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2017 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

中華民國 108 年 2 月

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2017 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)

著者：蘇青和、李俊穎、傅怡釗、陳鈞彥
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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2017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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2017 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

2017 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。

2017 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。

2017 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	9	2	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 2017 年。

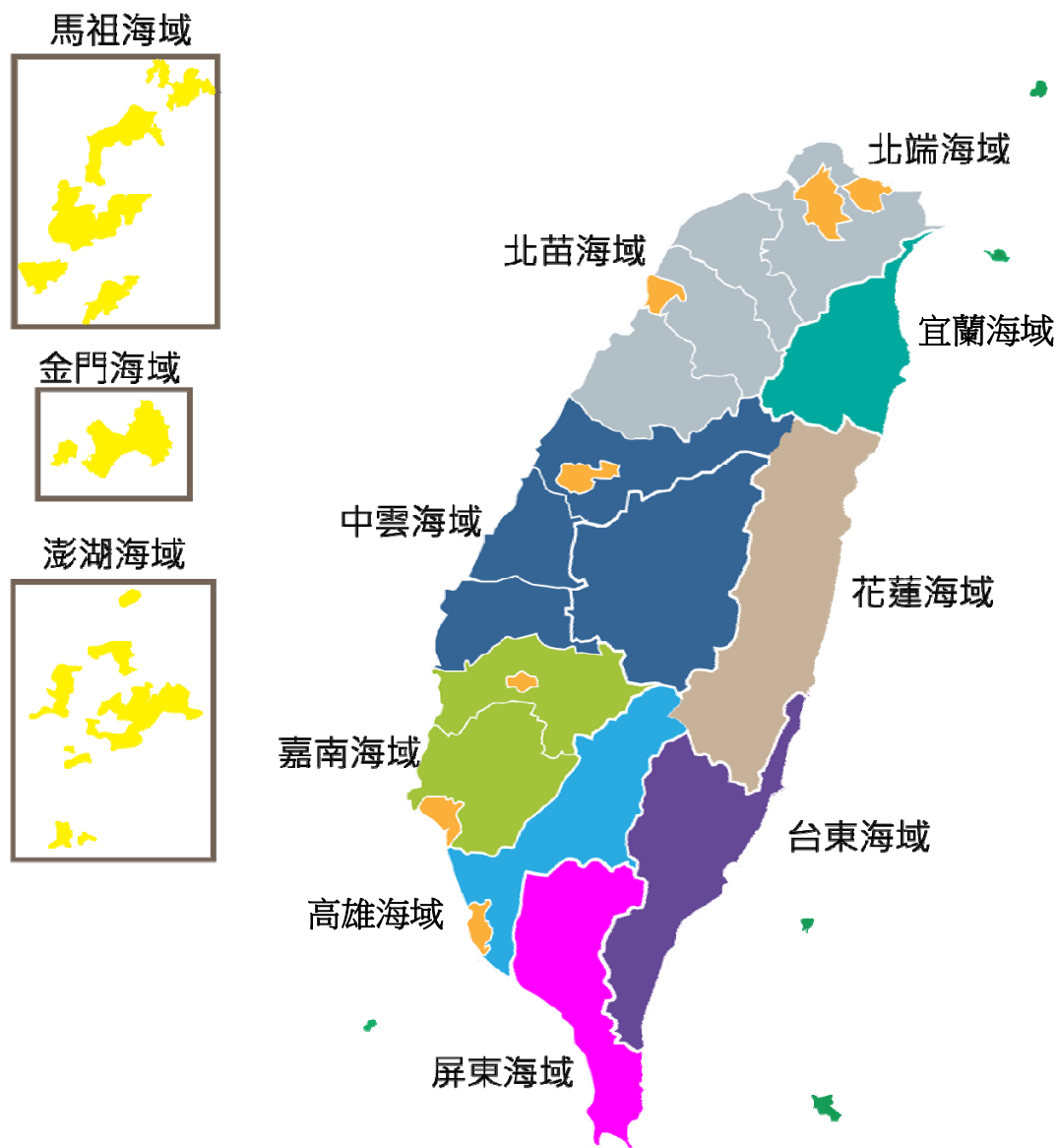


圖 A1 臺灣 12 海域區分示意圖

2017 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 2017 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	2005/01-2017/11(觀測中)	港研中心	新觀測樁
W	25°09'24"N	121°22'19"E	2009/08-2017/11(觀測中)	港研中心	臺北港區
E	25°09'50"N	121°26'54"E	2004/01-2017/11(觀測中)	中央氣象局	淡水
Y	24°45'39"N	120°50'38"E	1997/06-2017/11(觀測中)	中央氣象局	新竹浮標站
P	24°51'01"N	120°54'44"E	2015/01-2017/11(觀測中)	中央氣象局	新竹
Q	24°39'05"N	120°46'18"E	2015/01-2017/11(觀測中)	中央氣象局	外埔
H	25°00'57"N	121°02'36"E	2014/08-2017/11(觀測中)	中央氣象局	新屋
I	24°49'48"N	121°00'22"E	2013/11-2017/11(觀測中)	中央氣象局	新竹

北苗海域

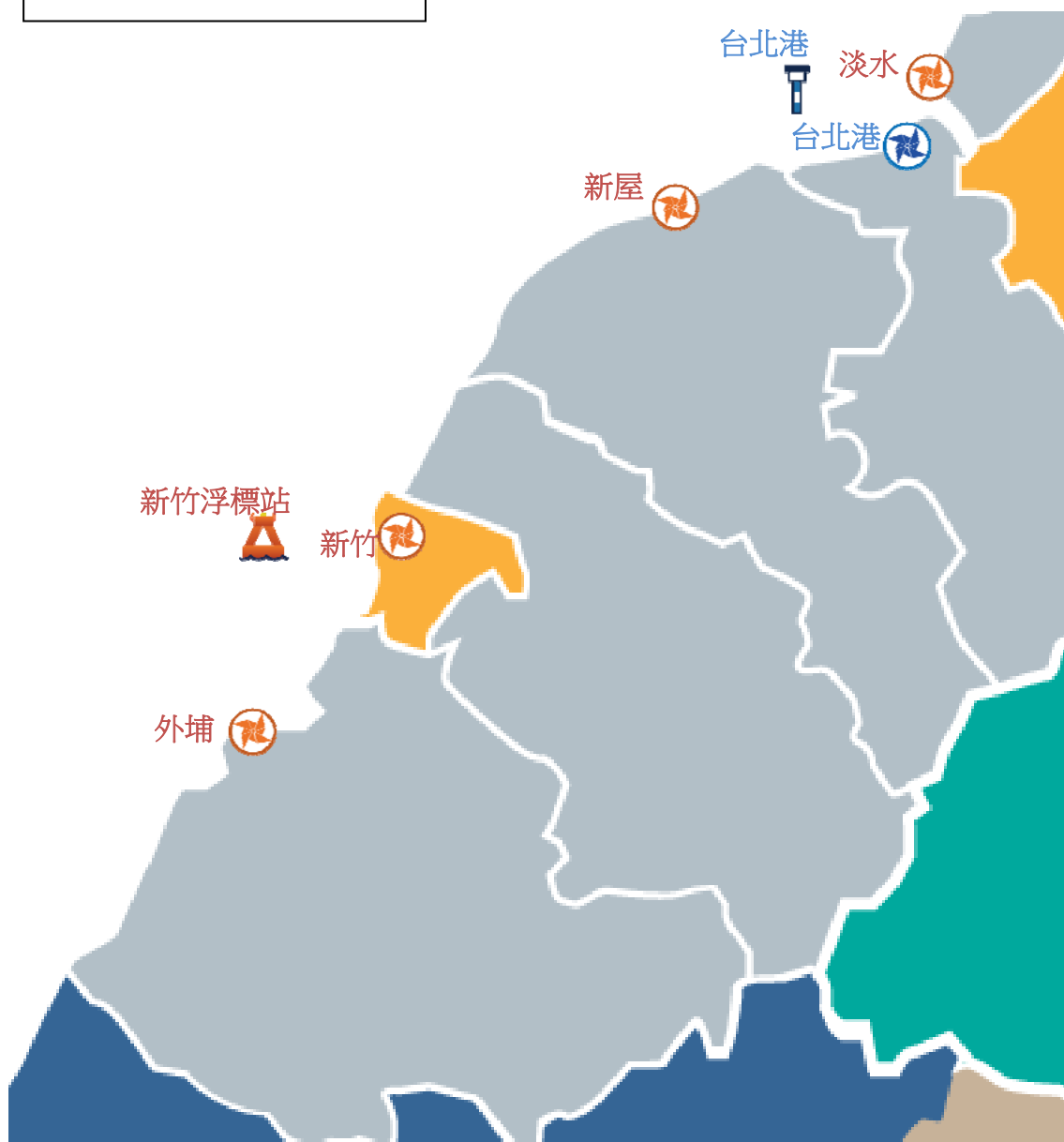


圖 WP1 北苗海域風力觀測站位置示意圖

2017 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 2017 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	2005/01-2017/11(觀測中)	港研中心	台北港新觀測樁
Y	24°45'39"N	120°50'38"E	1997/06-2017/11(觀測中)	中央氣象局	新竹浮標站

北苗海域

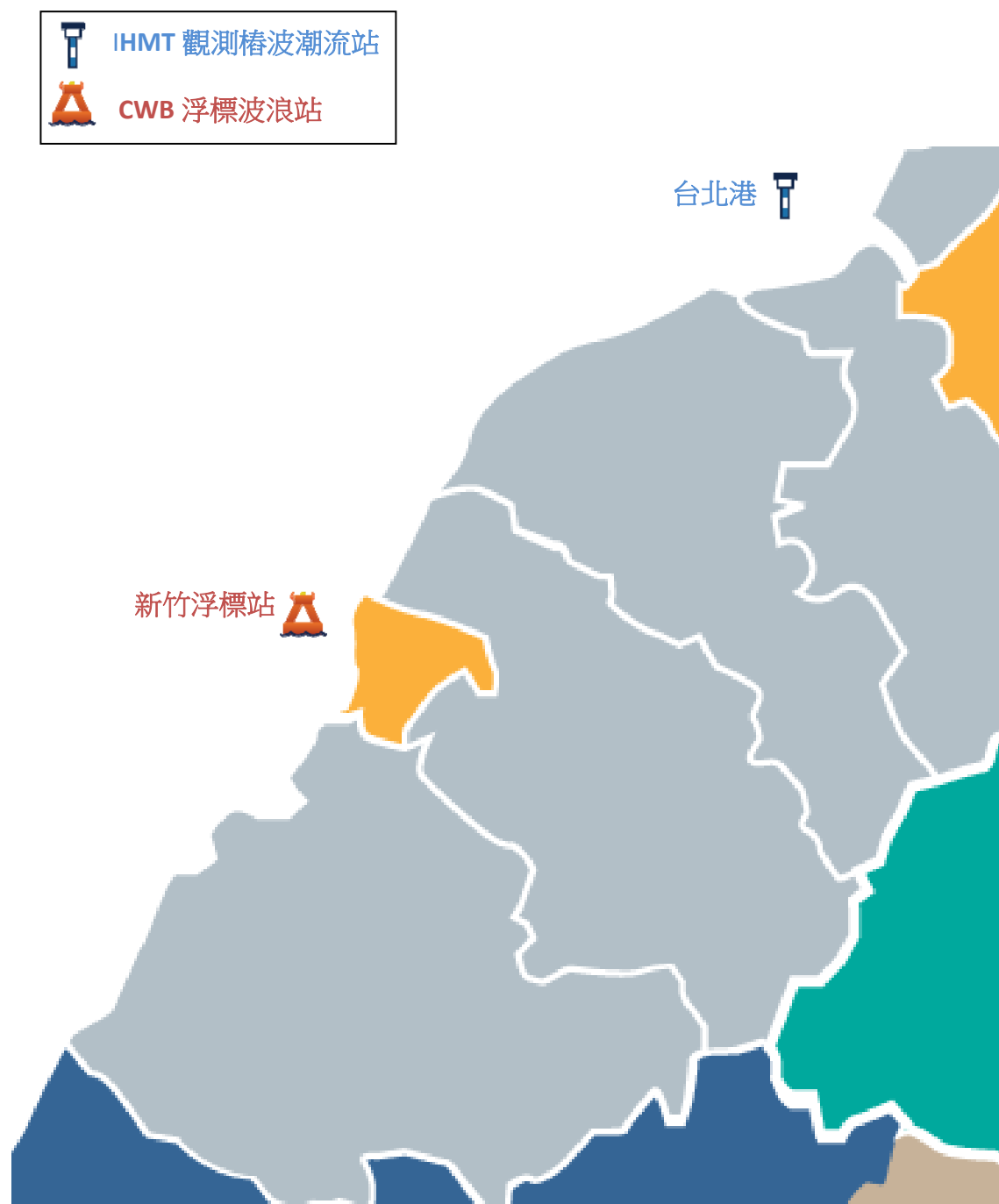


圖 VP1 北苗海域波浪觀測站位置示意圖

2017 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**)。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 2017 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	2009/09-2017/11(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	2005/01-2017/11(觀測中)	港研中心	S4、AWCP 新觀測樁
F	25°10'58"N	121°24'37"E	1994/10-2017/11(觀測中)	水利署	淡水河口潮位站
J	25°09'18"N	121°23'33"E	2013/12 -2017/11(觀測中)	中央氣象局	台北港潮位站
K	25°07'12"N	121°14'07"E	2013/12-2017/11(觀測中)	中央氣象局	竹圍潮位站
P	24°51'01"N	120°54'44"E	2013/12-2017/11(觀測中)	中央氣象局	新竹潮位站
Q	24°39'05"N	120°46'18"E	2013/12-2017/11(觀測中)	中央氣象局	外埔潮位站
M	25°11'3"N	121°24'25"E	2016/09-2017/11(觀測中)	中央氣象局	淡水魚人碼頭
O	25°18'48"N	121°24'36"E	2017/03-2017/11(觀測中)	中央氣象局	淡水魚人碼頭

北苗海域

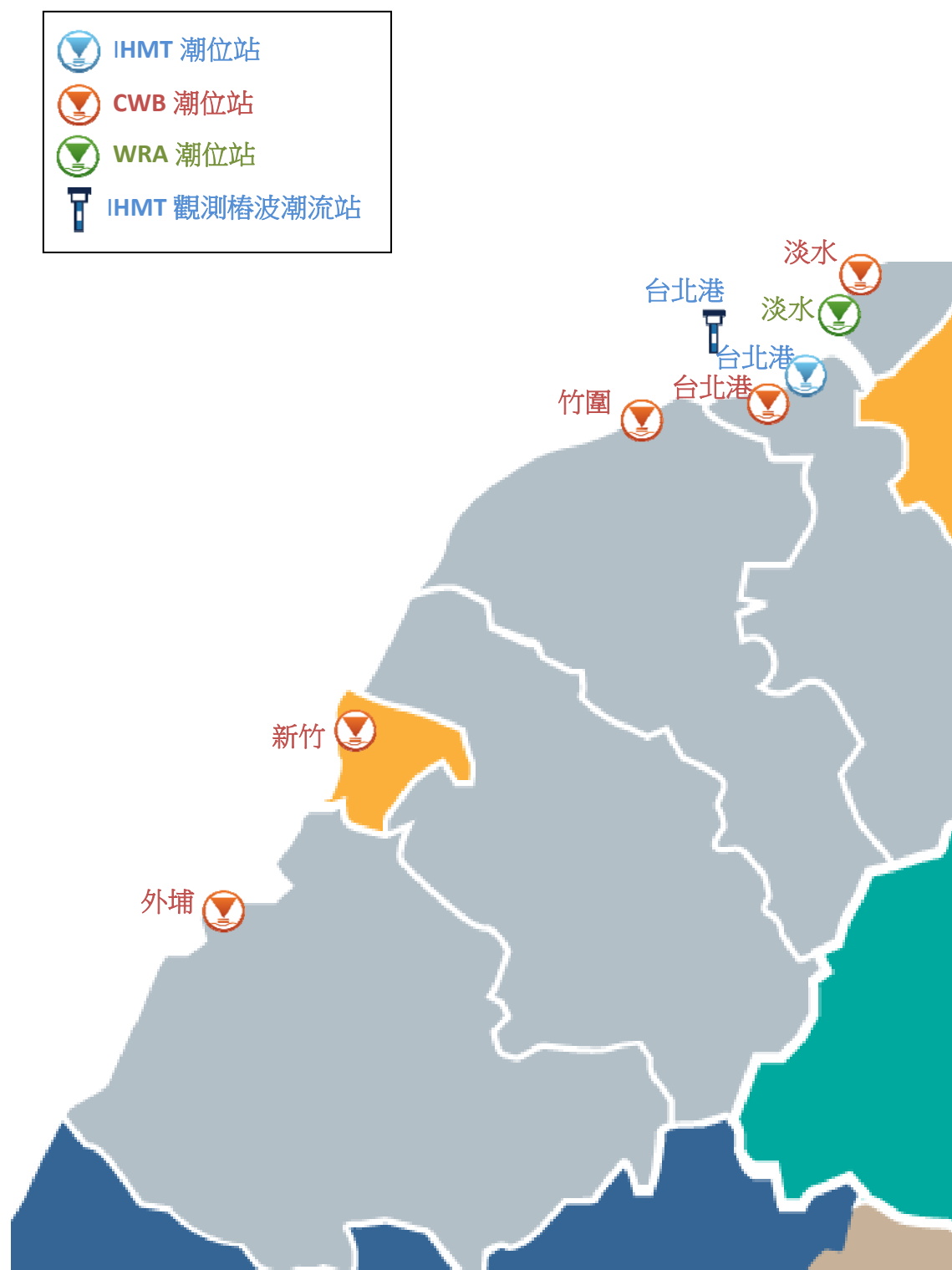


圖 TP1 北苗海域潮汐觀測站位置示意圖

2017 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 2017 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	2005/01-2017/11(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

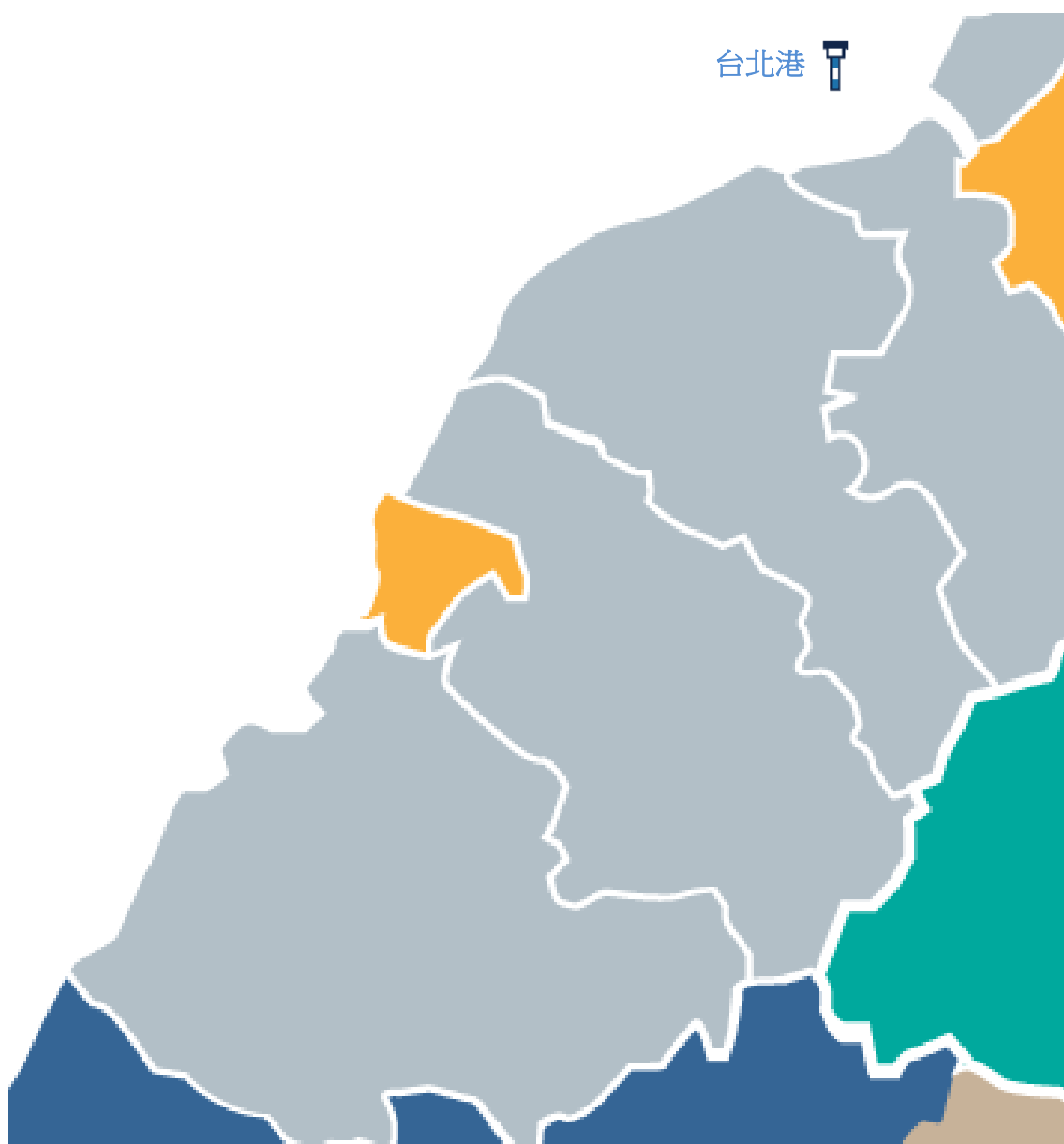


圖 CP1 北苗海域海流觀測站位置示意圖

第一章 2017 年北苗海域觀測風力資料

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

本**風力**年報資料處理之圖表包括：

1. 2017 年**各觀測站**每月**觀測風力**資料**修補前**記錄表。
2. 2017 年**主要測站**每月**觀測風力**資料**修補後**記錄表。
3. 2017 年**主要測站修補前後**每月(季)及整年風速及風向重要統計量統計表。
4. 2017 年**主要測站修補前後**每月風力歷線比較圖。
5. 2017 年**主要測站之觀測風力與次要觀測站(或其他觀測站)**每月風力歷線比較圖。

表 1.1a 2017 年每月北苗海域修補前各測站觀測風力資料紀錄表

1-2

海域 年月/測站	北苗海域 X	北苗海域 Y	北苗海域 W	北苗海域 E	北苗海域 P	北苗海域 Q	北苗海域 H	北苗海域 I	北苗海域	北苗海域	北苗海域	北苗海域
2016/12 月	*	744(100%)	738(99.2%)	744(100%)	732(98.4%)	719(96.6%)	744(100%)	744(100%)	*	*	*	*
2017/ 1 月	*	744(100%)	743(99.9%)	744(100%)	599(80.5%)	603(81.0%)	744(100%)	744(100%)	*	*	*	*
2017/ 2 月	*	672(100%)	672(100%)	672(100%)	658(97.9%)	658(97.9%)	672(100%)	672(100%)	*	*	*	*
2017/ 3 月	*	744(100%)	734(98.7%)	744(100%)	681(91.5%)	684(91.9%)	744(100%)	744(100%)	*	*	*	*
2017/ 4 月	*	720(100%)	629(87.4%)	720(100%)	601(83.5%)	586(81.4%)	720(100%)	720(100%)	*	*	*	*
2017/ 5 月	*	744(100%)	643(86.4%)	744(100%)	698(93.8%)	705(94.8%)	744(100%)	744(100%)	*	*	*	*
2017/ 6 月	*	720(100%)	*	720(100%)	351(48.8%)	351(48.8%)	720(100%)	720(100%)	*	*	*	*
2017/ 7 月	*	743(99.9%)	301(40.5%)	744(100%)	682(91.7%)	681(91.5%)	744(100%)	744(100%)	*	*	*	*
2017/ 8 月	*	744(100%)	738(99.2%)	744(100%)	406(54.6%)	405(54.4%)	744(100%)	744(100%)	*	*	*	*
2017/ 9 月	*	719(99.9%)	711(98.8%)	720(100%)	439(61.0%)	440(61.1%)	720(100%)	720(100%)	*	*	*	*
2017/10 月	*	744(100%)	475(63.8%)	*	574(77.2%)	575(77.3%)	*	*	*	*	*	*
2017/11 月	*	720(100%)	336(46.7%)	*	622(86.4%)	623(86.5%)	*	*	*	*	*	*
2017/冬季	*	2160(100%)	2153(99.7%)	2160(100%)	1989(92.1%)	1980(91.7%)	2160(100%)	2160(100%)	*	*	*	*
2017/春季	*	2208(100%)	2006(90.9%)	2208(100%)	1980(89.7%)	1975(89.4%)	2208(100%)	2208(100%)	*	*	*	*
2017/夏季	*	2207(99.9%)	1039(47.1%)	2208(100%)	1439(65.2%)	1437(65.1%)	2208(100%)	2208(100%)	*	*	*	*
2017/秋季	*	2183(99.9%)	1522(69.7%)	720(33.0%)	1635(74.9%)	1638(75.0%)	720(33.0%)	720(33.0%)	*	*	*	*
2017/整年	*	8758(99.9%)	6720(76.7%)	7296(83.3%)	7043(80.4%)	7030(80.3%)	7296(83.3%)	7296(83.3%)	*	*	*	*
起始年月	*	2016/12	2016/12	2016/12	2016/12	2016/12	2016/12	2016/12	*	*	*	*
結束年月	*	2017/11	2017/11	2017/09	2017/11	2017/11	2017/09	2017/09	*	*	*	*

表 1.1b 2017年每月北苗海域修補後各測站風力資料紀錄表

海域 年月/測站	北苗海域 X	北苗海域 Y	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
2016/12月	744(100%)	744(100%)	*	*	*	*	*	*	*	*	*	*
2017/ 1月	744(100%)	744(100%)	*	*	*	*	*	*	*	*	*	*
2017/ 2月	672(100%)	672(100%)	*	*	*	*	*	*	*	*	*	*
2017/ 3月	744(100%)	744(100%)	*	*	*	*	*	*	*	*	*	*
2017/ 4月	720(100%)	720(100%)	*	*	*	*	*	*	*	*	*	*
2017/ 5月	744(100%)	744(100%)	*	*	*	*	*	*	*	*	*	*
2017/ 6月	720(100%)	720(100%)	*	*	*	*	*	*	*	*	*	*
2017/ 7月	744(100%)	744(100%)	*	*	*	*	*	*	*	*	*	*
2017/ 8月	744(100%)	744(100%)	*	*	*	*	*	*	*	*	*	*
2017/ 9月	720(100%)	720(100%)	*	*	*	*	*	*	*	*	*	*
2017/10月	744(100%)	744(100%)	*	*	*	*	*	*	*	*	*	*
2017/11月	720(100%)	720(100%)	*	*	*	*	*	*	*	*	*	*
2017/冬季	2160(100%)	2160(100%)	*	*	*	*	*	*	*	*	*	*
2017/春季	2208(100%)	2208(100%)	*	*	*	*	*	*	*	*	*	*
2017/夏季	2208(100%)	2208(100%)	*	*	*	*	*	*	*	*	*	*
2017/秋季	2184(100%)	2184(100%)	*	*	*	*	*	*	*	*	*	*
2017/整年	8760(100%)	8760(100%)	*	*	*	*	*	*	*	*	*	*
起始年月	2016/12	2016/12	*	*	*	*	*	*	*	*	*	*
結束年月	2017/11	2017/11	*	*	*	*	*	*	*	*	*	*

表 1.2a 2017 年北苗海域主要測站 1 修補前風速及風向重要統計量統計表

序 號	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	2016/12													
2	2017/01													
3	2017/02													
4	2017/03													
5	2017/04													
6	2017/05													
7	2017/06													
8	2017/07													
9	2017/08													
10	2017/09													
11	2017/10													
12	2017/11													
13	2017/冬													
14	2017/春													
15	2017/夏													
16	2017/秋													
17	2017/年													

表1.2b 2017年北苗海域主要測站1修補後風速及風向重要統計量統計表

序 號	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	2016/12	744(100%)	8.1	7.2/ENE	16.1/ESE	11.0	31.2	55.1	2.7	79.0	13.2	2.7	5.1	NE /48.5%
2	2017/01	744(100%)	7.5	6.7/NE	15.5/NE	13.4	34.1	50.9	1.5	79.0	9.5	4.6	6.9	NE /48.7%
3	2017/02	672(100%)	7.6	6.4/NE	15.4/NE	17.1	33.2	47.6	2.1	74.4	12.1	5.8	7.7	NE /40.8%
4	2017/03	744(100%)	5.6	4.3/NE	15.1/NE	29.4	44.9	25.5	.1	60.5	23.5	7.1	8.9	NE /34.4%
5	2017/04	720(100%)	5.4	2.1/ENE	14.8/W	35.1	38.8	25.6	.6	41.0	27.1	13.6	18.3	NE /15.6%
6	2017/05	744(100%)	4.9	2.5/ENE	14.2/ESE	32.7	51.9	15.3	.1	45.6	28.6	14.7	11.2	NE /23.3%
7	2017/06	720(100%)	4.5	3.1/WSW	15.0/W	41.1	44.9	12.9	1.1	23.8	8.3	52.6	15.3	WSW/31.4%
8	2017/07	744(100%)	3.3	.8/ESE	24.5/NNE	62.4	34.0	2.8	.8	23.0	42.5	19.4	15.2	ESE/14.7%
9	2017/08	744(100%)	5.5	1.7/WSW	15.9/W	34.4	41.1	23.4	1.1	15.3	27.3	42.3	15.1	WSW/22.8%
10	2017/09	720(100%)	4.5	.6/NE	12.0/NNE	38.8	47.8	13.5	.0	31.9	26.7	18.1	23.3	SE /11.9%
11	2017/10	744(100%)	8.6	8.2/NE	18.9/NE	10.9	26.3	59.5	3.2	84.1	10.5	2.3	3.1	NE /51.9%
12	2017/11	720(100%)	7.9	7.2/ENE	16.0/ENE	10.4	37.8	48.3	3.5	81.9	11.7	2.8	3.6	ENE/42.5%
13	2017/冬	2160(100%)	7.7	6.8/NE	16.1/ESE	13.8	32.8	51.3	2.1	77.6	11.6	4.3	6.5	NE /46.2%
14	2017/春	2208(100%)	5.3	3.0/ENE	15.1/NE	32.4	45.2	22.1	.3	49.1	26.4	11.8	12.7	NE /24.5%
15	2017/夏	2208(100%)	4.4	1.4/WSW	24.5/NNE	46.0	39.9	13.0	1.0	20.7	26.2	38.0	15.2	WSW/19.5%
16	2017/秋	2184(100%)	7.0	5.3/NE	18.9/NE	19.9	37.2	40.7	2.2	66.2	16.2	7.6	9.9	NE /31.8%
17	2017/年	8760(100%)	6.1	3.4/NE	24.5/NNE	28.1	38.8	31.7	1.4	53.2	20.2	15.5	11.1	NE /26.9%

表1.3a 2017年北苗海域主要測站2修補前風速及風向重要統計量統計表

序 號	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	2016/12	744(100%)	8.8	8.2/NE	17.5/NE	18.8	20.7	42.9	17.6	82.9	8.7	3.4	5.0	NE /63.8%
2	2017/01	744(100%)	8.3	7.9/NE	17.3/NE	15.9	23.1	56.5	4.6	86.6	5.8	3.9	3.8	NE /61.0%
3	2017/02	672(100%)	8.7	8.1/NE	16.2/NE	18.5	18.5	55.2	7.9	82.0	6.1	4.2	7.7	NE /61.9%
4	2017/03	744(100%)	6.7	5.8/NE	14.1/NE	22.8	36.6	39.9	.7	79.8	7.7	5.5	7.0	NE /45.4%
5	2017/04	720(100%)	5.9	1.4/NE	14.3/NNE	36.5	24.2	39.2	.1	42.8	18.2	28.9	10.1	NE /19.9%
6	2017/05	744(100%)	4.8	2.1/NNE	12.2/NE	39.2	41.9	18.8	.0	53.4	11.2	21.6	13.8	NE /23.9%
7	2017/06	720(100%)	6.2	4.6/SW	15.0/SW	28.6	35.7	34.6	1.1	11.8	10.4	65.4	12.4	SW /36.0%
8	2017/07	743(100%)	4.1	1.2/SW	21.7/N	49.0	42.3	7.5	1.2	12.0	26.2	43.1	18.7	S /12.7%
9	2017/08	744(100%)	6.1	3.0/SW	16.2/NE	32.3	32.4	33.5	1.9	16.3	11.7	62.0	10.1	SW /30.5%
10	2017/09	719(100%)	4.5	1.2/NNE	13.6/NNE	41.2	45.6	13.2	.0	37.1	13.5	34.6	14.7	NE /14.0%
11	2017/10	744(100%)	9.7	9.0/NE	18.3/NE	15.2	13.2	55.5	16.1	83.3	6.6	5.4	4.7	NE /59.3%
12	2017/11	720(100%)	8.9	8.3/NE	17.9/NE	15.7	21.1	51.1	12.1	85.4	4.6	4.7	5.3	NE /64.6%
13	2017/冬	2160(100%)	8.6	8.0/NE	17.5/NE	17.7	20.8	51.4	10.1	83.9	6.9	3.8	5.4	NE /62.3%
14	2017/春	2208(100%)	5.8	3.1/NE	14.3/NNE	32.8	34.3	32.6	.3	58.8	12.3	18.6	10.3	NE /29.8%
15	2017/夏	2207(100%)	5.4	2.9/SW	21.7/N	36.7	36.8	25.1	1.4	13.4	16.2	56.7	13.7	SW /25.1%
16	2017/秋	2183(100%)	7.7	6.2/NE	18.3/NE	23.9	26.5	40.1	9.5	68.8	8.2	14.8	8.2	NE /46.1%
17	2017/年	8758(100%)	6.9	3.6/NE	21.7/N	27.8	29.7	37.2	5.3	56.0	10.9	23.6	9.4	NE /35.4%

表1.3b 2017年北苗海域主要測站2修補後風速及風向重要統計量統計表

序 號	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	2016/12	744(100%)	8.8	8.2/NE	17.5/NE	18.8	20.7	43.1	17.3	82.9	8.7	3.4	5.0	NE /63.8%
2	2017/01	744(100%)	8.3	7.9/NE	17.3/NE	15.9	23.1	56.5	4.6	86.6	5.8	3.9	3.8	NE /61.0%
3	2017/02	672(100%)	8.7	8.1/NE	16.2/NE	18.5	18.5	55.4	7.7	82.0	6.1	4.2	7.7	NE /61.9%
4	2017/03	744(100%)	6.7	5.8/NE	14.1/NE	22.8	36.6	40.2	.4	79.8	7.7	5.5	7.0	NE /45.3%
5	2017/04	720(100%)	5.9	1.4/NE	14.3/NNE	36.5	24.2	39.2	.1	42.8	18.2	28.9	10.1	NE /19.9%
6	2017/05	744(100%)	4.8	2.1/NNE	12.2/NE	39.2	41.9	18.8	.0	53.4	11.2	21.6	13.8	NE /23.9%
7	2017/06	720(100%)	6.2	4.6/SW	15.0/SW	28.6	35.7	34.6	1.1	11.8	10.4	65.4	12.4	SW /36.0%
8	2017/07	744(100%)	4.1	1.2/SW	21.7/N	49.1	42.2	7.5	1.2	12.1	26.2	43.1	18.5	S /12.8%
9	2017/08	744(100%)	6.1	3.0/SW	16.2/NE	32.4	32.3	33.5	1.9	16.3	11.7	62.0	10.1	SW /30.5%
10	2017/09	720(100%)	4.5	1.2/NNE	13.6/NNE	41.3	45.6	13.2	.0	37.2	13.5	34.6	14.7	NE /14.0%
11	2017/10	744(100%)	9.7	9.0/NE	18.3/NE	15.2	13.2	55.5	16.1	83.3	6.6	5.4	4.7	NE /59.3%
12	2017/11	720(100%)	8.9	8.3/NE	17.9/NE	15.7	21.1	51.1	12.1	85.4	4.6	4.7	5.3	NE /64.6%
13	2017/冬	2160(100%)	8.6	8.0/NE	17.5/NE	17.7	20.8	51.5	10.0	83.9	6.9	3.8	5.4	NE /62.3%
14	2017/春	2208(100%)	5.8	3.1/NE	14.3/NNE	32.8	34.3	32.7	.2	58.8	12.3	18.6	10.3	NE /29.8%
15	2017/夏	2208(100%)	5.4	2.9/SW	21.7/N	36.8	36.7	25.1	1.4	13.4	16.2	56.7	13.7	SW /25.1%
16	2017/秋	2184(100%)	7.7	6.2/NE	18.3/NE	23.9	26.5	40.1	9.5	68.8	8.2	14.8	8.2	NE /46.1%
17	2017/年	8760(100%)	6.9	3.6/NE	21.7/N	27.9	29.6	37.3	5.2	56.1	10.9	23.6	9.4	NE /35.4%

Wind Speed in Pei-Miao Seas of TPX0 at 2017

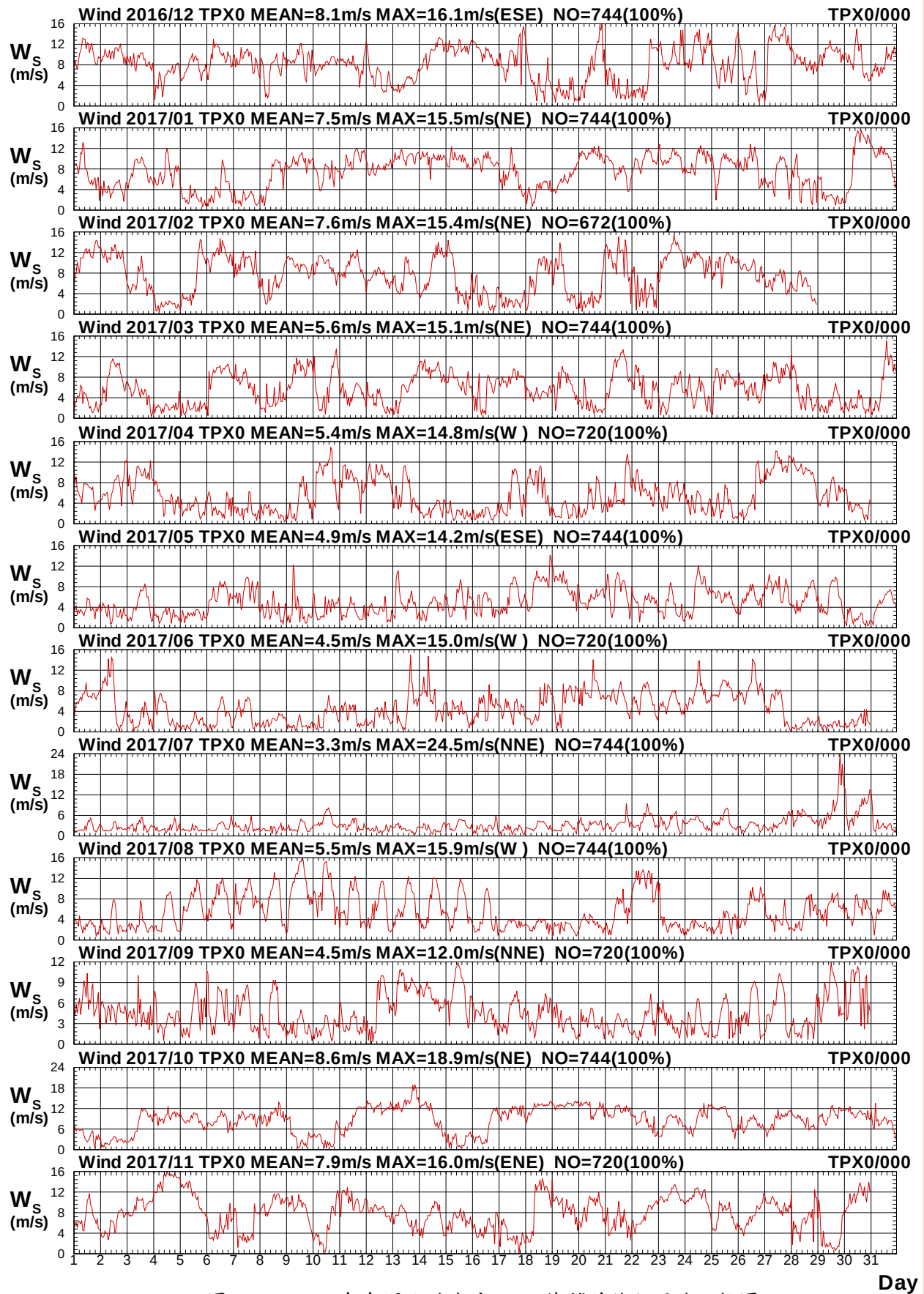


圖1.1a 2017年每月北苗海域 X 站修補前後之風速比較圖

W16CTPX0.1HA W16CTPX0.1H0 W171TPX0.1HA W171TPX0.1H0 W172TPX0.1HA W172TPX0.1H0
W173TPX0.1HA W173TPX0.1H0 W174TPX0.1HA W174TPX0.1H0 W175TPX0.1HA W175TPX0.1H0

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Wind Direction in Pei-Miao Seas of TPX0 at 2017

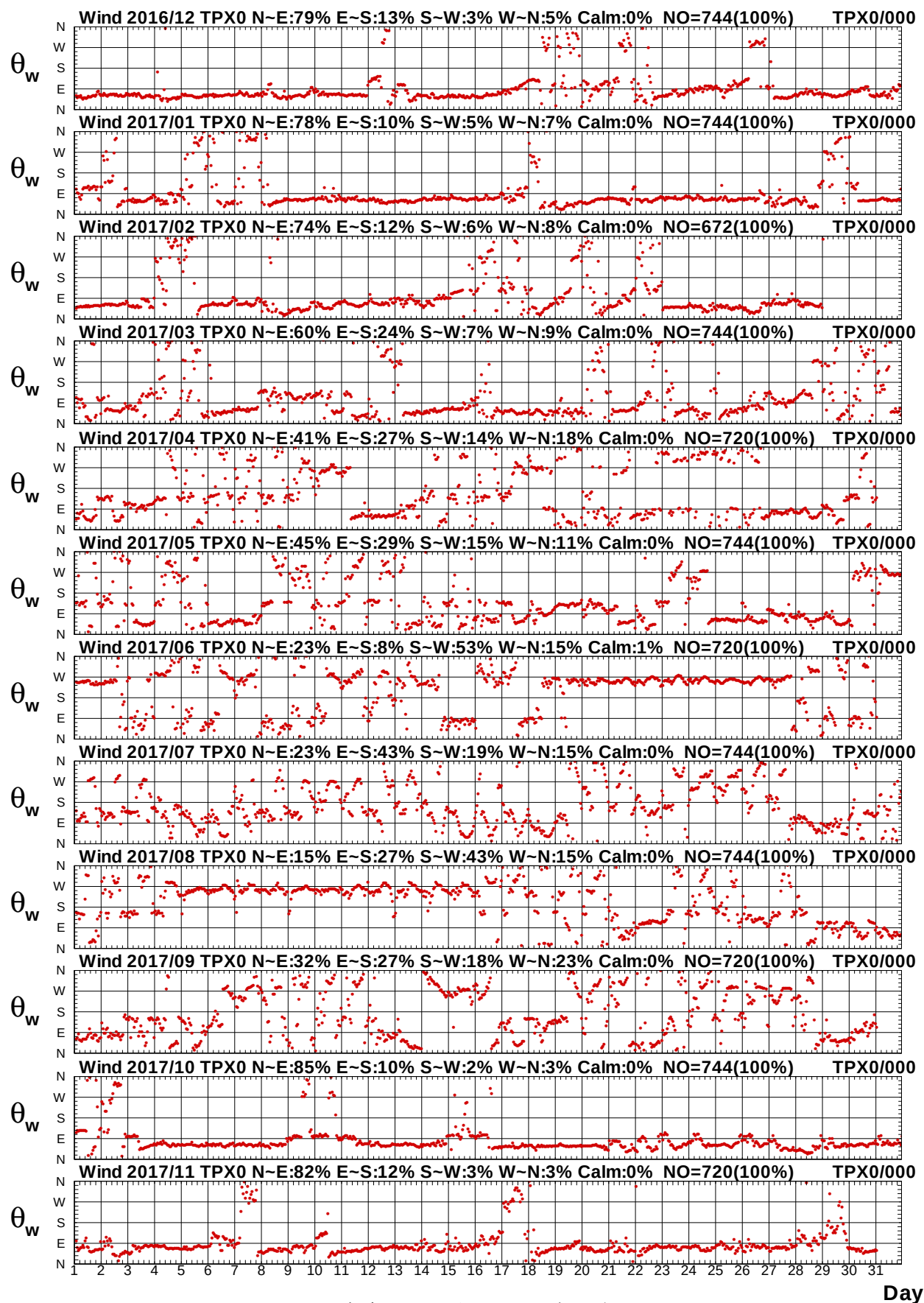


圖1.1b 2017年每月北苗海域 X 站修補前後之風向比較圖

W16CTPX0.1HA W16CTPX0.1H0 W171TPX0.1HA W171TPX0.1H0 W172TPX0.1HA W172TPX0.1H0
W173TPX0.1HA W173TPX0.1H0 W174TPX0.1HA W174TPX0.1H0 W175TPX0.1HA W175TPX0.1H0

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Wind Speed in Pei-Miao Seas of TPX0 at 2017

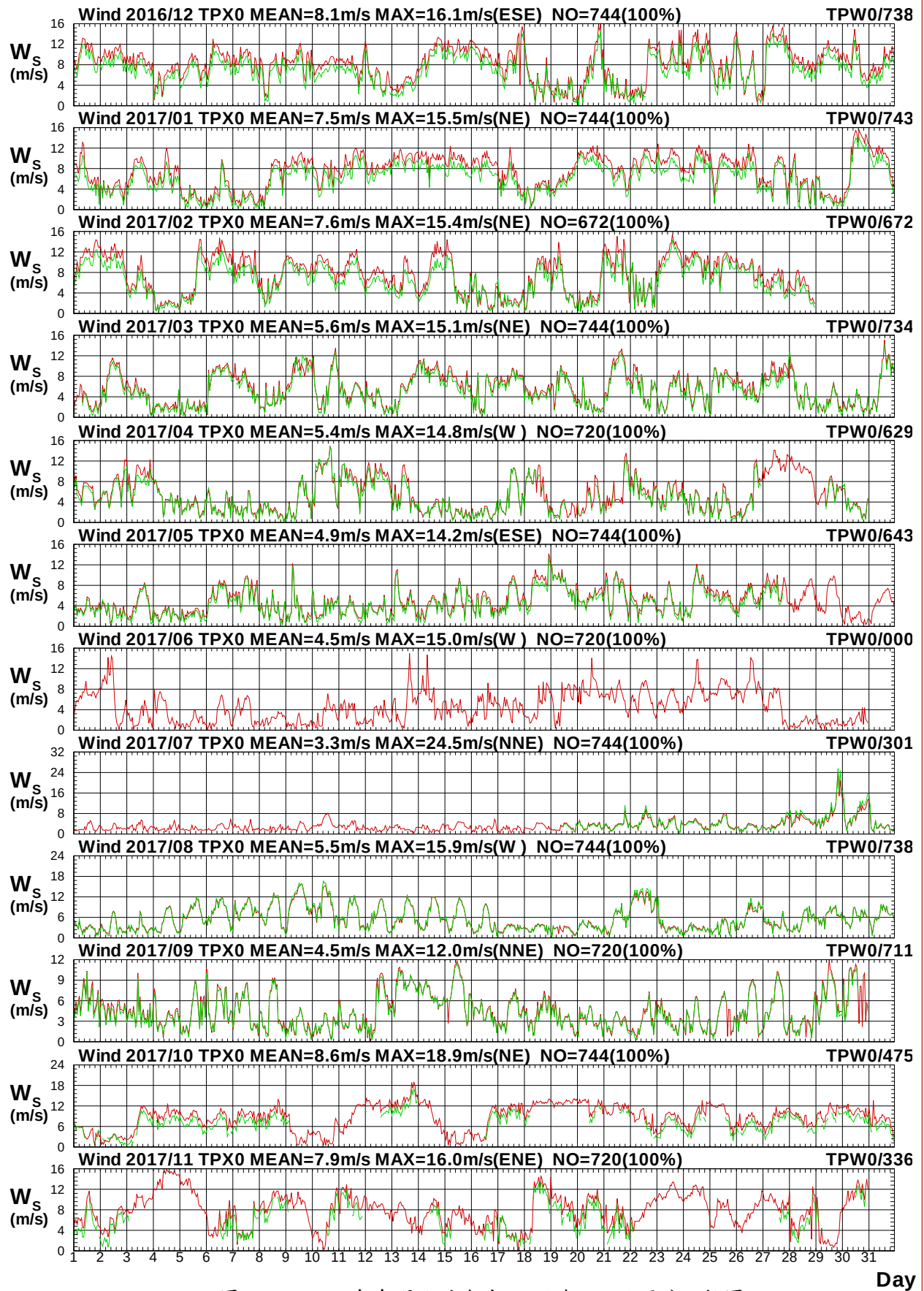


圖1.2a 2017年每月北苗海域 X 站與 W 站風速比較圖

W16CTPX0.1HA W16CTPW0.1H0 W171TPX0.1HA W171TPW0.1H0 W172TPX0.1HA W172TPW0.1H0
W173TPX0.1HA W173TPW0.1H0 W174TPX0.1HA W174TPW0.1H0 W175TPX0.1HA W175TPW0.1H0

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Wind Direction in Pei-Miao Seas of TPX0 at 2017

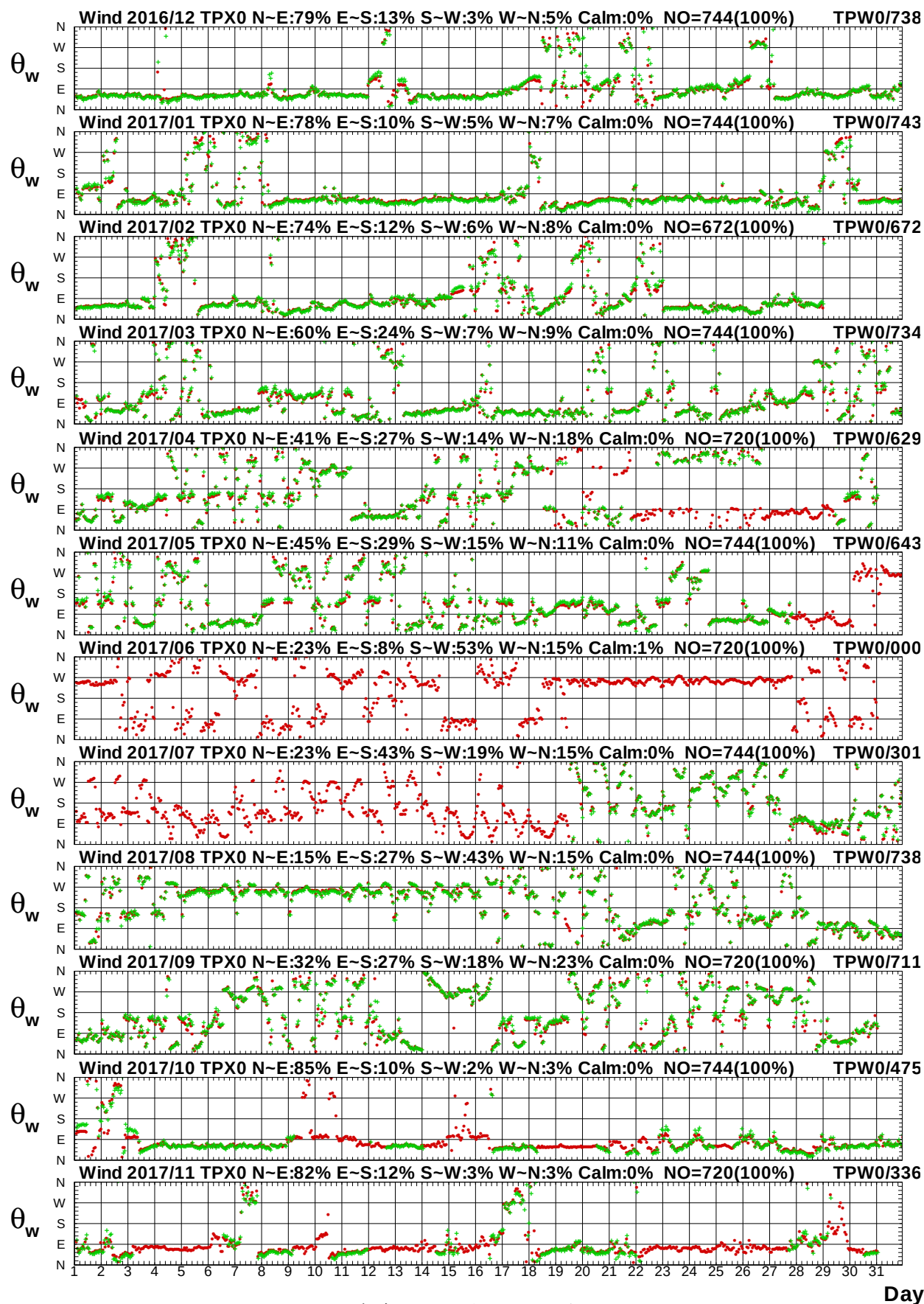


圖1.2b 2017年每月北苗海域 X 站與 W 站風向比較圖

W16CTPX0.1HA W16CTPW0.1H0 W171TPX0.1HA W171TPW0.1H0 W172TPX0.1HA W172TPW0.1H0
W173TPX0.1HA W173TPW0.1H0 W174TPX0.1HA W174TPW0.1H0 W175TPX0.1HA W175TPW0.1H0

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Wind Speed in Pei-Miao Seas of TPX0 at 2017

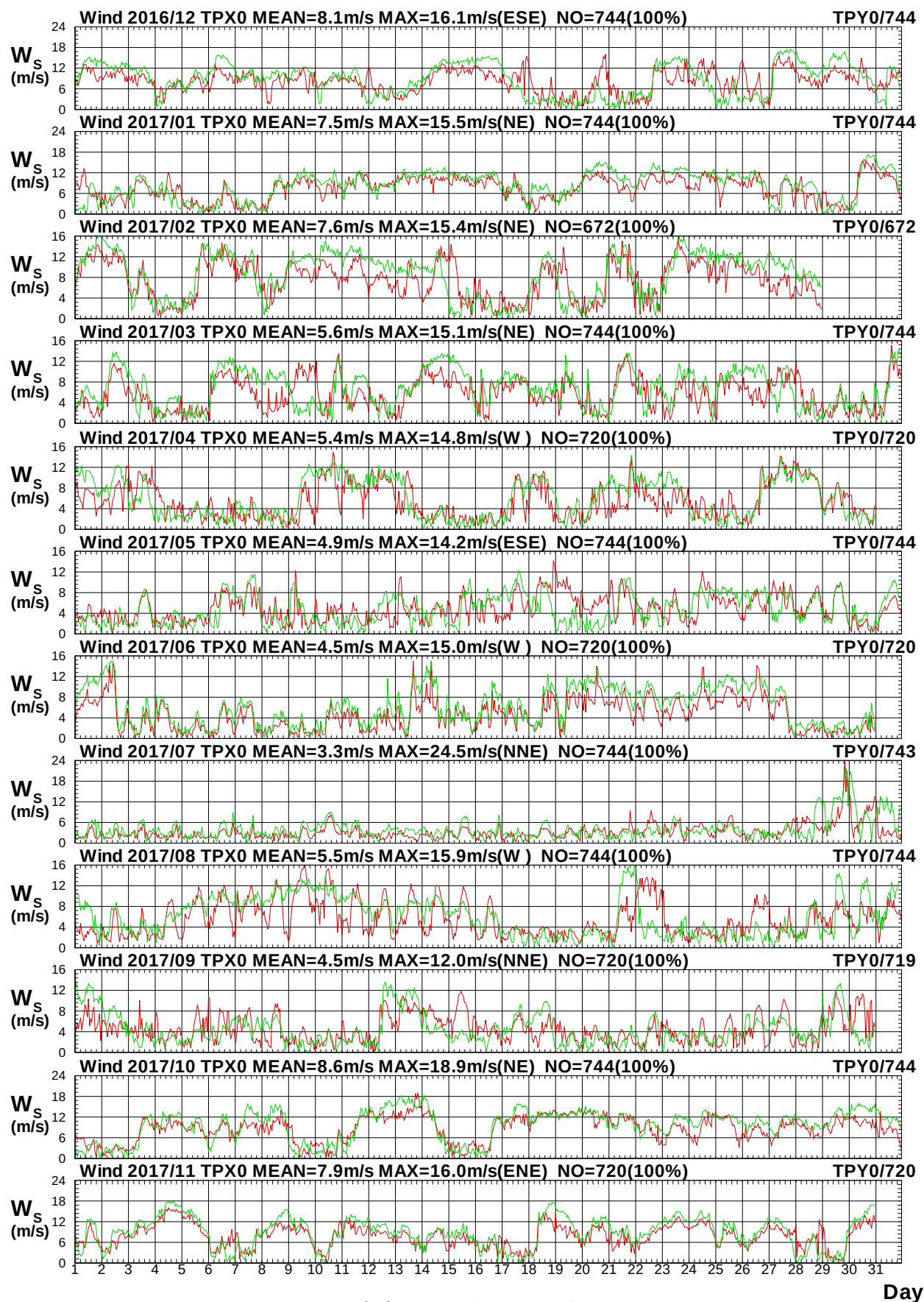


圖1.3a 2017年每月北苗海域 X 站與 Y 站風速比較圖

W16CTPX0.1HA W16CTPY0.1H0 W171TPX0.1HA W171TPY0.1H0 W172TPX0.1HA W172TPY0.1H0
W173TPX0.1HA W173TPY0.1H0 W174TPX0.1HA W174TPY0.1H0 W175TPX0.1HA W175TPY0.1H0

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Wind Direction in Pei-Miao Seas of TPX0 at 2017

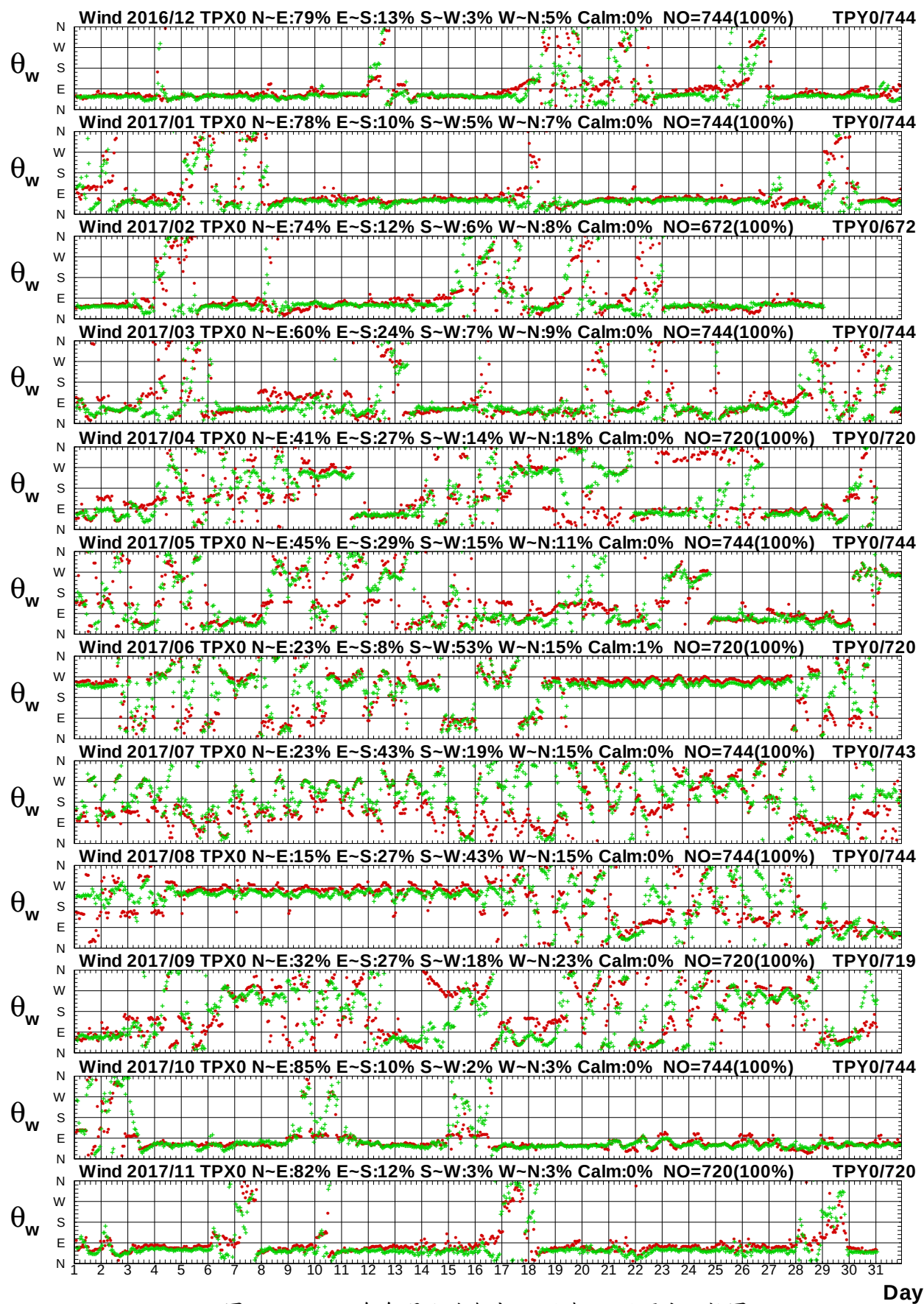


圖1.3b 2017年每月北苗海域 X 站與 Y 站風向比較圖

W16CTPX0.1HA W16CTPY0.1H0 W171TPX0.1HA W171TPY0.1H0 W172TPX0.1HA W172TPY0.1H0
W173TPX0.1HA W173TPY0.1H0 W174TPX0.1HA W174TPY0.1H0 W175TPX0.1HA W175TPY0.1H0

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Wind Speed in Pei-Miao Seas of TPX0 at 2017

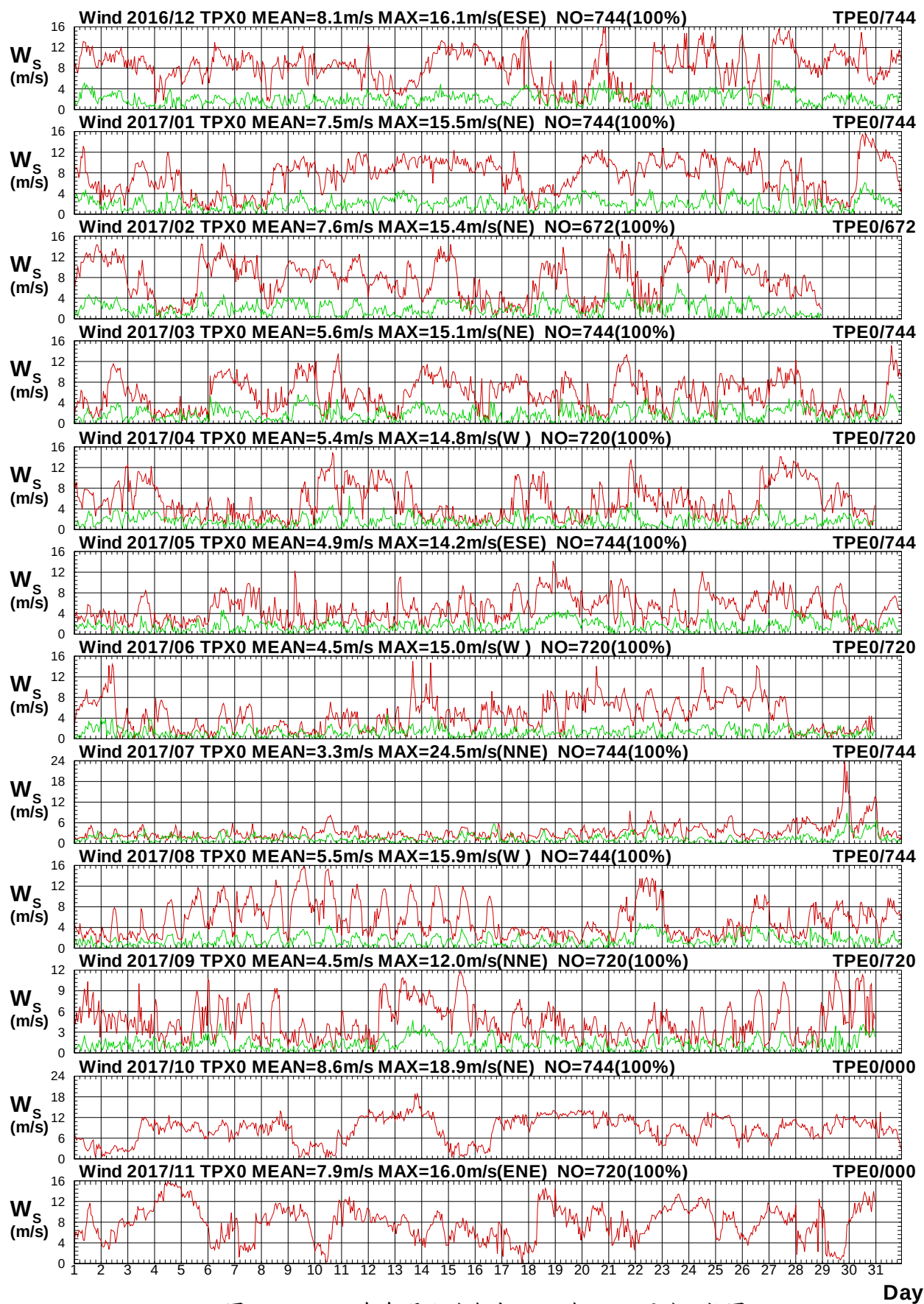


圖1.4a 2017年每月北苗海域 X 站與 E 站風速比較圖

W16CTPX0.1HA W16CTPE0.1H0 W171TPX0.1HA W171TPE0.1H0 W172TPX0.1HA W172TPE0.1H0
W173TPX0.1HA W173TPE0.1H0 W174TPX0.1HA W174TPE0.1H0 W175TPX0.1HA W175TPE0.1H0

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Wind Direction in Pei-Miao Seas of TPX0 at 2017

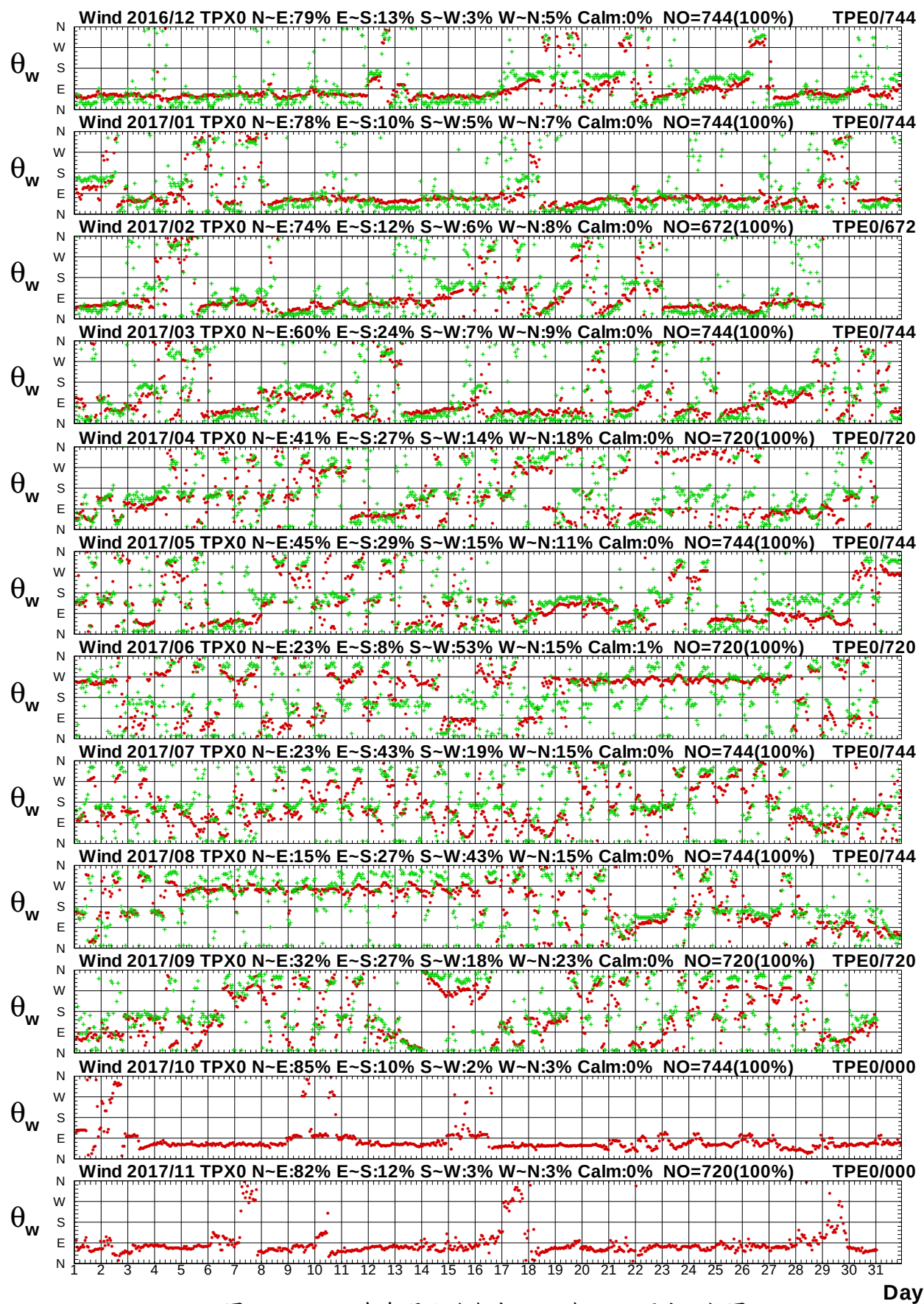


圖1.4b 2017年每月北苗海域 X 站與 E 站風向比較圖

W16CTPX0.1HA W16CTPE0.1H0 W171TPX0.1HA W171TPE0.1H0 W172TPX0.1HA W172TPE0.1H0
W173TPX0.1HA W173TPE0.1H0 W174TPX0.1HA W174TPE0.1H0 W175TPX0.1HA W175TPE0.1H0

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Wind Speed in Pei-Miao Seas of TPX0 at 2017

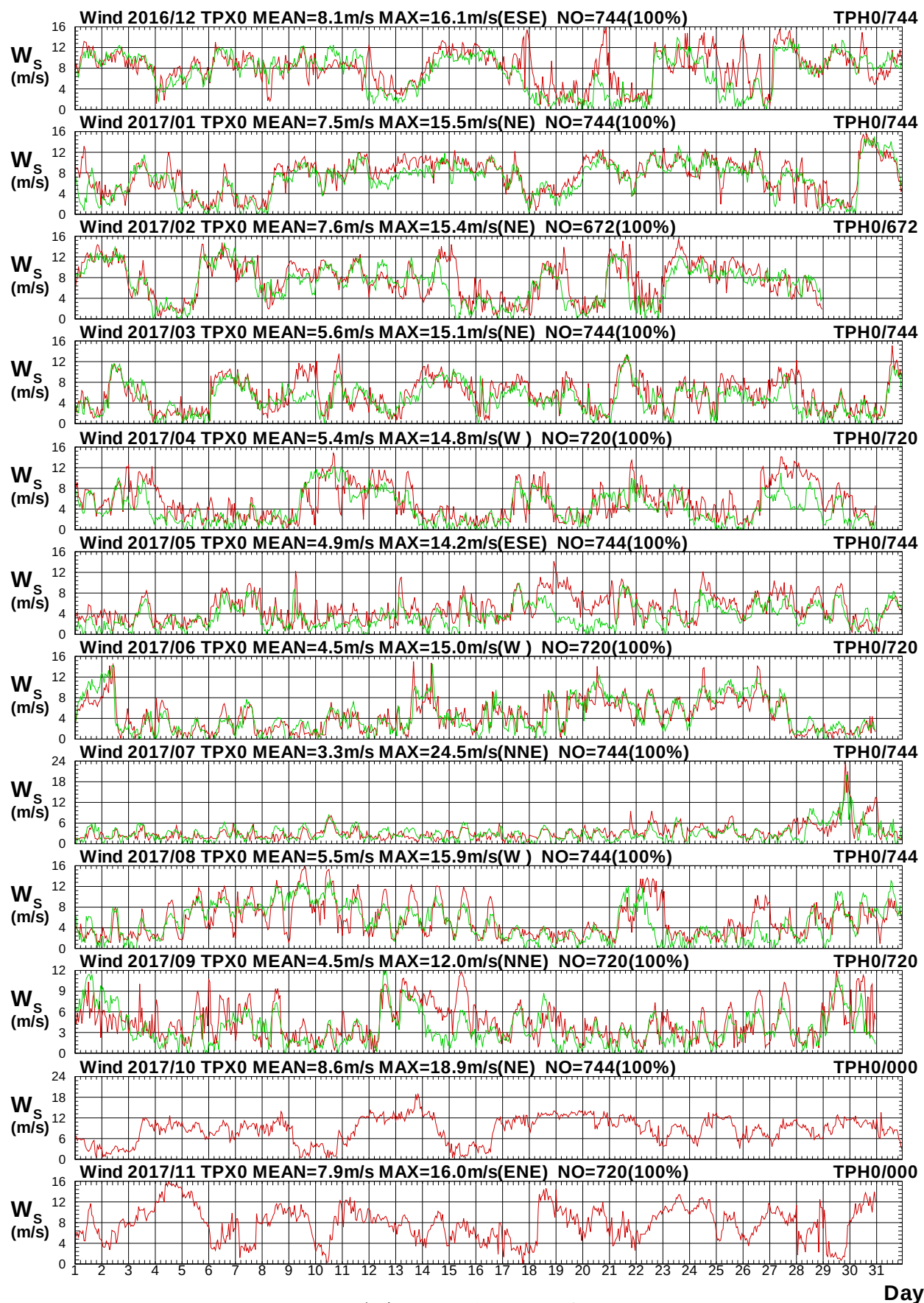


圖1.5a 2017年每月北苗海域 X 站與 H 站風速比較圖

W16CTPX0.1HA W16CTPH0.1H0 W171TPX0.1HA W171TPH0.1H0 W172TPX0.1HA W172TPH0.1H0
W173TPX0.1HA W173TPH0.1H0 W174TPX0.1HA W174TPH0.1H0 W175TPX0.1HA W175TPH0.1H0

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Wind Direction in Pei-Miao Seas of TPX0 at 2017

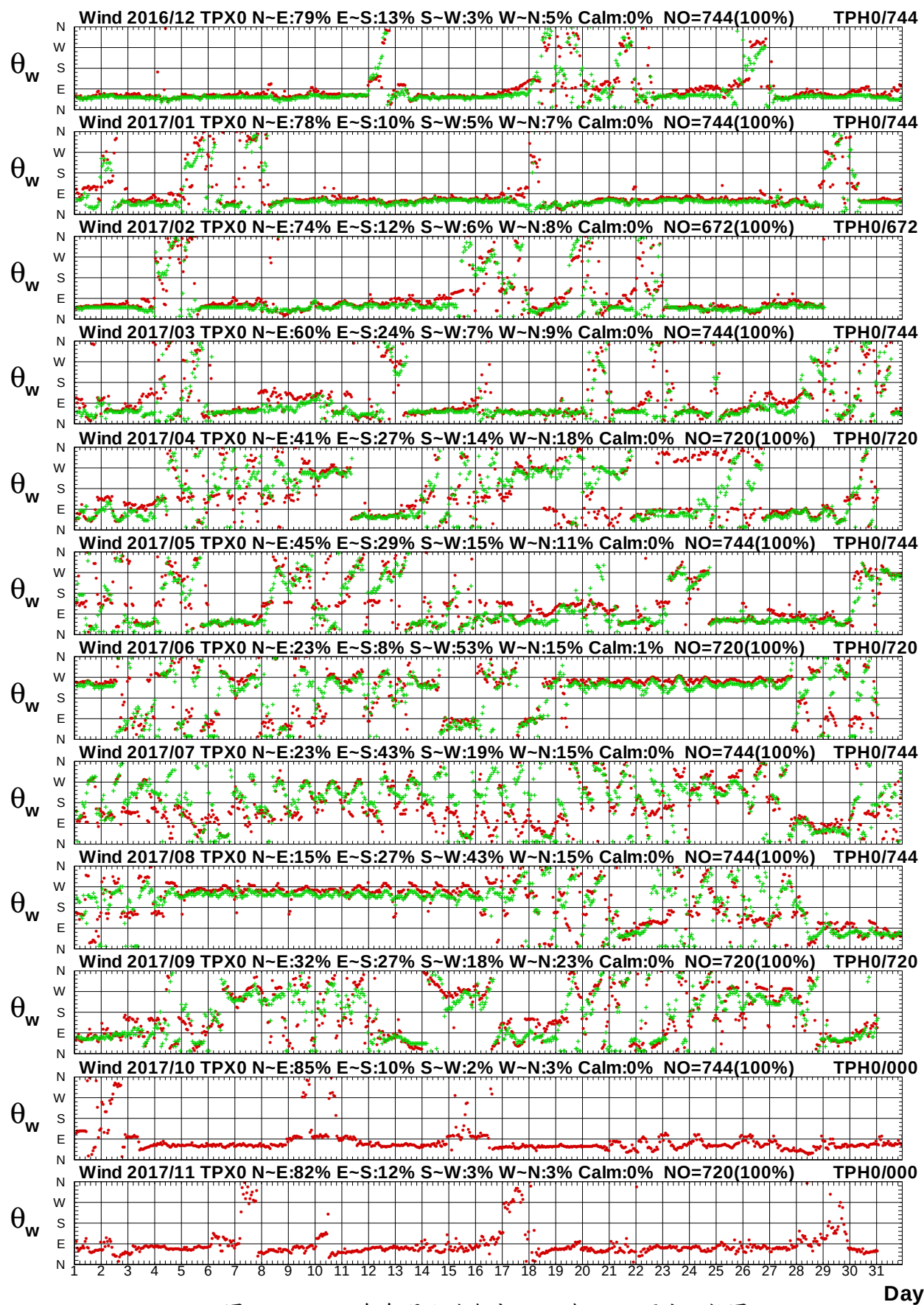


圖1.5b 2017年每月北苗海域 X 站與 H 站風向比較圖

W16CTPX0.1HA W16CTPH0.1H0 W171TPX0.1HA W171TPH0.1H0 W172TPX0.1HA W172TPH0.1H0
W173TPX0.1HA W173TPH0.1H0 W174TPX0.1HA W174TPH0.1H0 W175TPX0.1HA W175TPH0.1H0

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Wind Speed in Pei-Miao Seas of TPX0 at 2017

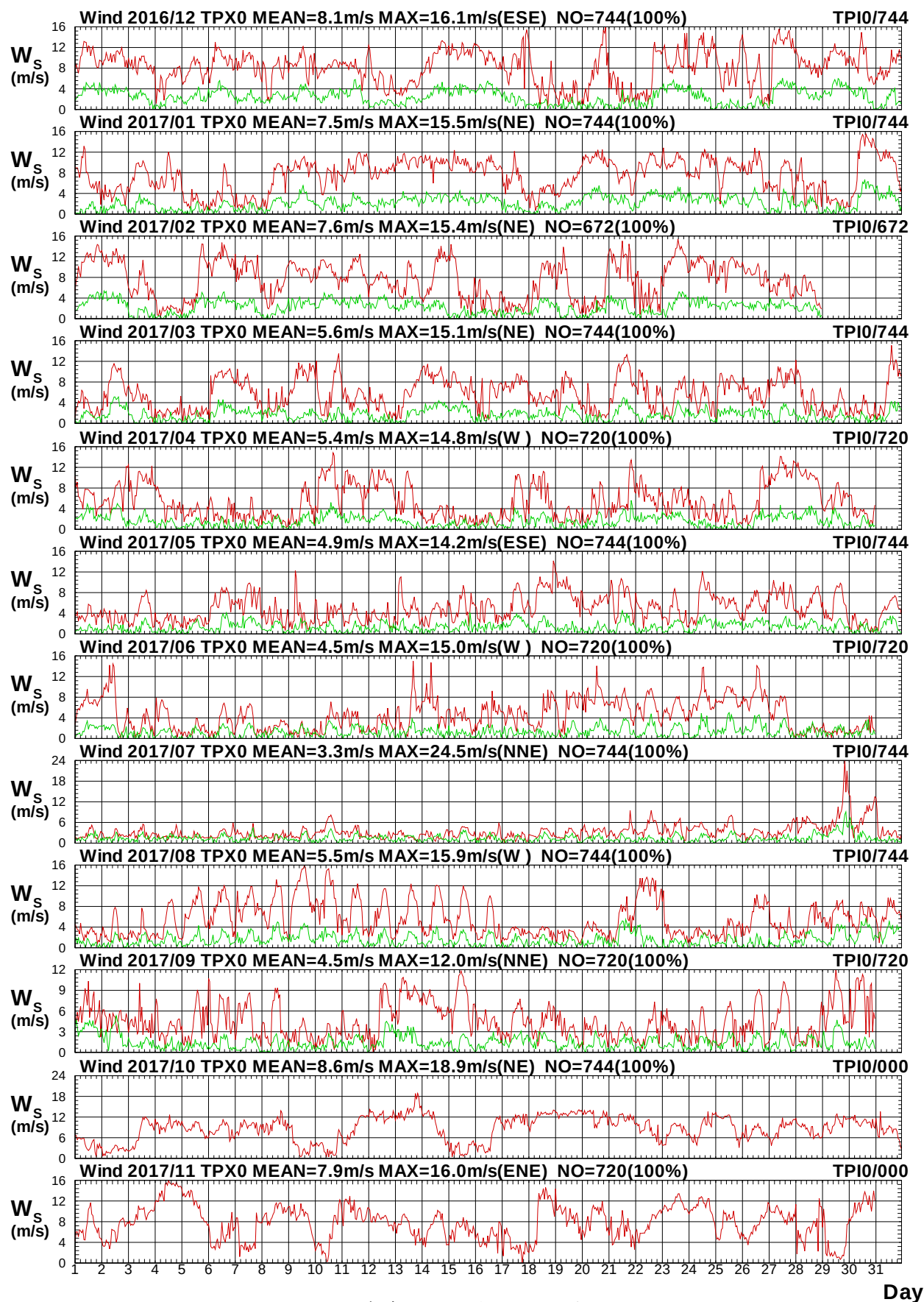


圖1.6a 2017年每月北苗海域 X 站與 I 站風速比較圖

W16CTPX0.1HA W16CTPI0.1H0 W171TPX0.1HA W171TPI0.1H0 W172TPX0.1HA W172TPI0.1H0
W173TPX0.1HA W173TPI0.1H0 W174TPX0.1HA W174TPI0.1H0 W175TPX0.1HA W175TPI0.1H0

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Wind Direction in Pei-Miao Seas of TPX0 at 2017

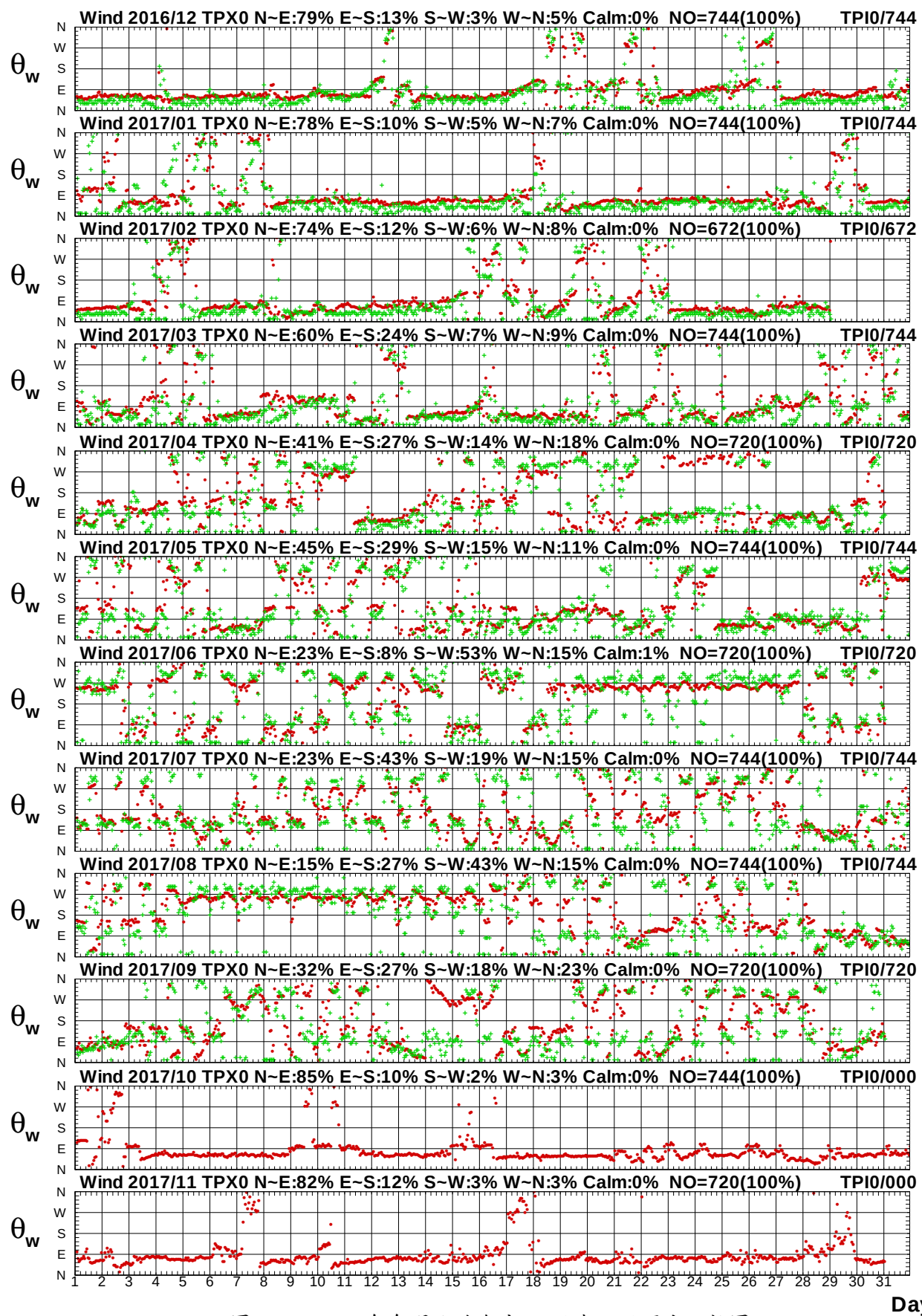


圖1.6b 2017年每月北苗海域 X 站與 I 站風向比較圖

W16CTPX0.1HA W16CTPI0.1H0 W171TPX0.1HA W171TPI0.1H0 W172TPX0.1HA W172TPI0.1H0
W173TPX0.1HA W173TPI0.1H0 W174TPX0.1HA W174TPI0.1H0 W175TPX0.1HA W175TPI0.1H0

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Wind Speed in Pei-Miao Seas of TPX0 at 2017

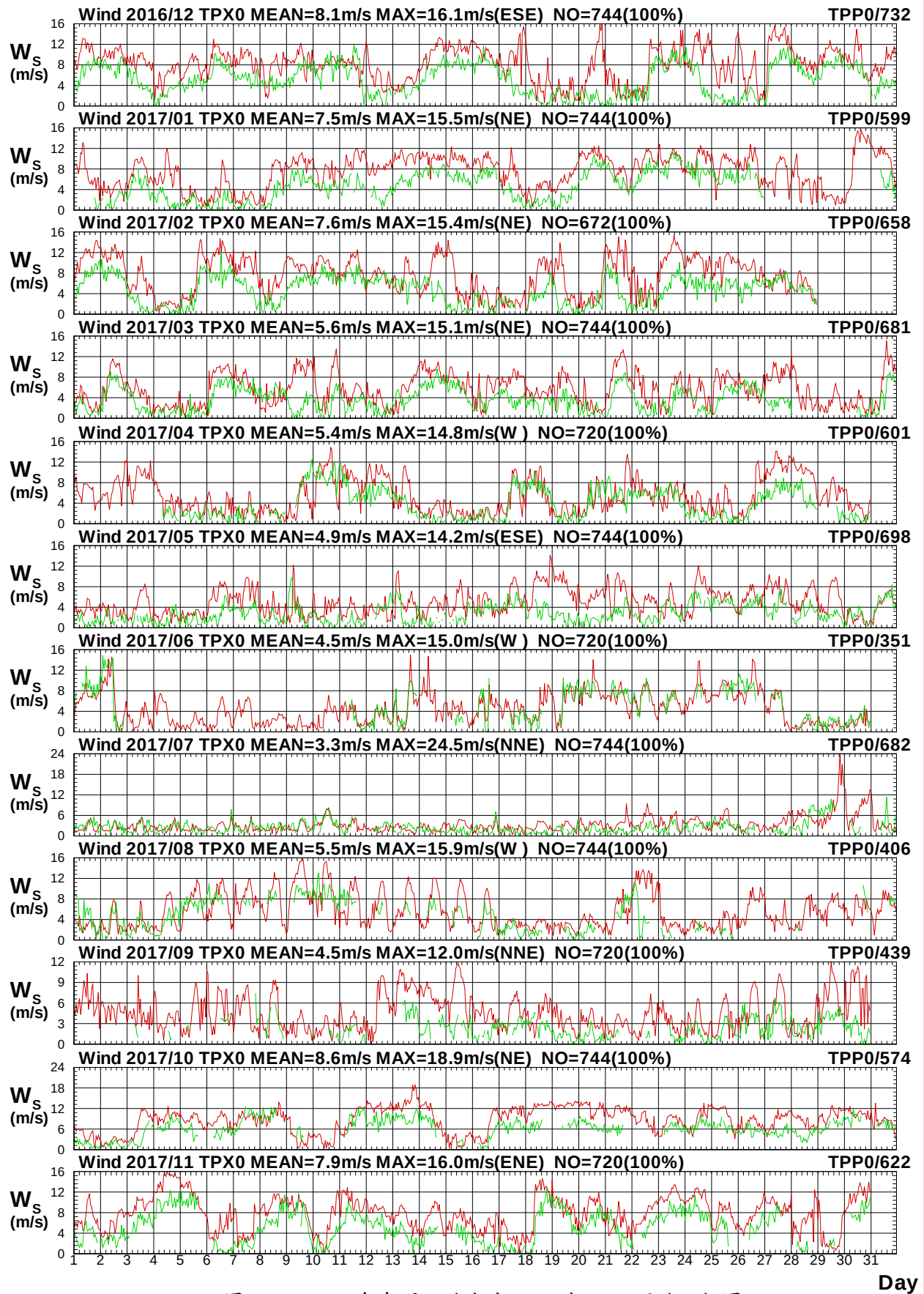


圖1.7a 2017年每月北苗海域 X 站與 P 站風速比較圖

W16CTPX0.1HA W16CTPP0.1H0 W171TPX0.1HA W171TPP0.1H0 W172TPX0.1HA W172TPP0.1H0
W173TPX0.1HA W173TPP0.1H0 W174TPX0.1HA W174TPP0.1H0 W175TPX0.1HA W175TPP0.1H0

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Wind Direction in Pei-Miao Seas of TPX0 at 2017

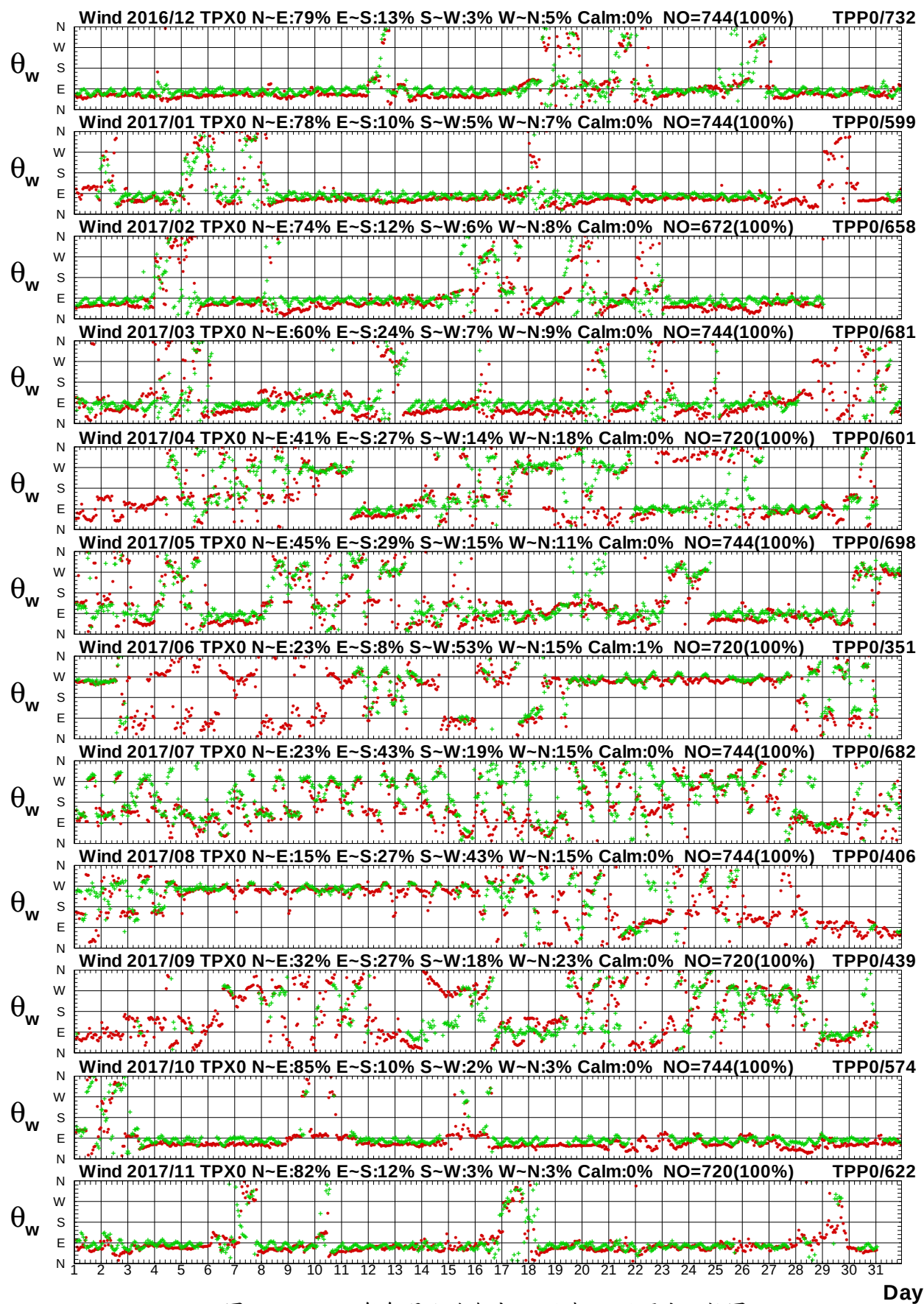


圖1.7b 2017年每月北苗海域 X 站與 P 站風向比較圖

W16CTPX0.1HA W16CTPP0.1H0 W171TPX0.1HA W171TPP0.1H0 W172TPX0.1HA W172TPP0.1H0
W173TPX0.1HA W173TPP0.1H0 W174TPX0.1HA W174TPP0.1H0 W175TPX0.1HA W175TPP0.1H0

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Wind Speed in Pei-Miao Seas of TPX0 at 2017

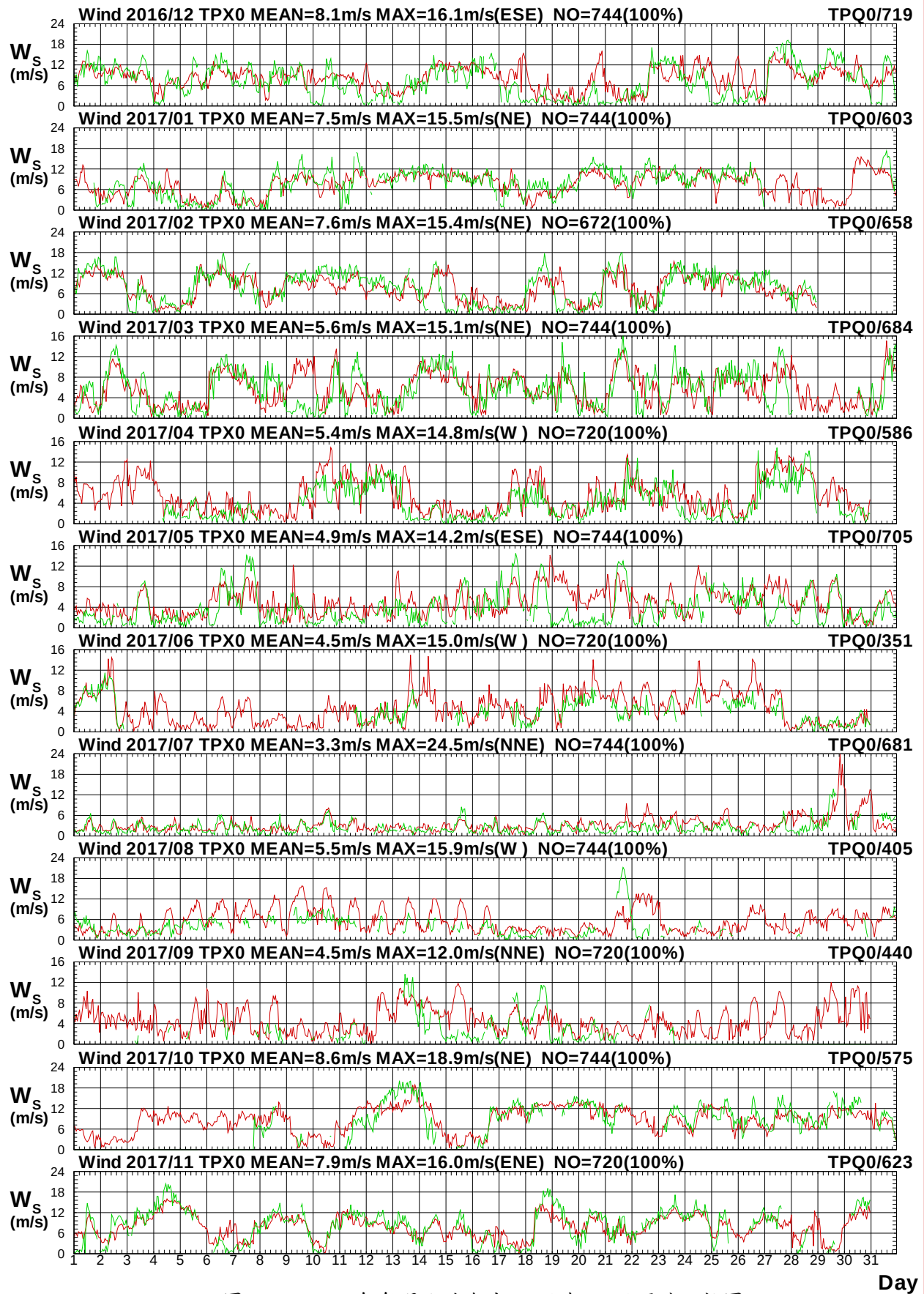


圖1.8a 2017年每月北苗海域 X 站與 Q 站風速比較圖

W16CTPX0.1HA W16CTPQ0.1H0 W171TPX0.1HA W171TPQ0.1H0 W172TPX0.1HA W172TPQ0.1H0
W173TPX0.1HA W173TPQ0.1H0 W174TPX0.1HA W174TPQ0.1H0 W175TPX0.1HA W175TPQ0.1H0

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Wind Direction in Pei-Miao Seas of TPX0 at 2017

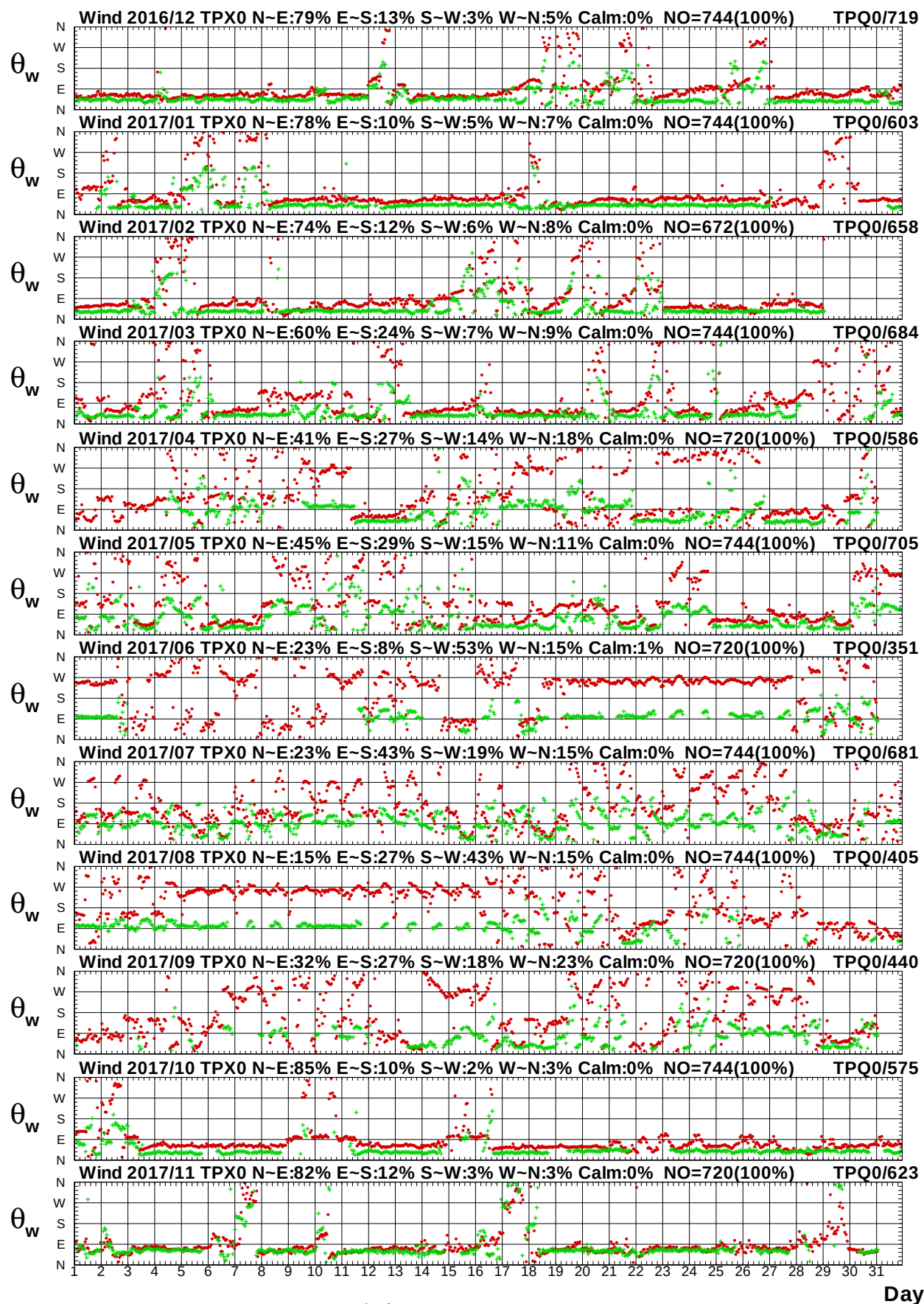


圖1.8b 2017年每月北苗海域 X 站與 Q 站風向比較圖

W16CTPX0.1HA W16CTPQ0.1H0 W171TPX0.1HA W171TPQ0.1H0 W172TPX0.1HA W172TPQ0.1H0
W173TPX0.1HA W173TPQ0.1H0 W174TPX0.1HA W174TPQ0.1H0 W175TPX0.1HA W175TPQ0.1H0

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Wind Speed in Pei-Miao Seas of TPX0 at 2017

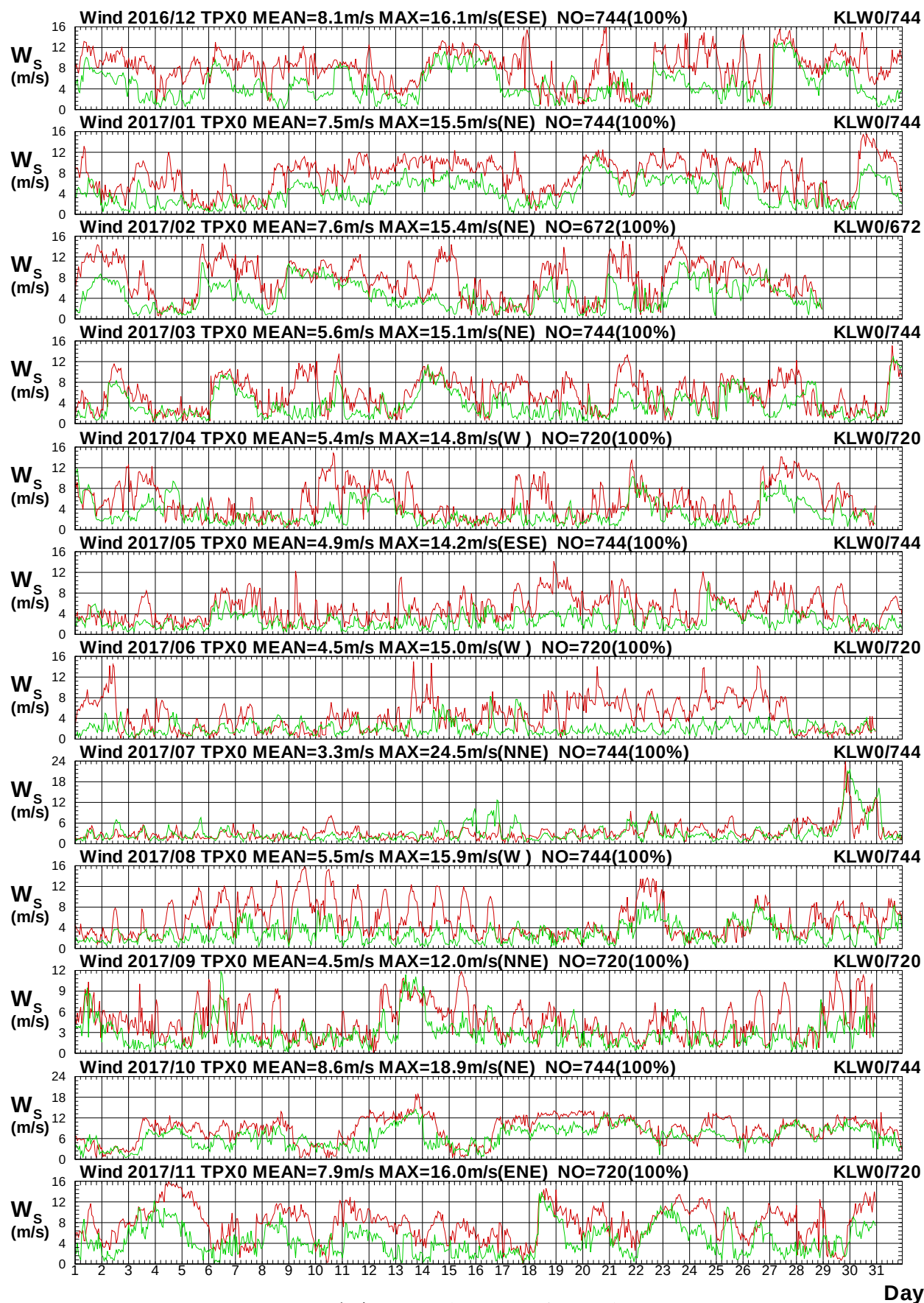


圖1.9a 2017年每月北苗海域 X 站與北端海域 W 站風速圖

W16CTPX0.1HA W16CKLW0.1H0 W171TPX0.1HA W171KLW0.1H0 W172TPX0.1HA W172KLW0.1H0
W173TPX0.1HA W173KLW0.1H0 W174TPX0.1HA W174KLW0.1H0 W175TPX0.1HA W175KLW0.1H0

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Wind Direction in Pei-Miao Seas of TPX0 at 2017

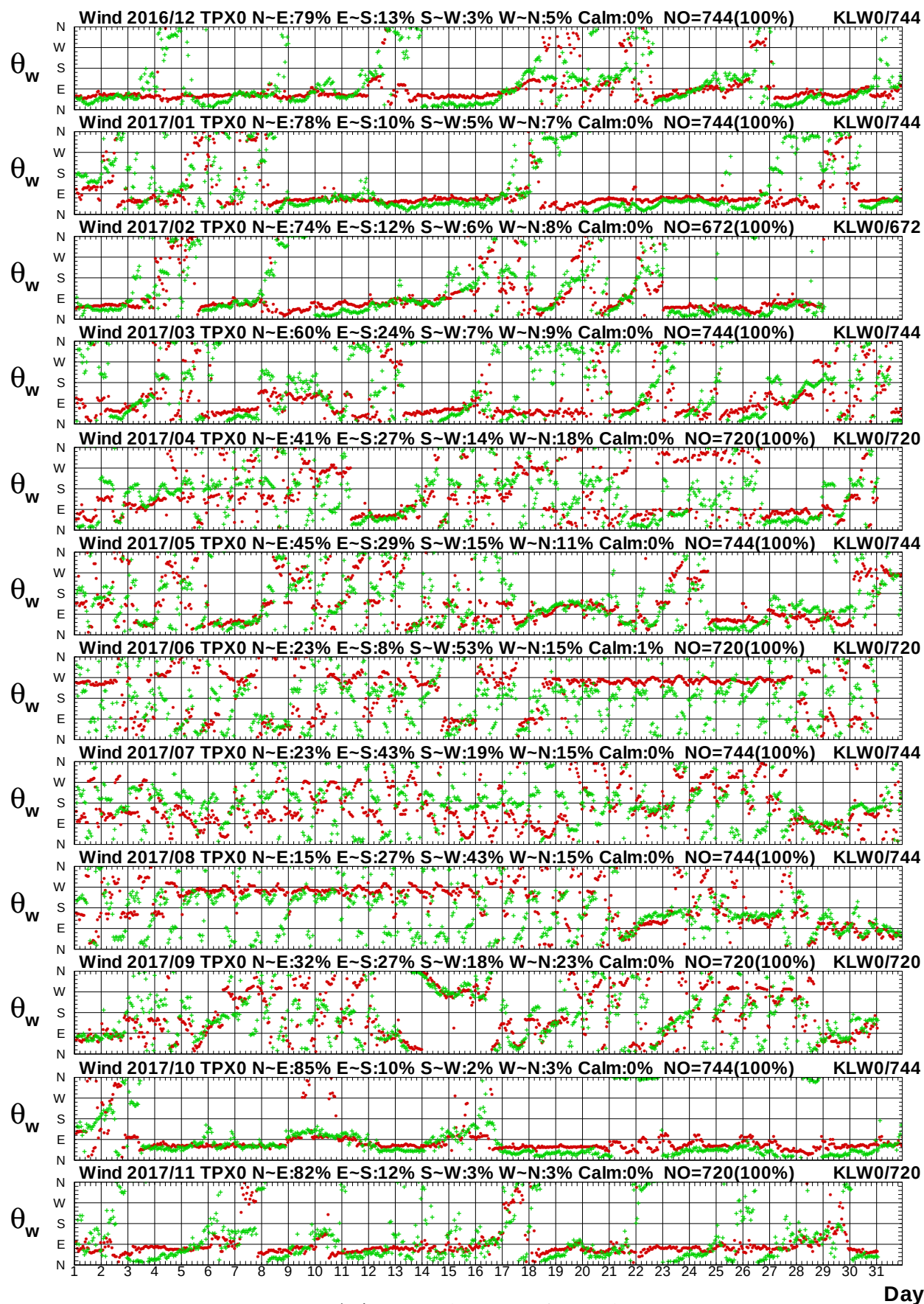


圖1.9b 2017年每月北苗海域 X 站與北端海域 W 站風向圖

W16CTPX0.1HA W16CKLW0.1H0 W171TPX0.1HA W171KLW0.1H0 W172TPX0.1HA W172KLW0.1H0
W173TPX0.1HA W173KLW0.1H0 W174TPX0.1HA W174KLW0.1H0 W175TPX0.1HA W175KLW0.1H0

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Wind Speed in Pei-Miao Seas of TPX0 at 2017

