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2017 年港灣環境資訊網
海氣象觀測資料年報
(中雲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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著者：蘇青和、李俊穎、傅怡釧、陳鈞彥
陳明宗、劉清松、林珂如、謝佳紘

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<tr><td colspan="4">摘要：
本港灣環境資訊網觀測海氣象資料年報，包括中雲海域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。</td></tr>
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ABSTRACT:

This Annual report 2017 of Harbor Environment Information Website(HEIV) covers the observation data of winds, waves, tides and currents near Chung-Yun offshoe region in Taiwan. The contents in this Annual report include the records of observation and the time series of data.

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2017年港灣環境資訊網海氣象觀測資料年報
(中雲海域風浪潮流觀測資料)

目　錄

誌　　謝

2017 年港灣環境資訊網觀測風力資料，蒐集之中雲海域風力資料，除本中心自行觀測之外，在梧棲氣象站(**測站 E**) 觀測風力資料，係交通部**中央氣象局(CWB)**提供。麥寮氣象站**(測站 H、測站 I)**觀測風力資料，係經濟部**水利署(WRA)**提供。彰濱外海浮標站(**測站 Y)**風力資料，係**海科中心**(TORI)所設置；彰濱外海一浮標站(**測站 Z**)及彰濱外海二浮標站(**測站 R**)之風速儀屬中興工程所設置，謹致謝忱。

2017 年港灣環境資訊網觀測波浪資料，蒐集之中雲海域波浪資料，除本中心自行觀測之外，在彰濱外海浮標站(**測站 Y)**波浪儀，係**海科中心**(TORI)所設置；彰濱外海一浮標站(**測站 Z**)、彰濱外海二浮標站(**測站 R**)及彰濱 B 區(**測站 U**)之波浪儀屬中興工程所設置，謹致謝忱。

2017 年港灣海氣象觀測潮汐資料，蒐集之中雲海域潮汐觀測資料，除本中心自行觀測之外，在麥寮(**測站 J**)、芳苑(**測站 K**)等觀測潮汐資料，係經濟部**水利署**提供，謹致謝忱。

2017 年港灣環境資訊網觀測海流資料，蒐集之中雲海域海流資料，除本中心自行觀測之外，在彰濱外海浮標站(**測站 Y)** 海流儀，係**海科中心**(TORI)所設置，彰濱外海一浮標站(**測站 Z**) 、彰濱外海二浮標站(**測站 R**) 及彰濱 B 區(**測站 U**)之海流儀屬中興工程所設置，謹致謝忱。

第 O 章　中雲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。

中雲海域觀測風力資料測站統計表如表 WG1，觀測波浪資料測站統計表如表 VG1，觀測潮汐資料測站統計表如表 TG1，觀測海流資料測站統計表如表 CG1。

表 WG1　中雲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
中雲海域	8	2	1	2	3	

表 VG1　中雲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
中雲海域	5	1	0	0	4	

表 TG1　中雲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
中雲海域	5	2	1	2	0	

表 CG1　中雲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
中雲海域	5	2	0	0	3	

註:資料更新時間為 2017 年。

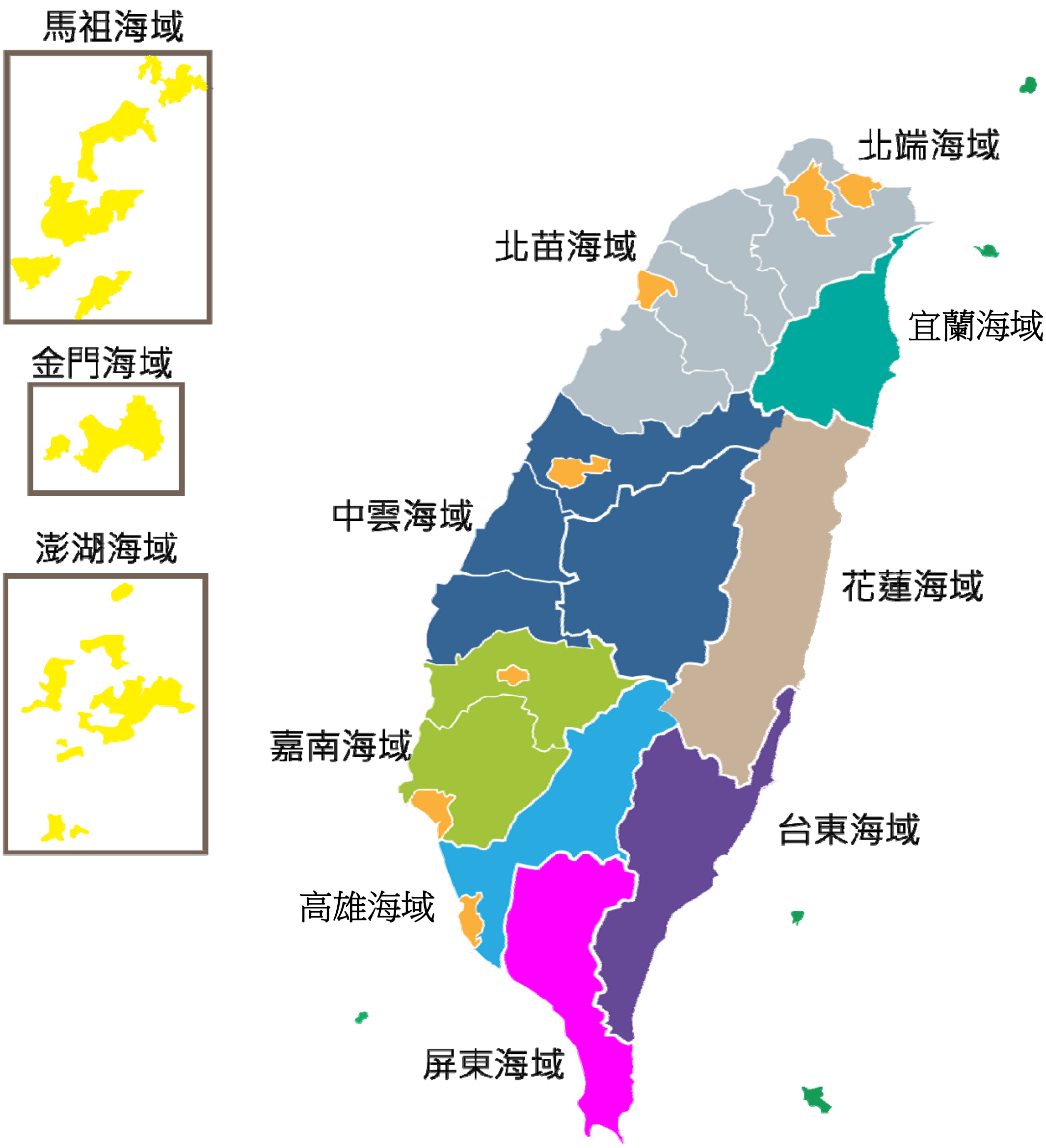

圖 A1 臺灣 12 海域區分示意圖

2017 年中雲海域觀測風力資料

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

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

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

表 WG1 中雲海域觀測風力資料蒐集概況表(統計時間至 2017 年 11 月)

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

中雲海域

圖 WG1　中雲海域風力觀測站位置示意圖

2017 年中雲海域觀測波浪資料

中雲海域(臺中~雲林)波浪之觀測本中心**(IHMT)**係於 1999 年 10 月安置挪威 NORTEK 公司表面波浪監測系統於台中港**測站 X0** 處，位置如附圖 VG1，2000 年因臺中港務局北防波堤延長工程開始展開整平拋石工作影響到儀器安全，於 8 月 18 日暫時停止量測並將設備收回。2003 年 5 月臺中港務局北防波堤延長工程完成後本所隨即在 2003 年 7 月 5 日就安裝完成(挪威 NORTEK 公司)潮波流監測系統，安裝在臺中港北防波堤堤頭 150 公尺外、水深 25 公尺處(稱**測站 X1**)。

測站 Y(彰濱外海浮標站)之波浪儀屬海科中心**(TORI)**所設置;**測站 Z**(彰濱外海一浮標站)、**測站 R**(彰濱外海二浮標站)及**測站 U**(彰濱 B 區)之波浪儀屬中興工程所設置。臺中海域各測站歷年觀測波浪資料蒐集概況如表 VG1。

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 VG1 中雲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	24°17'54"N	120°29'39"E	1999/10-2000/08	港研中心	北堤外海(延伸前)
X1	24°18'02"N	120°29'05"E	2003/07-2017/11(觀測中)	港研中心	北堤外海
Y	24°01'12"N	120°13'59"E	2012/07-2013/08	海科中心	彰濱外海浮標站
Z	24°06'24"	119°41'33"	2016/09-2017/11(觀測中)	中興工程	彰化外海一浮標
R	24°06'56"	119°51'08"	2016/09-2017/11(觀測中)	中興工程	彰化外海二浮標
U	24°03'23"	128°08'01"	2016/12-2017/11(觀測中)	中興工程	彰化外海 B 區

圖 VG1　中雲海域波浪觀測站位置示意圖

2017 年中雲海域觀測潮汐資料

中雲海域潮汐之觀測係於 1981 年 2 月本中心於台中港 4 號碼頭安置潮位站 (**測站 T**) ，位置如附圖 TG1，1999 年因 921 集集大地震整修 4 號碼頭，將潮位站拆除，2001 年 3 月碼頭整修完成後重新安裝 Water Log 潮位計。另本中心於 2003 年 7 月，在臺中港北防波堤堤頭 150 公尺外、水深 25 公尺處(**測站 X**) 安置 AWCP 監測系統，也具量測水位功能。

潮汐鹿港觀測站(**測站 P**)是由中央氣象局設置。麥寮(**測站 J**)及芳苑(**測站 K**)之潮汐儀則屬水利署所有。中雲海域各測站歷年觀測潮汐資料蒐集概況如表 TG1。

潮位**測站 X** 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前 10 分鐘之水位變化，取樣頻率為 2Hz，然後加以平均得出該小時之平均水位值。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，與一般固定式潮位計不同。**測站 T** 潮位資料取樣方式為每 6 分鐘量測一次水位變化。

表 TG1 中雲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	24°17'16"N	120°31'57"E	1989/12-2017/11(觀測中)	港研中心	台中港 4 號碼頭
X0	24°18'04"N	120°28'59"E	1999/10-2000/08	港研中心	北堤外海(延伸前)
X1	24°18'02"N	120°29'05"E	2003/07-2017/11(觀測中)	港研中心	AWCP 北堤外海
J	23°47'09"N	120°09'38"E	2009/01-2017/11(觀測中)	水利署	麥寮潮位站
K	23°54'53"N	120°17'50"E	2009/01-2012/02	水利署	芳苑潮位站
P	24°5'6"N	120°25'13"E	2017/03-2017/11(觀測中)	中央氣象局	鹿港潮位站

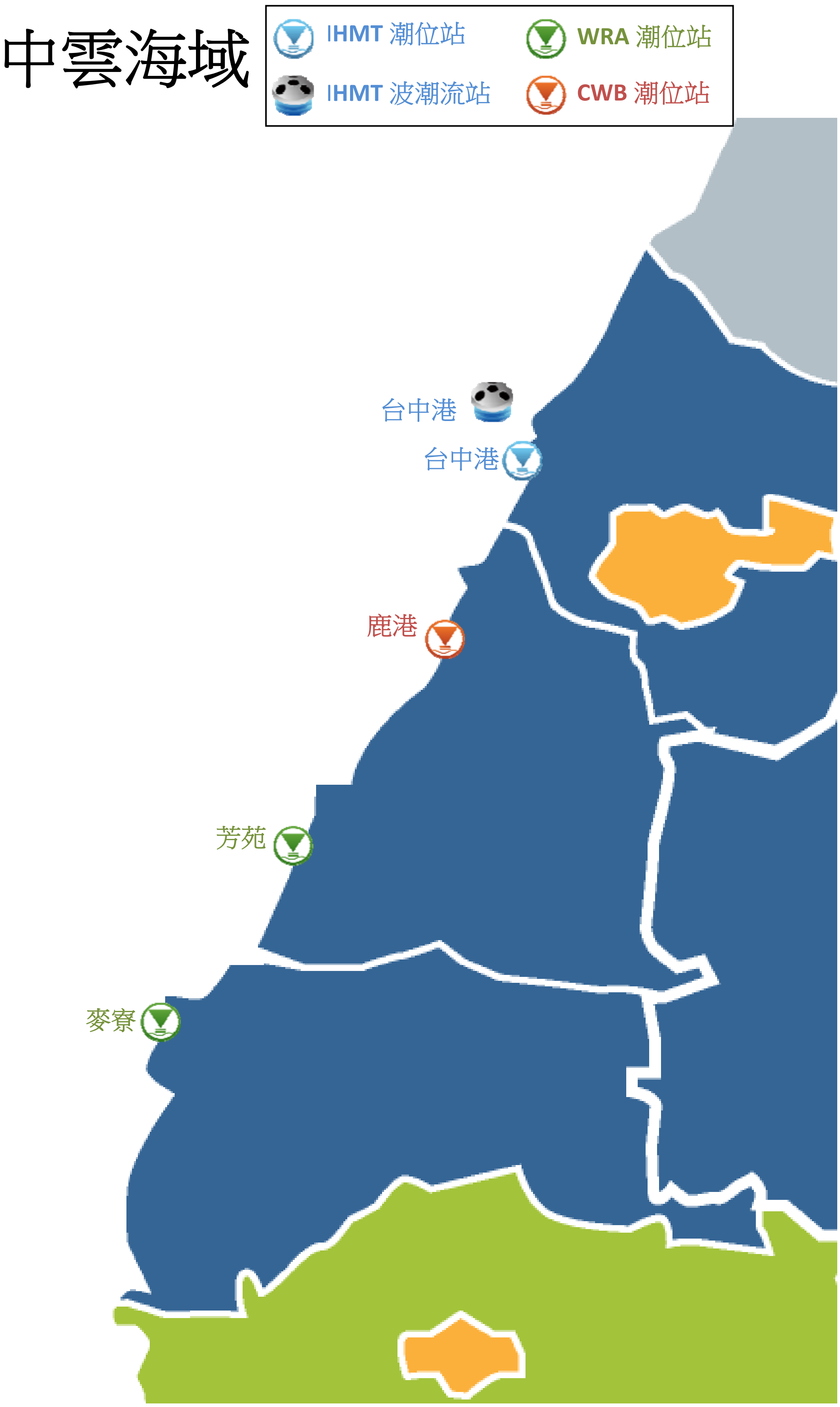

圖 TG1 中雲海域潮汐觀測站位置示意圖

2017 年中雲海域觀測海流資料

中雲海域(臺中~雲林)海流之觀測本中心**(IHMT)**係於 1999 年 10 月安置挪威 NORTEK 公司表面波浪監測系統於台中港**測站 X0** 處，位置如附圖 CG1，2000 年因臺中港務局北防波堤延長工程開始展開整平拋石工作影響到儀器安全，於 8 月 18 日暫時停止量測並將設備收回。2003 年 5 月臺中港務局北防波堤延長工程完成後本所隨即在 2003 年 7 月 5 日就安裝完成(NORTEK)波高波向與剖面海流即時傳送監測系統，安裝在臺中港北防波堤堤頭 150 公尺、水深 25 公尺處(稱**測站 X1**)。

測站 Y(彰濱外海浮標站)之海流儀屬海科中心**(TORI)**所設置;**測站 Z**(彰濱外海一浮標站)、**測站 R**(彰濱外海二浮標站)及**測站 U**(彰濱 B 區)之海流儀屬中興工程所設置。臺中海域各測站歷年觀測海流資料蒐集概況如表 CG1。

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，臺中港觀測站水深間距設定為 1 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 CG1 中雲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	24°17'54"N	120°29'39"E	1999/10-2000/08	港研中心	北堤外海(延伸前)
X1	24°18'02"N	120°29'05"E	2003/07-2017/11(觀測中)	港研中心	北堤外海
Y	24°01'12"N	120°13'59"E	2012/07-2016/12	海科中心	彰濱外海浮標站
Z	24°06'24"	119°41'33"	2016/09-2017/11(觀測中)	中興工程	彰化外海一浮標
R	24°06'56"	119°51'08"	2016/09-2017/11(觀測中)	中興工程	彰化外海二浮標
U	24°03'23"	128°08'01"	2016/12-2017/11(觀測中)	中興工程	彰化外海 B 區

圖 CG1　中雲海域海流觀測站位置示意圖

第一章　2017 年中雲海域觀測風力資料

中雲海域風之觀測包括**測站 W、測站 Y、測站 B、測站 E、測站 H、測站 I、測站 Z 及測站 R 等** 8 個測站(測站位置如第 O 章圖 WG1)。本年報取經檢核及補遺之 **W 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年每月中雲海域修補前各測站觀測風力資料紀錄表

海域 年月/測站	中雲海域 W	中雲海域 Y	中雲海域 B	中雲海域 E	中雲海域 H	中雲海域 I	中雲海域 R	中雲海域 Z	中雲海域	中雲海域	中雲海域	中雲海域
2016/12 月	744(100%)	493(66.3%)	742(99.7%)	744(100%)	*	744(100%)	249(33.5%)	731(98.3%)	*	*	*	*
2017/ 1 月	743(99.9%)	*	744(100%)	744(100%)	*	744(100%)	61(8.2%)	736(98.9%)	*	*	*	*
2017/ 2 月	672(100%)	*	672(100%)	672(100%)	*	671(99.9%)	565(84.1%)	669(99.6%)	*	*	*	*
2017/ 3 月	744(100%)	*	744(100%)	744(100%)	*	743(99.9%)	736(98.9%)	740(99.5%)	*	*	*	*
2017/ 4 月	720(100%)	*	720(100%)	720(100%)	*	719(99.9%)	714(99.2%)	715(99.3%)	*	*	*	*
2017/ 5 月	743(99.9%)	*	737(99.1%)	744(100%)	*	744(100%)	723(97.2%)	743(99.9%)	*	*	*	*
2017/ 6 月	719(99.9%)	*	720(100%)	720(100%)	*	720(100%)	677(94.0%)	714(99.2%)	*	*	*	*
2017/ 7 月	744(100%)	*	744(100%)	744(100%)	*	726(97.6%)	724(97.3%)	738(99.2%)	*	*	*	*
2017/ 8 月	744(100%)	*	744(100%)	744(100%)	*	736(98.9%)	699(94.0%)	737(99.1%)	*	*	*	*
2017/ 9 月	720(100%)	*	720(100%)	720(100%)	*	702(97.5%)	231(32.1%)	229(31.8%)	*	*	*	*
2017/10 月	744(100%)	*	744(100%)	*	*	735(98.8%)	*	*	*	*	*	*
2017/11 月	720(100%)	*	720(100%)	*	*	714(99.2%)	*	*	*	*	*	*
2017/冬季	2159(99.9%)	493(22.8%)	2158(99.9%)	2160(100%)	*	2159(99.9%)	875(40.5%)	*	*	*	*	*
2017/春季	2207(99.9%)	*	2201(99.7%)	2208(100%)	*	2206(99.9%)	2173(98.4%)	*	*	*	*	*
2017/夏季	2207(99.9%)	*	2208(100%)	2208(100%)	*	2182(98.8%)	2100(95.1%)	*	*	*	*	*
2017/秋季	2184(100%)	*	2184(100%)	720(33.0%)	*	2151(98.5%)	231(10.6%)	*	*	*	*	*
2017/整年	8757(99.9%)	493(5.6%)	8751(99.9%)	7296(83.3%)	*	8698(99.3%)	5379(61.4%)	*	*	*	*	*
起始年月	2016/12	2016/12	2016/12	2016/12	*	2016/12	2016/12	*	*	*	*	*
結束年月	2017/11	2016/12	2017/11	2017/09	*	2017/11	2017/09	*	*	*	*	*

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表1.1b 2017年每月中雲海域修補後各測站風力資料紀錄表

海域 年月/測站	中雲海域 W	中雲海域 Y	中雲海域	中雲海域	中雲海域	中雲海域	中雲海域	中雲海域	中雲海域	中雲海域	中雲海域	中雲海域
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	*	*	*	*	*	*	*	*	*	*

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表1.2a　2017年中雲海域主要測站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	744(100%)	12.8	12.4/NNE	28.9/NNE	9.5	16.3	29.3	44.9	88.2	2.7	4.6	4.6	NNE/66.0%
2	2017/01	743(100%)	12.5	12.3/NNE	25.4/NNE	6.2	17.8	28.8	47.2	93.8	.7	1.7	3.8	NNE/72.7%
3	2017/02	672(100%)	12.9	12.7/NNE	25.5/NNE	9.7	15.2	23.5	51.6	93.3	2.1	.3	4.3	NNE/63.5%
4	2017/03	744(100%)	9.8	9.0/NNE	23.9/NNE	13.0	27.6	34.8	24.6	84.7	3.1	5.9	6.3	NNE/46.4%
5	2017/04	720(100%)	7.4	3.0/NNE	22.5/NNE	28.5	32.1	22.4	17.1	50.6	7.6	33.5	8.3	NE /22.8%
6	2017/05	743(100%)	6.0	3.7/NNE	17.3/NNE	31.4	39.4	22.7	6.5	59.6	4.2	24.0	12.2	NNE/30.0%
7	2017/06	719(100%)	6.3	4.9/SSW	16.9/SW	24.8	42.1	29.9	3.2	10.6	15.3	64.5	9.6	SSW/31.2%
8	2017/07	744(100%)	4.1	.9/SW	21.4/SW	45.8	44.5	6.7	3.0	19.2	20.4	35.1	25.3	S /11.6%
9	2017/08	744(100%)	6.0	2.9/SW	20.0/NNE	28.6	40.7	28.6	2.0	18.3	7.3	59.9	14.5	SSW/28.4%
10	2017/09	720(100%)	4.8	2.2/NNE	19.6/NNE	41.5	41.4	13.2	3.9	45.1	5.3	29.0	20.6	NNE/21.8%
11	2017/10	744(100%)	13.2	12.7/NNE	28.4/NNE	15.2	10.2	19.0	55.6	86.7	3.0	5.0	5.4	NNE/57.9%
12	2017/11	720(100%)	13.0	12.6/NNE	27.6/NNE	8.8	12.6	31.7	46.9	91.3	1.4	3.3	4.0	NNE/77.4%
13	2017/冬	2159(100%)	12.7	12.4/NNE	28.9/NNE	8.4	16.4	27.3	47.8	91.7	1.8	2.3	4.2	NNE/67.5%
14	2017/春	2207(100%)	7.7	5.2/NNE	23.9/NNE	24.2	33.0	26.7	16.0	65.1	4.9	21.0	9.0	NNE/31.9%
15	2017/夏	2207(100%)	5.4	2.8/SSW	21.4/SW	33.2	42.5	21.7	2.7	16.1	14.3	53.1	16.5	SSW/22.9%
16	2017/秋	2184(100%)	10.4	9.2/NNE	28.4/NNE	21.7	21.3	21.2	35.7	74.5	3.2	12.4	9.9	NNE/52.4%
17	2017/年	8757(100%)	9.0	6.0/NNE	28.9/NNE	22.0	28.4	24.2	25.4	61.7	6.1	22.3	9.9	NNE/39.4%

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表1.2b　2017年中雲海域主要測站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%)	12.8	12.4/NNE	28.9/NNE	9.7	16.1	29.3	44.9	88.2	2.7	4.6	4.6	NNE/66.0%
2	2017/01	744(100%)	12.5	12.3/NNE	25.4/NNE	6.2	17.9	28.9	47.0	93.5	.7	2.0	3.8	NNE/72.4%
3	2017/02	672(100%)	12.9	12.7/NNE	25.5/NNE	9.7	15.2	23.5	51.6	93.3	1.9	.6	4.2	NNE/63.7%
4	2017/03	744(100%)	9.8	9.0/NNE	23.9/NNE	13.0	27.6	34.8	24.6	84.7	3.0	6.2	6.2	NNE/46.4%
5	2017/04	720(100%)	7.4	3.0/NNE	22.5/NNE	28.5	32.1	22.4	17.1	50.4	7.1	34.3	8.2	NE /22.8%
6	2017/05	744(100%)	6.0	3.6/NNE	17.3/NNE	31.3	39.5	22.7	6.5	59.3	4.0	24.7	12.0	NNE/29.8%
7	2017/06	720(100%)	6.3	4.9/SSW	16.9/SW	24.7	42.2	29.9	3.2	10.6	15.1	65.4	8.9	SSW/31.3%
8	2017/07	744(100%)	4.1	.9/SW	21.4/SW	46.0	44.4	6.7	3.0	19.0	20.4	35.3	25.3	S /11.8%
9	2017/08	744(100%)	6.0	2.9/SW	20.0/NNE	28.6	40.7	28.6	2.0	18.0	7.1	60.3	14.5	SSW/28.5%
10	2017/09	720(100%)	4.8	2.2/NNE	19.6/NNE	41.5	41.4	13.2	3.9	44.9	5.0	30.0	20.1	NNE/21.8%
11	2017/10	744(100%)	13.2	12.7/NNE	28.4/NNE	15.2	10.2	19.0	55.6	86.6	2.8	5.2	5.4	NNE/57.9%
12	2017/11	720(100%)	13.0	12.6/NNE	27.6/NNE	8.9	12.6	31.5	46.9	91.1	1.4	3.5	4.0	NNE/77.4%
13	2017/冬	2160(100%)	12.7	12.4/NNE	28.9/NNE	8.5	16.4	27.4	47.7	91.6	1.8	2.5	4.2	NNE/67.5%
14	2017/春	2208(100%)	7.7	5.2/NNE	23.9/NNE	24.2	33.1	26.7	16.0	64.9	4.7	21.6	8.8	NNE/31.8%
15	2017/夏	2208(100%)	5.4	2.8/SSW	21.4/SW	33.2	42.4	21.6	2.7	15.9	14.2	53.6	16.3	SSW/23.0%
16	2017/秋	2184(100%)	10.4	9.2/NNE	28.4/NNE	21.8	21.3	21.2	35.7	74.3	3.1	12.8	9.8	NNE/52.4%
17	2017/年	8760(100%)	9.0	6.0/NNE	28.9/NNE	22.0	28.4	24.2	25.4	61.5	6.0	22.8	9.8	NNE/39.3%

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表1.3a　2017年中雲海域主要測站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	493(66%)	10.4	10.0/NNE	18.7/NE	4.7	24.9	46.7	23.7	91.3	2.4	2.0	4.3	NNE/52.7%
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	493(23%)	10.4	10.0/NNE	18.7/NE	4.7	24.9	46.7	23.7	91.3	2.4	2.0	4.3	NNE/52.7%
14	2017/春													
15	2017/夏													
16	2017/秋													
17	2017/年	493(6%)	10.4	10.0/NNE	18.7/NE	4.7	24.9	46.7	23.7	91.3	2.4	2.0	4.3	NNE/52.7%

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表1.3b　2017年中雲海域主要測站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%)	10.5	10.2/NNE	19.4/NNE	6.0	21.9	46.1	25.9	91.7	1.6	1.6	5.1	NNE/61.7%
2	2017/01	744(100%)	10.1	10.0/NNE	17.6/NNE	5.6	19.8	59.8	14.8	95.4	.0	.8	3.8	NNE/84.1%
3	2017/02	672(100%)	10.4	10.3/NE	19.0/NE	9.5	17.9	43.3	29.3	100.0	.0	.0	.0	NE /57.3%
4	2017/03	744(100%)	7.0	6.6/NNE	15.0/NE	19.5	35.3	44.4	.8	88.0	2.4	4.2	5.4	NNE/44.5%
5	2017/04	720(100%)	5.3	3.1/NNE	16.1/NNE	40.6	33.1	24.7	1.7	58.2	7.8	27.5	6.5	NNE/37.2%
6	2017/05	744(100%)	4.3	2.8/NNE	12.2/NNE	43.5	41.5	14.9	.0	58.5	4.2	24.7	12.6	NNE/33.1%
7	2017/06	720(100%)	4.0	2.9/SSW	10.3/SW	41.7	52.9	5.4	.0	12.2	13.3	61.8	12.6	SSW/32.1%
8	2017/07	744(100%)	2.8	.5/SW	13.8/WSW	71.8	23.3	5.0	.0	21.9	19.1	31.5	27.6	NNW/14.7%
9	2017/08	744(100%)	4.2	2.2/SSW	13.8/NNE	38.2	53.6	8.2	.0	13.2	9.1	64.8	12.9	SSW/35.1%
10	2017/09	720(100%)	3.7	2.3/N	14.5/NNE	57.5	31.1	10.6	.8	42.5	2.4	23.3	31.8	NNE/27.8%
11	2017/10	744(100%)	10.2	9.9/NE	19.0/NNE	17.7	12.0	41.3	29.0	87.0	2.4	4.6	6.0	NE /58.2%
12	2017/11	720(100%)	10.3	10.2/NNE	18.8/NNE	8.3	14.2	58.3	19.2	93.3	.8	1.8	4.0	NNE/84.2%
13	2017/冬	2160(100%)	10.4	10.1/NNE	19.4/NNE	7.0	19.9	50.0	23.1	95.6	.6	.8	3.1	NNE/61.0%
14	2017/春	2208(100%)	5.6	4.2/NNE	16.1/NNE	34.5	36.7	28.0	.8	68.3	4.8	18.7	8.2	NNE/38.3%
15	2017/夏	2208(100%)	3.6	1.9/SSW	13.8/NNE	50.6	43.2	6.2	.0	15.8	13.9	52.6	17.8	SSW/25.5%
16	2017/秋	2184(100%)	8.1	7.4/NNE	19.0/NNE	27.7	19.0	36.8	16.5	74.4	1.9	9.8	13.9	NNE/45.5%
17	2017/年	8760(100%)	6.9	4.9/NNE	19.4/NNE	30.1	29.8	30.1	10.0	63.3	5.3	20.6	10.8	NNE/37.6%

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Wind Speed in Chung-Yun Seas of TCW0 at 2017

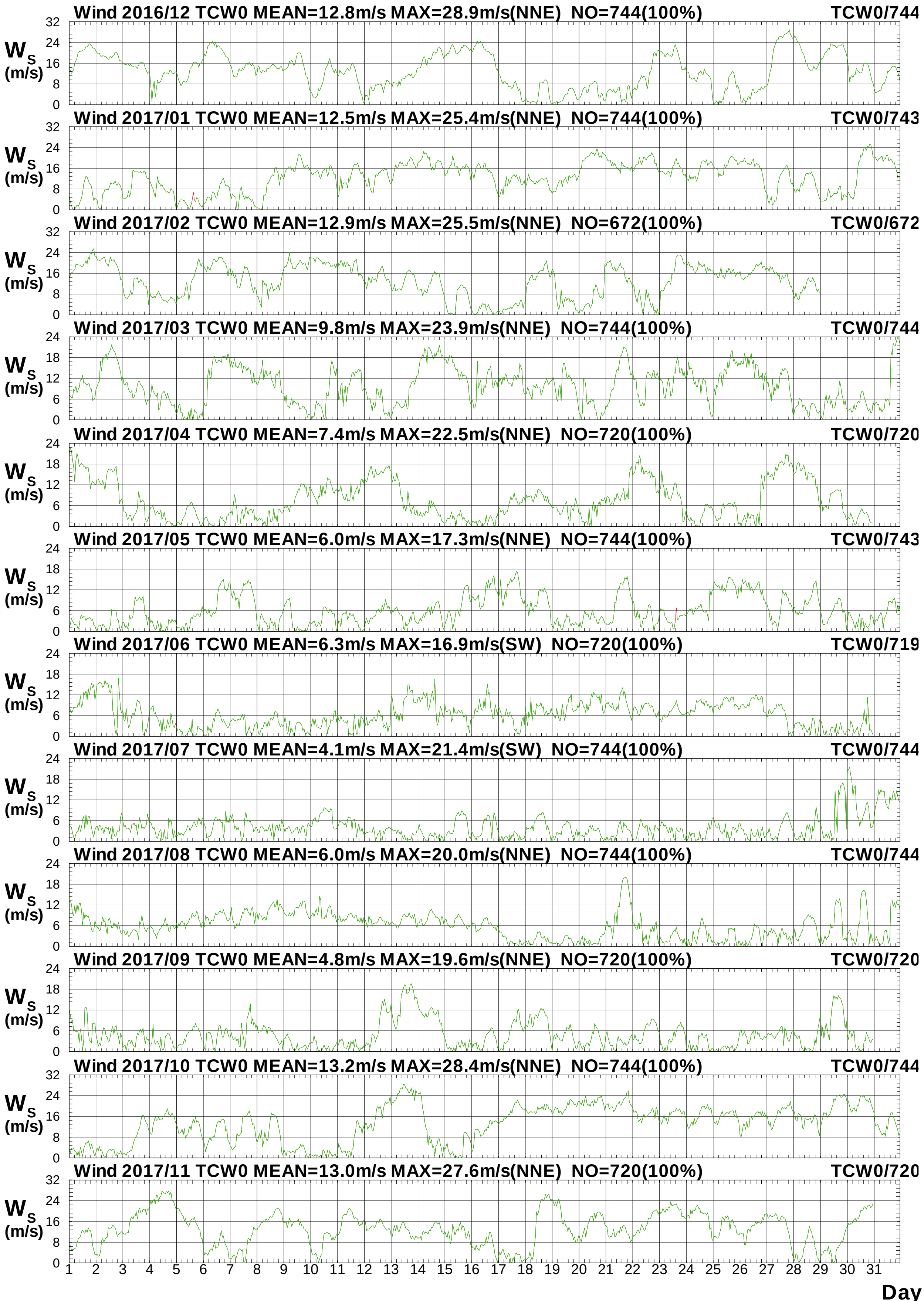

圖1.1a　2017年每月中雲海域 W 站修補前後之風速比較圖

W16CTCW0.1HA W16CTCW0.1H0 W171TCW0.1HA W171TCW0.1H0 W172TCW0.1HA W172TCW0.1H0
W173TCW0.1HA W173TCW0.1H0 W174TCW0.1HA W174TCW0.1H0 W175TCW0.1HA W175TCW0.1H0

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Wind Direction in Chung-Yun Seas of TCW0 at 2017

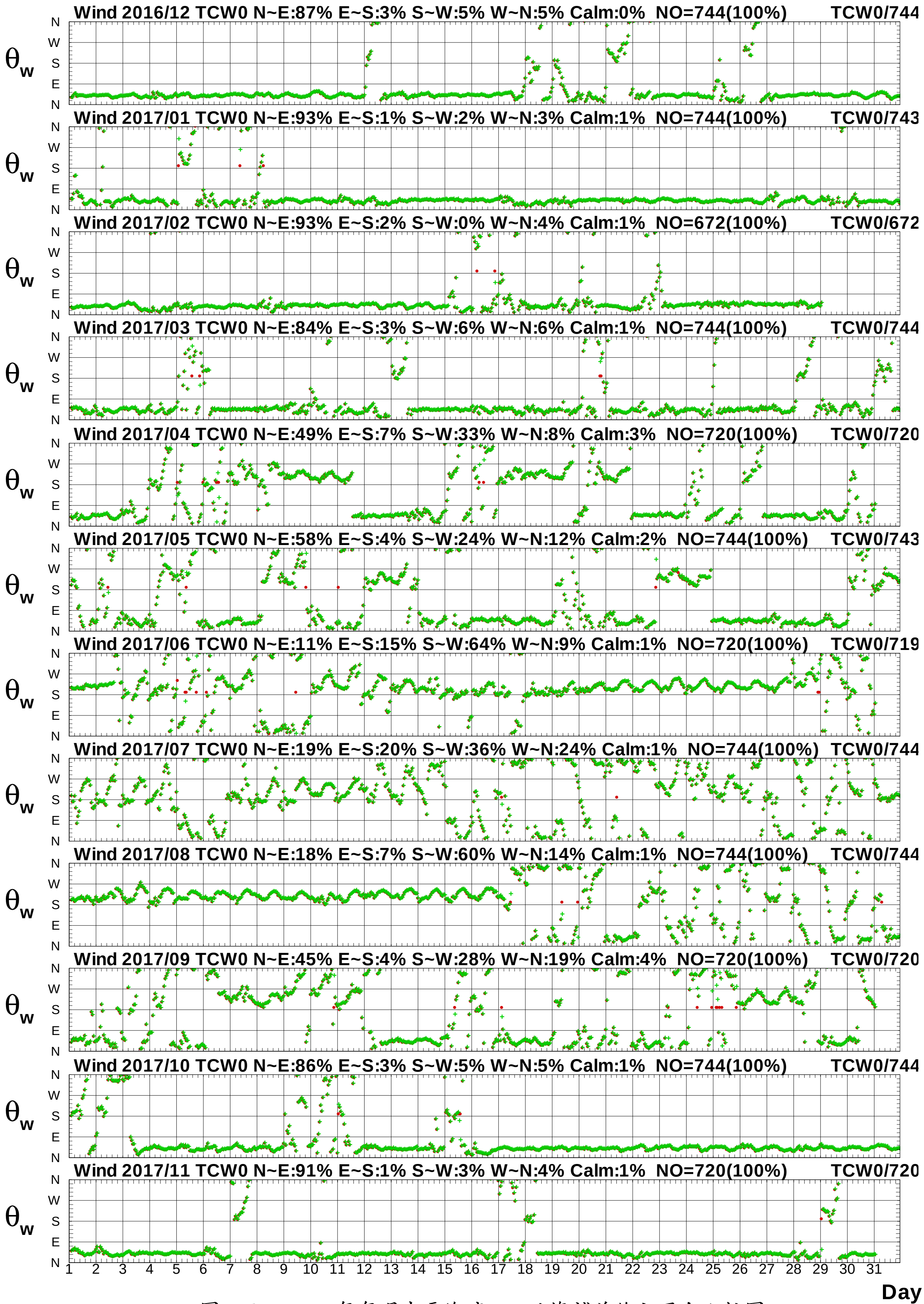

圖1.1b　2017年每月中雲海域 W 站修補前後之風向比較圖

W16CTCW0.1HA W16CTCW0.1H0 W171TCW0.1HA W171TCW0.1H0 W172TCW0.1HA W172TCW0.1H0
W173TCW0.1HA W173TCW0.1H0 W174TCW0.1HA W174TCW0.1H0 W175TCW0.1HA W175TCW0.1H0

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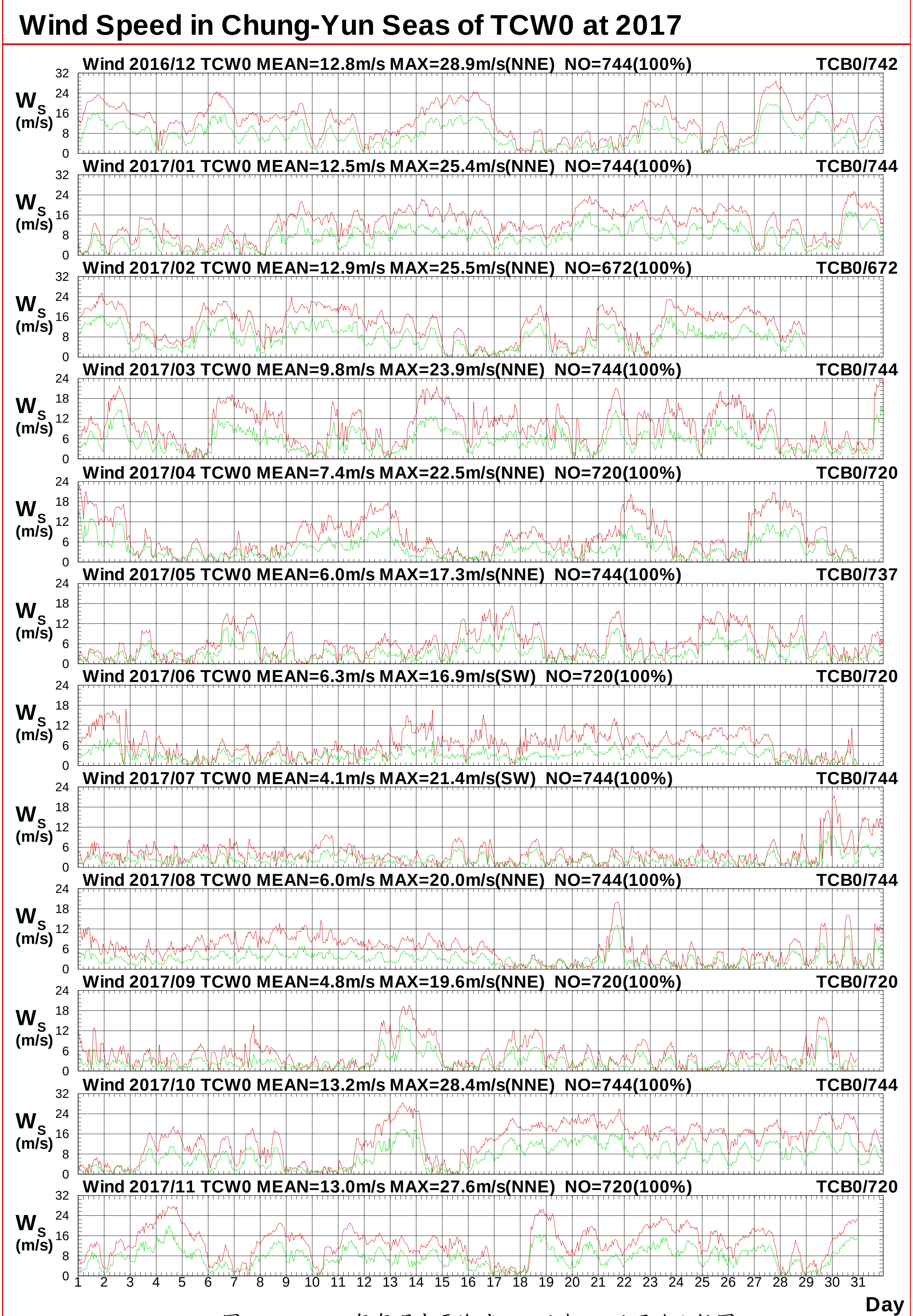

圖1.2a 2017年每月中雲海域 W 站與 B 站風速比較圖

W16CTCW0.1HA W16CTCB0.1H0 W171TCW0.1HA W171TCB0.1H0 W172TCW0.1HA W172TCB0.1H0
W173TCW0.1HA W173TCB0.1H0 W174TCW0.1HA W174TCB0.1H0 W175TCW0.1HA W175TCB0.1H0

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Wind Direction in Chung-Yun Seas of TCW0 at 2017

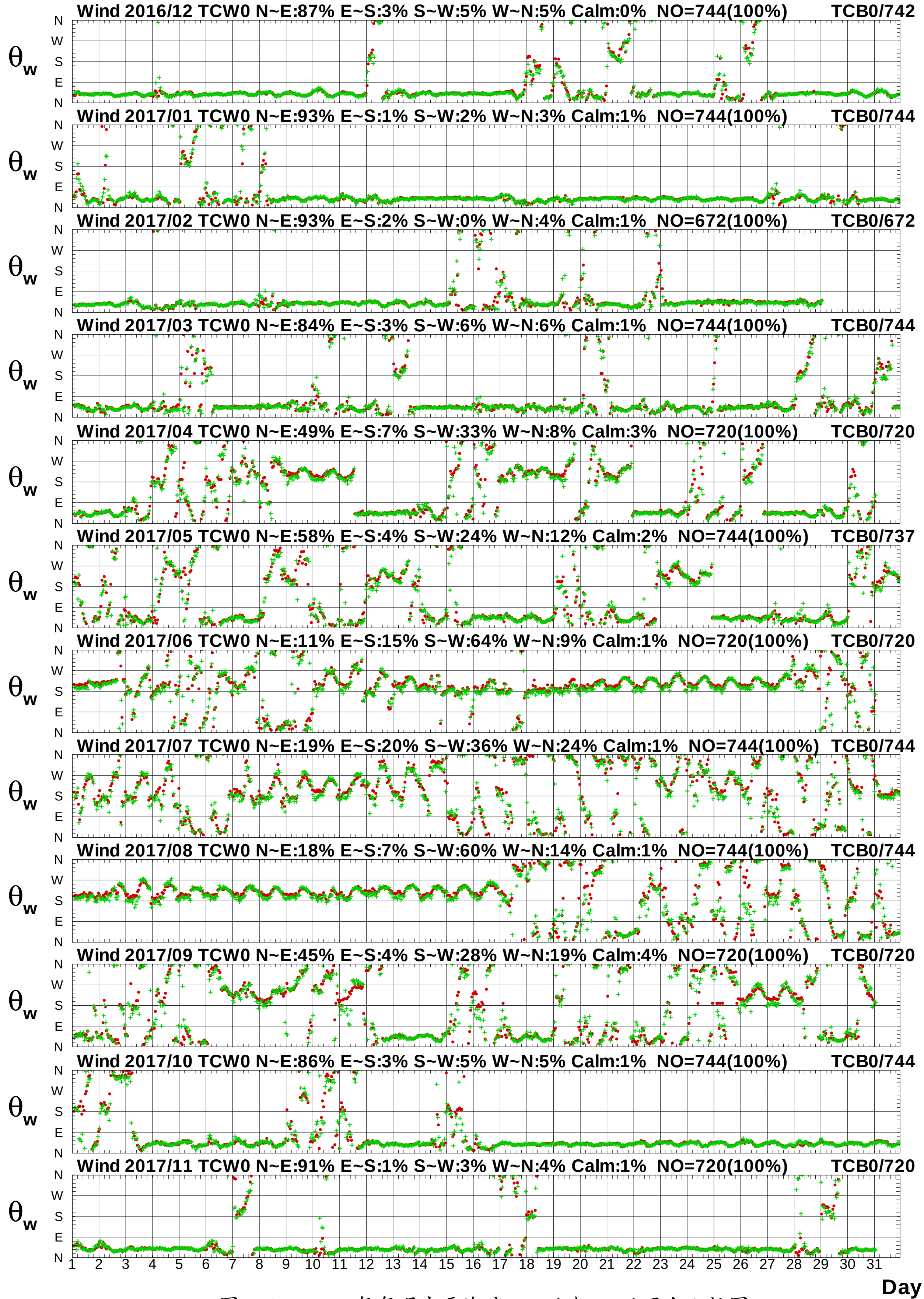

圖1.2b　2017年每月中雲海域 W 站與 B 站風向比較圖

W16CTCW0.1HA W16CTCB0.1H0 W171TCW0.1HA W171TCB0.1H0 W172TCW0.1HA W172TCB0.1H0
W173TCW0.1HA W173TCB0.1H0 W174TCW0.1HA W174TCB0.1H0 W175TCW0.1HA W175TCB0.1H0

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Wind Speed in Chung-Yun Seas of TCW0 at 2017

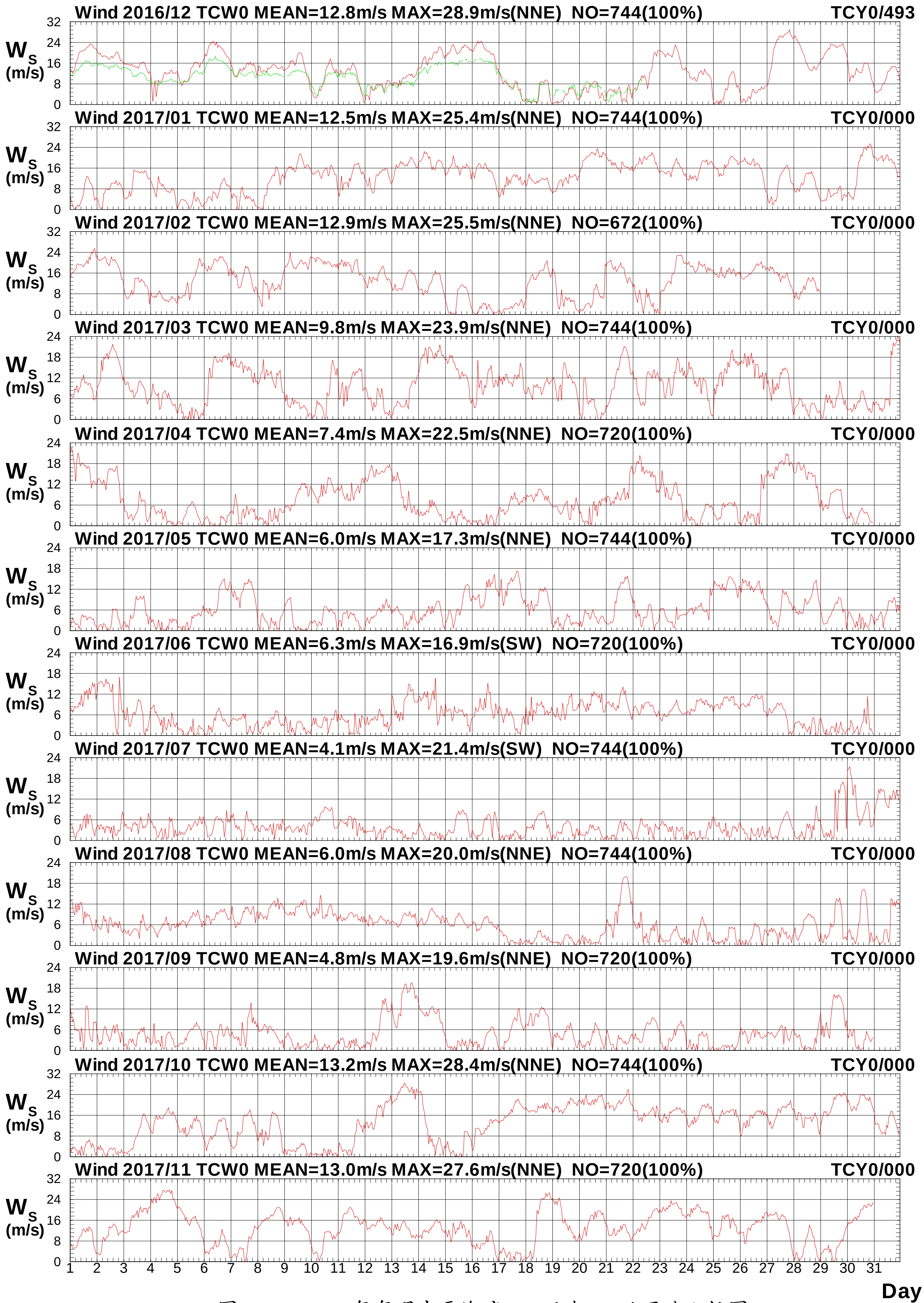

圖1.3a　2017年每月中雲海域 W 站與 Y 站風速比較圖

W16CTCW0.1HA W16CTCY0.1H0 W171TCW0.1HA W171TCY0.1H0 W172TCW0.1HA W172TCY0.1H0
W173TCW0.1HA W173TCY0.1H0 W174TCW0.1HA W174TCY0.1H0 W175TCW0.1HA W175TCY0.1H0

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Wind Direction in Chung-Yun Seas of TCW0 at 2017

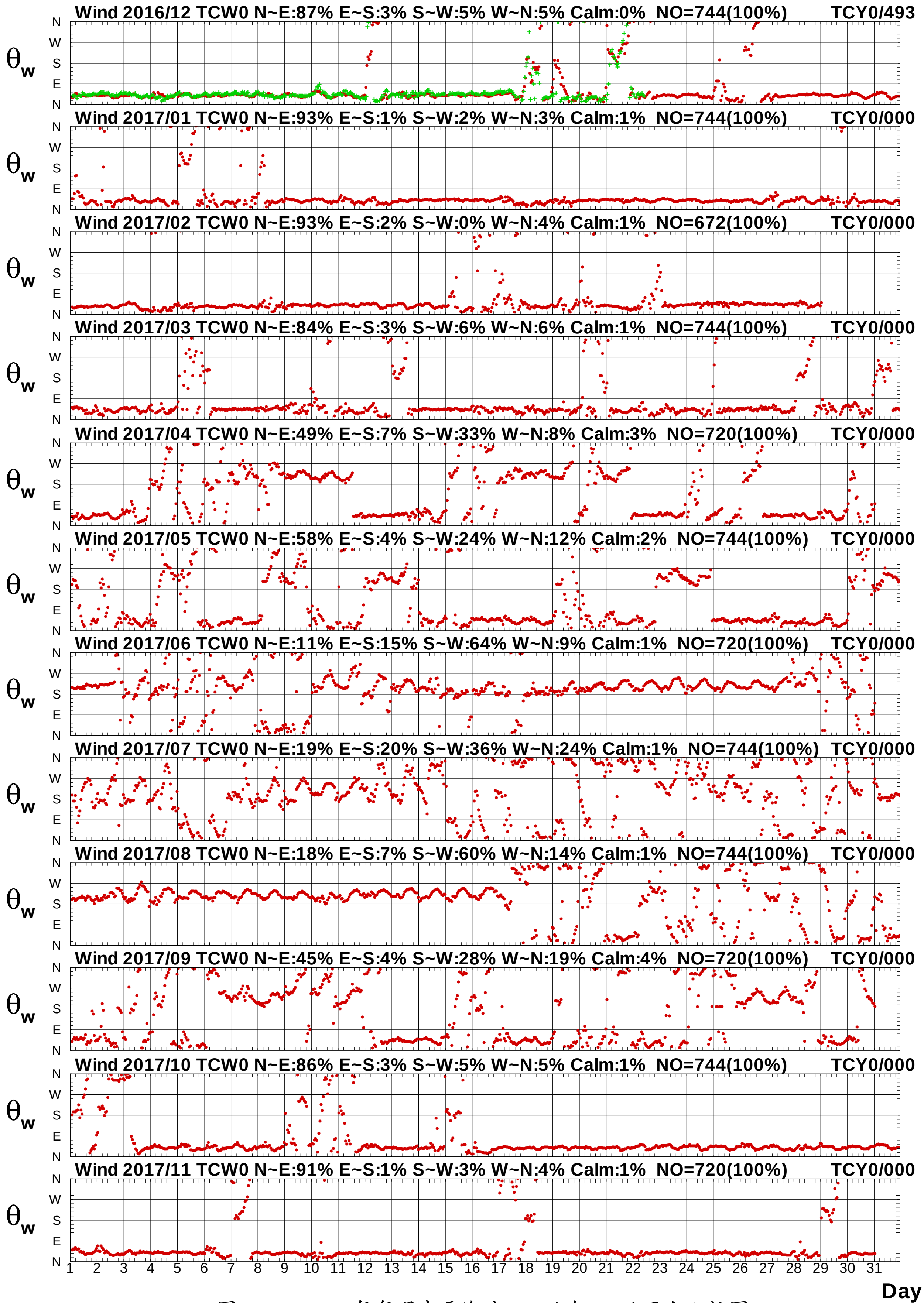

圖1.3b　2017年每月中雲海域 W 站與 Y 站風向比較圖

W16CTCW0.1HA W16CTCY0.1H0 W171TCW0.1HA W171TCY0.1H0 W172TCW0.1HA W172TCY0.1H0 W173TCW0.1HA W173TCY0.1H0 W174TCW0.1HA W174TCY0.1H0 W175TCW0.1HA W175TCY0.1H0	Institute of Harbor & Marine Technology

Wind Speed in Chung-Yun Seas of TCW0 at 2017

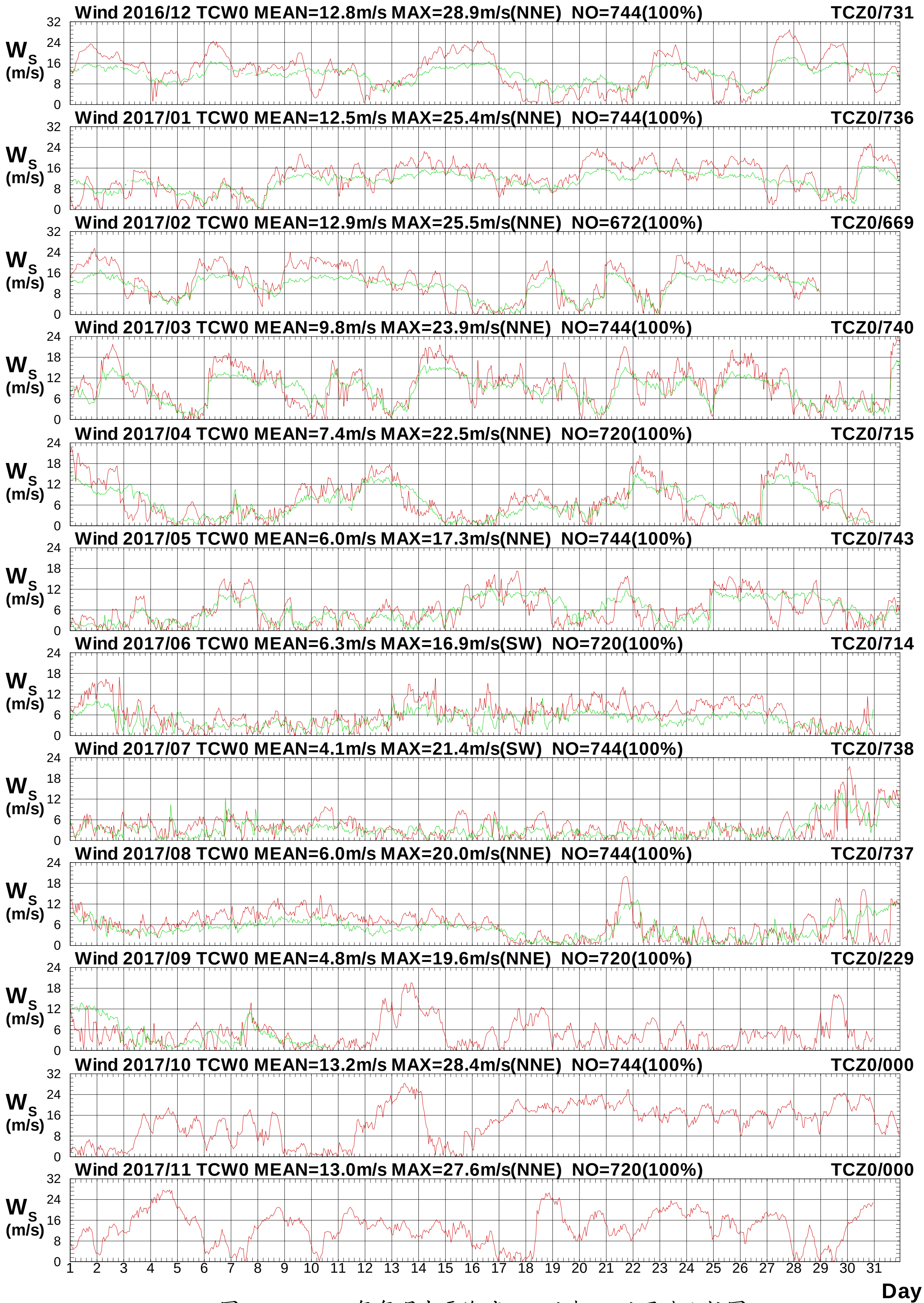

圖1.4a　2017年每月中雲海域 W 站與 Z 站風速比較圖

W16CTCW0.1HA W16CTCZ0.1H0 W171TCW0.1HA W171TCZ0.1H0 W172TCW0.1HA W172TCZ0.1H0
W173TCW0.1HA W173TCZ0.1H0 W174TCW0.1HA W174TCZ0.1H0 W175TCW0.1HA W175TCZ0.1H0

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Wind Direction in Chung-Yun Seas of TCW0 at 2017

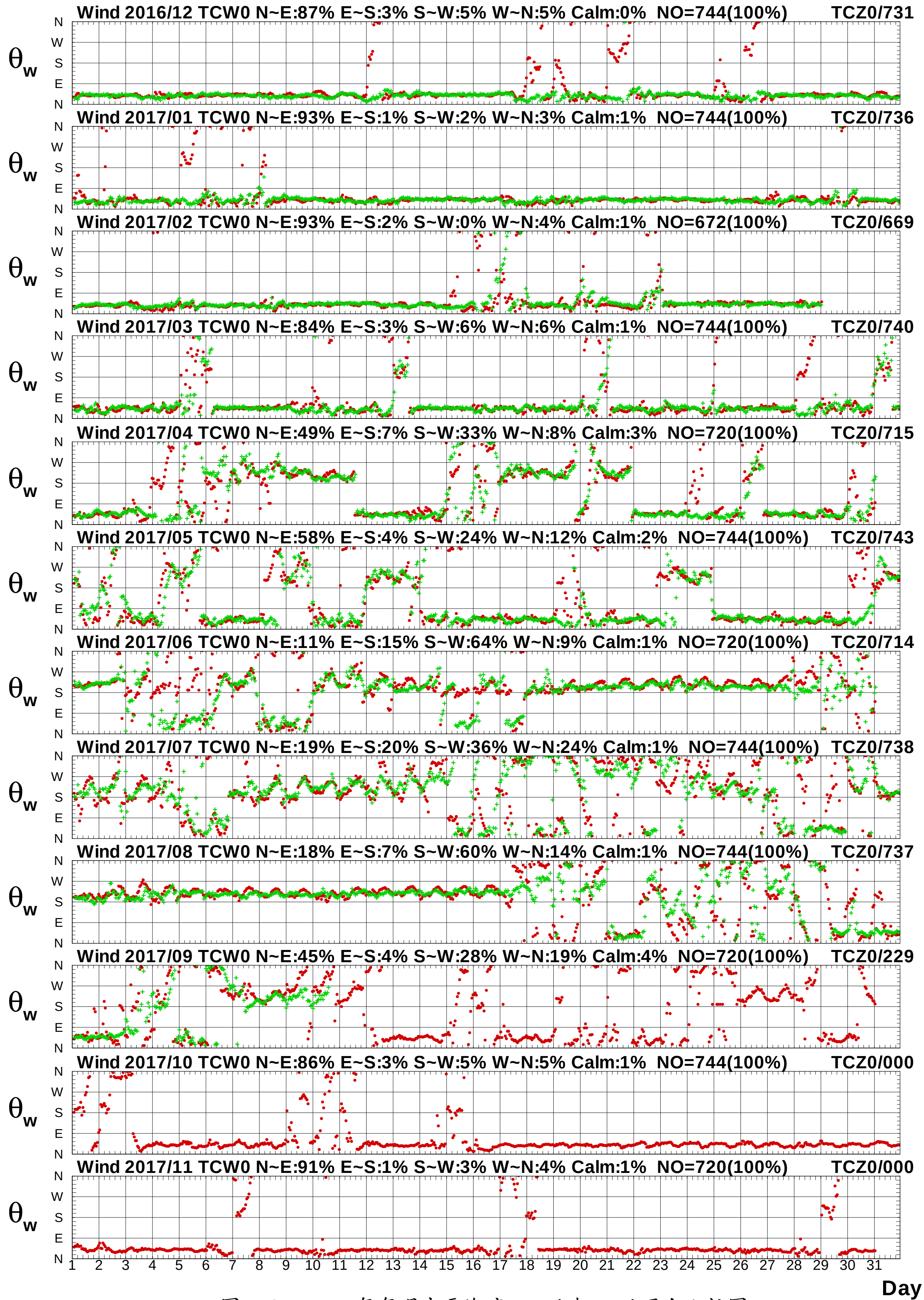

圖1.4b　2017年每月中雲海域 W 站與 Z 站風向比較圖

W16CTCW0.1HA W16CTCZ0.1H0 W171TCW0.1HA W171TCZ0.1H0 W172TCW0.1HA W172TCZ0.1H0
W173TCW0.1HA W173TCZ0.1H0 W174TCW0.1HA W174TCZ0.1H0 W175TCW0.1HA W175TCZ0.1H0

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Wind Speed in Chung-Yun Seas of TCW0 at 2017

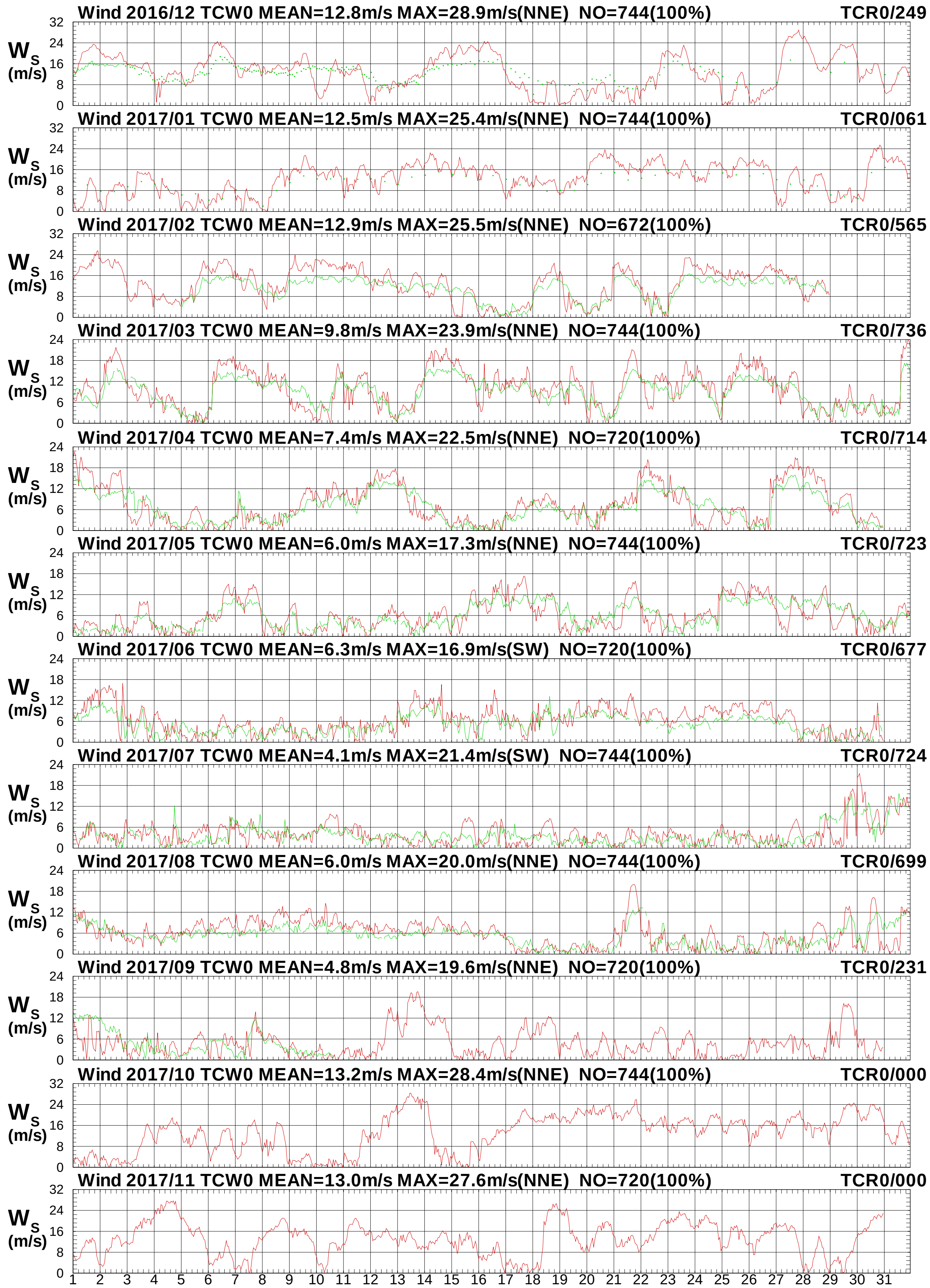

圖1.5a　2017年每月中雲海域 W 站與 R 站風速比較圖

W16CTCW0.1HA W16CTCR0.1H0 W171TCW0.1HA W171TCR0.1H0 W172TCW0.1HA W172TCR0.1H0 W173TCW0.1HA W173TCR0.1H0 W174TCW0.1HA W174TCR0.1H0 W175TCW0.1HA W175TCR0.1H0	Institute of Harbor & Marine Technology

Wind Direction in Chung-Yun Seas of TCW0 at 2017

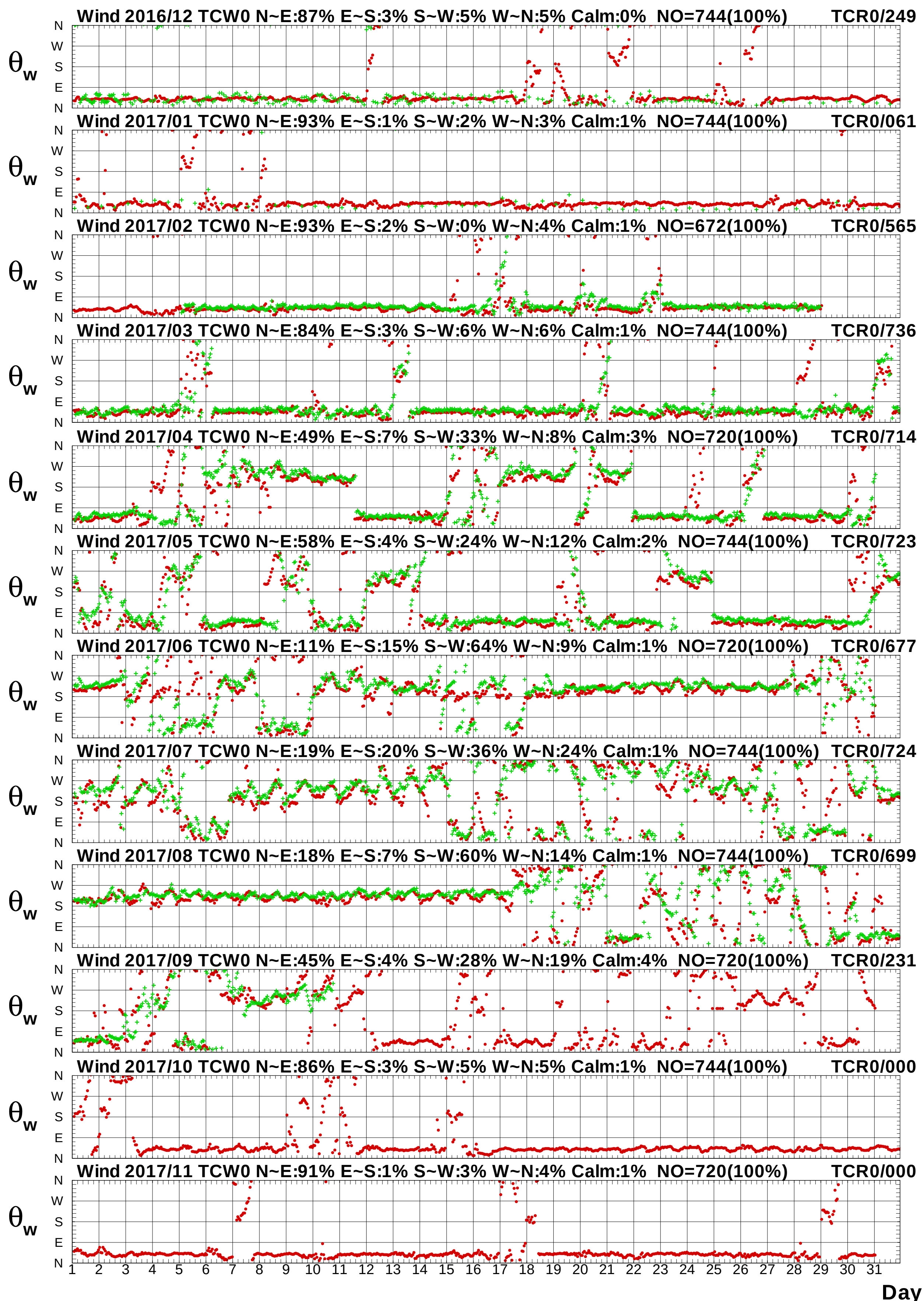

圖1.5b 2017年每月中雲海域 W 站與 R 站風向比較圖

W16CTCW0.1HA W16CTCR0.1H0 W171TCW0.1HA W171TCR0.1H0 W172TCW0.1HA W172TCR0.1H0
W173TCW0.1HA W173TCR0.1H0 W174TCW0.1HA W174TCR0.1H0 W175TCW0.1HA W175TCR0.1H0

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Wind Speed in Chung-Yun Seas of TCW0 at 2017

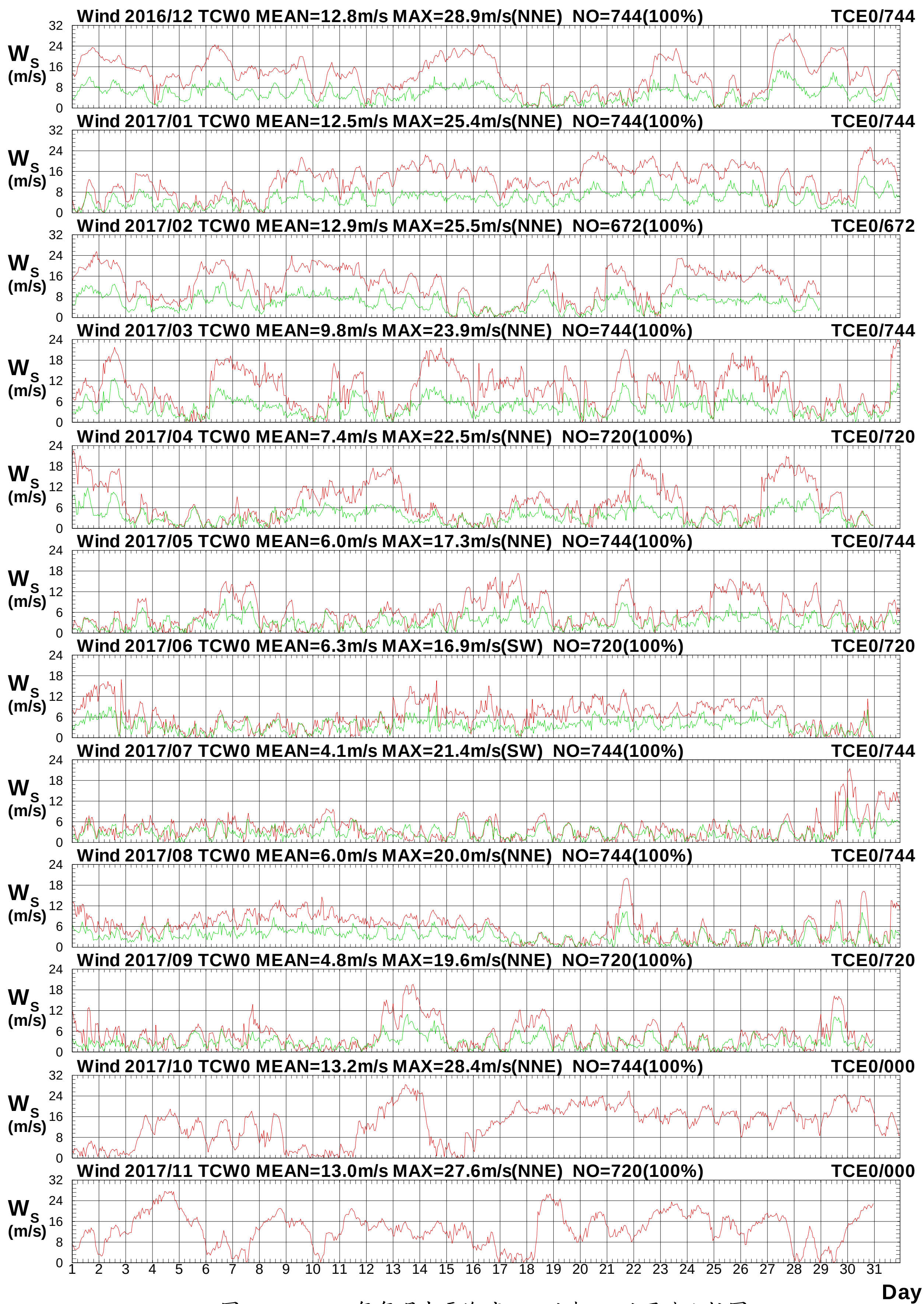

圖1.6a　2017年每月中雲海域 W 站與 E 站風速比較圖

W16CTCW0.1HA W16CTCE0.1H0 W171TCW0.1HA W171TCE0.1H0 W172TCW0.1HA W172TCE0.1H0
W173TCW0.1HA W173TCE0.1H0 W174TCW0.1HA W174TCE0.1H0 W175TCW0.1HA W175TCE0.1H0

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Wind Direction in Chung-Yun Seas of TCW0 at 2017

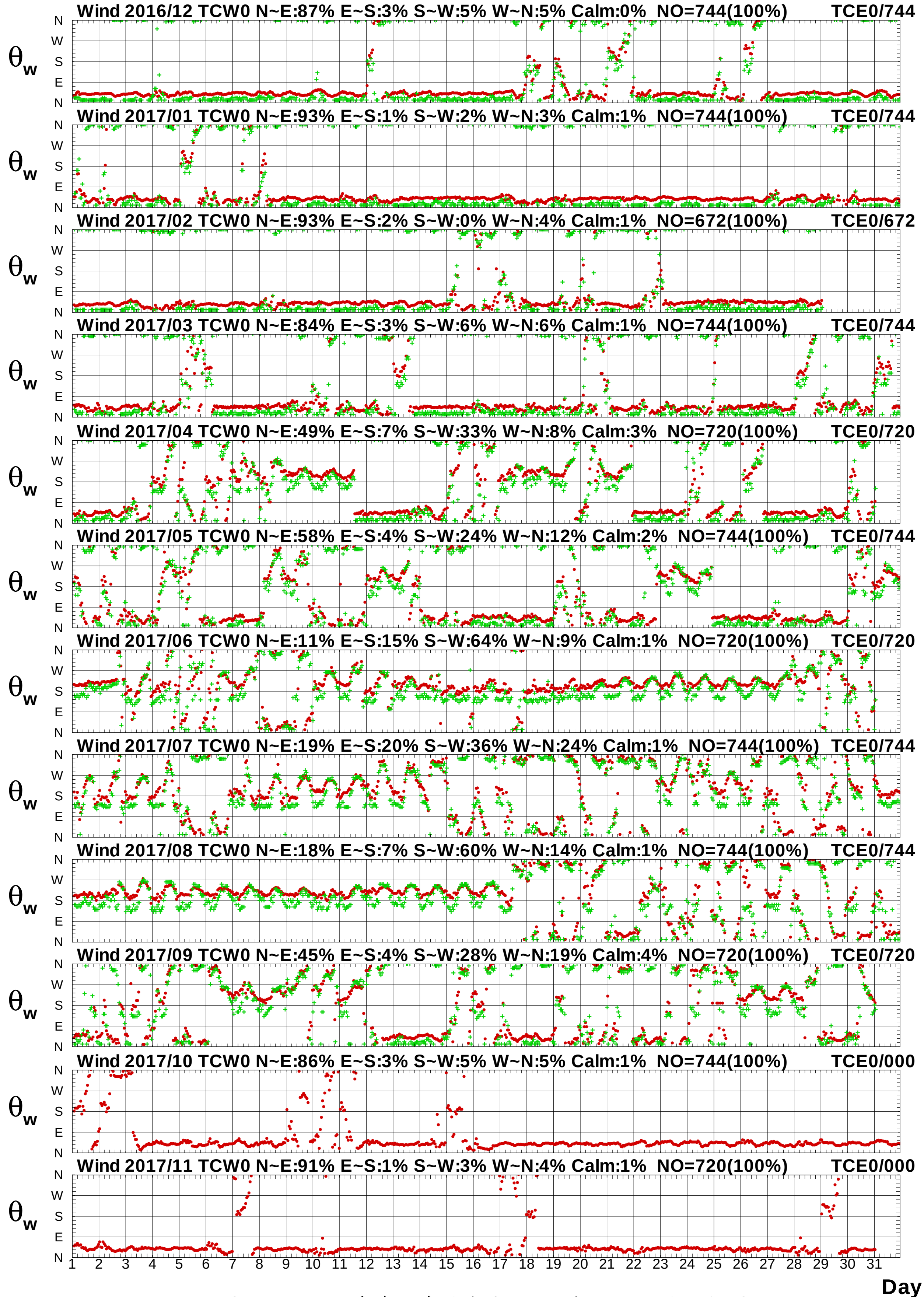

圖1.6b　2017年每月中雲海域 W 站與 E 站風向比較圖

W16CTCW0.1HA W16CTCE0.1H0 W171TCW0.1HA W171TCE0.1H0 W172TCW0.1HA W172TCE0.1H0
W173TCW0.1HA W173TCE0.1H0 W174TCW0.1HA W174TCE0.1H0 W175TCW0.1HA W175TCE0.1H0

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Wind Speed in Chung-Yun Seas of TCW0 at 2017

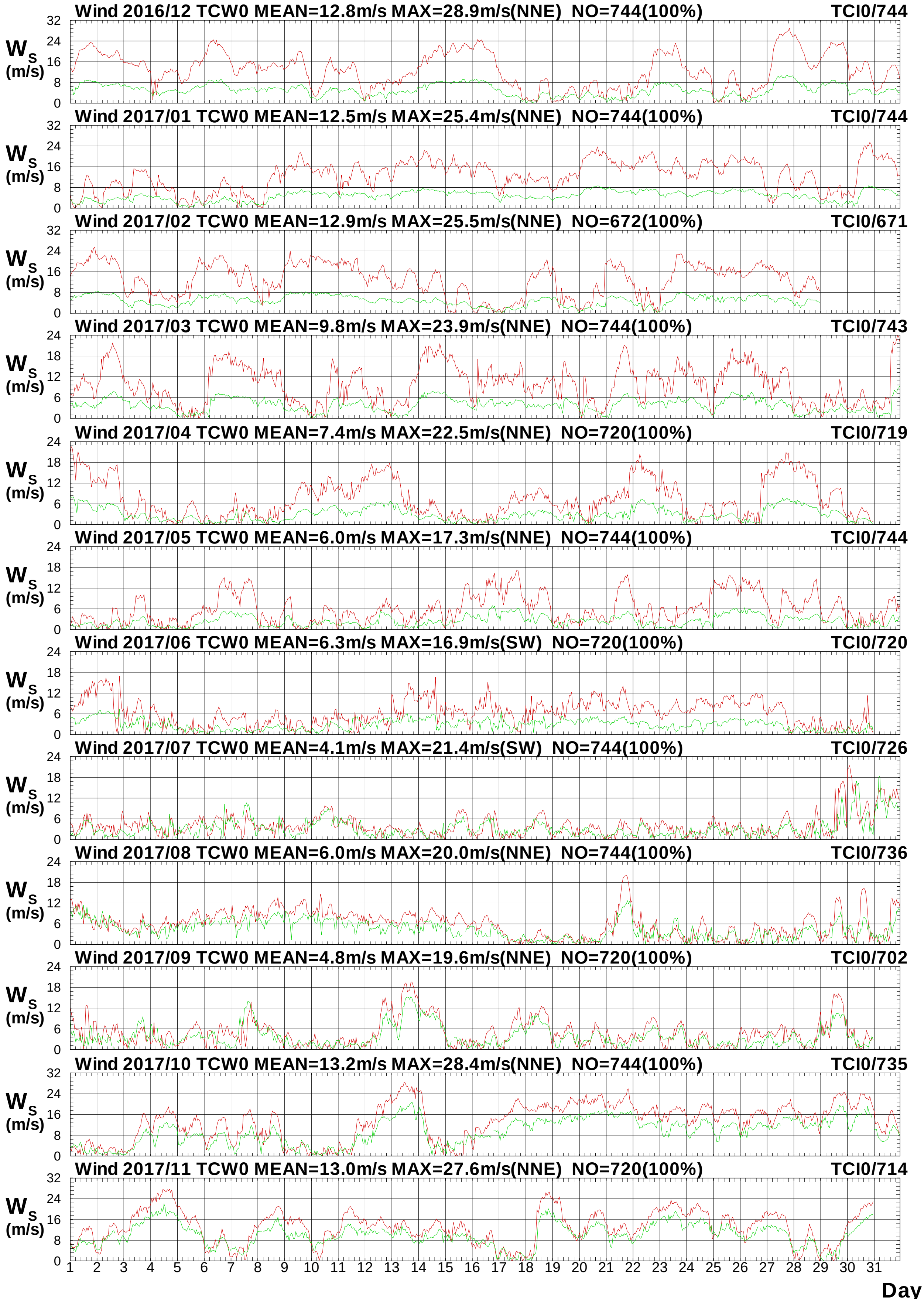

圖1.7a　2017年每月中雲海域 W 站與 I 站風速比較圖

W16CTCW0.1HA W16CTCI0.1H0 W171TCW0.1HA W171TCI0.1H0 W172TCW0.1HA W172TCI0.1H0
W173TCW0.1HA W173TCI0.1H0 W174TCW0.1HA W174TCI0.1H0 W175TCW0.1HA W175TCI0.1H0

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Wind Direction in Chung-Yun Seas of TCW0 at 2017

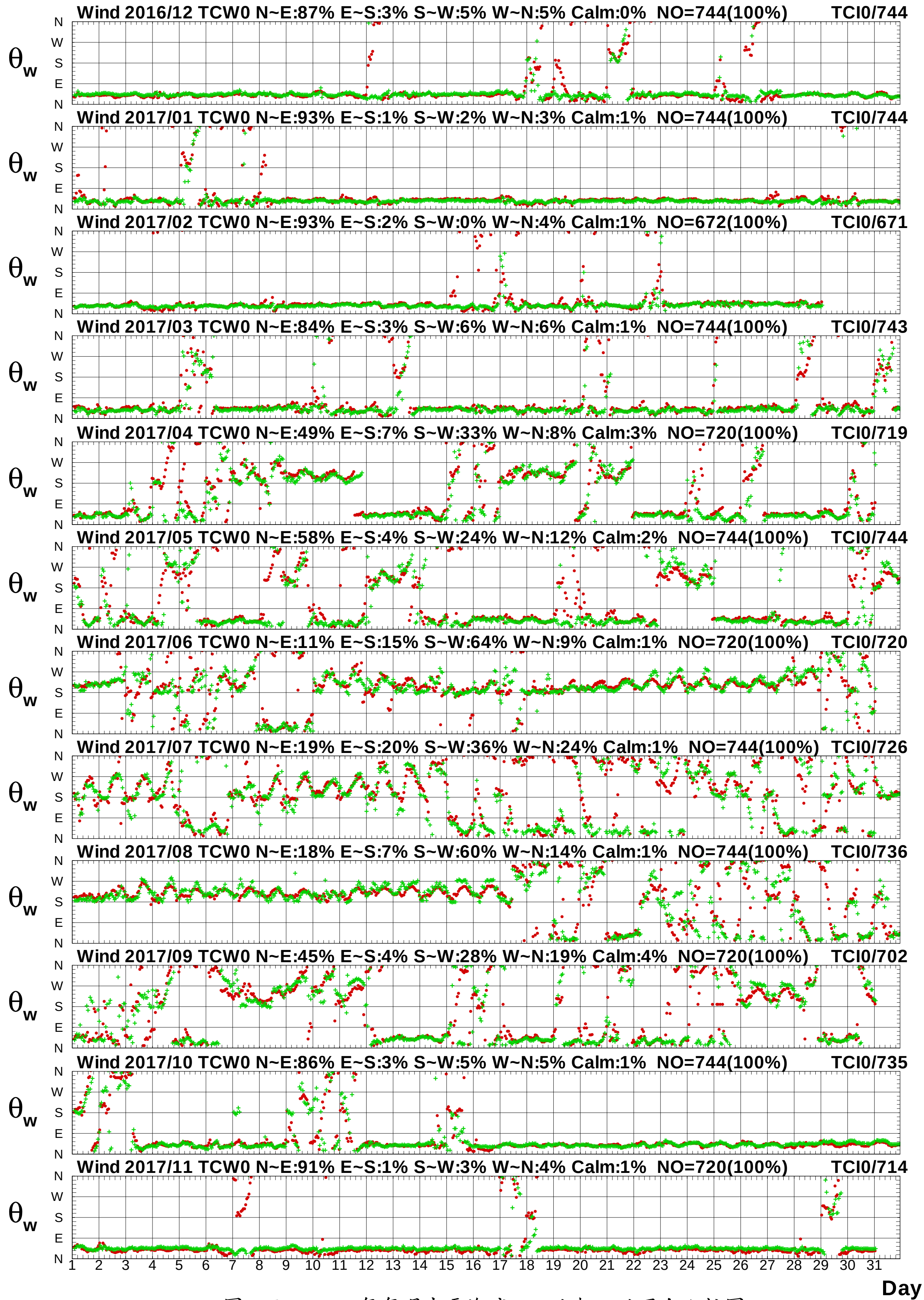

圖1.7b　2017年每月中雲海域 W 站與 I 站風向比較圖

W16CTCW0.1HA W16CTCI0.1H0 W171TCW0.1HA W171TCI0.1H0 W172TCW0.1HA W172TCI0.1H0 W173TCW0.1HA W173TCI0.1H0 W174TCW0.1HA W174TCI0.1H0 W175TCW0.1HA W175TCI0.1H0	Institute of Harbor & Marine Technology

Wind Speed in Chung-Yun Seas of TCW0 at 2017

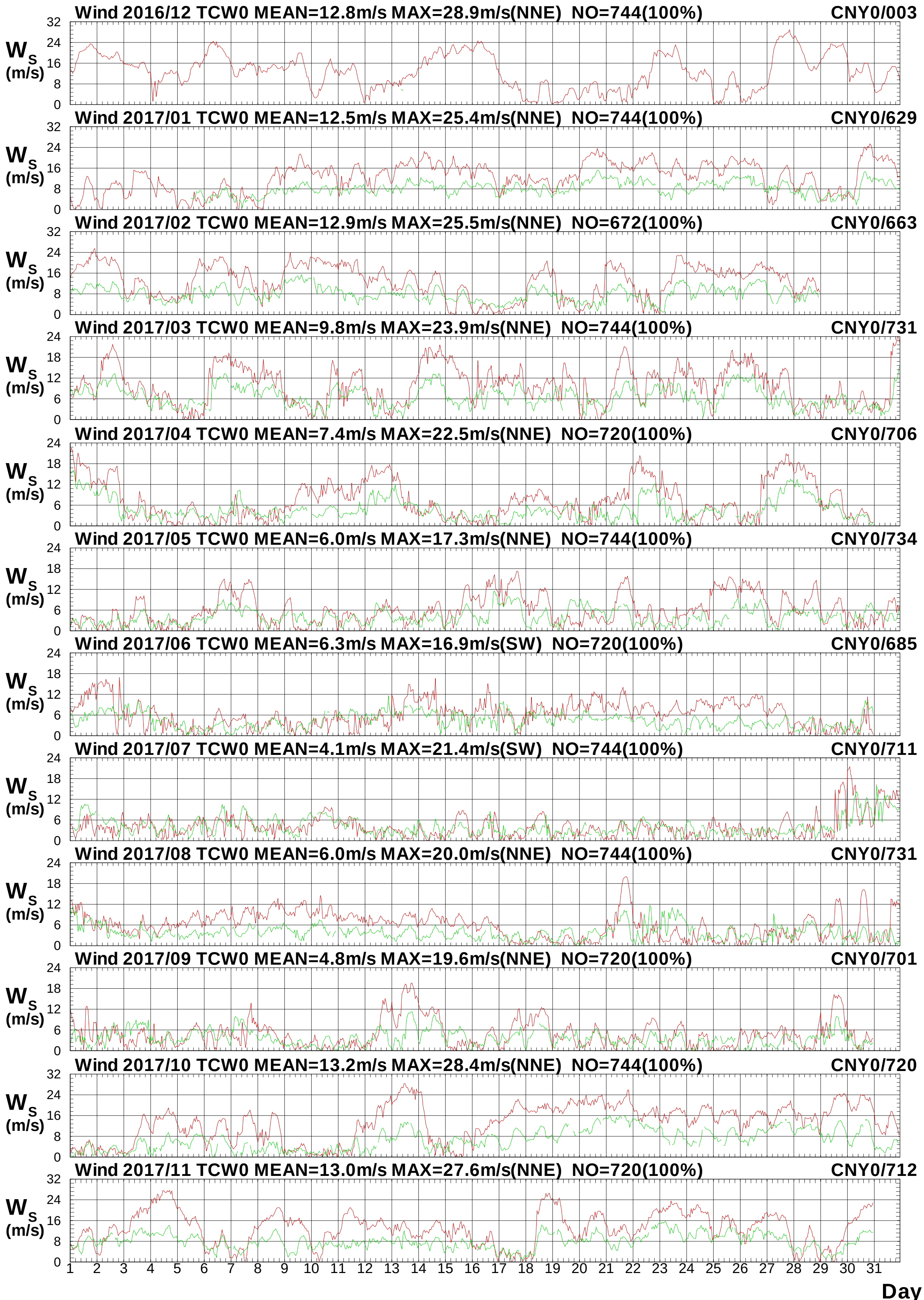

圖1.8a　2017年每月中雲海域 W 站與嘉南海域 Y 站風速圖

W16CTCW0.1HA W16CCNY0.1H0 W171TCW0.1HA W171CNY0.1H0 W172TCW0.1HA W172CNY0.1H0 W173TCW0.1HA W173CNY0.1H0 W174TCW0.1HA W174CNY0.1H0 W175TCW0.1HA W175CNY0.1H0	Institute of Harbor & Marine Technology

Wind Direction in Chung-Yun Seas of TCW0 at 2017

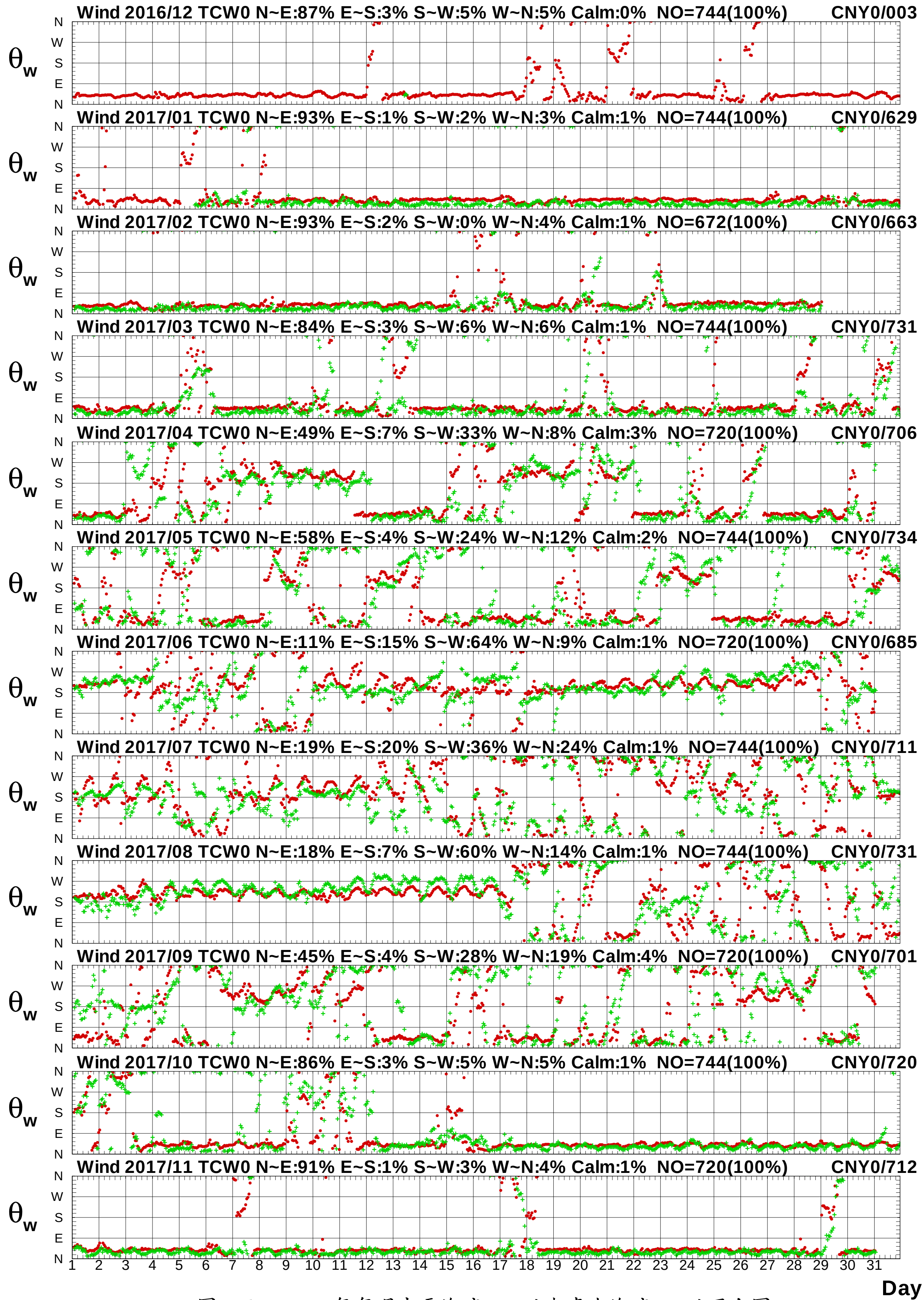

圖1.8b 2017年每月中雲海域 W 站與嘉南海域 Y 站風向圖

W16CTCW0.1HA W16CCNY0.1H0 W171TCW0.1HA W171CNY0.1H0 W172TCW0.1HA W172CNY0.1H0
W173TCW0.1HA W173CNY0.1H0 W174TCW0.1HA W174CNY0.1H0 W175TCW0.1HA W175CNY0.1H0

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Wind Speed in Chung-Yun Seas of TCW0 at 2017

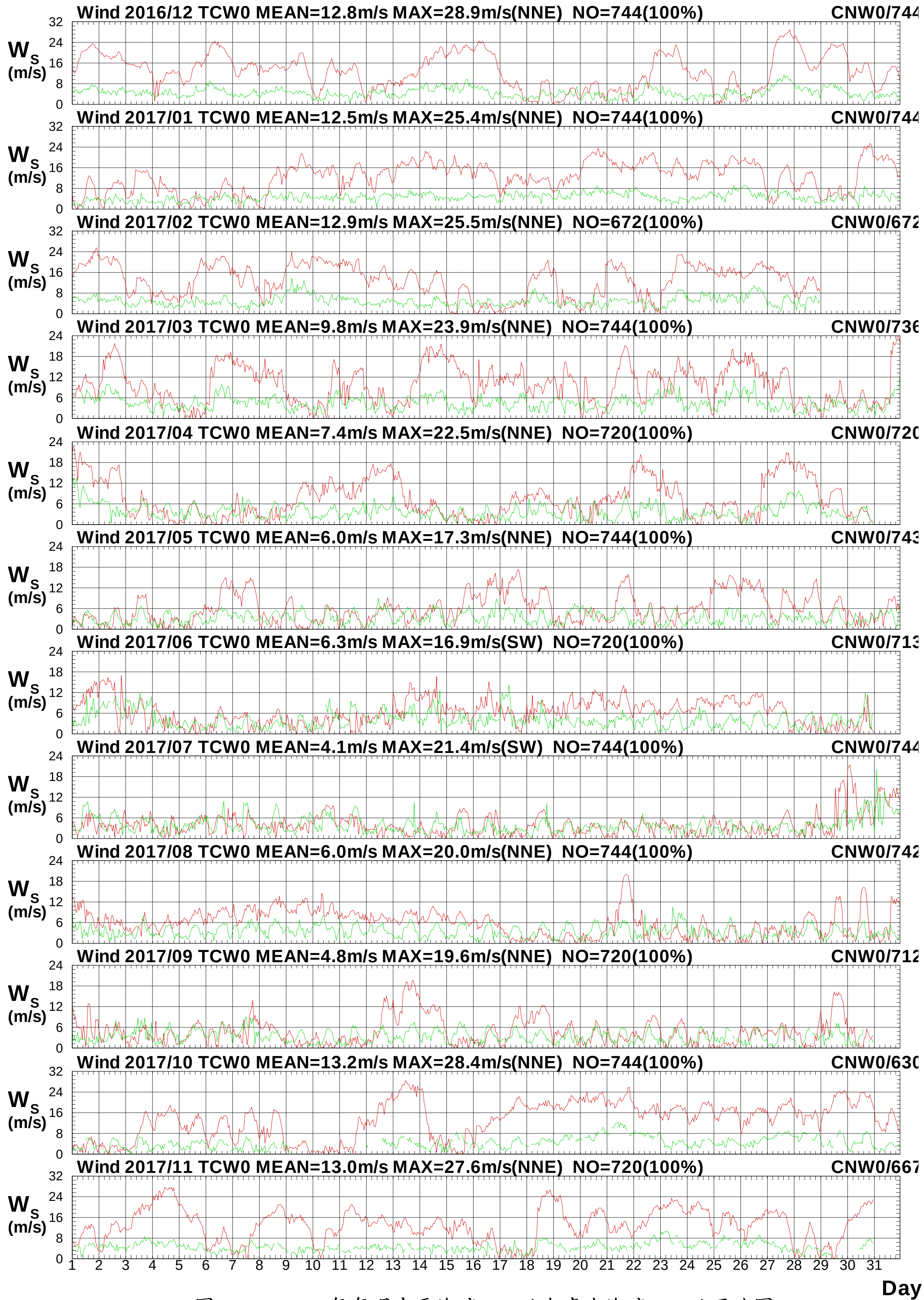

圖1.9a　2017年每月中雲海域 W 站與嘉南海域 W 站風速圖

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W173TCW0.1HA W173CNW0.1H0 W174TCW0.1HA W174CNW0.1H0 W175TCW0.1HA W175CNW0.1H0

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Wind Direction in Chung-Yun Seas of TCW0 at 2017

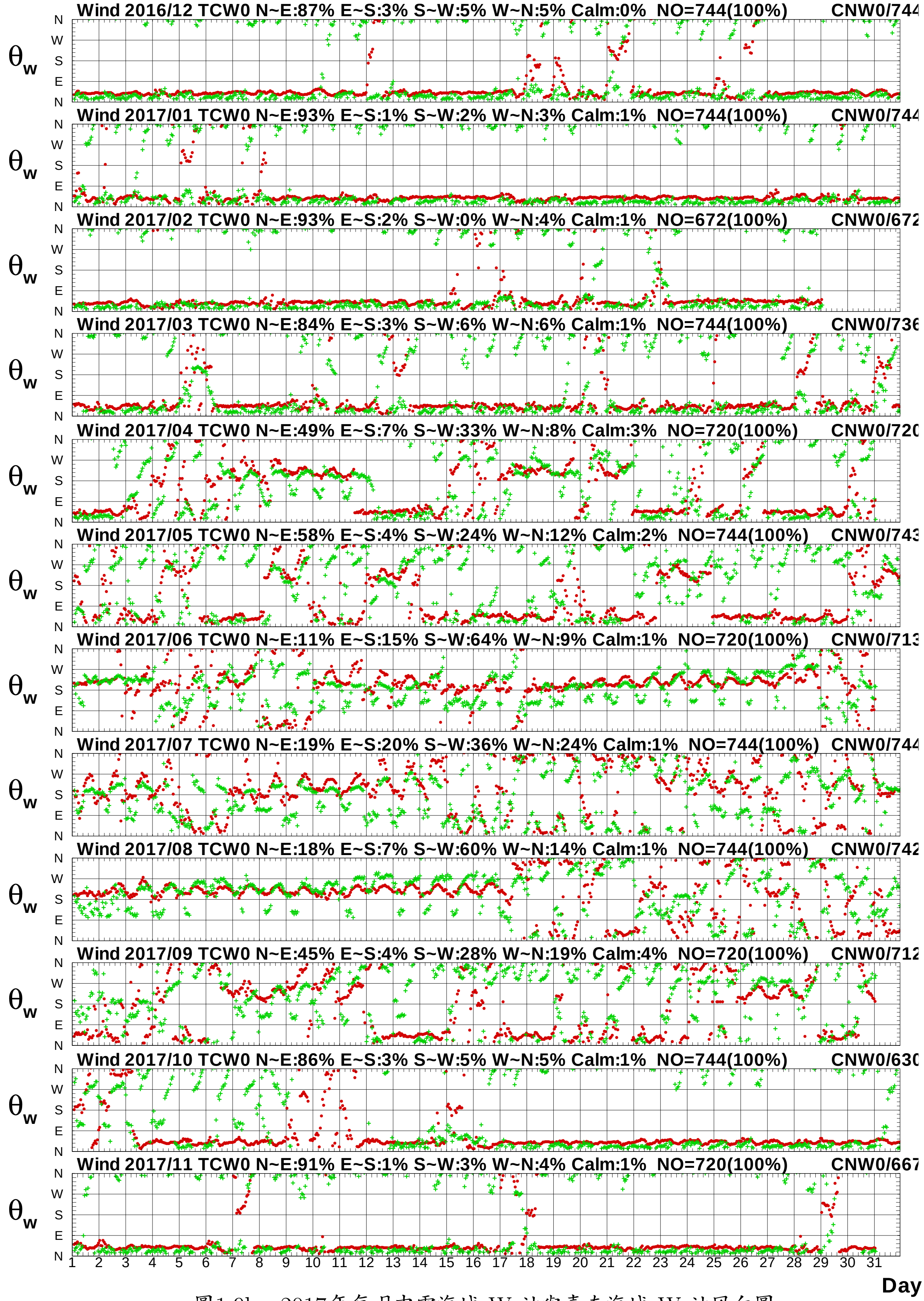

圖1.9b　2017年每月中雲海域 W 站與嘉南海域 W 站風向圖

W16CTCW0.1HA W16CCNW0.1H0 W171TCW0.1HA W171CNW0.1H0 W172TCW0.1HA W172CNW0.1H0
W173TCW0.1HA W173CNW0.1H0 W174TCW0.1HA W174CNW0.1H0 W175TCW0.1HA W175CNW0.1H0

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Wind Speed in Chung-Yun Seas of TCW0 at 2017

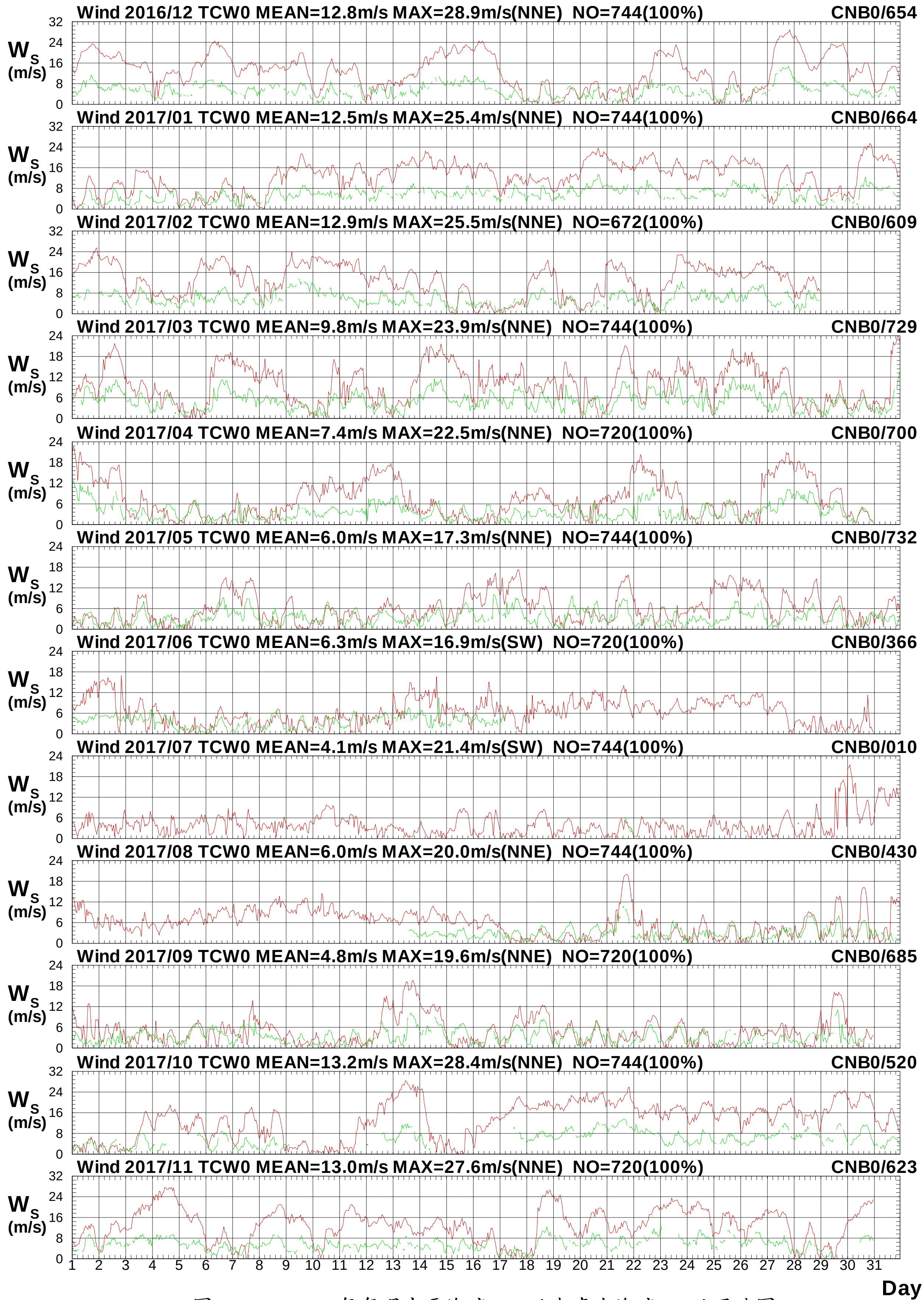

圖1.10a　2017年每月中雲海域 W 站與嘉南海域 B 站風速圖

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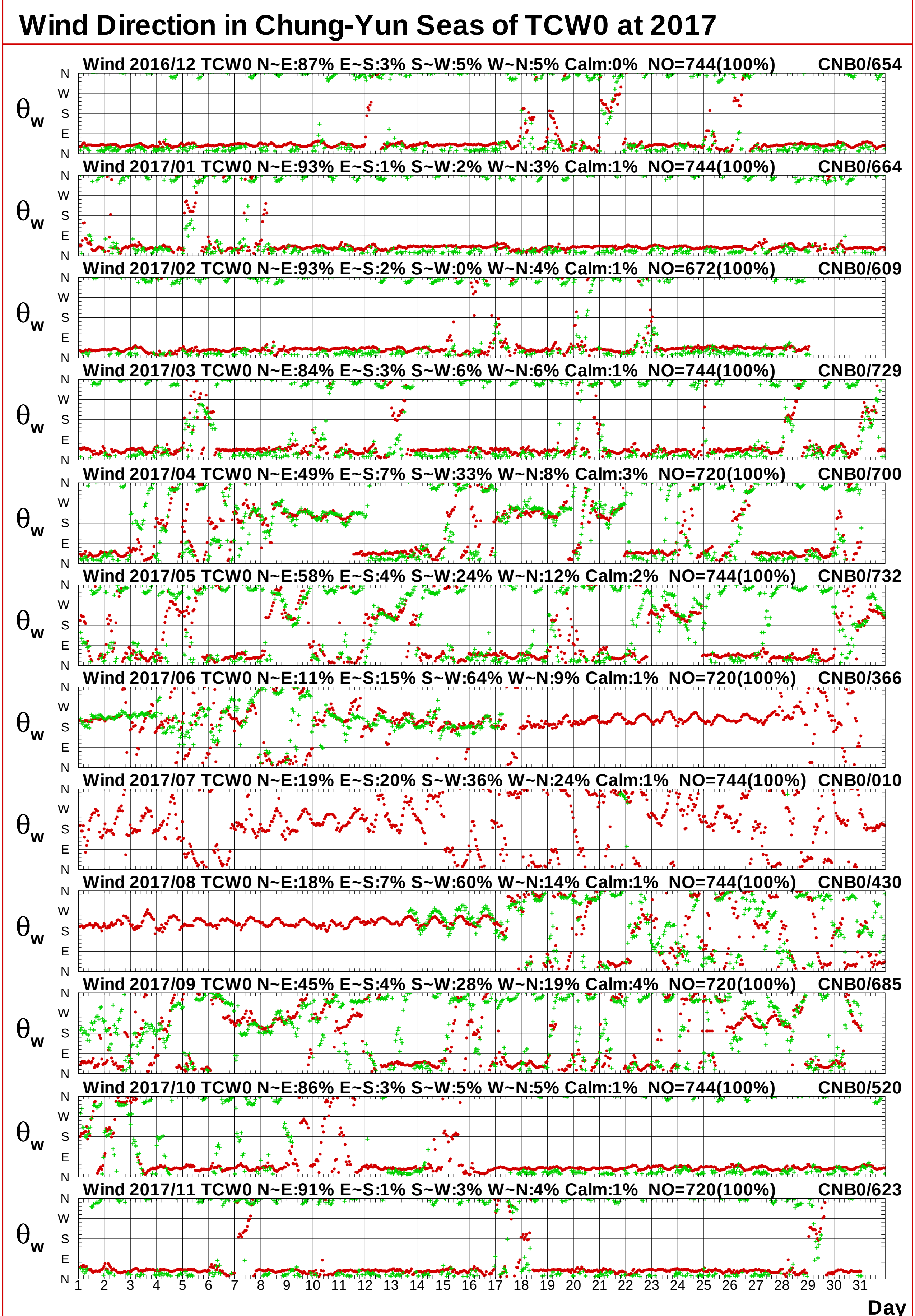

圖1.10b 2017年每月中雲海域 W 站與嘉南海域 B 站風向圖

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Wind Speed in Chung-Yun Seas of TCW0 at 2017

