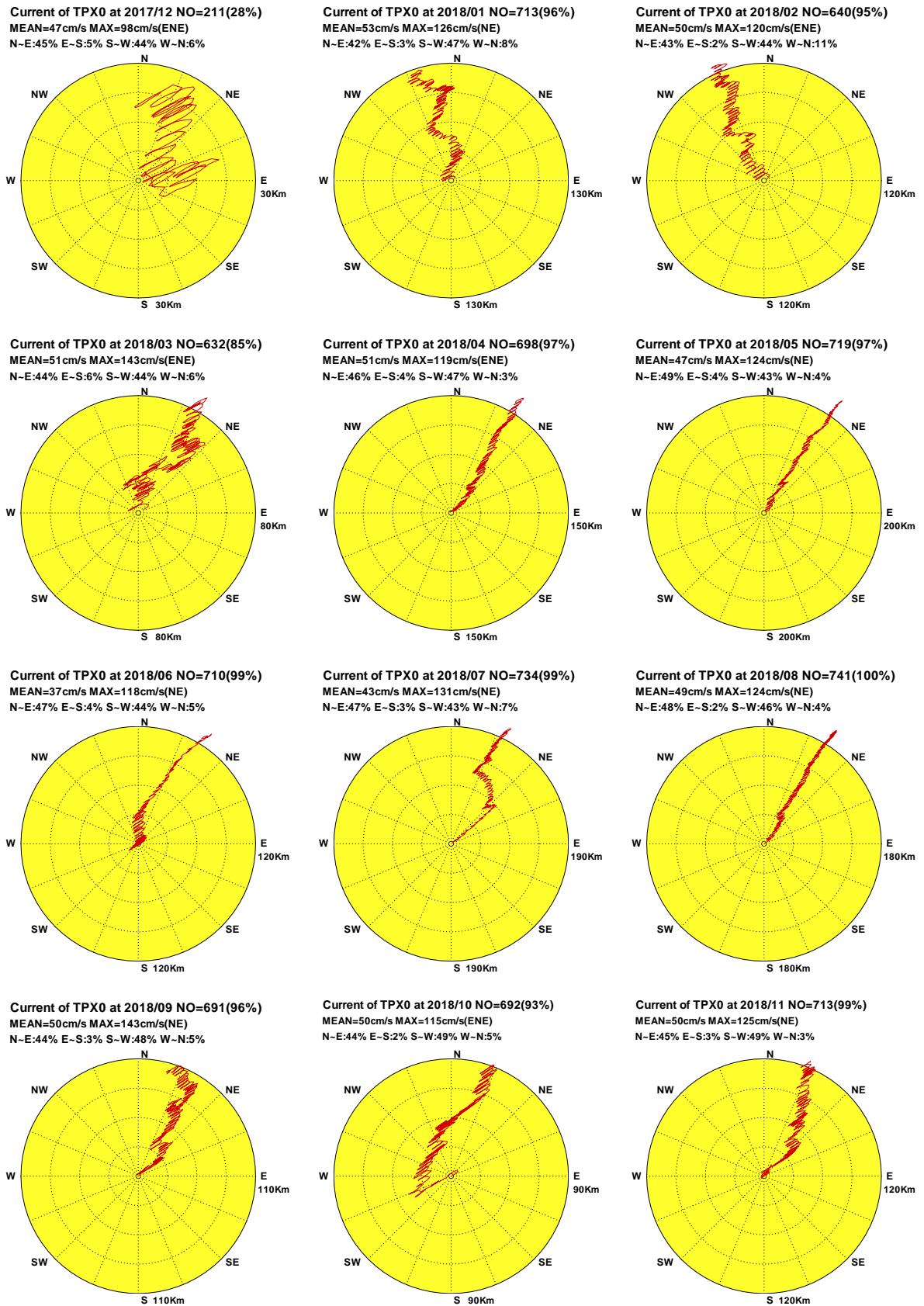


圖4.5.1a 2018年北苗海域每月測站 X 觀測海流向量行進圖

C17CTPX0.1H0 C181TPX0.1H0 C182TPX0.1H0 C183TPX0.1H0 C184TPX0.1H0 C185TPX0.1H0  
C186TPX0.1H0 C187TPX0.1H0 C188TPX0.1H0 C189TPX0.1H0 C18ATPX0.1H0 C18BTPX0.1H0