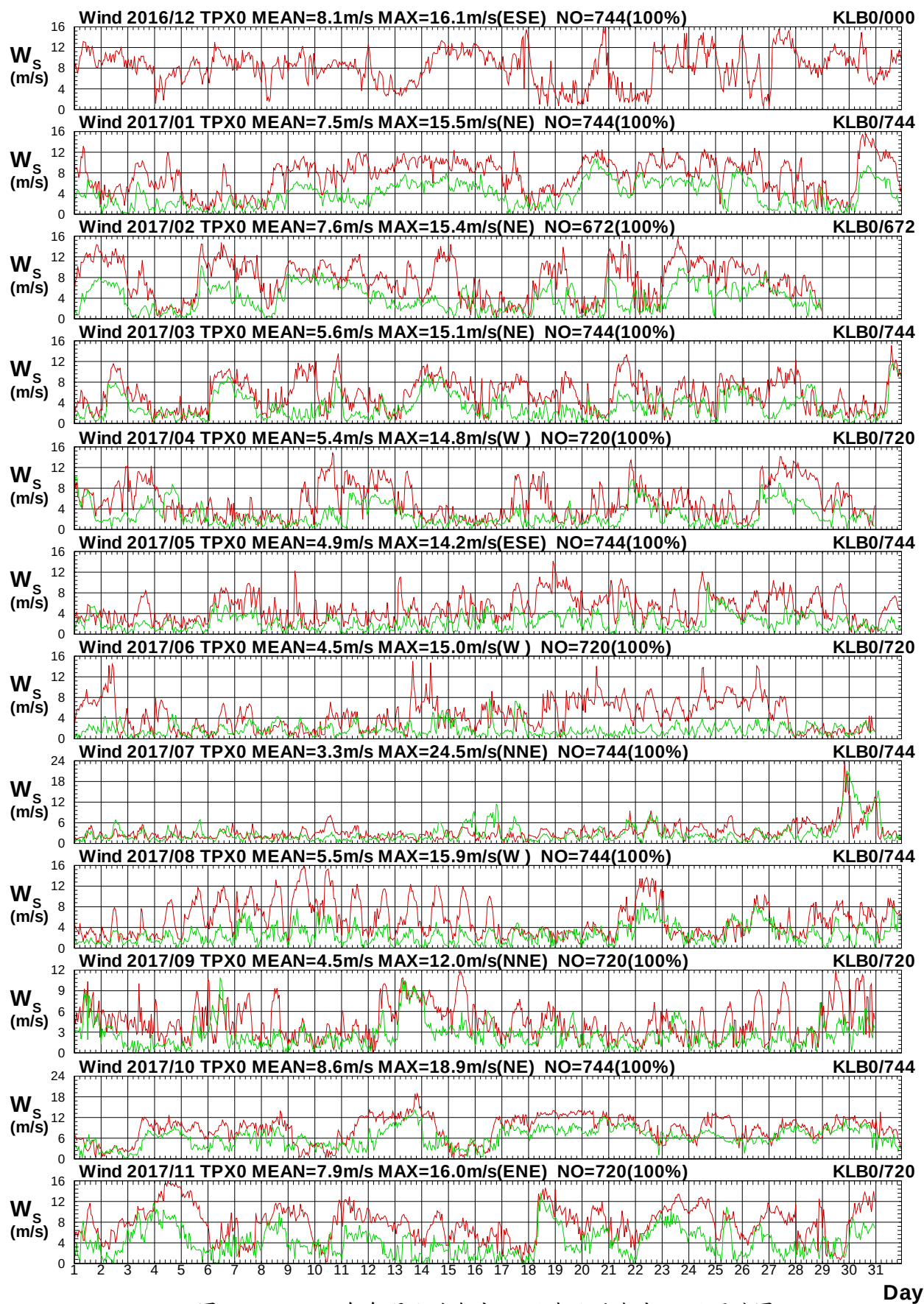


圖1.10a 2017年每月北苗海域 X 站與北端海域 B 站風速圖

W16CTPX0.1HA W16CKLB0.1H0 W171TPX0.1HA W171KLB0.1H0 W172TPX0.1HA W172KLB0.1H0
W173TPX0.1HA W173KLB0.1H0 W174TPX0.1HA W174KLB0.1H0 W175TPX0.1HA W175KLB0.1H0

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Wind Direction in Pei-Miao Seas of TPX0 at 2017

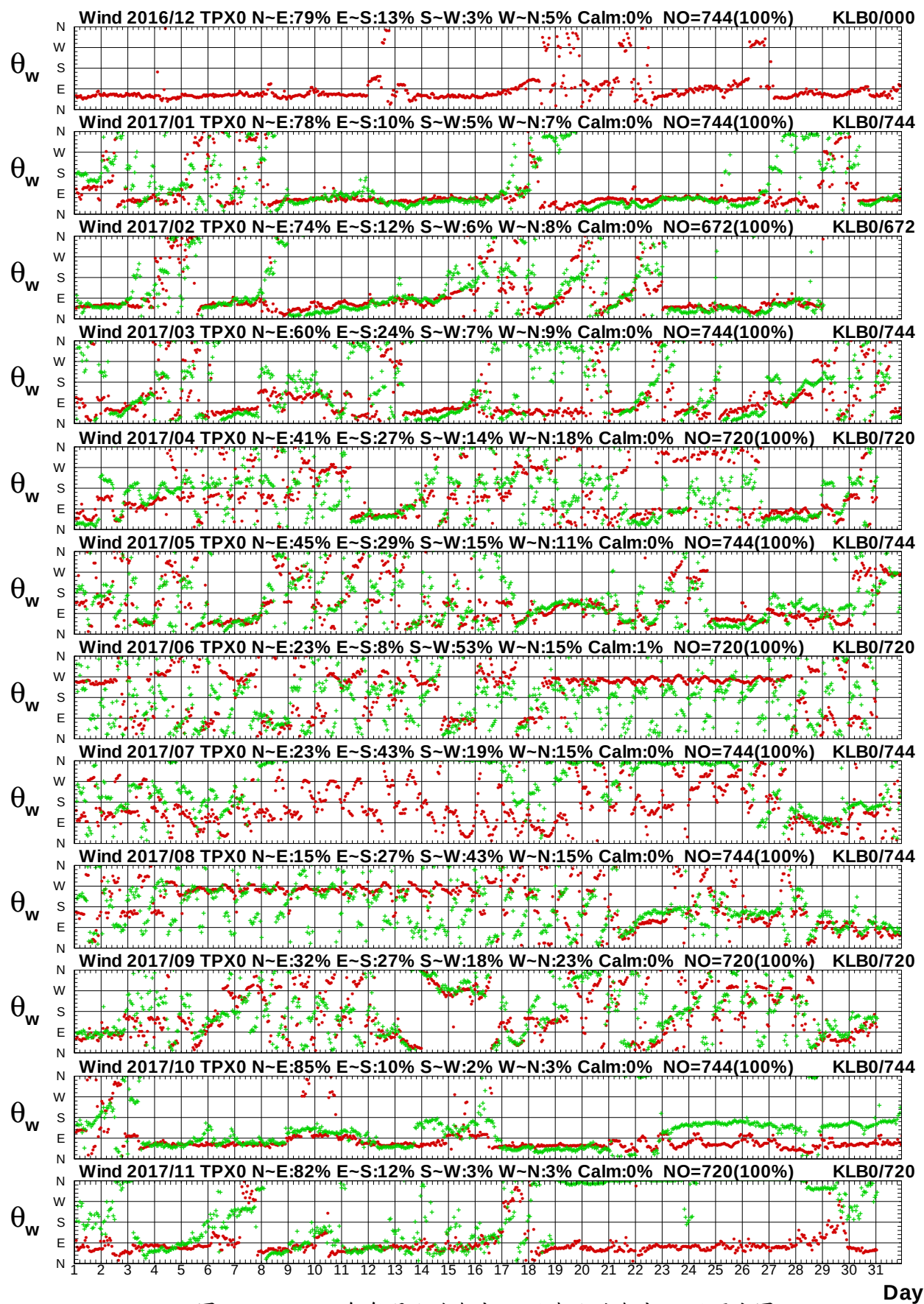


圖1.10b 2017年每月北苗海域 X 站與北端海域 B 站風向圖

W16CTPX0.1HA W16CKLB0.1H0 W171TPX0.1HA W171KLB0.1H0 W172TPX0.1HA W172KLB0.1H0
W173TPX0.1HA W173KLB0.1H0 W174TPX0.1HA W174KLB0.1H0 W175TPX0.1HA W175KLB0.1H0

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Wind Speed in Pei-Miao Seas of TPX0 at 2017

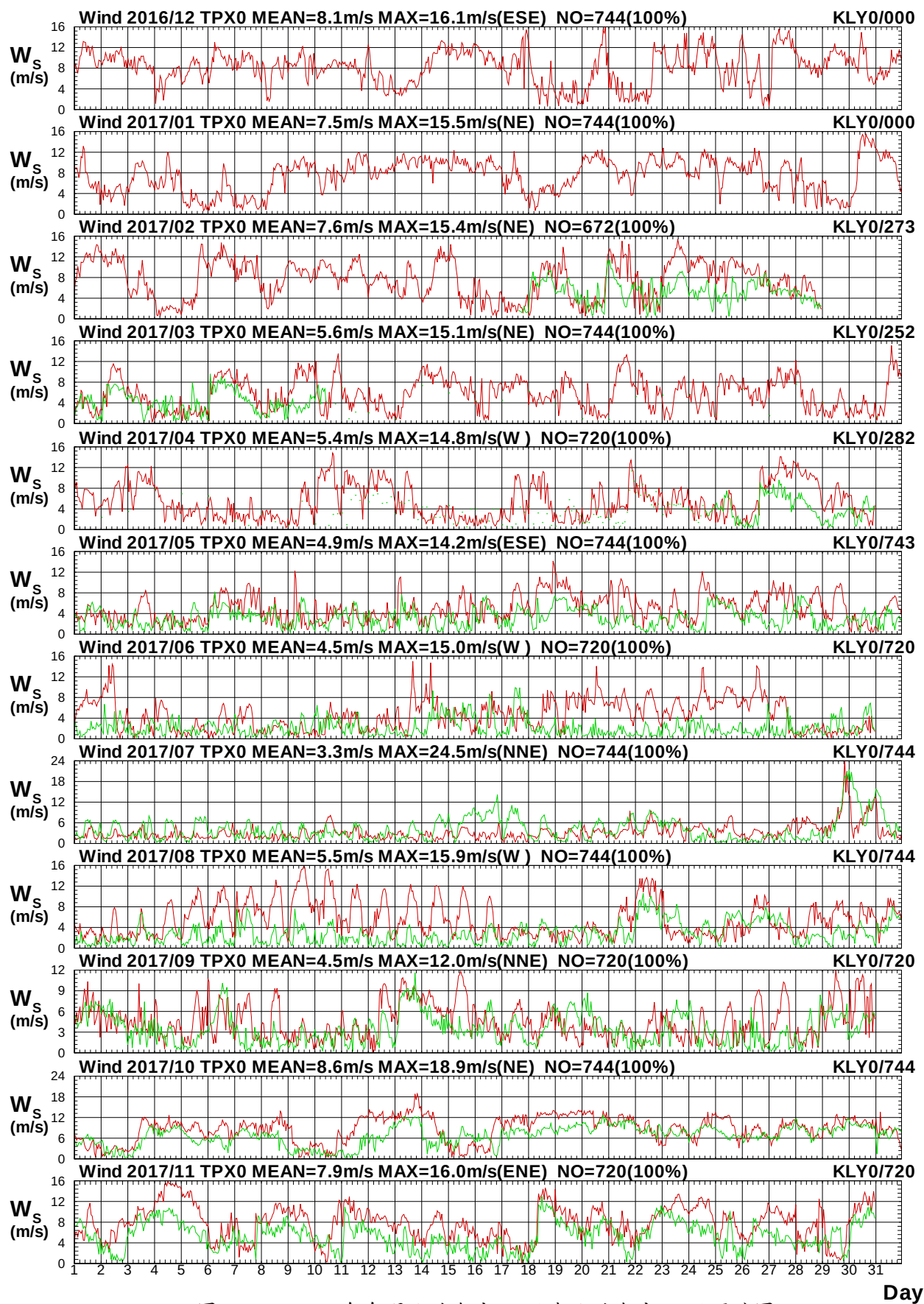


圖1.11a 2017年每月北苗海域 X 站與北端海域 Y 站風速圖

W16CTPX0.1HA W16CKLY0.1H0 W171TPX0.1HA W171KLY0.1H0 W172TPX0.1HA W172KLY0.1H0
W173TPX0.1HA W173KLY0.1H0 W174TPX0.1HA W174KLY0.1H0 W175TPX0.1HA W175KLY0.1H0

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Wind Direction in Pei-Miao Seas of TPX0 at 2017

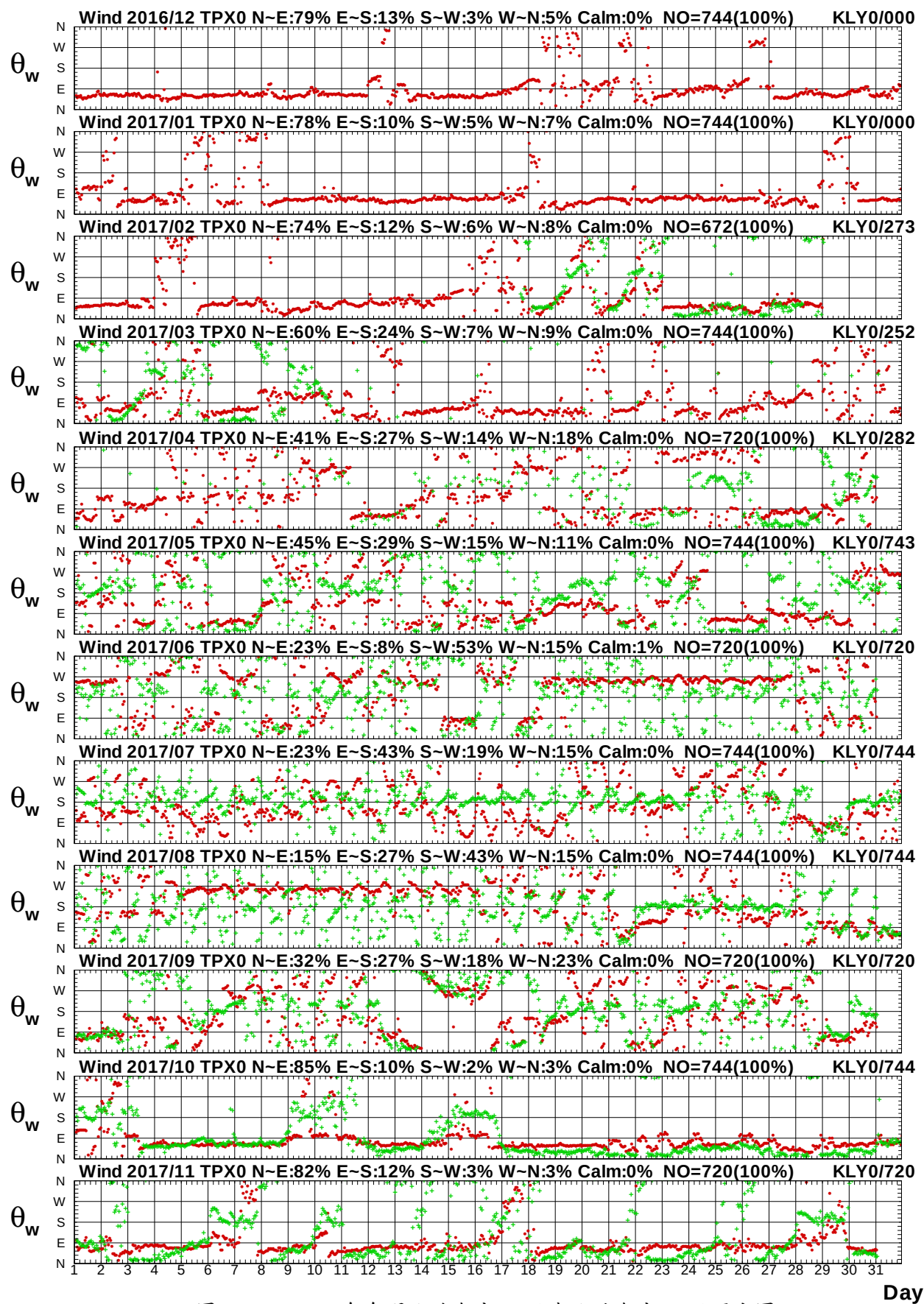


圖1.11b 2017年每月北苗海域 X 站與北端海域 Y 站風向圖

W16CTPX0.1HA W16CKLY0.1H0 W171TPX0.1HA W171KLY0.1H0 W172TPX0.1HA W172KLY0.1H0
W173TPX0.1HA W173KLY0.1H0 W174TPX0.1HA W174KLY0.1H0 W175TPX0.1HA W175KLY0.1H0

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Wind Speed in Pei-Miao Seas of TPX0 at 2017

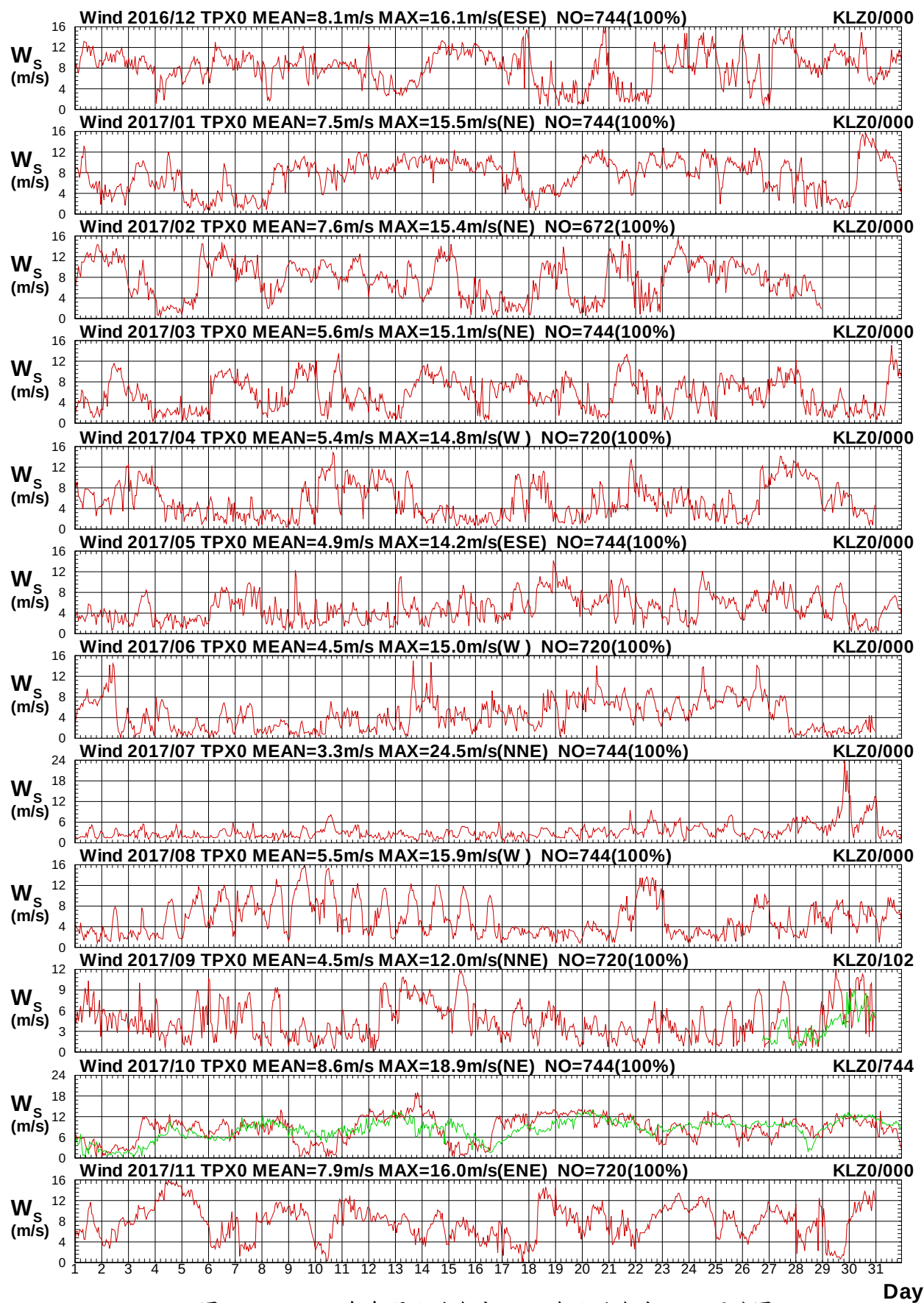


圖1.12a 2017年每月北苗海域 X 站與北端海域 Z 站風速圖

W16CTPX0.1HA W16CKLZ0.1H0 W171TPX0.1HA W171KLZ0.1H0 W172TPX0.1HA W172KLZ0.1H0
W173TPX0.1HA W173KLZ0.1H0 W174TPX0.1HA W174KLZ0.1H0 W175TPX0.1HA W175KLZ0.1H0

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Wind Direction in Pei-Miao Seas of TPX0 at 2017

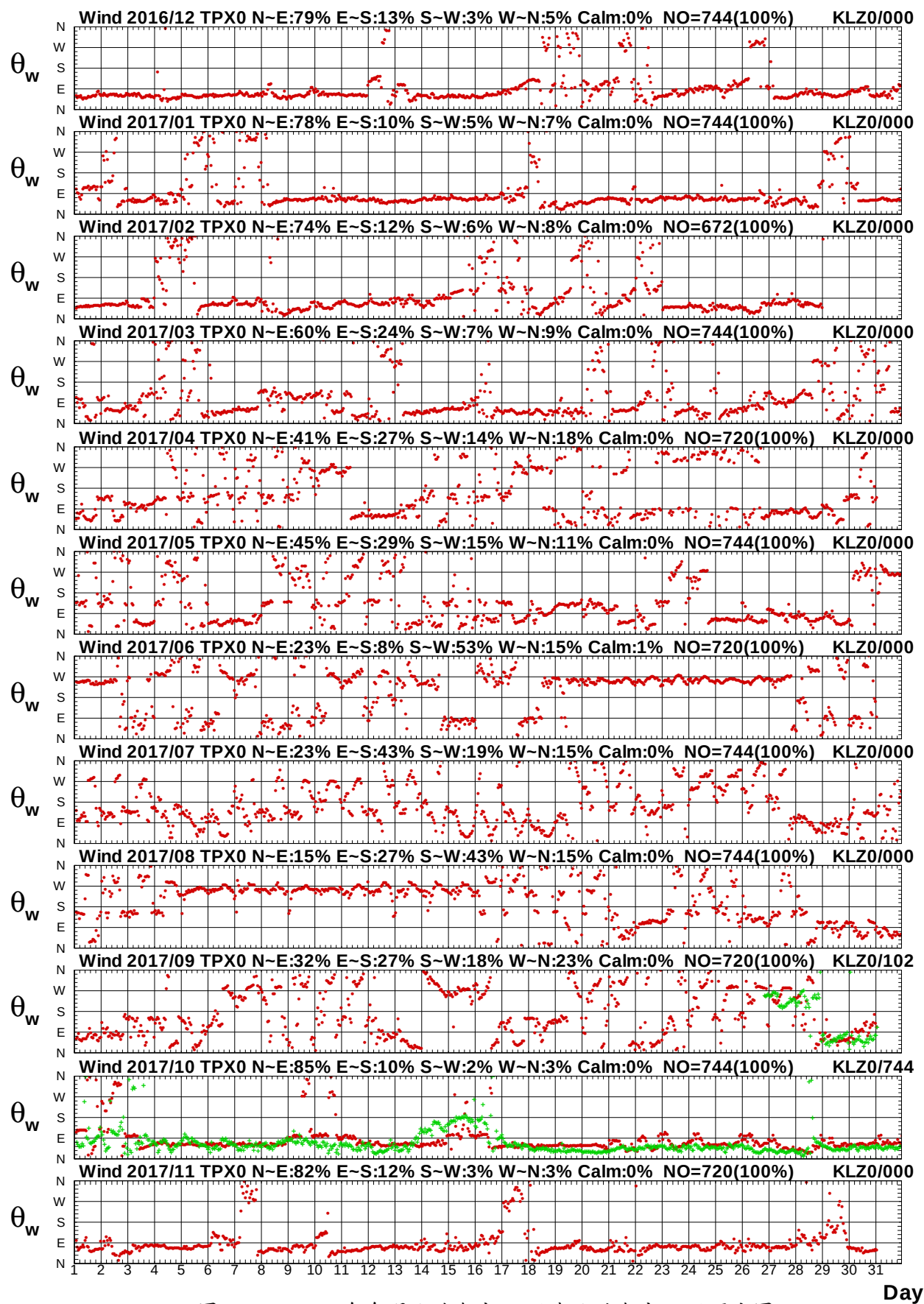


圖1.12b 2017年每月北苗海域 X 站與北端海域 Z 站風向圖

W16CTPX0.1HA W16CKLZ0.1H0 W171TPX0.1HA W171KLZ0.1H0 W172TPX0.1HA W172KLZ0.1H0
W173TPX0.1HA W173KLZ0.1H0 W174TPX0.1HA W174KLZ0.1H0 W175TPX0.1HA W175KLZ0.1H0

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Wind Speed in Pei-Miao Seas of TPX0 at 2017

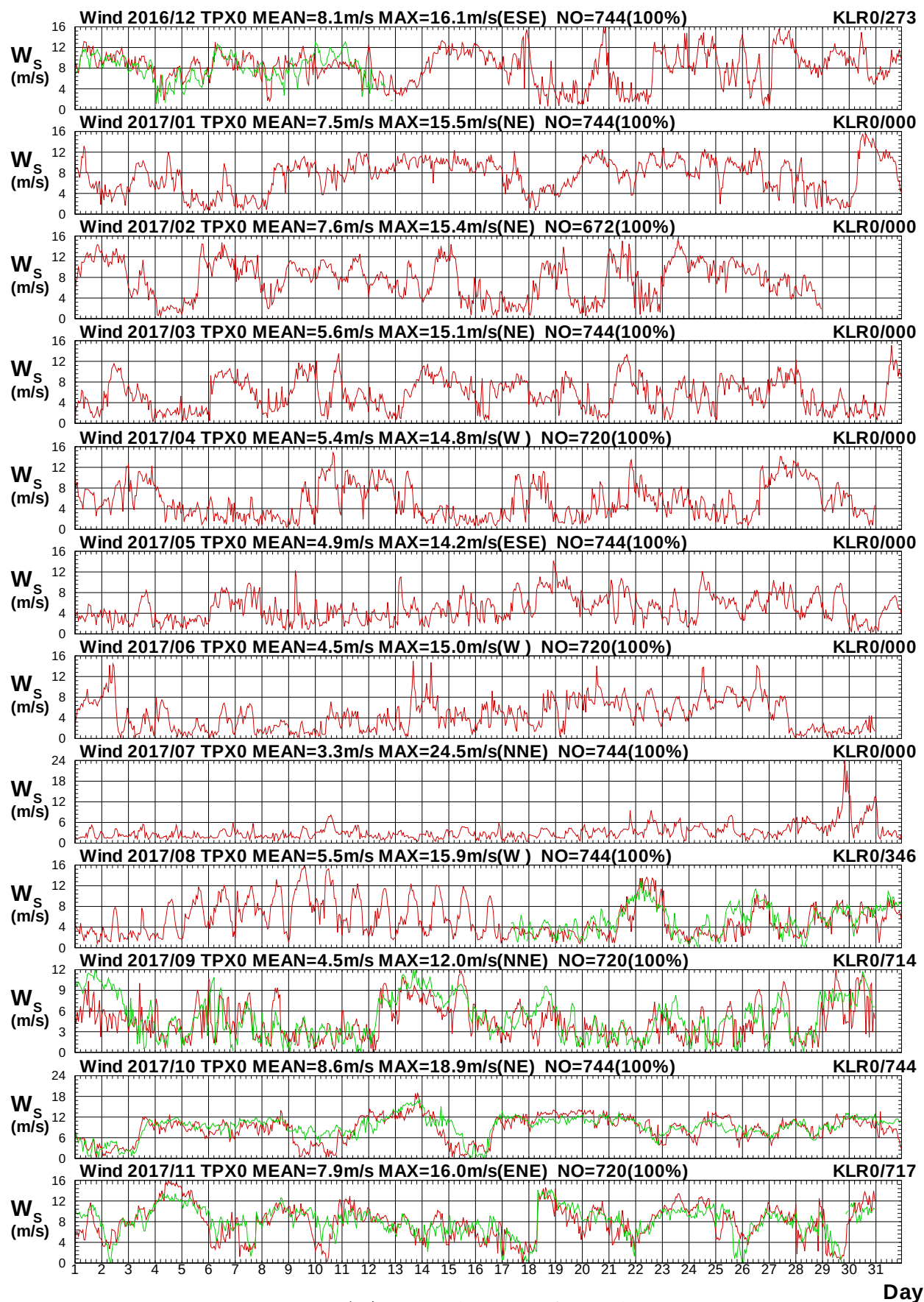


圖1.13a 2017年每月北苗海域 X 站與北端海域 R 站風速圖

W16CTPX0.1HA W16CKLR0.1H0 W171TPX0.1HA W171KLR0.1H0 W172TPX0.1HA W172KLR0.1H0
W173TPX0.1HA W173KLR0.1H0 W174TPX0.1HA W174KLR0.1H0 W175TPX0.1HA W175KLR0.1H0

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Wind Direction in Pei-Miao Seas of TPX0 at 2017

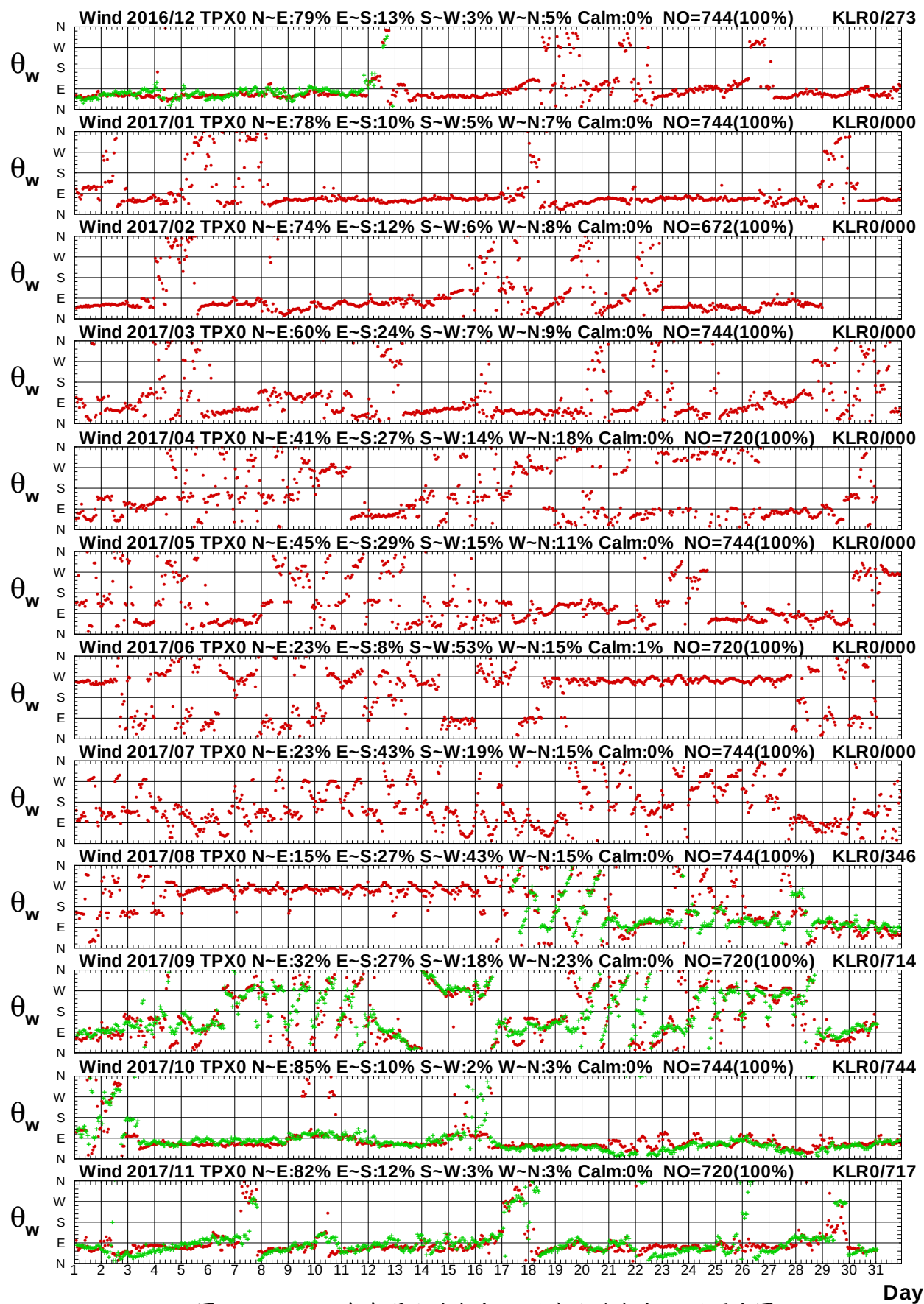


圖1.13b 2017年每月北苗海域 X 站與北端海域 R 站風向圖

W16CTPX0.1HA W16CKLR0.1H0 W171TPX0.1HA W171KLR0.1H0 W172TPX0.1HA W172KLR0.1H0
W173TPX0.1HA W173KLR0.1H0 W174TPX0.1HA W174KLR0.1H0 W175TPX0.1HA W175KLR0.1H0

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Wind Speed in Pei-Miao Seas of TPX0 at 2017

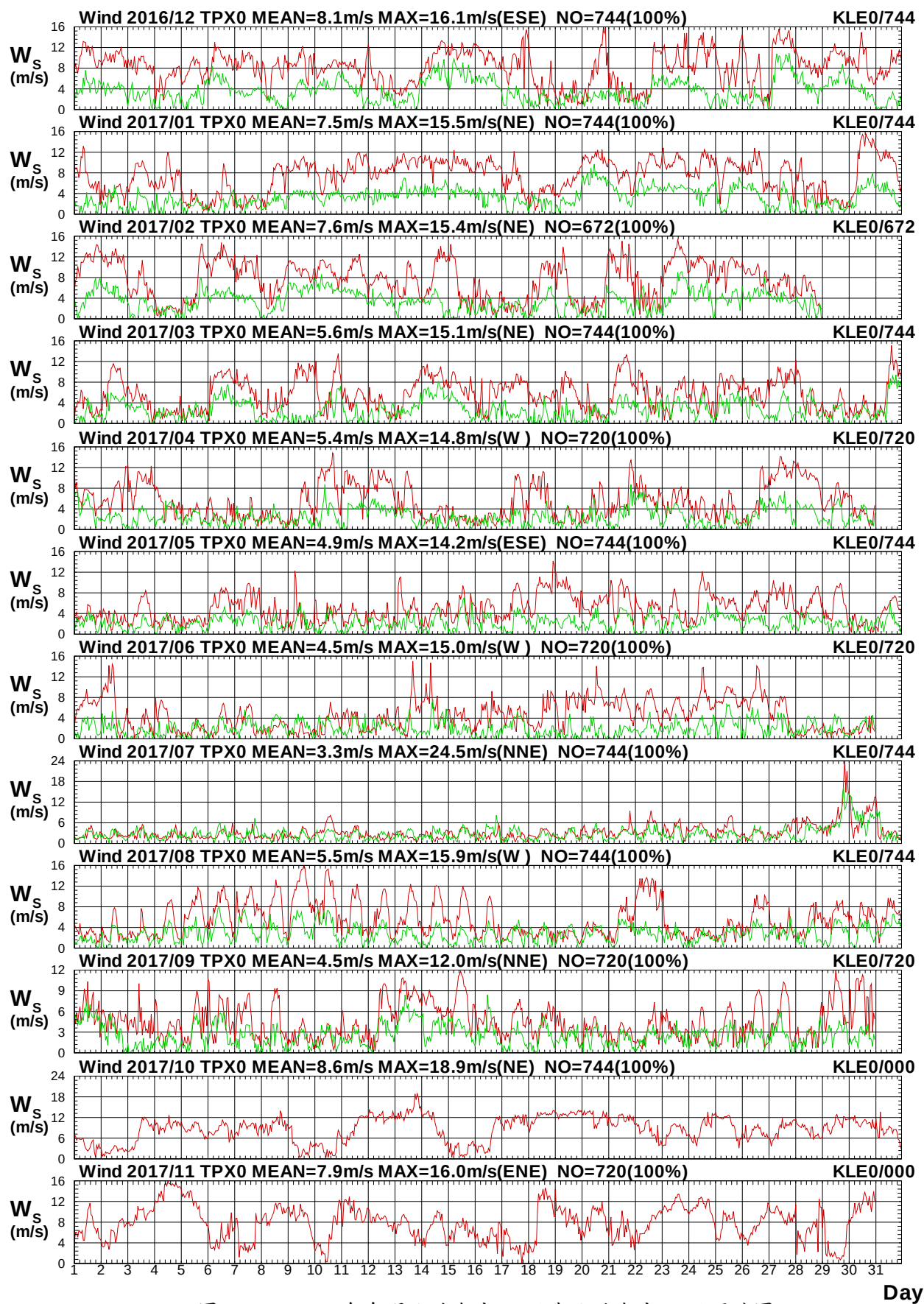


圖1.14a 2017年每月北苗海域 X 站與北端海域 E 站風速圖

W16CTPX0.1HA W16CKLE0.1H0 W171TPX0.1HA W171KLE0.1H0 W172TPX0.1HA W172KLE0.1H0
W173TPX0.1HA W173KLE0.1H0 W174TPX0.1HA W174KLE0.1H0 W175TPX0.1HA W175KLE0.1H0

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Wind Direction in Pei-Miao Seas of TPX0 at 2017

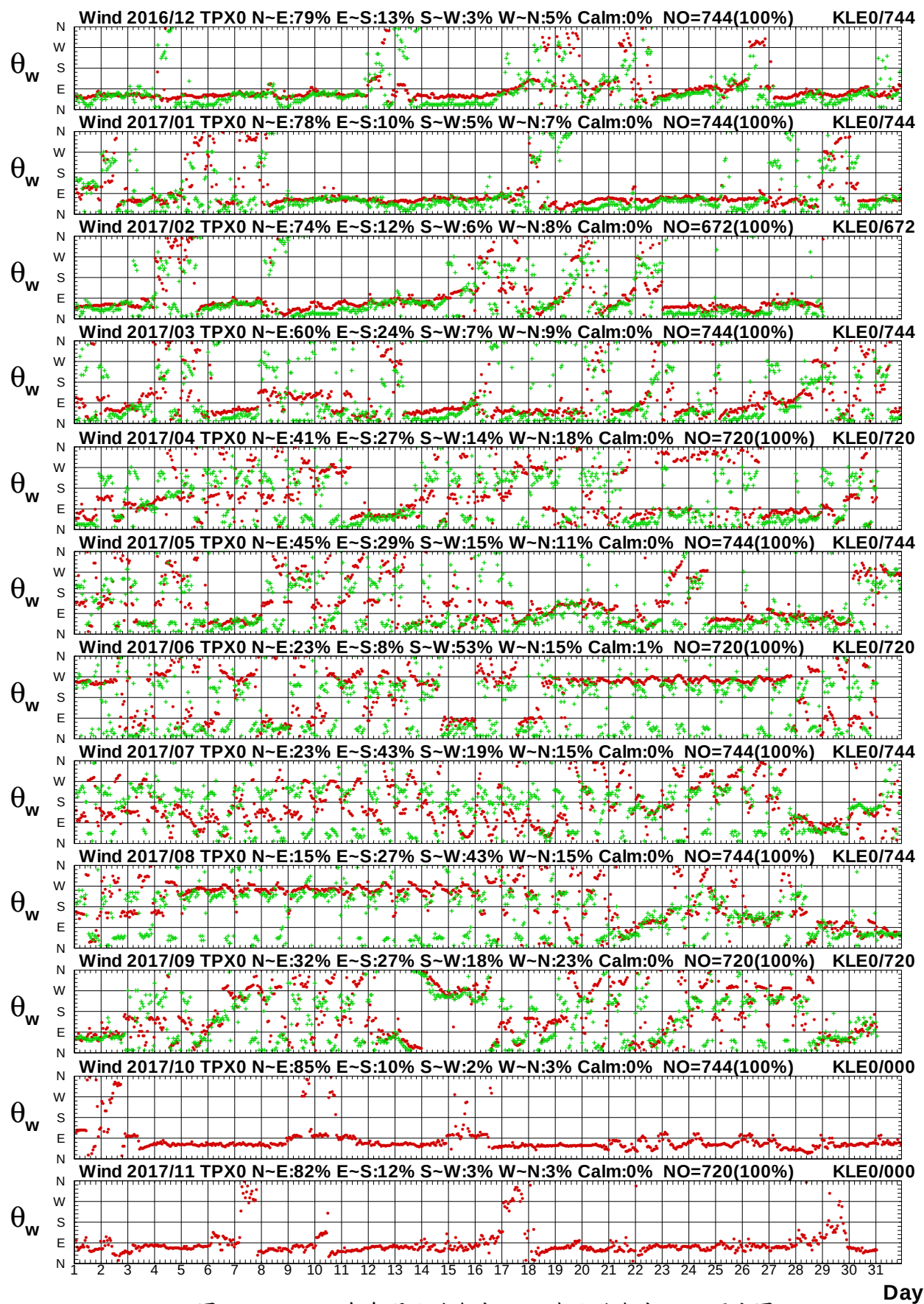


圖1.14b 2017年每月北苗海域 X 站與北端海域 E 站風向圖

W16CTPX0.1HA W16CKLE0.1H0 W171TPX0.1HA W171KLE0.1H0 W172TPX0.1HA W172KLE0.1H0
W173TPX0.1HA W173KLE0.1H0 W174TPX0.1HA W174KLE0.1H0 W175TPX0.1HA W175KLE0.1H0

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Wind Speed in Pei-Miao Seas of TPX0 at 2017

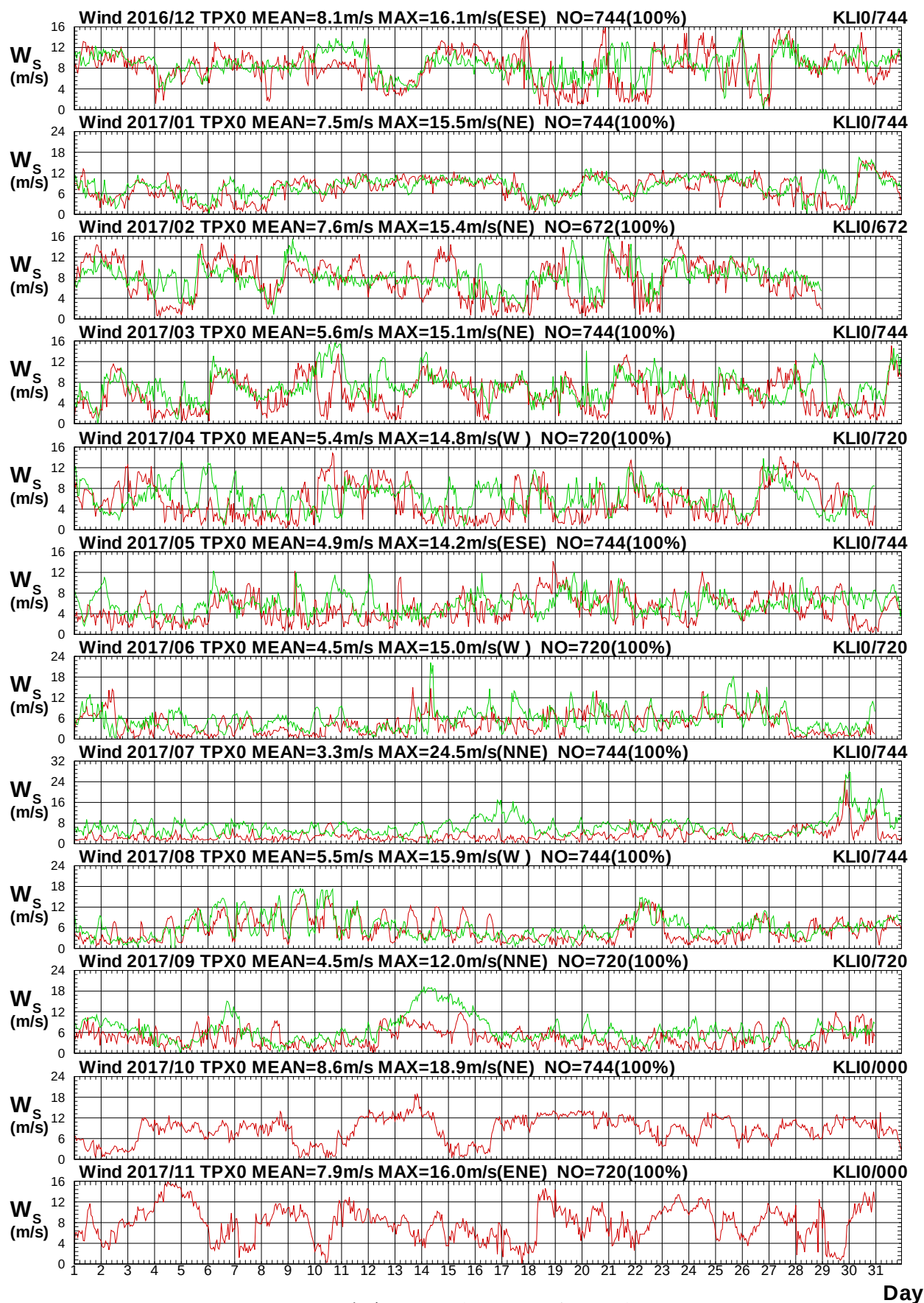


圖1.15a 2017年每月北苗海域 X 站與北端海域 I 站風速圖

W16CTPX0.1HA W16CKLI0.1H0 W171TPX0.1HA W171KLI0.1H0 W172TPX0.1HA W172KLI0.1H0
W173TPX0.1HA W173KLI0.1H0 W174TPX0.1HA W174KLI0.1H0 W175TPX0.1HA W175KLI0.1H0

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Wind Direction in Pei-Miao Seas of TPX0 at 2017

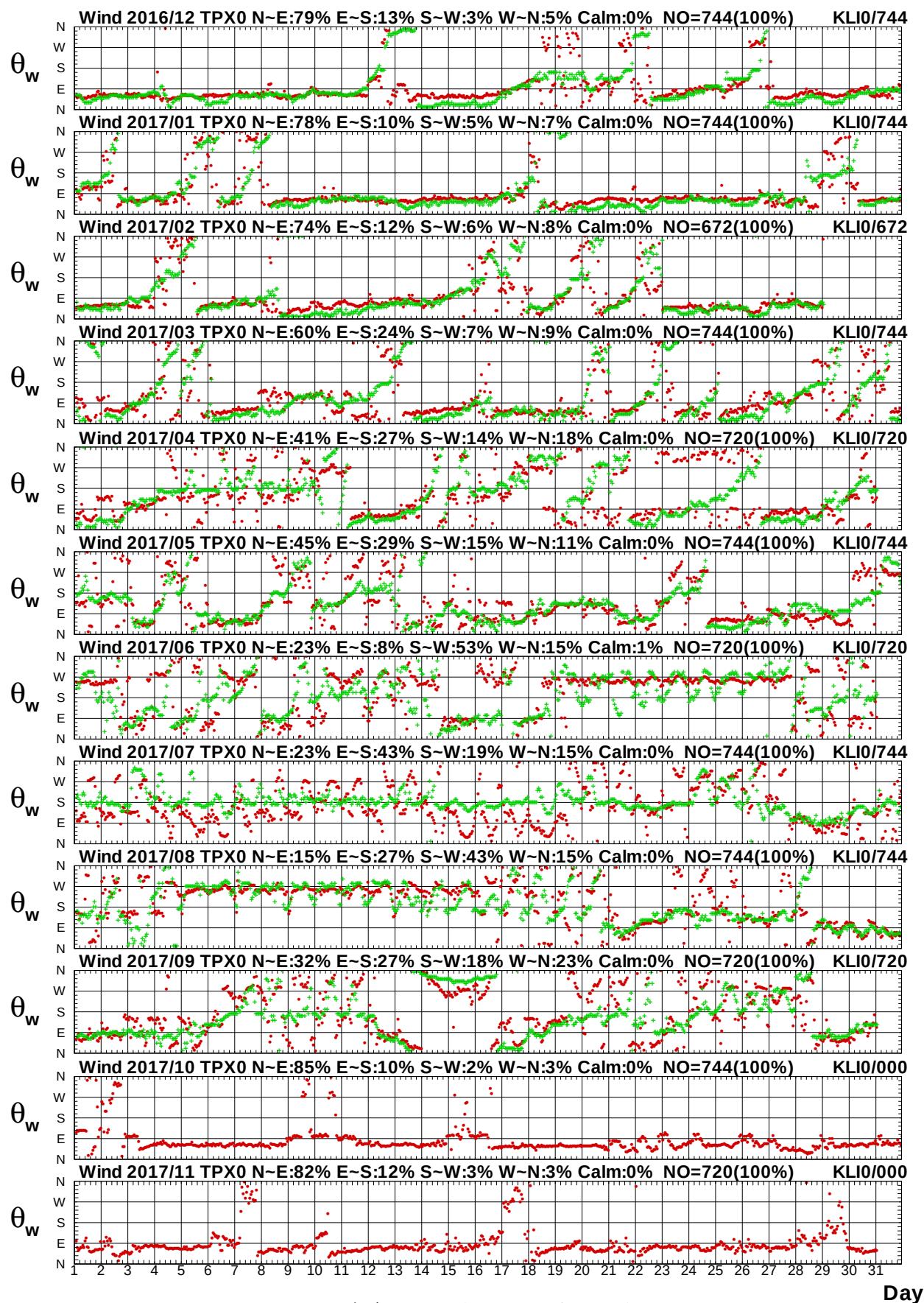


圖1.15b 2017年每月北苗海域 X 站與北端海域 I 站風向圖

W16CTPX0.1HA W16CKLI0.1H0 W171TPX0.1HA W171KLI0.1H0 W172TPX0.1HA W172KLI0.1H0
W173TPX0.1HA W173KLI0.1H0 W174TPX0.1HA W174KLI0.1H0 W175TPX0.1HA W175KLI0.1H0

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Wind Speed in Pei-Miao Seas of TPX0 at 2017

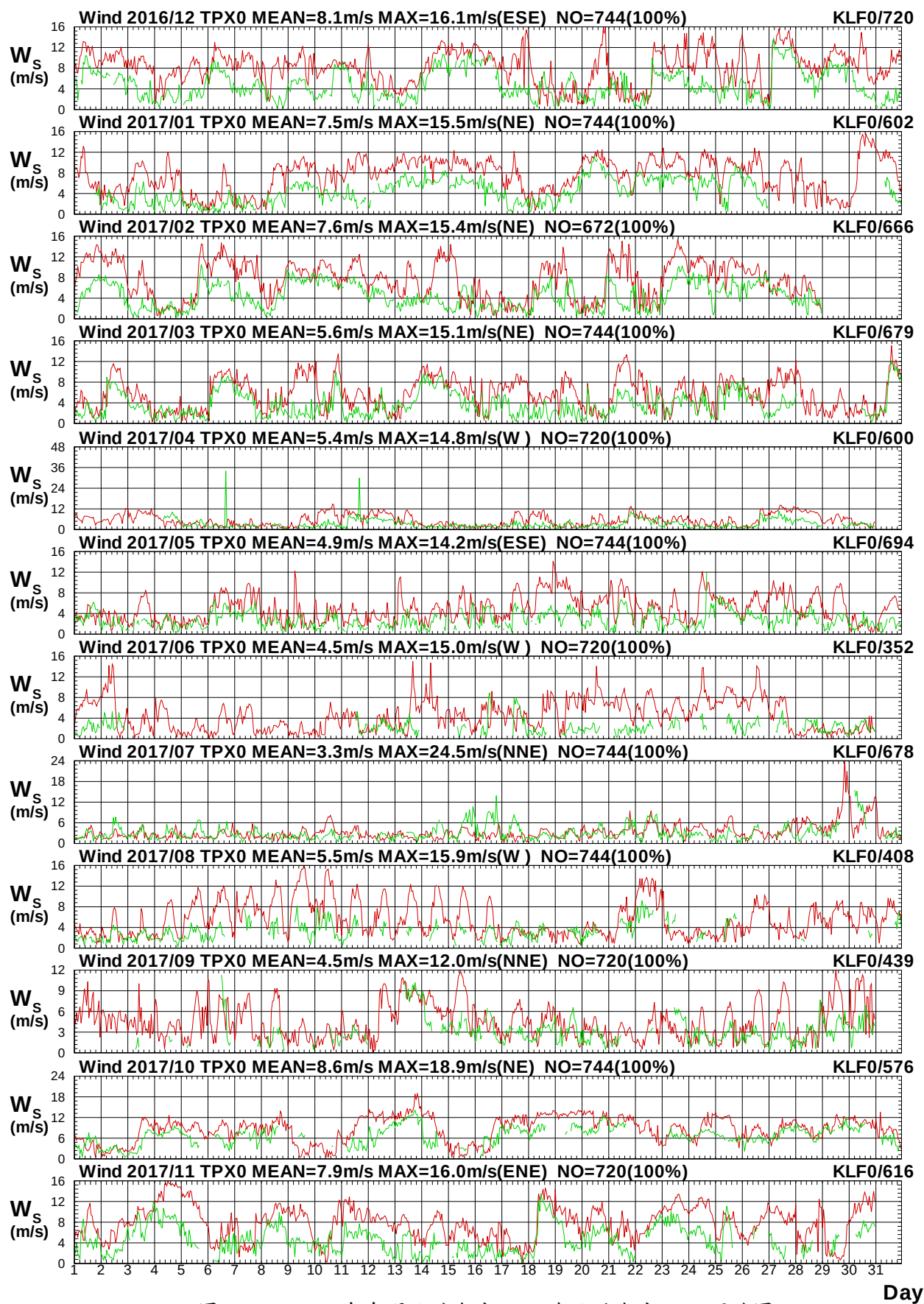


圖1.16a 2017年每月北苗海域 X 站與北端海域 F 站風速圖

W16CTPX0.1HA W16CKLF0.1H0 W171TPX0.1HA W171KLF0.1H0 W172TPX0.1HA W172KLF0.1H0
W173TPX0.1HA W173KLF0.1H0 W174TPX0.1HA W174KLF0.1H0 W175TPX0.1HA W175KLF0.1H0

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Wind Direction in Pei-Miao Seas of TPX0 at 2017

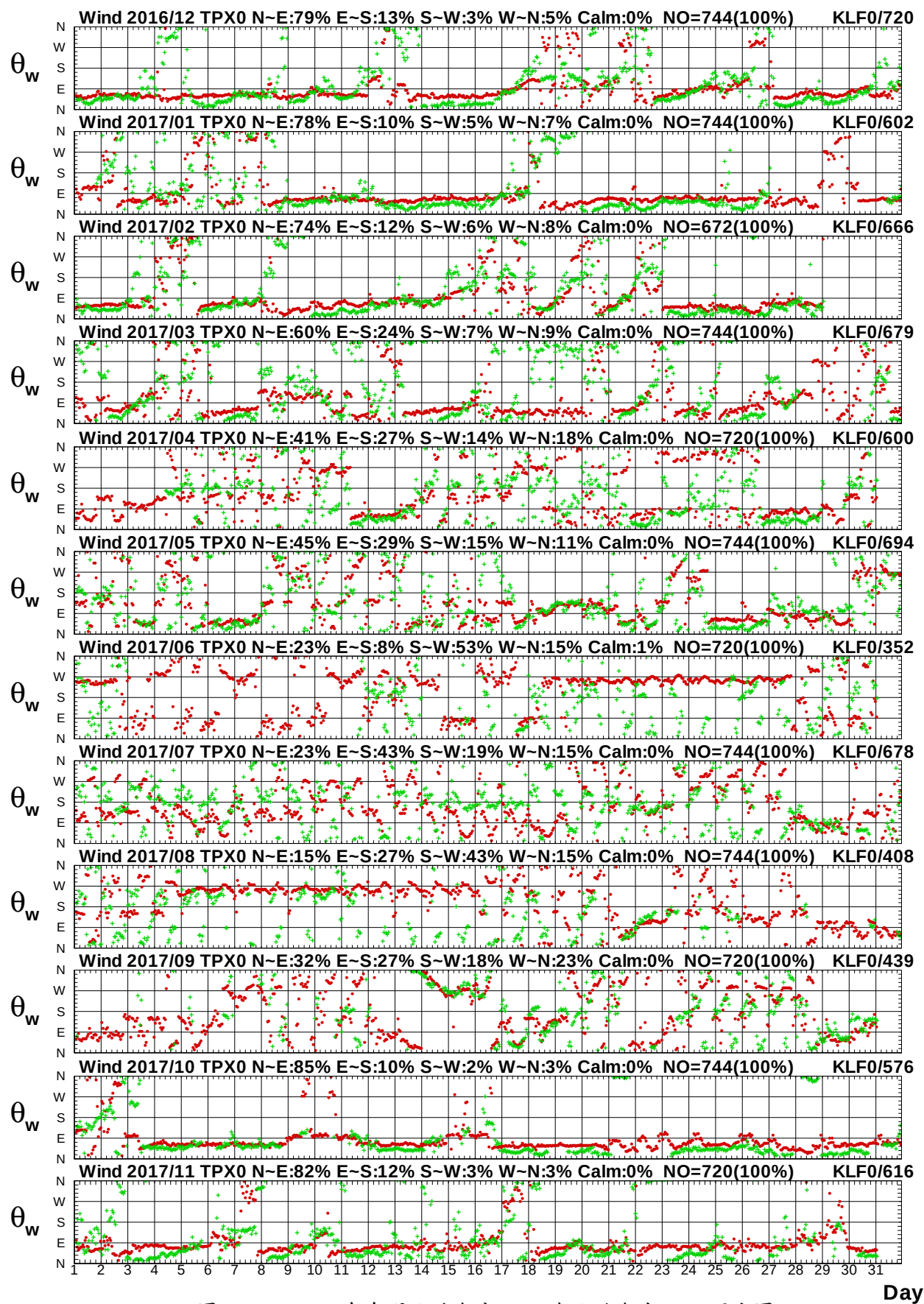


圖1.16b 2017年每月北苗海域 X 站與北端海域 F 站風向圖

W16CTPX0.1HA W16CKLF0.1H0 W171TPX0.1HA W171KLF0.1H0 W172TPX0.1HA W172KLF0.1H0
W173TPX0.1HA W173KLF0.1H0 W174TPX0.1HA W174KLF0.1H0 W175TPX0.1HA W175KLF0.1H0

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Wind Speed in Pei-Miao Seas of TPX0 at 2017

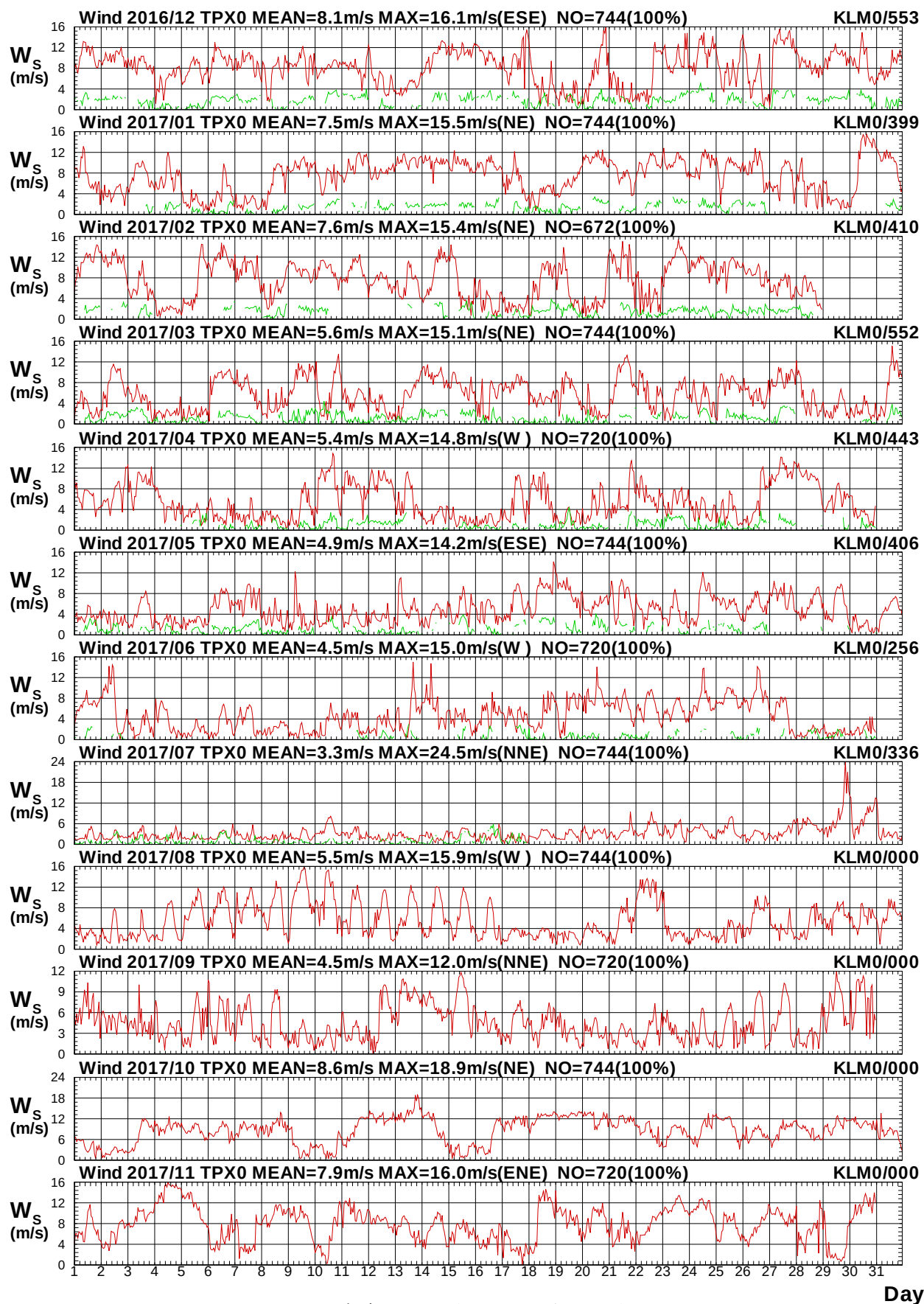


圖1.17a 2017年每月北苗海域 X 站與北端海域 M 站風速圖

W16CTPX0.1HA W16CKLM0.1H0 W171TPX0.1HA W171KLM0.1H0 W172TPX0.1HA W172KLM0.1H0
W173TPX0.1HA W173KLM0.1H0 W174TPX0.1HA W174KLM0.1H0 W175TPX0.1HA W175KLM0.1H0

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Wind Direction in Pei-Miao Seas of TPX0 at 2017

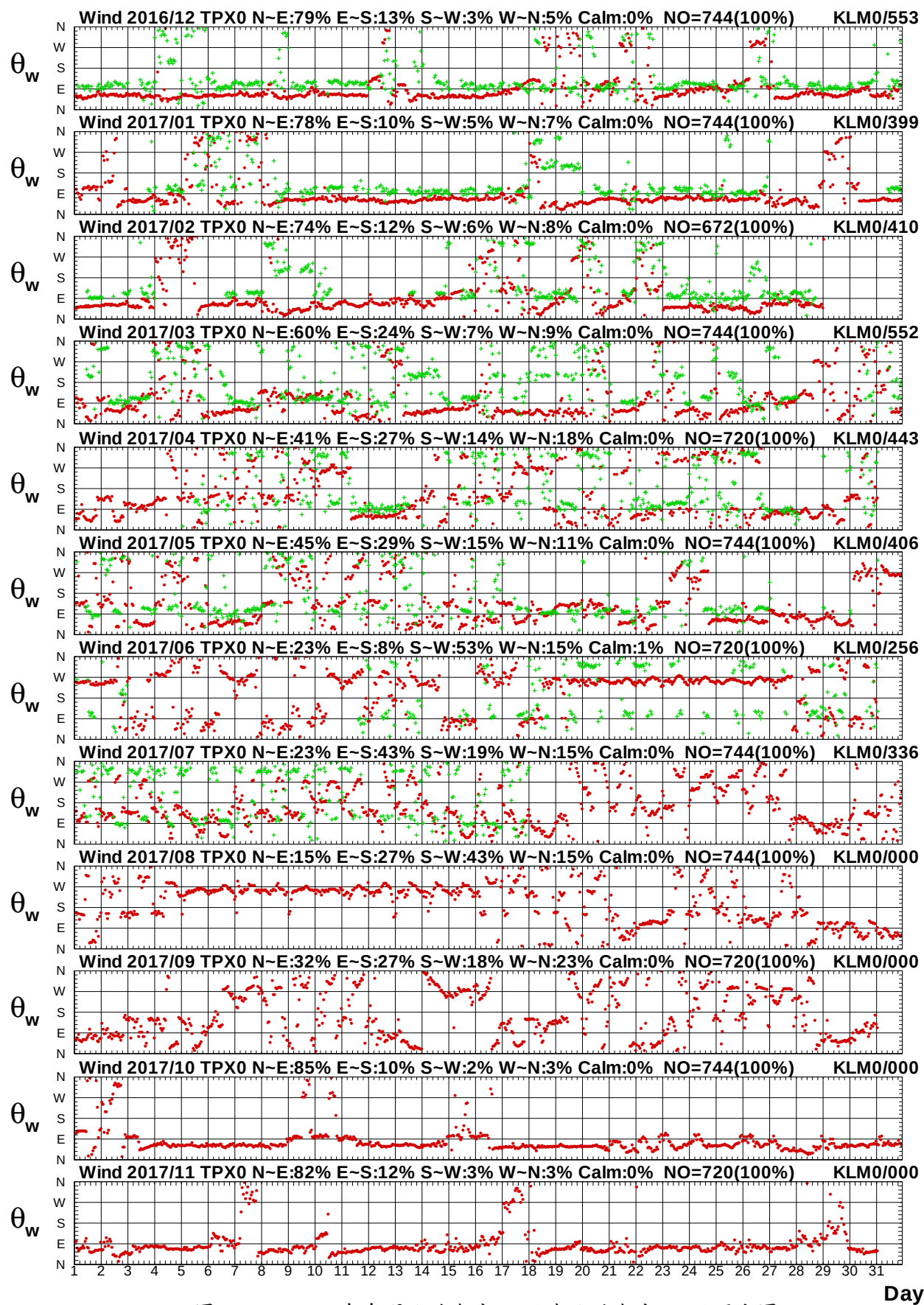


圖1.17b 2017年每月北苗海域 X 站與北端海域 M 站風向圖

W16CTPX0.1HA W16CKLM0.1H0 W171TPX0.1HA W171KLM0.1H0 W172TPX0.1HA W172KLM0.1H0
W173TPX0.1HA W173KLM0.1H0 W174TPX0.1HA W174KLM0.1H0 W175TPX0.1HA W175KLM0.1H0

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Wind Speed in Pei-Miao Seas of TPX0 at 2017

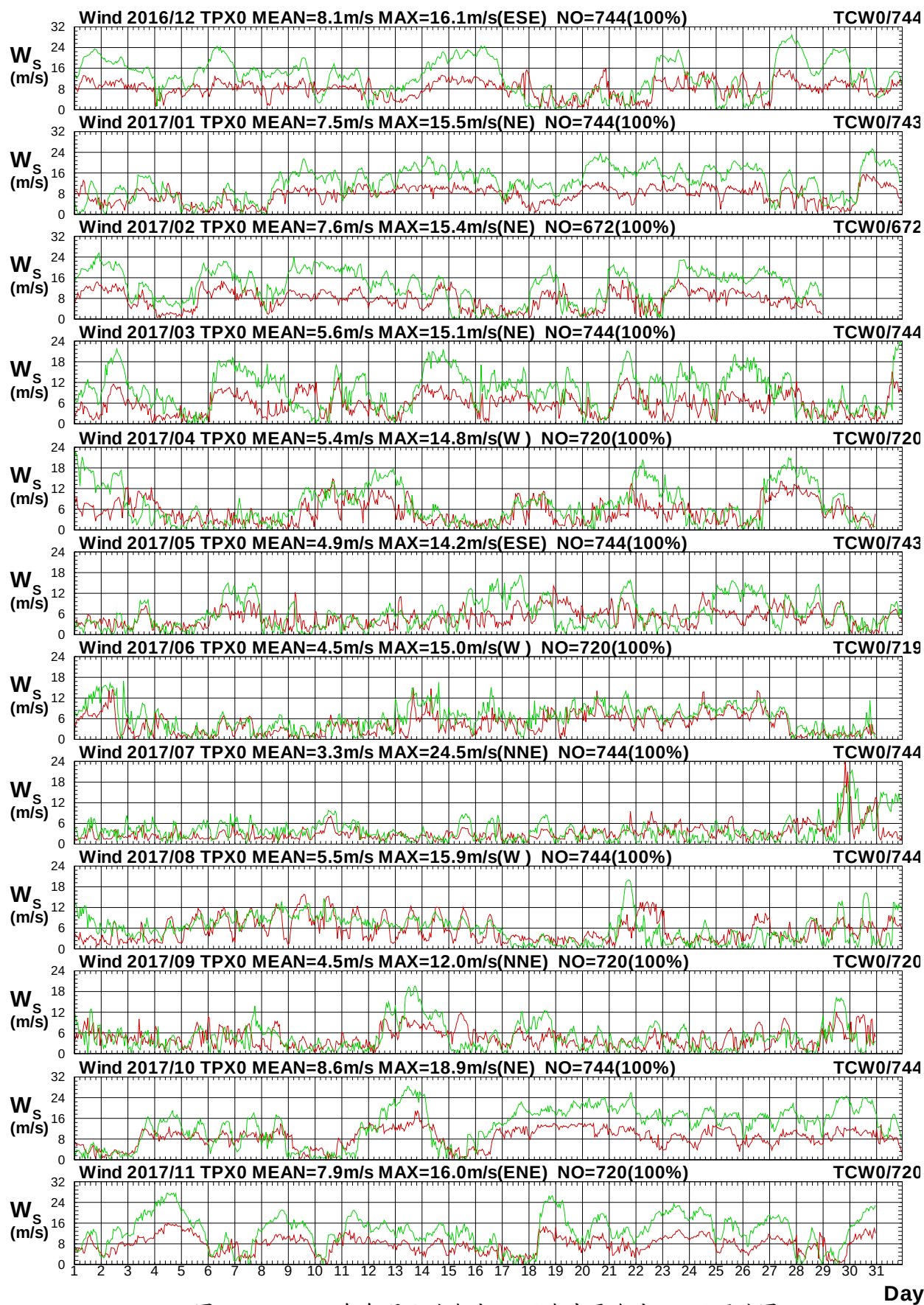


圖1.18a 2017年每月北苗海域 X 站與中雲海域 W 站風速圖

W16CTPX0.1HA W16CTCW0.1H0 W171TPX0.1HA W171TCW0.1H0 W172TPX0.1HA W172TCW0.1H0
W173TPX0.1HA W173TCW0.1H0 W174TPX0.1HA W174TCW0.1H0 W175TPX0.1HA W175TCW0.1H0

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Wind Direction in Pei-Miao Seas of TPX0 at 2017

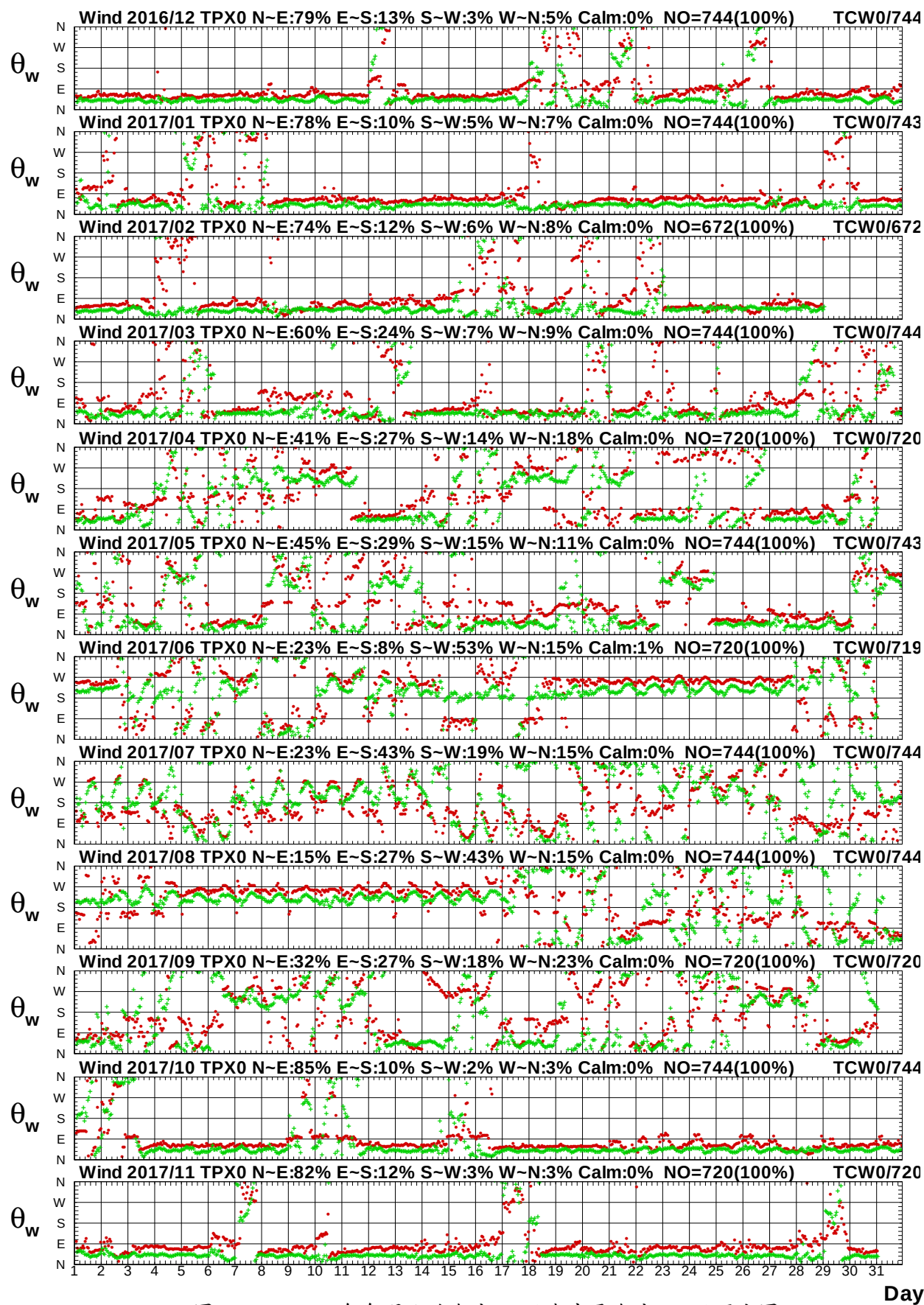


圖1.18b 2017年每月北苗海域 X 站與中雲海域 W 站風向圖

W16CTPX0.1HA W16CTCW0.1H0 W171TPX0.1HA W171TCW0.1H0 W172TPX0.1HA W172TCW0.1H0

W173TPX0.1HA W173TCW0.1H0 W174TPX0.1HA W174TCW0.1H0 W175TPX0.1HA W175TCW0.1H0

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Wind Speed in Pei-Miao Seas of TPX0 at 2017

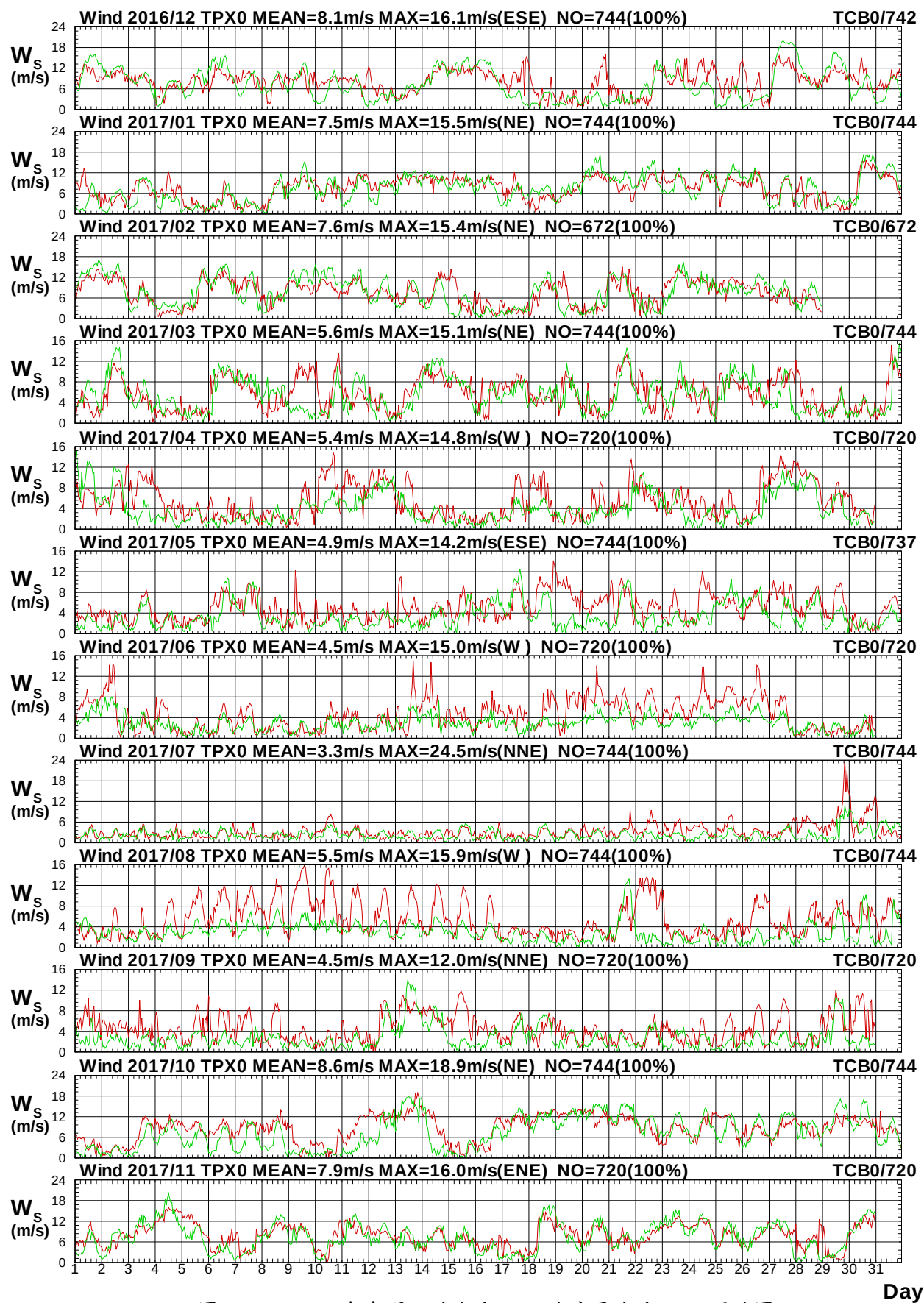


圖1.19a 2017年每月北苗海域 X 站與中雲海域 B 站風速圖

W16CTPX0.1HA W16CTCB0.1H0 W171TPX0.1HA W171TCB0.1H0 W172TPX0.1HA W172TCB0.1H0
W173TPX0.1HA W173TCB0.1H0 W174TPX0.1HA W174TCB0.1H0 W175TPX0.1HA W175TCB0.1H0

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Wind Direction in Pei-Miao Seas of TPX0 at 2017

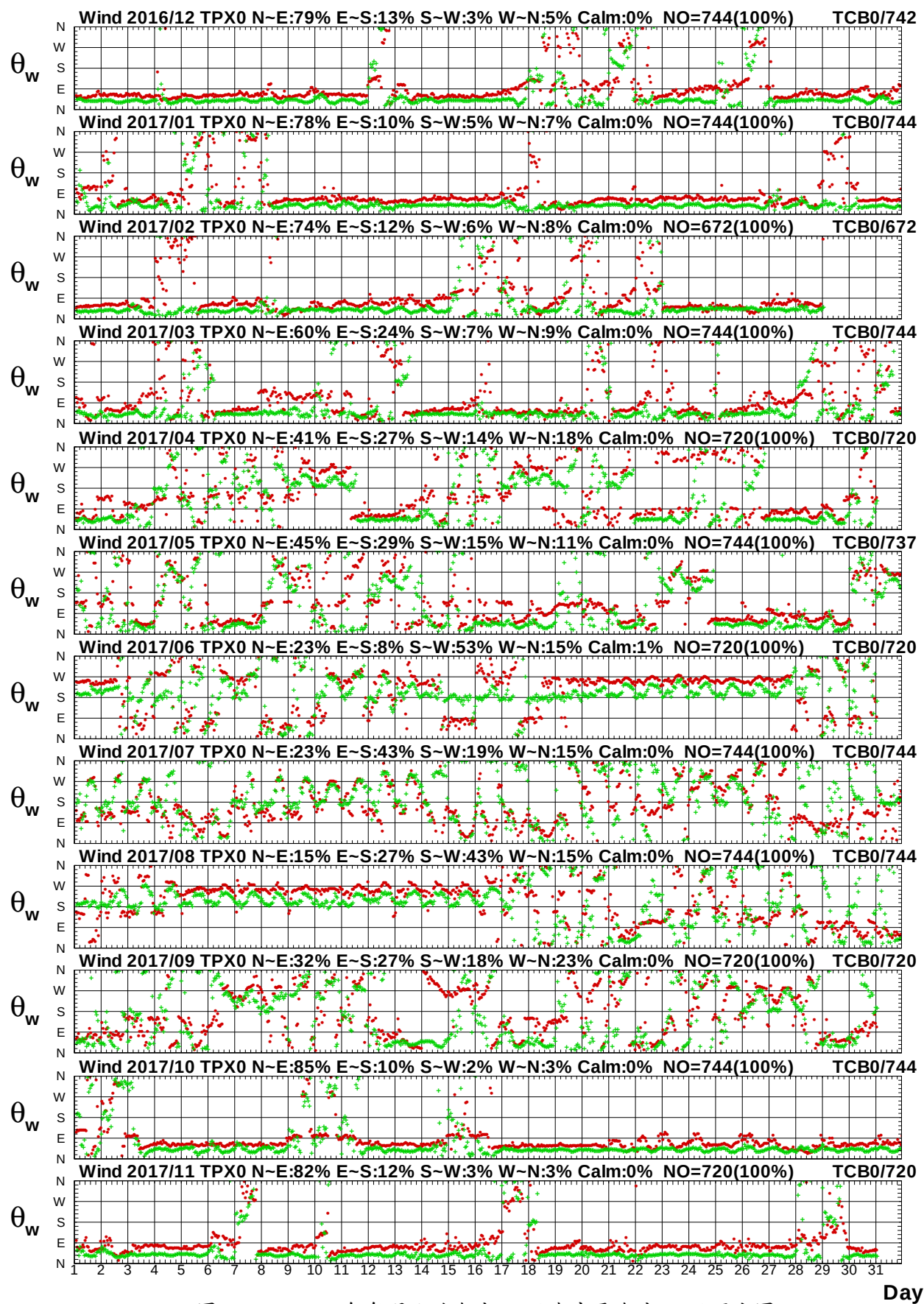


圖1.19b 2017年每月北苗海域 X 站與中雲海域 B 站風向圖

W16CTPX0.1HA W16CTCB0.1H0 W171TPX0.1HA W171TCB0.1H0 W172TPX0.1HA W172TCB0.1H0
W173TPX0.1HA W173TCB0.1H0 W174TPX0.1HA W174TCB0.1H0 W175TPX0.1HA W175TCB0.1H0

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Wind Speed in Pei-Miao Seas of TPX0 at 2017

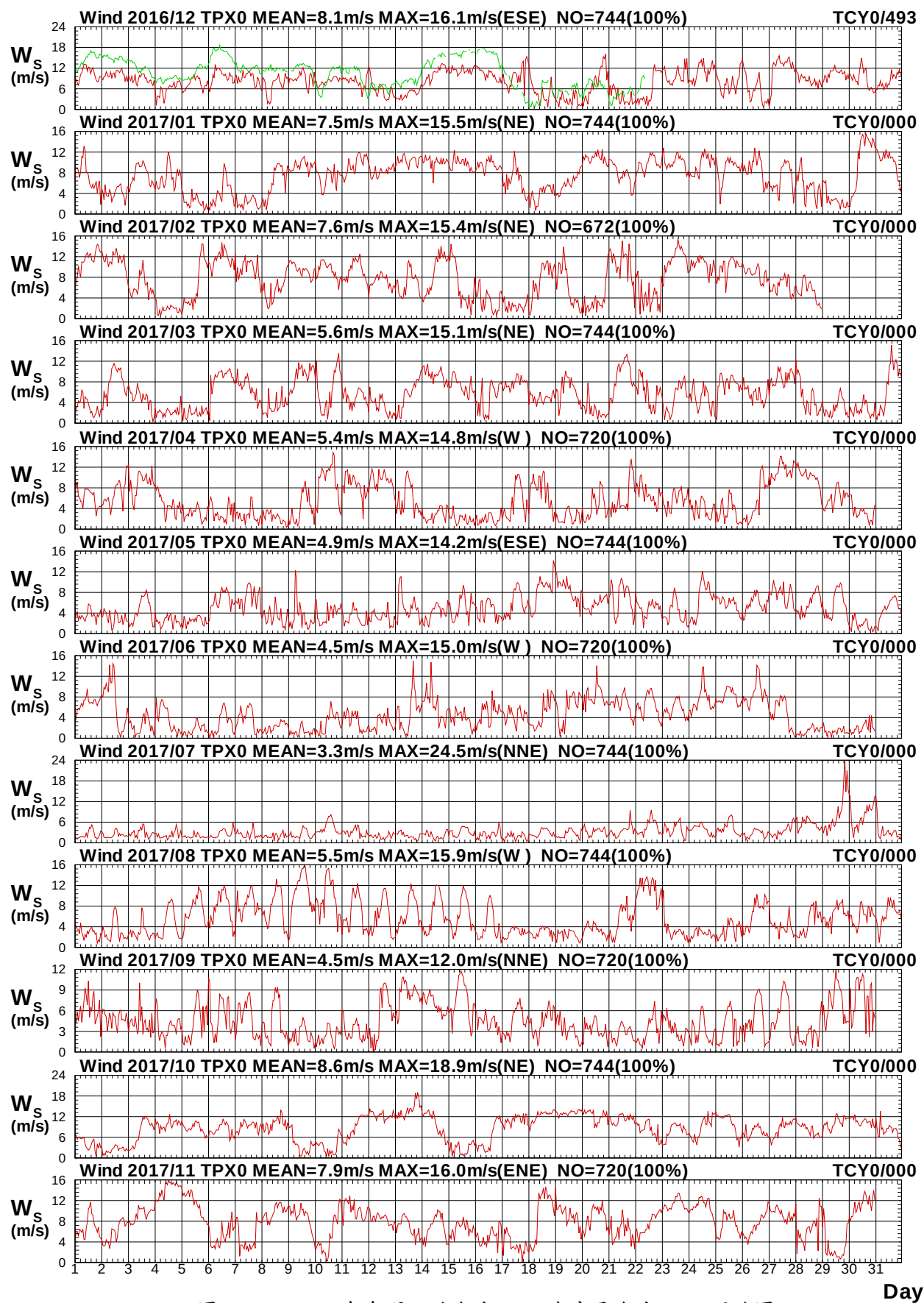


圖1.20a 2017年每月北苗海域 X 站與中雲海域 Y 站風速圖

W16CTPX0.1HA W16CTCY0.1H0 W171TPX0.1HA W171TCY0.1H0 W172TPX0.1HA W172TCY0.1H0
W173TPX0.1HA W173TCY0.1H0 W174TPX0.1HA W174TCY0.1H0 W175TPX0.1HA W175TCY0.1H0

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Wind Direction in Pei-Miao Seas of TPX0 at 2017

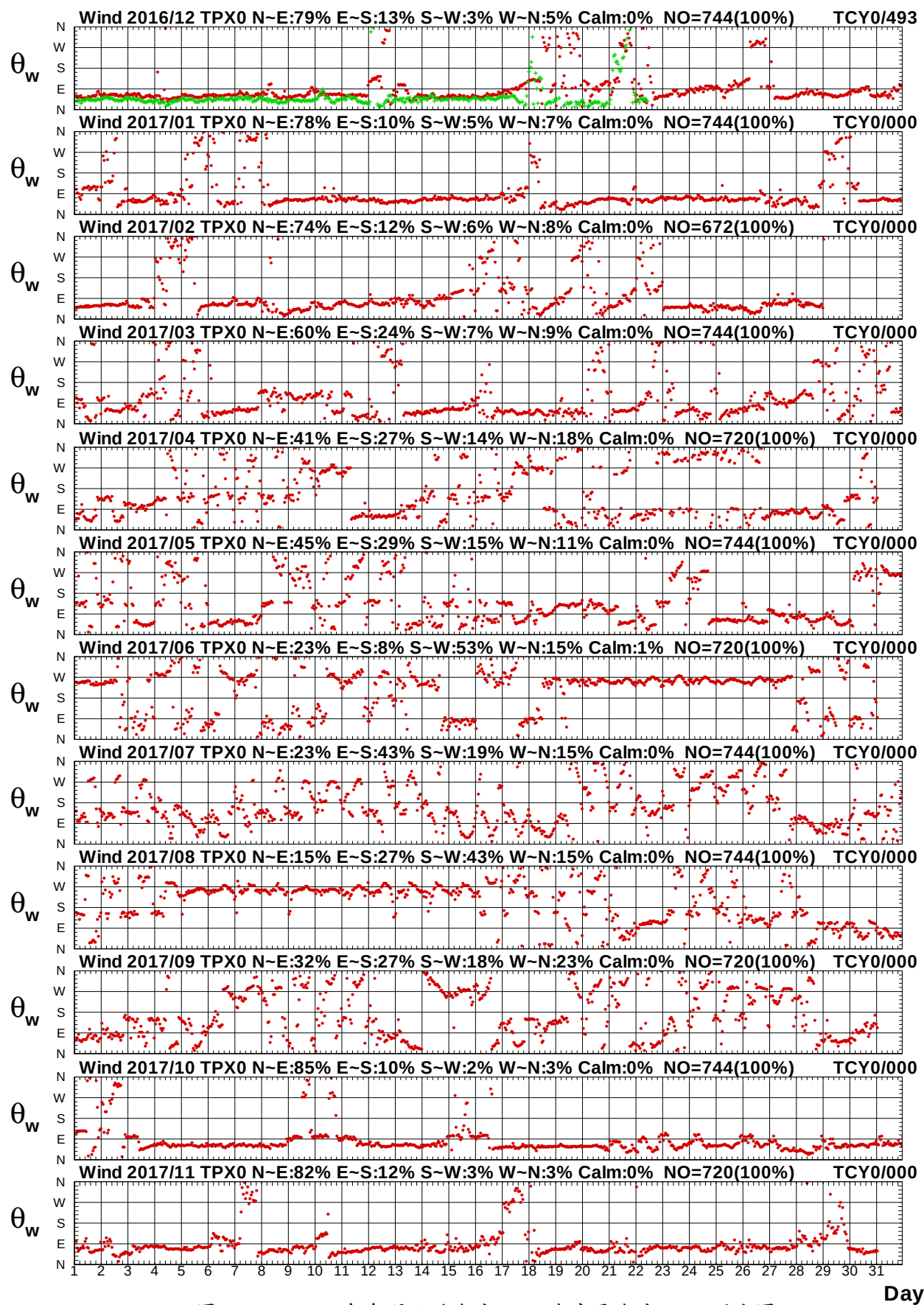


圖1.20b 2017年每月北苗海域 X 站與中雲海域 Y 站風向圖

W16CTPX0.1HA W16CTCY0.1H0 W171TPX0.1HA W171TCY0.1H0 W172TPX0.1HA W172TCY0.1H0
W173TPX0.1HA W173TCY0.1H0 W174TPX0.1HA W174TCY0.1H0 W175TPX0.1HA W175TCY0.1H0

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Wind Speed in Pei-Miao Seas of TPX0 at 2017

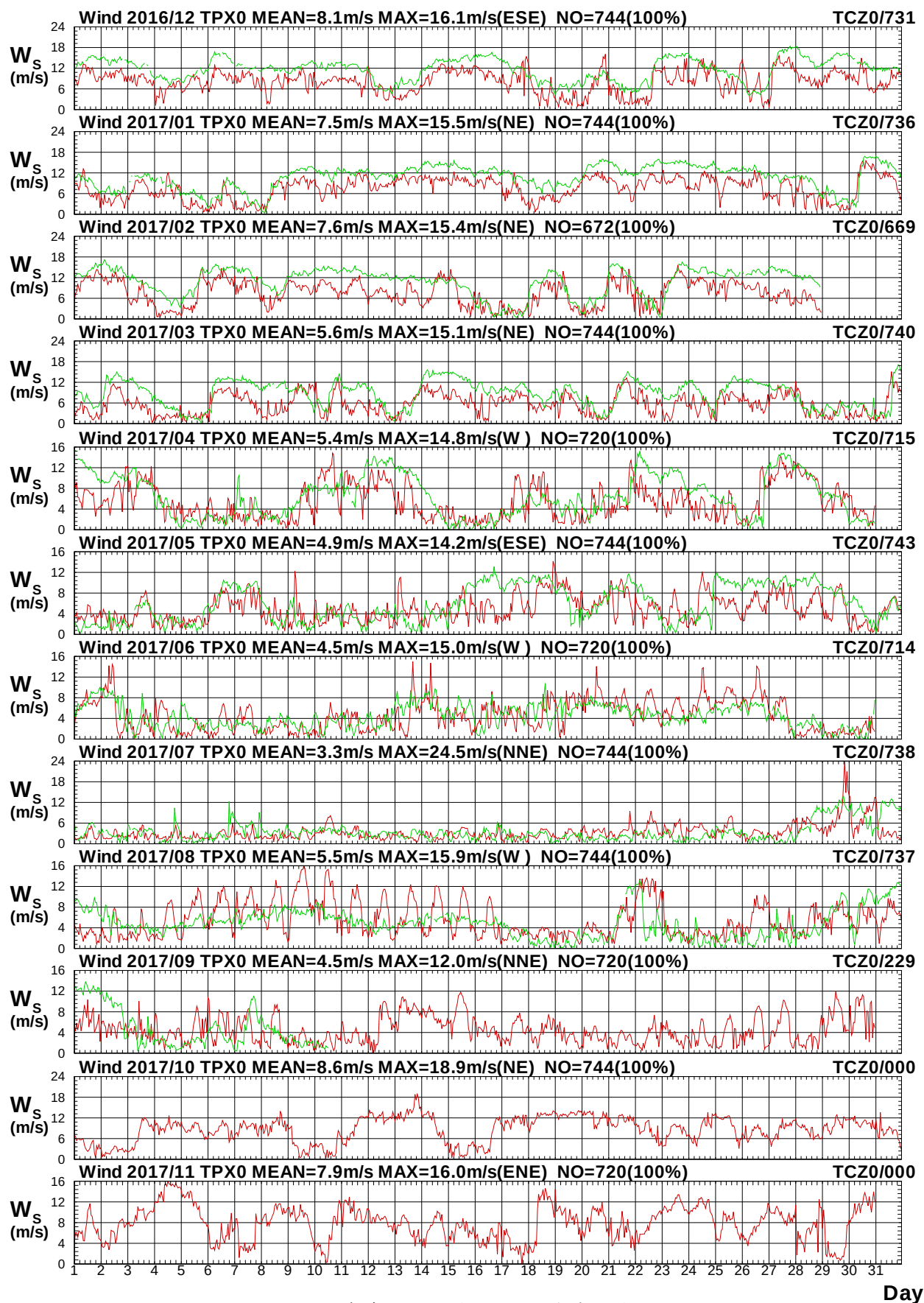


圖1.21a 2017年每月北苗海域 X 站與中雲海域 Z 站風速圖

W16CTPX0.1HA W16CTCZ0.1H0 W171TPX0.1HA W171TCZ0.1H0 W172TPX0.1HA W172TCZ0.1H0
W173TPX0.1HA W173TCZ0.1H0 W174TPX0.1HA W174TCZ0.1H0 W175TPX0.1HA W175TCZ0.1H0

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Wind Direction in Pei-Miao Seas of TPX0 at 2017

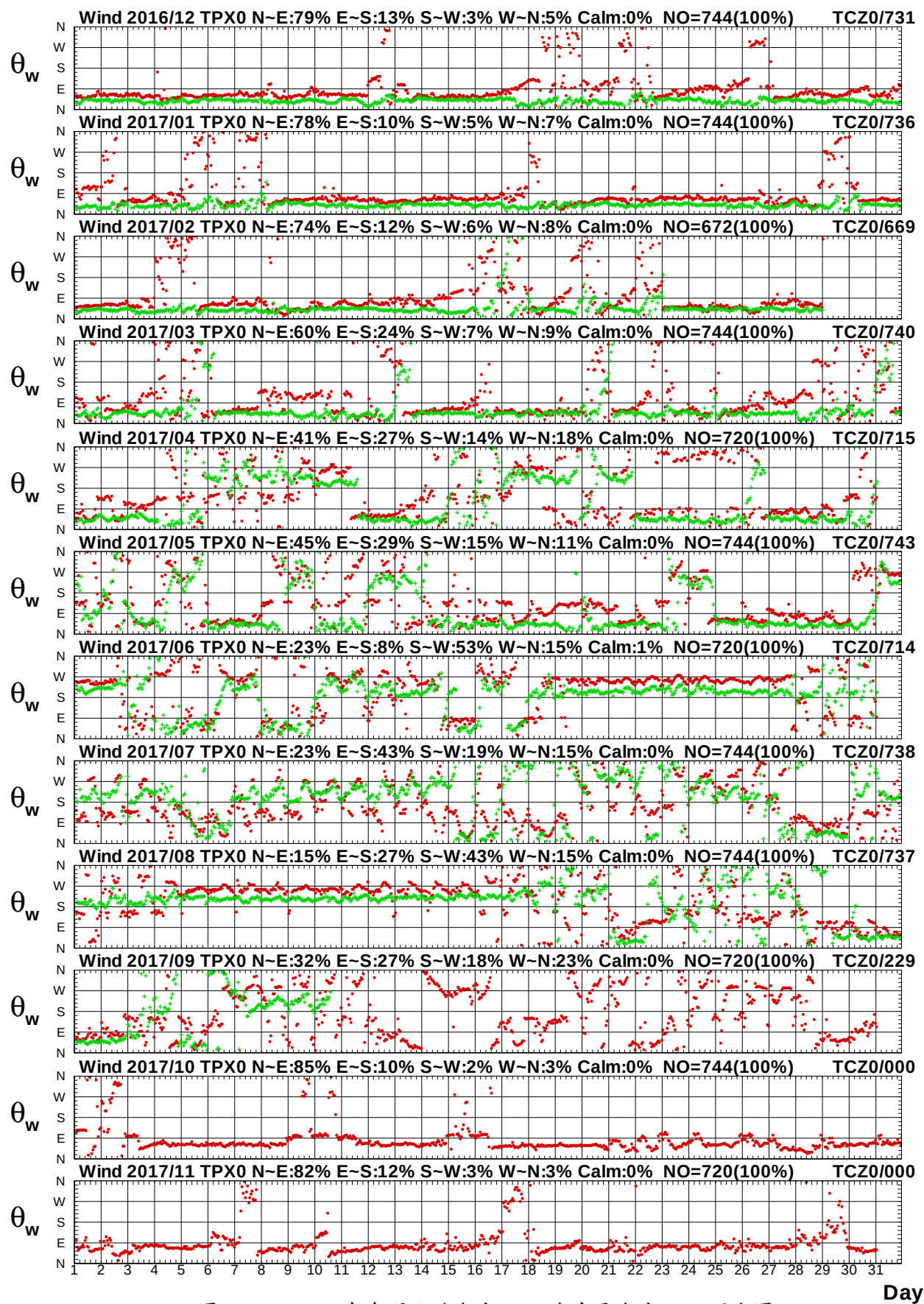


圖1.21b 2017年每月北苗海域 X 站與中雲海域 Z 站風向圖

W16CTPX0.1HA W16CTCZ0.1H0 W171TPX0.1HA W171TCZ0.1H0 W172TPX0.1HA W172TCZ0.1H0
W173TPX0.1HA W173TCZ0.1H0 W174TPX0.1HA W174TCZ0.1H0 W175TPX0.1HA W175TCZ0.1H0

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Wind Speed in Pei-Miao Seas of TPX0 at 2017

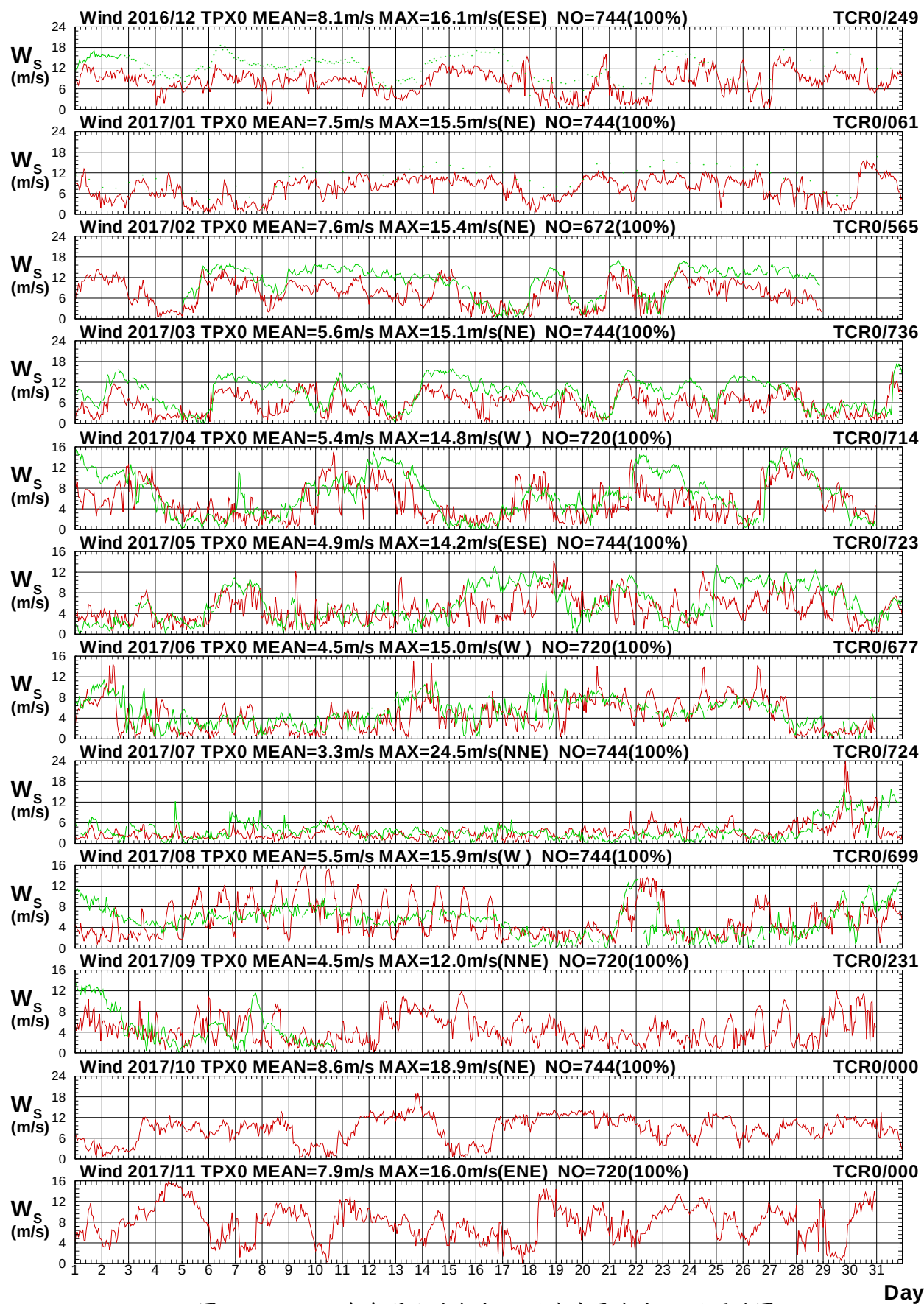


圖1.22a 2017年每月北苗海域 X 站與中雲海域 R 站風速圖

W16CTPX0.1HA W16CTCR0.1H0 W171TPX0.1HA W171TCR0.1H0 W172TPX0.1HA W172TCR0.1H0
W173TPX0.1HA W173TCR0.1H0 W174TPX0.1HA W174TCR0.1H0 W175TPX0.1HA W175TCR0.1H0

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Wind Direction in Pei-Miao Seas of TPX0 at 2017

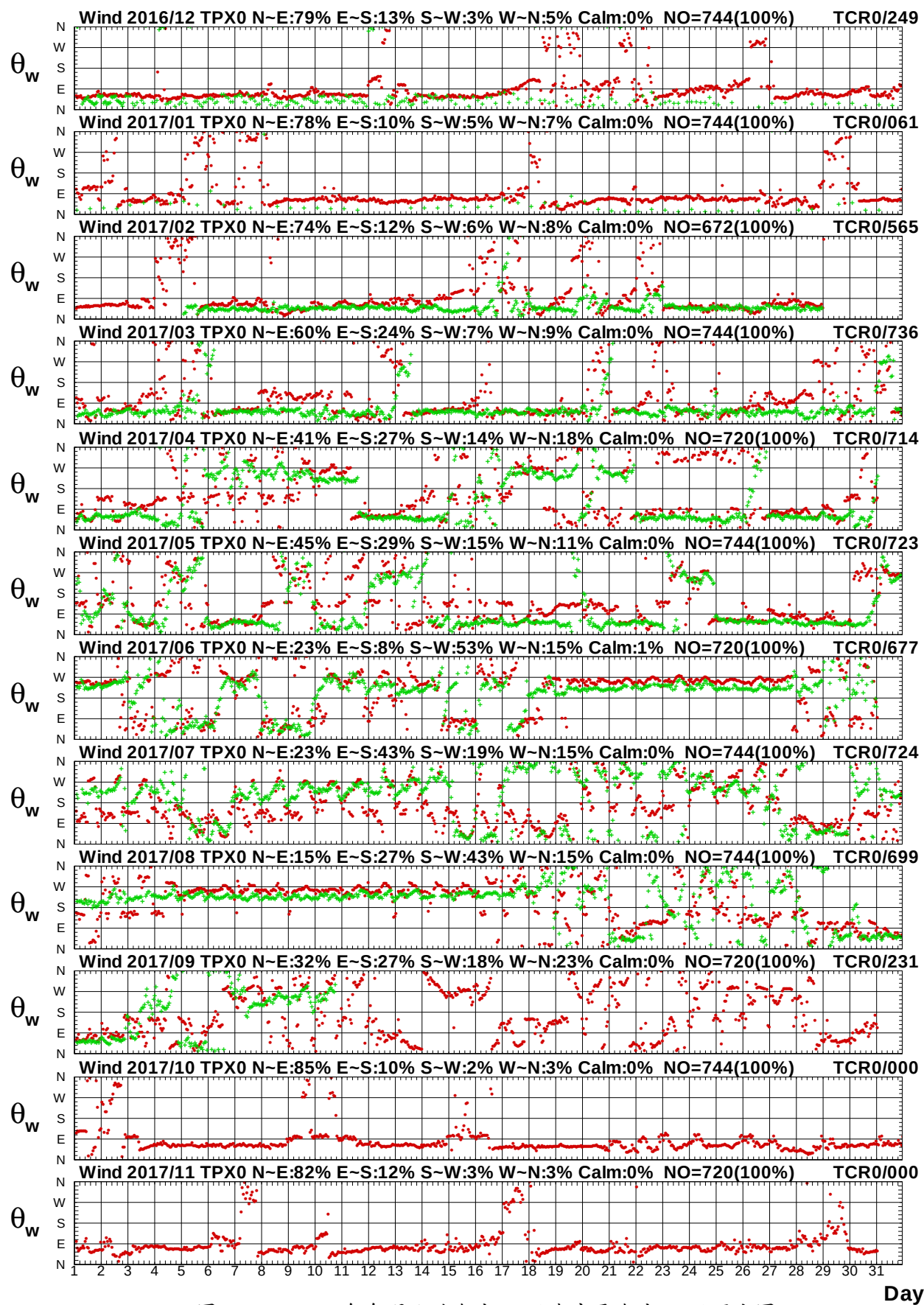


圖1.22b 2017年每月北苗海域 X 站與中雲海域 R 站風向圖

W16CTPX0.1HA W16CTCR0.1H0 W171TPX0.1HA W171TCR0.1H0 W172TPX0.1HA W172TCR0.1H0
W173TPX0.1HA W173TCR0.1H0 W174TPX0.1HA W174TCR0.1H0 W175TPX0.1HA W175TCR0.1H0

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Wind Speed in Pei-Miao Seas of TPX0 at 2017

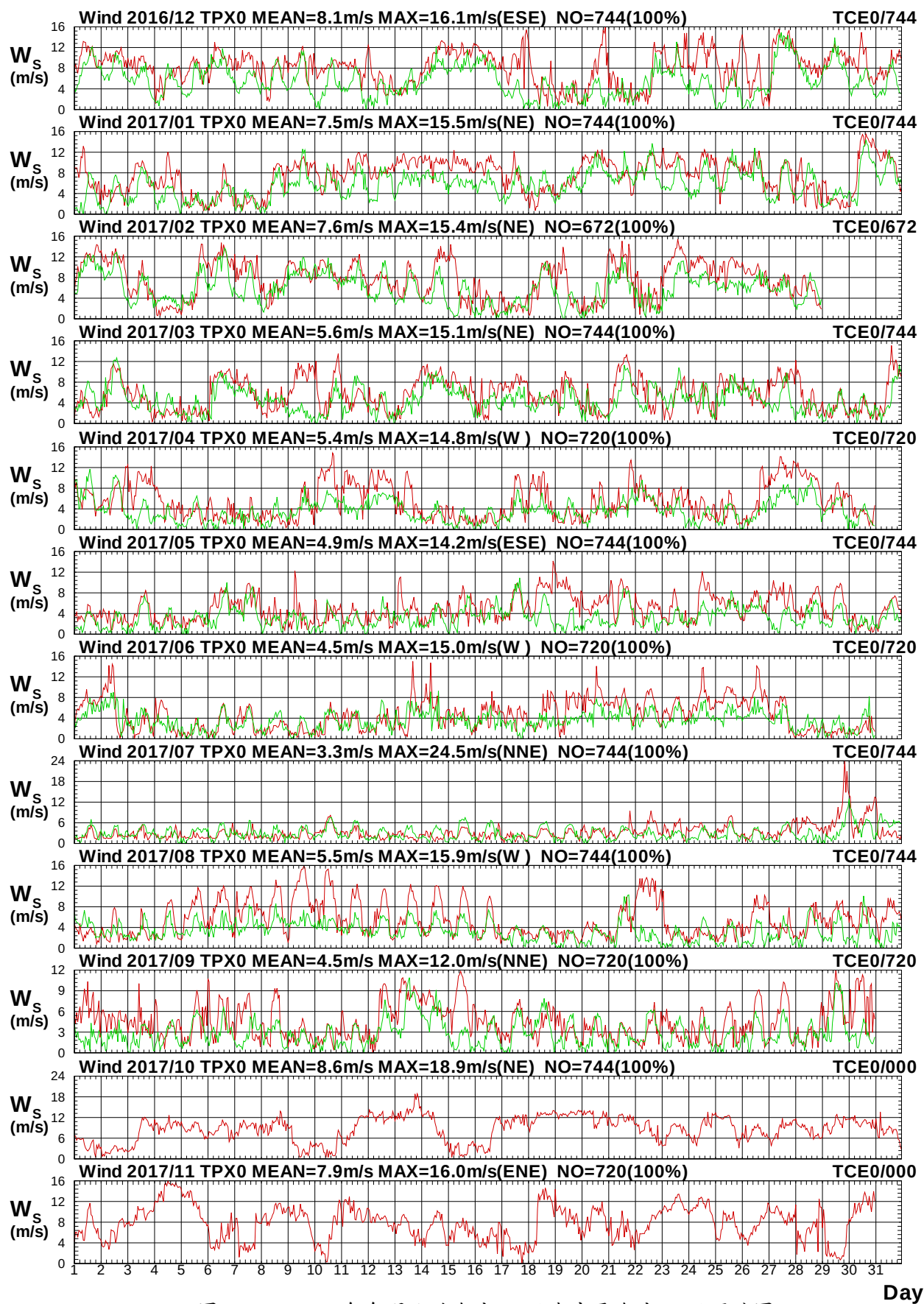


圖1.23a 2017年每月北苗海域 X 站與中雲海域 E 站風速圖

W16CTPX0.1HA W16CTCE0.1H0 W171TPX0.1HA W171TCE0.1H0 W172TPX0.1HA W172TCE0.1H0
W173TPX0.1HA W173TCE0.1H0 W174TPX0.1HA W174TCE0.1H0 W175TPX0.1HA W175TCE0.1H0