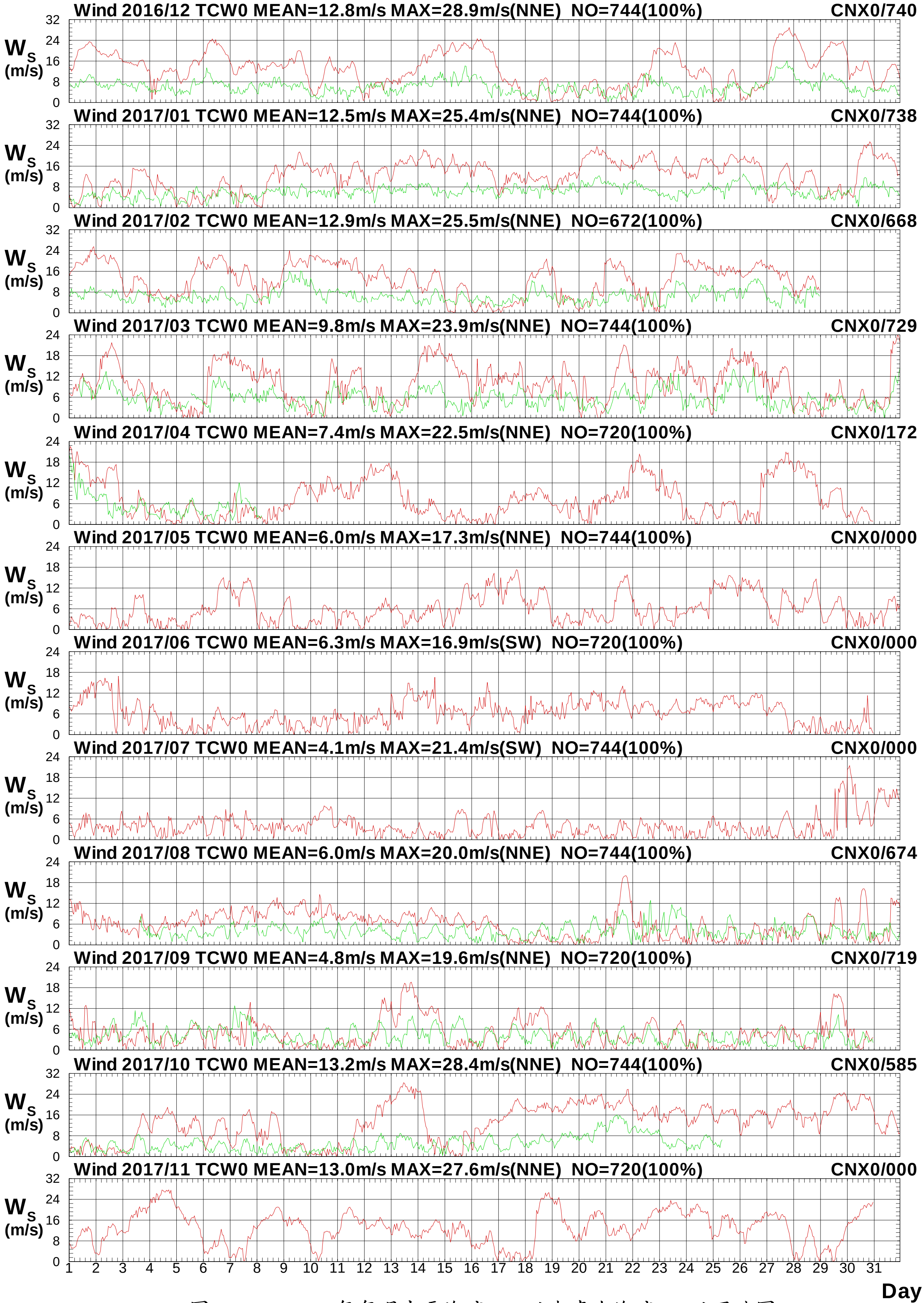

圖1.11a　2017年每月中雲海域 W 站與嘉南海域 X 站風速圖

W16CTCW0.1HA W16CCNX0.1H0 W171TCW0.1HA W171CNX0.1H0 W172TCW0.1HA W172CNX0.1H0
W173TCW0.1HA W173CNX0.1H0 W174TCW0.1HA W174CNX0.1H0 W175TCW0.1HA W175CNX0.1H0

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Wind Direction in Chung-Yun Seas of TCW0 at 2017

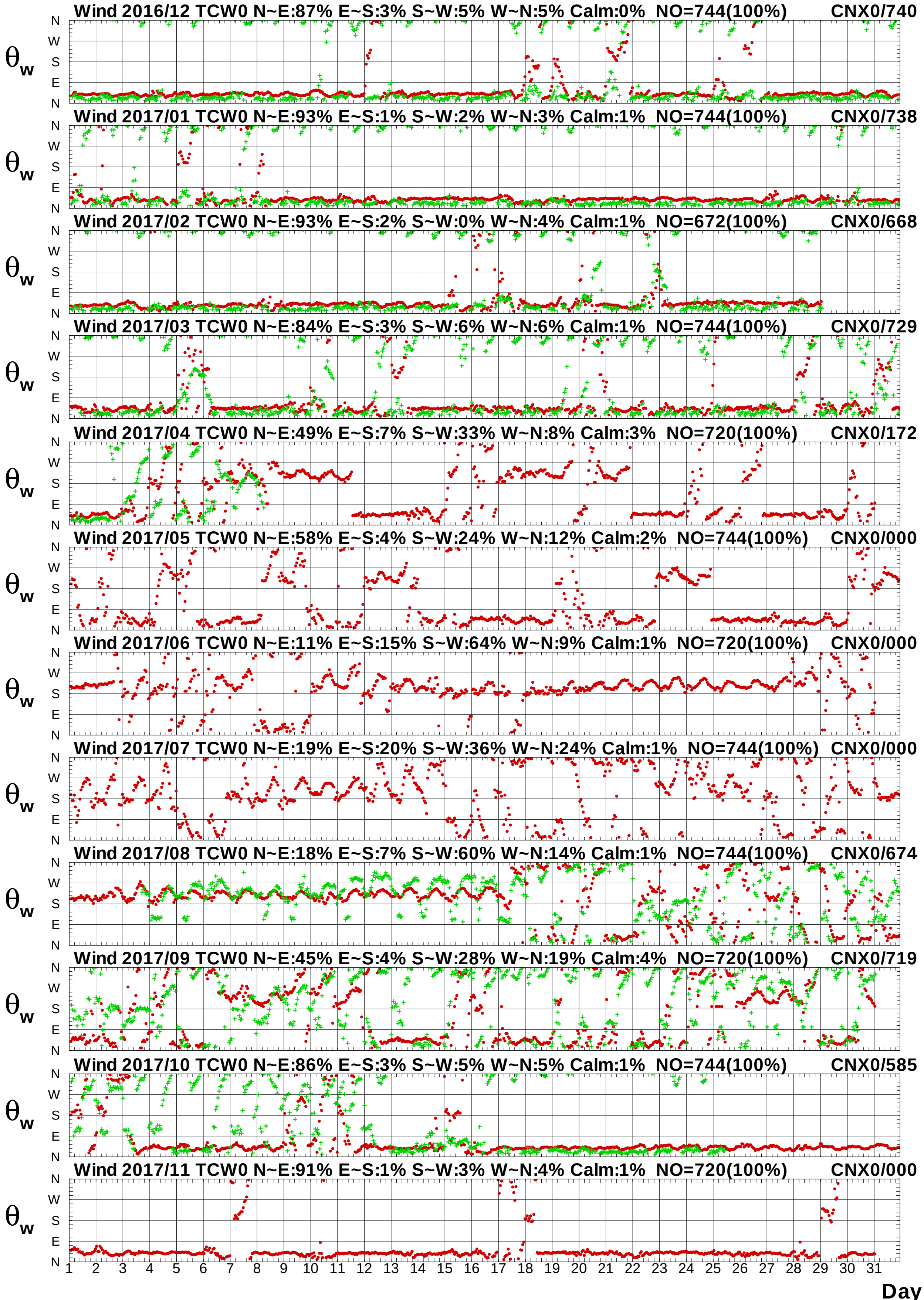

圖1.11b　2017年每月中雲海域 W 站與嘉南海域 X 站風向圖

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W173TCW0.1HA W173CNX0.1H0 W174TCW0.1HA W174CNX0.1H0 W175TCW0.1HA W175CNX0.1H0

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Wind Speed in Chung-Yun Seas of TCW0 at 2017

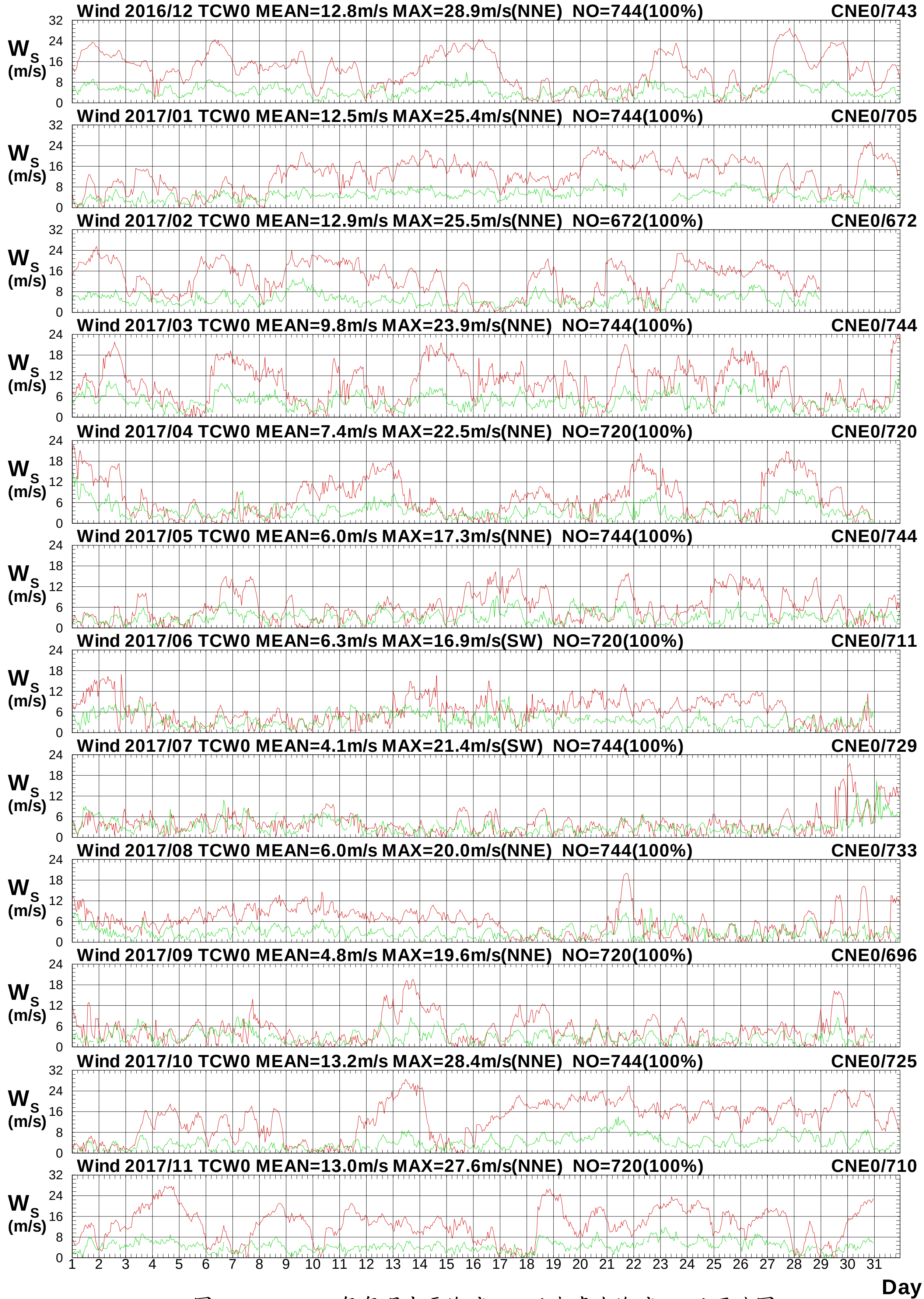

圖1.12a 2017年每月中雲海域 W 站與嘉南海域 E 站風速圖

W16CTCW0.1HA W16CCNE0.1H0 W171TCW0.1HA W171CNE0.1H0 W172TCW0.1HA W172CNE0.1H0 W173TCW0.1HA W173CNE0.1H0 W174TCW0.1HA W174CNE0.1H0 W175TCW0.1HA W175CNE0.1H0	Institute of Harbor & Marine Technology

Wind Direction in Chung-Yun Seas of TCW0 at 2017

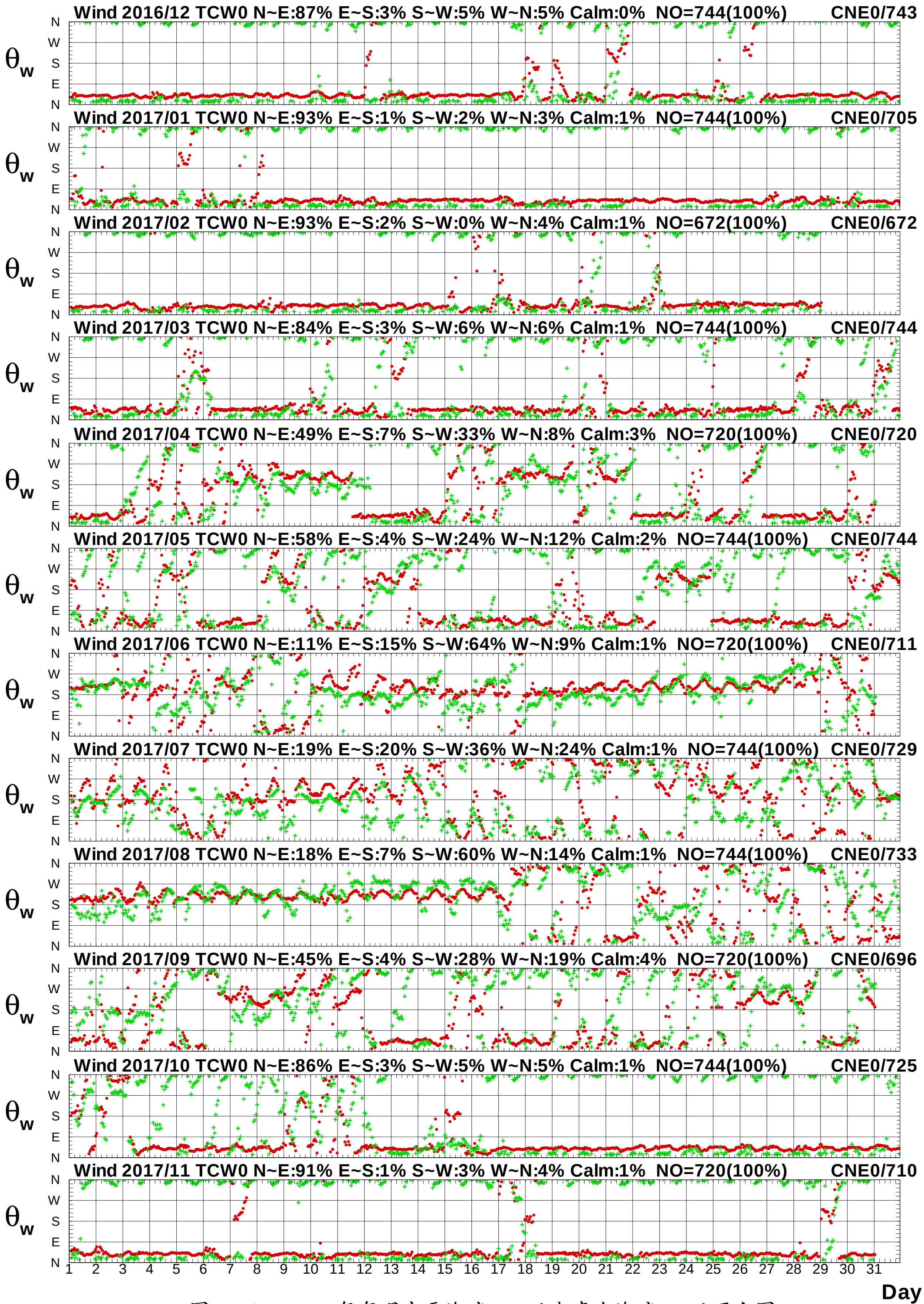

圖1.12b　2017年每月中雲海域 W 站與嘉南海域 E 站風向圖

W16CTCW0.1HA W16CCNE0.1H0 W171TCW0.1HA W171CNE0.1H0 W172TCW0.1HA W172CNE0.1H0
W173TCW0.1HA W173CNE0.1H0 W174TCW0.1HA W174CNE0.1H0 W175TCW0.1HA W175CNE0.1H0

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Wind Speed in Chung-Yun Seas of TCW0 at 2017

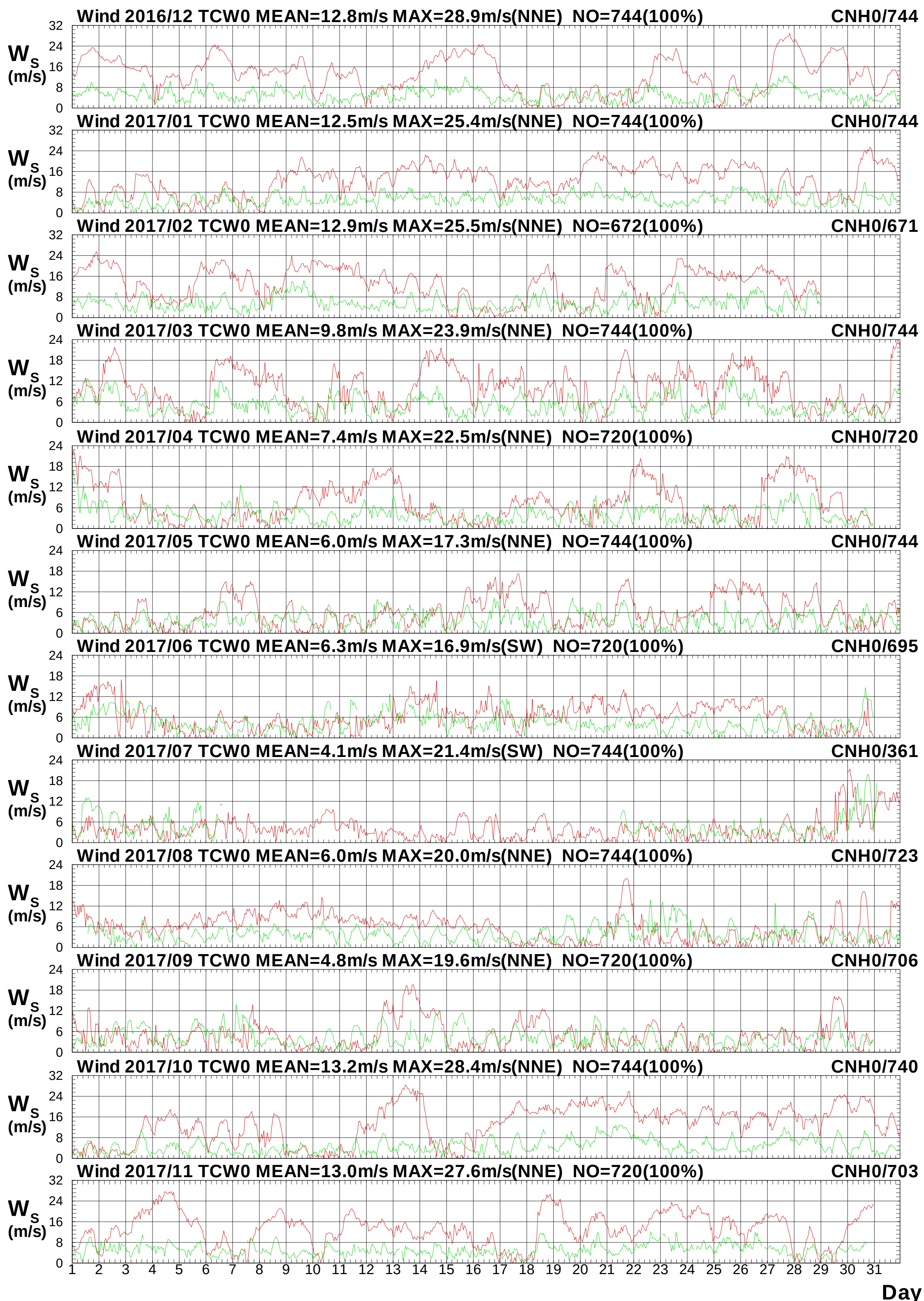

圖1.13a　2017年每月中雲海域 W 站與嘉南海域 H 站風速圖

W16CTCW0.1HA W16CCNH0.1H0 W171TCW0.1HA W171CNH0.1H0 W172TCW0.1HA W172CNH0.1H0
W173TCW0.1HA W173CNH0.1H0 W174TCW0.1HA W174CNH0.1H0 W175TCW0.1HA W175CNH0.1H0

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Wind Direction in Chung-Yun Seas of TCW0 at 2017

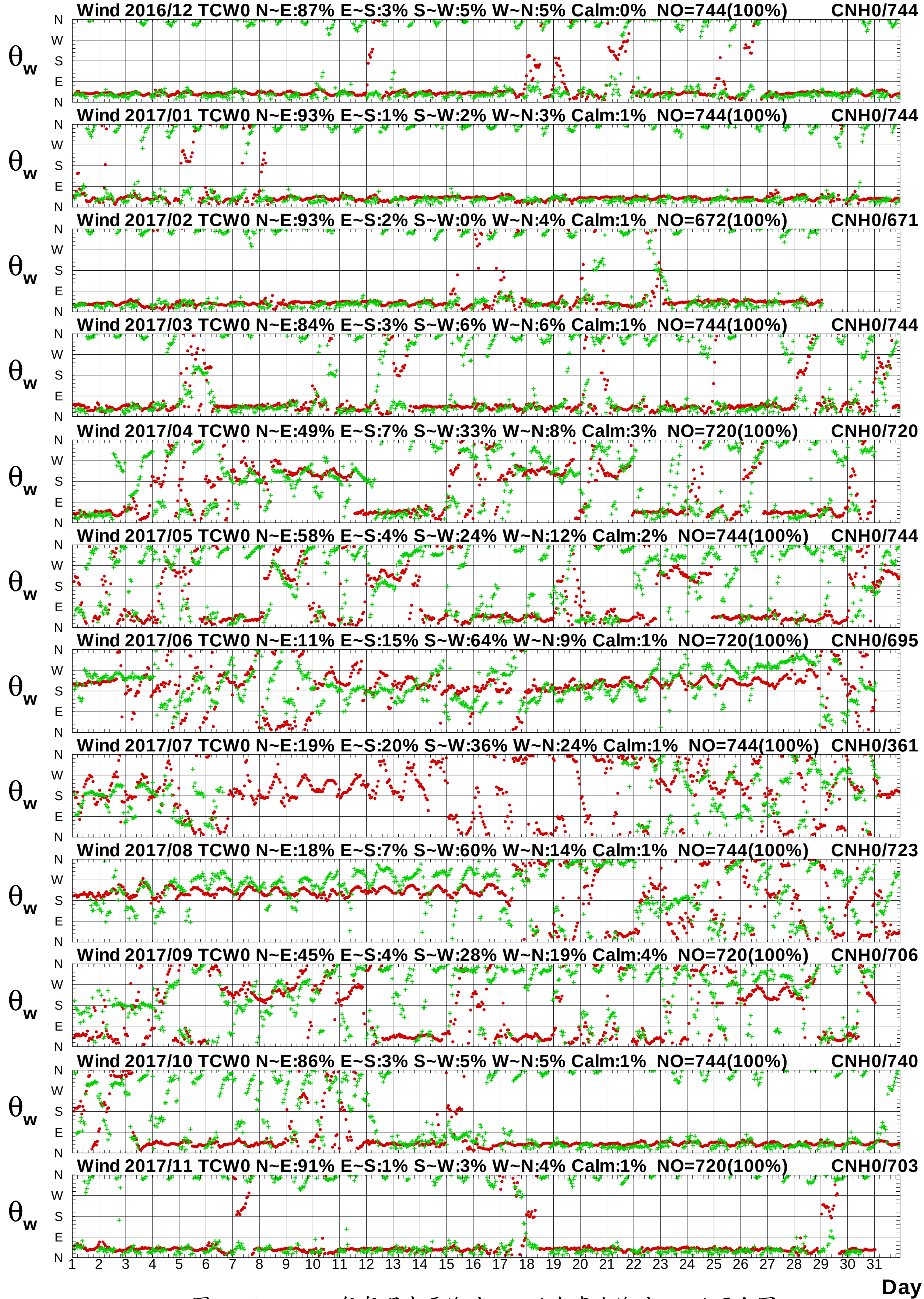

圖1.13b　2017年每月中雲海域 W 站與嘉南海域 H 站風向圖

W16CTCW0.1HA W16CCNH0.1H0 W171TCW0.1HA W171CNH0.1H0 W172TCW0.1HA W172CNH0.1H0
W173TCW0.1HA W173CNH0.1H0 W174TCW0.1HA W174CNH0.1H0 W175TCW0.1HA W175CNH0.1H0

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Wind Speed in Chung-Yun Seas of TCW0 at 2017

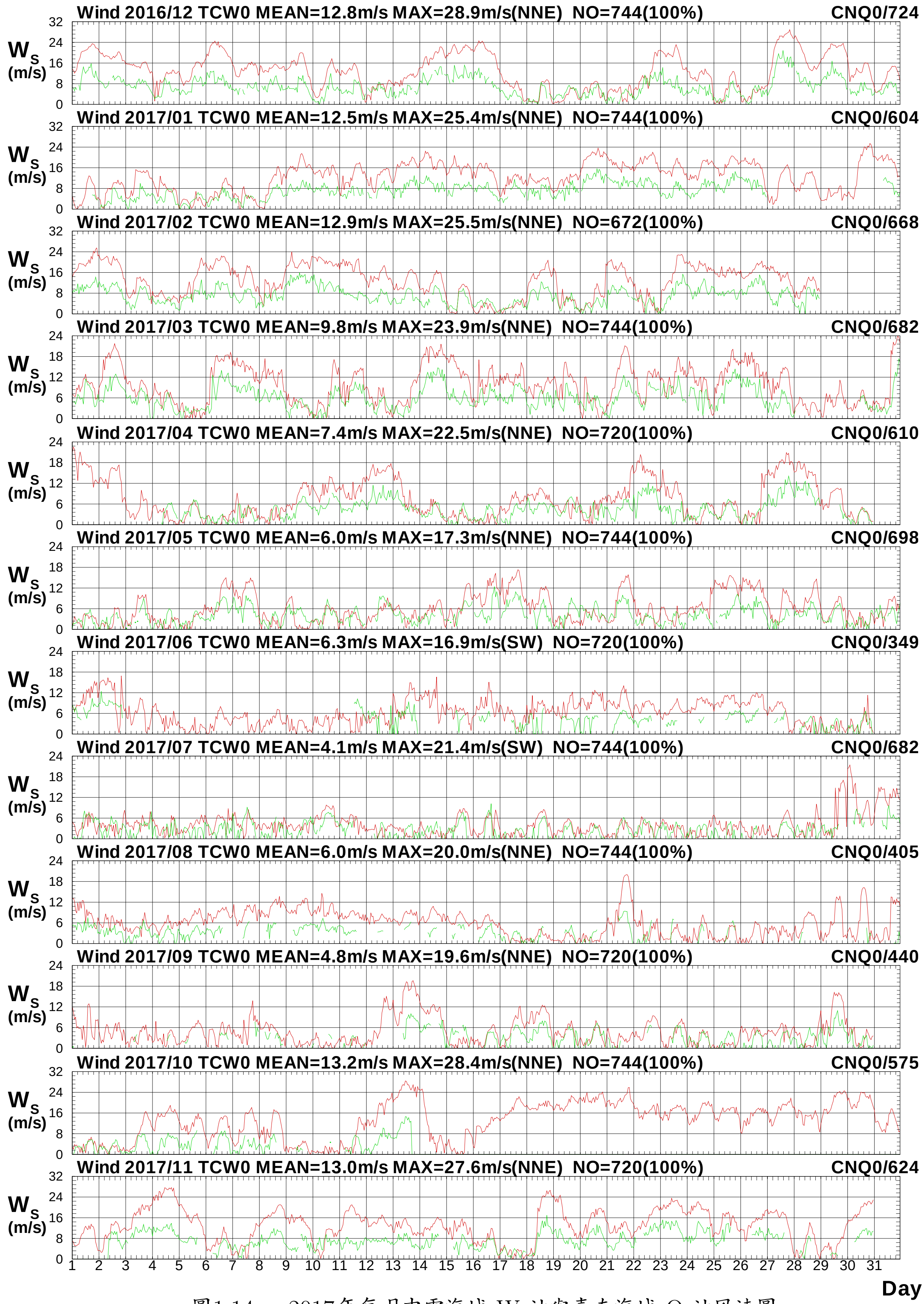

圖1.14a　2017年每月中雲海域 W 站與嘉南海域 Q 站風速圖

W16CTCW0.1HA W16CCNQ0.1H0 W171TCW0.1HA W171CNQ0.1H0 W172TCW0.1HA W172CNQ0.1H0
W173TCW0.1HA W173CNQ0.1H0 W174TCW0.1HA W174CNQ0.1H0 W175TCW0.1HA W175CNQ0.1H0

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Wind Direction in Chung-Yun Seas of TCW0 at 2017

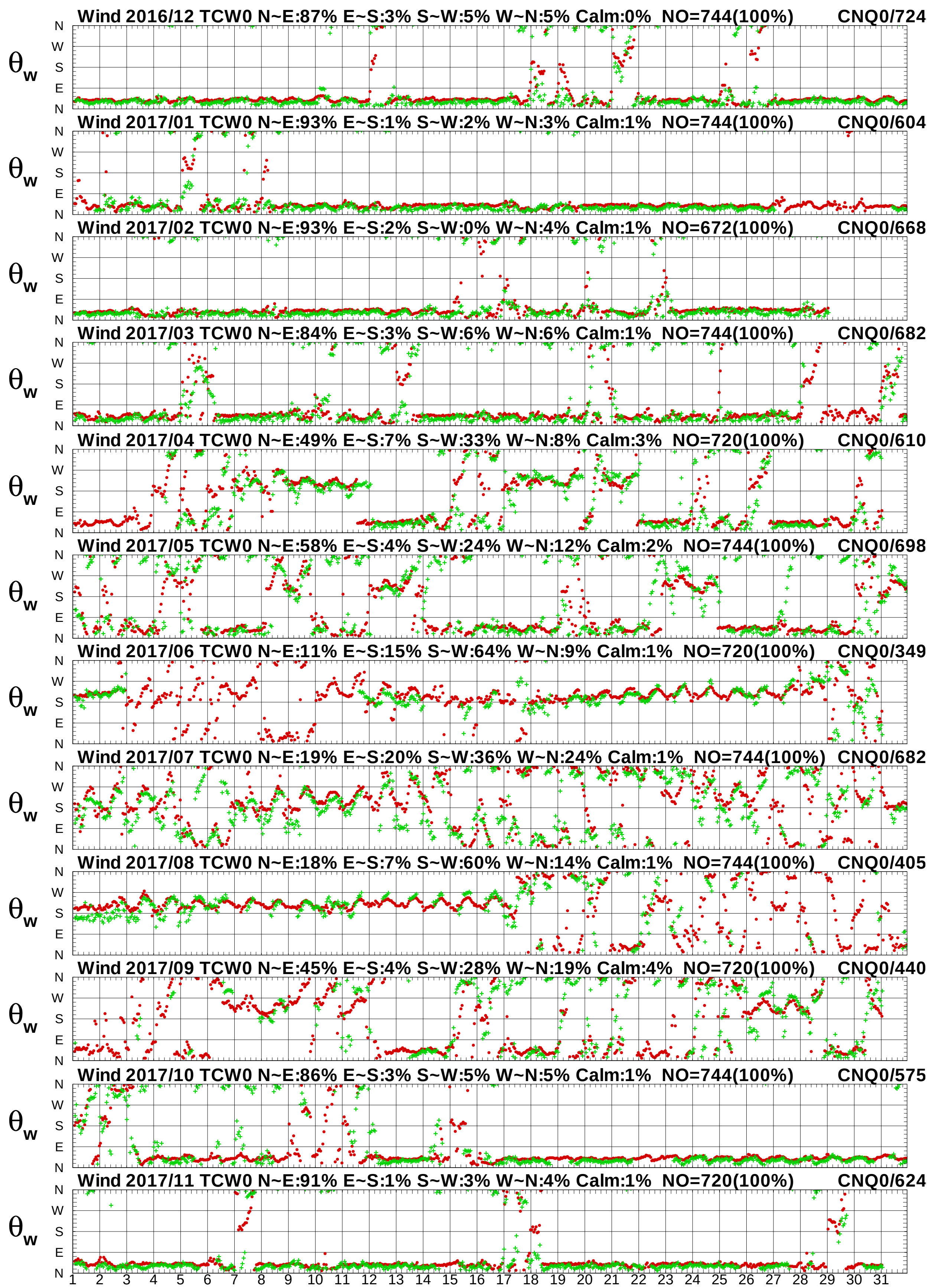

圖1.14b　2017年每月中雲海域 W 站與嘉南海域 Q 站風向圖

W16CTCW0.1HA W16CCNQ0.1H0 W171TCW0.1HA W171CNQ0.1H0 W172TCW0.1HA W172CNQ0.1H0
W173TCW0.1HA W173CNQ0.1H0 W174TCW0.1HA W174CNQ0.1H0 W175TCW0.1HA W175CNQ0.1H0

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Wind Speed in Chung-Yun Seas of TCW0 at 2017

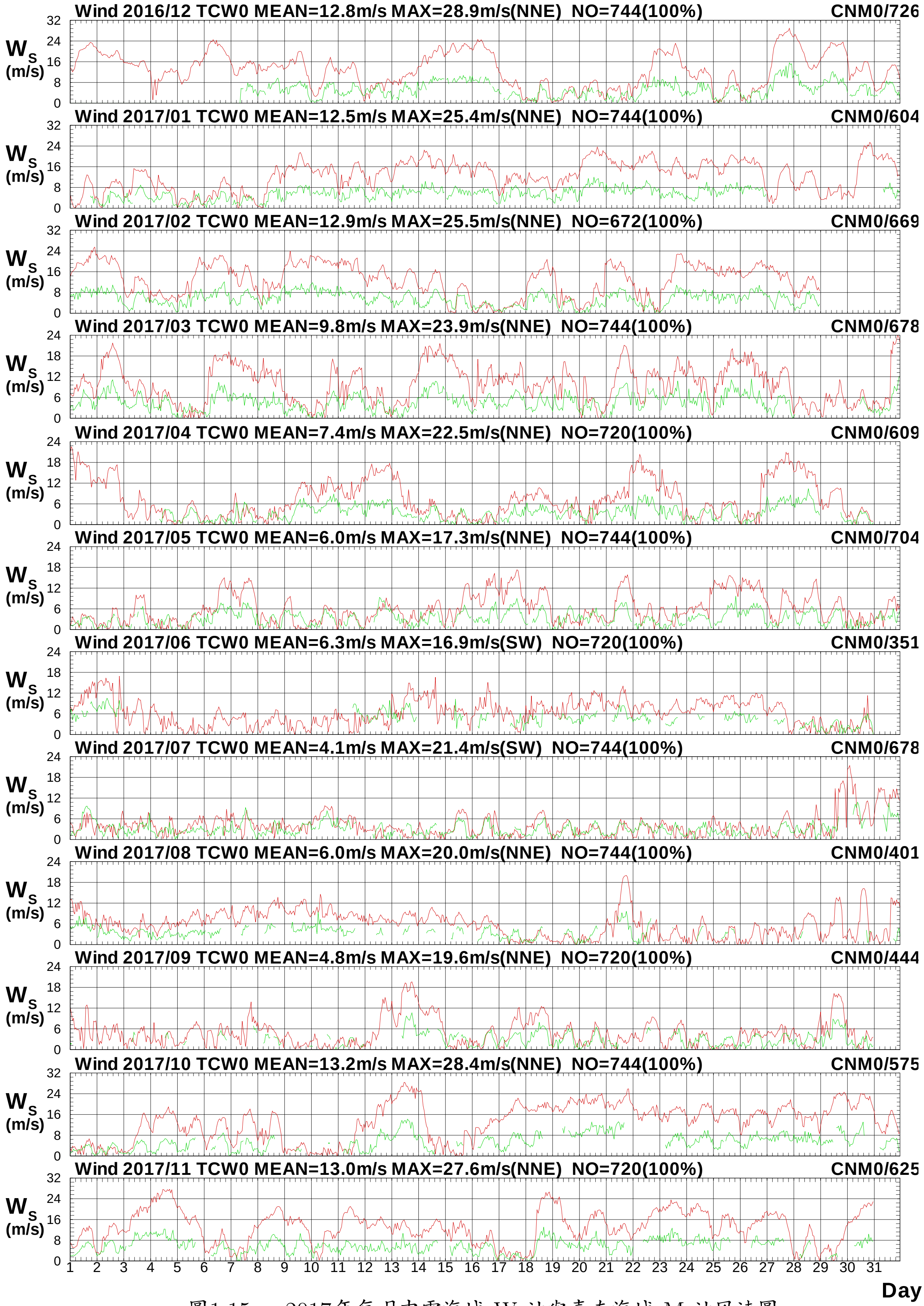

圖1.15a　2017年每月中雲海域 W 站與嘉南海域 M 站風速圖

W16CTCW0.1HA W16CCNM0.1H0 W171TCW0.1HA W171CNM0.1H0 W172TCW0.1HA W172CNM0.1H0
W173TCW0.1HA W173CNM0.1H0 W174TCW0.1HA W174CNM0.1H0 W175TCW0.1HA W175CNM0.1H0

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Wind Direction in Chung-Yun Seas of TCW0 at 2017

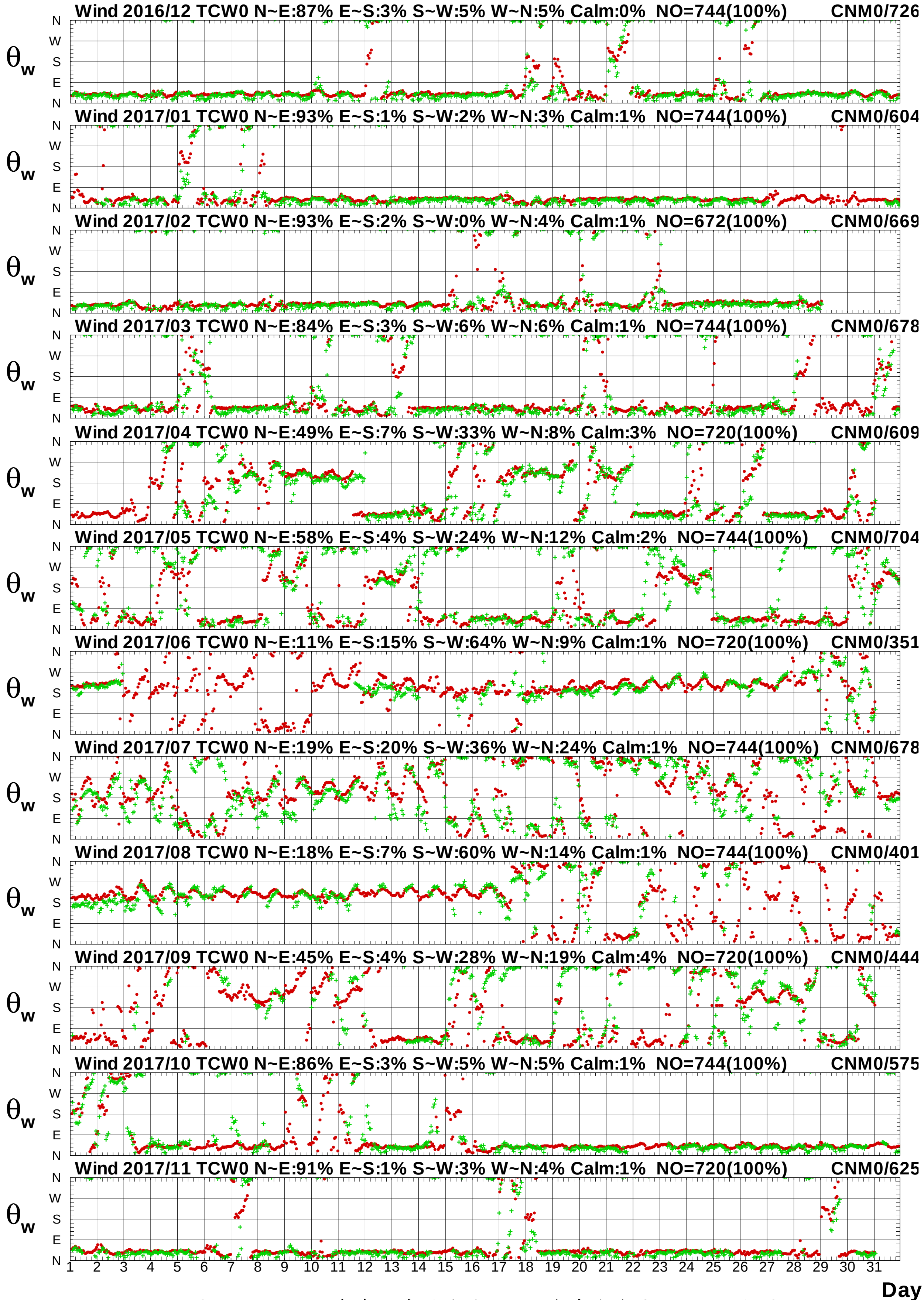

圖1.15b　2017年每月中雲海域 W 站與嘉南海域 M 站風向圖

W16CTCW0.1HA W16CCNM0.1H0 W171TCW0.1HA W171CNM0.1H0 W172TCW0.1HA W172CNM0.1H0
W173TCW0.1HA W173CNM0.1H0 W174TCW0.1HA W174CNM0.1H0 W175TCW0.1HA W175CNM0.1H0

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Wind Speed in Chung-Yun Seas of TCW0 at 2017

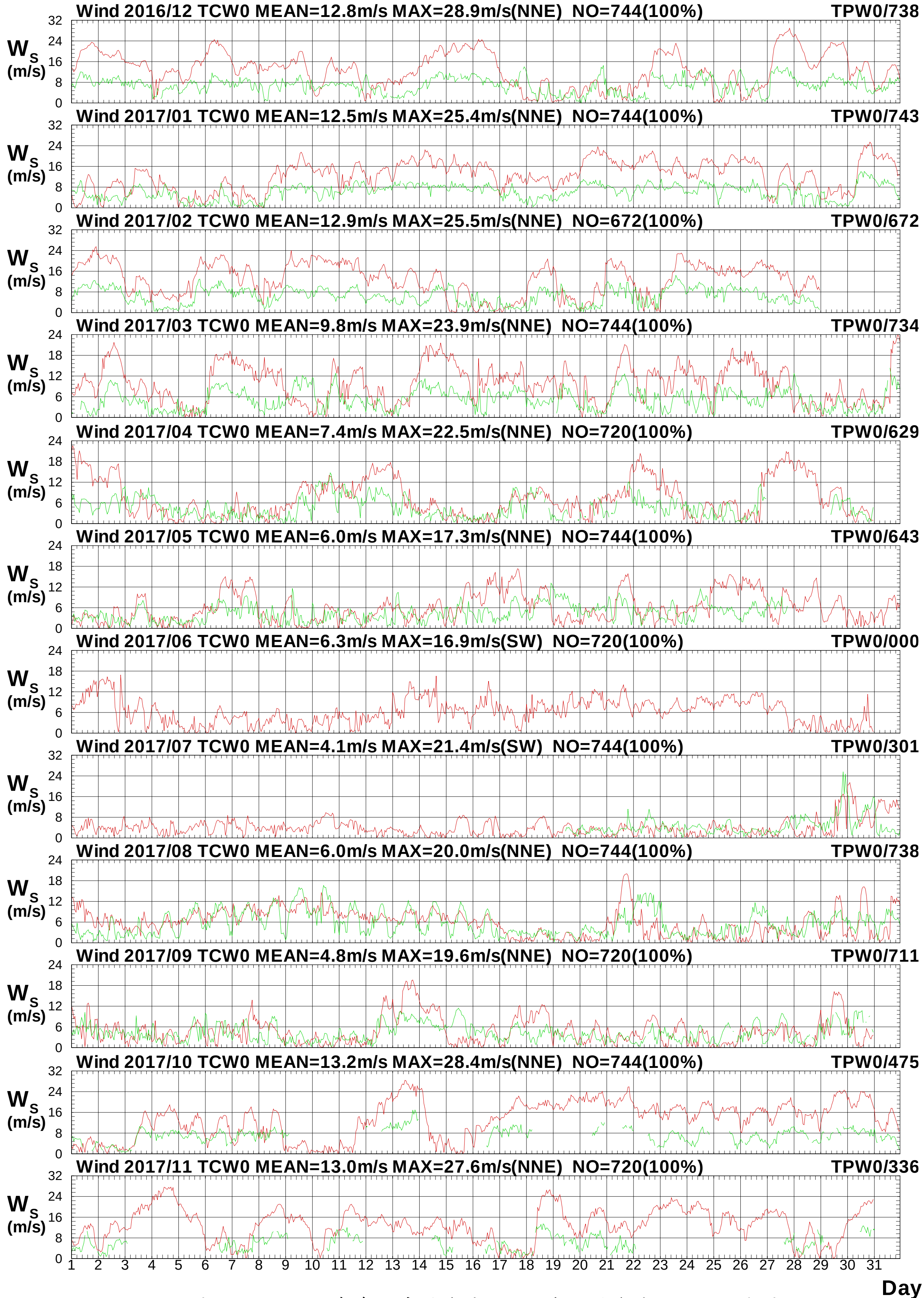

圖1.16a 2017年每月中雲海域 W 站與北苗海域 W 站風速圖

W16CTCW0.1HA W16CTPW0.1H0 W171TCW0.1HA W171TPW0.1H0 W172TCW0.1HA W172TPW0.1H0
W173TCW0.1HA W173TPW0.1H0 W174TCW0.1HA W174TPW0.1H0 W175TCW0.1HA W175TPW0.1H0

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Wind Direction in Chung-Yun Seas of TCW0 at 2017

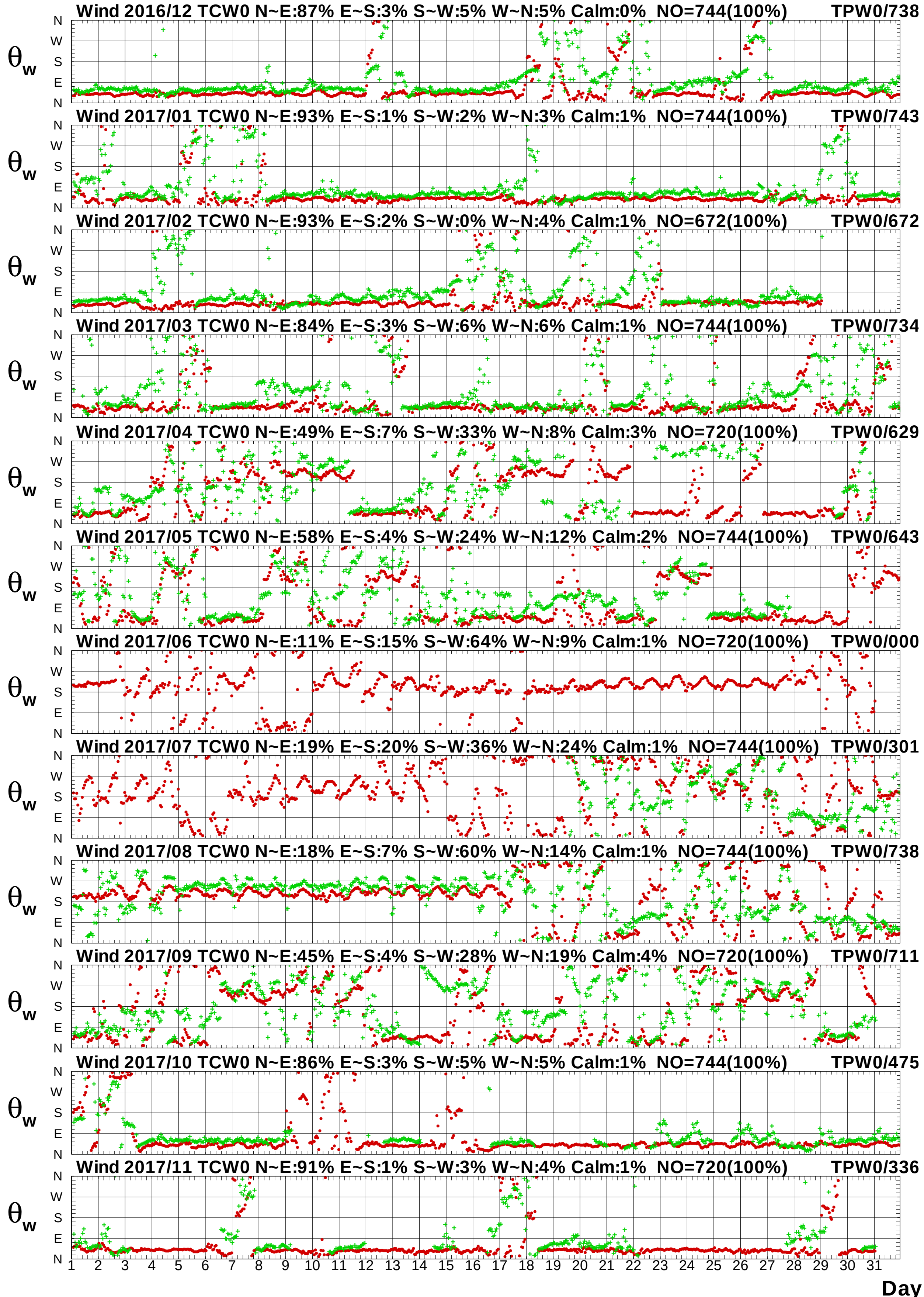

圖1.16b　2017年每月中雲海域 W 站與北苗海域 W 站風向圖

W16CTCW0.1HA W16CTPW0.1H0 W171TCW0.1HA W171TPW0.1H0 W172TCW0.1HA W172TPW0.1H0
W173TCW0.1HA W173TPW0.1H0 W174TCW0.1HA W174TPW0.1H0 W175TCW0.1HA W175TPW0.1H0

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Wind Speed in Chung-Yun Seas of TCW0 at 2017

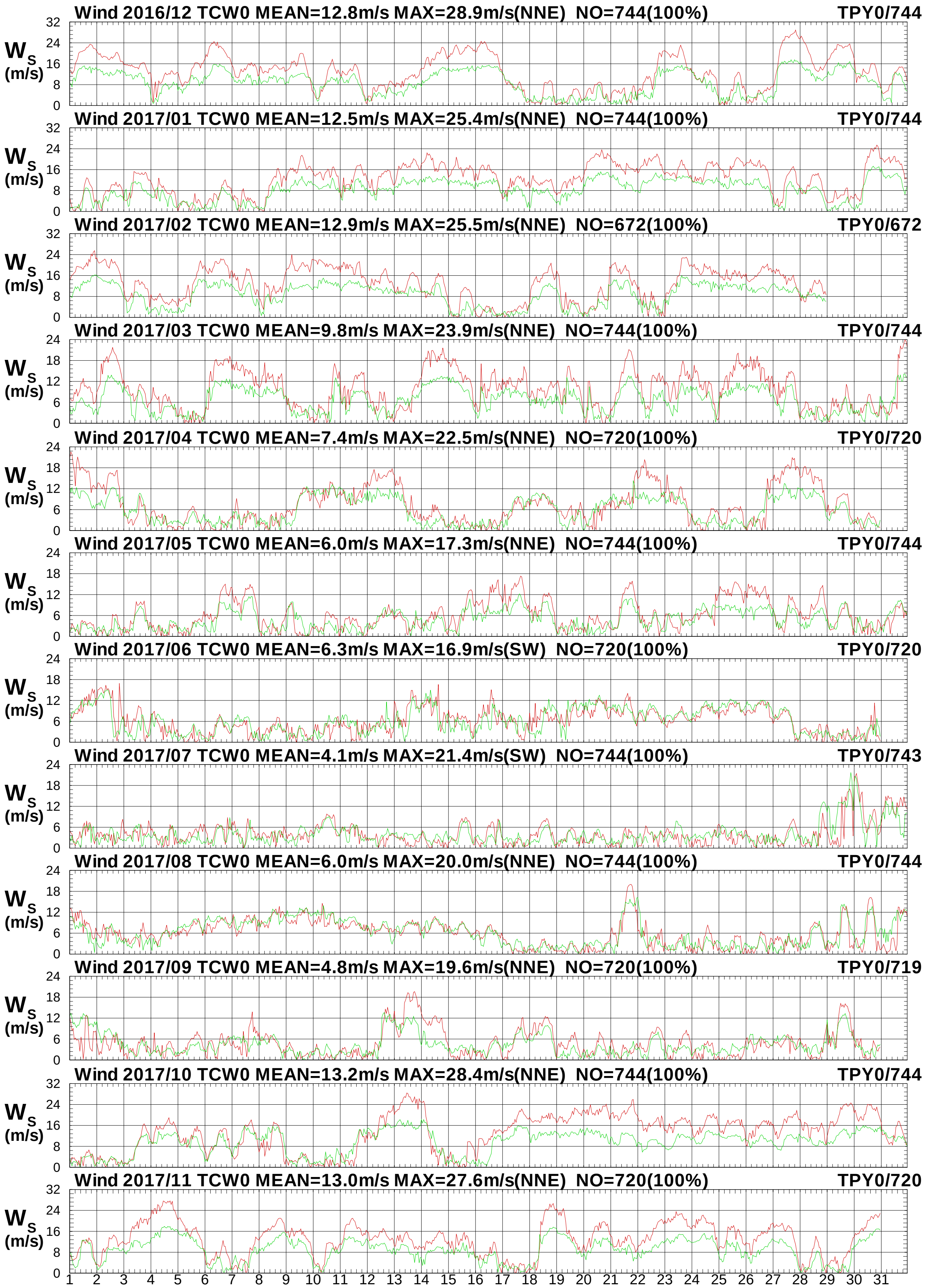

圖1.17a　2017年每月中雲海域 W 站與北苗海域 Y 站風速圖

W16CTCW0.1HA W16CTPY0.1H0 W171TCW0.1HA W171TPY0.1H0 W172TCW0.1HA W172TPY0.1H0 W173TCW0.1HA W173TPY0.1H0 W174TCW0.1HA W174TPY0.1H0 W175TCW0.1HA W175TPY0.1H0	Institute of Harbor & Marine Technology

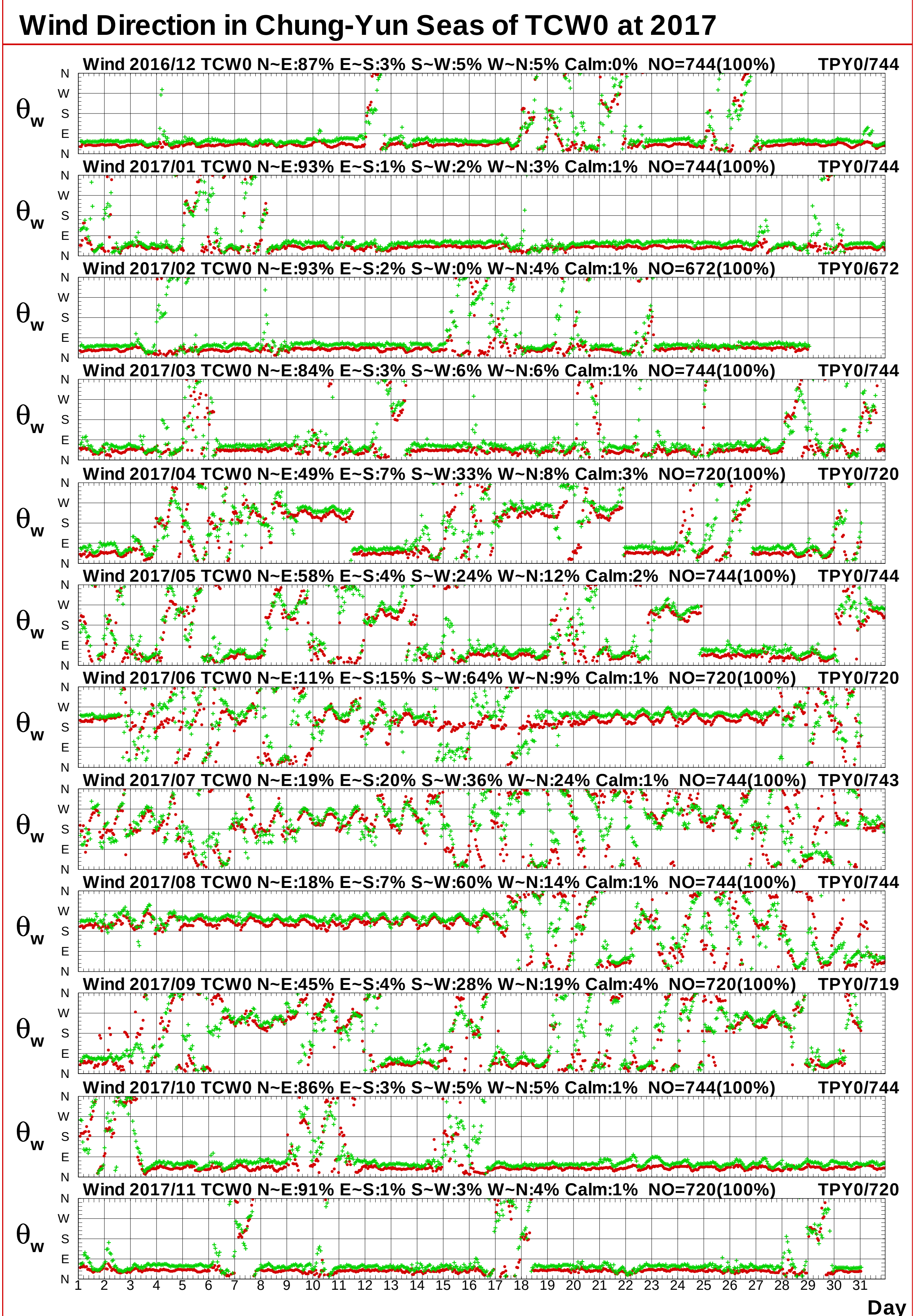

圖1.17b　2017年每月中雲海域 W 站與北苗海域 Y 站風向圖

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

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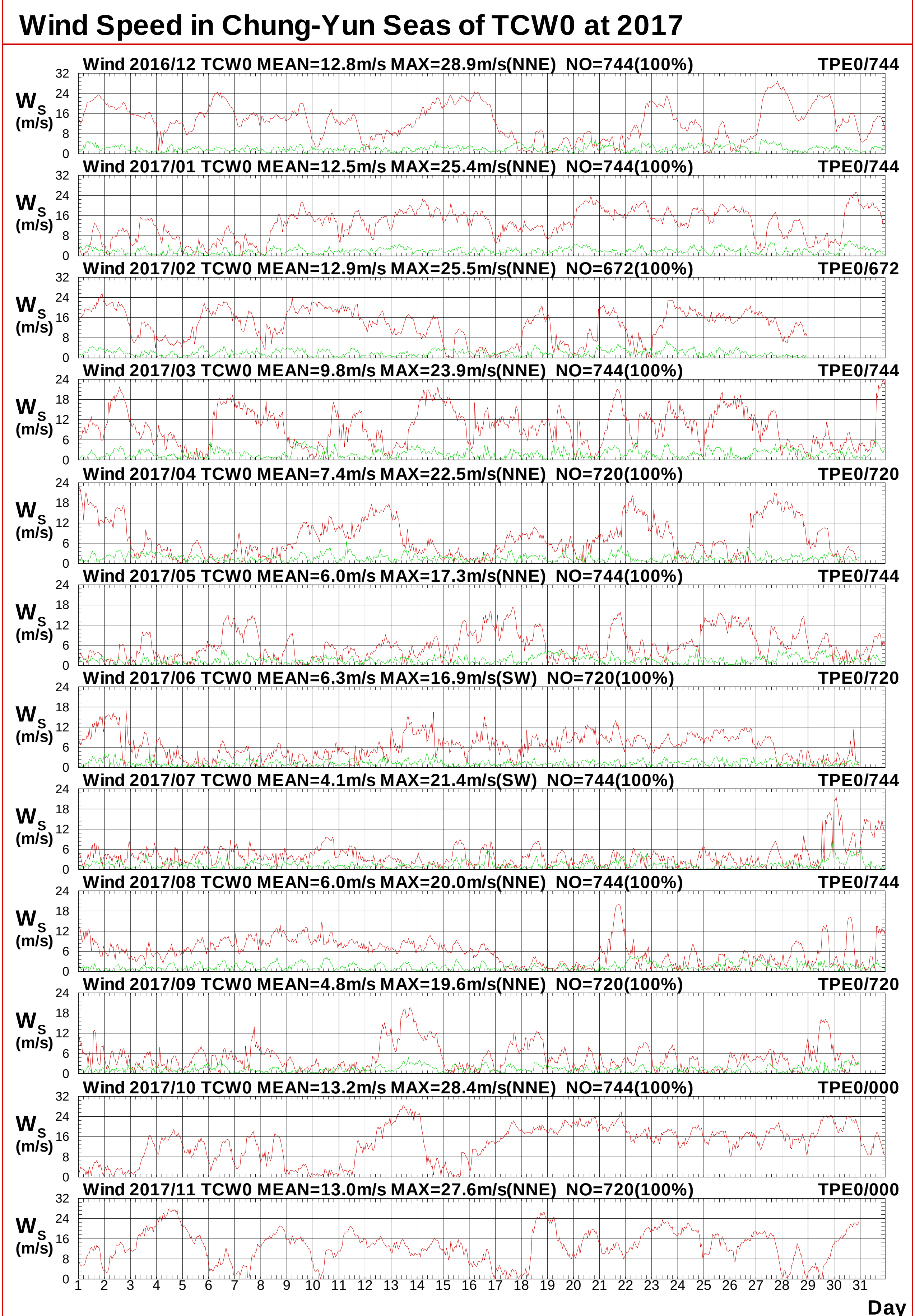

圖1.18a　2017年每月中雲海域 W 站與北苗海域 E 站風速圖

W16CTCW0.1HA W16CTPE0.1H0 W171TCW0.1HA W171TPE0.1H0 W172TCW0.1HA W172TPE0.1H0 W173TCW0.1HA W173TPE0.1H0 W174TCW0.1HA W174TPE0.1H0 W175TCW0.1HA W175TPE0.1H0	Institute of Harbor & Marine Technology

Wind Direction in Chung-Yun Seas of TCW0 at 2017

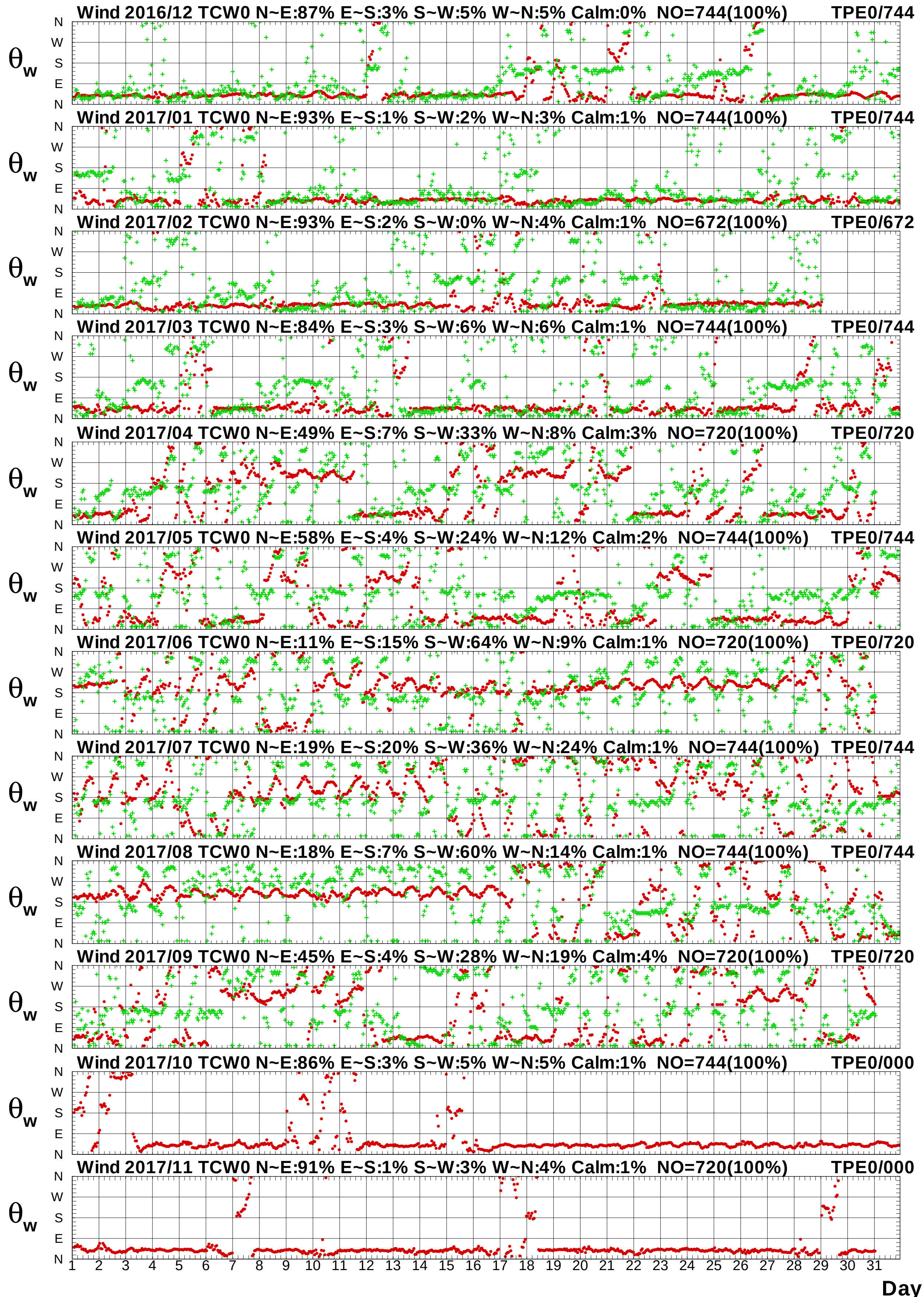

圖1.18b　2017年每月中雲海域 W 站與北苗海域 E 站風向圖

W16CTCW0.1HA W16CTPE0.1H0 W171TCW0.1HA W171TPE0.1H0 W172TCW0.1HA W172TPE0.1H0 W173TCW0.1HA W173TPE0.1H0 W174TCW0.1HA W174TPE0.1H0 W175TCW0.1HA W175TPE0.1H0	Institute of Harbor & Marine Technology

Wind Speed in Chung-Yun Seas of TCW0 at 2017

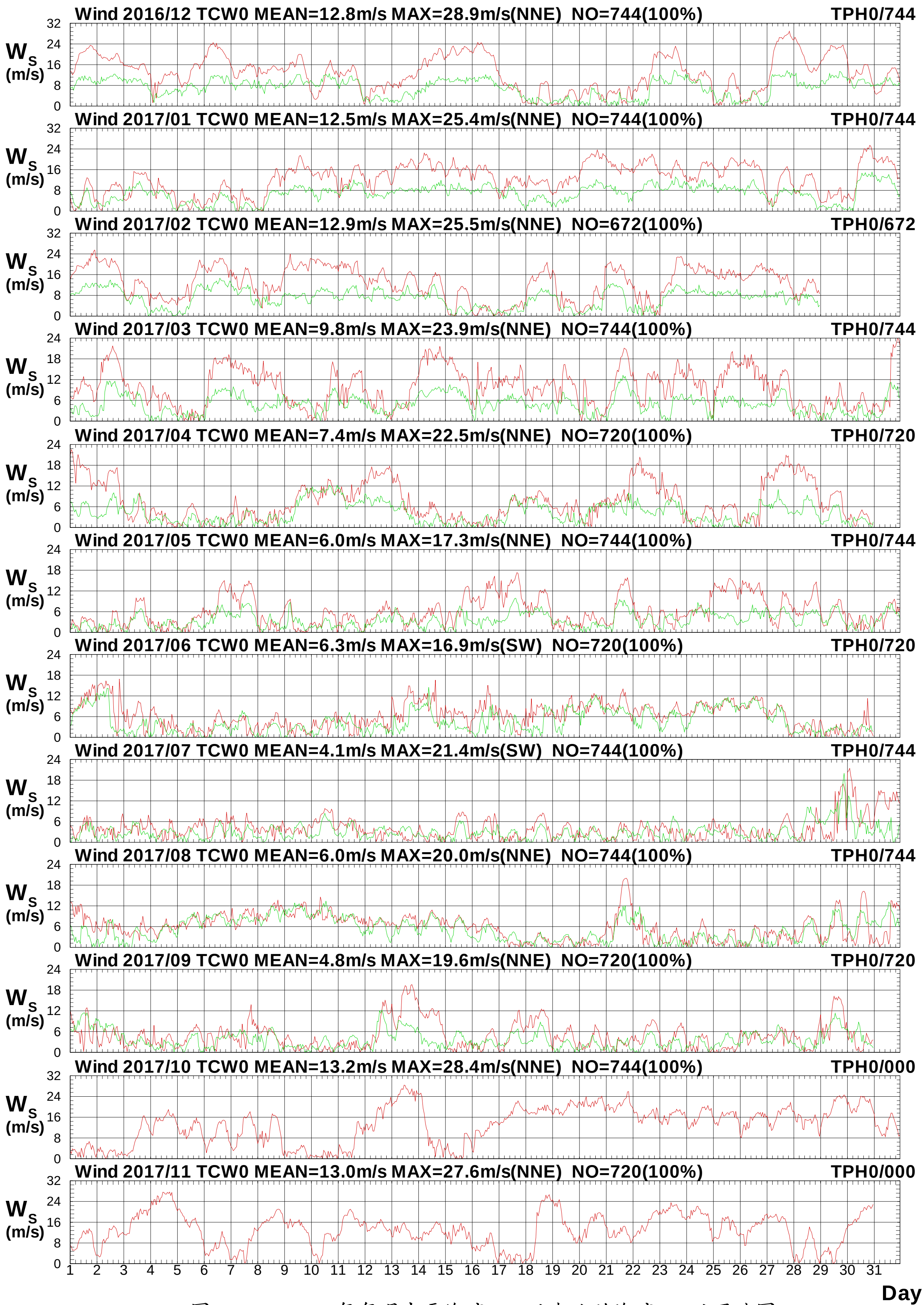

圖1.19a　2017年每月中雲海域 W 站與北苗海域 H 站風速圖

W16CTCW0.1HA W16CTPH0.1H0 W171TCW0.1HA W171TPH0.1H0 W172TCW0.1HA W172TPH0.1H0 W173TCW0.1HA W173TPH0.1H0 W174TCW0.1HA W174TPH0.1H0 W175TCW0.1HA W175TPH0.1H0	Institute of Harbor & Marine Technology

Wind Direction in Chung-Yun Seas of TCW0 at 2017

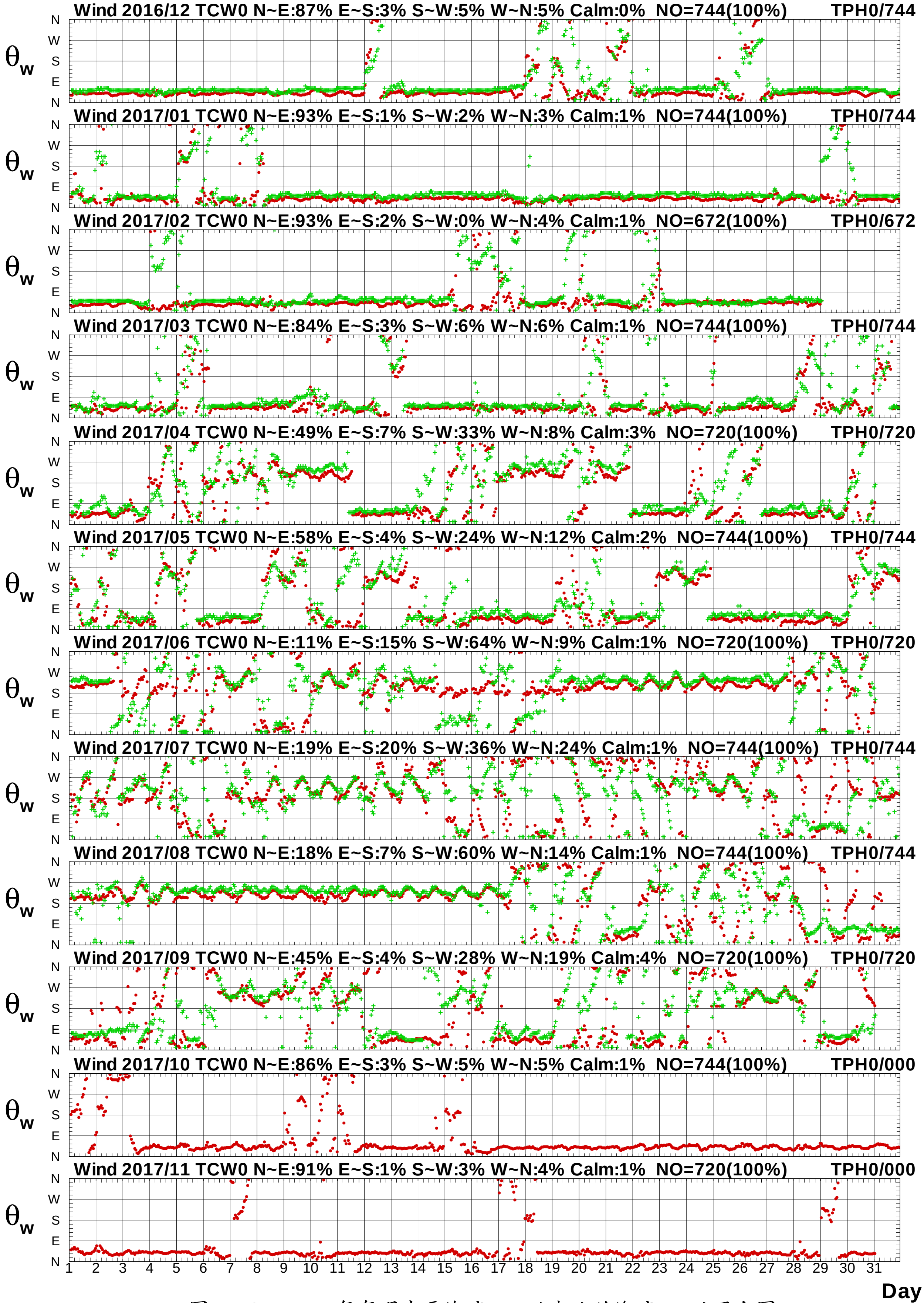

圖1.19b　2017年每月中雲海域 W 站與北苗海域 H 站風向圖

W16CTCW0.1HA W16CTPH0.1H0 W171TCW0.1HA W171TPH0.1H0 W172TCW0.1HA W172TPH0.1H0 W173TCW0.1HA W173TPH0.1H0 W174TCW0.1HA W174TPH0.1H0 W175TCW0.1HA W175TPH0.1H0	Institute of Harbor & Marine Technology

Wind Speed in Chung-Yun Seas of TCY0 at 2017

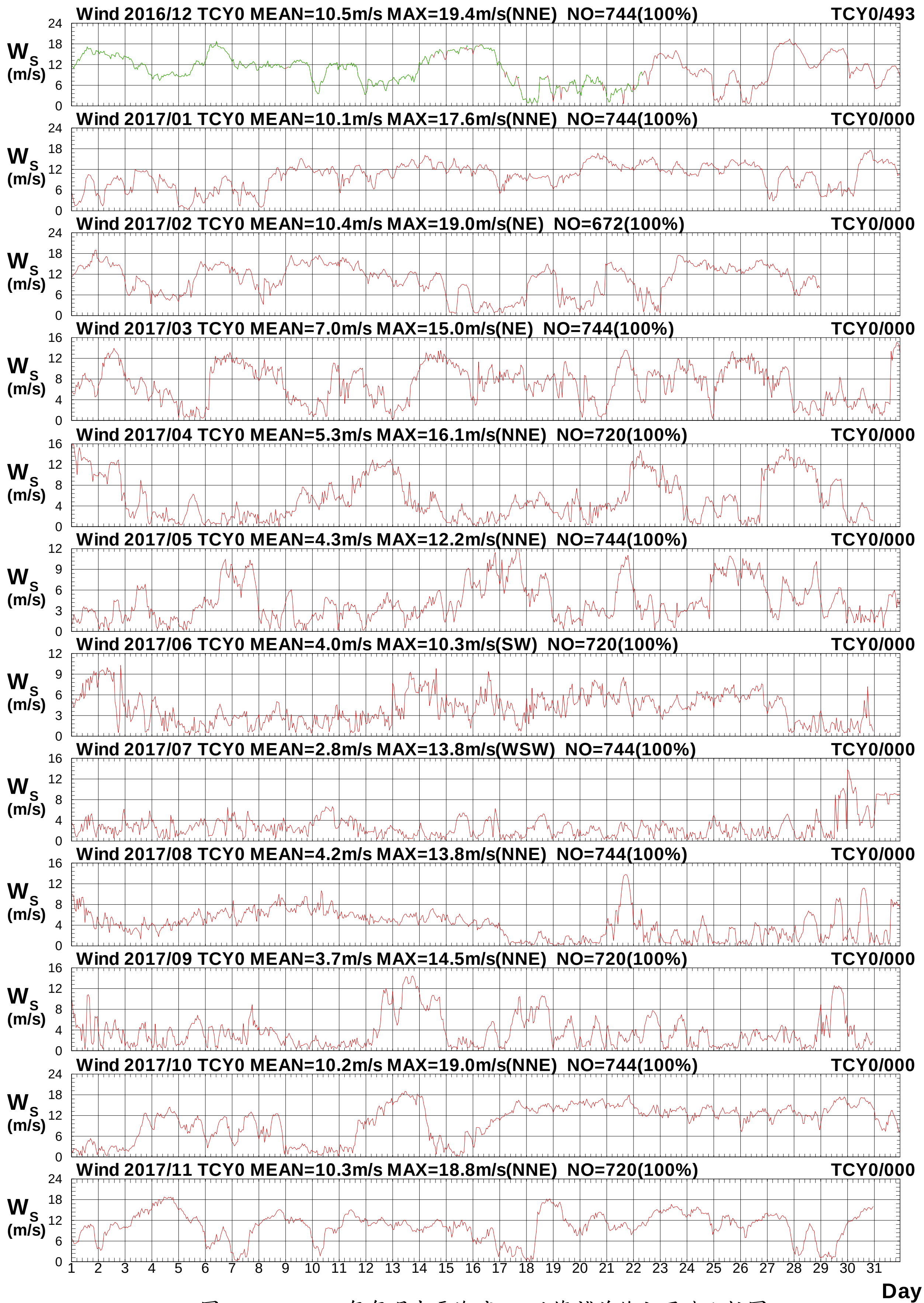

圖1.20a　2017年每月中雲海域 Y 站修補前後之風速比較圖

W16CTCY0.1HA W16CTCY0.1H0 W171TCY0.1HA W171TCY0.1H0 W172TCY0.1HA W172TCY0.1H0
W173TCY0.1HA W173TCY0.1H0 W174TCY0.1HA W174TCY0.1H0 W175TCY0.1HA W175TCY0.1H0

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Wind Direction in Chung-Yun Seas of TCY0 at 2017

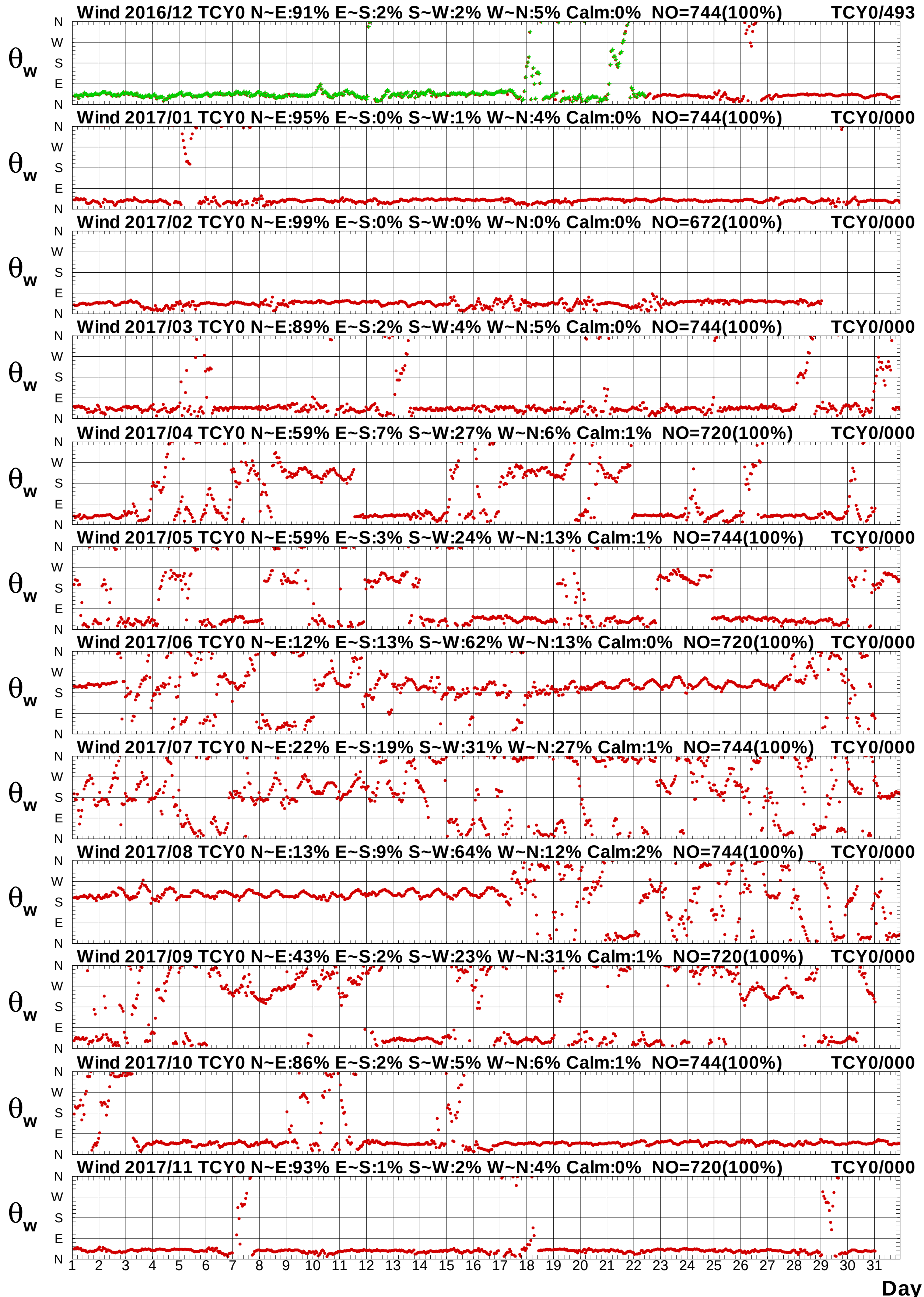

圖1.20b 2017年每月中雲海域 Y 站修補前後之風向比較圖

W16CTCY0.1HA W16CTCY0.1H0 W171TCY0.1HA W171TCY0.1H0 W172TCY0.1HA W172TCY0.1H0 W173TCY0.1HA W173TCY0.1H0 W174TCY0.1HA W174TCY0.1H0 W175TCY0.1HA W175TCY0.1H0	Institute of Harbor & Marine Technology

Wind Speed in Chung-Yun Seas of TCY0 at 2017

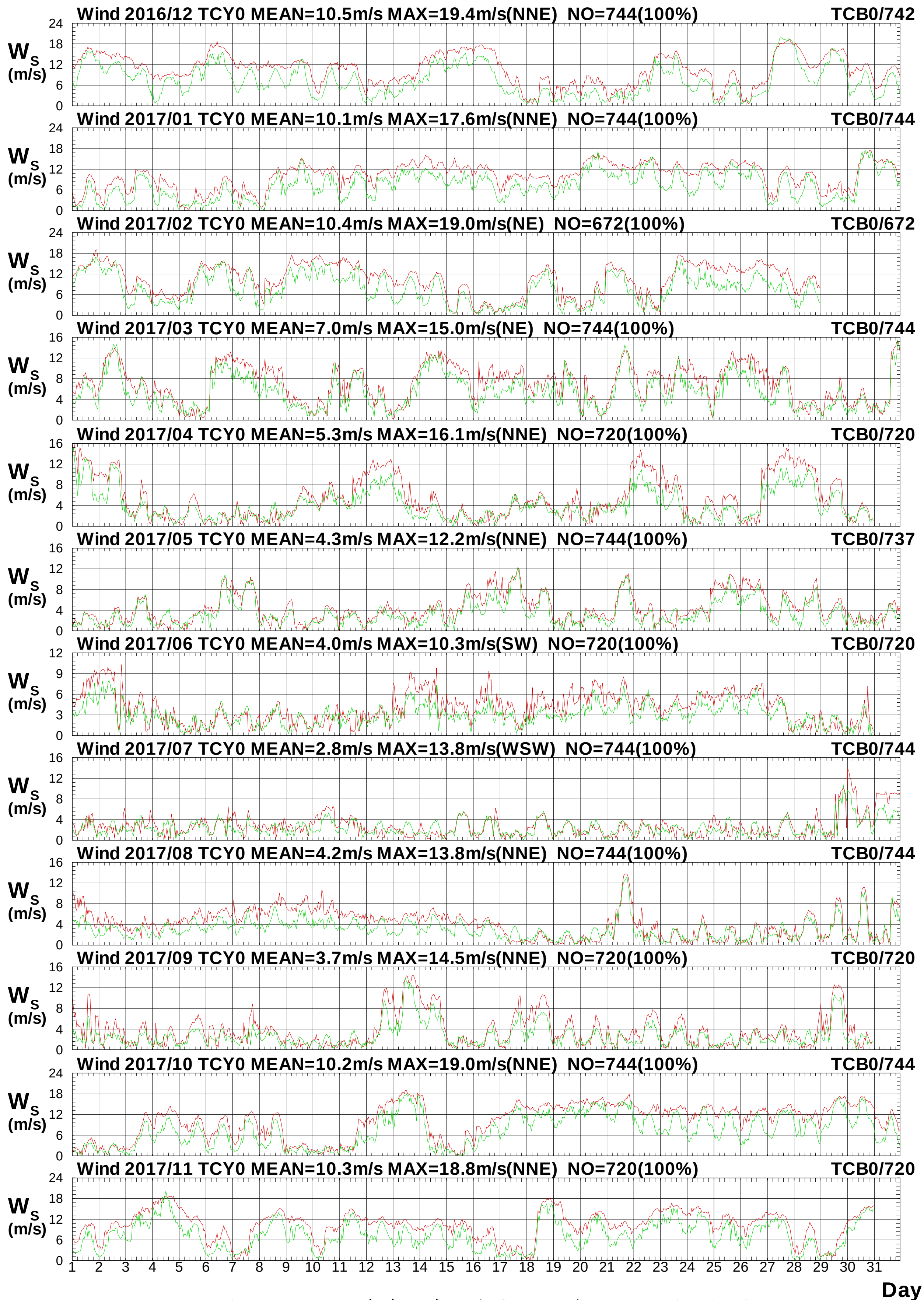

圖1.21a　2017年每月中雲海域 Y 站與 B 站風速比較圖

W16CTCY0.1HA W16CTCB0.1H0 W171TCY0.1HA W171TCB0.1H0 W172TCY0.1HA W172TCB0.1H0
W173TCY0.1HA W173TCB0.1H0 W174TCY0.1HA W174TCB0.1H0 W175TCY0.1HA W175TCB0.1H0

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Wind Direction in Chung-Yun Seas of TCY0 at 2017

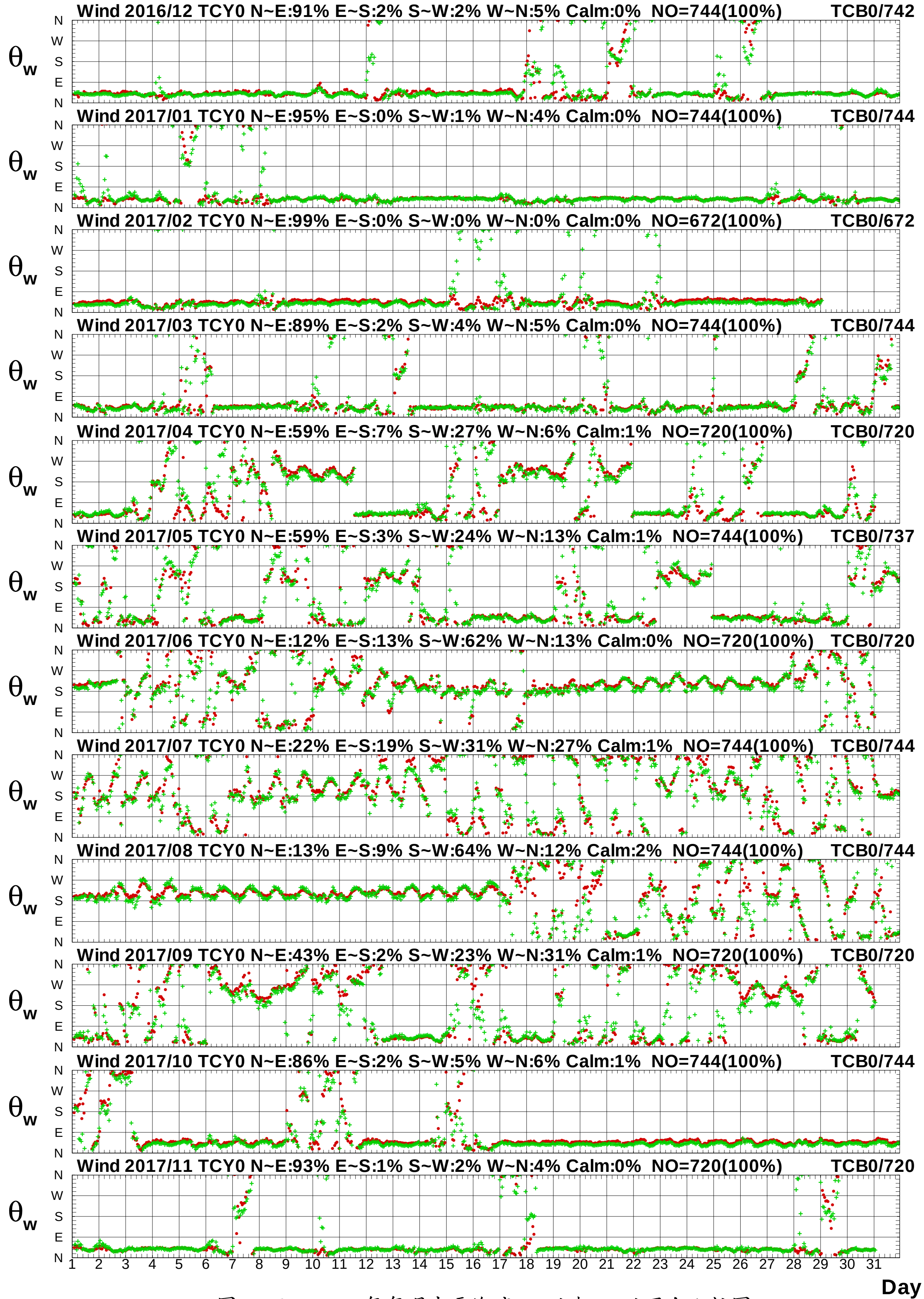

圖1.21b　2017年每月中雲海域 Y 站與 B 站風向比較圖

W16CTCY0.1HA W16CTCB0.1H0 W171TCY0.1HA W171TCB0.1H0 W172TCY0.1HA W172TCB0.1H0
W173TCY0.1HA W173TCB0.1H0 W174TCY0.1HA W174TCB0.1H0 W175TCY0.1HA W175TCB0.1H0

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Wind Speed in Chung-Yun Seas of TCY0 at 2017

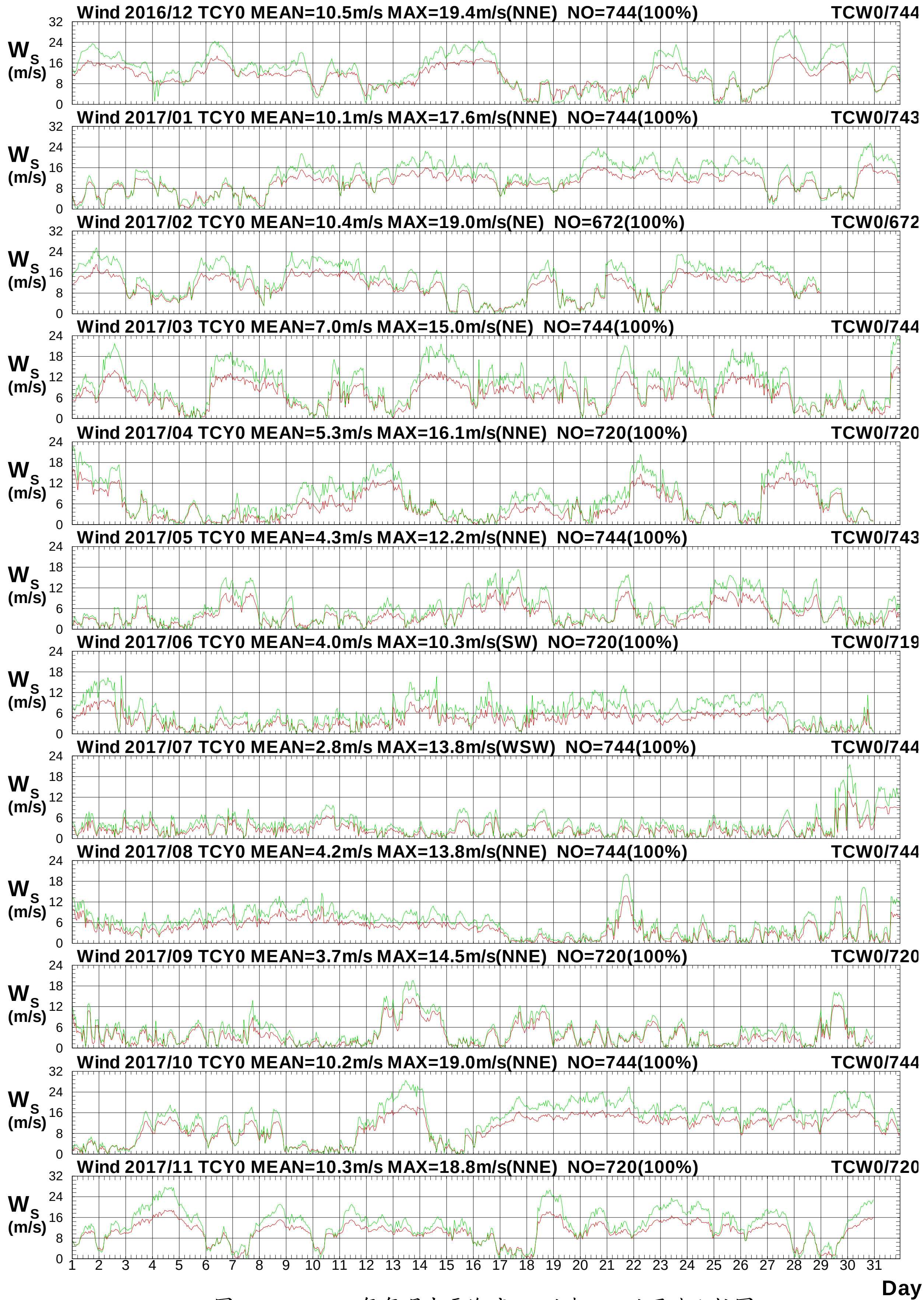

圖1.22a　2017年每月中雲海域 Y 站與 W 站風速比較圖

W16CTCY0.1HA W16CTCW0.1H0 W171TCY0.1HA W171TCW0.1H0 W172TCY0.1HA W172TCW0.1H0
W173TCY0.1HA W173TCW0.1H0 W174TCY0.1HA W174TCW0.1H0 W175TCY0.1HA W175TCW0.1H0

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Wind Direction in Chung-Yun Seas of TCY0 at 2017

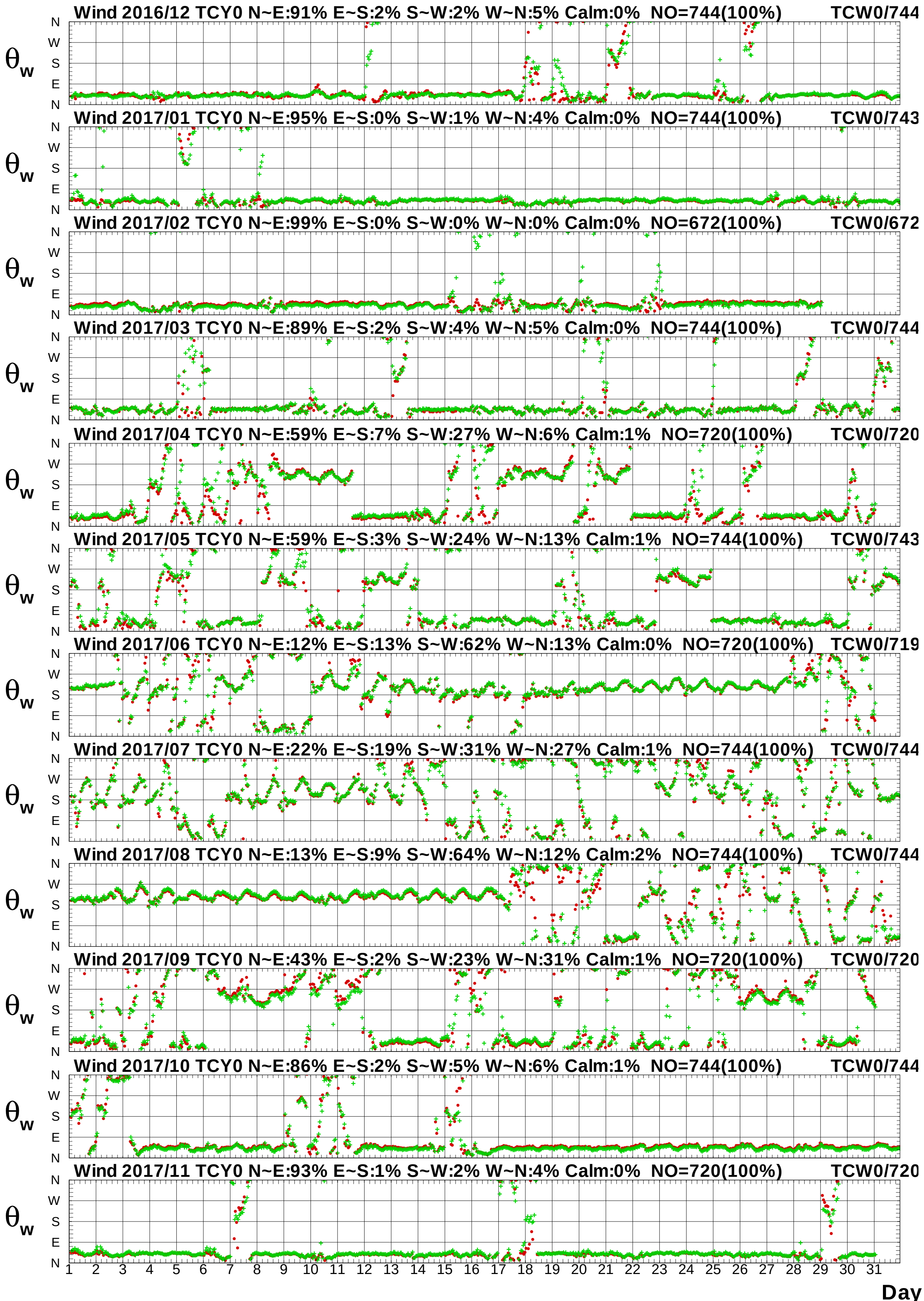

圖1.22b　2017年每月中雲海域 Y 站與 W 站風向比較圖

W16CTCY0.1HA W16CTCW0.1H0 W171TCY0.1HA W171TCW0.1H0 W172TCY0.1HA W172TCW0.1H0
W173TCY0.1HA W173TCW0.1H0 W174TCY0.1HA W174TCW0.1H0 W175TCY0.1HA W175TCW0.1H0

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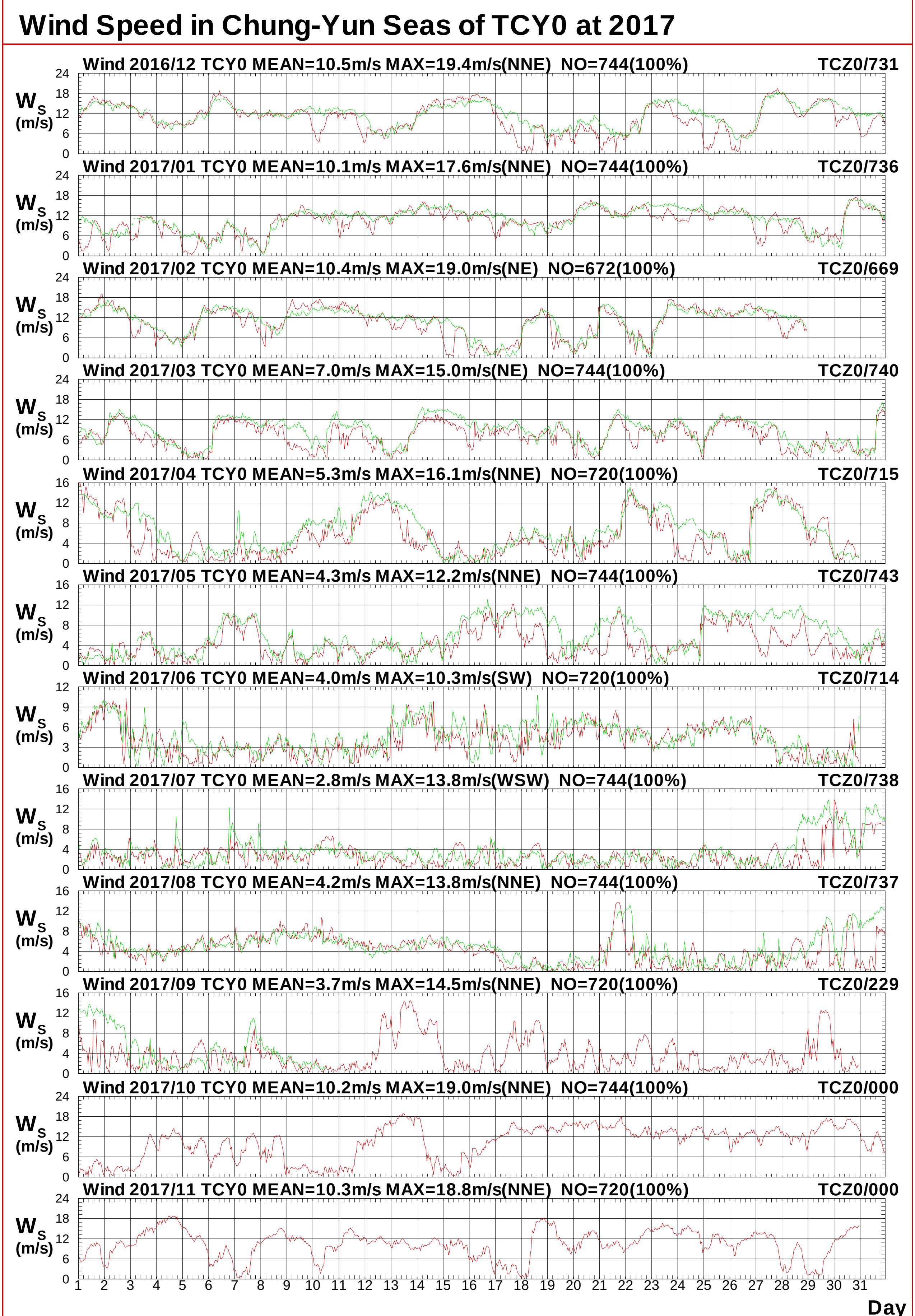

圖1.23a　2017年每月中雲海域 Y 站與 Z 站風速比較圖

W16CTCY0.1HA W16CTCZ0.1H0 W171TCY0.1HA W171TCZ0.1H0 W172TCY0.1HA W172TCZ0.1H0 W173TCY0.1HA W173TCZ0.1H0 W174TCY0.1HA W174TCZ0.1H0 W175TCY0.1HA W175TCZ0.1H0	Institute of Harbor & Marine Technology

Wind Direction in Chung-Yun Seas of TCY0 at 2017

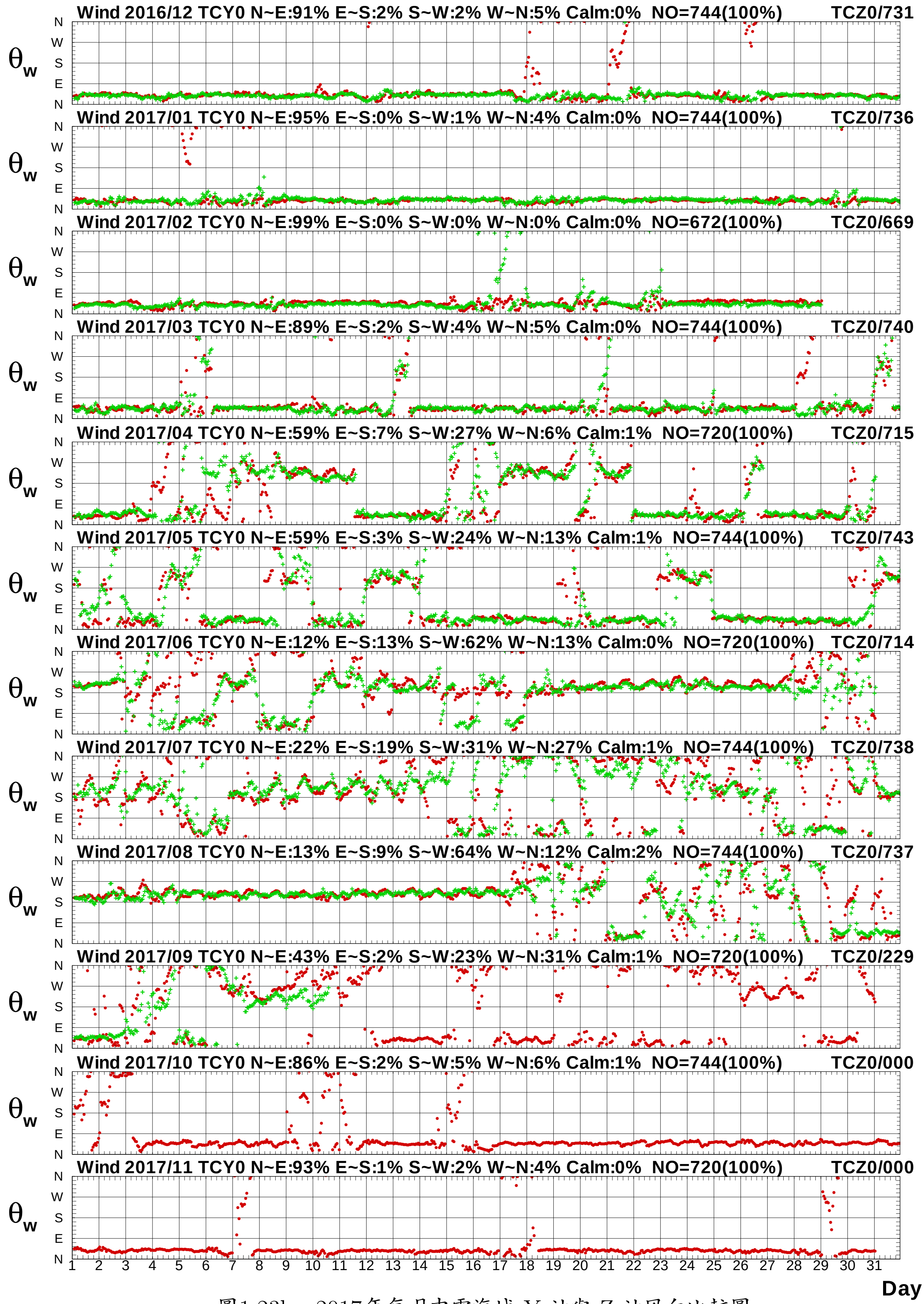

圖1.23b 2017年每月中雲海域 Y 站與 Z 站風向比較圖

W16CTCY0.1HA W16CTCZ0.1H0 W171TCY0.1HA W171TCZ0.1H0 W172TCY0.1HA W172TCZ0.1H0 W173TCY0.1HA W173TCZ0.1H0 W174TCY0.1HA W174TCZ0.1H0 W175TCY0.1HA W175TCZ0.1H0	Institute of Harbor & Marine Technology

Wind Speed in Chung-Yun Seas of TCY0 at 2017

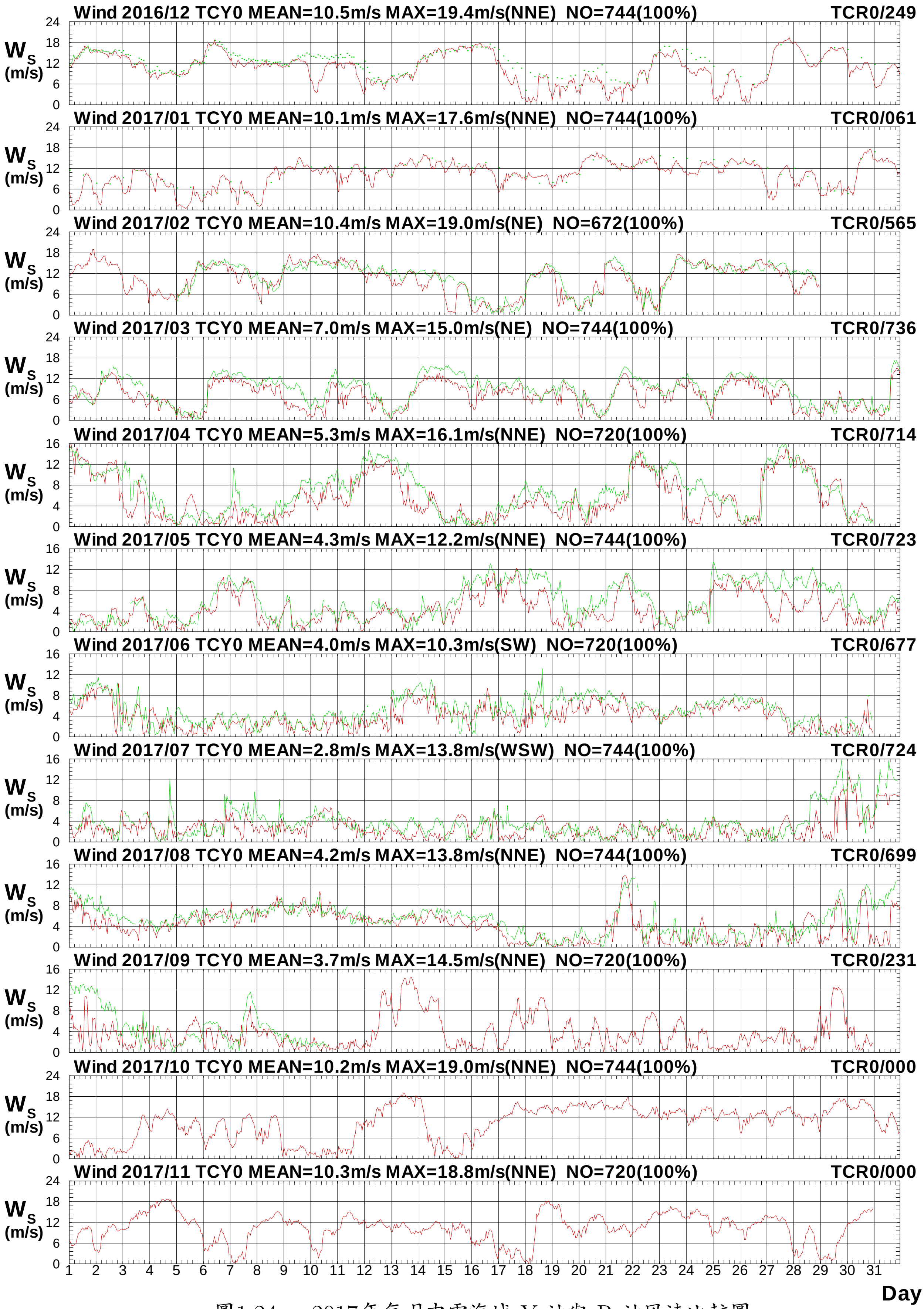

圖1.24a　2017年每月中雲海域 Y 站與 R 站風速比較圖

W16CTCY0.1HA W16CTCR0.1H0 W171TCY0.1HA W171TCR0.1H0 W172TCY0.1HA W172TCR0.1H0 W173TCY0.1HA W173TCR0.1H0 W174TCY0.1HA W174TCR0.1H0 W175TCY0.1HA W175TCR0.1H0	Institute of Harbor & Marine Technology