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# Progressive Vector Diagram of Current

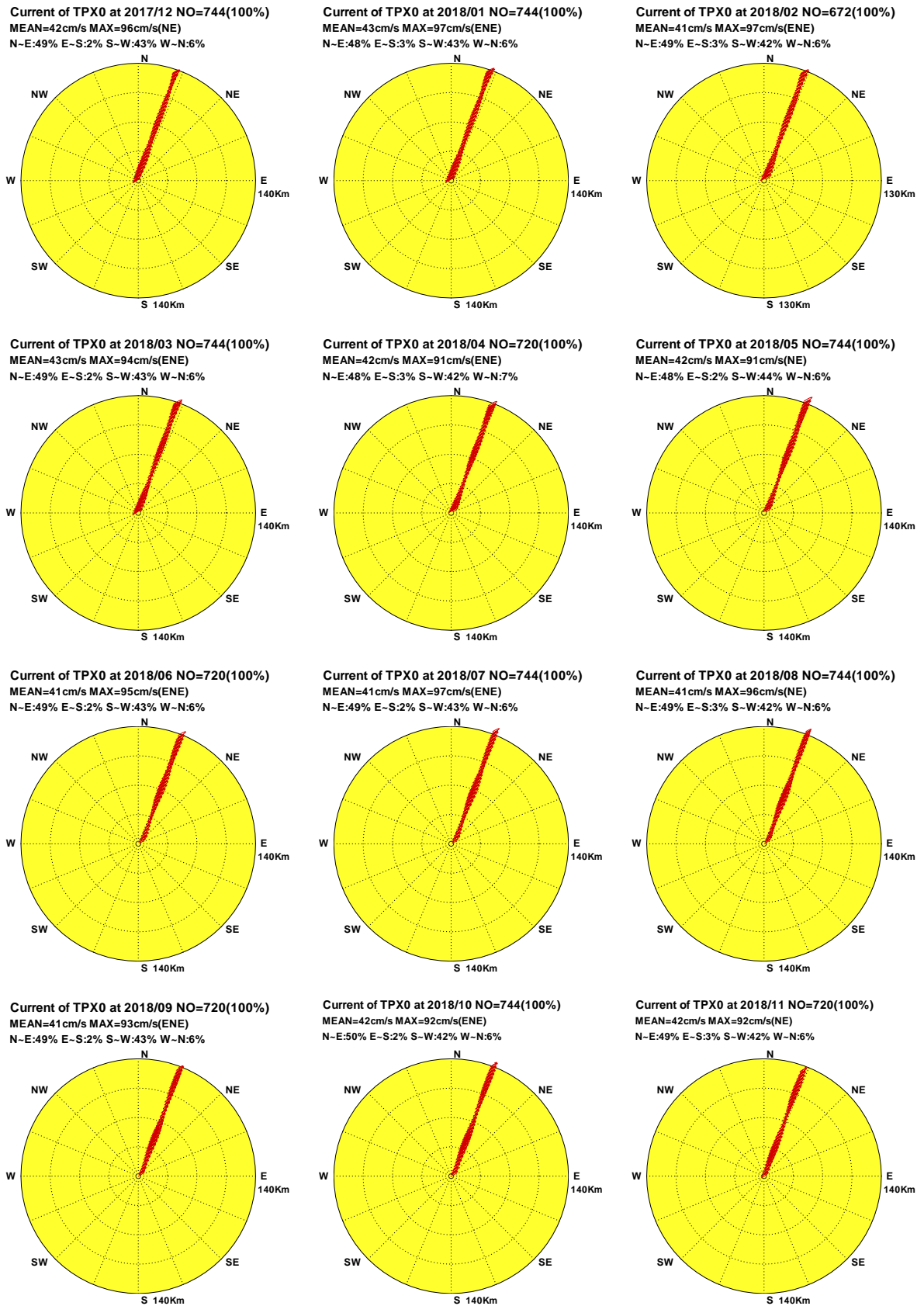


圖4.5.1b 2018年北苗海域每月測站 X 計算潮流向量行進圖

C17CTPX0.1HD C181TPX0.1HD C182TPX0.1HD C183TPX0.1HD C184TPX0.1HD C185TPX0.1HD  
 C186TPX0.1HD C187TPX0.1HD C188TPX0.1HD C189TPX0.1HD C18ATPX0.1HD C18BTPX0.1HD