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Wind Direction in Pei-Miao Seas of TPX0 at 2017

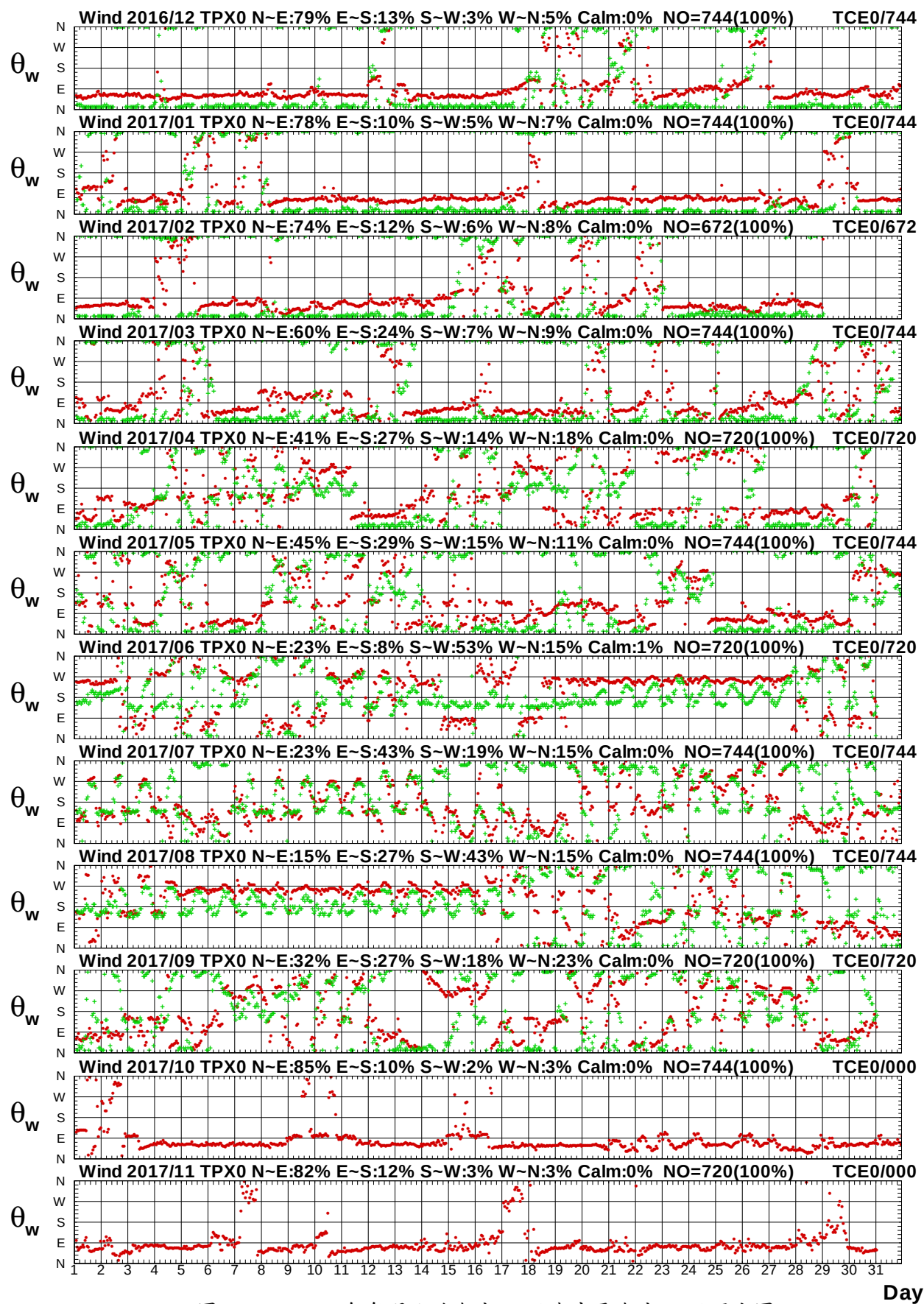


圖1.23b 2017年每月北苗海域 X 站與中雲海域 E 站風向圖

W16CTPX0.1HA W16CTCE0.1H0 W171TPX0.1HA W171TCE0.1H0 W172TPX0.1HA W172TCE0.1H0
W173TPX0.1HA W173TCE0.1H0 W174TPX0.1HA W174TCE0.1H0 W175TPX0.1HA W175TCE0.1H0

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Wind Speed in Pei-Miao Seas of TPX0 at 2017

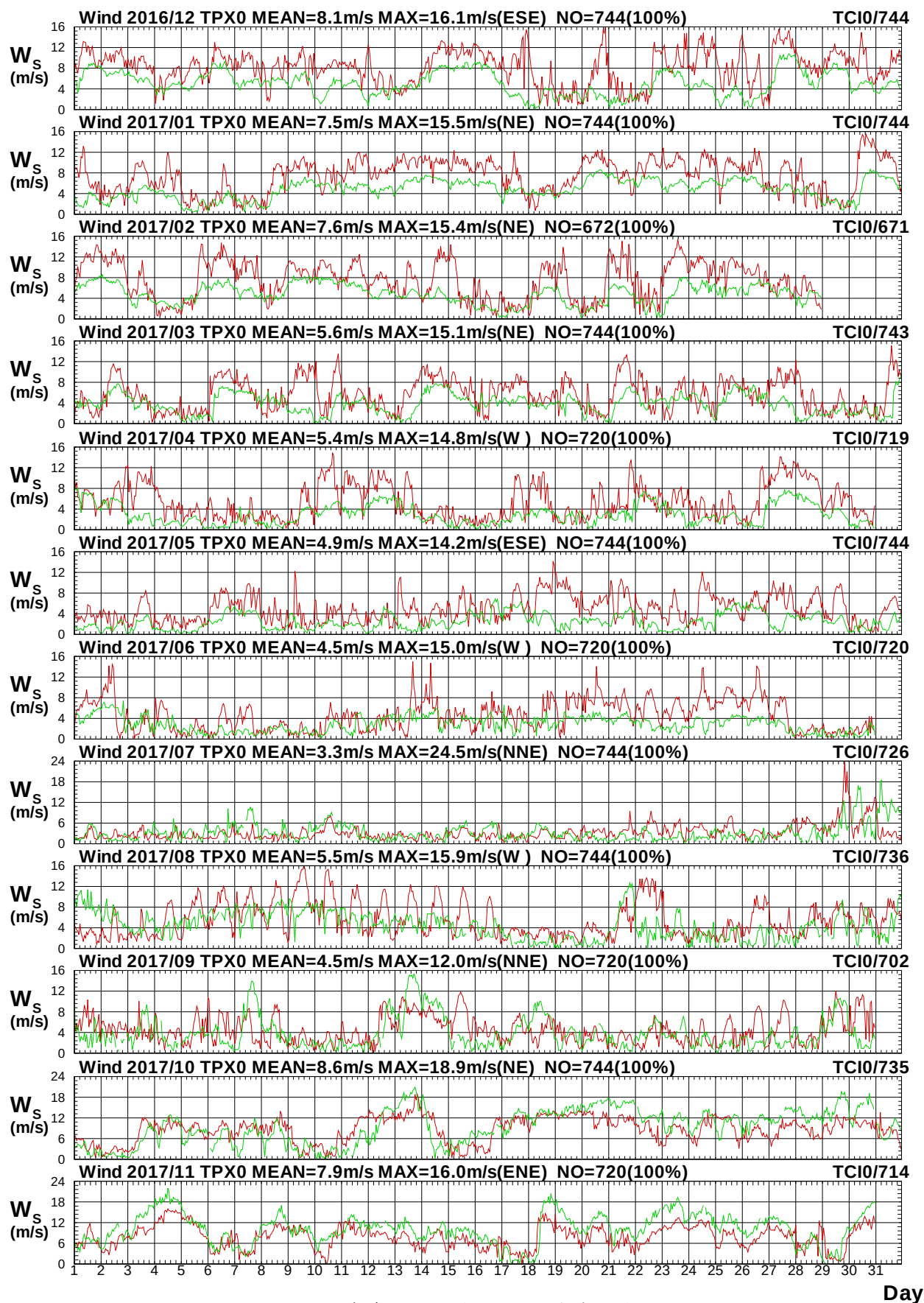


圖1.24a 2017年每月北苗海域 X 站與中雲海域 I 站風速圖

W16CTPX0.1HA W16CTCI0.1H0 W171TPX0.1HA W171TCI0.1H0 W172TPX0.1HA W172TCI0.1H0
W173TPX0.1HA W173TCI0.1H0 W174TPX0.1HA W174TCI0.1H0 W175TPX0.1HA W175TCI0.1H0

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Wind Direction in Pei-Miao Seas of TPX0 at 2017

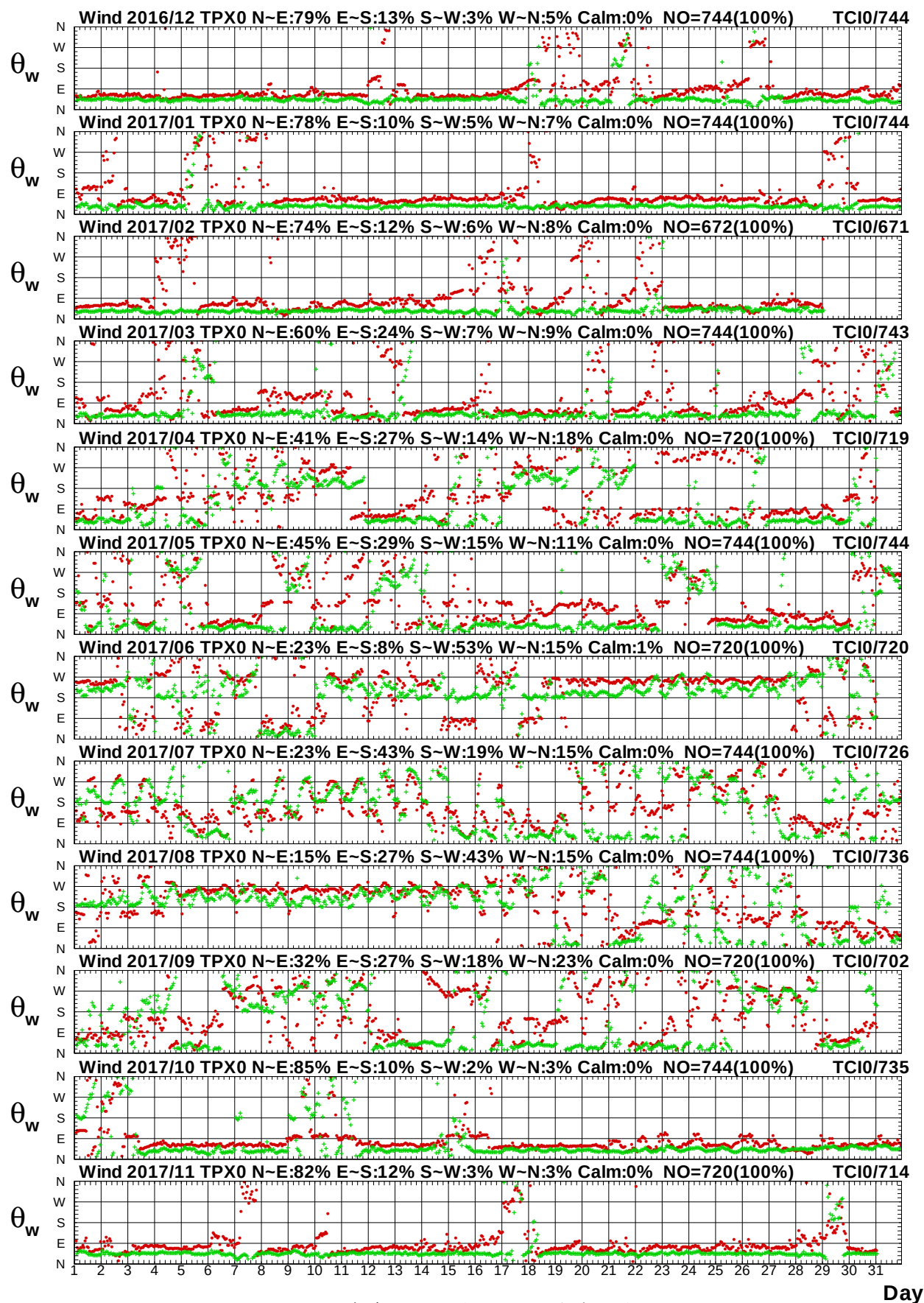


圖1.24b 2017年每月北苗海域 X 站與中雲海域 I 站風向圖

W16CTPX0.1HA W16CTCI0.1H0 W171TPX0.1HA W171TCI0.1H0 W172TPX0.1HA W172TCI0.1H0
W173TPX0.1HA W173TCI0.1H0 W174TPX0.1HA W174TCI0.1H0 W175TPX0.1HA W175TCI0.1H0

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Wind Speed in Pei-Miao Seas of TPY0 at 2017

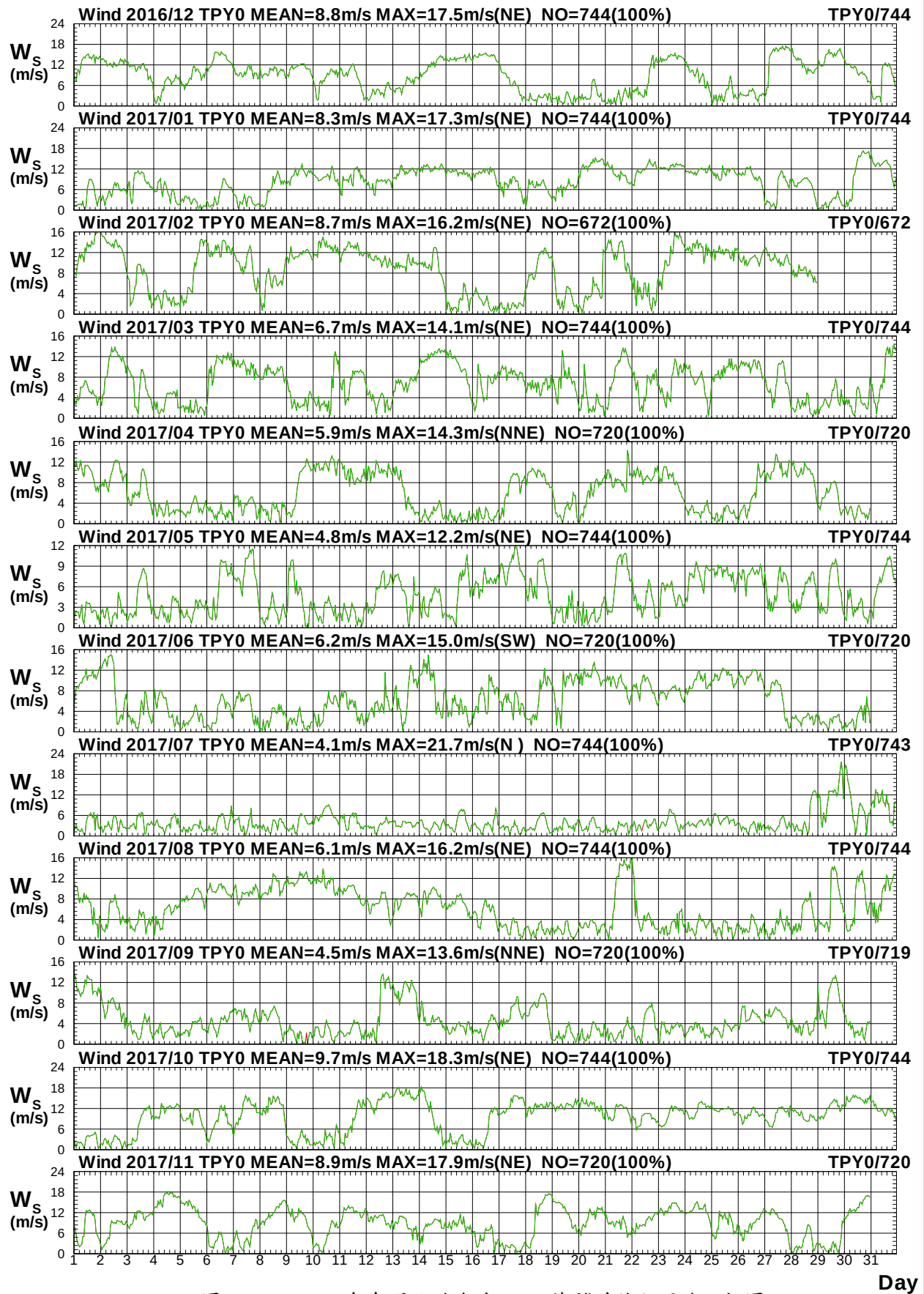


圖1.25a 2017年每月北苗海域 Y 站修補前後之風速比較圖

W16CTPY0.1HA W16CTPY0.1H0 W171TPY0.1HA W171TPY0.1H0 W172TPY0.1HA W172TPY0.1H0
W173TPY0.1HA W173TPY0.1H0 W174TPY0.1HA W174TPY0.1H0 W175TPY0.1HA W175TPY0.1H0

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Wind Direction in Pei-Miao Seas of TPY0 at 2017

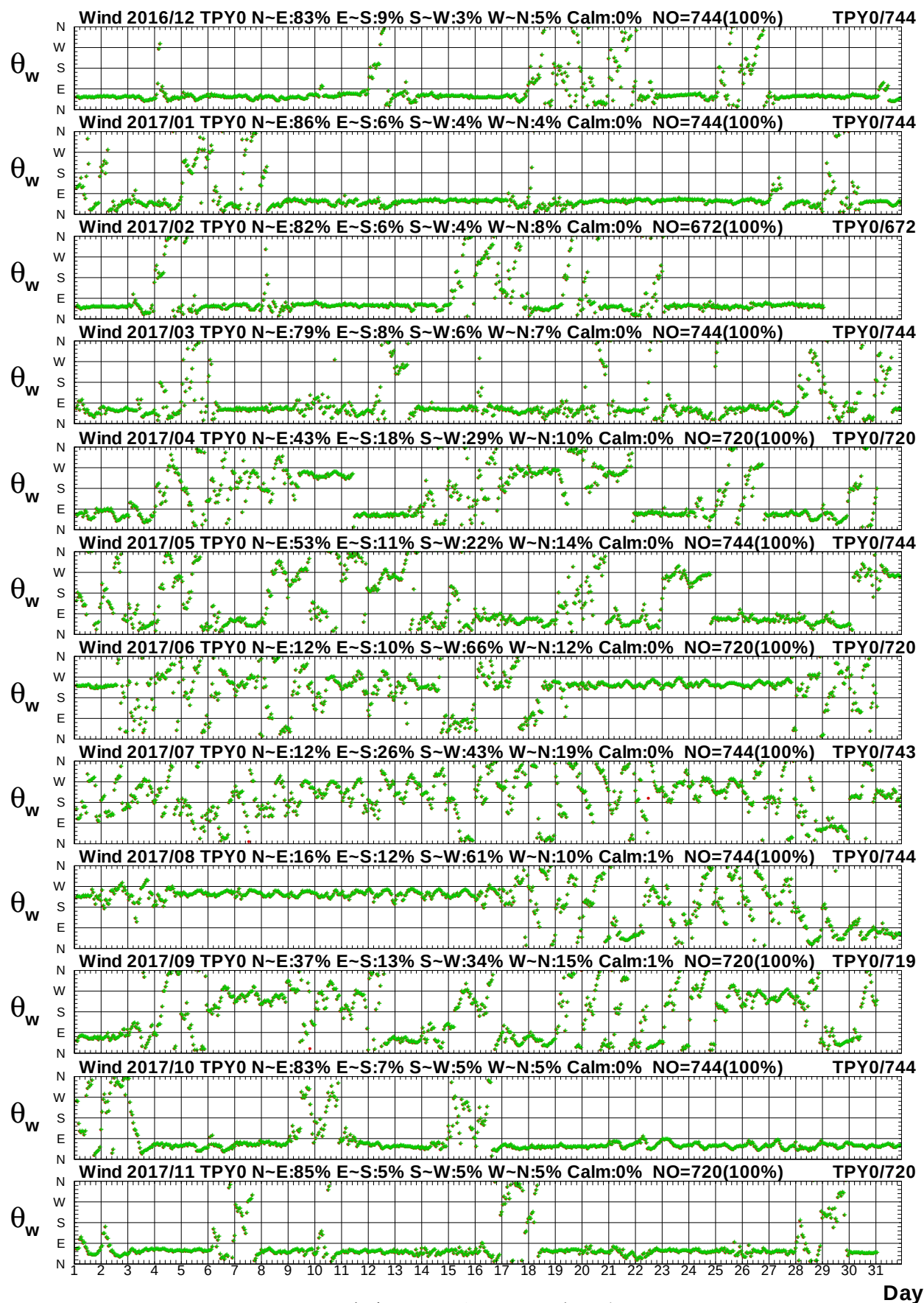


圖1.25b 2017年每月北苗海域 Y 站修補前後之風向比較圖

W16CTPY0.1HA W16CTPY0.1H0 W171TPY0.1HA W171TPY0.1H0 W172TPY0.1HA W172TPY0.1H0
W173TPY0.1HA W173TPY0.1H0 W174TPY0.1HA W174TPY0.1H0 W175TPY0.1HA W175TPY0.1H0

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Wind Speed in Pei-Miao Seas of TPY0 at 2017

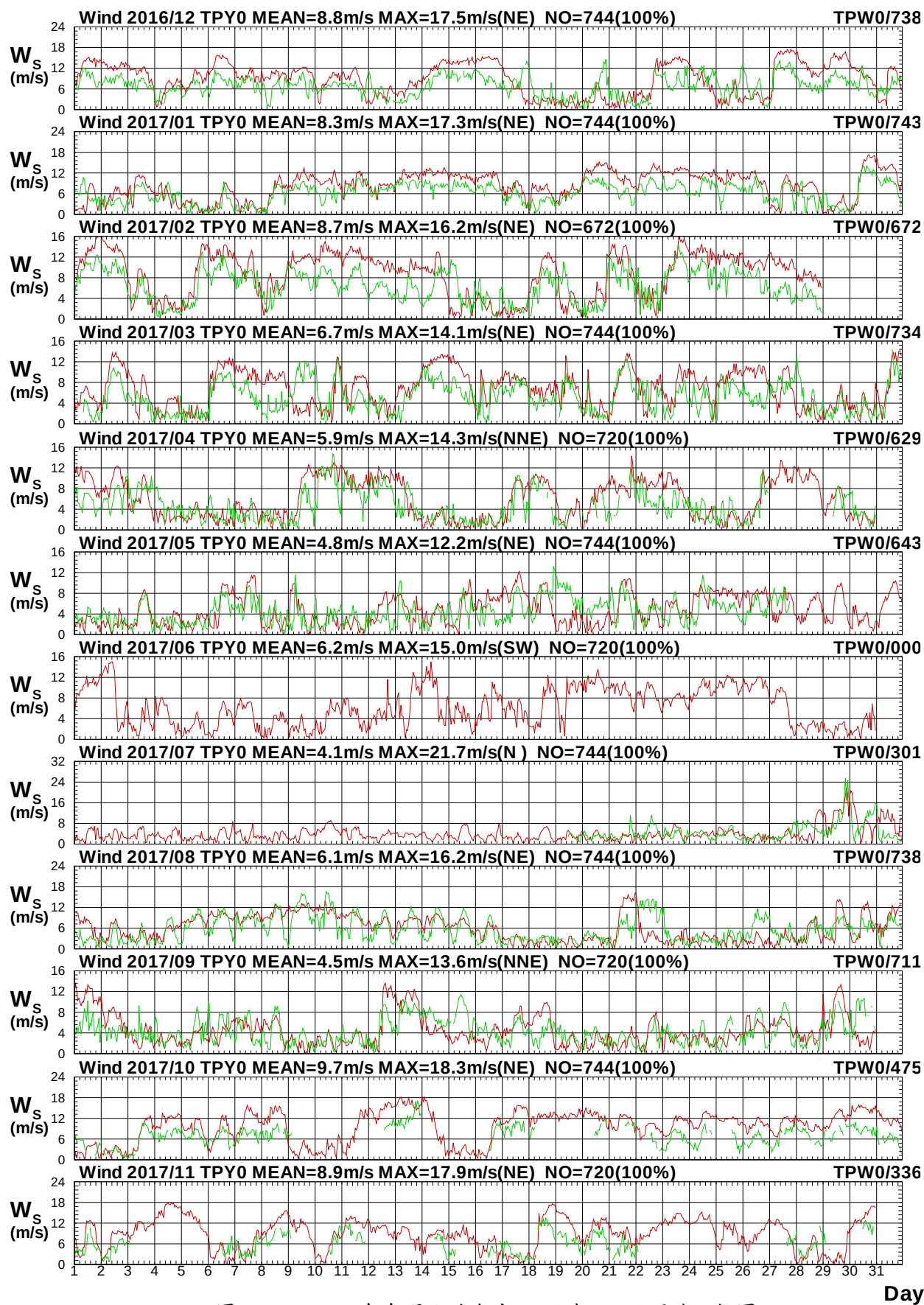


圖1.26a 2017年每月北苗海域 Y 站與 W 站風速比較圖

W16CTPY0.1HA W16CTPW0.1H0 W171TPY0.1HA W171TPW0.1H0 W172TPY0.1HA W172TPW0.1H0
W173TPY0.1HA W173TPW0.1H0 W174TPY0.1HA W174TPW0.1H0 W175TPY0.1HA W175TPW0.1H0

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Wind Direction in Pei-Miao Seas of TPY0 at 2017

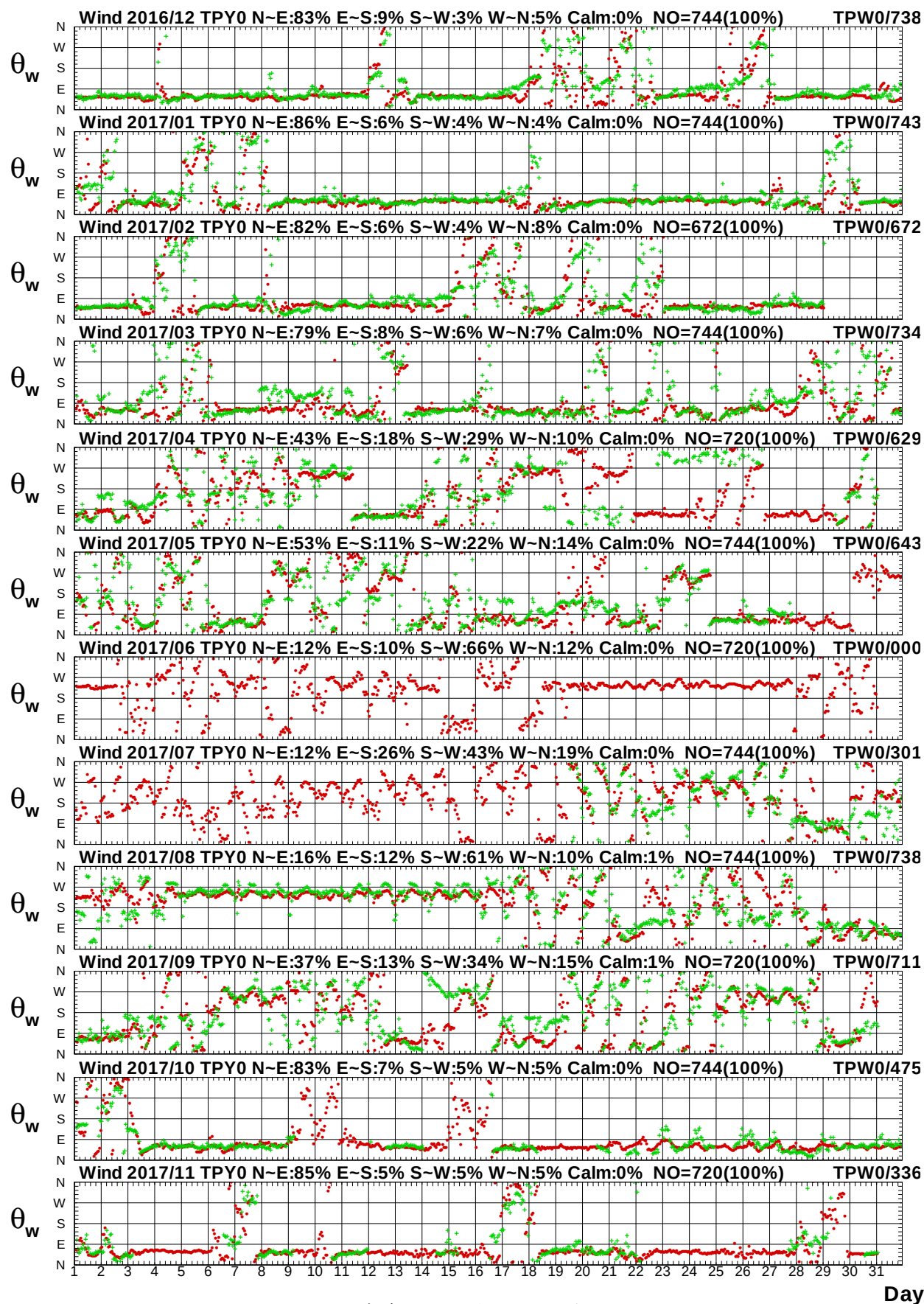


圖1.26b 2017年每月北苗海域 Y 站與 W 站風向比較圖

W16CTPY0.1HA W16CTPW0.1H0 W171TPY0.1HA W171TPW0.1H0 W172TPY0.1HA W172TPW0.1H0

W173TPY0.1HA W173TPW0.1H0 W174TPY0.1HA W174TPW0.1H0 W175TPY0.1HA W175TPW0.1H0

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Wind Speed in Pei-Miao Seas of TPY0 at 2017

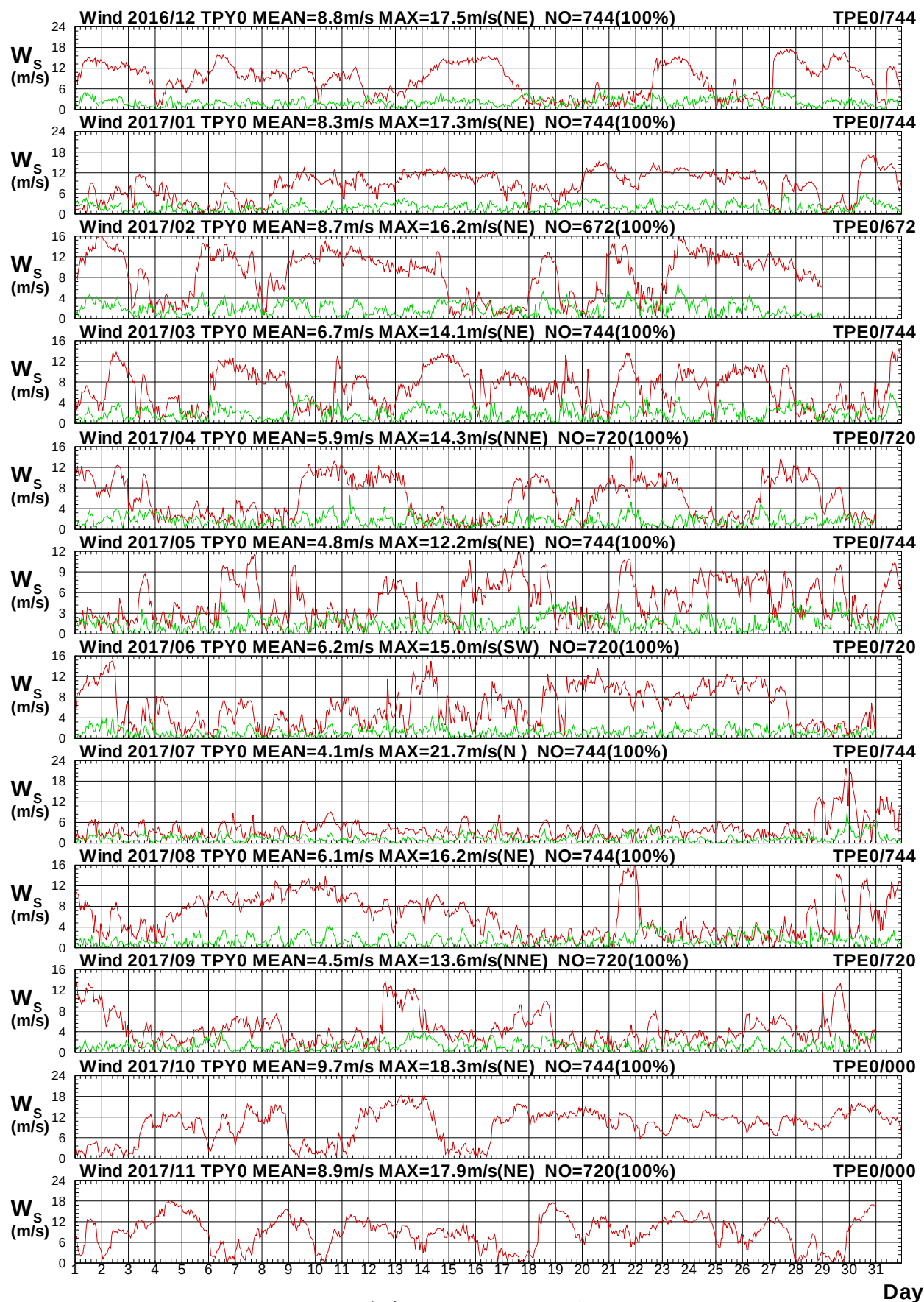


圖1.27a 2017年每月北苗海域 Y 站與 E 站風速比較圖

W16CTPY0.1HA W16CTPE0.1H0 W171TPY0.1HA W171TPE0.1H0 W172TPY0.1HA W172TPE0.1H0
W173TPY0.1HA W173TPE0.1H0 W174TPY0.1HA W174TPE0.1H0 W175TPY0.1HA W175TPE0.1H0

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Wind Direction in Pei-Miao Seas of TPY0 at 2017

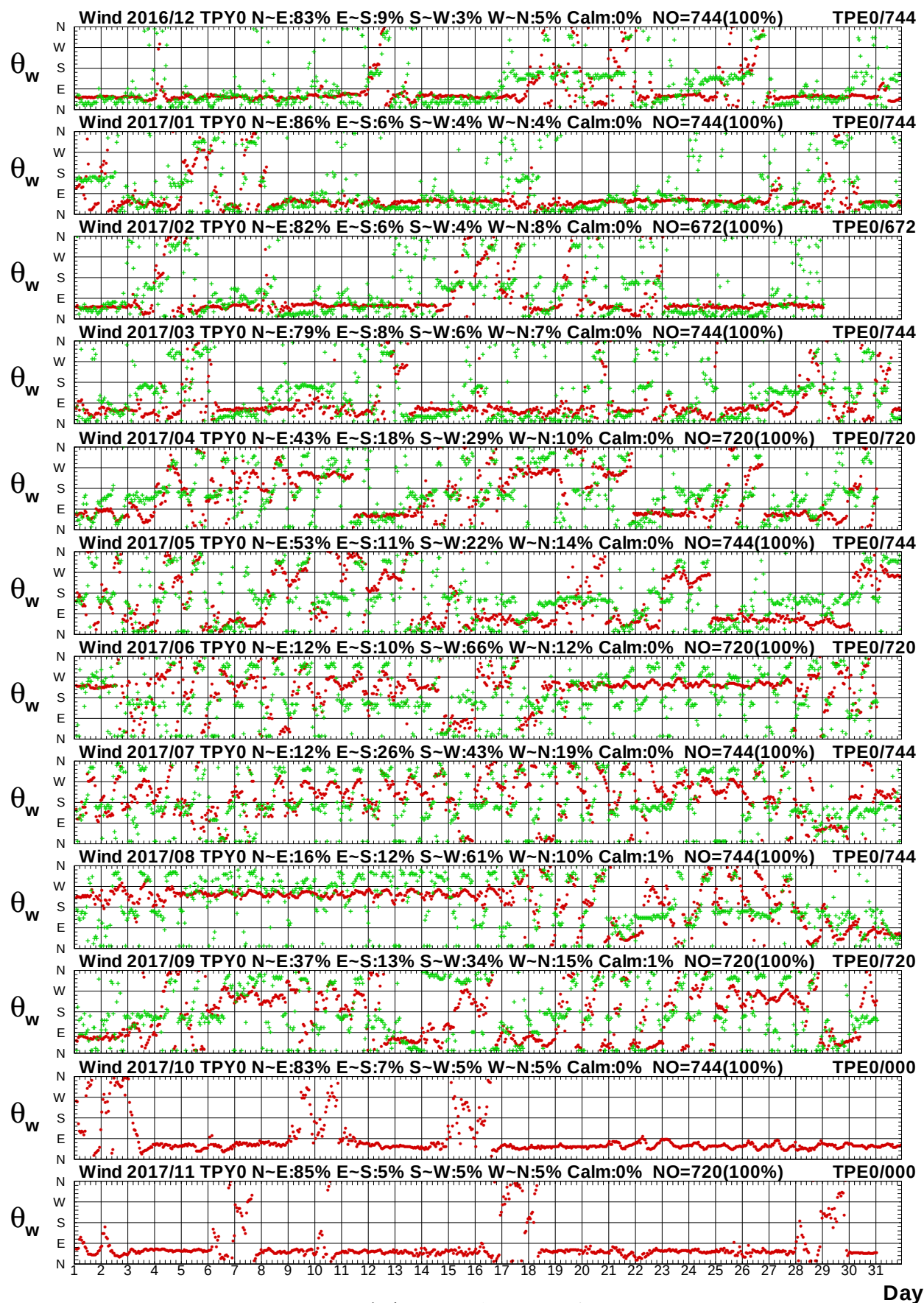


圖1.27b 2017年每月北苗海域 Y 站與 E 站風向比較圖

W16CTPY0.1HA W16CTPE0.1H0 W171TPY0.1HA W171TPE0.1H0 W172TPY0.1HA W172TPE0.1H0
W173TPY0.1HA W173TPE0.1H0 W174TPY0.1HA W174TPE0.1H0 W175TPY0.1HA W175TPE0.1H0

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Wind Speed in Pei-Miao Seas of TPY0 at 2017

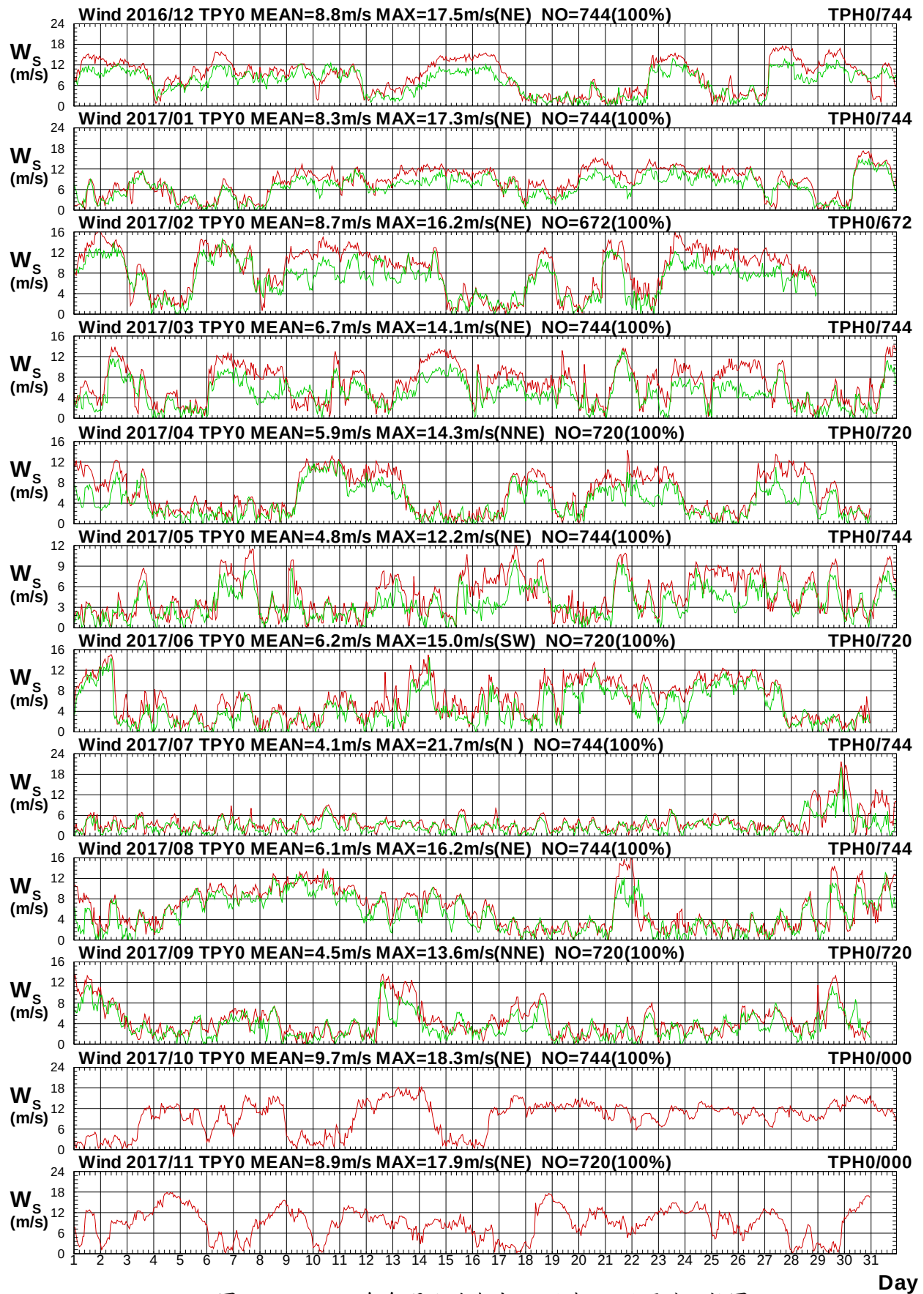


圖1.28a 2017年每月北苗海域 Y 站與 H 站風速比較圖

W16CTPY0.1HA W16CTPH0.1H0 W171TPY0.1HA W171TPH0.1H0 W172TPY0.1HA W172TPH0.1H0
W173TPY0.1HA W173TPH0.1H0 W174TPY0.1HA W174TPH0.1H0 W175TPY0.1HA W175TPH0.1H0

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Wind Direction in Pei-Miao Seas of TPY0 at 2017

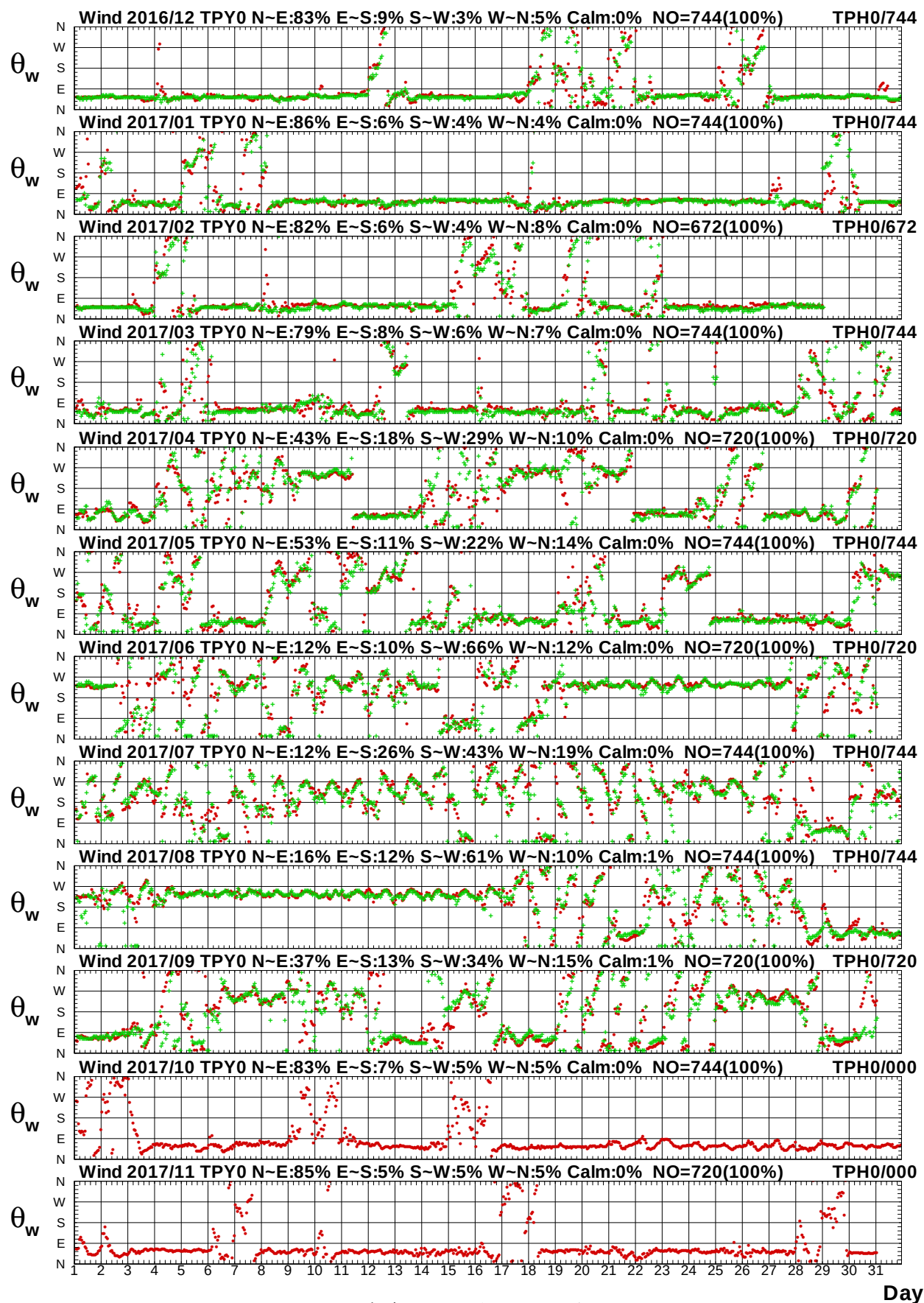


圖1.28b 2017年每月北苗海域 Y 站與 H 站風向比較圖

W16CTPY0.1HA W16CTPH0.1H0 W171TPY0.1HA W171TPH0.1H0 W172TPY0.1HA W172TPH0.1H0
W173TPY0.1HA W173TPH0.1H0 W174TPY0.1HA W174TPH0.1H0 W175TPY0.1HA W175TPH0.1H0

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Wind Speed in Pei-Miao Seas of TPY0 at 2017

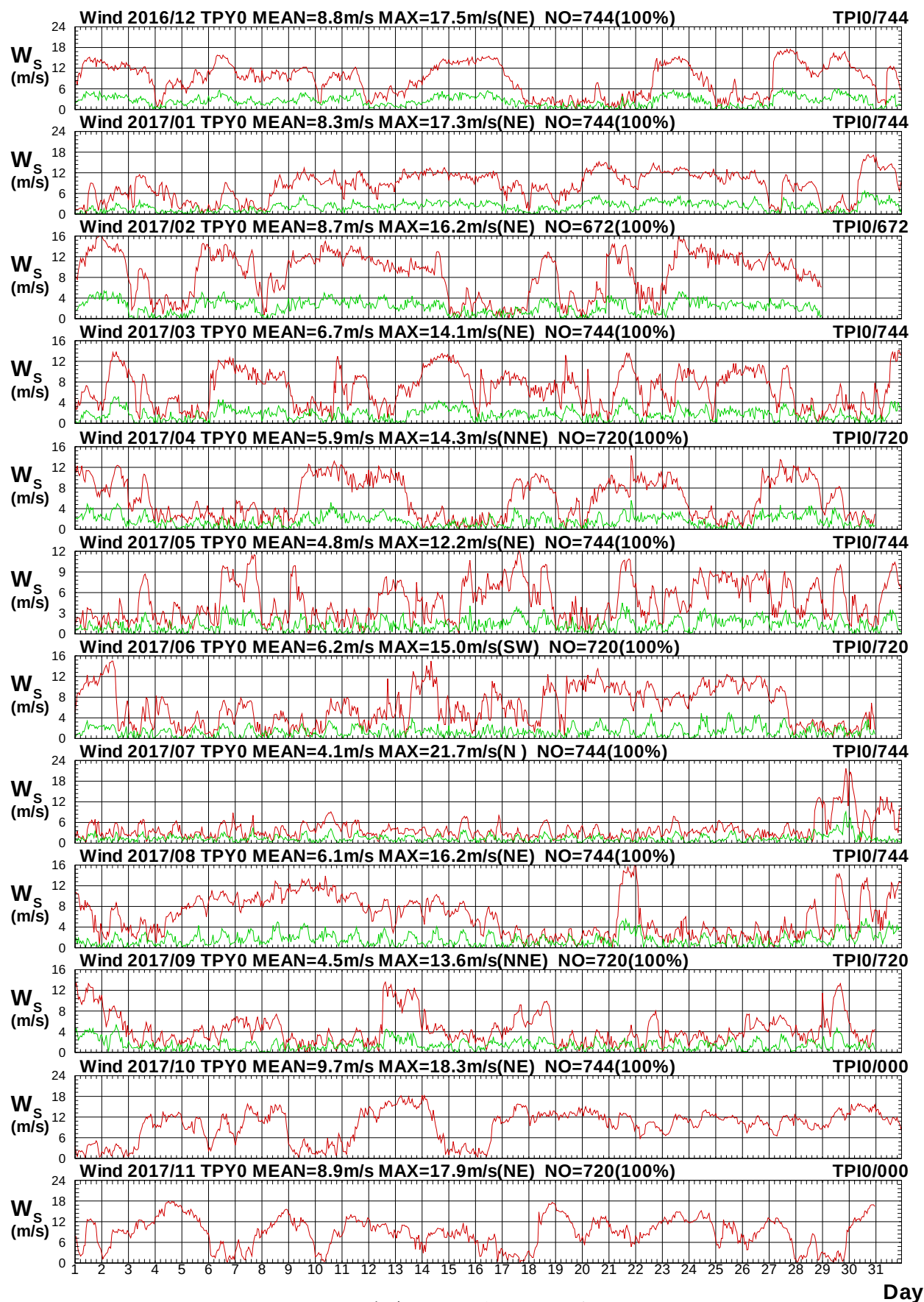


圖1.29a 2017年每月北苗海域 Y 站與 I 站風速比較圖

W16CTPY0.1HA W16CTPI0.1H0 W171TPY0.1HA W171TPI0.1H0 W172TPY0.1HA W172TPI0.1H0
W173TPY0.1HA W173TPI0.1H0 W174TPY0.1HA W174TPI0.1H0 W175TPY0.1HA W175TPI0.1H0

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Wind Direction in Pei-Miao Seas of TPY0 at 2017

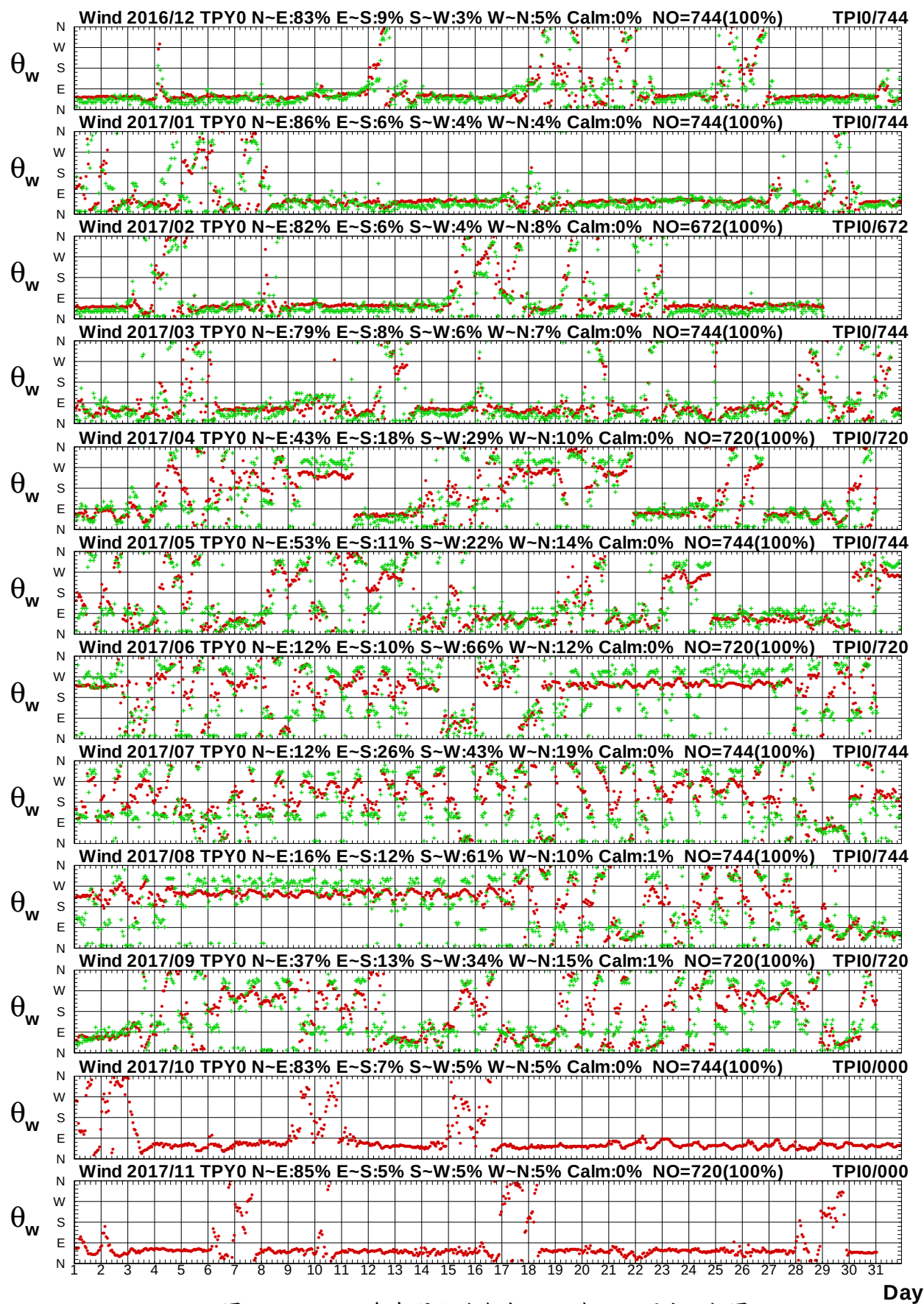


圖1.29b 2017年每月北苗海域 Y 站與 I 站風向比較圖

W16CTPY0.1HA W16CTPI0.1H0 W171TPY0.1HA W171TPI0.1H0 W172TPY0.1HA W172TPI0.1H0
W173TPY0.1HA W173TPI0.1H0 W174TPY0.1HA W174TPI0.1H0 W175TPY0.1HA W175TPI0.1H0

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Wind Speed in Pei-Miao Seas of TPY0 at 2017

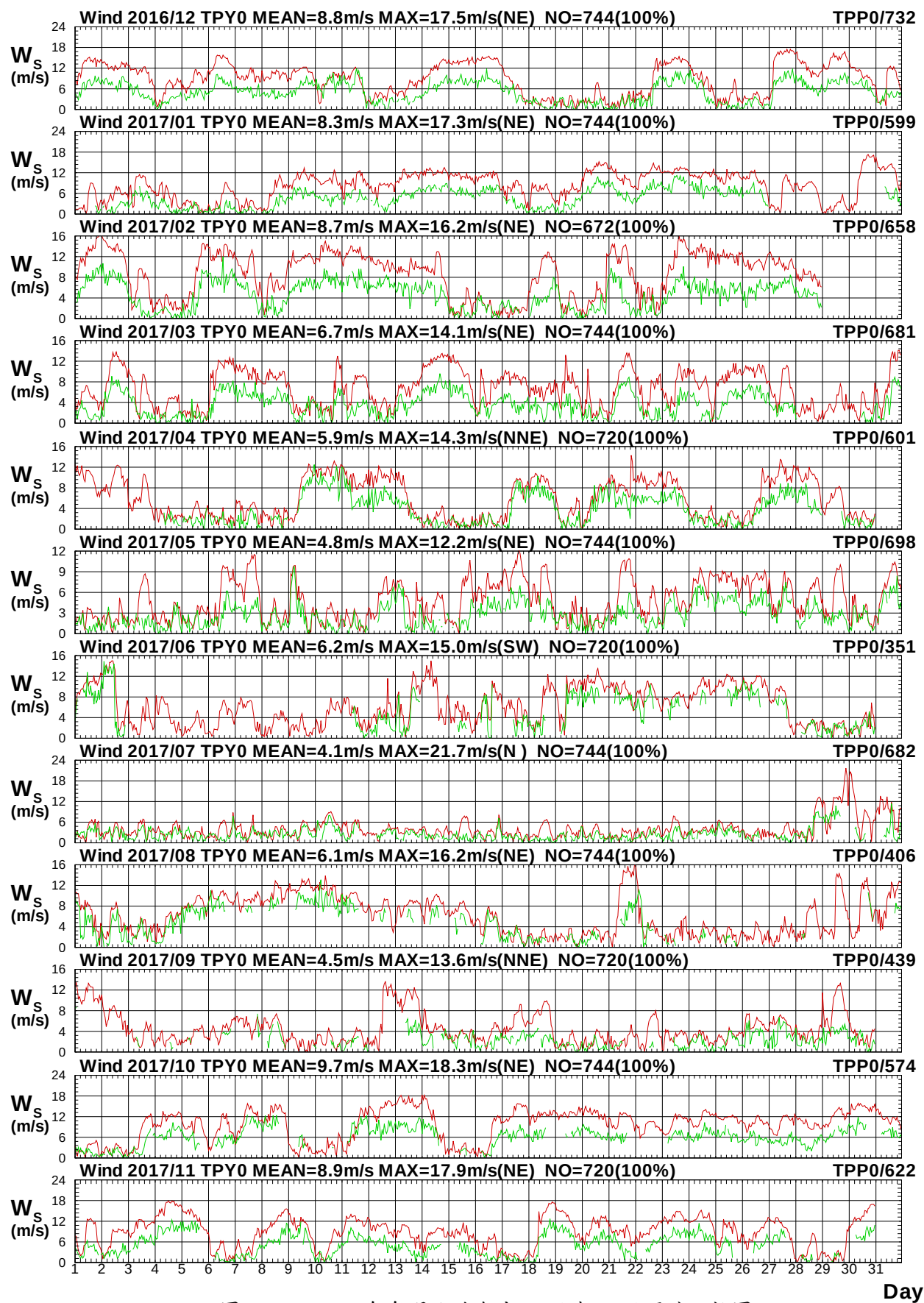


圖1.30a 2017年每月北苗海域 Y 站與 P 站風速比較圖

W16CTPY0.1HA W16CTPP0.1H0 W171TPY0.1HA W171TPP0.1H0 W172TPY0.1HA W172TPP0.1H0
W173TPY0.1HA W173TPP0.1H0 W174TPY0.1HA W174TPP0.1H0 W175TPY0.1HA W175TPP0.1H0

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Wind Direction in Pei-Miao Seas of TPY0 at 2017

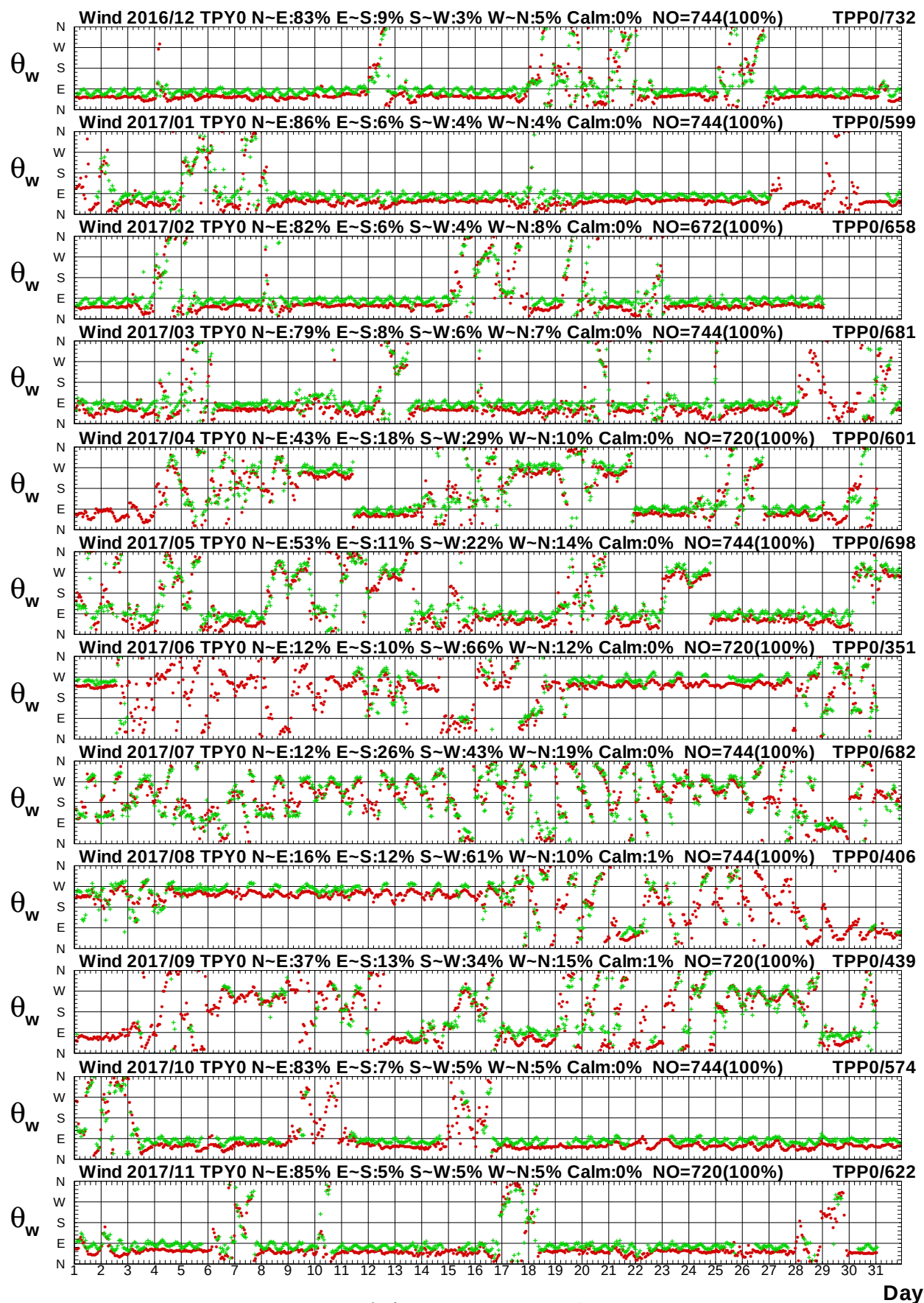


圖1.30b 2017年每月北苗海域 Y 站與 P 站風向比較圖

W16CTPY0.1HA W16CTPP0.1H0 W171TPY0.1HA W171TPP0.1H0 W172TPY0.1HA W172TPP0.1H0
W173TPY0.1HA W173TPP0.1H0 W174TPY0.1HA W174TPP0.1H0 W175TPY0.1HA W175TPP0.1H0

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Wind Speed in Pei-Miao Seas of TPY0 at 2017

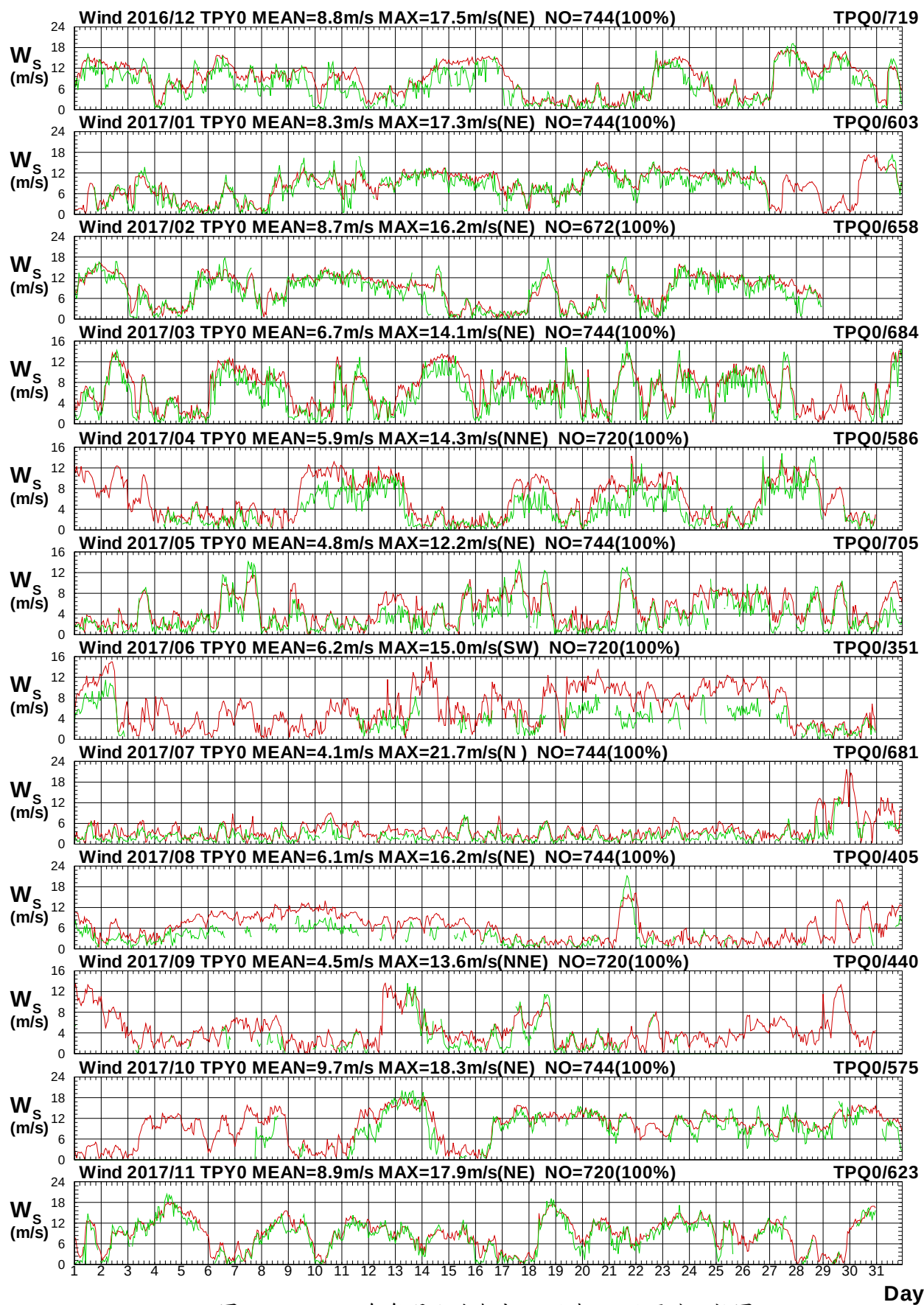


圖1.31a 2017年每月北苗海域 Y 站與 Q 站風速比較圖

W16CTPY0.1HA W16CTPQ0.1H0 W171TPY0.1HA W171TPQ0.1H0 W172TPY0.1HA W172TPQ0.1H0
W173TPY0.1HA W173TPQ0.1H0 W174TPY0.1HA W174TPQ0.1H0 W175TPY0.1HA W175TPQ0.1H0

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Wind Direction in Pei-Miao Seas of TPY0 at 2017

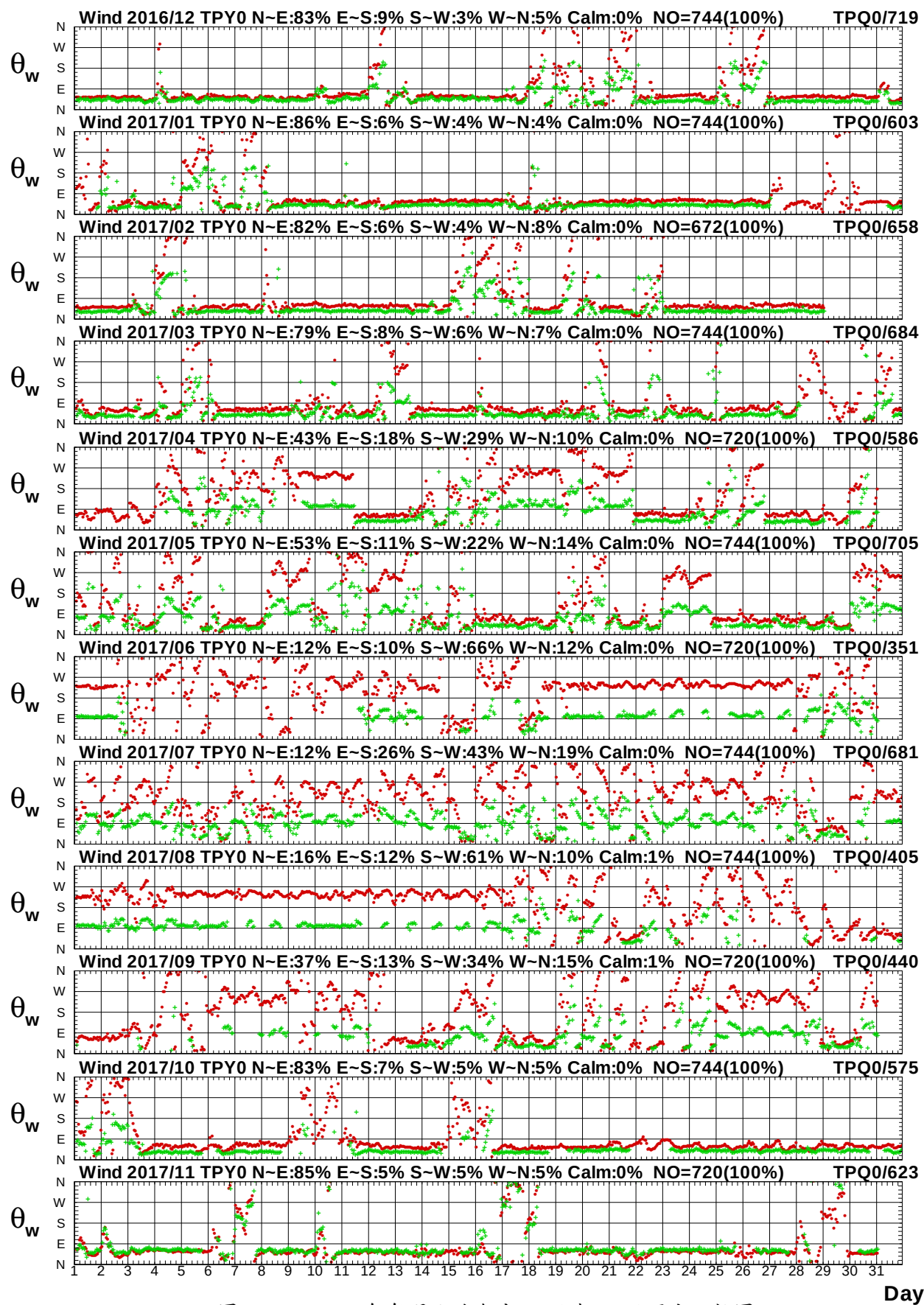


圖1.31b 2017年每月北苗海域 Y 站與 Q 站風向比較圖

W16CTPY0.1HA W16CTPQ0.1H0 W171TPY0.1HA W171TPQ0.1H0 W172TPY0.1HA W172TPQ0.1H0
W173TPY0.1HA W173TPQ0.1H0 W174TPY0.1HA W174TPQ0.1H0 W175TPY0.1HA W175TPQ0.1H0

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Wind Speed in Pei-Miao Seas of TPY0 at 2017

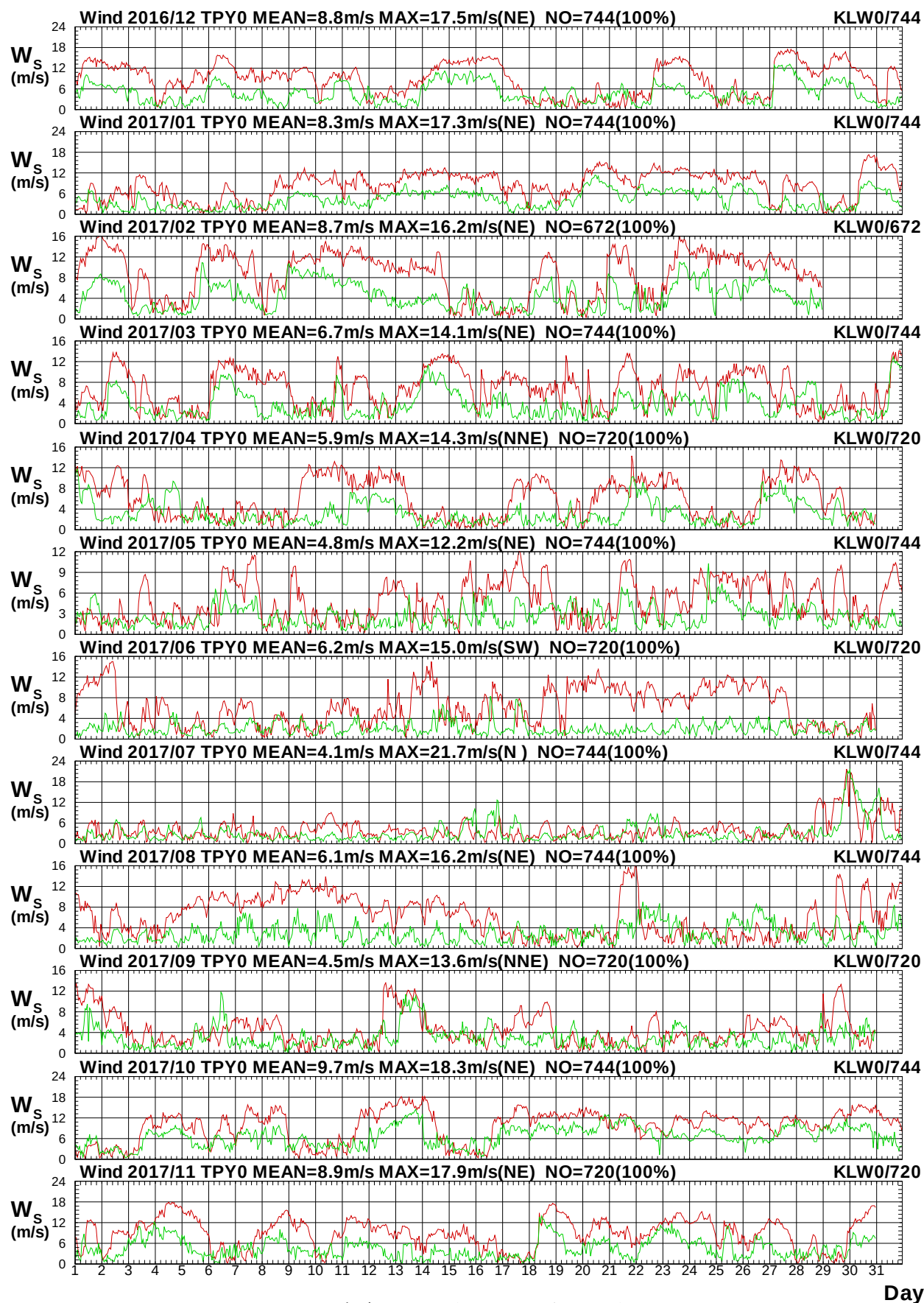


圖1.32a 2017年每月北苗海域 Y 站與北端海域 W 站風速圖

W16CTPY0.1HA W16CKLW0.1H0 W171TPY0.1HA W171KLW0.1H0 W172TPY0.1HA W172KLW0.1H0
W173TPY0.1HA W173KLW0.1H0 W174TPY0.1HA W174KLW0.1H0 W175TPY0.1HA W175KLW0.1H0

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Wind Direction in Pei-Miao Seas of TPY0 at 2017

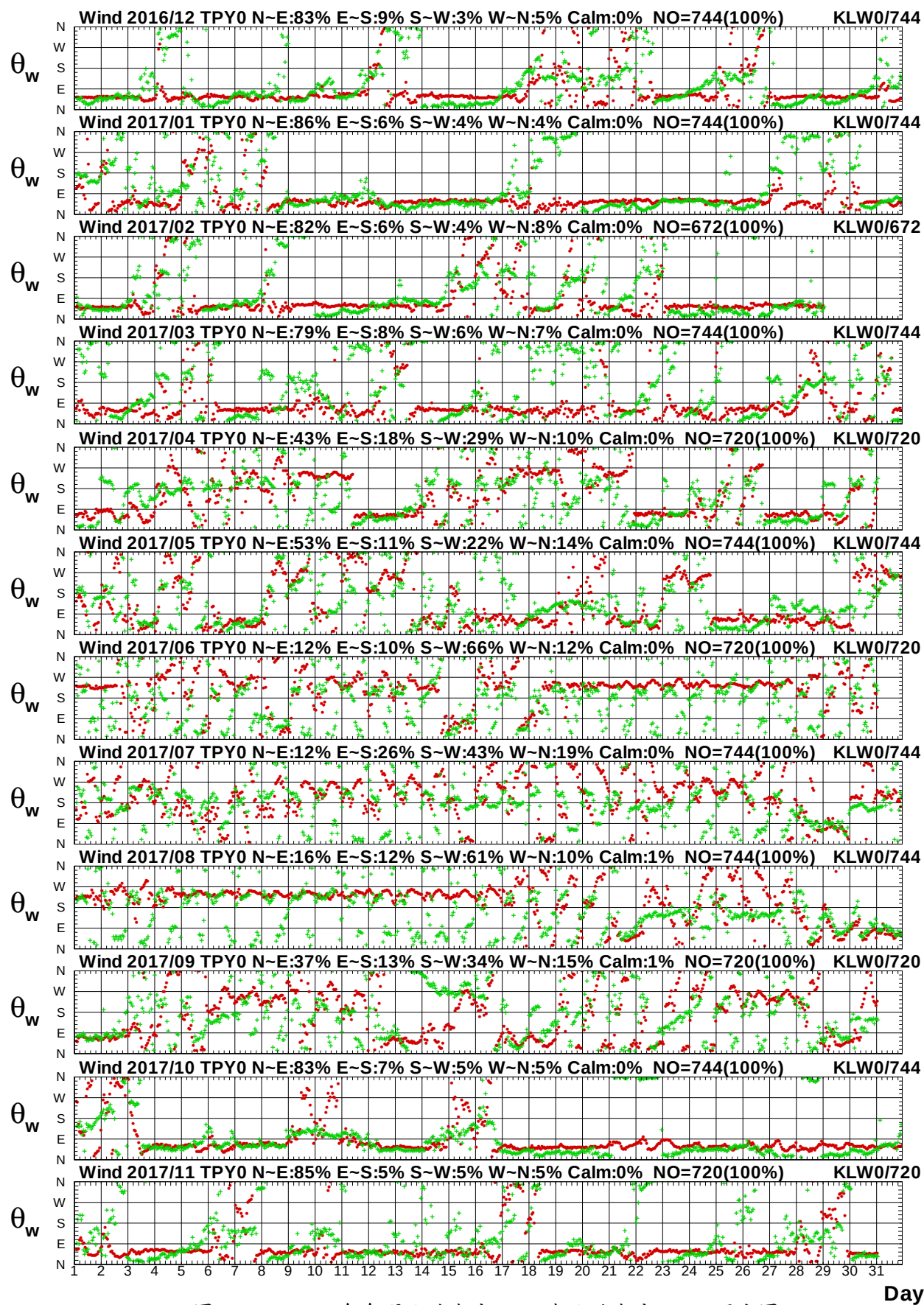


圖1.32b 2017年每月北苗海域 Y 站與北端海域 W 站風向圖

W16CTPY0.1HA W16CKLW0.1H0 W171TPY0.1HA W171KLW0.1H0 W172TPY0.1HA W172KLW0.1H0
W173TPY0.1HA W173KLW0.1H0 W174TPY0.1HA W174KLW0.1H0 W175TPY0.1HA W175KLW0.1H0

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Wind Speed in Pei-Miao Seas of TPY0 at 2017

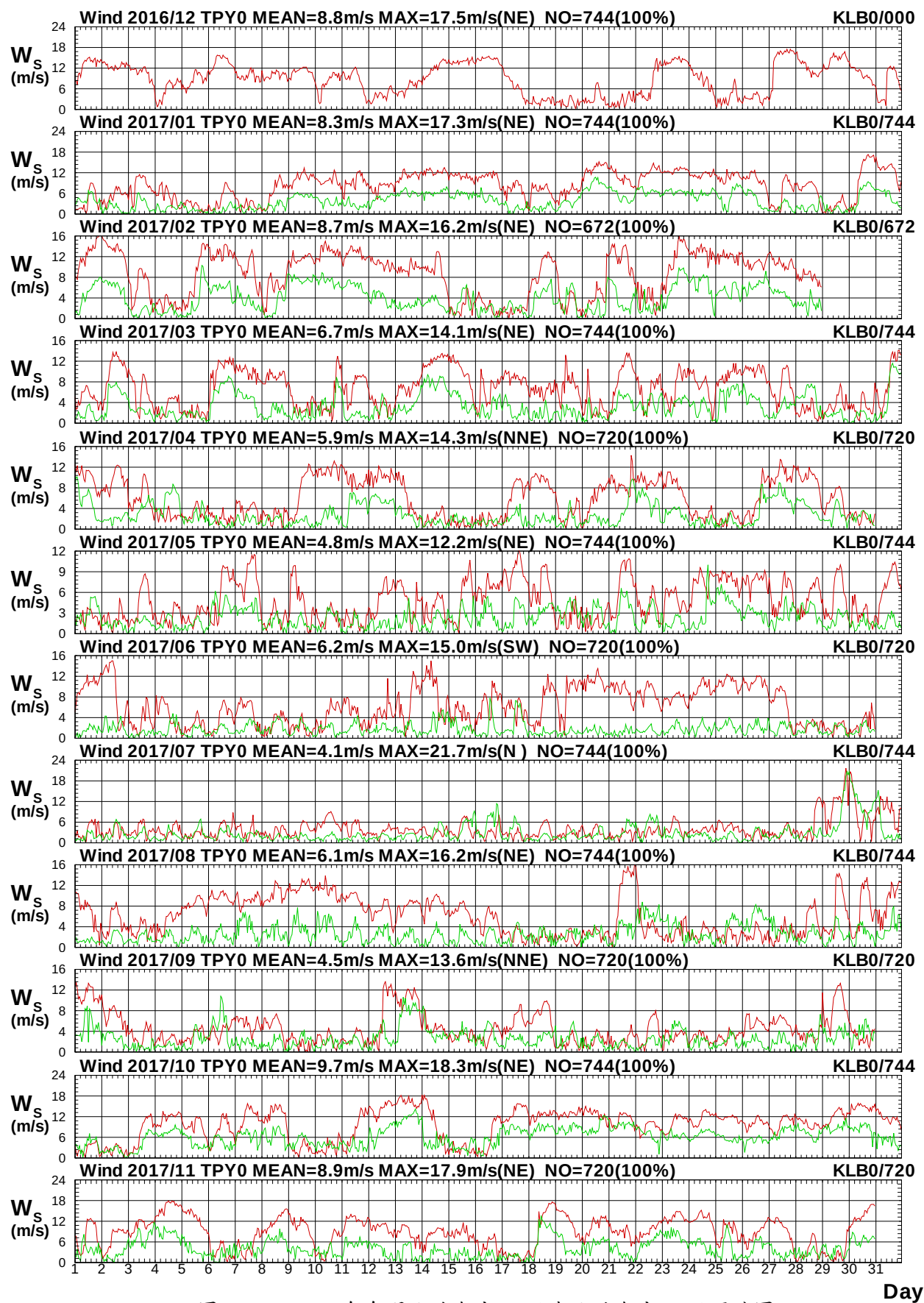


圖1.33a 2017年每月北苗海域 Y 站與北端海域 B 站風速圖

W16CTPY0.1HA W16CKLB0.1H0 W171TPY0.1HA W171KLB0.1H0 W172TPY0.1HA W172KLB0.1H0
W173TPY0.1HA W173KLB0.1H0 W174TPY0.1HA W174KLB0.1H0 W175TPY0.1HA W175KLB0.1H0

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Wind Direction in Pei-Miao Seas of TPY0 at 2017

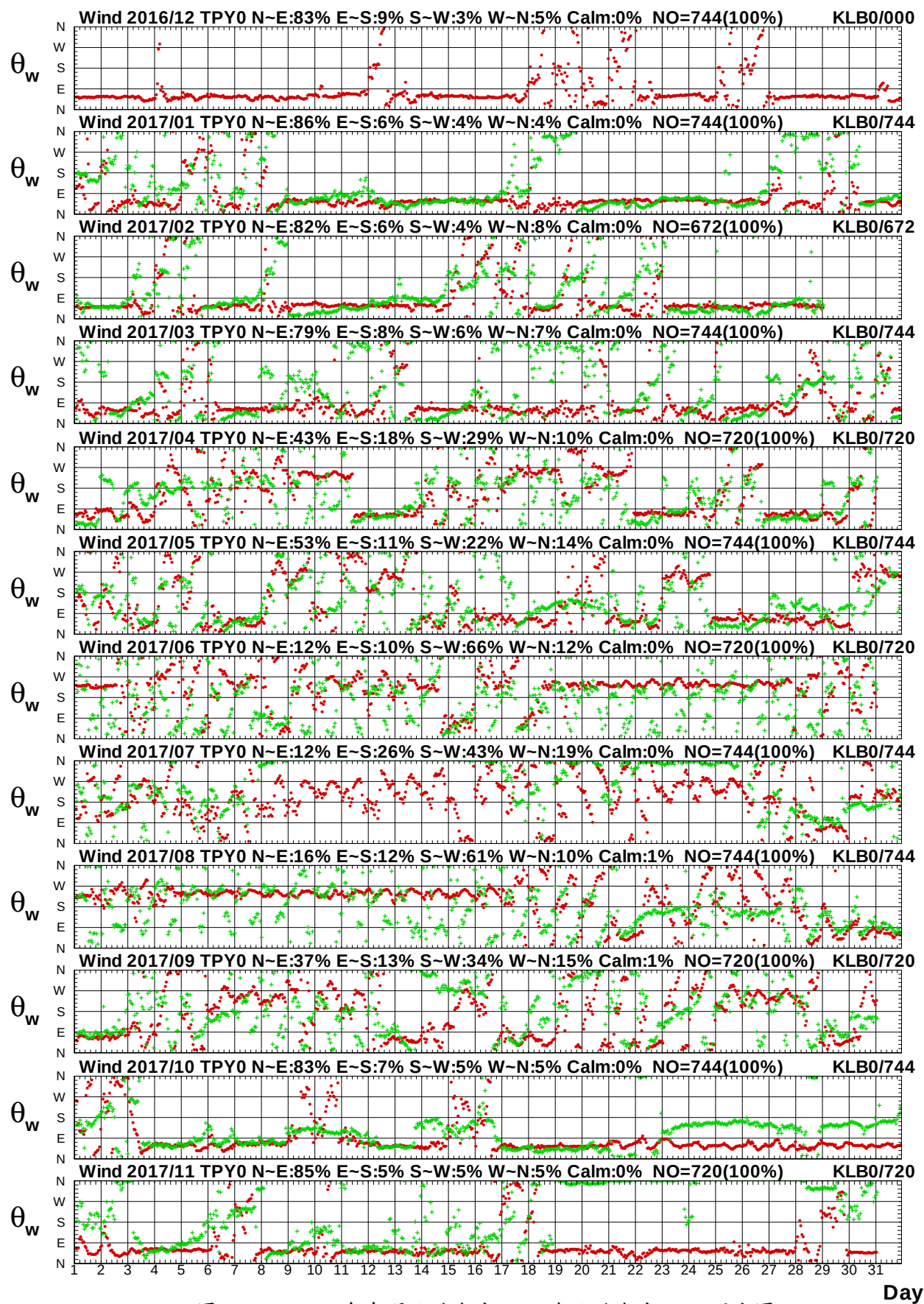


圖1.33b 2017年每月北苗海域 Y 站與北端海域 B 站風向圖

W16CTPY0.1HA W16CKLB0.1H0 W171TPY0.1HA W171KLB0.1H0 W172TPY0.1HA W172KLB0.1H0
W173TPY0.1HA W173KLB0.1H0 W174TPY0.1HA W174KLB0.1H0 W175TPY0.1HA W175KLB0.1H0

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Wind Speed in Pei-Miao Seas of TPY0 at 2017

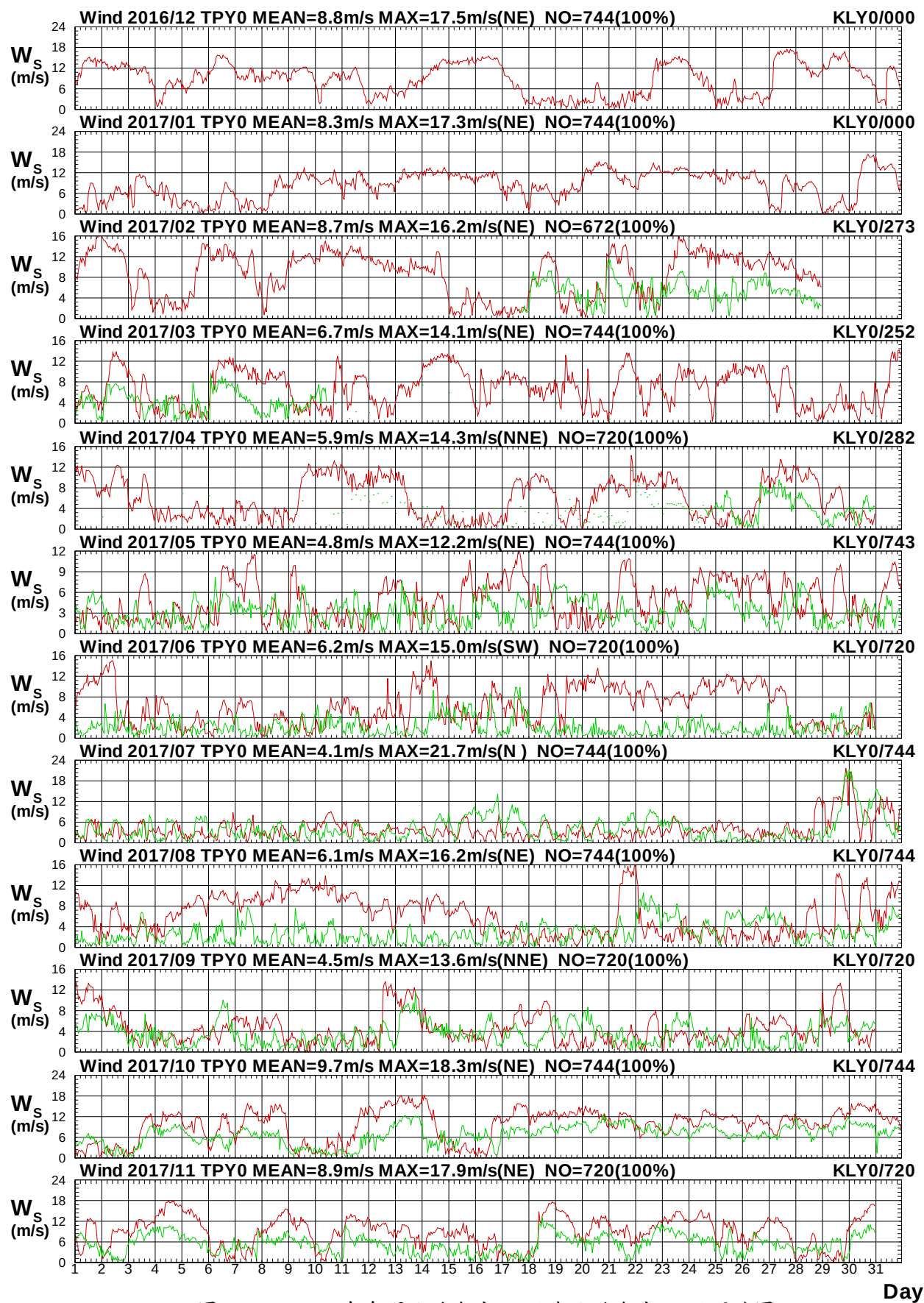


圖1.34a 2017年每月北苗海域 Y 站與北端海域 Y 站風速圖

W16CTPY0.1HA W16CKLY0.1H0 W171TPY0.1HA W171KLY0.1H0 W172TPY0.1HA W172KLY0.1H0
W173TPY0.1HA W173KLY0.1H0 W174TPY0.1HA W174KLY0.1H0 W175TPY0.1HA W175KLY0.1H0

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Wind Direction in Pei-Miao Seas of TPY0 at 2017

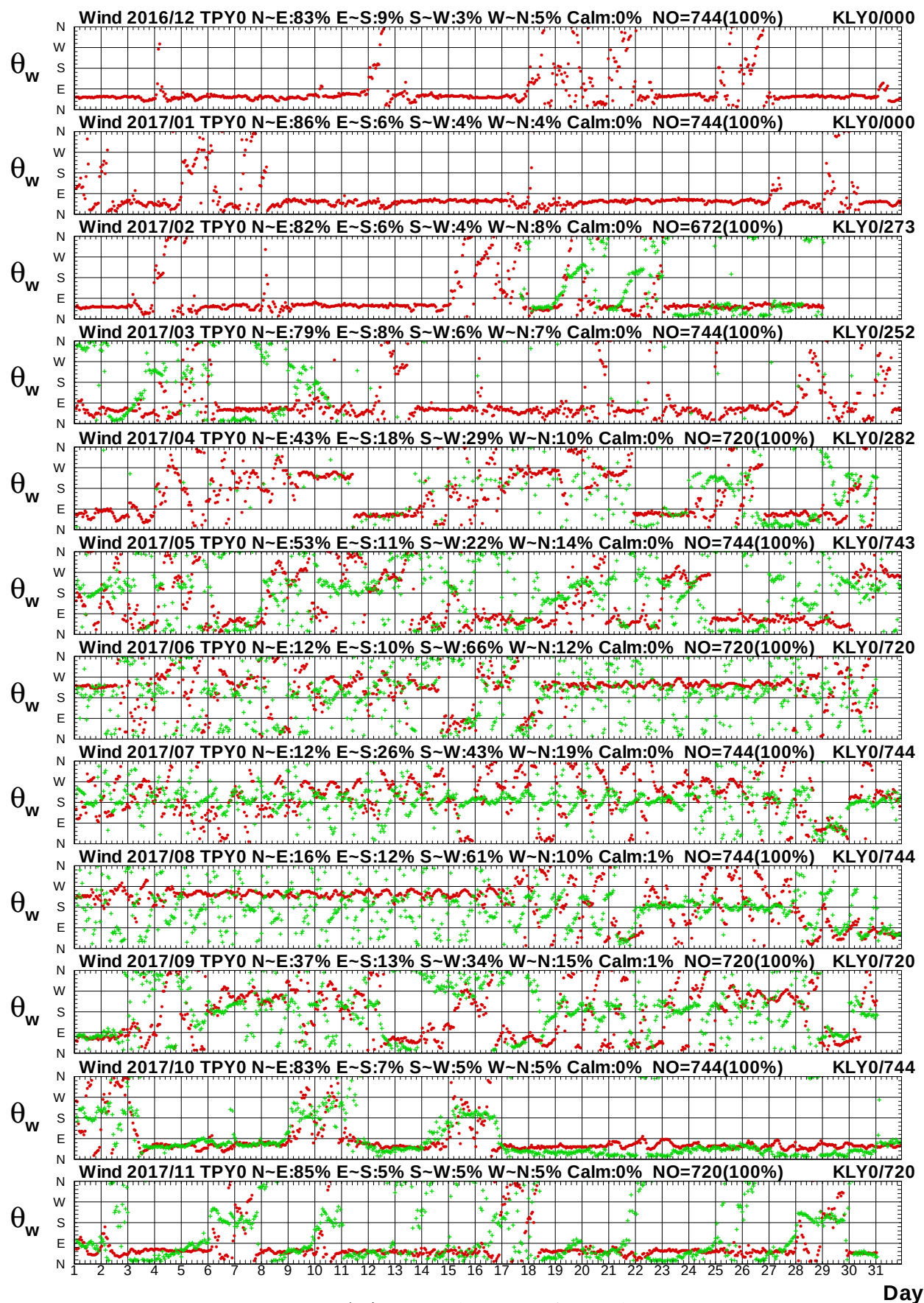


圖1.34b 2017年每月北苗海域 Y 站與北端海域 Y 站風向圖

W16CTPY0.1HA W16CKLY0.1H0 W171TPY0.1HA W171KLY0.1H0 W172TPY0.1HA W172KLY0.1H0
W173TPY0.1HA W173KLY0.1H0 W174TPY0.1HA W174KLY0.1H0 W175TPY0.1HA W175KLY0.1H0

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Wind Speed in Pei-Miao Seas of TPY0 at 2017

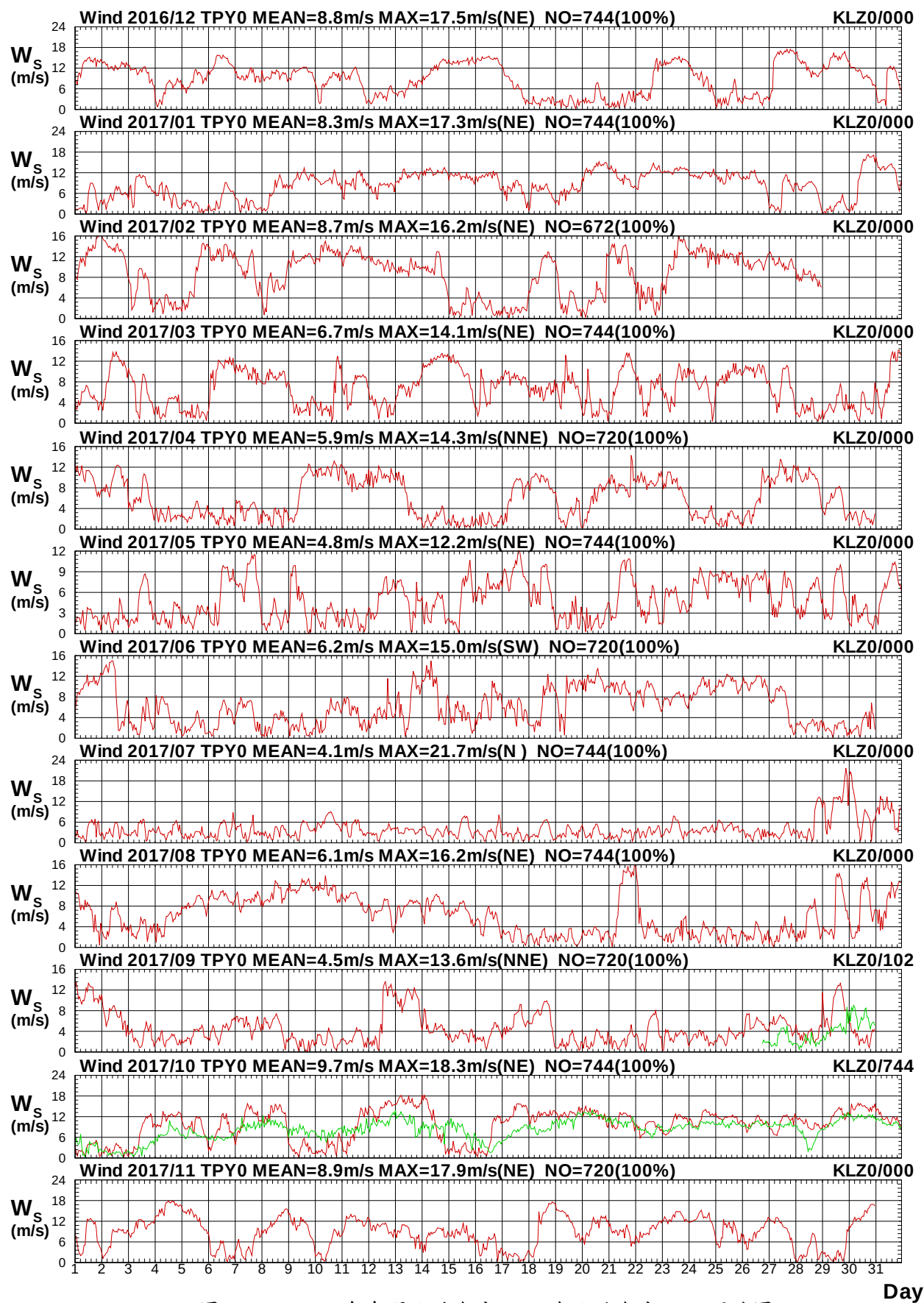


圖1.35a 2017年每月北苗海域 Y 站與北端海域 Z 站風速圖

W16CTPY0.1HA W16CKLZ0.1H0 W171TPY0.1HA W171KLZ0.1H0 W172TPY0.1HA W172KLZ0.1H0
W173TPY0.1HA W173KLZ0.1H0 W174TPY0.1HA W174KLZ0.1H0 W175TPY0.1HA W175KLZ0.1H0

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Wind Direction in Pei-Miao Seas of TPY0 at 2017

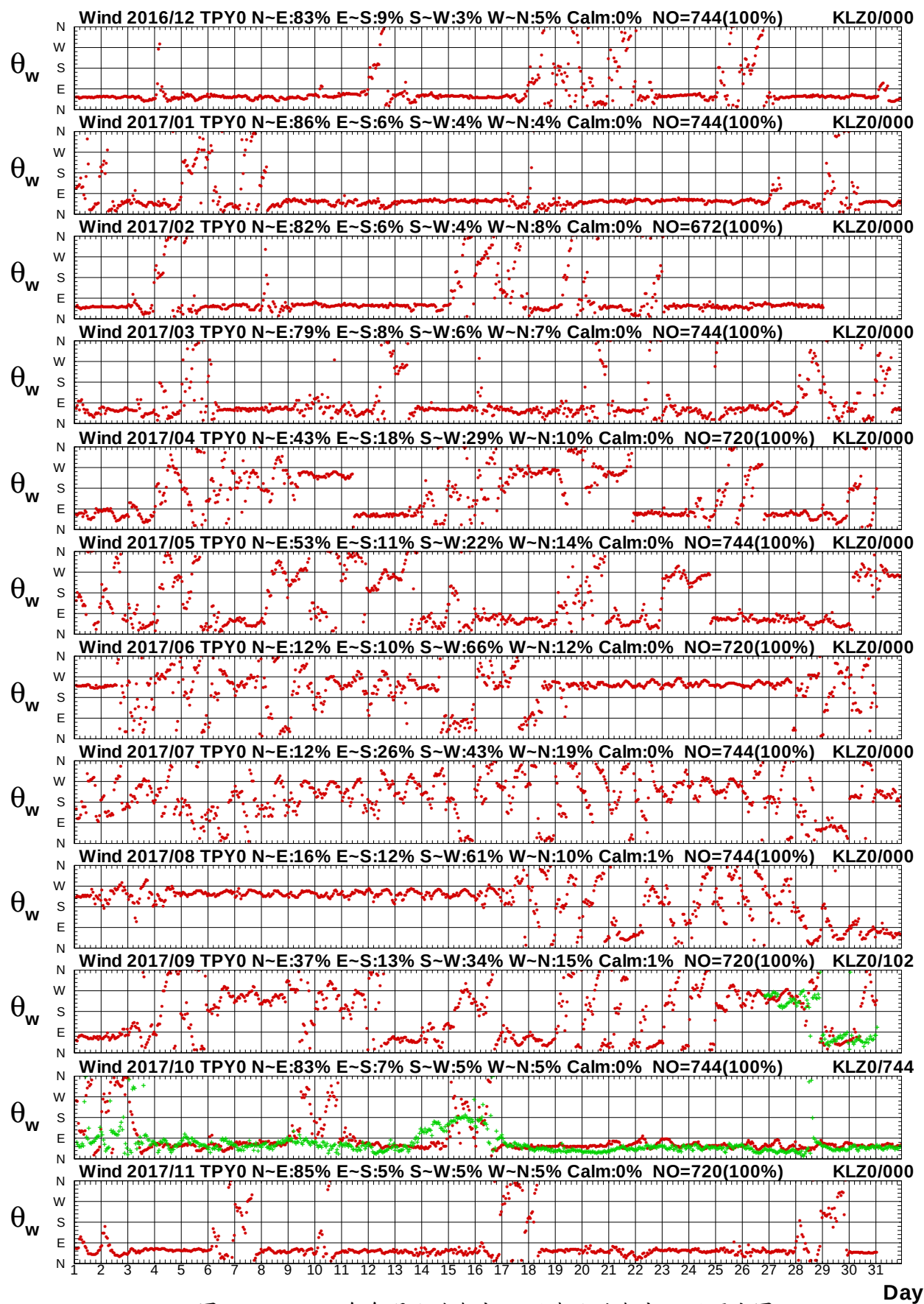


圖1.35b 2017年每月北苗海域 Y 站與北端海域 Z 站風向圖

W16CTPY0.1HA W16CKLZ0.1H0 W171TPY0.1HA W171KLZ0.1H0 W172TPY0.1HA W172KLZ0.1H0
W173TPY0.1HA W173KLZ0.1H0 W174TPY0.1HA W174KLZ0.1H0 W175TPY0.1HA W175KLZ0.1H0

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Wind Speed in Pei-Miao Seas of TPY0 at 2017

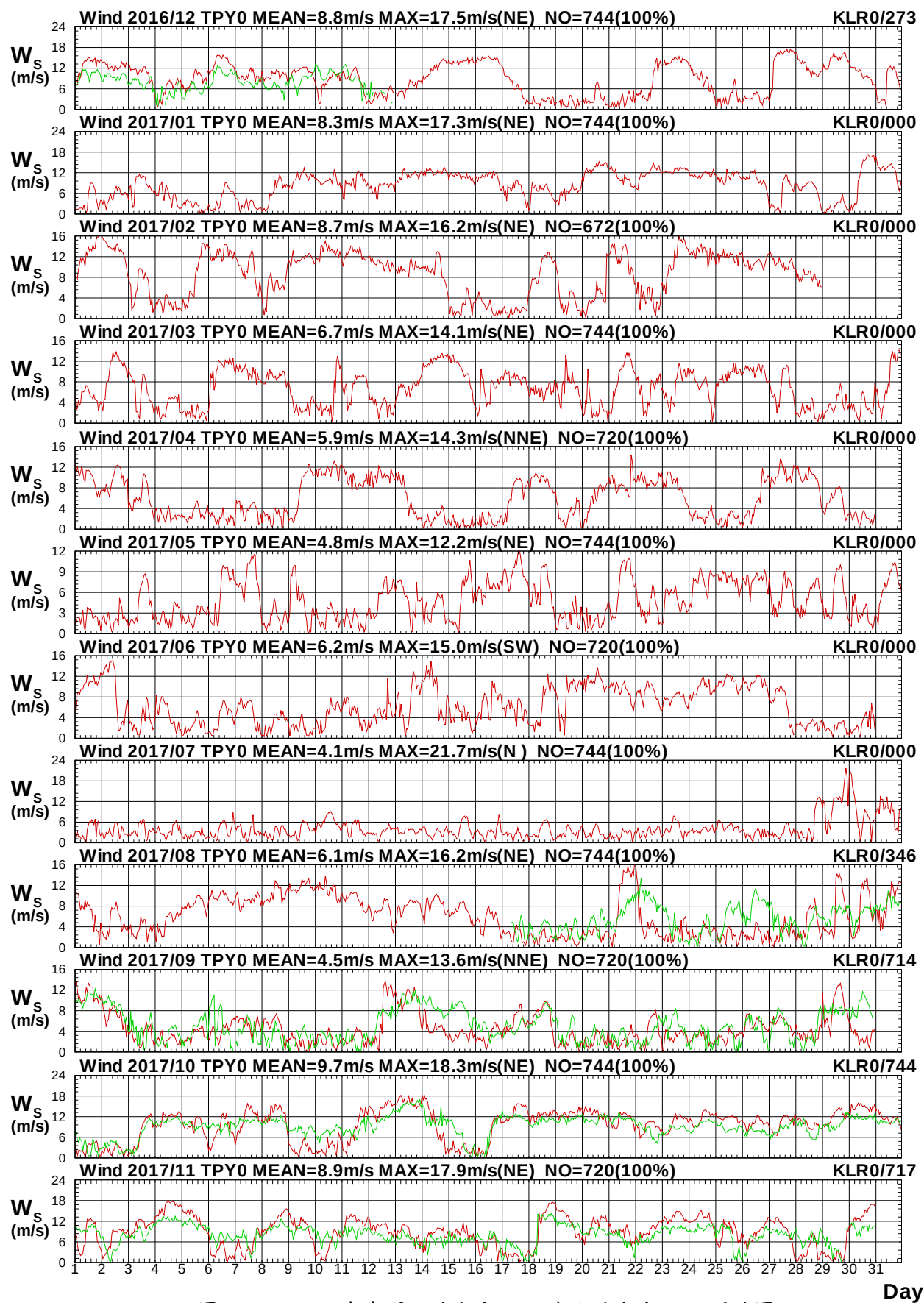


圖1.36a 2017年每月北苗海域 Y 站與北端海域 R 站風速圖

W16CTPY0.1HA W16CKLR0.1H0 W171TPY0.1HA W171KLR0.1H0 W172TPY0.1HA W172KLR0.1H0
W173TPY0.1HA W173KLR0.1H0 W174TPY0.1HA W174KLR0.1H0 W175TPY0.1HA W175KLR0.1H0

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Wind Direction in Pei-Miao Seas of TPY0 at 2017

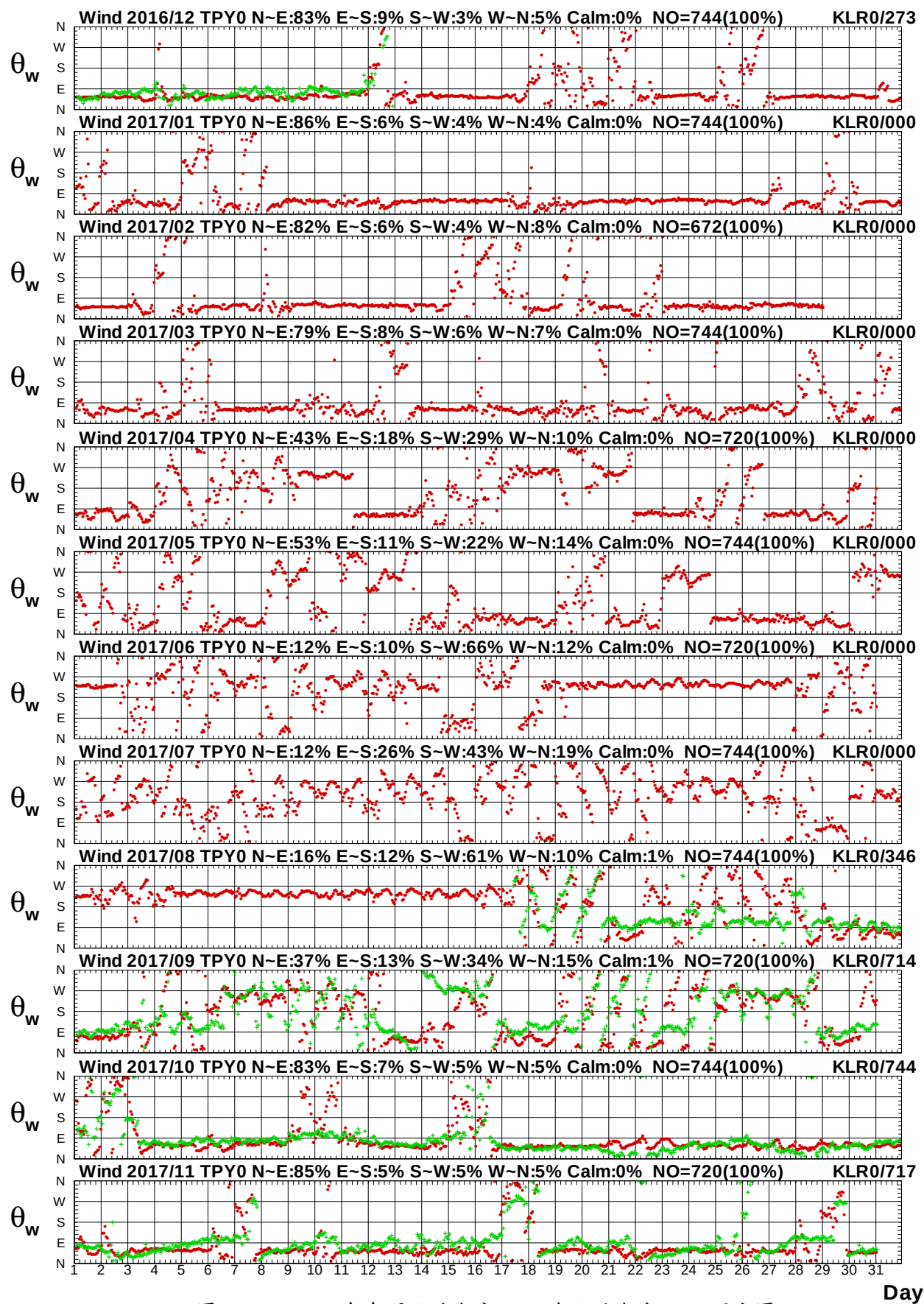


圖1.36b 2017年每月北苗海域 Y 站與北端海域 R 站風向圖

W16CTPY0.1HA W16CKLR0.1H0 W171TPY0.1HA W171KLR0.1H0 W172TPY0.1HA W172KLR0.1H0
W173TPY0.1HA W173KLR0.1H0 W174TPY0.1HA W174KLR0.1H0 W175TPY0.1HA W175KLR0.1H0