Wind Direction in Chung-Yun Seas of TCY0 at 2017

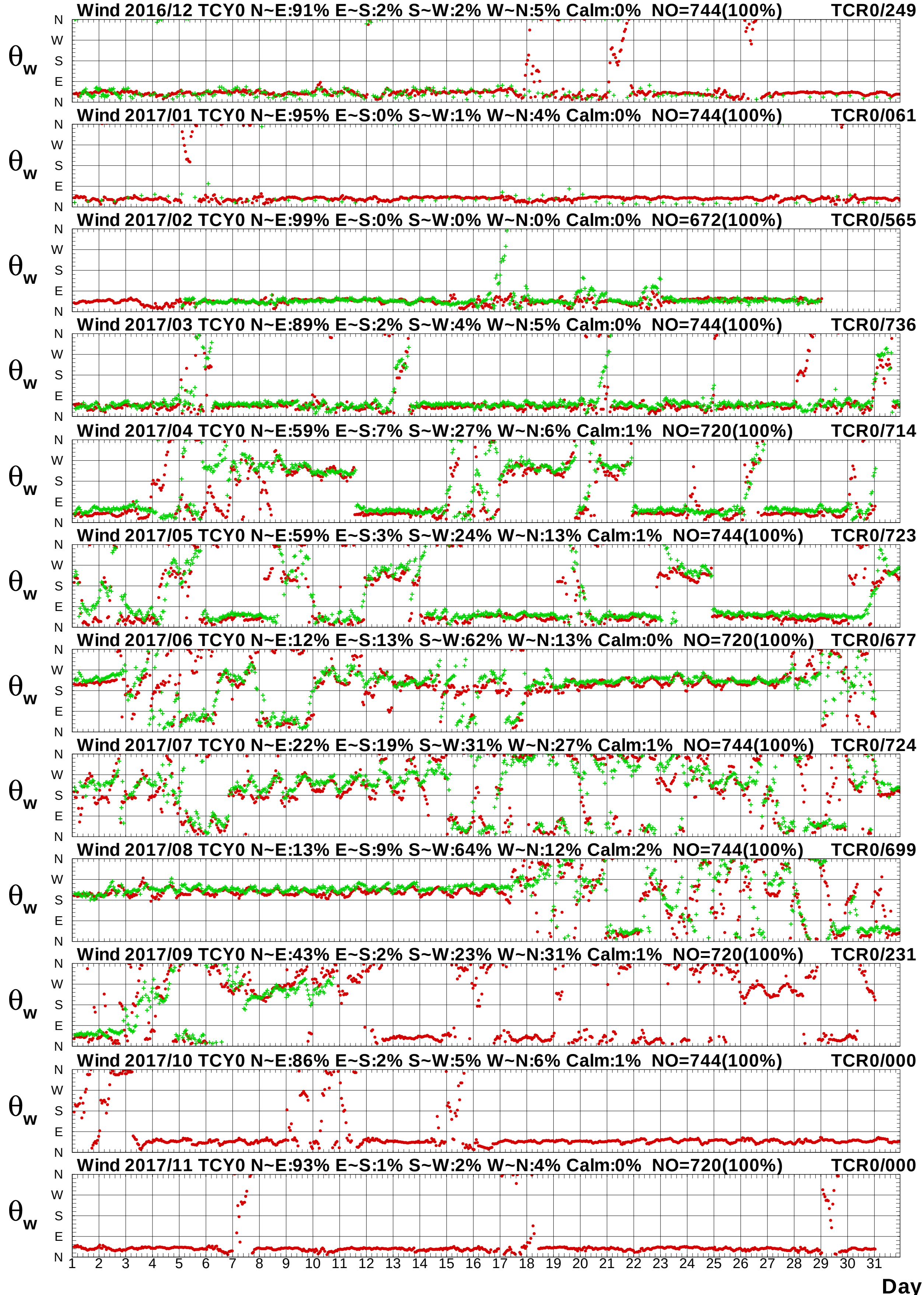

圖1.24b　2017年每月中雲海域 Y 站與 R 站風向比較圖

W16CTCY0.1HA W16CTCR0.1H0 W171TCY0.1HA W171TCR0.1H0 W172TCY0.1HA W172TCR0.1H0
W173TCY0.1HA W173TCR0.1H0 W174TCY0.1HA W174TCR0.1H0 W175TCY0.1HA W175TCR0.1H0

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Wind Speed in Chung-Yun Seas of TCY0 at 2017

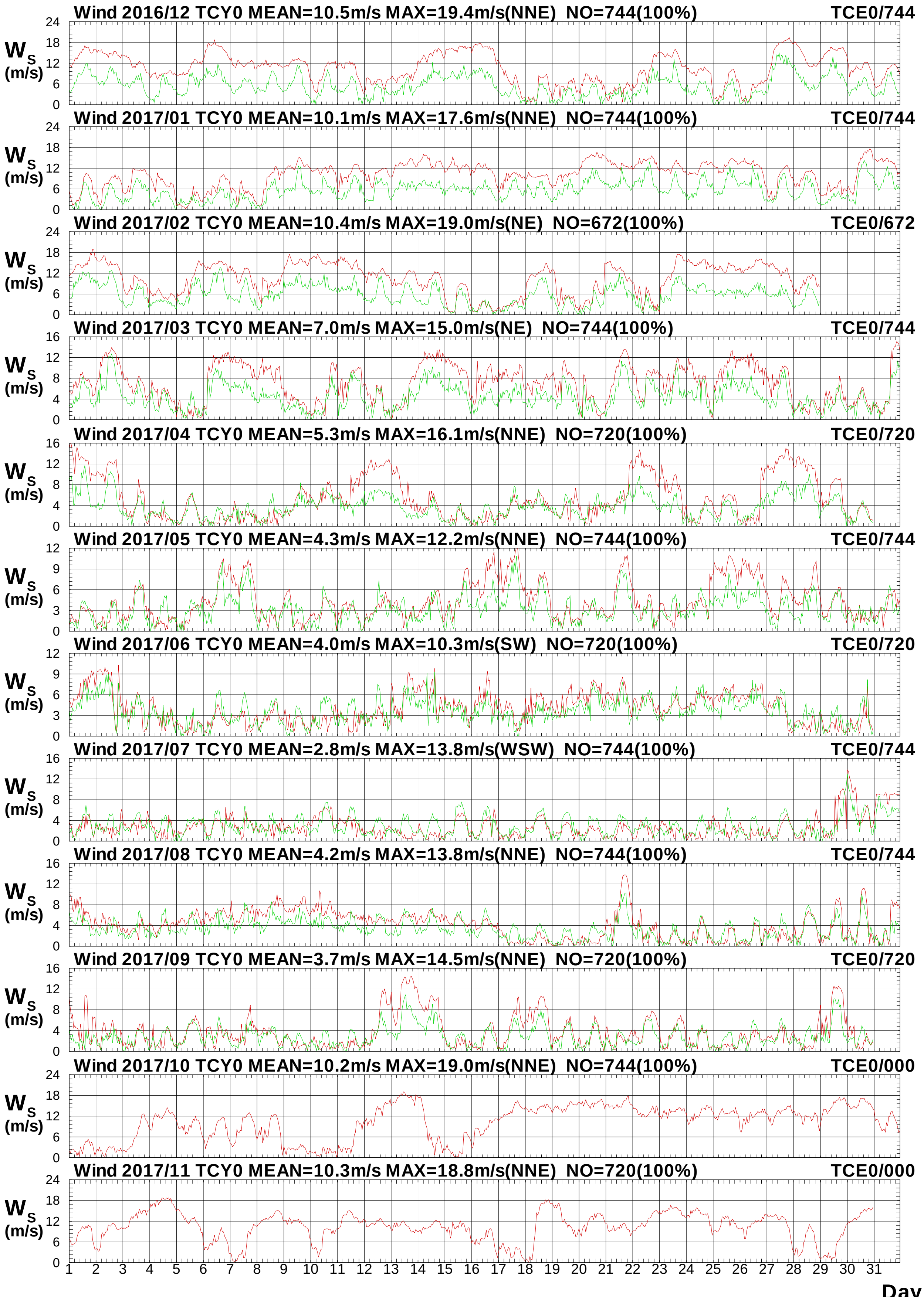

圖1.25a　2017年每月中雲海域 Y 站與 E 站風速比較圖

W16CTCY0.1HA W16CTCE0.1H0 W171TCY0.1HA W171TCE0.1H0 W172TCY0.1HA W172TCE0.1H0 W173TCY0.1HA W173TCE0.1H0 W174TCY0.1HA W174TCE0.1H0 W175TCY0.1HA W175TCE0.1H0	Institute of Harbor & Marine Technology

Wind Direction in Chung-Yun Seas of TCY0 at 2017

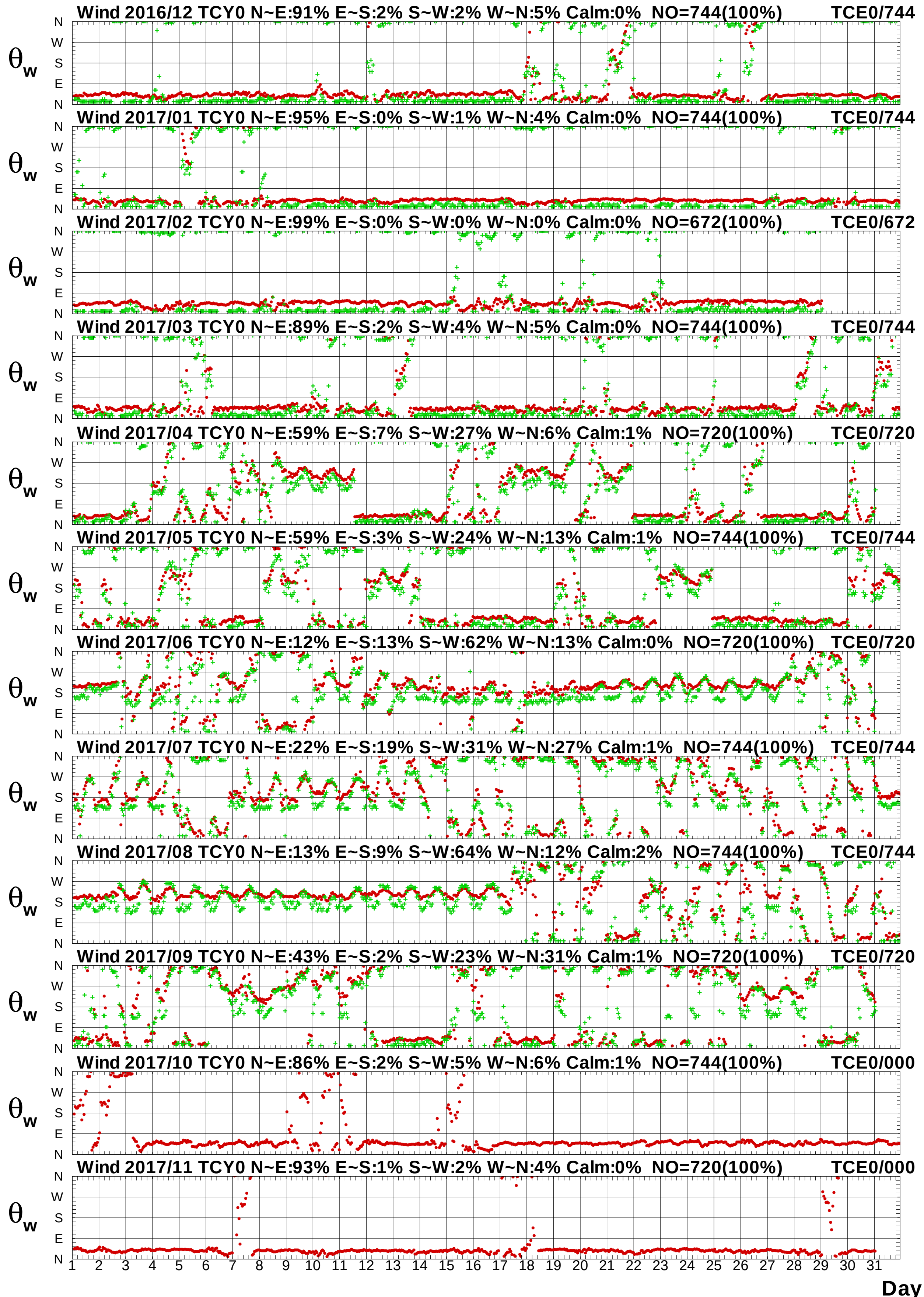

圖1.25b 2017年每月中雲海域 Y 站與 E 站風向比較圖

W16CTCY0.1HA W16CTCE0.1H0 W171TCY0.1HA W171TCE0.1H0 W172TCY0.1HA W172TCE0.1H0 W173TCY0.1HA W173TCE0.1H0 W174TCY0.1HA W174TCE0.1H0 W175TCY0.1HA W175TCE0.1H0	Institute of Harbor & Marine Technology

Wind Speed in Chung-Yun Seas of TCY0 at 2017

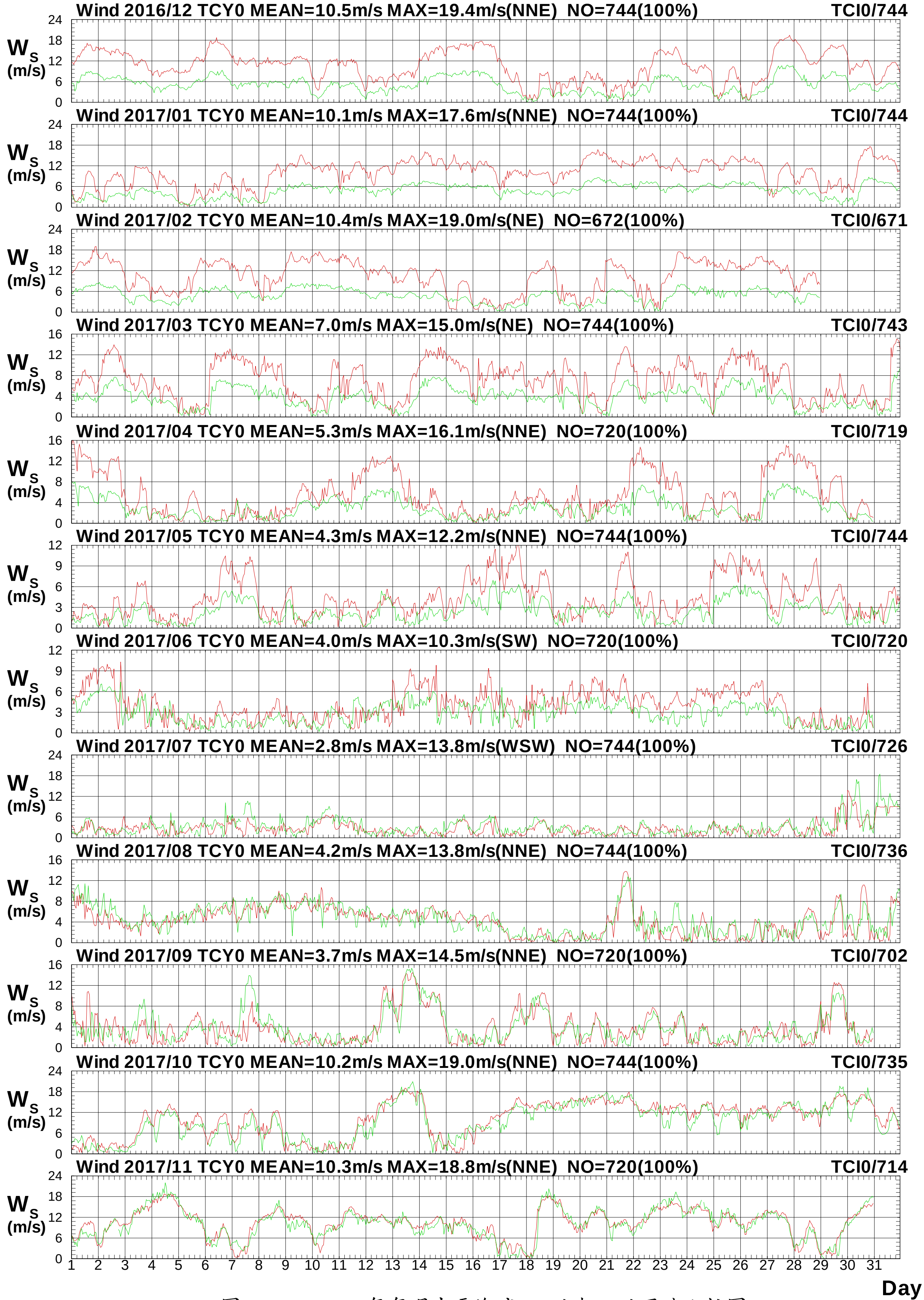

圖1.26a　2017年每月中雲海域 Y 站與 I 站風速比較圖

W16CTCY0.1HA W16CTCI0.1H0 W171TCY0.1HA W171TCI0.1H0 W172TCY0.1HA W172TCI0.1H0
W173TCY0.1HA W173TCI0.1H0 W174TCY0.1HA W174TCI0.1H0 W175TCY0.1HA W175TCI0.1H0

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Wind Direction in Chung-Yun Seas of TCY0 at 2017

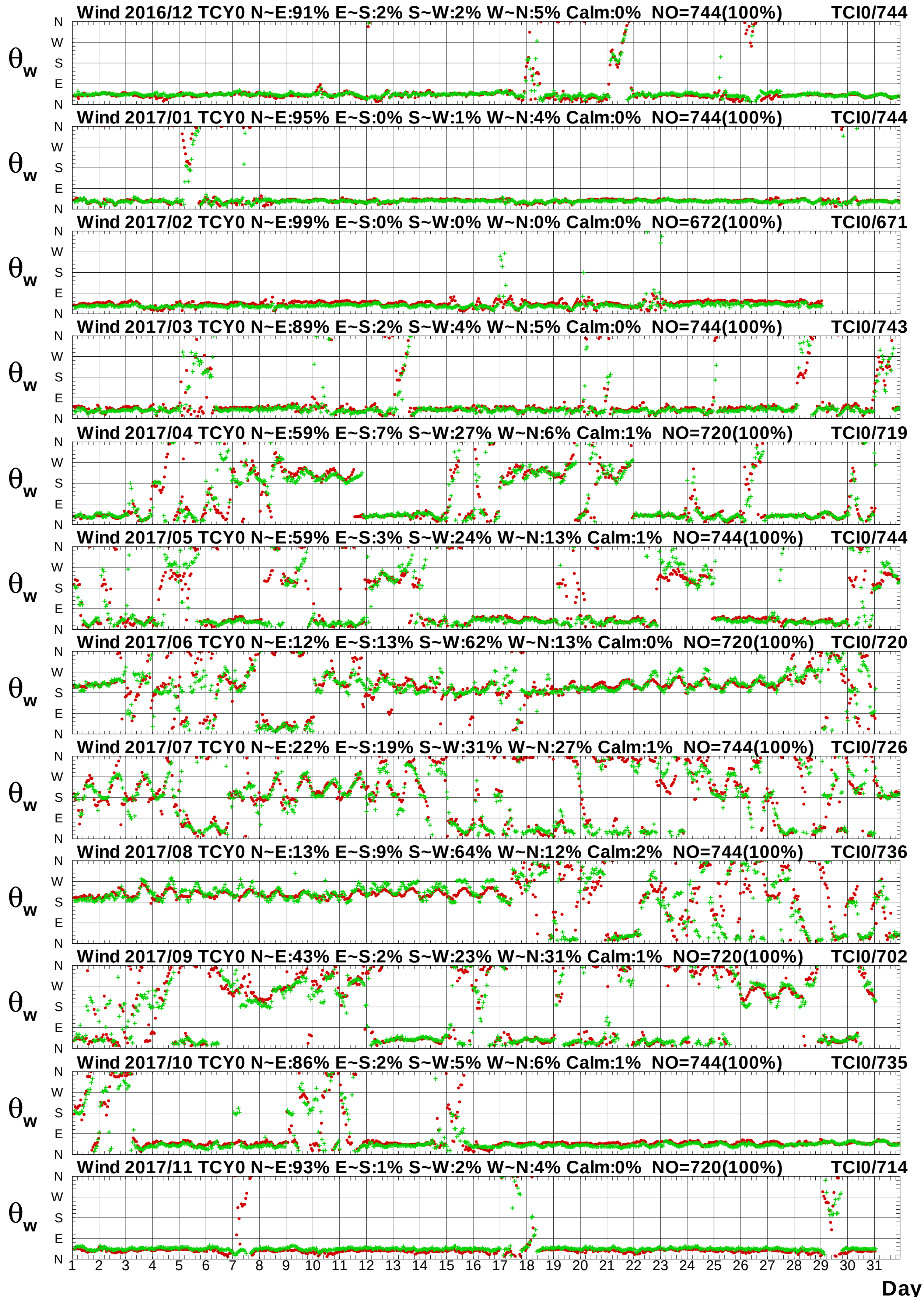

圖1.26b　2017年每月中雲海域 Y 站與 I 站風向比較圖

W16CTCY0.1HA W16CTCI0.1H0 W171TCY0.1HA W171TCI0.1H0 W172TCY0.1HA W172TCI0.1H0 W173TCY0.1HA W173TCI0.1H0 W174TCY0.1HA W174TCI0.1H0 W175TCY0.1HA W175TCI0.1H0	Institute of Harbor & Marine Technology

Wind Speed in Chung-Yun Seas of TCY0 at 2017

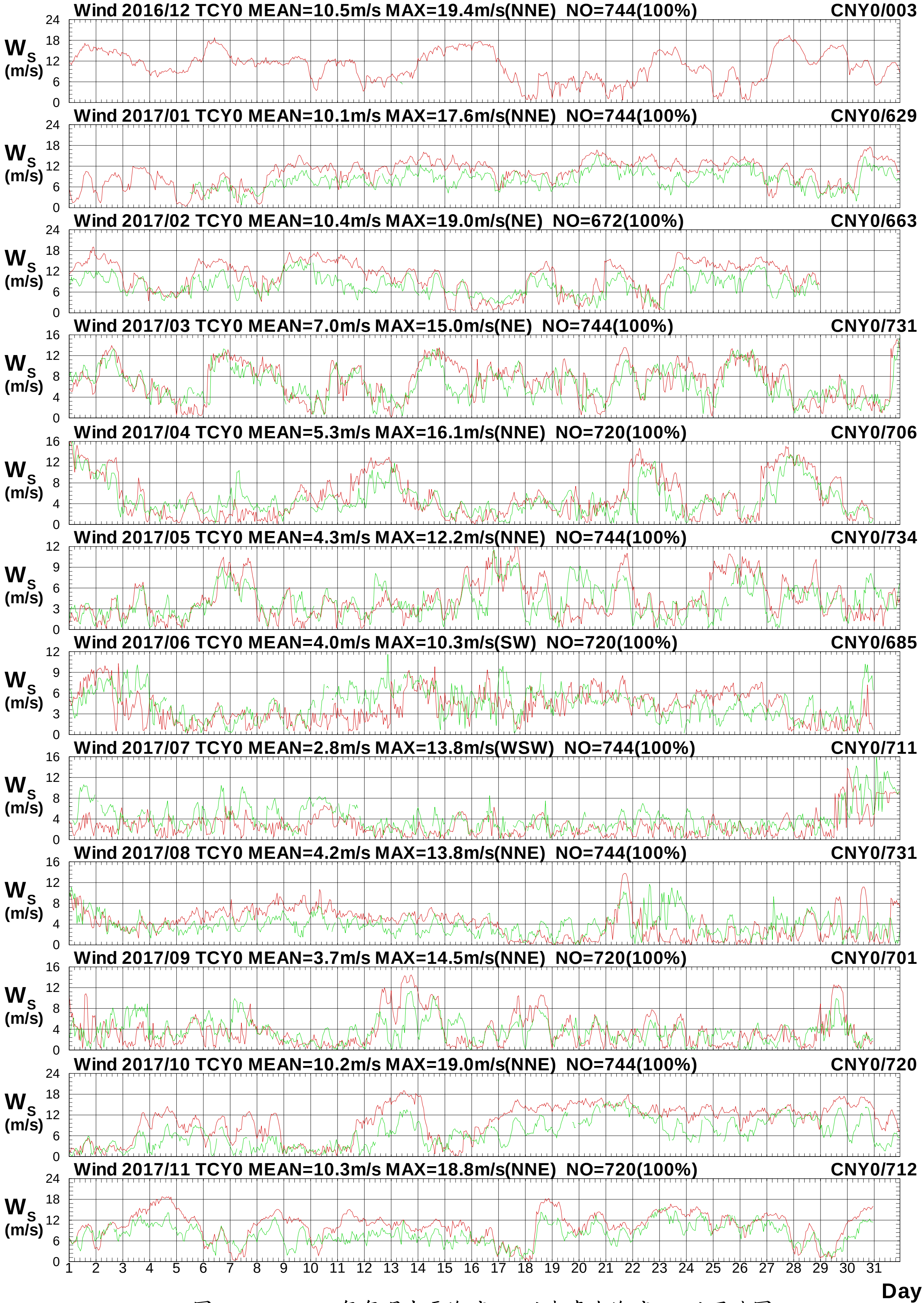

圖1.27a　2017年每月中雲海域 Y 站與嘉南海域 Y 站風速圖

W16CTCY0.1HA W16CCNY0.1H0 W171TCY0.1HA W171CNY0.1H0 W172TCY0.1HA W172CNY0.1H0
W173TCY0.1HA W173CNY0.1H0 W174TCY0.1HA W174CNY0.1H0 W175TCY0.1HA W175CNY0.1H0

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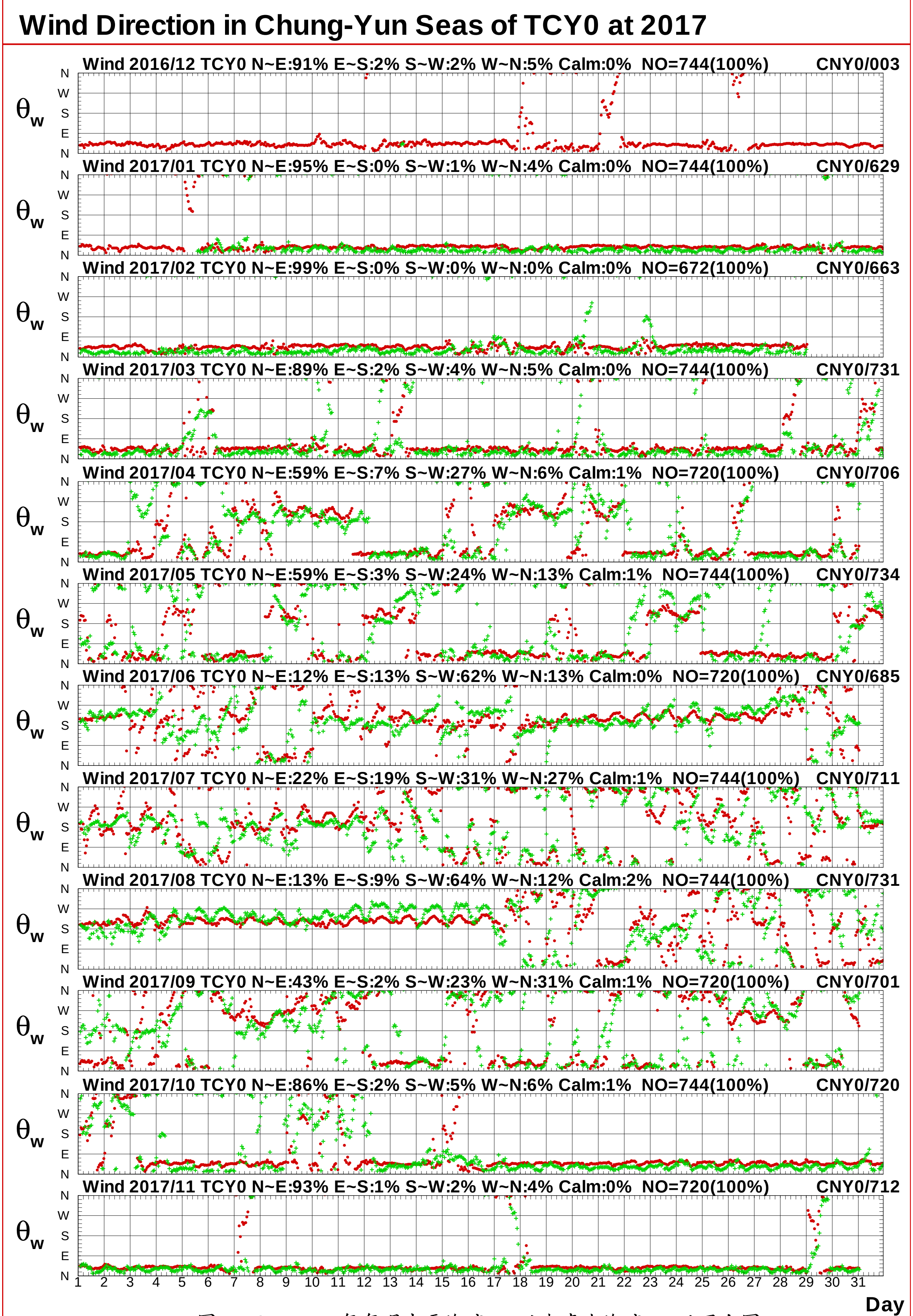

圖1.27b　2017年每月中雲海域 Y 站與嘉南海域 Y 站風向圖

W16CTCY0.1HA W16CCNY0.1H0 W171TCY0.1HA W171CNY0.1H0 W172TCY0.1HA W172CNY0.1H0
W173TCY0.1HA W173CNY0.1H0 W174TCY0.1HA W174CNY0.1H0 W175TCY0.1HA W175CNY0.1H0

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Wind Speed in Chung-Yun Seas of TCY0 at 2017

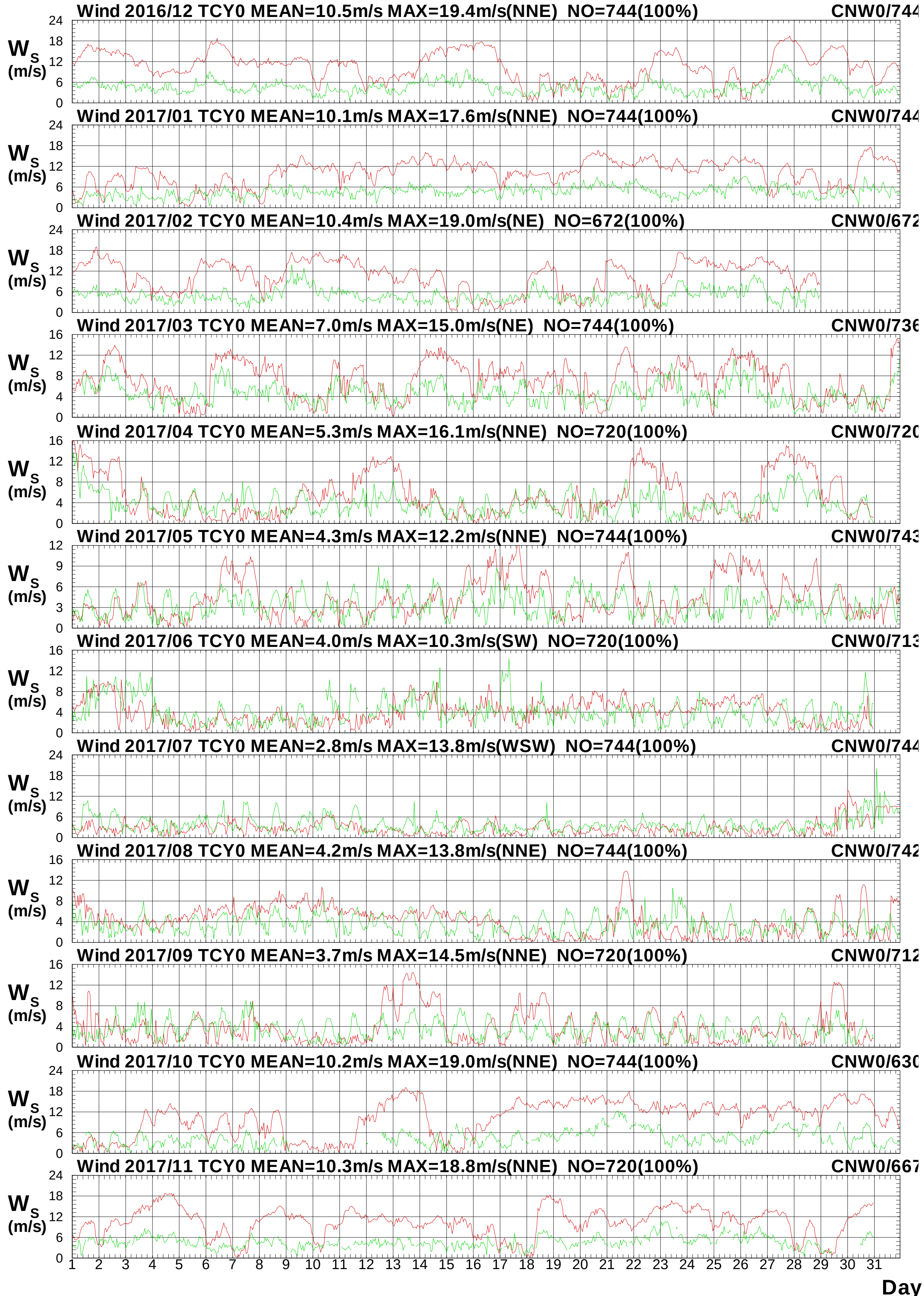

圖1.28a　2017年每月中雲海域 Y 站與嘉南海域 W 站風速圖

W16CTCY0.1HA W16CCNW0.1H0 W171TCY0.1HA W171CNW0.1H0 W172TCY0.1HA W172CNW0.1H0 W173TCY0.1HA W173CNW0.1H0 W174TCY0.1HA W174CNW0.1H0 W175TCY0.1HA W175CNW0.1H0	Institute of Harbor & Marine Technology

Wind Direction in Chung-Yun Seas of TCY0 at 2017

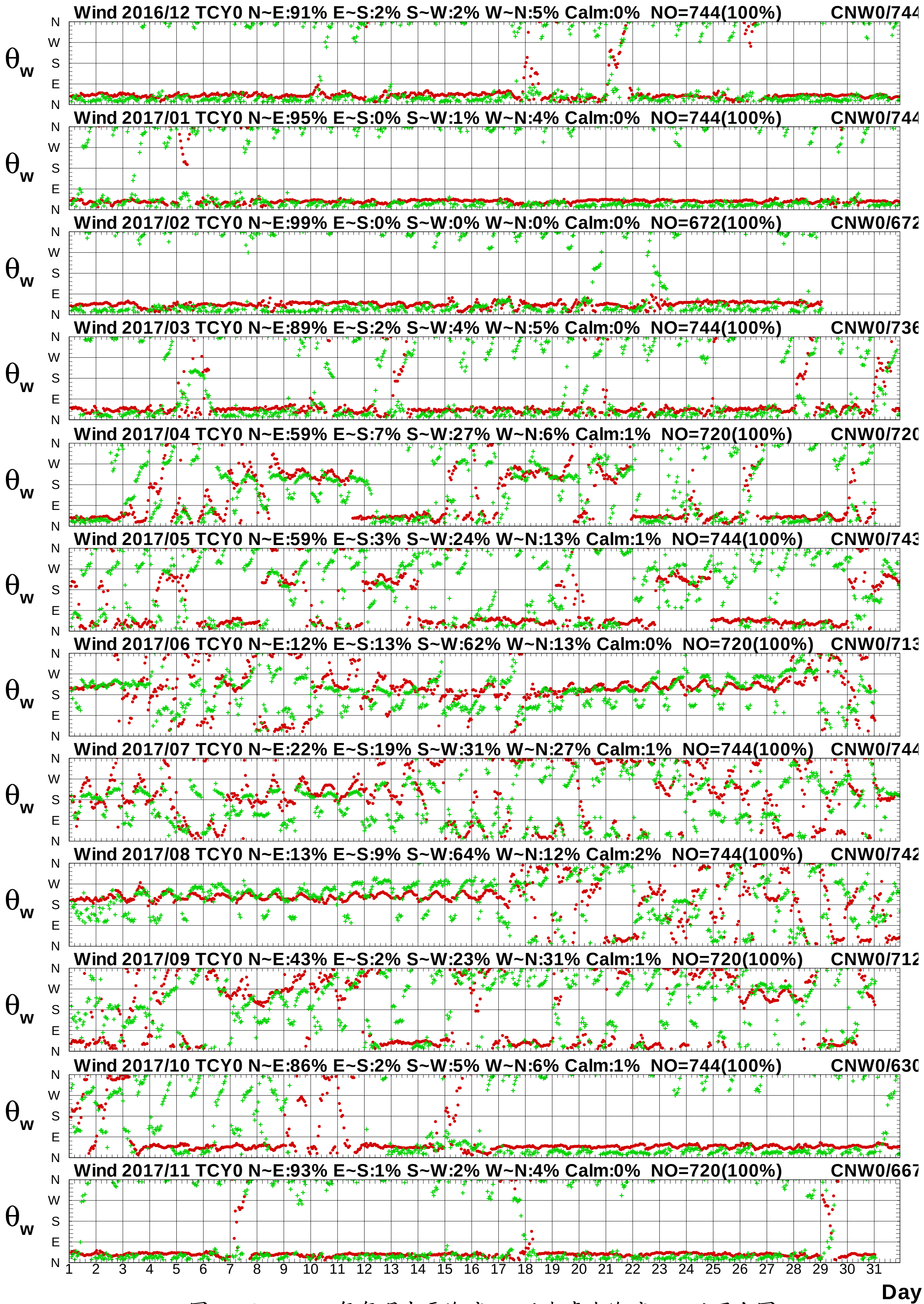

圖1.28b 2017年每月中雲海域 Y 站與嘉南海域 W 站風向圖

W16CTCY0.1HA W16CCNW0.1H0 W171TCY0.1HA W171CNW0.1H0 W172TCY0.1HA W172CNW0.1H0 W173TCY0.1HA W173CNW0.1H0 W174TCY0.1HA W174CNW0.1H0 W175TCY0.1HA W175CNW0.1H0	Institute of Harbor & Marine Technology

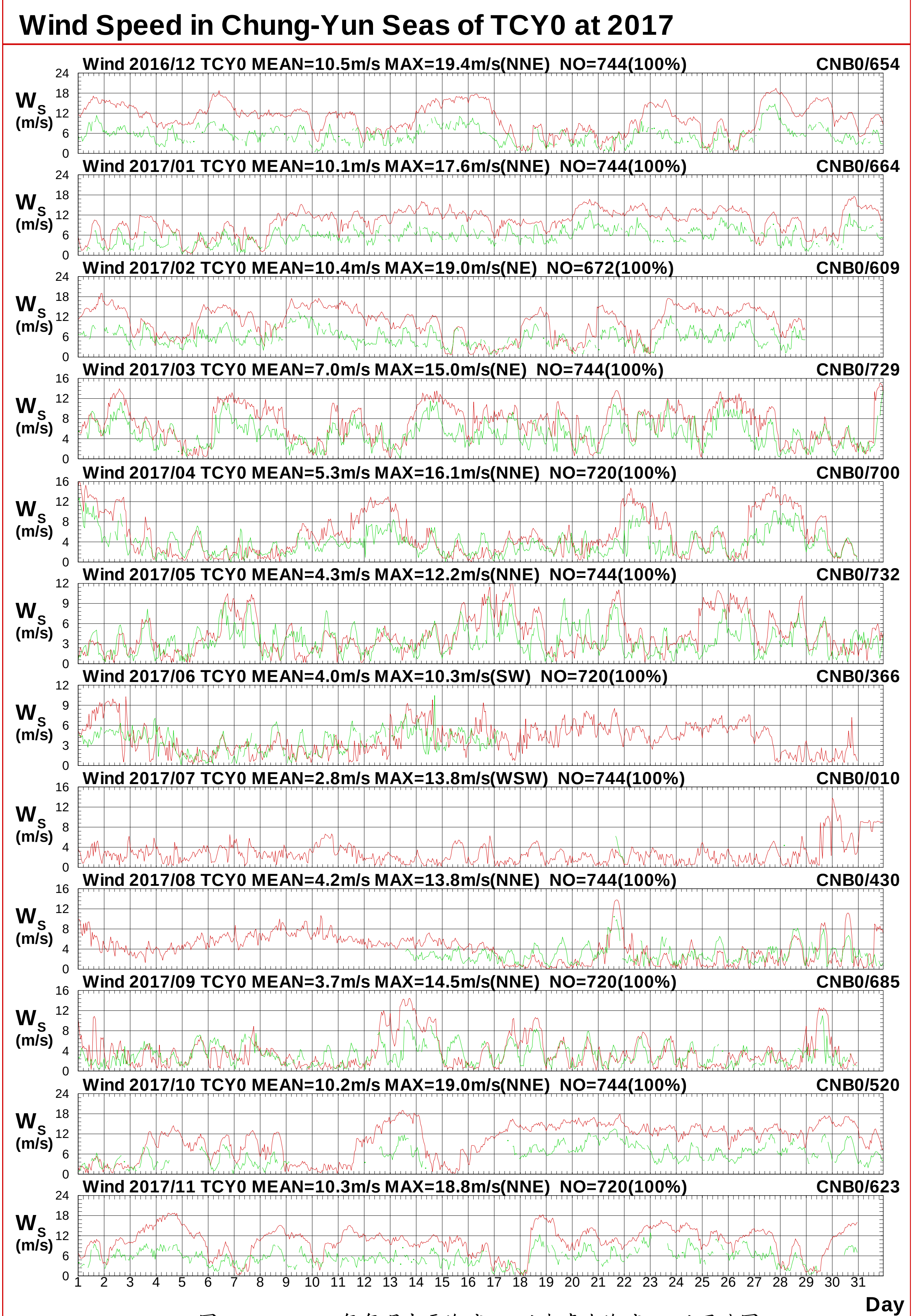

圖1.29a　2017年每月中雲海域 Y 站與嘉南海域 B 站風速圖

W16CTCY0.1HA W16CCNB0.1H0 W171TCY0.1HA W171CNB0.1H0 W172TCY0.1HA W172CNB0.1H0
W173TCY0.1HA W173CNB0.1H0 W174TCY0.1HA W174CNB0.1H0 W175TCY0.1HA W175CNB0.1H0

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Wind Direction in Chung-Yun Seas of TCY0 at 2017

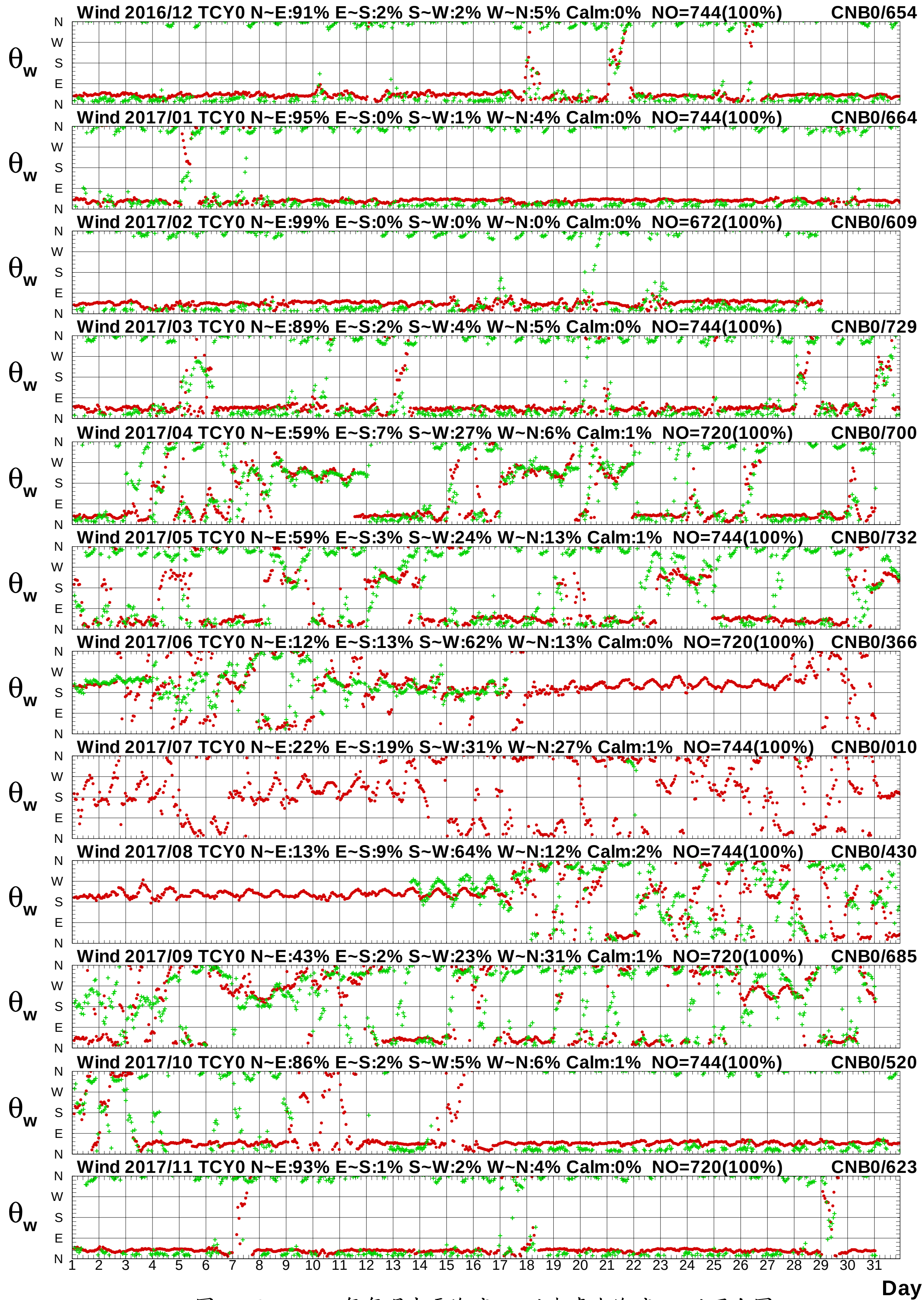

圖1.29b　2017年每月中雲海域 Y 站與嘉南海域 B 站風向圖

W16CTCY0.1HA W16CCNB0.1H0 W171TCY0.1HA W171CNB0.1H0 W172TCY0.1HA W172CNB0.1H0 W173TCY0.1HA W173CNB0.1H0 W174TCY0.1HA W174CNB0.1H0 W175TCY0.1HA W175CNB0.1H0	Institute of Harbor & Marine Technology

Wind Speed in Chung-Yun Seas of TCY0 at 2017

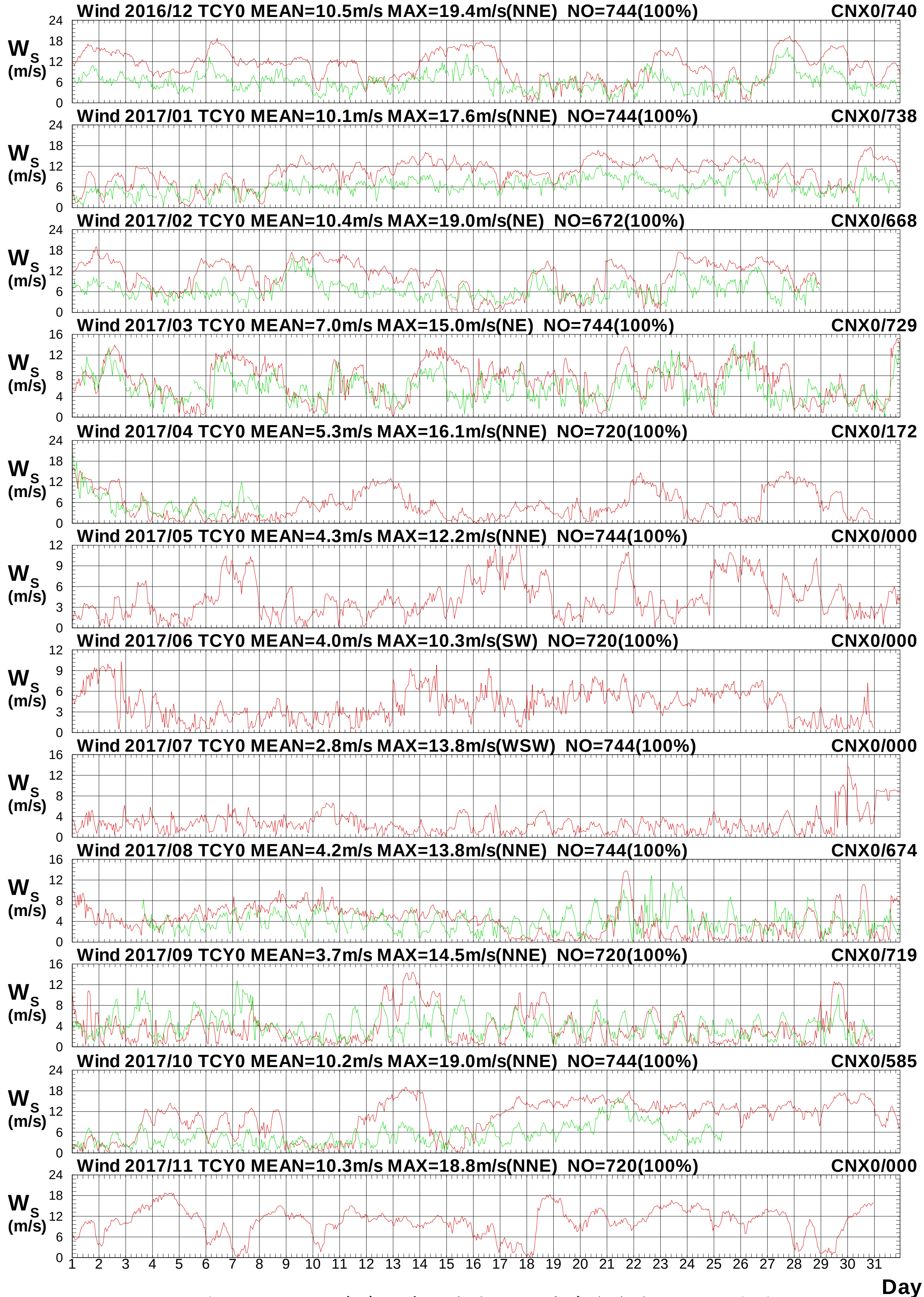

圖1.30a 2017年每月中雲海域 Y 站與嘉南海域 X 站風速圖

W16CTCY0.1HA W16CCNX0.1H0 W171TCY0.1HA W171CNX0.1H0 W172TCY0.1HA W172CNX0.1H0
W173TCY0.1HA W173CNX0.1H0 W174TCY0.1HA W174CNX0.1H0 W175TCY0.1HA W175CNX0.1H0

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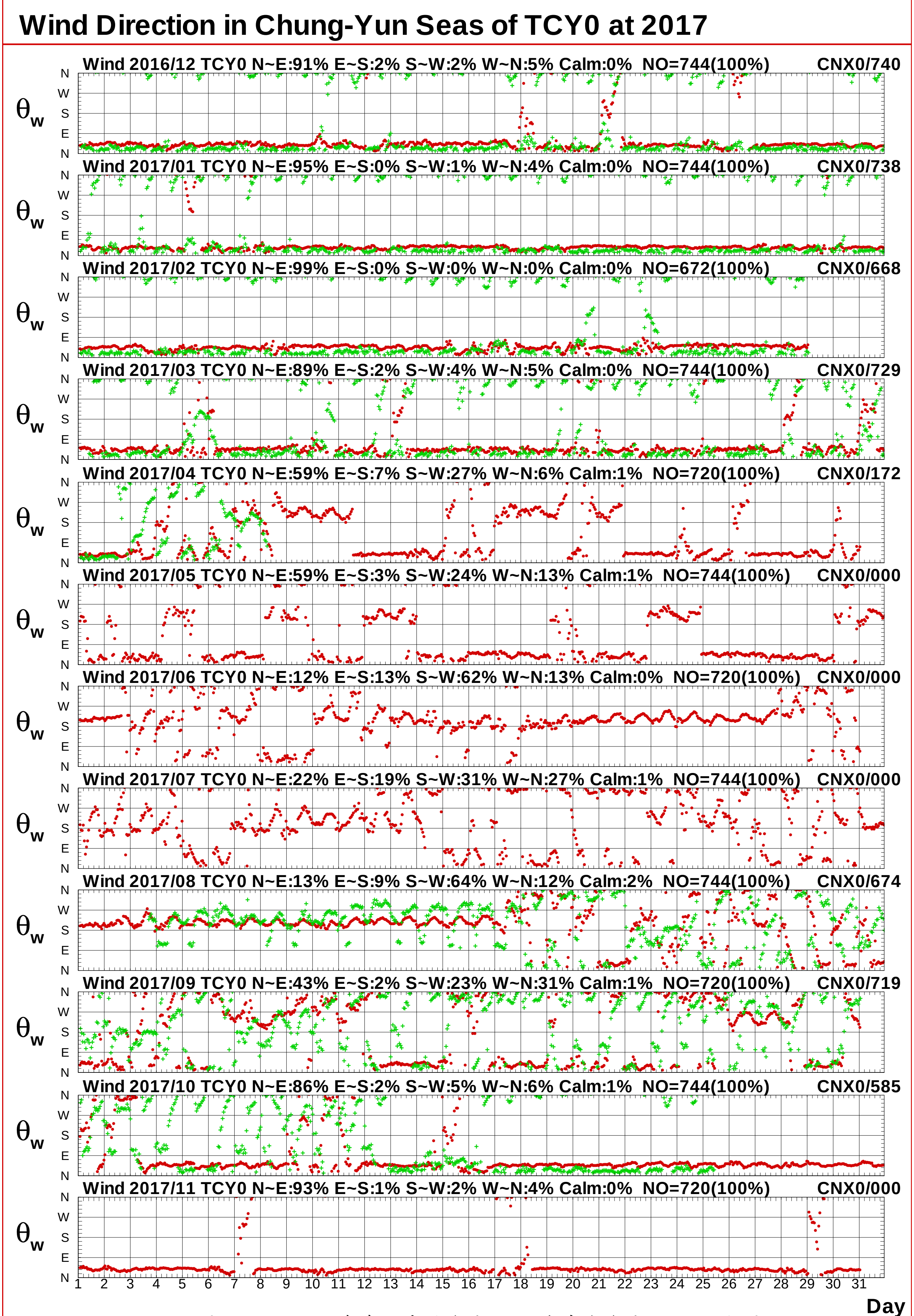

圖1.30b　2017年每月中雲海域 Y 站與嘉南海域 X 站風向圖

W16CTCY0.1HA W16CCNX0.1H0 W171TCY0.1HA W171CNX0.1H0 W172TCY0.1HA W172CNX0.1H0
W173TCY0.1HA W173CNX0.1H0 W174TCY0.1HA W174CNX0.1H0 W175TCY0.1HA W175CNX0.1H0

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Wind Speed in Chung-Yun Seas of TCY0 at 2017

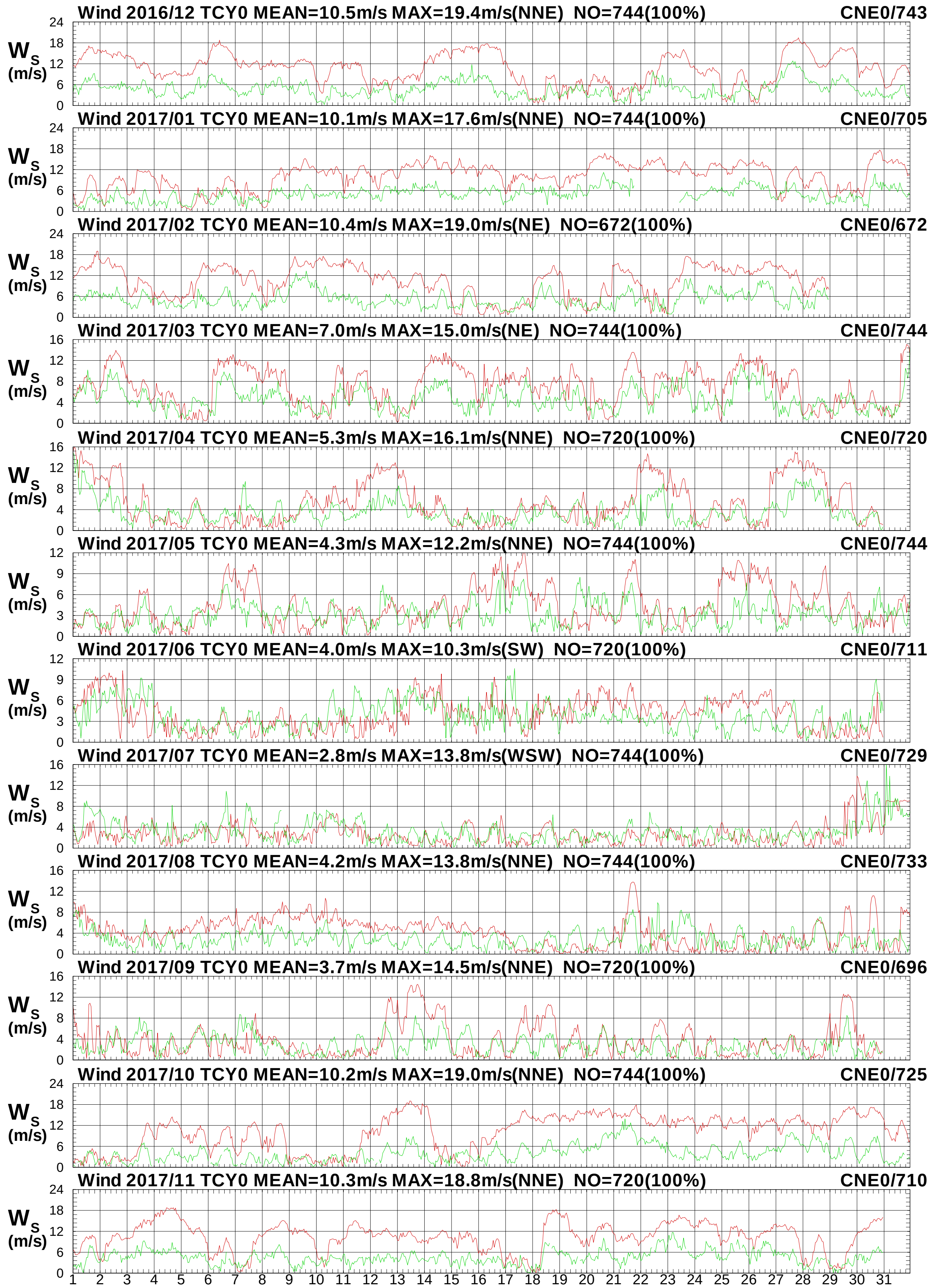

圖1.31a　2017年每月中雲海域 Y 站與嘉南海域 E 站風速圖

W16CTCY0.1HA W16CCNE0.1H0 W171TCY0.1HA W171CNE0.1H0 W172TCY0.1HA W172CNE0.1H0
W173TCY0.1HA W173CNE0.1H0 W174TCY0.1HA W174CNE0.1H0 W175TCY0.1HA W175CNE0.1H0

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Wind Direction in Chung-Yun Seas of TCY0 at 2017

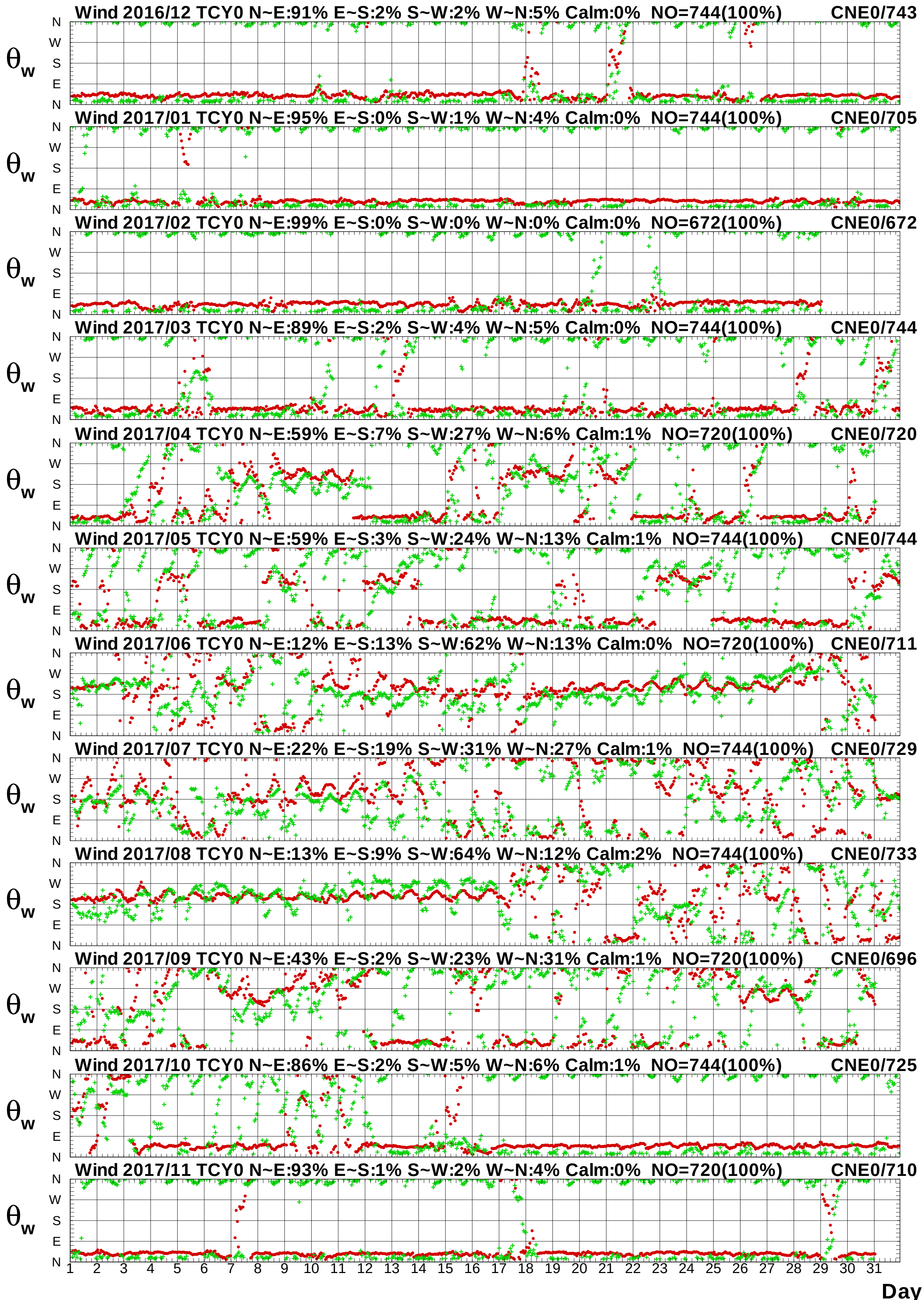

圖1.31b 2017年每月中雲海域 Y 站與嘉南海域 E 站風向圖

W16CTCY0.1HA W16CCNE0.1H0 W171TCY0.1HA W171CNE0.1H0 W172TCY0.1HA W172CNE0.1H0 W173TCY0.1HA W173CNE0.1H0 W174TCY0.1HA W174CNE0.1H0 W175TCY0.1HA W175CNE0.1H0	Institute of Harbor & Marine Technology

Wind Speed in Chung-Yun Seas of TCY0 at 2017

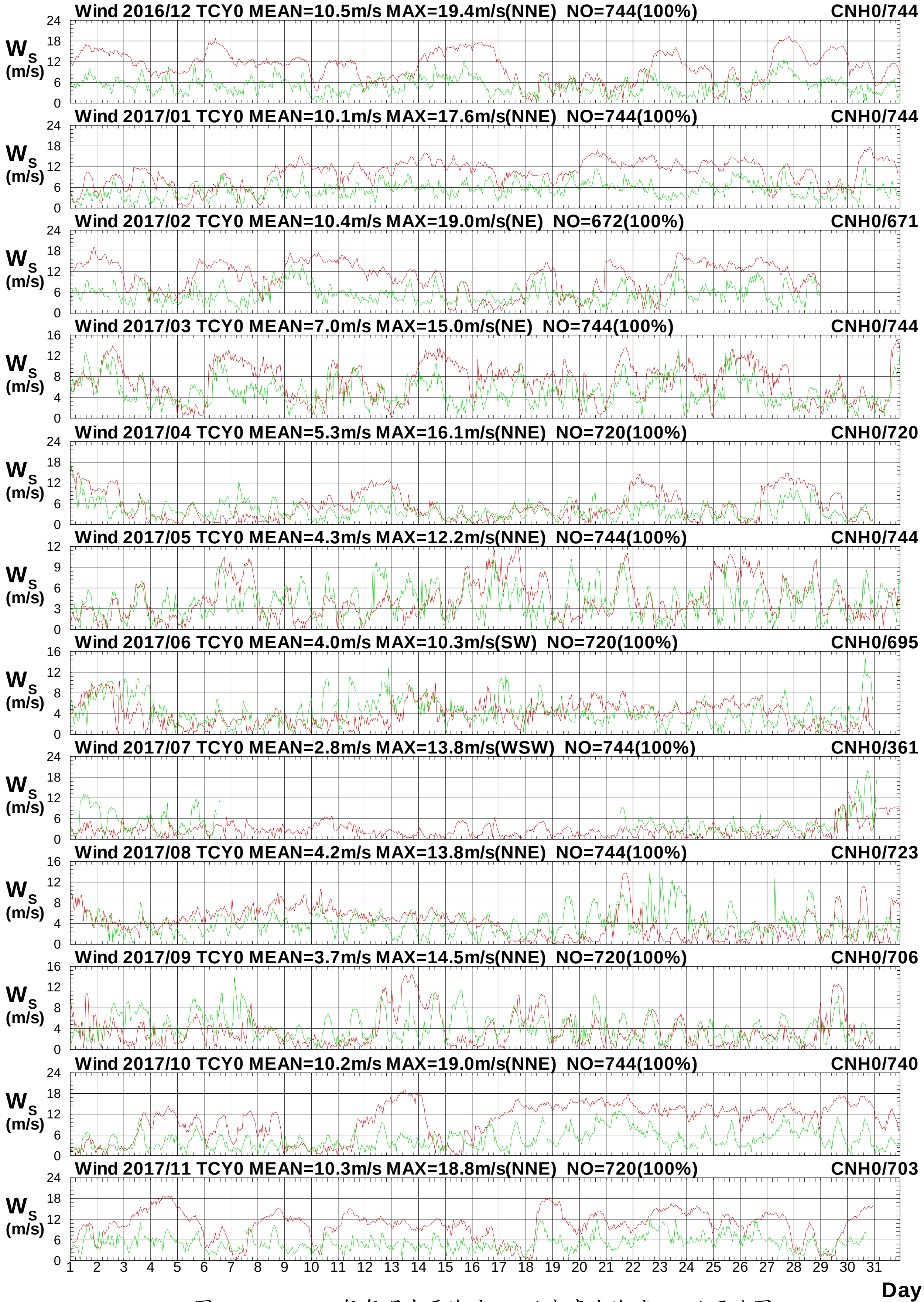

圖1.32a 2017年每月中雲海域 Y 站與嘉南海域 H 站風速圖

W16CTCY0.1HA W16CCNH0.1H0 W171TCY0.1HA W171CNH0.1H0 W172TCY0.1HA W172CNH0.1H0
W173TCY0.1HA W173CNH0.1H0 W174TCY0.1HA W174CNH0.1H0 W175TCY0.1HA W175CNH0.1H0

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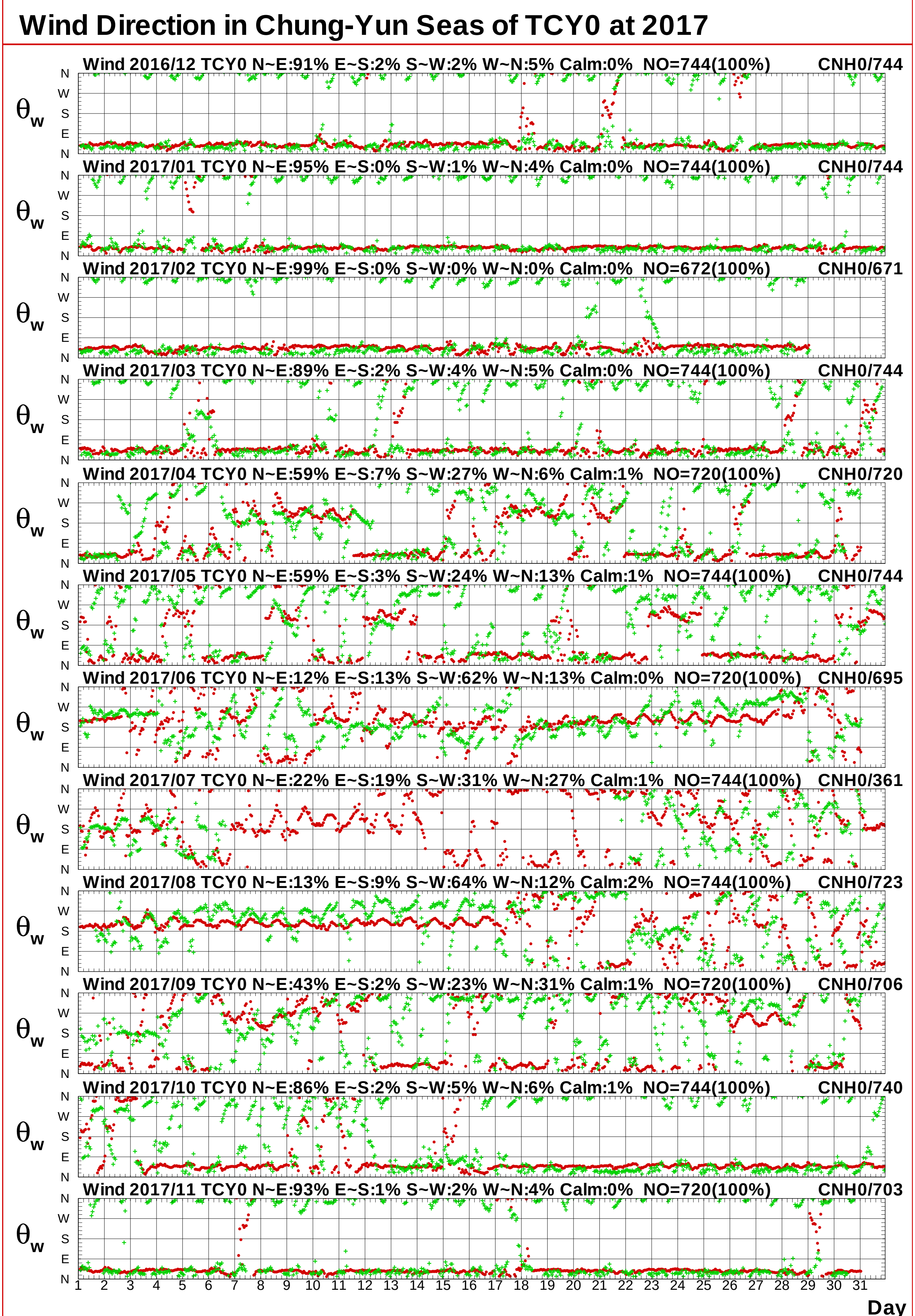

圖1.32b　2017年每月中雲海域 Y 站與嘉南海域 H 站風向圖

W16CTCY0.1HA W16CCNH0.1H0 W171TCY0.1HA W171CNH0.1H0 W172TCY0.1HA W172CNH0.1H0
W173TCY0.1HA W173CNH0.1H0 W174TCY0.1HA W174CNH0.1H0 W175TCY0.1HA W175CNH0.1H0

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Wind Speed in Chung-Yun Seas of TCY0 at 2017

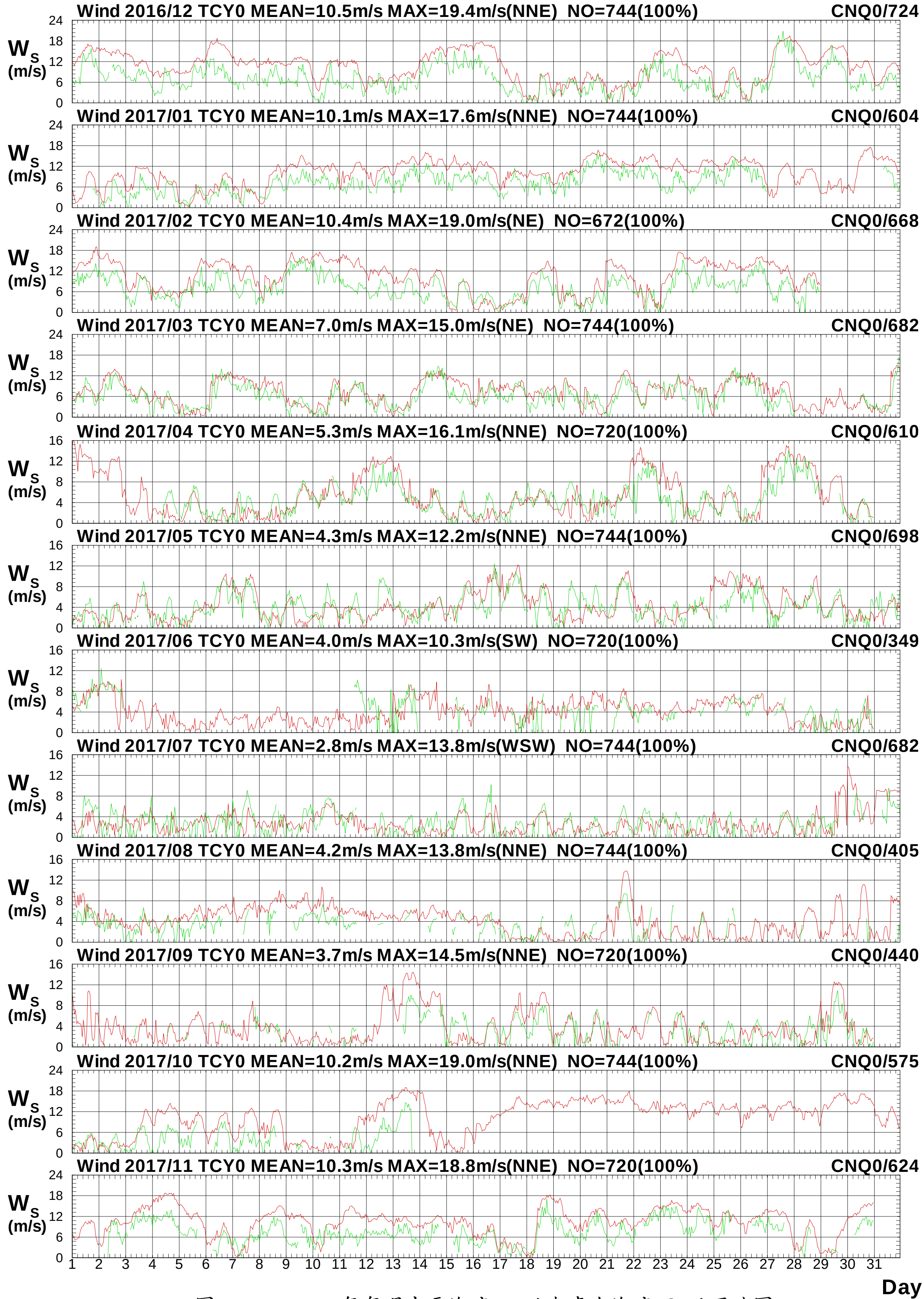

圖1.33a　2017年每月中雲海域 Y 站與嘉南海域 Q 站風速圖

W16CTCY0.1HA W16CCNQ0.1H0 W171TCY0.1HA W171CNQ0.1H0 W172TCY0.1HA W172CNQ0.1H0
W173TCY0.1HA W173CNQ0.1H0 W174TCY0.1HA W174CNQ0.1H0 W175TCY0.1HA W175CNQ0.1H0

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Wind Direction in Chung-Yun Seas of TCY0 at 2017

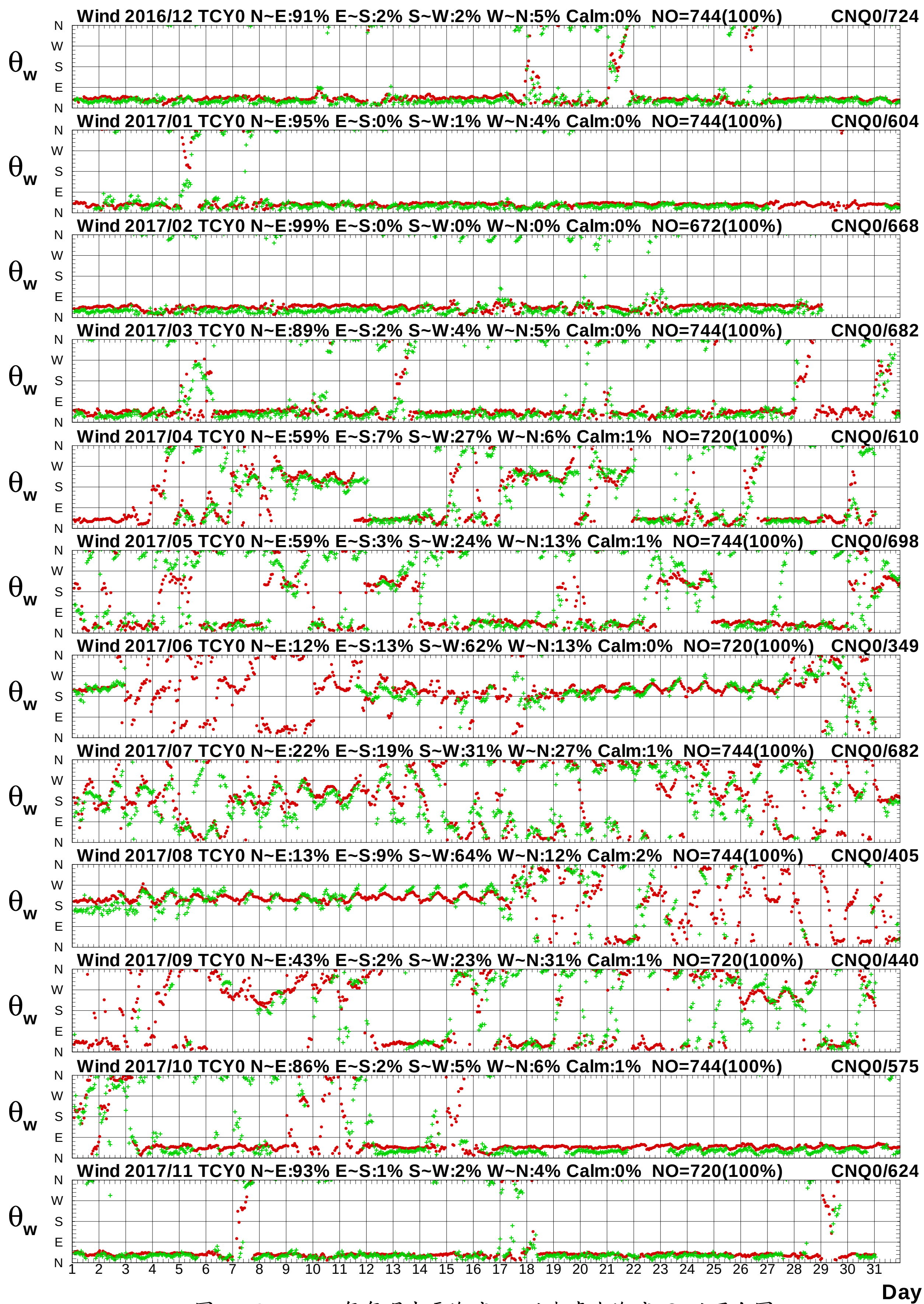

圖1.33b　2017年每月中雲海域 Y 站與嘉南海域 Q 站風向圖

W16CTCY0.1HA W16CCNQ0.1H0 W171TCY0.1HA W171CNQ0.1H0 W172TCY0.1HA W172CNQ0.1H0 W173TCY0.1HA W173CNQ0.1H0 W174TCY0.1HA W174CNQ0.1H0 W175TCY0.1HA W175CNQ0.1H0	Institute of Harbor & Marine Technology

Wind Speed in Chung-Yun Seas of TCY0 at 2017

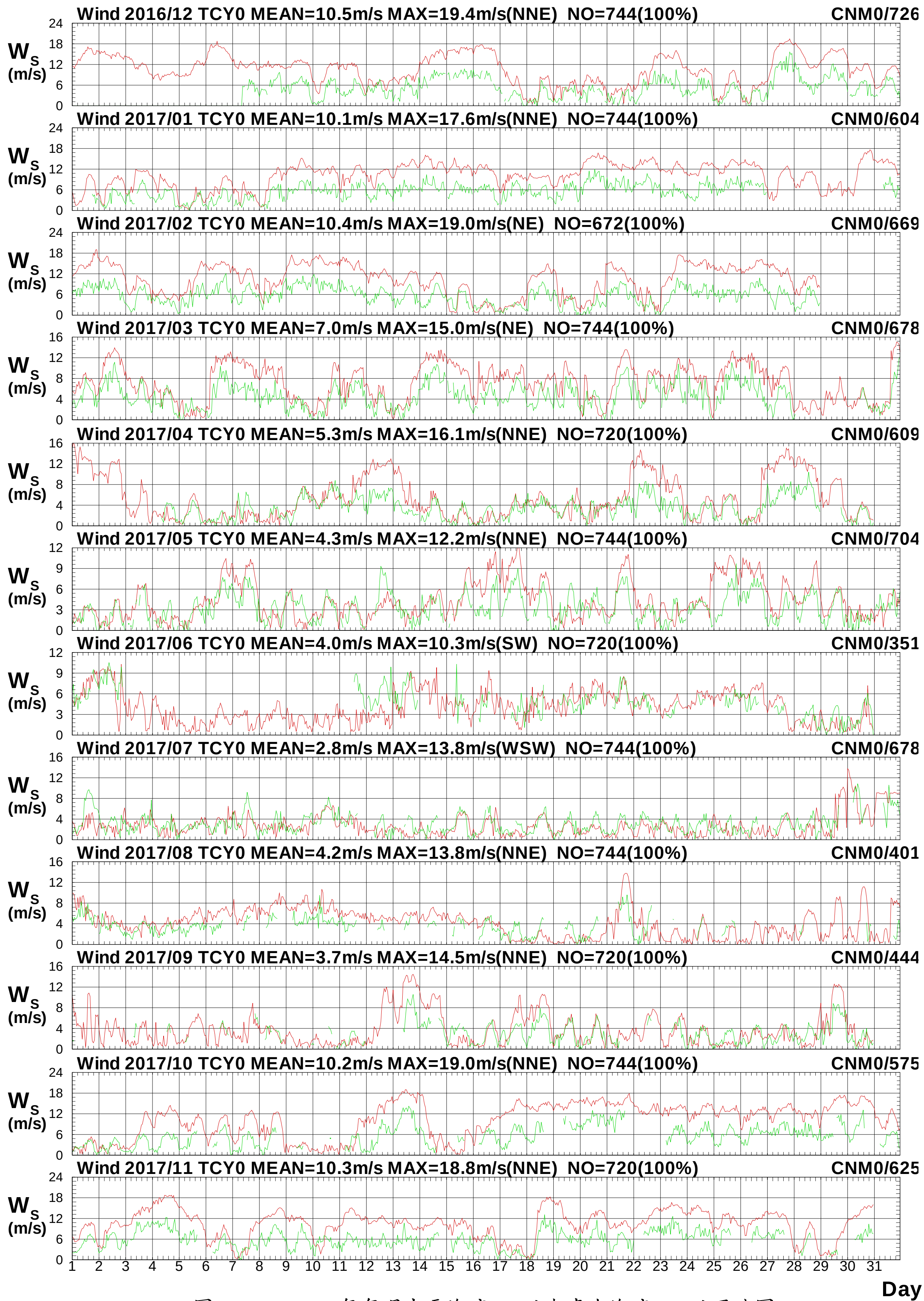

圖1.34a　2017年每月中雲海域 Y 站與嘉南海域 M 站風速圖

W16CTCY0.1HA W16CCNM0.1H0 W171TCY0.1HA W171CNM0.1H0 W172TCY0.1HA W172CNM0.1H0
W173TCY0.1HA W173CNM0.1H0 W174TCY0.1HA W174CNM0.1H0 W175TCY0.1HA W175CNM0.1H0

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Wind Direction in Chung-Yun Seas of TCY0 at 2017

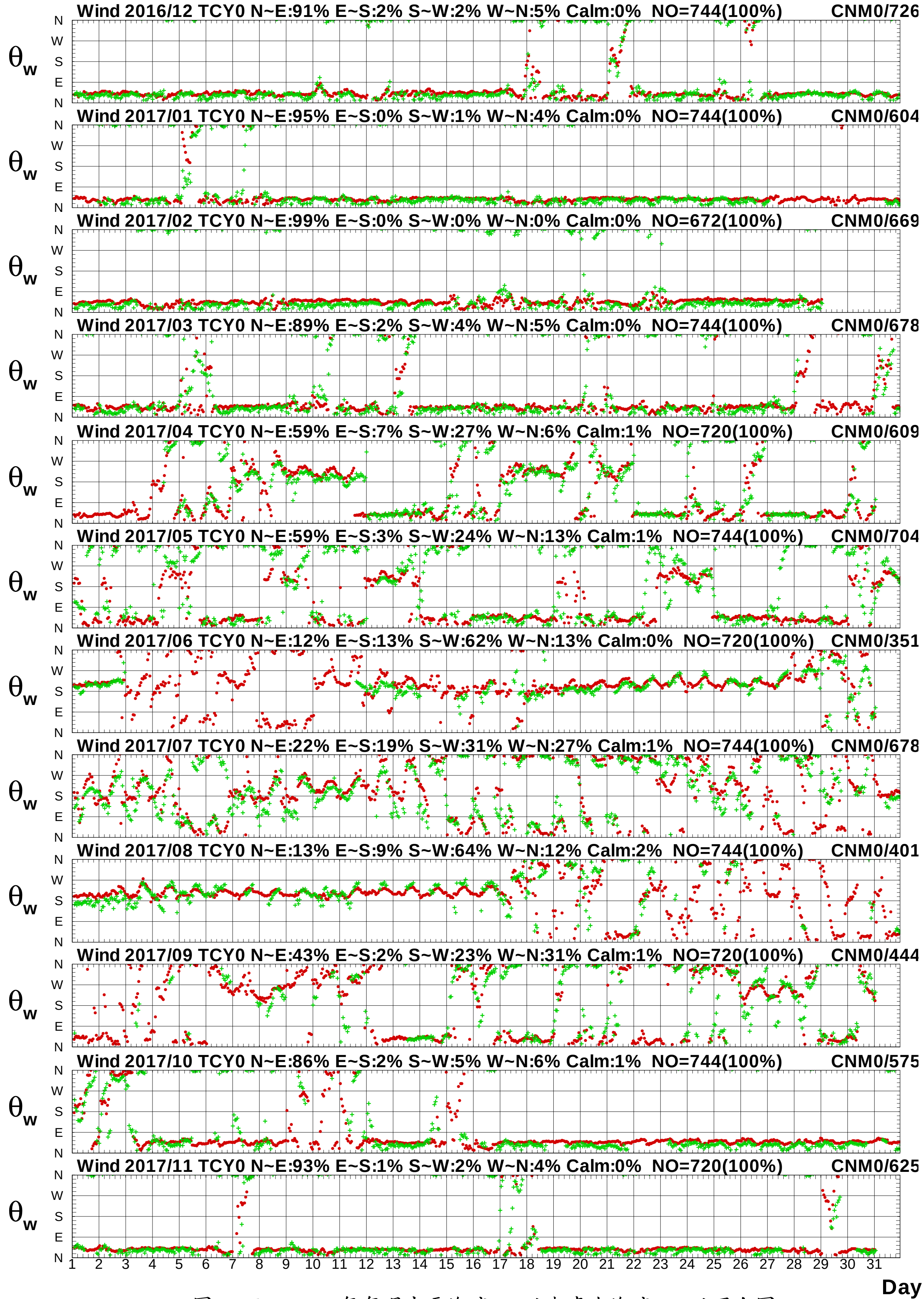

圖1.34b　2017年每月中雲海域 Y 站與嘉南海域 M 站風向圖

W16CTCY0.1HA W16CCNM0.1H0 W171TCY0.1HA W171CNM0.1H0 W172TCY0.1HA W172CNM0.1H0 W173TCY0.1HA W173CNM0.1H0 W174TCY0.1HA W174CNM0.1H0 W175TCY0.1HA W175CNM0.1H0	Institute of Harbor & Marine Technology

Wind Speed in Chung-Yun Seas of TCY0 at 2017

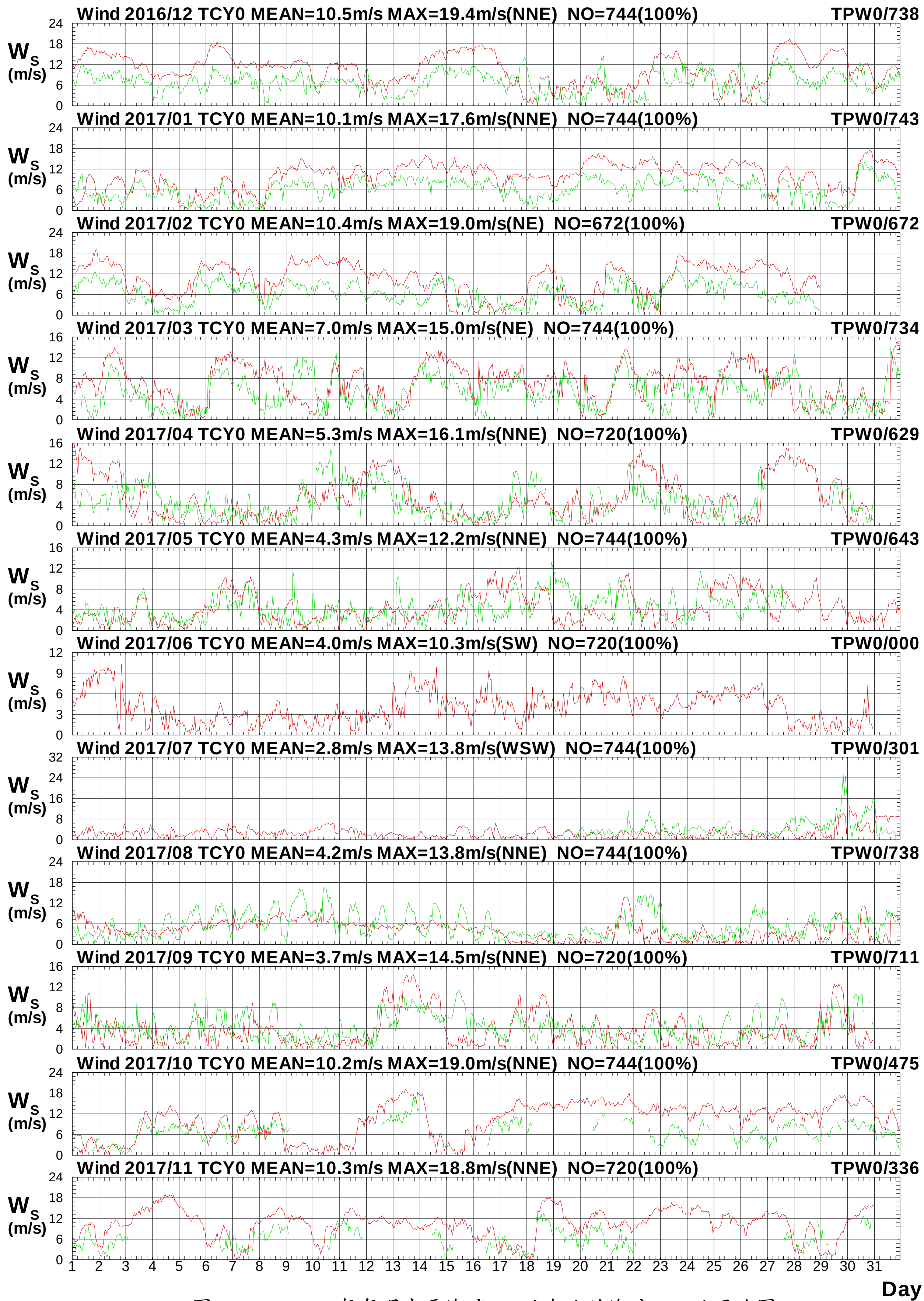

圖1.35a　2017年每月中雲海域 Y 站與北苗海域 W 站風速圖

W16CTCY0.1HA W16CTPW0.1H0 W171TCY0.1HA W171TPW0.1H0 W172TCY0.1HA W172TPW0.1H0 W173TCY0.1HA W173TPW0.1H0 W174TCY0.1HA W174TPW0.1H0 W175TCY0.1HA W175TPW0.1H0	Institute of Harbor & Marine Technology

Wind Direction in Chung-Yun Seas of TCY0 at 2017

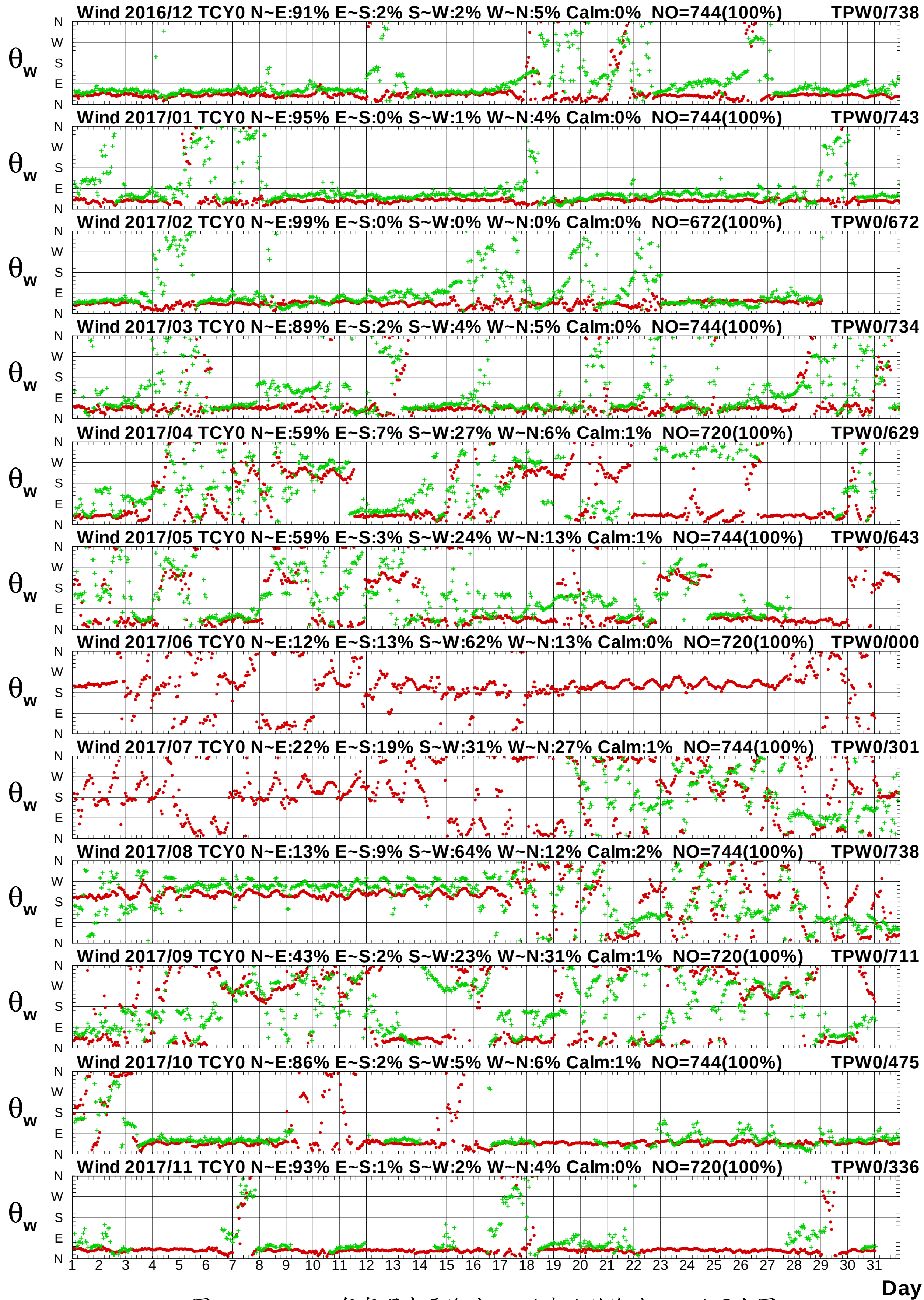

圖1.35b　2017年每月中雲海域 Y 站與北苗海域 W 站風向圖

W16CTCY0.1HA W16CTPW0.1H0 W171TCY0.1HA W171TPW0.1H0 W172TCY0.1HA W172TPW0.1H0 W173TCY0.1HA W173TPW0.1H0 W174TCY0.1HA W174TPW0.1H0 W175TCY0.1HA W175TPW0.1H0	Institute of Harbor & Marine Technology

Wind Speed in Chung-Yun Seas of TCY0 at 2017

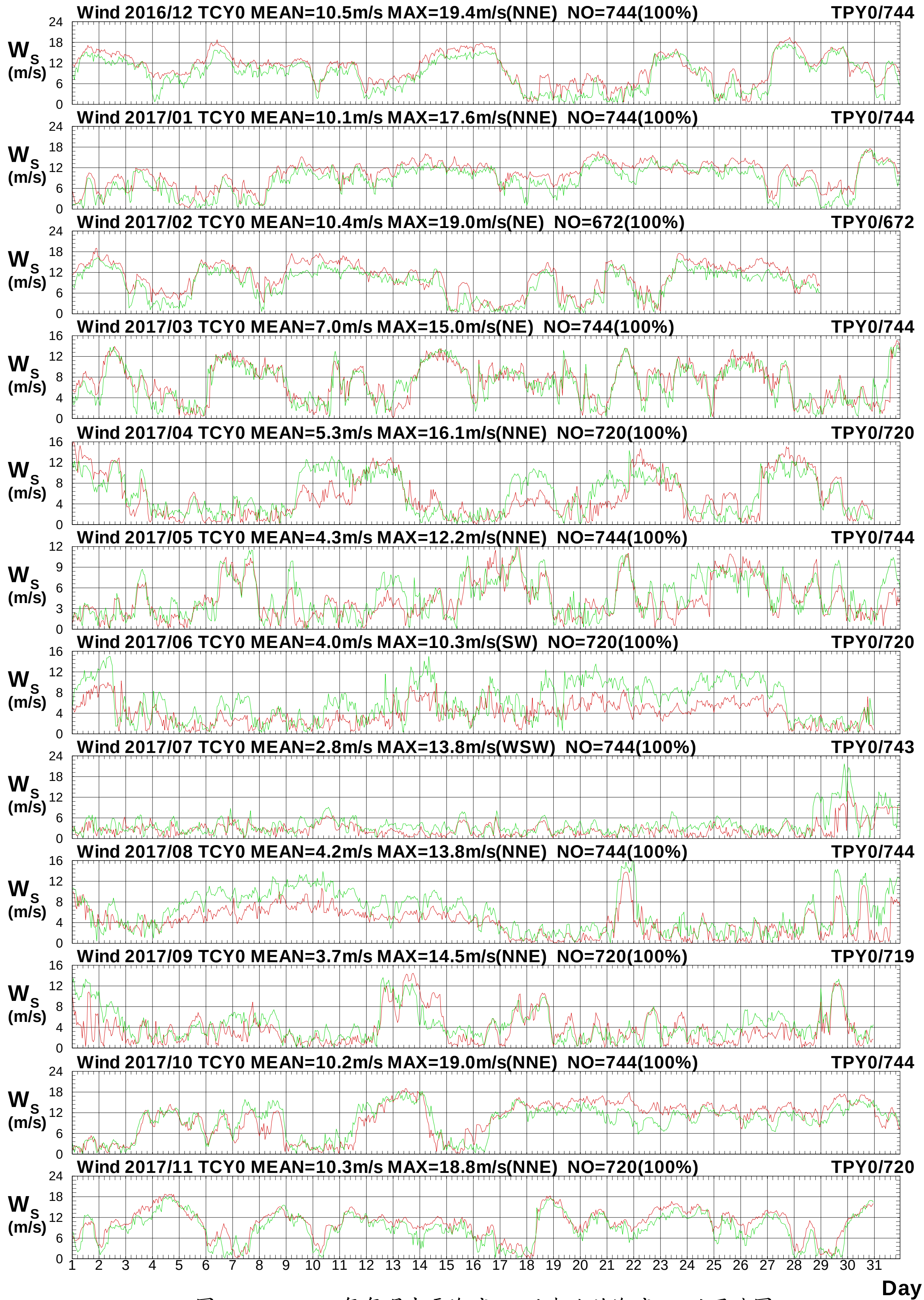

圖1.36a　2017年每月中雲海域 Y 站與北苗海域 Y 站風速圖

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

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Wind Direction in Chung-Yun Seas of TCY0 at 2017

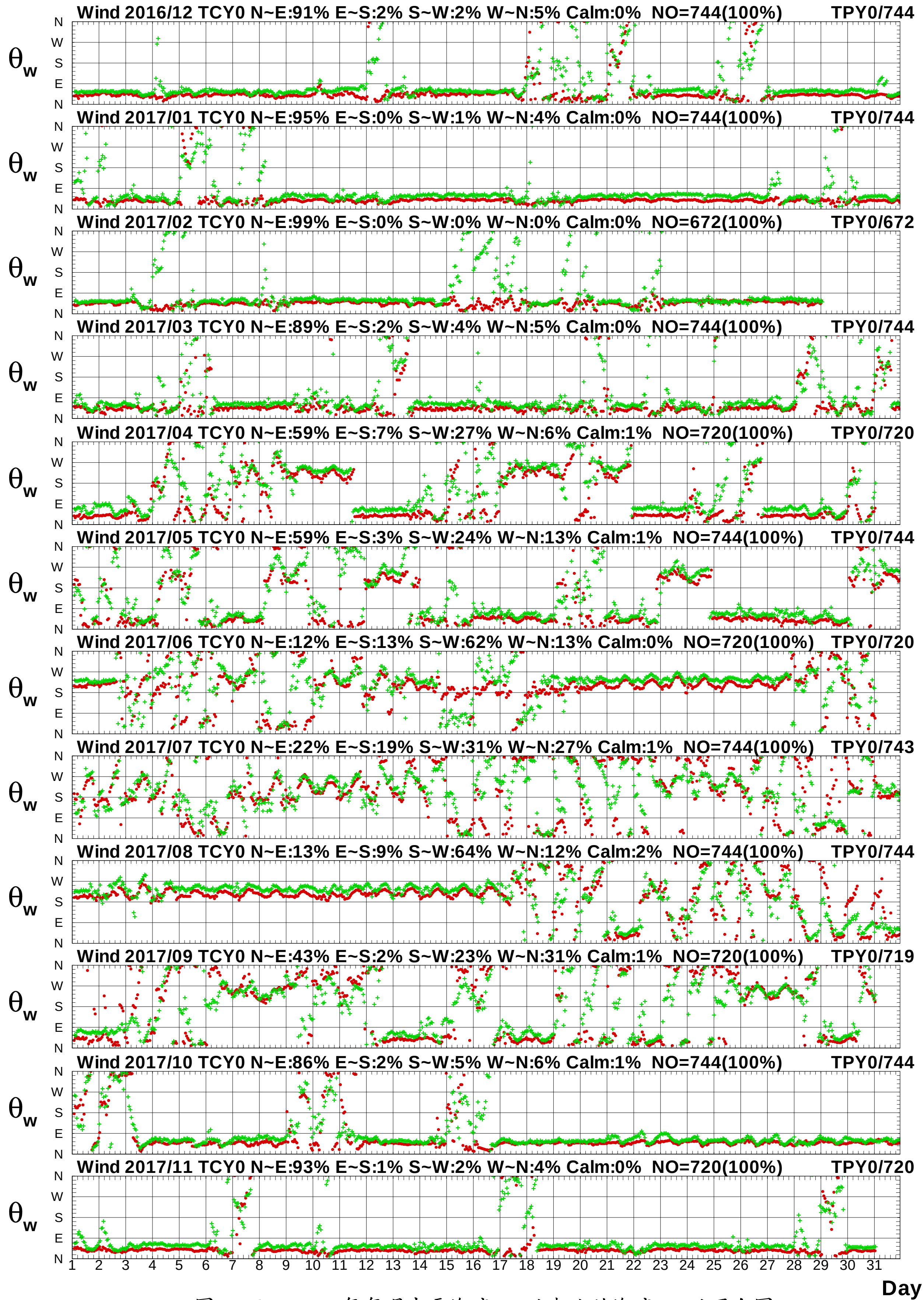

圖1.36b　2017年每月中雲海域 Y 站與北苗海域 Y 站風向圖

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

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Wind Speed in Chung-Yun Seas of TCY0 at 2017

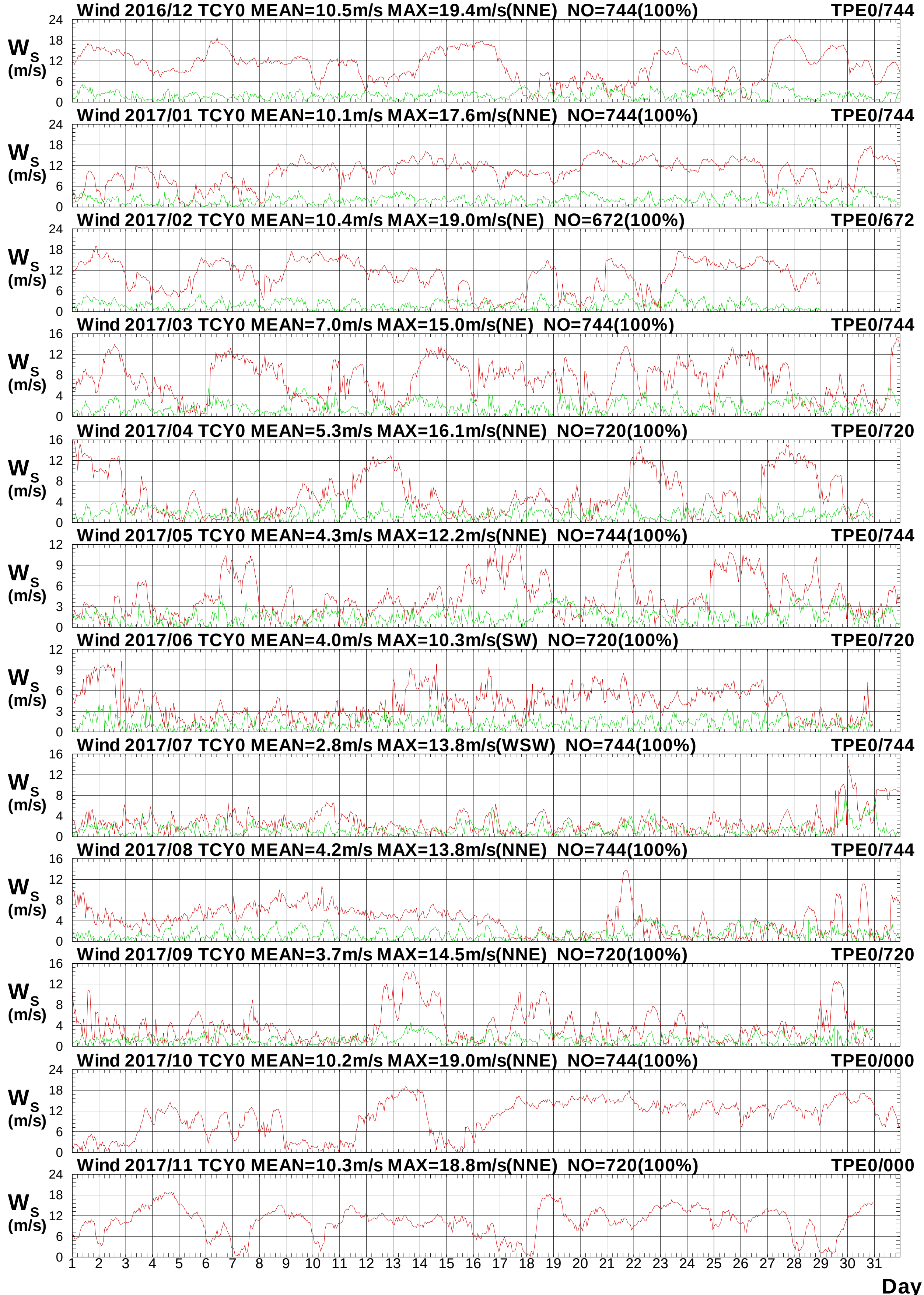

圖1.37a　2017年每月中雲海域 Y 站與北苗海域 E 站風速圖

W16CTCY0.1HA W16CTPE0.1H0 W171TCY0.1HA W171TPE0.1H0 W172TCY0.1HA W172TPE0.1H0
W173TCY0.1HA W173TPE0.1H0 W174TCY0.1HA W174TPE0.1H0 W175TCY0.1HA W175TPE0.1H0

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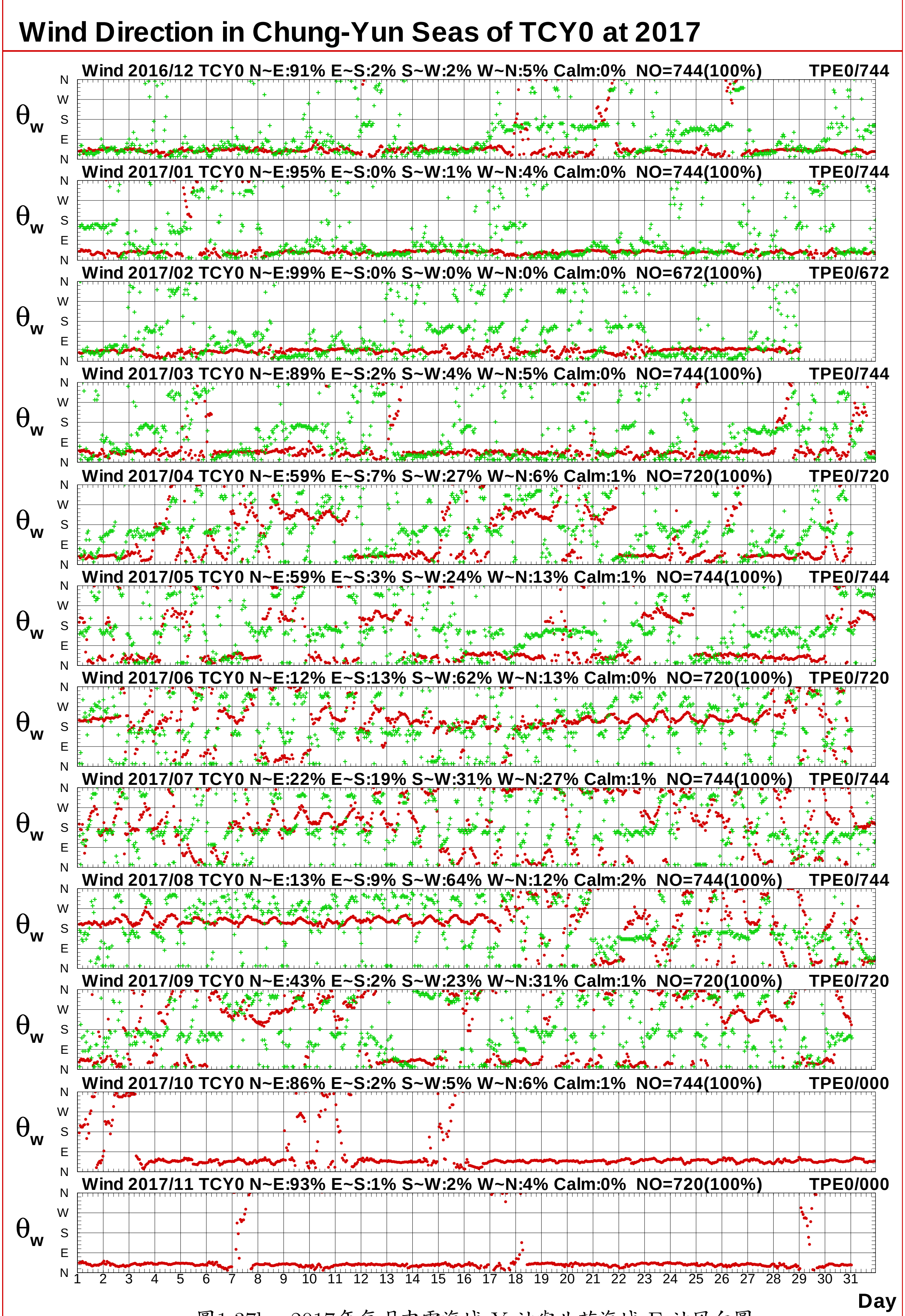

圖1.37b　2017年每月中雲海域 Y 站與北苗海域 E 站風向圖

W16CTCY0.1HA W16CTPE0.1H0 W171TCY0.1HA W171TPE0.1H0 W172TCY0.1HA W172TPE0.1H0 W173TCY0.1HA W173TPE0.1H0 W174TCY0.1HA W174TPE0.1H0 W175TCY0.1HA W175TPE0.1H0	Institute of Harbor & Marine Technology