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# Progressive Vector Diagram of Current

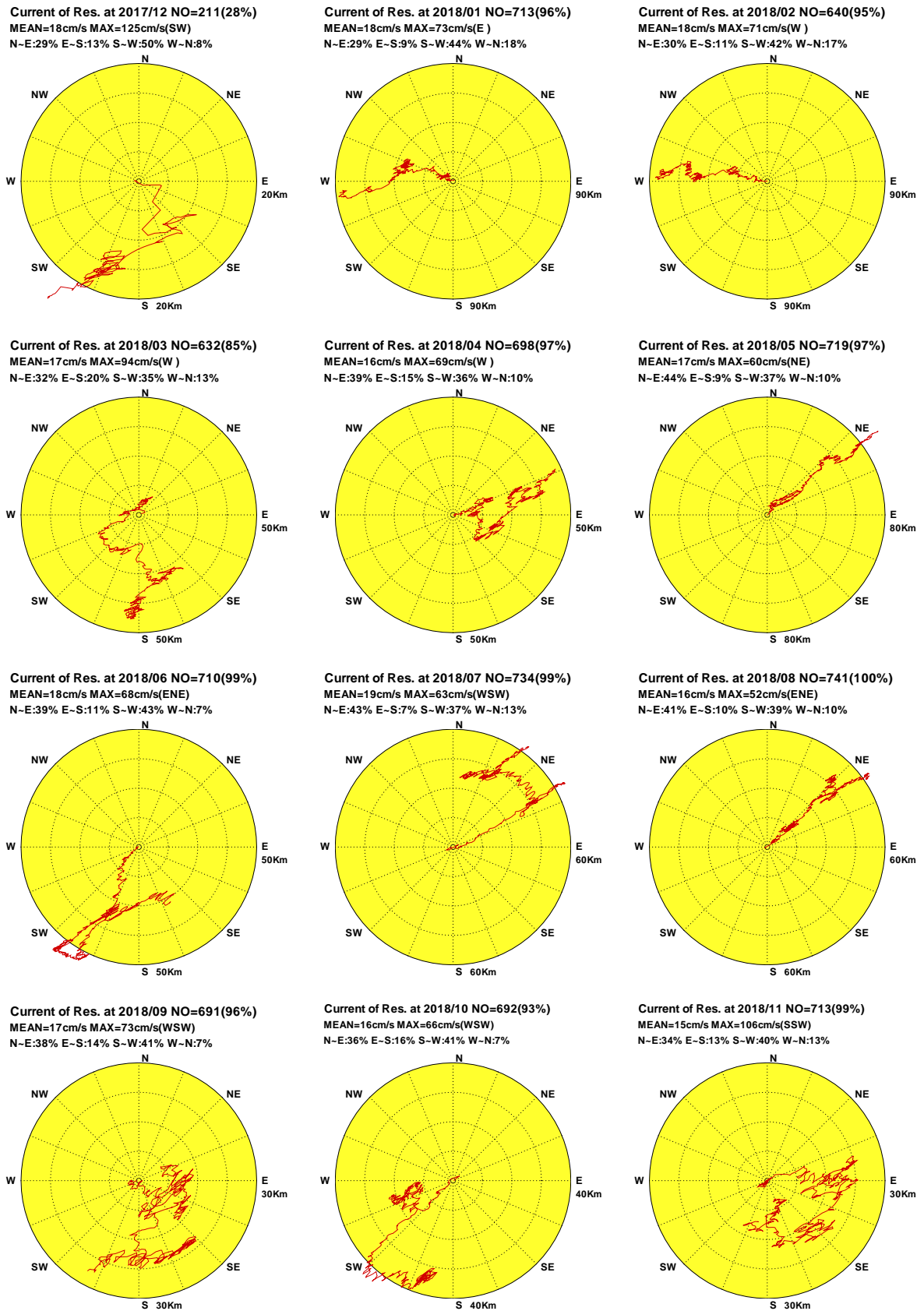


圖4.5.1c 2018年北苗海域每月測站 X 計算殘流向量行進圖

C17CTPX0.1HR C181TPX0.1HR C182TPX0.1HR C183TPX0.1HR C184TPX0.1HR C185TPX0.1HR  
 C186TPX0.1HR C187TPX0.1HR C188TPX0.1HR C189TPX0.1HR C18ATPX0.1HR C18BTPX0.1HR

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