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Wind Speed in Pei-Miao Seas of TPY0 at 2017

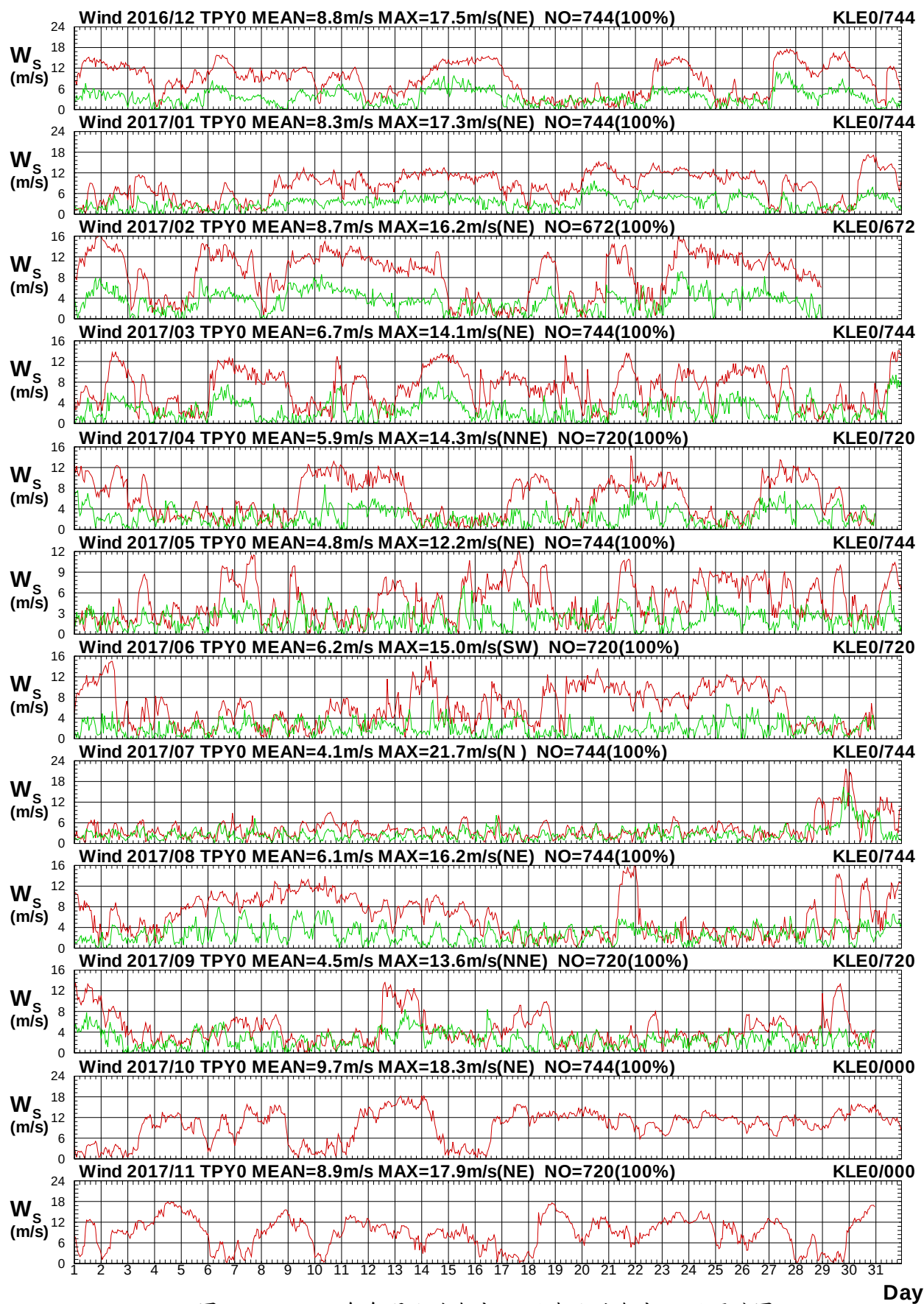


圖1.37a 2017年每月北苗海域 Y 站與北端海域 E 站風速圖

W16CTPY0.1HA W16CKLE0.1H0 W171TPY0.1HA W171KLE0.1H0 W172TPY0.1HA W172KLE0.1H0
W173TPY0.1HA W173KLE0.1H0 W174TPY0.1HA W174KLE0.1H0 W175TPY0.1HA W175KLE0.1H0

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Wind Direction in Pei-Miao Seas of TPY0 at 2017

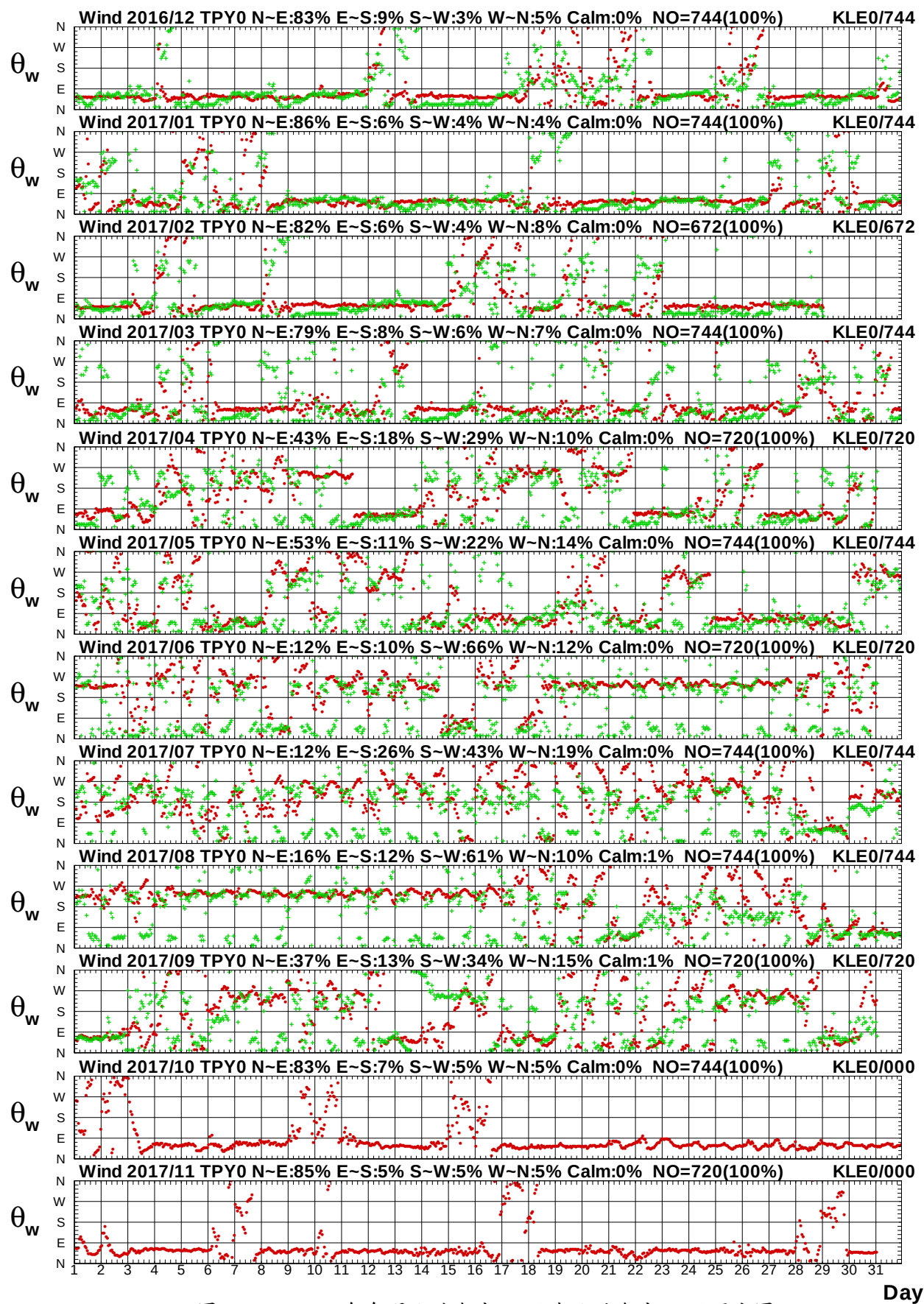


圖1.37b 2017年每月北苗海域 Y 站與北端海域 E 站風向圖

W16CTPY0.1HA W16CKLE0.1H0 W171TPY0.1HA W171KLE0.1H0 W172TPY0.1HA W172KLE0.1H0
W173TPY0.1HA W173KLE0.1H0 W174TPY0.1HA W174KLE0.1H0 W175TPY0.1HA W175KLE0.1H0

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Wind Speed in Pei-Miao Seas of TPY0 at 2017

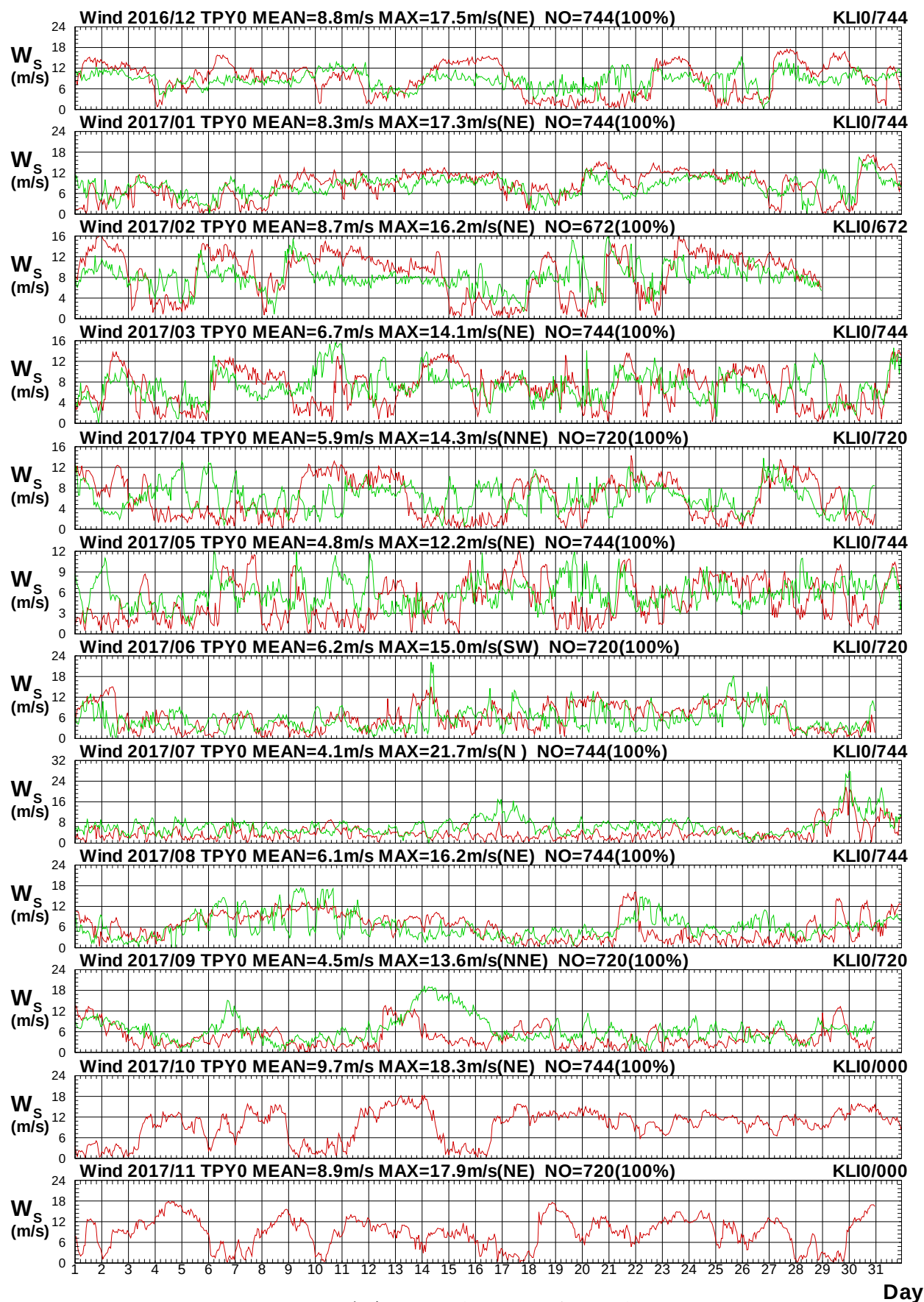


圖1.38a 2017年每月北苗海域 Y 站與北端海域 I 站風速圖

W16CTPY0.1HA W16CKLI0.1H0 W171TPY0.1HA W171KLI0.1H0 W172TPY0.1HA W172KLI0.1H0
W173TPY0.1HA W173KLI0.1H0 W174TPY0.1HA W174KLI0.1H0 W175TPY0.1HA W175KLI0.1H0

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Wind Direction in Pei-Miao Seas of TPY0 at 2017

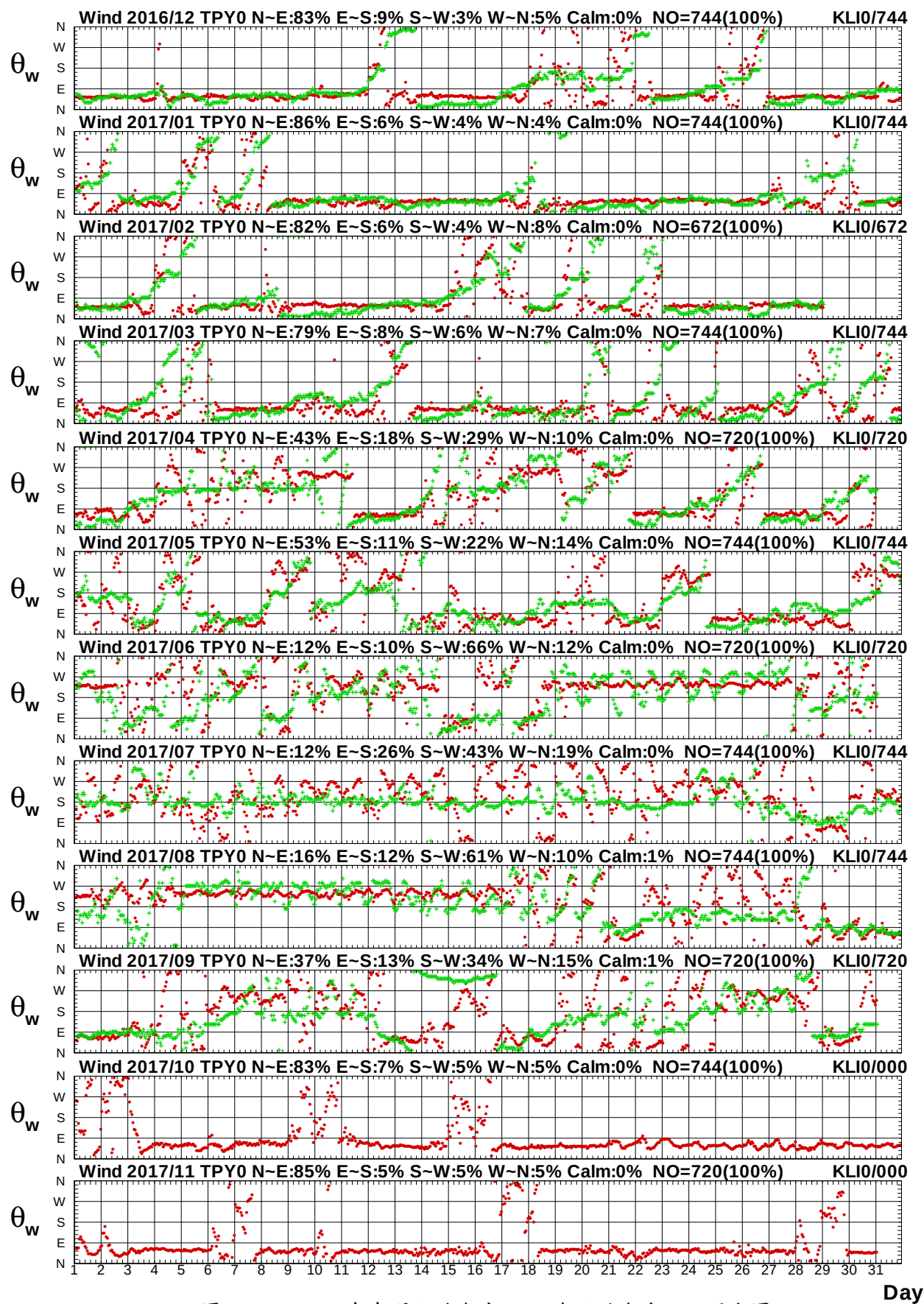


圖1.38b 2017年每月北苗海域 Y 站與北端海域 I 站風向圖

W16CTPY0.1HA W16CKLI0.1H0 W171TPY0.1HA W171KLI0.1H0 W172TPY0.1HA W172KLI0.1H0
W173TPY0.1HA W173KLI0.1H0 W174TPY0.1HA W174KLI0.1H0 W175TPY0.1HA W175KLI0.1H0

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Wind Speed in Pei-Miao Seas of TPY0 at 2017

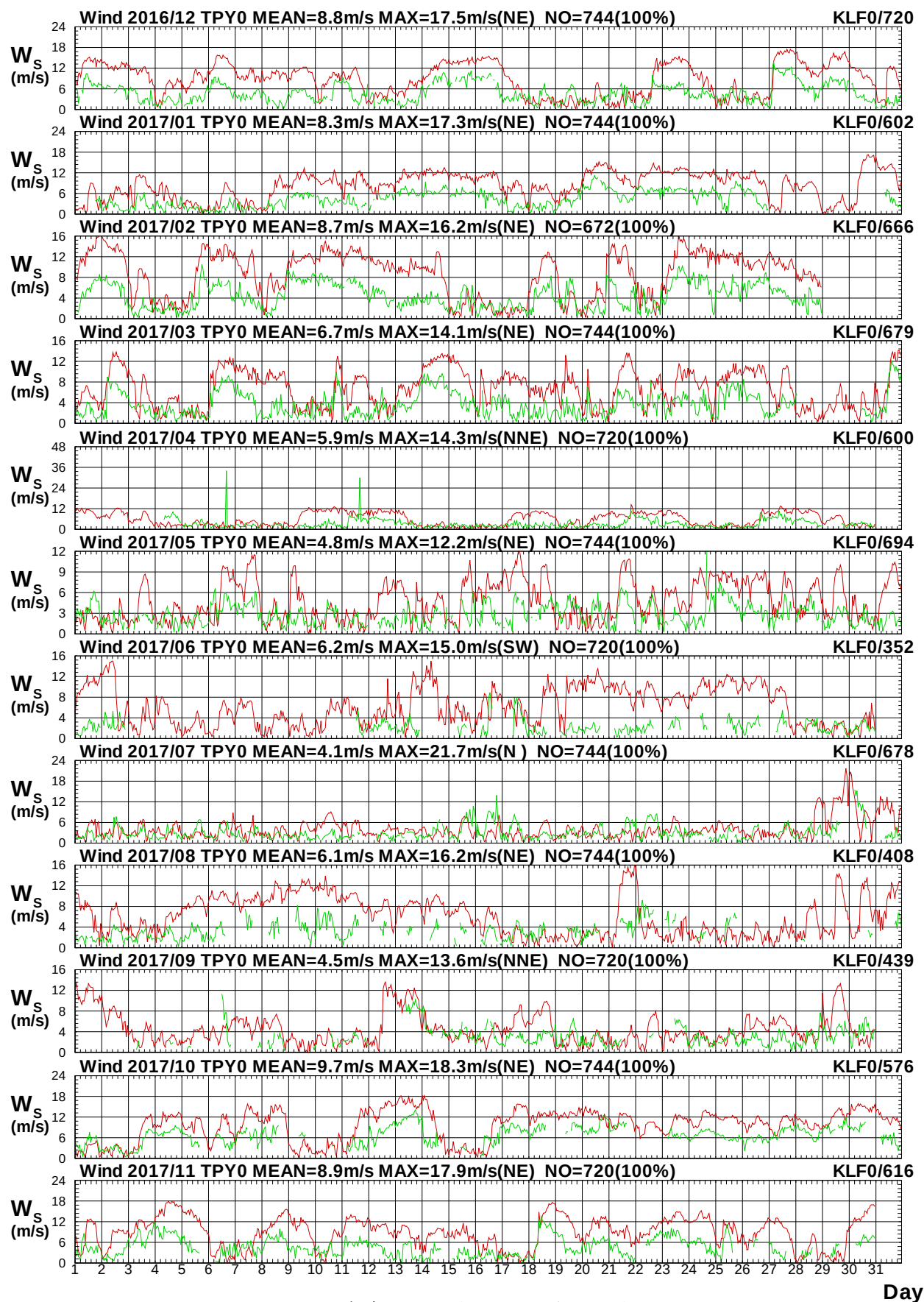


圖1.39a 2017年每月北苗海域 Y 站與北端海域 F 站風速圖

W16CTPY0.1HA W16CKLF0.1H0 W171TPY0.1HA W171KLF0.1H0 W172TPY0.1HA W172KLF0.1H0
W173TPY0.1HA W173KLF0.1H0 W174TPY0.1HA W174KLF0.1H0 W175TPY0.1HA W175KLF0.1H0

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Wind Direction in Pei-Miao Seas of TPY0 at 2017

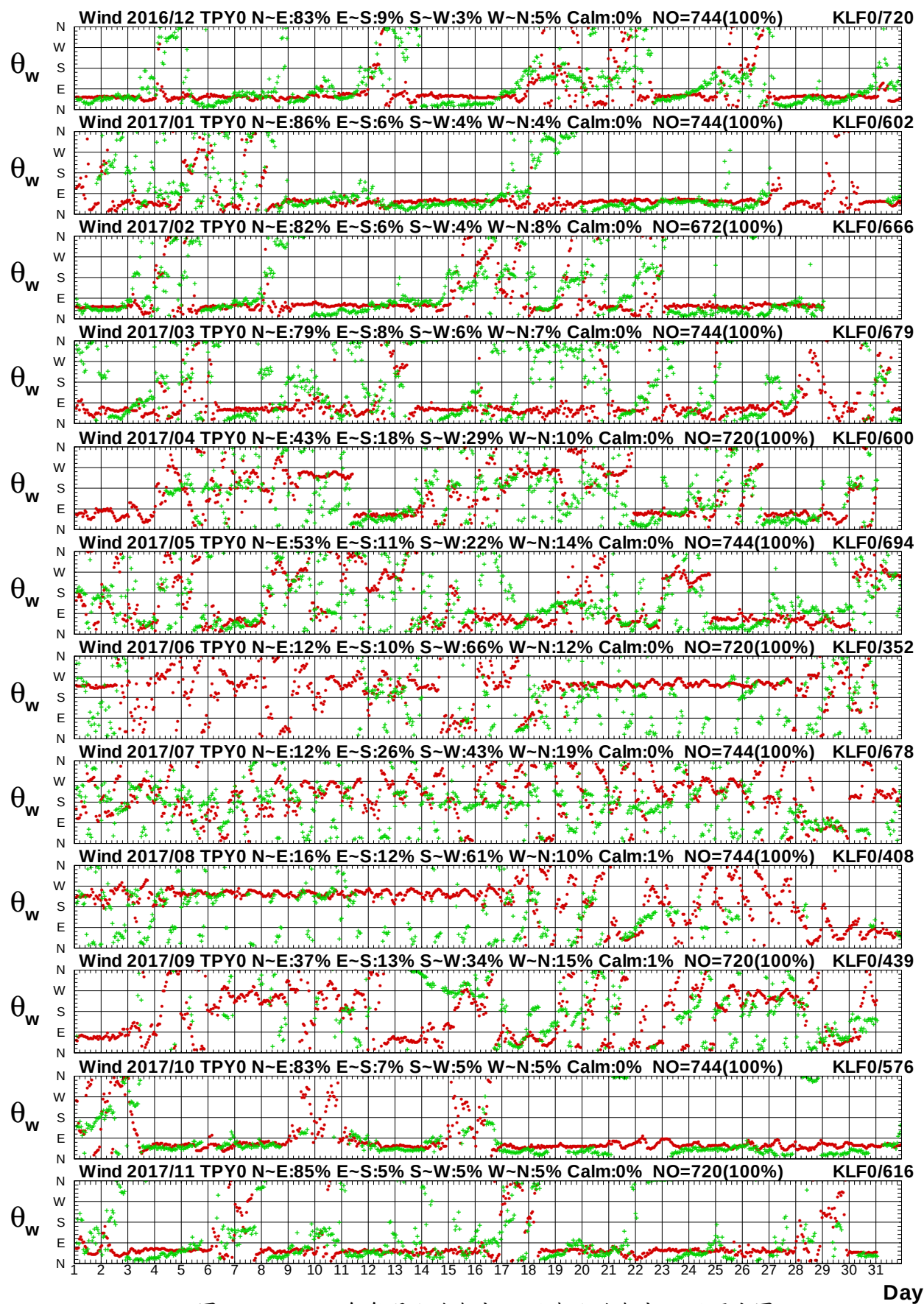


圖1.39b 2017年每月北苗海域 Y 站與北端海域 F 站風向圖

W16CTPY0.1HA W16CKLF0.1H0 W171TPY0.1HA W171KLF0.1H0 W172TPY0.1HA W172KLF0.1H0
W173TPY0.1HA W173KLF0.1H0 W174TPY0.1HA W174KLF0.1H0 W175TPY0.1HA W175KLF0.1H0

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Wind Speed in Pei-Miao Seas of TPY0 at 2017

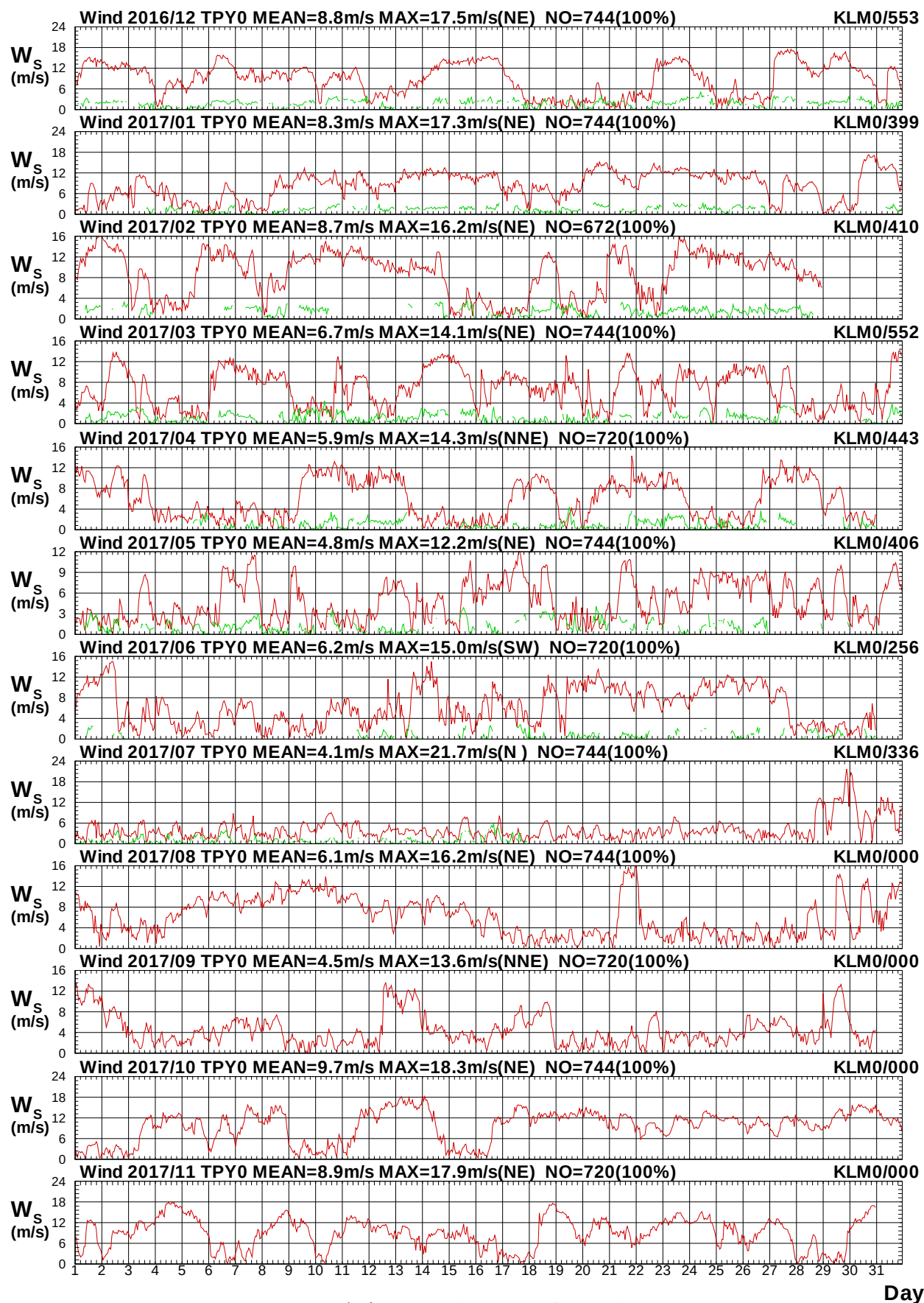


圖1.40a 2017年每月北苗海域 Y 站與北端海域 M 站風速圖

W16CTPY0.1HA W16CKLM0.1H0 W171TPY0.1HA W171KLM0.1H0 W172TPY0.1HA W172KLM0.1H0
W173TPY0.1HA W173KLM0.1H0 W174TPY0.1HA W174KLM0.1H0 W175TPY0.1HA W175KLM0.1H0

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Wind Direction in Pei-Miao Seas of TPY0 at 2017

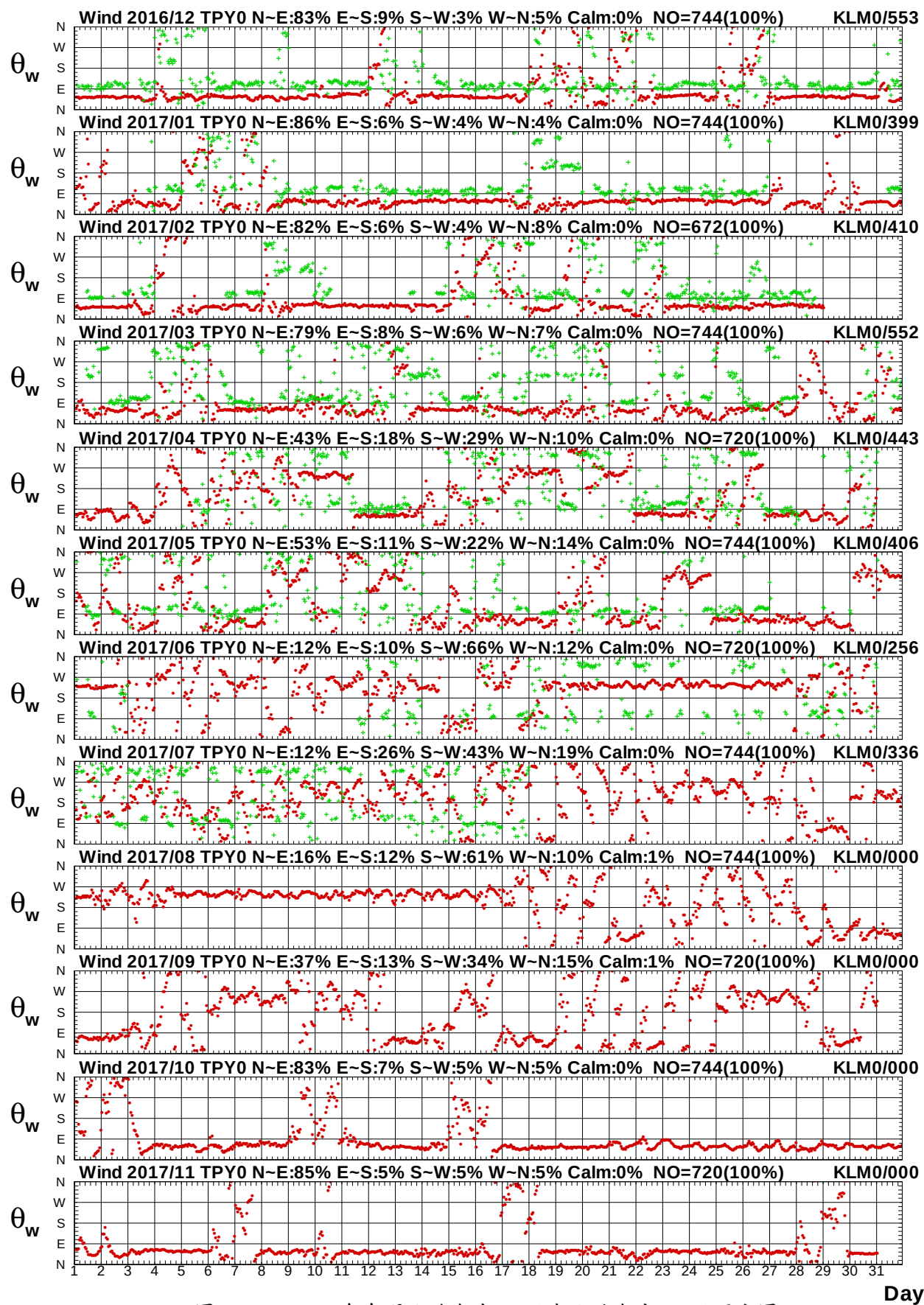


圖1.40b 2017年每月北苗海域 Y 站與北端海域 M 站風向圖

W16CTPY0.1HA W16CKLM0.1H0 W171TPY0.1HA W171KLM0.1H0 W172TPY0.1HA W172KLM0.1H0
W173TPY0.1HA W173KLM0.1H0 W174TPY0.1HA W174KLM0.1H0 W175TPY0.1HA W175KLM0.1H0

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Wind Speed in Pei-Miao Seas of TPY0 at 2017

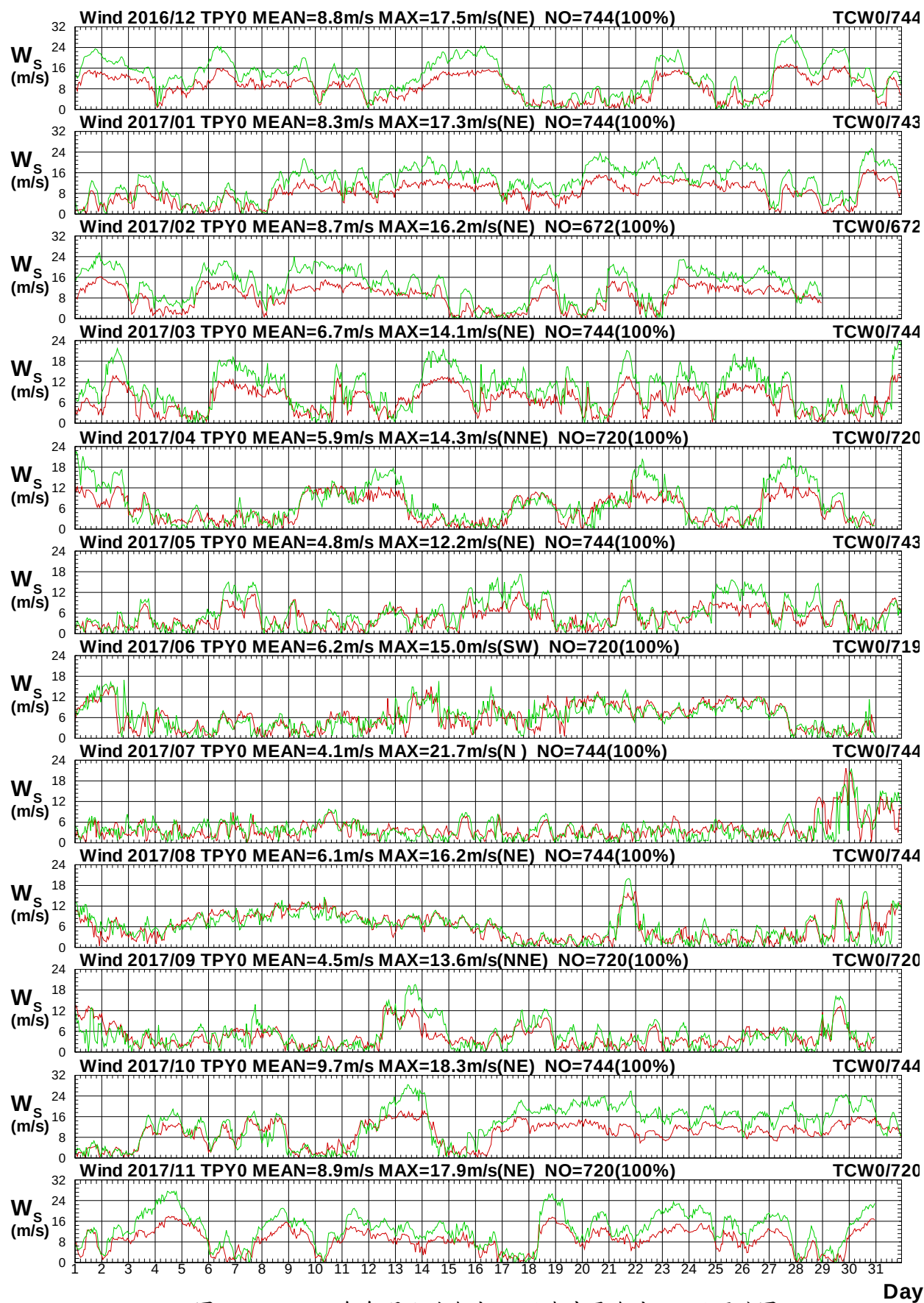


圖1.41a 2017年每月北苗海域 Y 站與中雲海域 W 站風速圖

W16CTPY0.1HA W16CTCW0.1H0 W171TPY0.1HA W171TCW0.1H0 W172TPY0.1HA W172TCW0.1H0
W173TPY0.1HA W173TCW0.1H0 W174TPY0.1HA W174TCW0.1H0 W175TPY0.1HA W175TCW0.1H0

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Wind Direction in Pei-Miao Seas of TPY0 at 2017

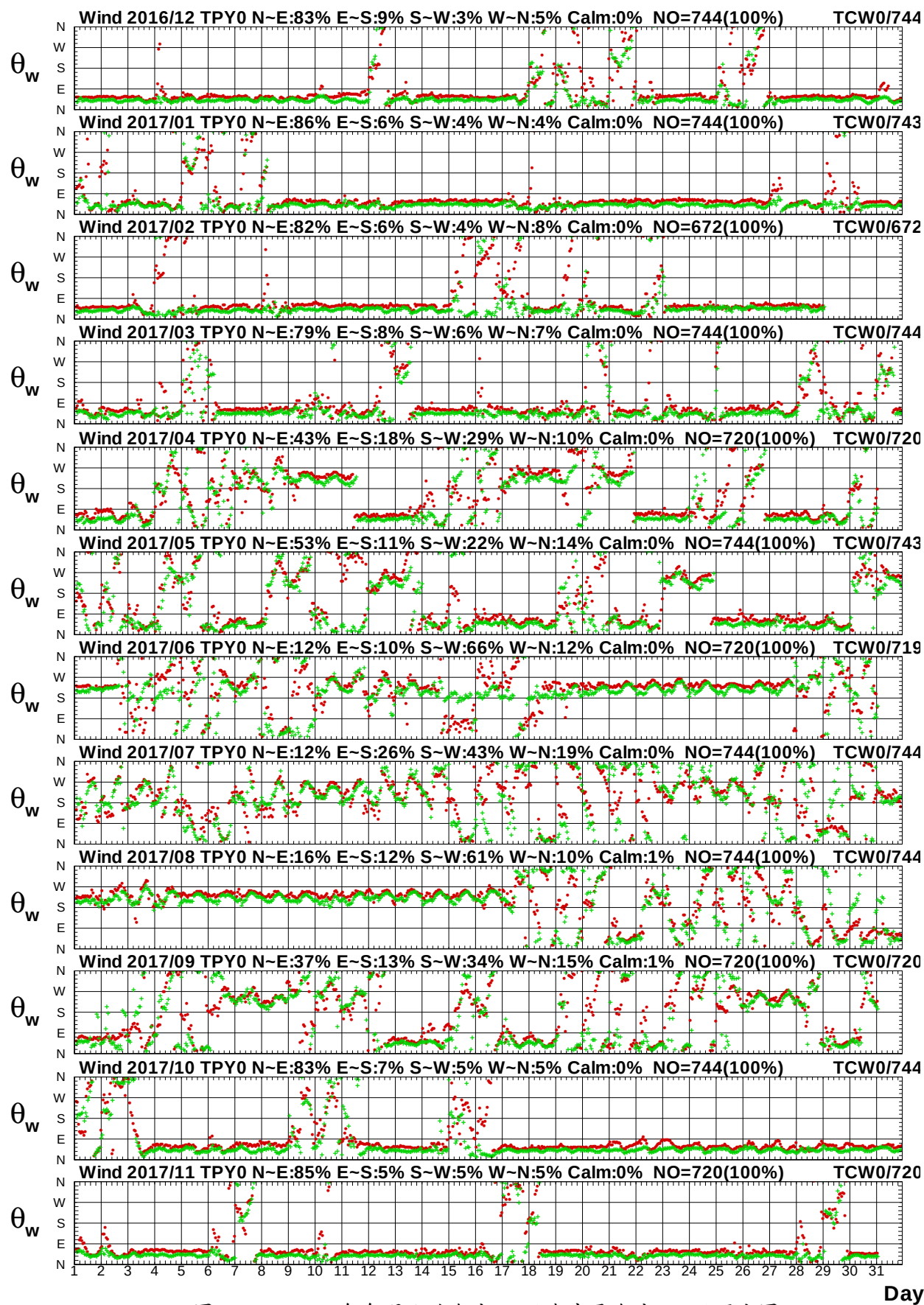


圖1.41b 2017年每月北苗海域 Y 站與中雲海域 W 站風向圖

W16CTPY0.1HA W16CTCW0.1H0 W171TPY0.1HA W171TCW0.1H0 W172TPY0.1HA W172TCW0.1H0
W173TPY0.1HA W173TCW0.1H0 W174TPY0.1HA W174TCW0.1H0 W175TPY0.1HA W175TCW0.1H0

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Wind Speed in Pei-Miao Seas of TPY0 at 2017

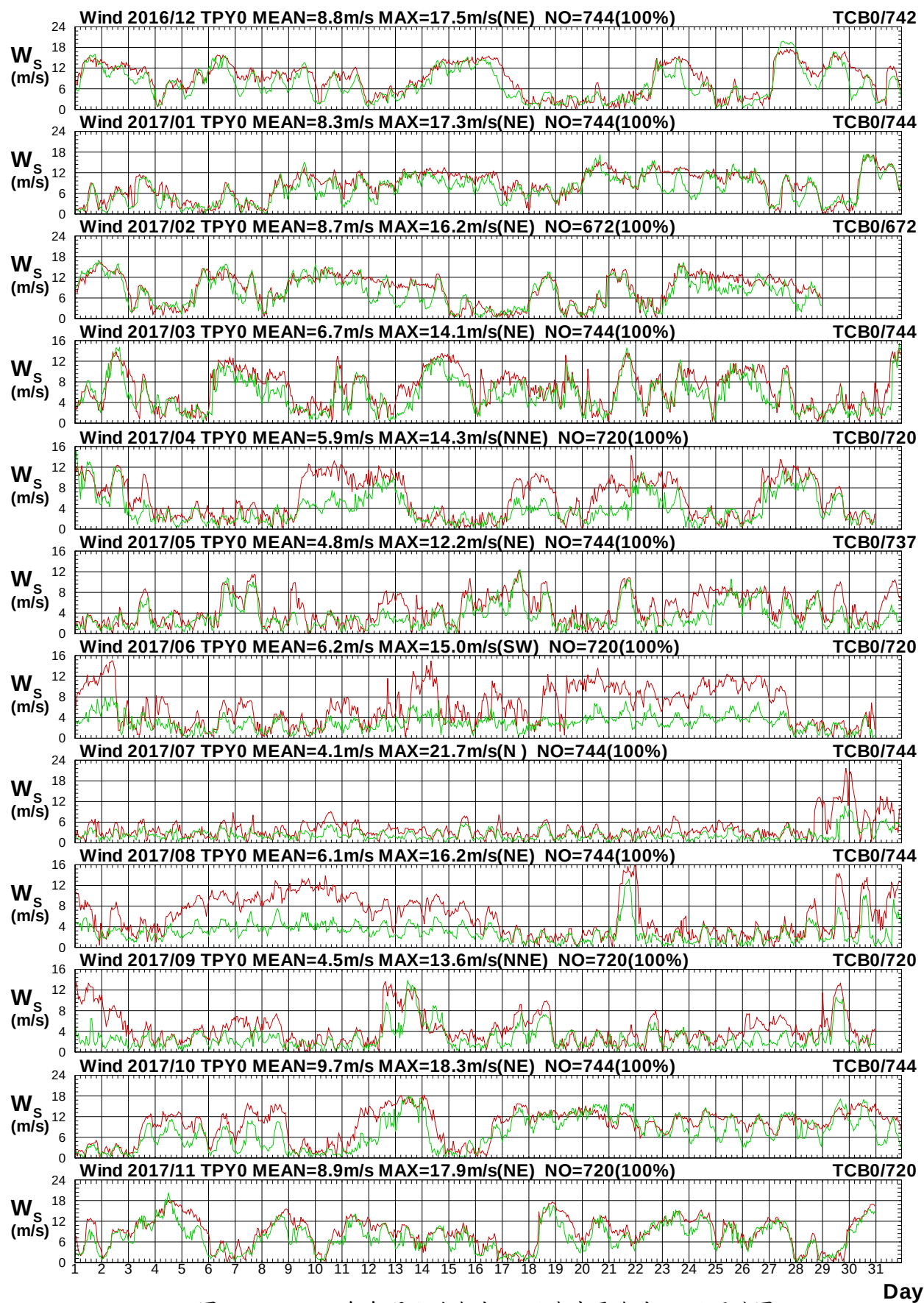


圖1.42a 2017年每月北苗海域 Y 站與中雲海域 B 站風速圖

W16CTPY0.1HA W16CTCB0.1H0 W171TPY0.1HA W171TCB0.1H0 W172TPY0.1HA W172TCB0.1H0
W173TPY0.1HA W173TCB0.1H0 W174TPY0.1HA W174TCB0.1H0 W175TPY0.1HA W175TCB0.1H0

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Wind Direction in Pei-Miao Seas of TPY0 at 2017

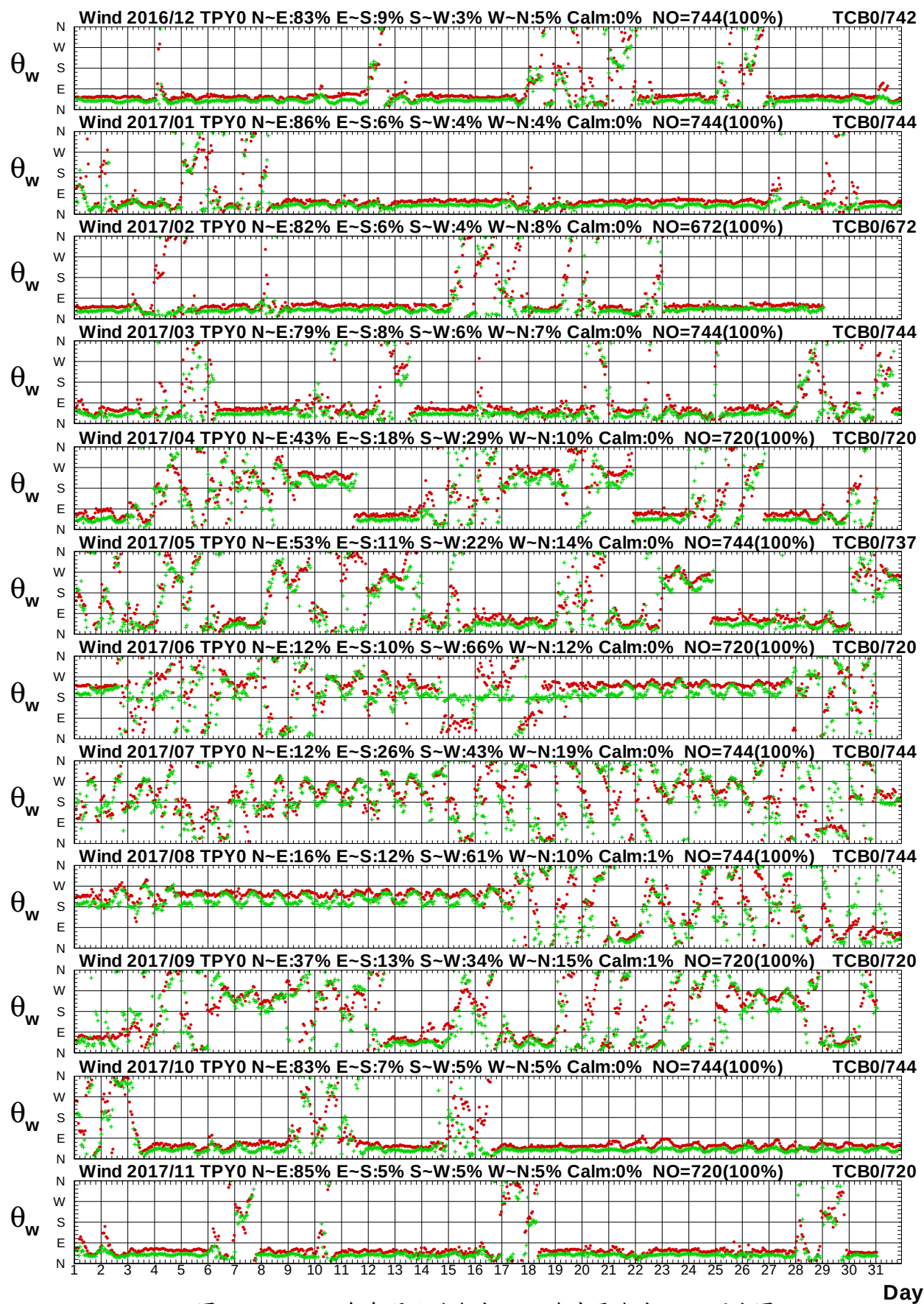


圖1.42b 2017年每月北苗海域 Y 站與中雲海域 B 站風向圖

W16CTPY0.1HA W16CTCB0.1H0 W171TPY0.1HA W171TCB0.1H0 W172TPY0.1HA W172TCB0.1H0
W173TPY0.1HA W173TCB0.1H0 W174TPY0.1HA W174TCB0.1H0 W175TPY0.1HA W175TCB0.1H0

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Wind Speed in Pei-Miao Seas of TPY0 at 2017

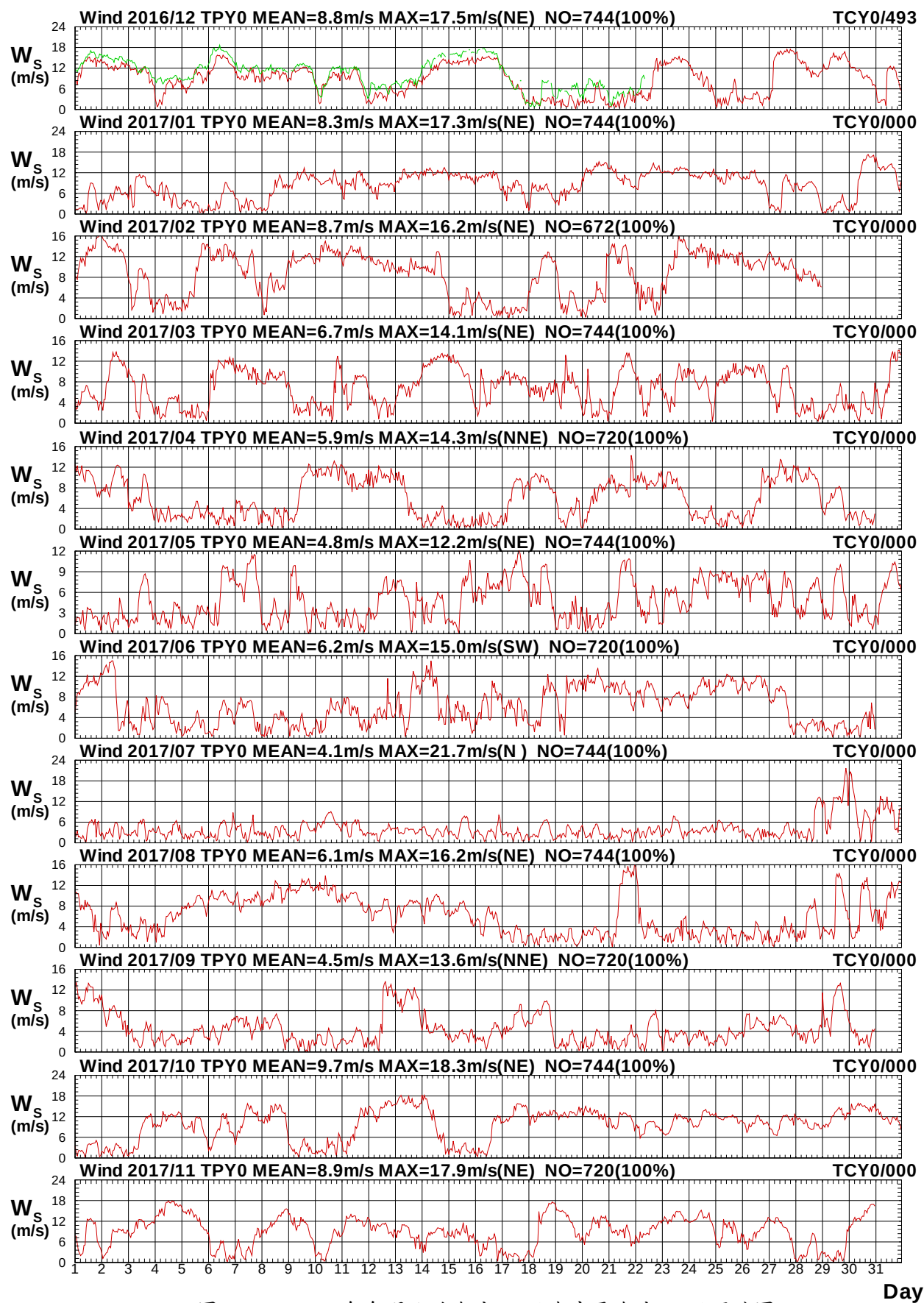


圖1.43a 2017年每月北苗海域 Y 站與中雲海域 Y 站風速圖

W16CTPY0.1HA W16CTCY0.1H0 W171TPY0.1HA W171TCY0.1H0 W172TPY0.1HA W172TCY0.1H0
W173TPY0.1HA W173TCY0.1H0 W174TPY0.1HA W174TCY0.1H0 W175TPY0.1HA W175TCY0.1H0

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Wind Direction in Pei-Miao Seas of TPY0 at 2017

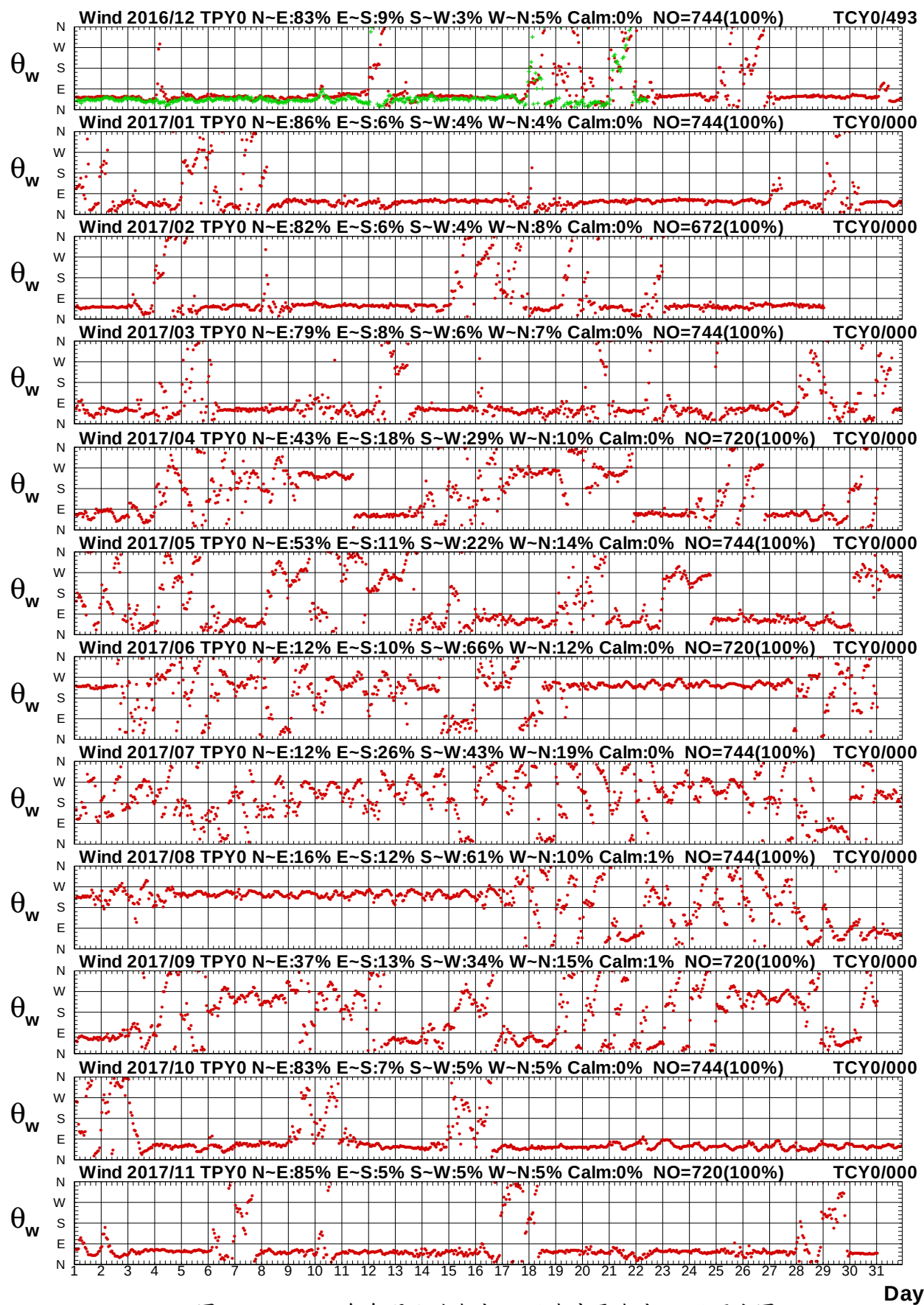


圖1.43b 2017年每月北苗海域 Y 站與中雲海域 Y 站風向圖

W16CTPY0.1HA W16CTCY0.1H0 W171TPY0.1HA W171TCY0.1H0 W172TPY0.1HA W172TCY0.1H0
W173TPY0.1HA W173TCY0.1H0 W174TPY0.1HA W174TCY0.1H0 W175TPY0.1HA W175TCY0.1H0

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Wind Speed in Pei-Miao Seas of TPY0 at 2017

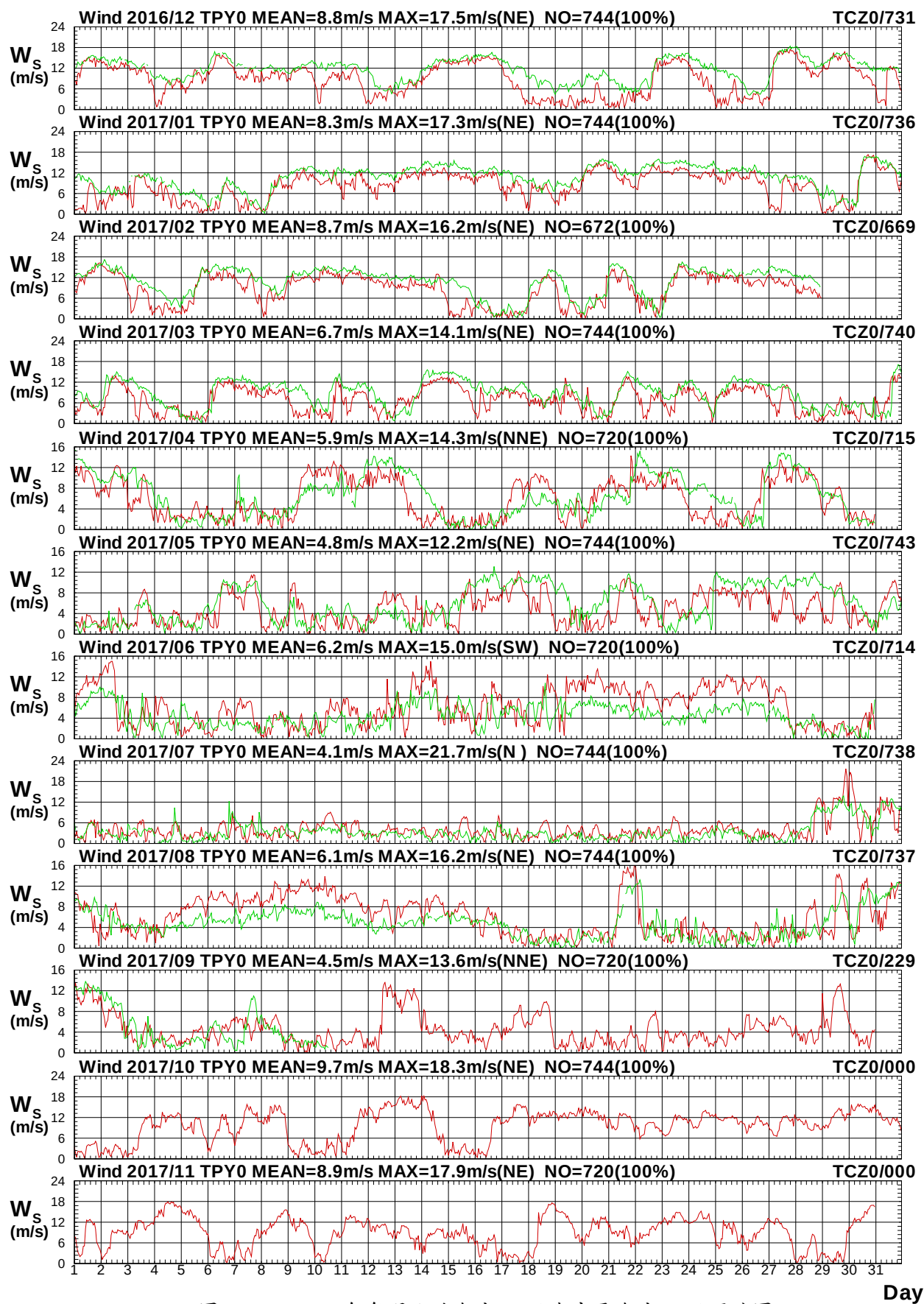


圖1.44a 2017年每月北苗海域 Y 站與中雲海域 Z 站風速圖

W16CTPY0.1HA W16CTCZ0.1H0 W171TPY0.1HA W171TCZ0.1H0 W172TPY0.1HA W172TCZ0.1H0
W173TPY0.1HA W173TCZ0.1H0 W174TPY0.1HA W174TCZ0.1H0 W175TPY0.1HA W175TCZ0.1H0

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Wind Direction in Pei-Miao Seas of TPY0 at 2017

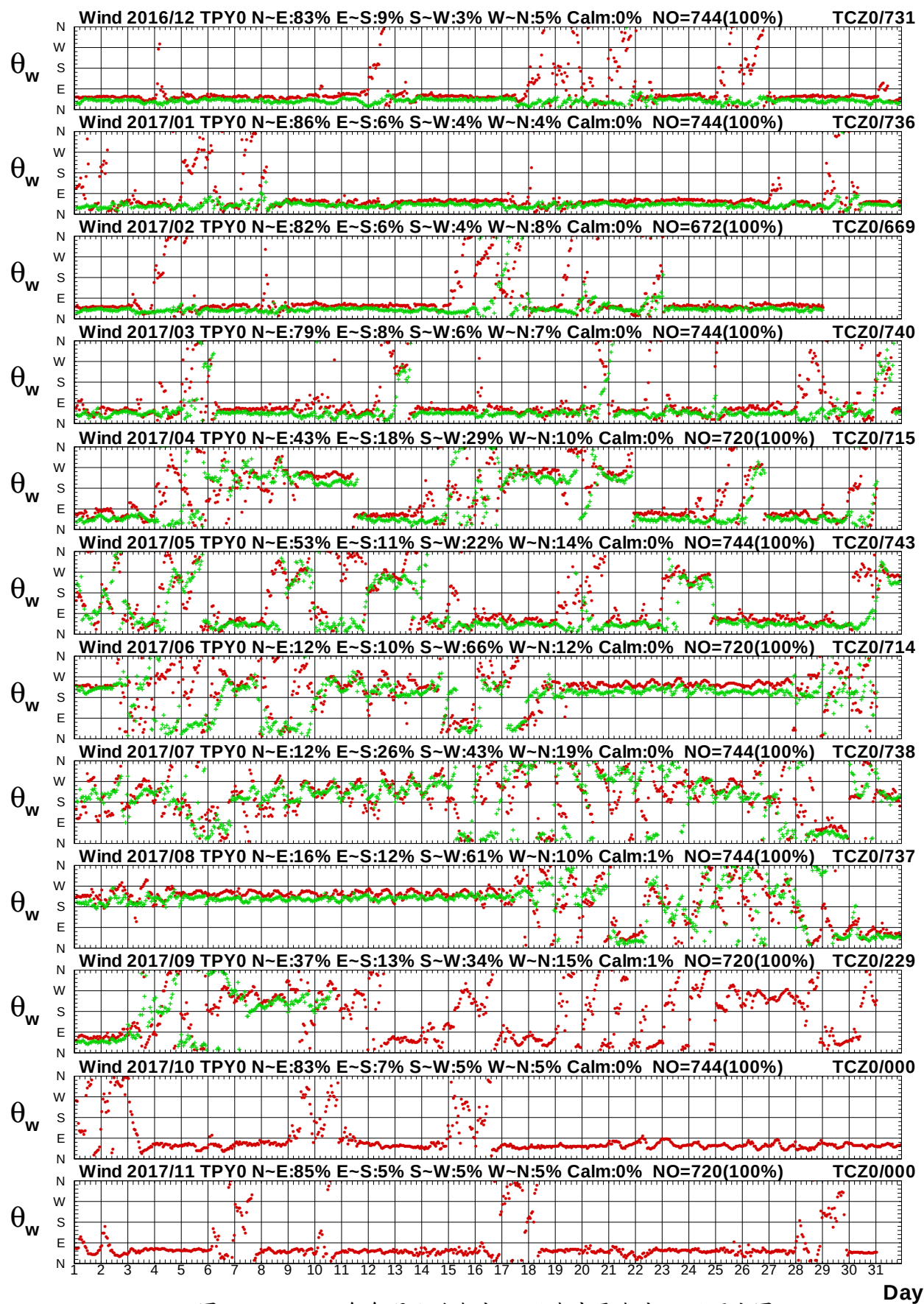


圖1.44b 2017年每月北苗海域 Y 站與中雲海域 Z 站風向圖

W16CTPY0.1HA W16CTCZ0.1H0 W171TPY0.1HA W171TCZ0.1H0 W172TPY0.1HA W172TCZ0.1H0
W173TPY0.1HA W173TCZ0.1H0 W174TPY0.1HA W174TCZ0.1H0 W175TPY0.1HA W175TCZ0.1H0

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Wind Speed in Pei-Miao Seas of TPY0 at 2017

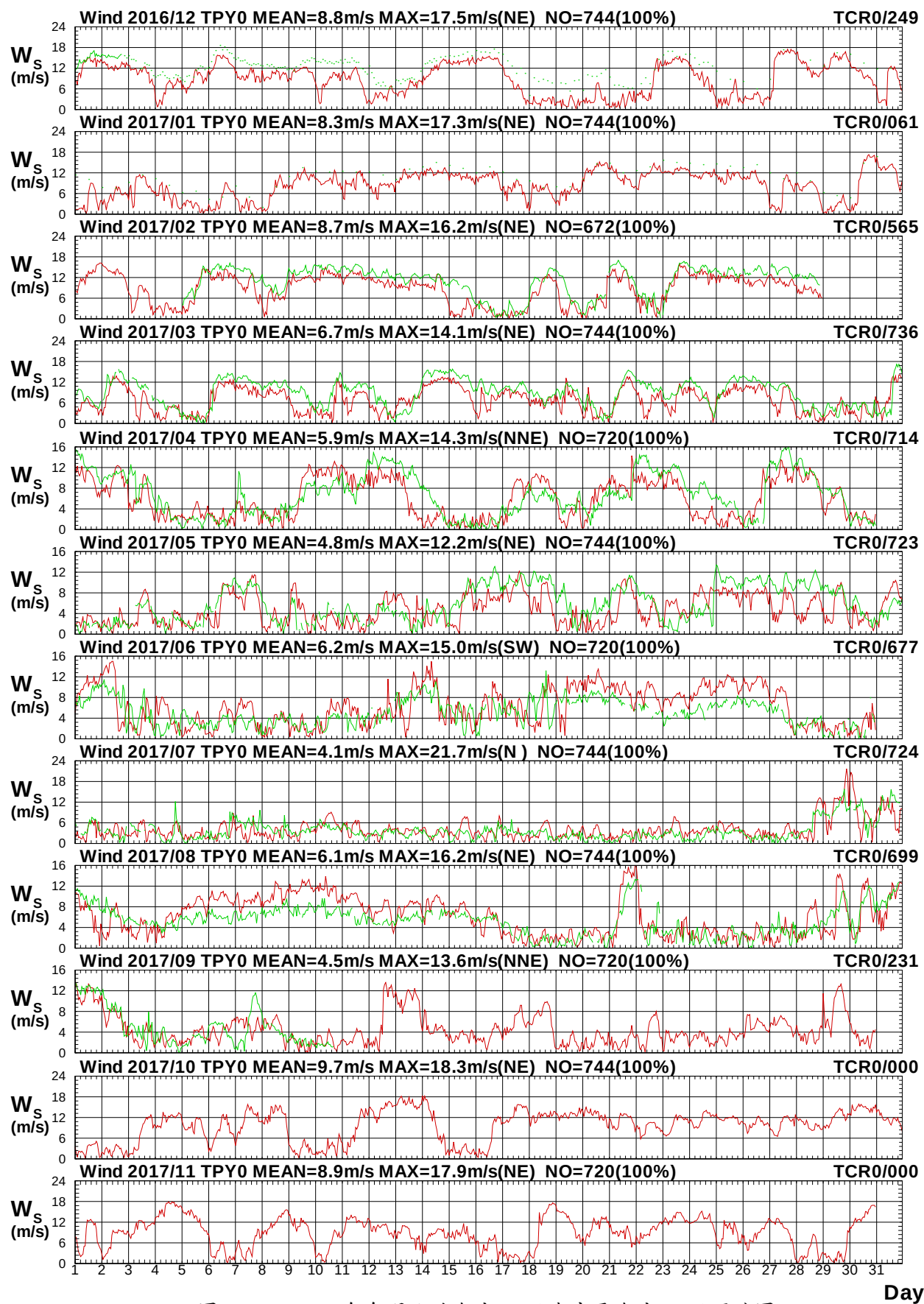


圖1.45a 2017年每月北苗海域 Y 站與中雲海域 R 站風速圖

W16CTPY0.1HA W16CTCR0.1H0 W171TPY0.1HA W171TCR0.1H0 W172TPY0.1HA W172TCR0.1H0
W173TPY0.1HA W173TCR0.1H0 W174TPY0.1HA W174TCR0.1H0 W175TPY0.1HA W175TCR0.1H0

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Wind Direction in Pei-Miao Seas of TPY0 at 2017

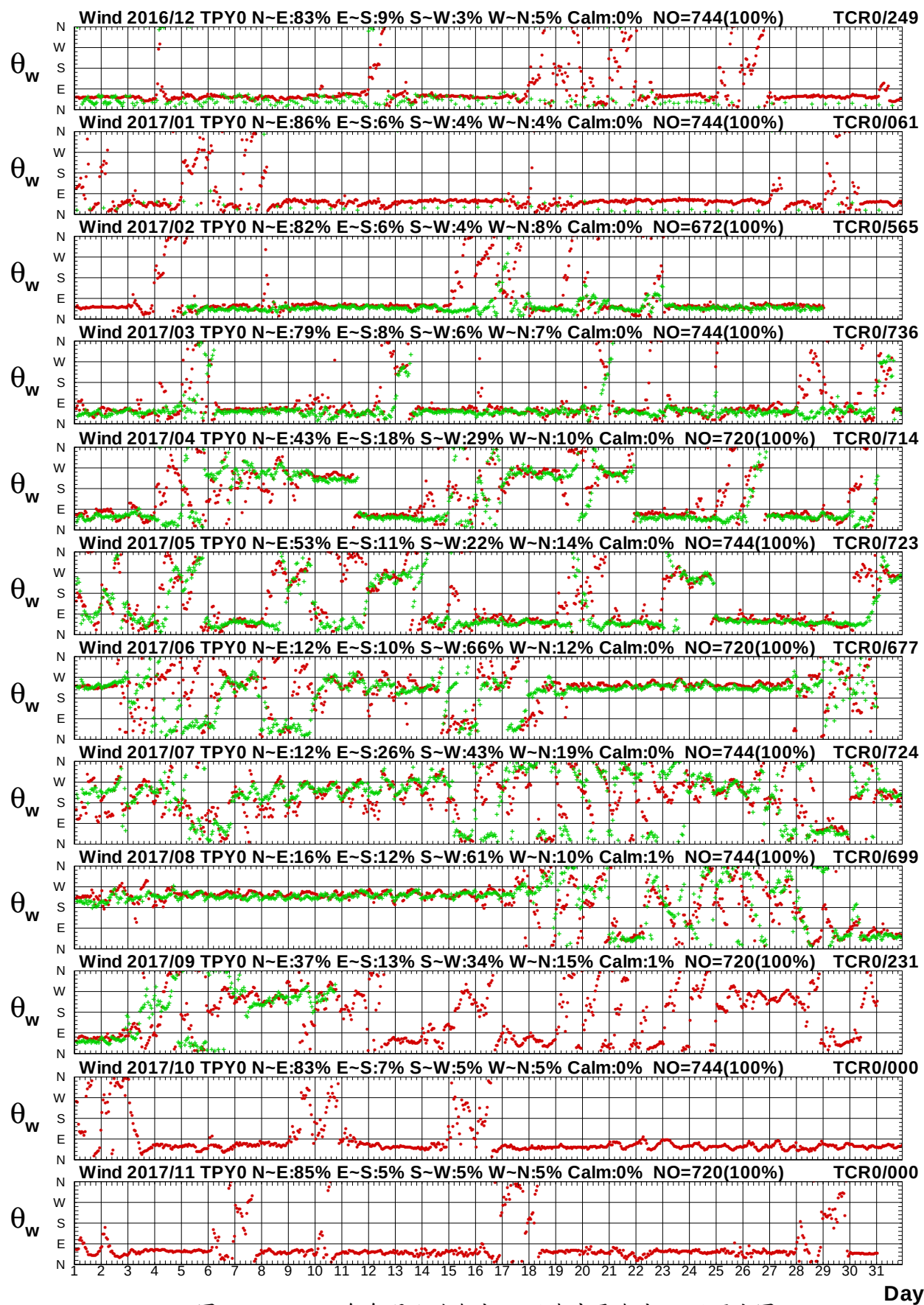


圖1.45b 2017年每月北苗海域 Y 站與中雲海域 R 站風向圖

W16CTPY0.1HA W16CTCR0.1H0 W171TPY0.1HA W171TCR0.1H0 W172TPY0.1HA W172TCR0.1H0
W173TPY0.1HA W173TCR0.1H0 W174TPY0.1HA W174TCR0.1H0 W175TPY0.1HA W175TCR0.1H0

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Wind Speed in Pei-Miao Seas of TPY0 at 2017

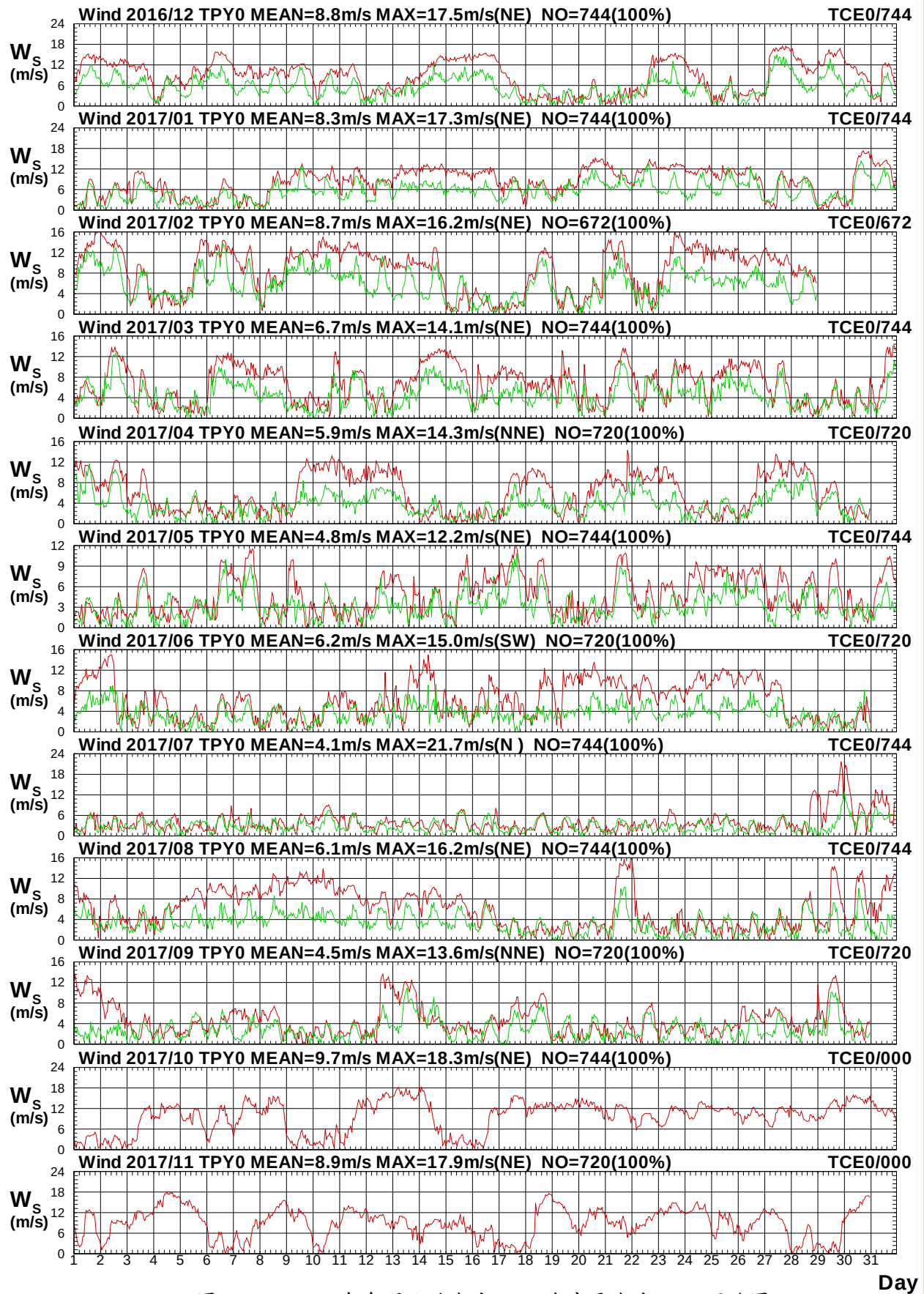


圖1.46a 2017年每月北苗海域 Y 站與中雲海域 E 站風速圖

W16CTPY0.1HA W16CTCE0.1H0 W171TPY0.1HA W171TCE0.1H0 W172TPY0.1HA W172TCE0.1H0
W173TPY0.1HA W173TCE0.1H0 W174TPY0.1HA W174TCE0.1H0 W175TPY0.1HA W175TCE0.1H0

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Wind Direction in Pei-Miao Seas of TPY0 at 2017

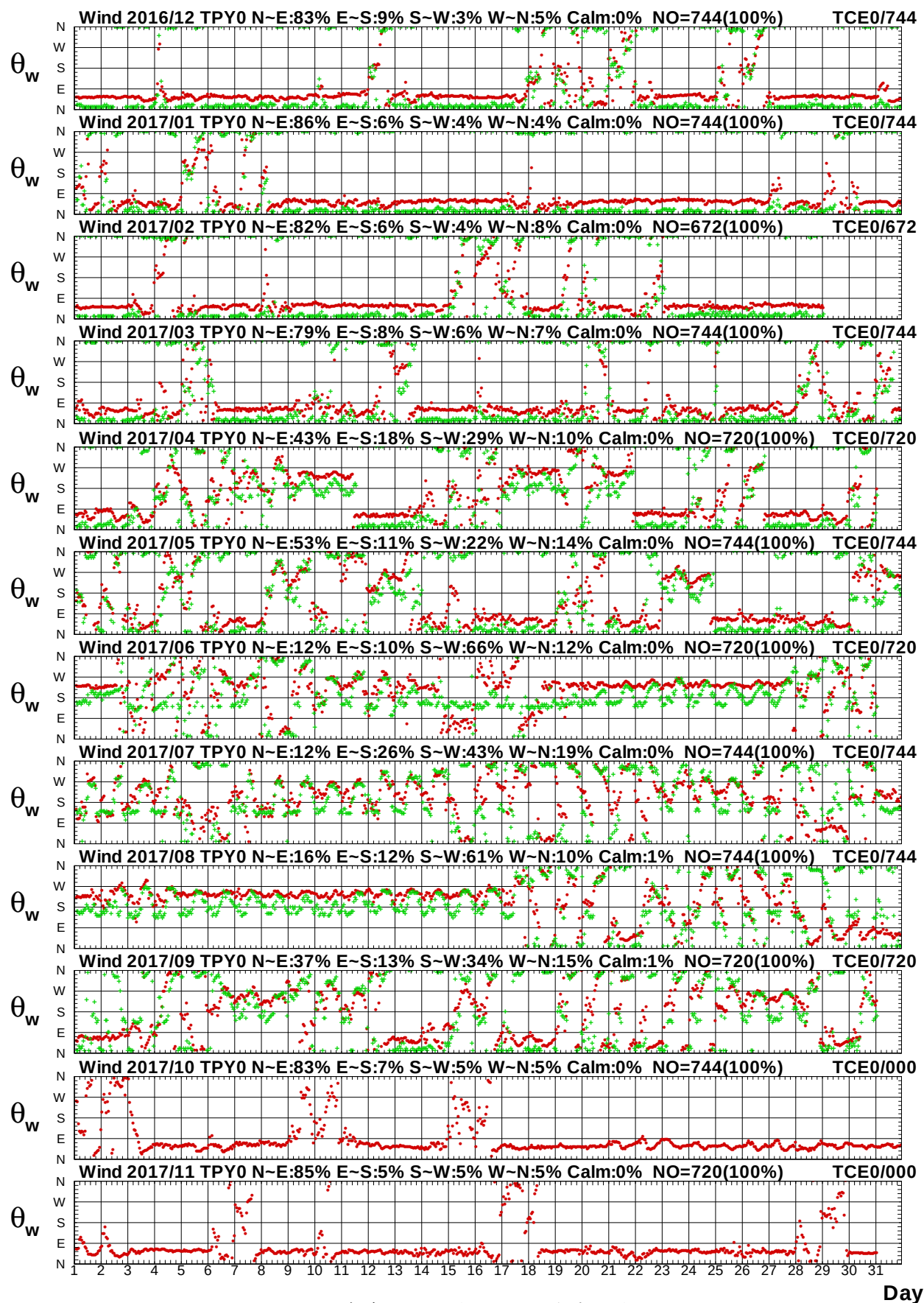


圖1.46b 2017年每月北苗海域 Y 站與中雲海域 E 站風向圖

W16CTPY0.1HA W16CTCE0.1H0 W171TPY0.1HA W171TCE0.1H0 W172TPY0.1HA W172TCE0.1H0
W173TPY0.1HA W173TCE0.1H0 W174TPY0.1HA W174TCE0.1H0 W175TPY0.1HA W175TCE0.1H0

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Wind Speed in Pei-Miao Seas of TPY0 at 2017

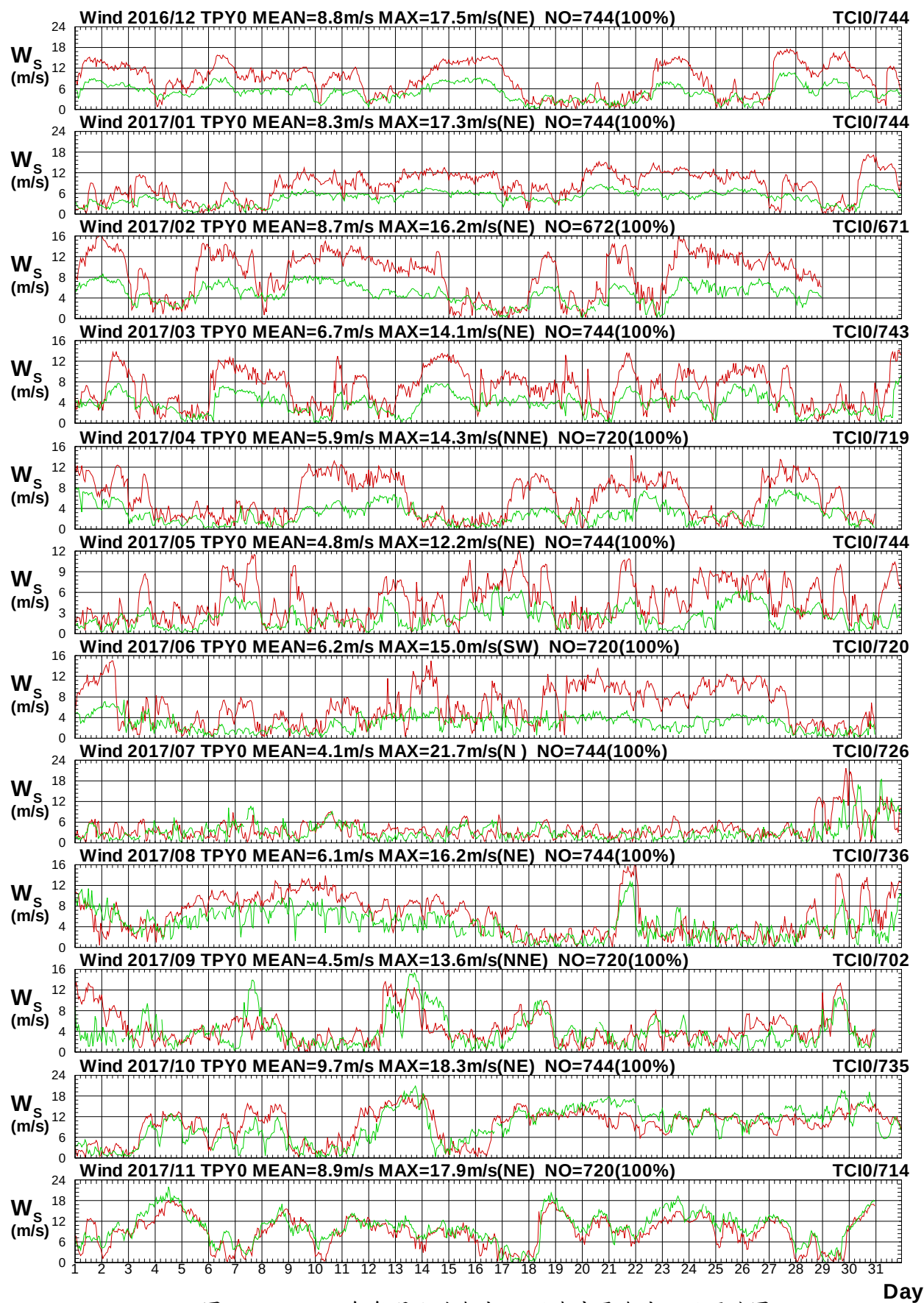


圖1.47a 2017年每月北苗海域 Y 站與中雲海域 I 站風速圖

W16CTPY0.1HA W16CTCI0.1H0 W171TPY0.1HA W171TCI0.1H0 W172TPY0.1HA W172TCI0.1H0
W173TPY0.1HA W173TCI0.1H0 W174TPY0.1HA W174TCI0.1H0 W175TPY0.1HA W175TCI0.1H0

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Wind Direction in Pei-Miao Seas of TPY0 at 2017

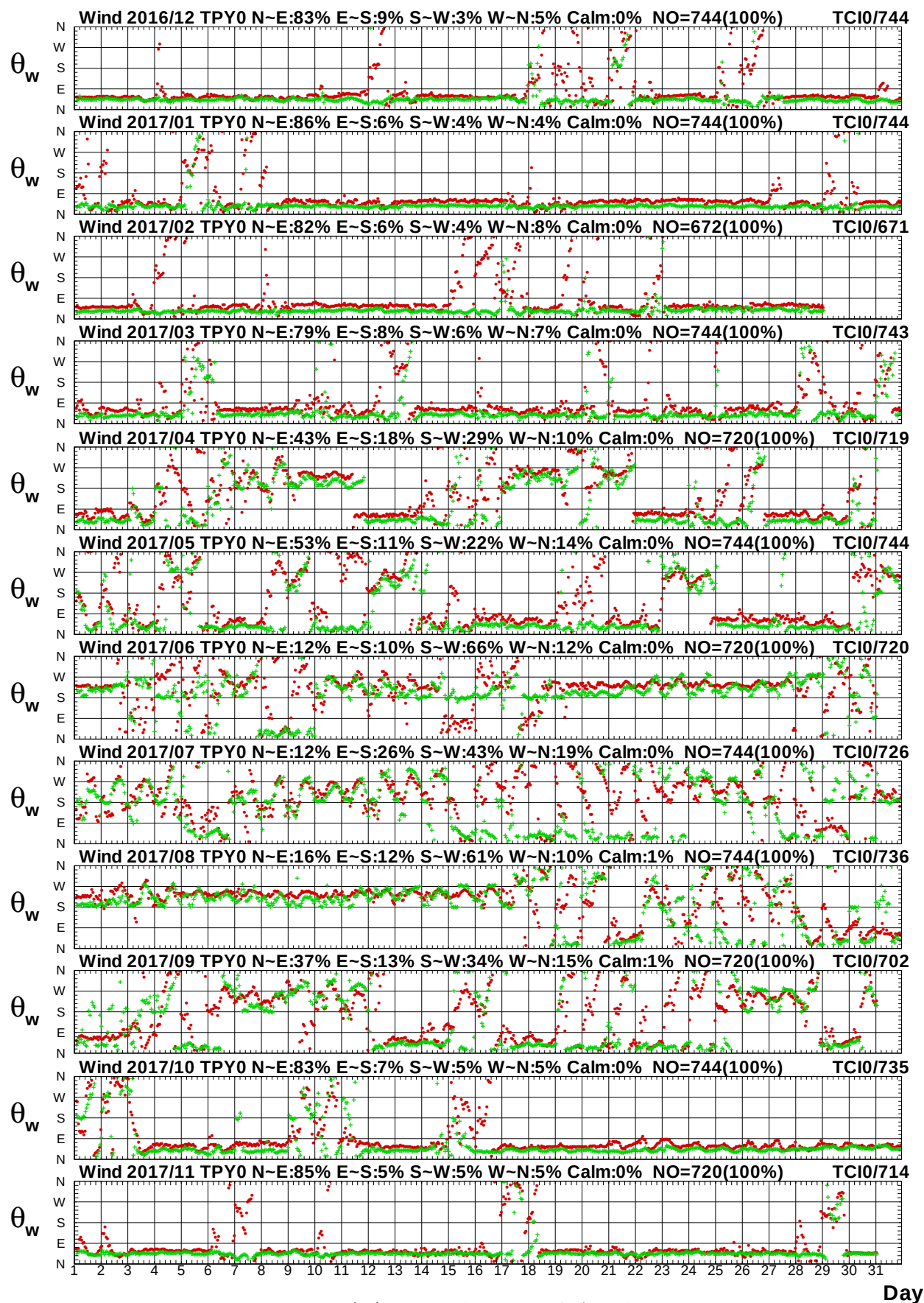


圖1.47b 2017年每月北苗海域 Y 站與中雲海域 I 站風向圖

W16CTPY0.1HA W16CTCIO.1H0 W171TPY0.1HA W171TCIO.1H0 W172TPY0.1HA W172TCIO.1H0
W173TPY0.1HA W173TCIO.1H0 W174TPY0.1HA W174TCIO.1H0 W175TPY0.1HA W175TCIO.1H0

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第二章 2017 年北苗海域觀測波浪資料

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 O 章圖 VP1)。本年報取經檢核及補遺之 X 站及 Y 站資料作為主要測站。

本波浪年報資料處理之圖表包括：

1. 2017 年各觀測站每月觀測波浪資料修補前記錄表。
2. 2017 年主要測站每月觀測波浪資料修補後記錄表。
3. 2017 年主要測站修補前後每月(季)及整年示性波高週期及波向重要統計量統計表。
4. 2017 年主要測站修補前後每月波浪歷線比較圖。
5. 2017 年主要測站之觀測波浪與次要觀測站(或其他觀測站)每月波浪歷線比較圖。

表 2.1a 2017 年每月北苗海域修補前各測站觀測波浪資料紀錄統計表

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
年月/測站	Y	X						I
2016/12 月	725(97.4%)	744(100%)	*	*	*	*	*	*
2017/ 1 月	728(97.8%)	744(100%)	*	*	*	*	*	*
2017/ 2 月	651(96.9%)	672(100%)	*	*	*	*	*	*
2017/ 3 月	728(97.8%)	744(100%)	*	*	*	*	*	*
2017/ 4 月	712(98.9%)	720(100%)	*	*	*	*	*	*
2017/ 5 月	742(99.7%)	81(10.9%)	*	*	*	*	*	*
2017/ 6 月	712(98.9%)	461(64.0%)	*	*	*	*	*	*
2017/ 7 月	741(99.6%)	743(99.9%)	*	*	*	*	*	*
2017/ 8 月	742(99.7%)	744(100%)	*	*	*	*	*	*
2017/ 9 月	720(100%)	111(15.4%)	*	*	*	*	*	*
2017/10 月	726(97.6%)	*	*	*	*	*	*	*
2017/11 月	718(99.7%)	*	*	*	*	*	*	*
2017/冬季	2104(97.4%)	2160(100%)	*	*	*	*	*	*
2017/春季	2182(98.8%)	1545(70.0%)	*	*	*	*	*	*
2017/夏季	2195(99.4%)	1948(88.2%)	*	*	*	*	*	*
2017/秋季	2164(99.1%)	111(5.1%)	*	*	*	*	*	*
2017/整年	8645(98.7%)	5764(65.8%)	*	*	*	*	*	*
起始年月	2016/12	2016/12	*	*	*	*	*	*
結束年月	2017/11	2017/09	*	*	*	*	*	*

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表 2.1b 2017年每月北苗海域修補後各測站波浪資料統計表

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
年月/測站	Y							I
2016/12 月	744(100%)	*	*	*	*	*	*	*
2017/ 1 月	744(100%)	*	*	*	*	*	*	*
2017/ 2 月	672(100%)	*	*	*	*	*	*	*
2017/ 3 月	744(100%)	*	*	*	*	*	*	*
2017/ 4 月	720(100%)	*	*	*	*	*	*	*
2017/ 5 月	744(100%)	*	*	*	*	*	*	*
2017/ 6 月	720(100%)	*	*	*	*	*	*	*
2017/ 7 月	744(100%)	*	*	*	*	*	*	*
2017/ 8 月	744(100%)	*	*	*	*	*	*	*
2017/ 9 月	720(100%)	*	*	*	*	*	*	*
2017/10 月	744(100%)	*	*	*	*	*	*	*
2017/11 月	720(100%)	*	*	*	*	*	*	*
2017/冬季	2160(100%)	*	*	*	*	*	*	*
2017/春季	2208(100%)	*	*	*	*	*	*	*
2017/夏季	2208(100%)	*	*	*	*	*	*	*
2017/秋季	2184(100%)	*	*	*	*	*	*	*
2017/整年	8760(100%)	*	*	*	*	*	*	*
起始年月	2016/12	*	*	*	*	*	*	*
結束年月	2017/11	*	*	*	*	*	*	*
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表2.2a 2017年北苗海域主要測站1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/%
2016/12	100%	1.75	5.3/10.3/WNW	7.4	10.8	.3	42.5	50.1	7.1	14.7	51.7	32.3	1.3	100%	47.7	5.4	8.7	38.2	NNE/18%
2017/01	100%	1.67	5.0/10.1/NW	7.1	10.2	1.7	40.9	53.4	4.0	17.7	57.3	23.7	1.3	100%	52.2	4.2	7.1	36.5	NNE/19%
2017/02	100%	1.67	4.0/ 9.1/NE	7.4	10.7	5.4	38.7	50.3	5.7	17.9	48.2	31.7	2.2	100%	56.7	3.4	5.1	34.8	NNE/19%
2017/03	100%	1.27	4.5/ 9.4/WNW	6.6	10.5	10.1	60.1	27.3	2.6	33.9	45.4	19.5	1.2	100%	63.8	5.5	4.7	25.9	NE /21%
2017/04	100%	.89	3.2/ 8.0/ENE	6.3	9.9	37.8	44.3	17.4	.6	42.9	42.6	14.4	.0	100%	37.1	3.9	23.5	35.6	W /16%
2017/05	11%	.47	1.1/ 4.6/NNW	5.8	9.3	67.9	32.1	.0	.0	59.3	28.4	12.3	.0	11%	38.3	1.2	18.5	42.0	NNW/15%
2017/06	64%	.87	2.4/ 7.1/WSW	5.4	8.9	23.4	69.6	6.9	.0	69.4	27.5	3.0	.0	64%	17.4	2.8	48.2	31.7	WSW/28%
2017/07	100%	.45	3.4/ 6.6/ENE	5.2	13.4	79.0	19.5	1.2	.3	67.0	25.8	4.0	3.1	100%	10.2	.5	41.9	47.4	W /43%
2017/08	100%	.72	2.1/ 6.8/WSW	5.5	11.8	34.9	59.8	5.2	.0	65.5	25.4	7.0	2.2	100%	17.6	1.3	54.7	26.3	WSW/34%
2017/09	15%	1.16	2.7/ 7.5/S	7.2	9.0	2.7	72.1	25.2	.0	3.6	84.7	11.7	.0	15%	56.8	24.3	7.2	11.7	E /30%
2017/10	0																		
2017/11	0																		
2017/冬	100%	1.70	5.3/10.3/WNW	7.3	10.8	2.4	40.7	51.3	5.6	16.7	52.5	29.1	1.6	100%	52.1	4.4	7.0	36.5	NNE/19%
2017/春	70%	1.05	4.5/ 9.4/WNW	6.4	10.5	26.0	51.3	21.2	1.5	39.4	43.2	16.8	.6	70%	50.0	4.5	14.2	31.3	NE /16%
2017/夏	88%	.65	3.4/ 6.6/ENE	5.4	13.4	49.0	46.8	4.1	.1	67.0	26.1	4.9	2.0	88%	14.7	1.4	48.3	35.6	W /34%
2017/秋	5%	1.16	2.7/ 7.5/S	7.2	9.0	2.7	72.1	25.2	.0	3.6	84.7	11.7	.0	5%	56.8	24.3	7.2	11.7	E /30%
2017/年	66%	1.16	5.3/10.3/WNW	6.4	13.4	24.5	46.2	26.8	2.5	39.5	41.7	17.3	1.4	66%	39.0	3.8	22.9	34.3	W /15%

表2.2b 2017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 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/%
2016/12	100%	1.75	5.3/10.3/WNW	7.4	10.8	.3	42.5	50.1	7.1	14.7	51.7	32.3	1.3	100%	47.7	5.4	8.7	38.2	NNE/18%
2017/01	100%	1.67	5.0/10.1/NW	7.1	10.2	1.7	40.9	53.4	4.0	17.7	57.3	23.7	1.3	100%	52.3	4.2	7.1	36.4	NNE/19%
2017/02	100%	1.67	4.0/ 9.1/NE	7.4	10.7	5.4	38.7	50.3	5.7	17.9	48.2	31.7	2.2	100%	56.7	3.4	5.1	34.8	NNE/19%
2017/03	100%	1.27	4.5/ 9.4/WNW	6.6	10.5	10.1	60.1	27.3	2.6	33.9	45.4	19.5	1.2	100%	63.8	5.5	4.7	25.9	NE /21%
2017/04	100%	.89	3.2/ 8.0/ENE	6.3	9.9	37.8	44.3	17.4	.6	42.9	42.6	14.4	.0	100%	37.1	3.9	23.5	35.6	W /16%
2017/05	100%	.65	2.1/ 7.1/NNE	5.8	9.3	35.5	63.2	1.3	.0	55.5	43.1	1.3	.0	100%	76.5	.1	2.3	21.1	NNE/46%
2017/06	100%	.79	2.4/ 7.1/WSW	5.6	8.9	26.8	67.6	5.6	.0	59.6	37.9	2.5	.0	100%	11.3	1.8	37.1	49.9	W /30%
2017/07	100%	.45	3.4/ 6.6/ENE	5.2	13.4	79.0	19.5	1.2	.3	67.1	25.8	4.0	3.1	100%	10.2	.5	41.9	47.3	W /43%
2017/08	100%	.72	2.1/ 6.8/WSW	5.5	11.8	34.9	59.8	5.2	.0	65.5	25.4	7.0	2.2	100%	17.6	1.3	54.7	26.3	WSW/34%
2017/09	100%	.99	3.0/ 9.5/N	6.9	10.3	19.3	57.9	22.6	.1	31.7	41.8	24.2	2.4	100%	41.1	3.8	7.8	47.4	N /49%
2017/10	100%	2.99	8.3/ 9.5/SSW	8.6	10.1	2.4	12.0	35.9	49.7	1.6	31.0	54.4	12.9	100%	3.4	.7	13.2	82.8	NNW/72%
2017/11	100%	1.87	5.1/11.1/N	7.4	11.3	.3	29.2	66.0	4.6	3.3	73.8	21.9	1.0	100%	59.0	.0	.0	41.0	N /94%
2017/冬	100%	1.70	5.3/10.3/WNW	7.3	10.8	2.4	40.7	51.3	5.6	16.7	52.5	29.1	1.6	100%	52.1	4.4	7.0	36.5	NNE/19%
2017/春	100%	.94	4.5/ 9.4/WNW	6.2	10.5	27.7	56.0	15.3	1.0	44.1	43.8	11.7	.4	100%	59.4	3.2	10.0	27.4	NNE/25%
2017/夏	100%	.65	3.4/ 6.6/ENE	5.4	13.4	47.1	48.8	4.0	.1	64.1	29.6	4.5	1.8	100%	13.0	1.2	44.7	41.1	W /34%
2017/秋	100%	1.96	8.3/ 9.5/SSW	7.6	11.3	7.3	32.8	41.4	18.5	12.1	48.7	33.7	5.5	100%	34.2	1.5	7.1	57.3	N /52%
2017/年	100%	1.31	8.3/ 9.5/SSW	6.6	13.4	21.3	44.6	27.8	6.3	34.4	43.6	19.7	2.3	100%	39.6	2.5	17.3	40.6	N /22%

表2.3a 2017年北苗海域主要測站2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/%
2016/12	97%	1.62	4.3/ 7.0/N	5.3	7.0	1.8	43.2	52.6	2.5	88.6	11.4	.0	.0	97%	85.7	.0	.0	14.3	N /65%
2017/01	98%	1.51	4.1/ 7.0/N	5.2	7.4	3.8	43.4	51.6	1.1	95.5	4.5	.0	.0	98%	91.9	.0	.1	8.0	N /76%
2017/02	97%	1.56	3.4/ 6.2/N	5.2	6.9	8.3	37.6	51.9	2.2	90.8	9.2	.0	.0	97%	88.3	.0	.0	11.7	N /64%
2017/03	98%	1.07	3.7/ 6.9/N	4.8	7.1	13.0	67.6	18.8	.5	95.2	4.8	.0	.0	98%	86.4	.0	1.2	12.4	N /55%
2017/04	99%	.74	2.7/ 6.5/N	4.4	6.8	40.2	52.1	7.7	.0	97.2	2.8	.0	.0	99%	54.1	.0	19.2	26.7	N /33%
2017/05	100%	.57	1.8/ 5.2/N	4.2	5.6	47.7	52.0	.3	.0	100.0	.0	.0	.0	100%	73.0	.0	6.2	20.8	N /52%
2017/06	99%	.68	2.1/ 4.9/WSW	4.3	6.4	34.7	61.4	3.9	.0	98.0	2.0	.0	.0	99%	29.4	.0	34.4	36.2	WSW/31%
2017/07	100%	.41	3.4/ 5.9/N	4.1	6.2	85.8	11.9	2.2	.1	99.7	.3	.0	.0	100%	14.3	.0	33.7	52.0	WSW/31%
2017/08	100%	.64	2.0/ 5.0/NNE	4.3	6.9	38.3	59.3	2.4	.0	97.8	2.2	.0	.0	100%	18.2	.0	30.2	51.6	W /37%
2017/09	100%	.77	2.5/ 6.2/N	4.8	7.6	41.1	48.8	10.1	.0	86.4	13.6	.0	.0	100%	59.0	.0	8.9	32.1	N /45%
2017/10	98%	1.78	4.8/ 7.9/SSW	5.5	8.3	5.0	30.0	60.7	4.3	78.9	20.5	.6	.0	98%	88.3	.0	2.8	9.0	N /74%
2017/11	100%	1.67	4.5/ 7.4/N	5.3	7.5	.7	42.8	53.3	3.2	90.7	9.3	.0	.0	100%	82.3	.0	.0	17.7	N /77%
2017/冬	97%	1.56	4.3/ 7.0/N	5.2	7.4	4.5	41.5	52.0	1.9	91.6	8.4	.0	.0	97%	88.6	.0	.0	11.3	N /68%
2017/春	99%	.79	3.7/ 6.9/N	4.5	7.1	33.7	57.2	8.9	.2	97.5	2.5	.0	.0	99%	71.3	.0	8.8	19.9	N /47%
2017/夏	99%	.57	3.4/ 5.9/N	4.2	6.9	53.2	44.0	2.8	.0	98.5	1.5	.0	.0	99%	20.5	.0	32.8	46.7	WSW/31%
2017/秋	99%	1.41	4.8/ 7.9/SSW	5.2	8.3	15.6	40.5	41.5	2.5	85.3	14.5	.2	.0	99%	76.6	.0	3.9	19.5	N /65%
2017/年	99%	1.08	4.8/ 7.9/SSW	4.8	8.3	27.0	45.9	26.0	1.1	93.3	6.7	.0	.0	99%	63.9	.0	11.5	24.5	N /48%

表2.3b 2017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 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/%
2016/12	100%	1.63	4.3/ 7.0/N	5.3	7.0	1.7	42.7	53.0	2.6	88.6	11.4	.0	.0	100%	84.5	.0	.1	15.3	N /64%
2017/01	100%	1.52	4.1/ 7.0/N	5.2	7.4	3.8	43.3	51.5	1.5	94.9	5.1	.0	.0	100%	91.0	.0	.1	8.9	N /75%
2017/02	100%	1.56	3.4/ 6.2/N	5.2	6.9	8.0	38.4	51.3	2.2	90.9	9.1	.0	.0	100%	86.5	.0	.4	13.1	N /63%
2017/03	100%	1.06	3.7/ 6.9/N	4.8	7.1	12.9	68.0	18.5	.5	95.3	4.7	.0	.0	100%	85.8	.0	1.2	13.0	N /55%
2017/04	100%	.74	2.7/ 6.5/N	4.4	6.8	39.9	52.5	7.6	.0	97.2	2.8	.0	.0	100%	54.3	.0	19.0	26.7	N /33%
2017/05	100%	.57	1.8/ 5.2/N	4.2	5.6	47.7	52.0	.3	.0	100.0	.0	.0	.0	100%	73.1	.0	6.2	20.7	N /52%
2017/06	100%	.68	2.1/ 4.9/WSW	4.3	6.4	34.6	61.5	3.9	.0	98.1	1.9	.0	.0	100%	29.0	.0	34.7	36.3	WSW/31%
2017/07	100%	.41	3.4/ 5.9/N	4.1	6.2	85.8	12.0	2.2	.1	99.7	.3	.0	.0	100%	14.2	.0	33.9	51.9	WSW/31%
2017/08	100%	.64	2.0/ 5.0/NNE	4.3	6.9	38.2	59.3	2.6	.0	97.7	2.3	.0	.0	100%	18.1	.0	30.4	51.5	W /36%
2017/09	100%	.77	2.5/ 6.2/N	4.8	7.6	41.1	48.8	10.1	.0	86.4	13.6	.0	.0	100%	59.0	.0	8.9	32.1	N /45%
2017/10	100%	1.77	4.8/ 7.9/SSW	5.5	8.3	4.8	30.5	60.2	4.4	79.0	20.4	.5	.0	100%	88.0	.0	2.7	9.3	N /75%
2017/11	100%	1.66	4.5/ 7.4/N	5.3	7.5	.7	42.9	53.2	3.2	90.7	9.3	.0	.0	100%	82.4	.0	.0	17.6	N /77%
2017/冬	100%	1.56	4.3/ 7.0/N	5.2	7.4	4.4	42.5	51.3	1.9	91.6	8.4	.0	.0	100%	87.4	.0	.2	12.4	N /68%
2017/春	100%	.79	3.7/ 6.9/N	4.5	7.1	33.4	57.6	8.8	.2	97.5	2.5	.0	.0	100%	71.2	.0	8.7	20.1	N /47%
2017/夏	100%	.58	3.4/ 5.9/N	4.2	6.9	53.0	44.1	2.9	.0	98.5	1.5	.0	.0	100%	20.4	.0	33.0	46.6	WSW/31%
2017/秋	100%	1.40	4.8/ 7.9/SSW	5.2	8.3	15.4	41.0	41.1	2.5	85.4	14.4	.2	.0	100%	76.6	.0	3.8	19.6	N /66%
2017/年	100%	1.08	4.8/ 7.9/SSW	4.8	8.3	26.7	46.3	25.8	1.1	93.3	6.7	.0	.0	100%	63.7	.0	11.5	24.7	N /48%