Wind Speed in Chung-Yun Seas of TCY0 at 2017

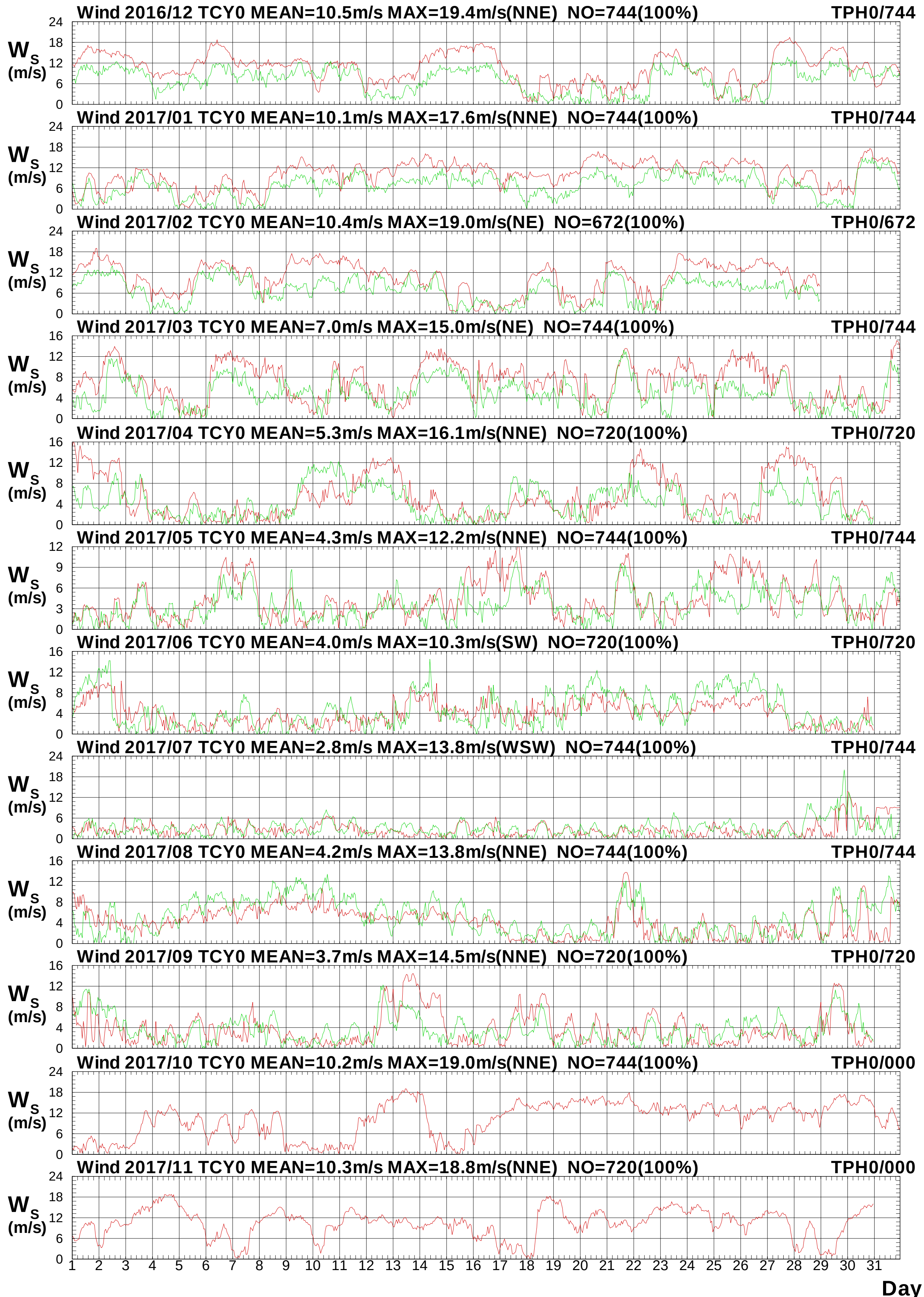

圖1.38a　2017年每月中雲海域 Y 站與北苗海域 H 站風速圖

W16CTCY0.1HA W16CTPH0.1H0 W171TCY0.1HA W171TPH0.1H0 W172TCY0.1HA W172TPH0.1H0
W173TCY0.1HA W173TPH0.1H0 W174TCY0.1HA W174TPH0.1H0 W175TCY0.1HA W175TPH0.1H0

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Wind Direction in Chung-Yun Seas of TCY0 at 2017

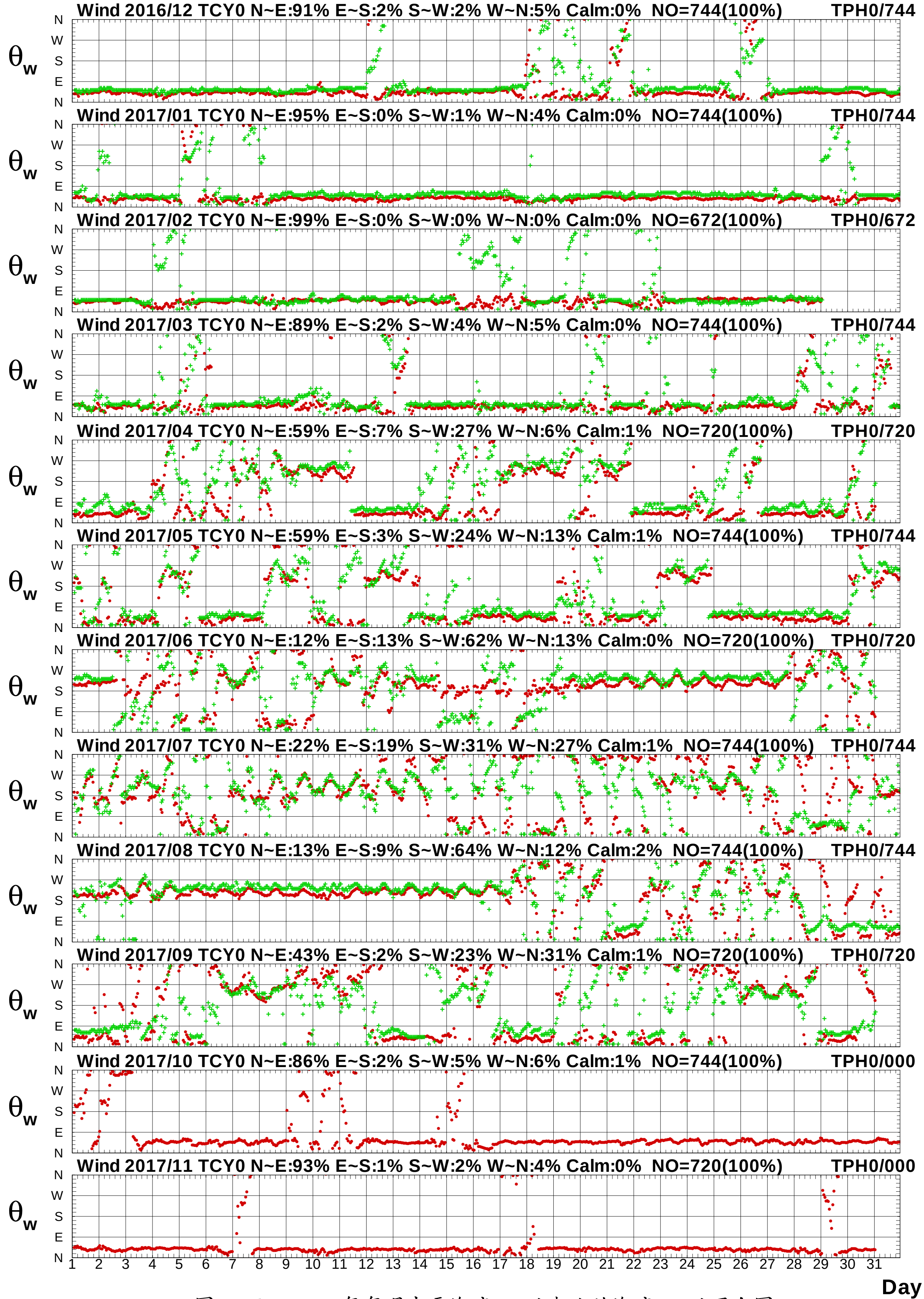

圖1.38b 2017年每月中雲海域 Y 站與北苗海域 H 站風向圖

W16CTCY0.1HA W16CTPH0.1H0 W171TCY0.1HA W171TPH0.1H0 W172TCY0.1HA W172TPH0.1H0
W173TCY0.1HA W173TPH0.1H0 W174TCY0.1HA W174TPH0.1H0 W175TCY0.1HA W175TPH0.1H0

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Wind Speed in Chung-Yun Seas of TCY0 at 2017

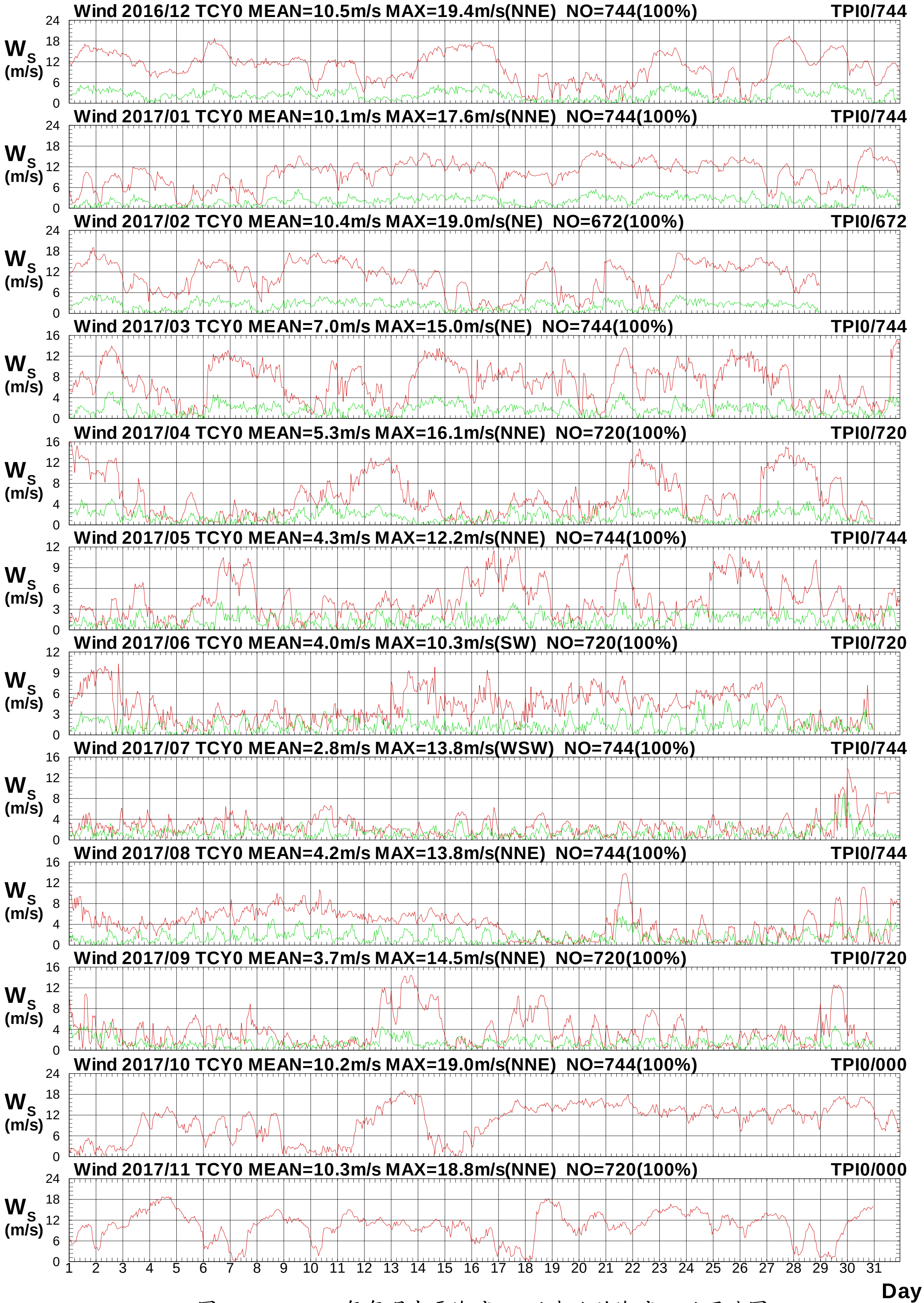

圖1.39a　2017年每月中雲海域 Y 站與北苗海域 I 站風速圖

W16CTCY0.1HA W16CTPI0.1H0 W171TCY0.1HA W171TPI0.1H0 W172TCY0.1HA W172TPI0.1H0
W173TCY0.1HA W173TPI0.1H0 W174TCY0.1HA W174TPI0.1H0 W175TCY0.1HA W175TPI0.1H0

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Wind Direction in Chung-Yun Seas of TCY0 at 2017

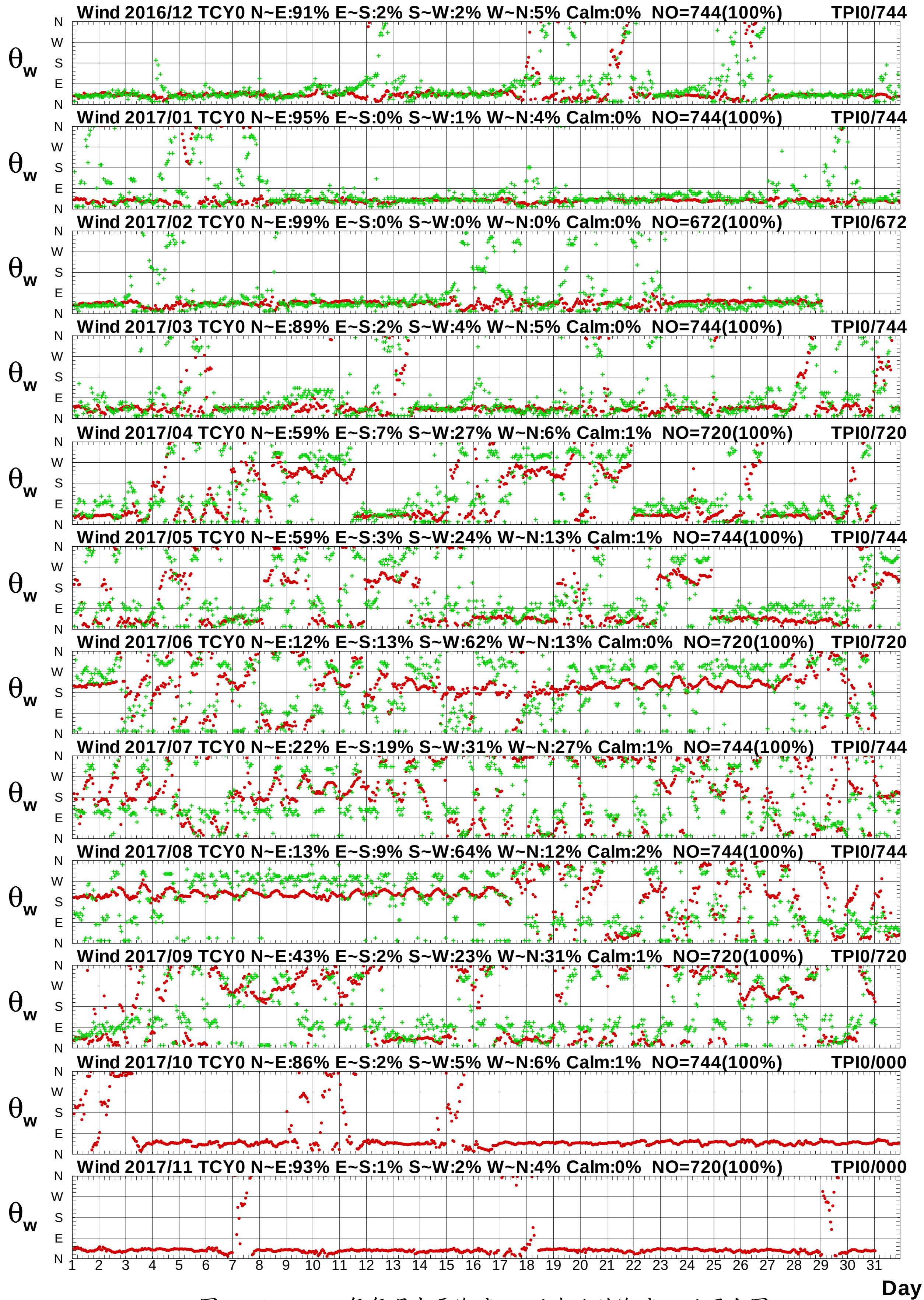

圖1.39b　2017年每月中雲海域 Y 站與北苗海域 I 站風向圖

W16CTCY0.1HA W16CTPI0.1H0 W171TCY0.1HA W171TPI0.1H0 W172TCY0.1HA W172TPI0.1H0
W173TCY0.1HA W173TPI0.1H0 W174TCY0.1HA W174TPI0.1H0 W175TCY0.1HA W175TPI0.1H0

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Wind Speed in Chung-Yun Seas of TCY0 at 2017

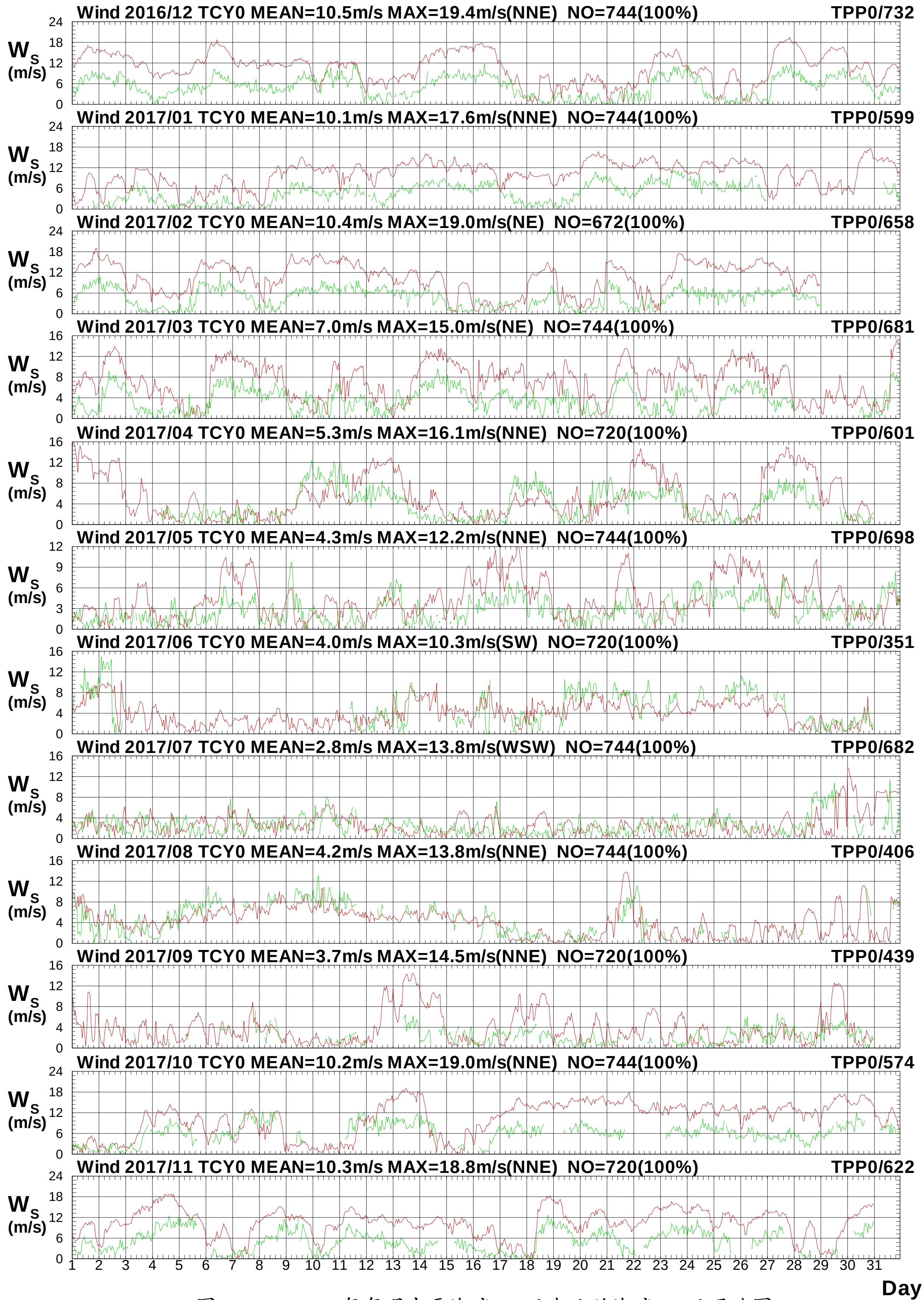

圖1.40a　2017年每月中雲海域 Y 站與北苗海域 P 站風速圖

W16CTCY0.1HA W16CTPP0.1H0 W171TCY0.1HA W171TPP0.1H0 W172TCY0.1HA W172TPP0.1H0 W173TCY0.1HA W173TPP0.1H0 W174TCY0.1HA W174TPP0.1H0 W175TCY0.1HA W175TPP0.1H0	Institute of Harbor & Marine Technology

Wind Direction in Chung-Yun Seas of TCY0 at 2017

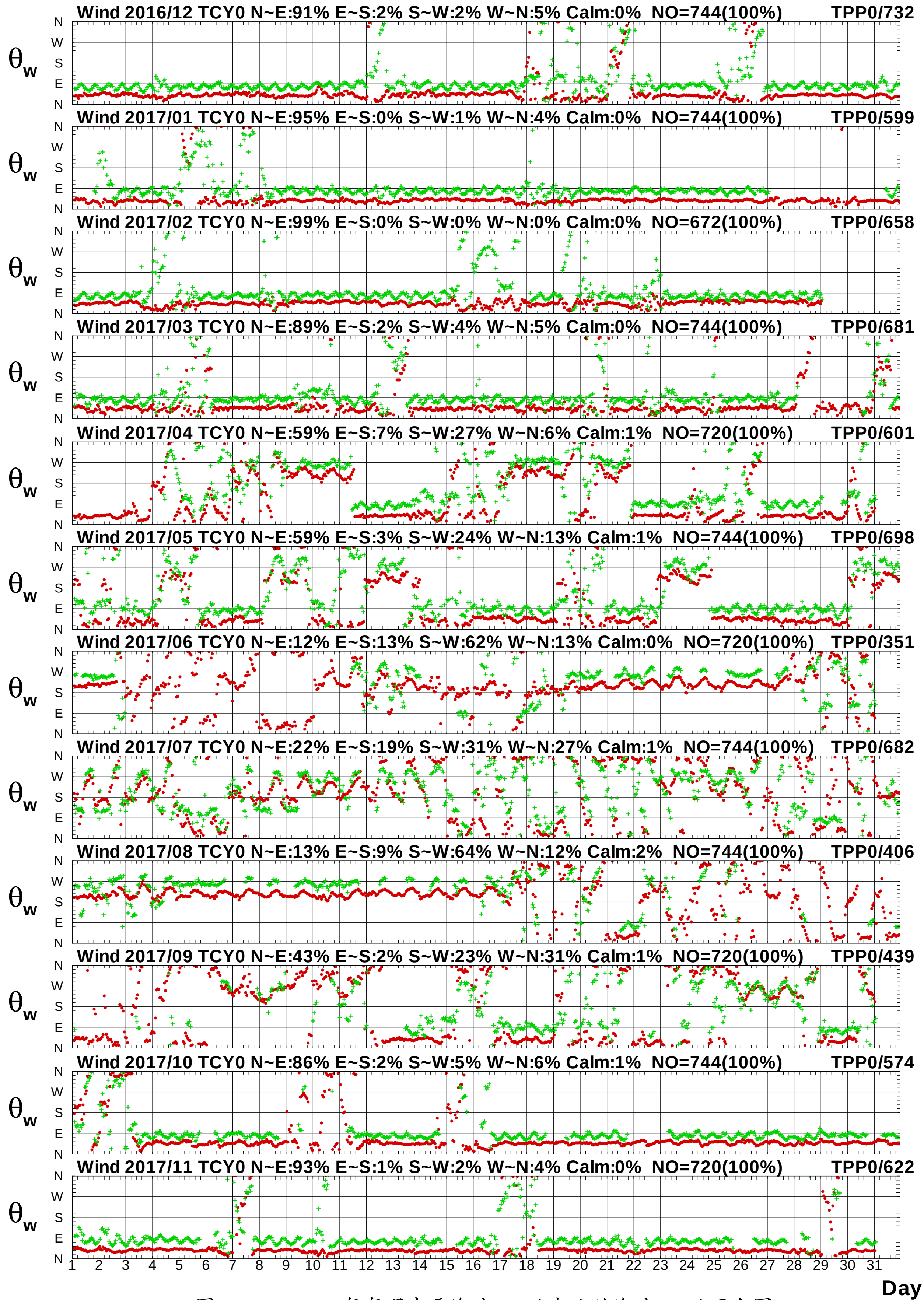

圖1.40b 2017年每月中雲海域 Y 站與北苗海域 P 站風向圖

W16CTCY0.1HA W16CTPP0.1H0 W171TCY0.1HA W171TPP0.1H0 W172TCY0.1HA W172TPP0.1H0
W173TCY0.1HA W173TPP0.1H0 W174TCY0.1HA W174TPP0.1H0 W175TCY0.1HA W175TPP0.1H0

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Wind Speed in Chung-Yun Seas of TCY0 at 2017

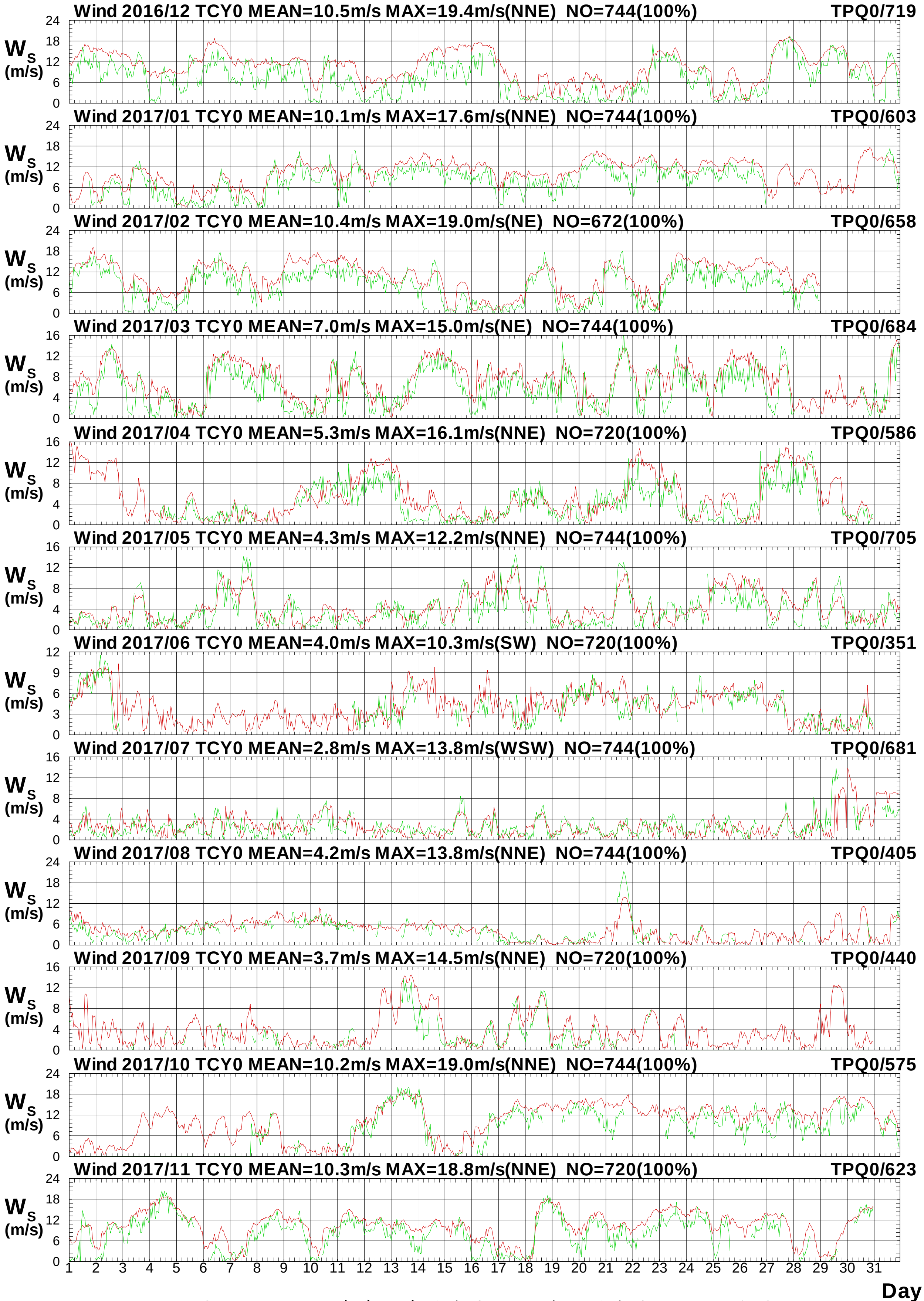

圖1.41a　2017年每月中雲海域 Y 站與北苗海域 Q 站風速圖

W16CTCY0.1HA W16CTPQ0.1H0 W171TCY0.1HA W171TPQ0.1H0 W172TCY0.1HA W172TPQ0.1H0
W173TCY0.1HA W173TPQ0.1H0 W174TCY0.1HA W174TPQ0.1H0 W175TCY0.1HA W175TPQ0.1H0

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Wind Direction in Chung-Yun Seas of TCY0 at 2017

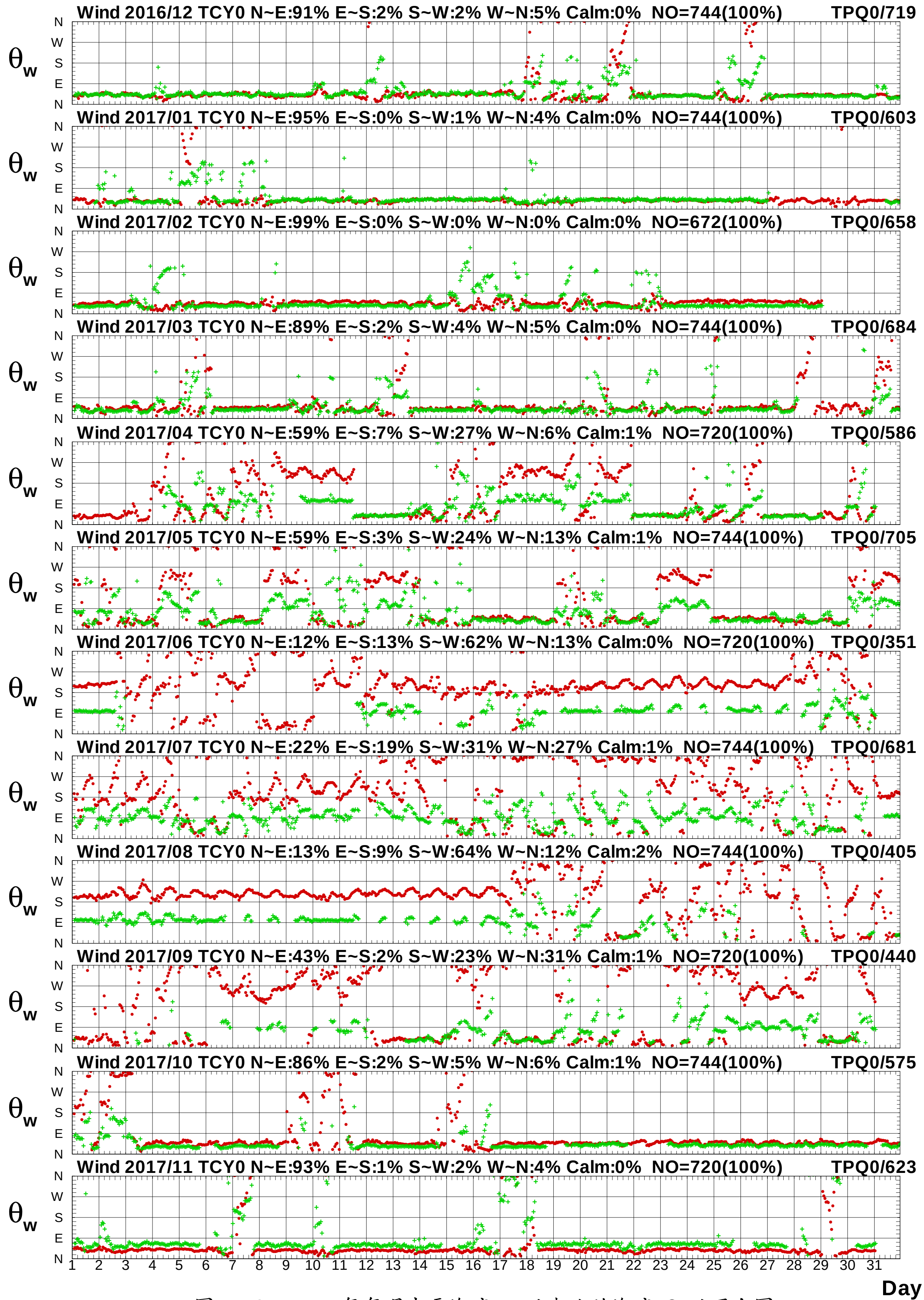

圖1.41b　2017年每月中雲海域 Y 站與北苗海域 Q 站風向圖

W16CTCY0.1HA W16CTPQ0.1H0 W171TCY0.1HA W171TPQ0.1H0 W172TCY0.1HA W172TPQ0.1H0
W173TCY0.1HA W173TPQ0.1H0 W174TCY0.1HA W174TPQ0.1H0 W175TCY0.1HA W175TPQ0.1H0

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第二章　2017 年中雲海域觀測波浪資料

中雲海域波浪觀測包括**測站 X、測站 Y、測站 Z、測站 R 及測站 U** 等 5 個測站(測站位置如第 O 章圖 VG1)。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年每月中雲海域修補前各測站觀測波浪資料紀錄統計表

海域 年月/測站	中雲海域 Y	中雲海域 X	中雲海域 Z	中雲海域 R	中雲海域	中雲海域	中雲海域	中雲海域
2016/12月	493(66.3%)	*	731(98.3%)	249(33.5%)	*	*	*	*
2017/ 1月	*	*	736(98.9%)	61(8.2%)	*	*	*	*
2017/ 2月	*	*	669(99.6%)	563(83.8%)	*	*	*	*
2017/ 3月	*	*	739(99.3%)	723(97.2%)	*	*	*	*
2017/ 4月	*	*	709(98.5%)	692(96.1%)	*	*	*	*
2017/ 5月	*	*	740(99.5%)	719(96.6%)	*	*	*	*
2017/ 6月	*	*	707(98.2%)	667(92.6%)	*	*	*	*
2017/ 7月	*	414(55.6%)	733(98.5%)	721(96.9%)	*	*	*	*
2017/ 8月	*	730(98.1%)	734(98.7%)	687(92.3%)	*	*	*	*
2017/ 9月	*	542(75.3%)	228(31.7%)	230(31.9%)	*	*	*	*
2017/10月	*	*	*	*	*	*	*	*
2017/11月	*	*	*	*	*	*	*	*
2017/冬季	493(22.8%)	*	2136(98.9%)	873(40.4%)	*	*	*	*
2017/春季	*	*	2188(99.1%)	2134(96.6%)	*	*	*	*
2017/夏季	*	1144(51.8%)	2174(98.5%)	2075(94.0%)	*	*	*	*
2017/秋季	*	542(24.8%)	228(10.4%)	230(10.5%)	*	*	*	*
2017/整年	493(5.6%)	1686(19.2%)	6726(76.8%)	5312(60.6%)	*	*	*	*
起始年月	2016/12	2017/07	2016/12	2016/12	*	*	*	*
結束年月	2016/12	2017/09	2017/09	2017/09	*	*	*	*

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表2.1b 2017年每月中雲海域修補後各測站波浪資料統計表

海域 年月/測站	中雲海域 Y	中雲海域	中雲海域	中雲海域	中雲海域	中雲海域	中雲海域	中雲海域
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年中雲海域主要測站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	0																		
2017/01	0																		
2017/02	0																		
2017/03	0																		
2017/04	0																		
2017/05	0																		
2017/06	0																		
2017/07	56%	.91	3.1/ 7.7/NNE	5.6	12.1	4.3	84.8	9.7	1.2	51.2	44.0	3.9	1.0	56%	11.6	.2	22.0	66.2	W /33%
2017/08	98%	1.03	3.2/ 8.4/NNE	5.5	12.2	2.5	88.2	8.8	.5	56.7	35.1	7.1	1.1	98%	22.1	1.1	13.6	63.3	W /42%
2017/09	75%	1.37	3.3/ 8.9/NNE	7.4	13.7	2.6	61.1	35.6	.7	25.8	38.7	21.0	14.4	75%	76.2	.7	3.3	19.7	NNE/47%
2017/10	0																		
2017/11	0																		
2017/冬	0																		
2017/春	0																		
2017/夏	52%	.99	3.2/ 8.4/NNE	5.7	38.7	3.1	87.0	9.1	.8	54.0	37.5	5.9	2.6	52%	18.3	.8	16.6	64.3	W /39%
2017/秋	25%	1.37	3.3/ 8.9/NNE	7.4	13.7	2.4	61.1	35.8	.7	25.8	38.7	21.0	14.4	25%	76.2	.7	3.3	19.7	NNE/47%
2017/年	19%	1.11	3.3/ 8.9/NNE	6.3	38.7	2.9	78.6	17.7	.8	45.0	37.9	10.7	6.4	19%	36.9	.8	12.3	50.0	W /27%

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表2.2b　2017年中雲海域主要測站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%	2.48	7.8/10.8/NNE	7.6	10.8	.0	24.7	50.1	25.1	3.4	64.7	31.0	.9	100%	78.0	.0	.3	21.8	N /49%
2017/01	100%	2.05	4.9/ 8.8/NNE	7.4	8.8	.0	20.7	72.8	6.5	4.8	68.4	26.7	.0	100%	97.2	1.1	1.1	.7	NNE/77%
2017/02	100%	2.09	4.3/ 8.8/NNE	7.3	9.8	.6	23.1	63.1	13.2	4.9	77.1	18.0	.0	100%	97.2	.0	.0	2.8	NNE/77%
2017/03	100%	1.51	4.7/ 9.7/NNE	6.8	10.0	.0	55.4	41.9	2.7	9.9	78.1	11.7	.3	100%	95.7	.0	.0	4.3	NNE/74%
2017/04	100%	1.83	5.8/10.1/NNE	6.6	10.6	.0	45.8	41.1	13.1	25.3	64.9	9.0	.8	100%	81.1	.3	.0	18.6	NNE/50%
2017/05	100%	.82	2.1/ 6.8/N	5.5	7.2	11.6	85.8	2.7	.0	65.7	34.3	.0	.0	100%	60.1	.1	2.6	37.2	N /65%
2017/06	100%	.85	2.3/ 6.9/W	5.9	8.8	21.3	72.8	6.0	.0	49.0	47.1	3.9	.0	100%	20.7	.0	13.9	65.4	W /45%
2017/07	100%	.65	3.1/ 7.7/NNE	5.5	12.1	44.8	49.2	5.4	.7	61.2	36.2	2.2	.5	100%	8.3	.1	19.4	72.2	W /36%
2017/08	100%	1.02	3.2/ 8.4/NNE	5.5	12.2	3.5	87.4	8.6	.5	57.5	34.4	7.0	1.1	100%	21.9	1.1	13.6	63.4	W /42%
2017/09	100%	1.22	3.3/ 8.9/NNE	7.1	13.7	9.0	61.1	29.3	.6	32.6	40.4	16.1	10.8	100%	70.4	.6	2.5	26.5	NNE/44%
2017/10	100%	3.65	7.8/ 9.8/NNE	8.3	10.6	.0	5.0	26.1	69.0	.3	39.1	59.3	1.3	100%	94.4	.0	.8	4.8	NNE/58%
2017/11	100%	3.19	8.2/10.3/N	8.1	10.4	.0	3.3	44.9	51.8	.1	49.7	49.2	1.0	100%	99.6	.0	.0	.4	NNE/59%
2017/冬	100%	2.22	7.8/10.8/NNE	7.4	10.8	.2	22.8	61.9	15.1	4.4	69.8	25.5	.3	100%	90.6	.4	.5	8.6	NNE/66%
2017/春	100%	1.38	5.8/10.1/NNE	6.3	10.6	3.9	62.5	28.4	5.2	33.7	59.0	6.9	.4	100%	78.9	.1	.9	20.1	NNE/48%
2017/夏	100%	.84	3.2/ 8.4/NNE	5.7	38.7	23.2	69.7	6.7	.4	55.6	38.7	4.3	1.4	100%	16.9	.4	15.6	67.0	W /41%
2017/秋	100%	2.70	8.8/10.3/WNW	7.8	13.7	2.9	22.9	33.3	40.8	10.9	43.0	41.7	4.3	100%	88.2	.2	1.1	10.5	NNE/54%
2017/年	100%	1.78	8.8/10.3/WNW	6.8	38.7	7.6	44.7	32.4	15.3	26.3	52.6	19.5	1.6	100%	68.5	.3	4.5	26.7	NNE/44%

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表2.3a　2017年中雲海域主要測站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	66%	2.48	5.7/ 7.4/NNE	5.7	7.5	.0	28.6	38.9	32.5	58.4	41.6	.0	.0	66%	98.6	.0	.4	1.0	NNE/63%
2017/01	0																		
2017/02	0																		
2017/03	0																		
2017/04	0																		
2017/05	0																		
2017/06	0																		
2017/07	0																		
2017/08	0																		
2017/09	0																		
2017/10	0																		
2017/11	0																		
2017/冬	23%	2.48	5.7/ 7.4/NNE	5.7	7.5	.0	28.6	38.9	32.5	58.4	41.6	.0	.0	23%	98.6	.0	.4	1.0	NNE/63%
2017/春	0																		
2017/夏	0																		
2017/秋	0																		
2017/年	6%	2.48	5.7/ 7.4/NNE	5.7	7.5	.0	28.6	38.9	32.5	58.4	41.6	.0	.0	6%	98.6	.0	.4	1.0	NNE/63%

表2.3b　2017年中雲海域主要測站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%	3.56	13.2/ 8.8/NE	6.0	8.8	.0	20.8	29.7	49.5	47.0	51.7	1.2	.0	100%	99.1	.0	.3	.7	NNE/52%
2017/01	100%	2.53	6.7/ 6.6/SW	5.8	6.6	.0	15.2	54.2	30.6	59.3	40.7	.0	.0	100%	.7	.0	98.1	1.2	SW /78%
2017/02	100%	2.94	6.9/ 7.1/NNE	5.7	7.9	6.3	12.5	31.3	50.0	63.1	36.9	.0	.0	100%	98.8	.0	.0	1.2	NNE/67%
2017/03	100%	1.32	3.5/ 6.7/NNE	5.2	7.2	2.4	64.8	31.6	1.2	91.1	8.9	.0	.0	100%	95.7	.0	1.6	2.7	NNE/74%
2017/04	100%	1.89	6.9/ 5.8/NNE	4.8	6.0	1.0	44.9	35.4	18.8	99.9	.1	.0	.0	100%	81.1	.3	5.6	13.1	NNE/54%
2017/05	100%	.81	2.4/ 4.5/N	4.2	4.5	16.9	77.7	5.4	.0	100.0	.0	.0	.0	100%	29.6	.0	6.5	64.0	N /84%
2017/06	100%	.81	2.5/ 4.6/SW	4.3	5.6	27.4	66.0	6.7	.0	100.0	.0	.0	.0	100%	20.7	.0	58.5	20.8	SW /37%
2017/07	100%	.54	2.8/ 4.8/NNE	4.1	5.8	52.7	42.6	4.7	.0	100.0	.0	.0	.0	100%	8.3	.7	77.2	13.8	WSW/51%
2017/08	100%	.88	2.9/ 5.1/NNE	4.2	8.0	7.1	85.2	7.7	.0	98.5	1.3	.1	.0	100%	21.9	1.7	73.7	2.7	SSW/39%
2017/09	100%	1.20	3.5/ 5.8/NNE	5.1	7.6	17.2	52.9	29.0	.8	85.6	14.4	.0	.0	100%	70.4	.0	25.1	4.4	NNE/44%
2017/10	100%	5.76	13.0/ 7.4/NNE	6.6	7.8	.0	2.3	9.7	88.0	5.2	94.8	.0	.0	100%	95.0	.0	.7	4.3	NNE/61%
2017/11	100%	4.85	13.5/ 7.5/NNE	6.2	7.5	.0	1.1	11.4	87.5	23.5	76.5	.0	.0	100%	99.7	.0	.0	.3	NNE/94%
2017/冬	100%	3.01	13.2/ 8.8/NE	5.9	8.8	1.9	16.3	38.6	43.1	56.3	43.3	.4	.0	100%	65.1	.0	33.9	1.0	NNE/39%
2017/春	100%	1.34	6.9/ 5.8/NNE	4.7	7.2	6.8	62.6	24.0	6.5	97.0	3.0	.0	.0	100%	68.7	.1	4.5	26.7	NNE/43%
2017/夏	100%	.74	2.9/ 5.1/NNE	4.2	8.0	29.1	64.6	6.3	.0	99.5	.5	.0	.0	100%	16.9	.8	69.9	12.4	SW /27%
2017/秋	100%	3.95	13.5/ 7.5/NNE	6.0	7.8	5.7	18.6	16.6	59.1	37.7	62.3	.0	.0	100%	88.5	.0	8.5	3.0	NNE/66%
2017/年	100%	2.25	13.5/ 7.5/NNE	5.2	8.8	10.9	40.7	21.3	27.0	72.8	27.1	.1	.0	100%	59.7	.2	29.2	10.9	NNE/39%

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Wave H_s in Chung-Yun Seas of TCX0 at 2017

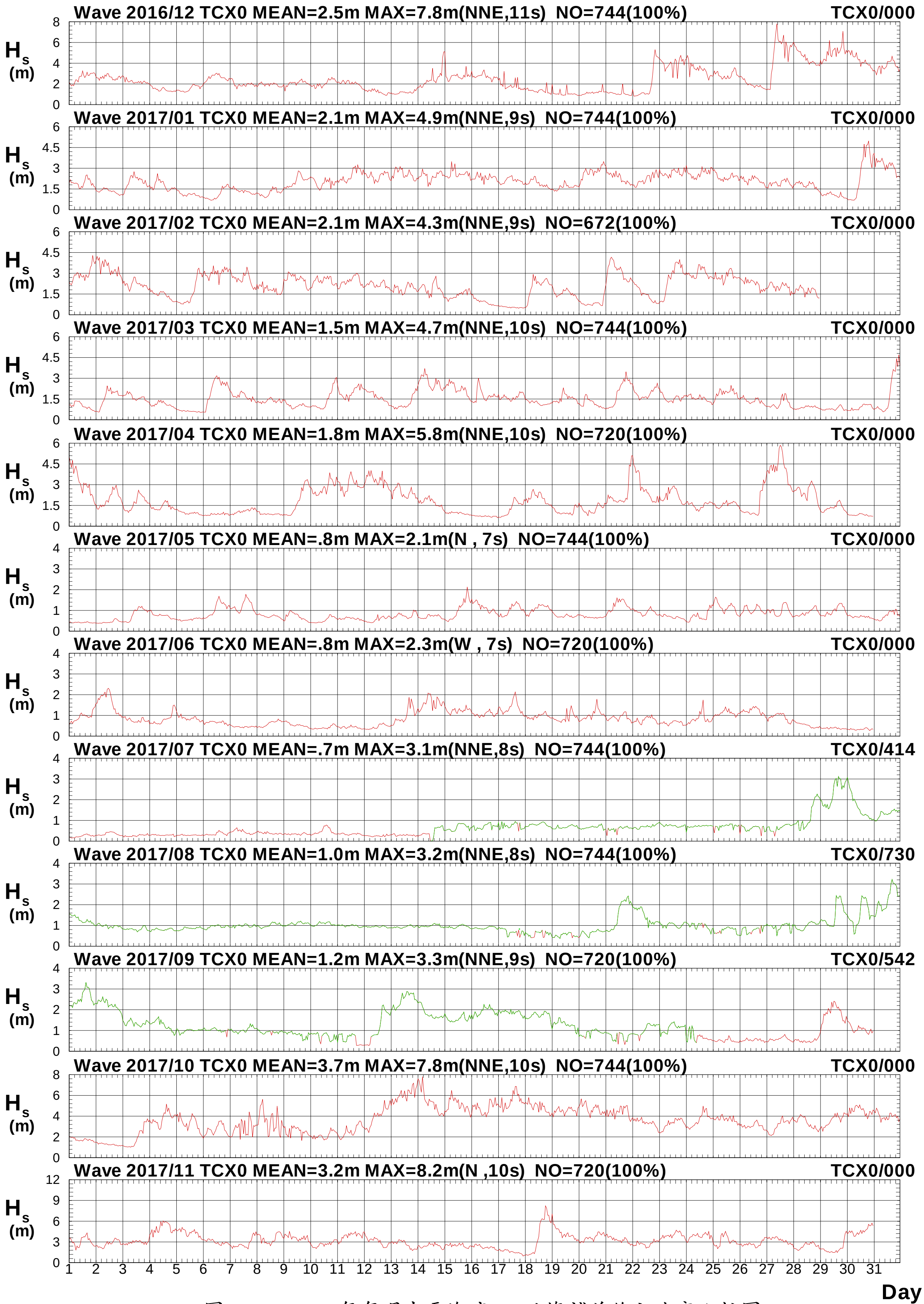

圖2.1a　2017年每月中雲海域 X 站修補前後之波高比較圖

V16CTCX0.1HA V16CTCX0.1H0 V171TCX0.1HA V171TCX0.1H0 V172TCX0.1HA V172TCX0.1H0
V173TCX0.1HA V173TCX0.1H0 V174TCX0.1HA V174TCX0.1H0 V175TCX0.1HA V175TCX0.1H0

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Wave T_p in Chung-Yun Seas of TCX0 at 2017

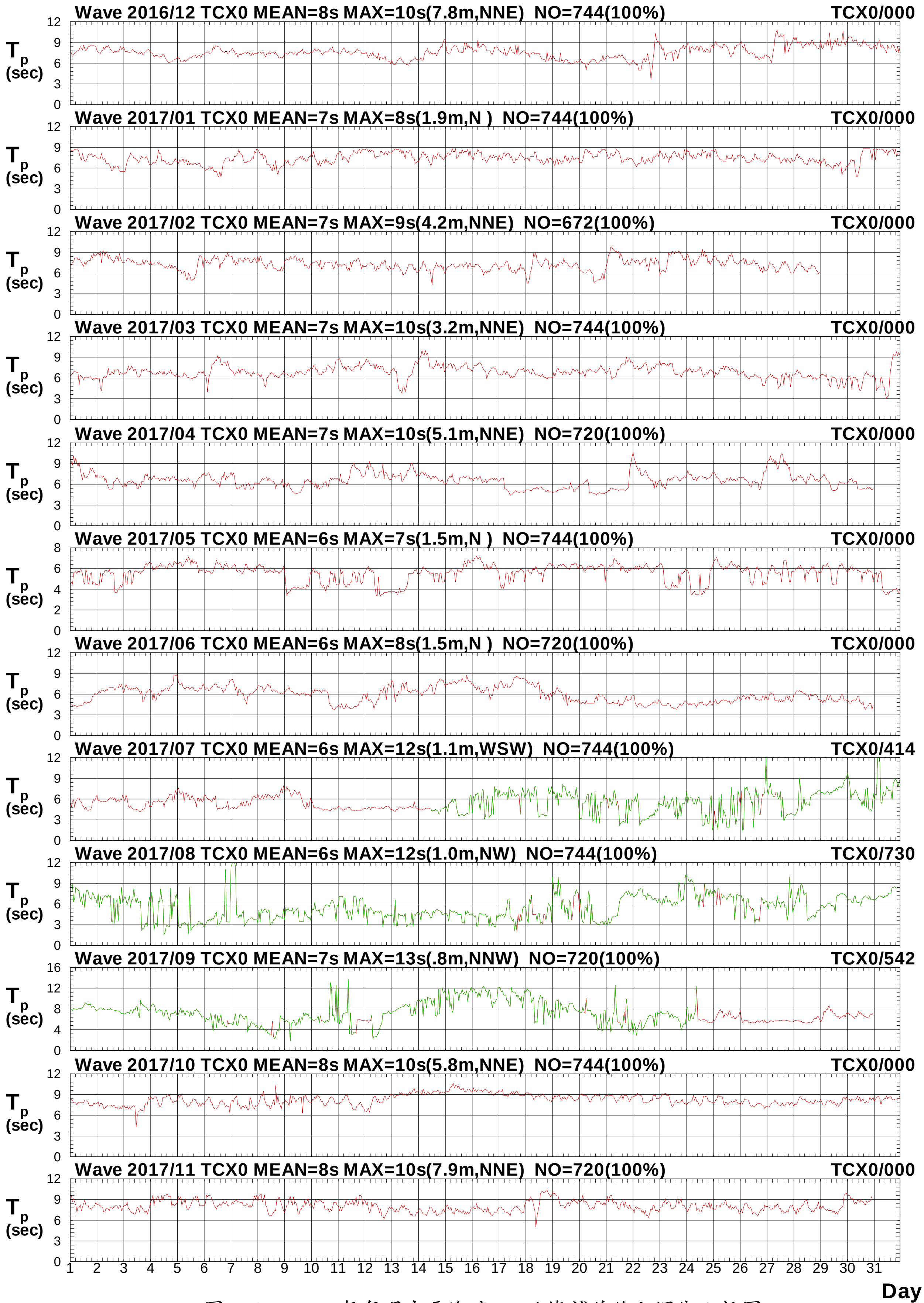

圖2.1b　2017年每月中雲海域 X 站修補前後之週期比較圖

V16CTCX0.1HA V16CTCX0.1H0 V171TCX0.1HA V171TCX0.1H0 V172TCX0.1HA V172TCX0.1H0
V173TCX0.1HA V173TCX0.1H0 V174TCX0.1HA V174TCX0.1H0 V175TCX0.1HA V175TCX0.1H0

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Wave Direction in Chung-Yun Seas of TCX0 at 2017

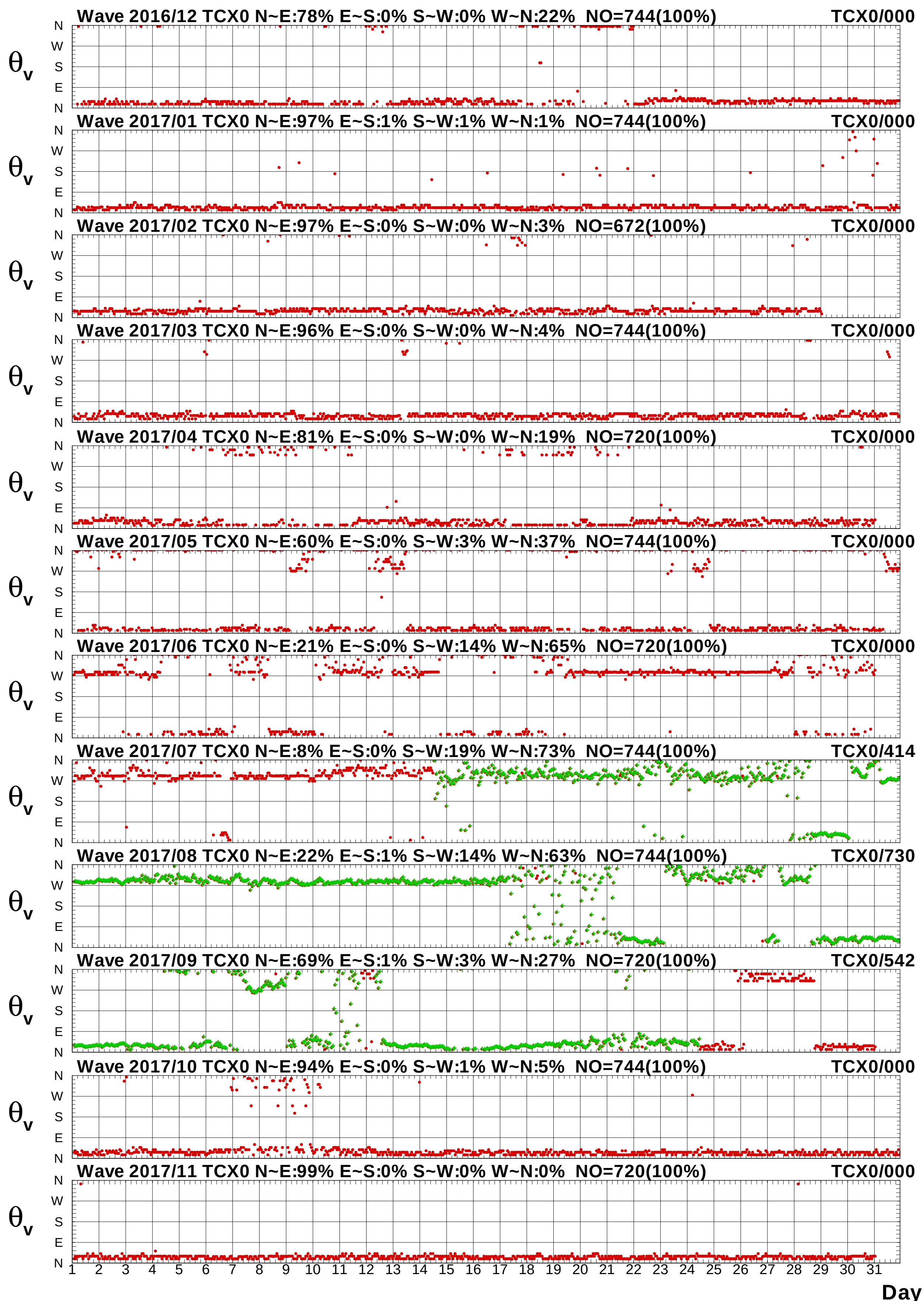

圖2.1c　2017年每月中雲海域 X 站修補前後之波向比較圖

V16CTCX0.1HA V16CTCX0.1H0 V171TCX0.1HA V171TCX0.1H0 V172TCX0.1HA V172TCX0.1H0
V173TCX0.1HA V173TCX0.1H0 V174TCX0.1HA V174TCX0.1H0 V175TCX0.1HA V175TCX0.1H0

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Wave H_s in Chung-Yun Seas of TCX0 at 2017

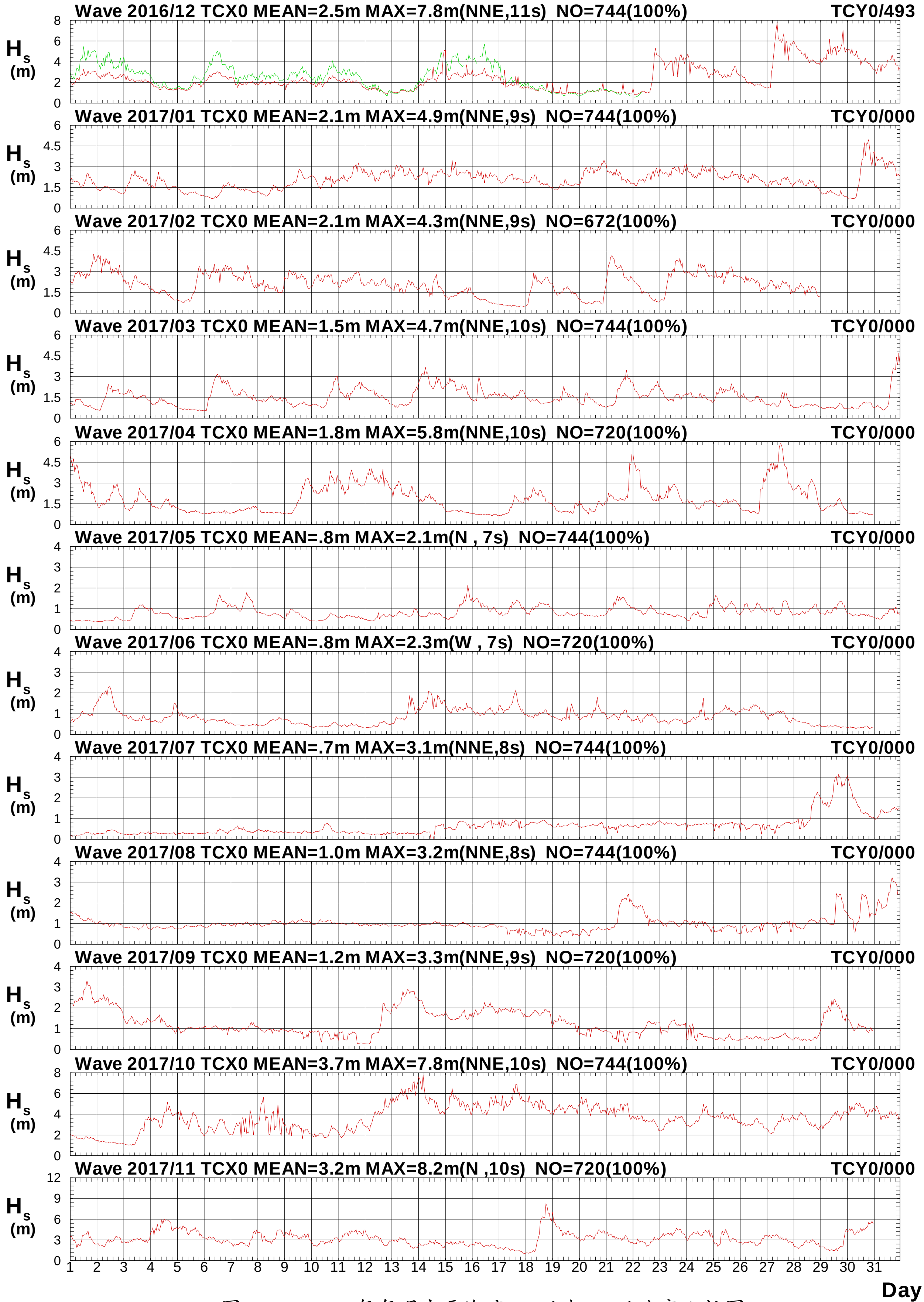

圖2.2a　2017年每月中雲海域 X 站與 Y 站波高比較圖

V16CTCX0.1HA V16CTCY0.1H0 V171TCX0.1HA V171TCY0.1H0 V172TCX0.1HA V172TCY0.1H0
V173TCX0.1HA V173TCY0.1H0 V174TCX0.1HA V174TCY0.1H0 V175TCX0.1HA V175TCY0.1H0

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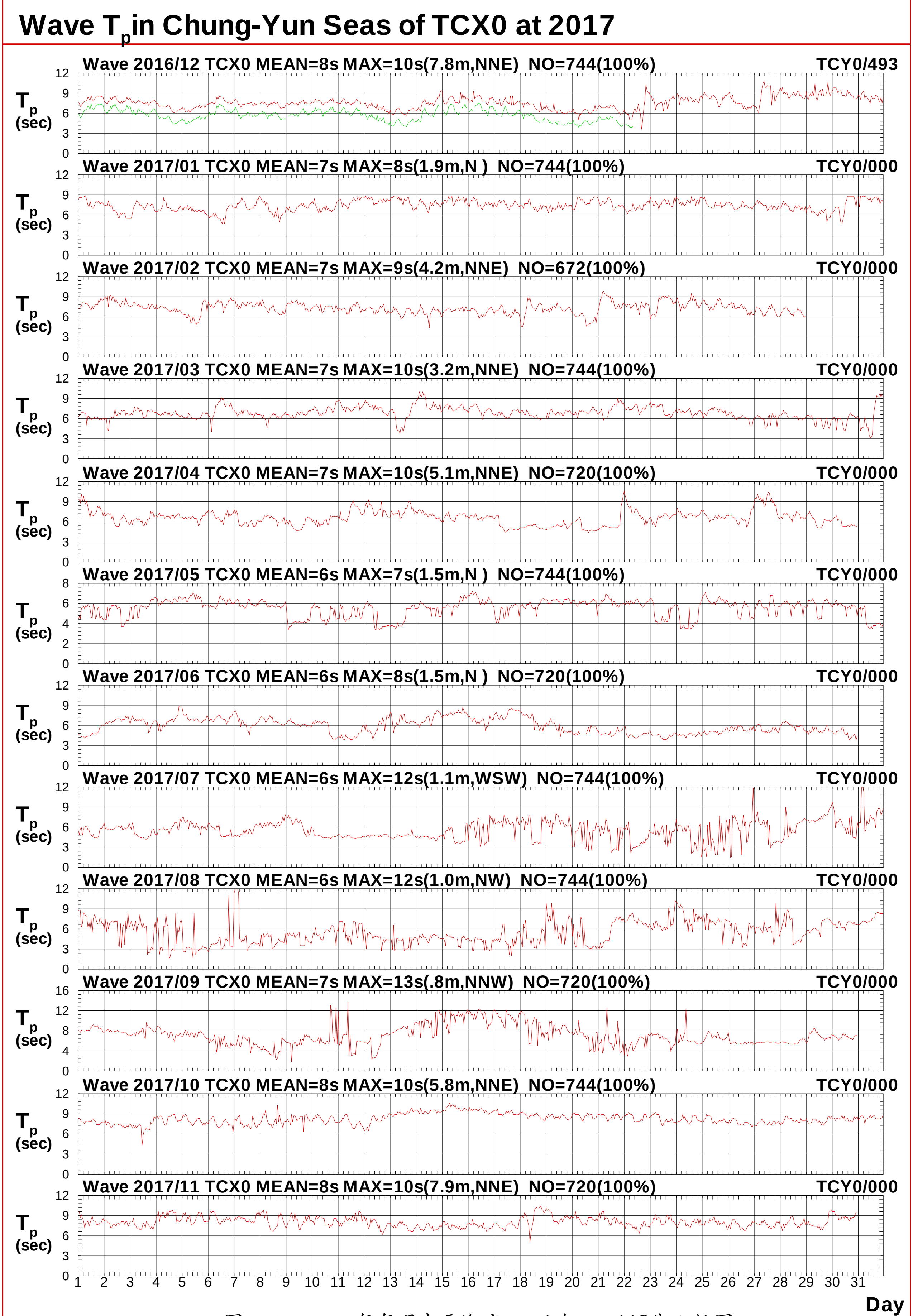

圖2.2b　2017年每月中雲海域 X 站與 Y 站週期比較圖

V16CTCX0.1HA V16CTCY0.1H0 V171TCX0.1HA V171TCY0.1H0 V172TCX0.1HA V172TCY0.1H0
V173TCX0.1HA V173TCY0.1H0 V174TCX0.1HA V174TCY0.1H0 V175TCX0.1HA V175TCY0.1H0

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Wave Direction in Chung-Yun Seas of TCX0 at 2017

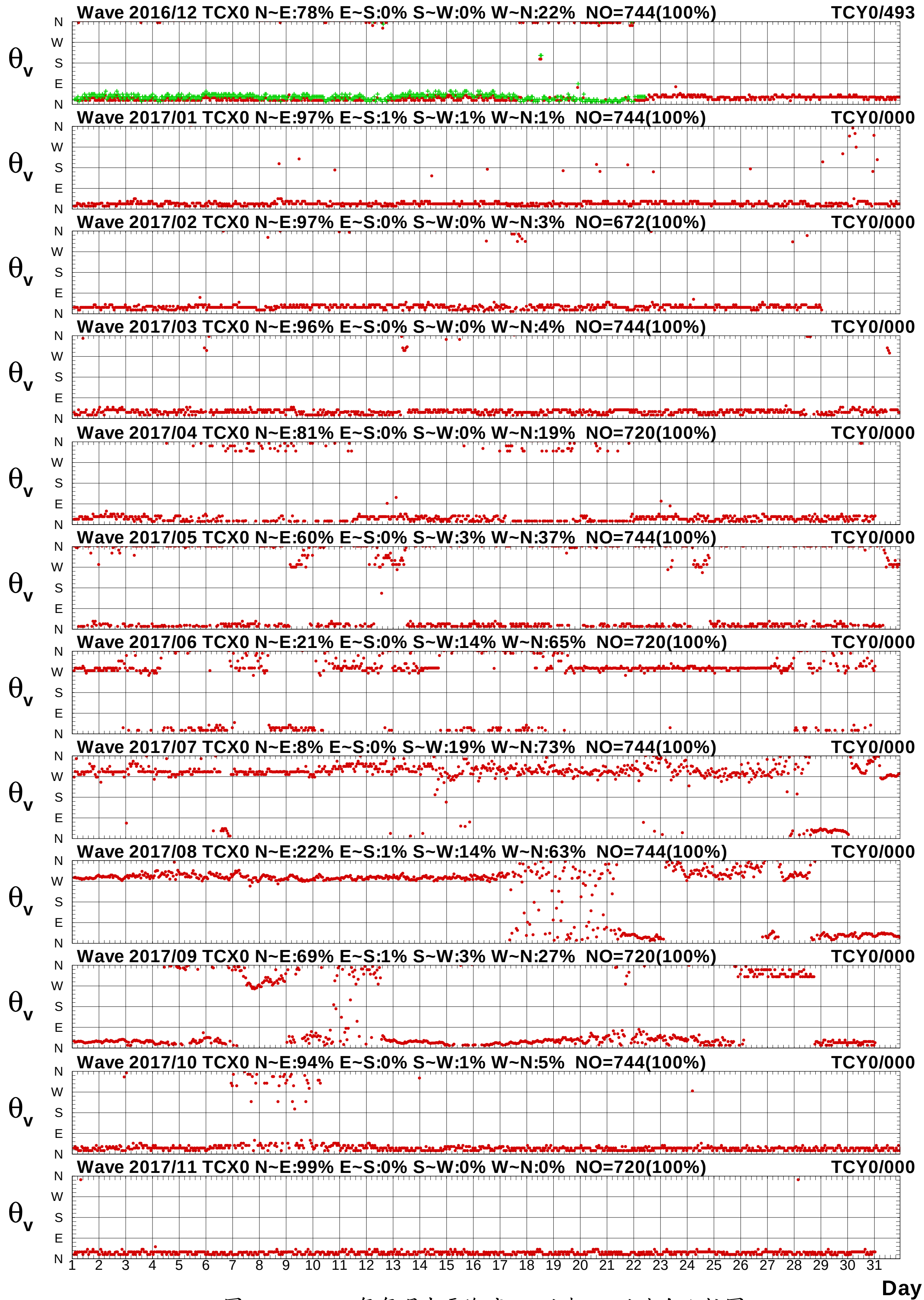

圖2.2c　2017年每月中雲海域 X 站與 Y 站波向比較圖

V16CTCX0.1HA V16CTCY0.1H0 V171TCX0.1HA V171TCY0.1H0 V172TCX0.1HA V172TCY0.1H0
V173TCX0.1HA V173TCY0.1H0 V174TCX0.1HA V174TCY0.1H0 V175TCX0.1HA V175TCY0.1H0

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Wave H_s in Chung-Yun Seas of TCX0 at 2017

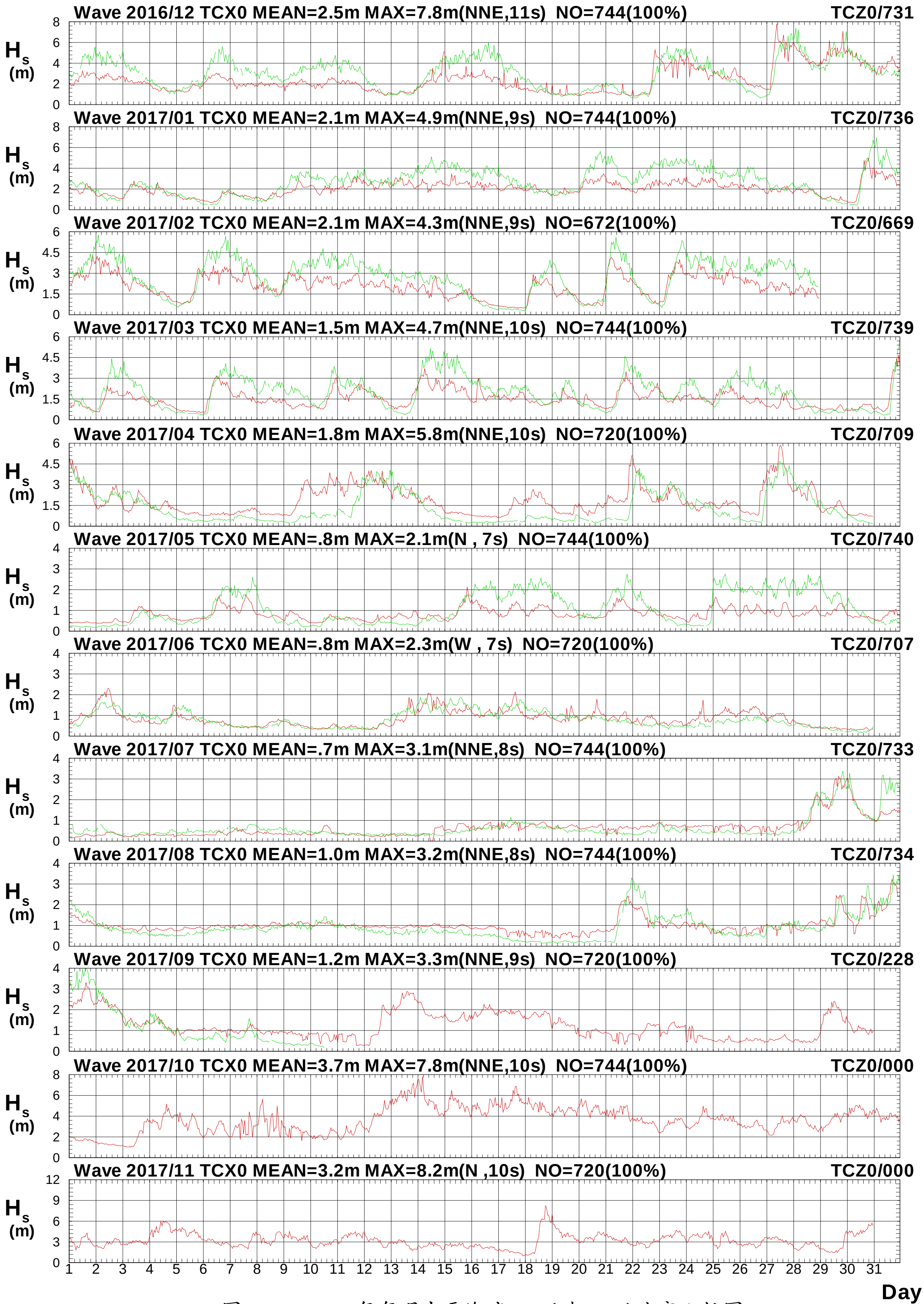

圖2.3a　2017年每月中雲海域 X 站與 Z 站波高比較圖

V16CTCX0.1HA V16CTCZ0.1H0 V171TCX0.1HA V171TCZ0.1H0 V172TCX0.1HA V172TCZ0.1H0
V173TCX0.1HA V173TCZ0.1H0 V174TCX0.1HA V174TCZ0.1H0 V175TCX0.1HA V175TCZ0.1H0

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Wave T_p in Chung-Yun Seas of TCX0 at 2017

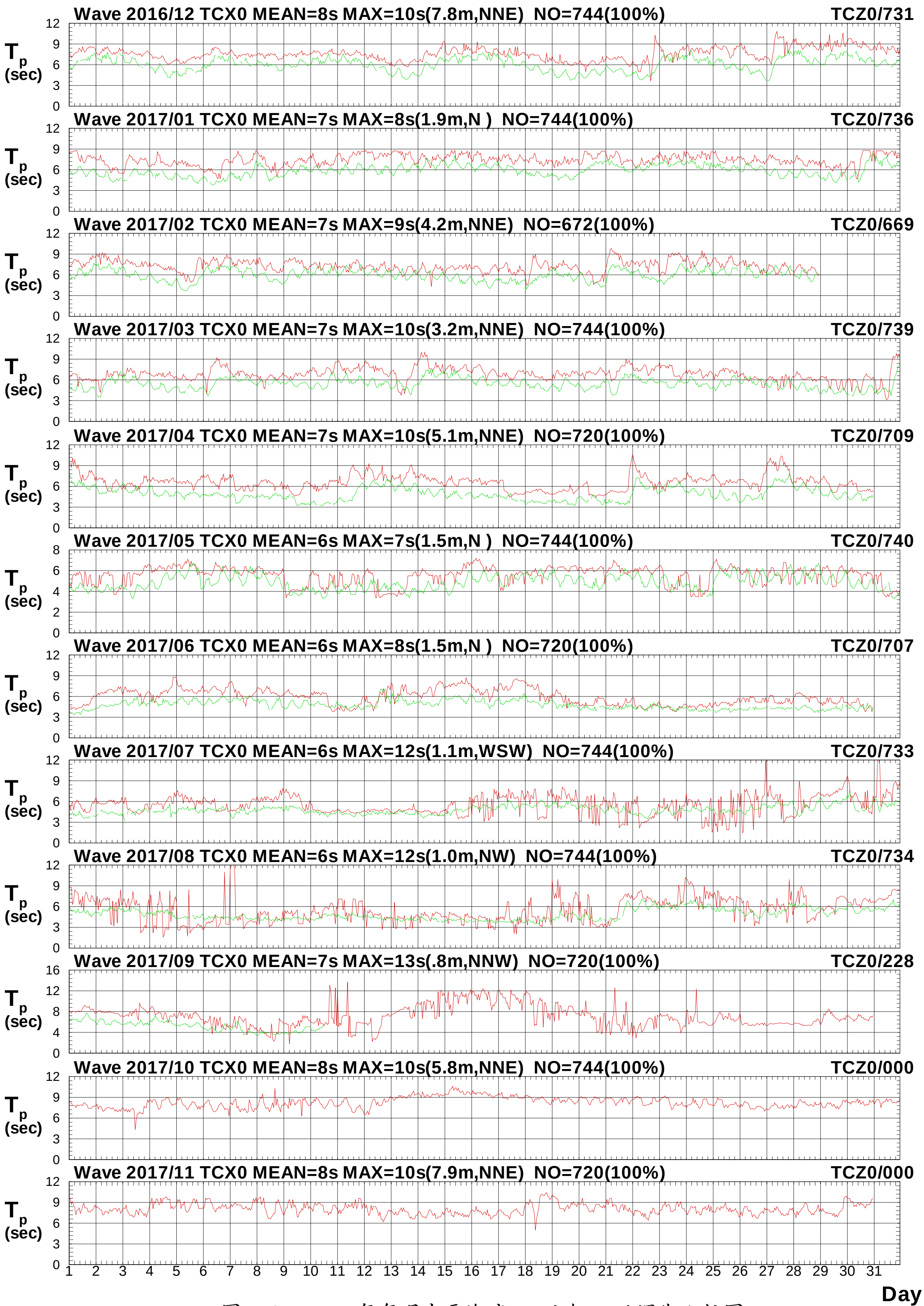

圖2.3b　2017年每月中雲海域 X 站與 Z 站週期比較圖

V16CTCX0.1HA V16CTCZ0.1H0 V171TCX0.1HA V171TCZ0.1H0 V172TCX0.1HA V172TCZ0.1H0

V173TCX0.1HA V173TCZ0.1H0 V174TCX0.1HA V174TCZ0.1H0 V175TCX0.1HA V175TCZ0.1H0

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Wave Direction in Chung-Yun Seas of TCX0 at 2017

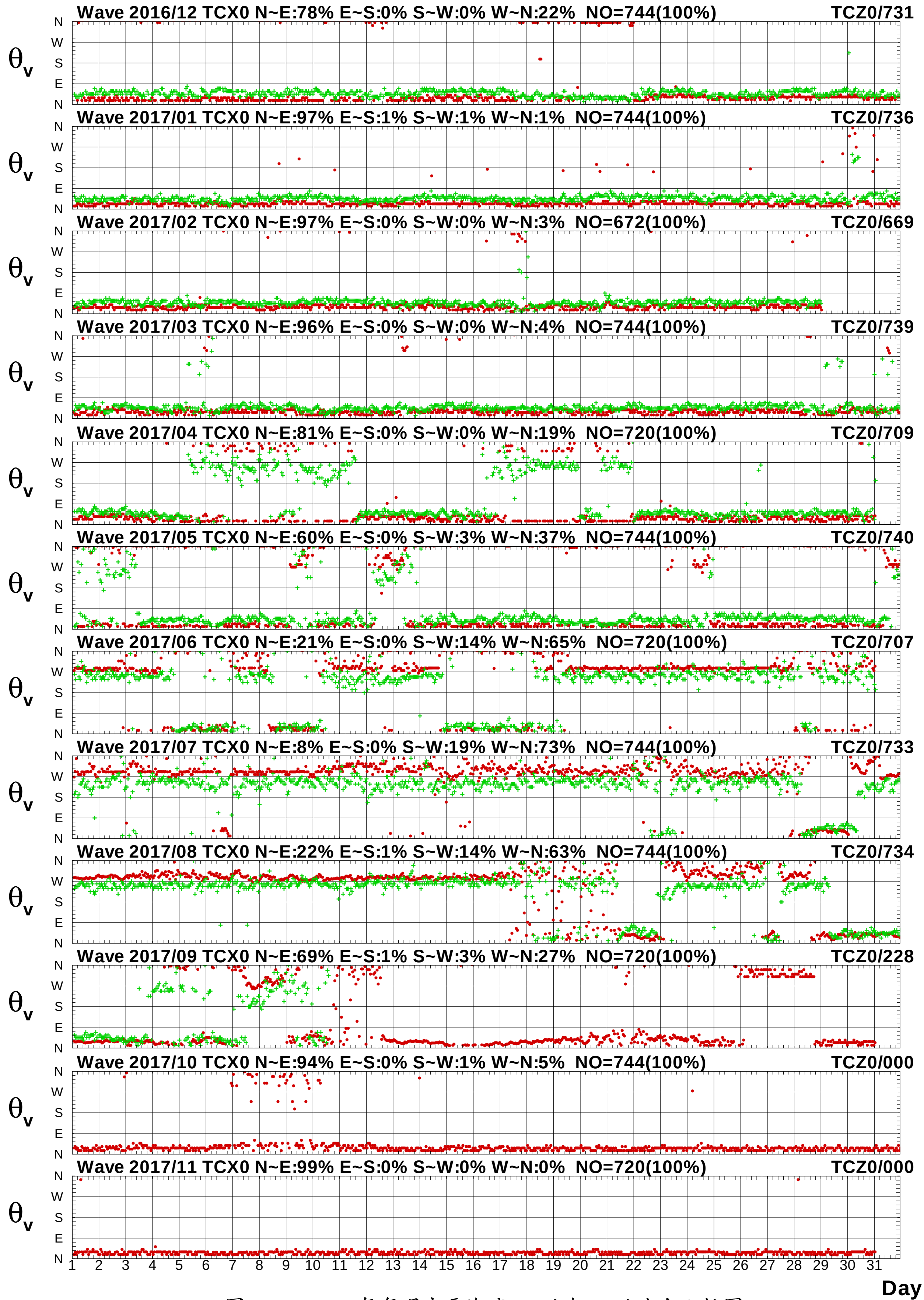

圖2.3c　2017年每月中雲海域 X 站與 Z 站波向比較圖

V16CTCX0.1HA V16CTCZ0.1H0 V171TCX0.1HA V171TCZ0.1H0 V172TCX0.1HA V172TCZ0.1H0 V173TCX0.1HA V173TCZ0.1H0 V174TCX0.1HA V174TCZ0.1H0 V175TCX0.1HA V175TCZ0.1H0	Institute of Harbor & Marine Technology

Wave H_s in Chung-Yun Seas of TCX0 at 2017

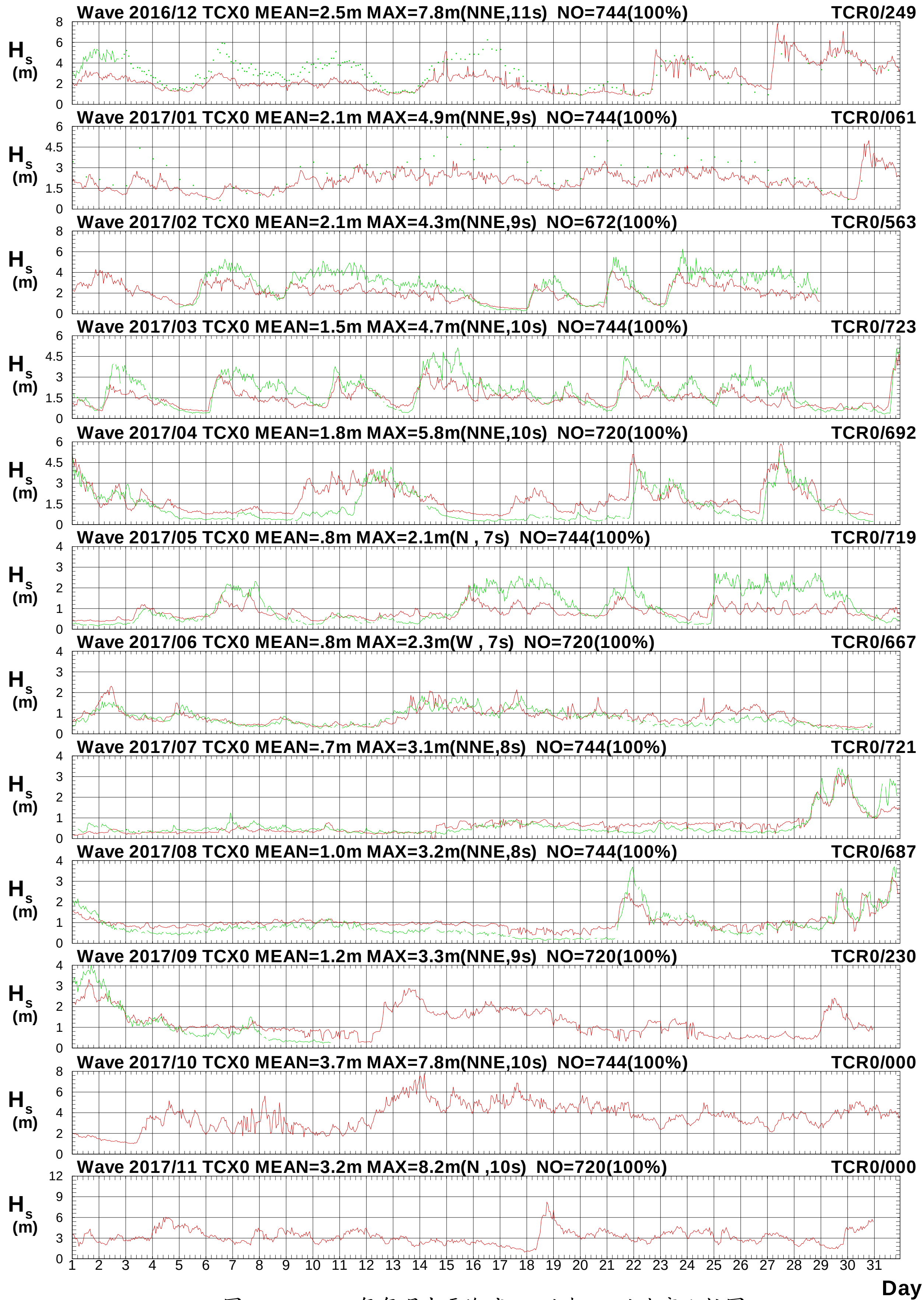

圖2.4a　2017年每月中雲海域 X 站與 R 站波高比較圖

V16CTCX0.1HA V16CTCR0.1H0 V171TCX0.1HA V171TCR0.1H0 V172TCX0.1HA V172TCR0.1H0
V173TCX0.1HA V173TCR0.1H0 V174TCX0.1HA V174TCR0.1H0 V175TCX0.1HA V175TCR0.1H0

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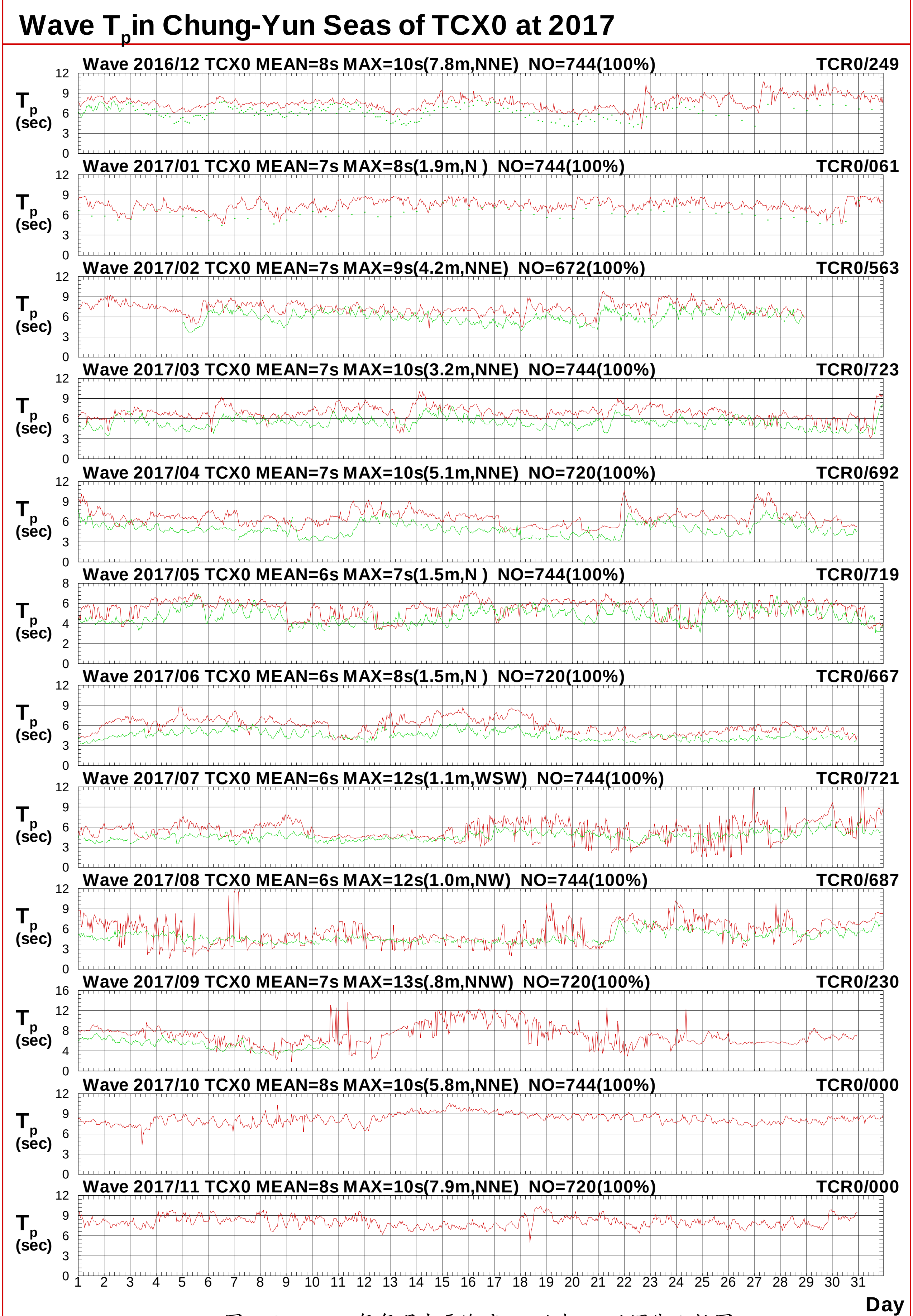

圖2.4b　2017年每月中雲海域 X 站與 R 站週期比較圖

V16CTCX0.1HA V16CTCR0.1H0 V171TCX0.1HA V171TCR0.1H0 V172TCX0.1HA V172TCR0.1H0
V173TCX0.1HA V173TCR0.1H0 V174TCX0.1HA V174TCR0.1H0 V175TCX0.1HA V175TCR0.1H0

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Wave Direction in Chung-Yun Seas of TCX0 at 2017

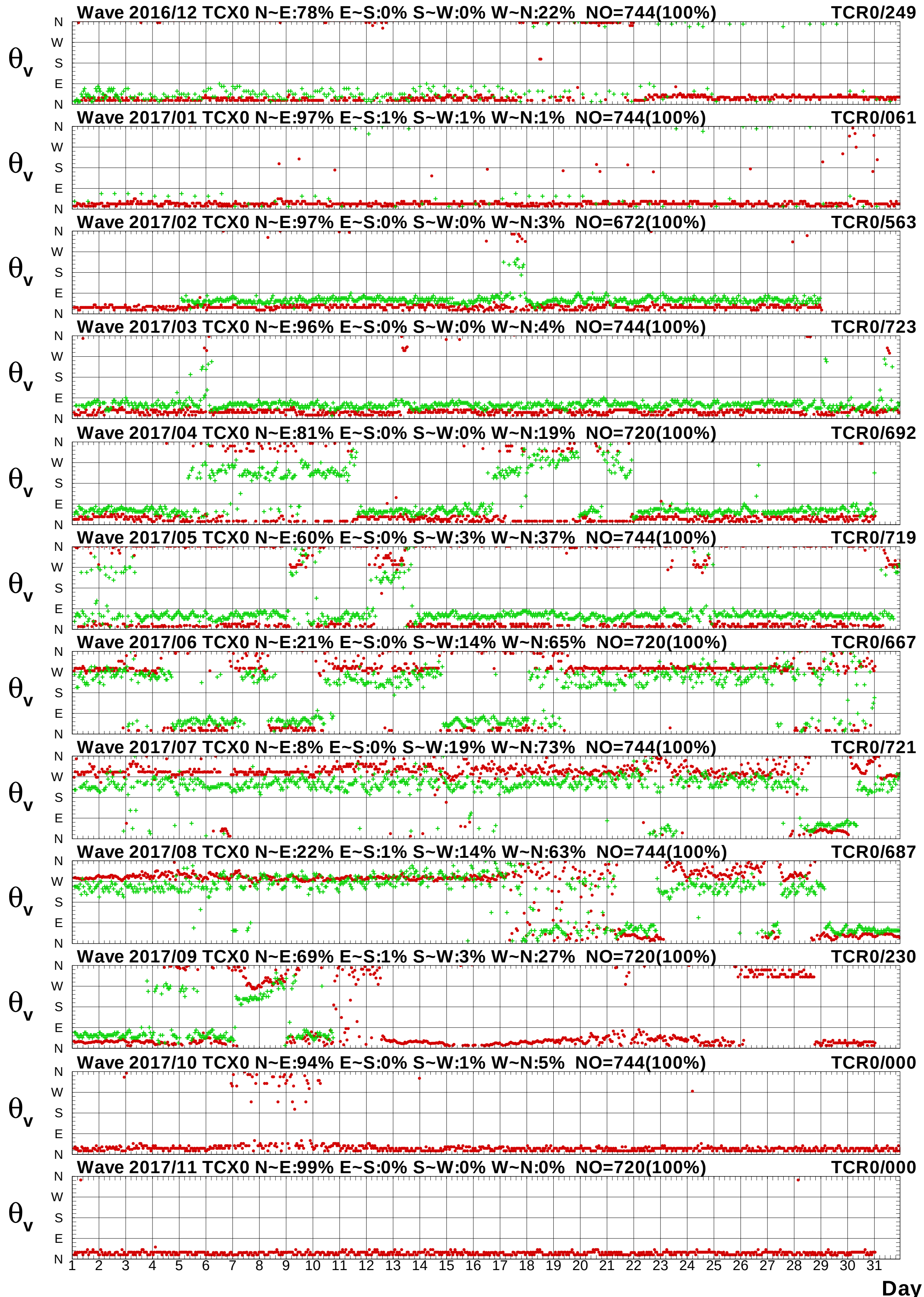

圖2.4c　2017年每月中雲海域 X 站與 R 站波向比較圖

V16CTCX0.1HA V16CTCR0.1H0 V171TCX0.1HA V171TCR0.1H0 V172TCX0.1HA V172TCR0.1H0 V173TCX0.1HA V173TCR0.1H0 V174TCX0.1HA V174TCR0.1H0 V175TCX0.1HA V175TCR0.1H0	Institute of Harbor & Marine Technology

Wave H_s in Chung-Yun Seas of TCX0 at 2017

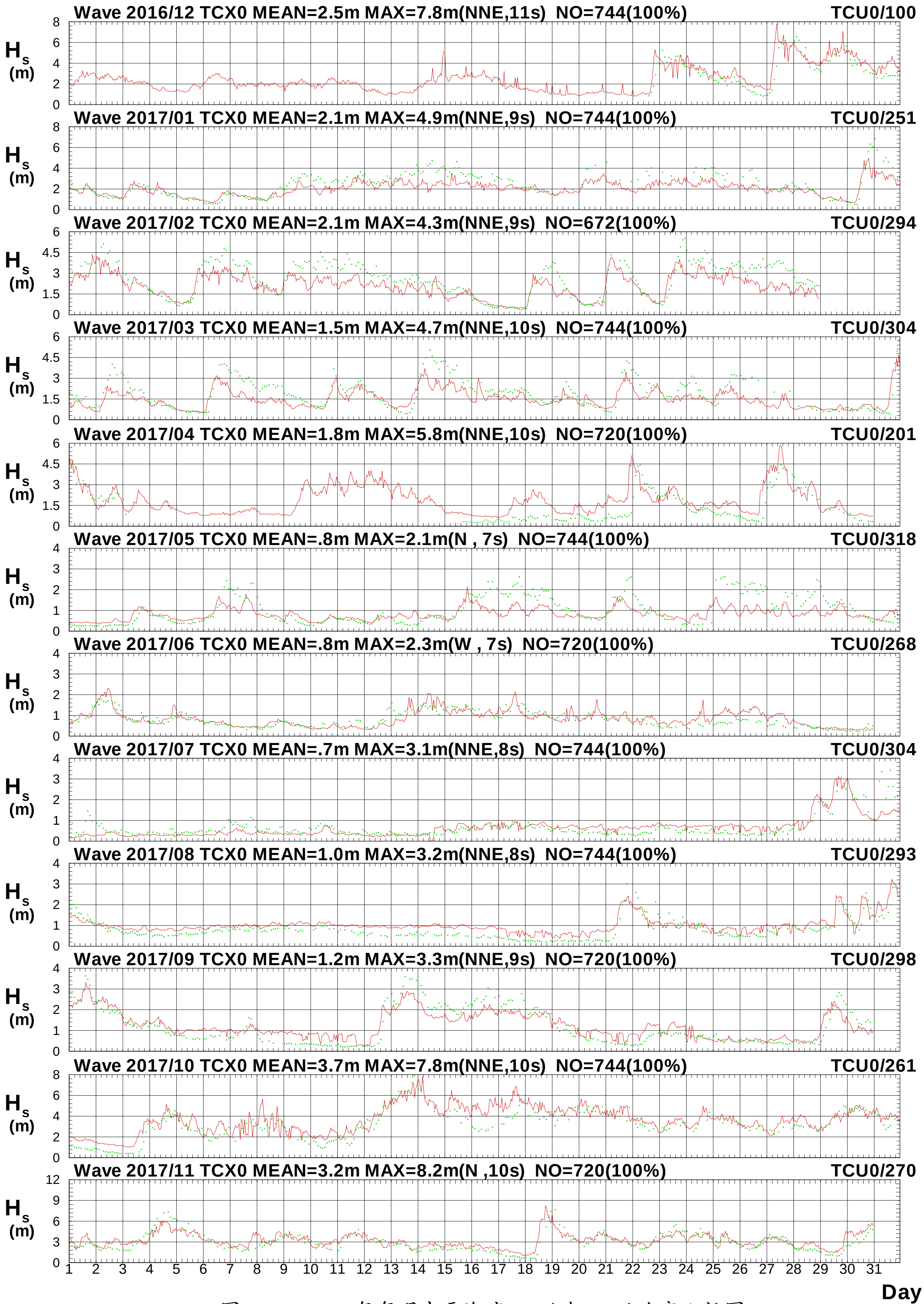

圖2.5a 2017年每月中雲海域 X 站與 U 站波高比較圖

V16CTCX0.1HA V16CTCU0.1H0 V171TCX0.1HA V171TCU0.1H0 V172TCX0.1HA V172TCU0.1H0
V173TCX0.1HA V173TCU0.1H0 V174TCX0.1HA V174TCU0.1H0 V175TCX0.1HA V175TCU0.1H0

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Wave T_p in Chung-Yun Seas of TCX0 at 2017

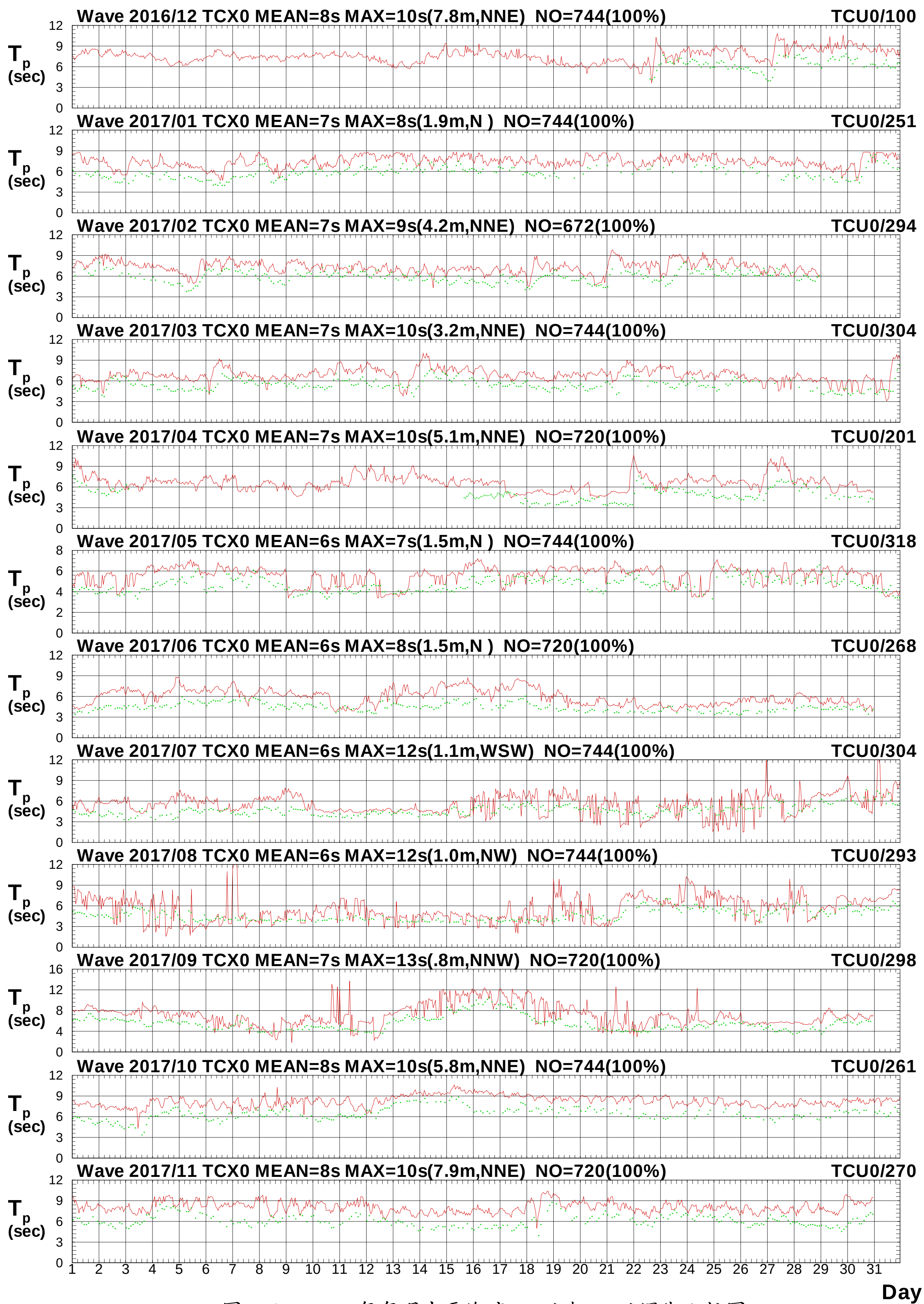

圖2.5b　2017年每月中雲海域 X 站與 U 站週期比較圖

V16CTCX0.1HA V16CTCU0.1H0 V171TCX0.1HA V171TCU0.1H0 V172TCX0.1HA V172TCU0.1H0 V173TCX0.1HA V173TCU0.1H0 V174TCX0.1HA V174TCU0.1H0 V175TCX0.1HA V175TCU0.1H0	Institute of Harbor & Marine Technology

Wave Direction in Chung-Yun Seas of TCX0 at 2017

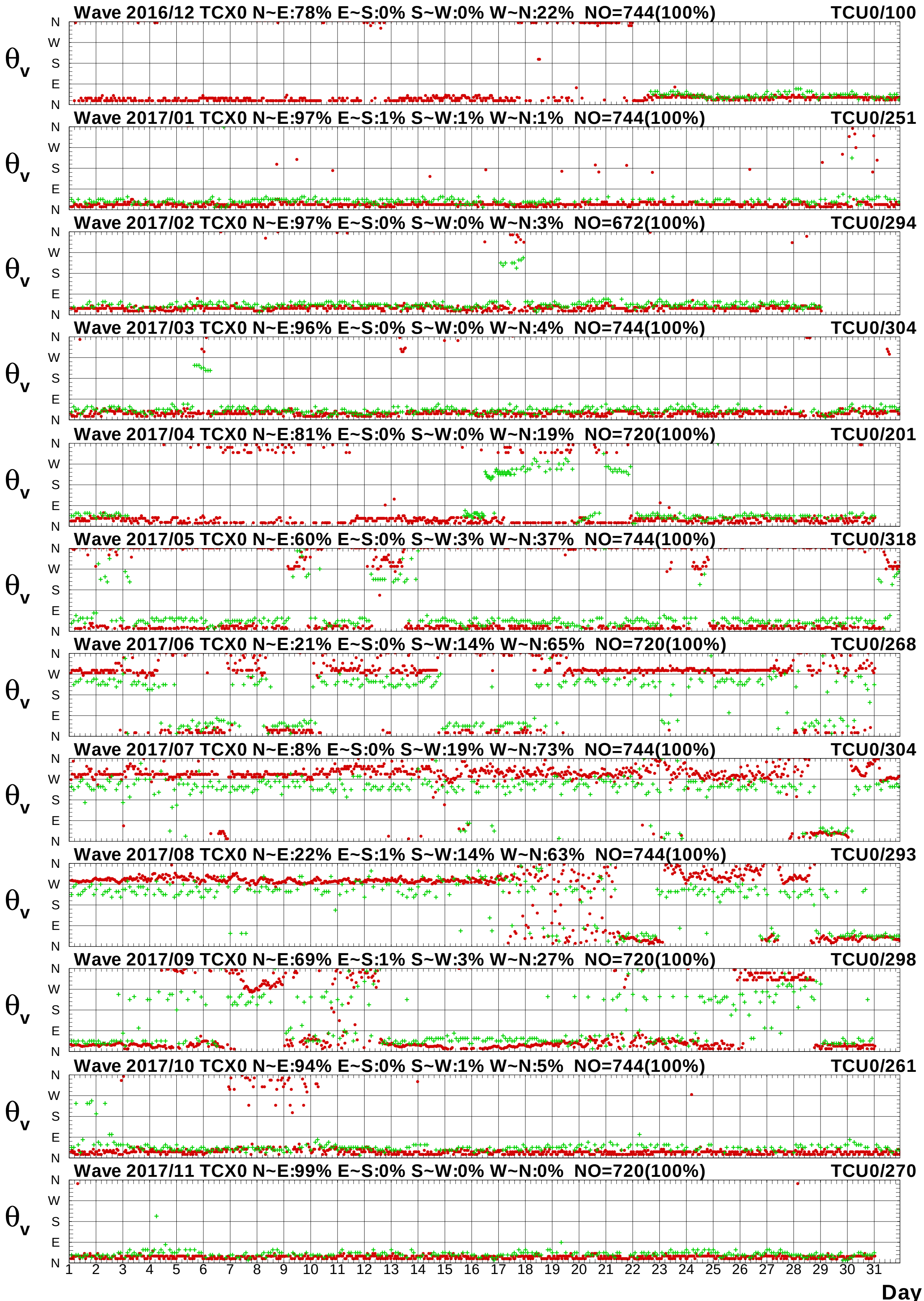

圖2.5c 2017年每月中雲海域 X 站與 U 站波向比較圖

V16CTCX0.1HA V16CTCU0.1H0 V171TCX0.1HA V171TCU0.1H0 V172TCX0.1HA V172TCU0.1H0
V173TCX0.1HA V173TCU0.1H0 V174TCX0.1HA V174TCU0.1H0 V175TCX0.1HA V175TCU0.1H0

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Wave H_s in Chung-Yun Seas of TCX0 at 2017

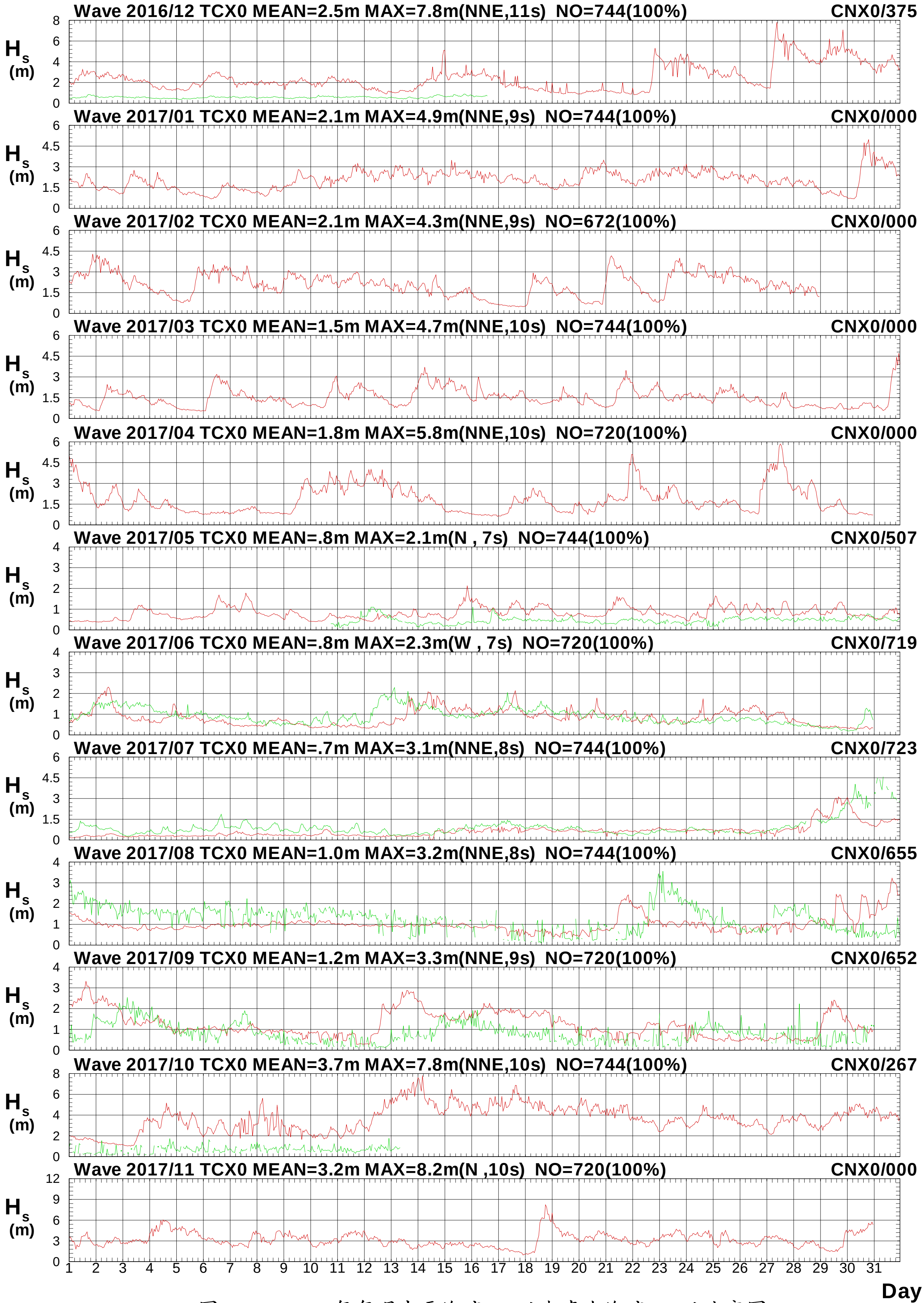

圖2.6a　2017年每月中雲海域 X 站與嘉南海域 X 站波高圖

V16CTCX0.1HA V16CCNX0.1H0 V171TCX0.1HA V171CNX0.1H0 V172TCX0.1HA V172CNX0.1H0
V173TCX0.1HA V173CNX0.1H0 V174TCX0.1HA V174CNX0.1H0 V175TCX0.1HA V175CNX0.1H0

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Wave T_p in Chung-Yun Seas of TCX0 at 2017

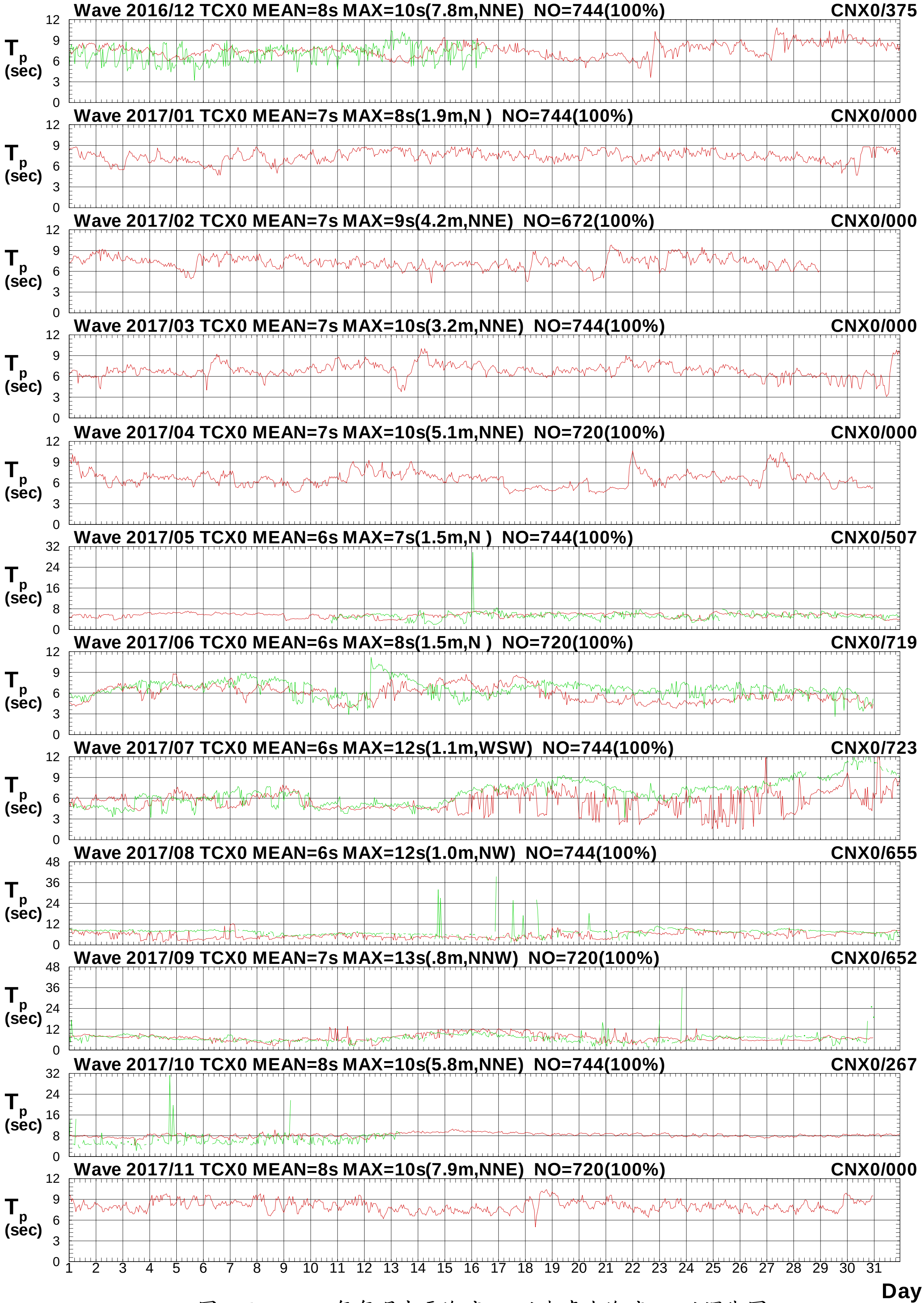

圖2.6b　2017年每月中雲海域 X 站與嘉南海域 X 站週期圖

V16CTCX0.1HA V16CCNX0.1H0 V171TCX0.1HA V171CNX0.1H0 V172TCX0.1HA V172CNX0.1H0
V173TCX0.1HA V173CNX0.1H0 V174TCX0.1HA V174CNX0.1H0 V175TCX0.1HA V175CNX0.1H0

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Wave Direction in Chung-Yun Seas of TCX0 at 2017

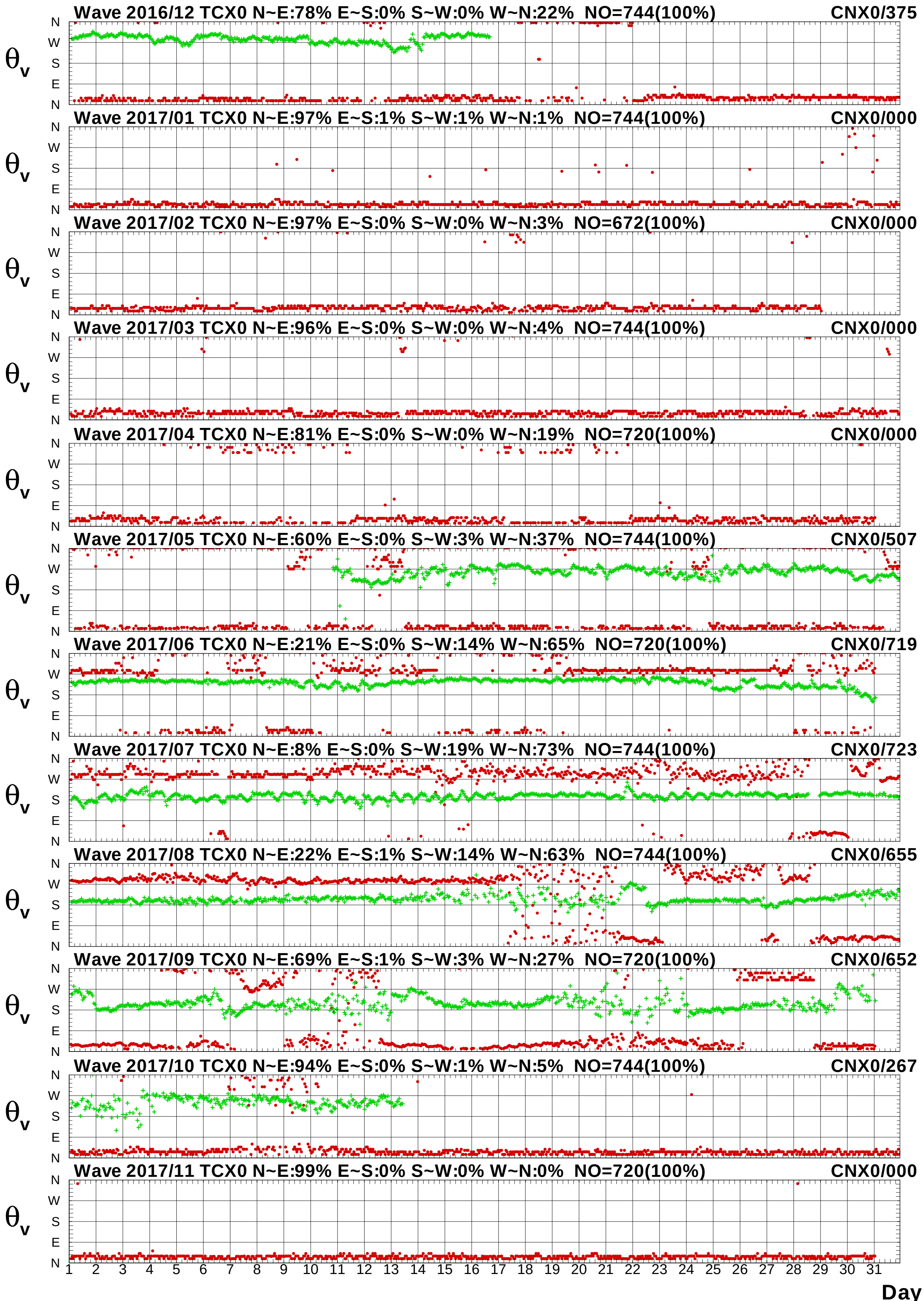

圖2.6c　2017年每月中雲海域 X 站與嘉南海域 X 站波向圖

V16CTCX0.1HA V16CCNX0.1H0 V171TCX0.1HA V171CNX0.1H0 V172TCX0.1HA V172CNX0.1H0
V173TCX0.1HA V173CNX0.1H0 V174TCX0.1HA V174CNX0.1H0 V175TCX0.1HA V175CNX0.1H0

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Wave H_s in Chung-Yun Seas of TCX0 at 2017

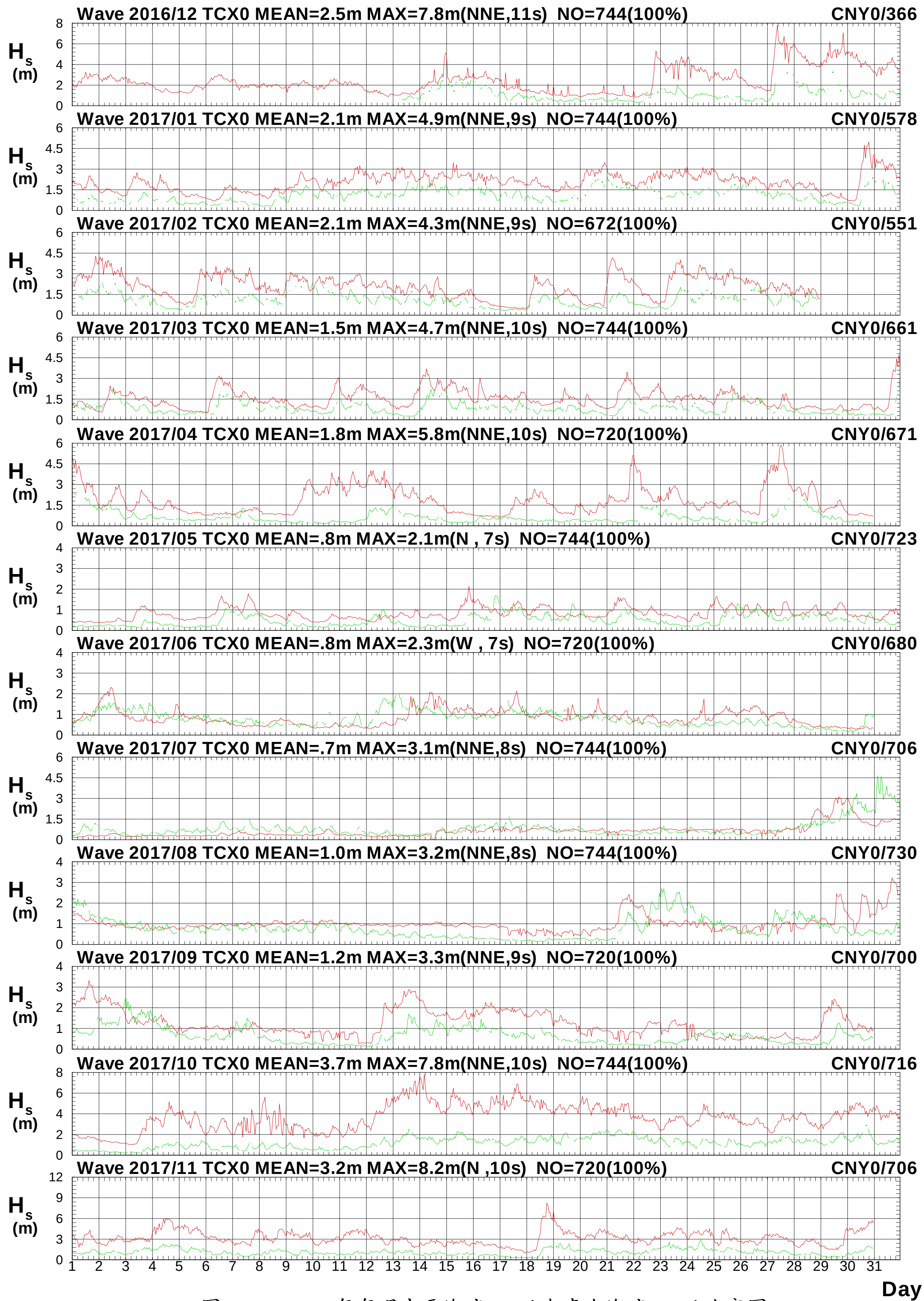

圖2.7a　2017年每月中雲海域 X 站與嘉南海域 Y 站波高圖

V16CTCX0.1HA V16CCNY0.1H0 V171TCX0.1HA V171CNY0.1H0 V172TCX0.1HA V172CNY0.1H0
V173TCX0.1HA V173CNY0.1H0 V174TCX0.1HA V174CNY0.1H0 V175TCX0.1HA V175CNY0.1H0

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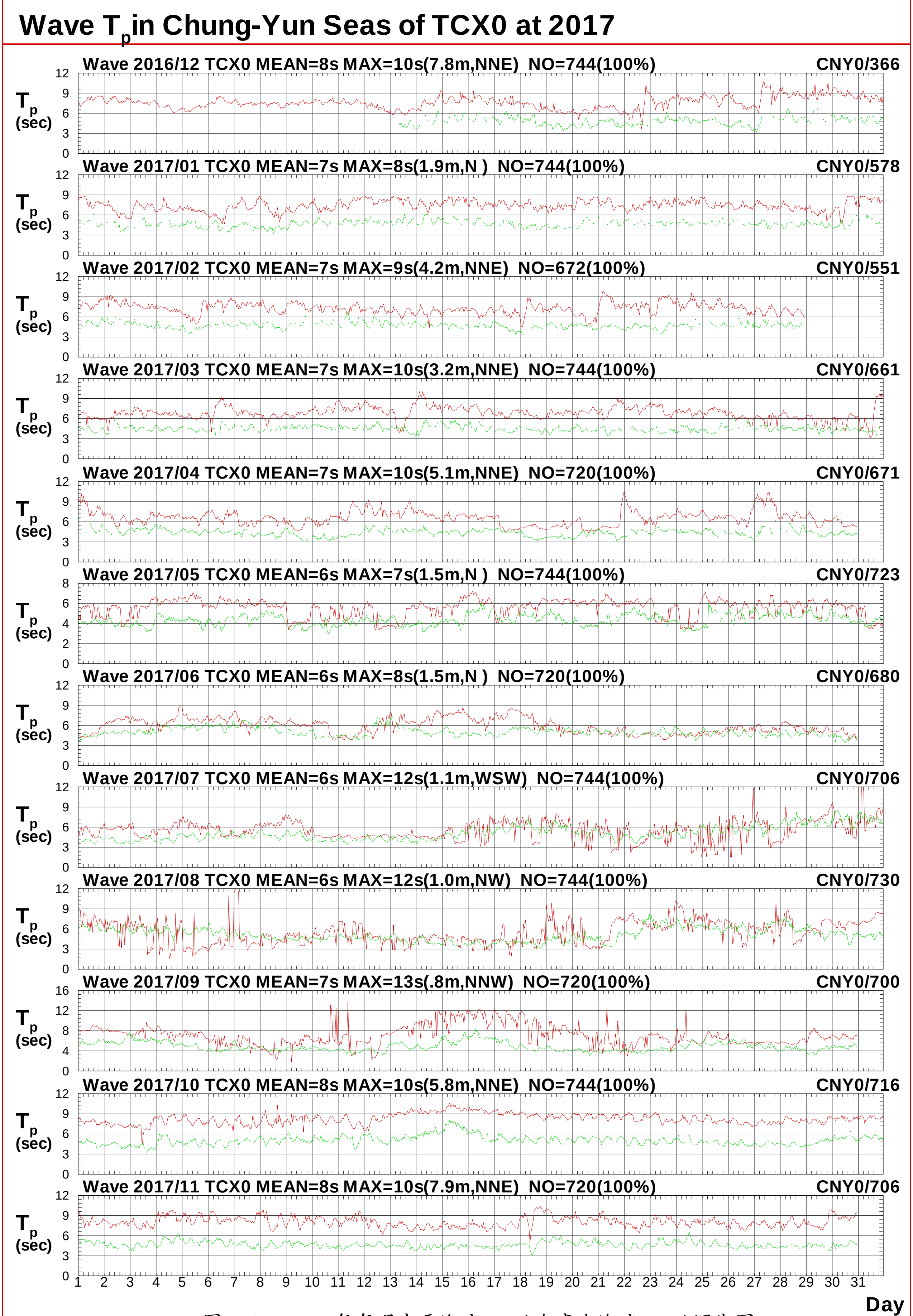

圖2.7b　2017年每月中雲海域 X 站與嘉南海域 Y 站週期圖

V16CTCX0.1HA V16CCNY0.1H0 V171TCX0.1HA V171CNY0.1H0 V172TCX0.1HA V172CNY0.1H0
V173TCX0.1HA V173CNY0.1H0 V174TCX0.1HA V174CNY0.1H0 V175TCX0.1HA V175CNY0.1H0

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Wave Direction in Chung-Yun Seas of TCX0 at 2017

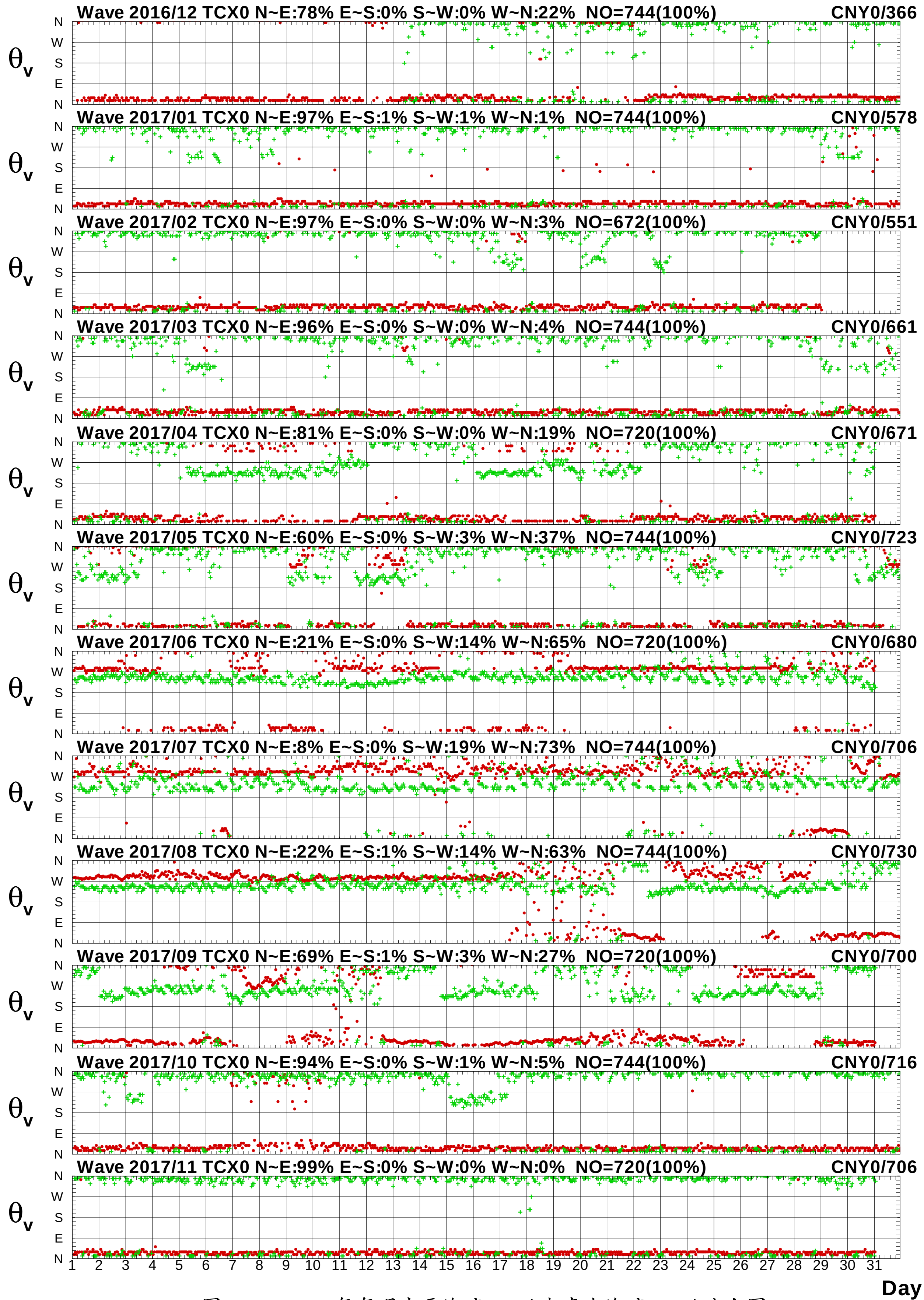

圖2.7c 2017年每月中雲海域 X 站與嘉南海域 Y 站波向圖

V16CTCX0.1HA V16CCNY0.1H0 V171TCX0.1HA V171CNY0.1H0 V172TCX0.1HA V172CNY0.1H0 V173TCX0.1HA V173CNY0.1H0 V174TCX0.1HA V174CNY0.1H0 V175TCX0.1HA V175CNY0.1H0	Institute of Harbor & Marine Technology

Wave H_s in Chung-Yun Seas of TCX0 at 2017

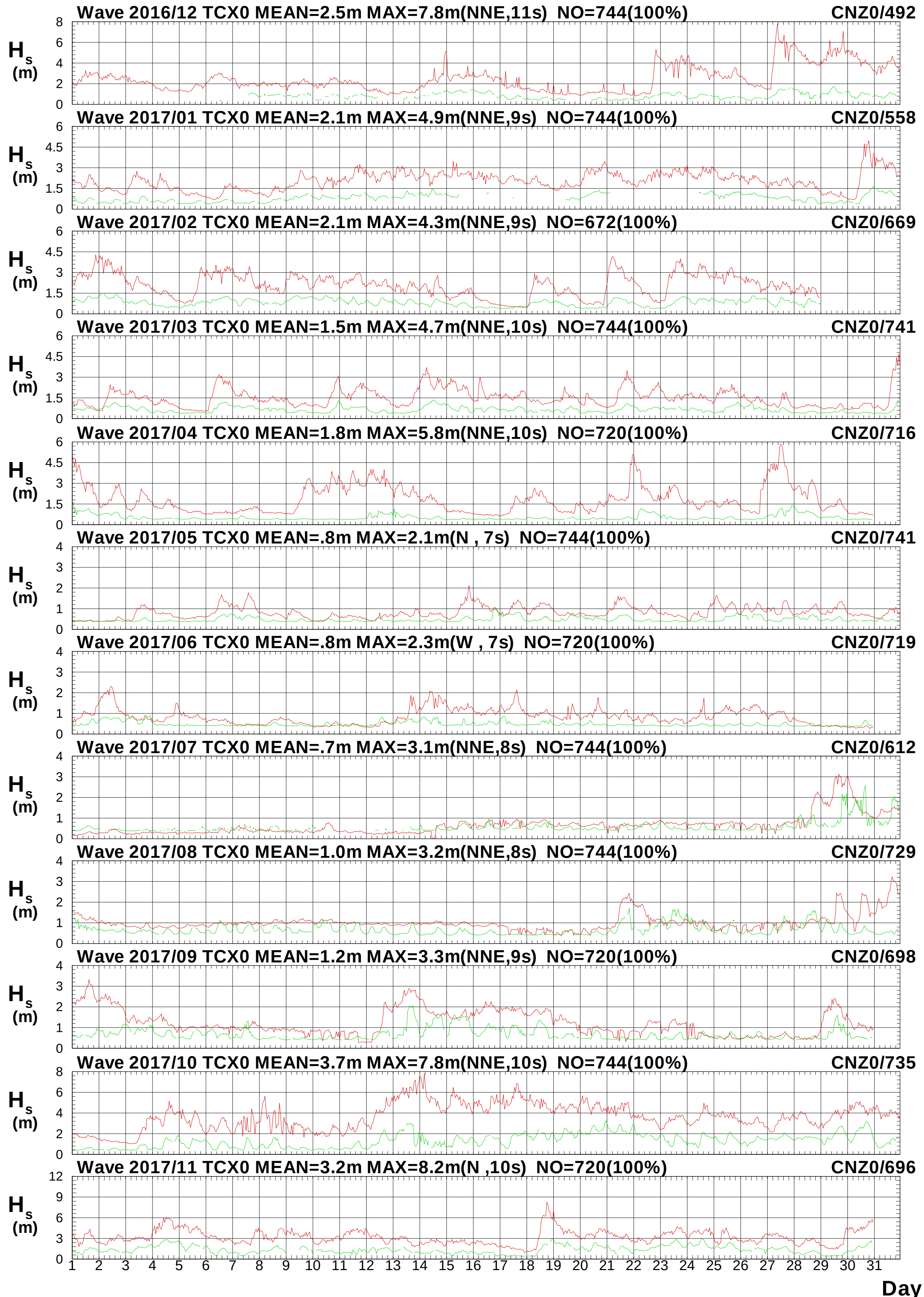

圖2.8a　2017年每月中雲海域 X 站與嘉南海域 Z 站波高圖

V16CTCX0.1HA V16CCNZ0.1H0 V171TCX0.1HA V171CNZ0.1H0 V172TCX0.1HA V172CNZ0.1H0 V173TCX0.1HA V173CNZ0.1H0 V174TCX0.1HA V174CNZ0.1H0 V175TCX0.1HA V175CNZ0.1H0	Institute of Harbor & Marine Technology

Wave T_p in Chung-Yun Seas of TCX0 at 2017

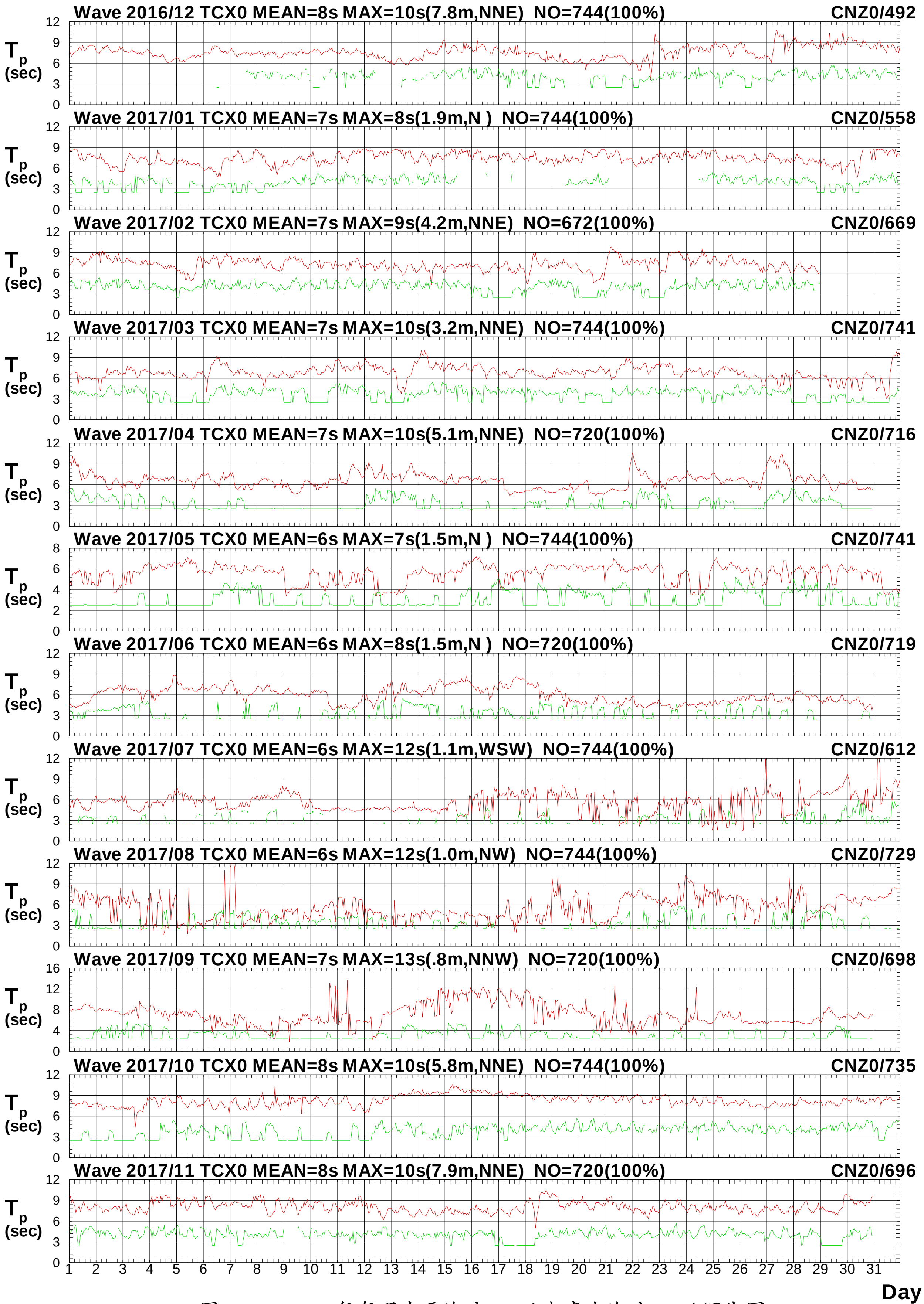

圖2.8b　2017年每月中雲海域 X 站與嘉南海域 Z 站週期圖

V16CTCX0.1HA V16CCNZ0.1H0 V171TCX0.1HA V171CNZ0.1H0 V172TCX0.1HA V172CNZ0.1H0
V173TCX0.1HA V173CNZ0.1H0 V174TCX0.1HA V174CNZ0.1H0 V175TCX0.1HA V175CNZ0.1H0

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Wave Direction in Chung-Yun Seas of TCX0 at 2017

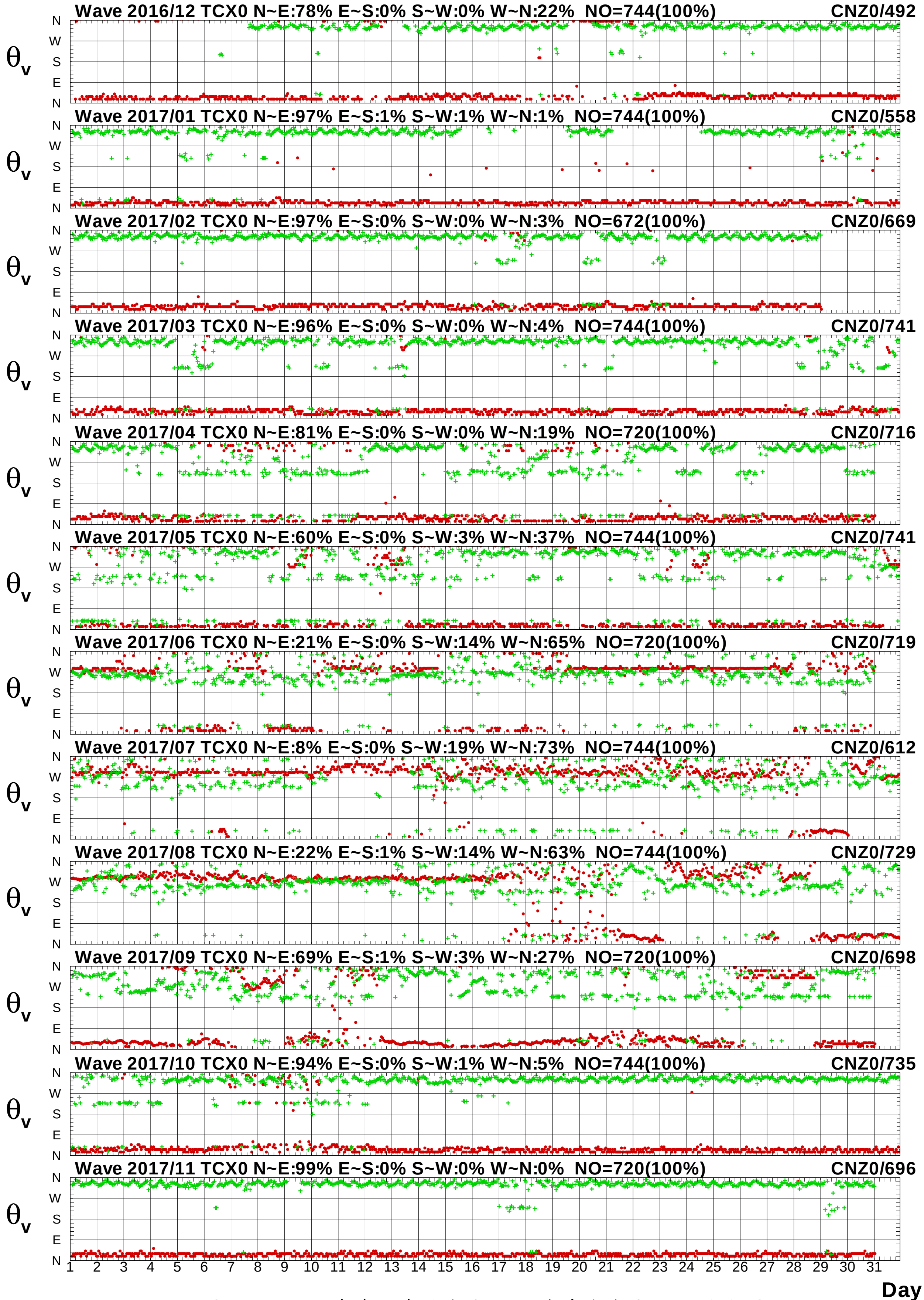

圖2.8c　2017年每月中雲海域 X 站與嘉南海域 Z 站波向圖

V16CTCX0.1HA V16CCNZ0.1H0 V171TCX0.1HA V171CNZ0.1H0 V172TCX0.1HA V172CNZ0.1H0
V173TCX0.1HA V173CNZ0.1H0 V174TCX0.1HA V174CNZ0.1H0 V175TCX0.1HA V175CNZ0.1H0

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Wave H_s in Chung-Yun Seas of TCX0 at 2017

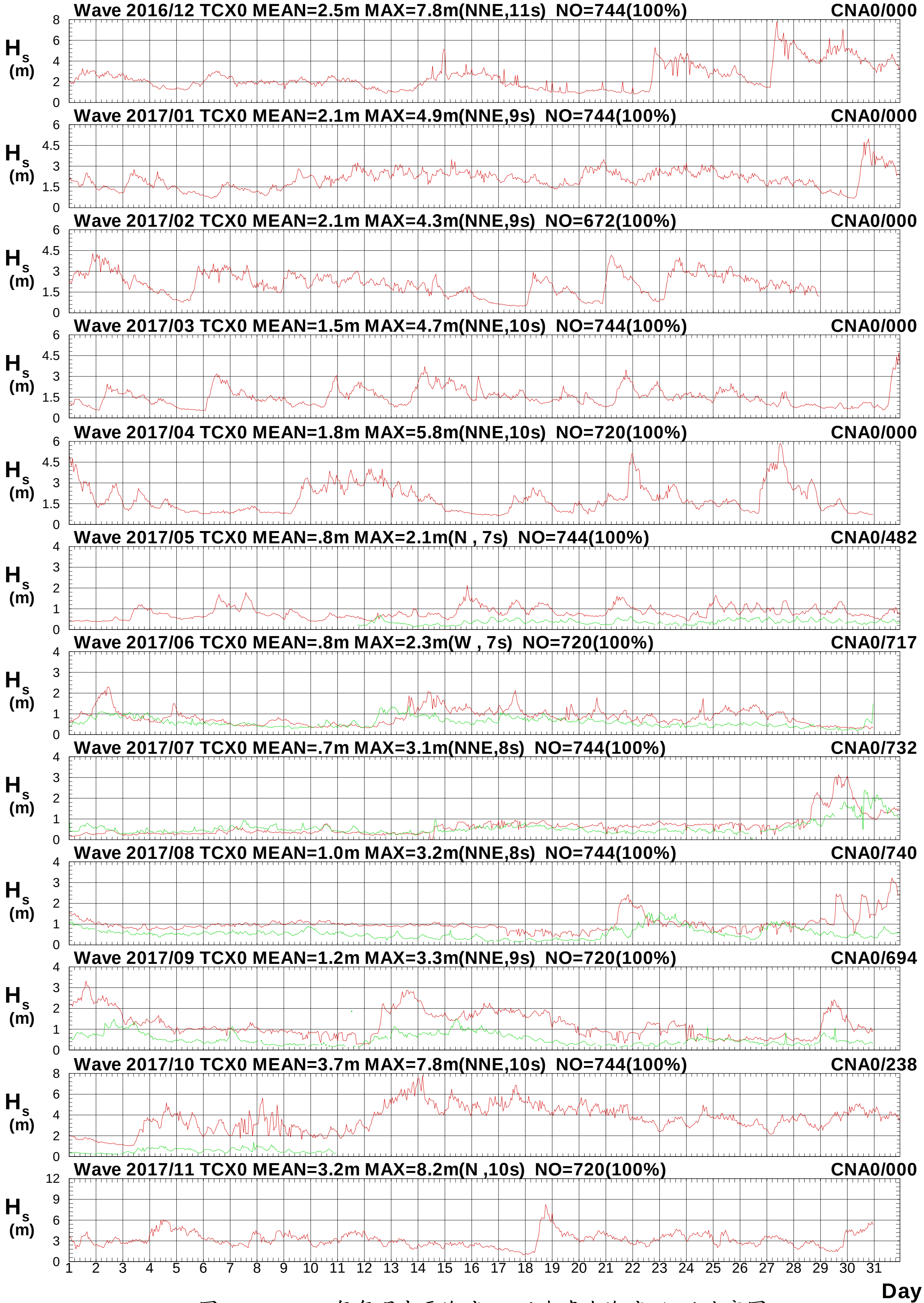

圖2.9a　2017年每月中雲海域 X 站與嘉南海域 A 站波高圖

V16CTCX0.1HA V16CCNA0.1H0 V171TCX0.1HA V171CNA0.1H0 V172TCX0.1HA V172CNA0.1H0 V173TCX0.1HA V173CNA0.1H0 V174TCX0.1HA V174CNA0.1H0 V175TCX0.1HA V175CNA0.1H0	Institute of Harbor & Marine Technology

Wave T_p in Chung-Yun Seas of TCX0 at 2017

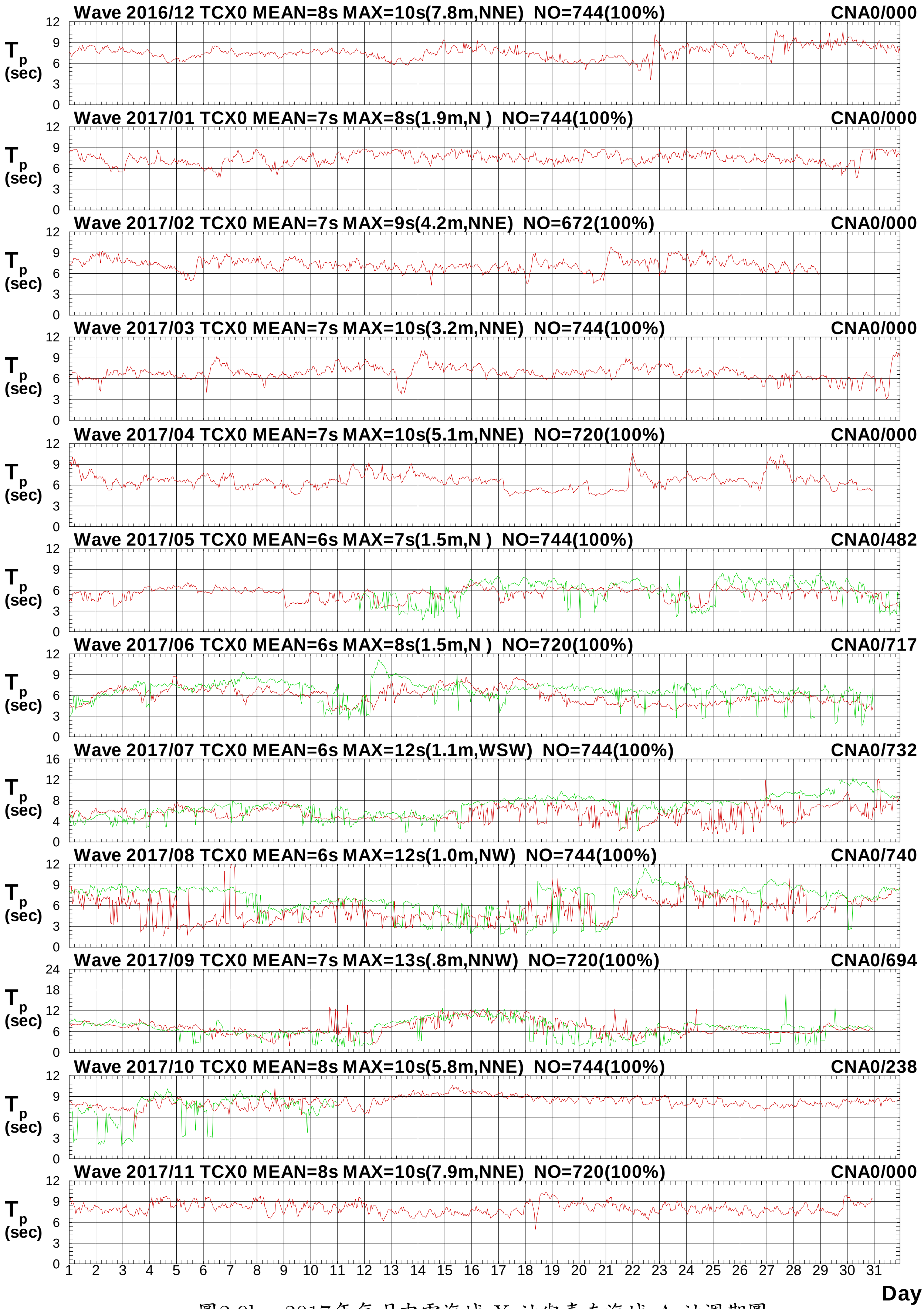

圖2.9b　2017年每月中雲海域 X 站與嘉南海域 A 站週期圖

V16CTCX0.1HA V16CCNA0.1H0 V171TCX0.1HA V171CNA0.1H0 V172TCX0.1HA V172CNA0.1H0
V173TCX0.1HA V173CNA0.1H0 V174TCX0.1HA V174CNA0.1H0 V175TCX0.1HA V175CNA0.1H0

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Wave Direction in Chung-Yun Seas of TCX0 at 2017

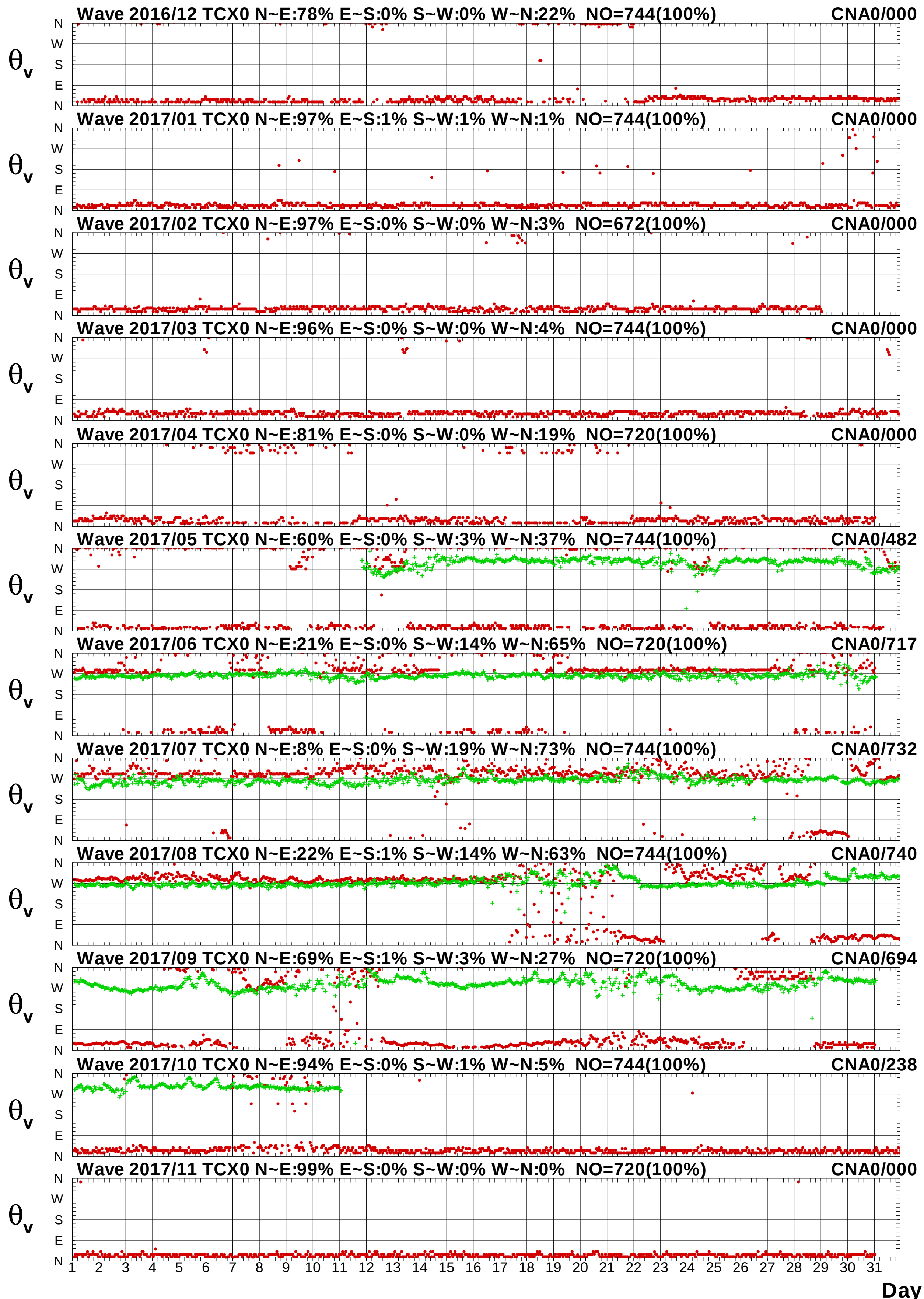

圖2.9c　2017年每月中雲海域 X 站與嘉南海域 A 站波向圖

V16CTCX0.1HA V16CCNA0.1H0 V171TCX0.1HA V171CNA0.1H0 V172TCX0.1HA V172CNA0.1H0
V173TCX0.1HA V173CNA0.1H0 V174TCX0.1HA V174CNA0.1H0 V175TCX0.1HA V175CNA0.1H0

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Wave H_s in Chung-Yun Seas of TCX0 at 2017

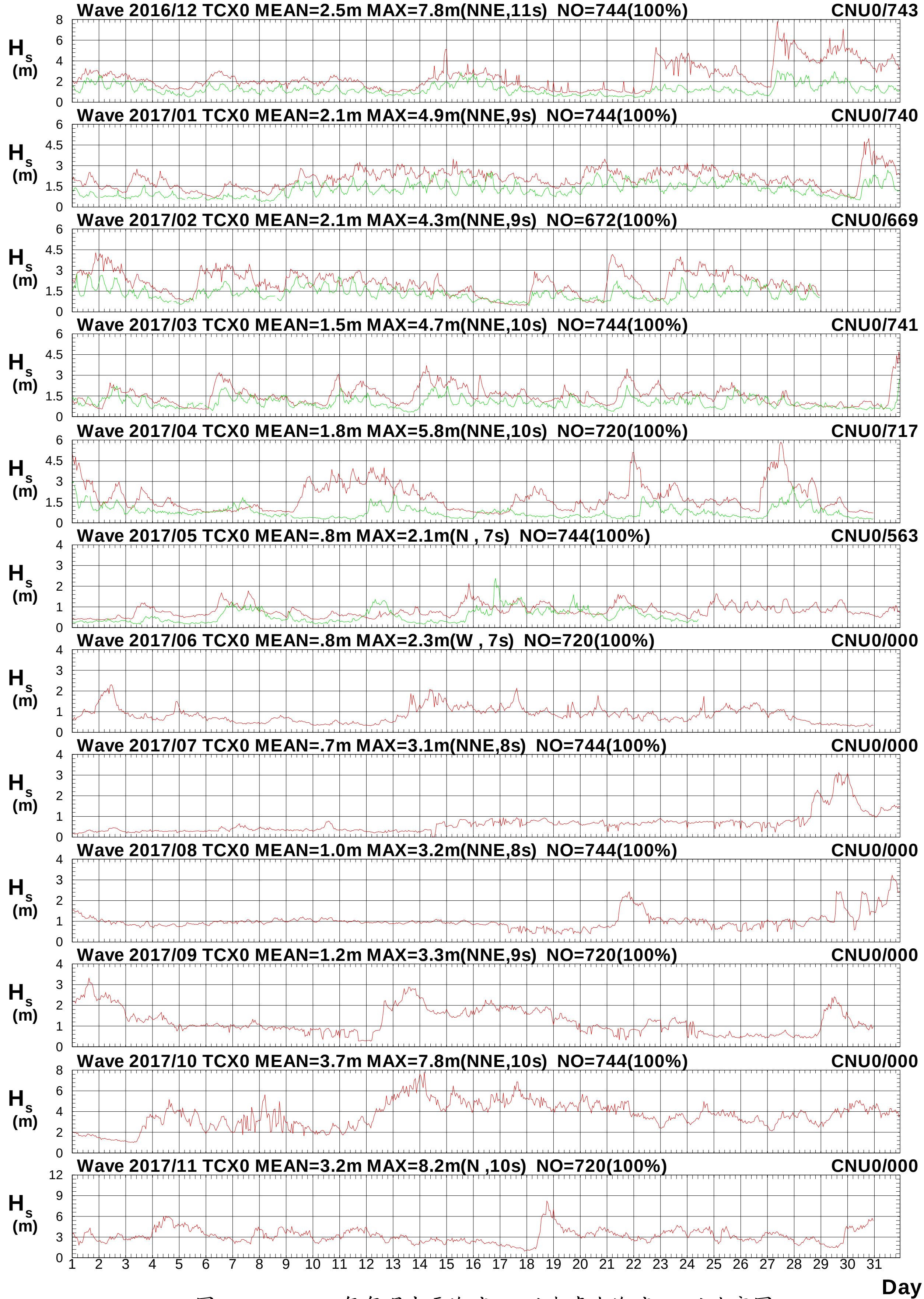

圖2.10a 2017年每月中雲海域 X 站與嘉南海域 U 站波高圖

V16CTCX0.1HA V16CCNU0.1H0 V171TCX0.1HA V171CNU0.1H0 V172TCX0.1HA V172CNU0.1H0 V173TCX0.1HA V173CNU0.1H0 V174TCX0.1HA V174CNU0.1H0 V175TCX0.1HA V175CNU0.1H0	Institute of Harbor & Marine Technology

Wave T_p in Chung-Yun Seas of TCX0 at 2017

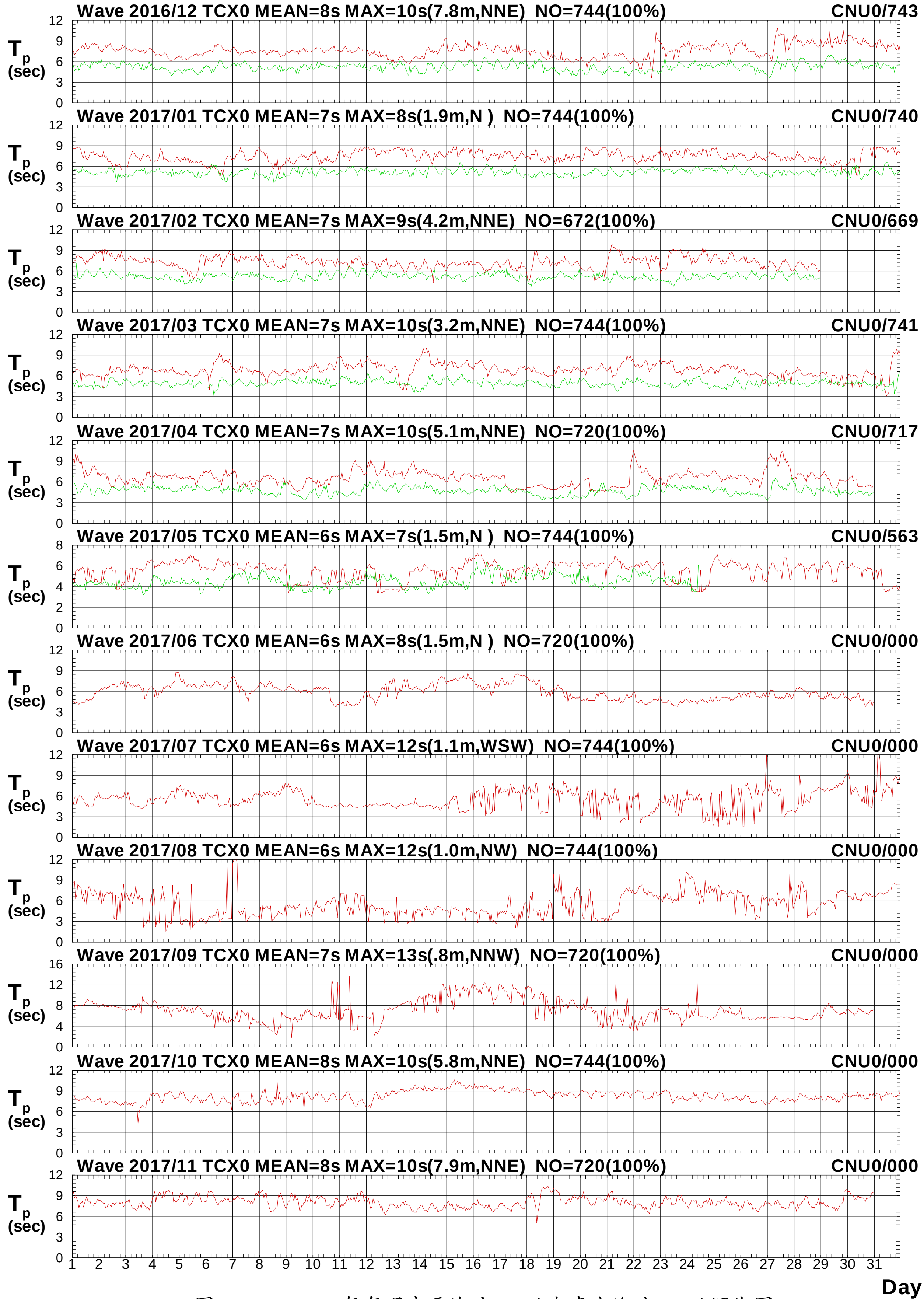

圖2.10b 2017年每月中雲海域 X 站與嘉南海域 U 站週期圖

V16CTCX0.1HA V16CCNU0.1H0 V171TCX0.1HA V171CNU0.1H0 V172TCX0.1HA V172CNU0.1H0
V173TCX0.1HA V173CNU0.1H0 V174TCX0.1HA V174CNU0.1H0 V175TCX0.1HA V175CNU0.1H0

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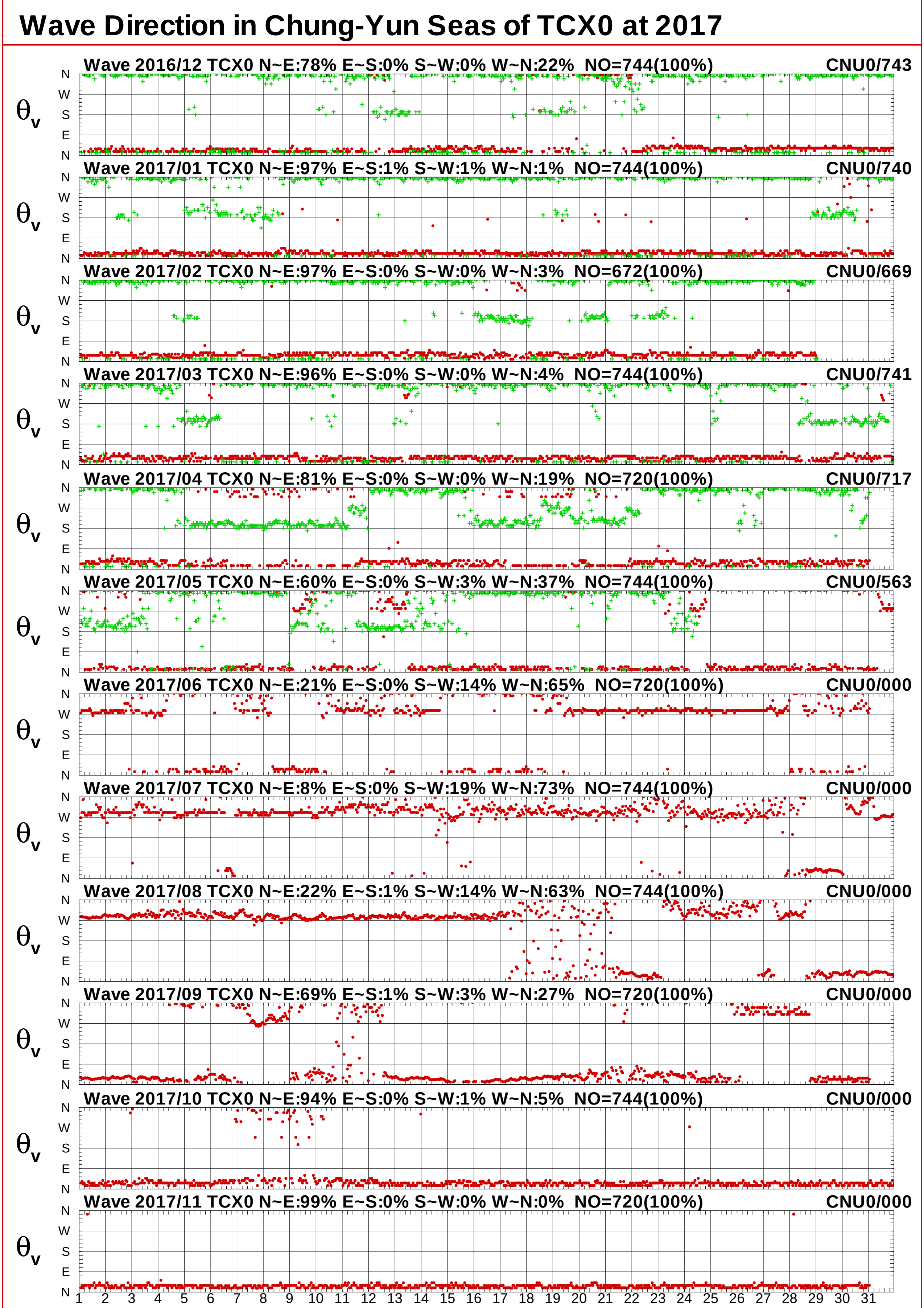

圖2.10c 2017年每月中雲海域 X 站與嘉南海域 U 站波向圖

V16CTCX0.1HA V16CCNU0.1H0 V171TCX0.1HA V171CNU0.1H0 V172TCX0.1HA V172CNU0.1H0
V173TCX0.1HA V173CNU0.1H0 V174TCX0.1HA V174CNU0.1H0 V175TCX0.1HA V175CNU0.1H0

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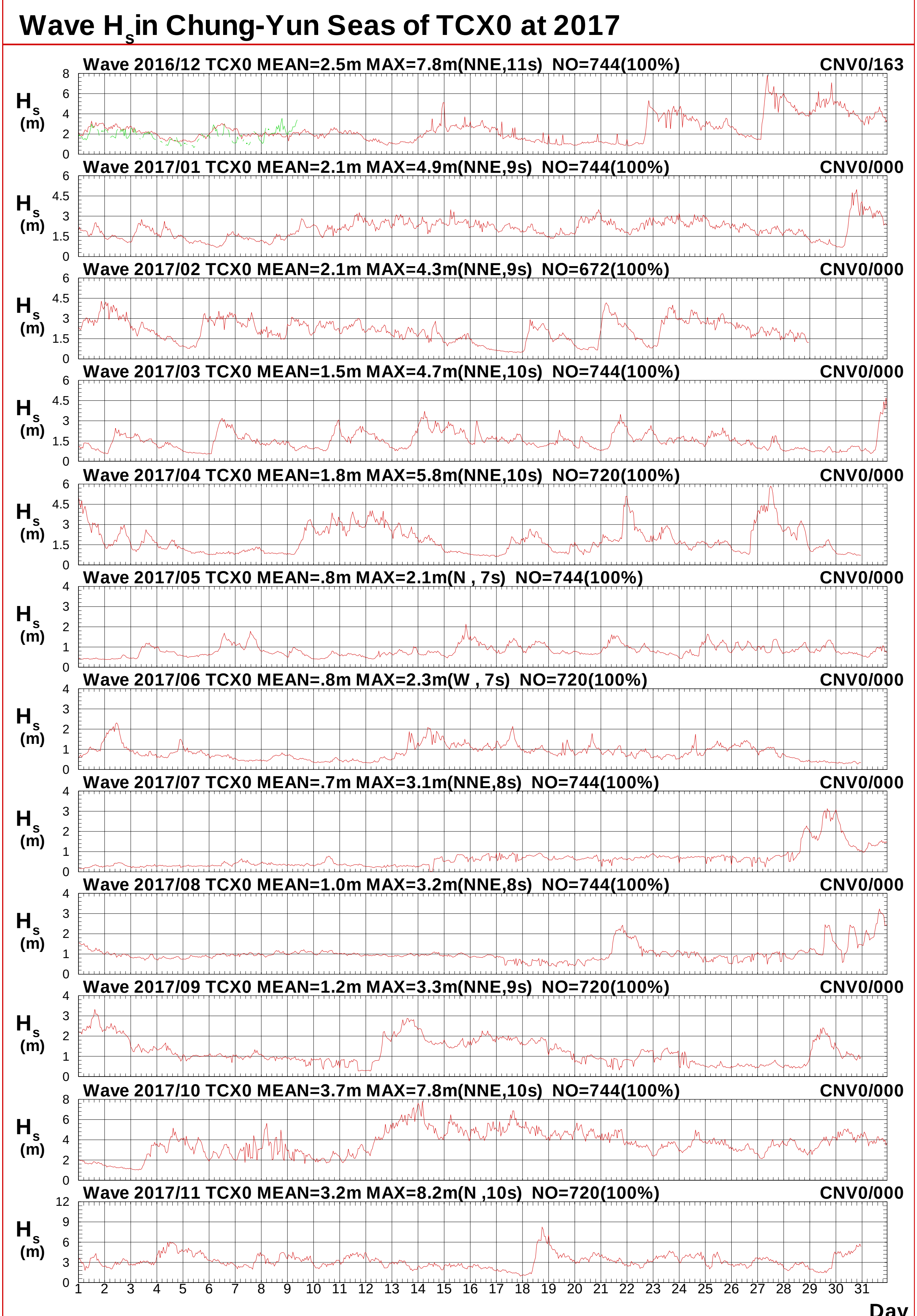

圖2.11a 2017年每月中雲海域 X 站與嘉南海域 V 站波高圖

V16CTCX0.1HA V16CCNV0.1H0 V171TCX0.1HA V171CNV0.1H0 V172TCX0.1HA V172CNV0.1H0
V173TCX0.1HA V173CNV0.1H0 V174TCX0.1HA V174CNV0.1H0 V175TCX0.1HA V175CNV0.1H0

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Wave T_p in Chung-Yun Seas of TCX0 at 2017

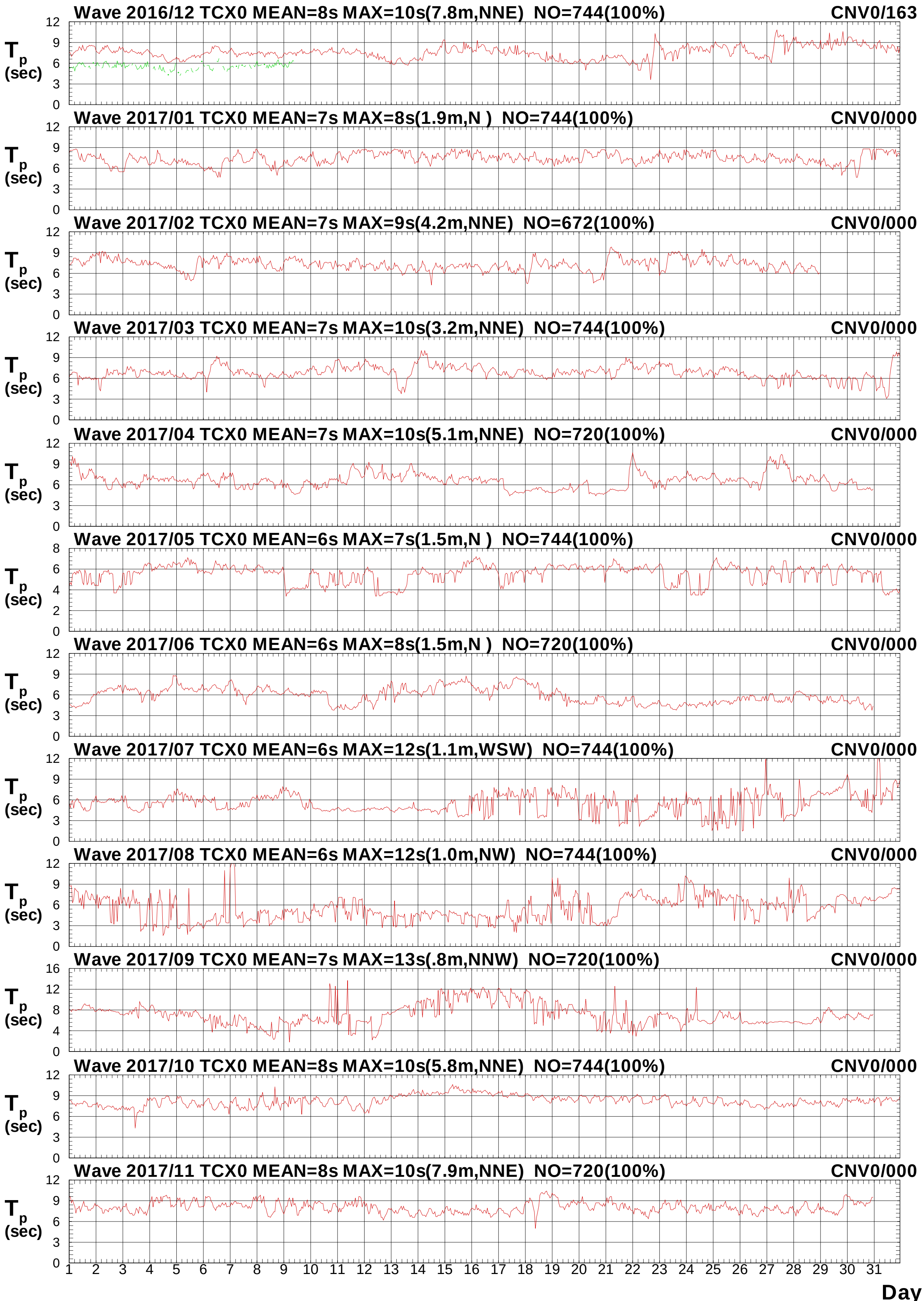

圖2.11b　2017年每月中雲海域 X 站與嘉南海域 V 站週期圖

V16CTCX0.1HA V16CCNV0.1H0 V171TCX0.1HA V171CNV0.1H0 V172TCX0.1HA V172CNV0.1H0 V173TCX0.1HA V173CNV0.1H0 V174TCX0.1HA V174CNV0.1H0 V175TCX0.1HA V175CNV0.1H0	Institute of Harbor & Marine Technology

Wave Direction in Chung-Yun Seas of TCX0 at 2017

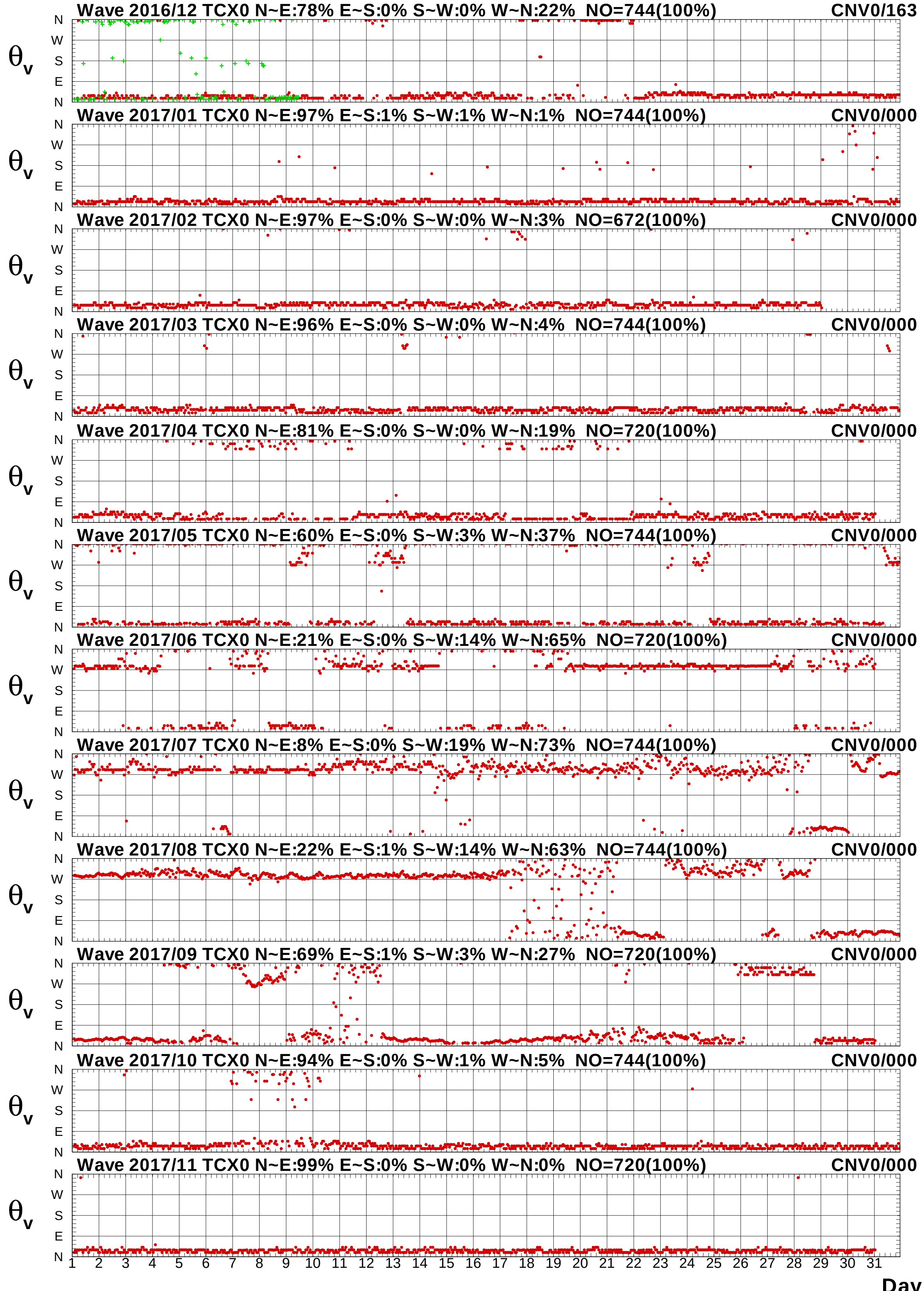

圖2.11c　2017年每月中雲海域 X 站與嘉南海域 V 站波向圖

V16CTCX0.1HA V16CCNV0.1H0 V171TCX0.1HA V171CNV0.1H0 V172TCX0.1HA V172CNV0.1H0 V173TCX0.1HA V173CNV0.1H0 V174TCX0.1HA V174CNV0.1H0 V175TCX0.1HA V175CNV0.1H0	Institute of Harbor & Marine Technology

Wave H_s in Chung-Yun Seas of TCX0 at 2017

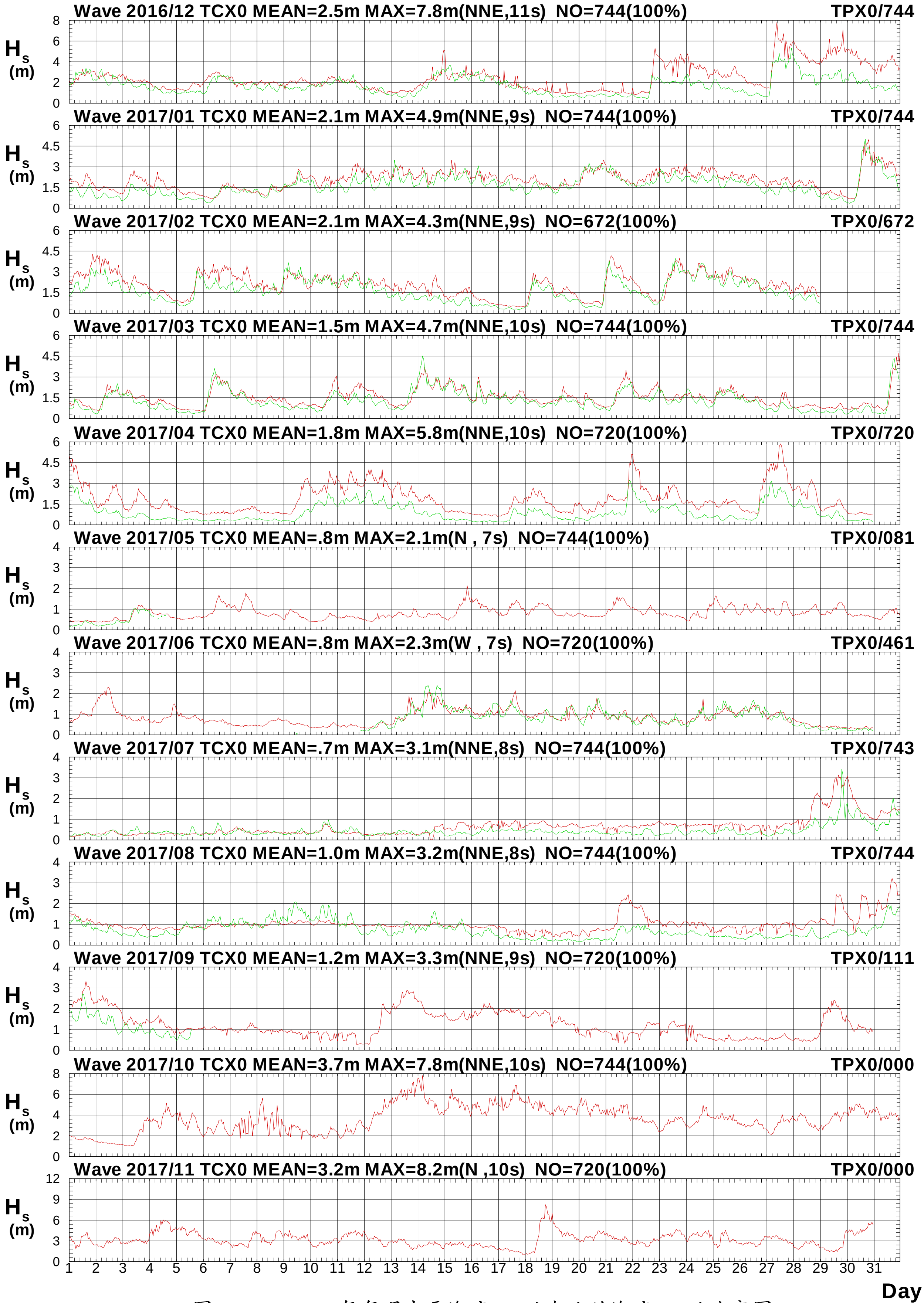

圖2.12a　2017年每月中雲海域 X 站與北苗海域 X 站波高圖

V16CTCX0.1HA V16CTPX0.1H0 V171TCX0.1HA V171TPX0.1H0 V172TCX0.1HA V172TPX0.1H0 V173TCX0.1HA V173TPX0.1H0 V174TCX0.1HA V174TPX0.1H0 V175TCX0.1HA V175TPX0.1H0	Institute of Harbor & Marine Technology

Wave T_p in Chung-Yun Seas of TCX0 at 2017

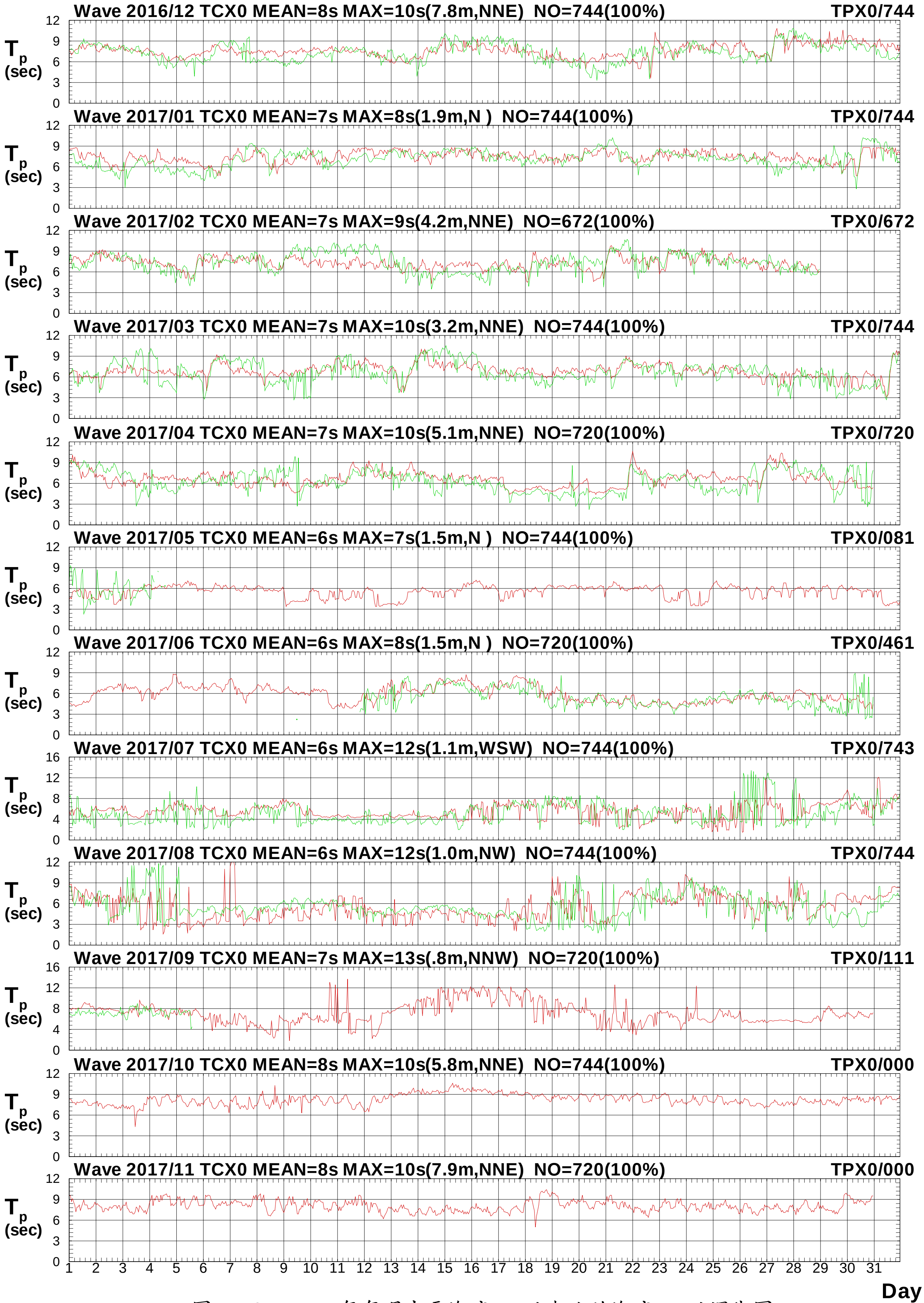

圖2.12b　2017年每月中雲海域 X 站與北苗海域 X 站週期圖

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

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Wave Direction in Chung-Yun Seas of TCX0 at 2017

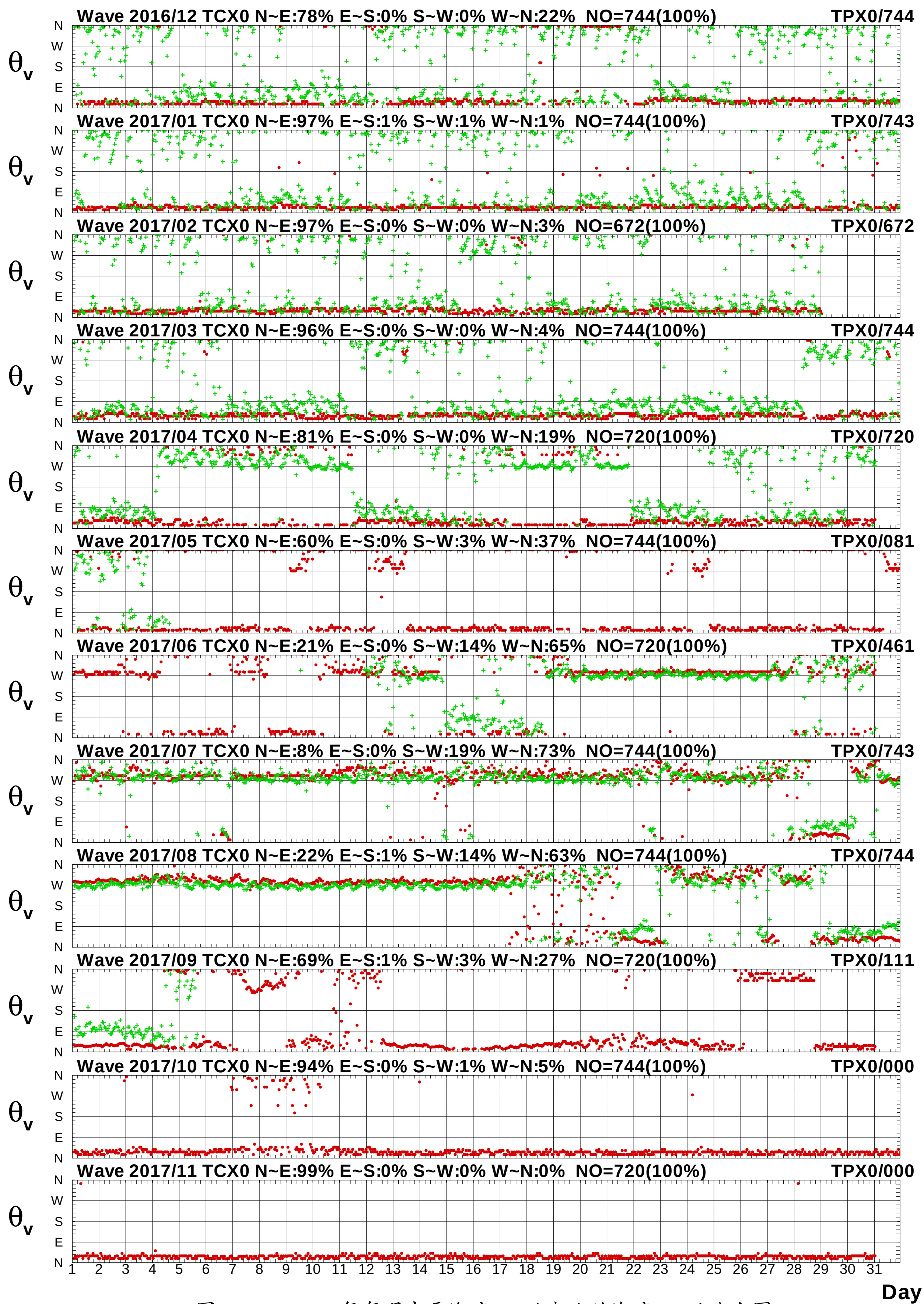

圖2.12c　2017年每月中雲海域 X 站與北苗海域 X 站波向圖

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

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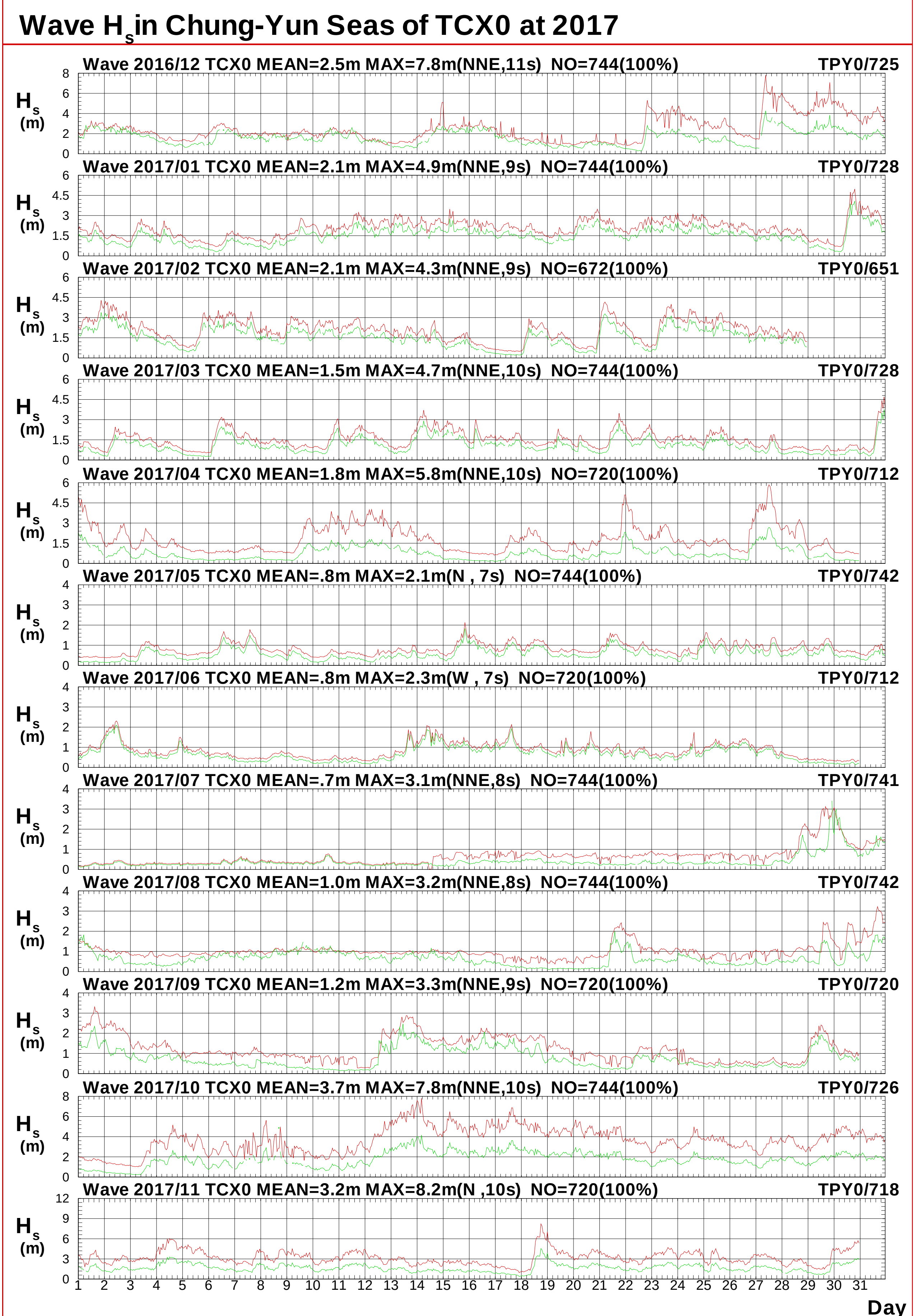

圖2.13a　2017年每月中雲海域 X 站與北苗海域 Y 站波高圖

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

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Wave T_p in Chung-Yun Seas of TCX0 at 2017

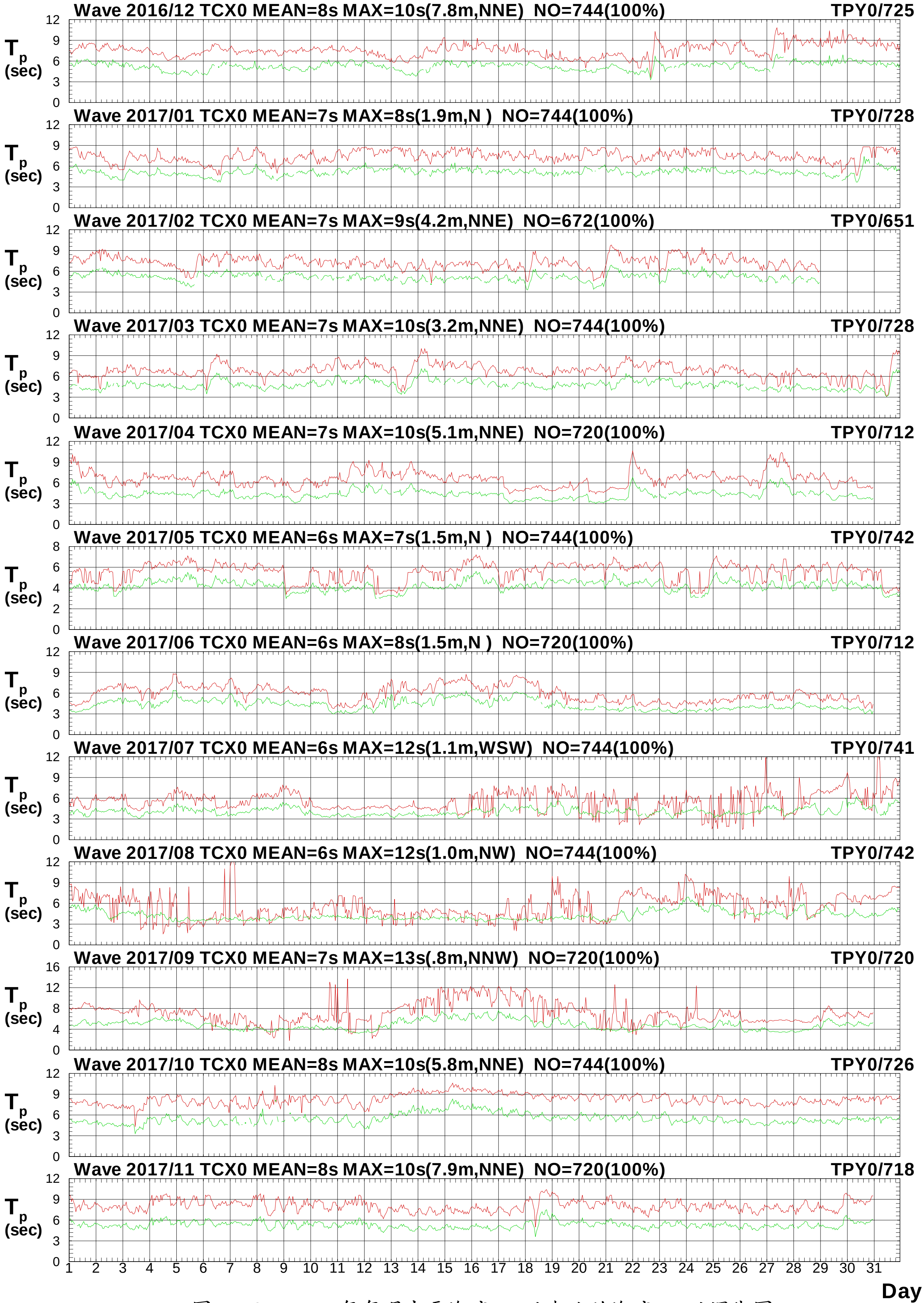

圖2.13b　2017年每月中雲海域 X 站與北苗海域 Y 站週期圖

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

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Wave Direction in Chung-Yun Seas of TCX0 at 2017

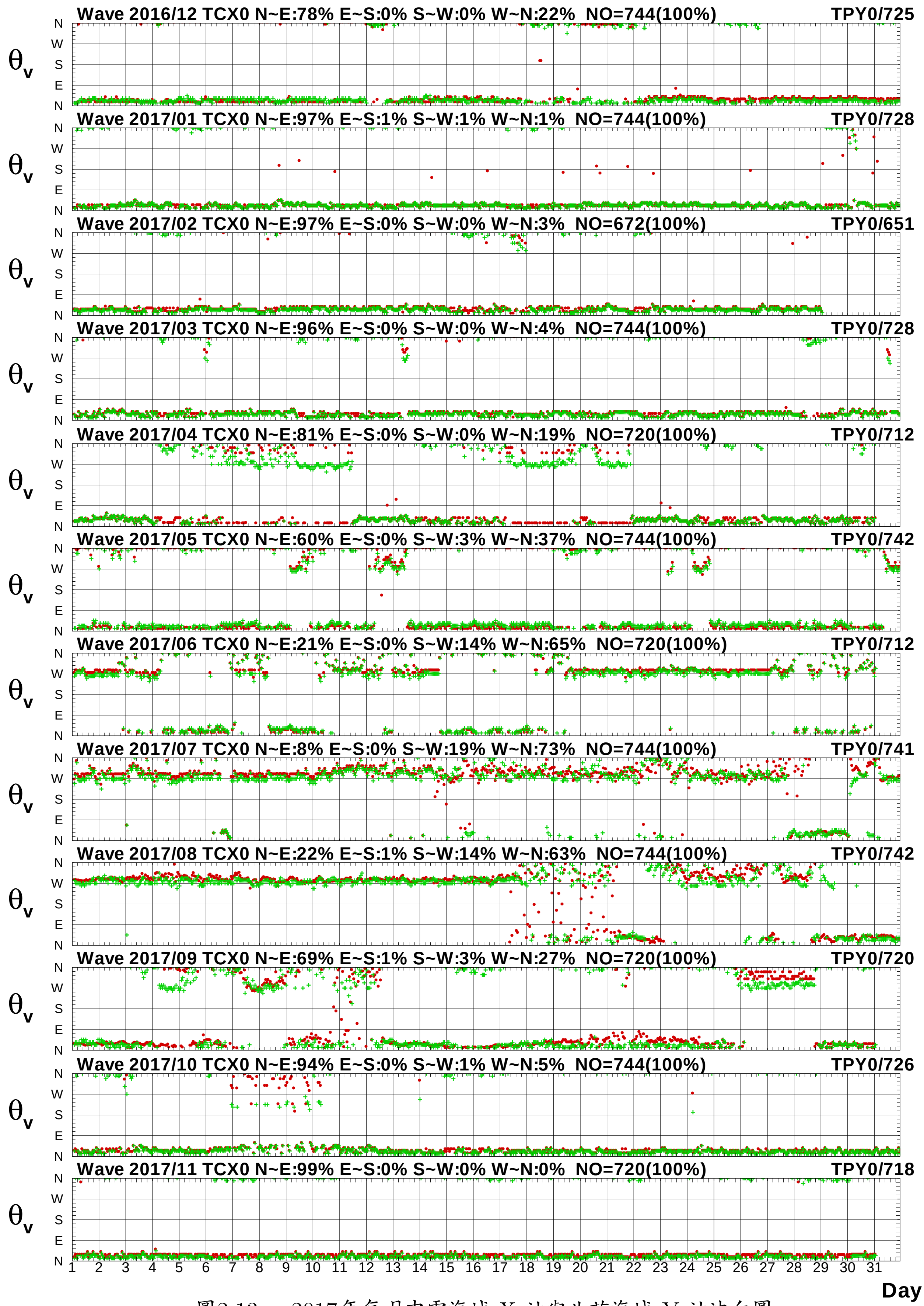

圖2.13c　2017年每月中雲海域 X 站與北苗海域 Y 站波向圖

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

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Wave H_s in Chung-Yun Seas of TCY0 at 2017

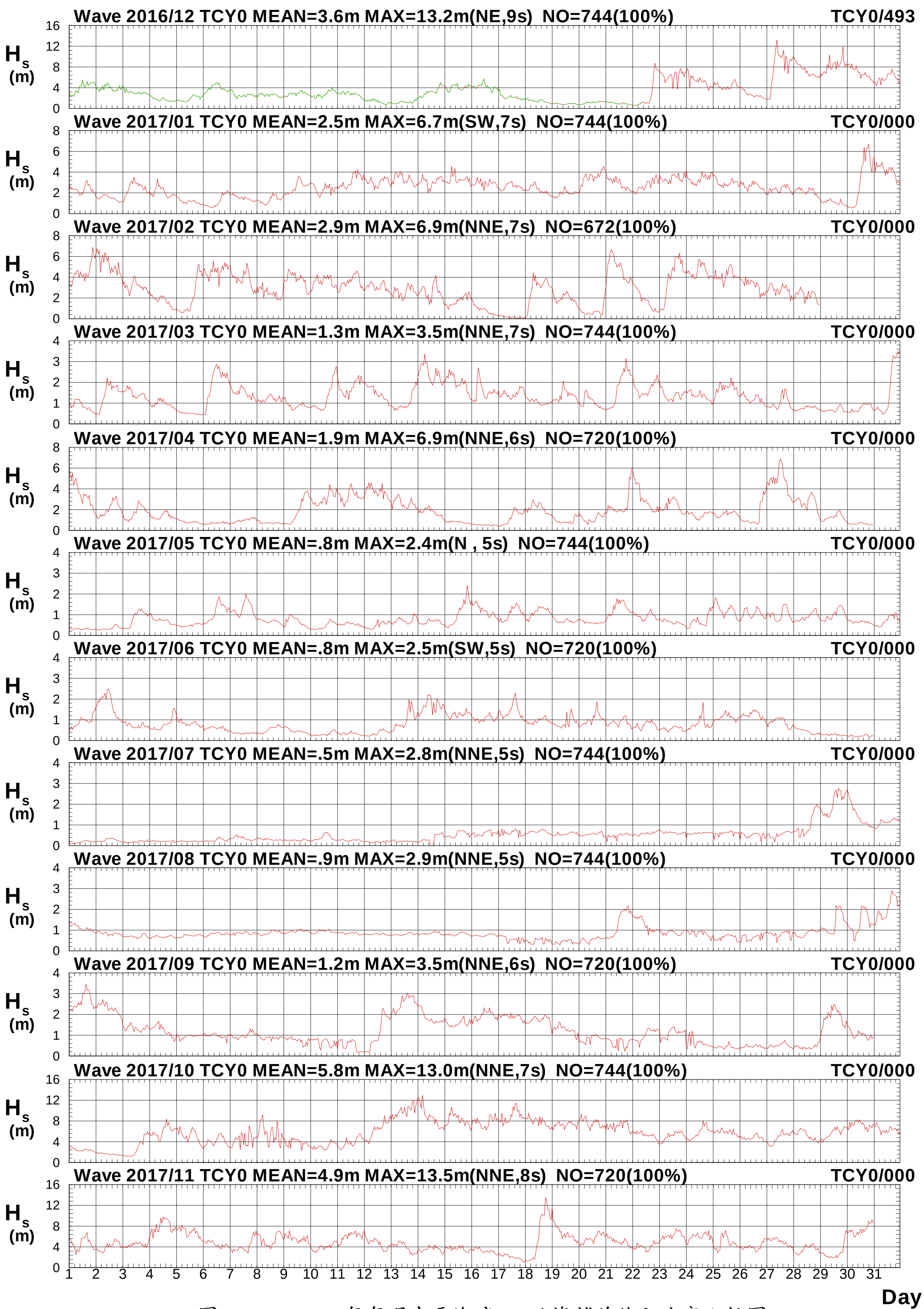

圖2.14a　2017年每月中雲海域 Y 站修補前後之波高比較圖

V16CTCY0.1HA V16CTCY0.1H0 V171TCY0.1HA V171TCY0.1H0 V172TCY0.1HA V172TCY0.1H0
V173TCY0.1HA V173TCY0.1H0 V174TCY0.1HA V174TCY0.1H0 V175TCY0.1HA V175TCY0.1H0

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Wave T_p in Chung-Yun Seas of TCY0 at 2017

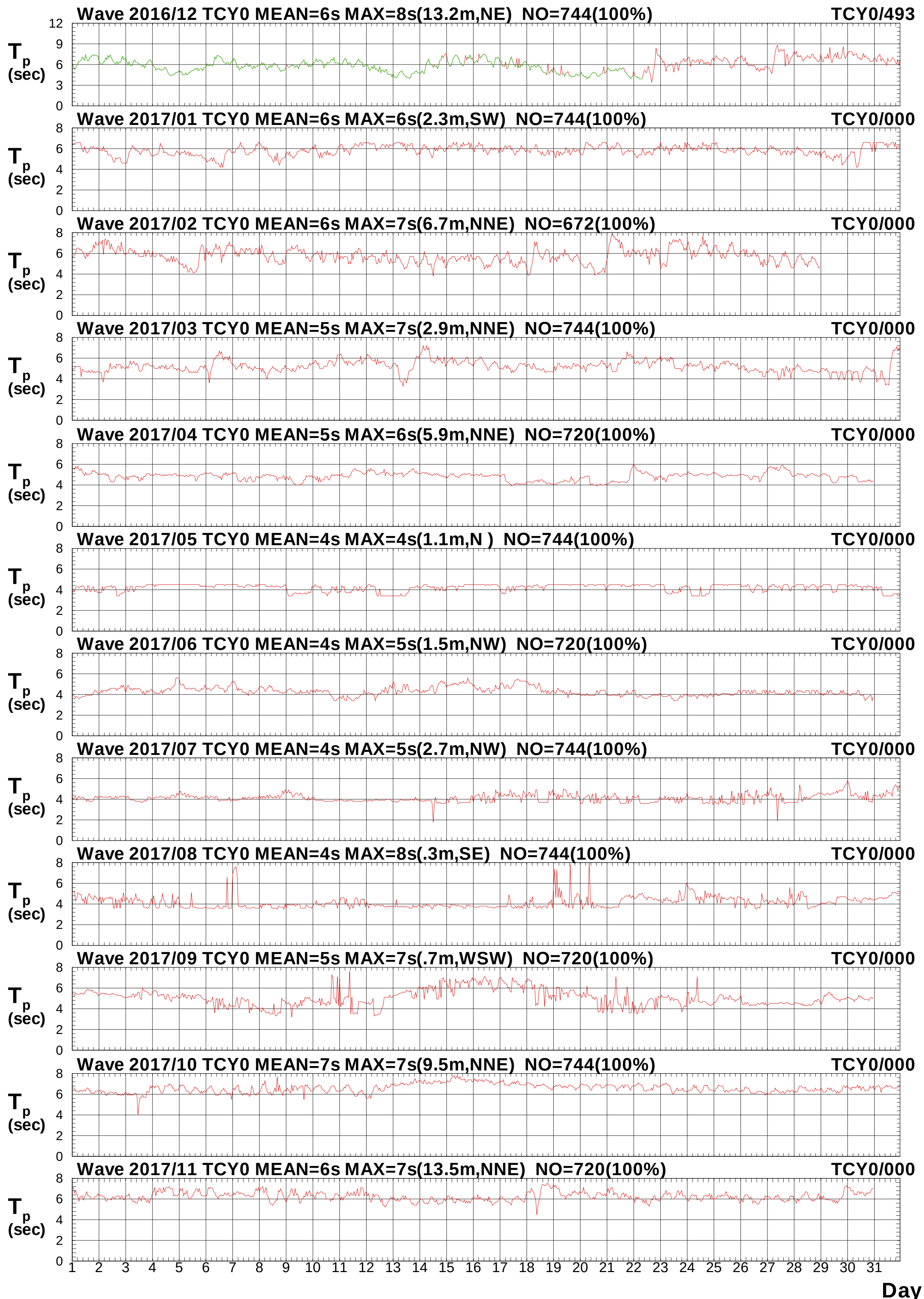

圖2.14b　2017年每月中雲海域 Y 站修補前後之週期比較圖

V16CTCY0.1HA V16CTCY0.1H0 V171TCY0.1HA V171TCY0.1H0 V172TCY0.1HA V172TCY0.1H0
V173TCY0.1HA V173TCY0.1H0 V174TCY0.1HA V174TCY0.1H0 V175TCY0.1HA V175TCY0.1H0

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Wave Direction in Chung-Yun Seas of TCY0 at 2017

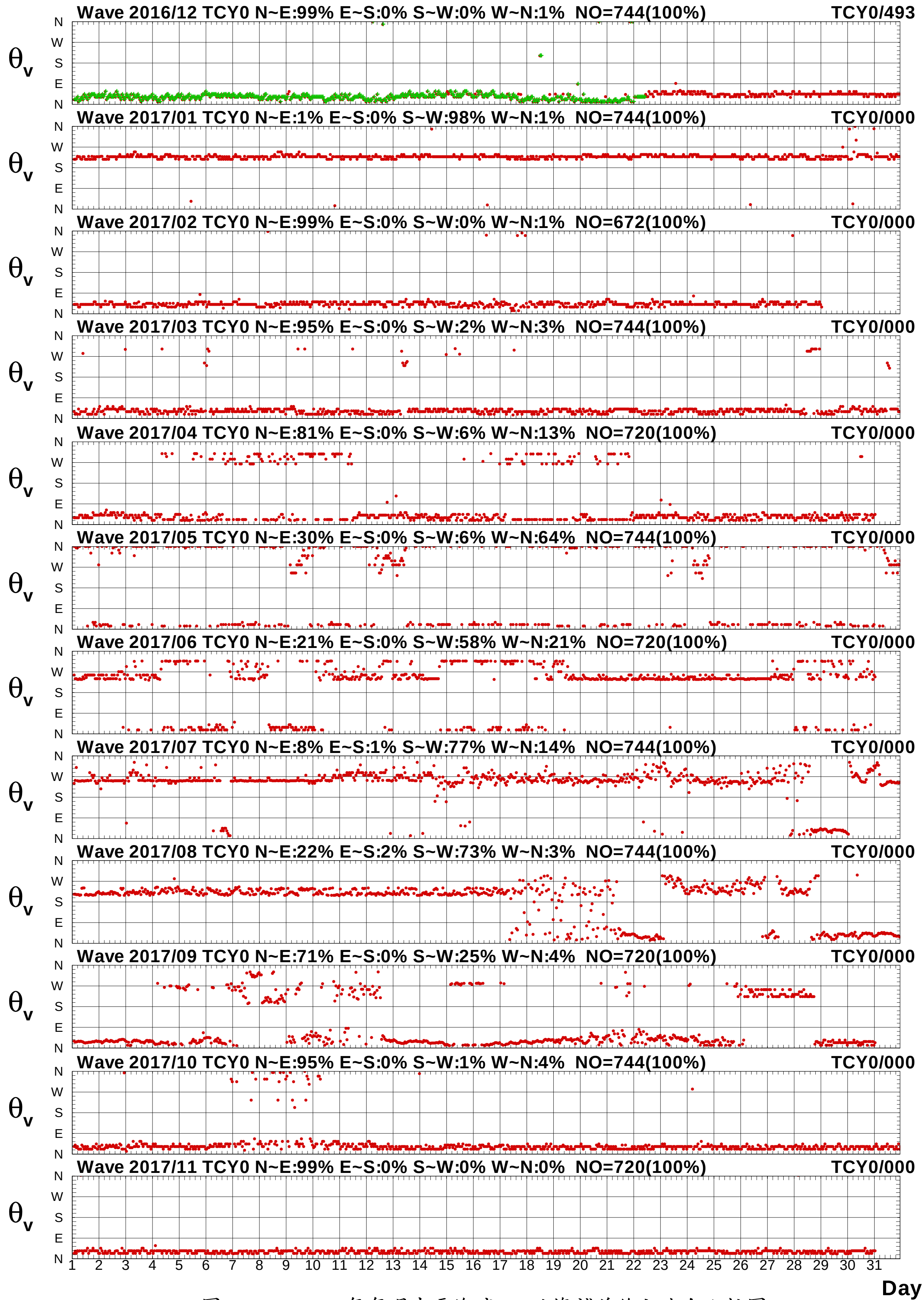

圖2.14c　2017年每月中雲海域 Y 站修補前後之波向比較圖

V16CTCY0.1HA V16CTCY0.1H0 V171TCY0.1HA V171TCY0.1H0 V172TCY0.1HA V172TCY0.1H0
V173TCY0.1HA V173TCY0.1H0 V174TCY0.1HA V174TCY0.1H0 V175TCY0.1HA V175TCY0.1H0

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Wave H_s in Chung-Yun Seas of TCY0 at 2017

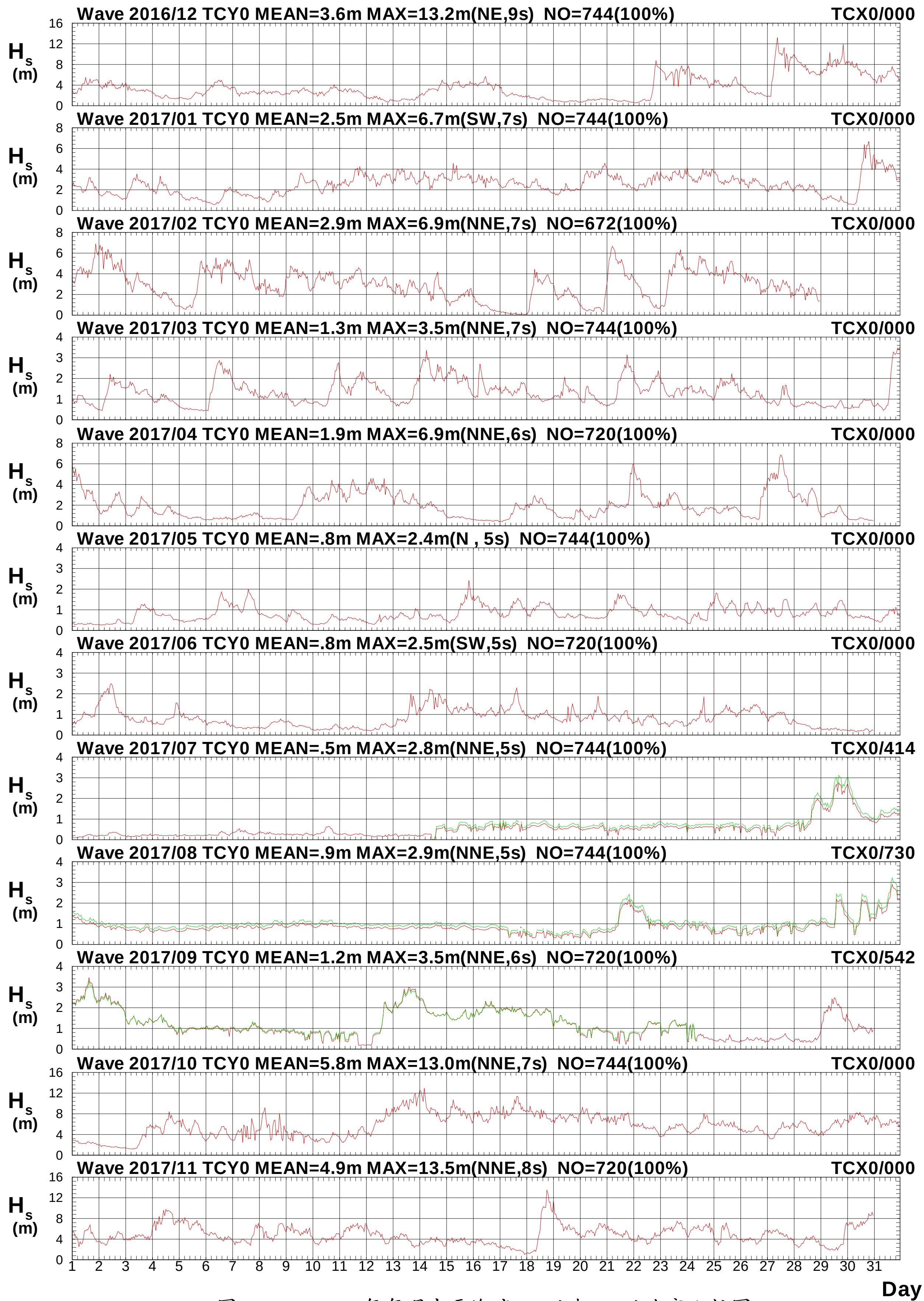

圖2.15a　2017年每月中雲海域 Y 站與 X 站波高比較圖

V16CTCY0.1HA V16CTCX0.1H0 V171TCY0.1HA V171TCX0.1H0 V172TCY0.1HA V172TCX0.1H0
V173TCY0.1HA V173TCX0.1H0 V174TCY0.1HA V174TCX0.1H0 V175TCY0.1HA V175TCX0.1H0

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Wave T_p in Chung-Yun Seas of TCY0 at 2017

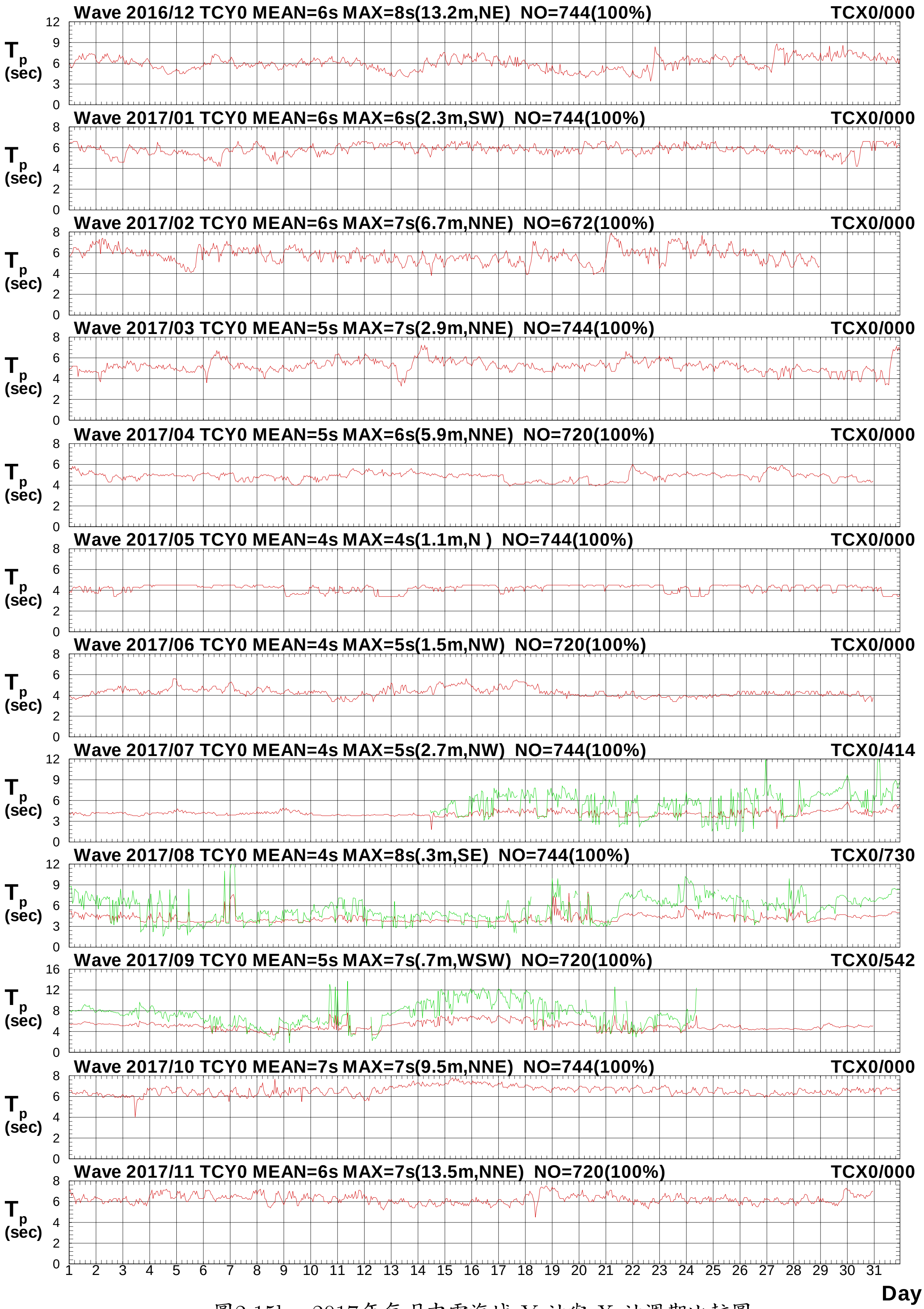

圖2.15b 2017年每月中雲海域 Y 站與 X 站週期比較圖

V16CTCY0.1HA V16CTCX0.1H0 V171TCY0.1HA V171TCX0.1H0 V172TCY0.1HA V172TCX0.1H0
V173TCY0.1HA V173TCX0.1H0 V174TCY0.1HA V174TCX0.1H0 V175TCY0.1HA V175TCX0.1H0