Wave H_s in Pei-Miao Seas of TPX0 at 2017

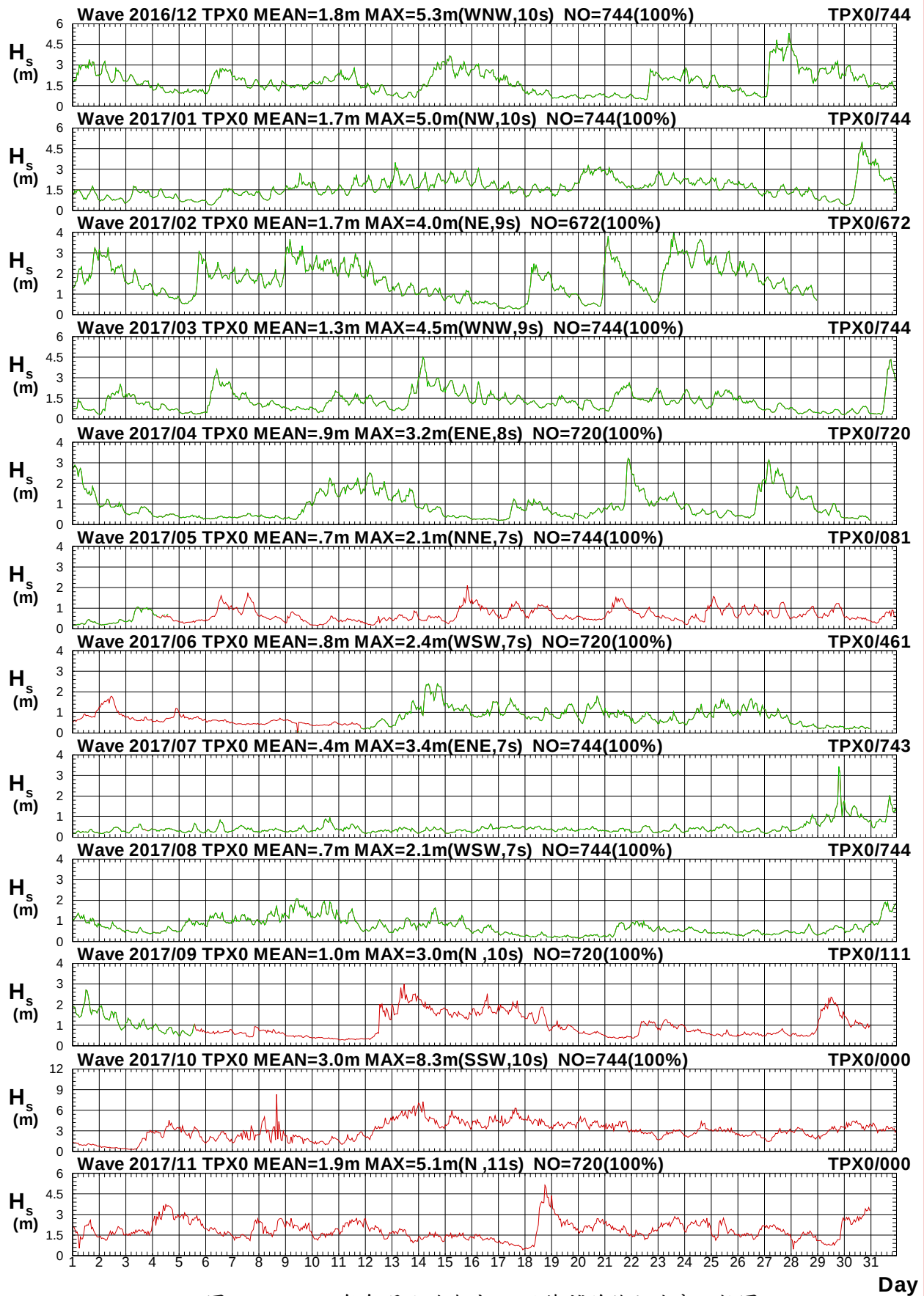


圖2.1a 2017年每月北苗海域 X 站修補前後之波高比較圖

V16CTPX0.1HA V16CTPX0.1H0 V171TPX0.1HA V171TPX0.1H0 V172TPX0.1HA V172TPX0.1H0
V173TPX0.1HA V173TPX0.1H0 V174TPX0.1HA V174TPX0.1H0 V175TPX0.1HA V175TPX0.1H0

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Wave T_p in Pei-Miao Seas of TPX0 at 2017

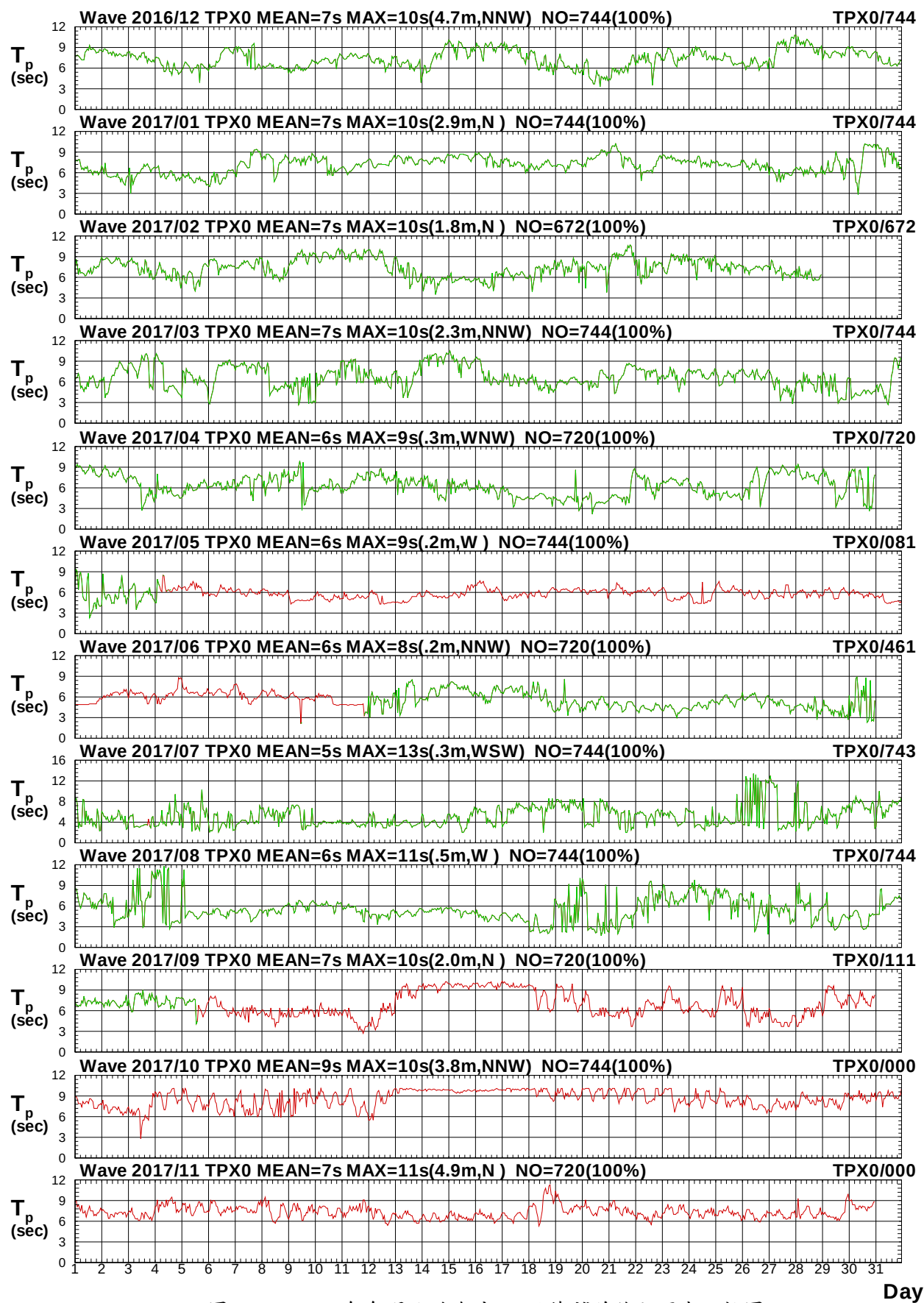


圖2.1b 2017年每月北苗海域 X 站修補前後之週期比較圖

V16CTPX0.1HA V16CTPX0.1H0 V171TPX0.1HA V171TPX0.1H0 V172TPX0.1HA V172TPX0.1H0
V173TPX0.1HA V173TPX0.1H0 V174TPX0.1HA V174TPX0.1H0 V175TPX0.1HA V175TPX0.1H0

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Wave Direction in Pei-Miao Seas of TPX0 at 2017

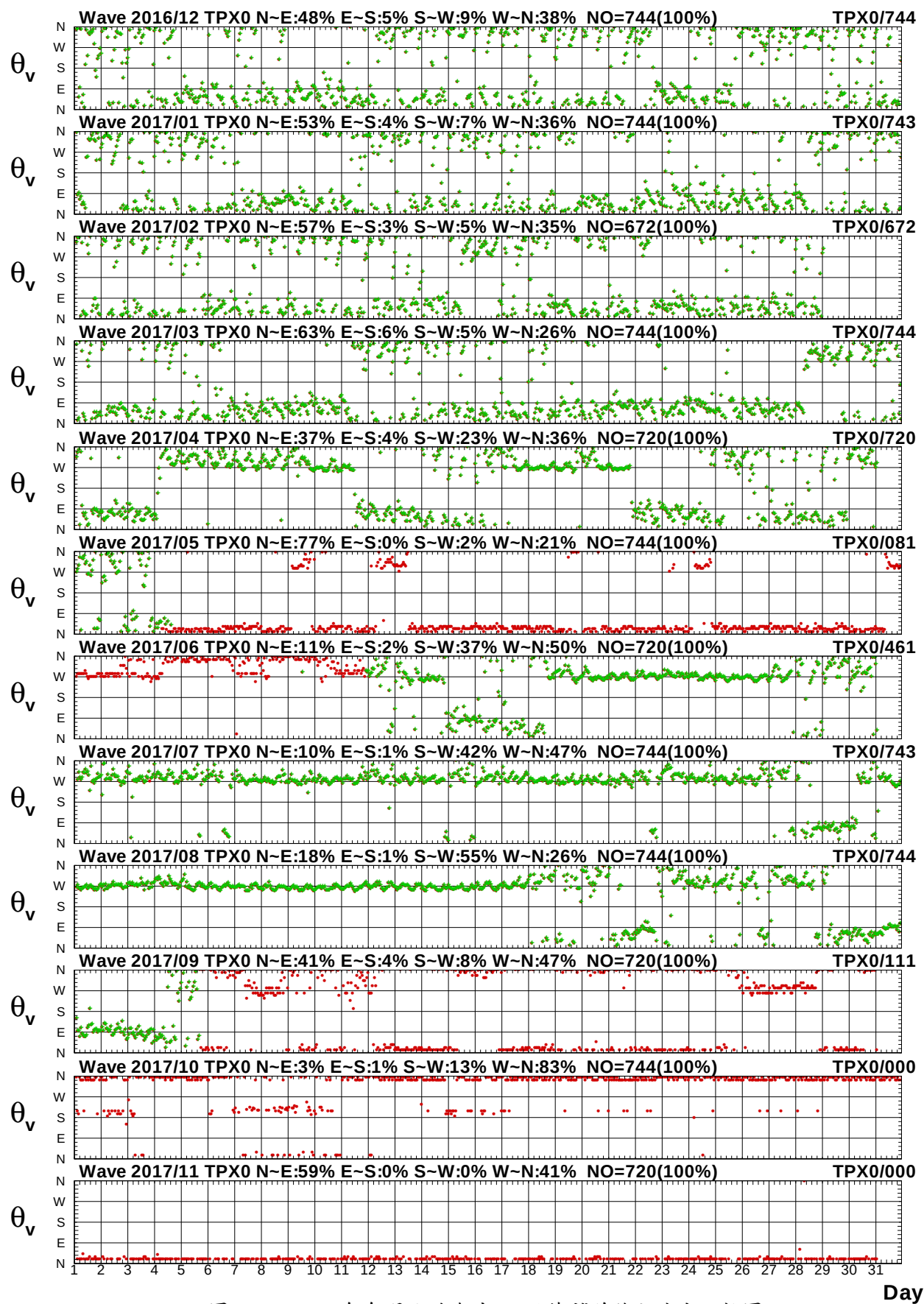


圖2.1c 2017年每月北苗海域 X 站修補前後之波向比較圖

V16CTPX0.1HA V16CTPX0.1H0 V171TPX0.1HA V171TPX0.1H0 V172TPX0.1HA V172TPX0.1H0
V173TPX0.1HA V173TPX0.1H0 V174TPX0.1HA V174TPX0.1H0 V175TPX0.1HA V175TPX0.1H0

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Wave H_s in Pei-Miao Seas of TPX0 at 2017

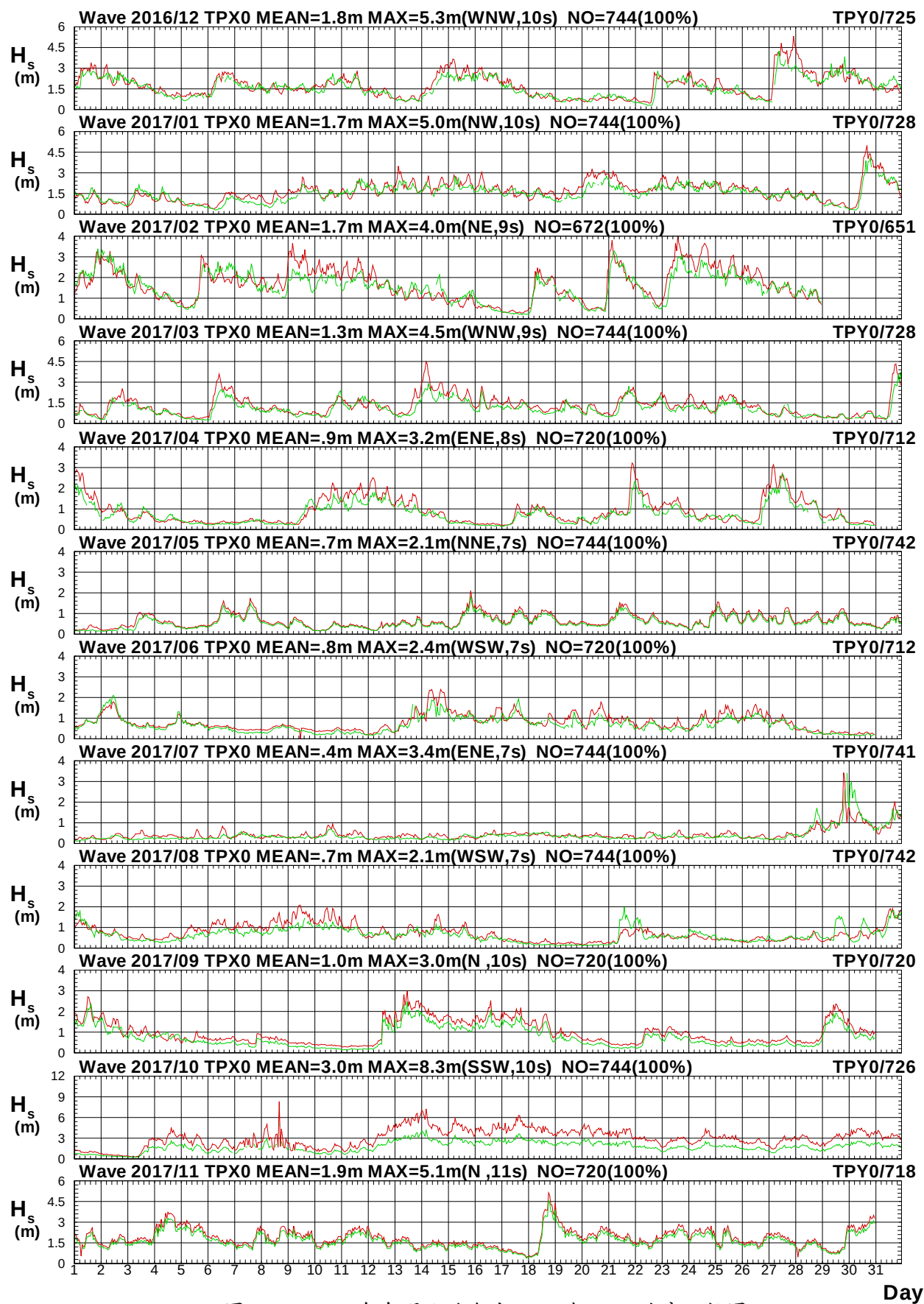


圖2.2a 2017年每月北苗海域 X 站與 Y 站波高比較圖

V16CTPX0.1HA V16CTPY0.1H0 V171TPX0.1HA V171TPY0.1H0 V172TPX0.1HA V172TPY0.1H0
V173TPX0.1HA V173TPY0.1H0 V174TPX0.1HA V174TPY0.1H0 V175TPX0.1HA V175TPY0.1H0

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Wave T_p in Pei-Miao Seas of TPX0 at 2017

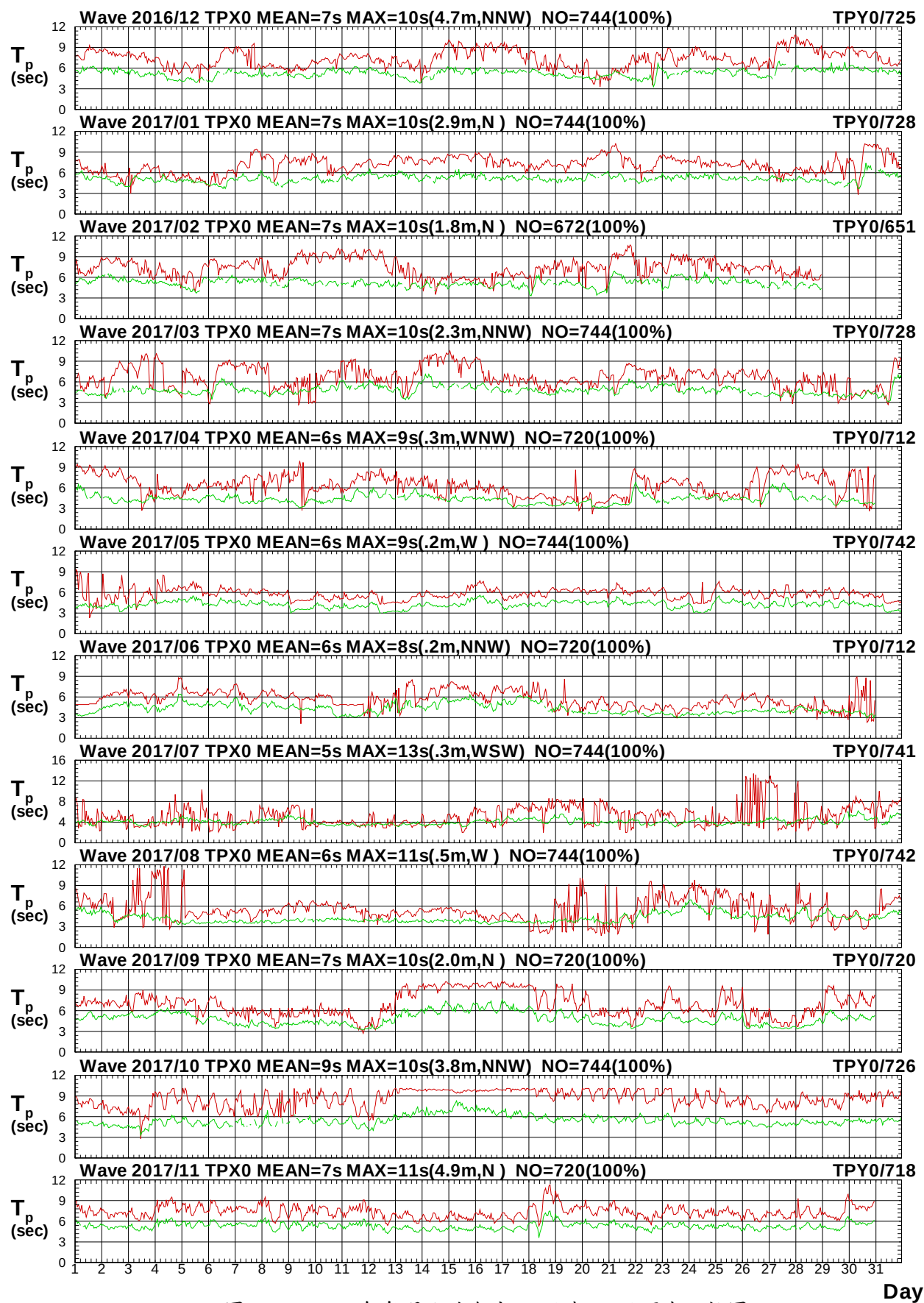


圖2.2b 2017年每月北苗海域 X 站與 Y 站週期比較圖

V16CTPX0.1HA V16CTPY0.1H0 V171TPX0.1HA V171TPY0.1H0 V172TPX0.1HA V172TPY0.1H0
V173TPX0.1HA V173TPY0.1H0 V174TPX0.1HA V174TPY0.1H0 V175TPX0.1HA V175TPY0.1H0

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Wave Direction in Pei-Miao Seas of TPX0 at 2017

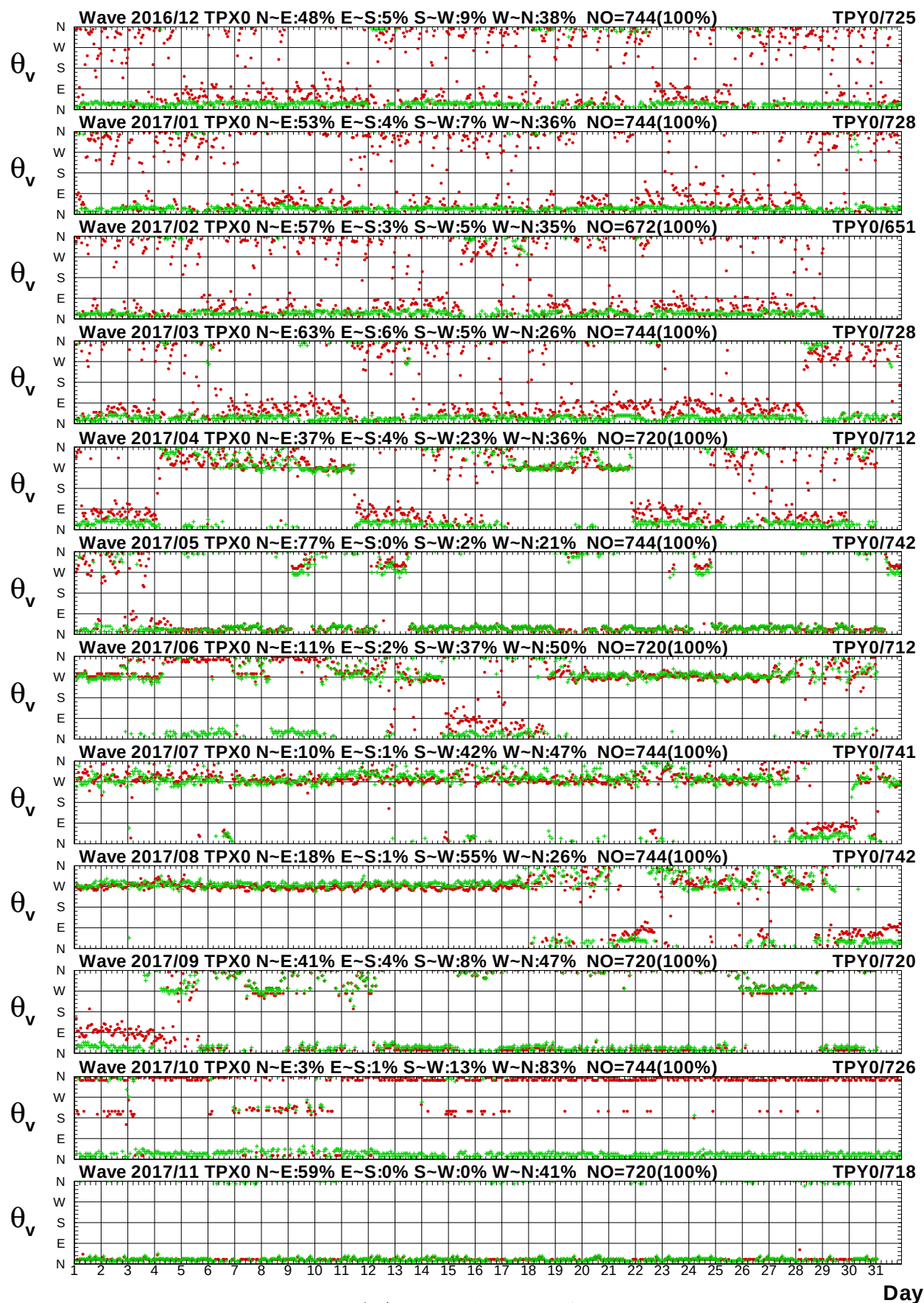


圖2.2c 2017年每月北苗海域 X 站與 Y 站波向比較圖

V16CTPX0.1HA V16CTPY0.1H0 V171TPX0.1HA V171TPY0.1H0 V172TPX0.1HA V172TPY0.1H0
V173TPX0.1HA V173TPY0.1H0 V174TPX0.1HA V174TPY0.1H0 V175TPX0.1HA V175TPY0.1H0

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Wave H_s in Pei-Miao Seas of TPX0 at 2017

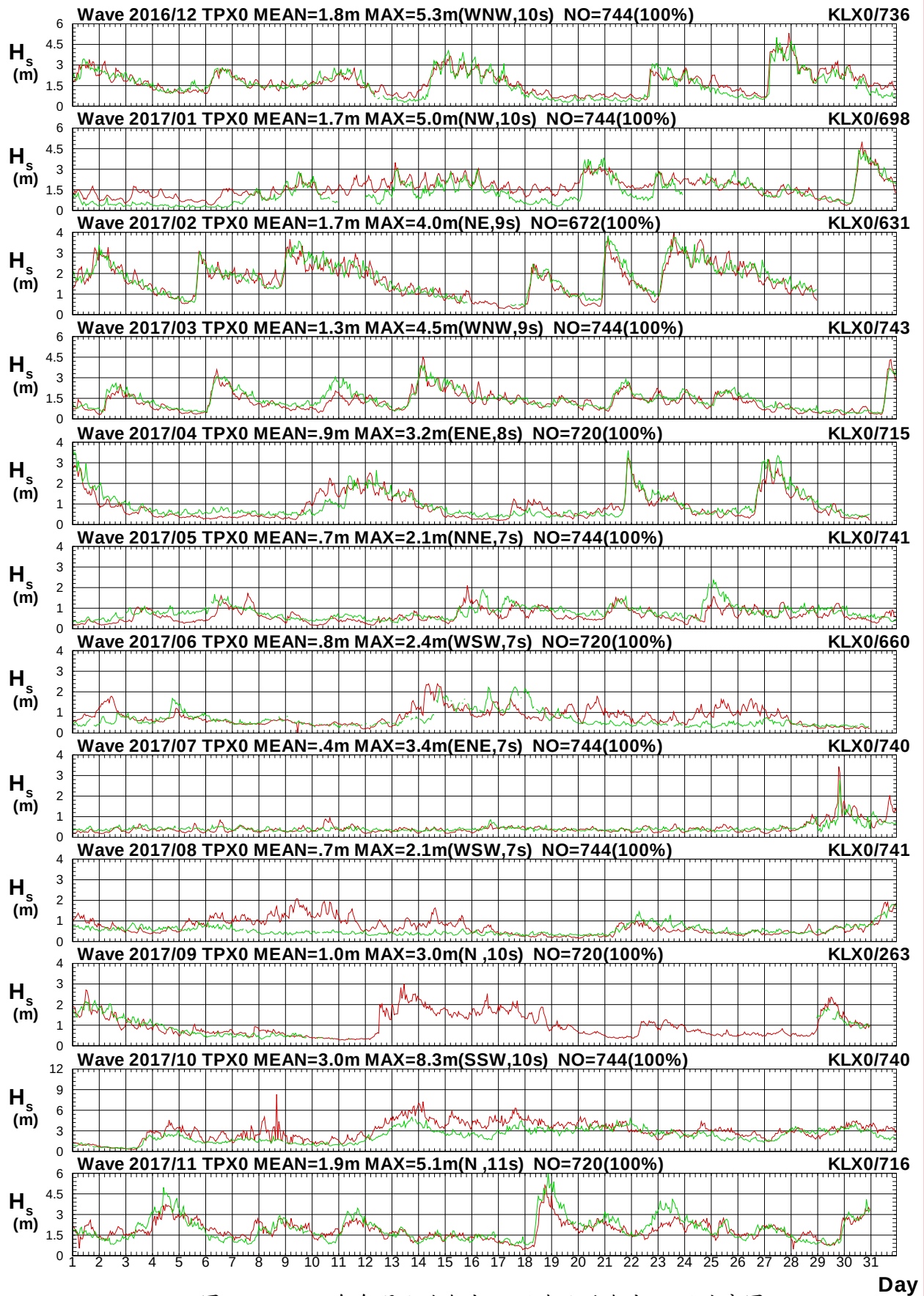


圖2.3a 2017年每月北苗海域 X 站與北端海域 X 站波高圖

V16CTPX0.1HA V16CKLX0.1H0 V171TPX0.1HA V171KLX0.1H0 V172TPX0.1HA V172KLX0.1H0
V173TPX0.1HA V173KLX0.1H0 V174TPX0.1HA V174KLX0.1H0 V175TPX0.1HA V175KLX0.1H0

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Wave T_p in Pei-Miao Seas of TPX0 at 2017

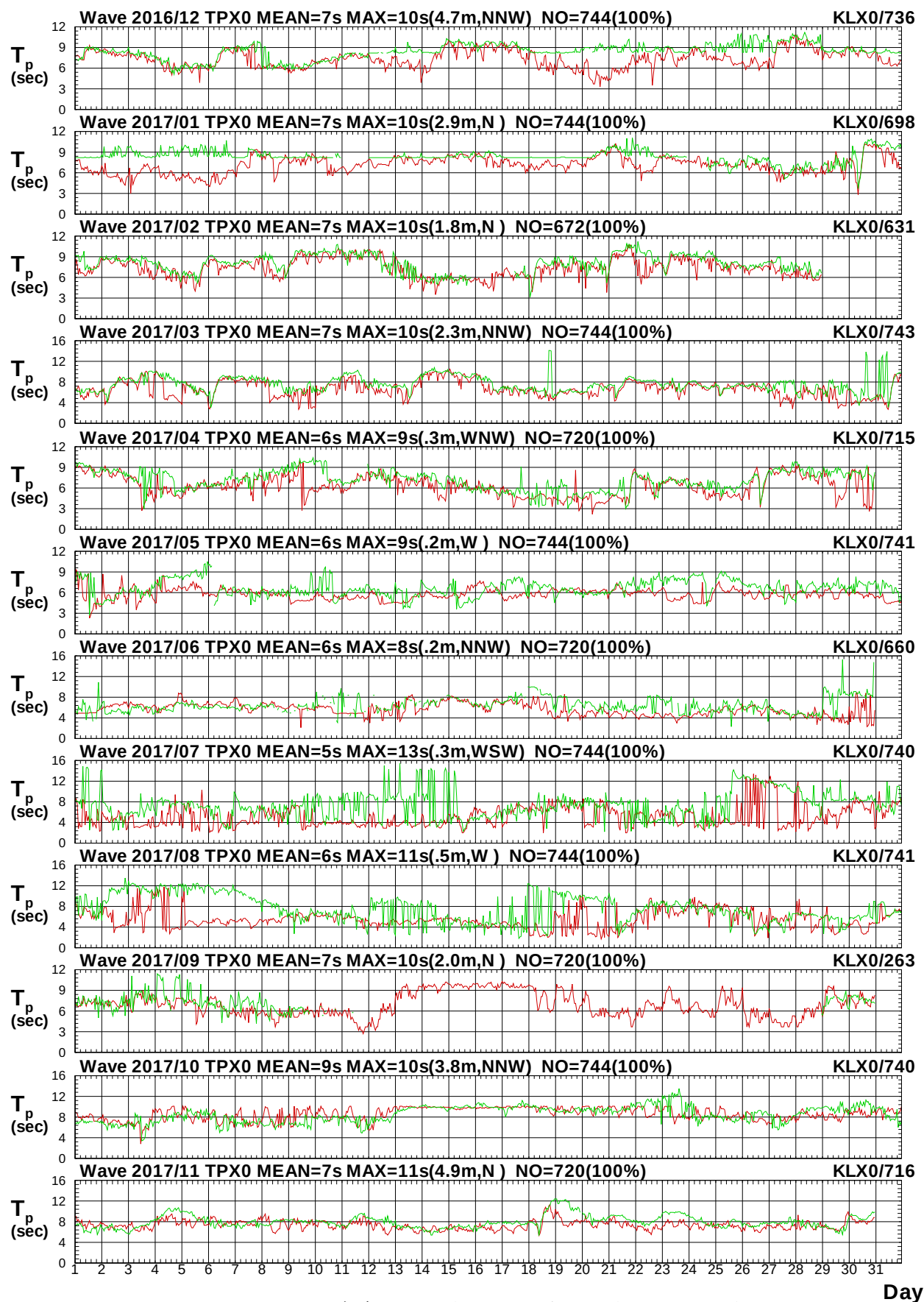


圖2.3b 2017年每月北苗海域 X 站與北端海域 X 站週期圖

V16CTPX0.1HA V16CKLX0.1H0 V171TPX0.1HA V171KLX0.1H0 V172TPX0.1HA V172KLX0.1H0
V173TPX0.1HA V173KLX0.1H0 V174TPX0.1HA V174KLX0.1H0 V175TPX0.1HA V175KLX0.1H0

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Wave Direction in Pei-Miao Seas of TPX0 at 2017

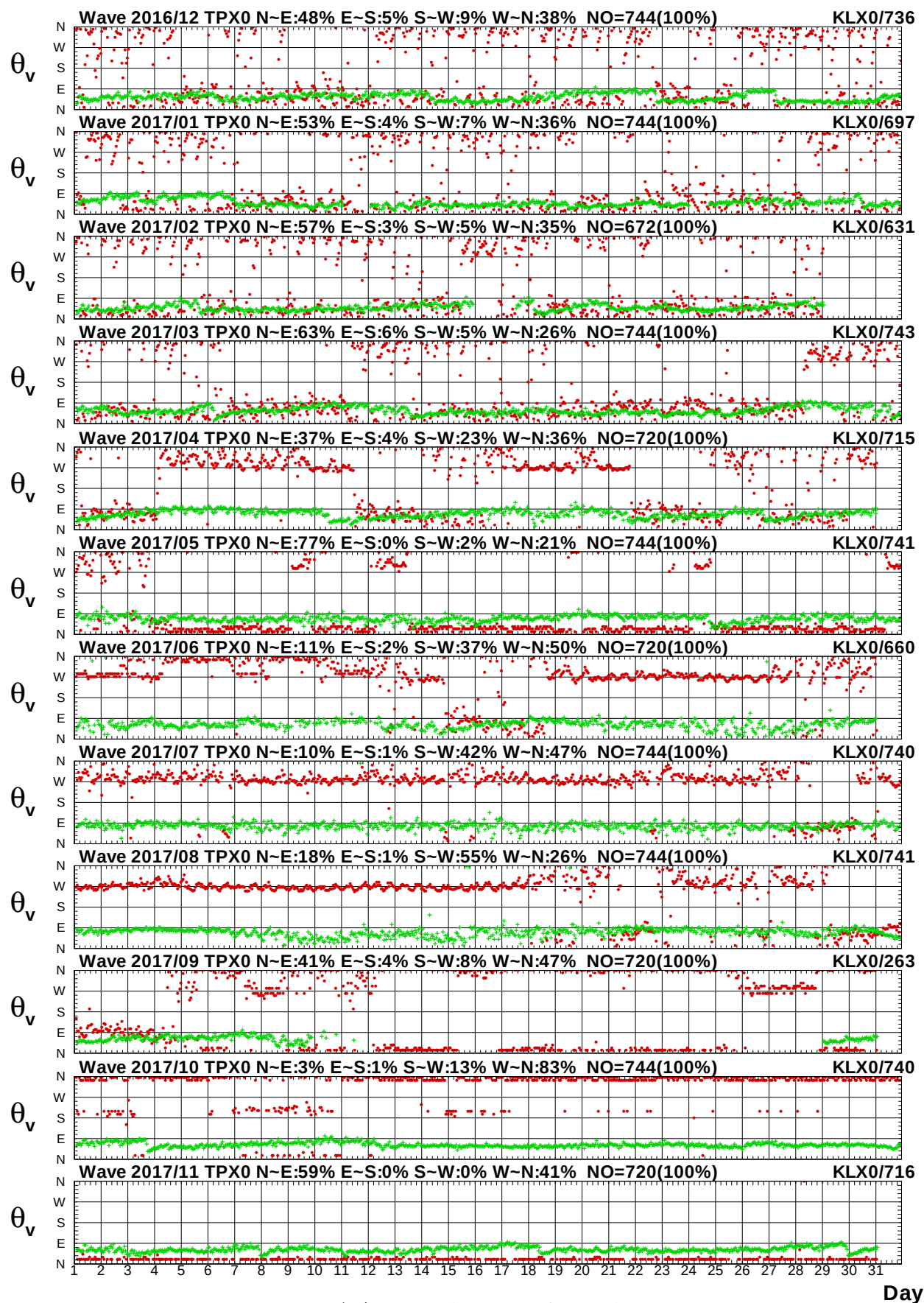


圖2.3c 2017年每月北苗海域 X 站與北端海域 X 站波向圖

V16CTPX0.1HA V16CKLX0.1H0 V171TPX0.1HA V171KLX0.1H0 V172TPX0.1HA V172KLX0.1H0
V173TPX0.1HA V173KLX0.1H0 V174TPX0.1HA V174KLX0.1H0 V175TPX0.1HA V175KLX0.1H0

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Wave H_s in Pei-Miao Seas of TPX0 at 2017

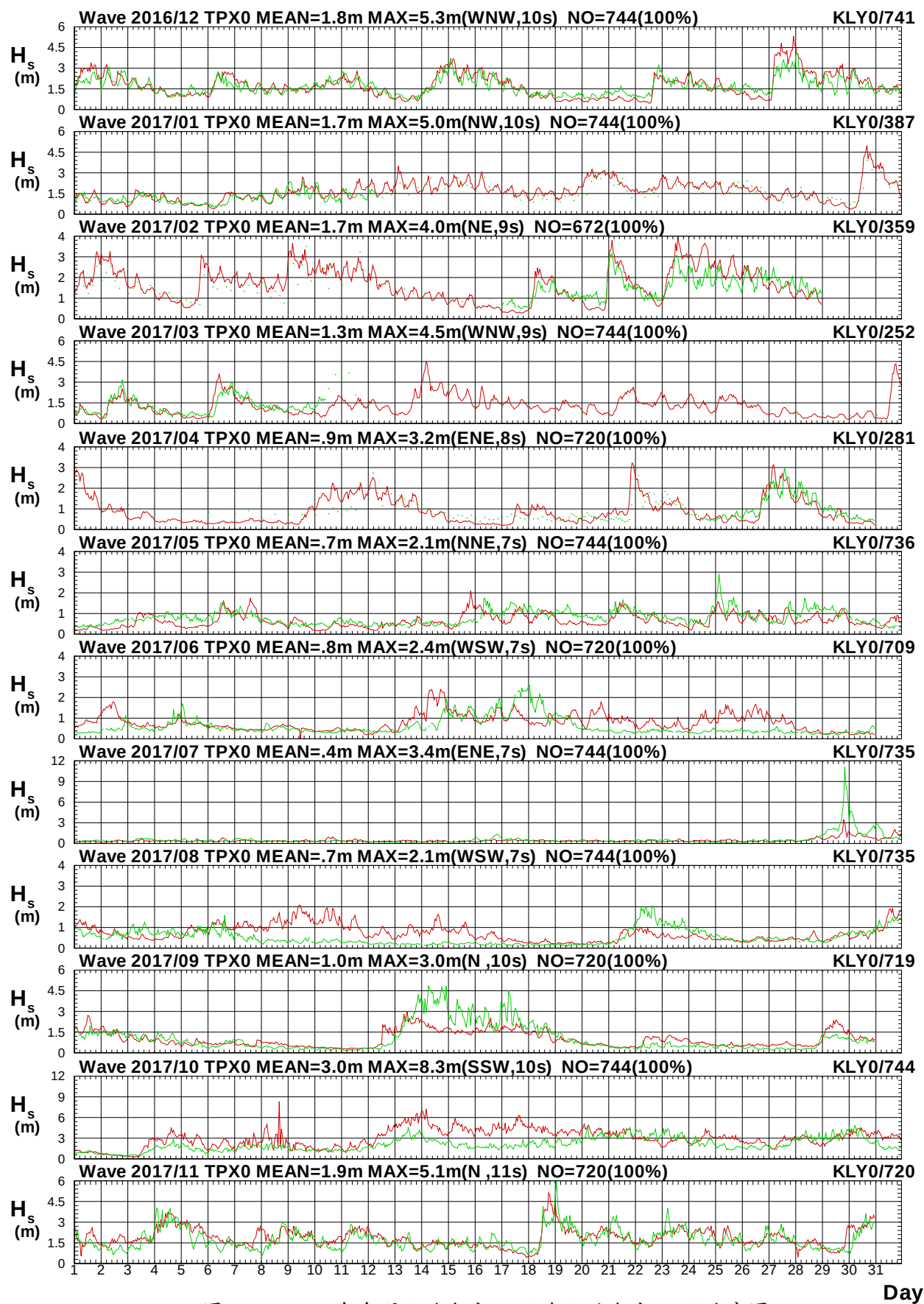


圖2.4a 2017年每月北苗海域 X 站與北端海域 Y 站波高圖

V16CTPX0.1HA V16CKLY0.1H0 V171TPX0.1HA V171KLY0.1H0 V172TPX0.1HA V172KLY0.1H0
V173TPX0.1HA V173KLY0.1H0 V174TPX0.1HA V174KLY0.1H0 V175TPX0.1HA V175KLY0.1H0

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Wave T_p in Pei-Miao Seas of TPX0 at 2017

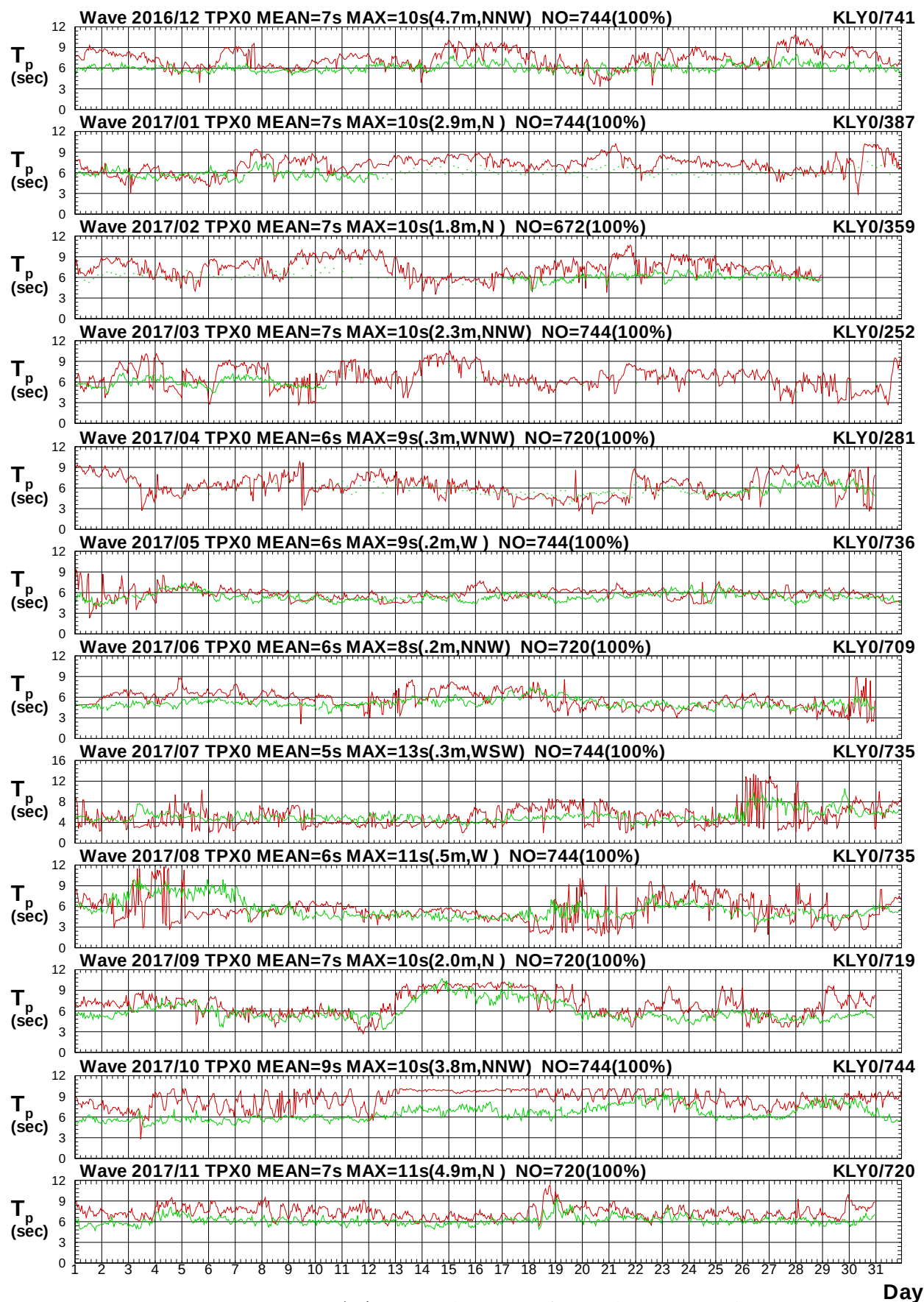


圖2.4b 2017年每月北苗海域 X 站與北端海域 Y 站週期圖

V16CTPX0.1HA V16CKLY0.1H0 V171TPX0.1HA V171KLY0.1H0 V172TPX0.1HA V172KLY0.1H0
V173TPX0.1HA V173KLY0.1H0 V174TPX0.1HA V174KLY0.1H0 V175TPX0.1HA V175KLY0.1H0

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Wave Direction in Pei-Miao Seas of TPX0 at 2017

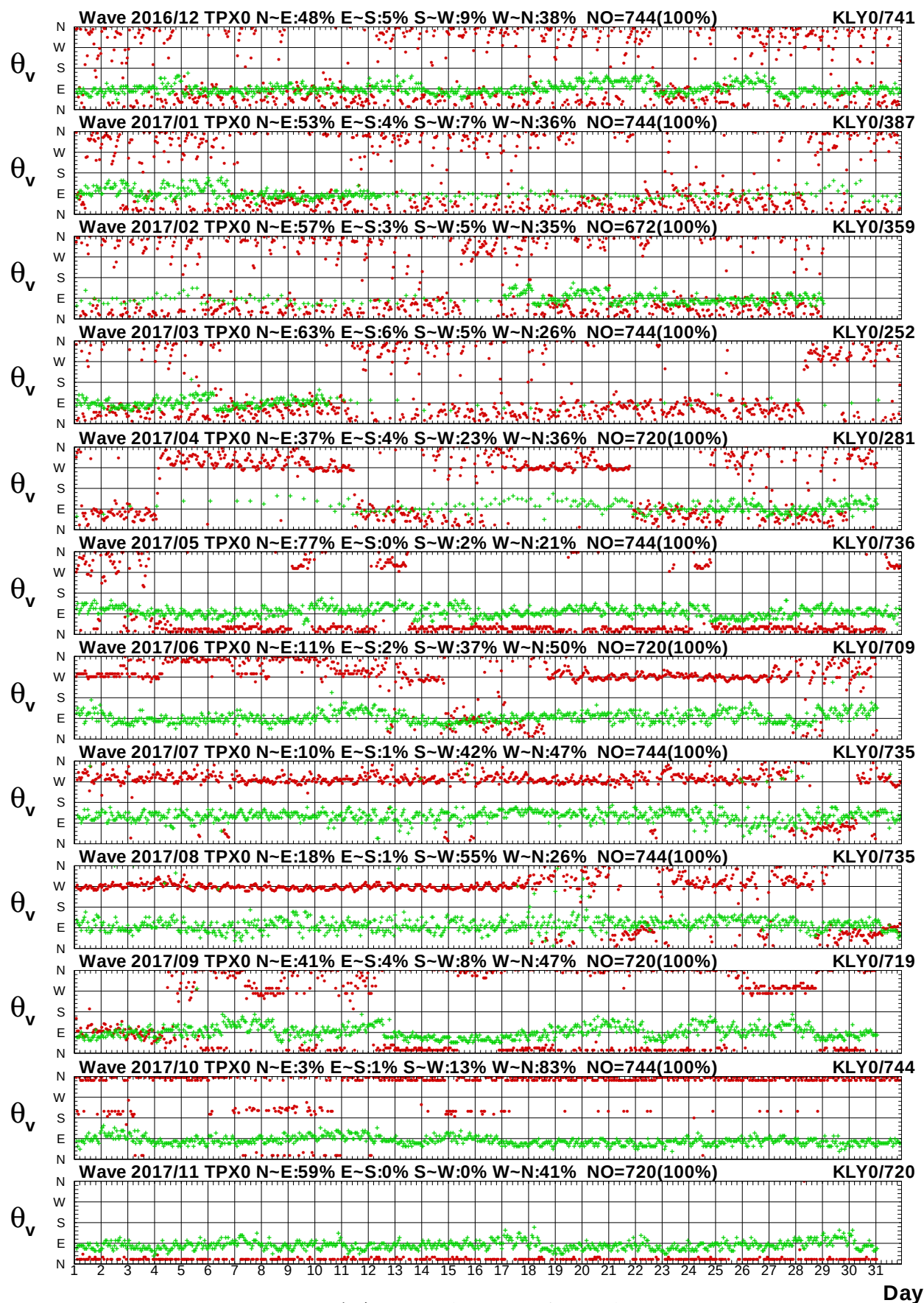


圖2.4c 2017年每月北苗海域 X 站與北端海域 Y 站波向圖

V16CTPX0.1HA V16CKLY0.1H0 V171TPX0.1HA V171KLY0.1H0 V172TPX0.1HA V172KLY0.1H0
V173TPX0.1HA V173KLY0.1H0 V174TPX0.1HA V174KLY0.1H0 V175TPX0.1HA V175KLY0.1H0

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Wave H_s in Pei-Miao Seas of TPX0 at 2017

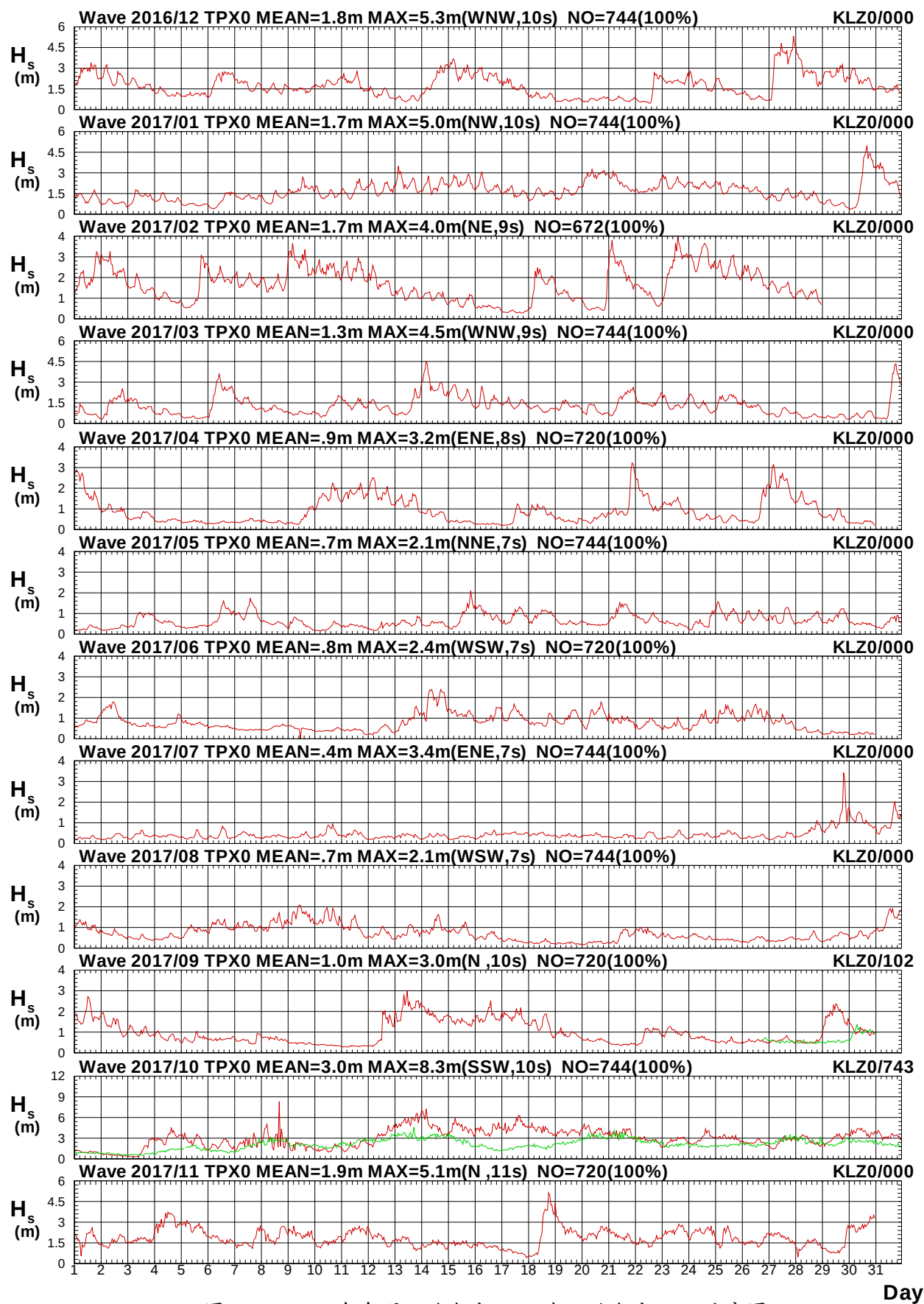


圖2.5a 2017年每月北苗海域 X 站與北端海域 Z 站波高圖

V16CTPX0.1HA V16CKLZ0.1H0 V171TPX0.1HA V171KLZ0.1H0 V172TPX0.1HA V172KLZ0.1H0
V173TPX0.1HA V173KLZ0.1H0 V174TPX0.1HA V174KLZ0.1H0 V175TPX0.1HA V175KLZ0.1H0

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Wave T_p in Pei-Miao Seas of TPX0 at 2017

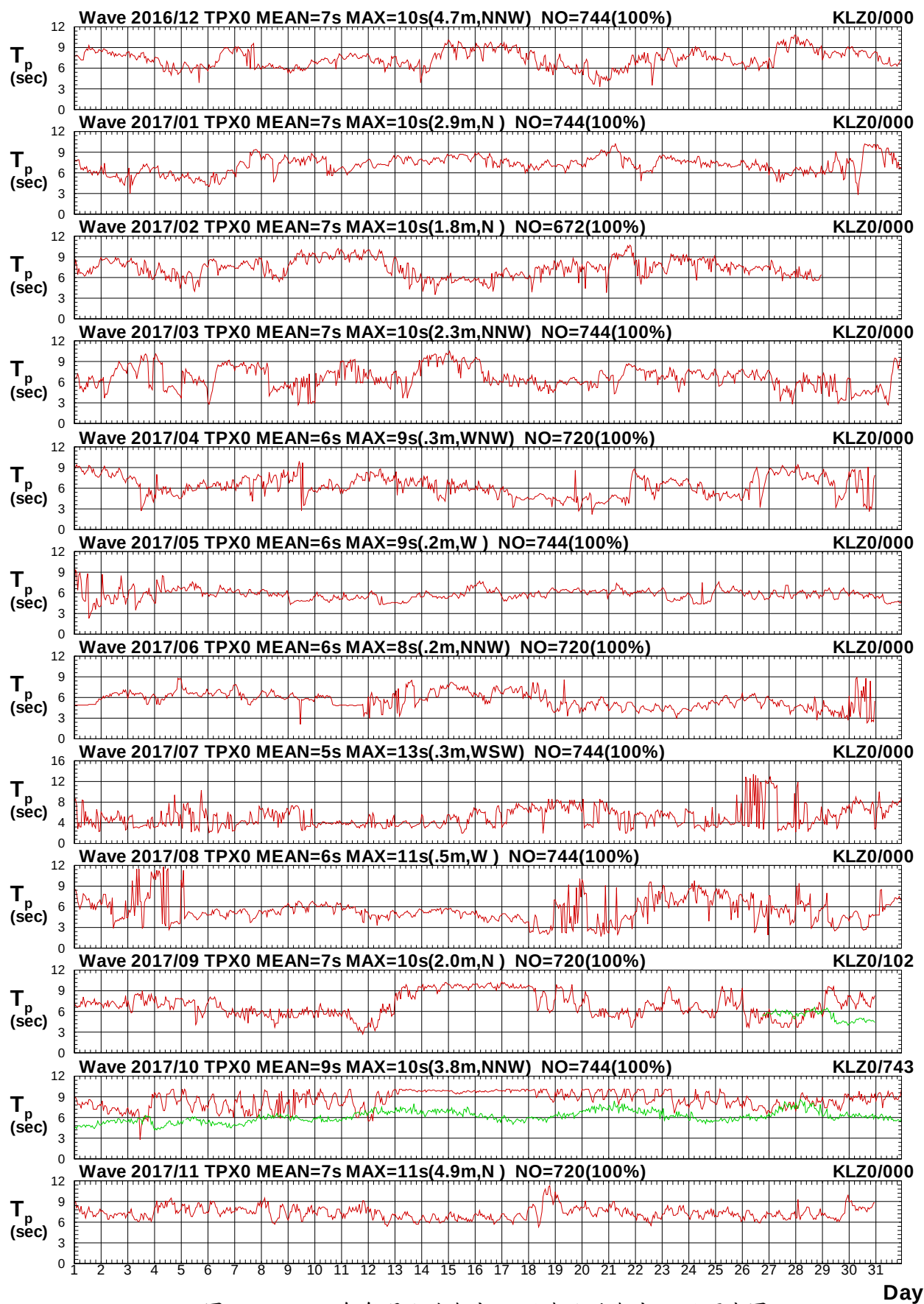


圖2.5b 2017年每月北苗海域 X 站與北端海域 Z 站週期圖

V16CTPX0.1HA V16CKLZ0.1H0 V171TPX0.1HA V171KLZ0.1H0 V172TPX0.1HA V172KLZ0.1H0
V173TPX0.1HA V173KLZ0.1H0 V174TPX0.1HA V174KLZ0.1H0 V175TPX0.1HA V175KLZ0.1H0

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Wave Direction in Pei-Miao Seas of TPX0 at 2017

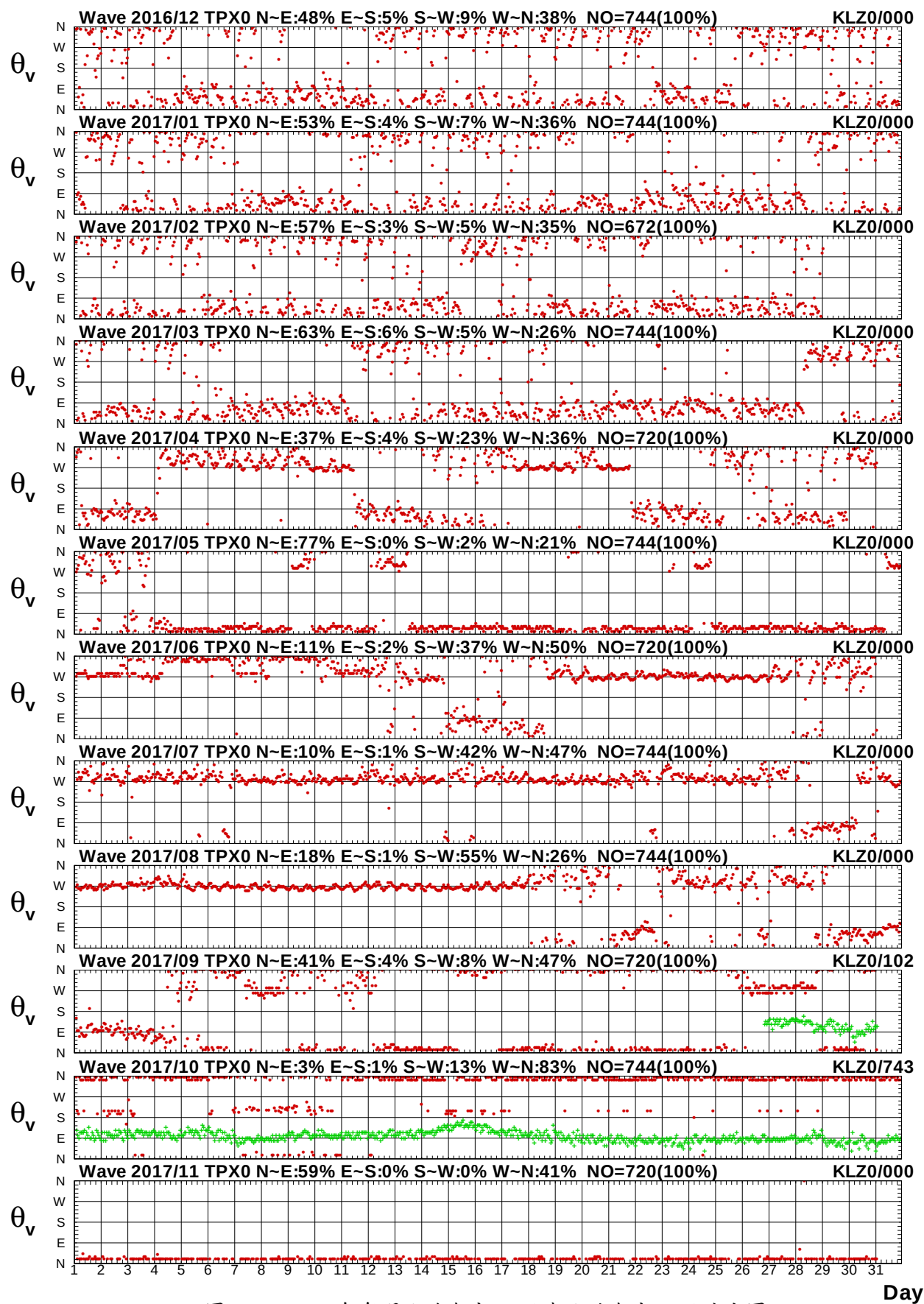


圖2.5c 2017年每月北苗海域 X 站與北端海域 Z 站波向圖

V16CTPX0.1HA V16CKLZ0.1H0 V171TPX0.1HA V171KLZ0.1H0 V172TPX0.1HA V172KLZ0.1H0
V173TPX0.1HA V173KLZ0.1H0 V174TPX0.1HA V174KLZ0.1H0 V175TPX0.1HA V175KLZ0.1H0

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Wave H_s in Pei-Miao Seas of TPX0 at 2017

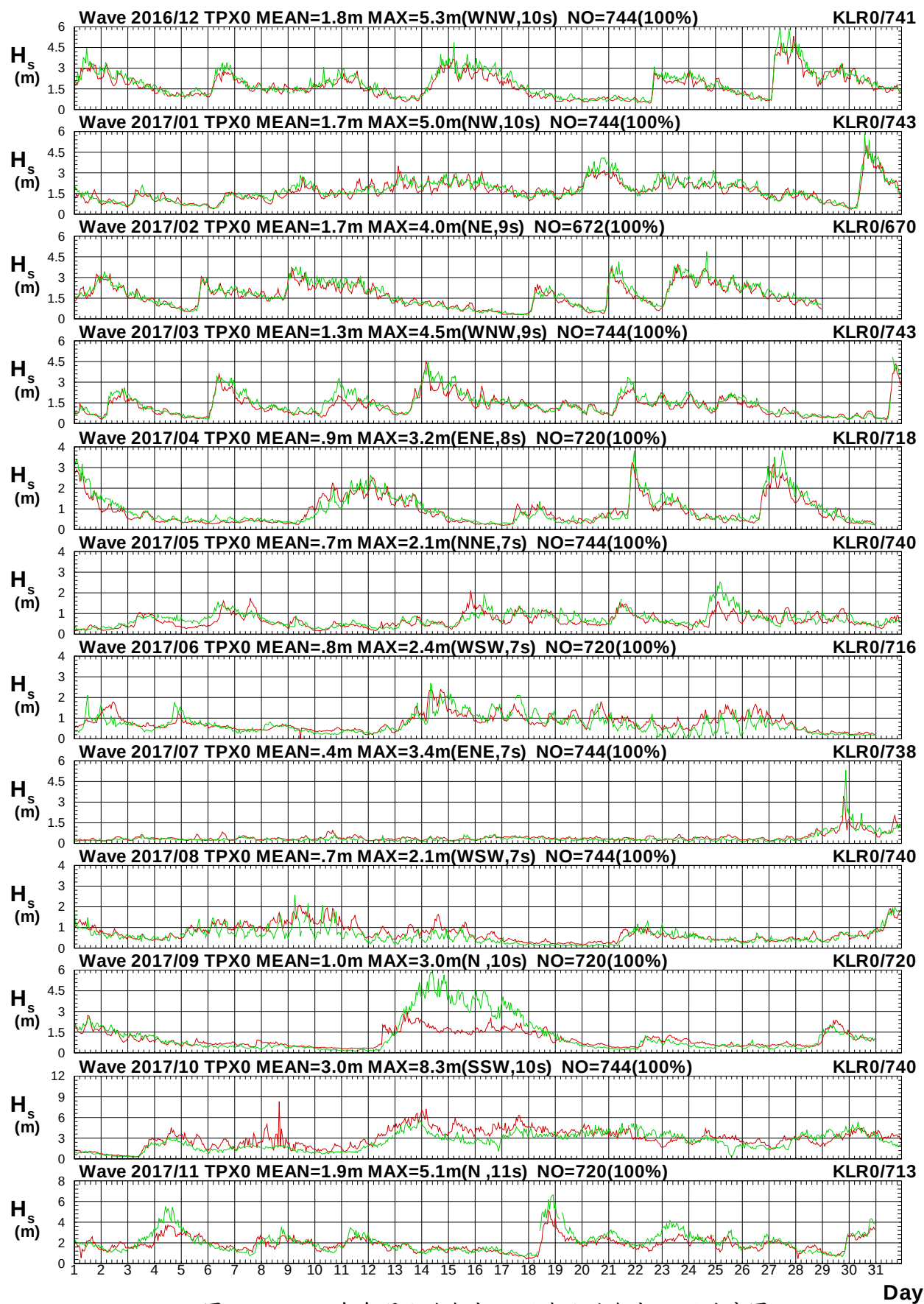


圖2.6a 2017年每月北苗海域 X 站與北端海域 R 站波高圖

V16CTPX0.1HA V16CKLR0.1H0 V171TPX0.1HA V171KLR0.1H0 V172TPX0.1HA V172KLR0.1H0
V173TPX0.1HA V173KLR0.1H0 V174TPX0.1HA V174KLR0.1H0 V175TPX0.1HA V175KLR0.1H0

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Wave T_p in Pei-Miao Seas of TPX0 at 2017

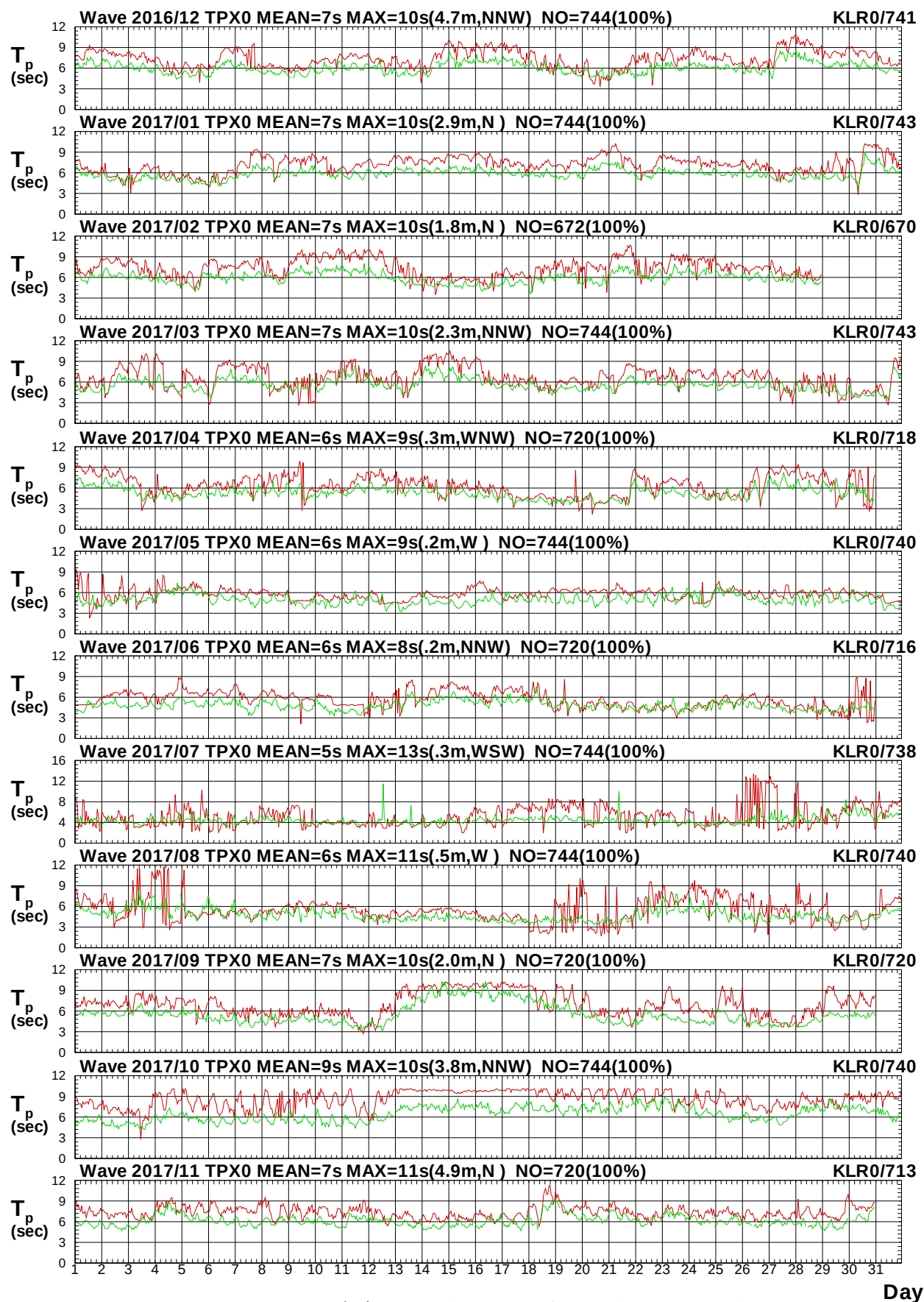


圖2.6b 2017年每月北苗海域 X 站與北端海域 R 站週期圖

V16CTPX0.1HA V16CKLR0.1H0 V171TPX0.1HA V171KLR0.1H0 V172TPX0.1HA V172KLR0.1H0
V173TPX0.1HA V173KLR0.1H0 V174TPX0.1HA V174KLR0.1H0 V175TPX0.1HA V175KLR0.1H0

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Wave Direction in Pei-Miao Seas of TPX0 at 2017

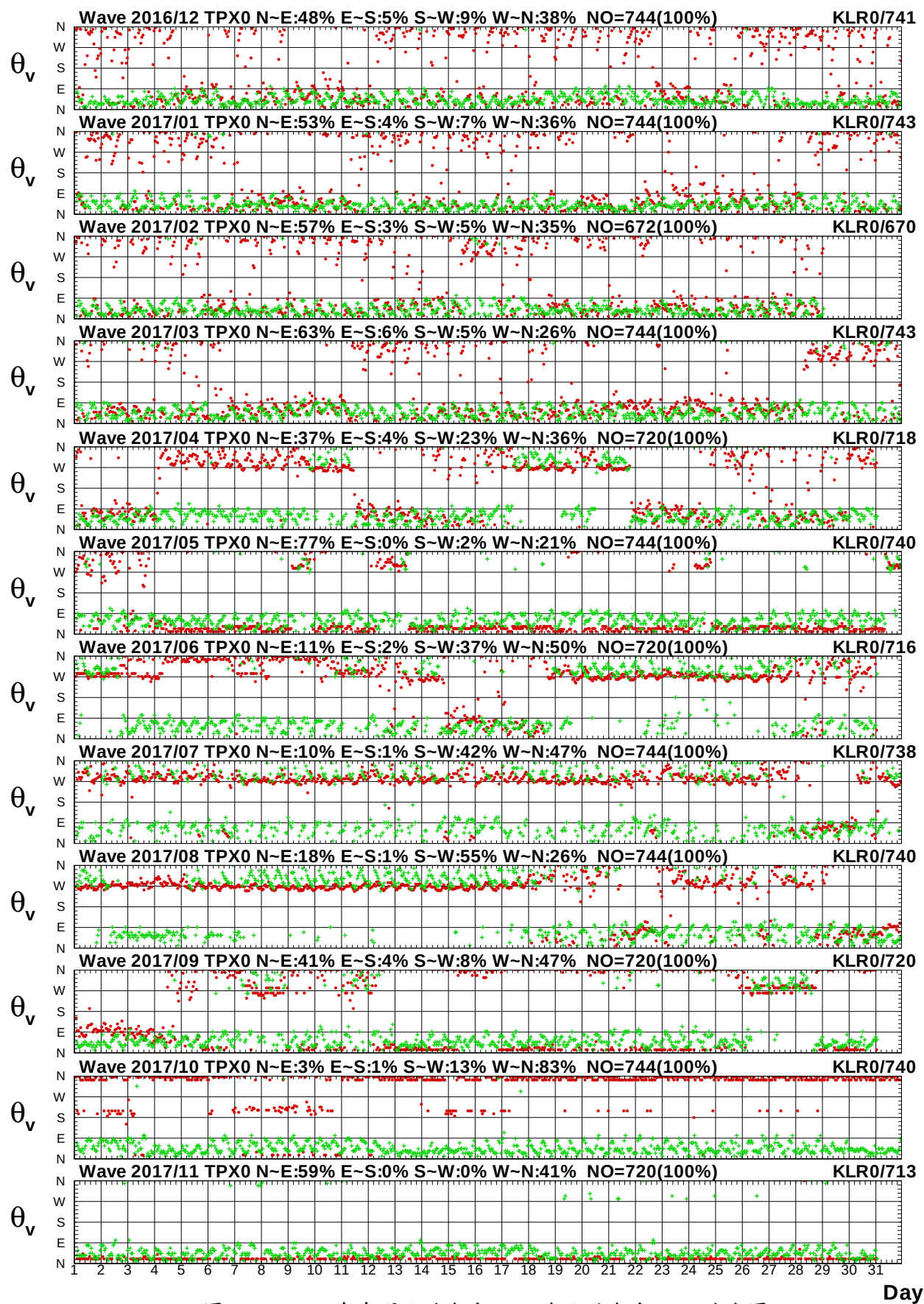


圖2.6c 2017年每月北苗海域 X 站與北端海域 R 站波向圖

V16CTPX0.1HA V16CKLR0.1H0 V171TPX0.1HA V171KLR0.1H0 V172TPX0.1HA V172KLR0.1H0
V173TPX0.1HA V173KLR0.1H0 V174TPX0.1HA V174KLR0.1H0 V175TPX0.1HA V175KLR0.1H0

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Wave H_s in Pei-Miao Seas of TPX0 at 2017

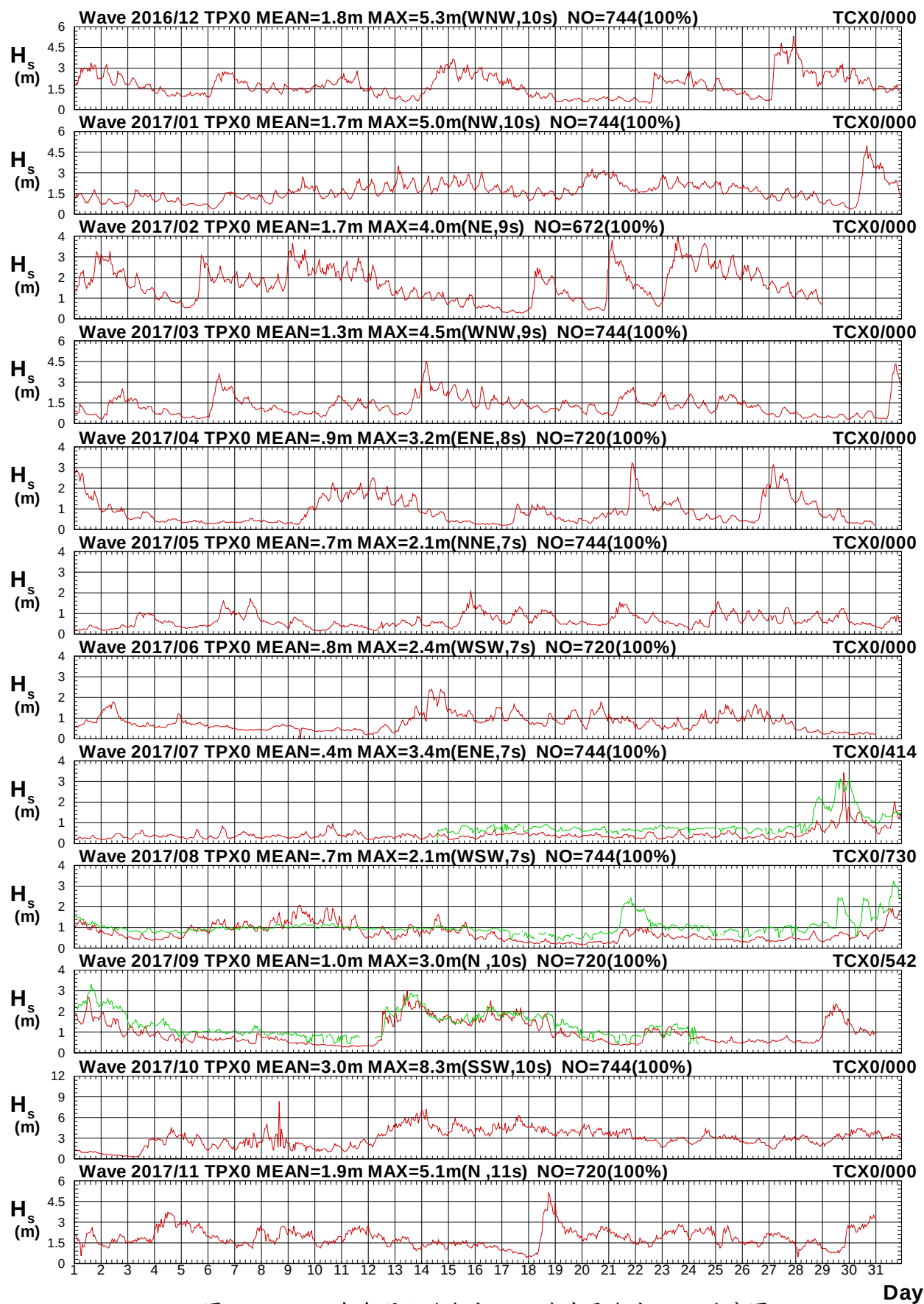


圖2.7a 2017年每月北苗海域 X 站與中雲海域 X 站波高圖

V16CTPX0.1HA V16CTCX0.1H0 V171TPX0.1HA V171TCX0.1H0 V172TPX0.1HA V172TCX0.1H0
V173TPX0.1HA V173TCX0.1H0 V174TPX0.1HA V174TCX0.1H0 V175TPX0.1HA V175TCX0.1H0

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Wave T_p in Pei-Miao Seas of TPX0 at 2017

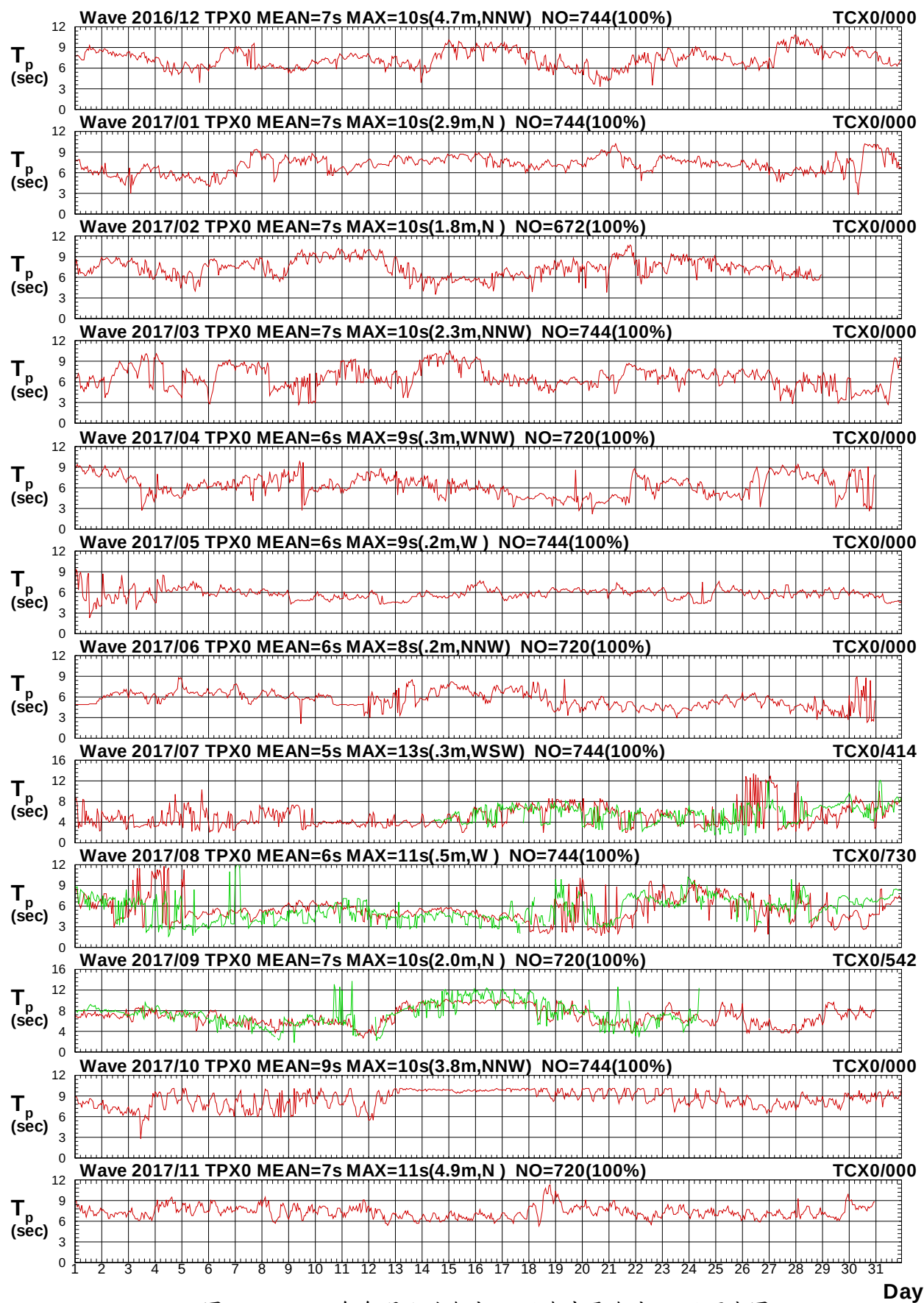


圖2.7b 2017年每月北苗海域 X 站與中雲海域 X 站週期圖

V16CTPX0.1HA V16CTCX0.1H0 V171TPX0.1HA V171TCX0.1H0 V172TPX0.1HA V172TCX0.1H0
V173TPX0.1HA V173TCX0.1H0 V174TPX0.1HA V174TCX0.1H0 V175TPX0.1HA V175TCX0.1H0

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Wave Direction in Pei-Miao Seas of TPX0 at 2017

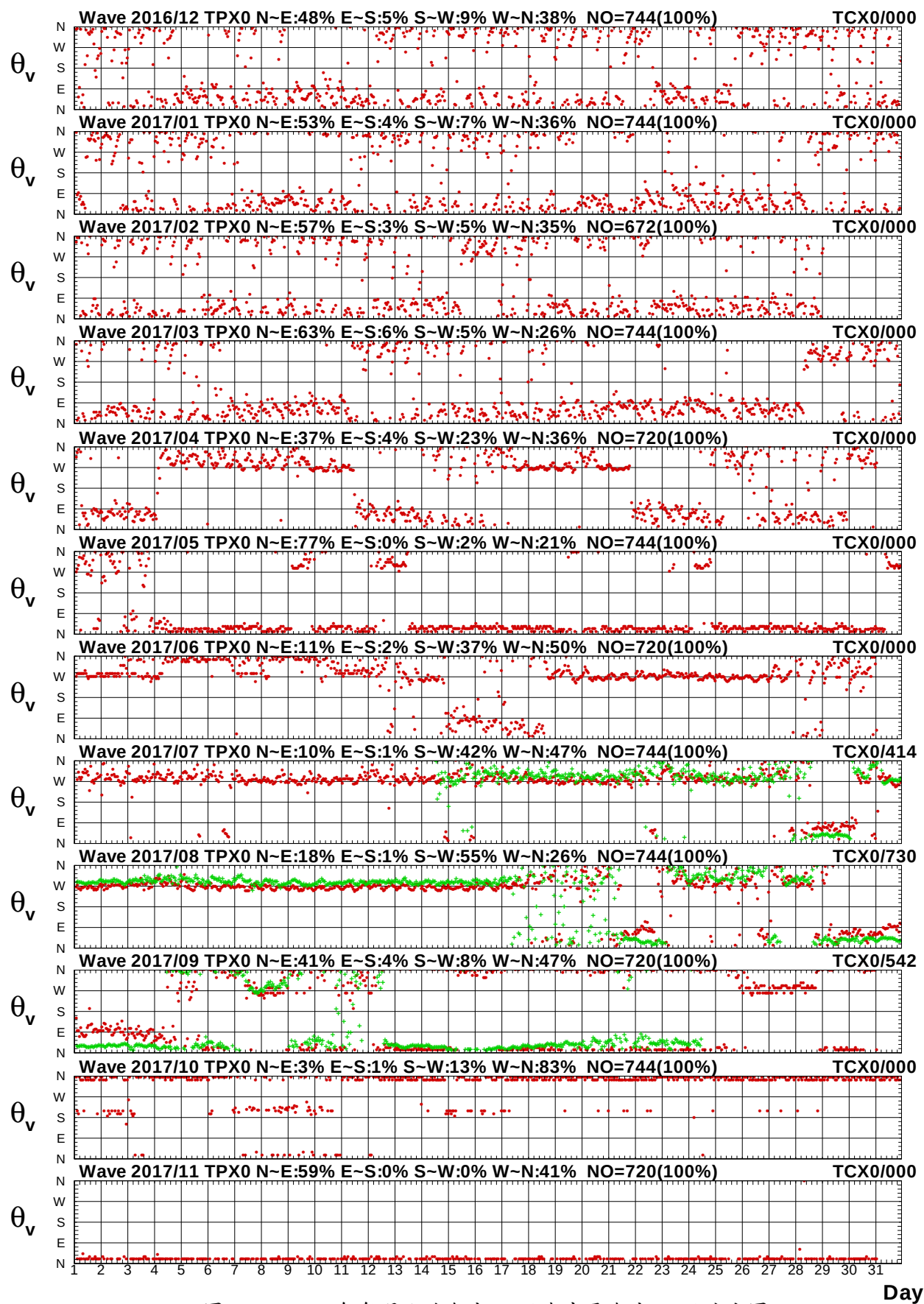


圖2.7c 2017年每月北苗海域 X 站與中雲海域 X 站波向圖

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V173TPX0.1HA V173TCX0.1H0 V174TPX0.1HA V174TCX0.1H0 V175TPX0.1HA V175TCX0.1H0

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Wave H_s in Pei-Miao Seas of TPX0 at 2017

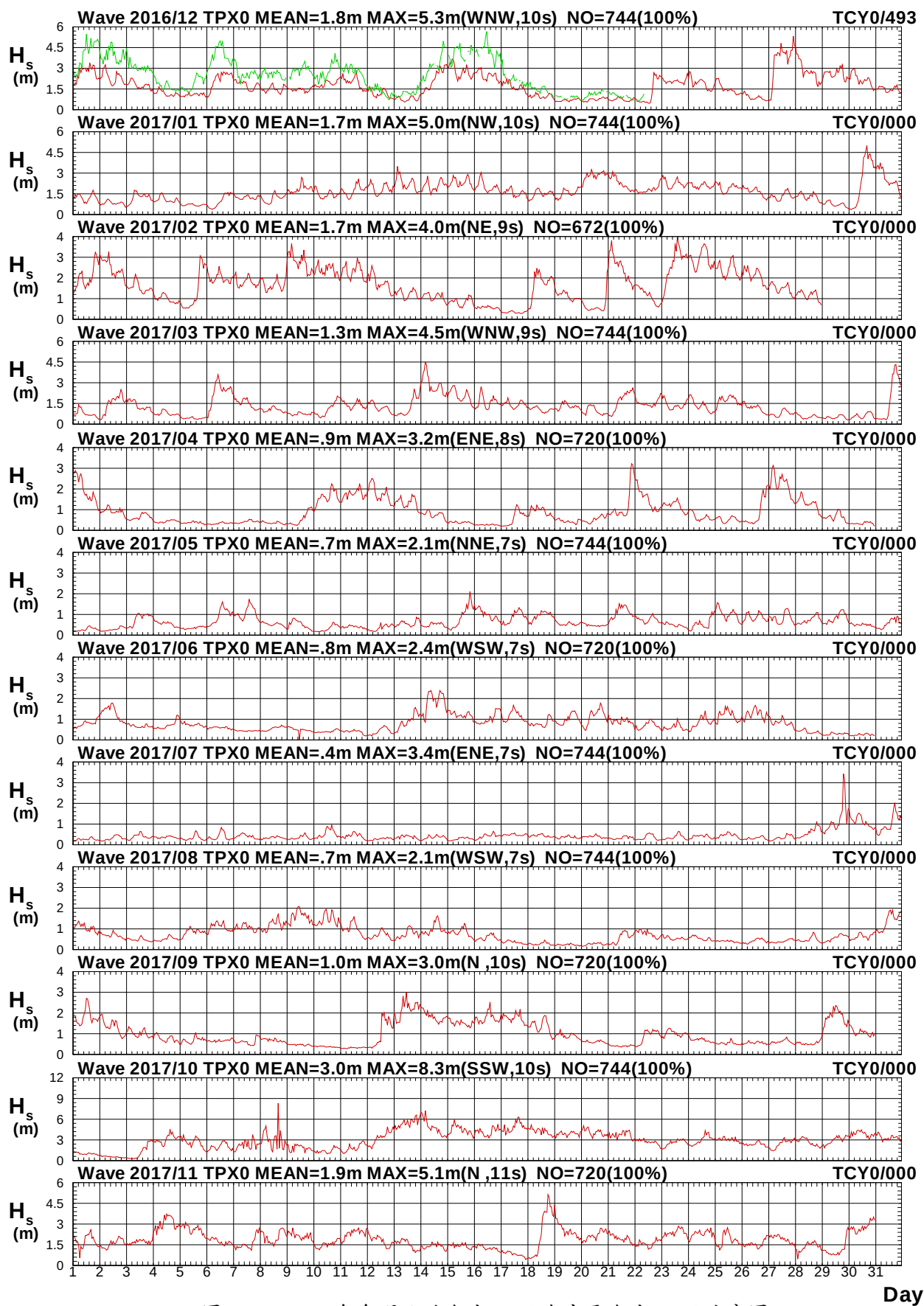


圖2.8a 2017年每月北苗海域 X 站與中雲海域 Y 站波高圖

V16CTPX0.1HA V16CTCY0.1H0 V171TPX0.1HA V171TCY0.1H0 V172TPX0.1HA V172TCY0.1H0
V173TPX0.1HA V173TCY0.1H0 V174TPX0.1HA V174TCY0.1H0 V175TPX0.1HA V175TCY0.1H0

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Wave T_p in Pei-Miao Seas of TPX0 at 2017

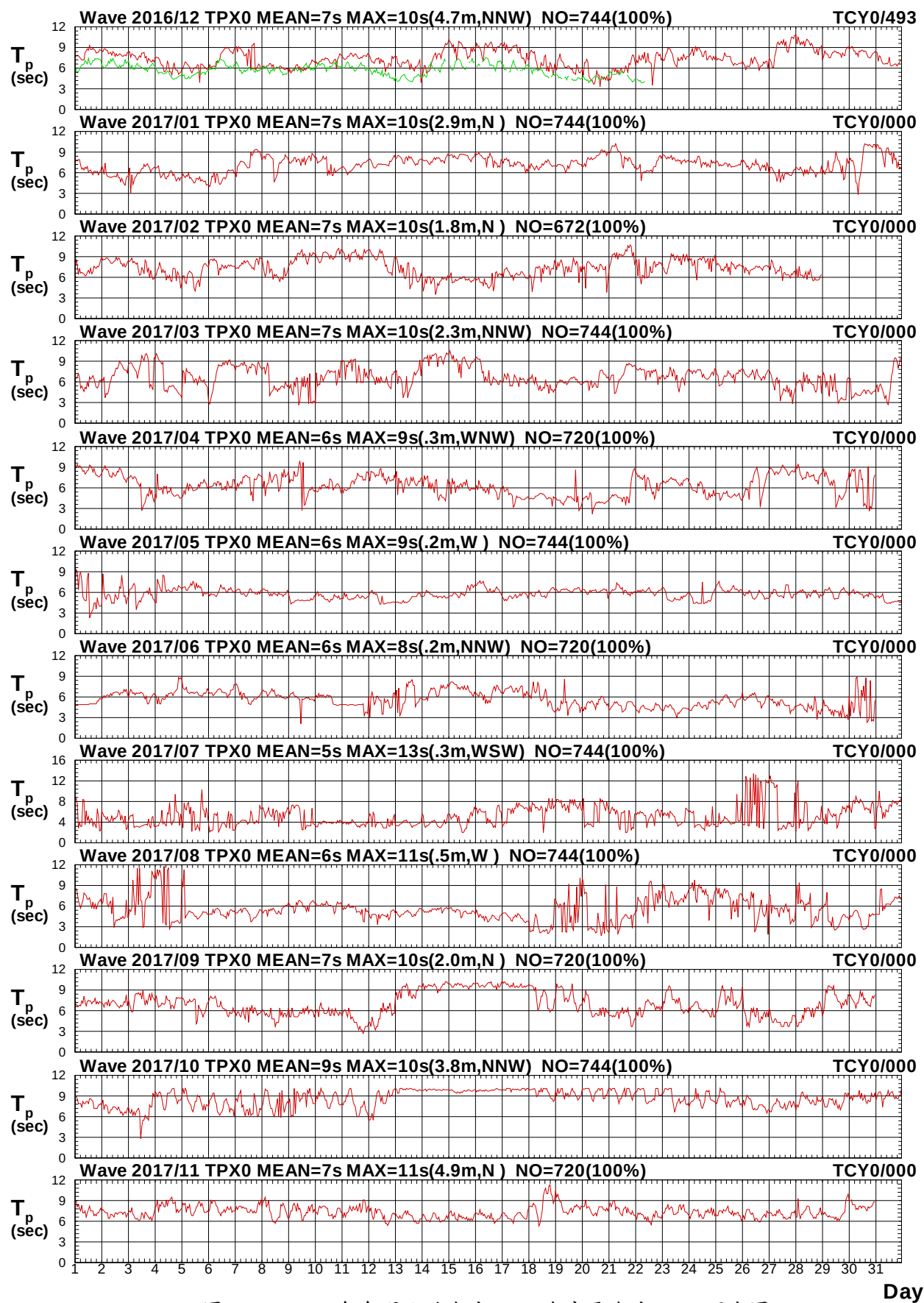


圖2.8b 2017年每月北苗海域 X 站與中雲海域 Y 站週期圖

V16CTPX0.1HA V16CTCY0.1H0 V171TPX0.1HA V171TCY0.1H0 V172TPX0.1HA V172TCY0.1H0
V173TPX0.1HA V173TCY0.1H0 V174TPX0.1HA V174TCY0.1H0 V175TPX0.1HA V175TCY0.1H0

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Wave Direction in Pei-Miao Seas of TPX0 at 2017

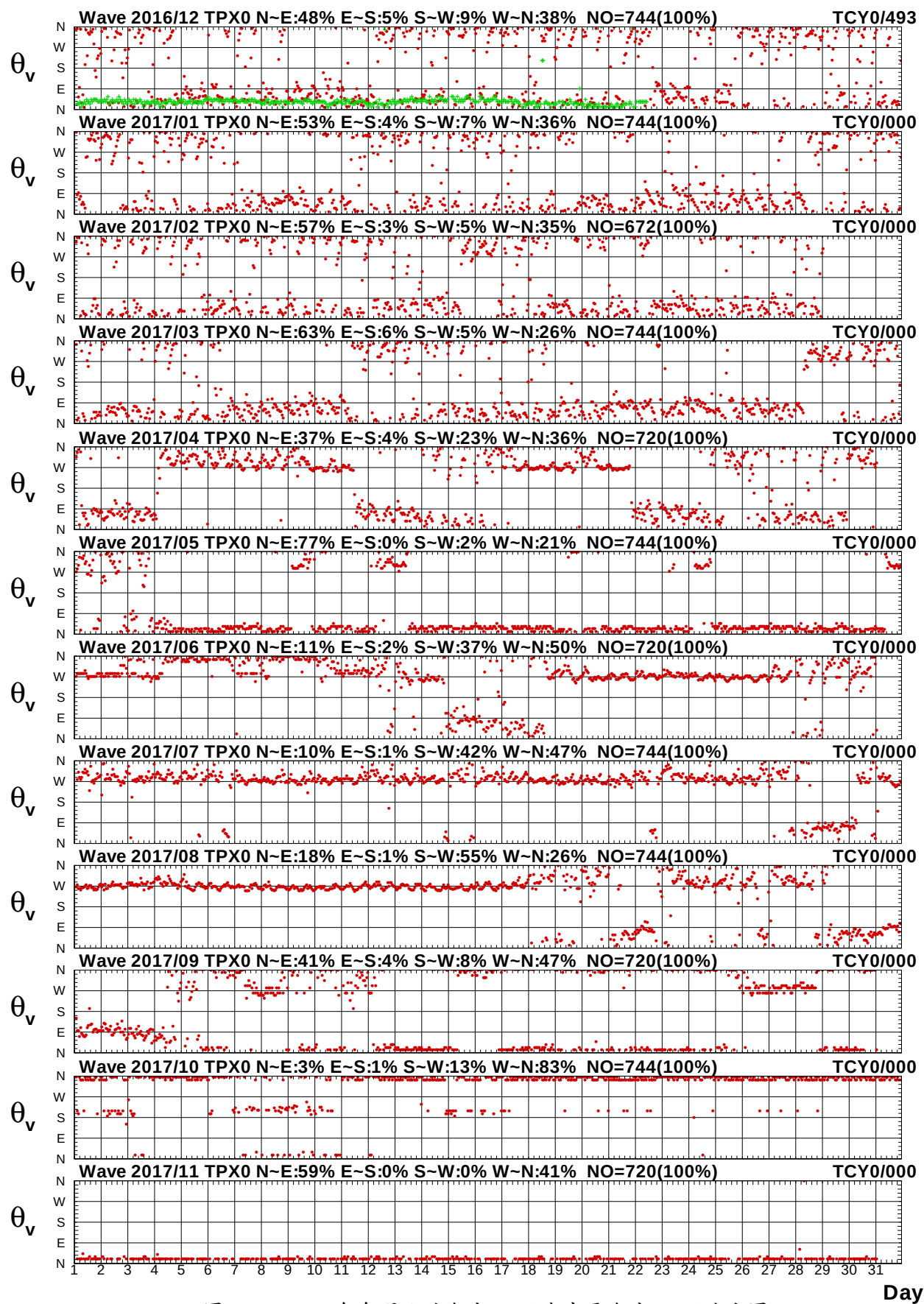


圖2.8c 2017年每月北苗海域 X 站與中雲海域 Y 站波向圖

V16CTPX0.1HA V16CTCY0.1H0 V171TPX0.1HA V171TCY0.1H0 V172TPX0.1HA V172TCY0.1H0
V173TPX0.1HA V173TCY0.1H0 V174TPX0.1HA V174TCY0.1H0 V175TPX0.1HA V175TCY0.1H0

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Wave H_s in Pei-Miao Seas of TPX0 at 2017

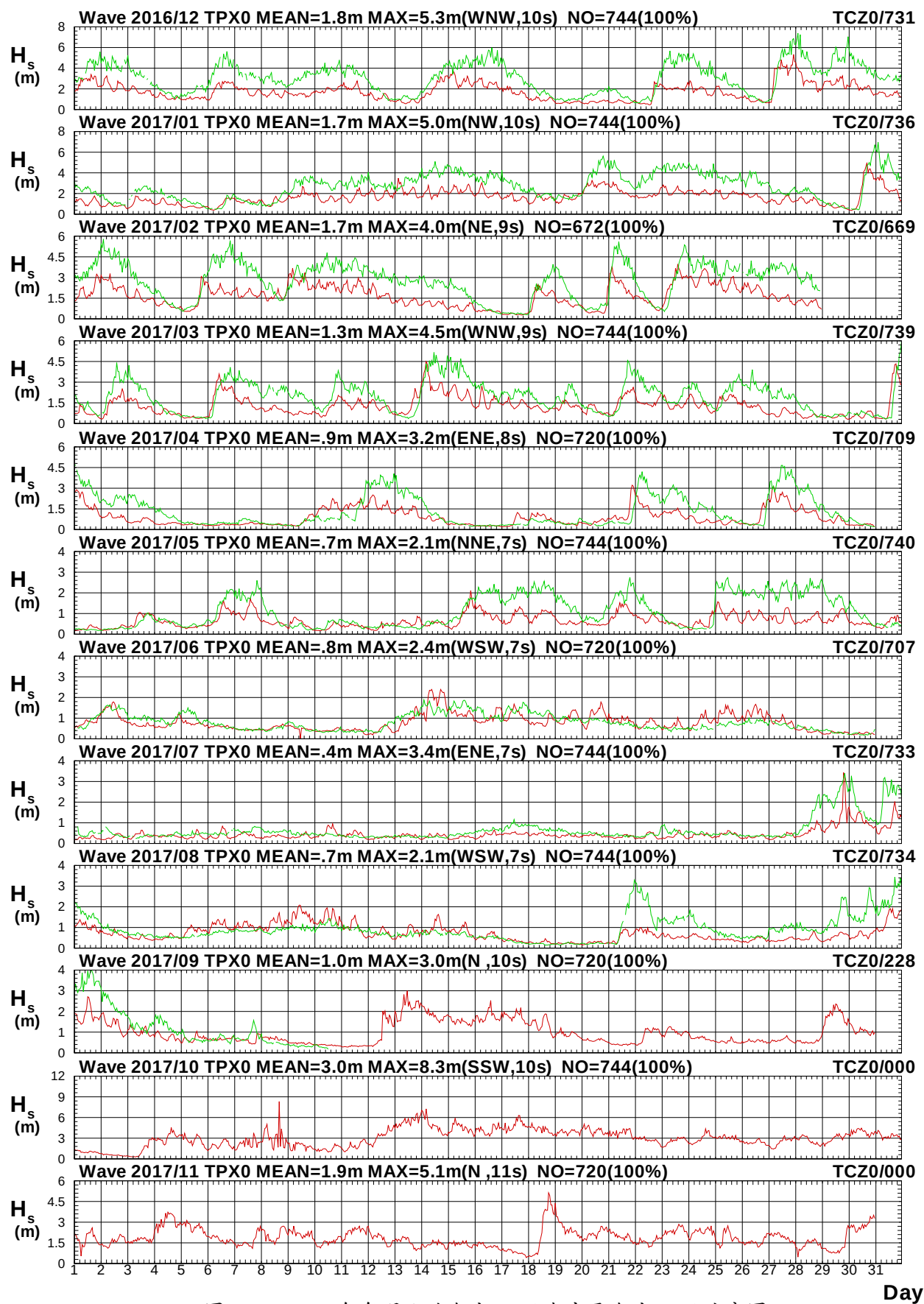


圖2.9a 2017年每月北苗海域 X 站與中雲海域 Z 站波高圖

V16CTPX0.1HA V16CTCZ0.1H0 V171TPX0.1HA V171TCZ0.1H0 V172TPX0.1HA V172TCZ0.1H0
V173TPX0.1HA V173TCZ0.1H0 V174TPX0.1HA V174TCZ0.1H0 V175TPX0.1HA V175TCZ0.1H0

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Wave T_p in Pei-Miao Seas of TPX0 at 2017

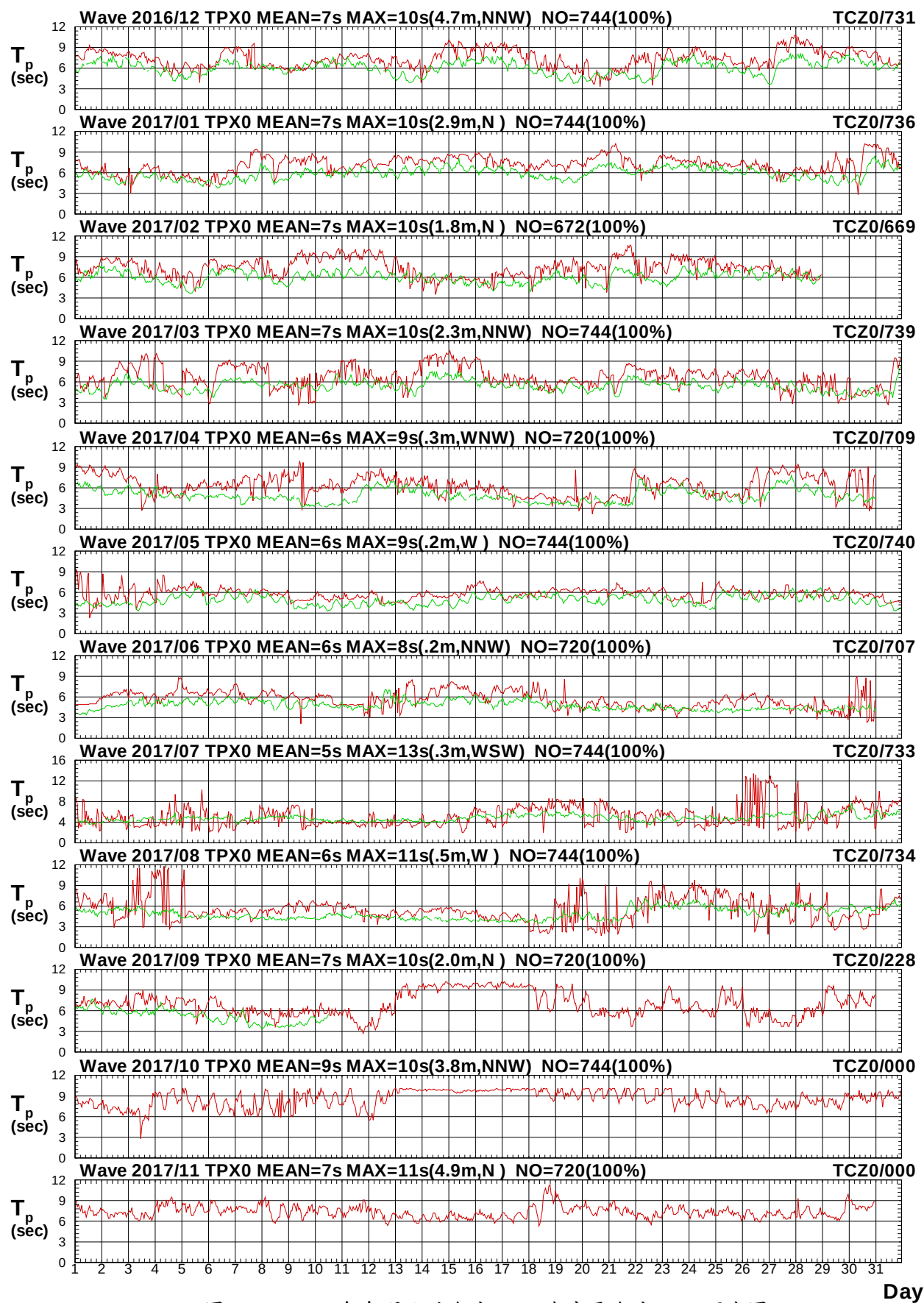


圖2.9b 2017年每月北苗海域 X 站與中雲海域 Z 站週期圖

V16CTPX0.1HA V16CTCZ0.1H0 V171TPX0.1HA V171TCZ0.1H0 V172TPX0.1HA V172TCZ0.1H0
V173TPX0.1HA V173TCZ0.1H0 V174TPX0.1HA V174TCZ0.1H0 V175TPX0.1HA V175TCZ0.1H0

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Wave Direction in Pei-Miao Seas of TPX0 at 2017

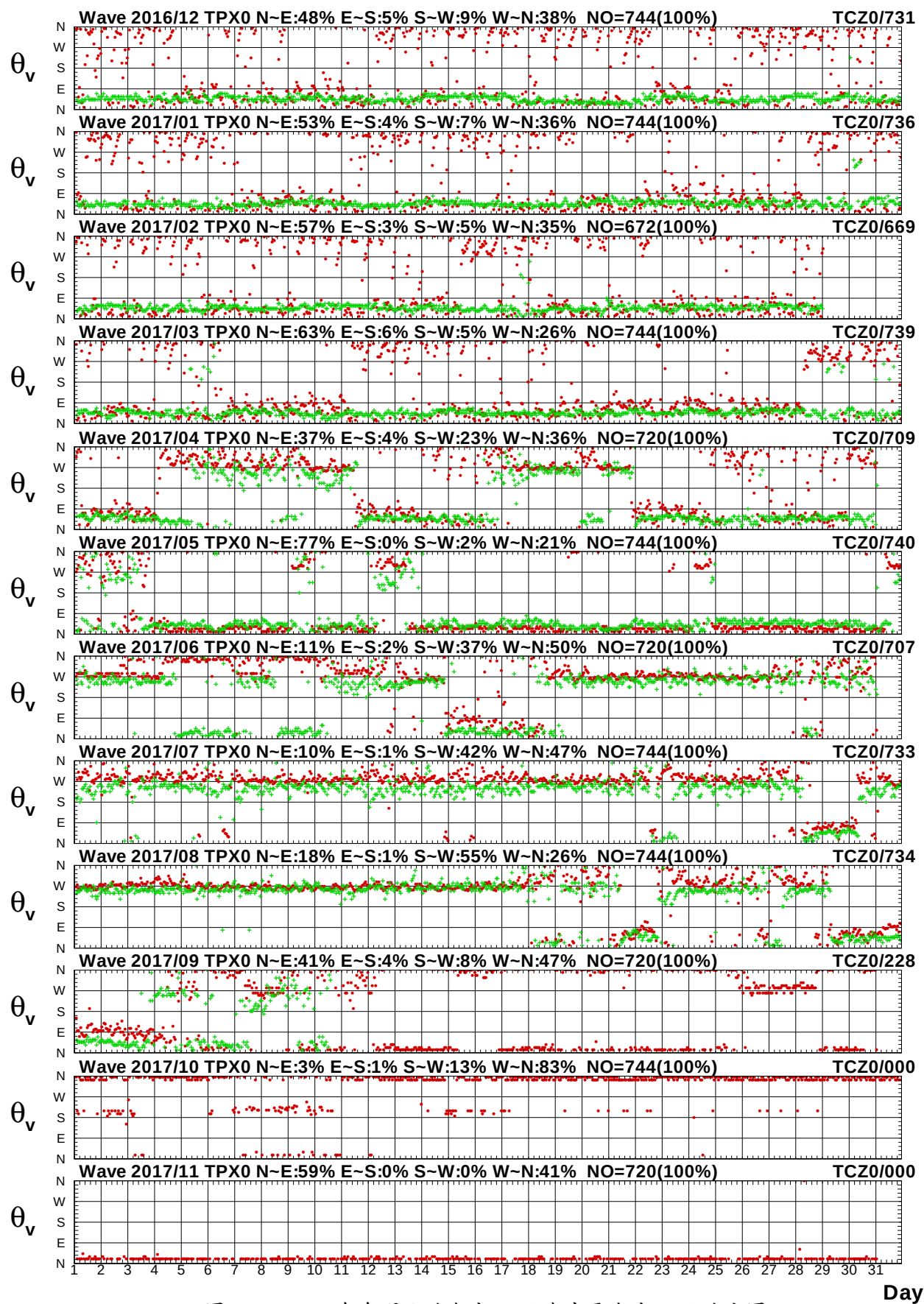


圖2.9c 2017年每月北苗海域 X 站與中雲海域 Z 站波向圖

V16CTPX0.1HA V16CTCZ0.1H0 V171TPX0.1HA V171TCZ0.1H0 V172TPX0.1HA V172TCZ0.1H0
V173TPX0.1HA V173TCZ0.1H0 V174TPX0.1HA V174TCZ0.1H0 V175TPX0.1HA V175TCZ0.1H0

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Wave H_s in Pei-Miao Seas of TPX0 at 2017