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Wave Direction in Chung-Yun Seas of TCY0 at 2017

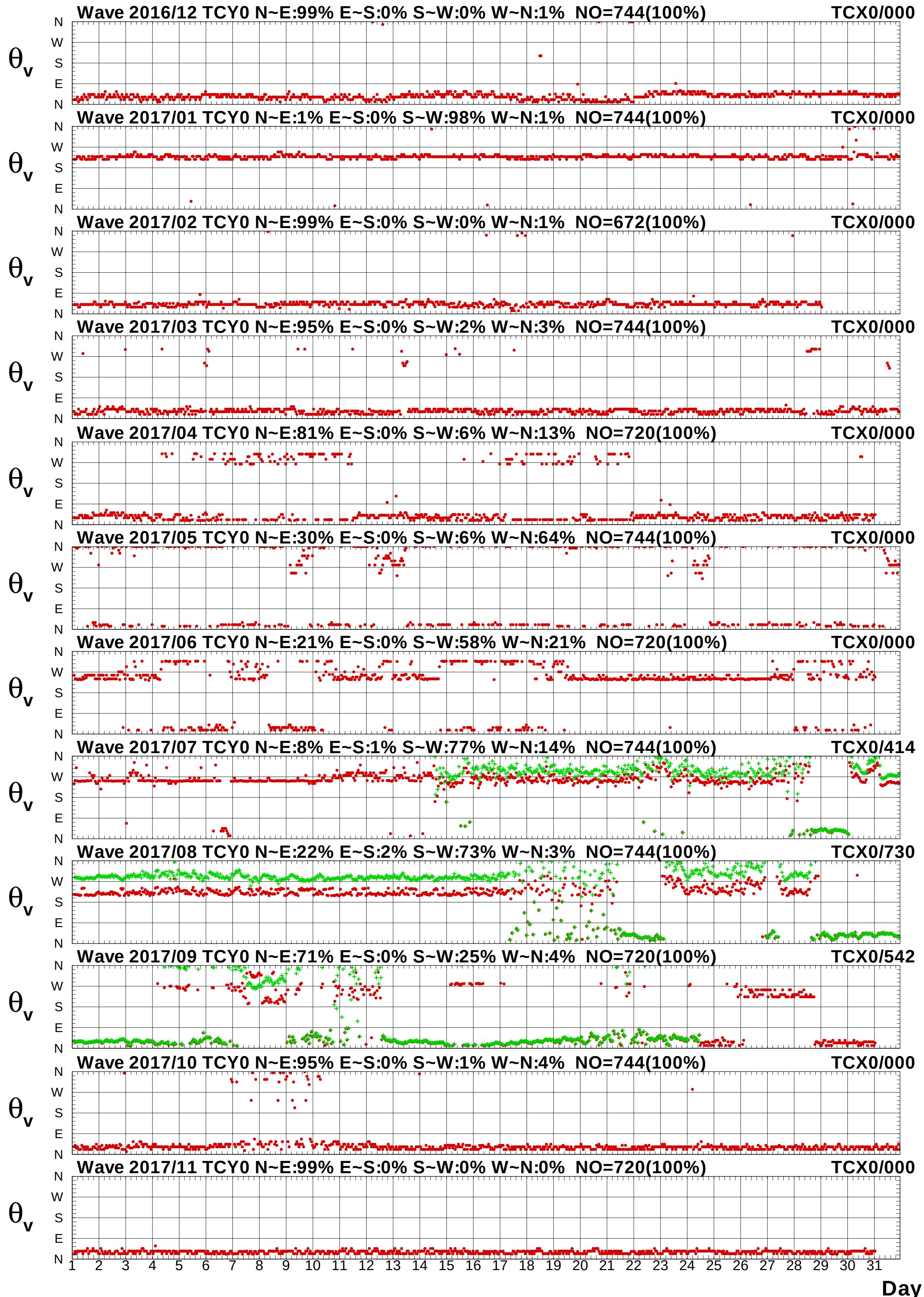

圖2.15c　2017年每月中雲海域 Y 站與 X 站波向比較圖

V16CTCY0.1HA V16CTCX0.1H0 V171TCY0.1HA V171TCX0.1H0 V172TCY0.1HA V172TCX0.1H0
V173TCY0.1HA V173TCX0.1H0 V174TCY0.1HA V174TCX0.1H0 V175TCY0.1HA V175TCX0.1H0

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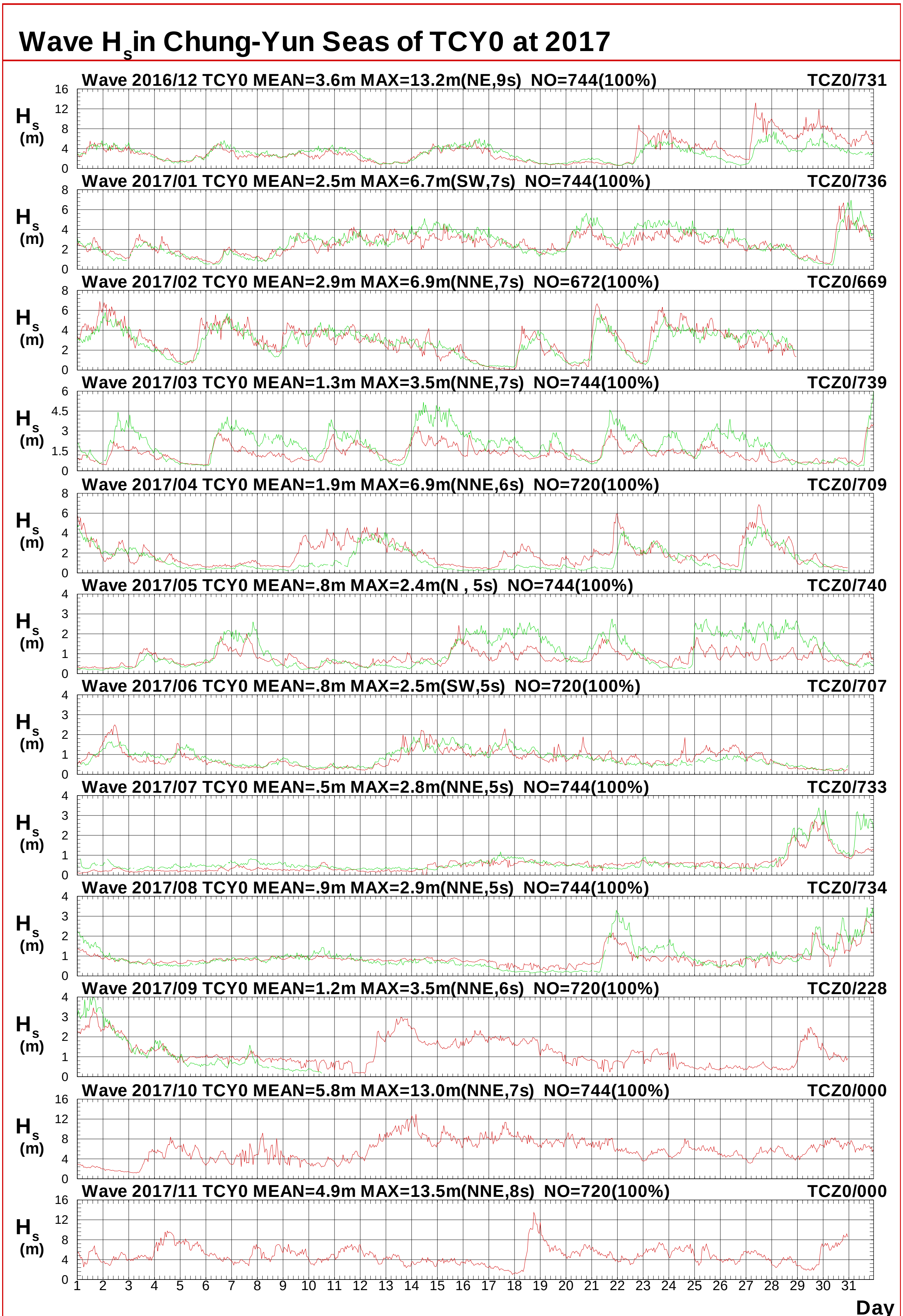

圖2.16a　2017年每月中雲海域 Y 站與 Z 站波高比較圖

V16CTCY0.1HA V16CTCZ0.1H0 V171TCY0.1HA V171TCZ0.1H0 V172TCY0.1HA V172TCZ0.1H0
V173TCY0.1HA V173TCZ0.1H0 V174TCY0.1HA V174TCZ0.1H0 V175TCY0.1HA V175TCZ0.1H0

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Wave T_p in Chung-Yun Seas of TCY0 at 2017

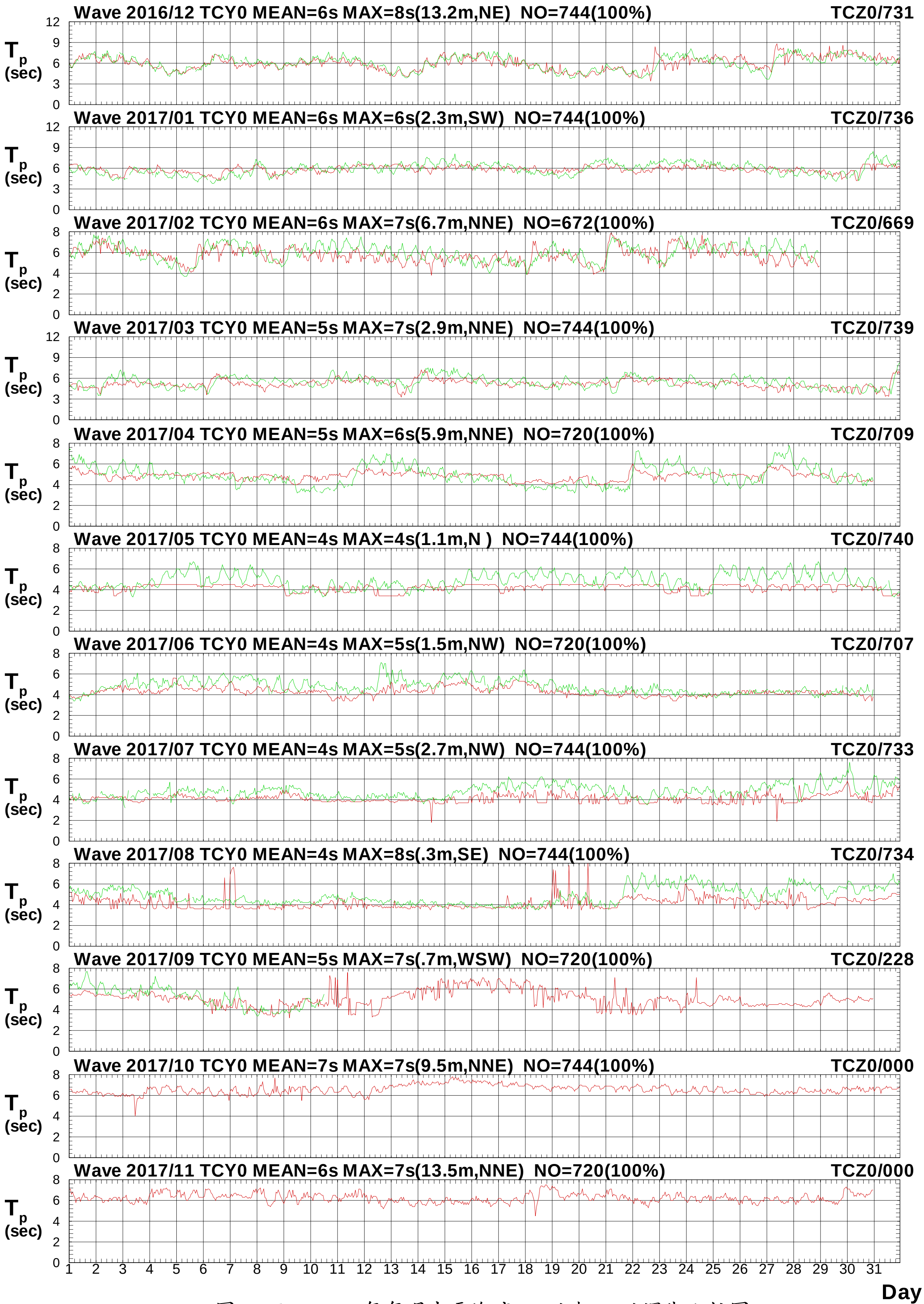

圖2.16b　2017年每月中雲海域 Y 站與 Z 站週期比較圖

V16CTCY0.1HA V16CTCZ0.1H0 V171TCY0.1HA V171TCZ0.1H0 V172TCY0.1HA V172TCZ0.1H0
V173TCY0.1HA V173TCZ0.1H0 V174TCY0.1HA V174TCZ0.1H0 V175TCY0.1HA V175TCZ0.1H0

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Wave Direction in Chung-Yun Seas of TCY0 at 2017

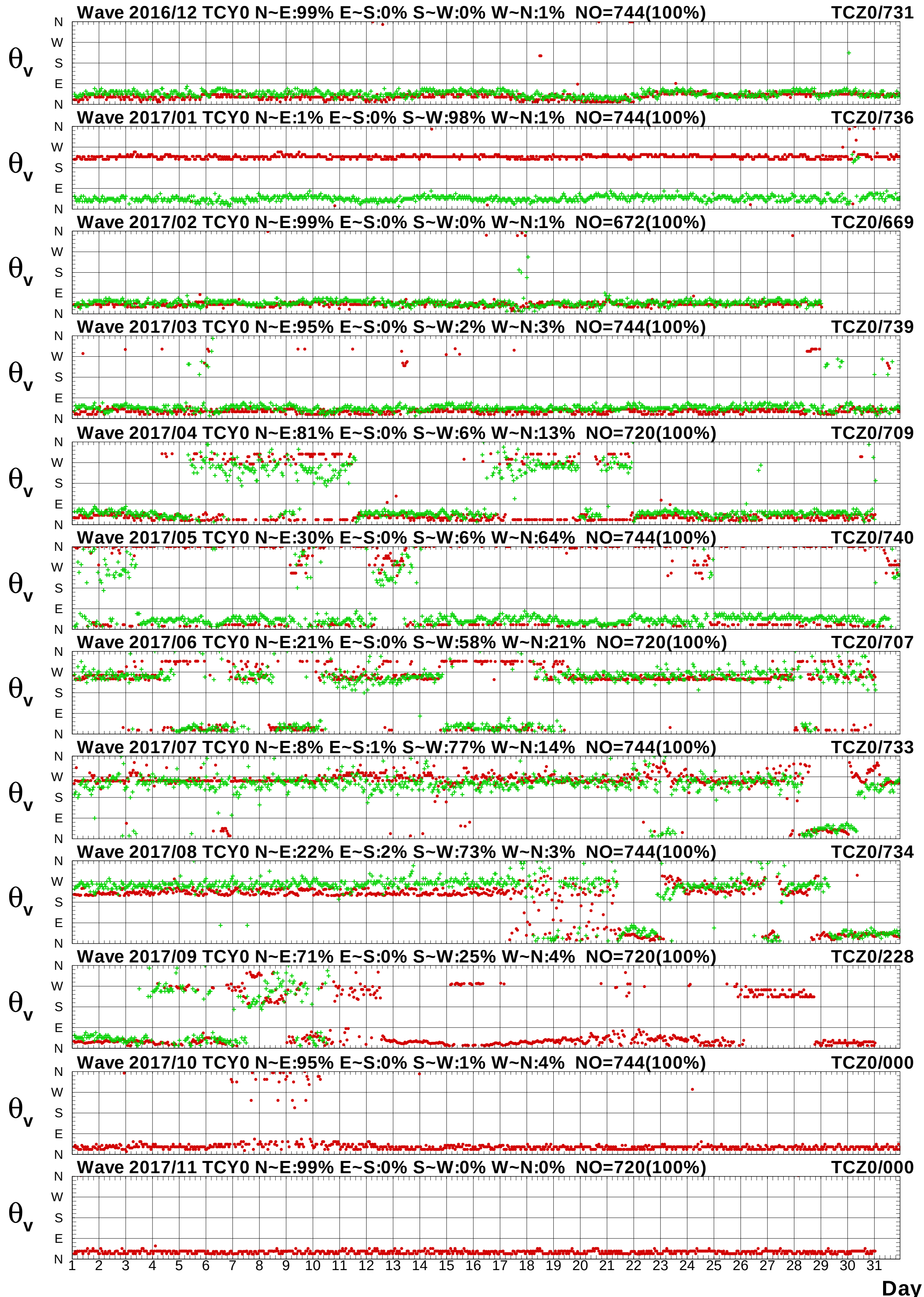

圖2.16c　2017年每月中雲海域 Y 站與 Z 站波向比較圖

V16CTCY0.1HA V16CTCZ0.1H0 V171TCY0.1HA V171TCZ0.1H0 V172TCY0.1HA V172TCZ0.1H0 V173TCY0.1HA V173TCZ0.1H0 V174TCY0.1HA V174TCZ0.1H0 V175TCY0.1HA V175TCZ0.1H0	Institute of Harbor & Marine Technology

Wave H_s in Chung-Yun Seas of TCY0 at 2017

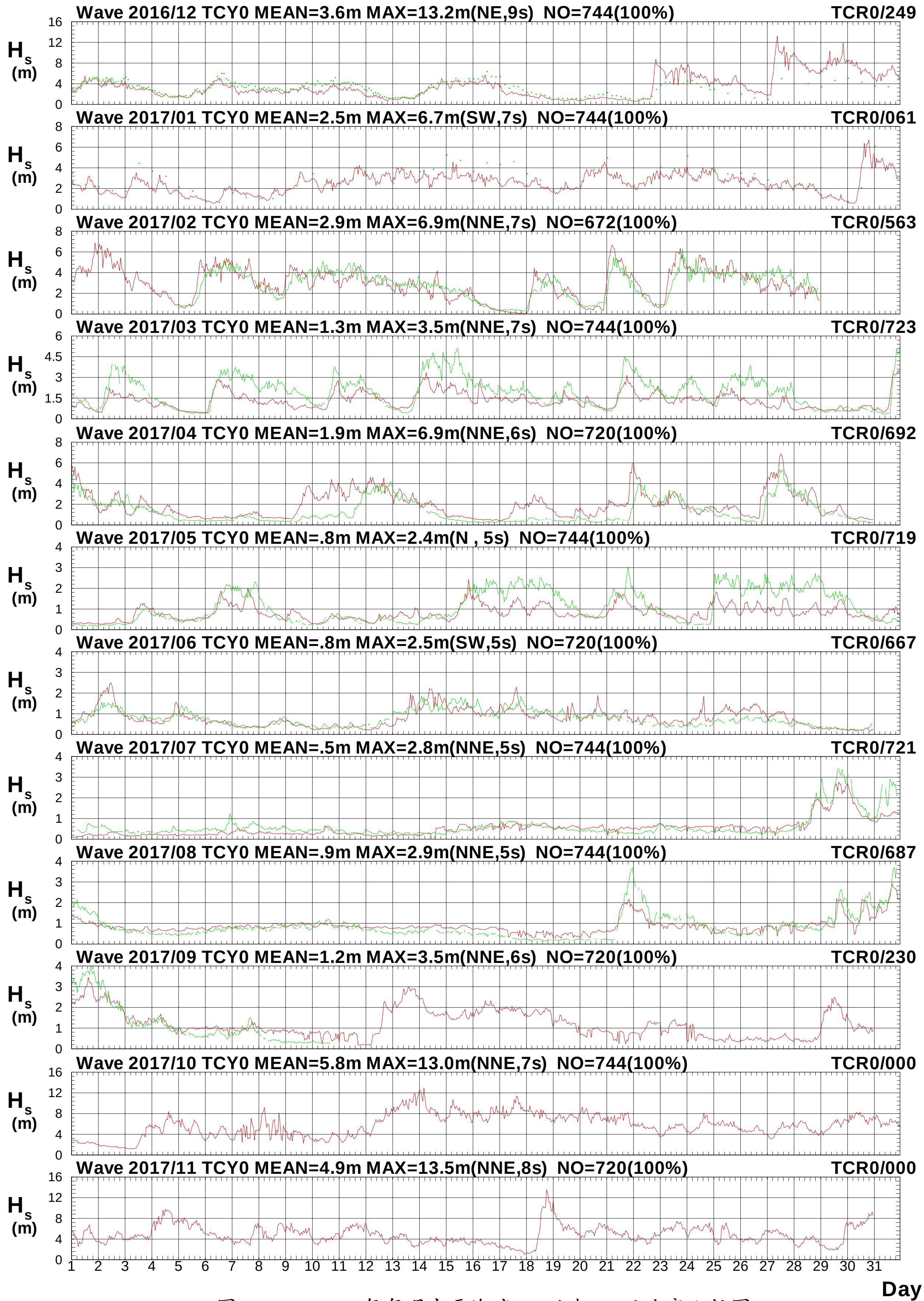

圖2.17a　2017年每月中雲海域 Y 站與 R 站波高比較圖

V16CTCY0.1HA V16CTCR0.1H0 V171TCY0.1HA V171TCR0.1H0 V172TCY0.1HA V172TCR0.1H0
V173TCY0.1HA V173TCR0.1H0 V174TCY0.1HA V174TCR0.1H0 V175TCY0.1HA V175TCR0.1H0

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Wave T_p in Chung-Yun Seas of TCY0 at 2017

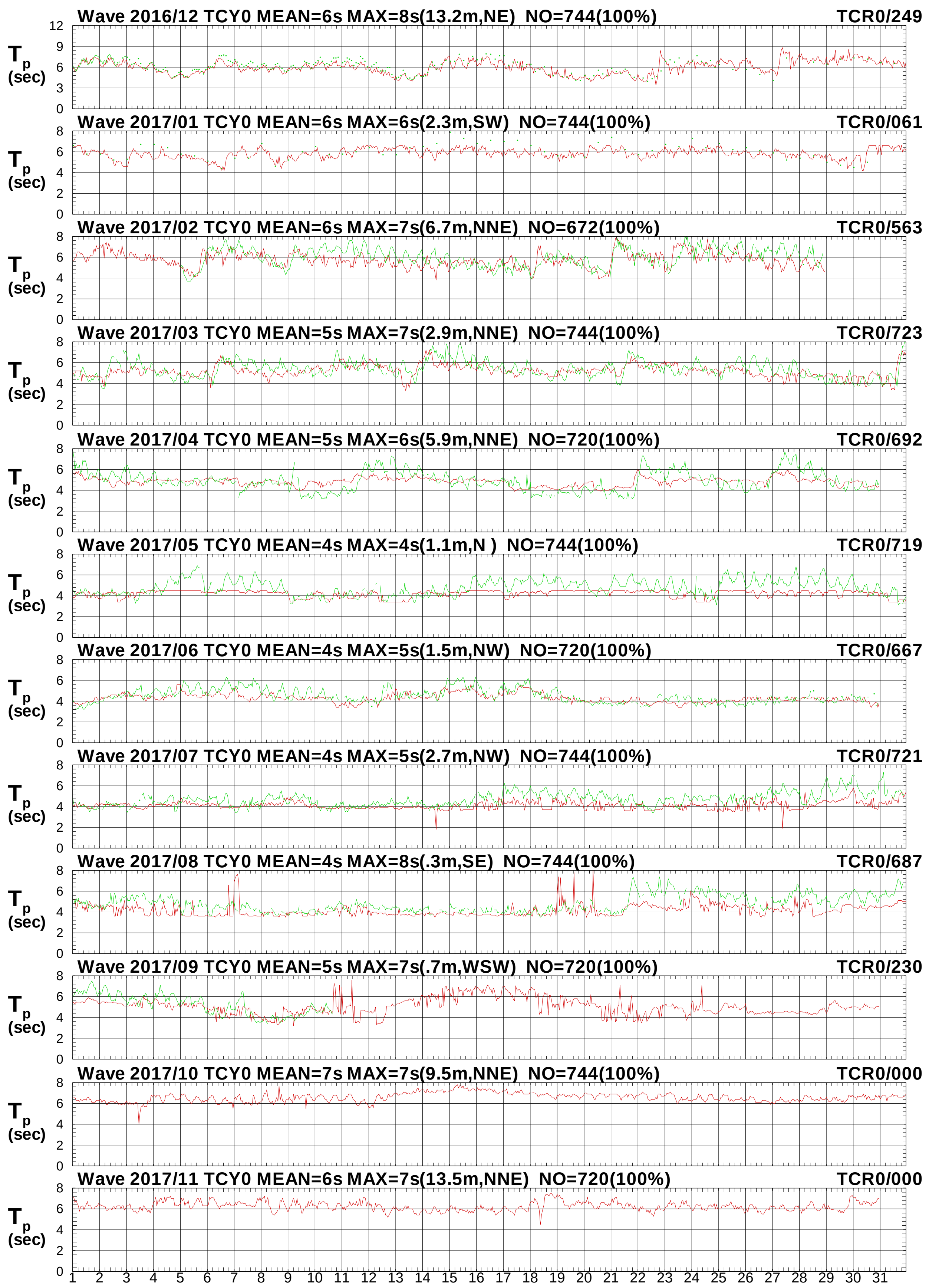

圖2.17b 2017年每月中雲海域 Y 站與 R 站週期比較圖

V16CTCY0.1HA V16CTCR0.1H0 V171TCY0.1HA V171TCR0.1H0 V172TCY0.1HA V172TCR0.1H0
V173TCY0.1HA V173TCR0.1H0 V174TCY0.1HA V174TCR0.1H0 V175TCY0.1HA V175TCR0.1H0

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Wave Direction in Chung-Yun Seas of TCY0 at 2017

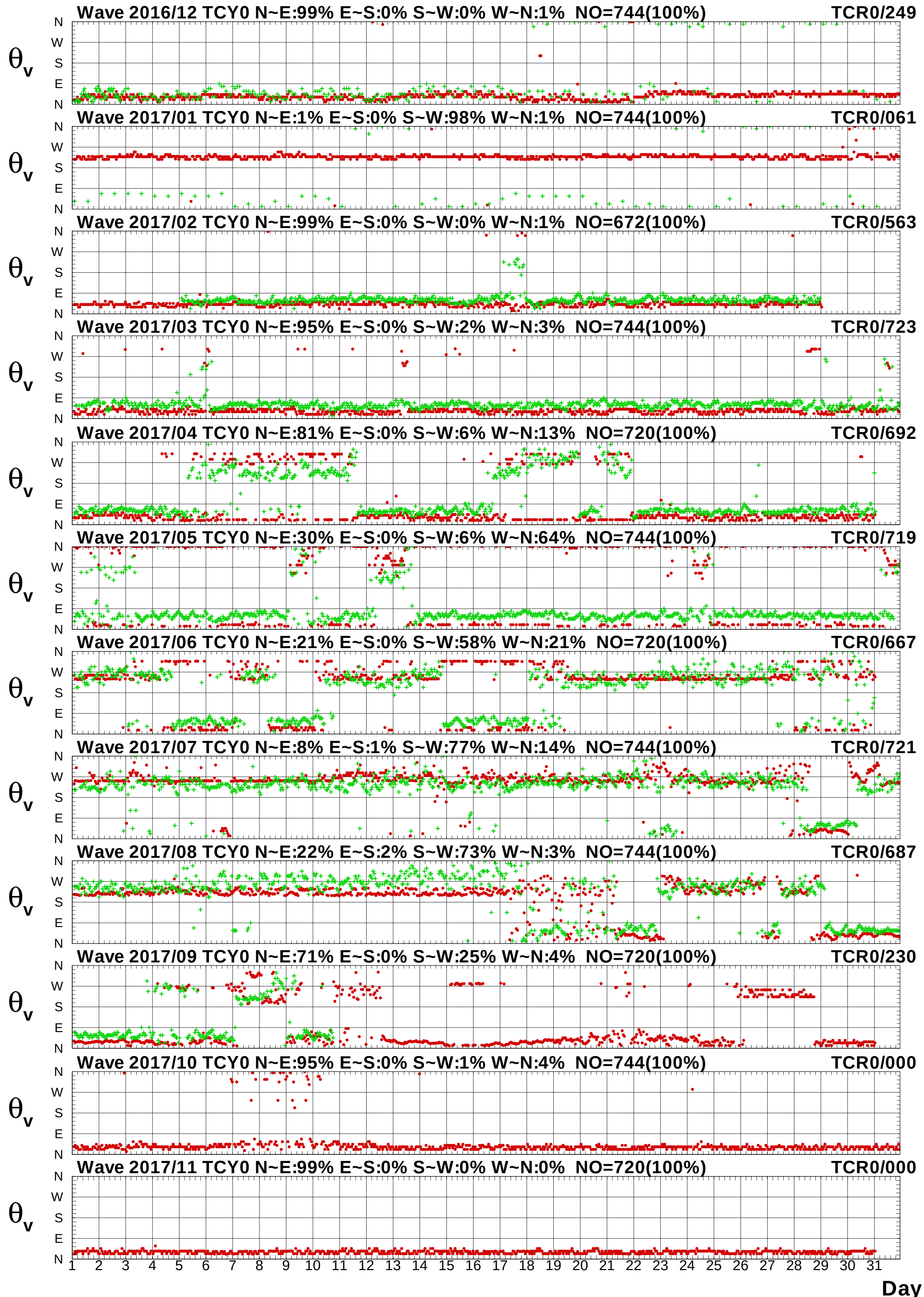

圖2.17c　2017年每月中雲海域 Y 站與 R 站波向比較圖

V16CTCY0.1HA V16CTCR0.1H0 V171TCY0.1HA V171TCR0.1H0 V172TCY0.1HA V172TCR0.1H0
V173TCY0.1HA V173TCR0.1H0 V174TCY0.1HA V174TCR0.1H0 V175TCY0.1HA V175TCR0.1H0

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Wave H_s in Chung-Yun Seas of TCY0 at 2017

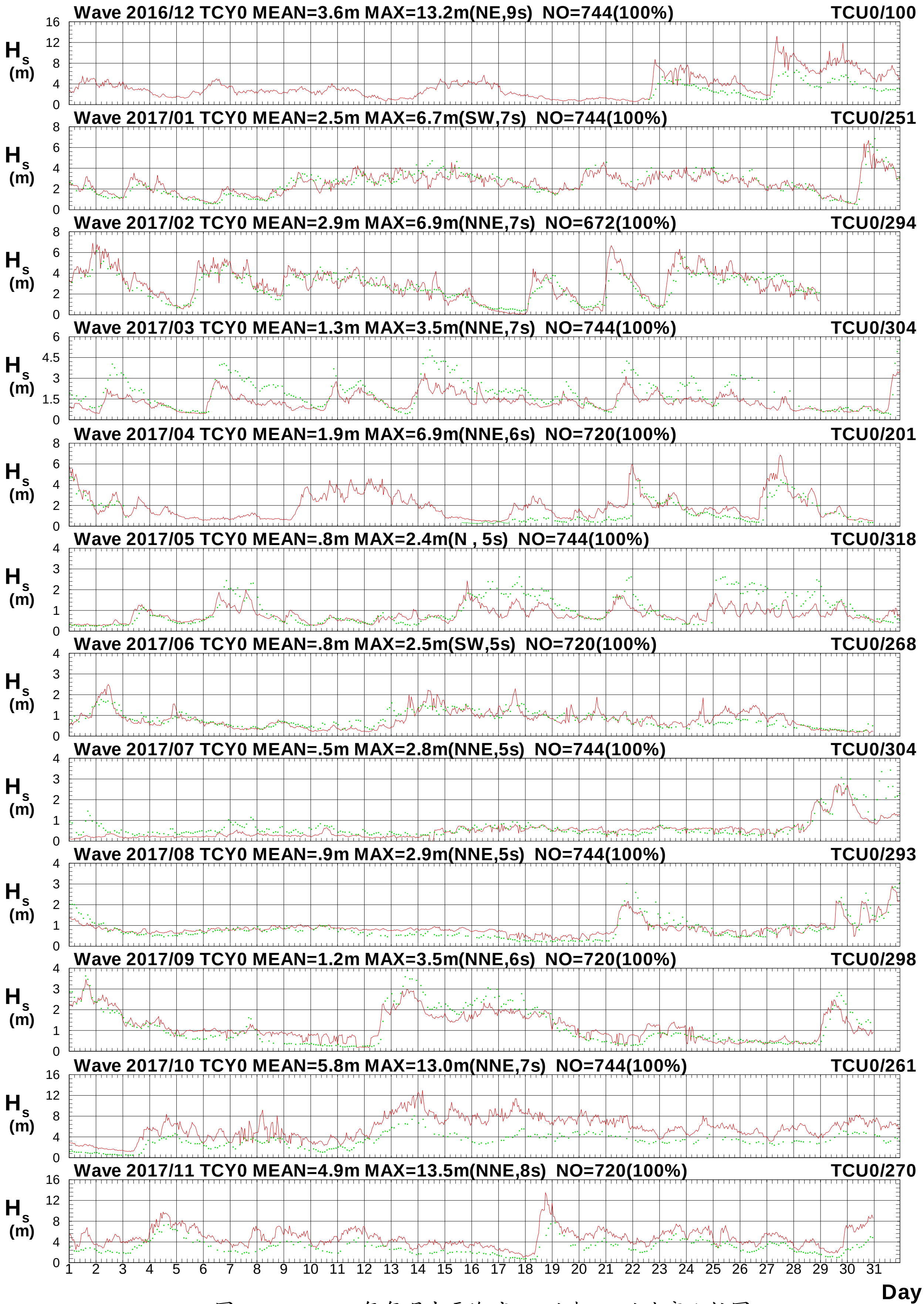

圖2.18a　2017年每月中雲海域 Y 站與 U 站波高比較圖

V16CTCY0.1HA V16CTCU0.1H0 V171TCY0.1HA V171TCU0.1H0 V172TCY0.1HA V172TCU0.1H0 V173TCY0.1HA V173TCU0.1H0 V174TCY0.1HA V174TCU0.1H0 V175TCY0.1HA V175TCU0.1H0	Institute of Harbor & Marine Technology

Wave T_p in Chung-Yun Seas of TCY0 at 2017

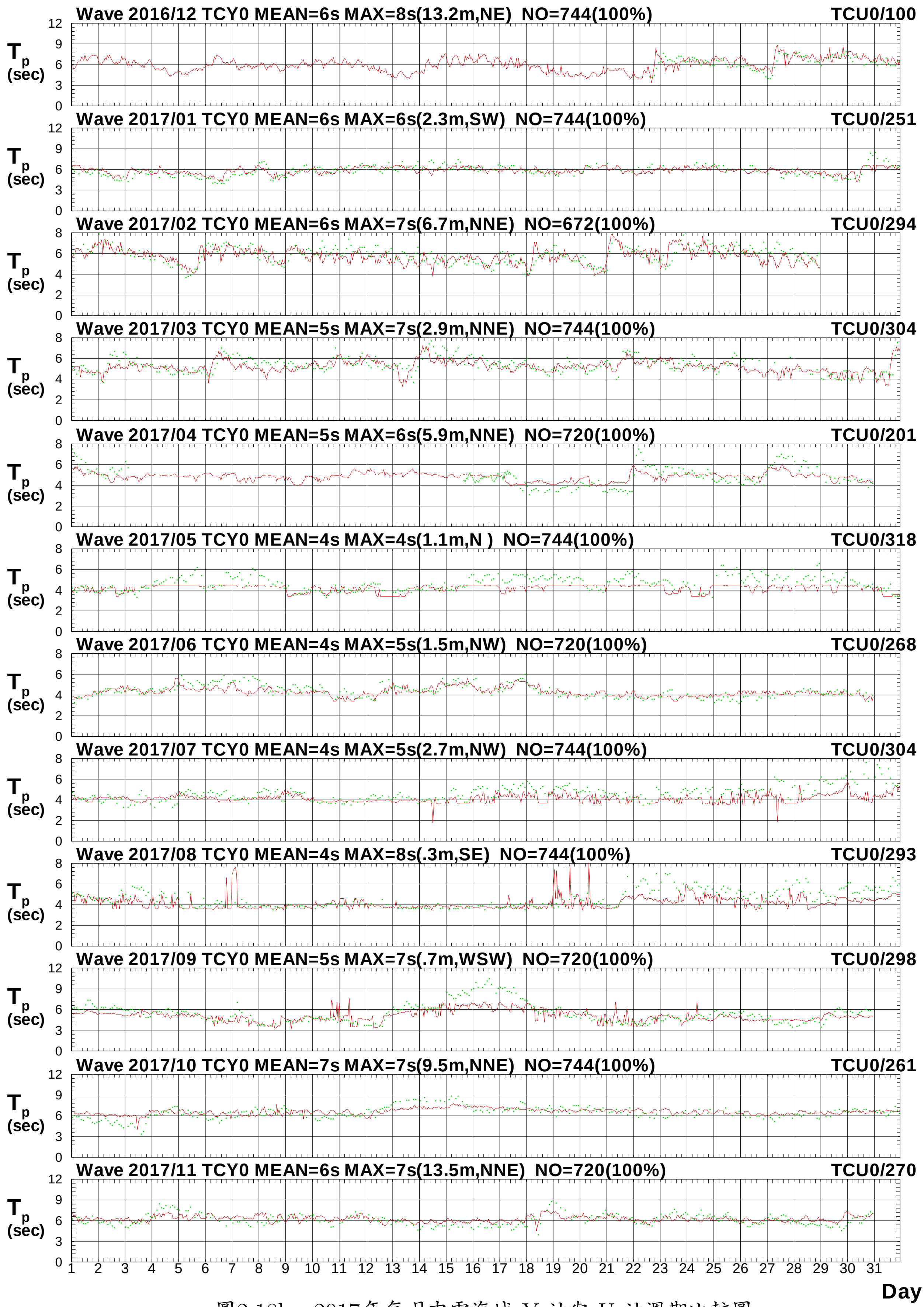

圖2.18b 2017年每月中雲海域 Y 站與 U 站週期比較圖

V16CTCY0.1HA V16CTCU0.1H0 V171TCY0.1HA V171TCU0.1H0 V172TCY0.1HA V172TCU0.1H0
V173TCY0.1HA V173TCU0.1H0 V174TCY0.1HA V174TCU0.1H0 V175TCY0.1HA V175TCU0.1H0

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Wave Direction in Chung-Yun Seas of TCY0 at 2017

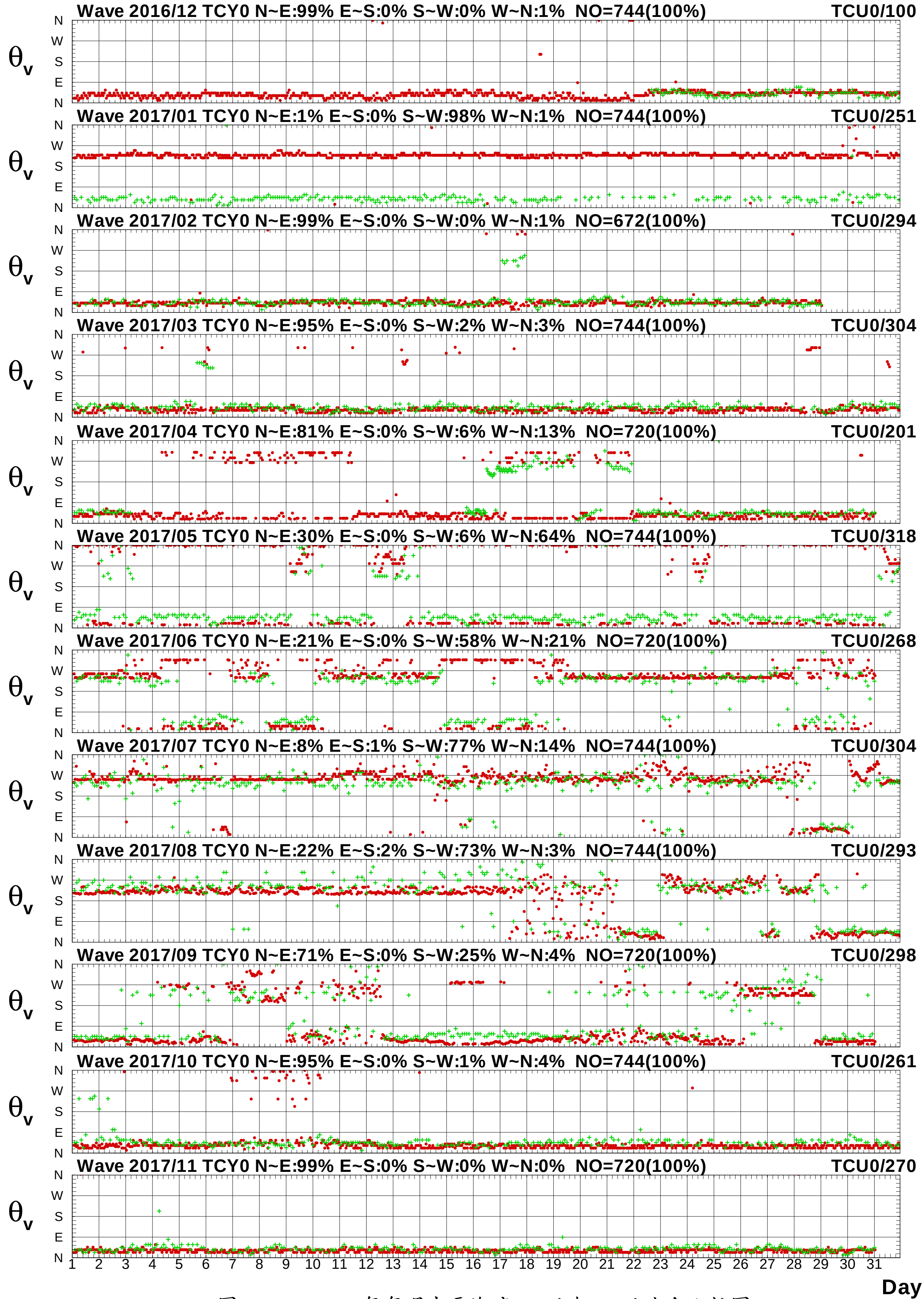

圖2.18c　2017年每月中雲海域 Y 站與 U 站波向比較圖

V16CTCY0.1HA V16CTCU0.1H0 V171TCY0.1HA V171TCU0.1H0 V172TCY0.1HA V172TCU0.1H0 V173TCY0.1HA V173TCU0.1H0 V174TCY0.1HA V174TCU0.1H0 V175TCY0.1HA V175TCU0.1H0	Institute of Harbor & Marine Technology

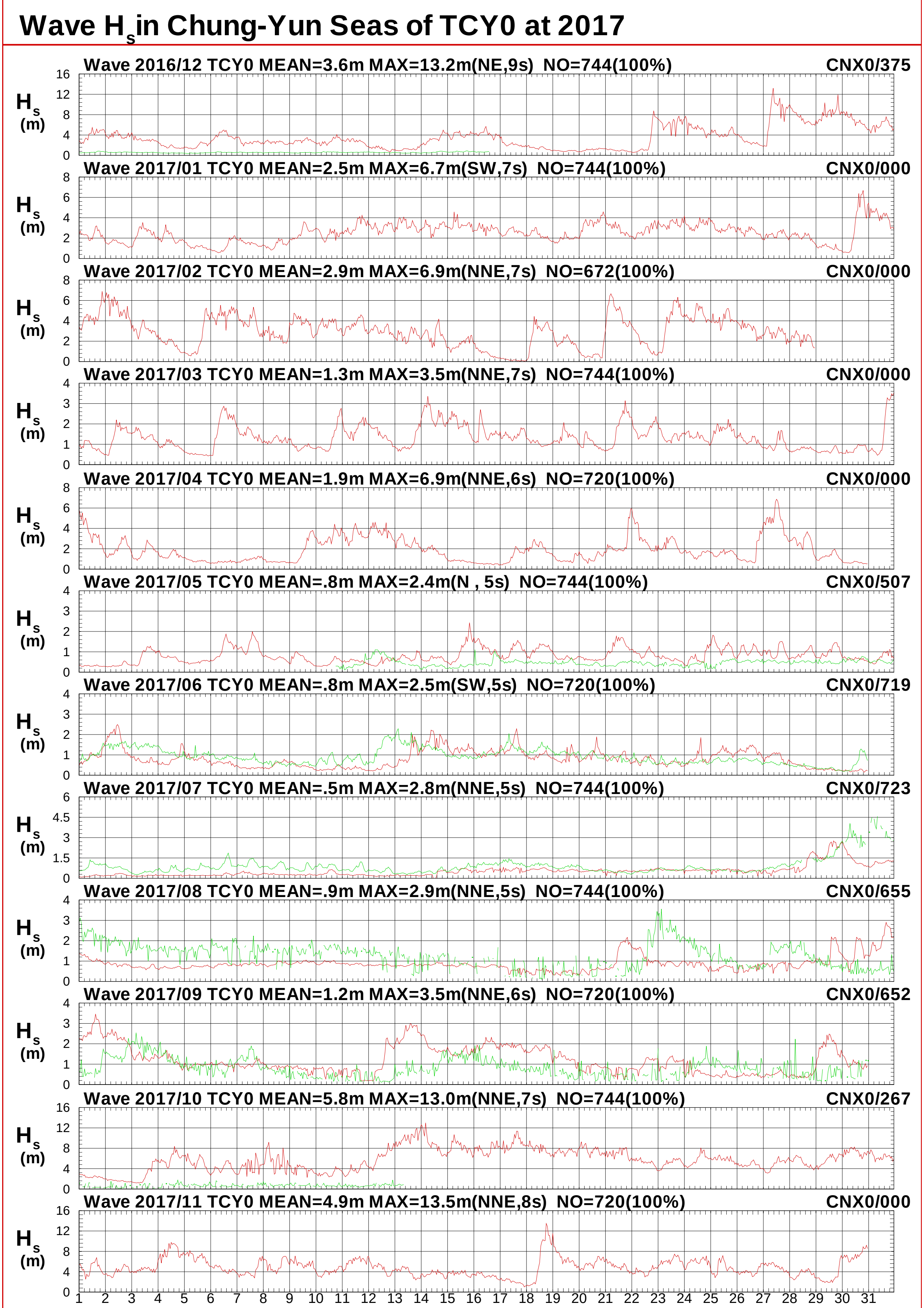

圖2.19a　2017年每月中雲海域 Y 站與嘉南海域 X 站波高圖

V16CTCY0.1HA V16CCNX0.1H0 V171TCY0.1HA V171CNX0.1H0 V172TCY0.1HA V172CNX0.1H0
V173TCY0.1HA V173CNX0.1H0 V174TCY0.1HA V174CNX0.1H0 V175TCY0.1HA V175CNX0.1H0

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Wave T_p in Chung-Yun Seas of TCY0 at 2017

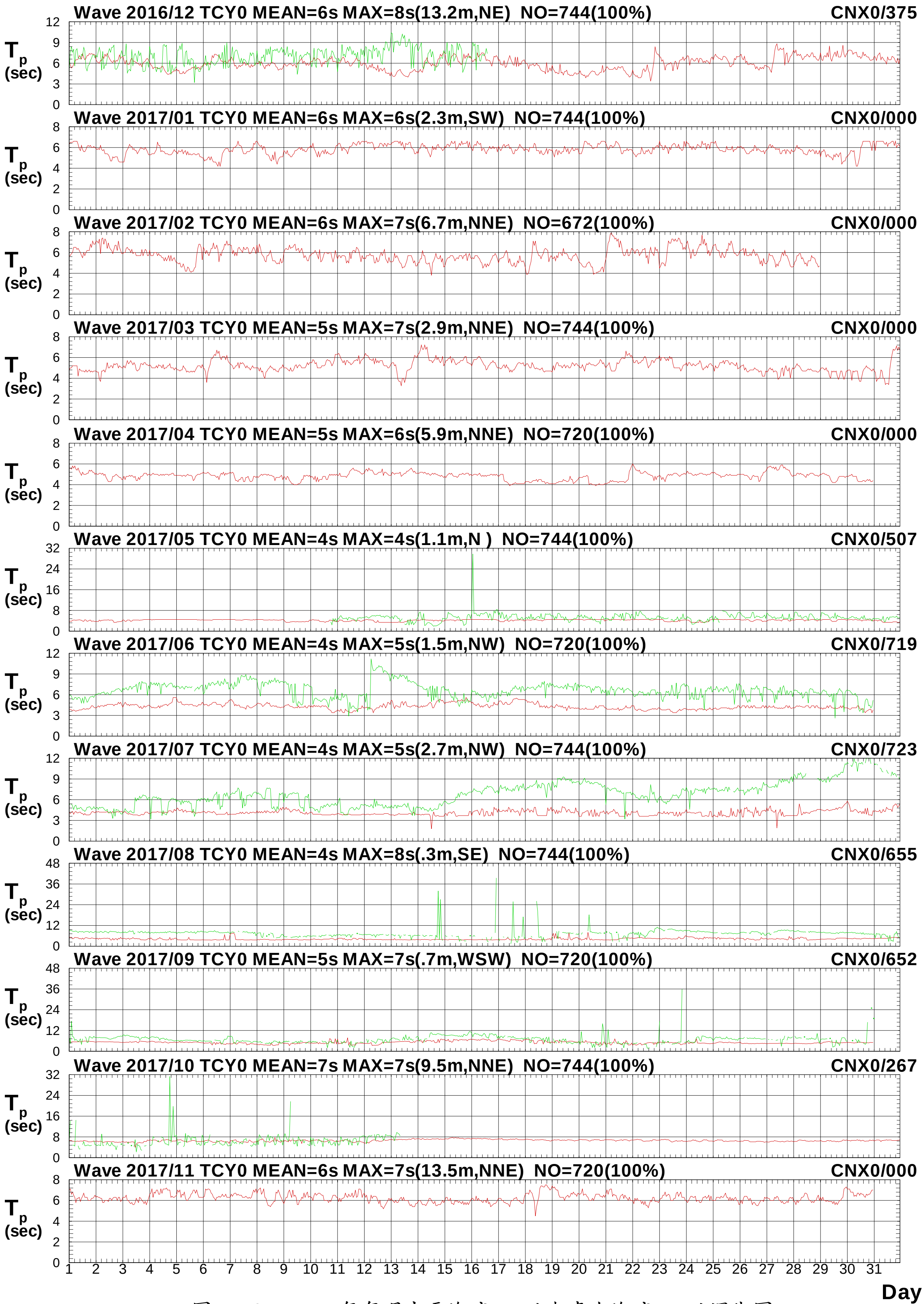

圖2.19b　2017年每月中雲海域 Y 站與嘉南海域 X 站週期圖

V16CTCY0.1HA V16CCNX0.1H0 V171TCY0.1HA V171CNX0.1H0 V172TCY0.1HA V172CNX0.1H0 V173TCY0.1HA V173CNX0.1H0 V174TCY0.1HA V174CNX0.1H0 V175TCY0.1HA V175CNX0.1H0	Institute of Harbor & Marine Technology

Wave Direction in Chung-Yun Seas of TCY0 at 2017

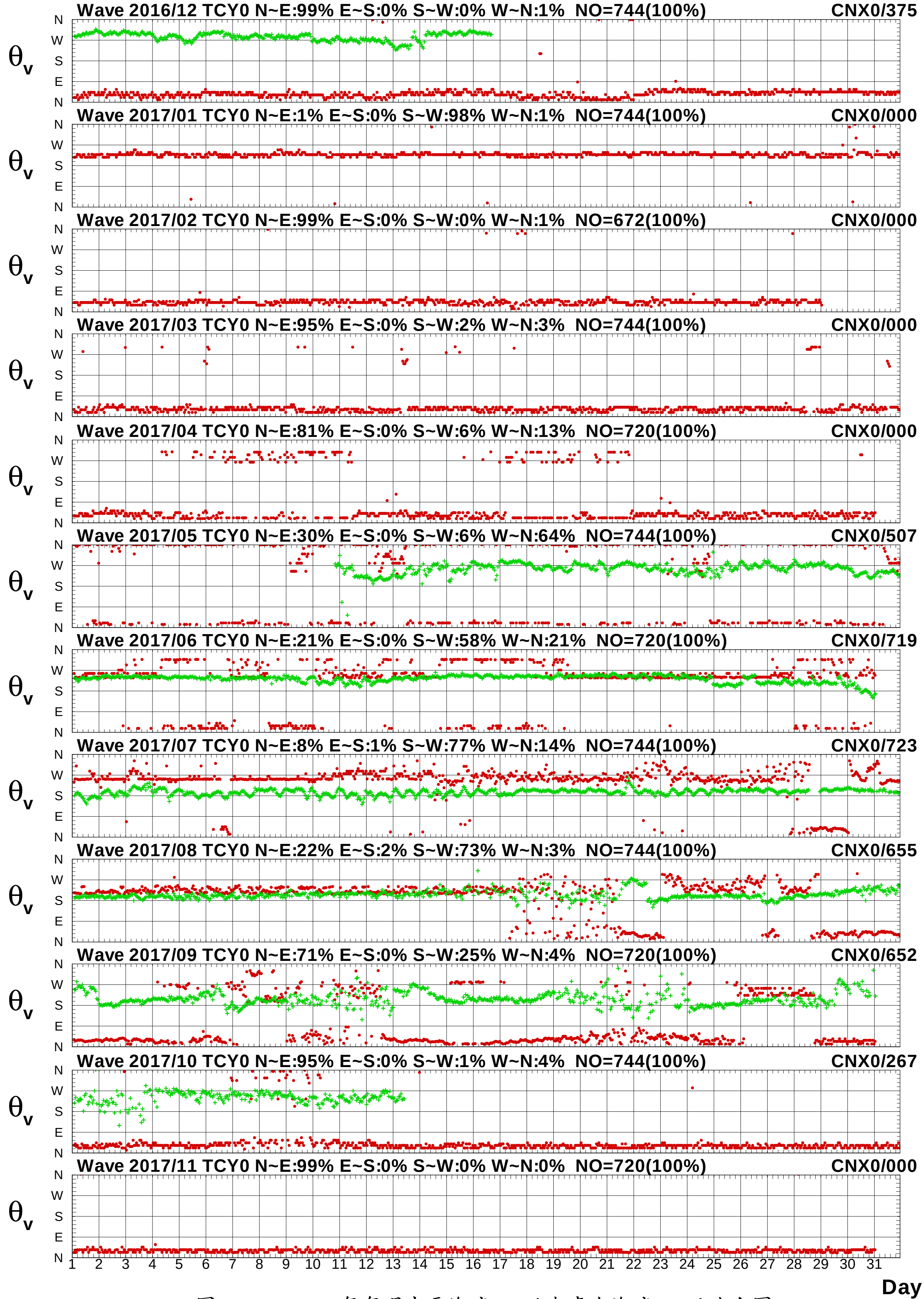

圖2.19c　2017年每月中雲海域 Y 站與嘉南海域 X 站波向圖

V16CTCY0.1HA V16CCNX0.1H0 V171TCY0.1HA V171CNX0.1H0 V172TCY0.1HA V172CNX0.1H0
V173TCY0.1HA V173CNX0.1H0 V174TCY0.1HA V174CNX0.1H0 V175TCY0.1HA V175CNX0.1H0

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Wave H_s in Chung-Yun Seas of TCY0 at 2017

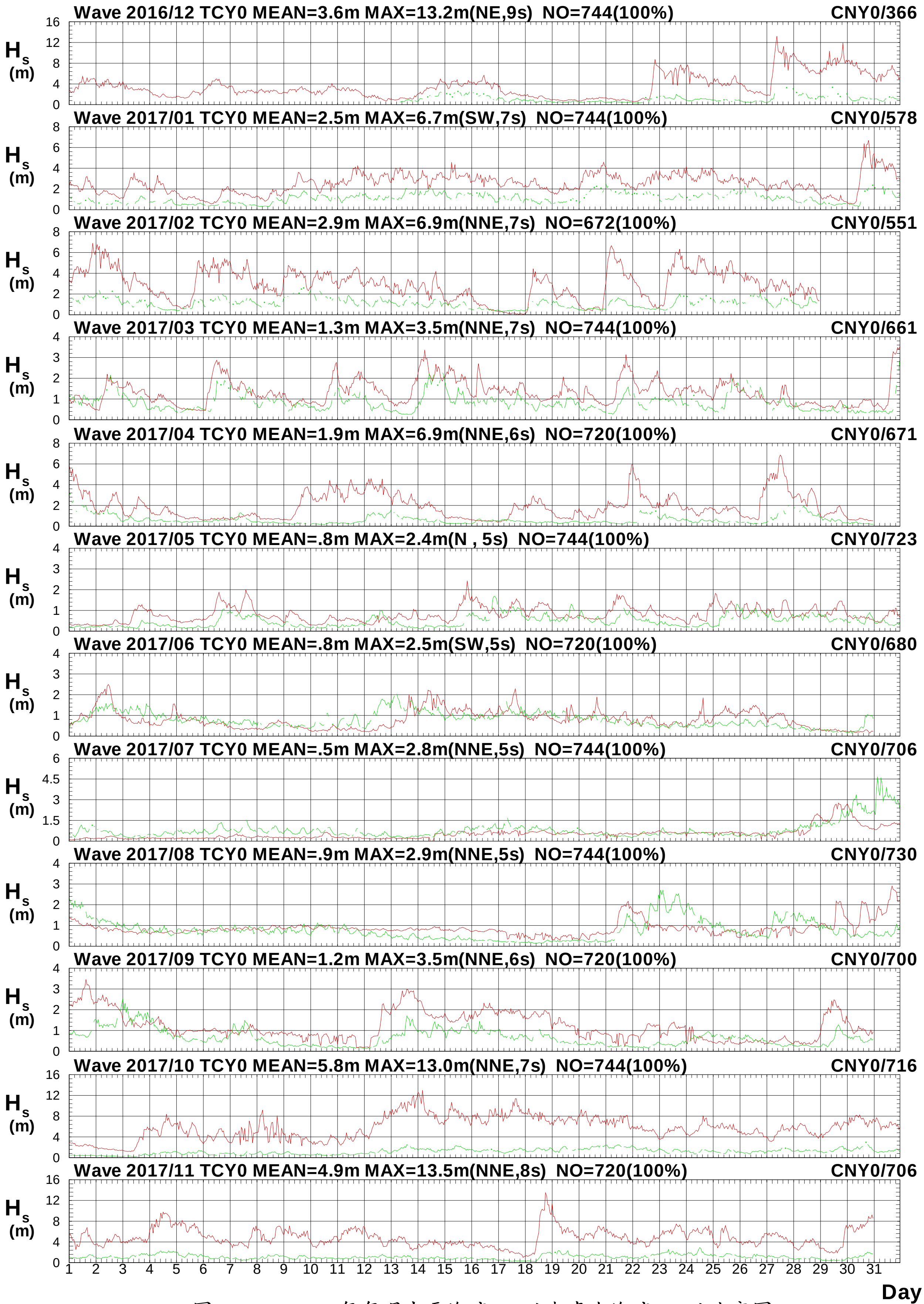

圖2.20a　2017年每月中雲海域 Y 站與嘉南海域 Y 站波高圖

V16CTCY0.1HA V16CCNY0.1H0 V171TCY0.1HA V171CNY0.1H0 V172TCY0.1HA V172CNY0.1H0
V173TCY0.1HA V173CNY0.1H0 V174TCY0.1HA V174CNY0.1H0 V175TCY0.1HA V175CNY0.1H0

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Wave T_p in Chung-Yun Seas of TCY0 at 2017

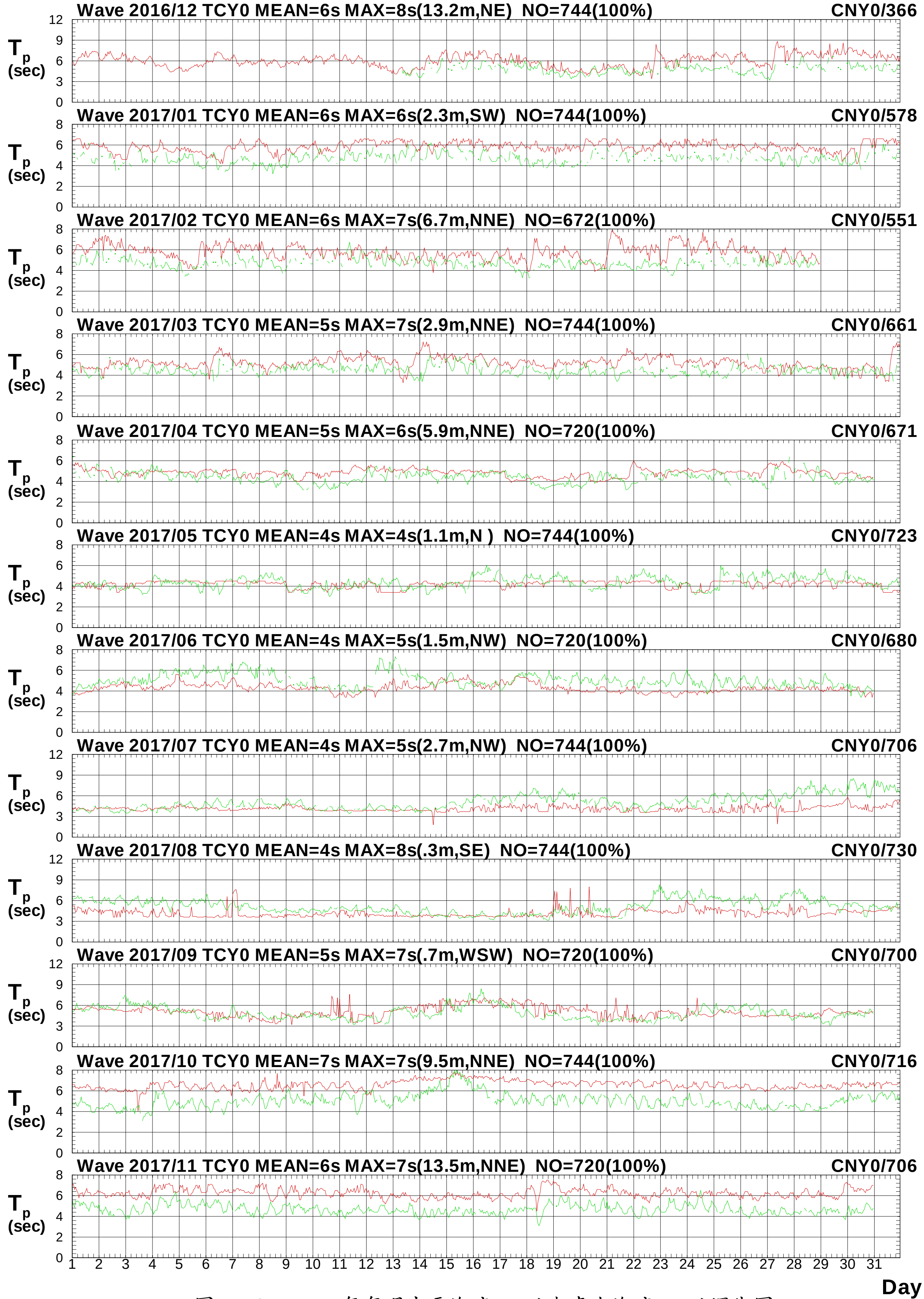

圖2.20b　2017年每月中雲海域 Y 站與嘉南海域 Y 站週期圖

V16CTCY0.1HA V16CCNY0.1H0 V171TCY0.1HA V171CNY0.1H0 V172TCY0.1HA V172CNY0.1H0 V173TCY0.1HA V173CNY0.1H0 V174TCY0.1HA V174CNY0.1H0 V175TCY0.1HA V175CNY0.1H0	Institute of Harbor & Marine Technology

Wave Direction in Chung-Yun Seas of TCY0 at 2017

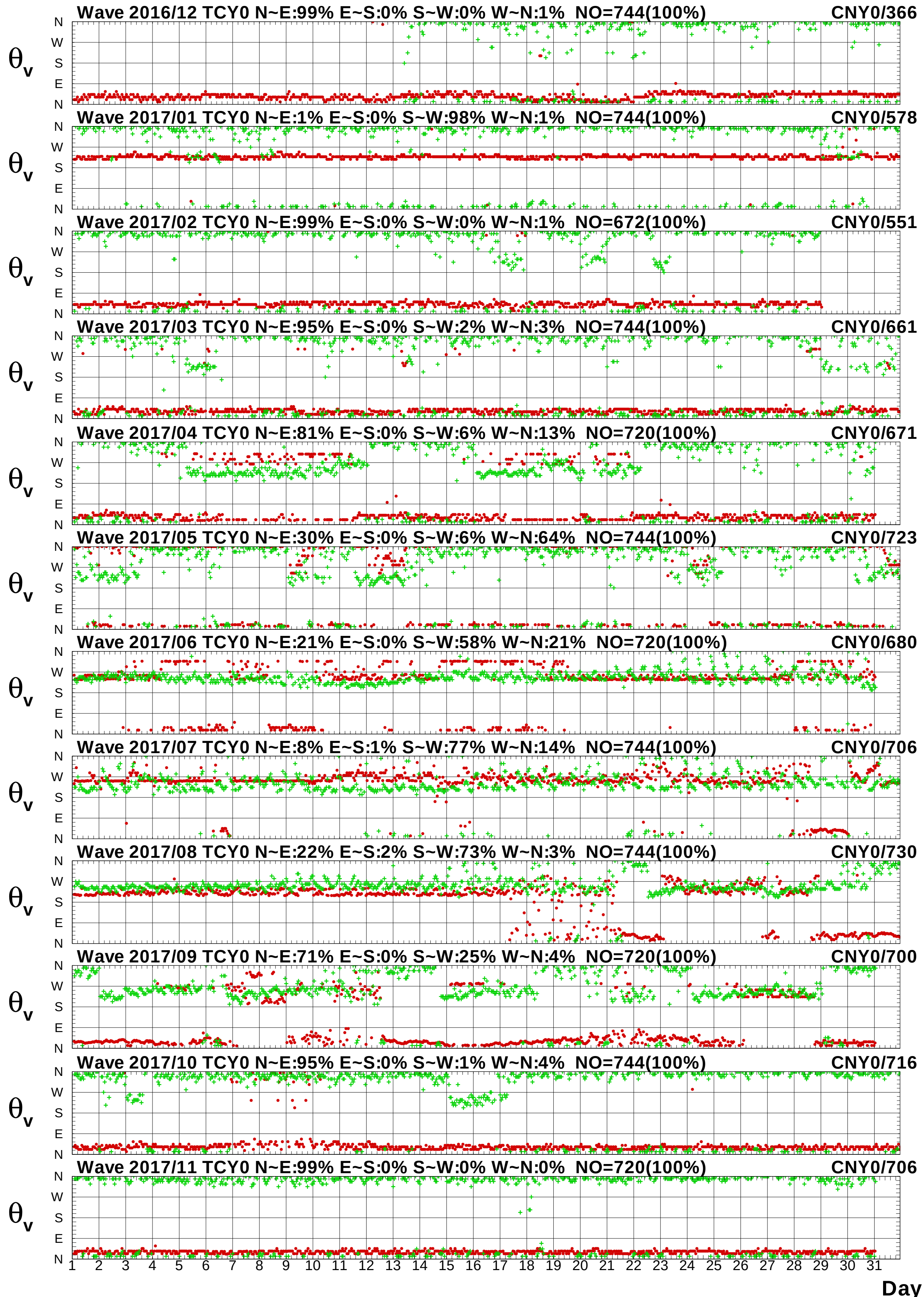

圖2.20c　2017年每月中雲海域 Y 站與嘉南海域 Y 站波向圖

V16CTCY0.1HA V16CCNY0.1H0 V171TCY0.1HA V171CNY0.1H0 V172TCY0.1HA V172CNY0.1H0
V173TCY0.1HA V173CNY0.1H0 V174TCY0.1HA V174CNY0.1H0 V175TCY0.1HA V175CNY0.1H0

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Wave H_s in Chung-Yun Seas of TCY0 at 2017

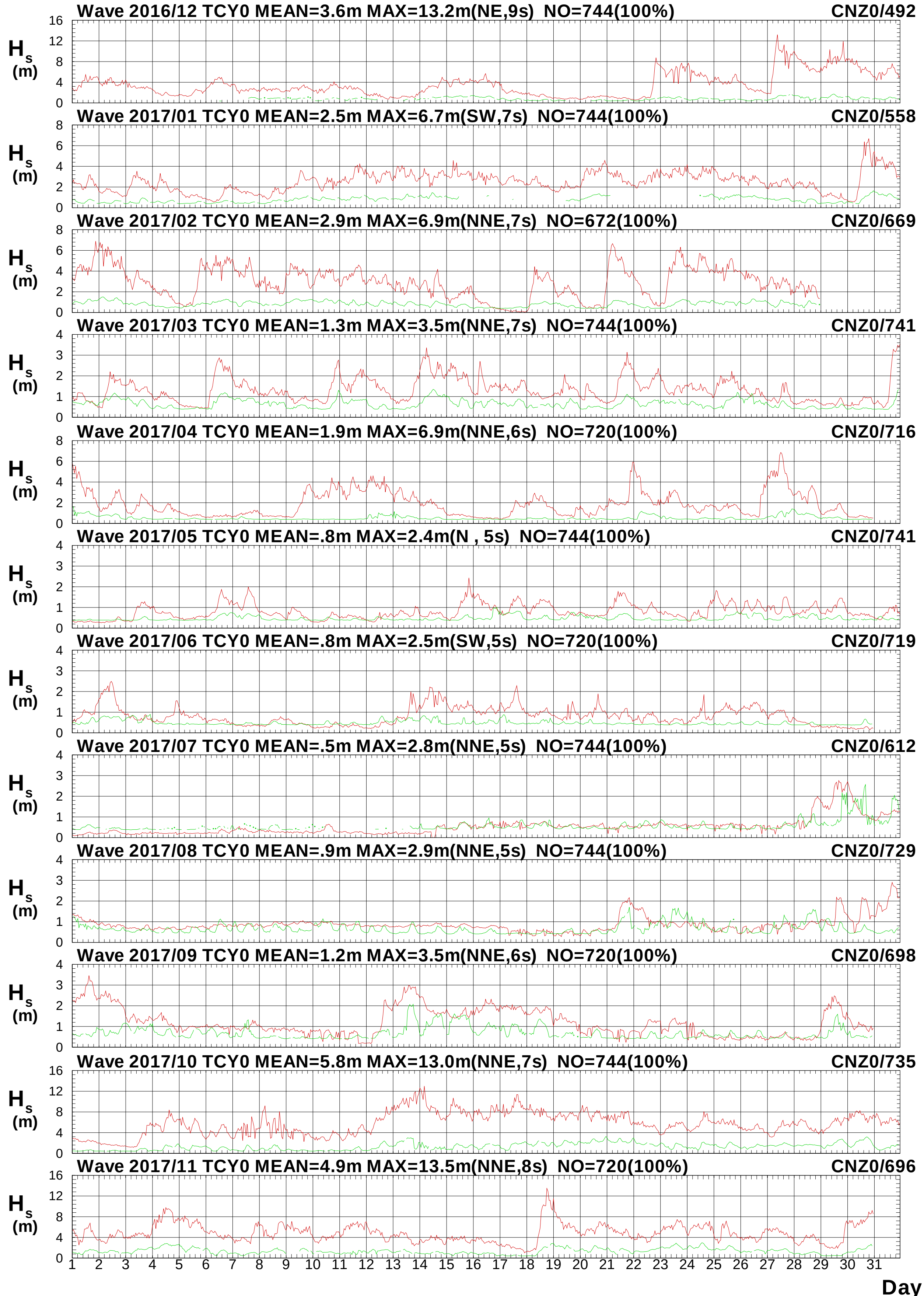

圖2.21a　2017年每月中雲海域 Y 站與嘉南海域 Z 站波高圖

V16CTCY0.1HA V16CCNZ0.1H0 V171TCY0.1HA V171CNZ0.1H0 V172TCY0.1HA V172CNZ0.1H0
V173TCY0.1HA V173CNZ0.1H0 V174TCY0.1HA V174CNZ0.1H0 V175TCY0.1HA V175CNZ0.1H0

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Wave T_p in Chung-Yun Seas of TCY0 at 2017

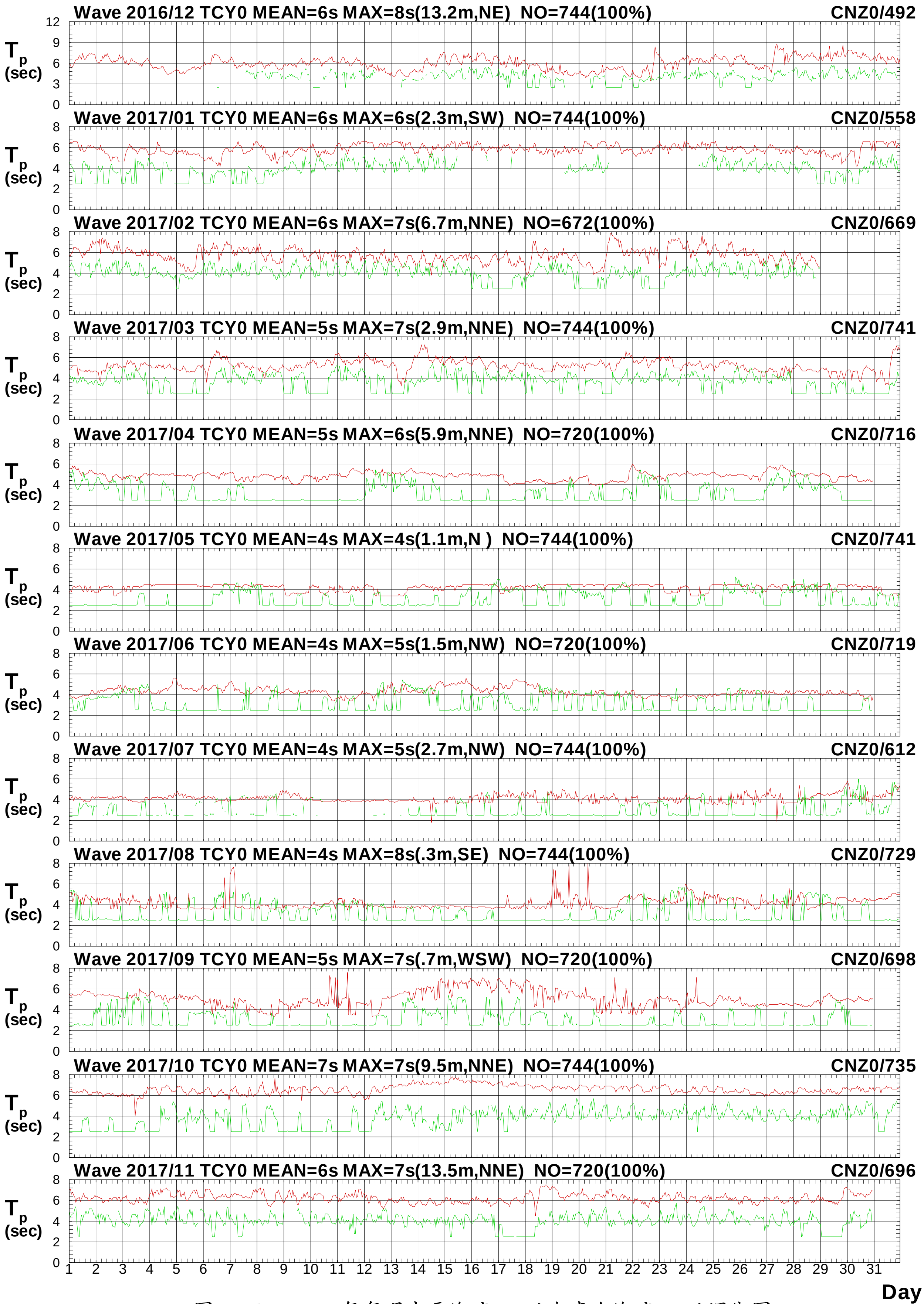

圖2.21b　2017年每月中雲海域 Y 站與嘉南海域 Z 站週期圖

V16CTCY0.1HA V16CCNZ0.1H0 V171TCY0.1HA V171CNZ0.1H0 V172TCY0.1HA V172CNZ0.1H0 V173TCY0.1HA V173CNZ0.1H0 V174TCY0.1HA V174CNZ0.1H0 V175TCY0.1HA V175CNZ0.1H0	Institute of Harbor & Marine Technology

Wave Direction in Chung-Yun Seas of TCY0 at 2017

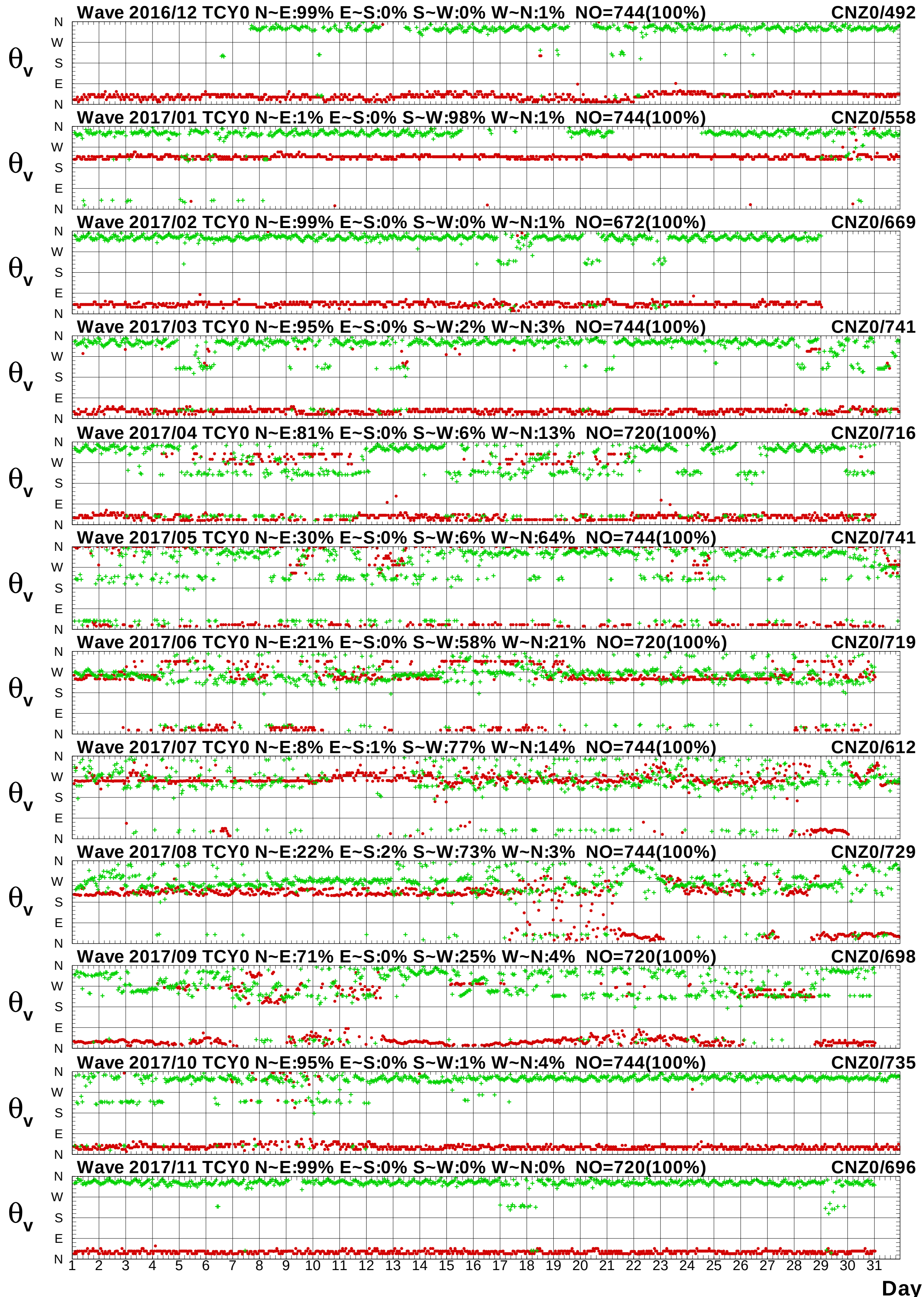

圖2.21c　2017年每月中雲海域 Y 站與嘉南海域 Z 站波向圖

V16CTCY0.1HA V16CCNZ0.1H0 V171TCY0.1HA V171CNZ0.1H0 V172TCY0.1HA V172CNZ0.1H0
V173TCY0.1HA V173CNZ0.1H0 V174TCY0.1HA V174CNZ0.1H0 V175TCY0.1HA V175CNZ0.1H0

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Wave H_s in Chung-Yun Seas of TCY0 at 2017

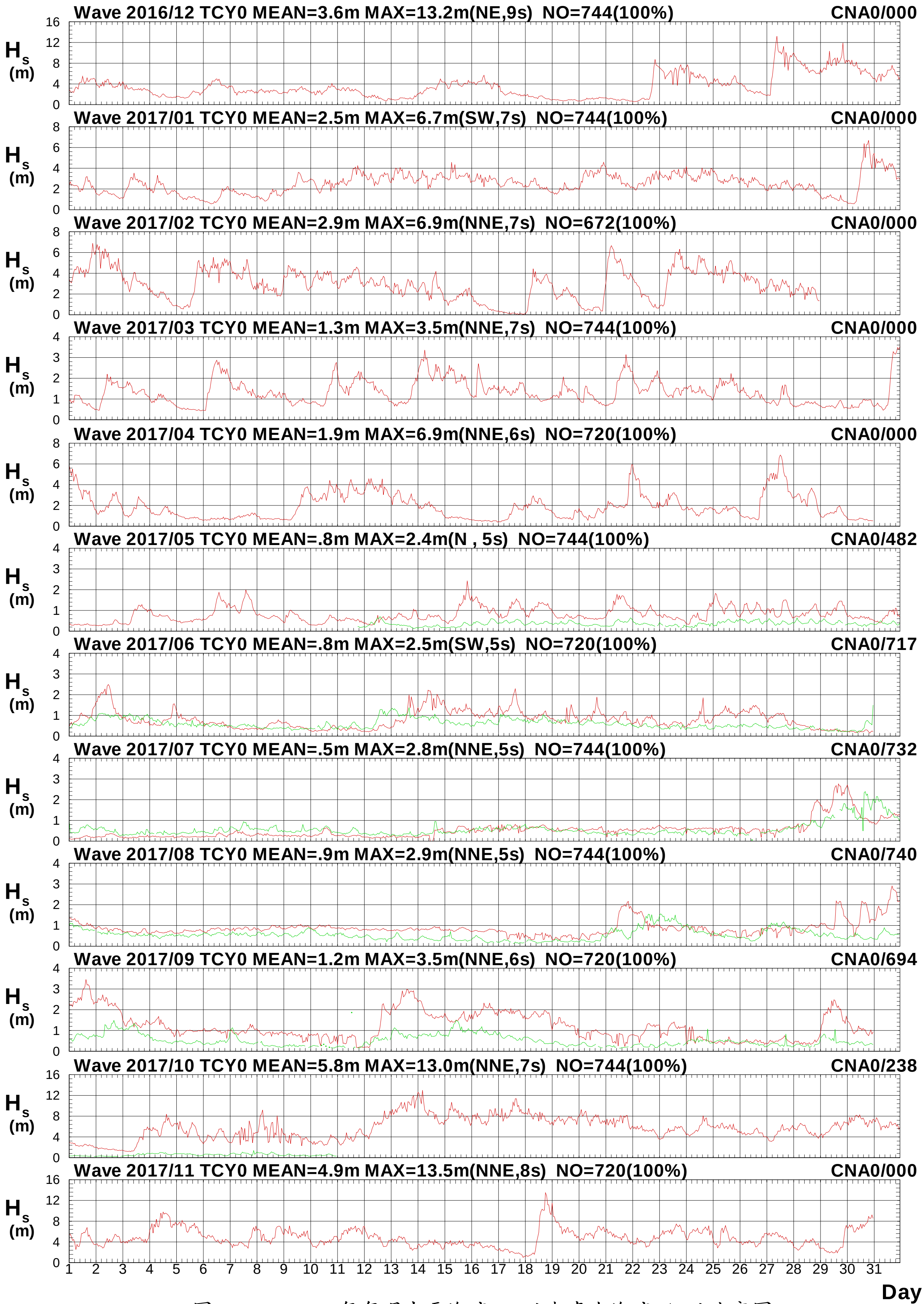

圖2.22a　2017年每月中雲海域 Y 站與嘉南海域 A 站波高圖

V16CTCY0.1HA V16CCNA0.1H0 V171TCY0.1HA V171CNA0.1H0 V172TCY0.1HA V172CNA0.1H0
V173TCY0.1HA V173CNA0.1H0 V174TCY0.1HA V174CNA0.1H0 V175TCY0.1HA V175CNA0.1H0

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Wave T_p in Chung-Yun Seas of TCY0 at 2017

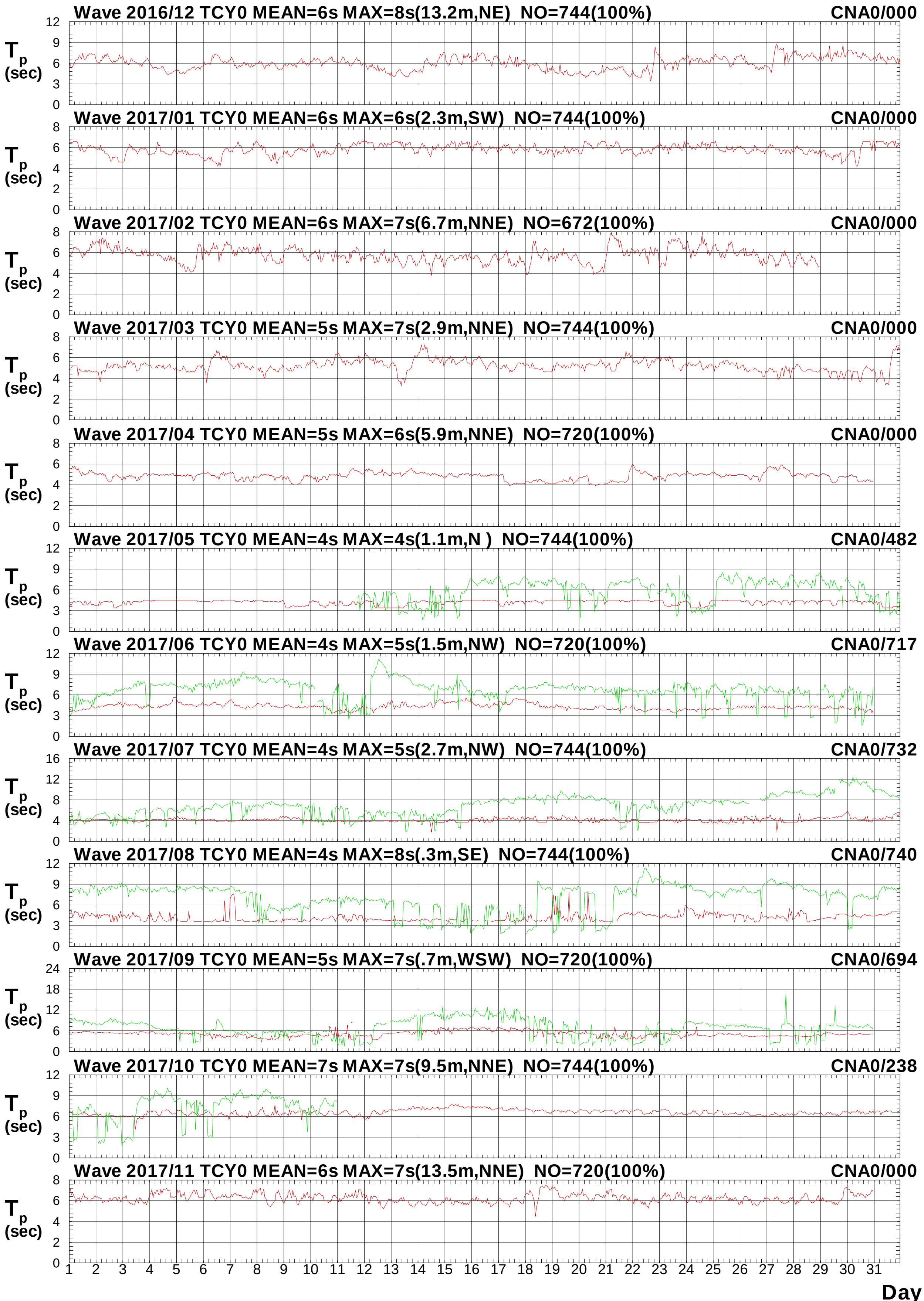

圖2.22b 2017年每月中雲海域 Y 站與嘉南海域 A 站週期圖

V16CTCY0.1HA V16CCNA0.1H0 V171TCY0.1HA V171CNA0.1H0 V172TCY0.1HA V172CNA0.1H0
V173TCY0.1HA V173CNA0.1H0 V174TCY0.1HA V174CNA0.1H0 V175TCY0.1HA V175CNA0.1H0

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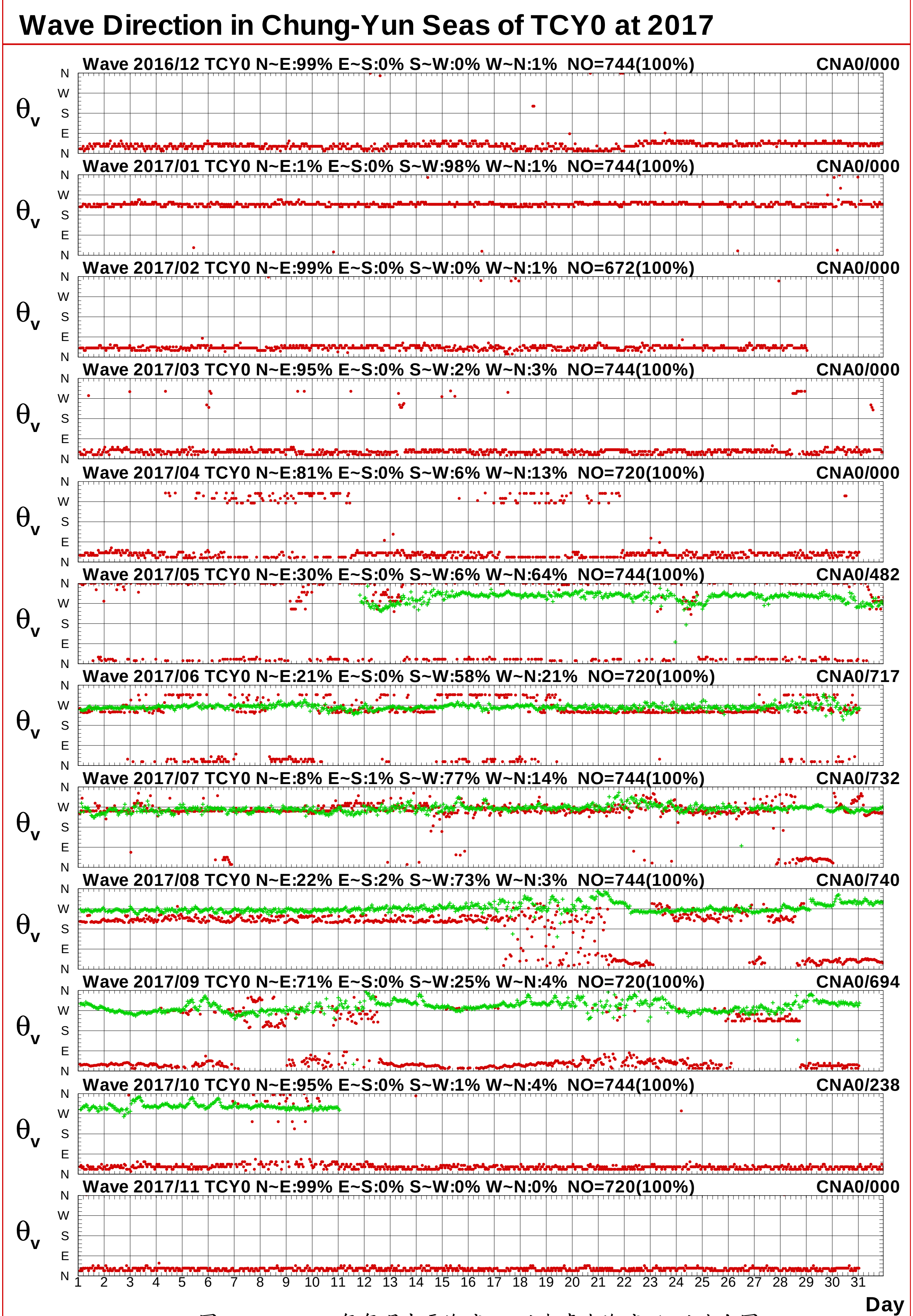

圖2.22c 2017年每月中雲海域 Y 站與嘉南海域 A 站波向圖

V16CTCY0.1HA V16CCNA0.1H0 V171TCY0.1HA V171CNA0.1H0 V172TCY0.1HA V172CNA0.1H0
V173TCY0.1HA V173CNA0.1H0 V174TCY0.1HA V174CNA0.1H0 V175TCY0.1HA V175CNA0.1H0

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Wave H_s in Chung-Yun Seas of TCY0 at 2017

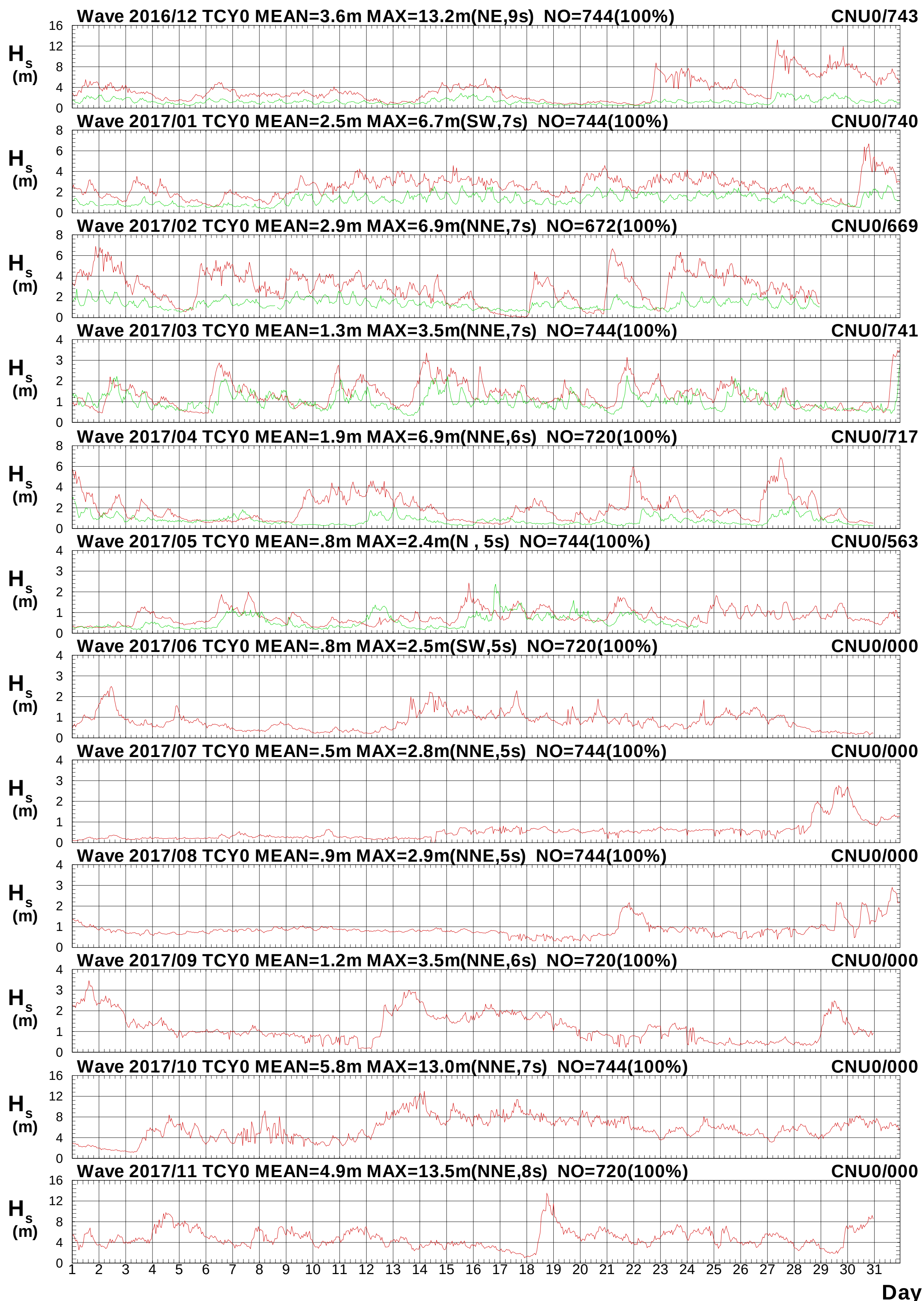

圖2.23a　2017年每月中雲海域 Y 站與嘉南海域 U 站波高圖

V16CTCY0.1HA V16CCNU0.1H0 V171TCY0.1HA V171CNU0.1H0 V172TCY0.1HA V172CNU0.1H0 V173TCY0.1HA V173CNU0.1H0 V174TCY0.1HA V174CNU0.1H0 V175TCY0.1HA V175CNU0.1H0	Institute of Harbor & Marine Technology

Wave T_p in Chung-Yun Seas of TCY0 at 2017

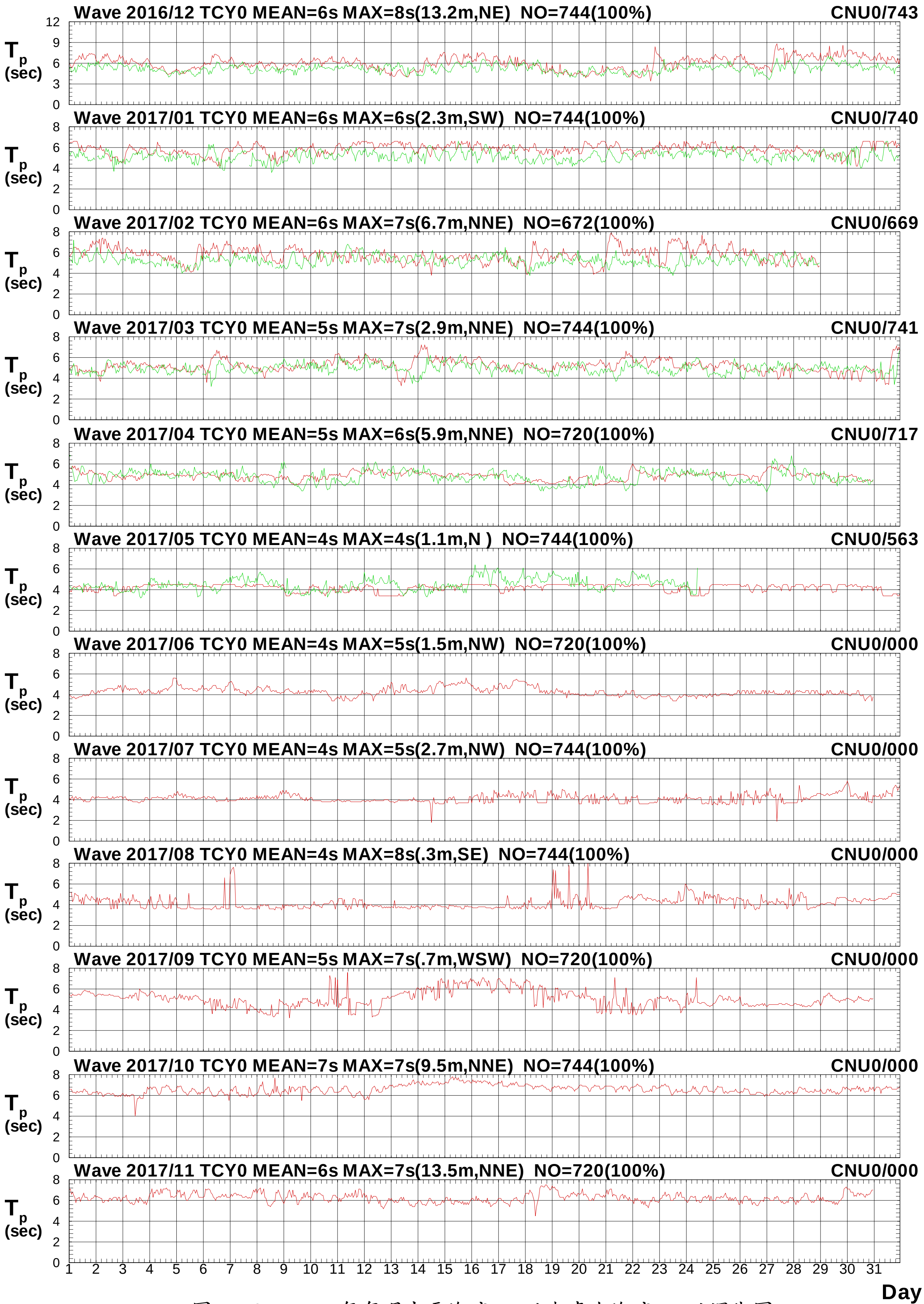

圖2.23b　2017年每月中雲海域 Y 站與嘉南海域 U 站週期圖

V16CTCY0.1HA V16CCNU0.1H0 V171TCY0.1HA V171CNU0.1H0 V172TCY0.1HA V172CNU0.1H0

V173TCY0.1HA V173CNU0.1H0 V174TCY0.1HA V174CNU0.1H0 V175TCY0.1HA V175CNU0.1H0

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Wave Direction in Chung-Yun Seas of TCY0 at 2017

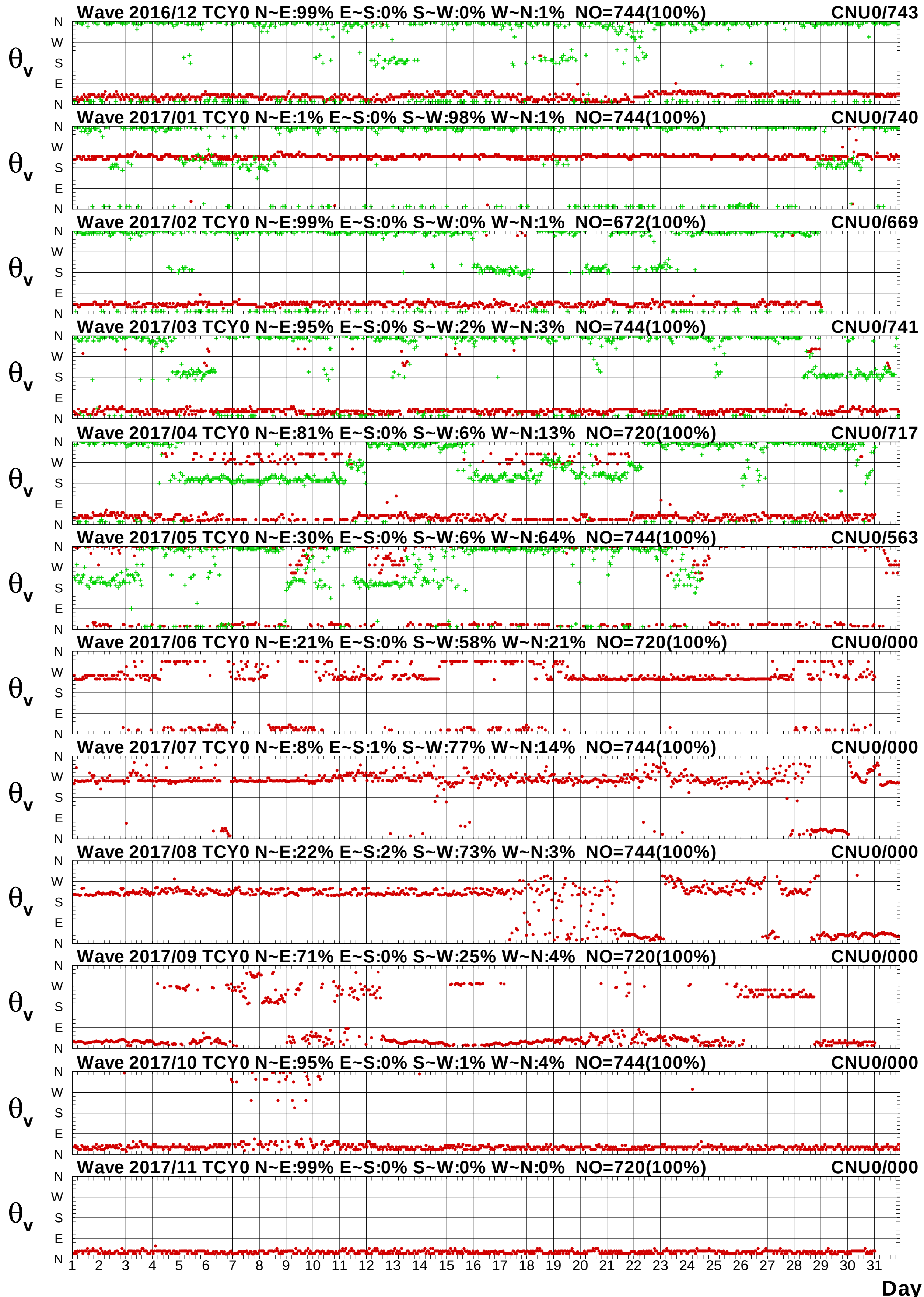

圖2.23c　2017年每月中雲海域 Y 站與嘉南海域 U 站波向圖

V16CTCY0.1HA V16CCNU0.1H0 V171TCY0.1HA V171CNU0.1H0 V172TCY0.1HA V172CNU0.1H0
V173TCY0.1HA V173CNU0.1H0 V174TCY0.1HA V174CNU0.1H0 V175TCY0.1HA V175CNU0.1H0

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Wave H_s in Chung-Yun Seas of TCY0 at 2017

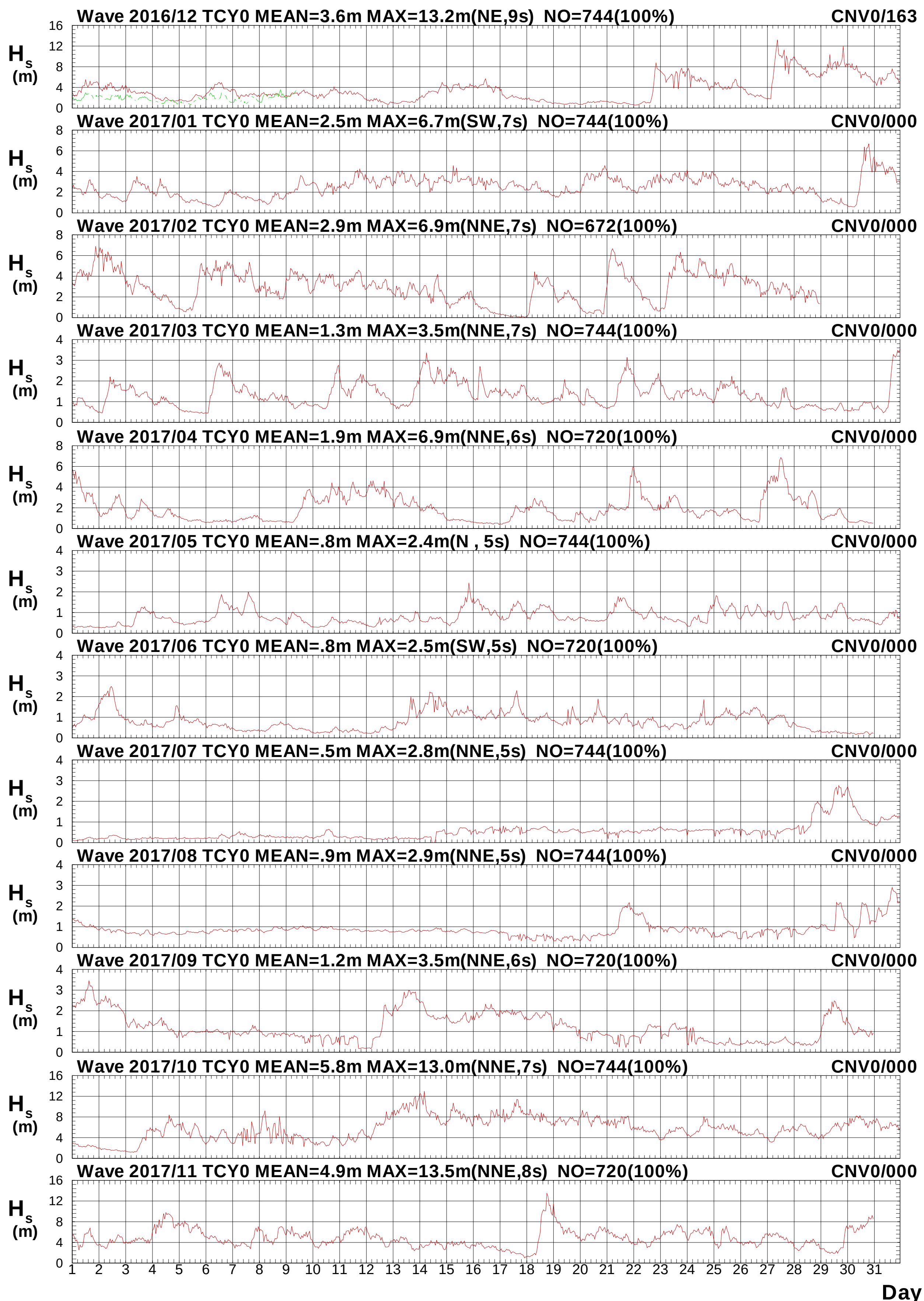

圖2.24a　2017年每月中雲海域 Y 站與嘉南海域 V 站波高圖

V16CTCY0.1HA V16CCNV0.1H0 V171TCY0.1HA V171CNV0.1H0 V172TCY0.1HA V172CNV0.1H0
V173TCY0.1HA V173CNV0.1H0 V174TCY0.1HA V174CNV0.1H0 V175TCY0.1HA V175CNV0.1H0

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Wave T_p in Chung-Yun Seas of TCY0 at 2017

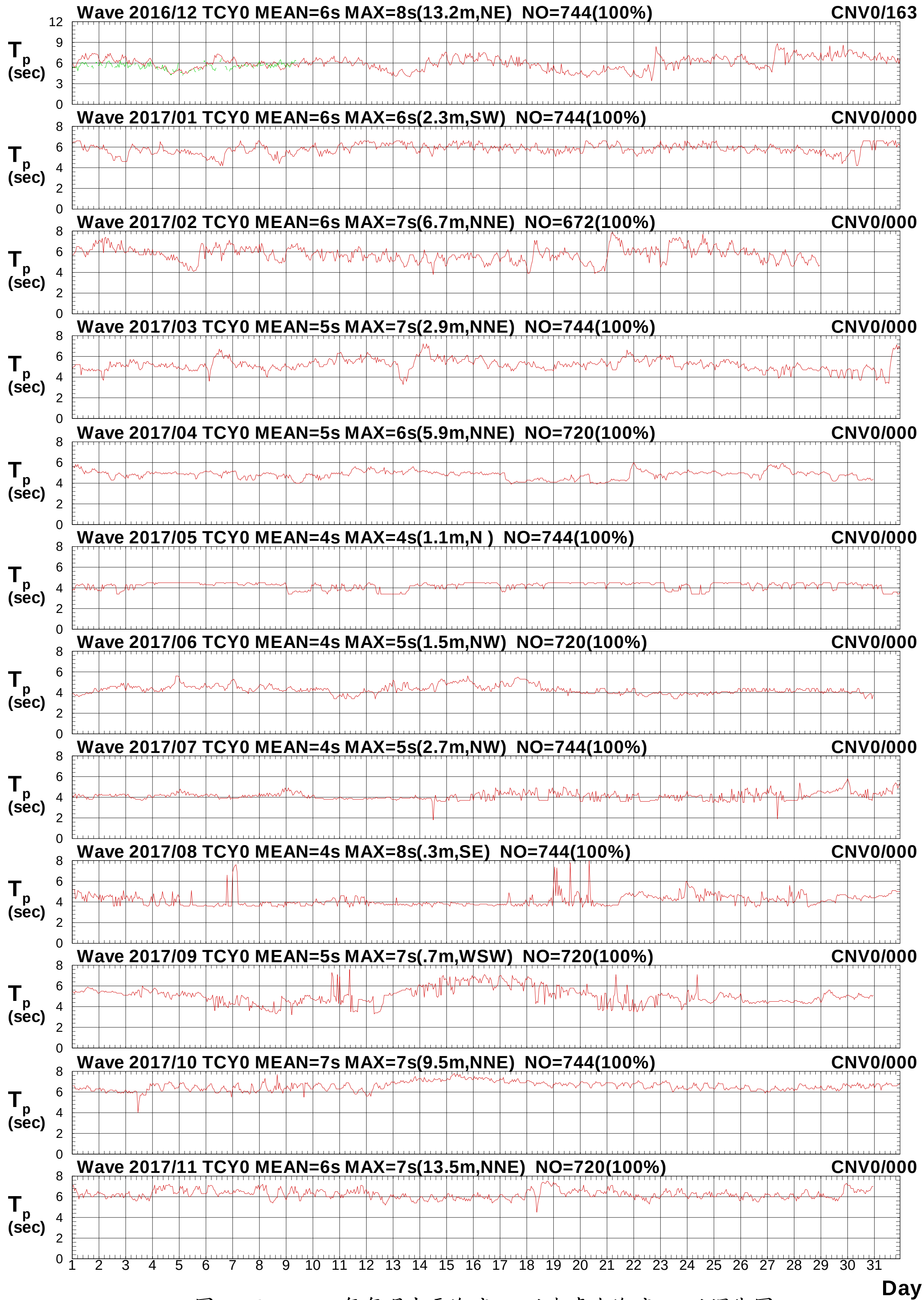

圖2.24b 2017年每月中雲海域 Y 站與嘉南海域 V 站週期圖

V16CTCY0.1HA V16CCNV0.1H0 V171TCY0.1HA V171CNV0.1H0 V172TCY0.1HA V172CNV0.1H0
V173TCY0.1HA V173CNV0.1H0 V174TCY0.1HA V174CNV0.1H0 V175TCY0.1HA V175CNV0.1H0

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Wave Direction in Chung-Yun Seas of TCY0 at 2017

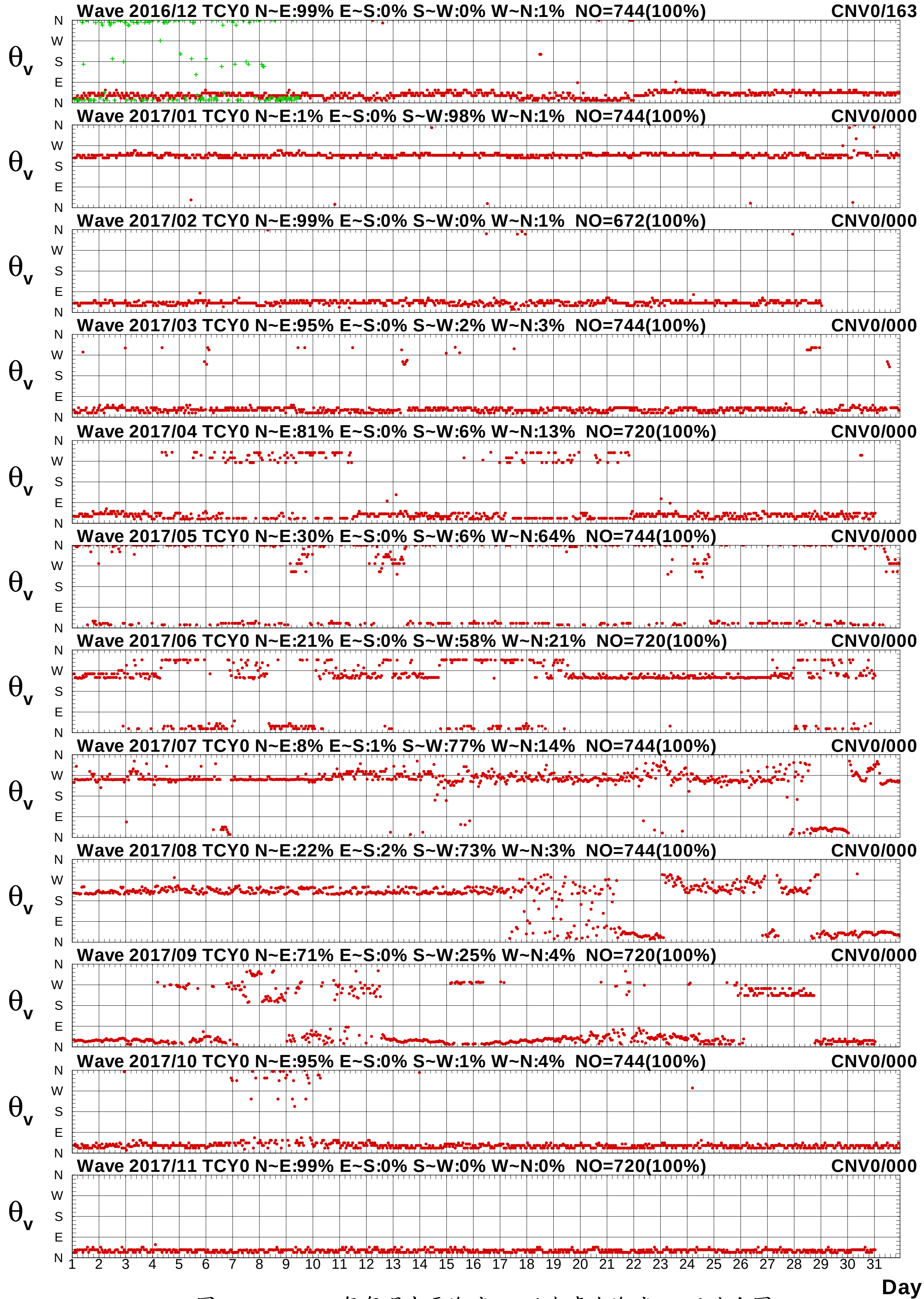

圖2.24c　2017年每月中雲海域 Y 站與嘉南海域 V 站波向圖

V16CTCY0.1HA V16CCNV0.1H0 V171TCY0.1HA V171CNV0.1H0 V172TCY0.1HA V172CNV0.1H0
V173TCY0.1HA V173CNV0.1H0 V174TCY0.1HA V174CNV0.1H0 V175TCY0.1HA V175CNV0.1H0

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Wave H_s in Chung-Yun Seas of TCY0 at 2017

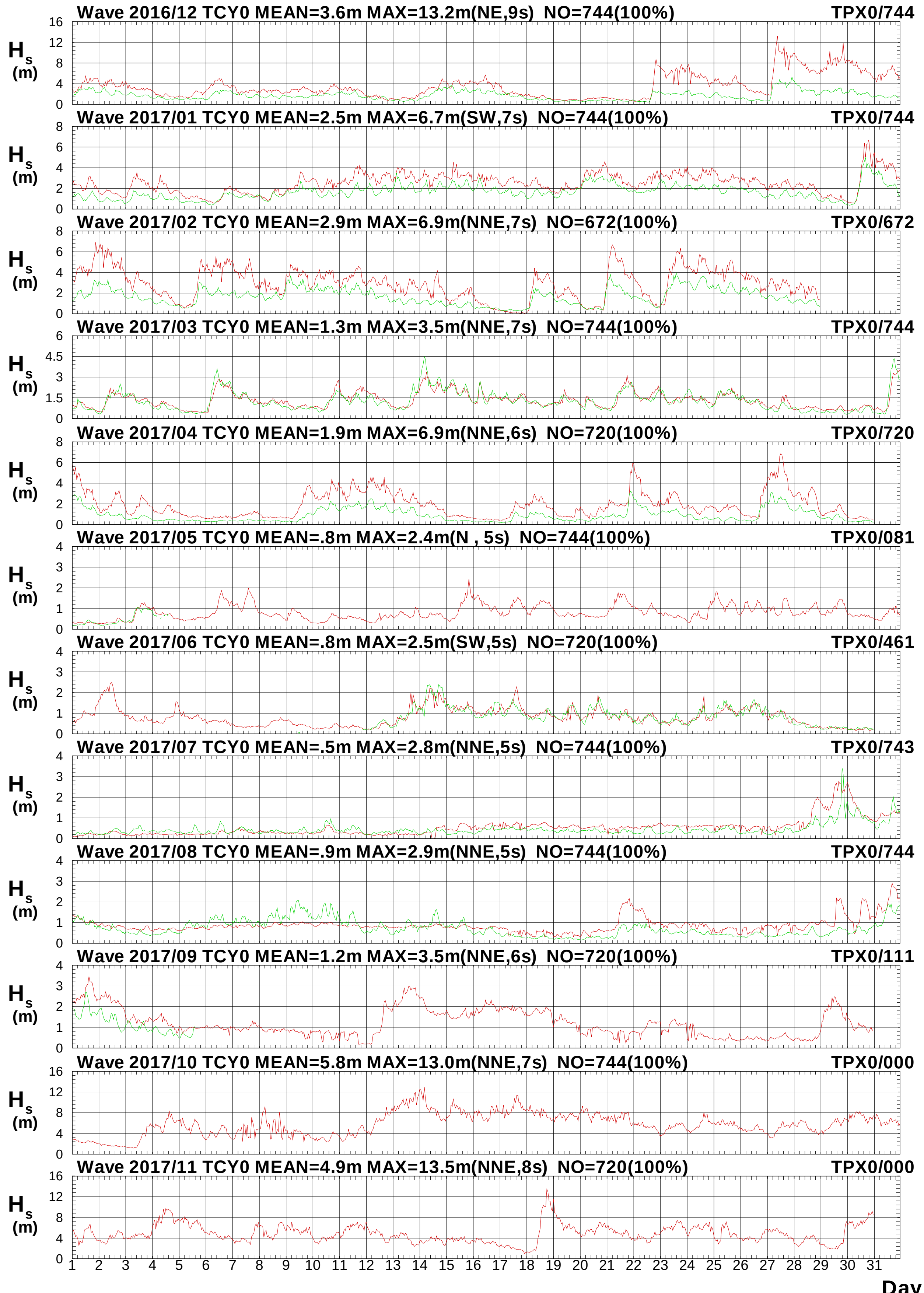

圖2.25a　2017年每月中雲海域 Y 站與北苗海域 X 站波高圖

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

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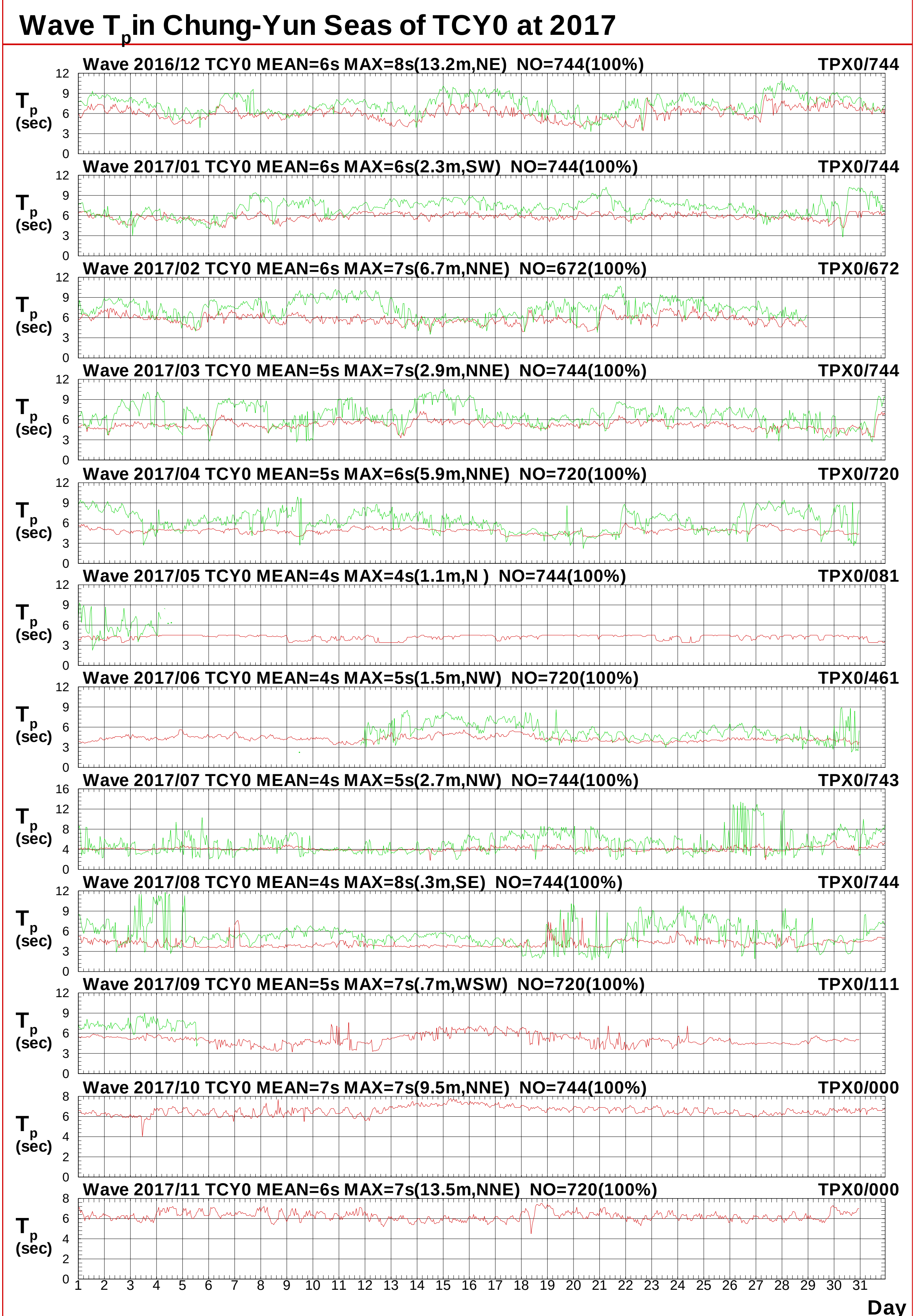

圖2.25b 2017年每月中雲海域 Y 站與北苗海域 X 站週期圖

V16CTCY0.1HA V16CTPX0.1H0 V171TCY0.1HA V171TPX0.1H0 V172TCY0.1HA V172TPX0.1H0 V173TCY0.1HA V173TPX0.1H0 V174TCY0.1HA V174TPX0.1H0 V175TCY0.1HA V175TPX0.1H0	Institute of Harbor & Marine Technology

Wave Direction in Chung-Yun Seas of TCY0 at 2017

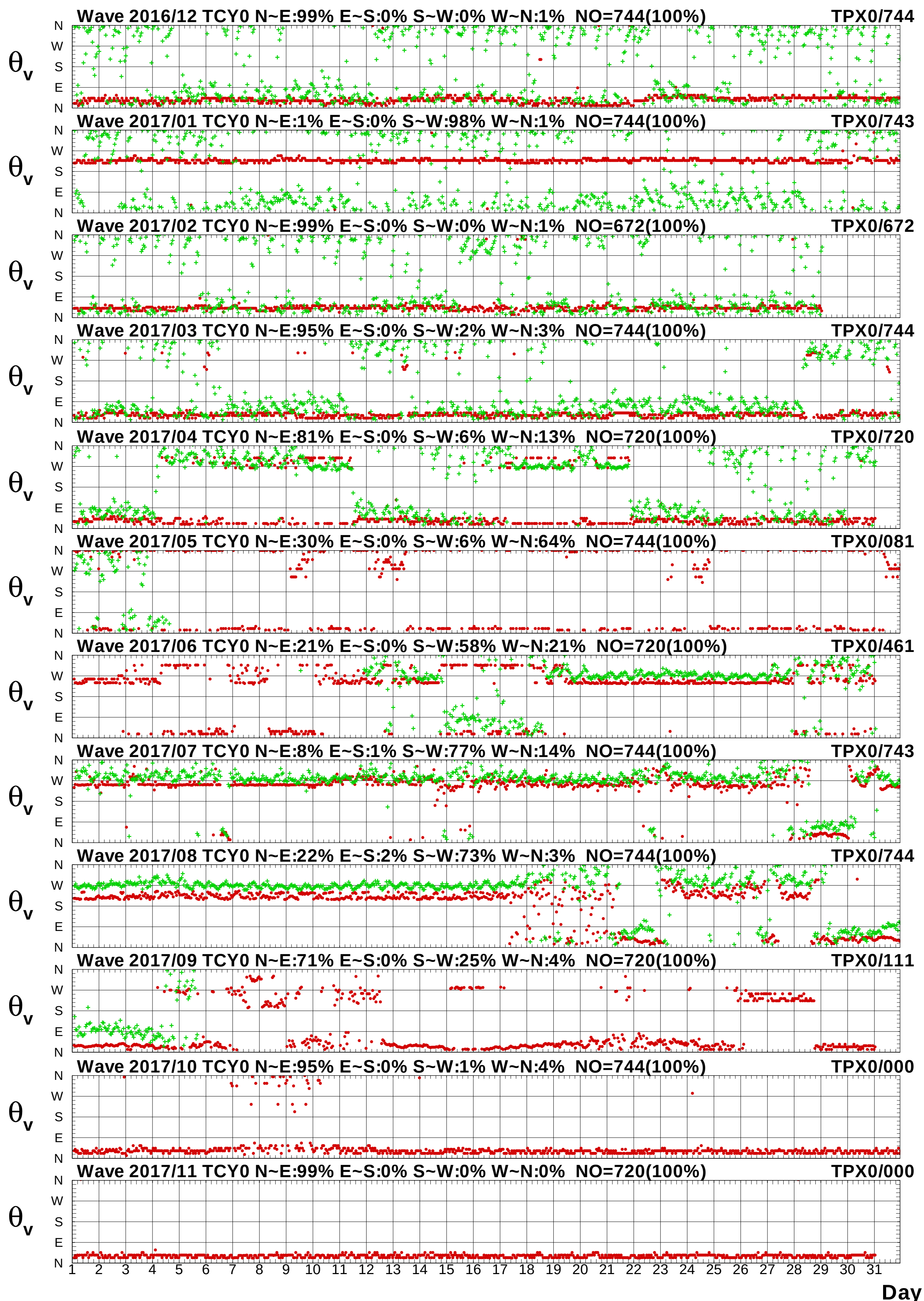

圖2.25c　2017年每月中雲海域 Y 站與北苗海域 X 站波向圖

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

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Wave H_s in Chung-Yun Seas of TCY0 at 2017

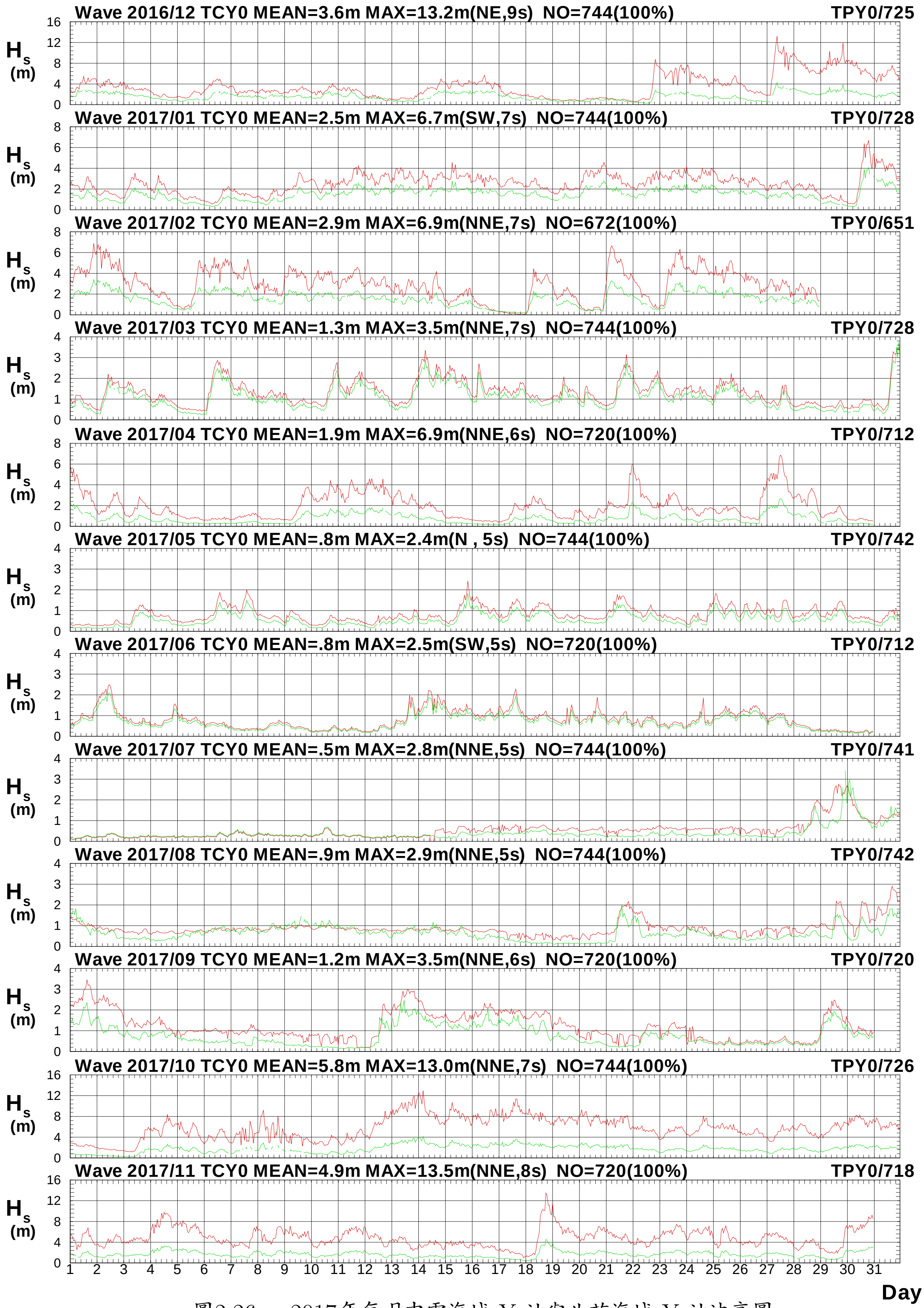

圖2.26a　2017年每月中雲海域 Y 站與北苗海域 Y 站波高圖

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

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Wave T_p in Chung-Yun Seas of TCY0 at 2017

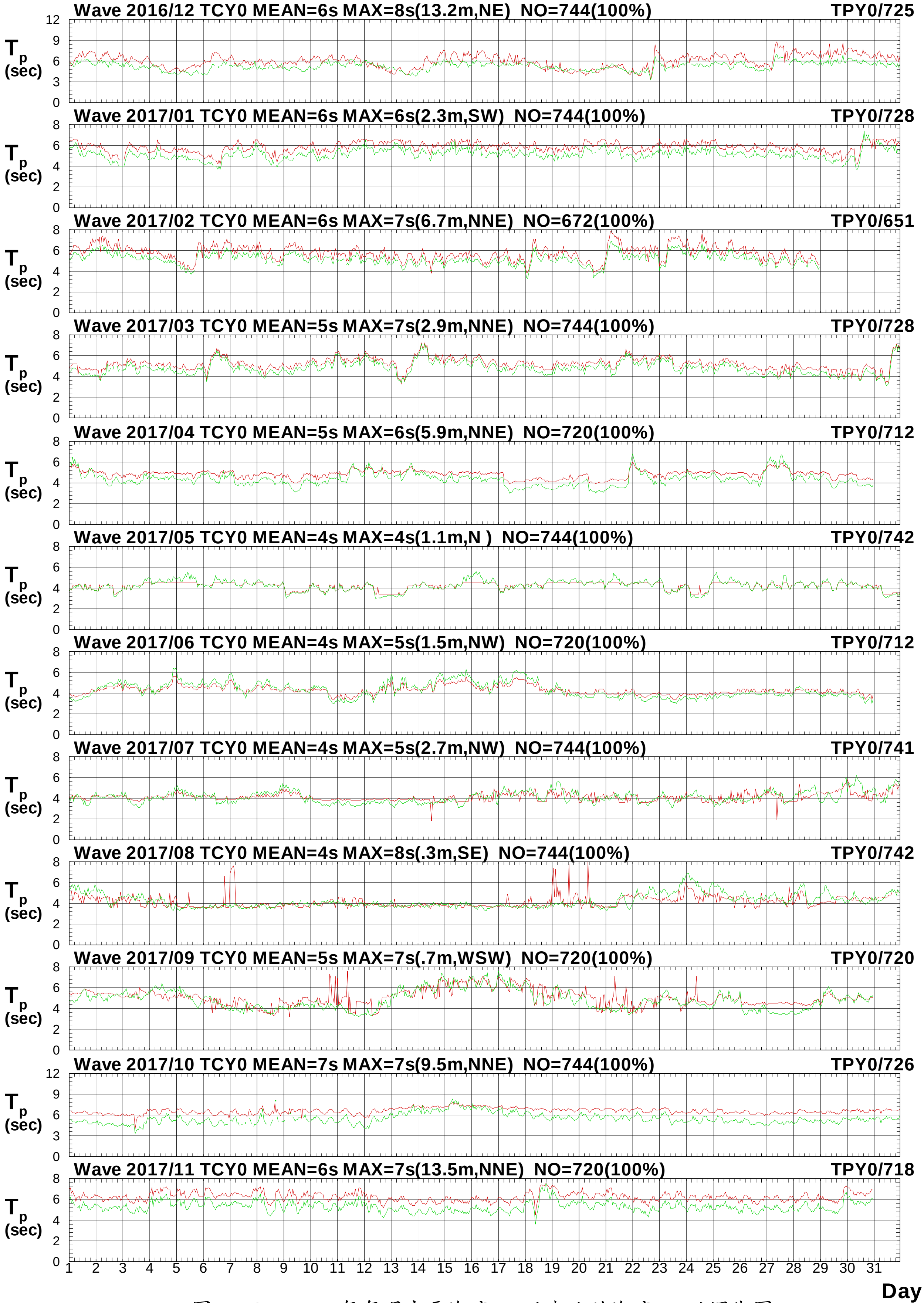

圖2.26b　2017年每月中雲海域 Y 站與北苗海域 Y 站週期圖

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

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Wave Direction in Chung-Yun Seas of TCY0 at 2017

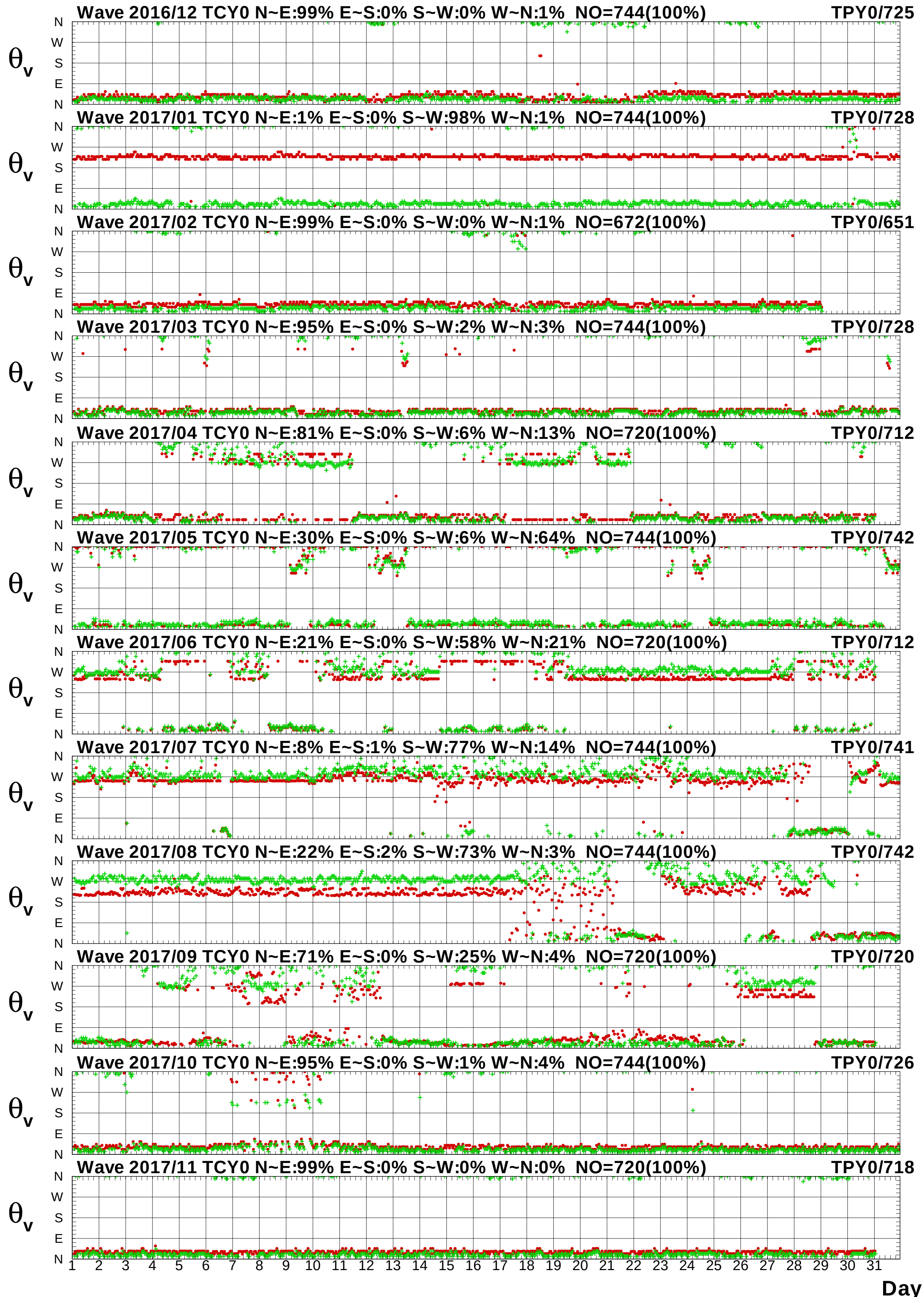

圖2.26c　2017年每月中雲海域 Y 站與北苗海域 Y 站波向圖

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

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第三章　2017 年中雲海域觀測潮汐資料

中雲海域潮汐之觀測包括**測站 T**、**測站 J**、**測站 X**、**測站 K 及測站 P** 等 5 個測站(測站位置如第 O 章圖 TN1)。**測站 T** 與其他 4 個測站特性皆相近。本年報取經檢核及補遺之**測站 T** 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年每月中雲海域修補前各測站觀測潮汐資料紀錄表

海域 年月/測站	中雲海域 T	中雲海域 J	中雲海域 X	中雲海域	中雲海域	中雲海域	中雲海域	中雲海域	中雲海域	中雲海域	中雲海域	中雲海域
2016/12月	744(100%)	705(94.8%)	*	*	*	*	*	*	*	*	*	*
2017/ 1月	744(100%)	701(94.2%)	*	*	*	*	*	*	*	*	*	*
2017/ 2月	672(100%)	643(95.7%)	*	*	*	*	*	*	*	*	*	*
2017/ 3月	744(100%)	695(93.4%)	*	*	*	*	*	*	*	*	*	*
2017/ 4月	720(100%)	691(96.0%)	*	*	*	*	*	*	*	*	*	*
2017/ 5月	744(100%)	701(94.2%)	*	*	*	*	*	*	*	*	*	*
2017/ 6月	720(100%)	699(97.1%)	*	*	*	*	*	*	*	*	*	*
2017/ 7月	744(100%)	712(95.7%)	421(56.6%)	*	*	*	*	*	*	*	*	*
2017/ 8月	744(100%)	744(100%)	743(99.9%)	*	*	*	*	*	*	*	*	*
2017/ 9月	720(100%)	710(98.6%)	549(76.3%)	*	*	*	*	*	*	*	*	*
2017/10月	744(100%)	743(99.9%)	*	*	*	*	*	*	*	*	*	*
2017/11月	720(100%)	712(98.9%)	*	*	*	*	*	*	*	*	*	*
2017/冬季	2160(100%)	2049(94.9%)	*	*	*	*	*	*	*	*	*	*
2017/春季	2208(100%)	2087(94.5%)	*	*	*	*	*	*	*	*	*	*
2017/夏季	2208(100%)	2155(97.6%)	1164(52.7%)	*	*	*	*	*	*	*	*	*
2017/秋季	2184(100%)	2165(99.1%)	549(25.1%)	*	*	*	*	*	*	*	*	*
2017/整年	8760(100%)	8456(96.5%)	1713(19.6%)	*	*	*	*	*	*	*	*	*
起始年月	2016/12	2016/12	2017/07	*	*	*	*	*	*	*	*	*
結束年月	2017/11	2017/11	2017/09	*	*	*	*	*	*	*	*	*

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表3.1b 2017年每月中雲海域修補後各測站潮汐資料紀錄表

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

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表3.2a　2017年中雲海域 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	393	531	474	510	12.4	14.0	13.1	13.2	59	246	518	-24	744(100%)
2	2017/01	T	396	504	471	497	12.4	13.0	13.0	13.0	59	235	496	-24	744(100%)
3	2017/02	T	387	507	471	501	12.4	13.0	13.0	13.0	53	237	489	-31	672(100%)
4	2017/03	T	397	517	481	505	12.4	13.0	13.0	13.0	59	255	532	-15	744(100%)
5	2017/04	T	388	536	469	513	12.4	13.0	13.0	13.0	57	270	528	-11	720(100%)
6	2017/05	T	377	513	450	503	12.4	14.0	13.1	13.2	59	275	522	9	744(100%)
7	2017/06	T	379	510	444	500	12.4	13.0	13.0	13.0	57	294	533	21	720(100%)
8	2017/07	T	381	519	450	508	12.4	13.0	13.0	13.0	59	304	546	26	744(100%)
9	2017/08	T	383	538	462	512	12.4	13.0	13.0	13.0	59	306	575	28	744(100%)
10	2017/09	T	386	481	460	476	12.4	13.0	13.0	13.0	57	302	540	40	720(100%)
11	2017/10	T	395	534	487	512	12.4	13.0	13.0	13.0	59	287	560	26	744(100%)
12	2017/11	T	402	541	481	516	12.4	13.0	13.0	13.0	57	251	532	-13	720(100%)
13	2017/冬	T	392	531	471	502	12.4	14.0	13.0	13.1	171	239	518	-31	2160(100%)
14	2017/春	T	387	536	469	506	12.4	14.0	13.0	13.1	175	267	532	-15	2208(100%)
15	2017/夏	T	381	538	452	502	12.4	13.0	13.0	13.0	175	301	575	21	2208(100%)
16	2017/秋	T	394	541	477	504	12.4	13.0	13.0	13.0	173	280	560	-13	2184(100%)
17	2017/年	T	389	541	468	504	12.4	14.0	13.0	13.0	694	272	575	-31	8760(100%)

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表3.2b　2017年中雲海域 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	393	531	474	510	12.4	14.0	13.1	13.2	59	246	518	-24	744(100%)
2	2017/01	T	396	504	471	497	12.4	13.0	13.0	13.0	59	235	496	-24	744(100%)
3	2017/02	T	387	507	471	501	12.4	13.0	13.0	13.0	53	237	489	-31	672(100%)
4	2017/03	T	397	517	481	505	12.4	13.0	13.0	13.0	59	255	532	-15	744(100%)
5	2017/04	T	388	536	469	513	12.4	13.0	13.0	13.0	57	270	528	-11	720(100%)
6	2017/05	T	377	513	450	503	12.4	14.0	13.1	13.2	59	275	522	9	744(100%)
7	2017/06	T	379	510	444	500	12.4	13.0	13.0	13.0	57	294	533	21	720(100%)
8	2017/07	T	381	519	450	508	12.4	13.0	13.0	13.0	59	304	546	26	744(100%)
9	2017/08	T	383	538	462	512	12.4	13.0	13.0	13.0	59	306	575	28	744(100%)
10	2017/09	T	386	481	460	476	12.4	13.0	13.0	13.0	57	302	540	40	720(100%)
11	2017/10	T	395	534	487	512	12.4	13.0	13.0	13.0	59	287	560	26	744(100%)
12	2017/11	T	402	541	481	516	12.4	13.0	13.0	13.0	57	251	532	-13	720(100%)
13	2017/冬	T	392	531	471	502	12.4	14.0	13.0	13.1	171	239	518	-31	2160(100%)
14	2017/春	T	387	536	469	506	12.4	14.0	13.0	13.1	175	267	532	-15	2208(100%)
15	2017/夏	T	381	538	452	502	12.4	13.0	13.0	13.0	175	301	575	21	2208(100%)
16	2017/秋	T	394	541	477	504	12.4	13.0	13.0	13.0	173	280	560	-13	2184(100%)
17	2017/年	T	389	541	468	504	12.4	14.0	13.0	13.0	694	272	575	-31	8760(100%)

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表3.3a　2017年中雲海域 J 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	J	279	396	340	382	15.1	25.0	20.9	25.0	46	21	228	-195	705(95%)
2	2017/01	J	280	401	352	388	15.3	25.0	21.7	25.0	38	13	207	-195	701(94%)
3	2017/02	J	278	381	339	376	15.4	26.0	21.8	25.3	37	19	209	-187	643(96%)
4	2017/03	J	271	355	324	349	15.5	26.0	22.1	25.5	40	27	227	-158	695(93%)
5	2017/04	J	266	381	322	357	14.3	26.0	18.7	25.3	47	29	221	-184	691(96%)
6	2017/05	J	263	384	312	354	14.6	25.0	19.3	25.0	45	27	207	-181	701(94%)
7	2017/06	J	272	379	326	369	13.2	25.0	15.1	20.2	51	39	215	-179	699(97%)
8	2017/07	J	272	359	326	351	13.9	25.0	17.7	25.0	41	43	223	-170	712(96%)
9	2017/08	J	270	387	329	368	12.4	14.0	13.2	13.8	59	46	250	-152	744(100%)
10	2017/09	J	275	345	322	340	12.9	25.0	14.4	17.6	52	46	217	-135	710(99%)
11	2017/10	J	281	369	343	358	12.4	13.0	13.0	13.0	59	47	238	-134	743(100%)
12	2017/11	J	285	402	346	382	12.6	25.0	13.7	15.4	56	34	245	-170	712(99%)
13	2017/冬	J	279	401	343	380	15.3	26.0	21.2	25.1	121	18	228	-195	2049(95%)
14	2017/春	J	267	384	319	352	14.8	26.0	19.8	25.2	132	28	227	-184	2087(95%)
15	2017/夏	J	271	387	327	362	13.1	25.0	15.0	19.7	151	43	250	-179	2155(98%)
16	2017/秋	J	281	402	338	361	12.6	25.0	13.6	15.2	167	42	245	-170	2165(99%)
17	2017/年	J	275	402	332	365	13.8	26.0	17.0	24.9	571	33	250	-195	8456(97%)

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表3.3b　2017年中雲海域 J 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	J	283	422	347	398	12.6	25.0	13.7	15.6	58	22	228	-195	744(100%)
2	2017/01	J	286	379	343	370	12.4	14.0	13.1	13.4	59	14	207	-195	744(100%)
3	2017/02	J	280	397	349	381	12.4	14.0	13.1	13.2	53	20	215	-187	672(100%)
4	2017/03	J	284	416	344	376	12.6	25.0	13.8	16.0	58	26	227	-205	744(100%)
5	2017/04	J	273	398	332	375	12.4	14.0	13.1	13.2	57	30	221	-184	720(100%)
6	2017/05	J	269	389	326	382	12.4	14.0	13.2	13.6	59	28	207	-182	744(100%)
7	2017/06	J	269	391	326	381	12.4	14.0	13.1	13.2	57	39	215	-179	720(100%)
8	2017/07	J	273	388	328	368	12.8	25.0	14.3	18.0	57	42	223	-170	744(100%)
9	2017/08	J	270	387	329	368	12.4	14.0	13.2	13.8	59	46	250	-152	744(100%)
10	2017/09	J	273	342	323	337	12.4	13.0	13.0	13.0	57	46	217	-137	720(100%)
11	2017/10	J	281	369	343	358	12.4	13.0	13.0	13.0	59	47	238	-134	744(100%)
12	2017/11	J	286	398	344	378	12.4	13.0	13.0	13.0	57	35	245	-170	720(100%)
13	2017/冬	J	283	422	346	381	12.5	25.0	13.3	13.9	170	18	228	-195	2160(100%)
14	2017/春	J	275	416	336	374	12.5	25.0	13.3	14.1	174	28	227	-205	2208(100%)
15	2017/夏	J	270	391	328	369	12.6	25.0	13.5	14.8	173	43	250	-179	2208(100%)
16	2017/秋	J	280	398	338	359	12.4	13.0	13.0	13.0	173	43	245	-170	2184(100%)
17	2017/年	J	277	422	337	371	12.5	25.0	13.3	13.9	690	33	250	-205	8760(100%)

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表3.4a　2017年中雲海域 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	P	347	414	382	414	19.7	26.0	25.2	26.0	19	-319	-69	-488	664(89%)
2	2017/01	P	350	394	377	388	16.1	26.0	24.6	25.5	23	-328	-92	-490	523(70%)
3	2017/02	P	337	378	364	375	18.5	26.0	25.3	26.0	23	-320	-92	-488	613(91%)
4	2017/03	P	333	397	378	393	17.0	27.0	25.4	26.5	22	-315	-66	-484	642(86%)
5	2017/04	P	336	370	365	370	17.5	26.0	25.2	26.0	15	-316	-75	-485	544(76%)
6	2017/05	P	320	346	342	346	17.4	25.0	25.0	25.0	20	-317	-89	-486	664(89%)
7	2017/06	P	345	393	386	393	16.1	25.0	25.0	25.0	17	-306	-89	-488	351(49%)
8	2017/07	P	338	404	381	400	13.5	25.0	15.9	24.8	48	-313	-79	-495	681(92%)
9	2017/08	P	317	375	362	375	12.2	13.0	12.8	13.0	18	-301	-52	-495	417(56%)
10	2017/09	P	350	401	389	398	13.5	26.0	16.1	25.5	24	-310	-86	-493	447(62%)
11	2017/10	P	351	420	404	418	14.3	25.0	18.3	25.0	33	-307	-61	-490	579(78%)
12	2017/11	P	355	423	396	415	14.1	26.0	18.6	25.3	44	-323	-61	-485	621(86%)
13	2017/冬	P	344	414	374	393	18.0	26.0	25.2	25.7	65	-322	-69	-490	1800(83%)
14	2017/春	P	329	397	367	381	17.3	27.0	25.2	26.0	57	-316	-66	-486	1850(84%)
15	2017/夏	P	335	404	380	397	13.7	25.0	17.0	25.0	83	-308	-52	-495	1449(66%)
16	2017/秋	P	352	423	397	413	14.0	26.0	17.9	25.2	101	-314	-61	-493	1647(75%)
17	2017/年	P	342	423	383	403	15.4	27.0	21.6	25.4	306	-315	-52	-495	6746(77%)

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表3.4b 2017年中雲海域 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	P	338	415	378	404	12.8	25.0	14.6	18.2	57	-326	-69	-527	744(100%)
2	2017/01	P	349	479	407	457	13.6	26.0	16.5	25.0	54	-334	-90	-598	744(100%)
3	2017/02	P	321	386	367	379	13.6	25.0	16.4	25.0	44	-326	-92	-532	672(100%)
4	2017/03	P	337	420	385	402	14.1	27.0	18.3	25.4	52	-320	-36	-553	744(100%)
5	2017/04	P	345	517	409	463	12.6	25.0	13.7	15.6	56	-320	-75	-597	720(100%)
6	2017/05	P	331	397	371	391	12.6	25.0	13.7	15.6	58	-322	-89	-526	744(100%)
7	2017/06	P	357	508	416	474	12.6	25.0	13.7	15.4	56	-301	12	-557	720(100%)
8	2017/07	P	343	481	390	423	12.4	13.0	13.0	13.0	59	-312	-79	-570	744(100%)
9	2017/08	P	361	505	433	475	12.4	14.0	13.1	13.2	59	-300	3	-565	744(100%)
10	2017/09	P	360	497	430	475	12.9	26.0	14.5	18.4	55	-312	-23	-603	720(100%)
11	2017/10	P	360	502	439	490	12.4	14.0	13.1	13.2	59	-305	1	-565	744(100%)
12	2017/11	P	351	443	401	426	12.9	25.0	14.7	18.4	55	-325	-41	-554	720(100%)
13	2017/冬	P													
14	2017/春	P													
15	2017/夏	P													
16	2017/秋	P													
17	2017/年	P													

DIST3A.BAT 測站編號:TCP

表3.5a　2017年中雲海域 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													
2	2017/01	X													
3	2017/02	X													
4	2017/03	X													
5	2017/04	X													
6	2017/05	X													
7	2017/06	X													
8	2017/07	X	403	530	474	527	12.4	13.0	13.0	13.0	33	2823	3085	30	421(57%)
9	2017/08	X	382	535	463	512	12.4	13.0	13.0	13.0	59	2845	3103	2569	743(100%)
10	2017/09	X	407	486	466	480	12.7	25.0	13.9	16.0	44	2848	3084	2593	549(76%)
11	2017/10	X													
12	2017/11	X													
13	2017/冬	X													
14	2017/春	X													
15	2017/夏	X	390	535	467	517	12.4	13.0	13.0	13.0	92	2837	3103	30	1164(53%)
16	2017/秋	X	407	486	466	480	12.7	25.0	13.9	16.0	44	2848	3084	2593	549(25%)
17	2017/年	X	395	535	468	506	12.5	25.0	13.3	13.9	136	2841	3103	30	1713(20%)

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表3.5b　2017年中雲海域 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	393	531	474	510	12.4	14.0	13.1	13.2	59	246	518	-24	744(100%)
2	2017/01	X	396	504	471	497	12.4	13.0	13.0	13.0	59	235	496	-24	744(100%)
3	2017/02	X	387	507	471	501	12.4	13.0	13.0	13.0	53	237	489	-31	672(100%)
4	2017/03	X	397	517	481	505	12.4	13.0	13.0	13.0	59	255	532	-15	744(100%)
5	2017/04	X	388	536	469	513	12.4	13.0	13.0	13.0	57	270	528	-11	720(100%)
6	2017/05	X	377	513	450	503	12.4	14.0	13.1	13.2	59	275	522	9	744(100%)
7	2017/06	X	379	510	444	500	12.4	13.0	13.0	13.0	57	294	533	21	720(100%)
8	2017/07	X	381	530	452	515	12.4	13.0	13.0	13.0	59	1617	3085	-194	744(100%)
9	2017/08	X	382	535	463	512	12.4	13.0	13.0	13.0	59	2845	3103	2569	744(100%)
10	2017/09	X	386	486	460	478	12.4	13.0	13.0	13.0	57	2853	3084	2593	720(100%)
11	2017/10	X	395	534	487	512	12.4	13.0	13.0	13.0	59	287	560	26	744(100%)
12	2017/11	X	402	541	481	516	12.4	13.0	13.0	13.0	57	251	532	-13	720(100%)
13	2017/冬	X	392	531	471	502	12.4	14.0	13.0	13.1	171	239	518	-31	2160(100%)
14	2017/春	X	387	536	469	506	12.4	14.0	13.0	13.1	175	267	532	-15	2208(100%)
15	2017/夏	X	381	535	452	504	12.4	13.0	13.0	13.0	175	1600	3103	-194	2208(100%)
16	2017/秋	X	394	541	477	504	12.4	13.0	13.0	13.0	173	1121	3084	-13	2184(100%)
17	2017/年	X	389	541	469	504	12.4	14.0	13.0	13.0	694	809	3103	-194	8760(100%)

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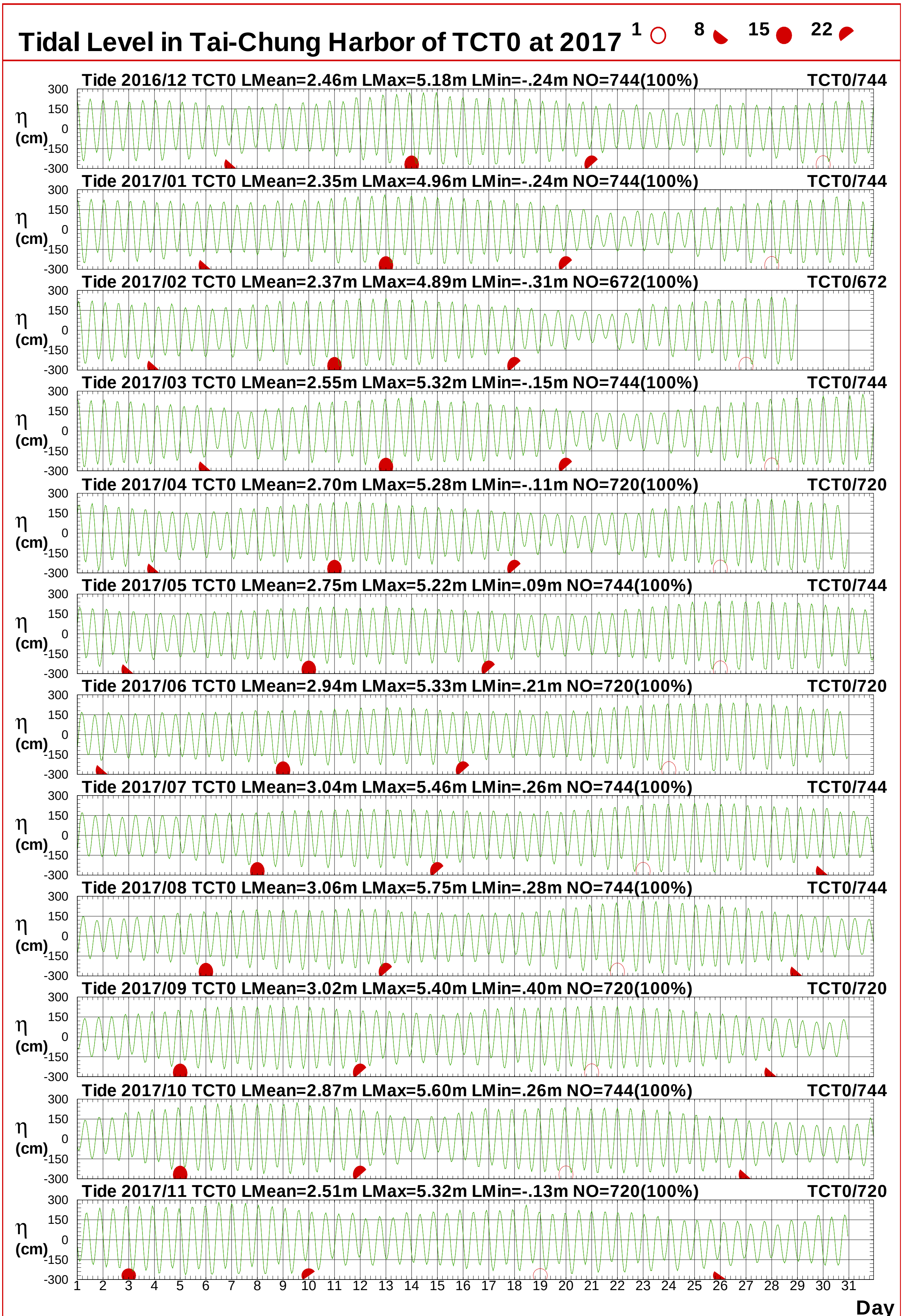

圖3.1　2017年每月中雲海域 T 站修補前後之潮位比較圖

T16CTCT0.1HA T16CTCT0.1H0 T171TCT0.1HA T171TCT0.1H0 T172TCT0.1HA T172TCT0.1H0
T173TCT0.1HA T173TCT0.1H0 T174TCT0.1HA T174TCT0.1H0 T175TCT0.1HA T175TCT0.1H0

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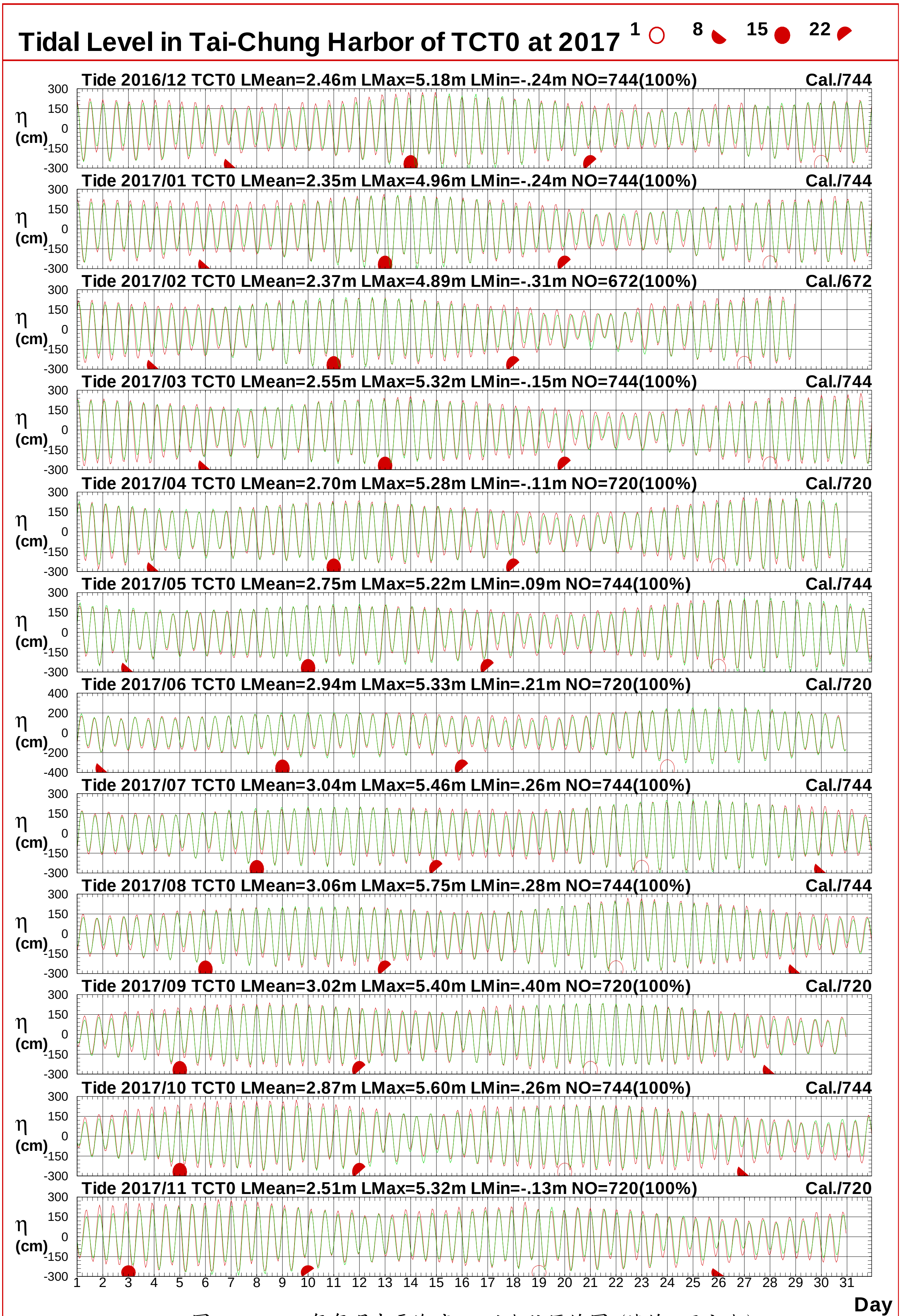

圖3.2 2017年每月中雲海域 T 站潮位歷線圖 (綠線: 天文潮)

T16CTCT0.1HA T16CTCT0.1HC T171TCT0.1HA T171TCT0.1HC T172TCT0.1HA T172TCT0.1HC

T173TCT0.1HA T173TCT0.1HC T174TCT0.1HA T174TCT0.1HC T175TCT0.1HA T175TCT0.1HC

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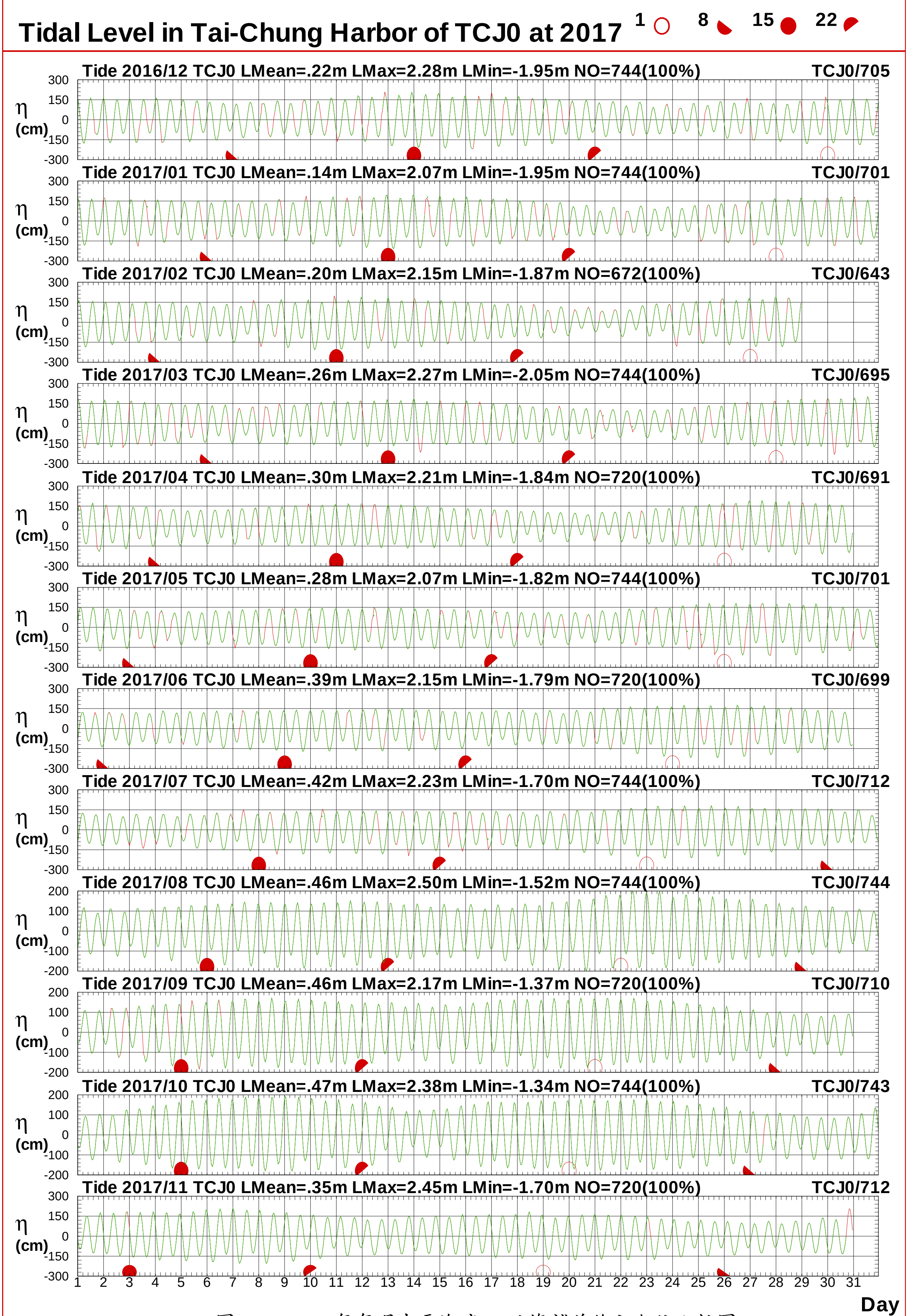

圖3.3　2017年每月中雲海域 J 站修補前後之潮位比較圖

T16CTCJ0.1HA T16CTCJ0.1H0 T171TCJ0.1HA T171TCJ0.1H0 T172TCJ0.1HA T172TCJ0.1H0
T173TCJ0.1HA T173TCJ0.1H0 T174TCJ0.1HA T174TCJ0.1H0 T175TCJ0.1HA T175TCJ0.1H0

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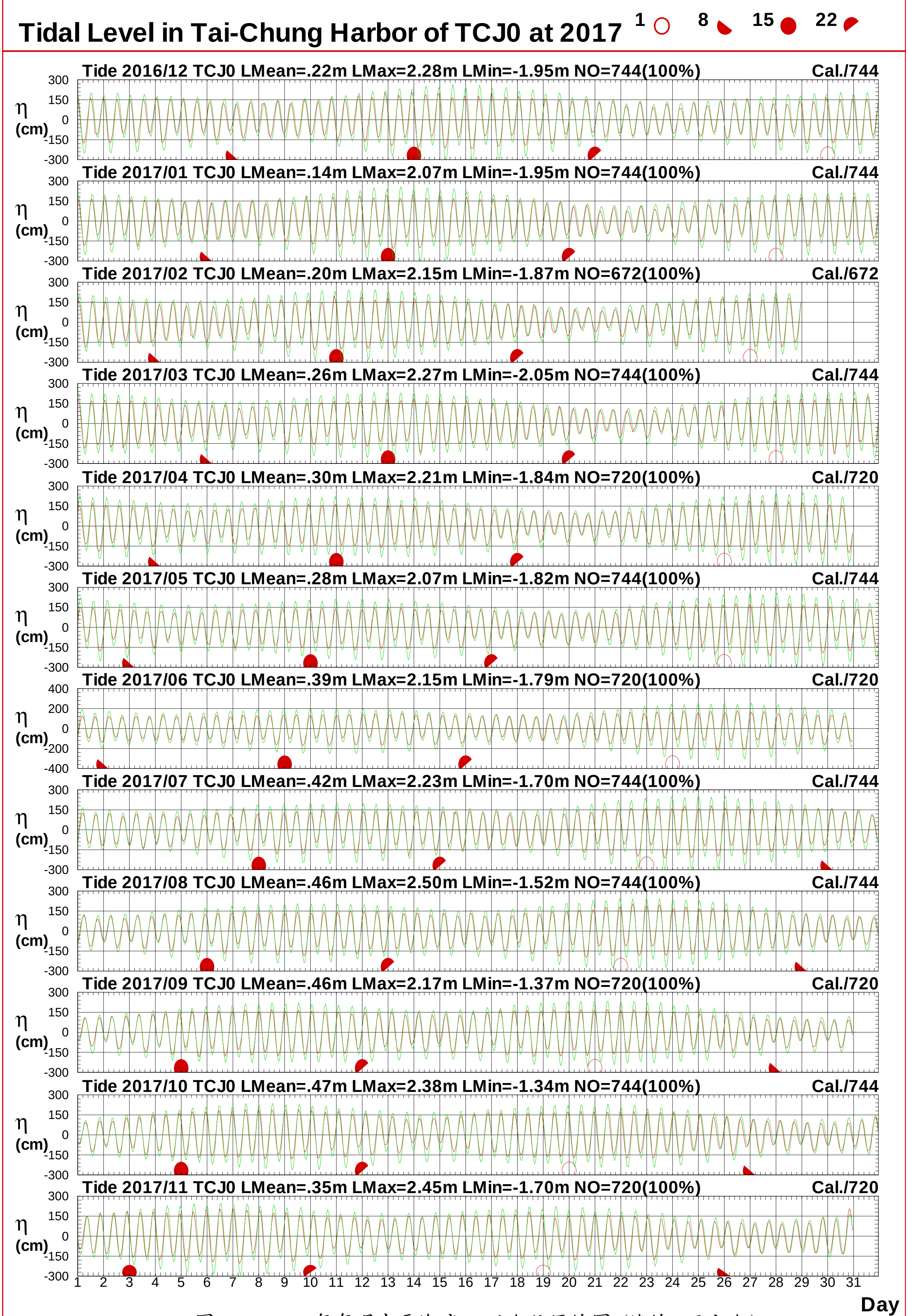

圖3.4 2017年每月中雲海域 J 站潮位歷線圖 (綠線: 天文潮)

T16CTCJ0.1HA T16CTCT0.1HC T171TCJ0.1HA T171TCT0.1HC T172TCJ0.1HA T172TCT0.1HC T173TCJ0.1HA T173TCT0.1HC T174TCJ0.1HA T174TCT0.1HC T175TCJ0.1HA T175TCT0.1HC	Institute of Harbor & Marine Technology

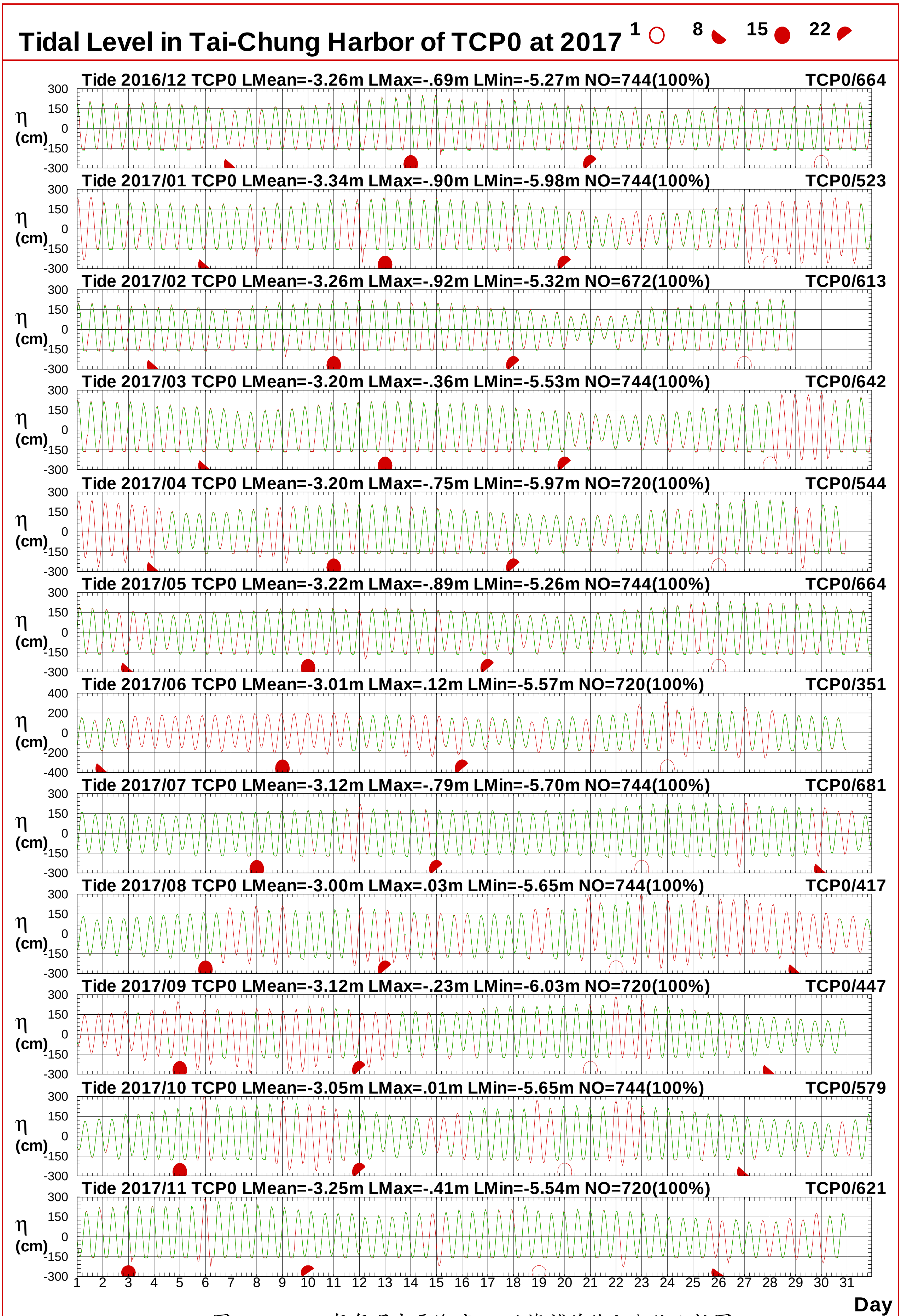

圖3.5　2017年每月中雲海域 P 站修補前後之潮位比較圖

T16CTCP0.1HA T16CTCP0.1H0 T171TCP0.1HA T171TCP0.1H0 T172TCP0.1HA T172TCP0.1H0

T173TCP0.1HA T173TCP0.1H0 T174TCP0.1HA T174TCP0.1H0 T175TCP0.1HA T175TCP0.1H0

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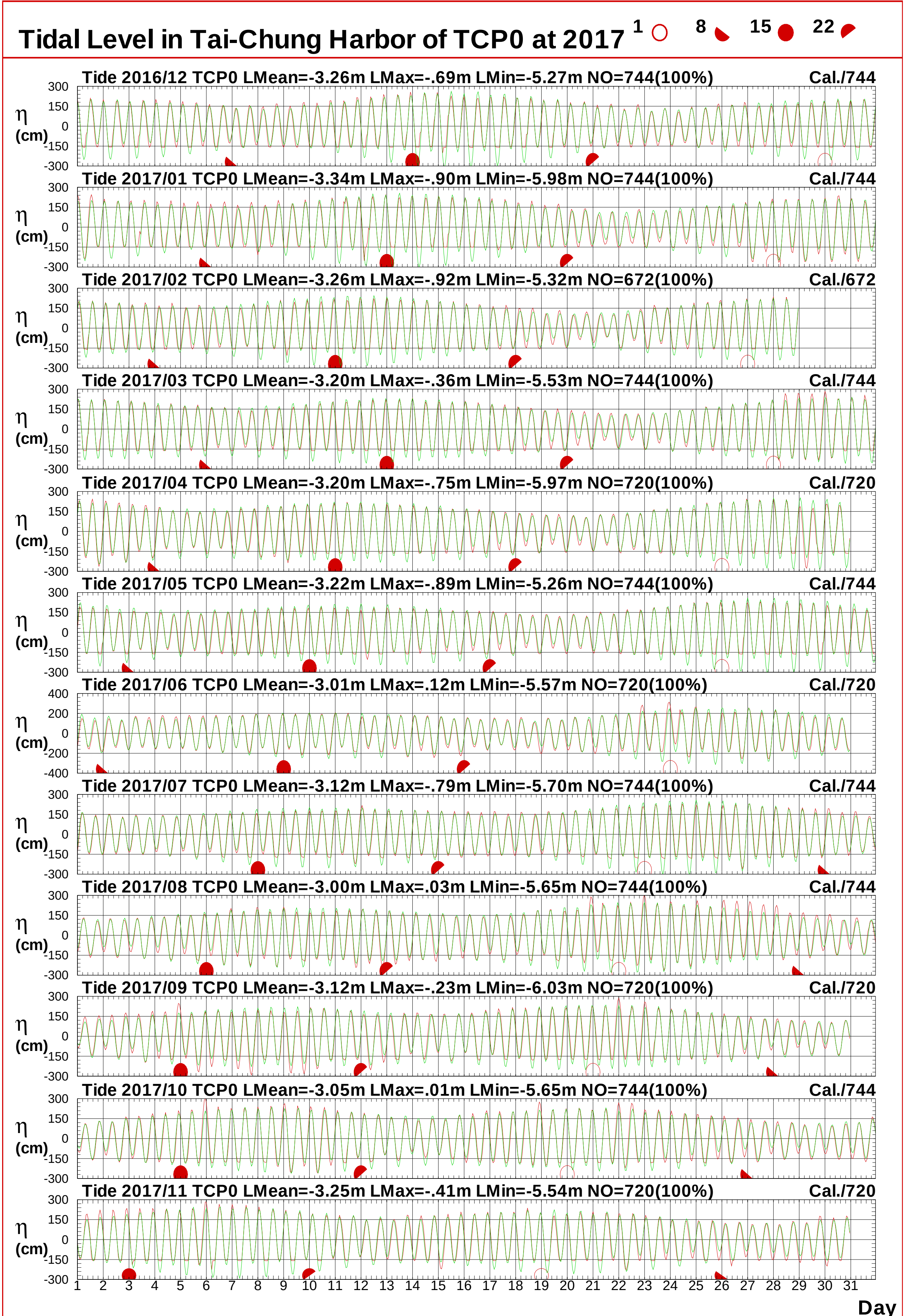

圖3.6　2017年每月中雲海域 P 站潮位歷線圖 (綠線: 天文潮)

T16CTCP0.1HA T16CTCT0.1HC T171TCP0.1HA T171TCT0.1HC T172TCP0.1HA T172TCT0.1HC
T173TCP0.1HA T173TCT0.1HC T174TCP0.1HA T174TCT0.1HC T175TCP0.1HA T175TCT0.1HC

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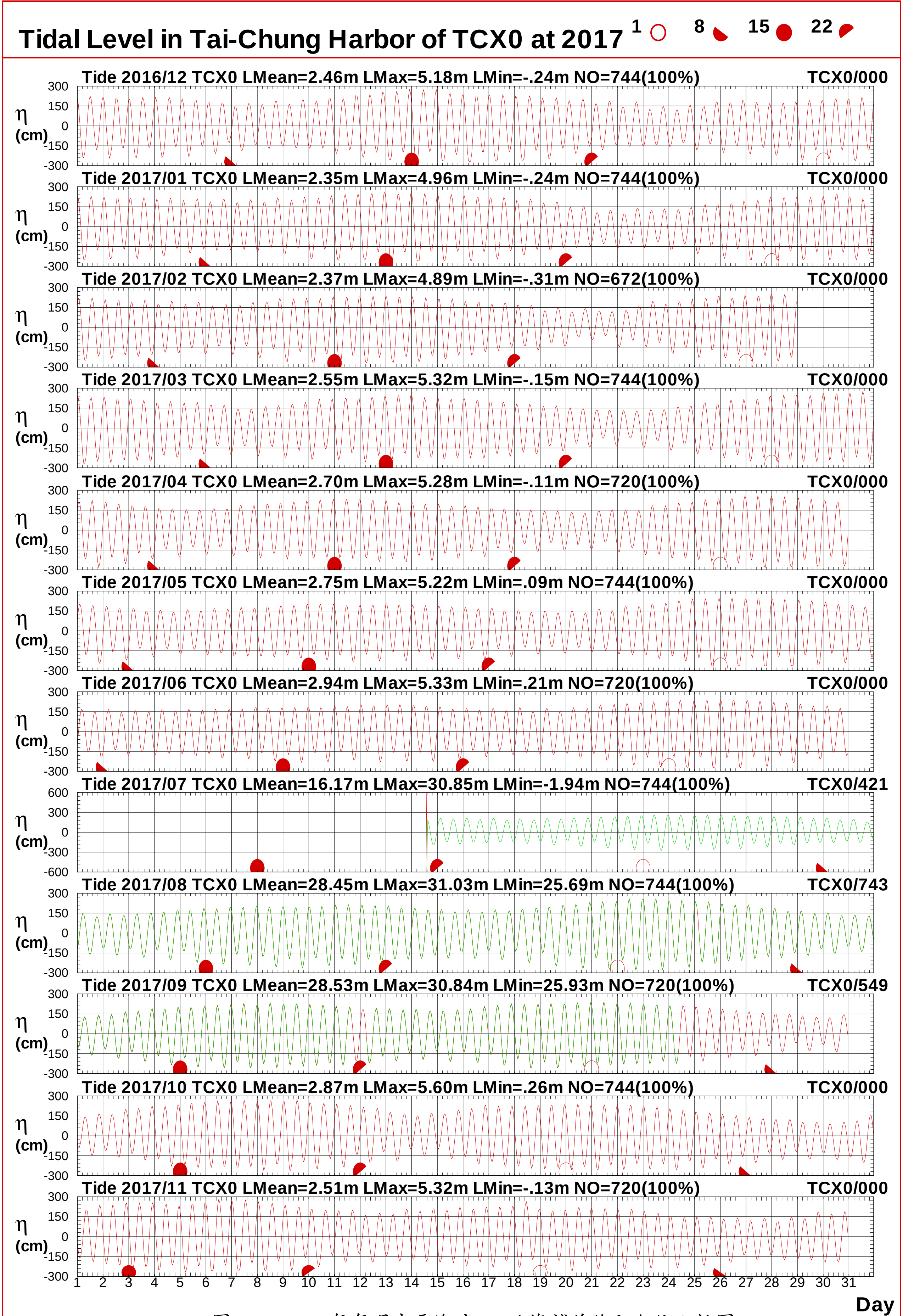

圖3.7　2017年每月中雲海域 X 站修補前後之潮位比較圖

T16CTCX0.1HA T16CTCX0.1H0 T171TCX0.1HA T171TCX0.1H0 T172TCX0.1HA T172TCX0.1H0
T173TCX0.1HA T173TCX0.1H0 T174TCX0.1HA T174TCX0.1H0 T175TCX0.1HA T175TCX0.1H0

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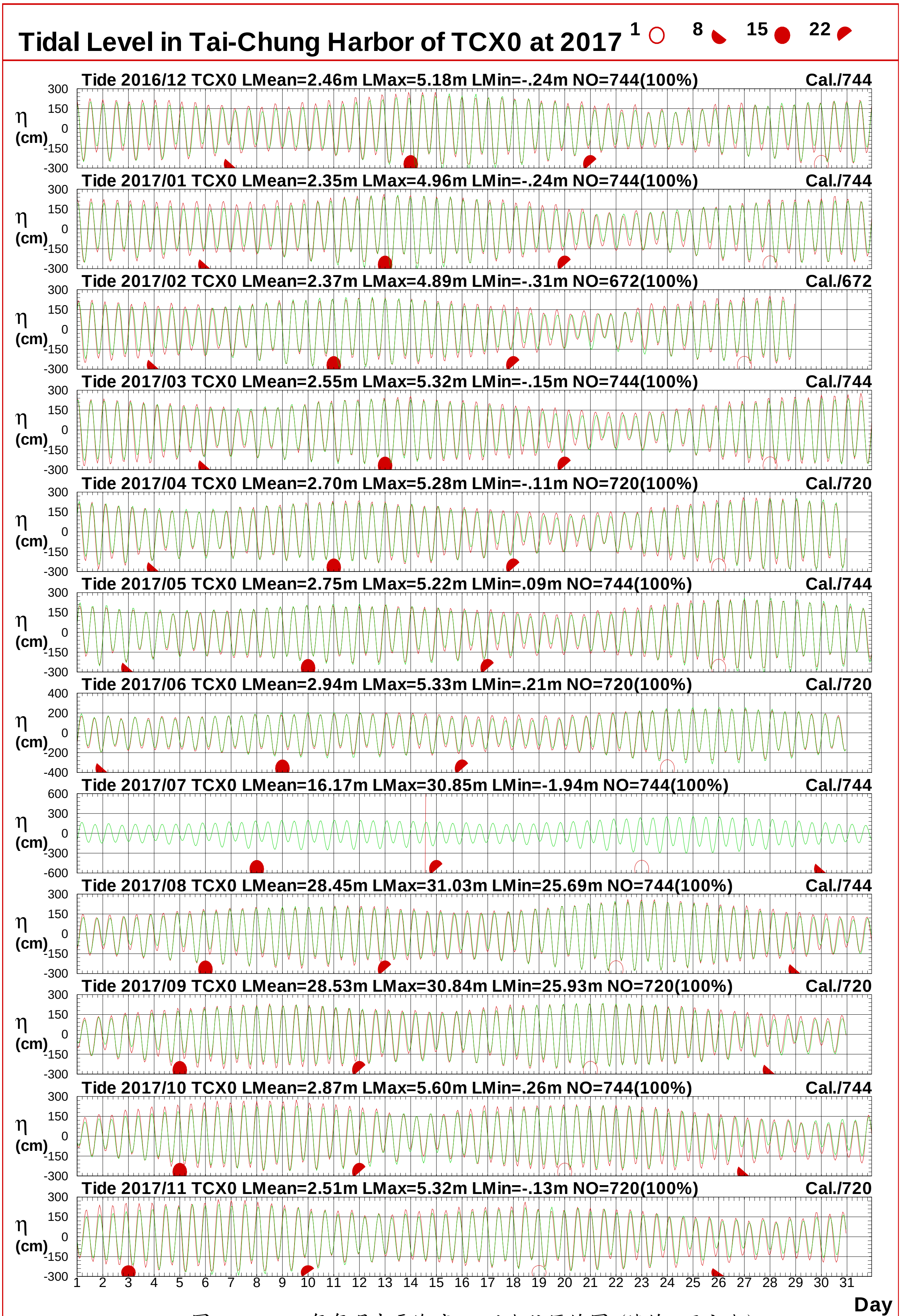

圖3.8 2017年每月中雲海域 X 站潮位歷線圖 (綠線: 天文潮)

T16CTCX0.1HA T16CTCT0.1HC T171TCX0.1HA T171TCT0.1HC T172TCX0.1HA T172TCT0.1HC
T173TCX0.1HA T173TCT0.1HC T174TCX0.1HA T174TCT0.1HC T175TCX0.1HA T175TCT0.1HC

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Tidal Level in Tai-Chung Harbor of TCT0 at 2017

1 8 15 22

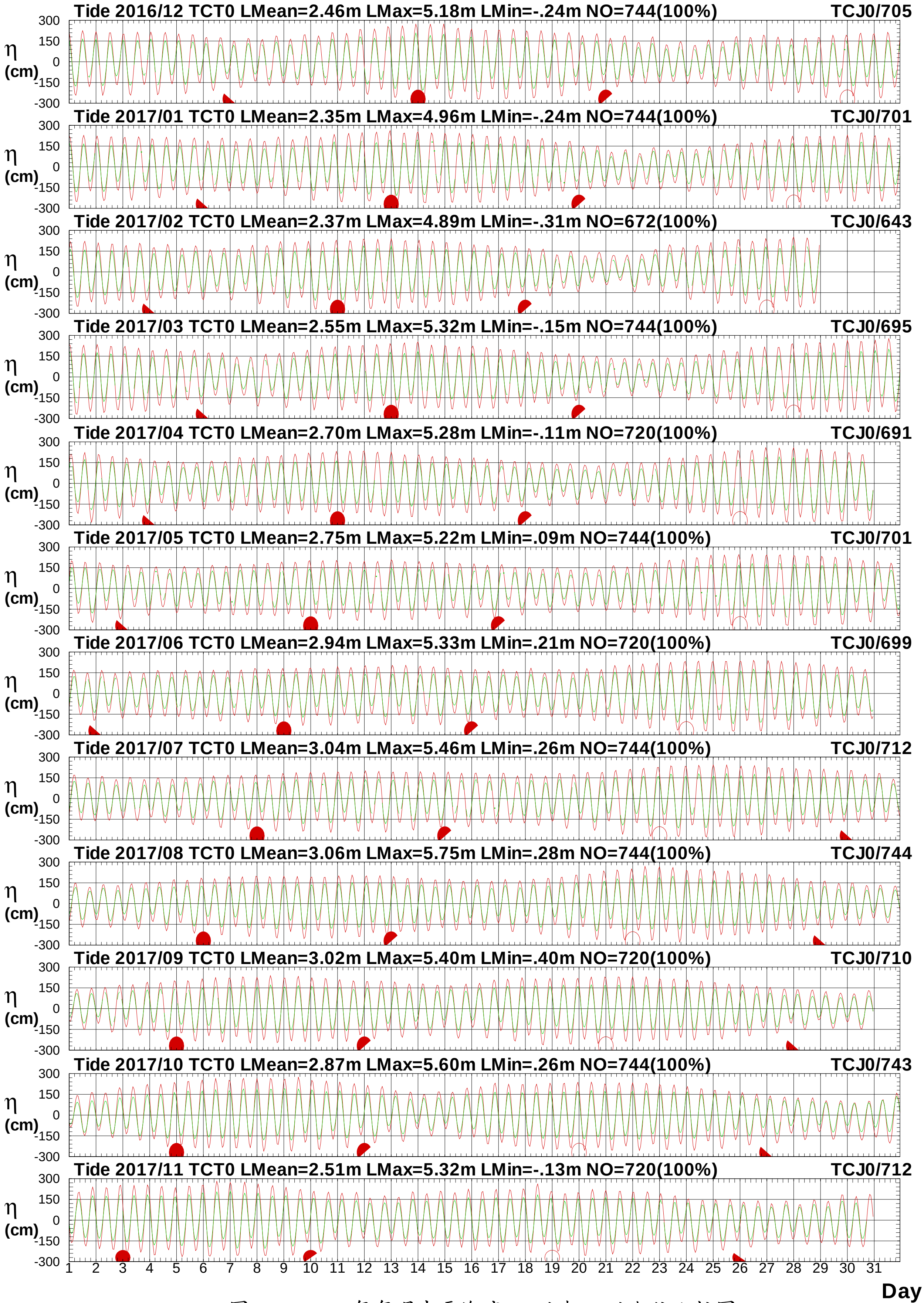

圖3.9　2017年每月中雲海域 T 站與 J 站潮位比較圖

T16CTCT0.1HA T16CTCJ0.1H0 T171TCT0.1HA T171TCJ0.1H0 T172TCT0.1HA T172TCJ0.1H0 T173TCT0.1HA T173TCJ0.1H0 T174TCT0.1HA T174TCJ0.1H0 T175TCT0.1HA T175TCJ0.1H0	Institute of Harbor & Marine Technology

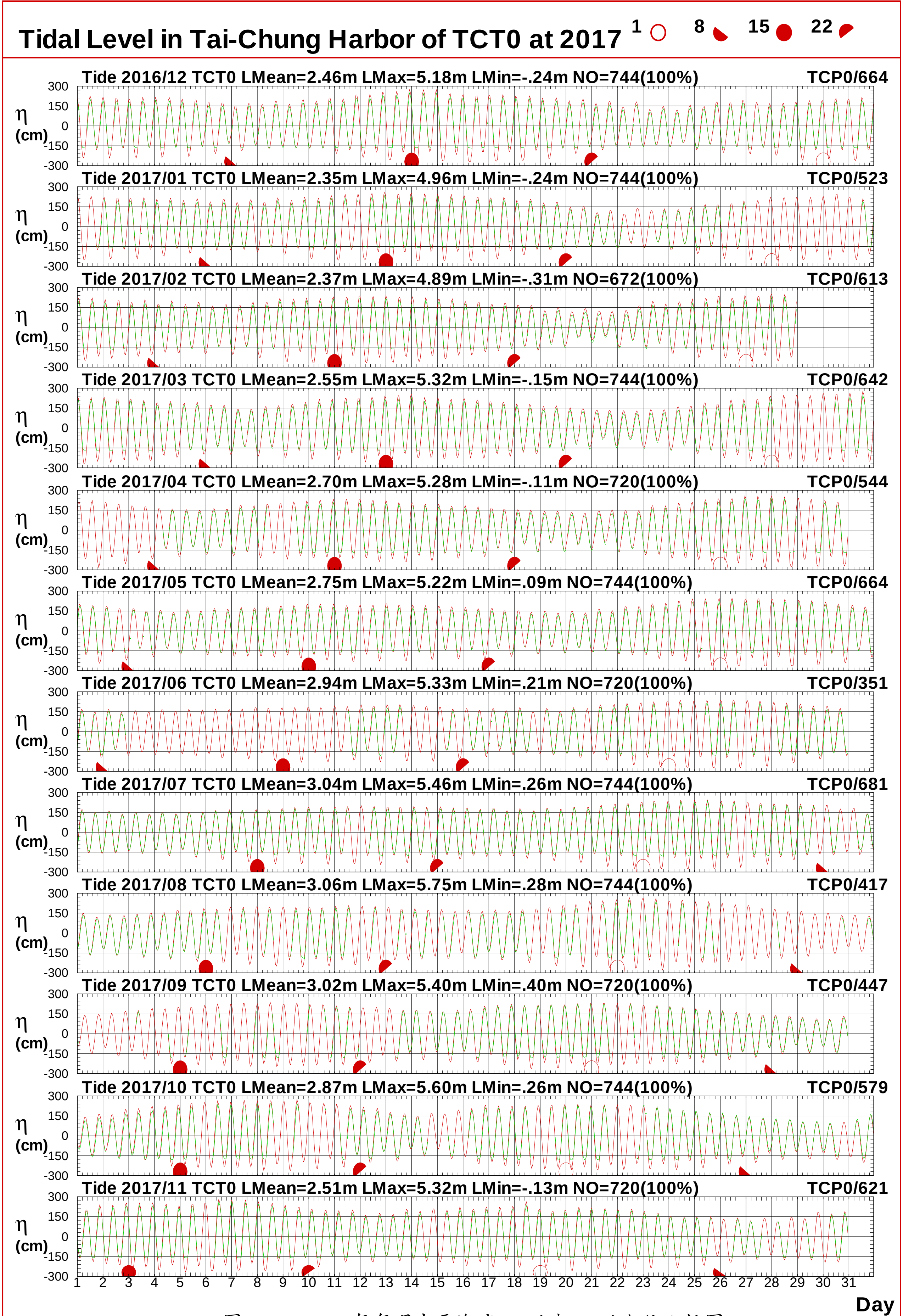

圖3.10　2017年每月中雲海域 T 站與 P 站潮位比較圖

T16CTCT0.1HA T16CTCP0.1H0 T171TCT0.1HA T171TCP0.1H0 T172TCT0.1HA T172TCP0.1H0 T173TCT0.1HA T173TCP0.1H0 T174TCT0.1HA T174TCP0.1H0 T175TCT0.1HA T175TCP0.1H0	Institute of Harbor & Marine Technology

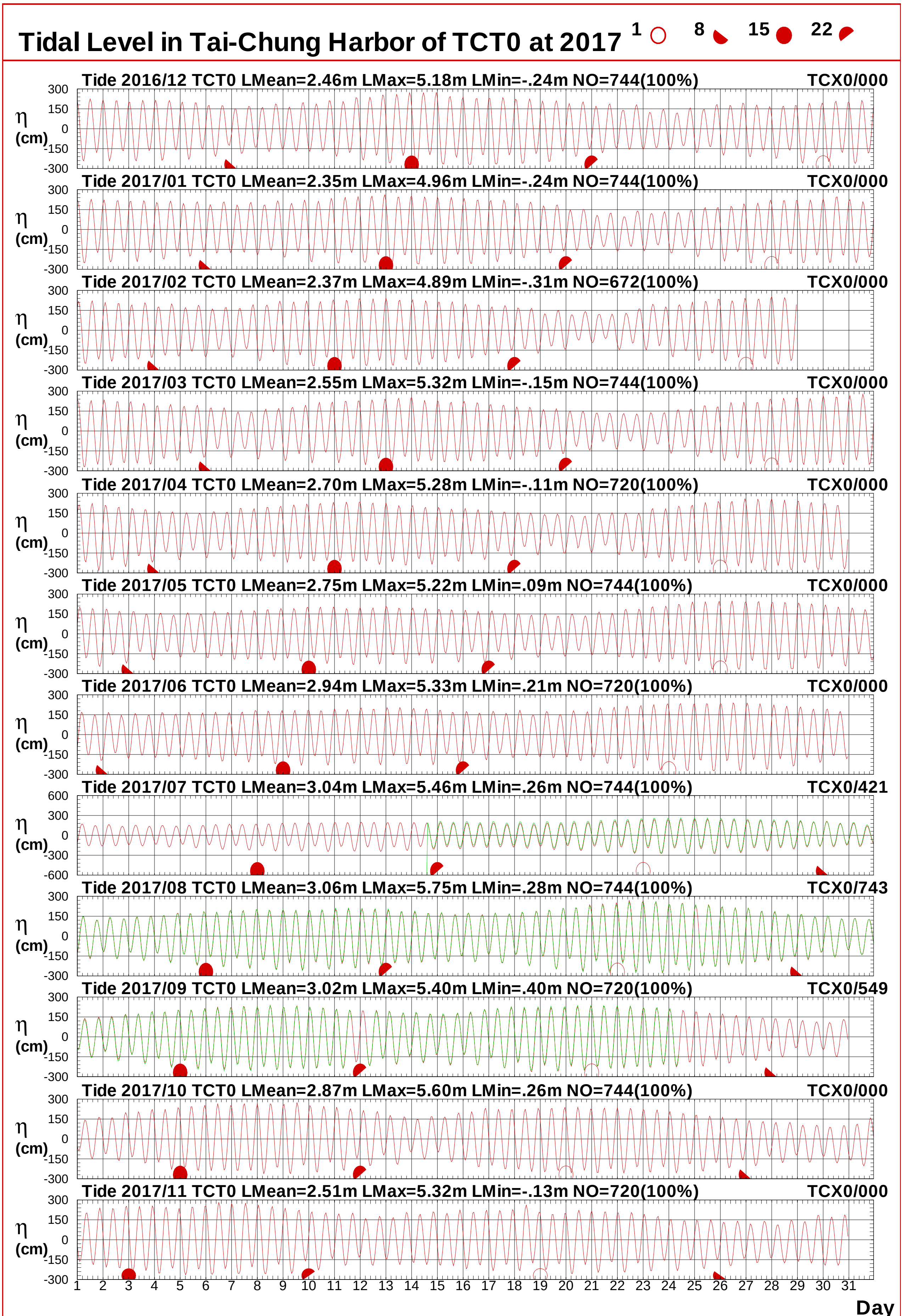

圖3.11　2017年每月中雲海域 T 站與 X 站潮位比較圖

T16CTCT0.1HA T16CTCX0.1H0 T171TCT0.1HA T171TCX0.1H0 T172TCT0.1HA T172TCX0.1H0
T173TCT0.1HA T173TCX0.1H0 T174TCT0.1HA T174TCX0.1H0 T175TCT0.1HA T175TCX0.1H0

Institute of Harbor & Marine Technology

第四章　2017 年中雲海域觀測海流資料

中雲海域海流之觀測包括**測站 X 、測站 Y、測站 Z、測站 U 及測站 R 等** 5 個測站(測站位置如第 O 章圖 CG1)。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年每月臺中海域各測站觀測海流資料紀錄表

海域	中雲海域	中雲海域	中雲海域	中雲海域	中雲海域	中雲海域	中雲海域	中雲海域	中雲海域	中雲海域	中雲海域	中雲海域
年月/測站	X	Y	R	Z	U							
2016/12月	*	478(64.2%)	243(32.7%)	725(97.4%)	95(12.8%)	*	*	*	*	*	*	*
2017/ 1月	*	*	19(2.6%)	679(91.3%)	241(32.4%)	*	*	*	*	*	*	*
2017/ 2月	*	*	115(17.1%)	657(97.8%)	163(24.3%)	*	*	*	*	*	*	*
2017/ 3月	*	*	403(54.2%)	716(96.2%)	276(37.1%)	*	*	*	*	*	*	*
2017/ 4月	*	*	693(96.3%)	715(99.3%)	296(41.1%)	*	*	*	*	*	*	*
2017/ 5月	*	*	677(91.0%)	739(99.3%)	270(36.3%)	*	*	*	*	*	*	*
2017/ 6月	*	*	689(95.7%)	706(98.1%)	297(41.3%)	*	*	*	*	*	*	*
2017/ 7月	421(56.6%)	*	684(91.9%)	738(99.2%)	298(40.1%)	*	*	*	*	*	*	*
2017/ 8月	743(99.9%)	*	708(95.2%)	740(99.5%)	217(29.2%)	*	*	*	*	*	*	*
2017/ 9月	549(76.3%)	*	212(29.4%)	227(31.5%)	171(23.8%)	*	*	*	*	*	*	*
2017/10月	*	*	*	*	144(19.4%)	*	*	*	*	*	*	*
2017/11月	*	*	*	*	197(27.4%)	*	*	*	*	*	*	*
2017/冬季	*	478(22.1%)	377(17.5%)	2061(95.4%)	499(23.1%)	*	*	*	*	*	*	*
2017/春季	*	*	1773(80.3%)	2170(98.3%)	842(38.1%)	*	*	*	*	*	*	*
2017/夏季	1164(52.7%)	*	2081(94.2%)	2184(98.9%)	812(36.8%)	*	*	*	*	*	*	*
2017/秋季	549(25.1%)	*	212(9.7%)	227(10.4%)	512(23.4%)	*	*	*	*	*	*	*
2017/整年	1713(19.6%)	478(5.5%)	4443(50.7%)	6642(75.8%)	2665(30.4%)	*	*	*	*	*	*	*
起始年月	2017/07	2016/12	2016/12	2016/12	2016/12	*	*	*	*	*	*	*
結束年月	2017/09	2016/12	2017/09	2017/09	2017/11	*	*	*	*	*	*	*

表4.1b 2017年每月臺中海域計算潮流各測站資料紀錄表

海域 年月/測站	中雲海域 X	中雲海域 Y	中雲海域 R	中雲海域 Z	中雲海域	中雲海域	中雲海域	中雲海域	中雲海域	中雲海域	中雲海域	中雲海域
2016/12月	744(100%)	744(100%)	744(100%)	744(100%)	*	*	*	*	*	*	*	*
2017/ 1月	744(100%)	744(100%)	744(100%)	744(100%)	*	*	*	*	*	*	*	*
2017/ 2月	672(100%)	672(100%)	672(100%)	672(100%)	*	*	*	*	*	*	*	*
2017/ 3月	744(100%)	744(100%)	744(100%)	744(100%)	*	*	*	*	*	*	*	*
2017/ 4月	720(100%)	720(100%)	720(100%)	720(100%)	*	*	*	*	*	*	*	*
2017/ 5月	744(100%)	744(100%)	744(100%)	744(100%)	*	*	*	*	*	*	*	*
2017/ 6月	720(100%)	720(100%)	720(100%)	720(100%)	*	*	*	*	*	*	*	*
2017/ 7月	744(100%)	744(100%)	744(100%)	744(100%)	*	*	*	*	*	*	*	*
2017/ 8月	744(100%)	744(100%)	744(100%)	744(100%)	*	*	*	*	*	*	*	*
2017/ 9月	720(100%)	720(100%)	720(100%)	720(100%)	*	*	*	*	*	*	*	*
2017/10月	744(100%)	744(100%)	744(100%)	744(100%)	*	*	*	*	*	*	*	*
2017/11月	720(100%)	720(100%)	720(100%)	720(100%)	*	*	*	*	*	*	*	*
2017/冬季	2160(100%)	2160(100%)	2160(100%)	2160(100%)	*	*	*	*	*	*	*	*
2017/春季	2208(100%)	2208(100%)	2208(100%)	2208(100%)	*	*	*	*	*	*	*	*
2017/夏季	2208(100%)	2208(100%)	2208(100%)	2208(100%)	*	*	*	*	*	*	*	*
2017/秋季	2184(100%)	2184(100%)	2184(100%)	2184(100%)	*	*	*	*	*	*	*	*
2017/整年	8760(100%)	8760(100%)	8760(100%)	6792(77.5%)	*	*	*	*	*	*	*	*
起始年月	2016/12	2016/12	2016/12	2016/12	*	*	*	*	*	*	*	*
結束年月	2017/11	2017/11	2017/11	2017/09	*	*	*	*	*	*	*	*

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表4.2a 2017年中雲海域 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													
2	2017/01													
3	2017/02													
4	2017/03													
5	2017/04													
6	2017/05													
7	2017/06													
8	2017/07	421(57%)	35.9	31.8/N	81.7/NNE	23.8	65.3	10.9	.0	43.2	1.4	3.1	52.3	N /46.3%
9	2017/08	743(100%)	38.8	34.2/N	97.7/NNW	20.1	60.8	19.1	.0	40.2	.4	3.8	55.6	N /35.9%
10	2017/09	549(76%)	27.5	19.2/NNW	69.0/WSW	49.7	43.7	6.6	.0	34.2	.4	13.3	52.1	N /27.9%
11	2017/10													
12	2017/11													
13	2017/冬													
14	2017/春													
15	2017/夏	1164(53%)	37.7	33.3/N	97.7/NNW	21.4	62.5	16.2	.0	41.3	.8	3.5	54.4	N /39.7%
16	2017/秋	549(25%)	27.5	19.2/NNW	69.0/WSW	49.7	43.7	6.6	.0	34.2	.4	13.3	52.1	N /27.9%
17	2017/年	1713(20%)	34.5	28.6/N	97.7/NNW	30.5	56.5	13.1	.0	39.1	.6	6.7	53.6	N /35.9%

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表4.2b 2017年中雲海域 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%)	29.7	28.6/N	45.1/N	29.6	70.4	.0	.0	30.8	.0	.0	69.2	N /56.0%
2	2017/01	744(100%)	29.7	28.6/N	44.6/N	29.7	70.3	.0	.0	31.0	.0	.0	69.0	N /57.1%
3	2017/02	672(100%)	29.7	28.6/N	45.9/N	30.2	69.8	.0	.0	31.8	.0	.0	68.2	N /55.2%
4	2017/03	744(100%)	29.6	28.7/N	46.3/N	25.3	74.7	.0	.0	31.7	.0	.0	68.3	N /52.7%
5	2017/04	720(100%)	29.6	28.7/N	46.2/N	23.5	76.5	.0	.0	31.0	.0	.0	69.0	N /52.9%
6	2017/05	744(100%)	29.6	28.6/N	45.8/N	27.3	72.7	.0	.0	31.5	.0	.0	68.5	N /53.0%
7	2017/06	720(100%)	29.7	28.6/N	45.1/N	29.0	71.0	.0	.0	30.8	.0	.0	69.2	N /55.6%
8	2017/07	744(100%)	29.7	28.6/N	43.8/N	29.2	70.8	.0	.0	31.7	.0	.0	68.3	N /55.4%
9	2017/08	744(100%)	29.7	28.6/N	45.2/N	29.3	70.7	.0	.0	31.3	.0	.0	68.7	N /55.6%
10	2017/09	720(100%)	29.6	28.6/N	46.0/N	26.9	73.1	.0	.0	32.9	.0	.0	67.1	N /54.7%
11	2017/10	744(100%)	29.6	28.7/N	46.2/N	25.4	74.6	.0	.0	30.6	.0	.0	69.4	N /53.0%
12	2017/11	720(100%)	29.6	28.6/N	45.8/N	27.5	72.5	.0	.0	29.7	.0	.0	70.3	N /53.3%
13	2017/冬	2160(100%)	29.7	28.6/N	45.9/N	29.8	70.2	.0	.0	31.2	.0	.0	68.8	N /56.2%
14	2017/春	2208(100%)	29.6	28.7/N	46.3/N	25.4	74.6	.0	.0	31.4	.0	.0	68.6	N /52.9%
15	2017/夏	2208(100%)	29.7	28.6/N	45.2/N	29.2	70.8	.0	.0	31.3	.0	.0	68.7	N /55.5%
16	2017/秋	2184(100%)	29.6	28.6/N	46.2/N	26.6	73.4	.0	.0	31.1	.0	.0	68.9	N /53.7%
17	2017/年	8760(100%)	29.6	28.6/N	46.3/N	27.7	72.3	.0	.0	31.2	.0	.0	68.8	N /54.5%

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表4.2c　2017年中雲海域 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													
2	2017/01													
3	2017/02													
4	2017/03													
5	2017/04													
6	2017/05													
7	2017/06													
8	2017/07	421(57%)	15.7	.0/SSE	85.5/S	86.7	11.9	1.4	.0	34.2	17.8	27.6	20.4	NNE/11.9%
9	2017/08	743(100%)	17.1	.0/SSW	83.0/SW	82.4	16.7	.9	.0	32.4	21.4	26.0	20.2	NNE/12.1%
10	2017/09	549(76%)	18.1	.0/ESE	70.3/SW	83.2	11.5	5.3	.0	40.3	18.4	27.0	14.4	NNE/15.7%
11	2017/10													
12	2017/11													
13	2017/冬													
14	2017/春													
15	2017/夏	1164(53%)	17.0	.0/SSW	96.1/S	82.1	16.8	1.0	.0	31.6	21.8	25.7	20.9	NNE/11.1%
16	2017/秋	549(25%)	18.1	.0/ESE	70.3/SW	83.2	11.5	5.3	.0	40.3	18.4	27.0	14.4	NNE/15.7%
17	2017/年	1713(20%)	18.5	.0/WSW	93.7/S	79.9	17.5	2.6	.0	35.1	20.0	25.3	19.6	NNE/12.4%

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表4.3a　2017年中雲海域 Y 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	478(64%)	35.0	5.7/S	130.7/SW	47.9	30.5	18.0	3.6	42.3	12.1	42.7	2.9	NE /21.5%
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	478(22%)	35.0	5.7/S	130.7/SW	47.9	30.5	18.0	3.6	42.3	12.1	42.7	2.9	NE /21.5%
14	2017/春													
15	2017/夏													
16	2017/秋													
17	2017/年	478(6%)	35.0	5.7/S	130.7/SW	47.9	30.5	18.0	3.6	42.3	12.1	42.7	2.9	NE /21.5%

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表4.3b　2017年中雲海域 Y 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%)	26.6	5.5/S	64.9/SSW	48.4	46.9	4.7	.0	44.8	5.4	49.6	.3	NE /38.0%
2	2017/01	744(100%)	26.8	5.6/S	65.0/SSW	46.2	49.3	4.4	.0	44.5	5.4	49.9	.3	NE /35.3%
3	2017/02	672(100%)	26.5	5.5/S	62.1/SW	46.7	49.1	4.2	.0	43.9	6.7	48.8	.6	NE /34.1%
4	2017/03	744(100%)	27.3	5.6/S	58.3/SW	45.7	48.9	5.4	.0	43.1	6.9	49.5	.5	NE /31.9%
5	2017/04	720(100%)	27.2	5.6/S	61.8/SSW	46.9	48.8	4.3	.0	44.0	5.3	49.3	1.4	NE /32.5%
6	2017/05	744(100%)	27.0	5.6/S	65.4/SSW	46.8	48.8	4.4	.0	43.3	7.3	49.1	.4	NE /34.8%
7	2017/06	720(100%)	26.6	5.6/S	66.1/SSW	46.8	48.8	4.4	.0	44.6	4.7	50.6	.1	NE /37.2%
8	2017/07	744(100%)	26.3	5.6/S	64.8/SSW	48.7	47.0	4.3	.0	43.3	6.9	49.9	.0	SSW/37.6%
9	2017/08	744(100%)	26.1	5.6/S	63.0/SW	49.3	46.8	3.9	.0	43.0	7.0	48.7	1.3	NE /32.8%
10	2017/09	720(100%)	26.5	5.6/S	58.5/SW	48.8	47.6	3.6	.0	43.2	6.1	49.3	1.4	NE /32.1%
11	2017/10	744(100%)	26.4	5.5/S	59.1/SW	49.7	46.2	4.0	.0	43.4	7.1	49.1	.4	NE /33.1%
12	2017/11	720(100%)	26.7	5.5/S	63.2/SSW	47.2	47.9	4.9	.0	44.0	5.1	49.9	1.0	NE /35.3%
13	2017/冬	2160(100%)	26.7	5.5/S	65.0/SSW	47.1	48.4	4.4	.0	44.4	5.8	49.4	.4	NE /35.9%
14	2017/春	2208(100%)	27.2	5.6/S	65.4/SSW	46.5	48.8	4.7	.0	43.5	6.5	49.3	.8	NE /33.1%
15	2017/夏	2208(100%)	26.3	5.6/S	66.1/SSW	48.3	47.5	4.2	.0	43.6	6.2	49.7	.5	SSW/35.8%
16	2017/秋	2184(100%)	26.6	5.5/S	63.2/SSW	48.6	47.3	4.2	.0	43.5	6.1	49.4	.9	NE /33.5%
17	2017/年	8760(100%)	26.7	5.6/S	66.1/SSW	47.6	48.0	4.4	.0	43.8	6.2	49.5	.6	NE /34.5%

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表4.3c　2017年中雲海域 Y 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	478(64%)	23.6	.2/NNE	79.2/SW	64.6	28.5	6.9	.0	48.5	9.2	35.4	6.9	NE /21.3%
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	478(22%)	23.6	.2/NNE	79.2/SW	64.6	28.5	6.9	.0	48.5	9.2	35.4	6.9	NE /21.3%
14	2017/春													
15	2017/夏													
16	2017/秋													
17	2017/年	478(6%)	23.6	.2/NNE	79.2/SW	64.6	28.5	6.9	.0	48.5	9.2	35.4	6.9	NE /21.3%

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表4.4a　2017年中雲海域 Z 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	725(97%)	185.3	65.4/WNW	612.5/NNE	2.9	7.0	21.7	68.4	19.4	4.7	45.2	30.6	WSW/24.1%
2	2017/01	679(91%)	125.8	45.9/NW	552.4/NNE	4.4	12.1	36.1	47.4	32.7	1.3	40.1	25.9	NNE/19.9%
3	2017/02	657(98%)	156.4	51.8/NNW	601.0/ENE	4.6	12.3	32.0	51.1	36.4	1.4	36.7	25.6	NNE/19.8%
4	2017/03	716(96%)	129.7	49.0/NW	617.0/WSW	13.8	25.7	22.6	37.8	32.3	2.8	36.0	28.9	NNE/15.8%
5	2017/04	715(99%)	59.2	38.2/N	128.0/N	12.6	31.7	44.9	10.8	36.8	1.0	24.1	38.2	N /32.4%
6	2017/05	739(99%)	72.7	58.1/NNW	148.2/N	6.2	21.9	52.0	19.9	30.0	.4	15.8	53.7	N /35.9%
7	2017/06	706(98%)	82.3	73.5/N	159.2/N	1.7	14.6	57.2	26.5	33.7	.0	6.1	60.2	N /45.2%
8	2017/07	738(99%)	83.4	76.1/N	172.2/NNW	1.8	13.1	55.3	29.8	41.6	.0	4.9	53.5	N /45.5%
9	2017/08	740(100%)	72.1	65.7/N	175.5/N	5.1	19.5	60.5	14.9	30.7	.0	2.7	66.6	N /35.8%
10	2017/09	227(32%)	65.5	52.6/NNW	149.8/N	3.1	30.4	53.7	12.8	24.2	.0	14.1	61.7	N /27.3%
11	2017/10													
12	2017/11													
13	2017/冬	2061(95%)	156.5	50.8/NW	612.5/NNE	3.9	10.4	29.7	56.0	29.2	2.5	40.8	27.5	WSW/19.6%
14	2017/春	2170(98%)	87.1	46.5/NNW	617.0/WSW	10.8	26.4	40.0	22.8	33.0	1.4	25.2	40.4	N /27.9%
15	2017/夏	2184(99%)	79.2	71.6/N	175.5/N	2.9	15.8	57.7	23.7	35.3	.0	4.5	60.1	N /42.1%
16	2017/秋	227(10%)	65.5	52.6/NNW	149.8/N	3.1	30.4	53.7	12.8	24.2	.0	14.1	61.7	N /27.3%
17	2017/年	6642(76%)	105.3	53.7/NNW	617.0/WSW	5.8	18.1	43.1	33.0	32.3	1.2	22.9	43.6	N /27.1%

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表4.4b 2017年中雲海域 Z 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%)	58.0	53.7/NNW	79.3/N	.0	18.3	81.7	.0	10.2	.0	.0	89.8	N /34.0%
2	2017/01	744(100%)	58.2	53.7/NNW	80.0/N	.0	20.6	79.4	.0	11.6	.0	.0	88.4	N /32.7%
3	2017/02	672(100%)	58.2	53.7/NNW	82.3/N	.0	19.6	80.4	.0	12.1	.0	.0	87.9	N /33.6%
4	2017/03	744(100%)	58.3	53.7/NNW	82.3/N	.0	17.9	82.1	.0	12.2	.0	.0	87.8	N /32.4%
5	2017/04	720(100%)	58.1	53.7/NNW	81.7/N	.0	16.3	83.8	.0	13.6	.0	.0	86.4	N /33.8%
6	2017/05	744(100%)	58.1	53.7/NNW	80.6/N	.0	15.5	84.5	.0	12.9	.0	.0	87.1	N /34.4%
7	2017/06	720(100%)	58.1	53.7/NNW	79.2/N	.0	16.1	83.9	.0	11.4	.0	.0	88.6	N /33.6%
8	2017/07	744(100%)	58.1	53.7/NNW	80.1/N	.0	18.5	81.5	.0	12.0	.0	.0	88.0	N /33.7%
9	2017/08	744(100%)	58.1	53.7/NNW	80.6/N	.0	18.8	81.2	.0	11.0	.0	.0	89.0	N /32.5%
10	2017/09	720(100%)	58.0	53.7/NNW	81.3/N	.0	16.8	83.2	.0	11.3	.0	.0	88.8	N /33.6%
11	2017/10	744(100%)	57.8	53.6/NNW	81.6/N	.0	16.5	83.5	.0	11.3	.0	.0	88.7	N /32.5%
12	2017/11	720(100%)	57.9	53.7/NNW	81.1/N	.0	17.8	82.2	.0	12.5	.0	.0	87.5	N /32.4%
13	2017/冬	2160(100%)	58.0	53.6/NNW	83.0/N	.0	20.3	79.7	.0	11.3	.0	.0	88.8	N /33.3%
14	2017/春	2208(100%)	58.1	53.5/NNW	82.9/N	.0	17.3	82.7	.0	12.9	.0	.0	87.1	N /33.5%
15	2017/夏	2208(100%)	58.0	53.5/NNW	81.2/N	.0	19.3	80.7	.0	11.4	.0	.0	88.6	N /33.3%
16	2017/秋	2184(100%)	57.8	53.5/NNW	82.2/N	.0	17.8	82.2	.0	11.7	.0	.0	88.3	N /32.8%
17	2017/年	6792(76%)	58.1	53.7/NNW	82.3/N	.0	18.2	81.8	.0	11.7	.0	.0	88.3	N /33.5%

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表4.4c 2017年中雲海域 Z 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	725(97%)	175.8	52.5/SW	577.9/SW	4.8	9.4	19.2	66.6	17.4	12.0	56.1	14.5	SW /21.1%
2	2017/01	679(91%)	109.4	16.4/SSW	521.1/NNE	11.6	17.1	31.1	40.2	33.4	10.6	50.1	5.9	SSW/24.7%
3	2017/02	657(98%)	139.8	2.3/S	609.3/ENE	12.3	16.6	26.6	44.4	36.7	11.9	45.7	5.8	SSW/15.4%
4	2017/03	716(96%)	123.3	20.5/SW	631.3/SW	13.0	21.5	32.7	32.8	28.2	40.6	23.3	7.8	SSE/20.7%
5	2017/04	715(99%)	46.1	19.1/SE	113.3/S	22.4	39.9	36.6	1.1	43.9	45.2	8.5	2.4	S /19.9%
6	2017/05	739(99%)	43.8	12.4/NE	105.8/S	24.9	39.9	34.9	.3	50.9	24.9	12.4	11.8	NNE/21.4%
7	2017/06	706(98%)	42.7	25.2/NNE	114.7/NNE	27.1	38.1	34.4	.4	59.6	13.3	11.9	15.2	N /28.8%
8	2017/07	738(99%)	47.8	31.6/NNE	135.5/N	20.5	39.0	36.4	4.1	64.4	16.3	6.4	13.0	N /22.5%
9	2017/08	740(100%)	39.6	19.7/NE	135.6/NNE	30.1	45.1	23.9	.8	47.4	20.9	13.6	18.0	N /17.8%
10	2017/09	227(32%)	37.1	2.5/E	98.5/S	34.4	43.6	22.0	.0	32.6	25.1	23.8	18.5	N /18.5%
11	2017/10													
12	2017/11													
13	2017/冬	2061(95%)	142.5	24.1/SW	609.3/ENE	9.3	14.3	25.6	50.8	28.9	11.5	50.8	8.8	SSW/18.1%
14	2017/春	2170(98%)	70.9	7.0/SE	631.6/SW	20.1	33.6	34.8	11.5	41.0	36.8	14.8	7.4	S /17.7%
15	2017/夏	2184(99%)	43.5	25.5/NNE	136.2/NNE	26.1	40.4	31.6	1.8	57.1	16.8	10.6	15.5	N /23.0%
16	2017/秋	228(10%)	41.4	5.2/SSE	*****/S	33.3	44.3	21.9	.4	32.5	25.0	24.1	18.4	N /18.9%
17	2017/年	6641(76%)	105.0	53.7/NNW	627.5/ENE	5.5	17.9	42.4	34.1	33.2	2.1	22.6	42.1	N /20.1%