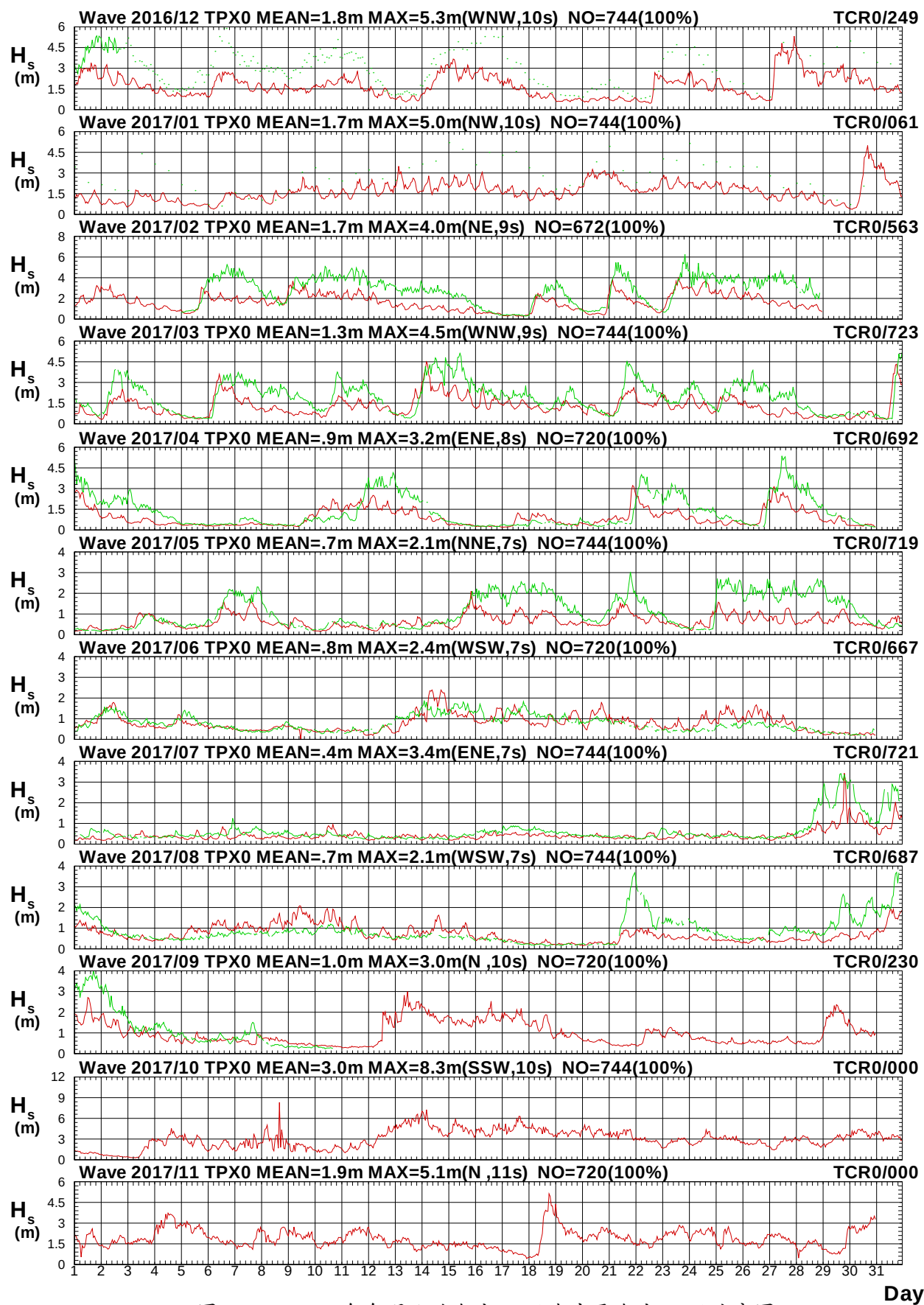


圖2.10a 2017年每月北苗海域 X 站與中雲海域 R 站波高圖

V16CTPX0.1HA V16CTCR0.1H0 V171TPX0.1HA V171TCR0.1H0 V172TPX0.1HA V172TCR0.1H0
V173TPX0.1HA V173TCR0.1H0 V174TPX0.1HA V174TCR0.1H0 V175TPX0.1HA V175TCR0.1H0

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Wave T_p in Pei-Miao Seas of TPX0 at 2017

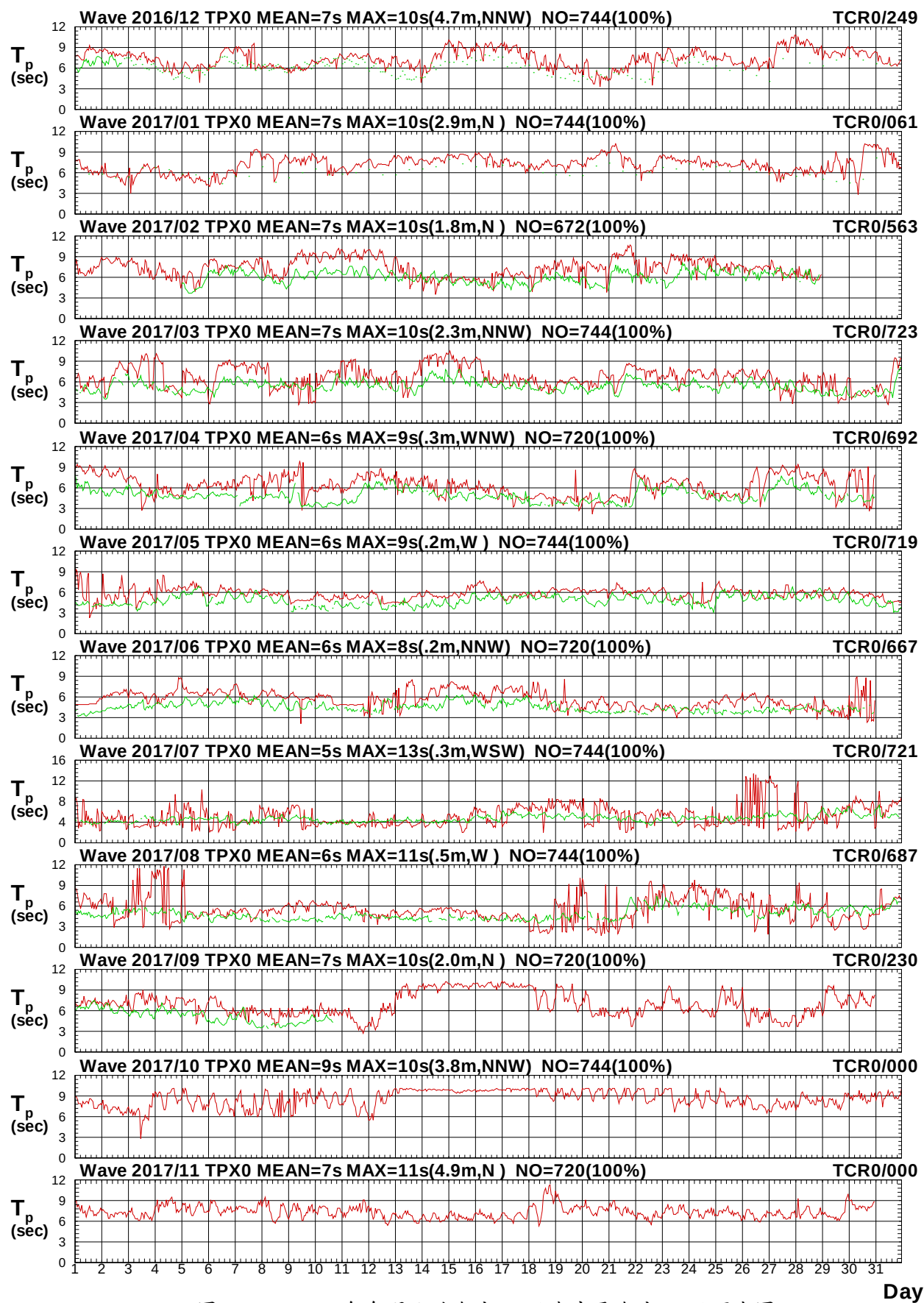


圖2.10b 2017年每月北苗海域 X 站與中雲海域 R 站週期圖

V16CTPX0.1HA V16CTCR0.1H0 V171TPX0.1HA V171TCR0.1H0 V172TPX0.1HA V172TCR0.1H0
V173TPX0.1HA V173TCR0.1H0 V174TPX0.1HA V174TCR0.1H0 V175TPX0.1HA V175TCR0.1H0

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Wave Direction in Pei-Miao Seas of TPX0 at 2017

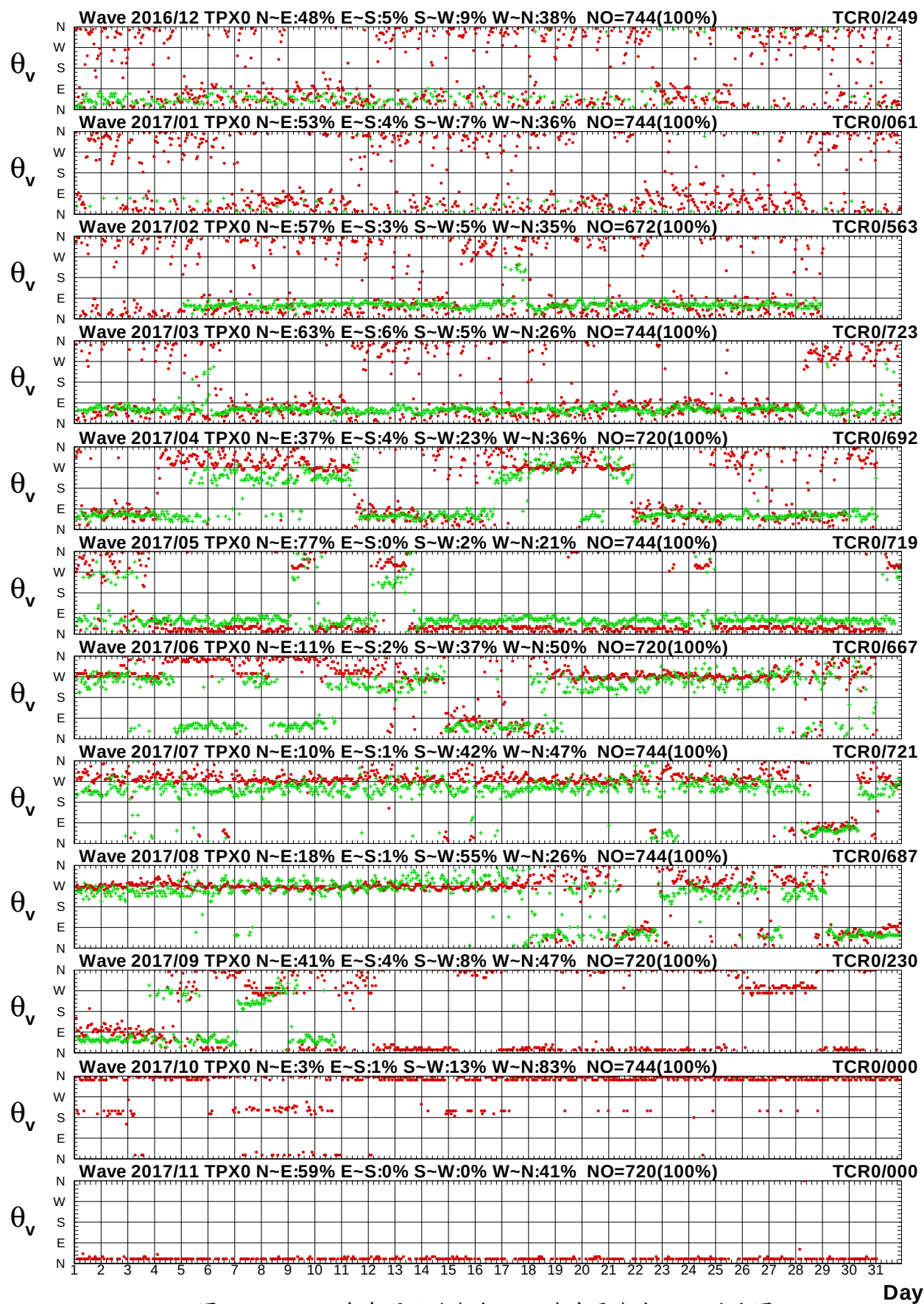


圖2.10c 2017年每月北苗海域 X 站與中雲海域 R 站波向圖

V16CTPX0.1HA V16CTCR0.1H0 V171TPX0.1HA V171TCR0.1H0 V172TPX0.1HA V172TCR0.1H0
V173TPX0.1HA V173TCR0.1H0 V174TPX0.1HA V174TCR0.1H0 V175TPX0.1HA V175TCR0.1H0

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Wave H_s in Pei-Miao Seas of TPX0 at 2017

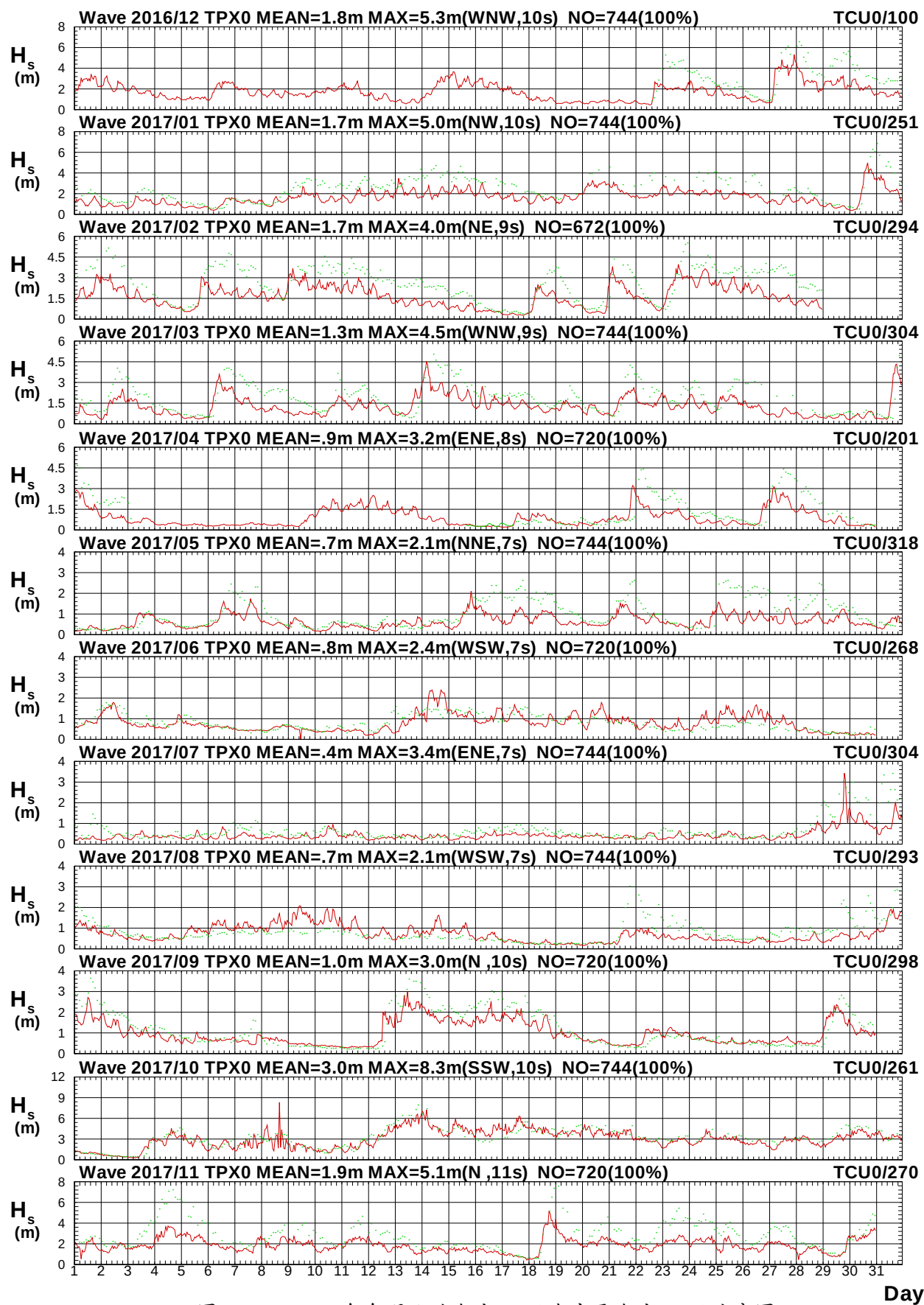


圖2.11a 2017年每月北苗海域 X 站與中雲海域 U 站波高圖

V16CTPX0.1HA V16CTCU0.1H0 V171TPX0.1HA V171TCU0.1H0 V172TPX0.1HA V172TCU0.1H0
V173TPX0.1HA V173TCU0.1H0 V174TPX0.1HA V174TCU0.1H0 V175TPX0.1HA V175TCU0.1H0

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Wave T_p in Pei-Miao Seas of TPX0 at 2017

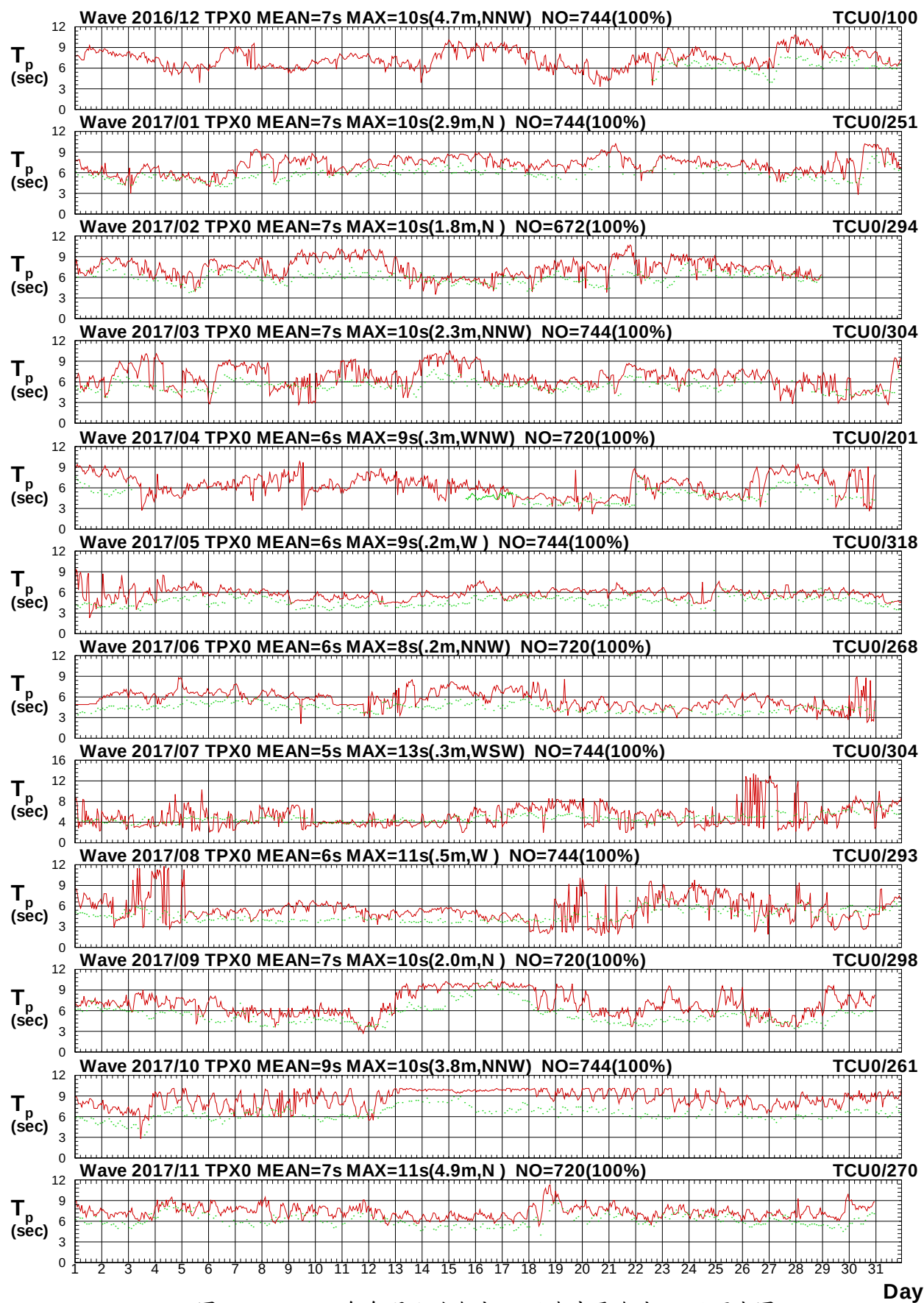


圖2.11b 2017年每月北苗海域 X 站與中雲海域 U 站週期圖

V16CTPX0.1HA V16CTCU0.1H0 V171TPX0.1HA V171TCU0.1H0 V172TPX0.1HA V172TCU0.1H0
V173TPX0.1HA V173TCU0.1H0 V174TPX0.1HA V174TCU0.1H0 V175TPX0.1HA V175TCU0.1H0

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Wave Direction in Pei-Miao Seas of TPX0 at 2017

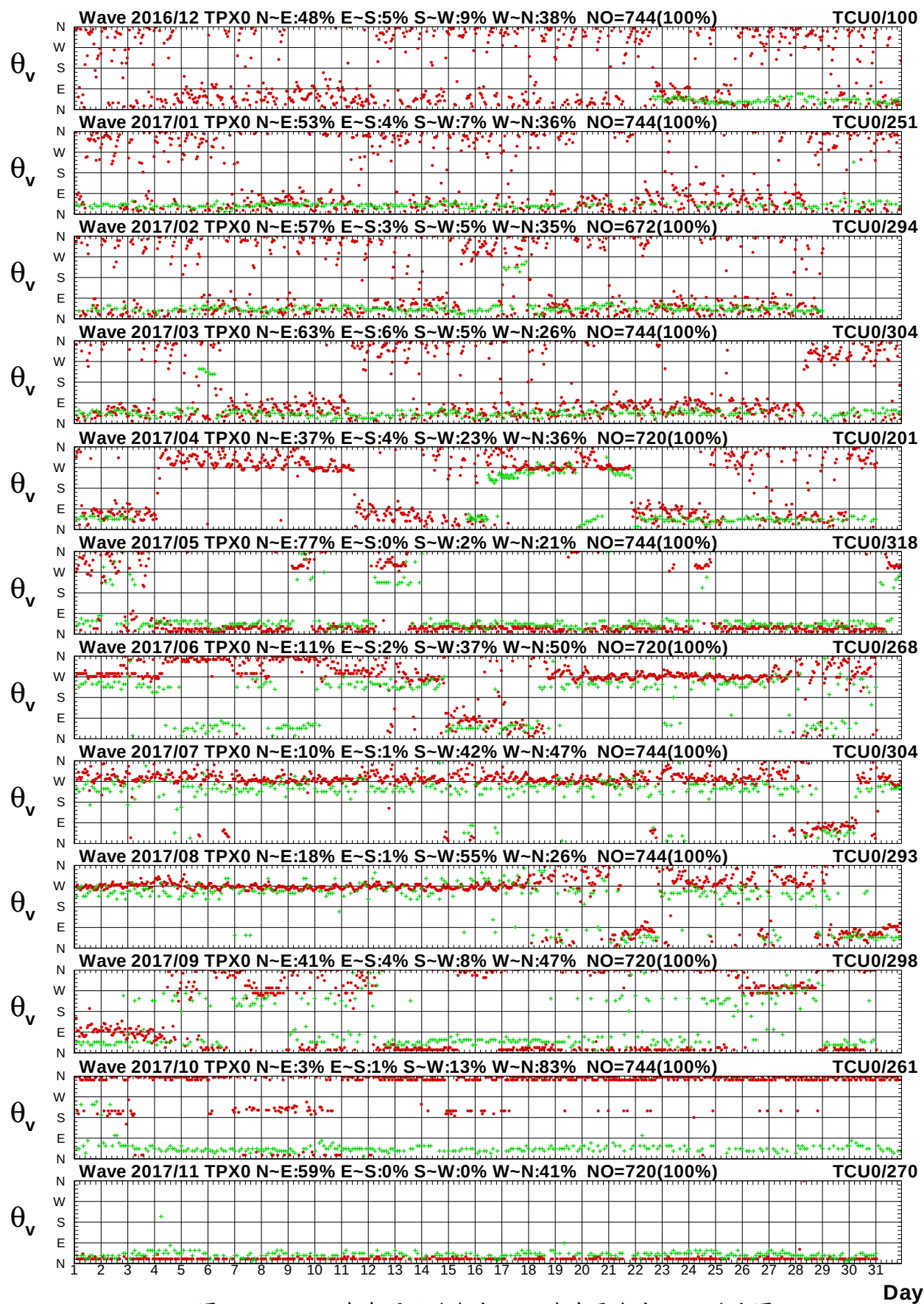


圖2.11c 2017年每月北苗海域 X 站與中雲海域 U 站波向圖

V16CTPX0.1HA V16CTCU0.1H0 V171TPX0.1HA V171TCU0.1H0 V172TPX0.1HA V172TCU0.1H0
V173TPX0.1HA V173TCU0.1H0 V174TPX0.1HA V174TCU0.1H0 V175TPX0.1HA V175TCU0.1H0

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Wave H_s in Pei-Miao Seas of TPY0 at 2017

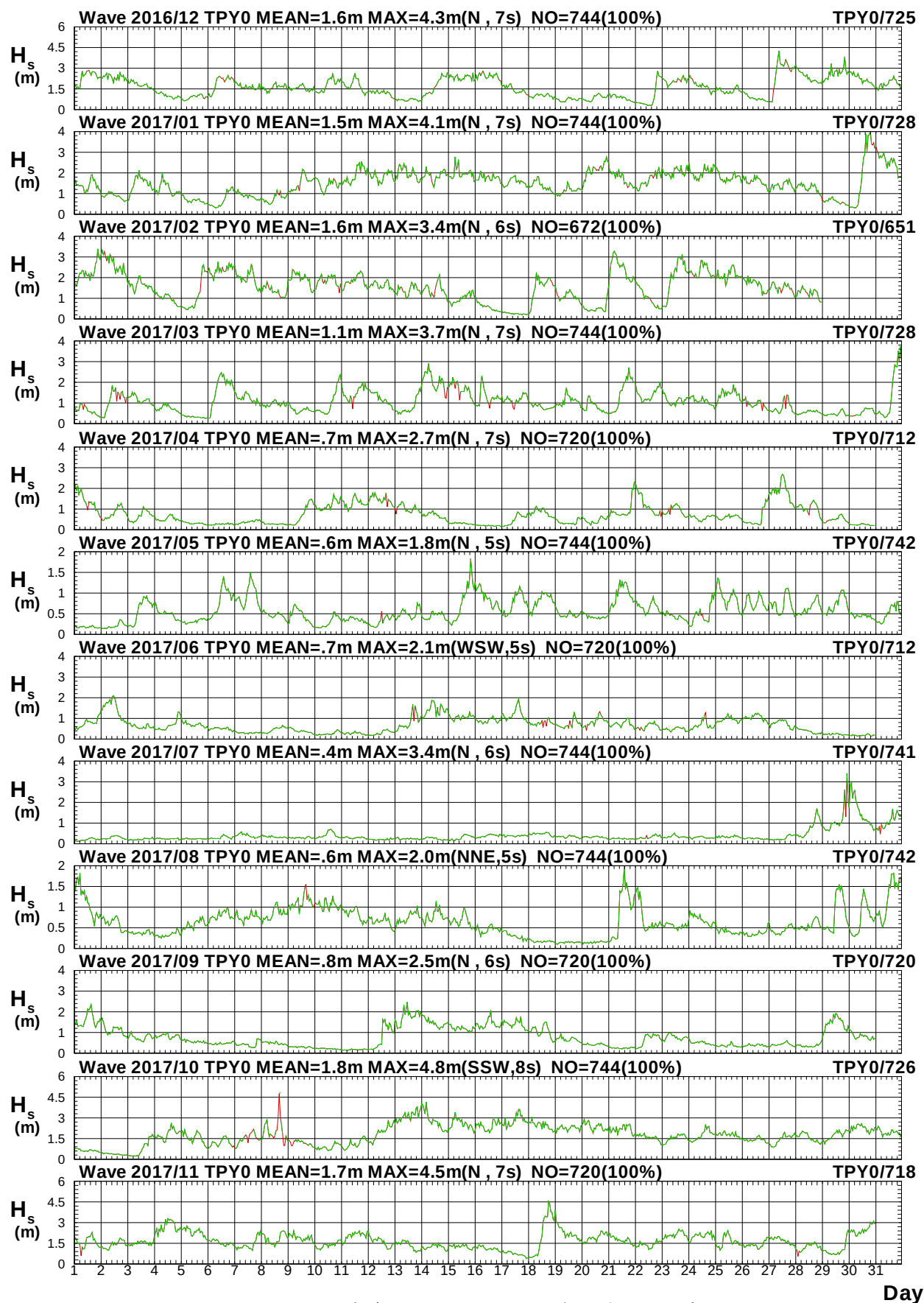


圖2.12a 2017年每月北苗海域 Y 站修補前後之波高比較圖

V16CTPY0.1HA V16CTPY0.1H0 V171TPY0.1HA V171TPY0.1H0 V172TPY0.1HA V172TPY0.1H0
V173TPY0.1HA V173TPY0.1H0 V174TPY0.1HA V174TPY0.1H0 V175TPY0.1HA V175TPY0.1H0

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Wave T_p in Pei-Miao Seas of TPY0 at 2017

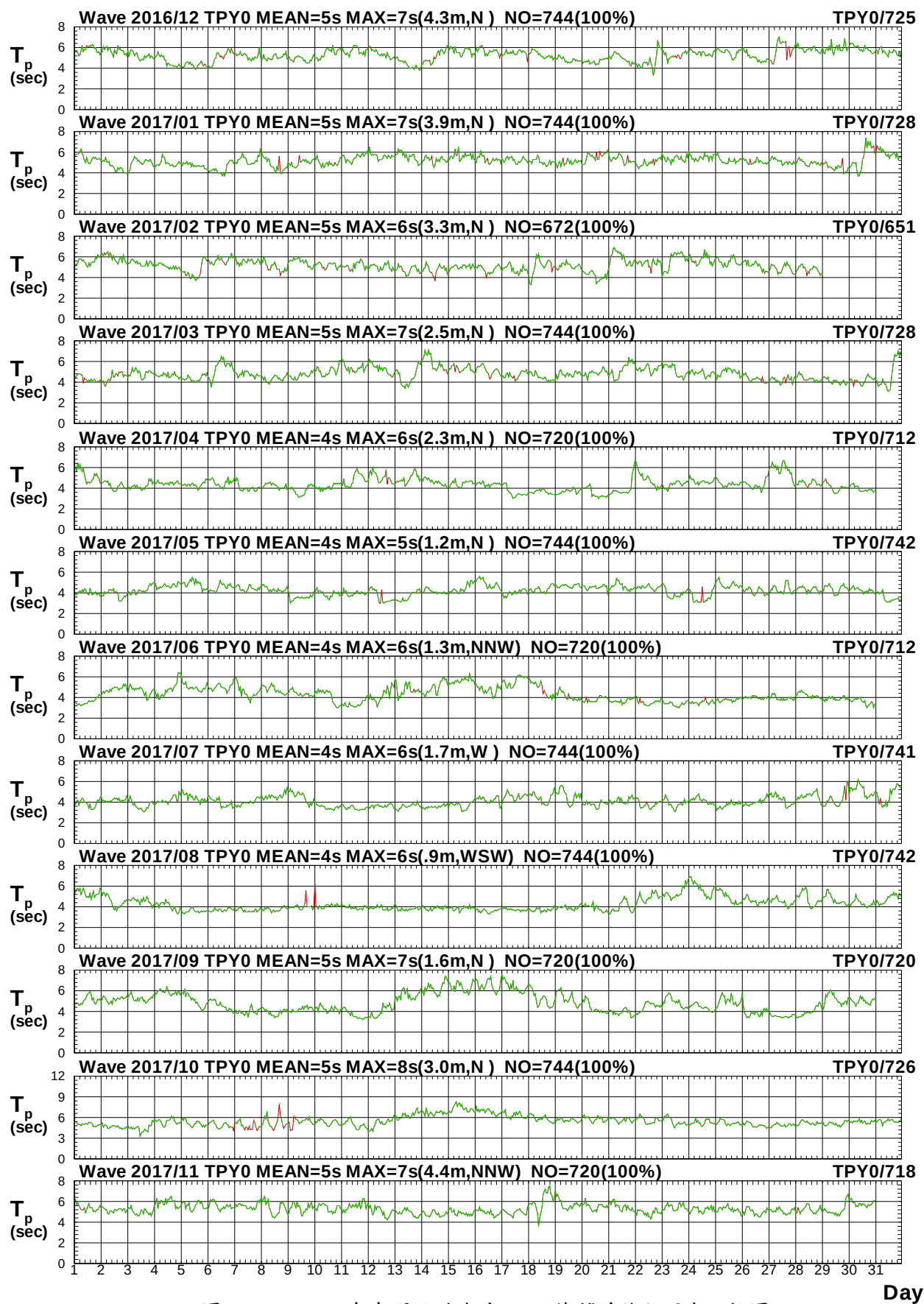


圖2.12b 2017年每月北苗海域 Y 站修補前後之週期比較圖

V16CTPY0.1HA V16CTPY0.1H0 V171TPY0.1HA V171TPY0.1H0 V172TPY0.1HA V172TPY0.1H0
V173TPY0.1HA V173TPY0.1H0 V174TPY0.1HA V174TPY0.1H0 V175TPY0.1HA V175TPY0.1H0

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Wave Direction in Pei-Miao Seas of TPY0 at 2017

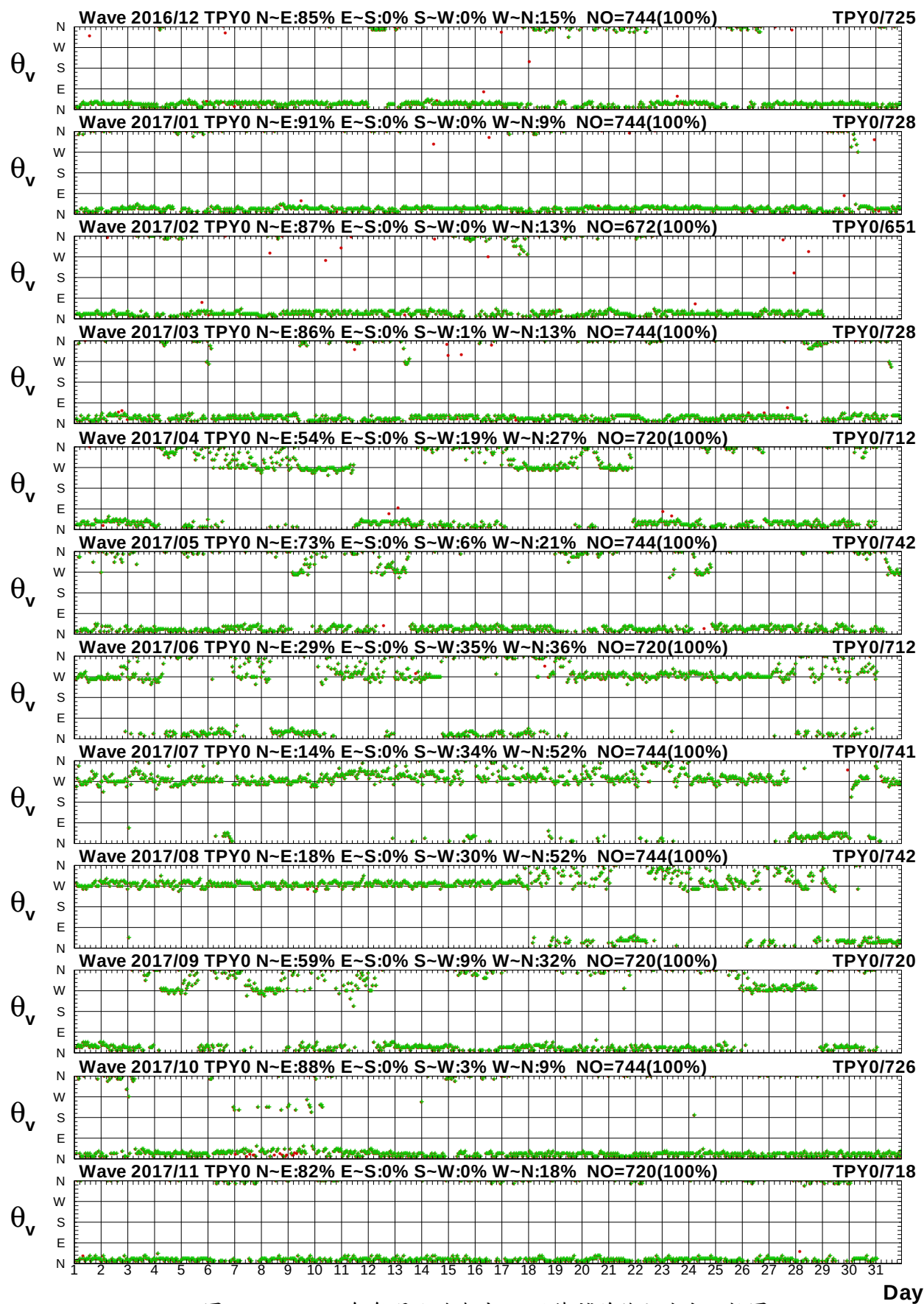


圖2.12c 2017年每月北苗海域 Y 站修補前後之波向比較圖

V16CTPY0.1HA V16CTPY0.1H0 V171TPY0.1HA V171TPY0.1H0 V172TPY0.1HA V172TPY0.1H0
V173TPY0.1HA V173TPY0.1H0 V174TPY0.1HA V174TPY0.1H0 V175TPY0.1HA V175TPY0.1H0

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Wave H_s in Pei-Miao Seas of TPY0 at 2017

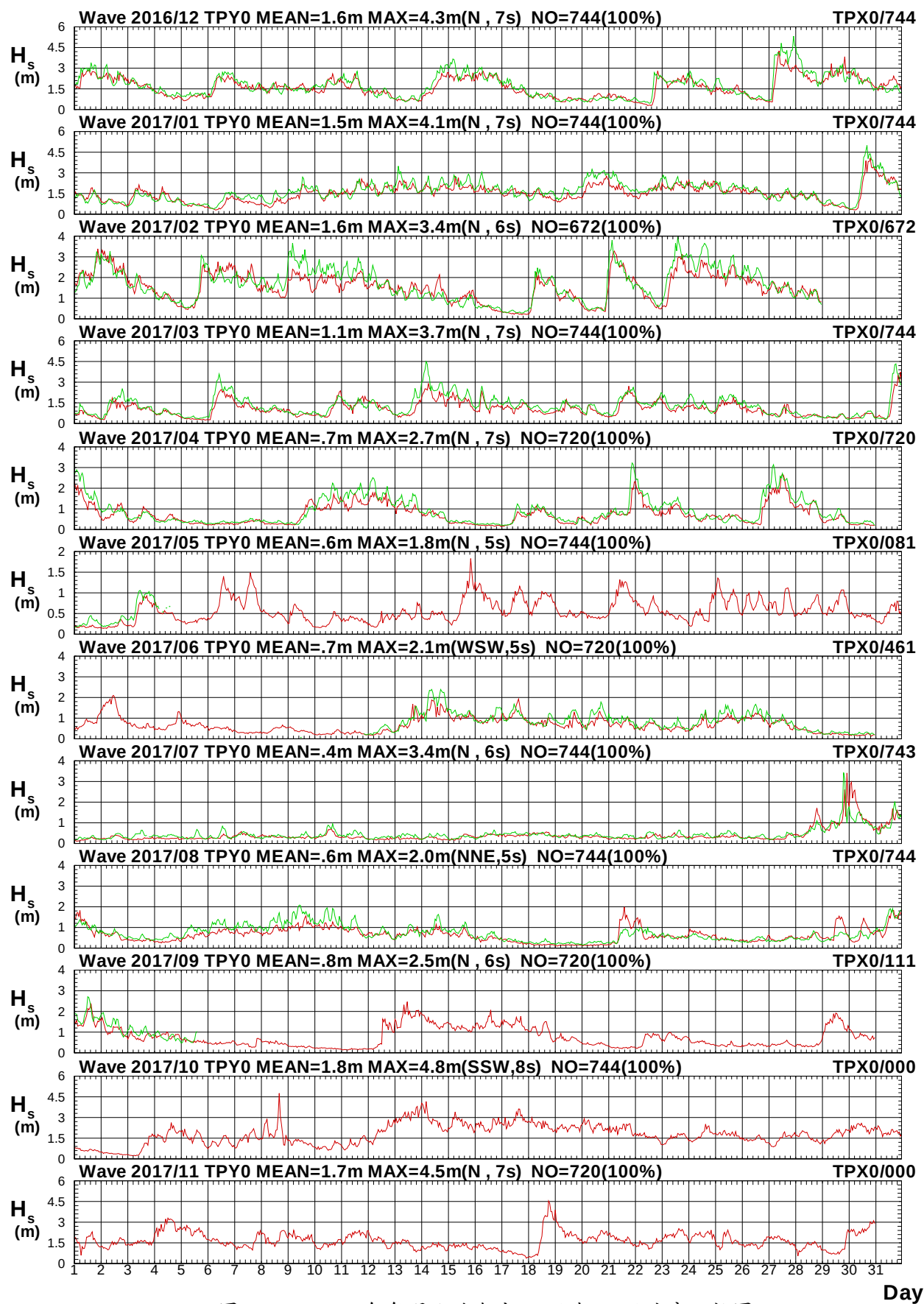


圖2.13a 2017年每月北苗海域 Y 站與 X 站波高比較圖

V16CTPY0.1HA V16CTPX0.1H0 V171TPY0.1HA V171TPX0.1H0 V172TPY0.1HA V172TPX0.1H0
V173TPY0.1HA V173TPX0.1H0 V174TPY0.1HA V174TPX0.1H0 V175TPY0.1HA V175TPX0.1H0

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Wave T_p in Pei-Miao Seas of TPY0 at 2017

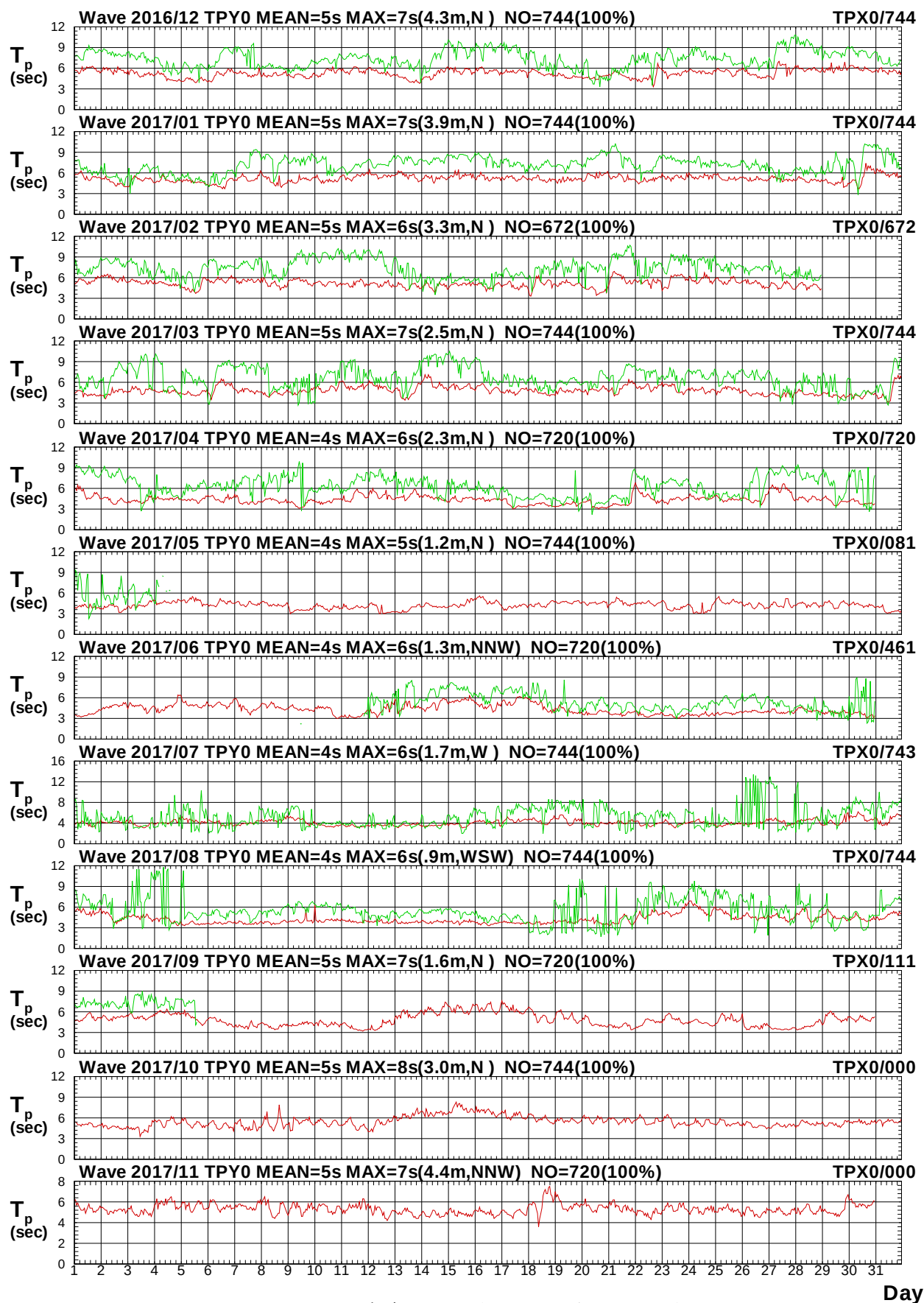


圖2.13b 2017年每月北苗海域 Y 站與 X 站週期比較圖

V16CTPY0.1HA V16CTPX0.1H0 V171TPY0.1HA V171TPX0.1H0 V172TPY0.1HA V172TPX0.1H0
V173TPY0.1HA V173TPX0.1H0 V174TPY0.1HA V174TPX0.1H0 V175TPY0.1HA V175TPX0.1H0

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Wave Direction in Pei-Miao Seas of TPY0 at 2017

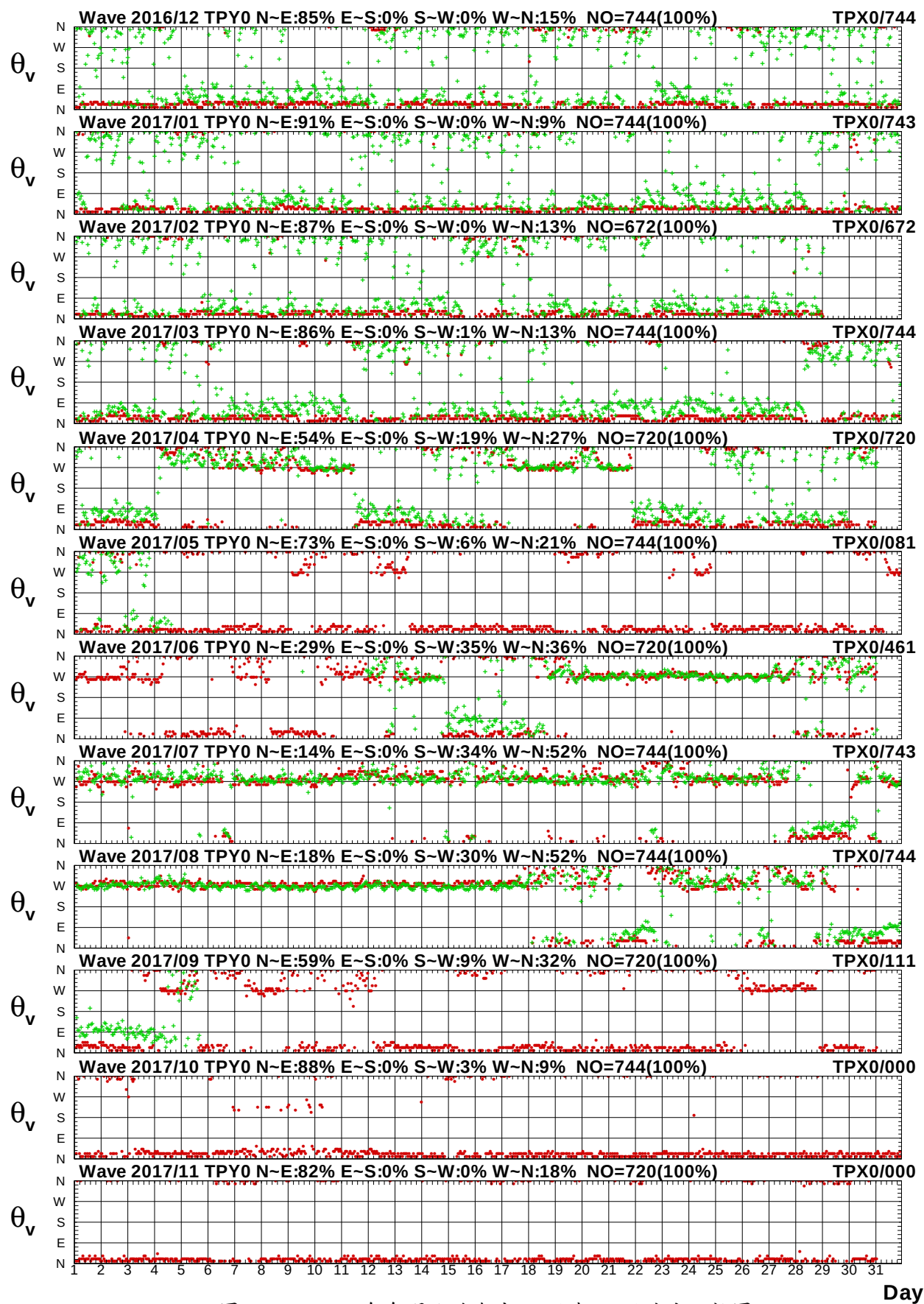


圖2.13c 2017年每月北苗海域 Y 站與 X 站波向比較圖

V16CTPY0.1HA V16CTPX0.1H0 V171TPY0.1HA V171TPX0.1H0 V172TPY0.1HA V172TPX0.1H0
V173TPY0.1HA V173TPX0.1H0 V174TPY0.1HA V174TPX0.1H0 V175TPY0.1HA V175TPX0.1H0

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Wave H_s in Pei-Miao Seas of TPY0 at 2017

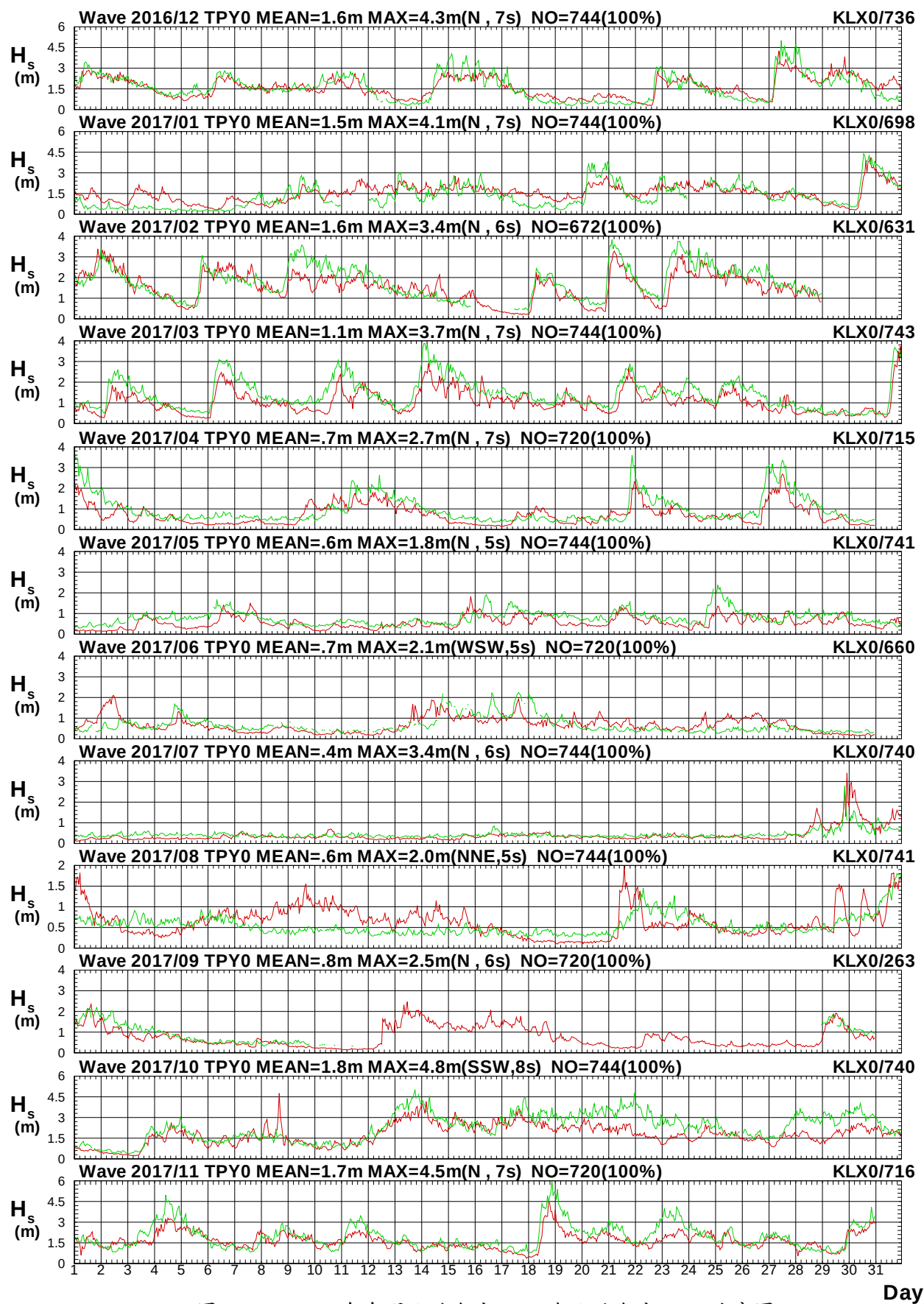


圖2.14a 2017年每月北苗海域 Y 站與北端海域 X 站波高圖

V16CTPY0.1HA V16CKLX0.1H0 V171TPY0.1HA V171KLX0.1H0 V172TPY0.1HA V172KLX0.1H0
V173TPY0.1HA V173KLX0.1H0 V174TPY0.1HA V174KLX0.1H0 V175TPY0.1HA V175KLX0.1H0

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Wave T_p in Pei-Miao Seas of TPY0 at 2017

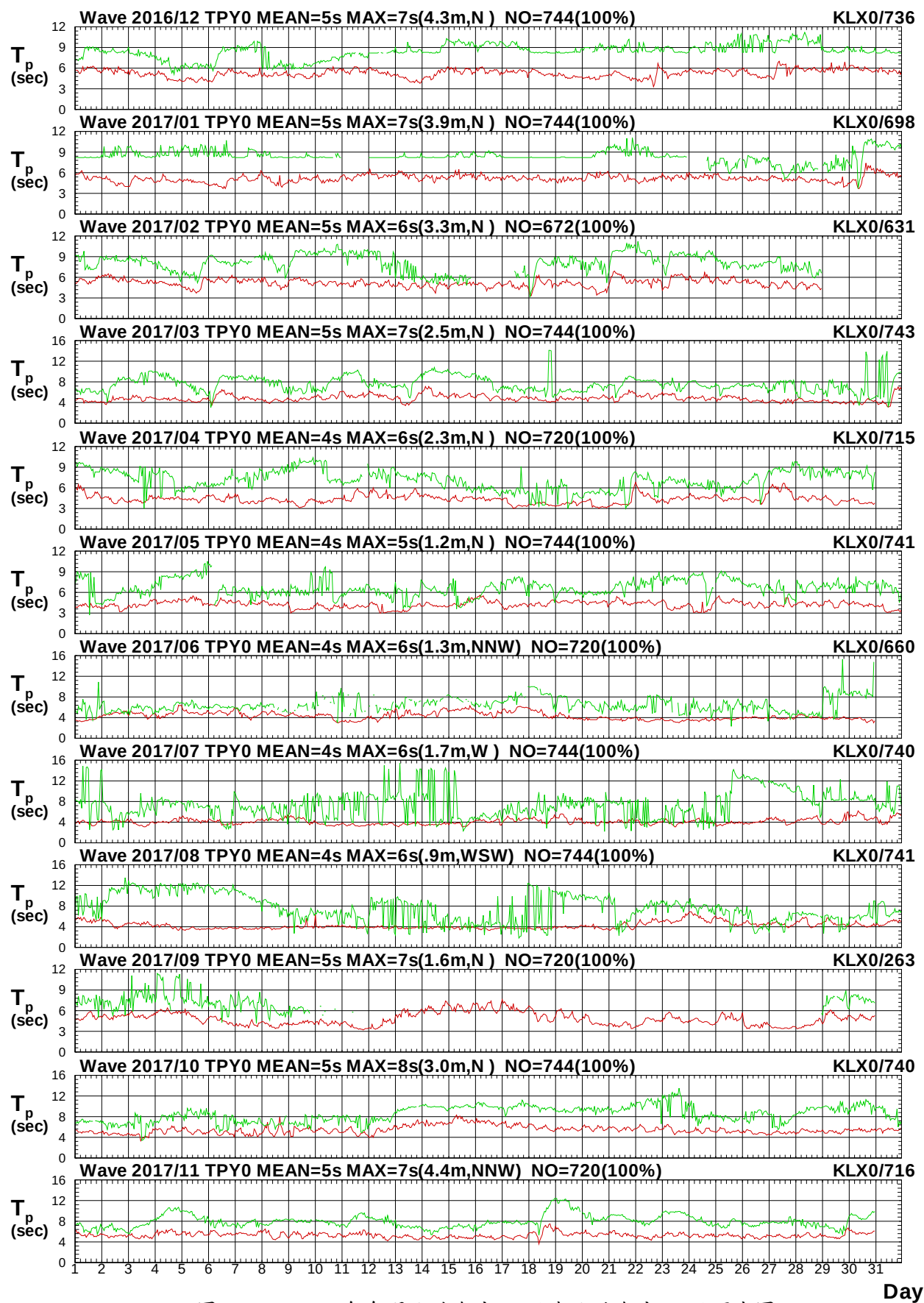


圖2.14b 2017年每月北苗海域 Y 站與北端海域 X 站週期圖

V16CTPY0.1HA V16CKLX0.1H0 V171TPY0.1HA V171KLX0.1H0 V172TPY0.1HA V172KLX0.1H0
V173TPY0.1HA V173KLX0.1H0 V174TPY0.1HA V174KLX0.1H0 V175TPY0.1HA V175KLX0.1H0

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Wave Direction in Pei-Miao Seas of TPY0 at 2017

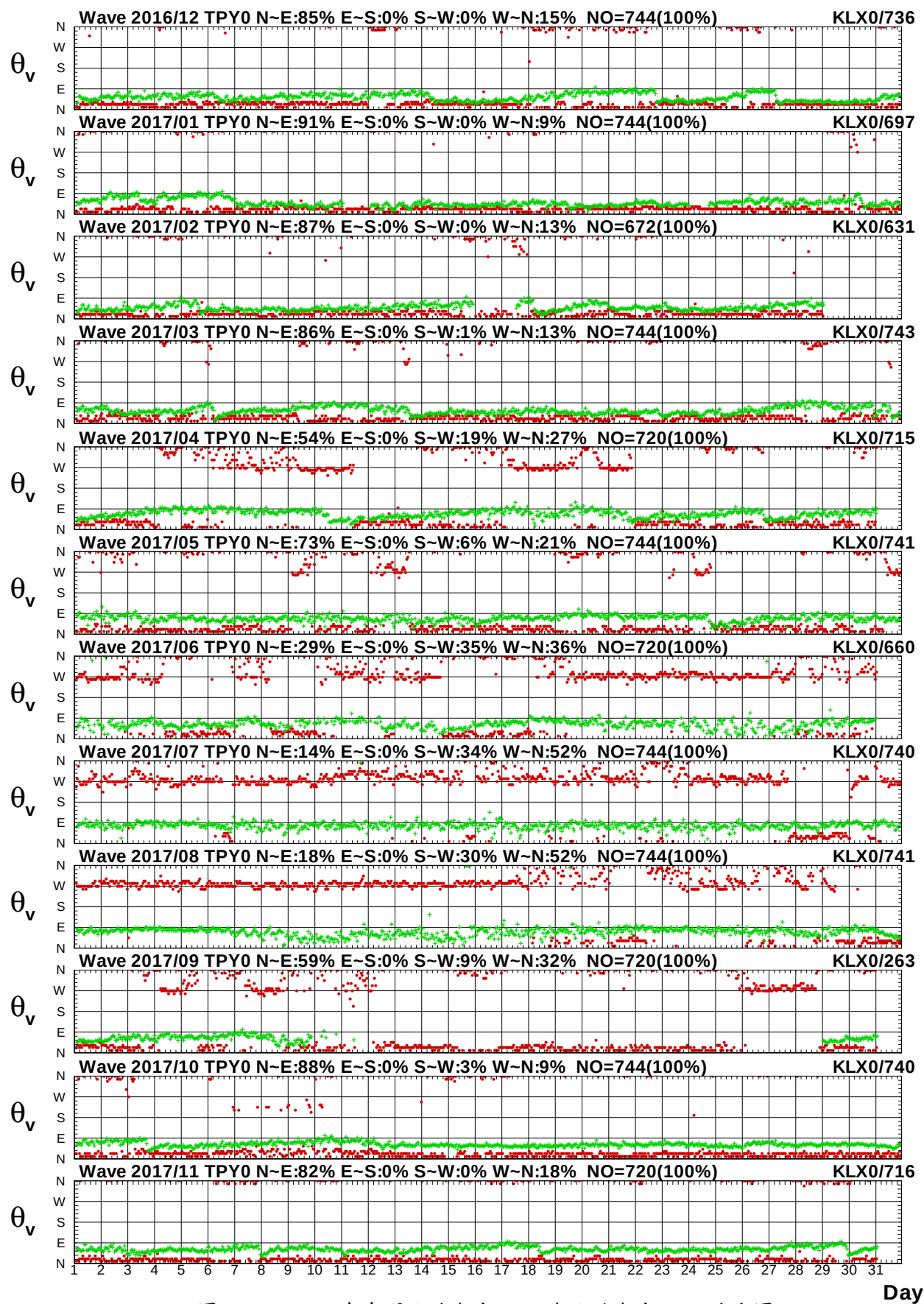


圖2.14c 2017年每月北苗海域 Y 站與北端海域 X 站波向圖

V16CTPY0.1HA V16CKLX0.1H0 V171TPY0.1HA V171KLX0.1H0 V172TPY0.1HA V172KLX0.1H0
V173TPY0.1HA V173KLX0.1H0 V174TPY0.1HA V174KLX0.1H0 V175TPY0.1HA V175KLX0.1H0

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Wave H_s in Pei-Miao Seas of TPY0 at 2017

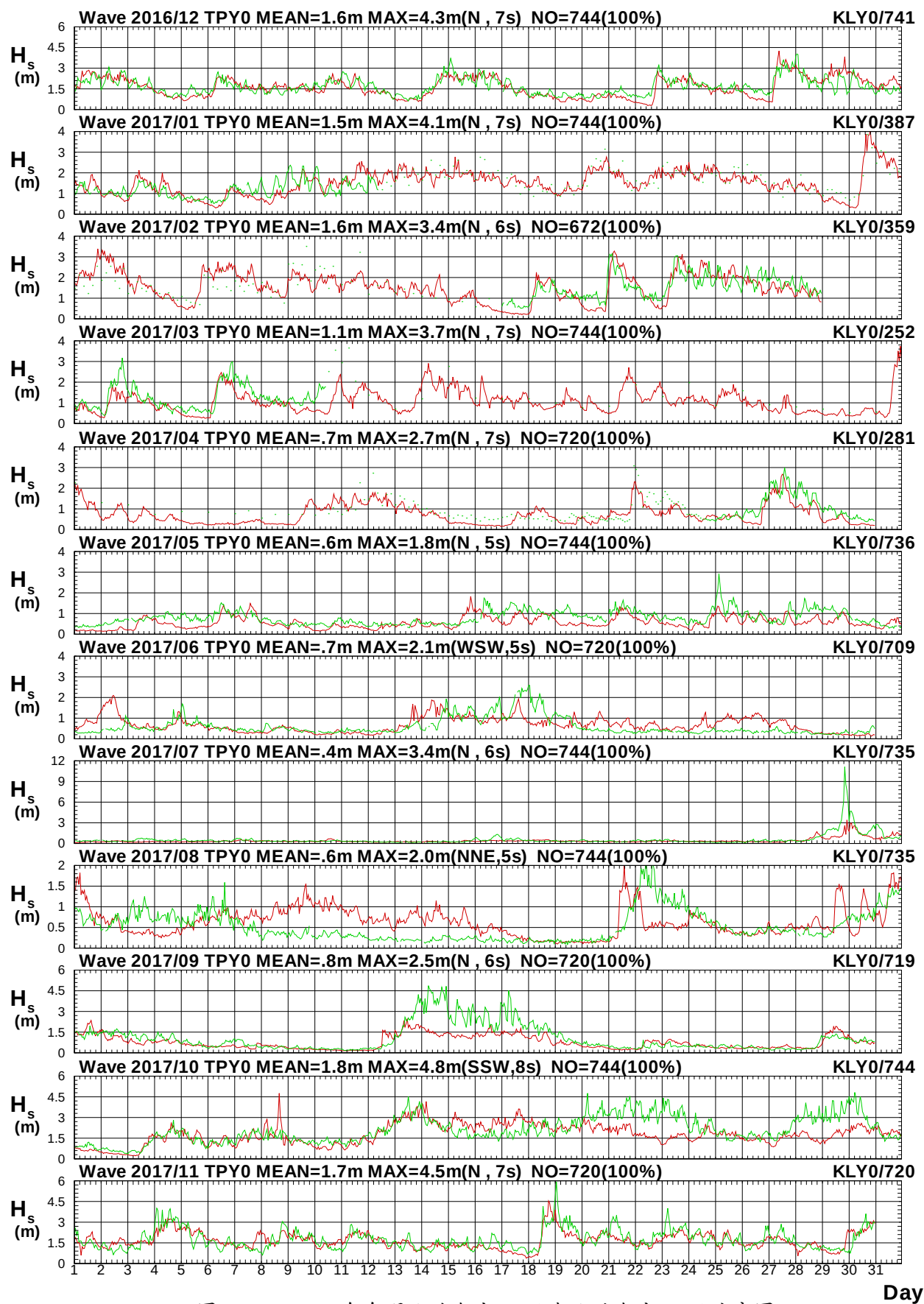


圖2.15a 2017年每月北苗海域 Y 站與北端海域 Y 站波高圖

V16CTPY0.1HA V16CKLY0.1H0 V171TPY0.1HA V171KLY0.1H0 V172TPY0.1HA V172KLY0.1H0
V173TPY0.1HA V173KLY0.1H0 V174TPY0.1HA V174KLY0.1H0 V175TPY0.1HA V175KLY0.1H0

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Wave T_p in Pei-Miao Seas of TPY0 at 2017

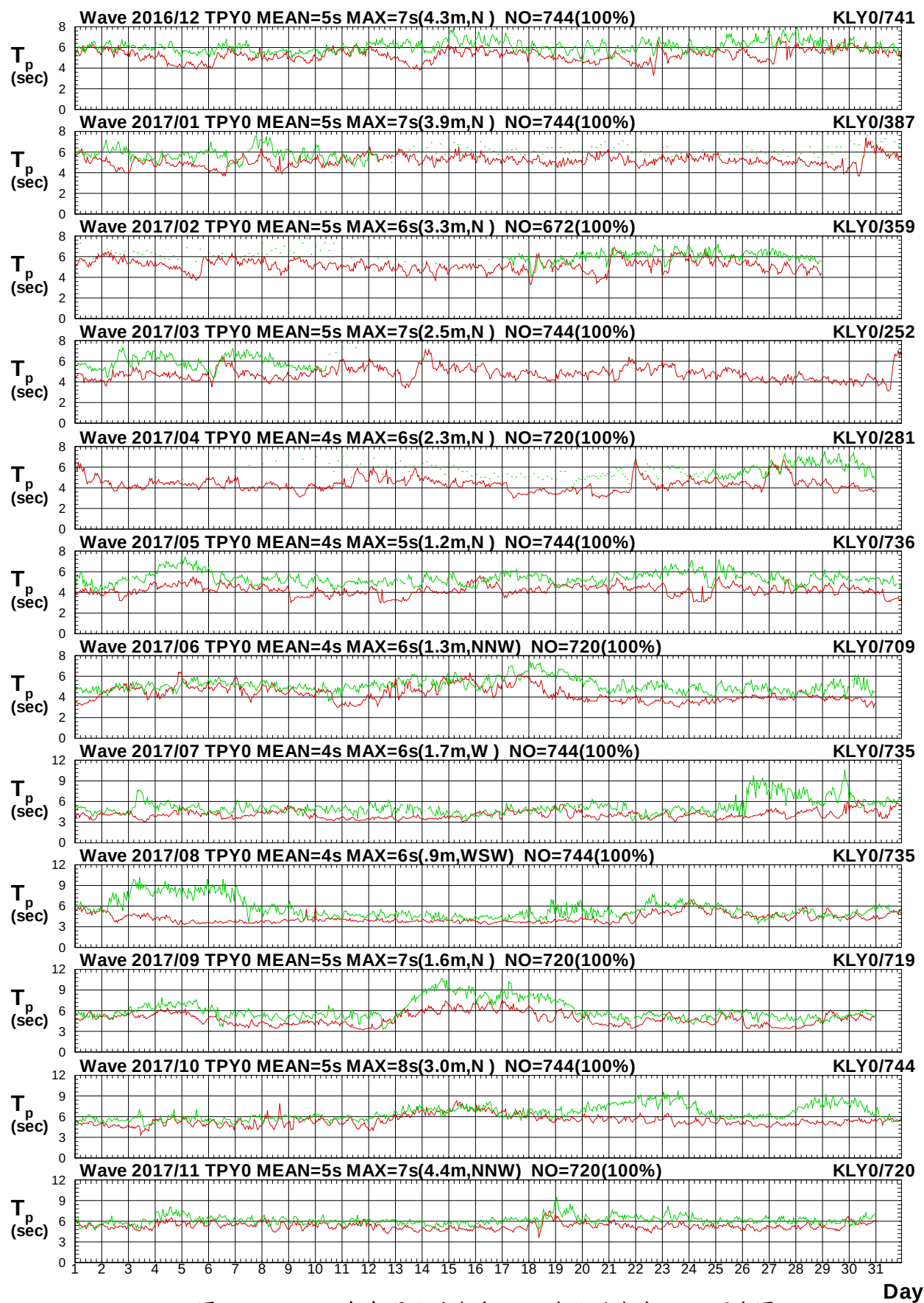


圖2.15b 2017年每月北苗海域 Y 站與北端海域 Y 站週期圖

V16CTPY0.1HA V16CKLY0.1H0 V171TPY0.1HA V171KLY0.1H0 V172TPY0.1HA V172KLY0.1H0
V173TPY0.1HA V173KLY0.1H0 V174TPY0.1HA V174KLY0.1H0 V175TPY0.1HA V175KLY0.1H0

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Wave Direction in Pei-Miao Seas of TPY0 at 2017

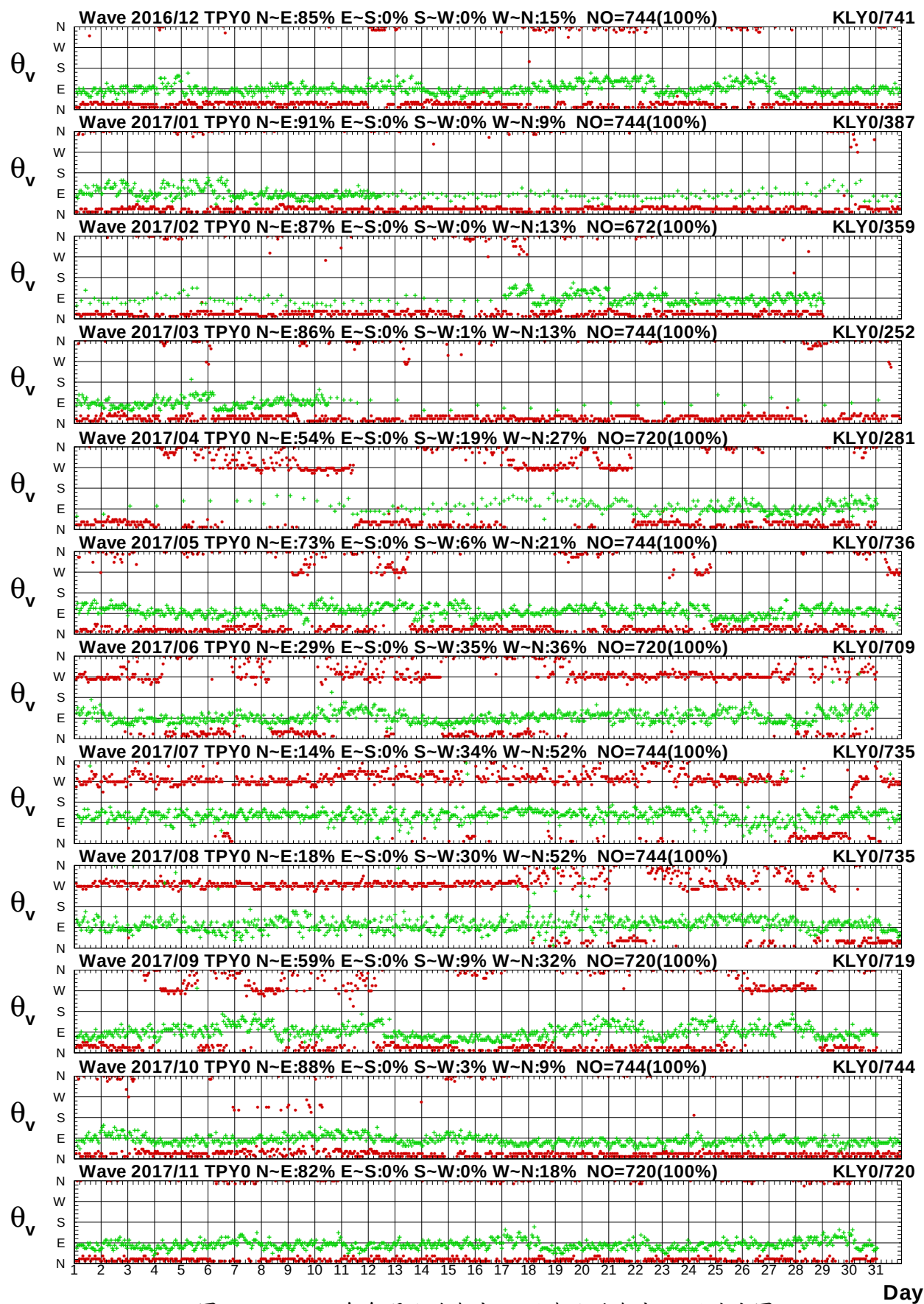


圖2.15c 2017年每月北苗海域 Y 站與北端海域 Y 站波向圖

V16CTPY0.1HA V16CKLY0.1H0 V171TPY0.1HA V171KLY0.1H0 V172TPY0.1HA V172KLY0.1H0
V173TPY0.1HA V173KLY0.1H0 V174TPY0.1HA V174KLY0.1H0 V175TPY0.1HA V175KLY0.1H0

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Wave H_s in Pei-Miao Seas of TPY0 at 2017

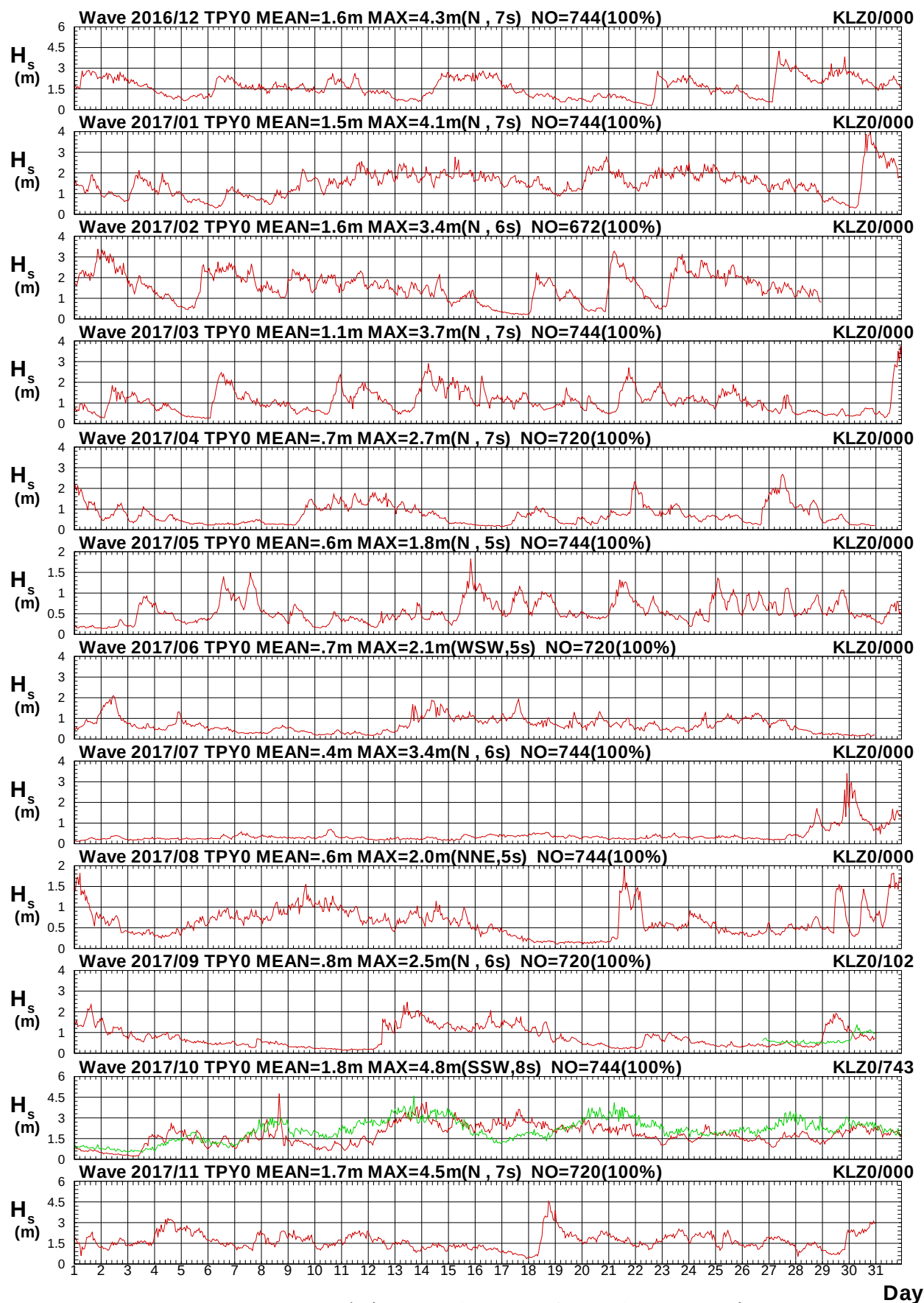


圖2.16a 2017年每月北苗海域 Y 站與北端海域 Z 站波高圖

V16CTPY0.1HA V16CKLZ0.1H0 V171TPY0.1HA V171KLZ0.1H0 V172TPY0.1HA V172KLZ0.1H0
V173TPY0.1HA V173KLZ0.1H0 V174TPY0.1HA V174KLZ0.1H0 V175TPY0.1HA V175KLZ0.1H0

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Wave T_p in Pei-Miao Seas of TPY0 at 2017

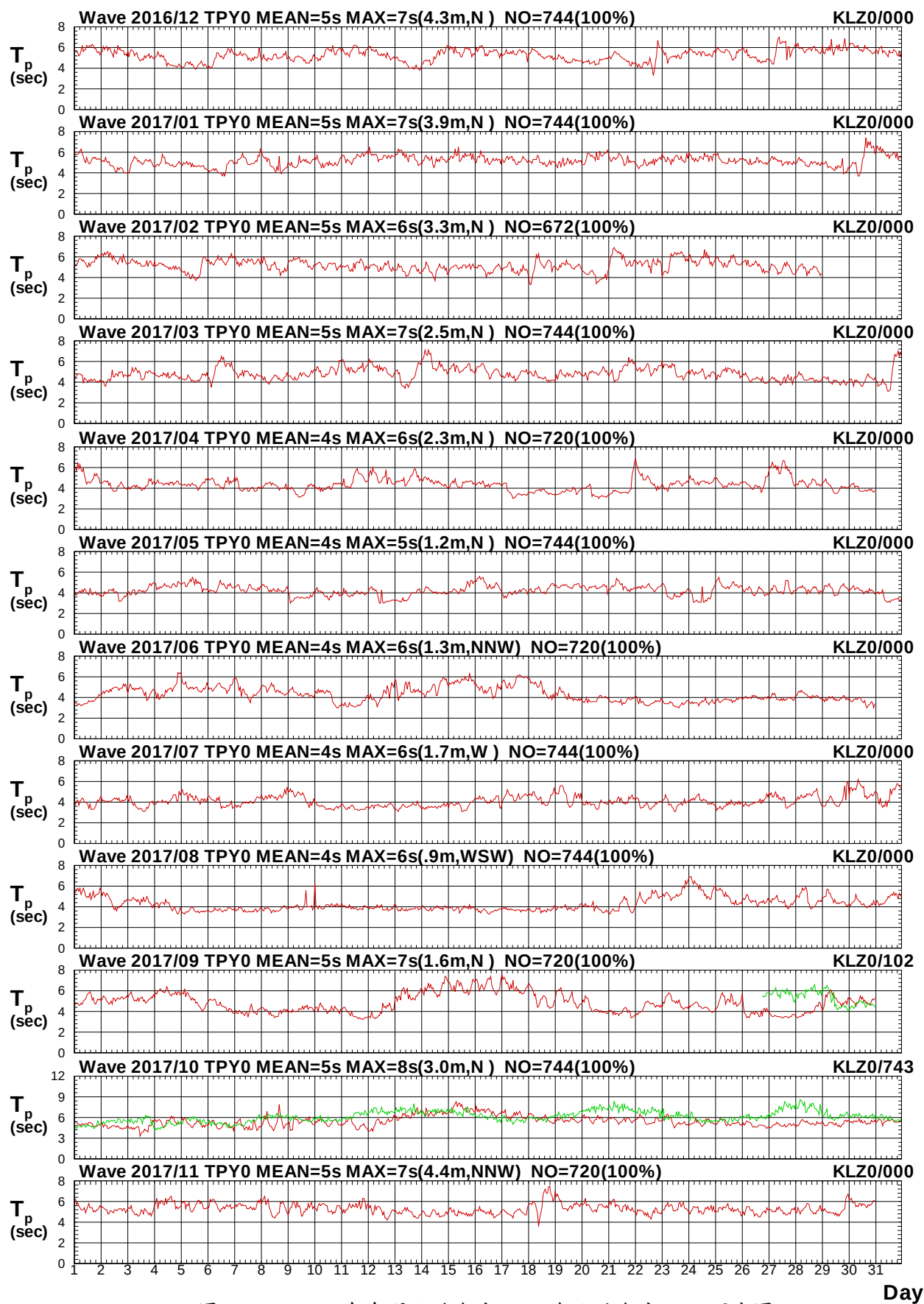


圖2.16b 2017年每月北苗海域 Y 站與北端海域 Z 站週期圖

V16CTPY0.1HA V16CKLZ0.1H0 V171TPY0.1HA V171KLZ0.1H0 V172TPY0.1HA V172KLZ0.1H0
V173TPY0.1HA V173KLZ0.1H0 V174TPY0.1HA V174KLZ0.1H0 V175TPY0.1HA V175KLZ0.1H0

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Wave Direction in Pei-Miao Seas of TPY0 at 2017

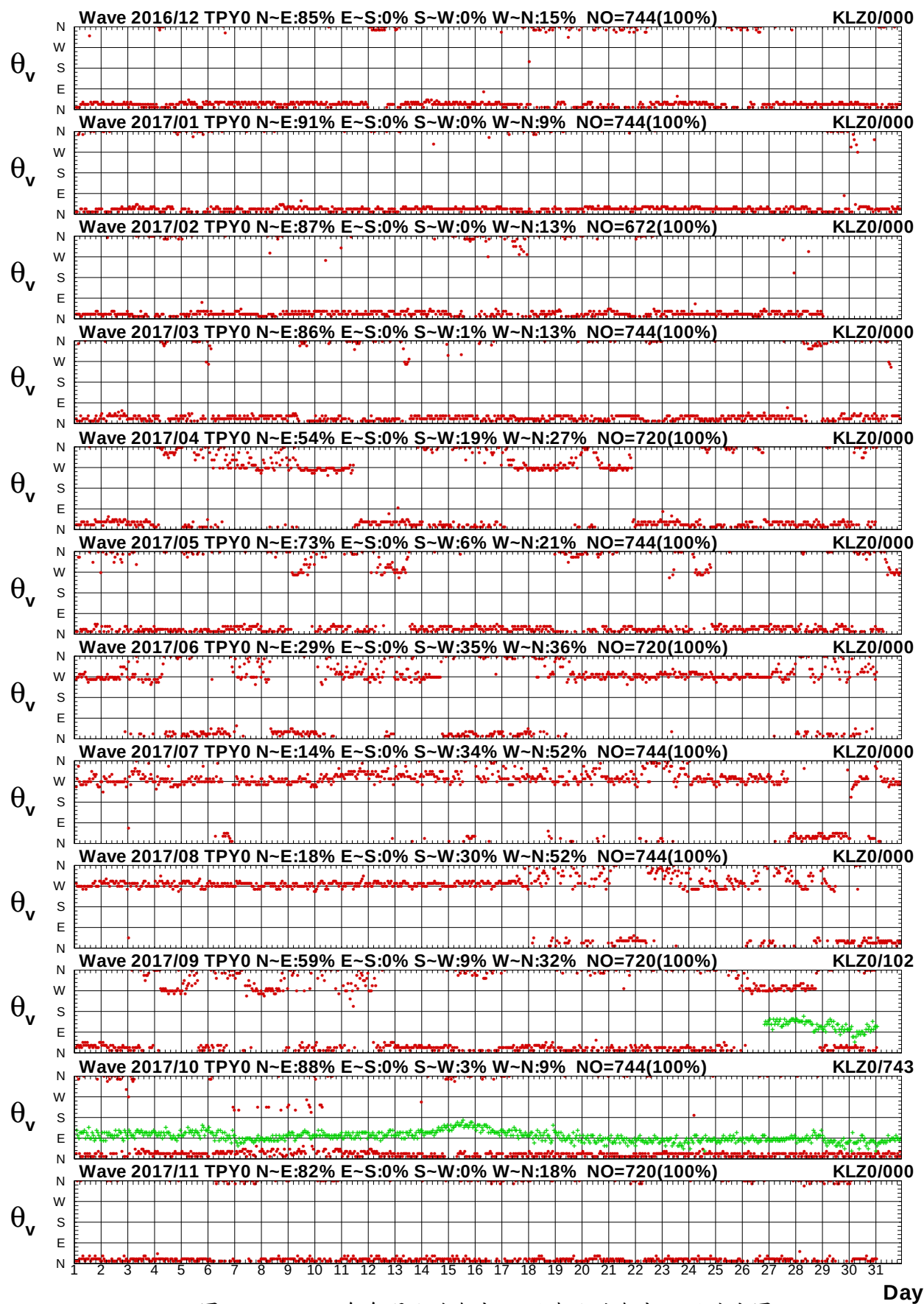


圖2.16c 2017年每月北苗海域 Y 站與北端海域 Z 站波向圖

V16CTPY0.1HA V16CKLZ0.1H0 V171TPY0.1HA V171KLZ0.1H0 V172TPY0.1HA V172KLZ0.1H0
V173TPY0.1HA V173KLZ0.1H0 V174TPY0.1HA V174KLZ0.1H0 V175TPY0.1HA V175KLZ0.1H0

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Wave H_s in Pei-Miao Seas of TPY0 at 2017

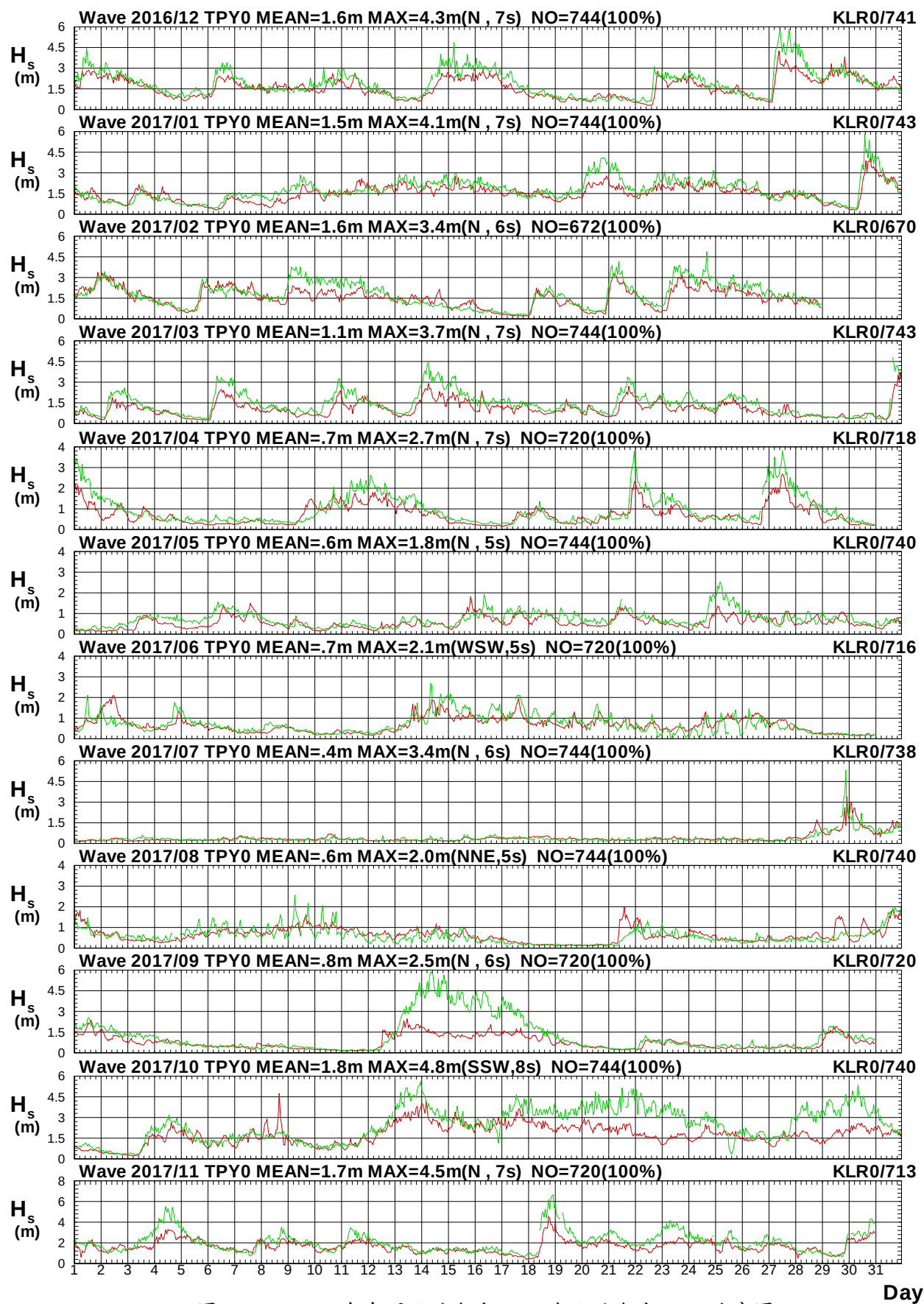


圖2.17a 2017年每月北苗海域 Y 站與北端海域 R 站波高圖

V16CTPY0.1HA V16CKLR0.1H0 V171TPY0.1HA V171KLR0.1H0 V172TPY0.1HA V172KLR0.1H0
V173TPY0.1HA V173KLR0.1H0 V174TPY0.1HA V174KLR0.1H0 V175TPY0.1HA V175KLR0.1H0

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Wave T_p in Pei-Miao Seas of TPY0 at 2017

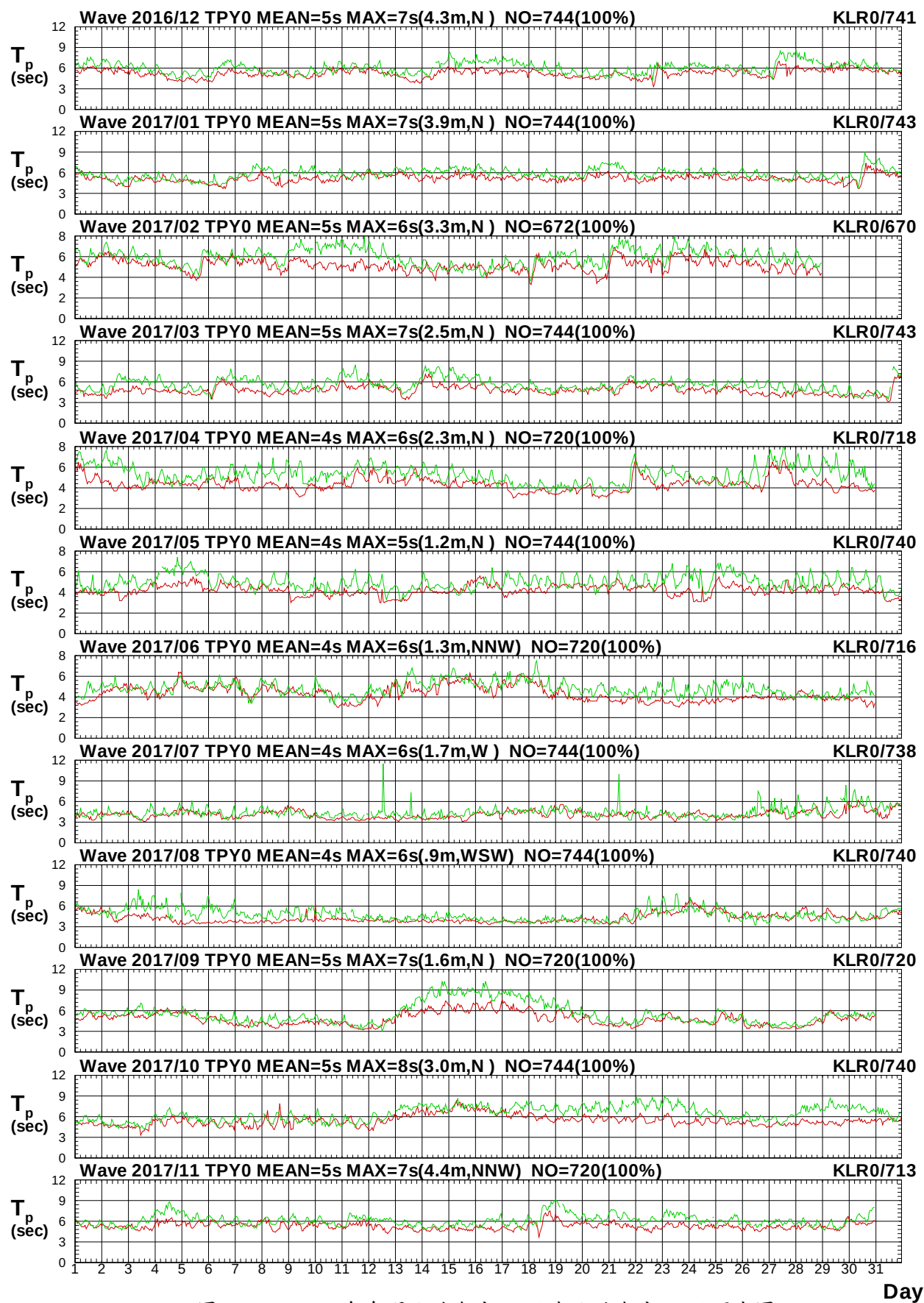


圖2.17b 2017年每月北苗海域 Y 站與北端海域 R 站週期圖

V16CTPY0.1HA V16CKLR0.1H0 V171TPY0.1HA V171KLR0.1H0 V172TPY0.1HA V172KLR0.1H0
V173TPY0.1HA V173KLR0.1H0 V174TPY0.1HA V174KLR0.1H0 V175TPY0.1HA V175KLR0.1H0

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Wave Direction in Pei-Miao Seas of TPY0 at 2017

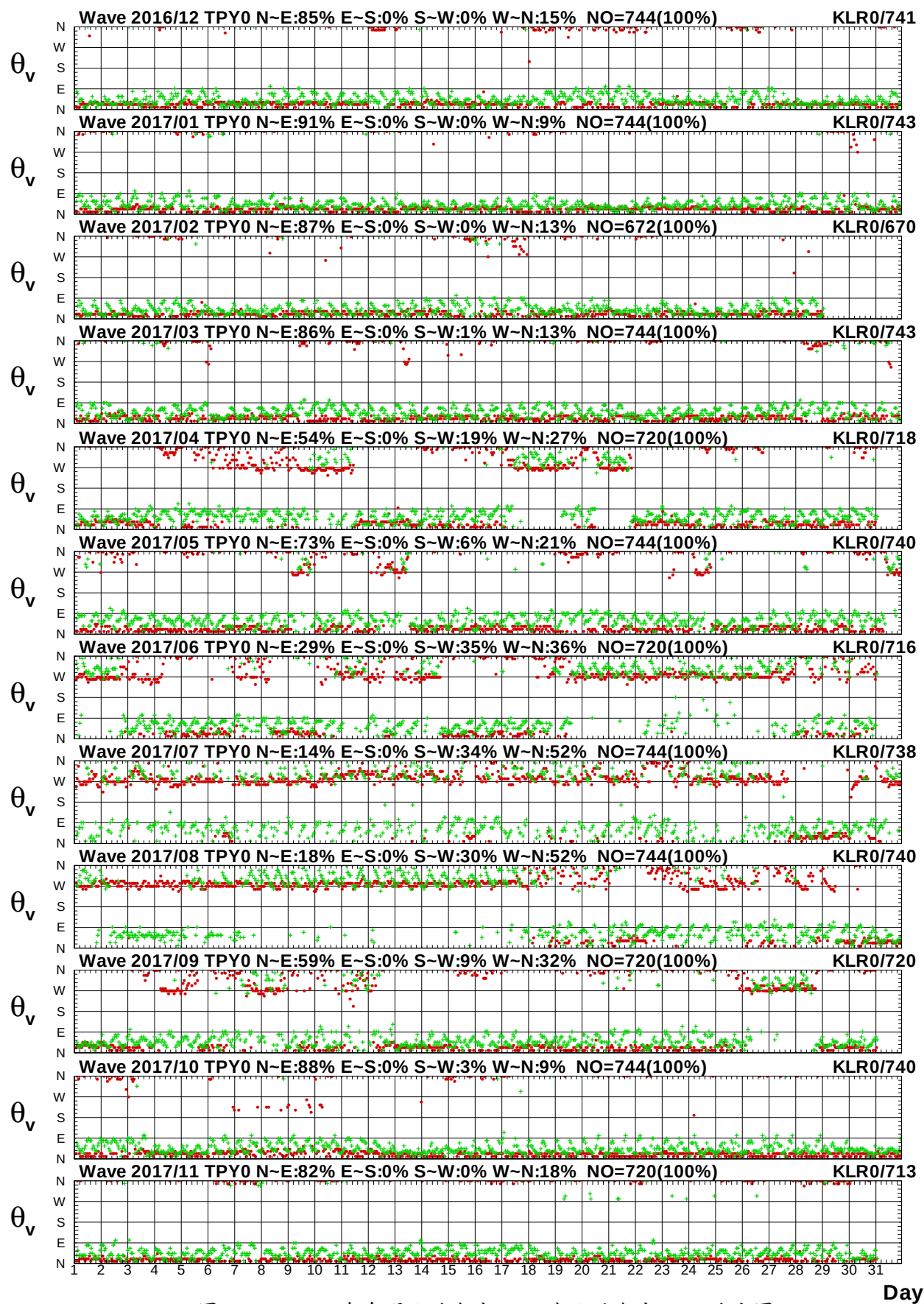


圖2.17c 2017年每月北苗海域 Y 站與北端海域 R 站波向圖

V16CTPY0.1HA V16CKLR0.1H0 V171TPY0.1HA V171KLR0.1H0 V172TPY0.1HA V172KLR0.1H0
V173TPY0.1HA V173KLR0.1H0 V174TPY0.1HA V174KLR0.1H0 V175TPY0.1HA V175KLR0.1H0

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Wave H_s in Pei-Miao Seas of TPY0 at 2017

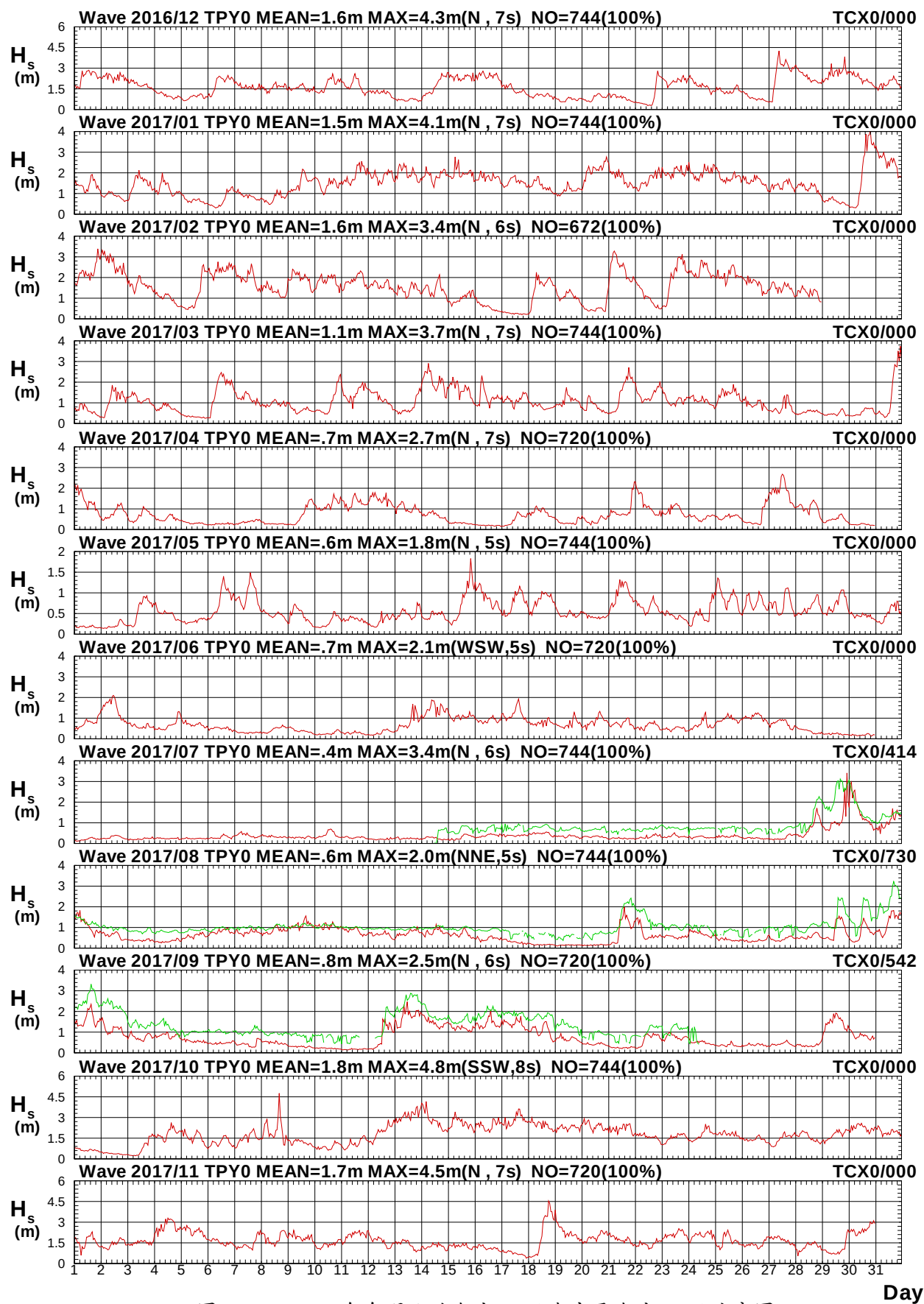


圖2.18a 2017年每月北苗海域 Y 站與中雲海域 X 站波高圖

V16CTPY0.1HA V16CTCX0.1H0 V171TPY0.1HA V171TCX0.1H0 V172TPY0.1HA V172TCX0.1H0
V173TPY0.1HA V173TCX0.1H0 V174TPY0.1HA V174TCX0.1H0 V175TPY0.1HA V175TCX0.1H0

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Wave T_p in Pei-Miao Seas of TPY0 at 2017

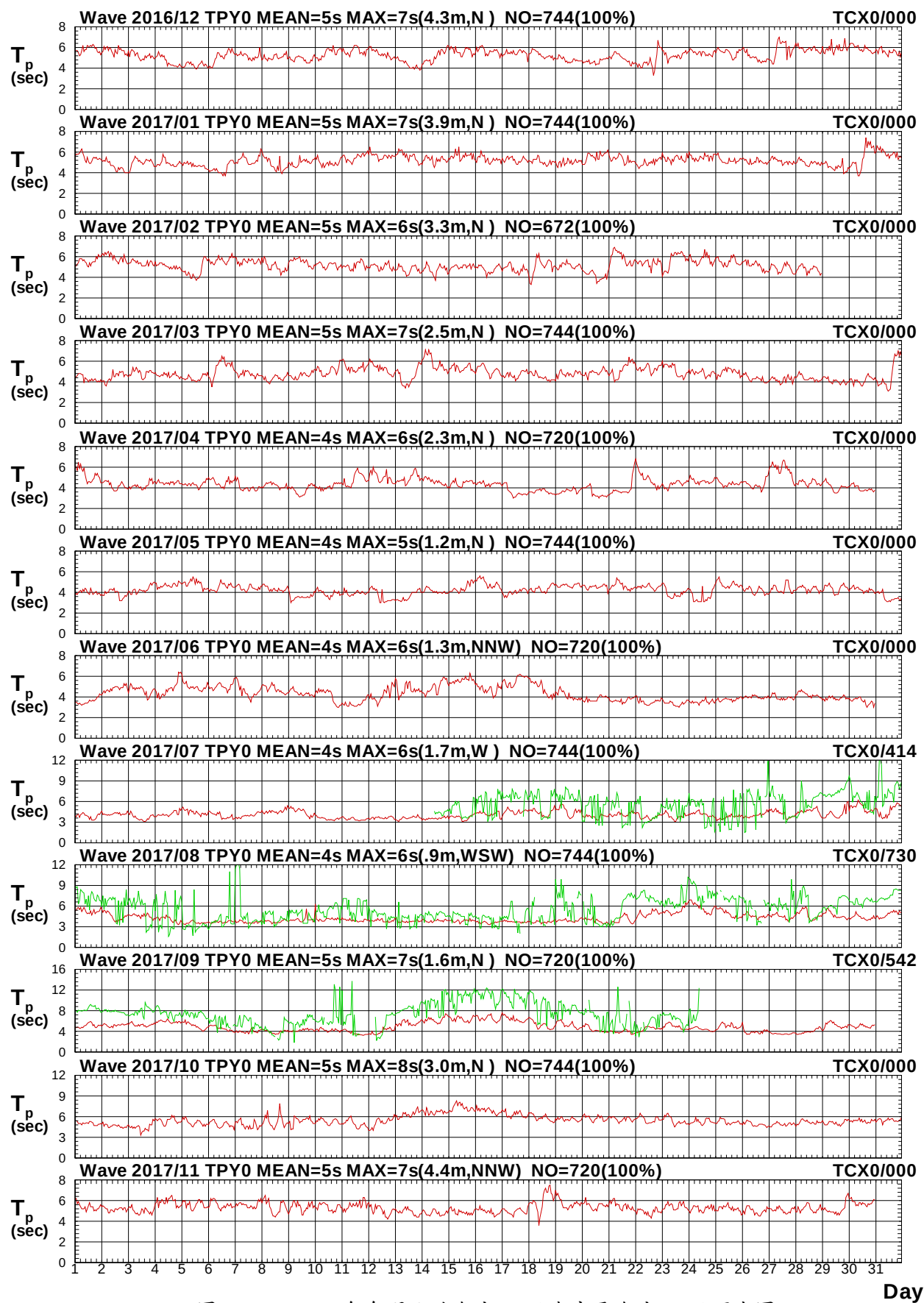


圖2.18b 2017年每月北苗海域 Y 站與中雲海域 X 站週期圖

V16CTPY0.1HA V16CTCX0.1H0 V171TPY0.1HA V171TCX0.1H0 V172TPY0.1HA V172TCX0.1H0
V173TPY0.1HA V173TCX0.1H0 V174TPY0.1HA V174TCX0.1H0 V175TPY0.1HA V175TCX0.1H0

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Wave Direction in Pei-Miao Seas of TPY0 at 2017

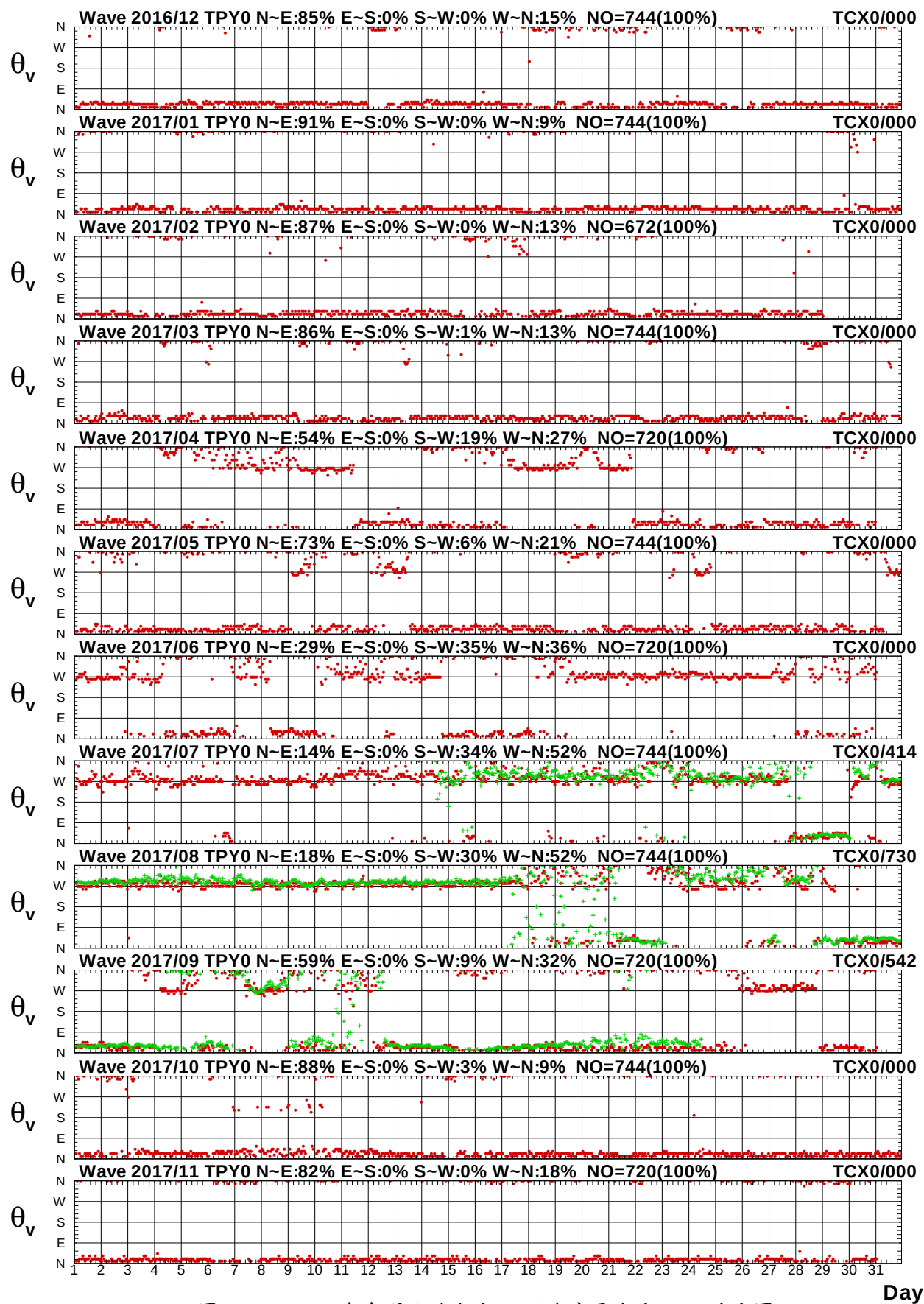


圖2.18c 2017年每月北苗海域 Y 站與中雲海域 X 站波向圖

V16CTPY0.1HA V16CTCX0.1H0 V171TPY0.1HA V171TCX0.1H0 V172TPY0.1HA V172TCX0.1H0
V173TPY0.1HA V173TCX0.1H0 V174TPY0.1HA V174TCX0.1H0 V175TPY0.1HA V175TCX0.1H0

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Wave H_s in Pei-Miao Seas of TPY0 at 2017

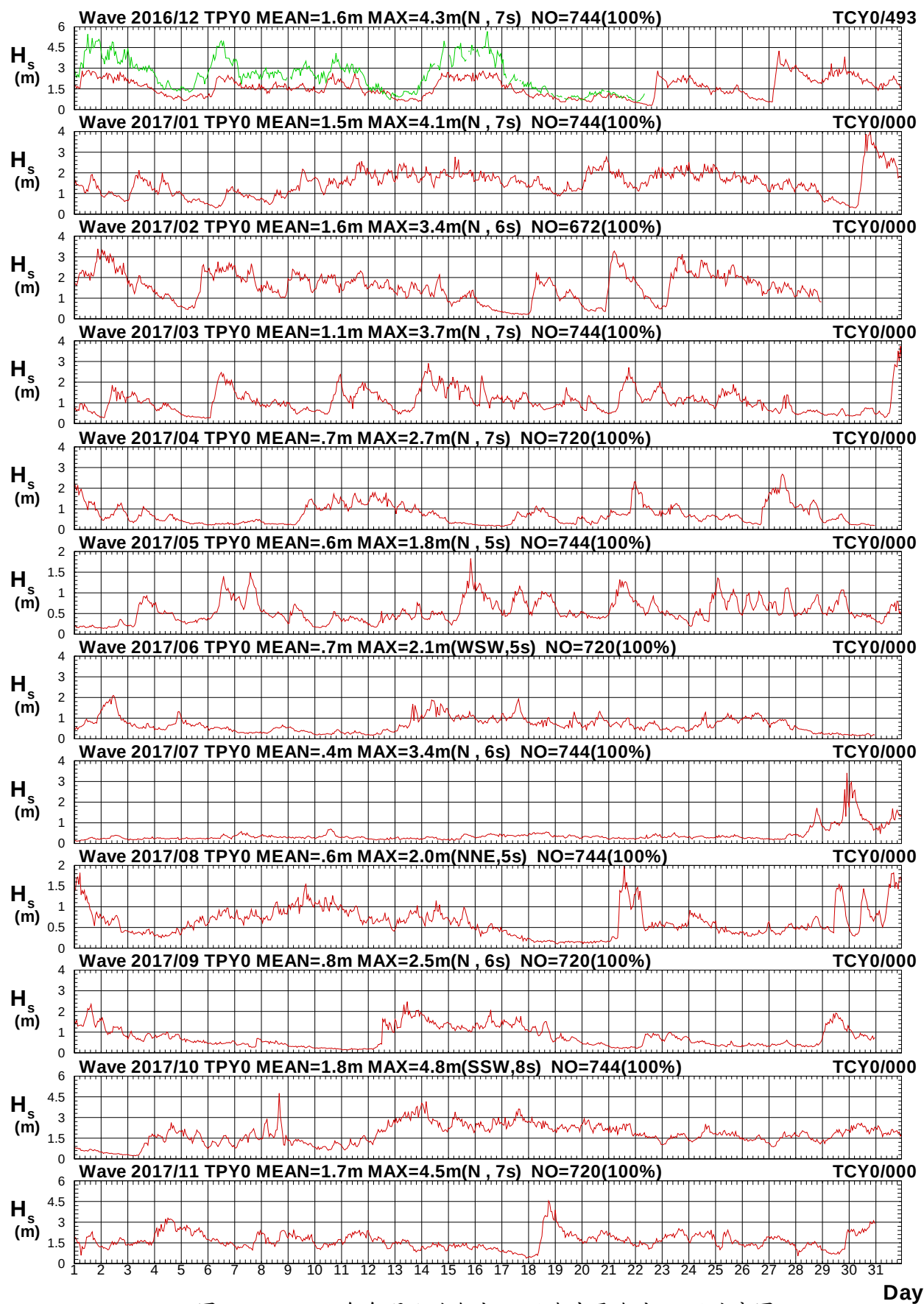


圖2.19a 2017年每月北苗海域 Y 站與中雲海域 Y 站波高圖

V16CTPY0.1HA V16CTCY0.1H0 V171TPY0.1HA V171TCY0.1H0 V172TPY0.1HA V172TCY0.1H0
V173TPY0.1HA V173TCY0.1H0 V174TPY0.1HA V174TCY0.1H0 V175TPY0.1HA V175TCY0.1H0

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Wave T_p in Pei-Miao Seas of TPY0 at 2017

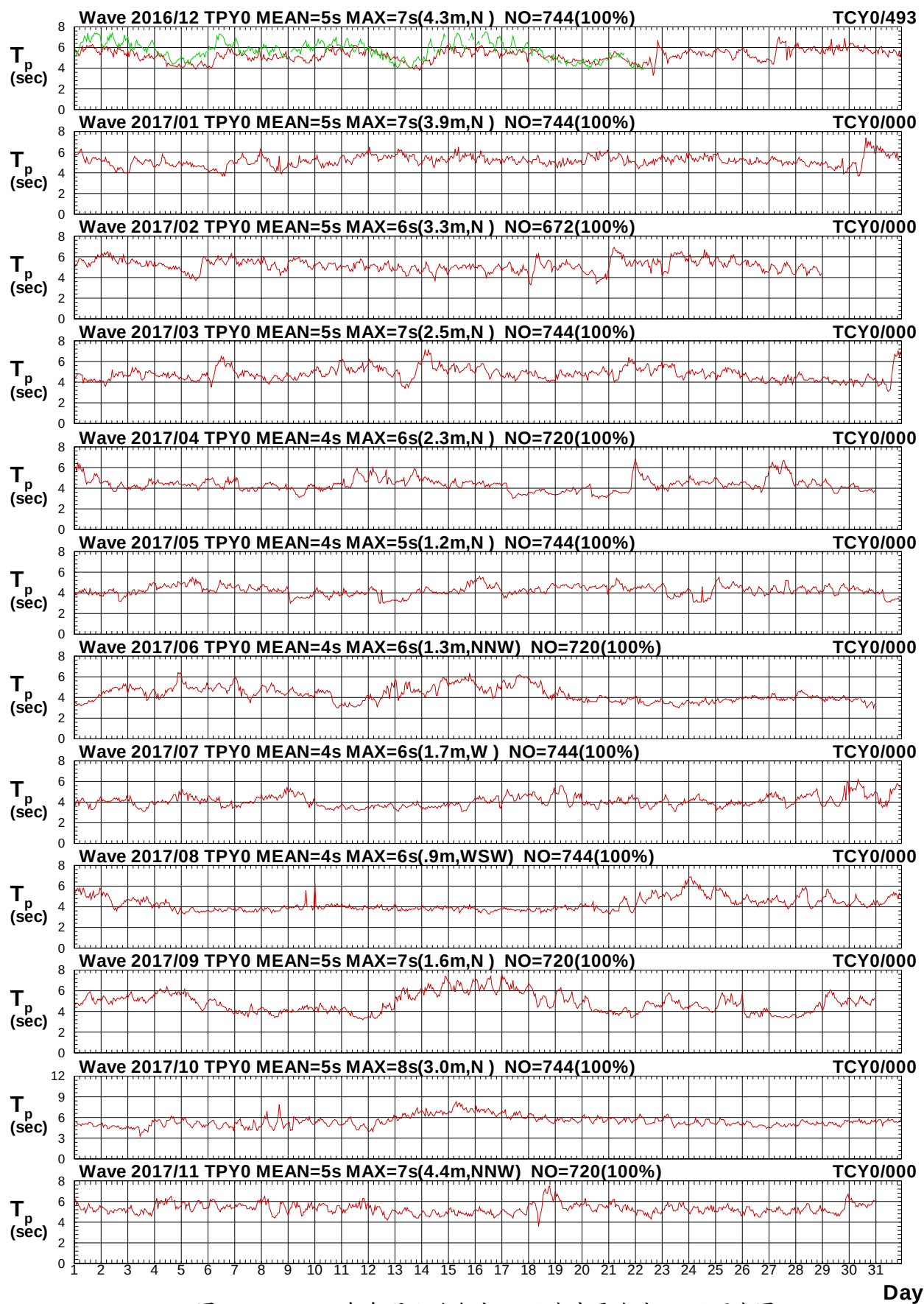


圖2.19b 2017年每月北苗海域 Y 站與中雲海域 Y 站週期圖

V16CTPY0.1HA V16CTCY0.1H0 V171TPY0.1HA V171TCY0.1H0 V172TPY0.1HA V172TCY0.1H0
V173TPY0.1HA V173TCY0.1H0 V174TPY0.1HA V174TCY0.1H0 V175TPY0.1HA V175TCY0.1H0

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Wave Direction in Pei-Miao Seas of TPY0 at 2017

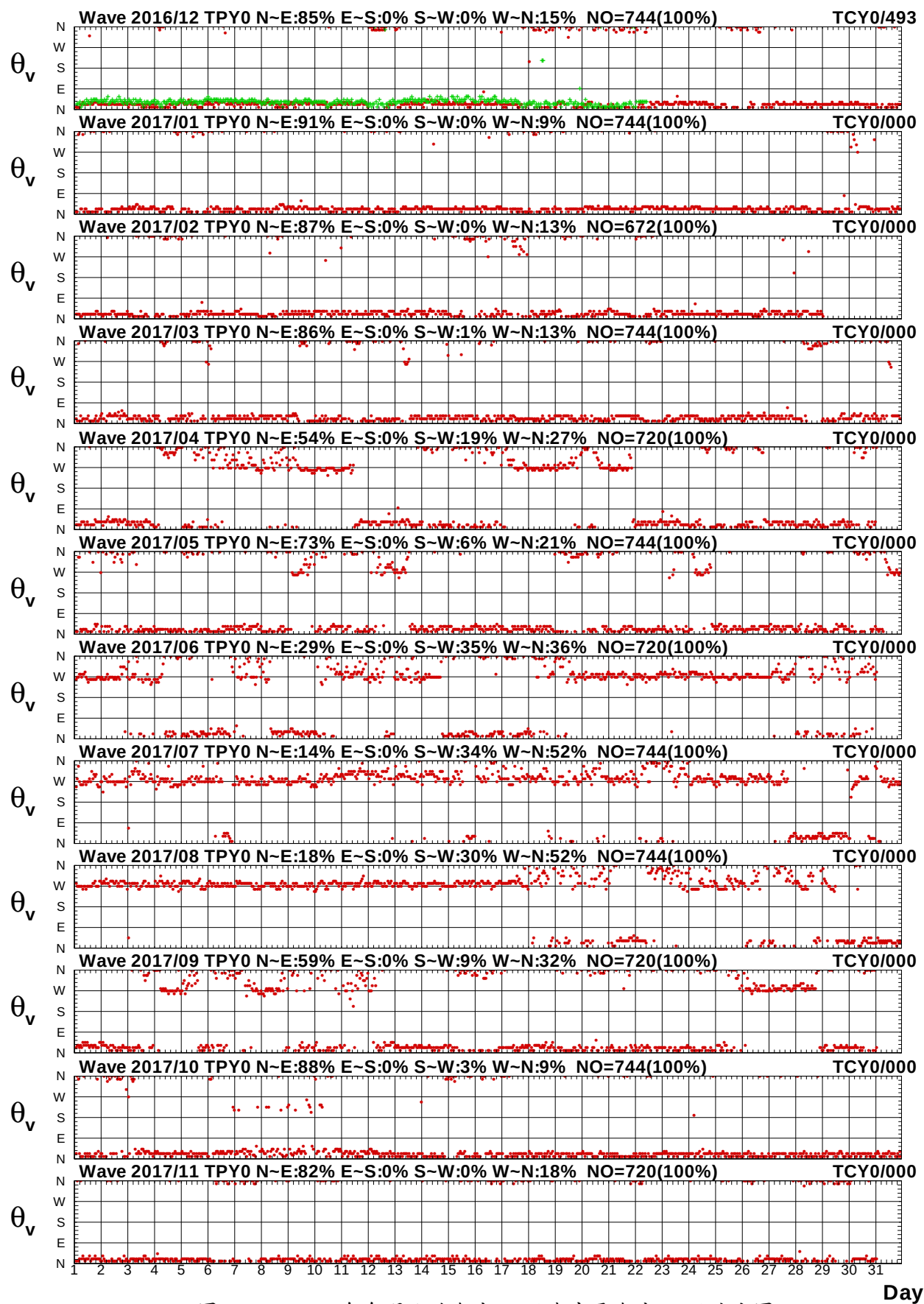


圖2.19c 2017年每月北苗海域 Y 站與中雲海域 Y 站波向圖

V16CTPY0.1HA V16CTCY0.1H0 V171TPY0.1HA V171TCY0.1H0 V172TPY0.1HA V172TCY0.1H0
V173TPY0.1HA V173TCY0.1H0 V174TPY0.1HA V174TCY0.1H0 V175TPY0.1HA V175TCY0.1H0

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Wave H_s in Pei-Miao Seas of TPY0 at 2017

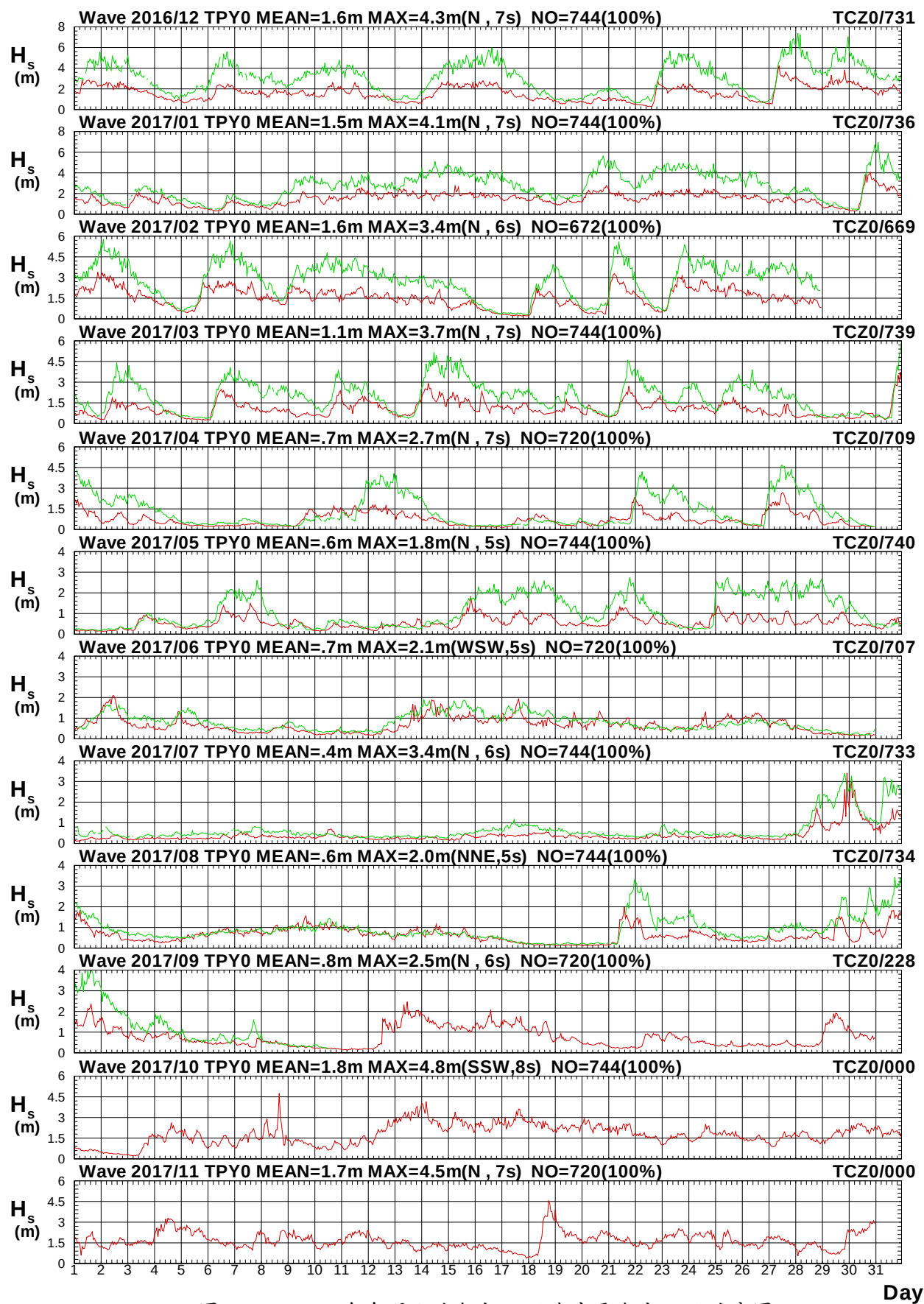


圖2.20a 2017年每月北苗海域 Y 站與中雲海域 Z 站波高圖

V16CTPY0.1HA V16CTCZ0.1H0 V171TPY0.1HA V171TCZ0.1H0 V172TPY0.1HA V172TCZ0.1H0
V173TPY0.1HA V173TCZ0.1H0 V174TPY0.1HA V174TCZ0.1H0 V175TPY0.1HA V175TCZ0.1H0

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Wave T_p in Pei-Miao Seas of TPY0 at 2017

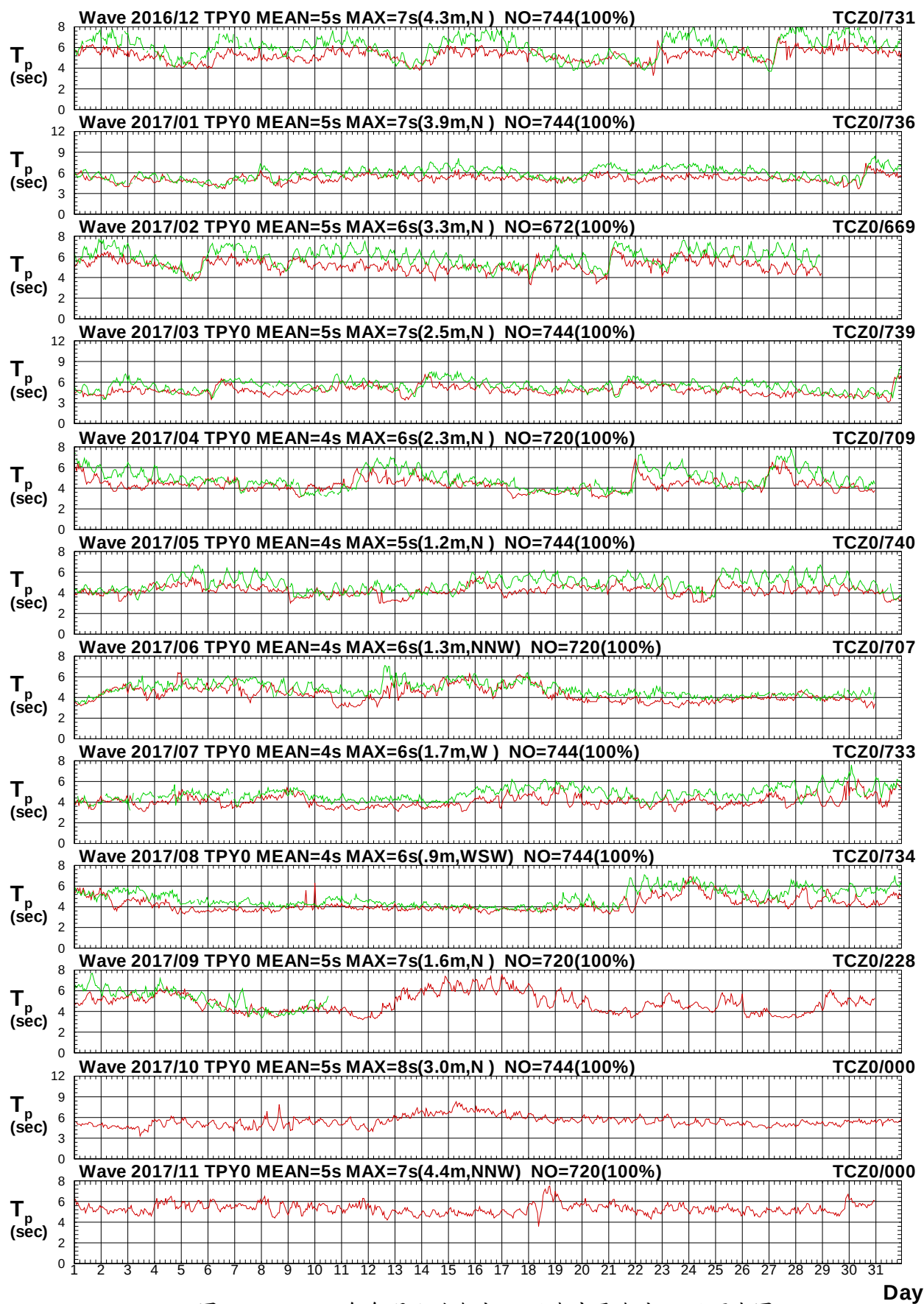


圖2.20b 2017年每月北苗海域 Y 站與中雲海域 Z 站週期圖

V16CTPY0.1HA V16CTCZ0.1H0 V171TPY0.1HA V171TCZ0.1H0 V172TPY0.1HA V172TCZ0.1H0
V173TPY0.1HA V173TCZ0.1H0 V174TPY0.1HA V174TCZ0.1H0 V175TPY0.1HA V175TCZ0.1H0

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Wave Direction in Pei-Miao Seas of TPY0 at 2017

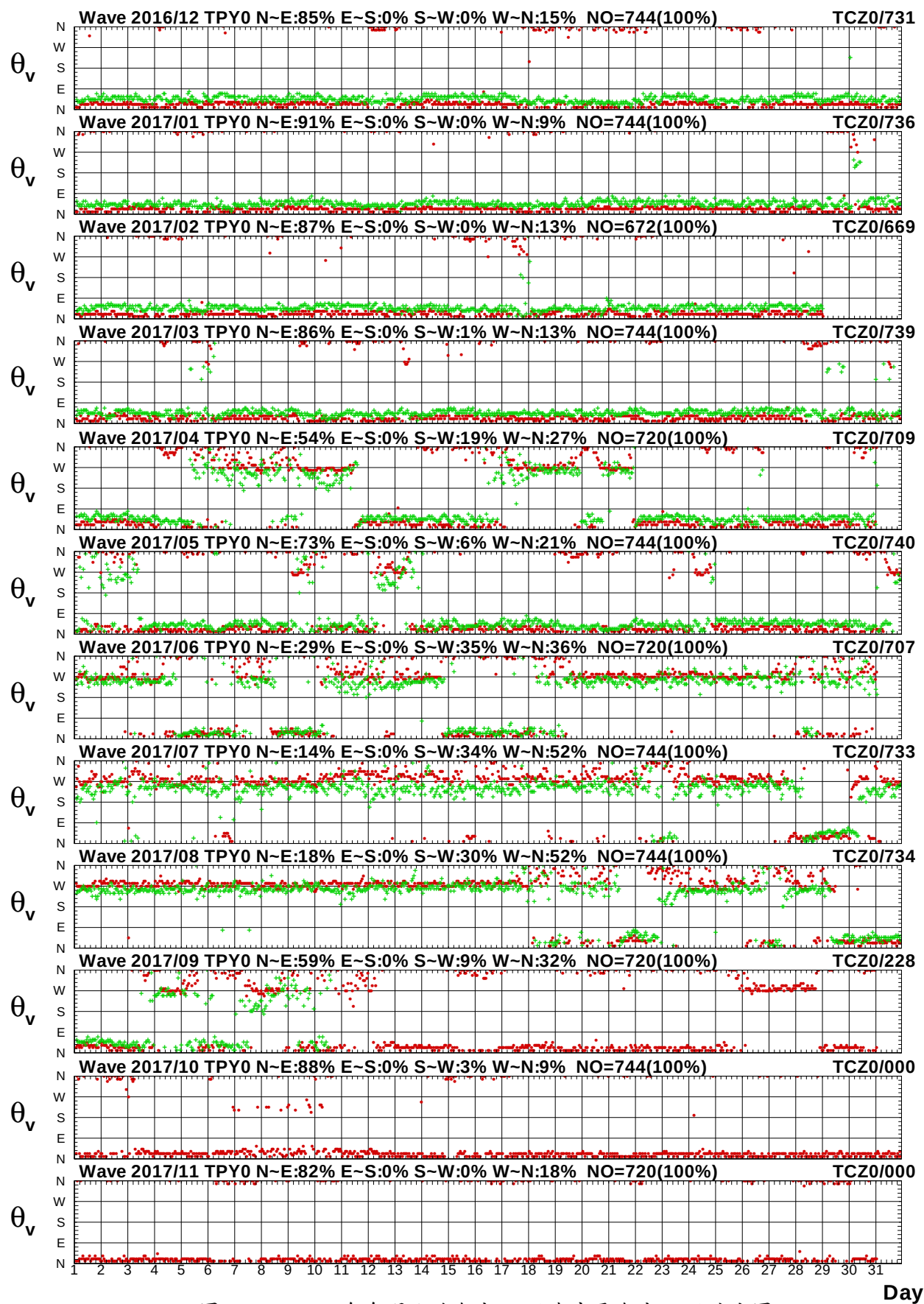


圖2.20c 2017年每月北苗海域 Y 站與中雲海域 Z 站波向圖

V16CTPY0.1HA V16CTCZ0.1H0 V171TPY0.1HA V171TCZ0.1H0 V172TPY0.1HA V172TCZ0.1H0
V173TPY0.1HA V173TCZ0.1H0 V174TPY0.1HA V174TCZ0.1H0 V175TPY0.1HA V175TCZ0.1H0

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Wave H_s in Pei-Miao Seas of TPY0 at 2017

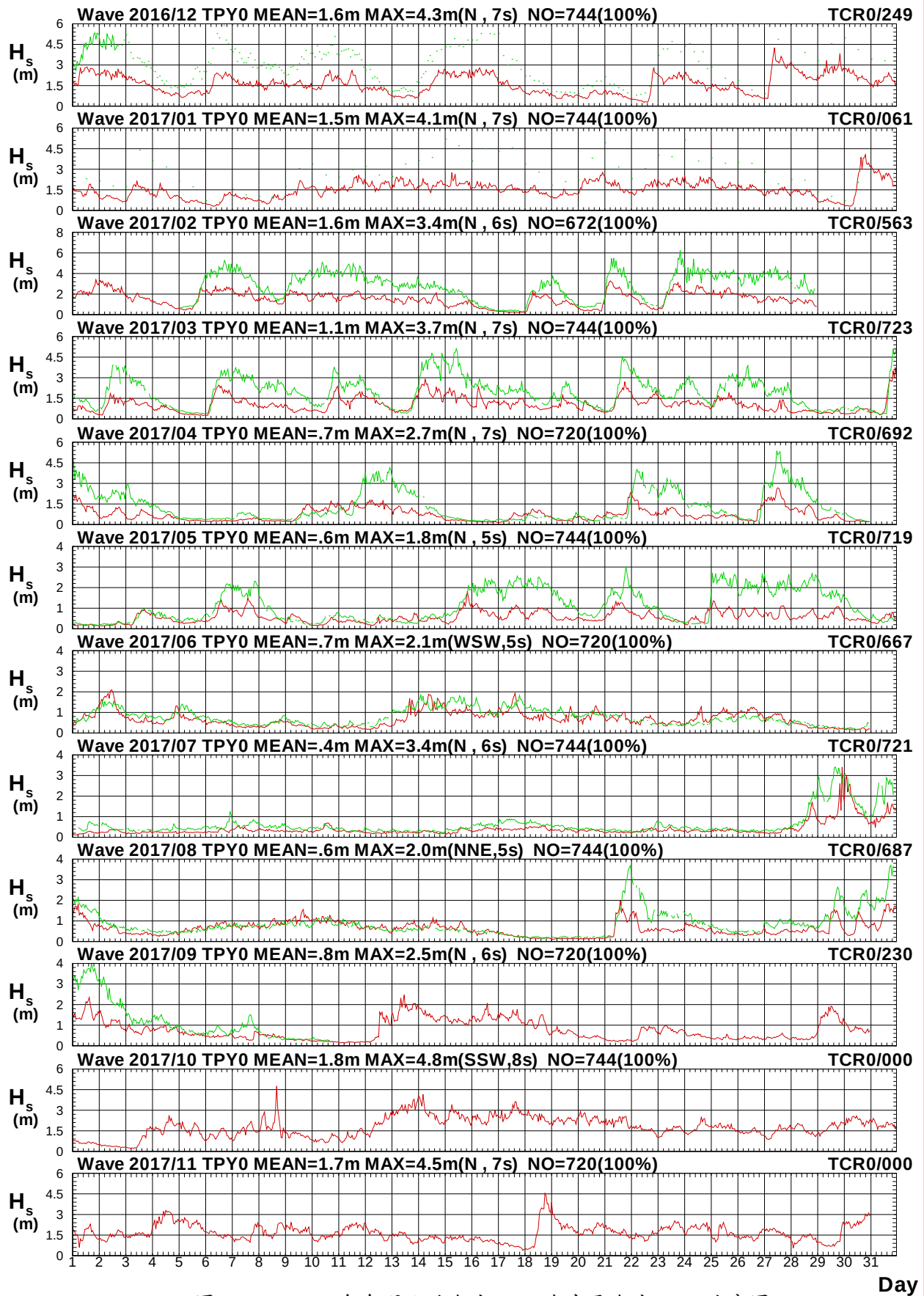


圖2.21a 2017年每月北苗海域 Y 站與中雲海域 R 站波高圖

V16CTPY0.1HA V16CTCR0.1H0 V171TPY0.1HA V171TCR0.1H0 V172TPY0.1HA V172TCR0.1H0
V173TPY0.1HA V173TCR0.1H0 V174TPY0.1HA V174TCR0.1H0 V175TPY0.1HA V175TCR0.1H0

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Wave T_p in Pei-Miao Seas of TPY0 at 2017

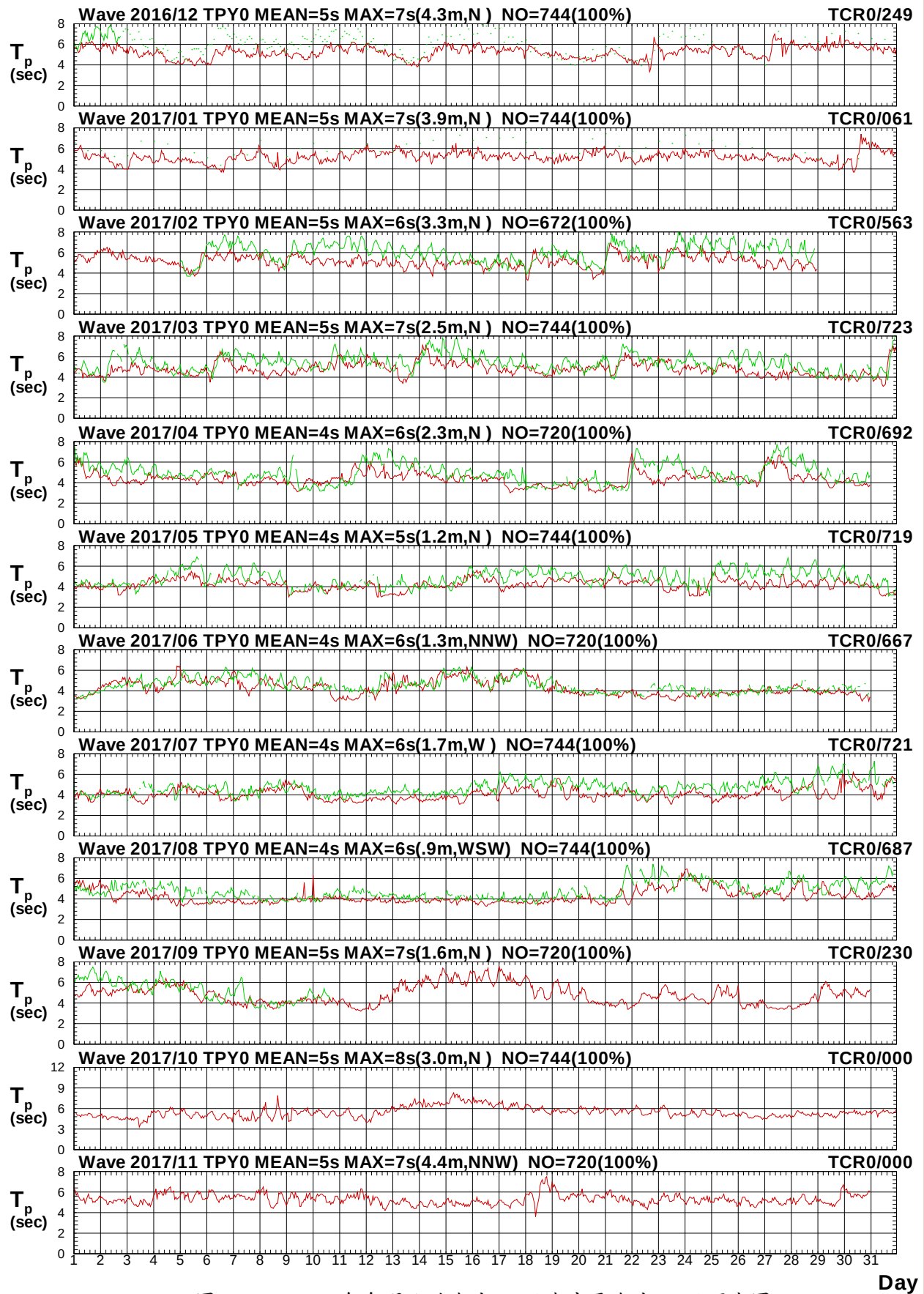


圖2.21b 2017年每月北苗海域 Y 站與中雲海域 R 站週期圖

V16CTPY0.1HA V16CTCR0.1H0 V171TPY0.1HA V171TCR0.1H0 V172TPY0.1HA V172TCR0.1H0
V173TPY0.1HA V173TCR0.1H0 V174TPY0.1HA V174TCR0.1H0 V175TPY0.1HA V175TCR0.1H0

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Wave Direction in Pei-Miao Seas of TPY0 at 2017

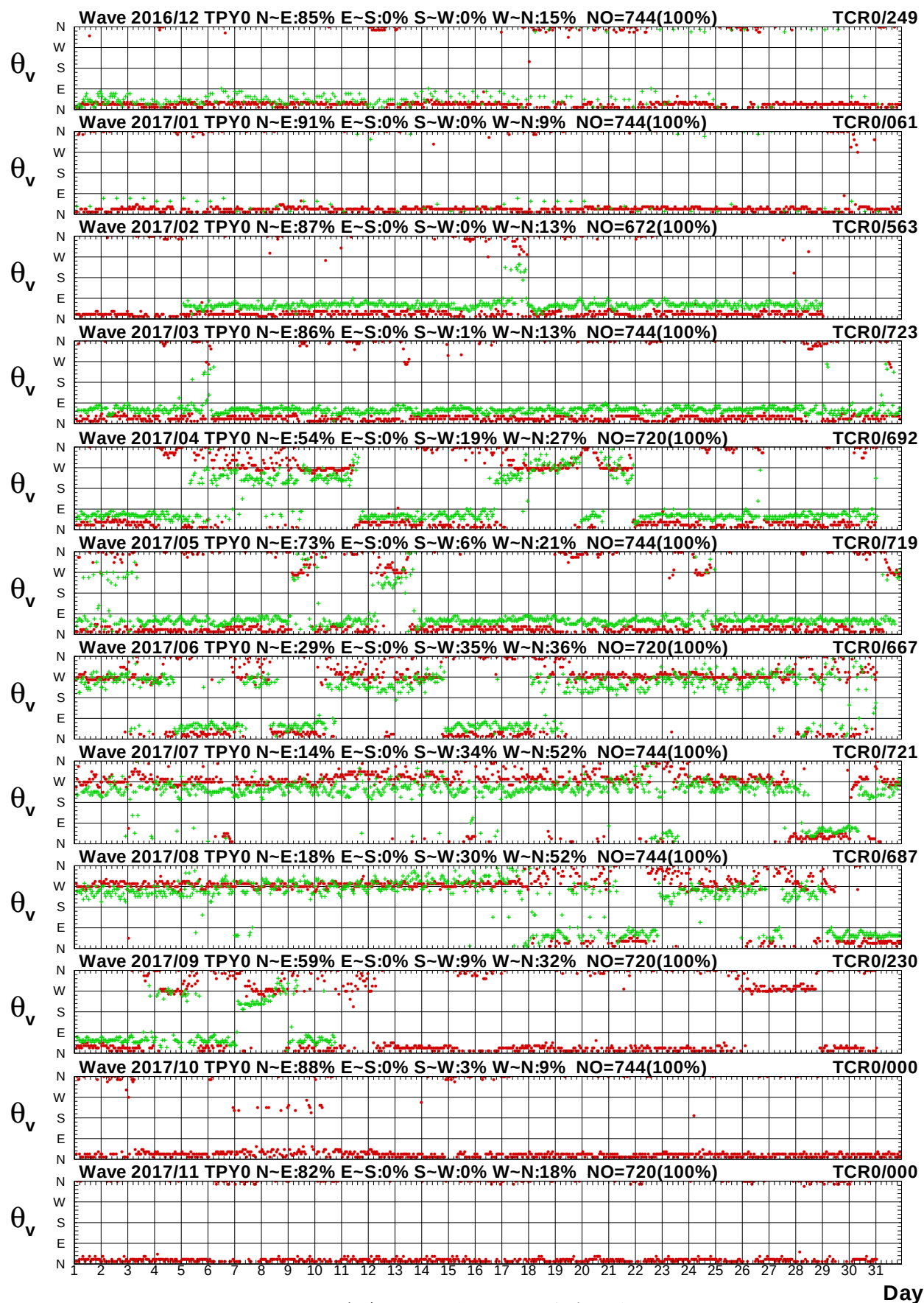


圖2.21c 2017年每月北苗海域 Y 站與中雲海域 R 站波向圖

V16CTPY0.1HA V16CTCR0.1H0 V171TPY0.1HA V171TCR0.1H0 V172TPY0.1HA V172TCR0.1H0
V173TPY0.1HA V173TCR0.1H0 V174TPY0.1HA V174TCR0.1H0 V175TPY0.1HA V175TCR0.1H0

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Wave H_s in Pei-Miao Seas of TPY0 at 2017

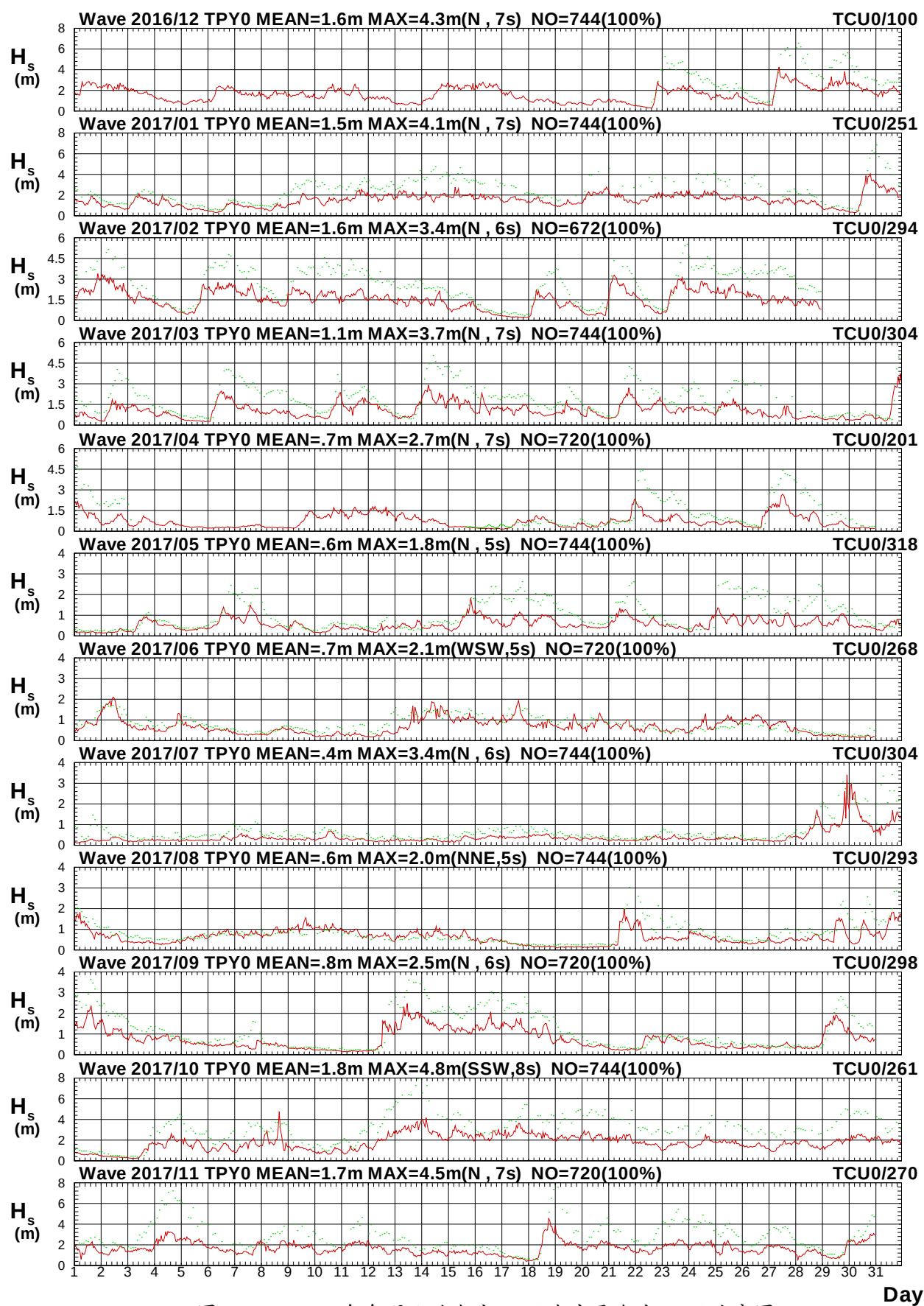


圖2.22a 2017年每月北苗海域 Y 站與中雲海域 U 站波高圖

V16CTPY0.1HA V16CTCU0.1H0 V171TPY0.1HA V171TCU0.1H0 V172TPY0.1HA V172TCU0.1H0
V173TPY0.1HA V173TCU0.1H0 V174TPY0.1HA V174TCU0.1H0 V175TPY0.1HA V175TCU0.1H0

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Wave T_p in Pei-Miao Seas of TPY0 at 2017

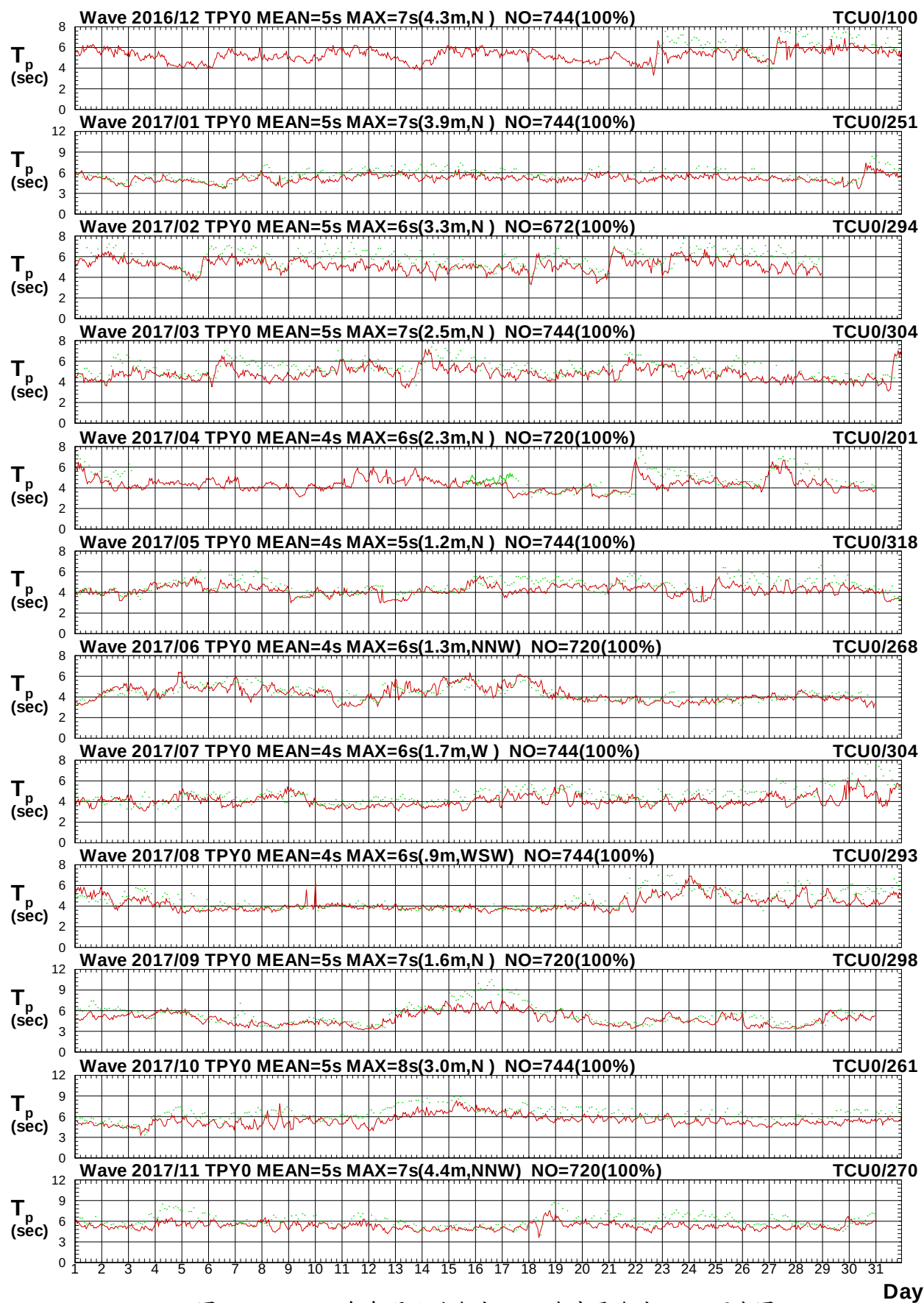


圖2.22b 2017年每月北苗海域 Y 站與中雲海域 U 站週期圖

V16CTPY0.1HA V16CTCU0.1H0 V171TPY0.1HA V171TCU0.1H0 V172TPY0.1HA V172TCU0.1H0
V173TPY0.1HA V173TCU0.1H0 V174TPY0.1HA V174TCU0.1H0 V175TPY0.1HA V175TCU0.1H0

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Wave Direction in Pei-Miao Seas of TPY0 at 2017

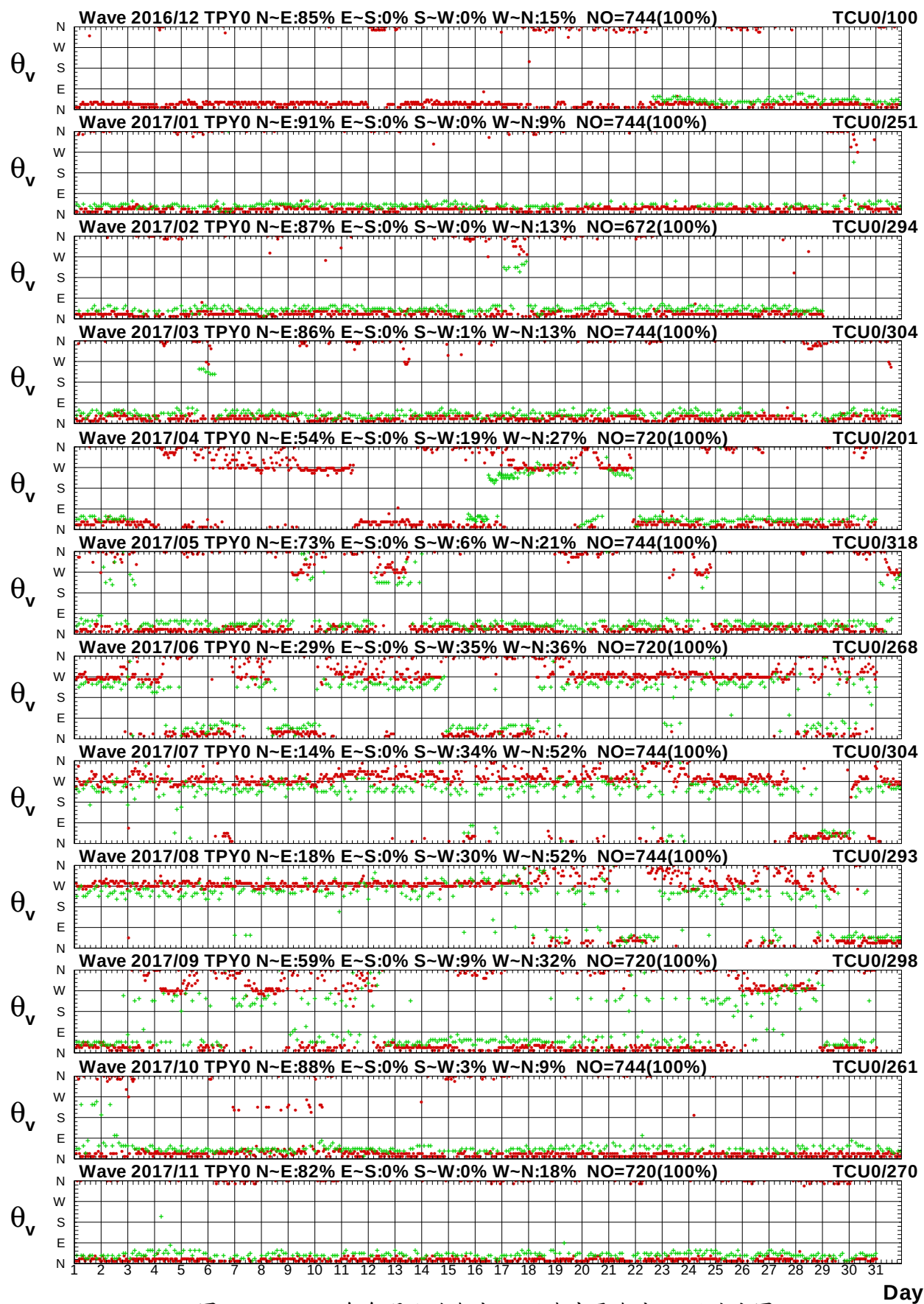


圖2.22c 2017年每月北苗海域 Y 站與中雲海域 U 站波向圖

V16CTPY0.1HA V16CTCU0.1H0 V171TPY0.1HA V171TCU0.1H0 V172TPY0.1HA V172TCU0.1H0
V173TPY0.1HA V173TCU0.1H0 V174TPY0.1HA V174TCU0.1H0 V175TPY0.1HA V175TCU0.1H0

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第三章 2017 年北苗海域觀測潮汐資料

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 **J**、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 **J**、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** 及測站 **Q** 資料作為主要測站。

本**潮汐**年報資料處理之圖表包括：

1. 2017 年**各觀測站**每月**觀測潮汐**資料**修補前**記錄統計表。
2. 2017 年**各觀測站**每月**觀測潮汐**資料**修補後**記錄統計表。
3. 2017 年**各觀測站****修補前後**每月**潮位**歷線比較圖。
4. 2017 年**各觀測站**之**觀測潮位**與**計算天文潮位**每月**潮汐**歷線比較圖。
5. 2017 年**主要測站**之**觀測潮位**與**次要觀測站**每月**潮汐**歷線比較圖。

表 3.1a 2017 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	X	K	M	F	P					
2016/12 月	744(100%)	725(97.4%)	744(100%)	731(98.3%)	728(97.8%)	736(98.9%)	738(99.2%)	*	*	*	*	*
2017/ 1 月	735(98.8%)	607(81.6%)	744(100%)	609(81.9%)	614(82.5%)	168(22.6%)	604(81.2%)	*	*	*	*	*
2017/ 2 月	546(81.3%)	657(97.8%)	672(100%)	669(99.6%)	669(99.6%)	532(79.2%)	666(99.1%)	*	*	*	*	*
2017/ 3 月	254(34.1%)	686(92.2%)	744(100%)	685(92.1%)	678(91.1%)	684(91.9%)	686(92.2%)	*	*	*	*	*
2017/ 4 月	143(19.9%)	593(82.4%)	720(100%)	616(85.6%)	568(78.9%)	615(85.4%)	614(85.3%)	*	*	*	*	*
2017/ 5 月	735(98.8%)	701(94.2%)	81(10.9%)	693(93.1%)	691(92.9%)	705(94.8%)	702(94.4%)	*	*	*	*	*
2017/ 6 月	710(98.6%)	363(50.4%)	460(63.9%)	355(49.3%)	367(51.0%)	369(51.3%)	363(50.4%)	*	*	*	*	*
2017/ 7 月	735(98.8%)	681(91.5%)	744(100%)	544(73.1%)	681(91.5%)	686(92.2%)	682(91.7%)	*	*	*	*	*
2017/ 8 月	201(27.0%)	414(55.6%)	744(100%)	421(56.6%)	415(55.8%)	423(56.9%)	415(55.8%)	*	*	*	*	*
2017/ 9 月	411(57.1%)	446(61.9%)	111(15.4%)	445(61.8%)	322(44.7%)	450(62.5%)	445(61.8%)	*	*	*	*	*
2017/10 月	608(81.7%)	582(78.2%)	*	583(78.4%)	581(78.1%)	582(78.2%)	580(78.0%)	*	*	*	*	*
2017/11 月	530(73.6%)	621(86.3%)	*	622(86.4%)	623(86.5%)	625(86.8%)	619(86.0%)	*	*	*	*	*
2017/冬季	2025(93.8%)	1989(92.1%)	2160(100%)	2009(93.0%)	2011(93.1%)	1436(66.5%)	2008(93.0%)	*	*	*	*	*
2017/春季	1132(51.3%)	1980(89.7%)	1545(70.0%)	1994(90.3%)	1937(87.7%)	2004(90.8%)	2002(90.7%)	*	*	*	*	*
2017/夏季	1646(74.5%)	1458(66.0%)	1948(88.2%)	1320(59.8%)	1463(66.3%)	1478(66.9%)	1460(66.1%)	*	*	*	*	*
2017/秋季	1549(70.9%)	1649(75.5%)	111(5.1%)	1650(75.5%)	1526(69.9%)	1657(75.9%)	1644(75.3%)	*	*	*	*	*
2017/整年	6352(72.5%)	7076(80.8%)	5764(65.8%)	6973(79.6%)	6937(79.2%)	6575(75.1%)	7114(81.2%)	*	*	*	*	*
起始年月	2016/12	2016/12	2016/12	2016/12	2016/12	2016/12	2016/12	*	*	*	*	*
結束年月	2017/11	2017/11	2017/09	2017/11	2017/11	2017/11	2017/11	*	*	*	*	*

表 3.1b 2017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	X	K	M	F	P					
2016/12 月	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	*	*	*	*	*
2017/ 1 月	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	*	*	*	*	*
2017/ 2 月	672(100%)	672(100%)	672(100%)	672(100%)	672(100%)	672(100%)	672(100%)	*	*	*	*	*
2017/ 3 月	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	*	*	*	*	*
2017/ 4 月	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	*	*	*	*	*
2017/ 5 月	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	*	*	*	*	*
2017/ 6 月	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	*	*	*	*	*
2017/ 7 月	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	*	*	*	*	*
2017/ 8 月	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	*	*	*	*	*
2017/ 9 月	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	*	*	*	*	*
2017/10 月	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	744(100%)	*	*	*	*	*
2017/11 月	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	720(100%)	*	*	*	*	*
2017/冬季	2160(100%)	2160(100%)	2160(100%)	2160(100%)	2160(100%)	2160(100%)	2160(100%)	*	*	*	*	*
2017/春季	2208(100%)	2208(100%)	2208(100%)	2208(100%)	2208(100%)	2208(100%)	2208(100%)	*	*	*	*	*
2017/夏季	2208(100%)	2208(100%)	2208(100%)	2208(100%)	2208(100%)	2208(100%)	2208(100%)	*	*	*	*	*
2017/秋季	2184(100%)	2184(100%)	2184(100%)	2184(100%)	2184(100%)	2184(100%)	2184(100%)	*	*	*	*	*
2017/整年	8760(100%)	8760(100%)	8760(100%)	8760(100%)	8760(100%)	8760(100%)	8760(100%)	*	*	*	*	*
起始年月	2016/12	2016/12	2016/12	2016/12	2016/12	2016/12	2016/12	*	*	*	*	*
結束年月	2017/11	2017/11	2017/11	2017/11	2017/11	2017/11	2017/11	*	*	*	*	*

表3.2a 2017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	2016/12	T	242	371	311	360	12.4	14.0	13.1	13.2	59	313	502	105	744(100%)
2	2017/01	T	244	370	312	358	12.9	25.0	14.3	17.8	56	307	477	105	735(99%)
3	2017/02	T	246	308	279	308	14.7	25.0	20.2	25.0	16	307	465	117	546(81%)
4	2017/03	T	*	*	*	*	*	*	*	*	0	322	469	147	254(34%)
5	2017/04	T	246	338	338	0	12.5	13.0	13.0	100.0	4	347	503	165	143(20%)
6	2017/05	T	230	339	276	326	13.6	25.0	16.3	24.8	54	345	503	132	735(99%)
7	2017/06	T	235	334	285	324	13.6	25.0	16.5	25.0	52	347	511	154	710(99%)
8	2017/07	T	227	325	272	311	13.1	25.0	14.9	20.0	56	327	522	114	735(99%)
9	2017/08	T	207	287	257	287	18.7	26.0	25.3	26.0	10	344	493	195	201(27%)
10	2017/09	T	245	287	276	287	18.6	26.0	25.2	26.0	18	320	469	161	411(57%)
11	2017/10	T	252	330	296	315	15.9	25.0	23.7	25.0	32	322	488	145	608(82%)
12	2017/11	T	271	345	322	344	18.5	26.0	25.2	25.5	20	293	477	95	530(74%)
13	2017/冬	T	244	371	307	351	12.9	25.0	14.4	17.7	131	309	502	105	2025(94%)
14	2017/春	T	231	339	280	335	13.5	25.0	16.1	24.8	58	340	503	132	1132(51%)
15	2017/夏	T	228	334	276	315	13.8	26.0	17.0	25.1	118	338	522	114	1646(75%)
16	2017/秋	T	256	345	298	328	17.3	26.0	25.0	25.3	70	312	488	95	1549(71%)
17	2017/年	T	239	371	293	334	14.1	26.0	17.9	25.1	377	323	522	95	6352(73%)

表3.2b 2017年北苗海域 T 站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	2016/12	T	242	371	311	360	12.4	14.0	13.1	13.2	59	313	502	105	744(100%)
2	2017/01	T	246	370	315	358	12.4	13.0	13.0	13.0	59	307	477	105	744(100%)
3	2017/02	T	235	321	288	311	12.4	14.0	13.1	13.4	53	307	465	117	672(100%)
4	2017/03	T	231	305	282	299	12.6	25.0	13.7	15.8	58	321	486	147	744(100%)
5	2017/04	T	226	315	275	302	12.4	14.0	13.1	13.2	57	336	517	163	720(100%)
6	2017/05	T	232	339	279	323	12.4	13.0	13.0	13.0	59	345	503	132	744(100%)
7	2017/06	T	233	330	276	322	12.4	14.0	13.1	13.2	57	348	511	154	720(100%)
8	2017/07	T	227	314	268	305	12.4	13.0	13.0	13.0	59	327	522	114	744(100%)
9	2017/08	T	223	337	270	306	12.4	14.0	13.1	13.2	59	358	521	174	744(100%)
10	2017/09	T	237	353	294	332	12.4	13.0	13.0	13.0	57	323	506	145	720(100%)
11	2017/10	T	240	341	301	320	12.4	13.0	13.0	13.0	59	318	488	139	744(100%)
12	2017/11	T	241	369	305	344	12.4	14.0	13.1	13.2	57	296	477	95	720(100%)
13	2017/冬	T	241	371	304	344	12.4	14.0	13.1	13.2	171	309	502	105	2160(100%)
14	2017/春	T	229	339	279	306	12.5	25.0	13.3	13.9	174	334	517	132	2208(100%)
15	2017/夏	T	227	337	271	308	12.4	14.0	13.0	13.1	175	344	522	114	2208(100%)
16	2017/秋	T	239	369	301	329	12.4	14.0	13.0	13.1	173	313	506	95	2184(100%)
17	2017/年	T	234	371	290	325	12.4	25.0	13.1	13.3	693	325	522	95	8760(100%)

表3.3a 2017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	2016/12	Q	363	483	427	459	13.1	25.0	15.0	20.2	55	-367	-113	-601	725(97%)
2	2017/01	Q	349	456	414	448	12.7	25.0	14.1	16.8	44	-357	-96	-603	607(82%)
3	2017/02	Q	341	408	396	406	13.7	26.0	16.8	25.3	48	-332	-95	-565	657(98%)
4	2017/03	Q	347	421	403	415	12.9	25.0	14.4	17.8	51	-321	-71	-515	686(92%)
5	2017/04	Q	340	438	405	422	13.7	26.0	16.7	25.0	41	-322	-75	-516	593(82%)
6	2017/05	Q	345	421	391	416	14.0	26.0	17.7	25.3	47	-324	-92	-516	701(94%)
7	2017/06	Q	344	414	403	414	15.9	25.0	23.0	25.0	18	-307	-82	-510	363(50%)
8	2017/07	Q	351	431	399	424	13.5	25.0	15.9	24.8	48	-313	-83	-514	681(92%)
9	2017/08	Q	325	387	372	387	12.4	13.0	13.0	13.0	18	-301	-62	-511	414(56%)
10	2017/09	Q	358	421	412	420	14.0	25.0	18.0	25.0	23	-308	-86	-511	446(62%)
11	2017/10	Q	350	442	416	439	13.5	25.0	16.0	25.0	36	-311	-68	-513	582(78%)
12	2017/11	Q	372	444	416	432	13.6	25.0	16.7	25.0	40	-349	-64	-563	621(86%)
13	2017/冬	Q	351	483	413	446	13.2	26.0	15.3	21.0	147	-353	-95	-603	1989(92%)
14	2017/春	Q	344	438	401	418	13.5	26.0	16.1	24.0	139	-322	-71	-516	1980(90%)
15	2017/夏	Q	344	431	395	417	13.8	25.0	16.8	25.0	84	-308	-62	-514	1458(66%)
16	2017/秋	Q	361	444	415	433	13.7	25.0	16.6	25.0	99	-324	-64	-563	1649(76%)
17	2017/年	Q	350	483	407	430	13.5	26.0	16.1	23.5	469	-328	-62	-603	7076(81%)

表3.3b 2017年北苗海域 Q 站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	2016/12	Q	364	483	433	461	12.4	14.0	13.2	13.6	59	-366	-113	-601	744(100%)
2	2017/01	Q	367	463	434	458	12.4	14.0	13.3	14.0	59	-357	-96	-611	744(100%)
3	2017/02	Q	346	417	399	409	12.4	13.0	13.0	13.0	53	-334	-95	-565	672(100%)
4	2017/03	Q	360	495	426	466	12.4	14.0	13.1	13.2	59	-323	-71	-582	744(100%)
5	2017/04	Q	356	467	421	446	12.4	14.0	13.1	13.2	57	-317	-61	-561	720(100%)
6	2017/05	Q	346	421	395	416	12.4	14.0	13.1	13.2	59	-323	-92	-523	744(100%)
7	2017/06	Q	352	539	424	491	12.6	25.0	13.7	15.4	56	-299	7	-599	720(100%)
8	2017/07	Q	351	471	402	431	12.4	13.0	13.0	13.0	59	-311	-78	-565	744(100%)
9	2017/08	Q	351	482	422	463	12.4	14.0	13.1	13.2	59	-307	-33	-549	744(100%)
10	2017/09	Q	353	468	426	451	12.6	26.0	13.7	15.6	56	-310	-54	-561	720(100%)
11	2017/10	Q	359	531	434	472	12.4	13.0	13.0	13.0	59	-314	-56	-599	744(100%)
12	2017/11	Q	359	457	417	444	13.1	25.0	15.1	20.4	54	-352	-64	-619	720(100%)
13	2017/冬	Q	359	483	423	452	12.4	14.0	13.2	13.5	171	-353	-95	-611	2160(100%)
14	2017/春	Q	354	495	416	446	12.4	14.0	13.1	13.2	175	-321	-61	-582	2208(100%)
15	2017/夏	Q	352	539	415	459	12.5	25.0	13.2	13.8	174	-306	7	-599	2208(100%)
16	2017/秋	Q	357	531	426	455	12.7	26.0	13.9	16.1	169	-326	-54	-619	2184(100%)
17	2017/年	Q	356	539	421	453	12.5	26.0	13.3	14.1	689	-326	7	-619	8760(100%)

表3.4a 2017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	2016/12	X	228	352	294	340	12.4	13.0	13.0	13.0	59	1894	2074	1708	744(100%)
2	2017/01	X	231	350	298	337	12.4	13.0	13.0	13.0	59	1889	2055	1698	744(100%)
3	2017/02	X	222	308	273	294	12.4	14.0	13.1	13.4	53	1890	2043	1718	672(100%)
4	2017/03	X	228	305	279	295	12.4	13.0	13.0	13.0	59	1895	2056	1738	744(100%)
5	2017/04	X	224	315	271	299	12.4	14.0	13.1	13.4	57	1899	2061	1715	720(100%)
6	2017/05	X	213	251	251	0	12.4	13.0	13.0	100.0	5	1902	2036	1752	81(11%)
7	2017/06	X	230	318	276	313	12.4	13.0	13.0	13.0	36	1939	2094	1752	460(64%)
8	2017/07	X	219	311	261	299	12.4	13.0	13.0	13.0	59	1941	2099	1762	744(100%)
9	2017/08	X	219	307	266	297	12.4	14.0	13.2	13.6	59	1944	2096	1770	744(100%)
10	2017/09	X	191	266	255	0	12.4	13.0	13.0	100.0	8	1944	2074	1808	111(15%)
11	2017/10	X													
12	2017/11	X													
13	2017/冬	X	227	352	287	325	12.4	14.0	13.0	13.1	171	1891	2074	1698	2160(100%)
14	2017/春	X	225	315	274	296	12.4	14.0	13.1	13.2	121	1897	2061	1715	1545(70%)
15	2017/夏	X	222	318	266	300	12.4	14.0	13.1	13.2	154	1942	2099	1752	1948(88%)
16	2017/秋	X	191	266	255	0	12.4	13.0	13.0	100.0	8	1944	2074	1808	111(5%)
17	2017/年	X	224	352	276	309	12.4	14.0	13.1	13.2	454	1911	2099	1698	5764(66%)

表3.4b 2017年北苗海域 X 站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	2016/12	X	228	352	294	340	12.4	13.0	13.0	13.0	59	1894	2074	1708	744(100%)
2	2017/01	X	231	350	298	337	12.4	13.0	13.0	13.0	59	1889	2055	1698	744(100%)
3	2017/02	X	222	308	273	294	12.4	14.0	13.1	13.4	53	1890	2043	1718	672(100%)
4	2017/03	X	228	305	279	295	12.4	13.0	13.0	13.0	59	1895	2056	1738	744(100%)
5	2017/04	X	224	315	271	299	12.4	14.0	13.1	13.4	57	1899	2061	1715	720(100%)
6	2017/05	X	231	339	278	323	12.4	13.0	13.0	13.0	59	1893	2050	1680	744(100%)
7	2017/06	X	224	318	264	305	12.4	13.0	13.0	13.0	57	1941	2094	1752	720(100%)
8	2017/07	X	219	311	261	299	12.4	13.0	13.0	13.0	59	1941	2099	1762	744(100%)
9	2017/08	X	219	307	266	297	12.4	14.0	13.2	13.6	59	1944	2096	1770	744(100%)
10	2017/09	X	236	353	294	332	12.4	13.0	13.0	13.0	57	1968	2148	1787	720(100%)
11	2017/10	X	240	341	301	320	12.4	13.0	13.0	13.0	59	319	488	139	744(100%)
12	2017/11	X	241	369	305	344	12.4	14.0	13.1	13.2	57	296	477	95	720(100%)
13	2017/冬	X	227	352	287	325	12.4	14.0	13.0	13.1	171	1891	2074	1698	2160(100%)
14	2017/春	X	227	339	276	304	12.4	14.0	13.0	13.1	175	1896	2061	1680	2208(100%)
15	2017/夏	X	221	318	263	297	12.4	14.0	13.1	13.2	175	1942	2099	1752	2208(100%)
16	2017/秋	X	239	369	301	329	12.4	14.0	13.0	13.1	173	855	2148	95	2184(100%)
17	2017/年	X	229	369	284	317	12.4	14.0	13.0	13.1	694	1647	2148	95	8760(100%)

表3.5a 2017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	2016/12	K	261	389	325	373	13.6	26.0	16.3	24.8	54	-234	-34	-448	731(98%)
2	2017/01	K	255	388	320	372	13.3	25.0	15.5	21.8	42	-238	-55	-443	609(82%)
3	2017/02	K	255	359	318	350	13.2	26.0	15.3	20.4	50	-236	-64	-433	669(100%)
4	2017/03	K	258	335	306	325	12.7	25.0	13.8	16.3	49	-228	-52	-515	685(92%)
5	2017/04	K	241	335	294	312	14.2	25.0	18.0	25.0	42	-227	-46	-433	616(86%)
6	2017/05	K	252	376	304	360	13.5	25.0	16.1	24.8	46	-230	-52	-442	693(93%)
7	2017/06	K	262	357	313	357	15.6	25.0	22.6	25.0	16	-213	-41	-414	355(49%)
8	2017/07	K	255	368	311	361	14.2	25.0	18.3	25.0	35	-209	-31	-407	544(73%)
9	2017/08	K	226	288	265	288	12.4	13.0	13.0	13.0	18	-202	-33	-385	421(57%)
10	2017/09	K	250	339	308	338	14.1	25.0	18.0	25.0	22	-204	-41	-382	445(62%)
11	2017/10	K	255	356	315	341	13.4	25.0	16.0	25.0	36	-208	-37	-395	583(78%)
12	2017/11	K	272	372	327	353	13.6	25.0	16.5	24.5	40	-224	-32	-424	622(86%)
13	2017/冬	K	257	389	321	365	13.4	26.0	15.7	22.4	146	-236	-34	-448	2009(93%)
14	2017/春	K	251	376	303	335	13.4	25.0	15.9	23.0	137	-228	-46	-515	1994(90%)
15	2017/夏	K	249	368	300	354	14.1	25.0	17.6	25.0	69	-208	-31	-414	1320(60%)
16	2017/秋	K	261	372	319	346	13.7	25.0	16.7	24.8	98	-213	-32	-424	1650(76%)
17	2017/年	K	255	389	312	351	13.6	26.0	16.2	23.8	450	-223	-31	-515	6973(80%)

表3.5b 2017年北苗海域 K 站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	2016/12	K	261	390	330	379	12.4	14.0	13.1	13.2	59	-234	-34	-448	744(100%)
2	2017/01	K	258	388	323	374	12.4	13.0	13.0	13.0	59	-236	-54	-443	744(100%)
3	2017/02	K	255	344	313	336	12.4	13.0	13.0	13.0	53	-237	-64	-433	672(100%)
4	2017/03	K	259	335	307	326	12.6	25.0	13.7	15.6	58	-228	-52	-515	744(100%)
5	2017/04	K	251	359	304	340	12.4	13.0	13.0	13.0	57	-226	-46	-433	720(100%)
6	2017/05	K	250	363	299	346	12.4	13.0	13.0	13.0	59	-229	-52	-442	744(100%)
7	2017/06	K	240	355	288	336	12.4	13.0	13.0	13.0	57	-214	-41	-414	720(100%)
8	2017/07	K	244	352	294	336	12.4	13.0	13.0	13.0	59	-207	-31	-407	744(100%)
9	2017/08	K	238	343	292	317	12.7	24.0	13.6	15.2	58	-207	-33	-385	744(100%)
10	2017/09	K	242	335	296	323	12.4	13.0	13.0	13.0	57	-205	-41	-382	720(100%)
11	2017/10	K	252	360	316	338	12.4	13.0	13.0	13.0	59	-209	-35	-397	744(100%)
12	2017/11	K	257	390	324	367	12.4	13.0	13.0	13.0	57	-224	-32	-424	720(100%)
13	2017/冬	K	258	390	321	362	12.4	14.0	13.0	13.1	171	-236	-34	-448	2160(100%)
14	2017/春	K	253	363	304	335	12.5	25.0	13.2	13.8	174	-228	-46	-515	2208(100%)
15	2017/夏	K	240	355	291	326	12.5	24.0	13.2	13.6	174	-209	-31	-414	2208(100%)
16	2017/秋	K	250	390	313	342	12.4	13.0	13.0	13.0	173	-213	-32	-424	2184(100%)
17	2017/年	K	250	390	308	343	12.5	25.0	13.1	13.4	692	-221	-31	-515	8760(100%)

表3.6a 2017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	2016/12	M	224	321	279	307	12.6	25.0	13.7	15.6	55	187	365	6	728(98%)
2	2017/01	M	221	312	275	299	12.7	26.0	13.9	16.3	47	183	343	11	614(83%)
3	2017/02	M	217	291	266	287	12.7	25.0	13.8	15.8	52	184	332	16	669(100%)
4	2017/03	M	219	287	261	281	12.7	25.0	13.8	16.0	48	192	346	42	678(91%)
5	2017/04	M	201	272	251	270	14.8	25.0	19.9	25.0	36	-323	-165	-503	568(79%)
6	2017/05	M	212	333	256	310	14.4	25.0	19.1	25.0	43	-335	-183	-516	691(93%)
7	2017/06	M	210	308	254	308	16.4	25.0	25.0	25.0	19	-318	-165	-494	367(51%)
8	2017/07	M	214	301	260	296	13.7	25.0	16.9	24.8	47	-319	-161	-488	681(92%)
9	2017/08	M	193	246	228	246	12.4	14.0	13.2	14.0	18	-310	-162	-470	415(56%)
10	2017/09	M	196	252	242	252	13.3	26.0	15.8	26.0	15	-315	-178	-456	322(45%)
11	2017/10	M	219	292	268	289	13.9	25.0	17.3	25.0	35	-319	-169	-479	581(78%)
12	2017/11	M	231	342	282	323	13.6	25.0	16.4	24.8	43	-335	-163	-506	623(87%)
13	2017/冬	M	221	321	273	297	12.7	26.0	13.8	15.7	154	185	365	6	2011(93%)
14	2017/春	M	211	333	258	287	13.9	25.0	17.3	25.0	127	-147	346	-516	1937(88%)
15	2017/夏	M	208	308	252	290	14.1	25.0	17.7	25.0	84	-316	-161	-494	1463(66%)
16	2017/秋	M	221	342	271	302	13.6	26.0	16.5	24.9	93	-325	-163	-506	1526(70%)
17	2017/年	M	216	342	266	295	13.5	26.0	16.0	23.2	458	-126	365	-516	6937(79%)

表3.6b 2017年北苗海域 M 站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	2016/12	M	223	343	287	329	12.4	14.0	13.1	13.2	59	187	365	6	744(100%)
2	2017/01	M	227	332	292	322	12.4	13.0	13.0	13.0	59	183	351	11	744(100%)
3	2017/02	M	217	291	265	286	12.4	14.0	13.1	13.4	53	184	332	16	672(100%)
4	2017/03	M	223	299	272	291	12.4	13.0	13.0	13.0	59	191	357	42	744(100%)
5	2017/04	M	219	303	264	288	12.4	14.0	13.1	13.2	57	-323	-165	-503	720(100%)
6	2017/05	M	214	306	255	294	12.4	14.0	13.1	13.4	59	-334	-183	-516	744(100%)
7	2017/06	M	220	304	259	292	12.4	13.0	13.0	13.0	57	-317	-148	-494	720(100%)
8	2017/07	M	214	298	253	289	12.4	13.0	13.0	13.0	59	-318	-161	-488	744(100%)
9	2017/08	M	216	293	260	283	12.4	14.0	13.1	13.4	59	-311	-144	-470	744(100%)
10	2017/09	M	228	433	296	349	12.6	24.0	13.6	15.2	56	-345	-166	-636	720(100%)
11	2017/10	M	223	347	283	315	12.4	13.0	13.0	13.0	59	-320	-139	-516	744(100%)
12	2017/11	M	224	343	285	322	12.4	13.0	13.0	13.0	57	-336	-163	-507	720(100%)
13	2017/冬	M	223	343	280	315	12.4	14.0	13.1	13.2	171	185	365	6	2160(100%)
14	2017/春	M	219	306	265	290	12.4	14.0	13.1	13.2	175	-153	357	-516	2208(100%)
15	2017/夏	M	216	304	257	286	12.4	14.0	13.0	13.1	175	-315	-144	-494	2208(100%)
16	2017/秋	M	225	433	288	325	12.5	24.0	13.2	13.6	172	-334	-139	-636	2184(100%)
17	2017/年	M	221	433	273	306	12.4	24.0	13.1	13.3	693	-156	365	-636	8760(100%)

表3.7a 2017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	2016/12	F	188	280	230	258	12.9	25.0	14.3	18.0	57	-335	-170	-460	736(99%)
2	2017/01	F	190	223	216	223	14.6	25.0	20.7	25.0	11	-331	-217	-451	168(23%)
3	2017/02	F	182	237	223	234	13.0	25.0	14.9	19.3	40	-337	-208	-465	532(79%)
4	2017/03	F	182	234	215	229	12.6	25.0	13.8	16.3	49	-331	-192	-447	684(92%)
5	2017/04	F	173	219	208	217	13.4	25.0	15.8	22.0	41	-330	-183	-460	615(85%)
6	2017/05	F	178	239	213	231	13.0	25.0	14.7	19.3	46	-329	-189	-456	705(95%)
7	2017/06	F	174	235	215	235	16.8	25.0	25.0	25.0	20	-311	-175	-441	369(51%)
8	2017/07	F	183	259	218	253	13.4	25.0	15.9	24.8	48	-317	-175	-442	686(92%)
9	2017/08	F	161	205	184	205	12.2	13.0	12.8	13.0	18	-309	-178	-417	423(57%)
10	2017/09	F	178	211	202	209	13.4	25.0	16.0	25.0	24	-311	-185	-409	450(63%)
11	2017/10	F	172	218	201	212	14.2	26.0	18.5	25.3	34	-312	-178	-402	582(78%)
12	2017/11	F	181	260	214	247	13.8	25.0	17.1	24.8	45	-327	-180	-441	625(87%)
13	2017/冬	F	186	280	226	246	13.1	25.0	15.0	20.3	108	-336	-170	-465	1436(67%)
14	2017/春	F	178	239	212	226	13.0	25.0	14.6	18.7	136	-330	-183	-460	2004(91%)
15	2017/夏	F	176	259	211	241	14.0	25.0	17.6	25.0	86	-313	-175	-442	1478(67%)
16	2017/秋	F	177	260	207	227	13.9	26.0	17.3	25.1	103	-317	-178	-441	1657(76%)
17	2017/年	F	180	280	215	235	13.4	26.0	15.9	22.8	433	-324	-170	-465	6575(75%)

表3.7b 2017年北苗海域 F 站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	2016/12	F	189	280	237	262	12.4	14.0	13.1	13.4	59	-335	-170	-460	744(100%)
2	2017/01	F	222	344	290	334	12.9	25.0	14.3	18.0	57	-305	-129	-486	744(100%)
3	2017/02	F	192	271	234	249	12.4	14.0	13.1	13.2	53	-344	-208	-526	672(100%)
4	2017/03	F	189	289	232	277	12.6	25.0	13.7	15.8	58	-328	-134	-447	744(100%)
5	2017/04	F	188	278	235	268	12.6	25.0	13.8	15.8	56	-328	-171	-492	720(100%)
6	2017/05	F	179	267	215	249	13.1	25.0	15.1	20.4	56	-330	-189	-456	744(100%)
7	2017/06	F	201	330	252	301	13.1	25.0	15.0	20.2	54	-301	-64	-477	720(100%)
8	2017/07	F	186	249	218	242	12.4	13.0	13.0	13.0	59	-316	-150	-449	744(100%)
9	2017/08	F	197	310	246	283	12.6	26.0	13.8	16.0	58	-299	-90	-435	744(100%)
10	2017/09	F	197	292	249	280	12.9	26.0	14.5	19.0	49	-312	-124	-513	720(100%)
11	2017/10	F	187	311	240	304	12.9	26.0	14.5	18.6	57	-311	-96	-501	744(100%)
12	2017/11	F	179	280	219	255	13.1	26.0	15.3	20.8	54	-329	-127	-480	720(100%)
13	2017/冬	F	201	344	255	303	12.6	25.0	13.5	14.8	169	-328	-129	-526	2160(100%)
14	2017/春	F	186	289	228	262	12.8	25.0	14.2	16.8	170	-329	-134	-492	2208(100%)
15	2017/夏	F	194	330	238	275	12.7	26.0	13.9	16.0	171	-305	-64	-477	2208(100%)
16	2017/秋	F	187	311	237	281	12.9	26.0	14.8	18.9	160	-317	-96	-513	2184(100%)
17	2017/年	F	192	344	240	281	12.8	26.0	14.1	16.6	670	-320	-64	-526	8760(100%)

表3.8a 2017年北苗海域 P 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	2016/12	P	335	434	391	419	12.6	25.0	13.7	15.6	58	-366	-119	-568	738(99%)
2	2017/01	P	329	410	385	405	13.6	25.0	16.6	25.0	44	-371	-142	-565	604(81%)
3	2017/02	P	323	397	381	393	13.2	26.0	15.3	20.4	50	-368	-151	-562	666(99%)
4	2017/03	P	328	404	385	399	12.9	26.0	14.5	18.0	51	-361	-127	-555	686(92%)
5	2017/04	P	321	429	388	414	14.2	25.0	18.0	25.0	42	-362	-131	-571	614(85%)
6	2017/05	P	330	433	389	425	14.0	25.0	17.7	25.0	47	-364	-143	-584	702(94%)
7	2017/06	P	332	436	388	436	16.6	26.0	25.0	26.0	18	-347	-132	-581	363(50%)
8	2017/07	P	335	447	393	430	13.5	26.0	16.0	25.0	48	-349	-128	-580	682(92%)
9	2017/08	P	300	378	349	378	12.4	13.0	13.0	13.0	18	-337	-121	-572	415(56%)
10	2017/09	P	339	411	394	410	14.8	26.0	20.0	25.5	21	-346	-147	-566	445(62%)
11	2017/10	P	331	438	404	424	13.9	25.0	17.3	25.0	35	-349	-131	-569	580(78%)
12	2017/11	P	363	455	416	441	14.2	25.0	18.5	25.0	41	-364	-119	-579	619(86%)
13	2017/冬	P	329	434	386	406	13.1	26.0	15.0	19.7	152	-368	-119	-568	2008(93%)
14	2017/春	P	326	433	387	412	13.7	26.0	16.6	24.9	140	-363	-127	-584	2002(91%)
15	2017/夏	P	327	447	386	418	13.9	26.0	17.3	25.3	84	-345	-121	-581	1460(66%)
16	2017/秋	P	346	455	407	430	14.2	26.0	18.2	25.1	97	-354	-119	-579	1644(75%)
17	2017/年	P	331	455	391	416	13.6	26.0	16.5	24.7	473	-359	-119	-584	7114(81%)

表3.8b 2017年北苗海域 P 站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	2016/12	P	335	445	395	423	12.4	14.0	13.1	13.2	59	-366	-119	-568	744(100%)
2	2017/01	P	345	459	411	445	12.4	14.0	13.2	13.6	59	-371	-126	-617	744(100%)
3	2017/02	P	327	401	384	395	12.4	14.0	13.1	13.2	53	-368	-151	-562	672(100%)
4	2017/03	P	341	495	410	462	12.4	14.0	13.1	13.2	59	-363	-125	-620	744(100%)
5	2017/04	P	342	467	413	447	12.4	14.0	13.1	13.2	57	-358	-108	-598	720(100%)
6	2017/05	P	335	427	394	422	12.4	13.0	13.0	13.0	59	-363	-143	-584	744(100%)
7	2017/06	P	344	487	416	463	12.4	14.0	13.1	13.2	57	-338	-65	-638	720(100%)
8	2017/07	P	337	467	397	439	12.4	13.0	13.0	13.0	59	-350	-125	-612	744(100%)
9	2017/08	P	339	467	417	452	12.4	14.0	13.1	13.2	59	-343	-66	-589	744(100%)
10	2017/09	P	338	456	414	442	12.4	13.0	13.0	13.0	57	-346	-74	-601	720(100%)
11	2017/10	P	345	517	426	467	12.4	13.0	13.0	13.0	59	-353	-118	-648	744(100%)
12	2017/11	P	348	447	411	431	12.6	25.0	13.7	15.4	56	-366	-119	-629	720(100%)
13	2017/冬	P	336	459	396	425	12.4	14.0	13.1	13.3	171	-368	-119	-617	2160(100%)
14	2017/春	P	339	495	406	441	12.4	14.0	13.0	13.1	175	-362	-108	-620	2208(100%)
15	2017/夏	P	340	487	410	450	12.4	14.0	13.0	13.1	175	-344	-65	-638	2208(100%)
16	2017/秋	P	344	517	417	445	12.5	25.0	13.2	13.7	172	-355	-74	-648	2184(100%)
17	2017/年	P	340	517	408	441	12.4	25.0	13.1	13.3	693	-357	-65	-648	8760(100%)

Tidal Level in Tai-Pei Harbor of TPT0 at 2017

1 ○ 8 ● 15 ● 22 ●

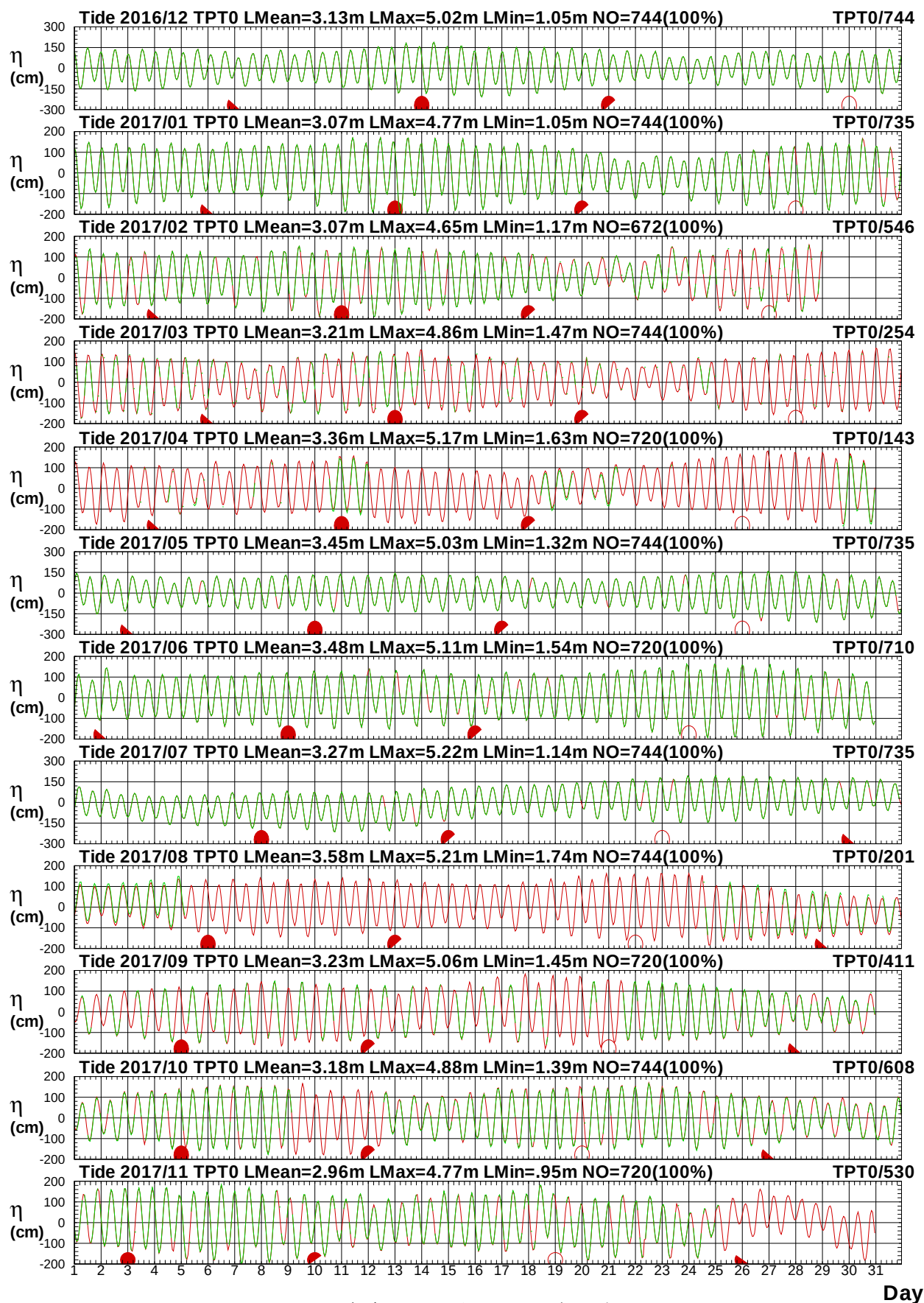


圖3.1.1 2017年每月北苗海域 T 站修補前後之潮位比較圖

T16CTPT0.1HA T16CTPT0.1H0 T171TPT0.1HA T171TPT0.1H0 T172TPT0.1HA T172TPT0.1H0
T173TPT0.1HA T173TPT0.1H0 T174TPT0.1HA T174TPT0.1H0 T175TPT0.1HA T175TPT0.1H0

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Tidal Level in Tai-Pei Harbor of TPT0 at 2017

1 ○ 8 ● 15 ● 22 ●

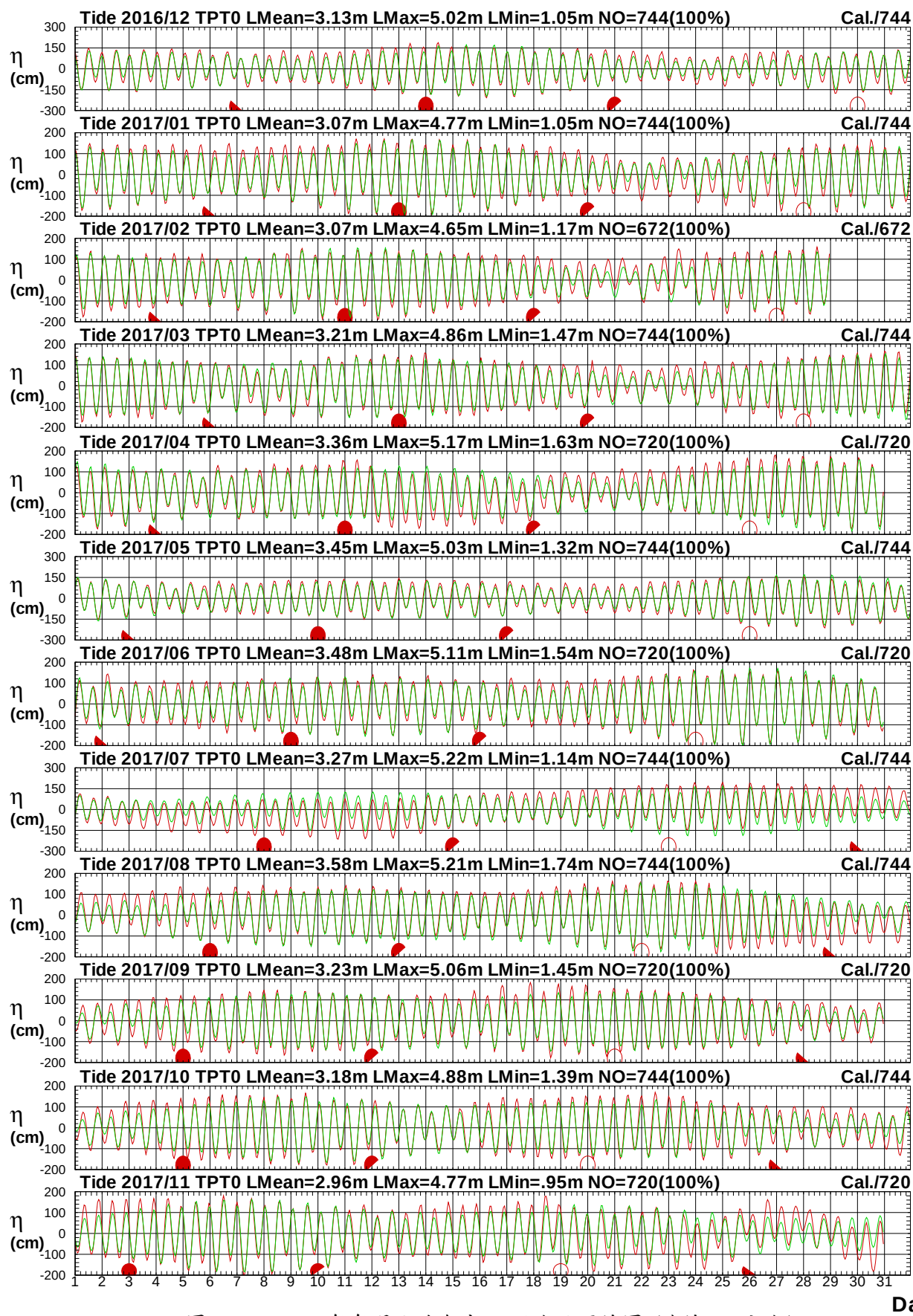


圖3.1.2 2017年每月北苗海域 T 站潮位歷線圖 (綠線: 天文潮)

T16CTPT0.1HA T16CTPT0.1HC T171TPT0.1HA T171TPT0.1HC T172TPT0.1HA T172TPT0.1HC
T173TPT0.1HA T173TPT0.1HC T174TPT0.1HA T174TPT0.1HC T175TPT0.1HA T175TPT0.1HC

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Tidal Level in Tai-Pei Harbor of TPF0 at 2017

1 ○ 8 ● 15 ● 22 ●

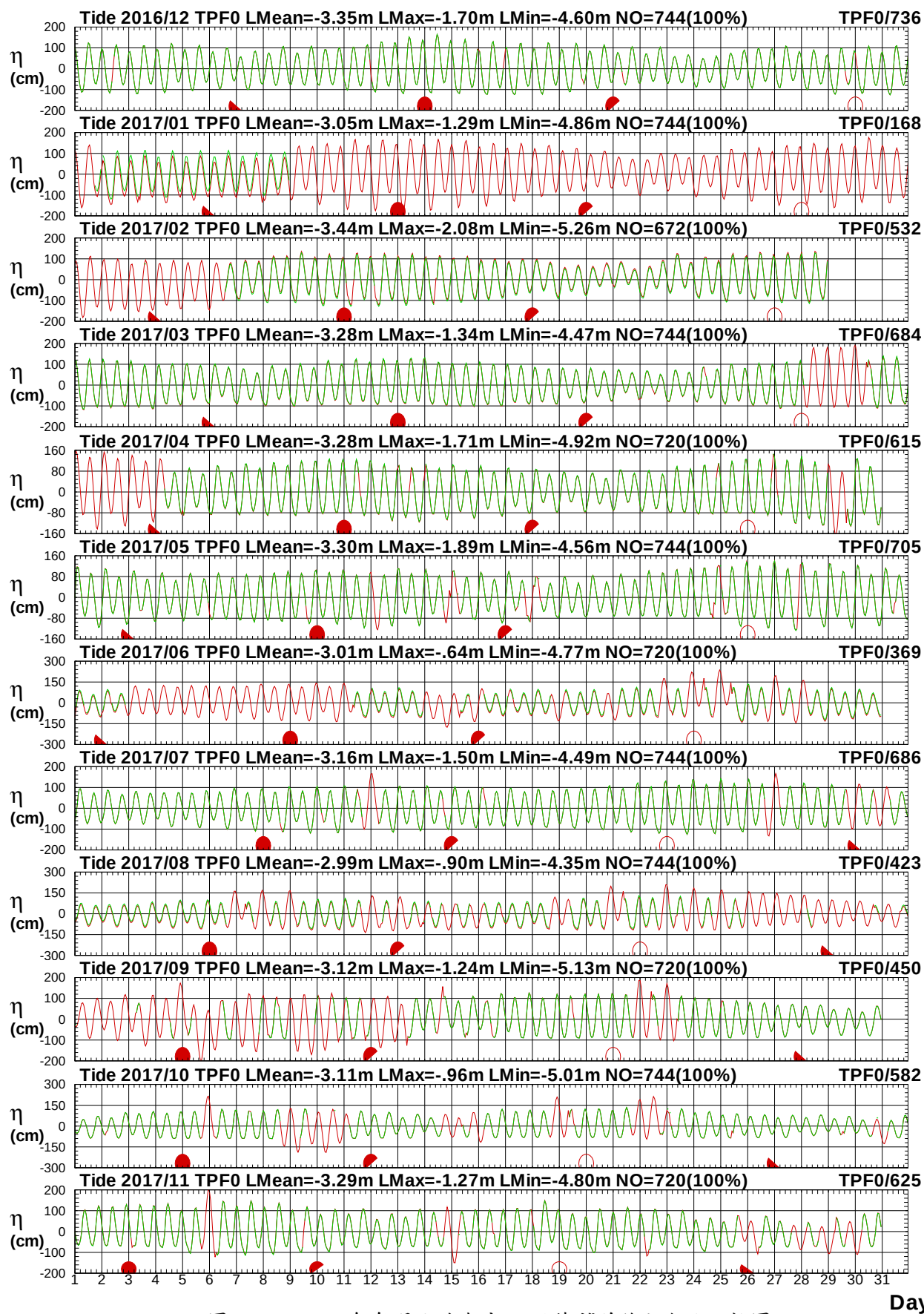


圖3.1.3 2017年每月北苗海域 F 站修補前後之潮位比較圖

T16CTPF0.1HA T16CTPF0.1H0 T171TPF0.1HA T171TPF0.1H0 T172TPF0.1HA T172TPF0.1H0
T173TPF0.1HA T173TPF0.1H0 T174TPF0.1HA T174TPF0.1H0 T175TPF0.1HA T175TPF0.1H0

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Tidal Level in Tai-Pei Harbor of TPF0 at 2017

1 ○ 8 ● 15 ● 22 ●

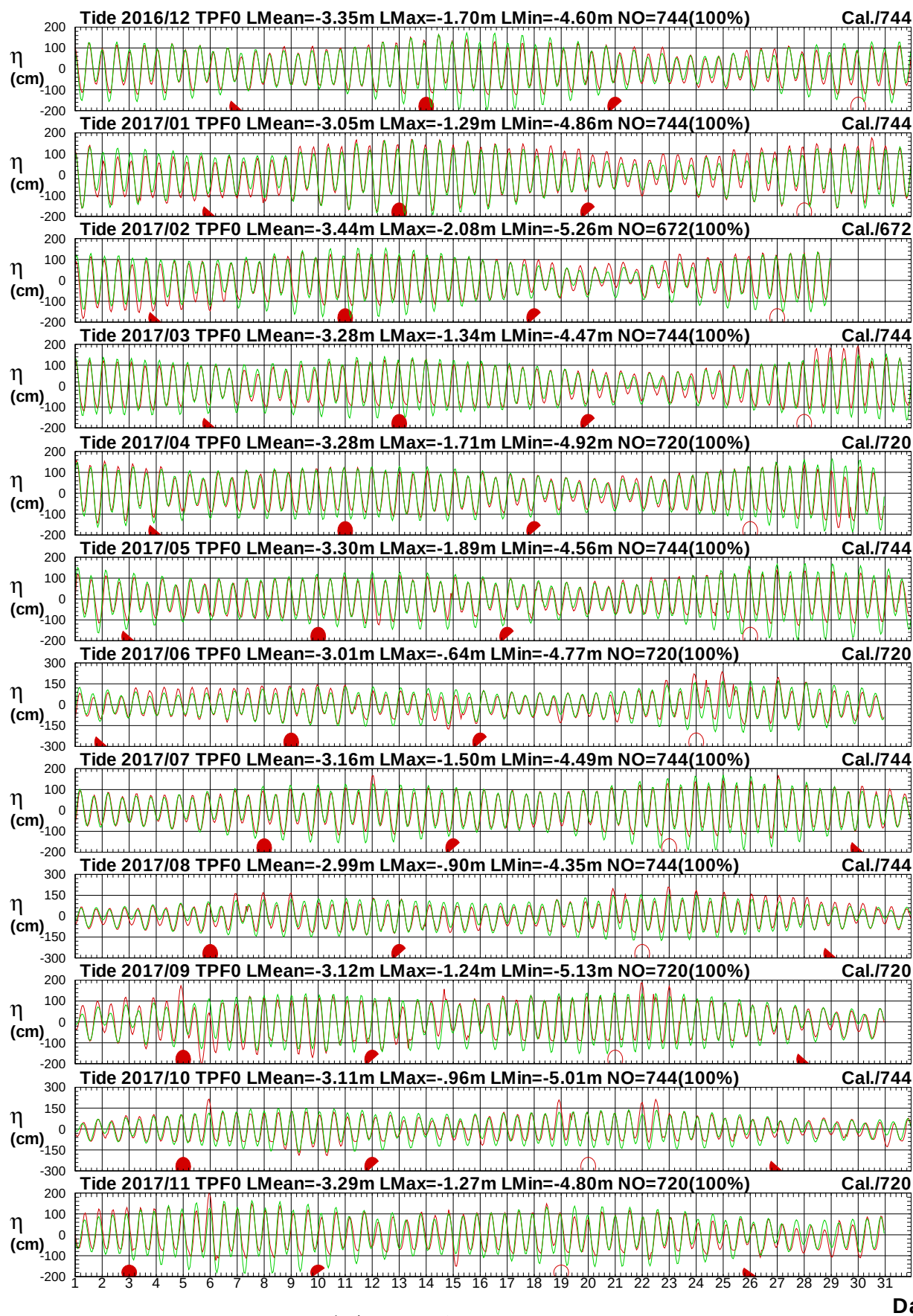


圖3.1.4 2017年每月北苗海域 F 站潮位歷線圖 (綠線: 天文潮)

T16CTPF0.1HA T16CTPT0.1HC T171TPF0.1HA T171TPT0.1HC T172TPF0.1HA T172TPT0.1HC
T173TPF0.1HA T173TPT0.1HC T174TPF0.1HA T174TPT0.1HC T175TPF0.1HA T175TPT0.1HC

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Tidal Level in Tai-Pei Harbor of TPX0 at 2017

1 ○ 8 ● 15 ● 22 ●

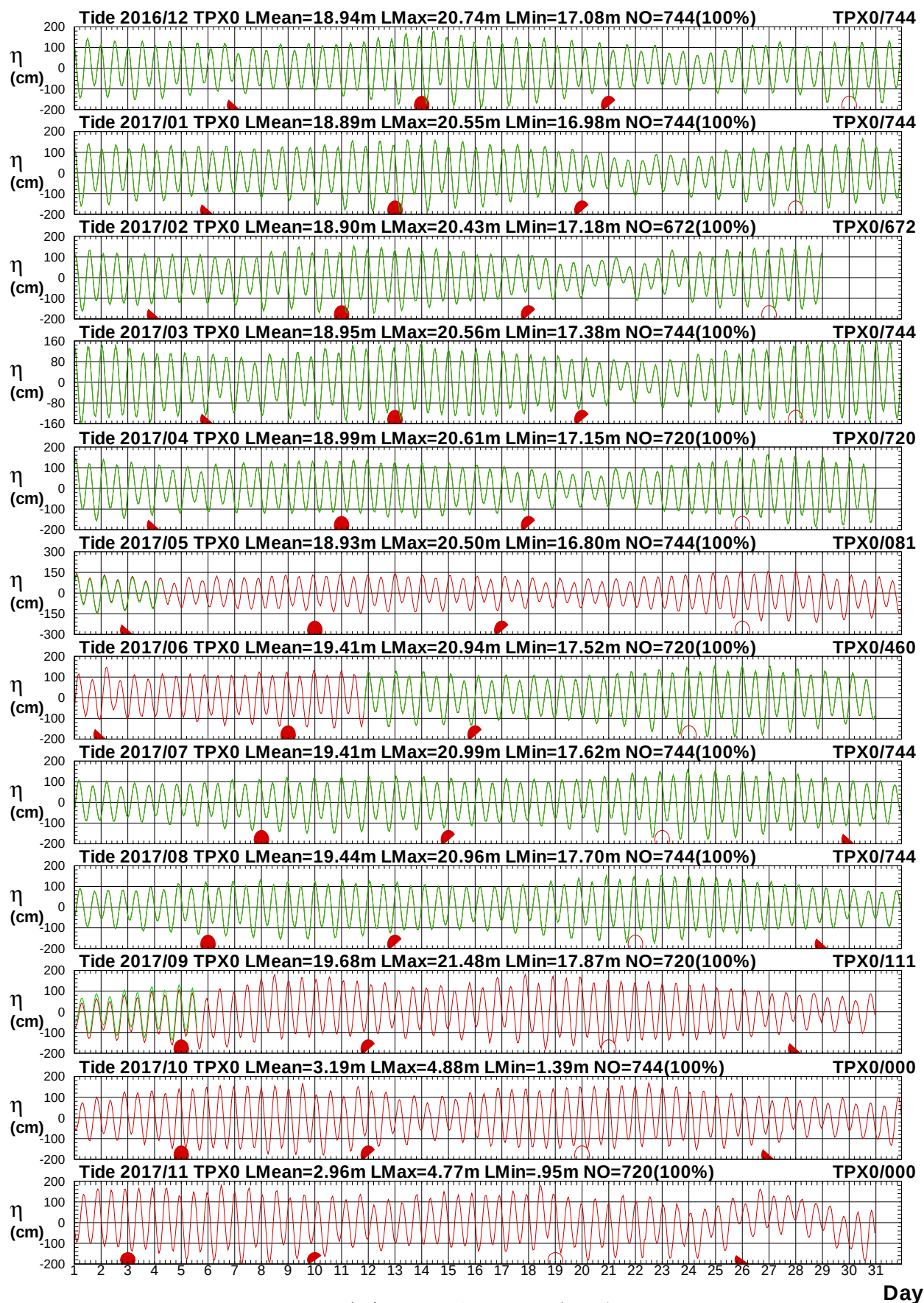


圖3.1.5 2017年每月北苗海域 X 站修補前後之潮位比較圖

T16CTPX0.1HA T16CTPX0.1H0 T171TPX0.1HA T171TPX0.1H0 T172TPX0.1HA T172TPX0.1H0
T173TPX0.1HA T173TPX0.1H0 T174TPX0.1HA T174TPX0.1H0 T175TPX0.1HA T175TPX0.1H0

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Tidal Level in Tai-Pei Harbor of TPX0 at 2017

1 ○ 8 ● 15 ● 22 ●

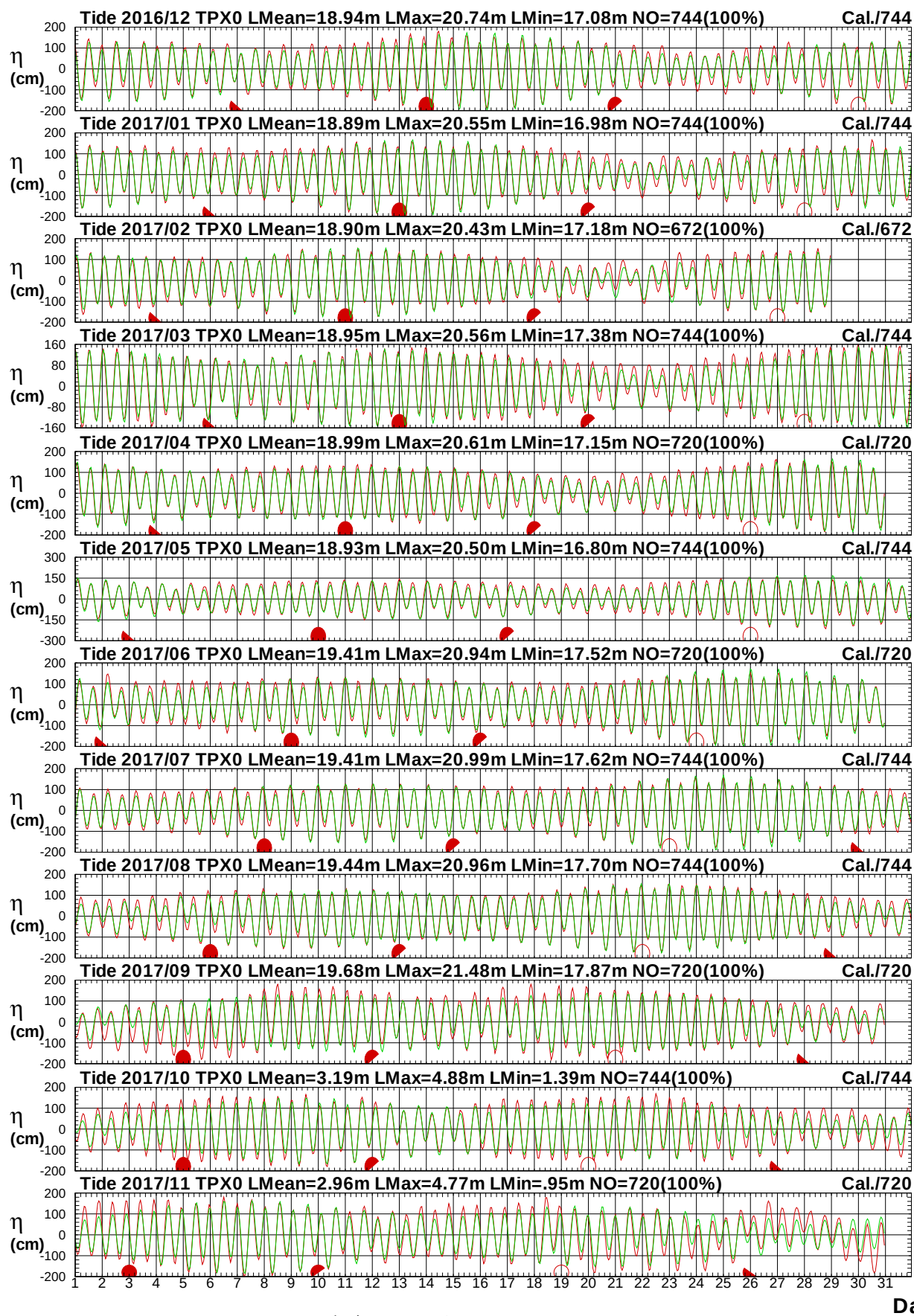


圖3.1.6 2017年每月北苗海域 X 站潮位歷線圖 (綠線: 天文潮)

T16CTPX0.1HA T16CTPT0.1HC T171TPX0.1HA T171TPT0.1HC T172TPX0.1HA T172TPT0.1HC
T173TPX0.1HA T173TPT0.1HC T174TPX0.1HA T174TPT0.1HC T175TPX0.1HA T175TPT0.1HC

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Tidal Level in Tai-Pei Harbor of TPK0 at 2017

1 ○ 8 ● 15 ● 22 ●

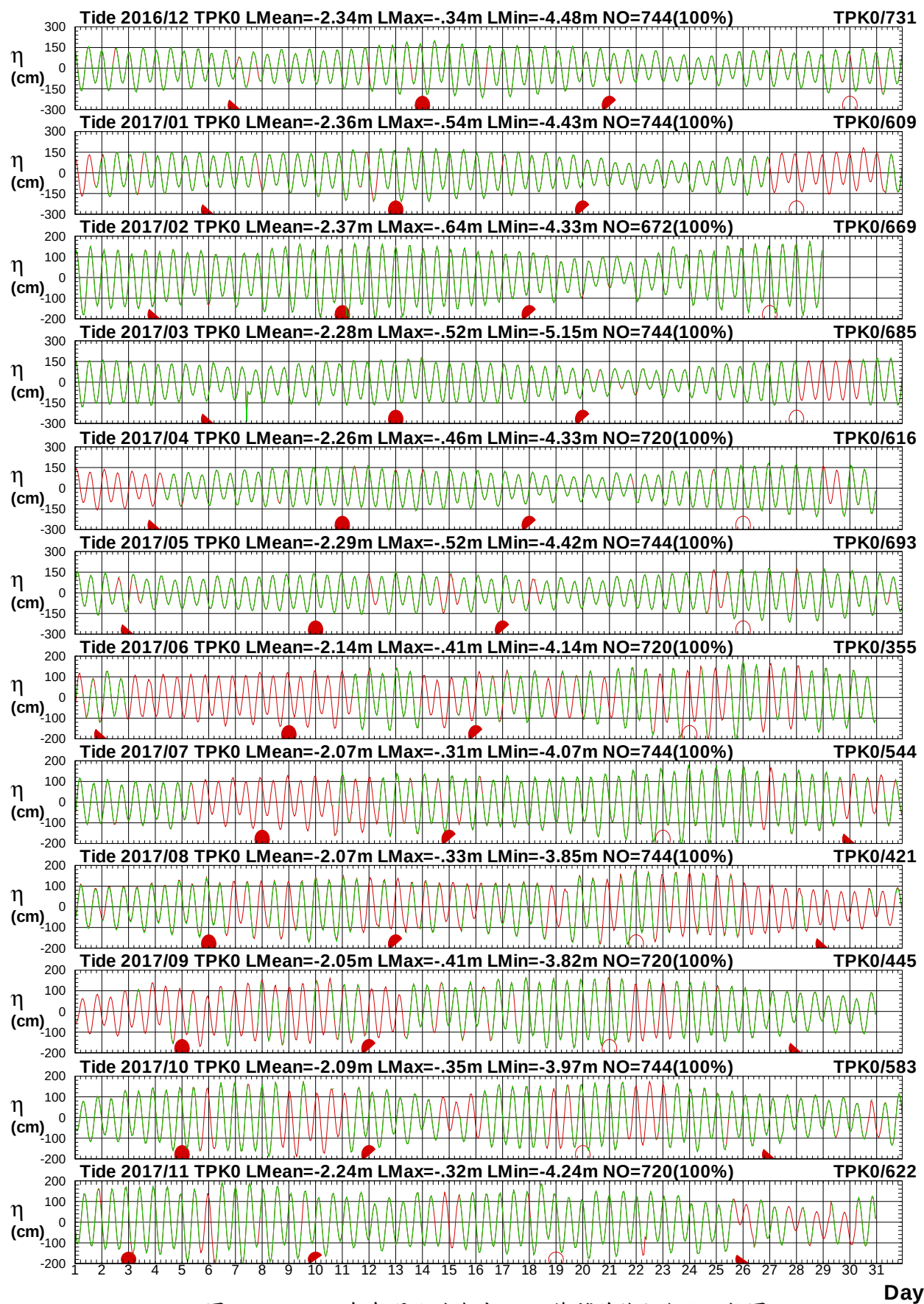


圖3.1.7 2017年每月北苗海域 K 站修補前後之潮位比較圖

T16CTPK0.1HA T16CTPK0.1H0 T171TPK0.1HA T171TPK0.1H0 T172TPK0.1HA T172TPK0.1H0
T173TPK0.1HA T173TPK0.1H0 T174TPK0.1HA T174TPK0.1H0 T175TPK0.1HA T175TPK0.1H0

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Tidal Level in Tai-Pei Harbor of TPK0 at 2017

1 ○ 8 ● 15 ● 22 ●

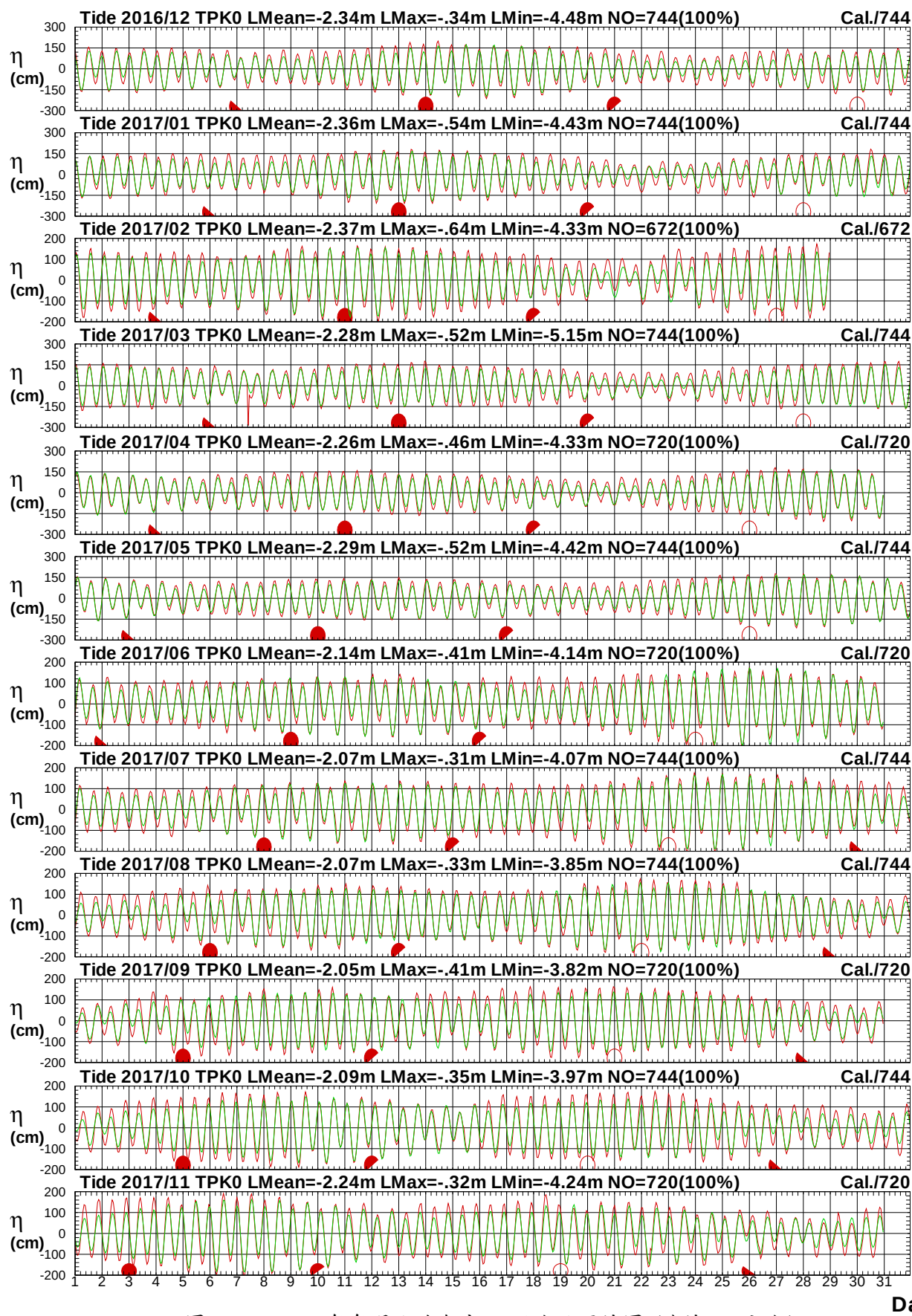


圖3.1.8 2017年每月北苗海域 K 站潮位歷線圖 (綠線: 天文潮)

T16CTPK0.1HA T16CTPT0.1HC T171TPK0.1HA T171TPT0.1HC T172TPK0.1HA T172TPT0.1HC
T173TPK0.1HA T173TPT0.1HC T174TPK0.1HA T174TPT0.1HC T175TPK0.1HA T175TPT0.1HC

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Tidal Level in Tai-Pei Harbor of TPM0 at 2017

1 ○ 8 ● 15 ● 22 ●

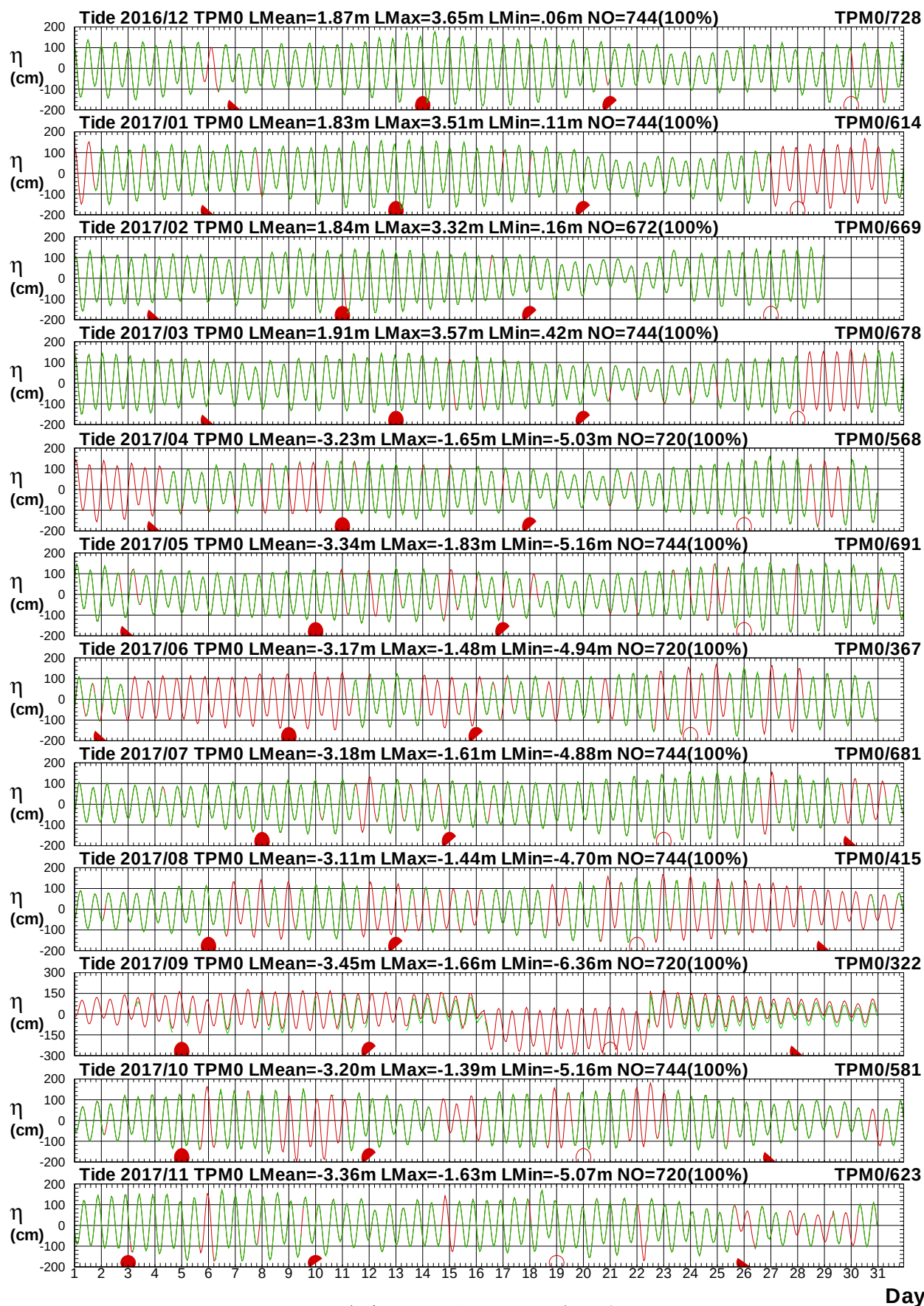


圖3.1.9 2017年每月北苗海域 M 站修補前後之潮位比較圖

T16CTPM0.1HA T16CTPM0.1H0 T171TPM0.1HA T171TPM0.1H0 T172TPM0.1HA T172TPM0.1H0
T173TPM0.1HA T173TPM0.1H0 T174TPM0.1HA T174TPM0.1H0 T175TPM0.1HA T175TPM0.1H0

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Tidal Level in Tai-Pei Harbor of TPM0 at 2017

1 ○ 8 ● 15 ● 22 ●

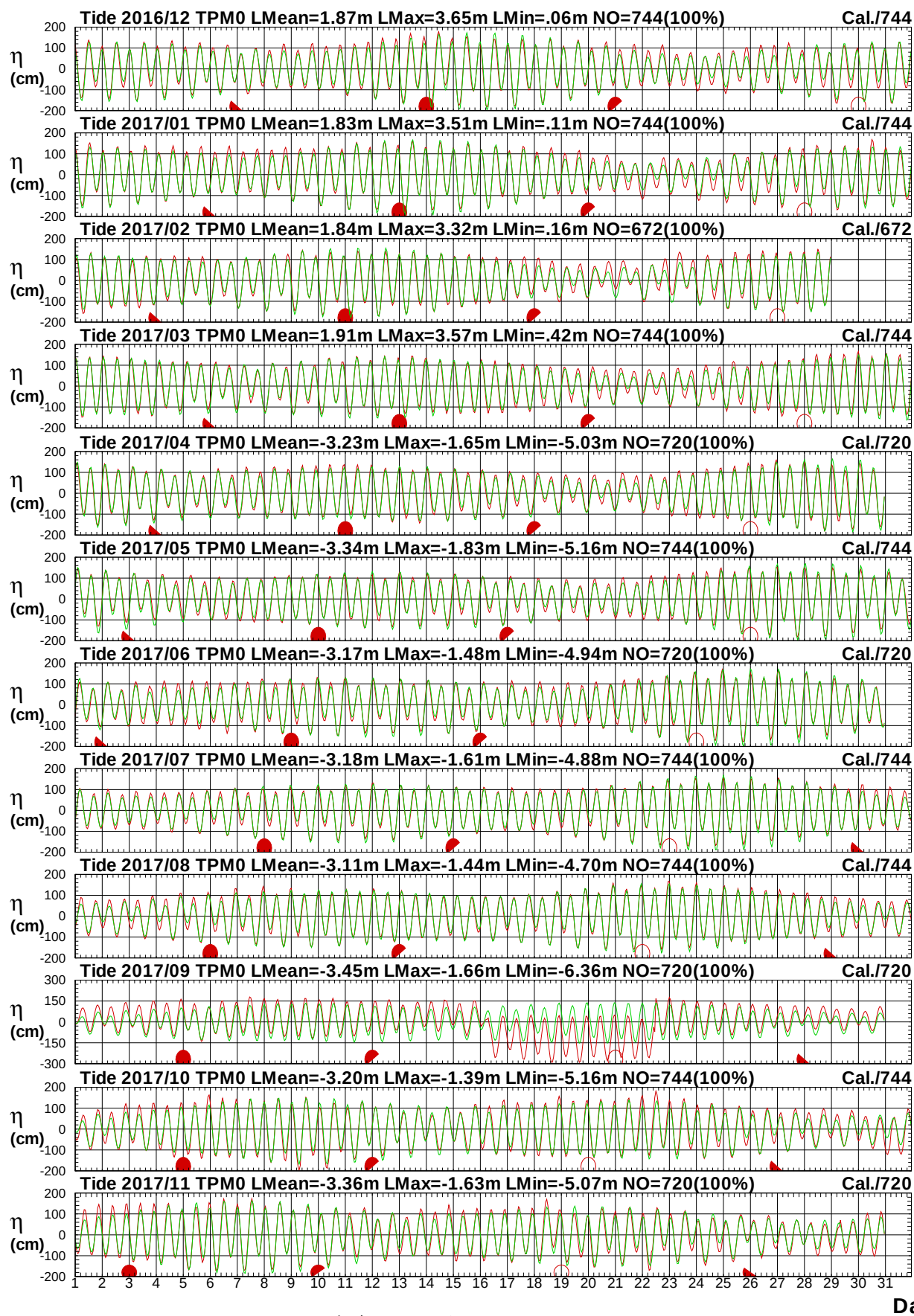


圖3.1.10 2017年每月北苗海域 M 站潮位歷線圖 (綠線: 天文潮)

T16CTPM0.1HA T16CTPT0.1HC T171TPM0.1HA T171TPT0.1HC T172TPM0.1HA T172TPT0.1HC
T173TPM0.1HA T173TPT0.1HC T174TPM0.1HA T174TPT0.1HC T175TPM0.1HA T175TPT0.1HC

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Tidal Level in Tai-Pei Harbor of TPT0 at 2017

1 ○ 8 ● 15 ● 22 ●

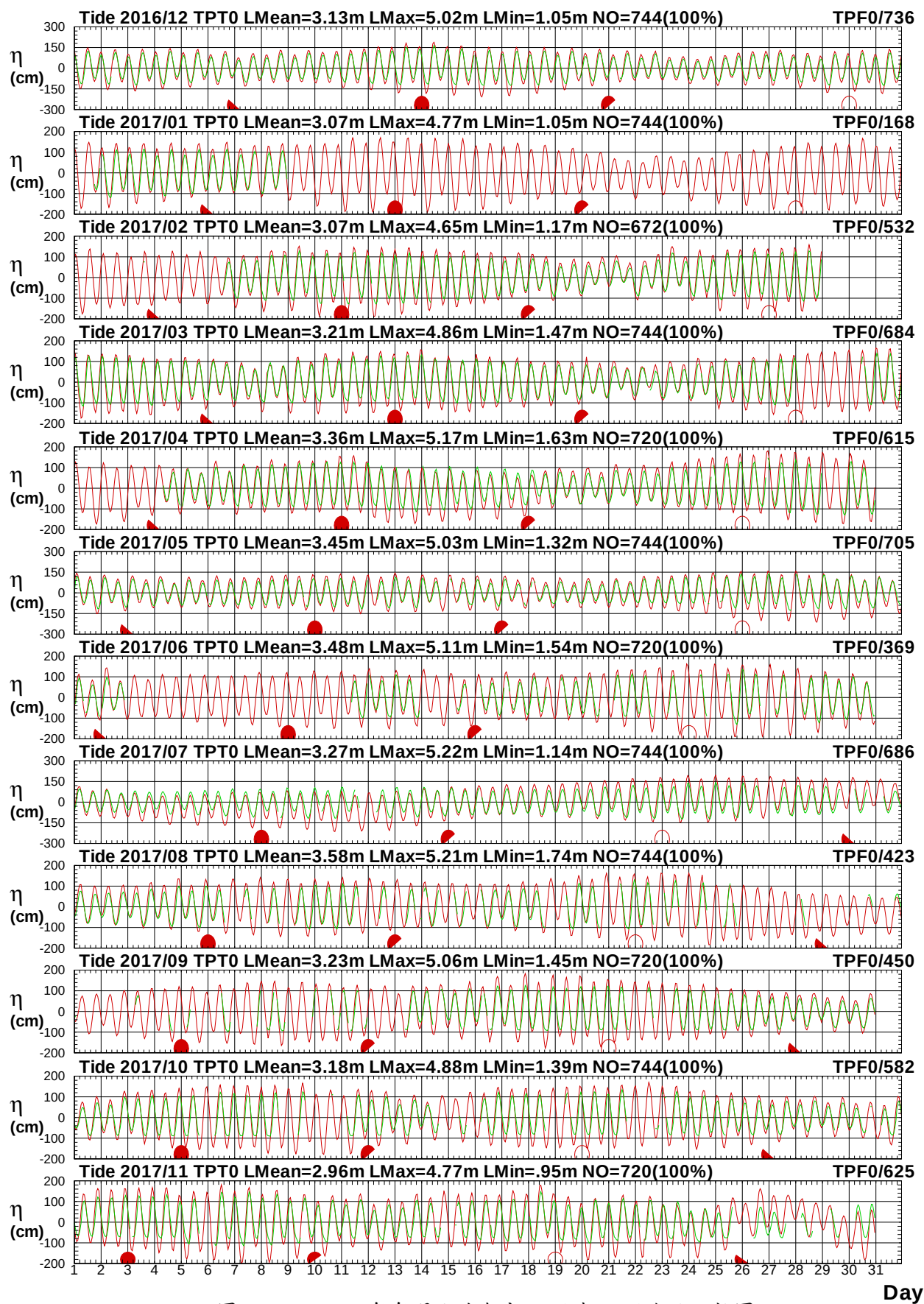


圖3.1.11 2017年每月北苗海域 T 站與 F 站潮位比較圖

T16CTPT0.1HA T16CTPF0.1H0 T171TPT0.1HA T171TPF0.1H0 T172TPT0.1HA T172TPF0.1H0
T173TPT0.1HA T173TPF0.1H0 T174TPT0.1HA T174TPF0.1H0 T175TPT0.1HA T175TPF0.1H0

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Tidal Level in Tai-Pei Harbor of TPT0 at 2017

1 ○ 8 ● 15 ● 22 ●

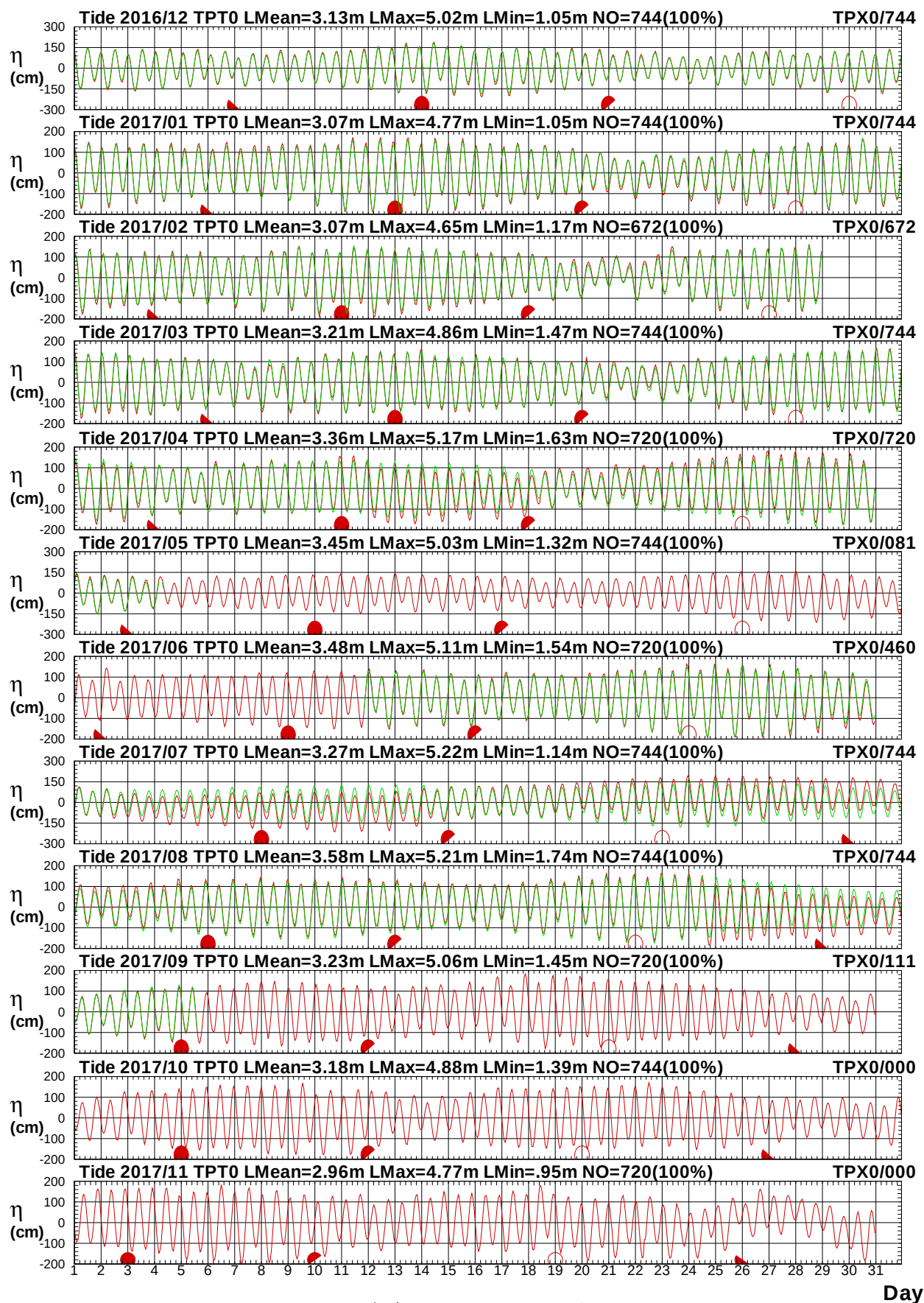


圖3.1.12 2017年每月北苗海域 T 站與 X 站潮位比較圖

T16CTPT0.1HA T16CTPX0.1H0 T171TPT0.1HA T171TPX0.1H0 T172TPT0.1HA T172TPX0.1H0
T173TPT0.1HA T173TPX0.1H0 T174TPT0.1HA T174TPX0.1H0 T175TPT0.1HA T175TPX0.1H0

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Tidal Level in Tai-Pei Harbor of TPT0 at 2017

1 ○ 8 ● 15 ● 22 ●

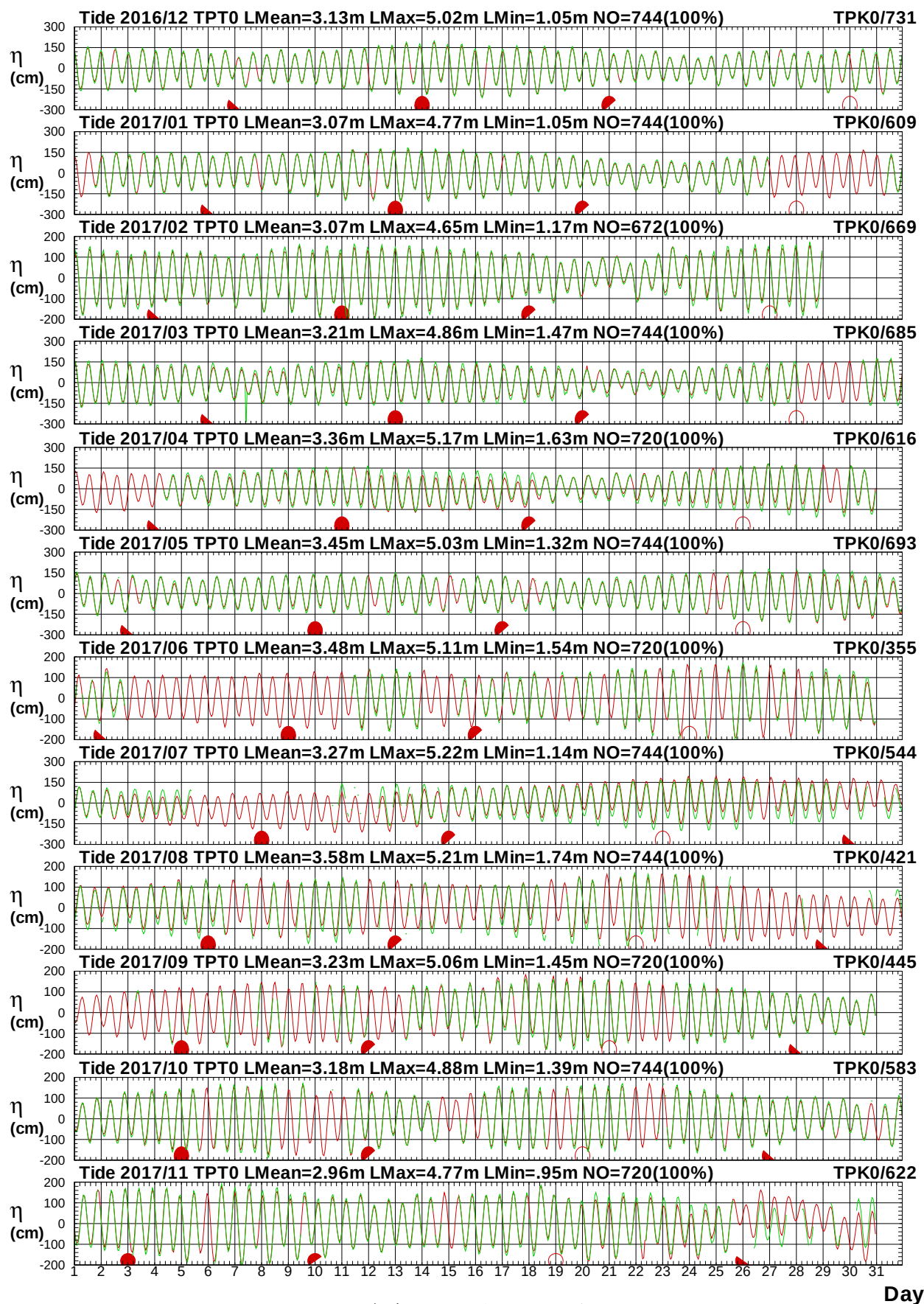


圖3.1.13 2017年每月北苗海域 T 站與 K 站潮位比較圖

T16CTPT0.1HA T16CTPK0.1H0 T171TPT0.1HA T171TPK0.1H0 T172TPT0.1HA T172TPK0.1H0
T173TPT0.1HA T173TPK0.1H0 T174TPT0.1HA T174TPK0.1H0 T175TPT0.1HA T175TPK0.1H0

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Tidal Level in Tai-Pei Harbor of TPT0 at 2017

1 ○ 8 ● 15 ● 22 ●

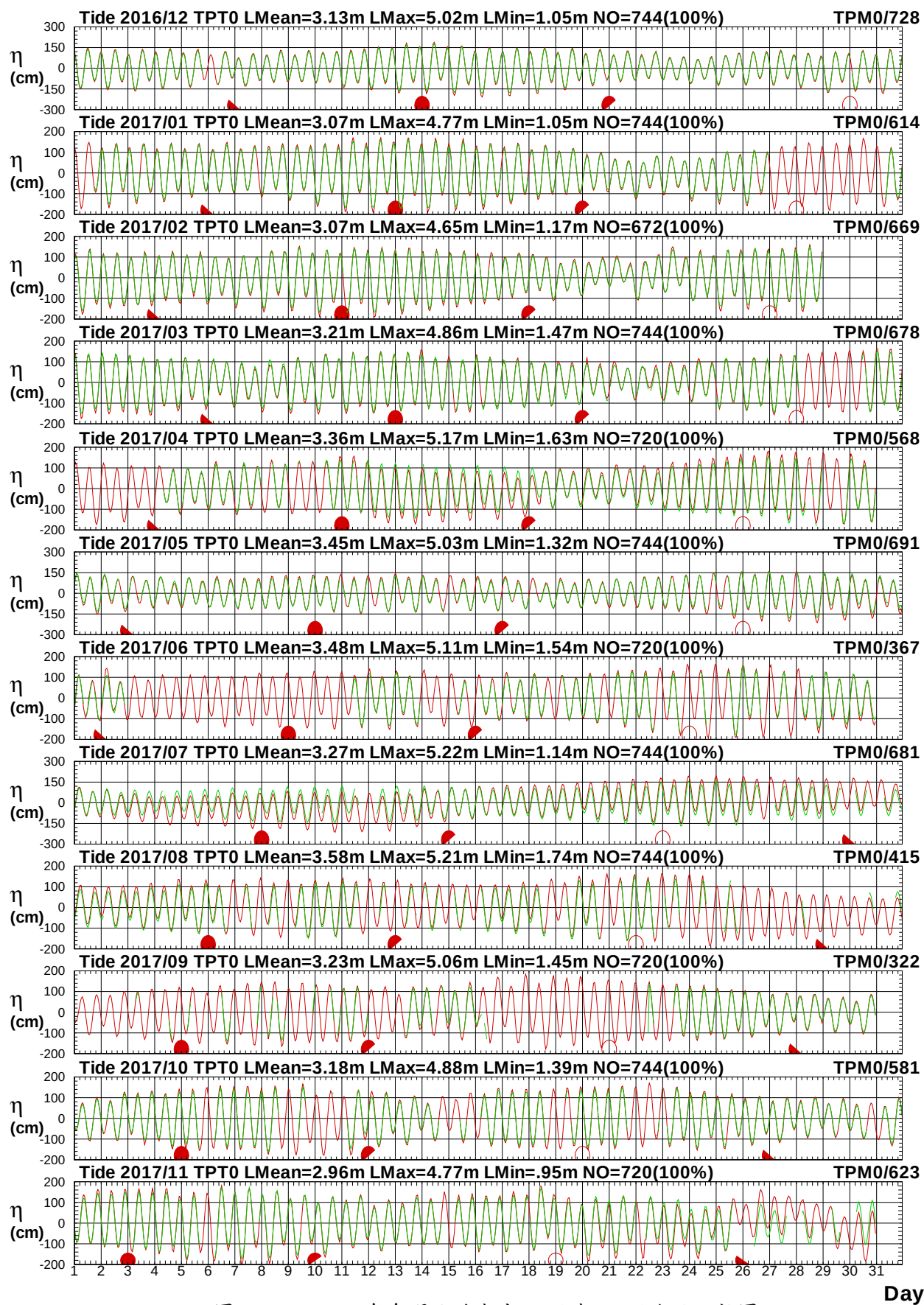


圖3.1.14 2017年每月北苗海域 T 站與 M 站潮位比較圖

T16CTPT0.1HA T16CTPM0.1H0 T171TPT0.1HA T171TPM0.1H0 T172TPT0.1HA T172TPM0.1H0
T173TPT0.1HA T173TPM0.1H0 T174TPT0.1HA T174TPM0.1H0 T175TPT0.1HA T175TPM0.1H0

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Tidal Level in Tai-Pei Harbor of TPT0 at 2017

1 ○ 8 ● 15 ● 22 ●

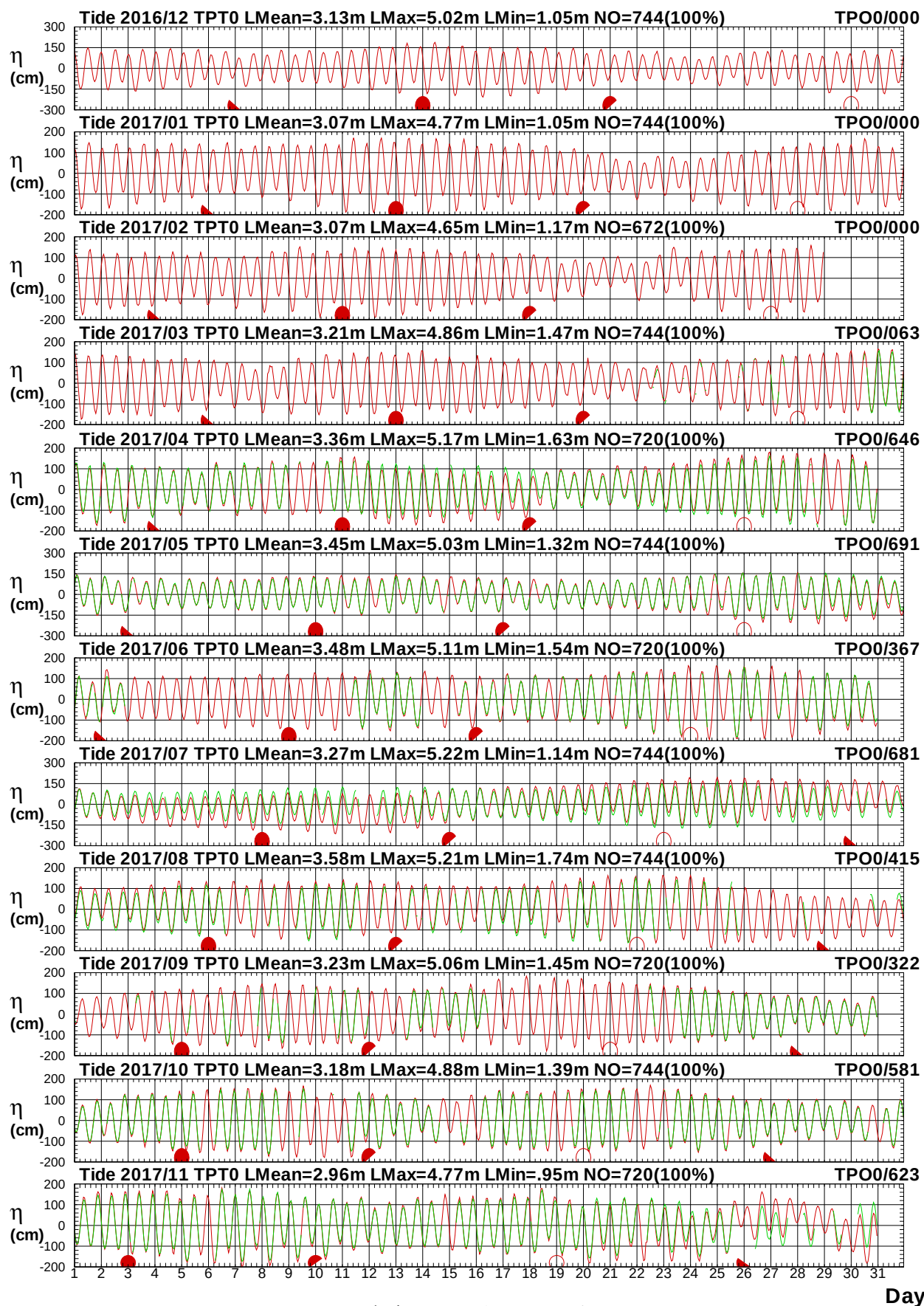


圖3.1.15 2017年每月北苗海域 T 站與 O 站潮位比較圖

T16CTPT0.1HA T16CTPO0.1H0 T171TPT0.1HA T171TPO0.1H0 T172TPT0.1HA T172TPO0.1H0
T173TPT0.1HA T173TPO0.1H0 T174TPT0.1HA T174TPO0.1H0 T175TPT0.1HA T175TPO0.1H0

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Tidal Level in Tai-Pei Harbor of TPQ0 at 2017

1 ○ 8 ● 15 ● 22 ●

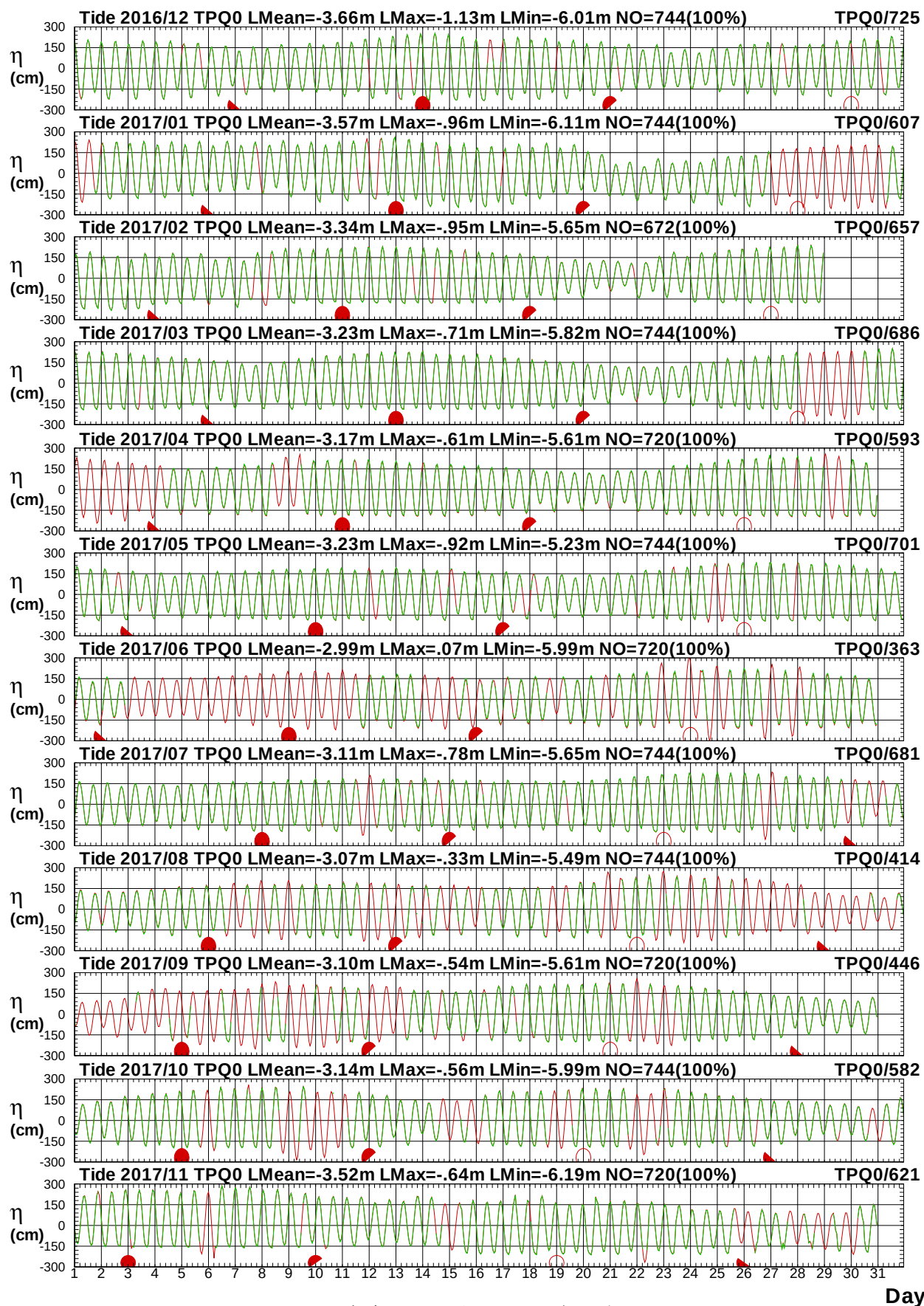


圖3.2.1 2017年每月北苗海域 Q 站修補前後之潮位比較圖

T16CTPQ0.1HA T16CTPQ0.1H0 T171TPQ0.1HA T171TPQ0.1H0 T172TPQ0.1HA T172TPQ0.1H0
T173TPQ0.1HA T173TPQ0.1H0 T174TPQ0.1HA T174TPQ0.1H0 T175TPQ0.1HA T175TPQ0.1H0

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Tidal Level in Tai-Pei Harbor of TPQ0 at 2017

1 ○ 8 ● 15 ● 22 ●

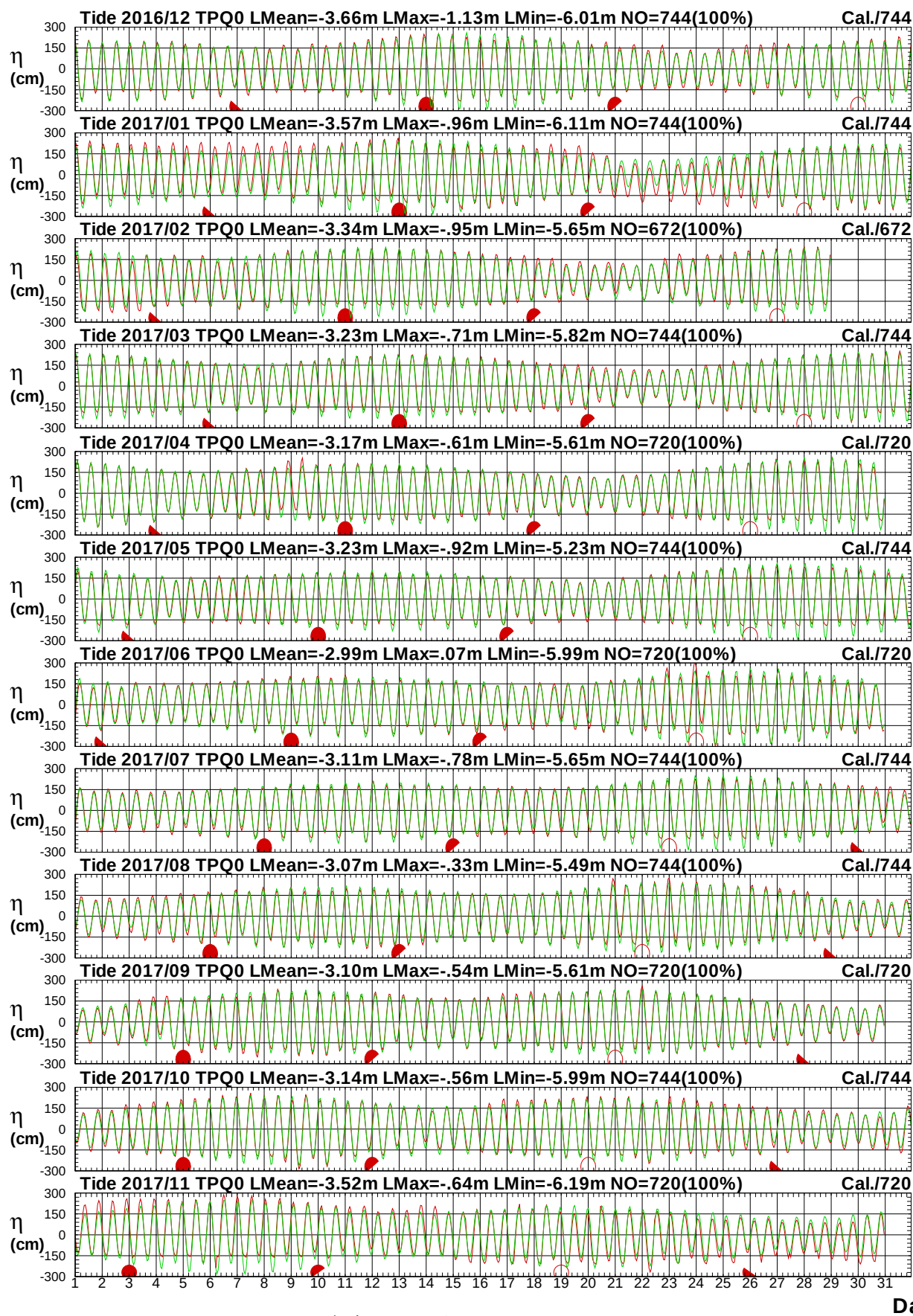


圖3.2.2 2017年每月北苗海域 Q 站潮位歷線圖 (綠線: 天文潮)

T16CTPQ0.1HA T16CTPQ0.1HC T171TPQ0.1HA T171TPQ0.1HC T172TPQ0.1HA T172TPQ0.1HC
T173TPQ0.1HA T173TPQ0.1HC T174TPQ0.1HA T174TPQ0.1HC T175TPQ0.1HA T175TPQ0.1HC

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Tidal Level in Tai-Pei Harbor of TPP0 at 2017

1 ○ 8 ● 15 ● 22 ●

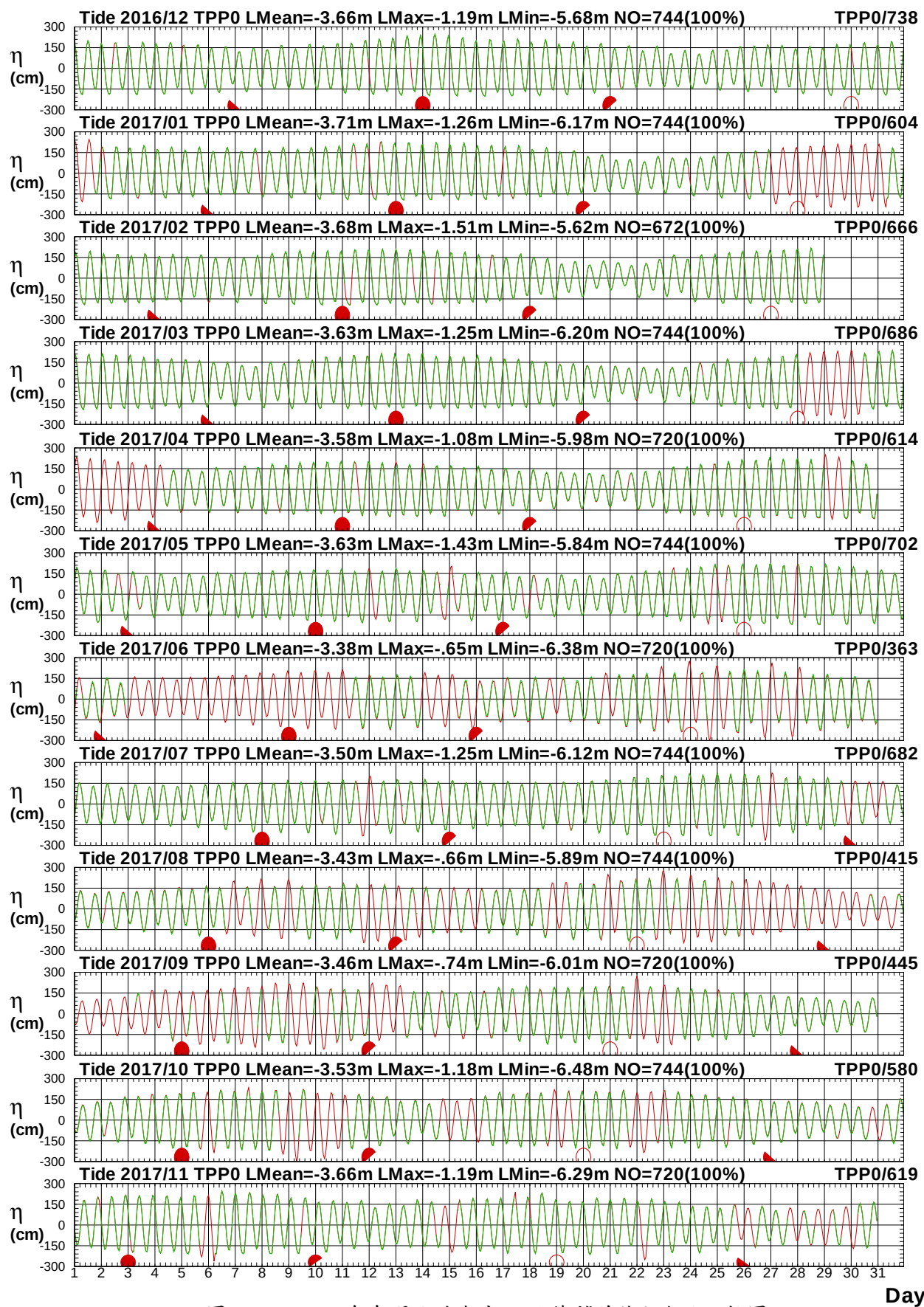


圖3.2.3 2017年每月北苗海域 P 站修補前後之潮位比較圖

T16CTPP0.1HA T16CTPP0.1H0 T171TPP0.1HA T171TPP0.1H0 T172TPP0.1HA T172TPP0.1H0
T173TPP0.1HA T173TPP0.1H0 T174TPP0.1HA T174TPP0.1H0 T175TPP0.1HA T175TPP0.1H0

Institute of Harbor & Marine Technology

Tidal Level in Tai-Pei Harbor of TPP0 at 2017

1 ○ 8 ● 15 ● 22 ●

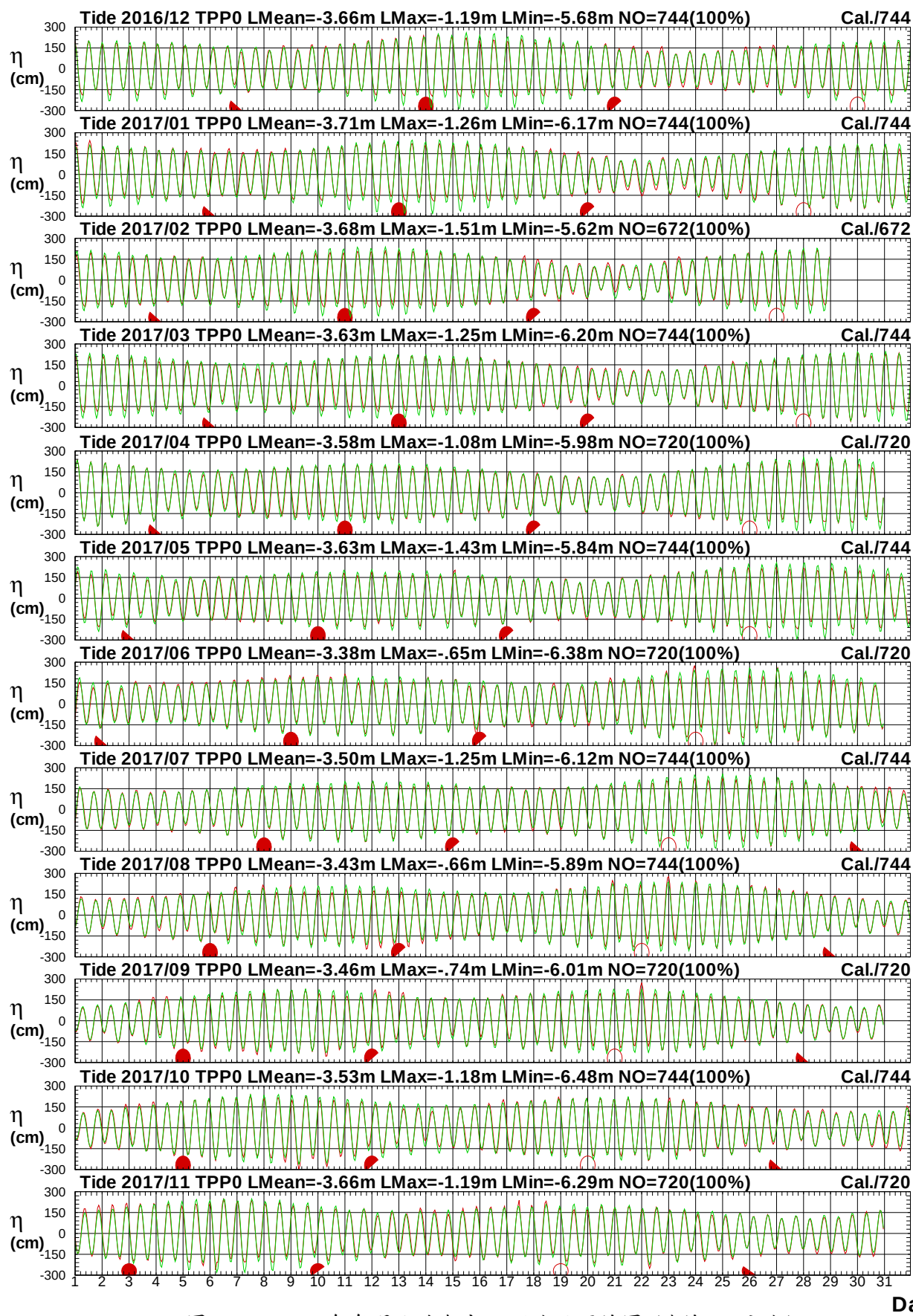


圖3.2.4 2017年每月北苗海域 P 站潮位歷線圖 (綠線: 天文潮)

T16CTPP0.1HA T16CTPQ0.1HC T171TPP0.1HA T171TPQ0.1HC T172TPP0.1HA T172TPQ0.1HC
T173TPP0.1HA T173TPQ0.1HC T174TPP0.1HA T174TPQ0.1HC T175TPP0.1HA T175TPQ0.1HC

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Tidal Level in Tai-Pei Harbor of TPQ0 at 2017

1 ○ 8 ● 15 ● 22 ●

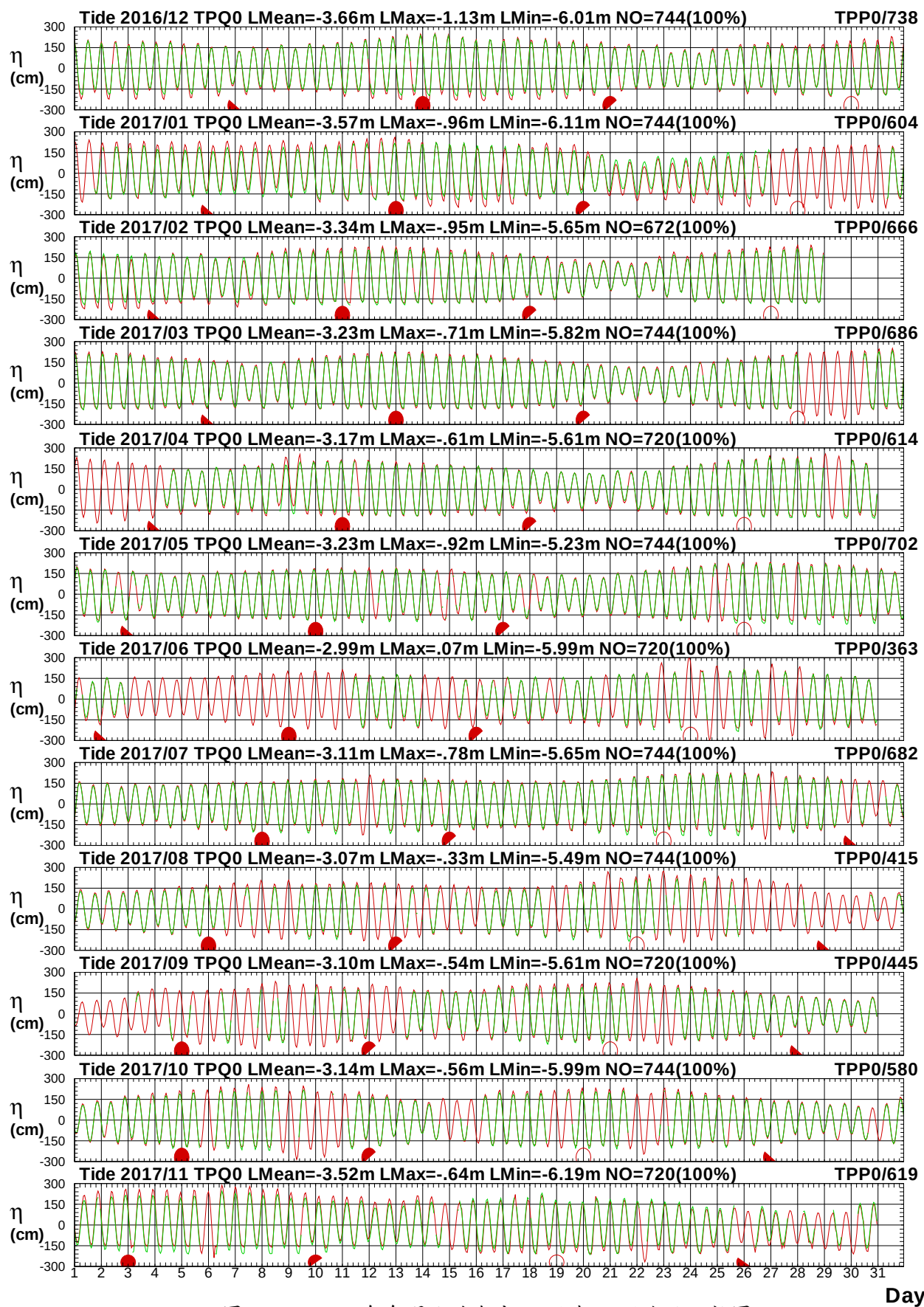


圖3.2.5 2017年每月北苗海域 Q 站與 P 站潮位比較圖

T16CTPQ0.1HA T16CTPP0.1H0 T171TPQ0.1HA T171TPP0.1H0 T172TPQ0.1HA T172TPP0.1H0
T173TPQ0.1HA T173TPP0.1H0 T174TPQ0.1HA T174TPP0.1H0 T175TPQ0.1HA T175TPP0.1H0

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第四章 2017 年北苗海域觀測海流資料

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 O 章圖 CP1)。本年報利用調和分析方法觀測海流可分解為計算潮流(包括平均流)及計算殘(餘)流(或稱非潮流)。

本海流年報資料處理之圖表包括：

1. 2017 年各觀測站每月觀測海流資料記錄表。
2. 2017 年各觀測站每月計算潮流資料記錄表。
3. 2017 年各觀測站每月觀測流速及流向重要統計量統計表。
4. 2017 年各觀測站每月計算潮流流速及流向重要統計量統計表。
5. 2017 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。
6. 2017 年各觀測站之觀測海流與計算潮流歷線比較圖。
7. 2017 年各觀測站之觀測海流與計算殘(餘)流歷線比較圖。
8. 2017 年各觀測站之觀測海流、計算潮流及計算殘流等 3 個向量分布圖。
9. 2017 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 4.1a 2017 年每月北宜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											
2016/12 月	744(100%)	*	*	*	*	*	*	*	*	*	*	*
2017/ 1 月	744(100%)	*	*	*	*	*	*	*	*	*	*	*
2017/ 2 月	672(100%)	*	*	*	*	*	*	*	*	*	*	*
2017/ 3 月	744(100%)	*	*	*	*	*	*	*	*	*	*	*
2017/ 4 月	720(100%)	*	*	*	*	*	*	*	*	*	*	*
2017/ 5 月	81(10.9%)	*	*	*	*	*	*	*	*	*	*	*
2017/ 6 月	461(64.0%)	*	*	*	*	*	*	*	*	*	*	*
2017/ 7 月	744(100%)	*	*	*	*	*	*	*	*	*	*	*
2017/ 8 月	744(100%)	*	*	*	*	*	*	*	*	*	*	*
2017/ 9 月	111(15.4%)	*	*	*	*	*	*	*	*	*	*	*
2017/10 月	*	*	*	*	*	*	*	*	*	*	*	*
2017/11 月	*	*	*	*	*	*	*	*	*	*	*	*
2017/冬季	2160(100%)	*	*	*	*	*	*	*	*	*	*	*
2017/春季	1545(70.0%)	*	*	*	*	*	*	*	*	*	*	*
2017/夏季	1949(88.3%)	*	*	*	*	*	*	*	*	*	*	*
2017/秋季	111(5.1%)	*	*	*	*	*	*	*	*	*	*	*
2017/整年	5765(65.8%)	*	*	*	*	*	*	*	*	*	*	*
起始年月	2016/12	*	*	*	*	*	*	*	*	*	*	*
結束年月	2017/09	*	*	*	*	*	*	*	*	*	*	*

表 4.1b 2017 年每月北宜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											
2016/12 月	744(100%)	*	*	*	*	*	*	*	*	*	*	*
2017/ 1 月	744(100%)	*	*	*	*	*	*	*	*	*	*	*
2017/ 2 月	672(100%)	*	*	*	*	*	*	*	*	*	*	*
2017/ 3 月	744(100%)	*	*	*	*	*	*	*	*	*	*	*
2017/ 4 月	720(100%)	*	*	*	*	*	*	*	*	*	*	*
2017/ 5 月	744(100%)	*	*	*	*	*	*	*	*	*	*	*
2017/ 6 月	720(100%)	*	*	*	*	*	*	*	*	*	*	*
2017/ 7 月	744(100%)	*	*	*	*	*	*	*	*	*	*	*
2017/ 8 月	744(100%)	*	*	*	*	*	*	*	*	*	*	*
2017/ 9 月	720(100%)	*	*	*	*	*	*	*	*	*	*	*
2017/10 月	744(100%)	*	*	*	*	*	*	*	*	*	*	*
2017/11 月	720(100%)	*	*	*	*	*	*	*	*	*	*	*
2017/冬季	2160(100%)	*	*	*	*	*	*	*	*	*	*	*
2017/春季	2208(100%)	*	*	*	*	*	*	*	*	*	*	*
2017/夏季	2208(100%)	*	*	*	*	*	*	*	*	*	*	*
2017/秋季	2184(100%)	*	*	*	*	*	*	*	*	*	*	*
2017/整年	8760(100%)	*	*	*	*	*	*	*	*	*	*	*
起始年月	2016/12	*	*	*	*	*	*	*	*	*	*	*
結束年月	2017/11	*	*	*	*	*	*	*	*	*	*	*

表 4.2a 2017 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	2016/12	744(100%)	48.1	.5/NW	118.9/ENE	19.1	35.9	44.2	.8	42.3	5.0	47.0	5.6	ENE/32.1%
2	2017/01	744(100%)	47.5	.2/SSE	106.6/NE	20.4	34.7	44.5	.4	41.1	6.3	47.6	5.0	ENE/30.6%
3	2017/02	672(100%)	44.7	.5/SSW	101.6/ENE	25.1	33.9	40.9	.0	39.9	5.5	47.8	6.8	ENE/31.5%
4	2017/03	744(100%)	42.3	1.3/N	110.8/ENE	24.3	41.1	34.4	.1	42.3	4.3	47.7	5.6	ENE/31.5%
5	2017/04	720(100%)	32.7	3.2/NNE	96.0/ENE	43.2	37.1	19.7	.0	41.7	6.3	43.3	8.8	ENE/23.5%
6	2017/05	81(11%)	23.5	1.1/NNW	56.7/ENE	60.5	35.8	3.7	.0	42.0	6.2	42.0	9.9	SW /21.0%
7	2017/06	461(64%)	47.4	8.6/NW	113.2/NE	19.1	35.8	44.3	.9	38.2	1.7	39.5	20.6	ENE/26.2%
8	2017/07	744(100%)	44.6	4.5/N	122.7/ENE	21.1	41.5	37.0	.4	41.5	6.5	40.1	12.0	ENE/28.4%
9	2017/08	744(100%)	42.1	4.8/NE	107.1/NE	27.2	37.9	34.8	.1	43.0	6.7	40.7	9.5	ENE/30.1%
10	2017/09	111(15%)	36.1	4.4/N	78.2/ENE	30.6	47.7	21.6	.0	42.3	2.7	43.2	11.7	ENE/28.8%
11	2017/10													
12	2017/11													
13	2017/冬	2160(100%)	46.8	.2/WSW	118.9/ENE	21.4	34.9	43.3	.4	41.2	5.6	47.5	5.8	ENE/31.4%
14	2017/春	1545(70%)	36.8	2.1/NNE	110.8/ENE	35.0	39.0	26.0	.1	42.0	5.3	45.4	7.3	ENE/27.1%
15	2017/夏	1949(88%)	44.3	4.5/N	122.7/ENE	22.9	38.8	37.9	.4	41.3	5.4	40.2	13.1	ENE/28.5%
16	2017/秋	111(5%)	36.1	4.4/N	78.2/ENE	30.6	47.7	21.6	.0	42.3	2.7	43.2	11.7	ENE/28.8%
17	2017/年	5765(66%)	43.1	2.1/N	122.7/ENE	25.8	37.5	36.4	.3	41.5	5.4	44.4	8.8	ENE/29.2%

表4.2b 2017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	2016/12	744(100%)	23.7	2.1/N	54.3/ENE	57.4	41.7	.9	.0	45.8	4.0	42.7	7.4	WSW/23.4%
2	2017/01	744(100%)	24.4	2.1/N	55.4/WSW	55.4	43.0	1.6	.0	45.6	4.3	43.0	7.1	WSW/23.8%
3	2017/02	672(100%)	23.7	2.1/N	55.4/WSW	57.6	40.9	1.5	.0	46.9	2.7	42.7	7.7	WSW/24.4%
4	2017/03	744(100%)	25.1	2.1/N	57.5/ENE	53.4	43.3	3.4	.0	46.1	4.2	42.6	7.1	WSW/24.7%
5	2017/04	720(100%)	24.7	2.1/N	58.7/ENE	53.9	42.9	3.2	.0	46.3	3.8	42.4	7.6	WSW/25.3%
6	2017/05	744(100%)	24.7	2.1/N	57.3/ENE	54.6	43.5	1.9	.0	45.4	4.4	42.6	7.5	WSW/24.5%
7	2017/06	720(100%)	24.0	2.1/N	55.3/WSW	56.1	42.4	1.5	.0	47.1	2.5	43.2	7.2	WSW/24.9%
8	2017/07	744(100%)	23.3	2.1/N	53.3/WSW	58.3	40.7	.9	.0	46.5	4.0	41.7	7.8	WSW/24.7%
9	2017/08	744(100%)	23.0	2.1/N	54.8/WSW	59.1	39.9	.9	.0	46.2	3.9	42.6	7.3	WSW/23.7%
10	2017/09	720(100%)	23.5	2.1/N	55.2/ENE	57.8	40.4	1.8	.0	46.4	3.8	42.5	7.4	WSW/23.8%
11	2017/10	744(100%)	23.7	2.1/N	57.1/ENE	57.9	39.8	2.3	.0	46.1	4.2	42.3	7.4	WSW/24.5%
12	2017/11	720(100%)	24.2	2.1/N	58.8/ENE	56.3	41.3	2.5	.0	47.1	3.6	42.6	6.7	WSW/25.3%
13	2017/冬	2160(100%)	24.0	2.1/N	55.4/WSW	56.8	41.9	1.3	.0	46.1	3.7	42.8	7.4	WSW/23.8%
14	2017/春	2208(100%)	24.8	2.1/N	58.7/ENE	53.9	43.3	2.8	.0	45.9	4.1	42.5	7.4	WSW/24.8%
15	2017/夏	2208(100%)	23.4	2.1/N	55.3/WSW	57.9	41.0	1.1	.0	46.6	3.5	42.5	7.4	WSW/24.4%
16	2017/秋	2184(100%)	23.8	2.1/N	58.8/ENE	57.3	40.5	2.2	.0	46.5	3.8	42.5	7.1	WSW/24.5%
17	2017/年	8760(100%)	24.0	2.1/N	58.8/ENE	56.5	41.7	1.9	.0	46.3	3.8	42.6	7.4	WSW/24.4%

表 4.2c 2017 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	2016/12	744(100%)	15.1	.0/W	67.5/W	85.1	13.7	1.2	.0	35.2	15.3	35.9	13.6	ENE/16.9%
2	2017/01	744(100%)	13.3	.0/ENE	53.7/SW	88.4	11.2	.4	.0	35.3	15.6	30.5	18.5	ENE/14.5%
3	2017/02	672(100%)	14.1	.0/SSE	78.6/W	87.1	12.4	.6	.0	37.5	13.1	34.4	15.0	ENE/13.8%
4	2017/03	744(100%)	14.5	.0/WSW	65.1/W	86.2	13.3	.5	.0	35.1	15.5	35.9	13.6	ENE/16.7%
5	2017/04	720(100%)	15.3	.0/ENE	63.5/W	84.9	14.9	.3	.0	33.5	15.0	37.1	14.4	WSW/16.4%
6	2017/05	81(11%)	10.8	.1/ENE	29.5/WSW	96.3	3.7	.0	.0	23.5	22.2	30.9	23.5	ENE/ 9.9%
7	2017/06	461(64%)	19.5	.1/NE	90.6/SSW	77.2	20.4	2.4	.0	32.5	24.7	23.9	18.9	E /15.8%
8	2017/07	744(100%)	18.0	.0/SSE	83.8/W	78.9	18.8	2.3	.0	28.2	23.9	29.0	18.8	E /12.9%
9	2017/08	744(100%)	15.5	.0/SSE	67.7/WSW	85.5	13.2	1.3	.0	28.6	22.2	30.4	18.8	ENE/13.6%
10	2017/09	111(15%)	12.5	.0/WSW	56.9/W	91.9	7.2	.9	.0	33.3	20.7	30.6	15.3	ENE/15.3%
11	2017/10													
12	2017/11													
13	2017/冬	2160(100%)	14.4	.0/SSW	77.9/W	86.3	12.9	.8	.0	35.9	15.2	34.1	14.8	ENE/15.8%
14	2017/春	1545(70%)	15.8	.0/ENE	66.5/W	81.5	18.1	.4	.0	35.3	13.5	38.3	13.0	ENE/17.3%
15	2017/夏	1949(88%)	17.7	.0/NE	109.4/SW	79.3	18.6	2.1	.1	28.7	23.5	27.3	20.5	E /13.3%
16	2017/秋	111(5%)	12.5	.0/WSW	56.9/W	91.9	7.2	.9	.0	33.3	20.7	30.6	15.3	ENE/15.3%
17	2017/年	5765(66%)	34.4	.0/ENE	127.1/WSW	38.4	42.5	18.8	.4	39.7	7.1	45.0	8.1	ENE/25.7%

Current Speed in Tai-Pei Harbor of TPX0 at 2017

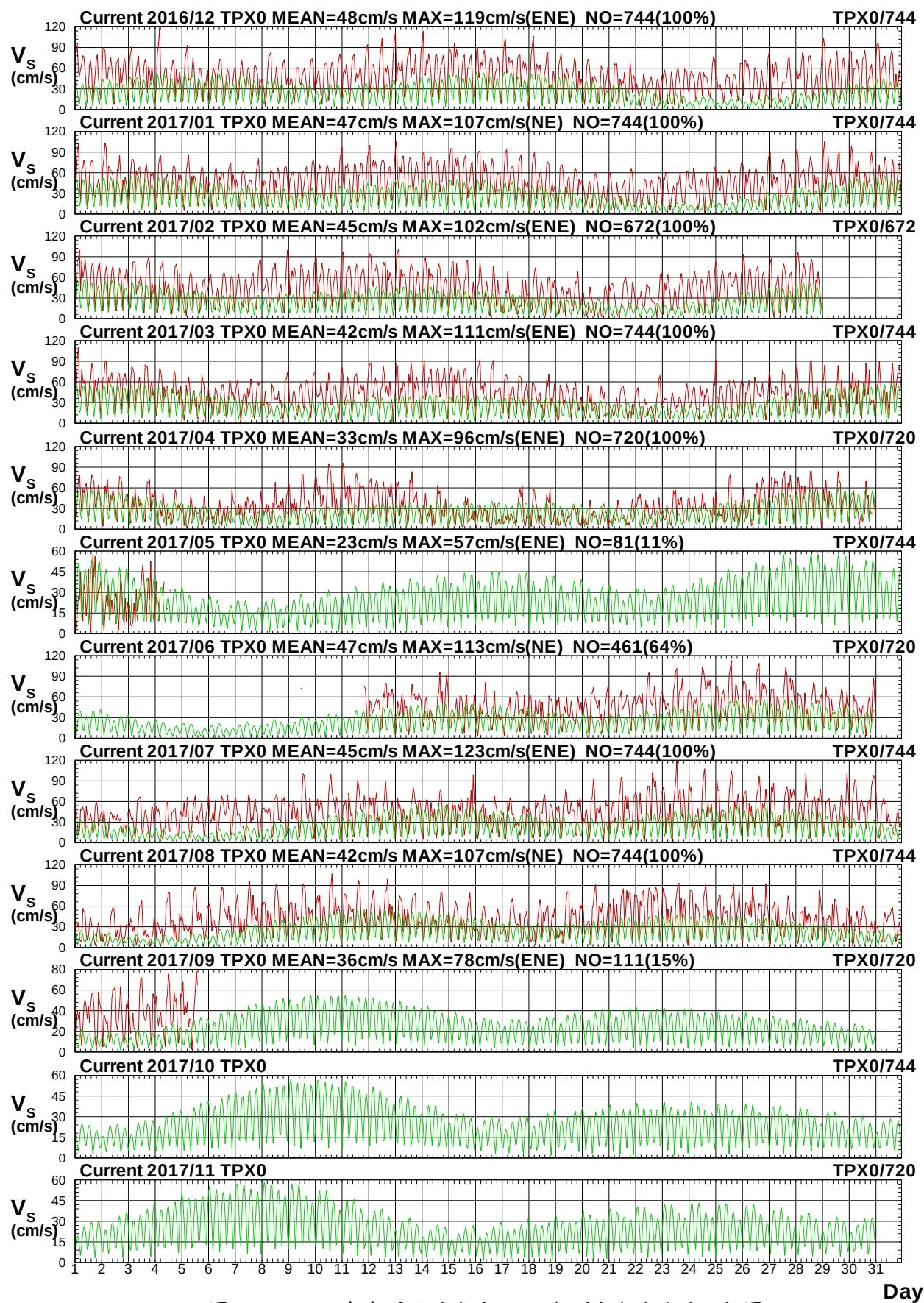


圖4.1a 2017年每月北苗海域 X 站觀測與潮流流速比較圖

C16CTPX0.1H0 C16CTPX0.1HD C171TPX0.1H0 C171TPX0.1HD C172TPX0.1H0 C172TPX0.1HD
C173TPX0.1H0 C173TPX0.1HD C174TPX0.1H0 C174TPX0.1HD C175TPX0.1H0 C175TPX0.1HD

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Current Direction in Tai-Pei Harbor of TPX0 at 2017

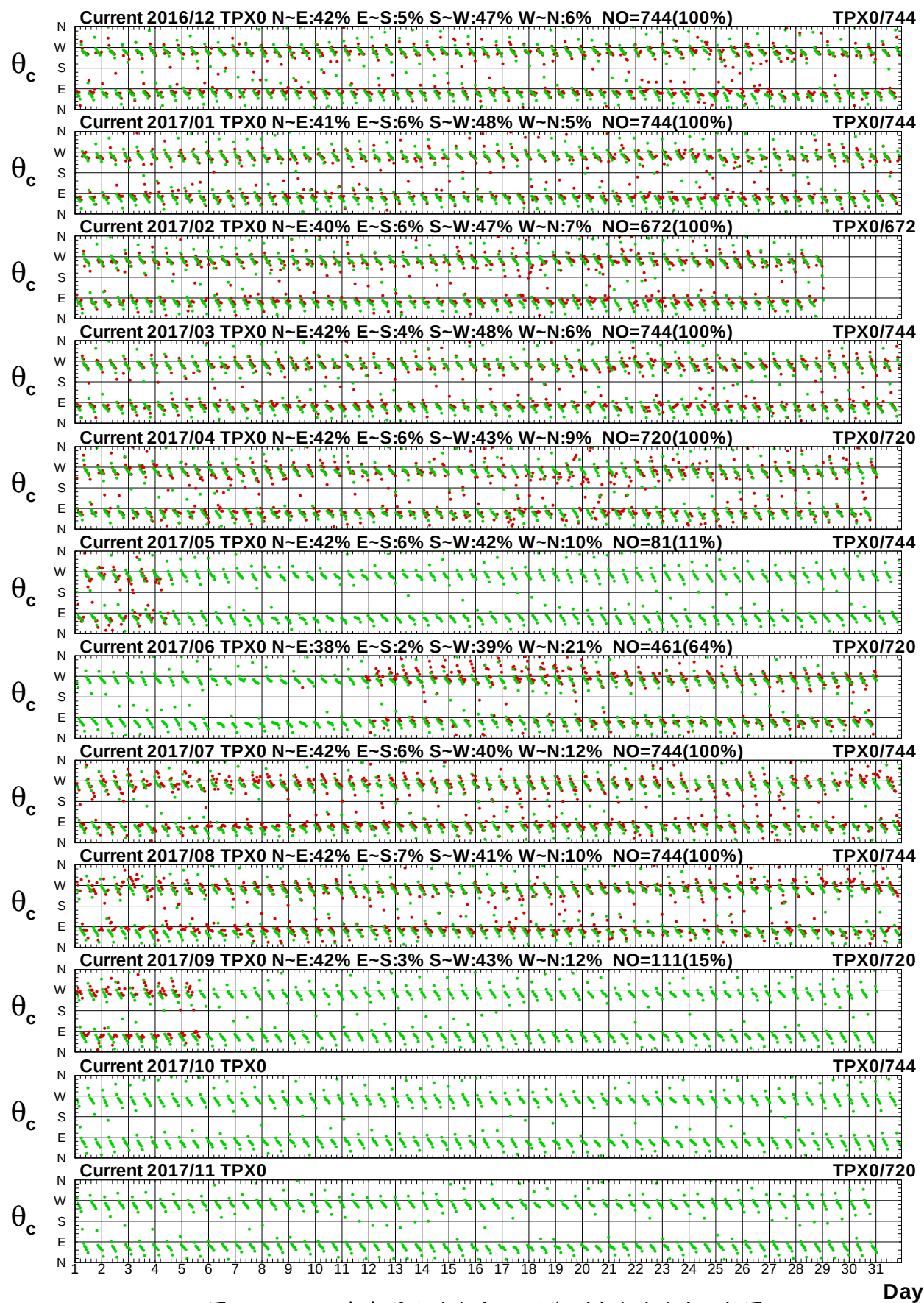


圖4.1b 2017年每月北苗海域 X 站觀測與潮流流向比較圖

C16CTPX0.1H0 C16CTPX0.1HD C171TPX0.1H0 C171TPX0.1HD C172TPX0.1H0 C172TPX0.1HD
C173TPX0.1H0 C173TPX0.1HD C174TPX0.1H0 C174TPX0.1HD C175TPX0.1H0 C175TPX0.1HD

Institute of Harbor & Marine Technology

Current Speed in Tai-Pei Harbor of TPX0 at 2017

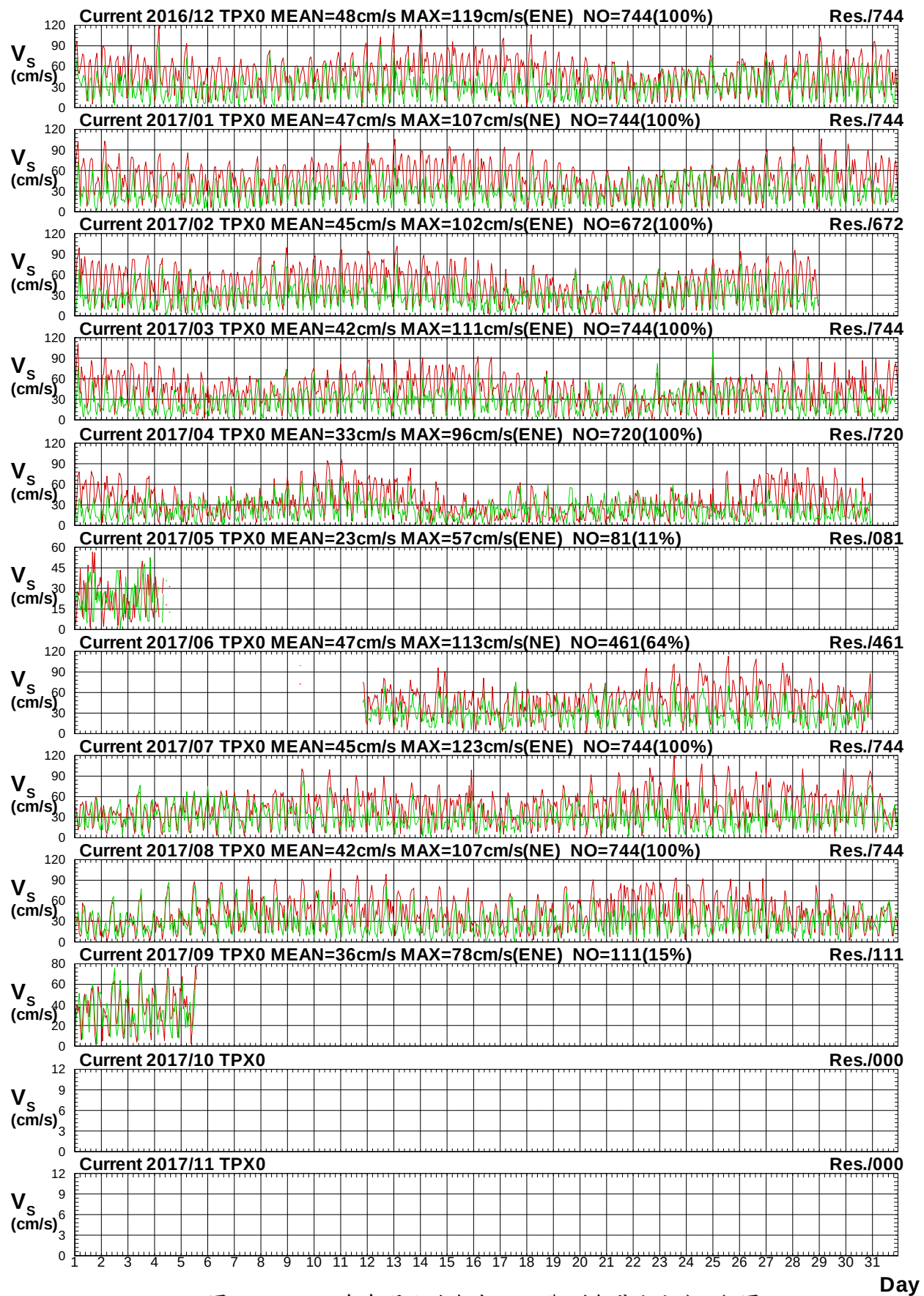


圖4.2a 2017年每月北苗海域 X 站觀測與殘流流速比較圖

C16CTPX0.1H0 C16CTPX0.1HR C171TPX0.1H0 C171TPX0.1HR C172TPX0.1H0 C172TPX0.1HR
C173TPX0.1H0 C173TPX0.1HR C174TPX0.1H0 C174TPX0.1HR C175TPX0.1H0 C175TPX0.1HR

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Current Direction in Tai-Pei Harbor of TPX0 at 2017

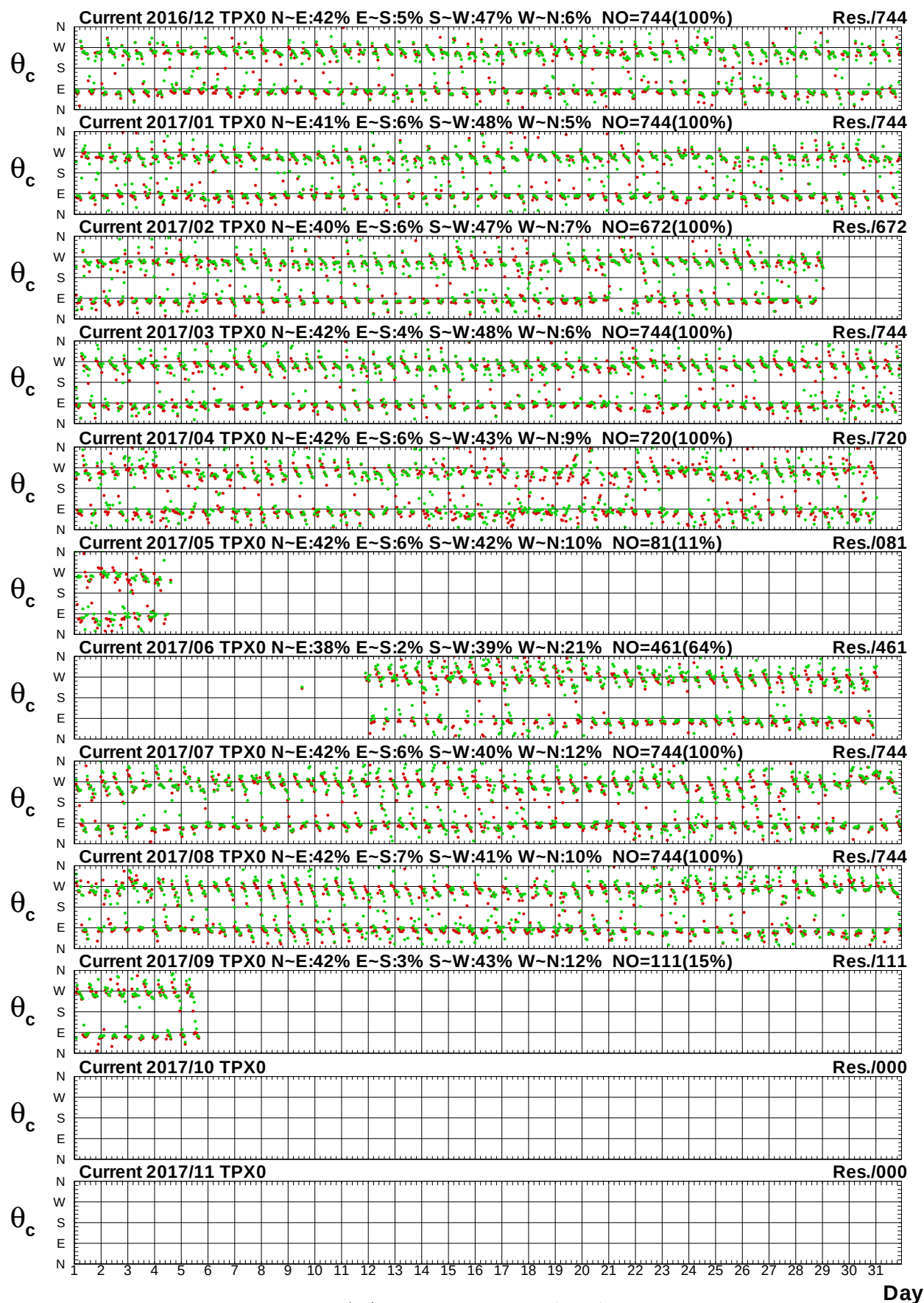


圖4.2b 2017年每月北苗海域 X 站觀測與殘流流向比較圖

C16CTPX0.1H0 C16CTPX0.1HR C171TPX0.1H0 C171TPX0.1HR C172TPX0.1H0 C172TPX0.1HR
C173TPX0.1H0 C173TPX0.1HR C174TPX0.1H0 C174TPX0.1HR C175TPX0.1H0 C175TPX0.1HR

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Distribution of Current Vectors

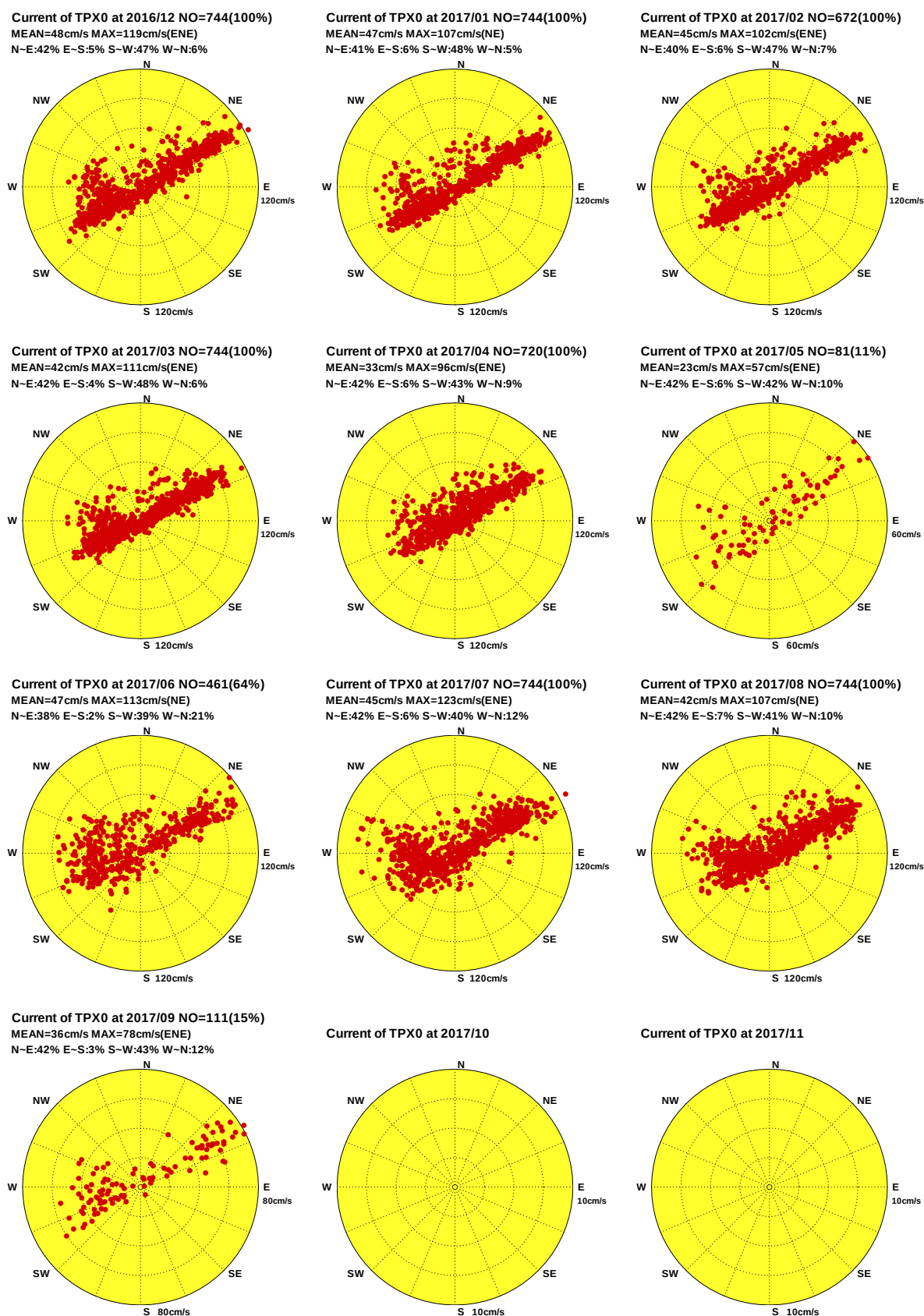


圖4.3a 2017年北苗海域每月測站 X 觀測海流向量分佈圖

C16CTPX0.1H0 C171TPX0.1H0 C172TPX0.1H0 C173TPX0.1H0 C174TPX0.1H0 C175TPX0.1H0
C176TPX0.1H0 C177TPX0.1H0 C178TPX0.1H0 C179TPX0.1H0 C17ATPX0.1H0 C17BTPX0.1H0

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Progressive Vector Diagram of Current

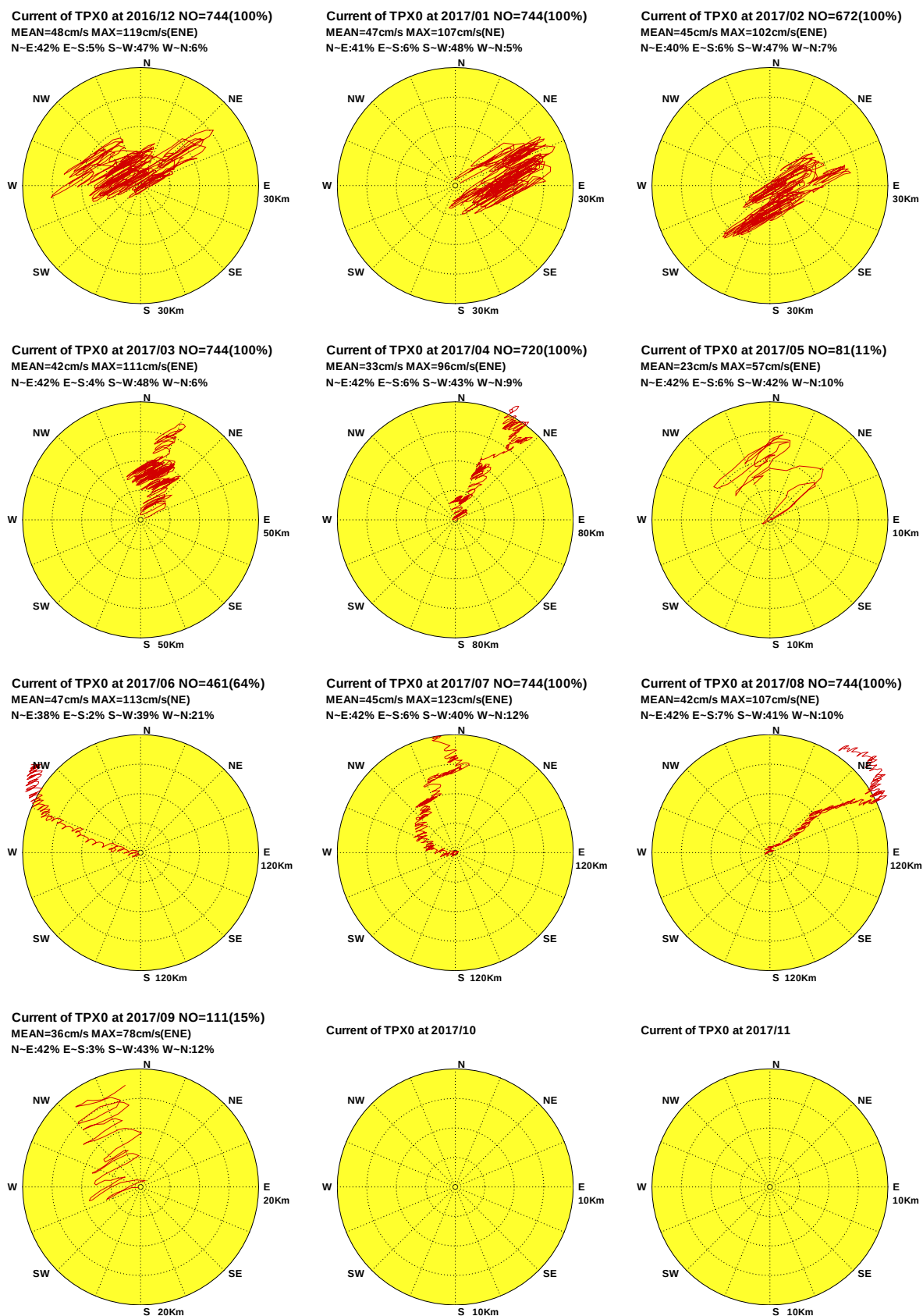


圖4.3b 2017年北苗海域每月測站 X 觀測海流向量行進圖

C16CTPX0.1H0 C171TPX0.1H0 C172TPX0.1H0 C173TPX0.1H0 C174TPX0.1H0 C175TPX0.1H0
C176TPX0.1H0 C177TPX0.1H0 C178TPX0.1H0 C179TPX0.1H0 C17ATPX0.1H0 C17BTPX0.1H0

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Distribution of Current Vectors

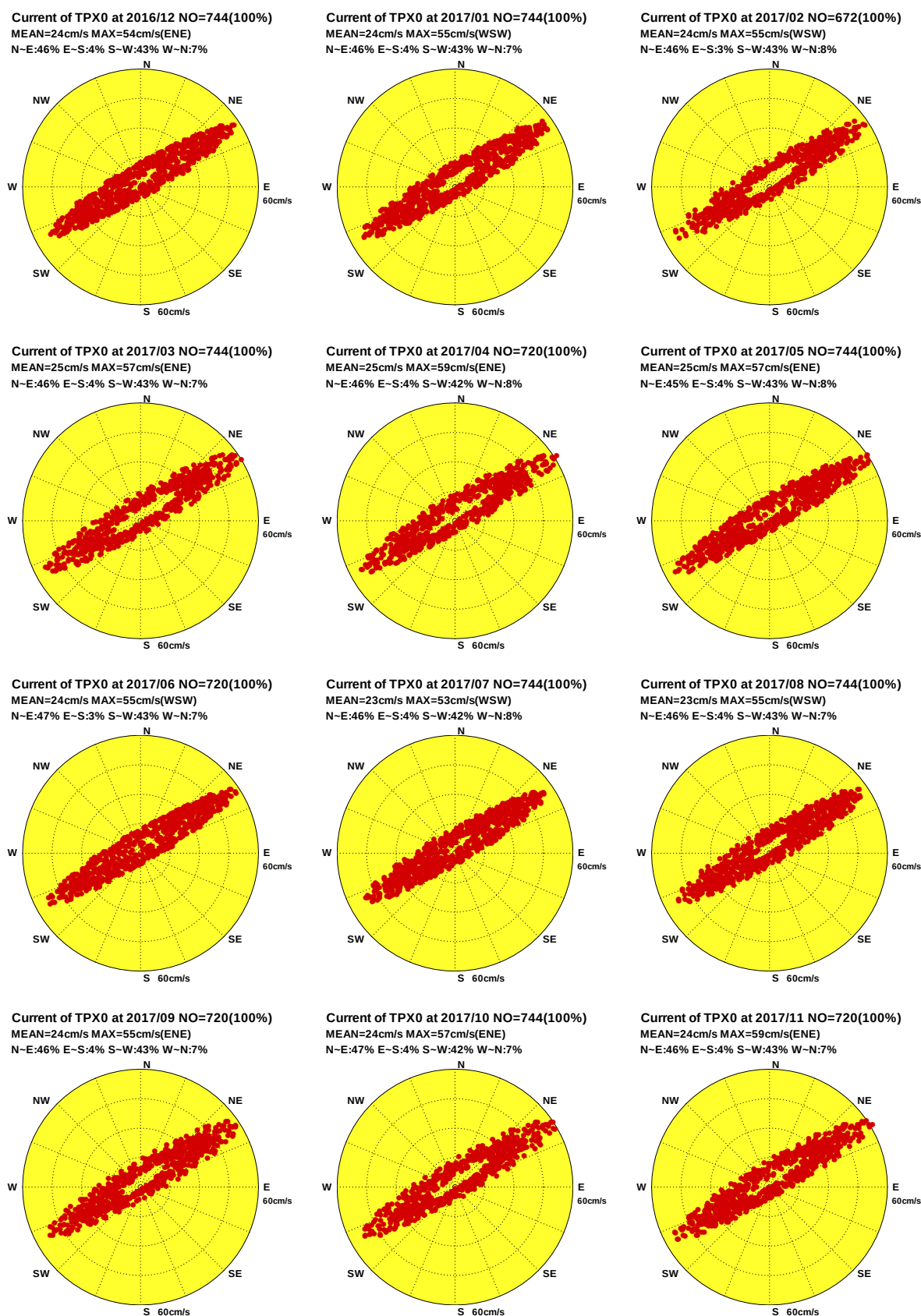


圖4.3c 2017年北苗海域每月測站 X 計算潮流向量分佈圖

C16CTPX0.1HD C171TPX0.1HD C172TPX0.1HD C173TPX0.1HD C174TPX0.1HD C175TPX0.1HD
C176TPX0.1HD C177TPX0.1HD C178TPX0.1HD C179TPX0.1HD C17ATPX0.1HD C17BTPX0.1HD

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Progressive Vector Diagram of Current

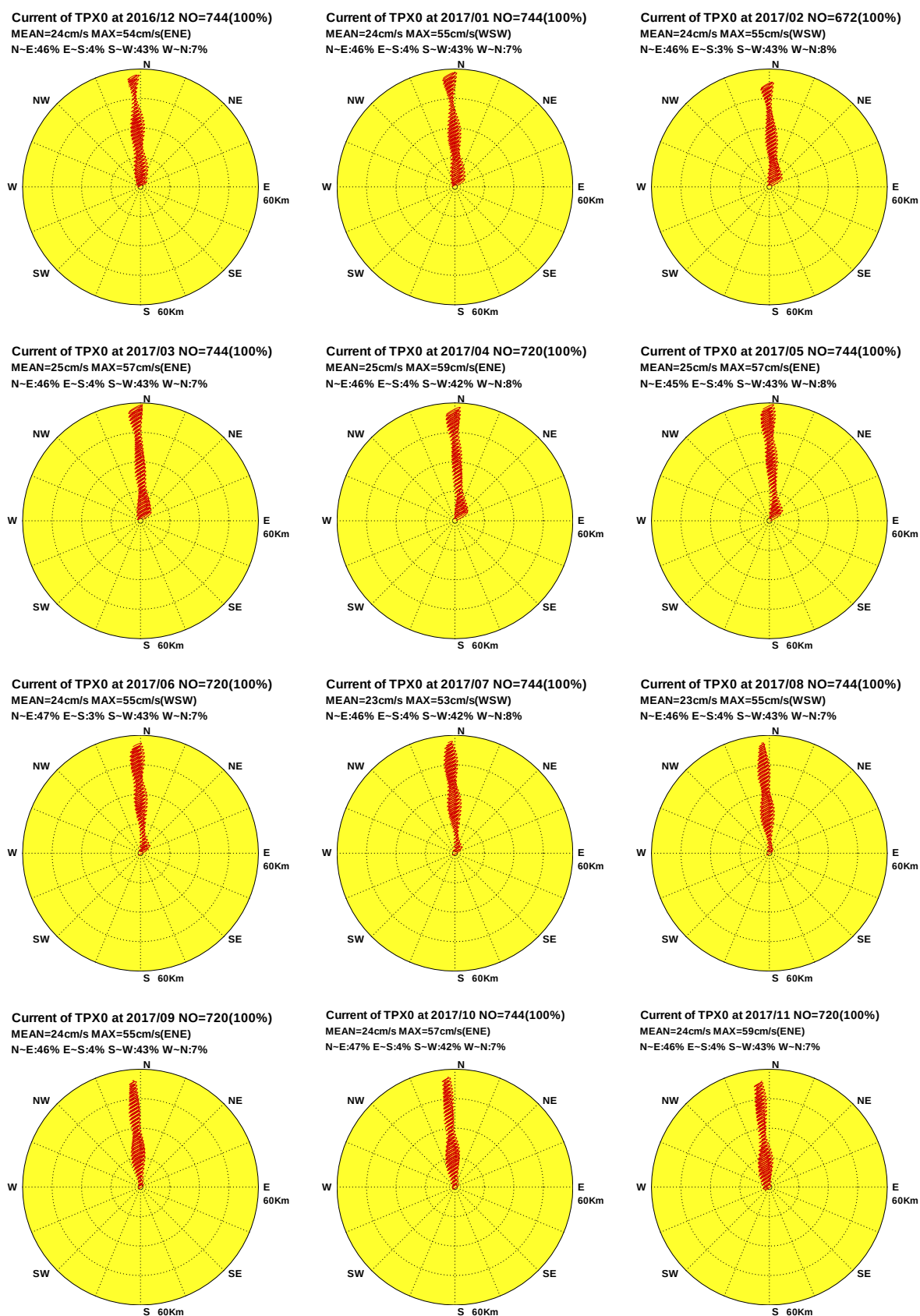


圖4.3d 2017年北苗海域每月測站 X 計算潮流向量行進圖

C16CTPX0.1HD C171TPX0.1HD C172TPX0.1HD C173TPX0.1HD C174TPX0.1HD C175TPX0.1HD
 C176TPX0.1HD C177TPX0.1HD C178TPX0.1HD C179TPX0.1HD C17ATPX0.1HD C17BTPX0.1HD

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Distribution of Current Vectors

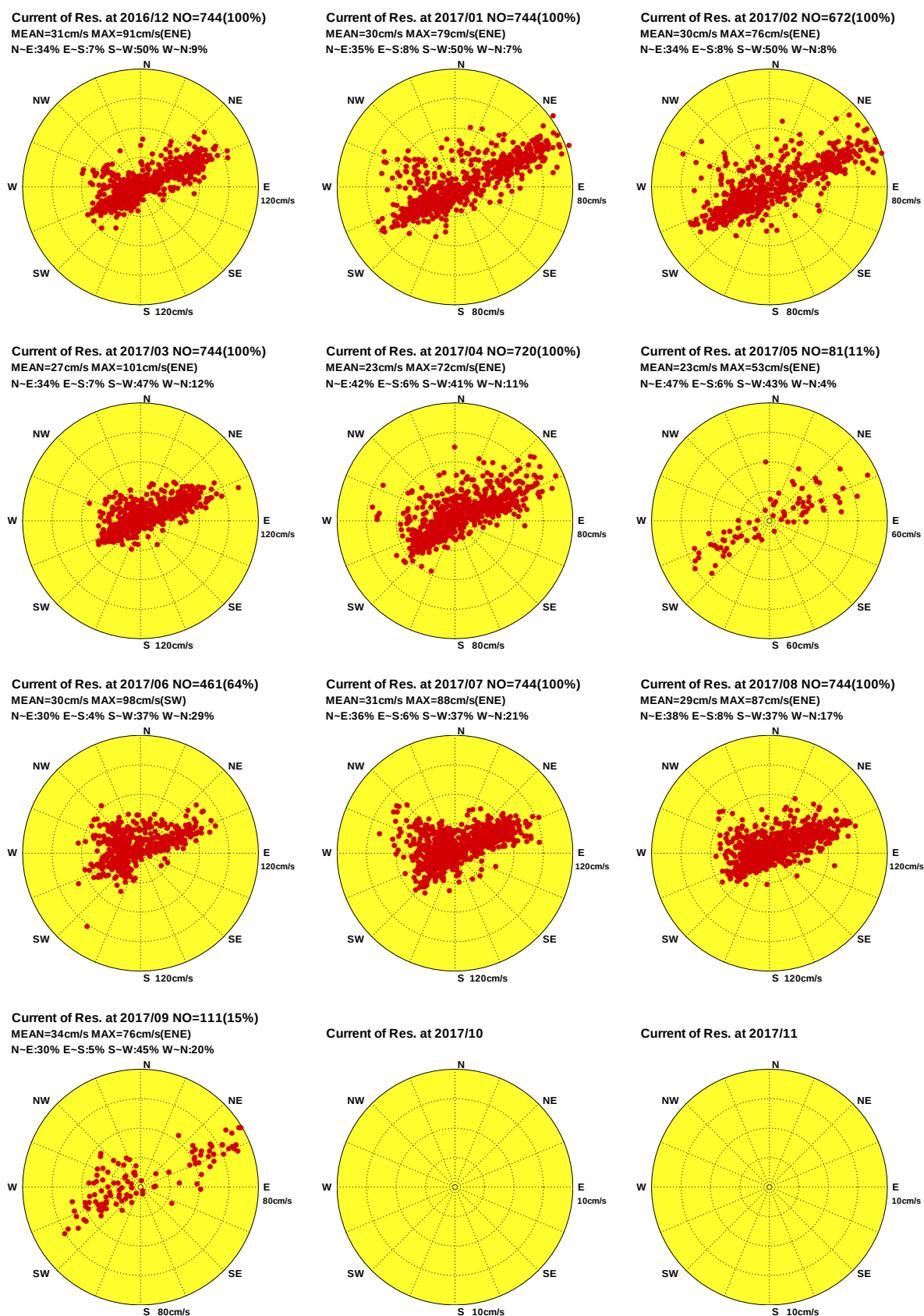


圖4.3e 2017年北苗海域每月測站 X 計算殘流向量分佈圖

C16CTPX0.1HR C171TPX0.1HR C172TPX0.1HR C173TPX0.1HR C174TPX0.1HR C175TPX0.1HR
C176TPX0.1HR C177TPX0.1HR C178TPX0.1HR C179TPX0.1HR C17ATPX0.1HR C17BTPX0.1HR

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Progressive Vector Diagram of Current

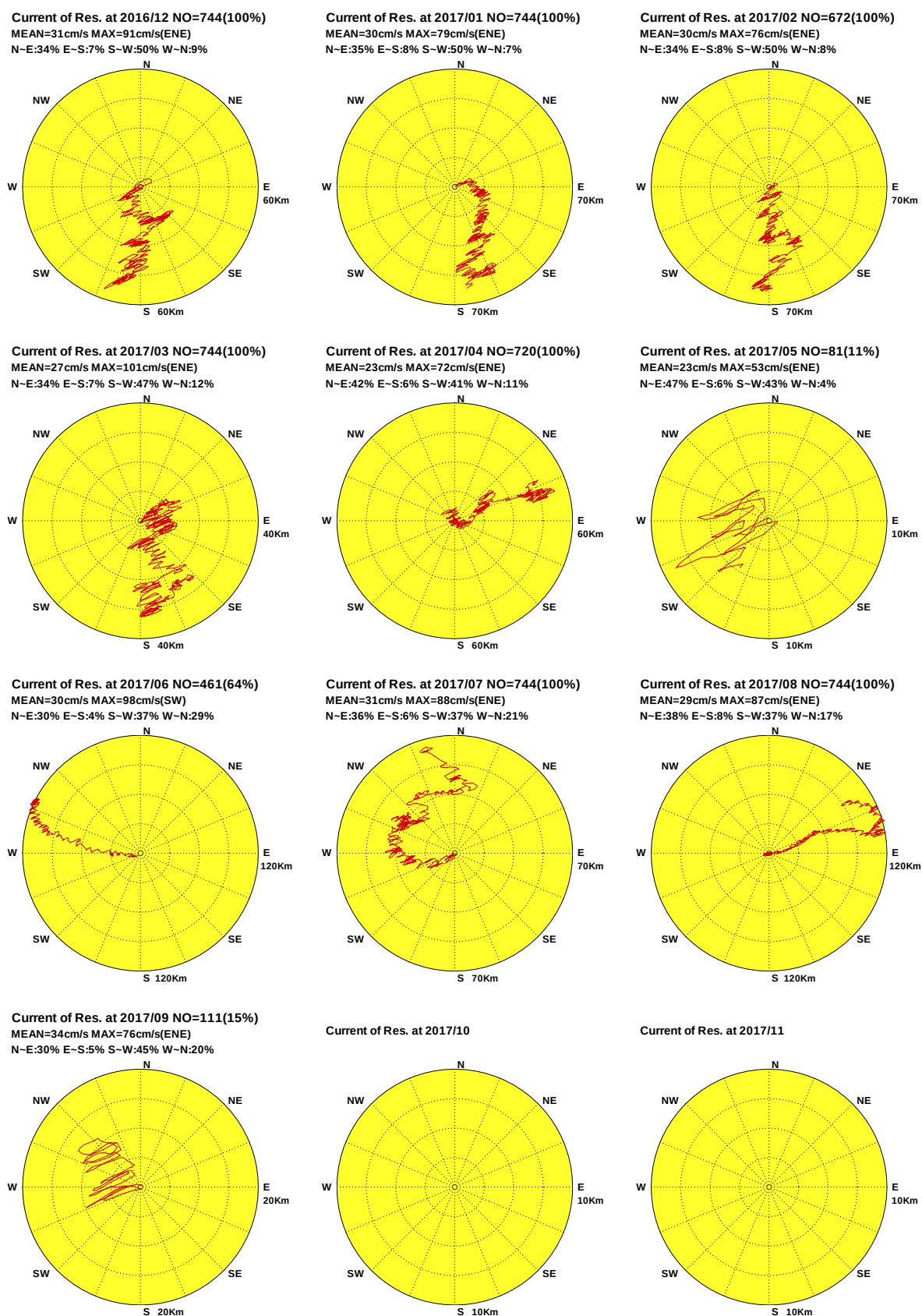


圖4.3f 2017年北苗海域每月測站 X 計算殘流向量行進圖

C16CTPX0.1HR C171TPX0.1HR C172TPX0.1HR C173TPX0.1HR C174TPX0.1HR C175TPX0.1HR
C176TPX0.1HR C177TPX0.1HR C178TPX0.1HR C179TPX0.1HR C17ATPX0.1HR C17BTPX0.1HR

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