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表4.5a　2017年中雲海域 R 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	243(33%)	37.8	12.7/SW	108.6/SSW	36.6	36.6	25.9	.8	14.4	18.5	37.4	29.6	SSW/21.0%
2	2017/01	19(3%)	25.9	17.8/N	50.1/N	47.4	52.6	.0	.0	47.4	.0	21.1	31.6	N /47.4%
3	2017/02	115(17%)	46.3	15.3/SSW	115.0/SSW	31.3	29.6	36.5	2.6	29.6	8.7	49.6	12.2	SSW/22.6%
4	2017/03	403(54%)	45.5	9.4/ENE	132.3/NNE	28.0	34.2	33.5	4.2	47.4	17.4	31.3	4.0	NNE/23.6%
5	2017/04	693(96%)	55.1	29.5/NE	140.4/NNE	24.4	26.0	38.8	10.8	62.2	17.2	19.0	1.6	NNE/32.8%
6	2017/05	677(91%)	56.9	38.0/NE	153.9/NE	26.1	25.8	32.9	15.1	65.9	19.1	14.9	.1	NNE/36.0%
7	2017/06	689(96%)	65.3	58.0/NE	160.7/NE	26.0	18.6	30.0	25.4	79.7	13.5	6.1	.7	NNE/48.8%
8	2017/07	684(92%)	72.9	64.8/NE	183.7/NNE	10.2	19.3	48.5	21.9	87.0	6.1	6.1	.7	NNE/38.9%
9	2017/08	708(95%)	52.7	45.8/NE	348.5/NE	22.0	31.4	40.4	6.2	85.2	9.6	4.2	1.0	NE /34.5%
10	2017/09	212(29%)	41.3	28.5/NE	272.0/NE	43.9	24.1	26.9	5.2	66.0	17.5	11.8	4.7	NNE/26.9%
11	2017/10													
12	2017/11													
13	2017/冬	377(18%)	39.8	12.0/SSW	115.0/SSW	35.5	35.3	27.9	1.3	20.7	14.6	40.3	24.4	SSW/20.4%
14	2017/春	1773(80%)	53.6	28.0/NE	153.9/NE	25.9	27.8	35.4	10.9	60.2	17.9	20.2	1.6	NNE/31.9%
15	2017/夏	2081(94%)	63.5	56.0/NE	348.5/NE	19.5	23.2	39.6	17.7	84.0	9.8	5.5	.8	NNE/39.5%
16	2017/秋	212(10%)	41.3	28.5/NE	272.0/NE	43.9	24.1	26.9	5.2	66.0	17.5	11.8	4.7	NNE/26.9%
17	2017/年	4443(51%)	56.5	37.7/NE	348.5/NE	24.6	26.1	36.3	13.0	68.3	13.8	14.6	3.3	NNE/33.2%

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表4.5b　2017年中雲海域 R 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%)	38.6	37.7/NE	72.4/NNE	28.0	42.9	29.2	.0	96.8	3.2	.0	.0	NE /53.1%
2	2017/01	744(100%)	38.7	37.8/NE	71.5/NNE	28.4	43.0	28.6	.0	96.4	3.6	.0	.0	NE /52.2%
3	2017/02	672(100%)	38.6	37.7/NE	73.2/NNE	26.9	44.6	28.4	.0	95.8	4.2	.0	.0	NE /53.0%
4	2017/03	744(100%)	38.8	37.8/NE	76.7/NNE	27.4	42.7	29.8	.0	95.2	4.8	.0	.0	NE /51.5%
5	2017/04	720(100%)	38.9	37.7/NE	77.6/NNE	26.8	42.2	31.0	.0	95.0	5.0	.0	.0	NE /52.1%
6	2017/05	744(100%)	38.9	37.8/NE	76.3/NNE	27.2	41.5	31.3	.0	95.3	4.7	.0	.0	NE /52.6%
7	2017/06	720(100%)	38.7	37.7/NE	72.4/NNE	28.1	42.1	29.9	.0	96.8	3.2	.0	.0	NE /51.0%
8	2017/07	744(100%)	38.6	37.7/NE	72.3/NNE	28.9	41.4	29.7	.0	96.0	4.0	.0	.0	NE /50.0%
9	2017/08	744(100%)	38.6	37.7/NE	73.7/NNE	27.7	44.4	28.0	.0	96.0	4.0	.0	.0	NE /52.7%
10	2017/09	720(100%)	38.7	37.7/NE	75.9/NNE	27.5	44.3	28.2	.0	94.9	5.1	.0	.0	NE /54.6%
11	2017/10	744(100%)	38.7	37.7/NE	76.7/NNE	25.7	46.4	28.0	.0	95.7	4.3	.0	.0	NE /54.8%
12	2017/11	720(100%)	38.7	37.7/NE	76.5/NNE	26.9	44.0	29.0	.0	96.4	3.6	.0	.0	NE /55.0%
13	2017/冬	2160(100%)	38.7	37.7/NE	73.2/NNE	27.8	43.5	28.8	.0	96.3	3.7	.0	.0	NE /52.7%
14	2017/春	2208(100%)	38.9	37.8/NE	77.6/NNE	27.1	42.2	30.7	.0	95.2	4.8	.0	.0	NE /52.0%
15	2017/夏	2208(100%)	38.6	37.7/NE	73.7/NNE	28.2	42.6	29.2	.0	96.2	3.8	.0	.0	NE /51.2%
16	2017/秋	2184(100%)	38.7	37.7/NE	76.7/NNE	26.7	44.9	28.4	.0	95.7	4.3	.0	.0	NE /54.8%
17	2017/年	8760(100%)	38.7	37.7/NE	77.6/NNE	27.5	43.3	29.3	.0	95.8	4.2	.0	.0	NE /52.7%

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表4.5c　2017年中雲海域 R 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	243(33%)	66.9	50.3/SW	154.4/SSW	8.2	36.6	35.0	20.2	1.6	.0	71.2	27.2	SSW/43.2%
2	2017/01	19(3%)	36.2	18.8/W	81.8/SSW	31.6	57.9	10.5	.0	.0	.0	36.8	63.2	NNW/21.1%
3	2017/02	115(17%)	73.6	52.2/SW	174.2/SSW	15.7	26.1	29.6	28.7	17.4	.9	70.4	11.3	SSW/42.6%
4	2017/03	403(54%)	63.1	29.9/SSW	167.6/SSW	19.1	24.1	39.7	17.1	24.8	1.0	62.3	11.9	SSW/45.7%
5	2017/04	693(96%)	64.3	8.7/SSW	169.3/SSW	15.9	23.5	44.9	15.7	39.0	3.3	49.9	7.8	SSW/38.5%
6	2017/05	677(91%)	64.3	1.2/SE	154.3/SSW	16.0	22.6	47.1	14.3	44.2	4.3	46.2	5.3	SSW/35.9%
7	2017/06	689(96%)	62.7	20.6/NNE	143.3/NNE	18.9	22.1	42.8	16.3	52.7	5.4	37.0	4.9	NNE/37.6%
8	2017/07	684(92%)	58.2	26.8/NE	170.8/NNE	19.4	31.0	36.8	12.7	62.4	9.9	22.2	5.4	NNE/35.2%
9	2017/08	708(95%)	45.2	8.2/ENE	306.9/NE	29.1	37.4	29.2	4.2	43.8	13.0	34.3	8.9	NNE/19.6%
10	2017/09	212(29%)	49.5	8.9/SSW	250.8/NE	20.8	40.1	35.8	3.3	31.1	6.6	51.4	10.8	SSW/24.5%
11	2017/10													
12	2017/11													
13	2017/冬	377(18%)	67.4	48.8/SW	174.2/SSW	11.7	34.5	32.1	21.8	6.4	.3	69.2	24.1	SSW/41.6%
14	2017/春	1773(80%)	64.0	10.4/SSW	169.3/SSW	16.6	23.3	44.6	15.5	37.7	3.2	51.3	7.8	SSW/39.1%
15	2017/夏	2081(94%)	55.3	18.1/NE	306.9/NE	22.5	30.2	36.2	11.0	52.9	9.5	31.2	6.4	NNE/30.7%
16	2017/秋	212(10%)	49.5	8.9/SSW	250.8/NE	20.8	40.1	35.8	3.3	31.1	6.6	51.4	10.8	SSW/24.5%
17	2017/年	4443(51%)	59.5	.2/S	306.9/NE	19.2	28.3	39.2	13.3	41.8	6.0	43.4	8.7	SSW/29.3%

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表4.6a 2017年中雲海域 U 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	95(13%)	48.9	21.0/SSW	135.0/SW	25.3	36.8	30.5	7.4	29.5	7.4	57.9	5.3	SW /32.6%
2	2017/01	241(32%)	46.7	11.3/S	124.6/SW	24.1	38.2	34.4	3.3	38.2	8.3	51.0	2.5	SSW/23.7%
3	2017/02	163(24%)	47.3	8.5/SSE	134.9/SW	22.7	39.3	35.6	2.5	39.3	16.6	40.5	3.7	SW /21.5%
4	2017/03	276(37%)	45.2	11.7/ESE	128.6/NE	23.9	42.4	29.7	4.0	42.4	16.3	38.8	2.5	NE /27.2%
5	2017/04	296(41%)	48.1	24.8/ENE	126.8/NE	26.4	34.8	34.8	4.1	51.4	27.0	20.9	.7	NE /29.1%
6	2017/05	270(36%)	42.1	21.1/E	118.7/NE	25.2	46.7	25.6	2.6	46.3	32.2	21.5	.0	NE /23.3%
7	2017/06	297(41%)	57.7	48.7/ENE	157.9/NE	18.2	38.0	32.0	11.8	63.3	32.0	4.7	.0	NE /36.4%
8	2017/07	298(40%)	49.2	36.8/ENE	147.7/NE	20.8	43.0	29.2	7.0	54.0	38.3	7.7	.0	NE /33.9%
9	2017/08	217(29%)	47.6	38.6/ENE	150.9/NE	32.3	30.4	28.6	8.8	63.1	26.7	9.2	.9	NE /34.1%
10	2017/09	171(24%)	31.9	13.2/E	106.1/NE	55.6	23.4	20.5	.6	42.7	26.3	28.7	2.3	NE /16.4%
11	2017/10	144(19%)	29.0	3.6/ESE	101.2/SW	52.1	36.1	11.8	.0	38.9	15.3	36.1	9.7	NE /19.4%
12	2017/11	197(27%)	40.5	10.2/SSE	129.4/SW	34.0	35.5	28.9	1.5	34.0	19.8	43.1	3.0	SSW/17.8%
13	2017/冬	499(23%)	47.3	11.4/S	135.0/SW	23.8	38.3	34.1	3.8	36.9	10.8	48.9	3.4	SW /23.4%
14	2017/春	842(38%)	45.2	18.9/E	128.6/NE	25.2	41.1	30.2	3.6	46.8	25.2	27.0	1.1	NE /26.6%
15	2017/夏	812(37%)	51.9	41.5/ENE	157.9/NE	22.9	37.8	30.0	9.2	59.9	32.9	7.0	.2	NE /34.9%
16	2017/秋	512(23%)	34.4	7.3/ESE	129.4/SW	46.3	31.6	21.3	.8	38.3	20.7	36.3	4.7	NE /16.4%
17	2017/年	2665(30%)	45.6	18.5/E	157.9/NE	28.3	37.7	29.2	4.8	47.3	24.0	26.8	2.0	NE /25.6%

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表4.6b　2017年中雲海域 U 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%)	18.5	18.5/E	21.1/ENE	100.0	.0	.0	.0	99.7	.3	.0	.0	E /61.3%
2	2017/01	744(100%)	18.5	18.5/E	21.3/ENE	100.0	.0	.0	.0	99.9	.1	.0	.0	E /60.8%
3	2017/02	672(100%)	18.5	18.5/E	21.4/ENE	100.0	.0	.0	.0	100.0	.0	.0	.0	E /64.4%
4	2017/03	744(100%)	18.5	18.5/E	21.2/ENE	100.0	.0	.0	.0	100.0	.0	.0	.0	E /64.4%
5	2017/04	720(100%)	18.5	18.5/E	20.9/ENE	100.0	.0	.0	.0	100.0	.0	.0	.0	E /63.8%
6	2017/05	744(100%)	18.5	18.5/E	20.8/ENE	100.0	.0	.0	.0	100.0	.0	.0	.0	E /63.3%
7	2017/06	720(100%)	18.5	18.5/E	21.1/ENE	100.0	.0	.0	.0	99.9	.1	.0	.0	E /61.0%
8	2017/07	744(100%)	18.5	18.5/E	21.3/ENE	100.0	.0	.0	.0	99.9	.1	.0	.0	E /62.6%
9	2017/08	744(100%)	18.5	18.5/E	21.4/ENE	100.0	.0	.0	.0	100.0	.0	.0	.0	E /63.8%
10	2017/09	720(100%)	18.5	18.5/E	21.2/ENE	100.0	.0	.0	.0	100.0	.0	.0	.0	E /64.6%
11	2017/10	744(100%)	18.5	18.5/E	20.9/ENE	100.0	.0	.0	.0	100.0	.0	.0	.0	E /66.4%
12	2017/11	720(100%)	18.5	18.5/E	20.5/ENE	100.0	.0	.0	.0	100.0	.0	.0	.0	E /64.0%
13	2017/冬	2160(100%)	18.5	18.5/E	21.4/ENE	100.0	.0	.0	.0	99.9	.1	.0	.0	E /62.1%
14	2017/春	2208(100%)	18.5	18.5/E	21.2/ENE	100.0	.0	.0	.0	100.0	.0	.0	.0	E /63.8%
15	2017/夏	2208(100%)	18.5	18.5/E	21.4/ENE	100.0	.0	.0	.0	99.9	.1	.0	.0	E /62.5%
16	2017/秋	2184(100%)	18.5	18.5/E	21.2/ENE	100.0	.0	.0	.0	100.0	.0	.0	.0	E /65.0%
17	2017/年	8760(100%)	18.5	18.5/E	21.4/ENE	100.0	.0	.0	.0	99.9	.1	.0	.0	E /63.4%

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表4.6c 2017年中雲海域 U 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	95(13%)	54.0	36.4/SW	149.1/SW	22.1	32.6	34.7	10.5	21.1	4.2	63.2	11.6	SW /40.0%
2	2017/01	241(32%)	49.2	24.8/SW	137.9/SW	24.1	34.0	36.9	5.0	28.6	2.5	58.5	10.4	SW /39.0%
3	2017/02	163(24%)	47.6	18.4/SW	149.3/SW	28.8	31.9	34.4	4.9	31.9	5.5	55.2	7.4	SW /27.6%
4	2017/03	276(37%)	44.0	9.0/SW	131.7/SW	28.3	36.2	32.2	3.3	35.5	5.8	51.1	7.6	SW /28.6%
5	2017/04	296(41%)	42.2	6.8/NE	113.5/SW	35.1	31.4	32.1	1.4	44.3	10.1	39.9	5.7	NE /29.4%
6	2017/05	270(36%)	36.4	3.7/SE	101.6/NE	37.4	38.9	23.7	.0	39.6	12.2	44.4	3.7	NE /19.6%
7	2017/06	297(41%)	45.5	31.5/NE	142.2/NE	35.4	28.6	29.3	6.7	61.3	19.5	18.5	.7	NE /37.0%
8	2017/07	298(40%)	39.8	19.0/ENE	129.6/NE	36.6	35.6	25.2	2.7	49.7	18.8	29.9	1.7	NE /33.2%
9	2017/08	217(29%)	38.5	22.2/NE	132.3/NE	45.6	28.6	22.1	3.7	52.5	14.7	25.8	6.9	NE /22.6%
10	2017/09	171(24%)	30.9	5.5/WSW	92.0/SW	50.9	34.5	14.6	.0	28.7	4.7	55.0	11.7	SW /19.9%
11	2017/10	144(19%)	32.0	15.6/WSW	116.2/SW	45.1	38.9	14.6	1.4	21.5	4.9	54.9	18.8	SW /27.8%
12	2017/11	197(27%)	43.3	20.9/SW	144.0/SW	34.0	32.5	29.9	3.6	23.4	4.1	61.4	11.2	SW /35.0%
13	2017/冬	499(23%)	49.6	24.9/SW	149.3/SW	25.3	33.1	35.7	6.0	28.3	3.8	58.3	9.6	SW /35.5%
14	2017/春	842(38%)	41.0	1.4/SSE	131.7/SW	33.6	35.4	29.5	1.5	39.9	9.4	45.0	5.7	NE /21.5%
15	2017/夏	812(37%)	41.5	24.3/NE	142.2/NE	38.5	31.2	25.9	4.4	54.7	18.0	24.6	2.7	NE /31.8%
16	2017/秋	512(23%)	36.0	14.0/WSW	144.0/SW	42.8	35.0	20.5	1.8	24.6	4.5	57.4	13.5	SW /27.9%
17	2017/年	2665(30%)	41.8	.0/SSW	149.3/SW	35.3	33.6	27.8	3.3	39.3	10.0	43.7	7.0	NE /21.1%

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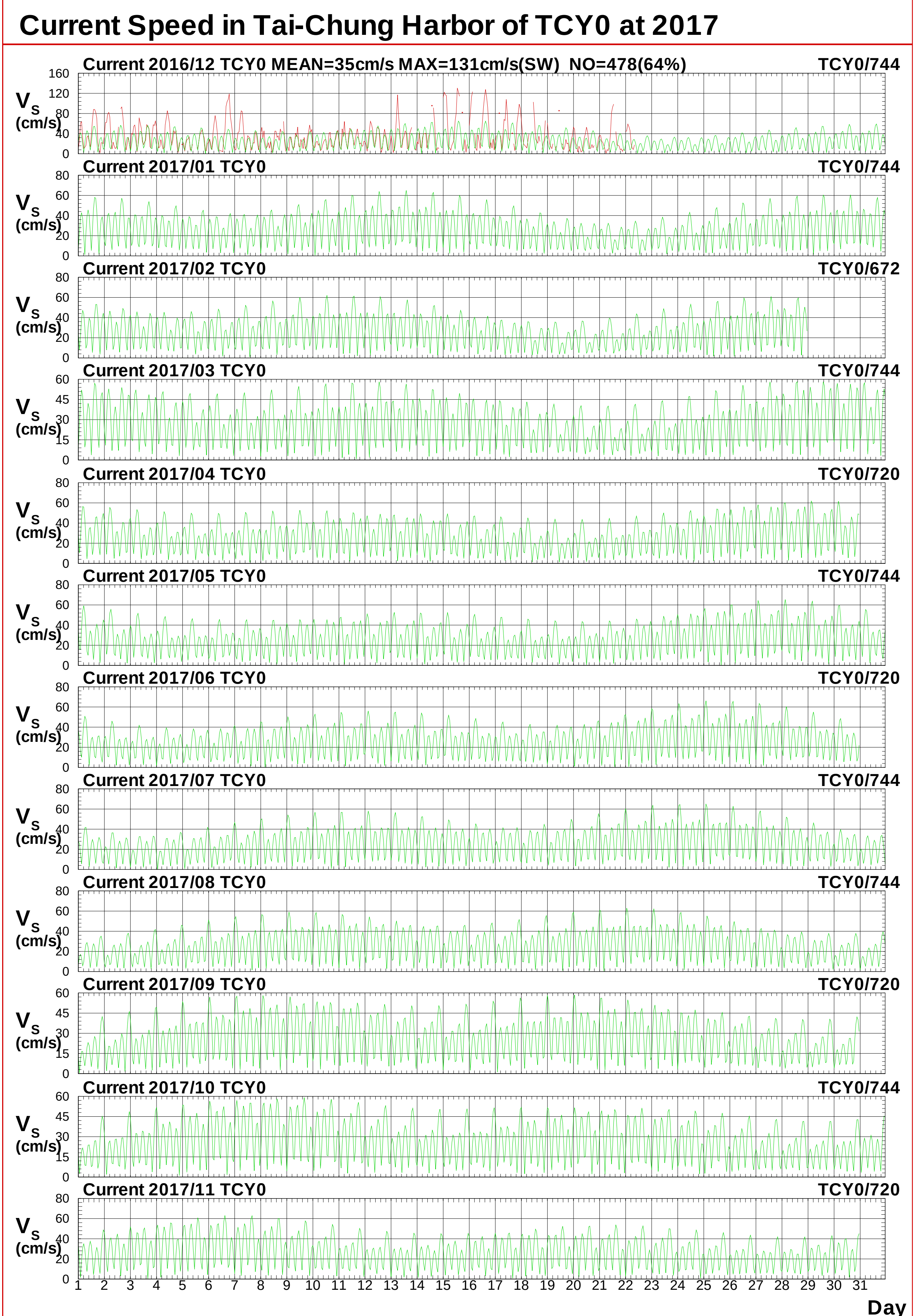

圖4.3a　2017年每月中雲海域 Y 站觀測與潮流流速比較圖

C16CTCY0.1H0 C16CTCY0.1HD C171TCY0.1H0 C171TCY0.1HD C172TCY0.1H0 C172TCY0.1HD
C173TCY0.1H0 C173TCY0.1HD C174TCY0.1H0 C174TCY0.1HD C175TCY0.1H0 C175TCY0.1HD

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Current Direction in Tai-Chung Harbor of TCY0 at 2017

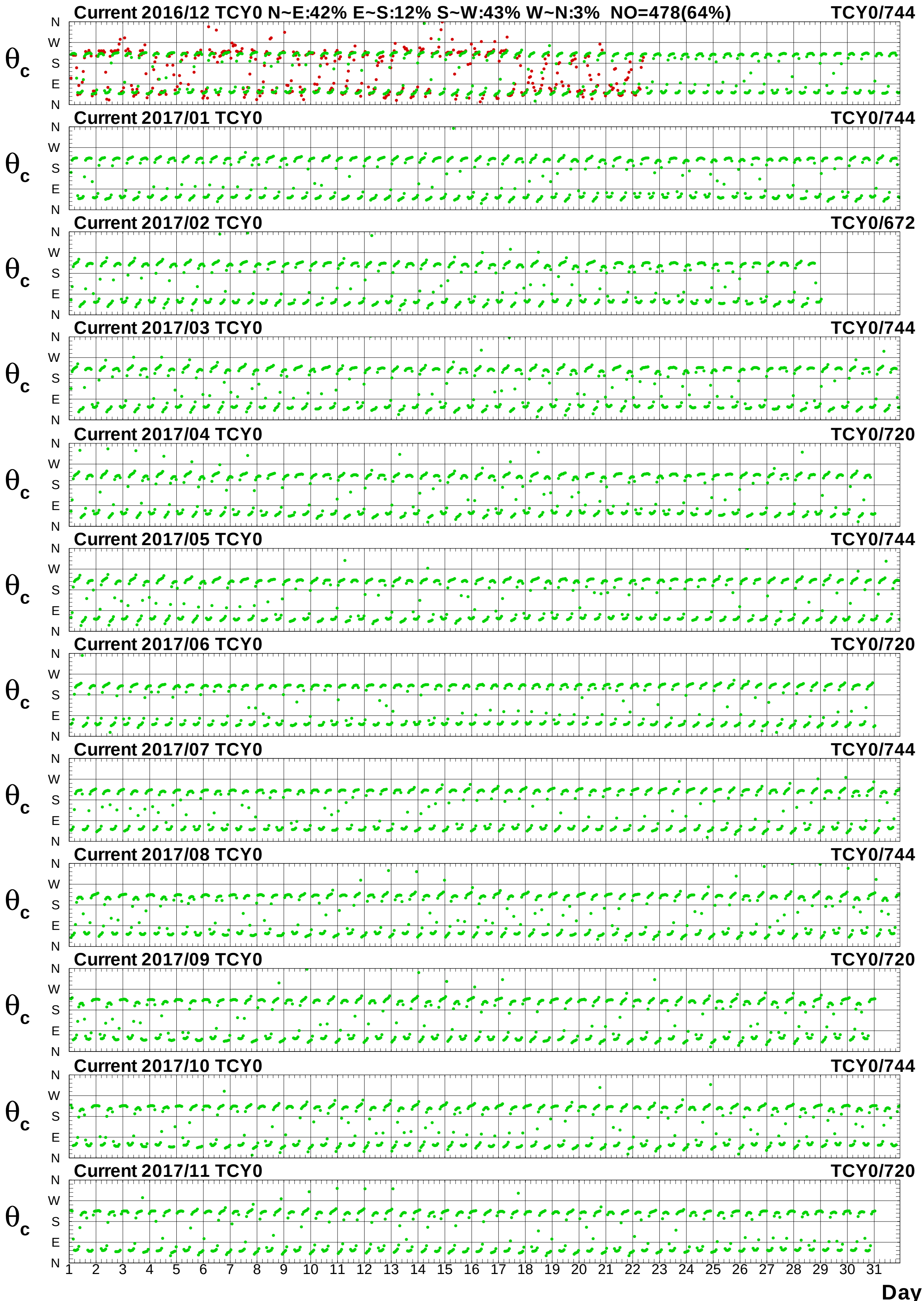

圖4.3b　2017年每月中雲海域 Y 站觀測與潮流流向比較圖

C16CTCY0.1H0 C16CTCY0.1HD C171TCY0.1H0 C171TCY0.1HD C172TCY0.1H0 C172TCY0.1HD C173TCY0.1H0 C173TCY0.1HD C174TCY0.1H0 C174TCY0.1HD C175TCY0.1H0 C175TCY0.1HD	Institute of Harbor & Marine Technology

Current Speed in Tai-Chung Harbor of TCY0 at 2017

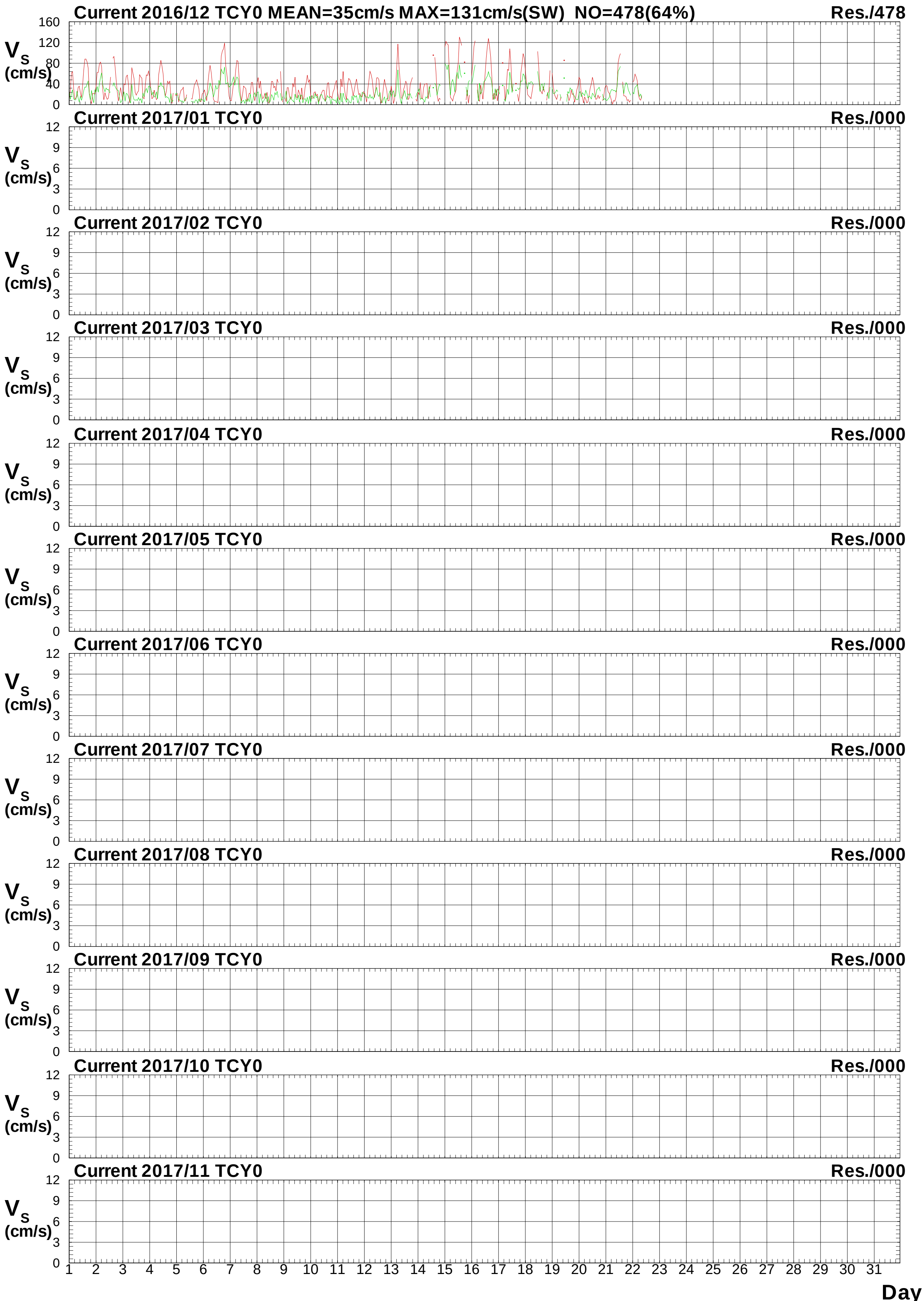

圖4.4a　2017年每月中雲海域 Y 站觀測與殘流流速比較圖

C16CTCY0.1H0 C16CTCY0.1HR C171TCY0.1H0 C171TCY0.1HR C172TCY0.1H0 C172TCY0.1HR
C173TCY0.1H0 C173TCY0.1HR C174TCY0.1H0 C174TCY0.1HR C175TCY0.1H0 C175TCY0.1HR

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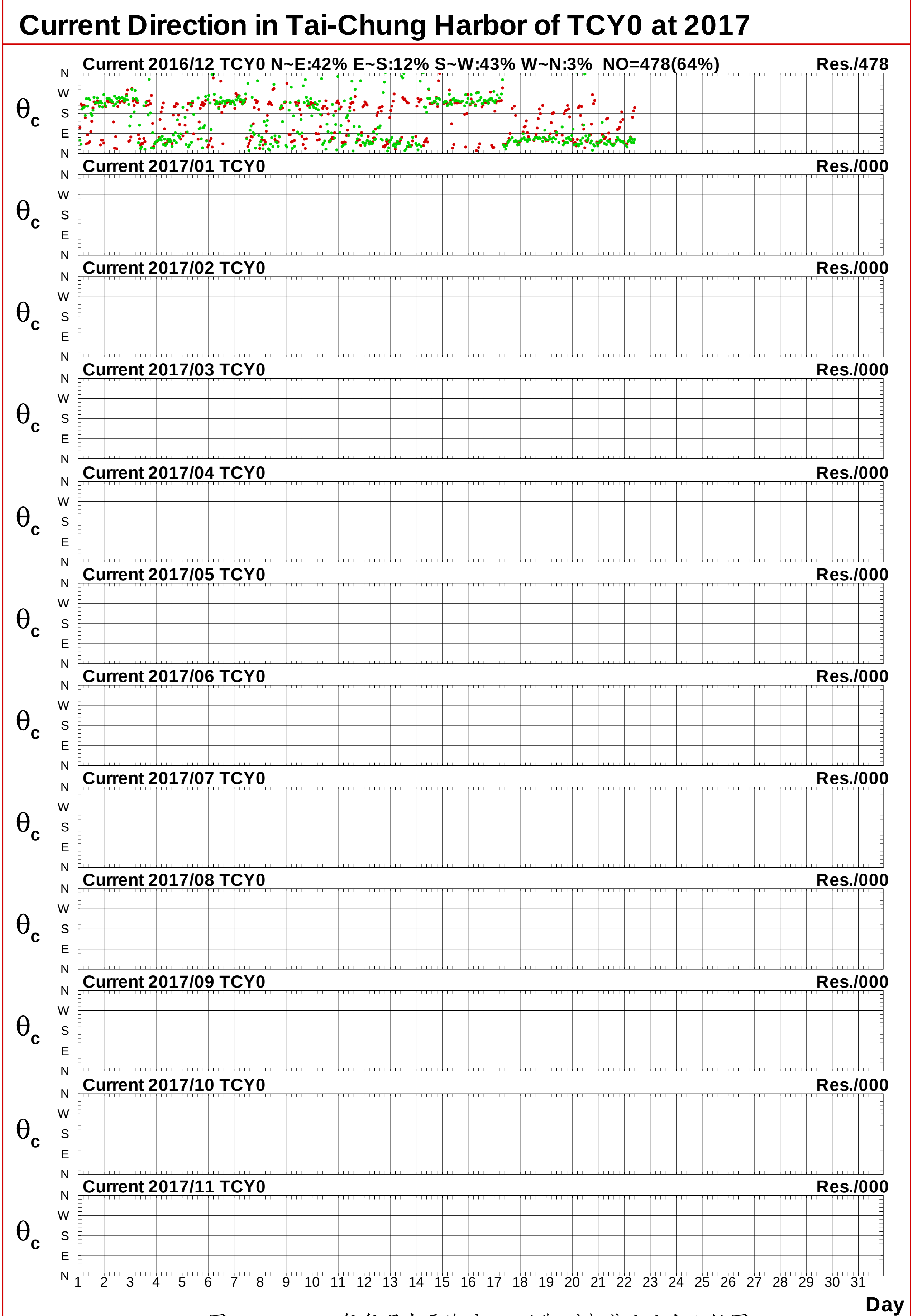

圖4.4b 2017年每月中雲海域 Y 站觀測與殘流流向比較圖

C16CTCY0.1H0 C16CTCY0.1HR C171TCY0.1H0 C171TCY0.1HR C172TCY0.1H0 C172TCY0.1HR
C173TCY0.1H0 C173TCY0.1HR C174TCY0.1H0 C174TCY0.1HR C175TCY0.1H0 C175TCY0.1HR

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Current Speed in Tai-Chung Harbor of TCZ0 at 2017

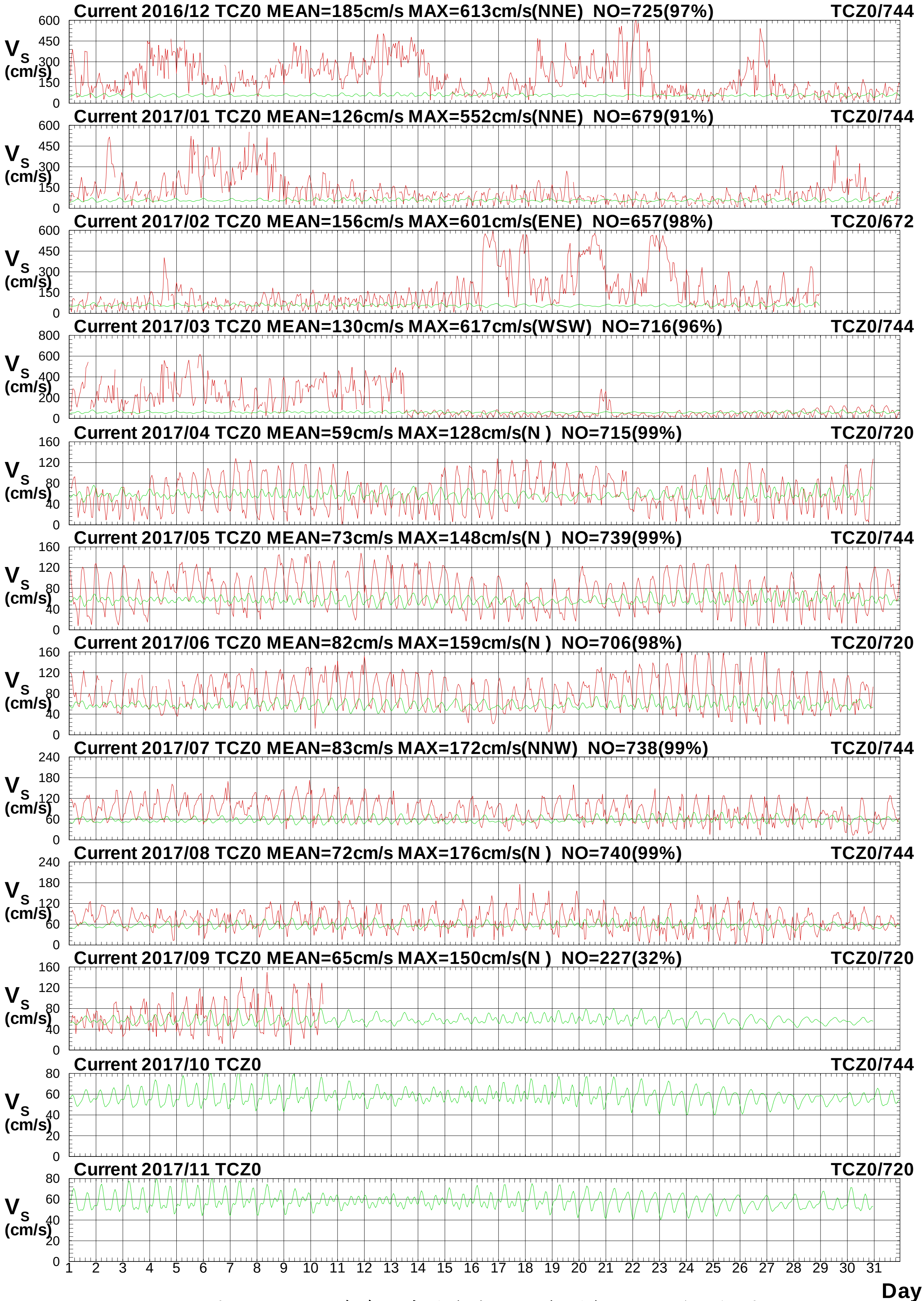

圖4.5a　2017年每月中雲海域 Z 站觀測與潮流流速比較圖

C16CTCZ0.1H0 C16CTCZ0.1HD C171TCZ0.1H0 C171TCZ0.1HD C172TCZ0.1H0 C172TCZ0.1HD
C173TCZ0.1H0 C173TCZ0.1HD C174TCZ0.1H0 C174TCZ0.1HD C175TCZ0.1H0 C175TCZ0.1HD

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Current Direction in Tai-Chung Harbor of TCZ0 at 2017

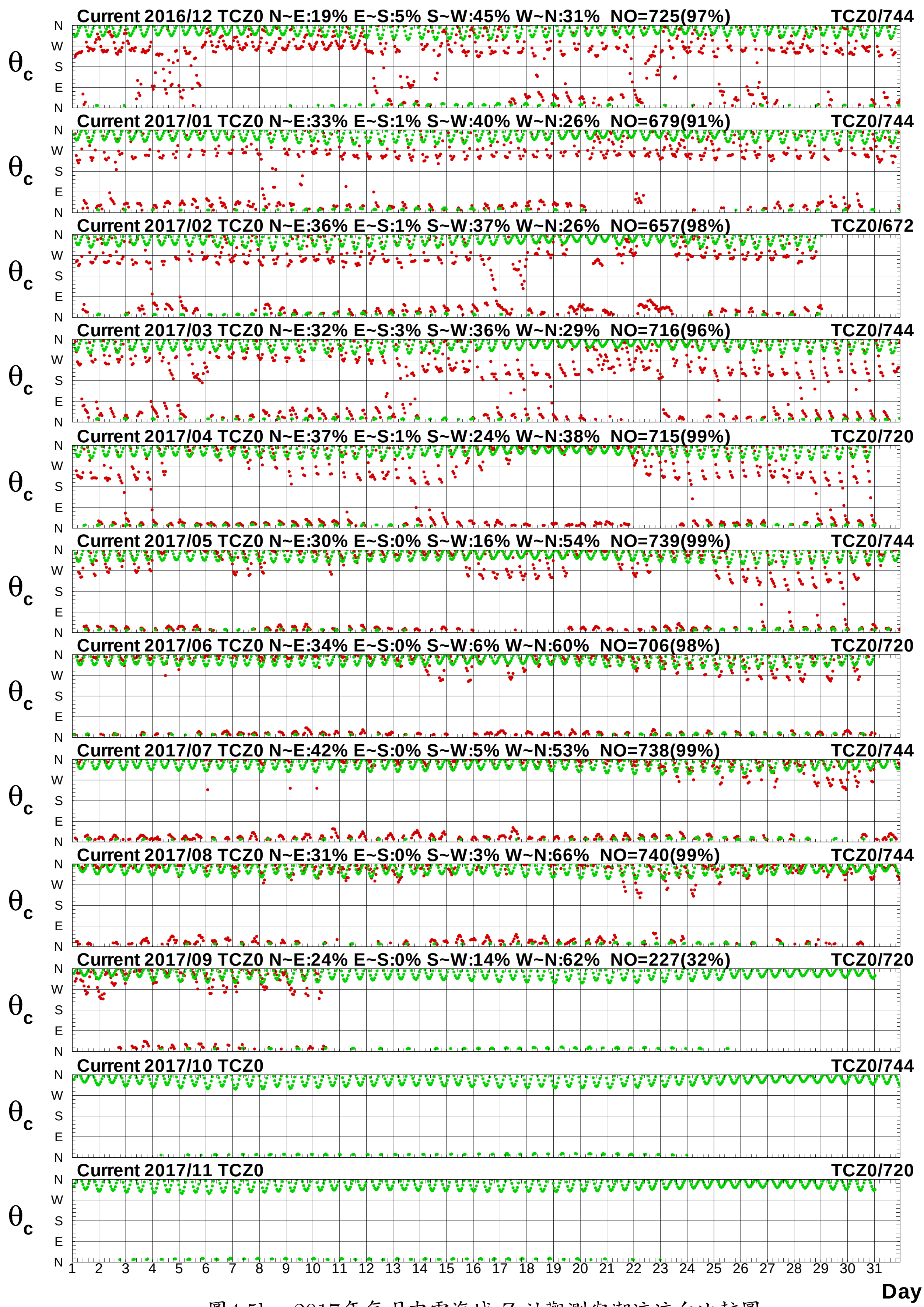

圖4.5b　2017年每月中雲海域 Z 站觀測與潮流流向比較圖

C16CTCZ0.1H0 C16CTCZ0.1HD C171TCZ0.1H0 C171TCZ0.1HD C172TCZ0.1H0 C172TCZ0.1HD C173TCZ0.1H0 C173TCZ0.1HD C174TCZ0.1H0 C174TCZ0.1HD C175TCZ0.1H0 C175TCZ0.1HD	Institute of Harbor & Marine Technology

Current Speed in Tai-Chung Harbor of TCZ0 at 2017

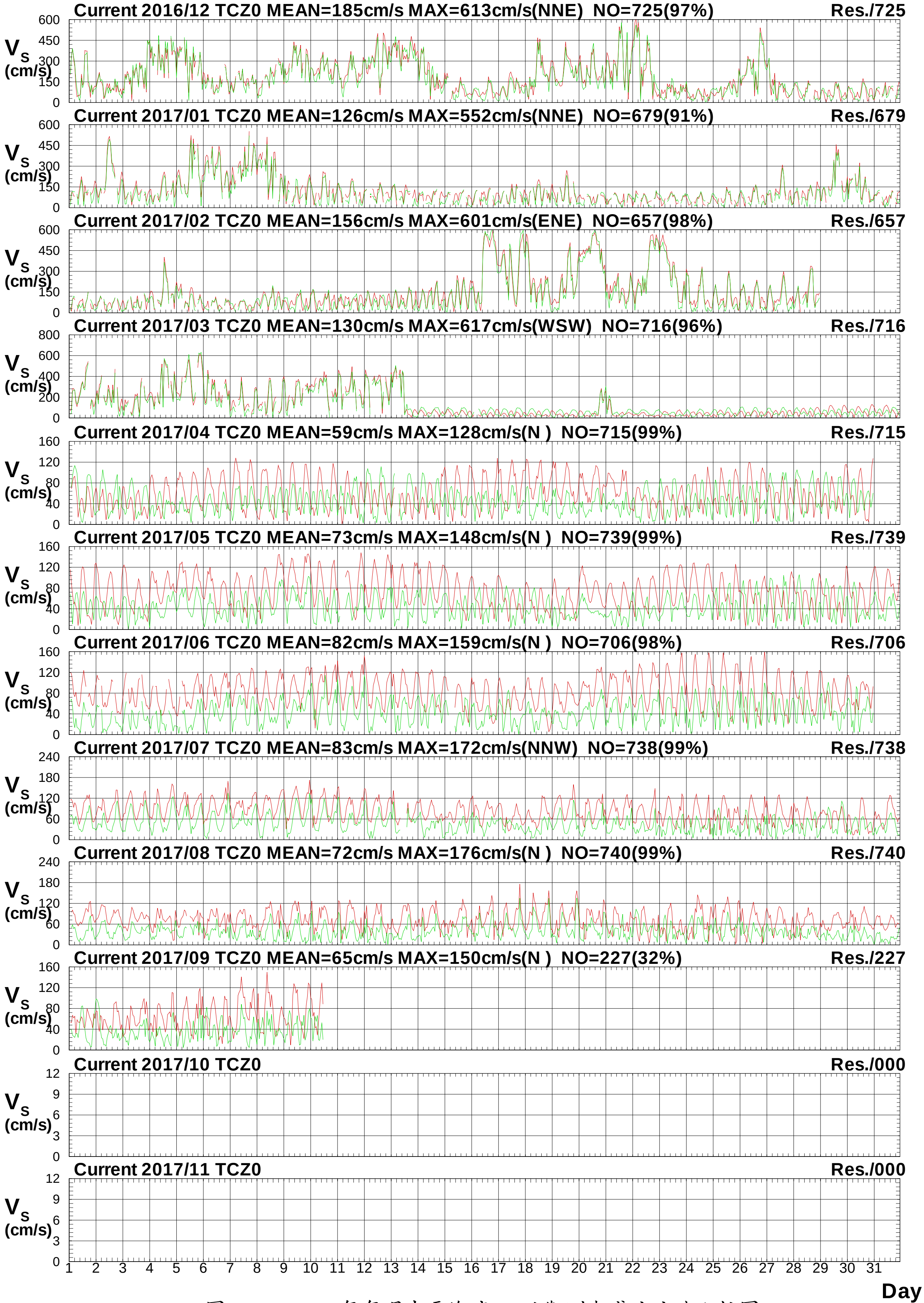

圖4.6a　2017年每月中雲海域 Z 站觀測與殘流流速比較圖

C16CTCZ0.1H0 C16CTCZ0.1HR C171TCZ0.1H0 C171TCZ0.1HR C172TCZ0.1H0 C172TCZ0.1HR C173TCZ0.1H0 C173TCZ0.1HR C174TCZ0.1H0 C174TCZ0.1HR C175TCZ0.1H0 C175TCZ0.1HR	Institute of Harbor & Marine Technology

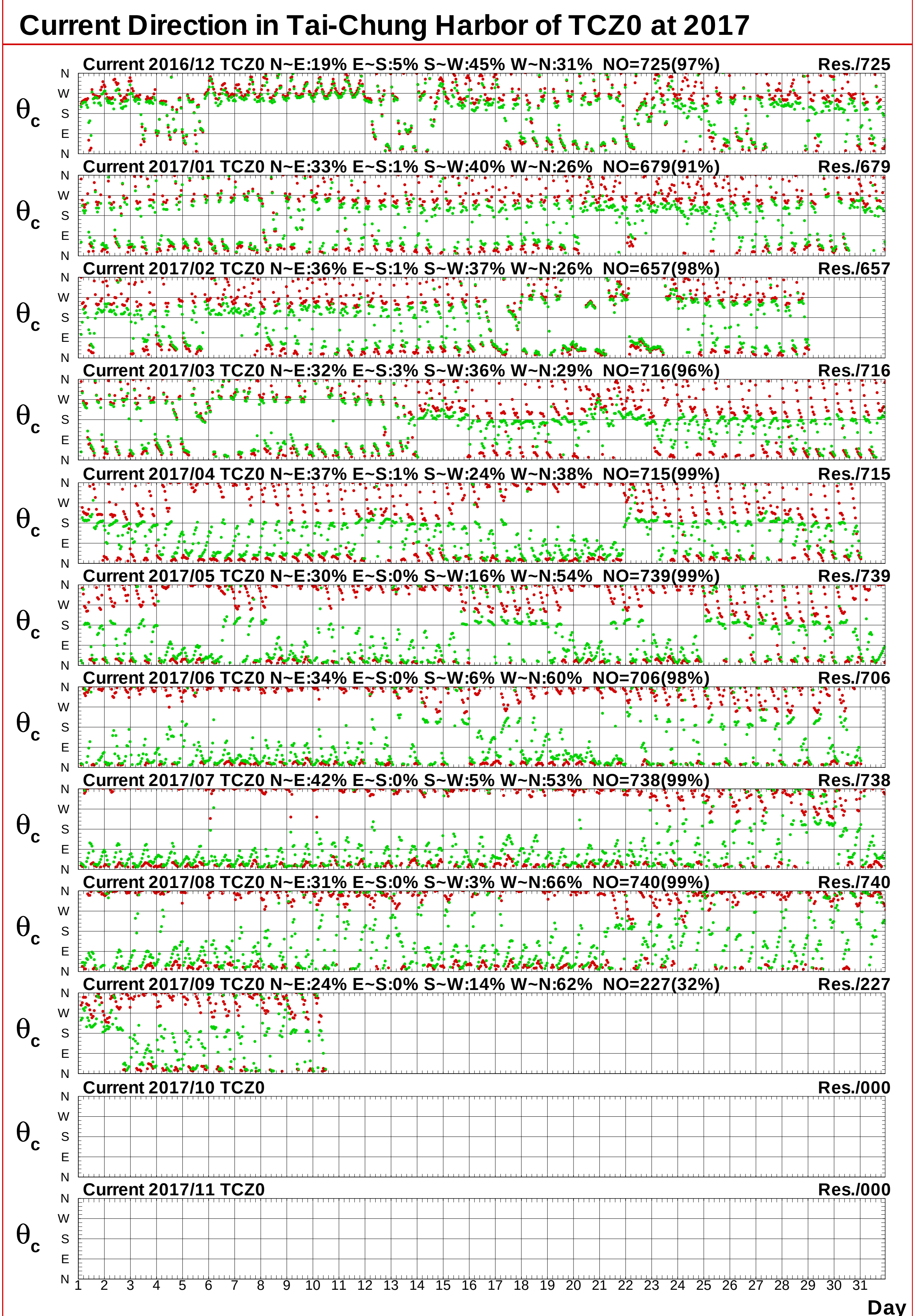

圖4.6b　2017年每月中雲海域 Z 站觀測與殘流流向比較圖

C16CTCZ0.1H0 C16CTCZ0.1HR C171TCZ0.1H0 C171TCZ0.1HR C172TCZ0.1H0 C172TCZ0.1HR

C173TCZ0.1H0 C173TCZ0.1HR C174TCZ0.1H0 C174TCZ0.1HR C175TCZ0.1H0 C175TCZ0.1HR

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Current Speed in Tai-Chung Harbor of TCR0 at 2017

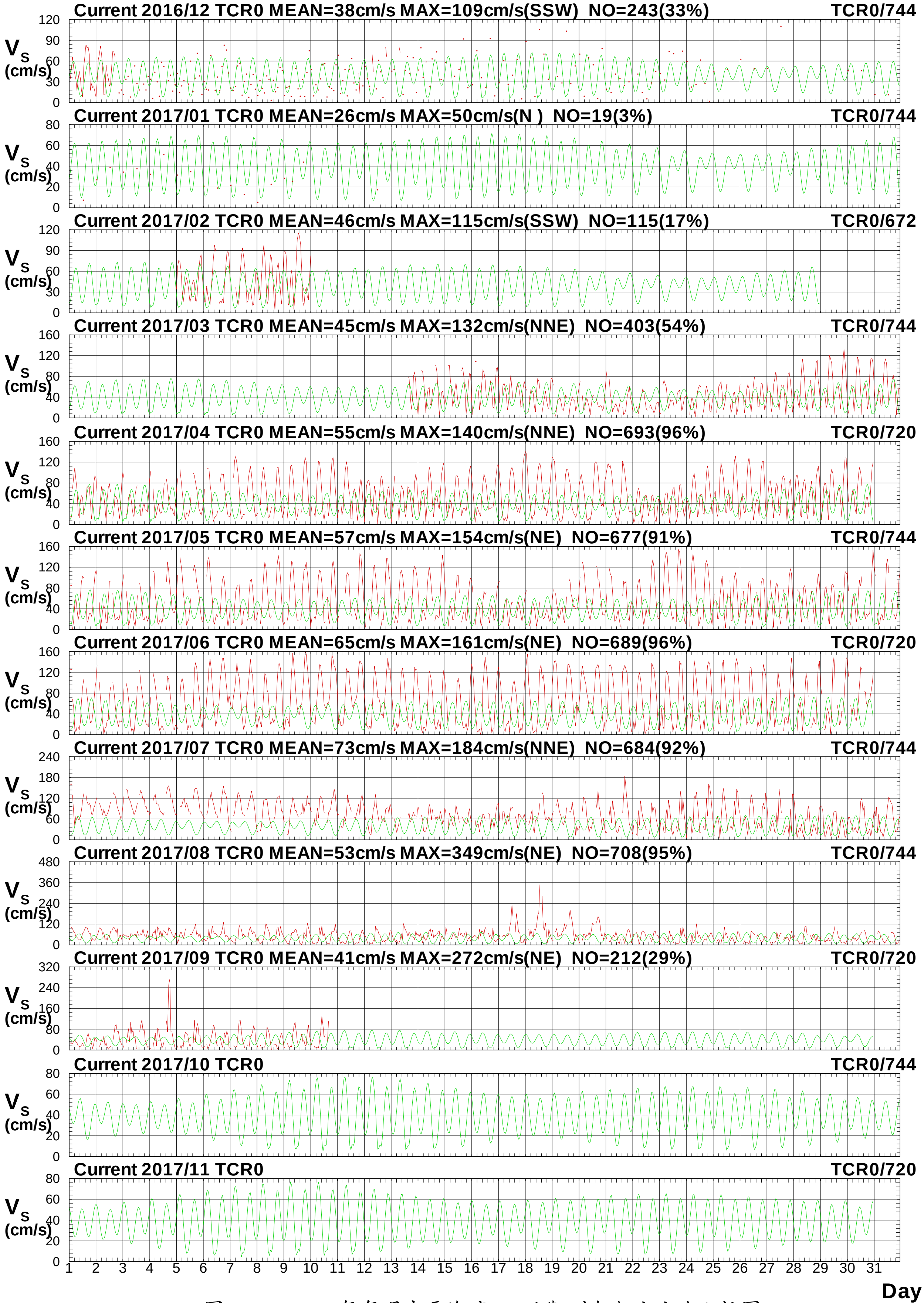

圖4.7a　2017年每月中雲海域 R 站觀測與潮流流速比較圖

C16CTCR0.1H0 C16CTCR0.1HD C171TCR0.1H0 C171TCR0.1HD C172TCR0.1H0 C172TCR0.1HD
C173TCR0.1H0 C173TCR0.1HD C174TCR0.1H0 C174TCR0.1HD C175TCR0.1H0 C175TCR0.1HD

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Current Direction in Tai-Chung Harbor of TCR0 at 2017

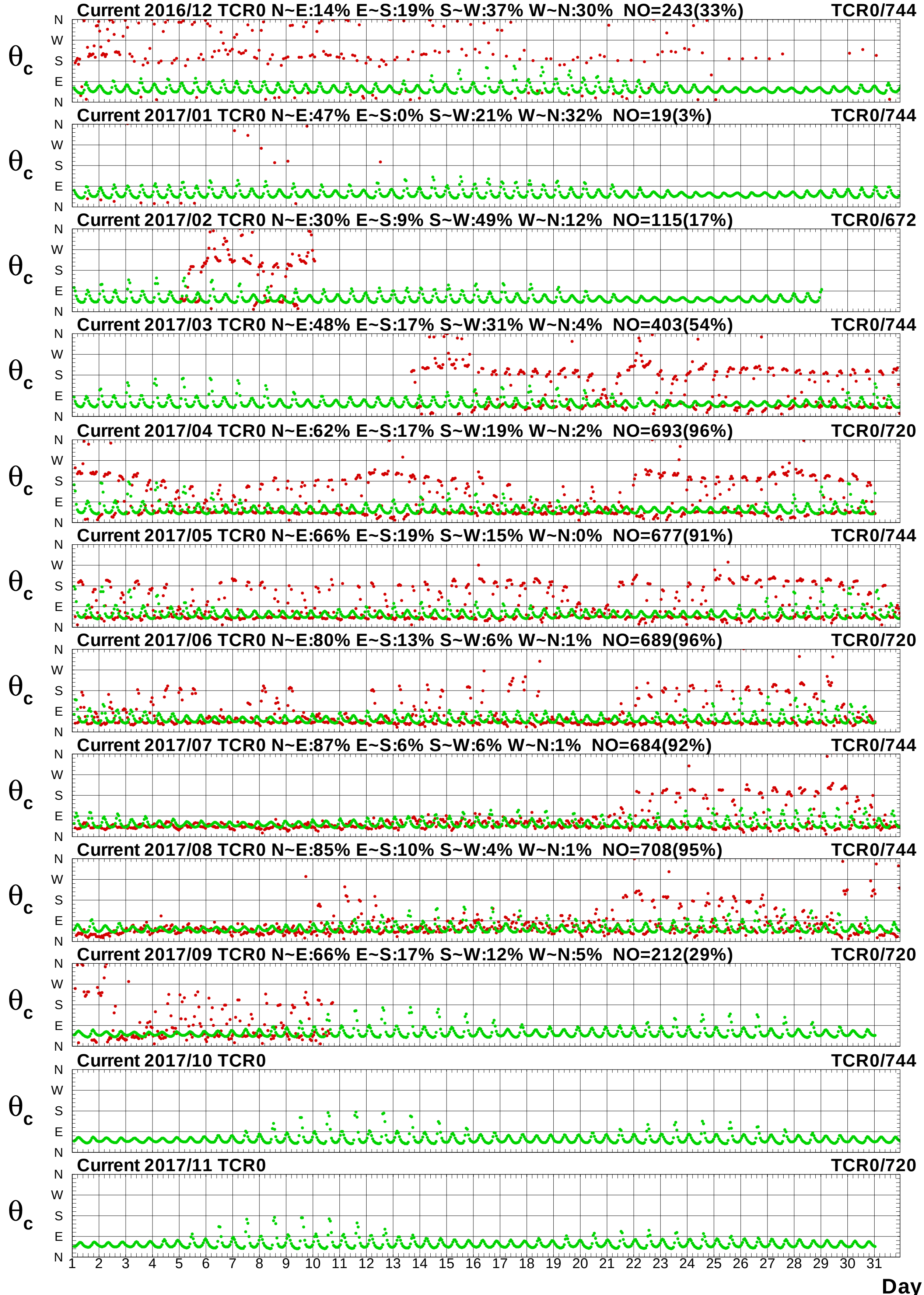

圖4.7b 2017年每月中雲海域 R 站觀測與潮流流向比較圖

C16CTCR0.1H0 C16CTCR0.1HD C171TCR0.1H0 C171TCR0.1HD C172TCR0.1H0 C172TCR0.1HD
C173TCR0.1H0 C173TCR0.1HD C174TCR0.1H0 C174TCR0.1HD C175TCR0.1H0 C175TCR0.1HD

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Current Speed in Tai-Chung Harbor of TCR0 at 2017

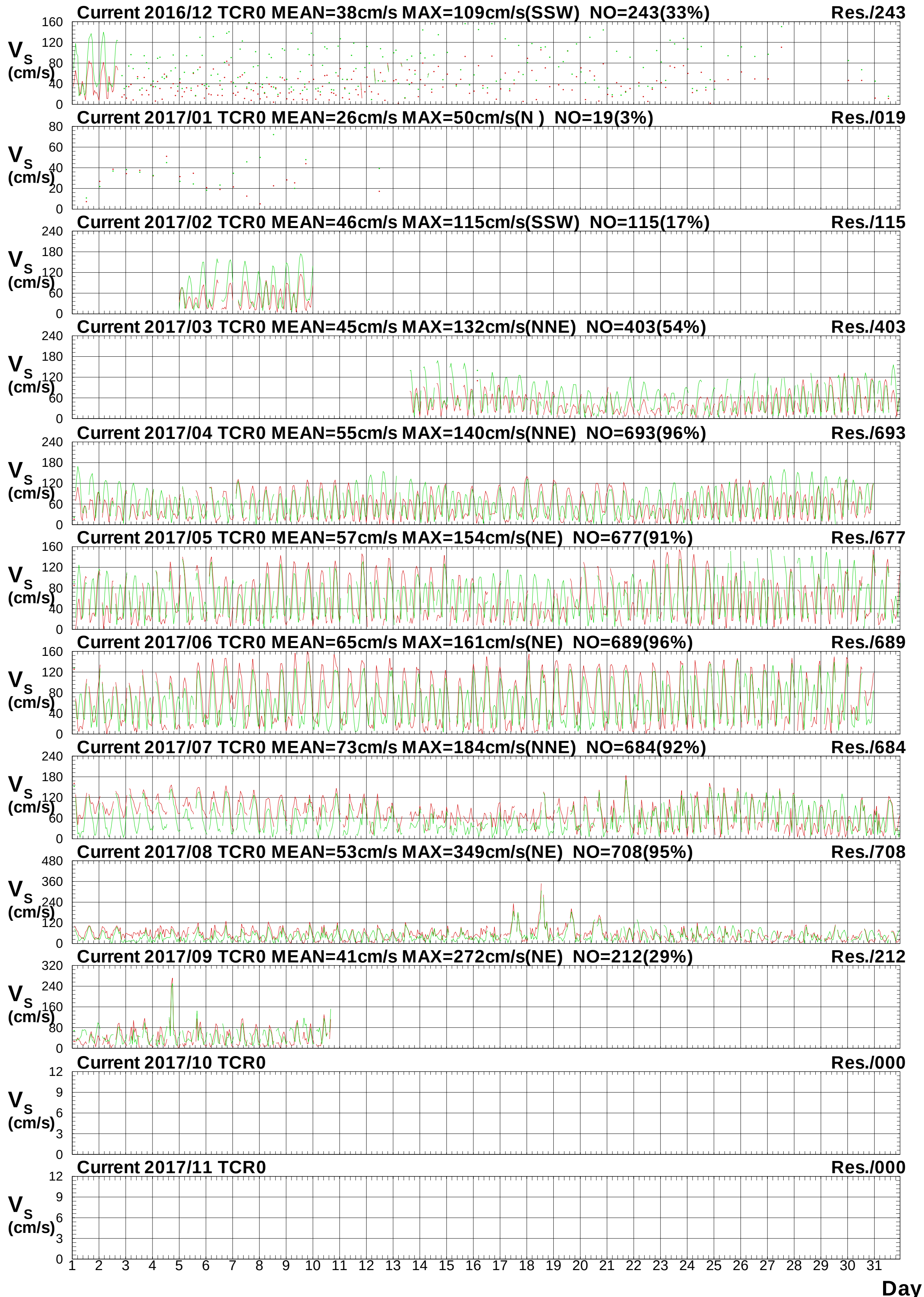

圖4.8a　2017年每月中雲海域 R 站觀測與殘流流速比較圖

C16CTCR0.1H0 C16CTCR0.1HR C171TCR0.1H0 C171TCR0.1HR C172TCR0.1H0 C172TCR0.1HR C173TCR0.1H0 C173TCR0.1HR C174TCR0.1H0 C174TCR0.1HR C175TCR0.1H0 C175TCR0.1HR	Institute of Harbor & Marine Technology

Current Direction in Tai-Chung Harbor of TCR0 at 2017

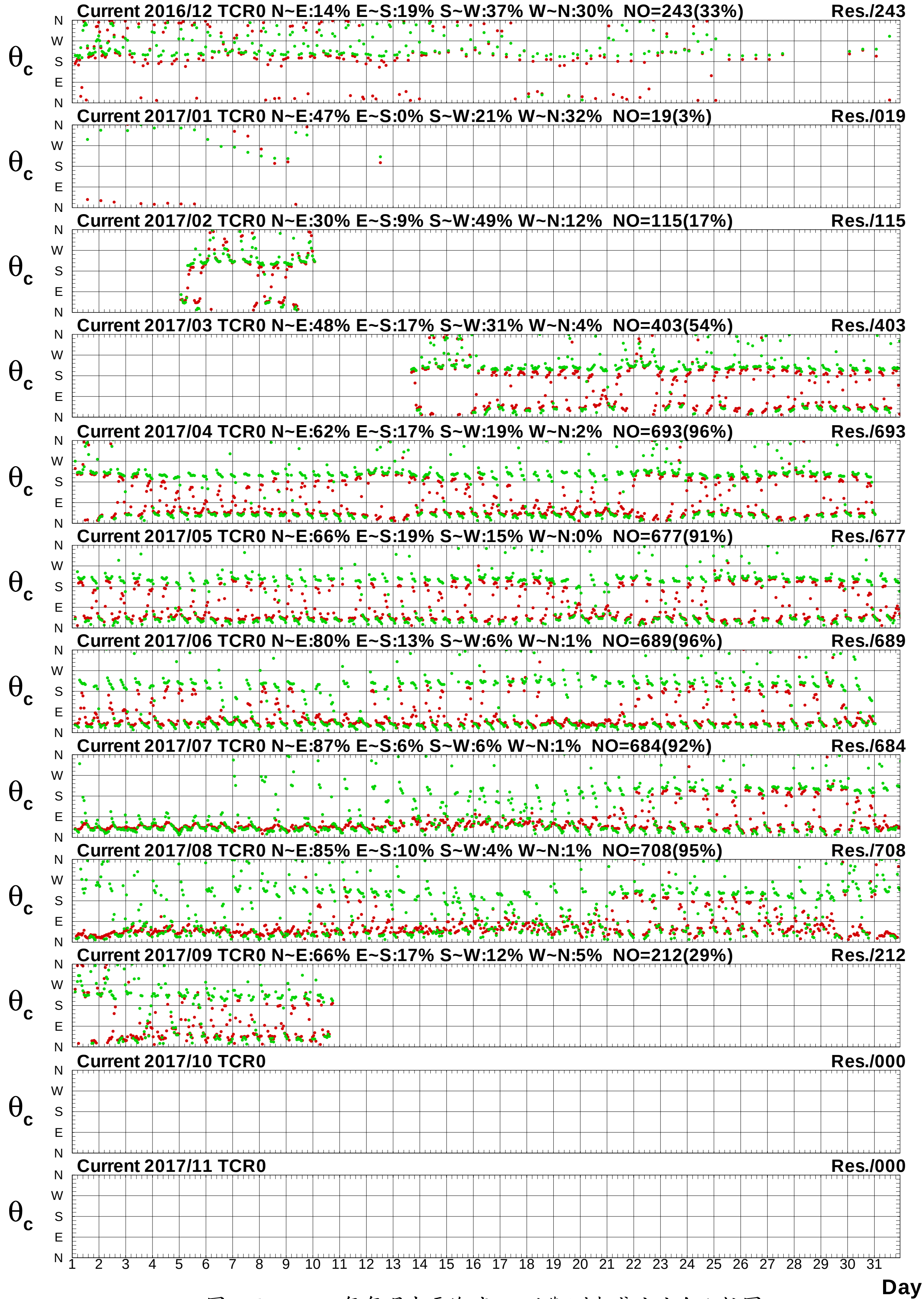

圖4.8b　2017年每月中雲海域 R 站觀測與殘流流向比較圖

C16CTCR0.1H0 C16CTCR0.1HR C171TCR0.1H0 C171TCR0.1HR C172TCR0.1H0 C172TCR0.1HR C173TCR0.1H0 C173TCR0.1HR C174TCR0.1H0 C174TCR0.1HR C175TCR0.1H0 C175TCR0.1HR	Institute of Harbor & Marine Technology

Current Speed in Tai-Chung Harbor of TCU0 at 2017

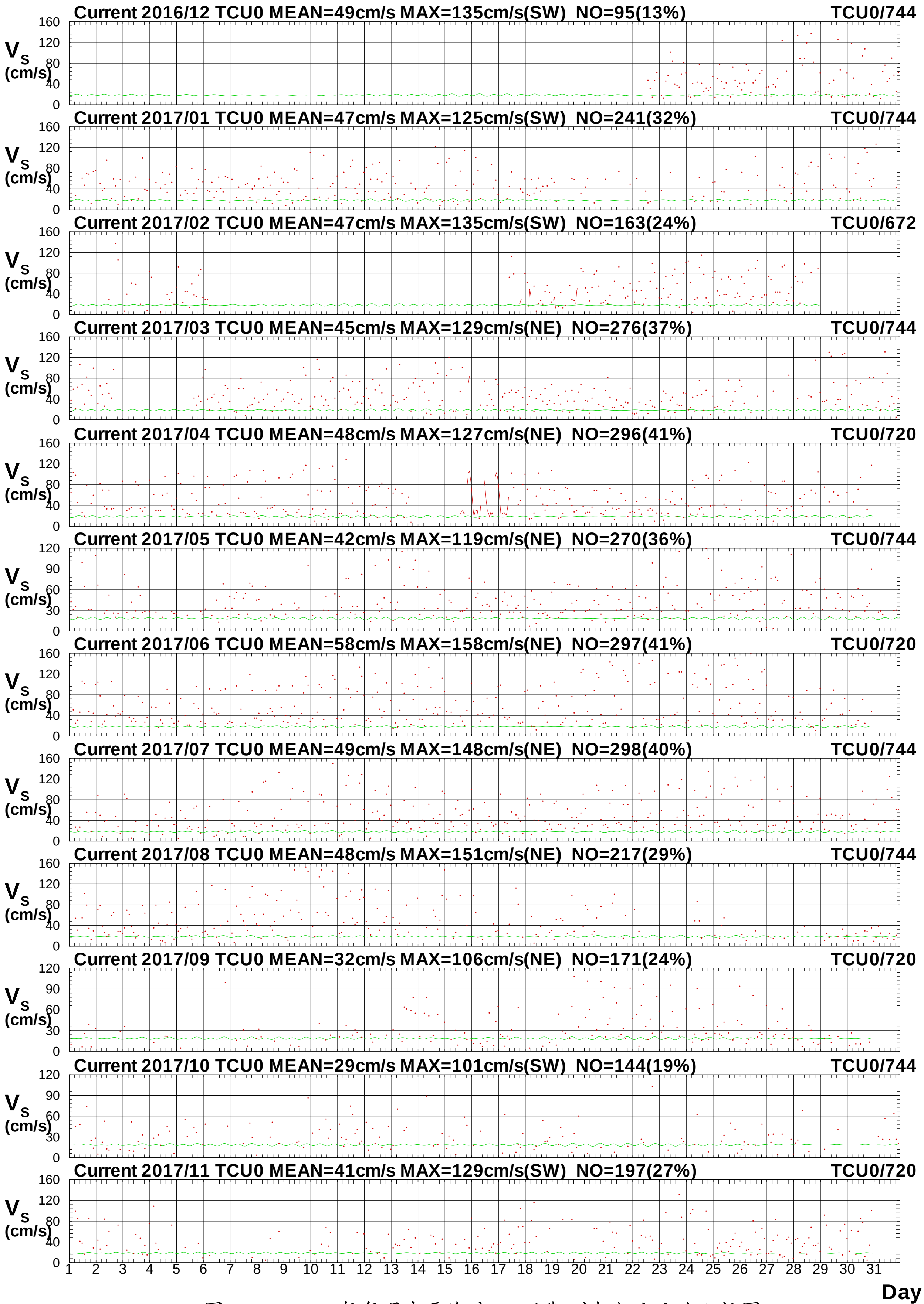

圖4.9a　2017年每月中雲海域 U 站觀測與潮流流速比較圖

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C173TCU0.1H0 C173TCU0.1HD C174TCU0.1H0 C174TCU0.1HD C175TCU0.1H0 C175TCU0.1HD

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Current Direction in Tai-Chung Harbor of TCU0 at 2017

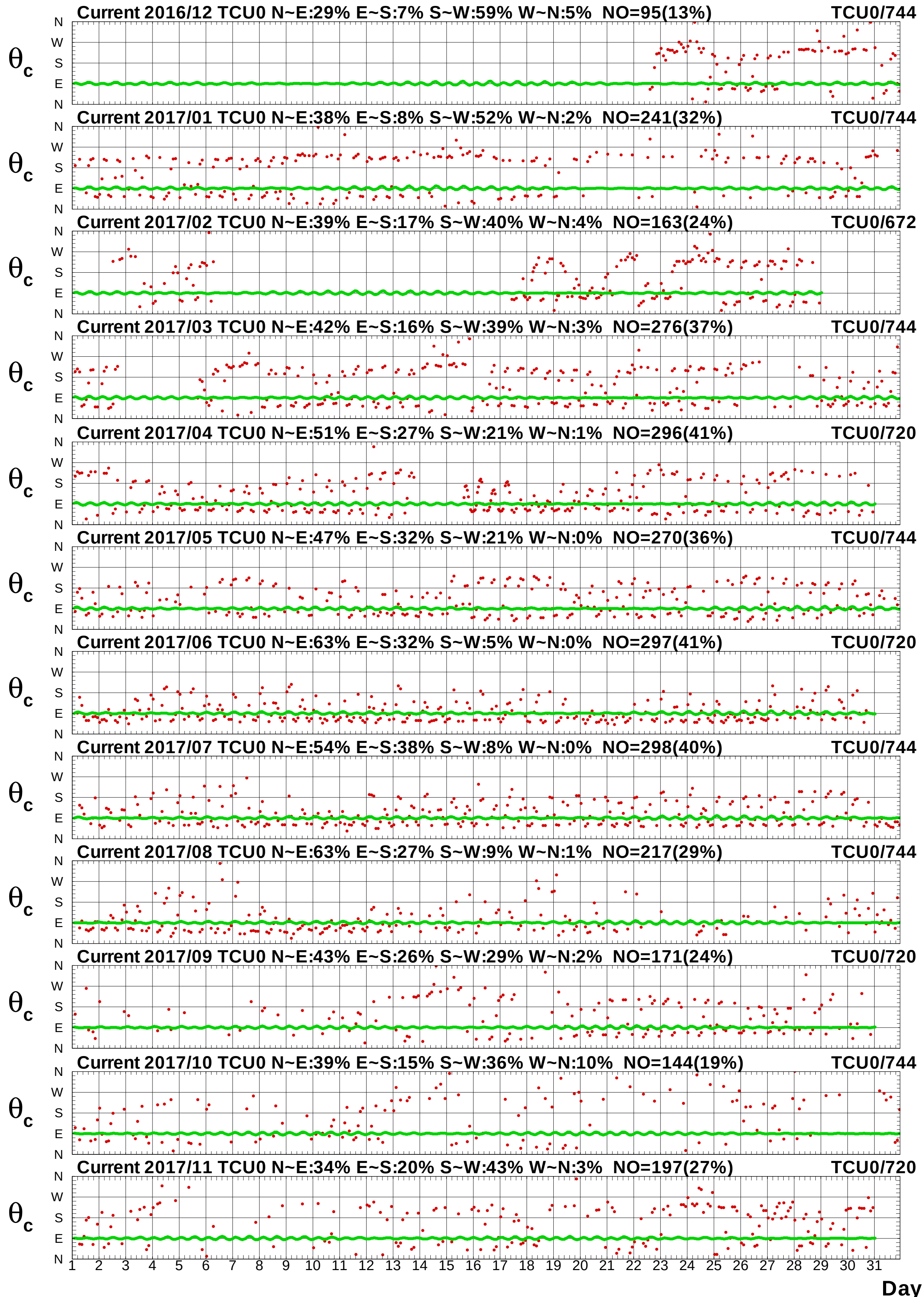


圖4.9b　2017年每月中雲海域 U 站觀測與潮流流向比較圖

C16CTCU0.1H0 C16CTCU0.1HD C171TCU0.1H0 C171TCU0.1HD C172TCU0.1H0 C172TCU0.1HD

C173TCU0.1H0 C173TCU0.1HD C174TCU0.1H0 C174TCU0.1HD C175TCU0.1H0 C175TCU0.1HD

Institute of Harbor & Marine Technology

Current Speed in Tai-Chung Harbor of TCU0 at 2017

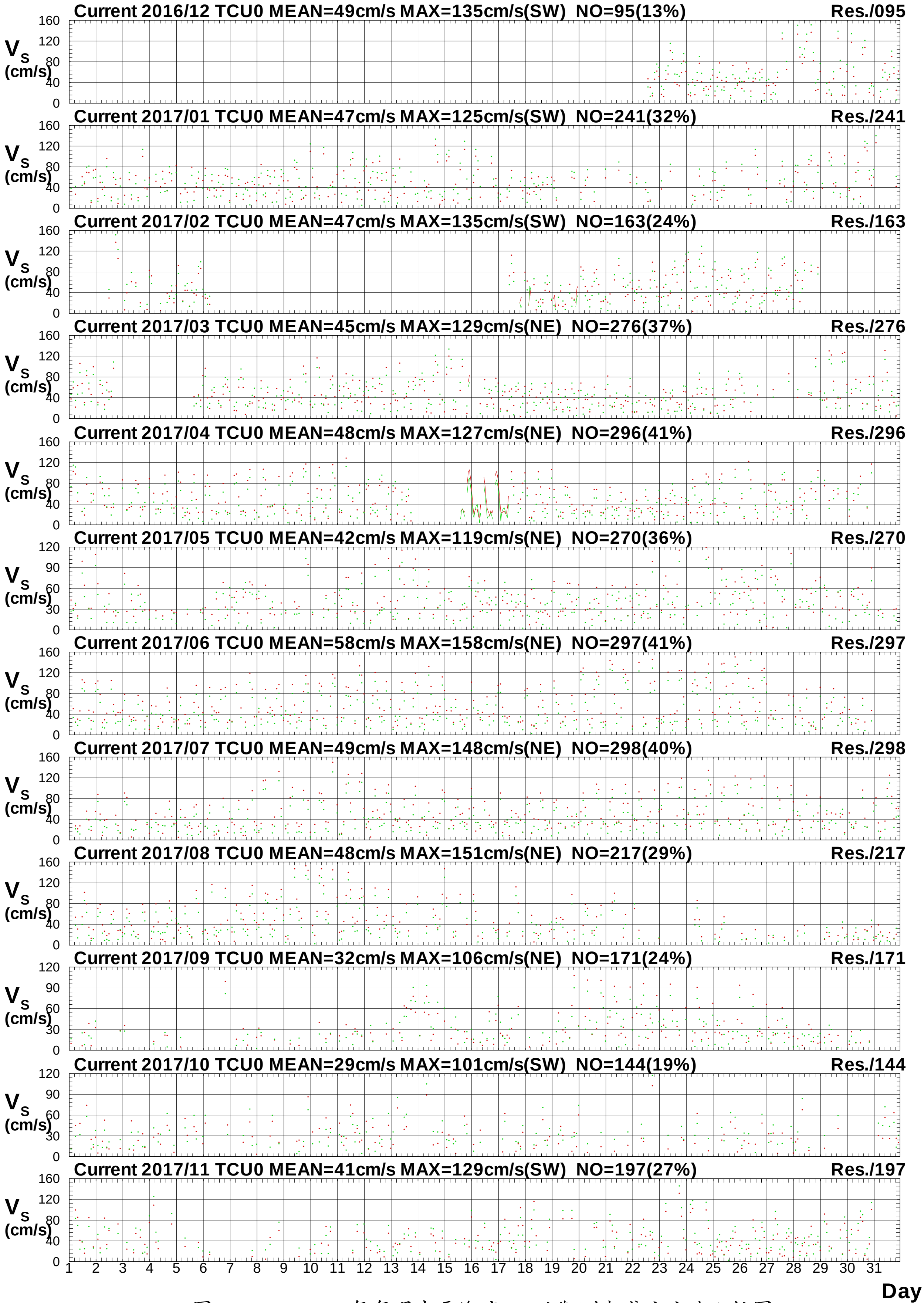


圖4.110a　2017年每月中雲海域 U 站觀測與殘流流速比較圖

C16CTCU0.1H0 C16CTCU0.1HR C171TCU0.1H0 C171TCU0.1HR C172TCU0.1H0 C172TCU0.1HR
C173TCU0.1H0 C173TCU0.1HR C174TCU0.1H0 C174TCU0.1HR C175TCU0.1H0 C175TCU0.1HR

Institute of Harbor & Marine Technology

Current Direction in Tai-Chung Harbor of TCU0 at 2017

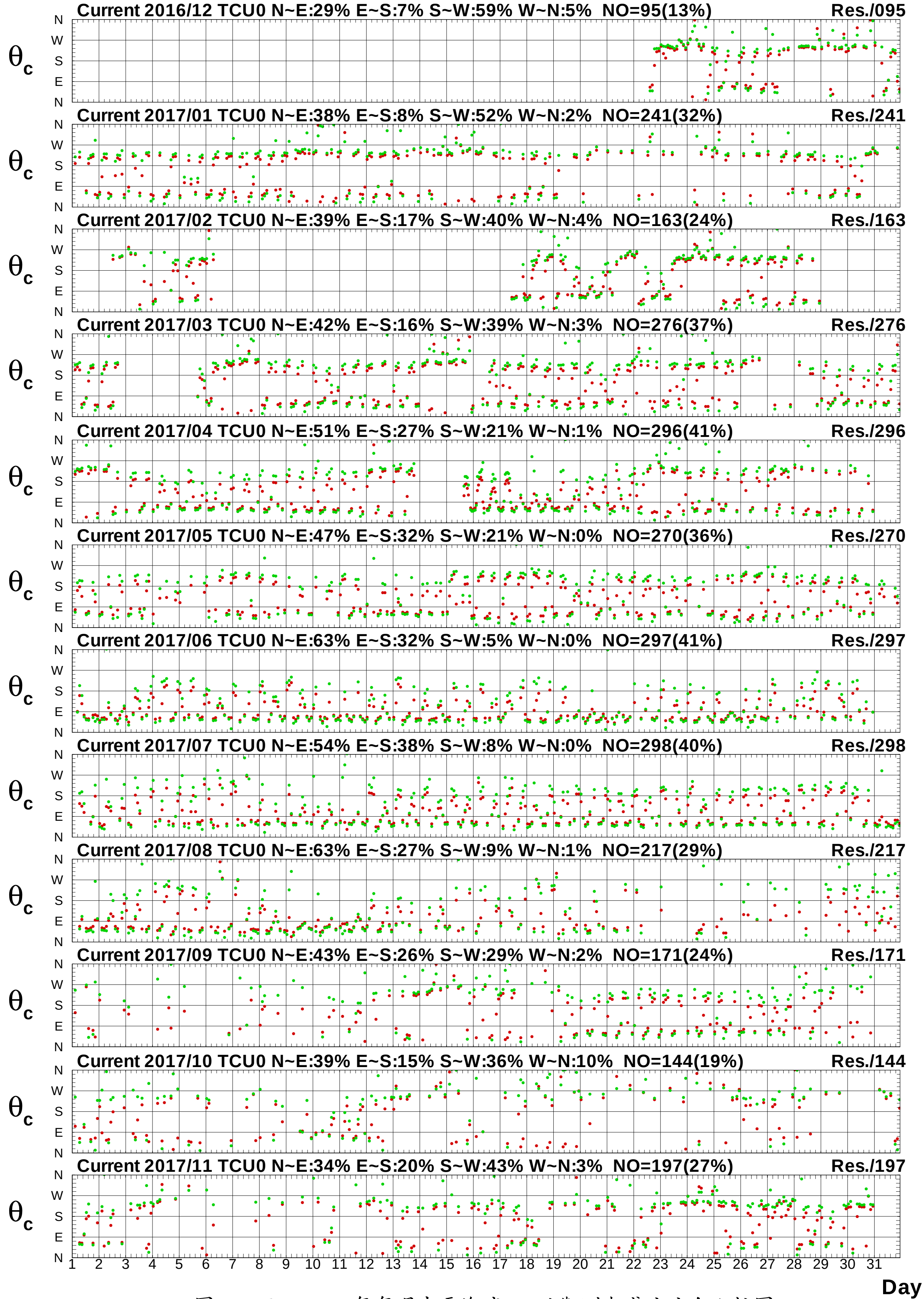


圖4.110b　2017年每月中雲海域 U 站觀測與殘流流向比較圖

C16CTCU0.1H0 C16CTCU0.1HR C171TCU0.1H0 C171TCU0.1HR C172TCU0.1H0 C172TCU0.1HR C173TCU0.1H0 C173TCU0.1HR C174TCU0.1H0 C174TCU0.1HR C175TCU0.1H0 C175TCU0.1HR	Institute of Harbor & Marine Technology

Distribution of Current Vectores

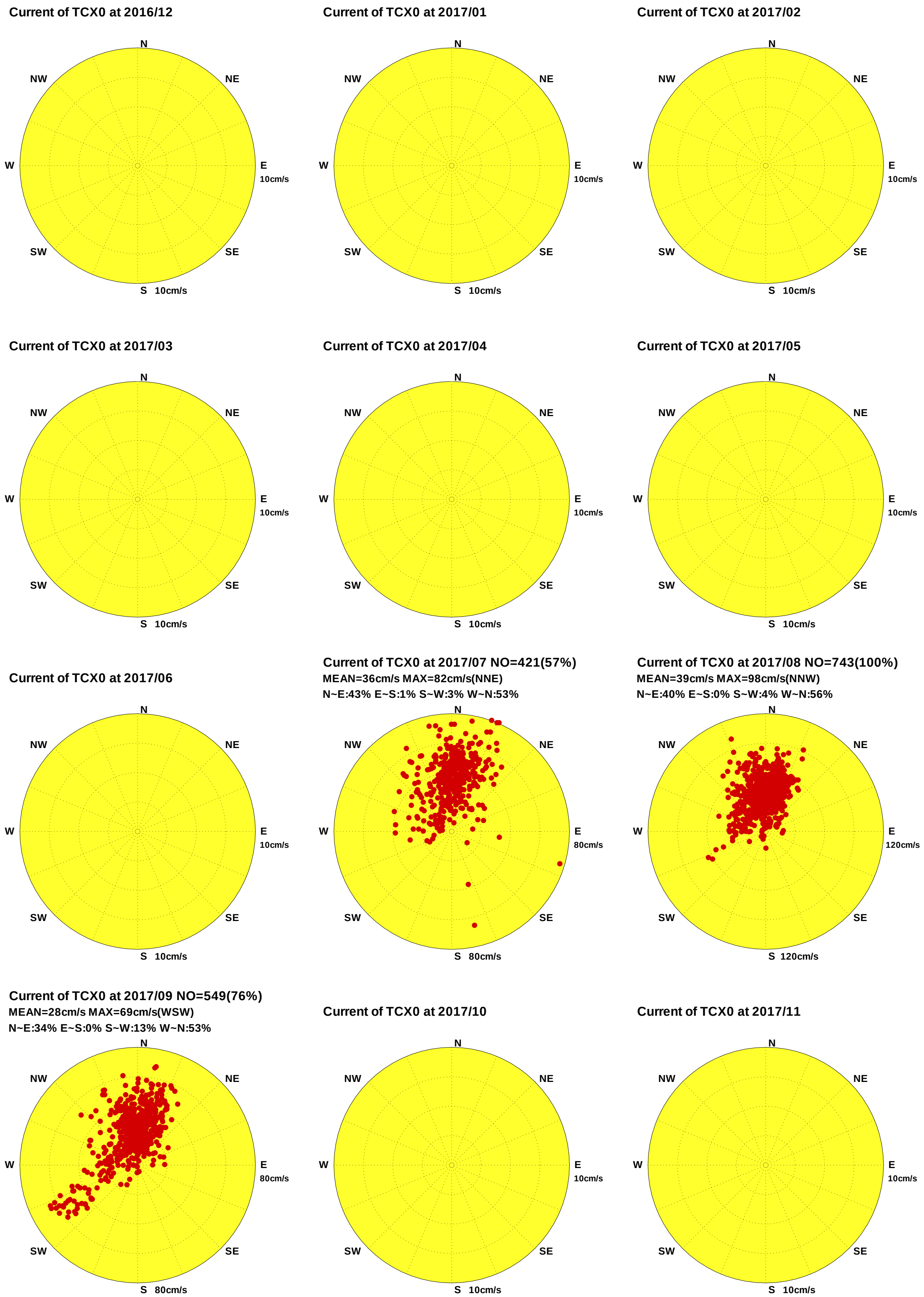


圖4.11a 2017年中雲海域每月測站 X 觀測海流向量分佈圖

C16CTCX0.1H0 C171TCX0.1H0 C172TCX0.1H0 C173TCX0.1H0 C174TCX0.1H0 C175TCX0.1H0
C176TCX0.1H0 C177TCX0.1H0 C178TCX0.1H0 C179TCX0.1H0 C17ATCX0.1H0 C17BTCX0.1H0

Institute of Harbor & Marine Technology

Progressive Vector Diagram of Current

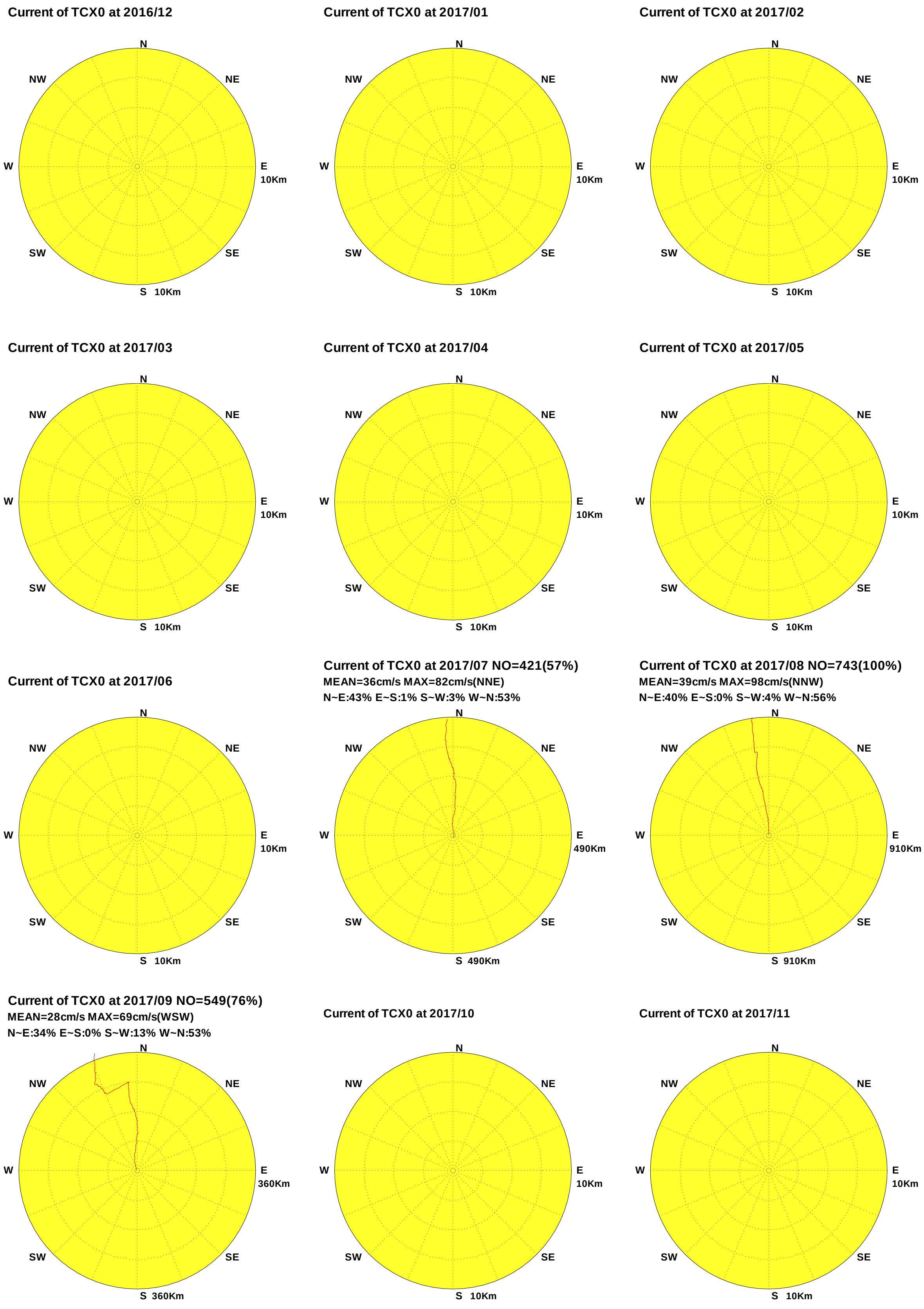


圖4.11b 2017年中雲海域每月測站 X 觀測海流向量行進圖

C16CTCX0.1H0 C171TCX0.1H0 C172TCX0.1H0 C173TCX0.1H0 C174TCX0.1H0 C175TCX0.1H0 C176TCX0.1H0 C177TCX0.1H0 C178TCX0.1H0 C179TCX0.1H0 C17ATCX0.1H0 C17BTCX0.1H0	Institute of Harbor & Marine Technology

Distribution of Current Vectores

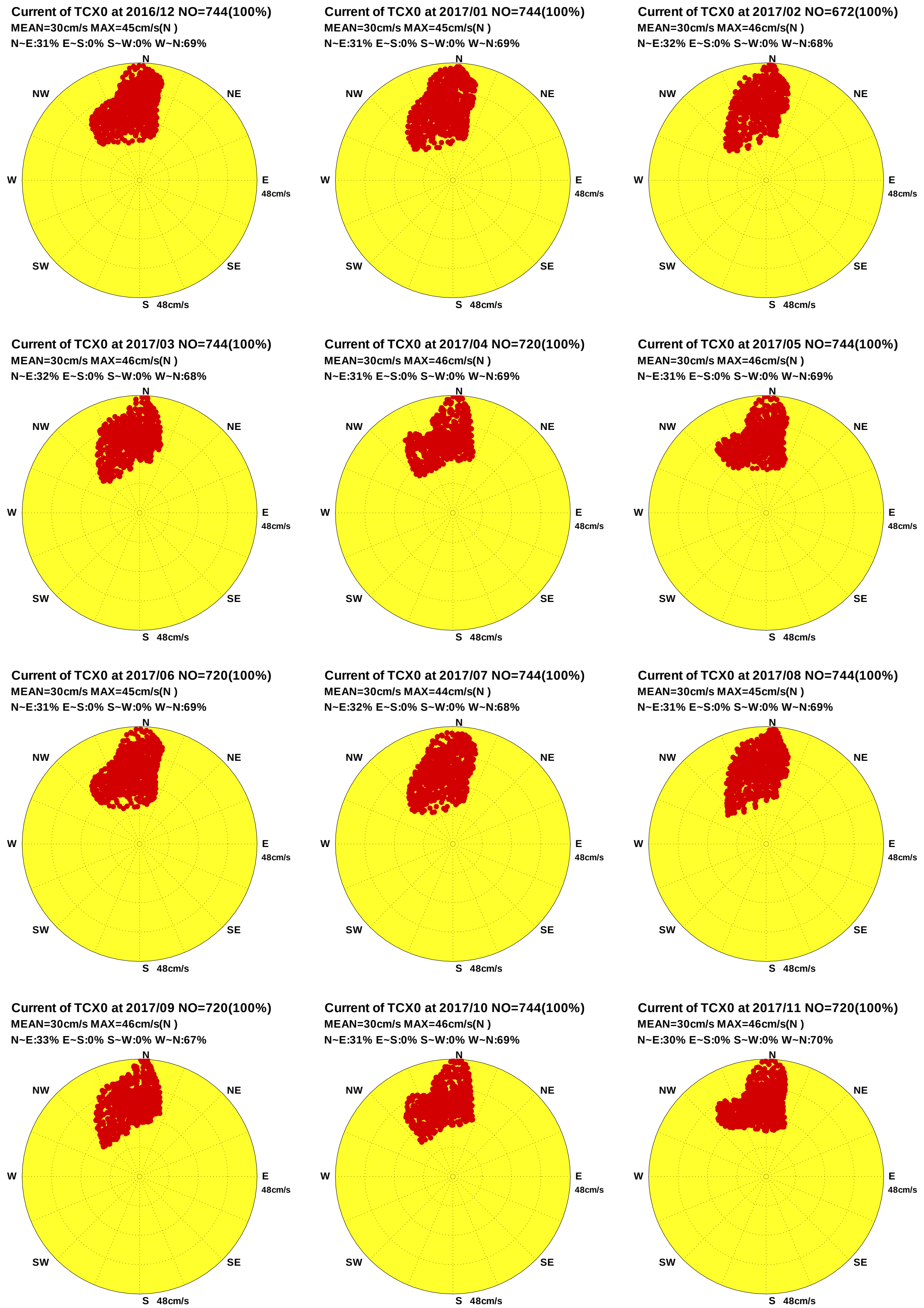


圖4.11c 2017年中雲海域每月測站 X 計算潮流向量分佈圖

C16CTCX0.1HD C171TCX0.1HD C172TCX0.1HD C173TCX0.1HD C174TCX0.1HD C175TCX0.1HD C176TCX0.1HD C177TCX0.1HD C178TCX0.1HD C179TCX0.1HD C17ATCX0.1HD C17BTCX0.1HD	Institute of Harbor & Marine Technology

Progressive Vector Diagram of Current

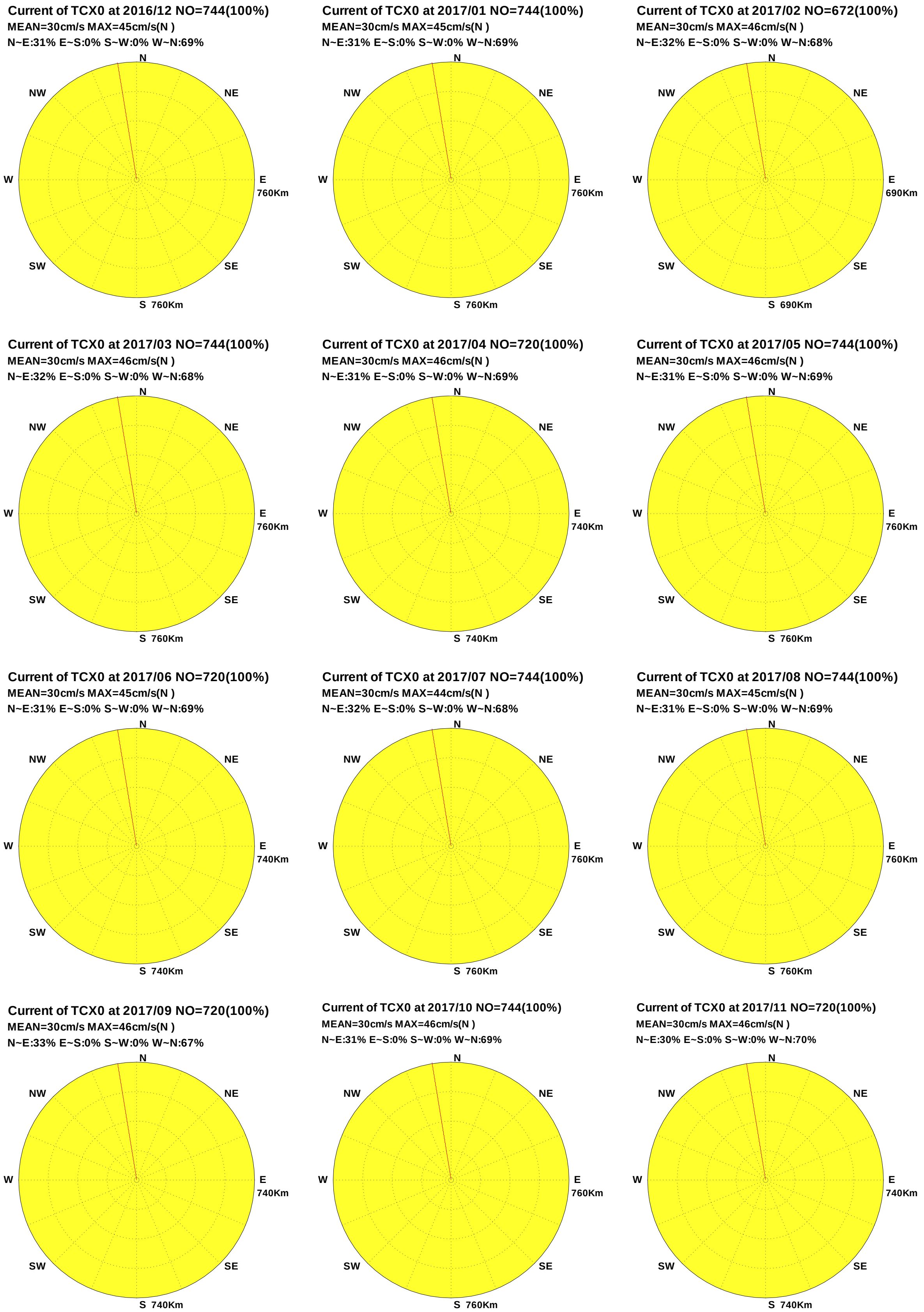


圖4.11d 2017年中雲海域每月測站 X 計算潮流向量行進圖

C16CTCX0.1HD C171TCX0.1HD C172TCX0.1HD C173TCX0.1HD C174TCX0.1HD C175TCX0.1HD
C176TCX0.1HD C177TCX0.1HD C178TCX0.1HD C179TCX0.1HD C17ATCX0.1HD C17BTCX0.1HD

Institute of Harbor & Marine Technology

Distribution of Current Vectores

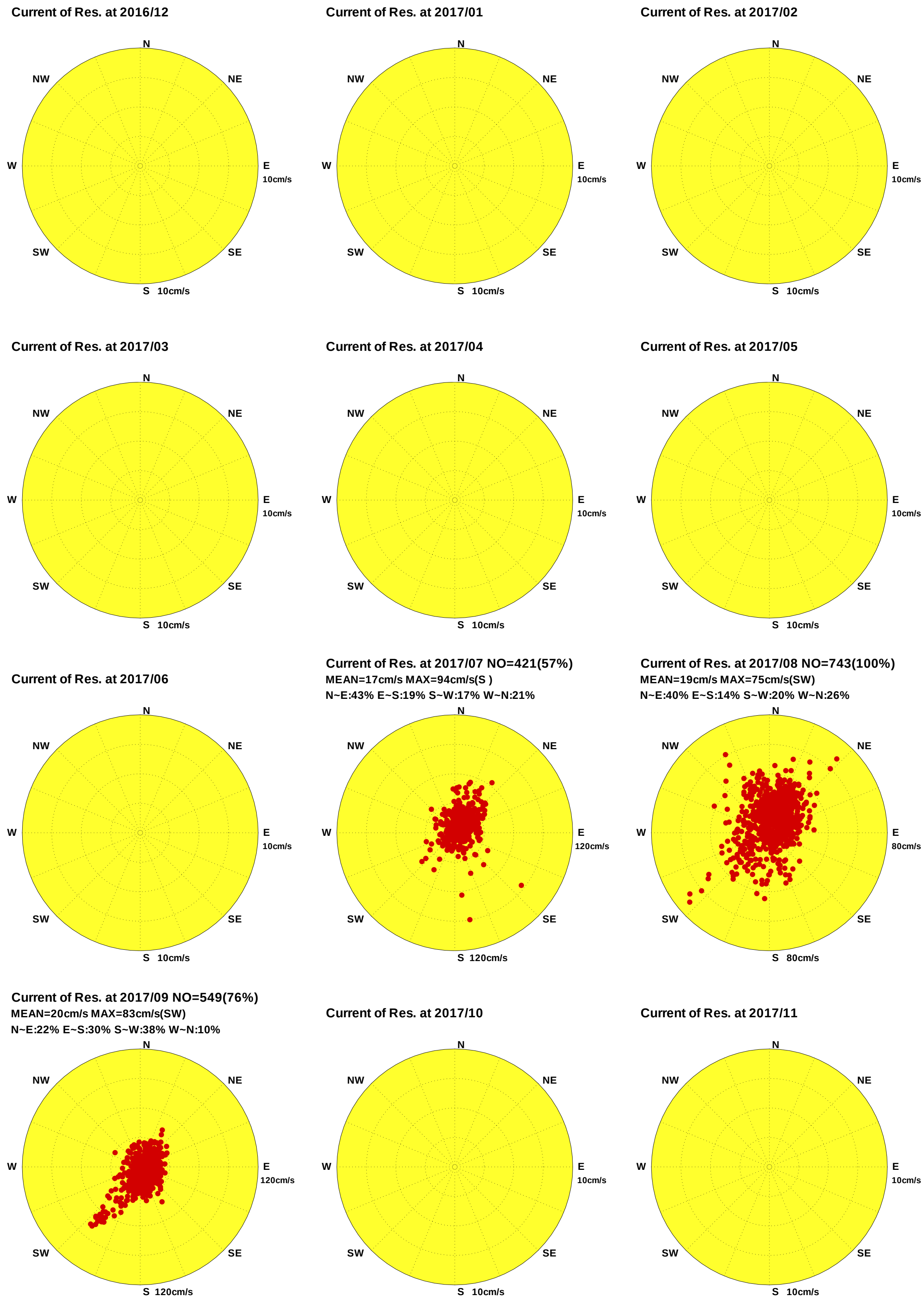


圖4.11e 2017年中雲海域每月測站 X 計算殘流向量分佈圖

C16CTCX0.1HR C171TCX0.1HR C172TCX0.1HR C173TCX0.1HR C174TCX0.1HR C175TCX0.1HR
C176TCX0.1HR C177TCX0.1HR C178TCX0.1HR C179TCX0.1HR C17ATCX0.1HR C17BTCX0.1HR

Institute of Harbor & Marine Technology

Progressive Vector Diagram of Current

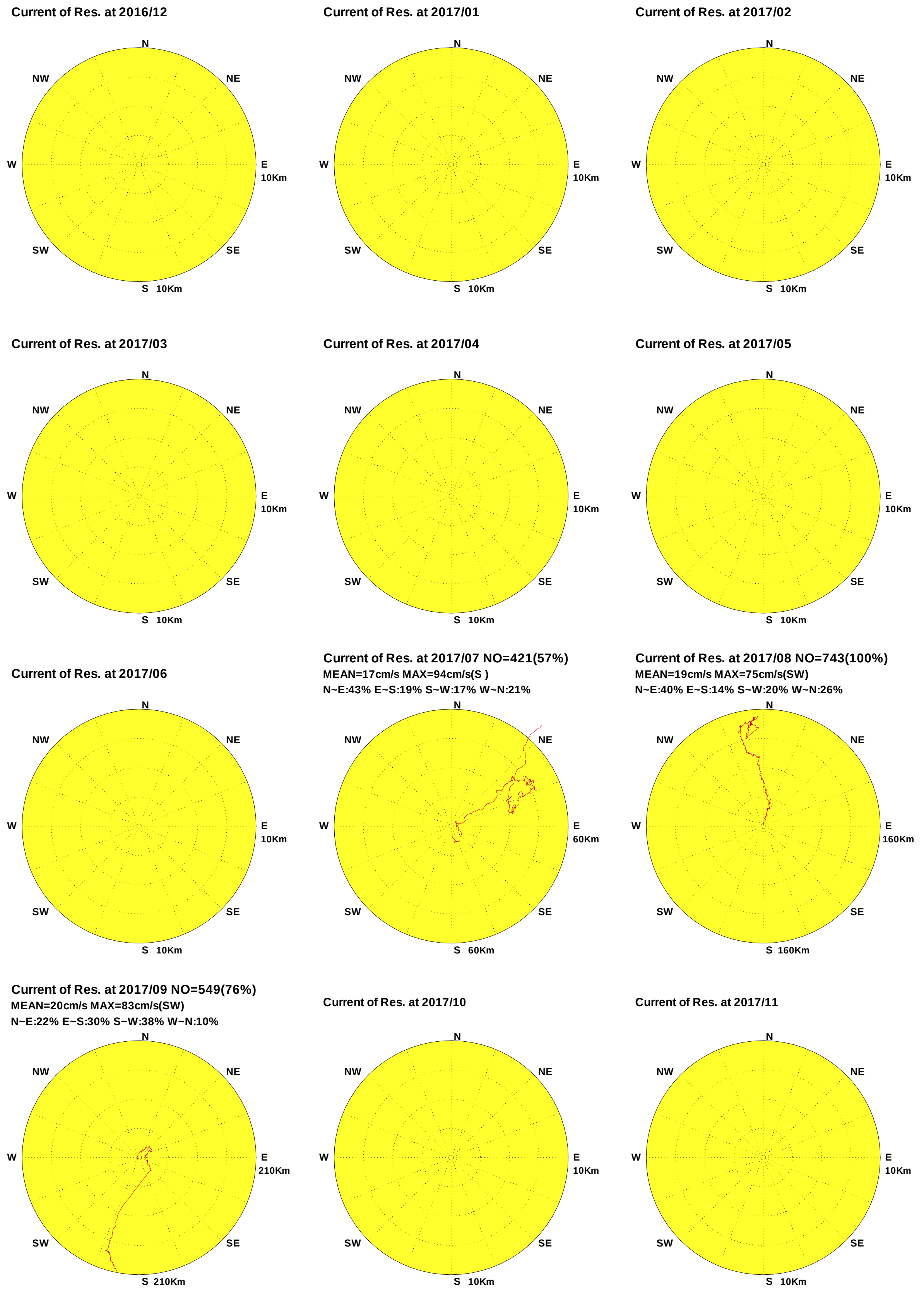


圖4.11f 2017年中雲海域每月測站 X 計算殘流向量行進圖

C16CTCX0.1HR C171TCX0.1HR C172TCX0.1HR C173TCX0.1HR C174TCX0.1HR C175TCX0.1HR
C176TCX0.1HR C177TCX0.1HR C178TCX0.1HR C179TCX0.1HR C17ATCX0.1HR C17BTCX0.1HR

Institute of Harbor & Marine Technology

Distribution of Current Vectores

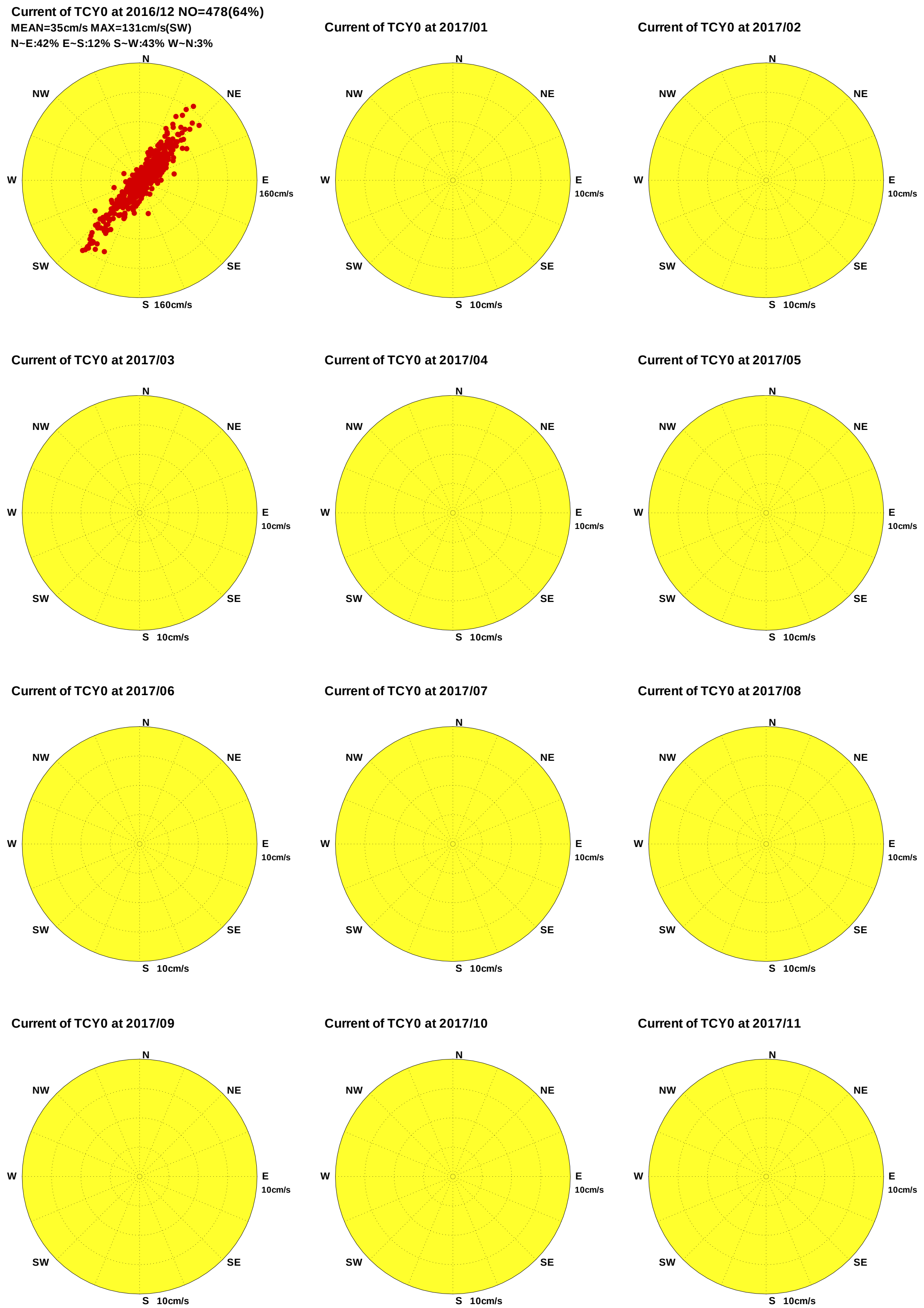


圖4.12a 2017年中雲海域每月測站 Y 觀測海流向量分佈圖

C16CTCY0.1H0 C171TCY0.1H0 C172TCY0.1H0 C173TCY0.1H0 C174TCY0.1H0 C175TCY0.1H0
C176TCY0.1H0 C177TCY0.1H0 C178TCY0.1H0 C179TCY0.1H0 C17ATCY0.1H0 C17BTCY0.1H0

Institute of Harbor & Marine Technology

Progressive Vector Diagram of Current

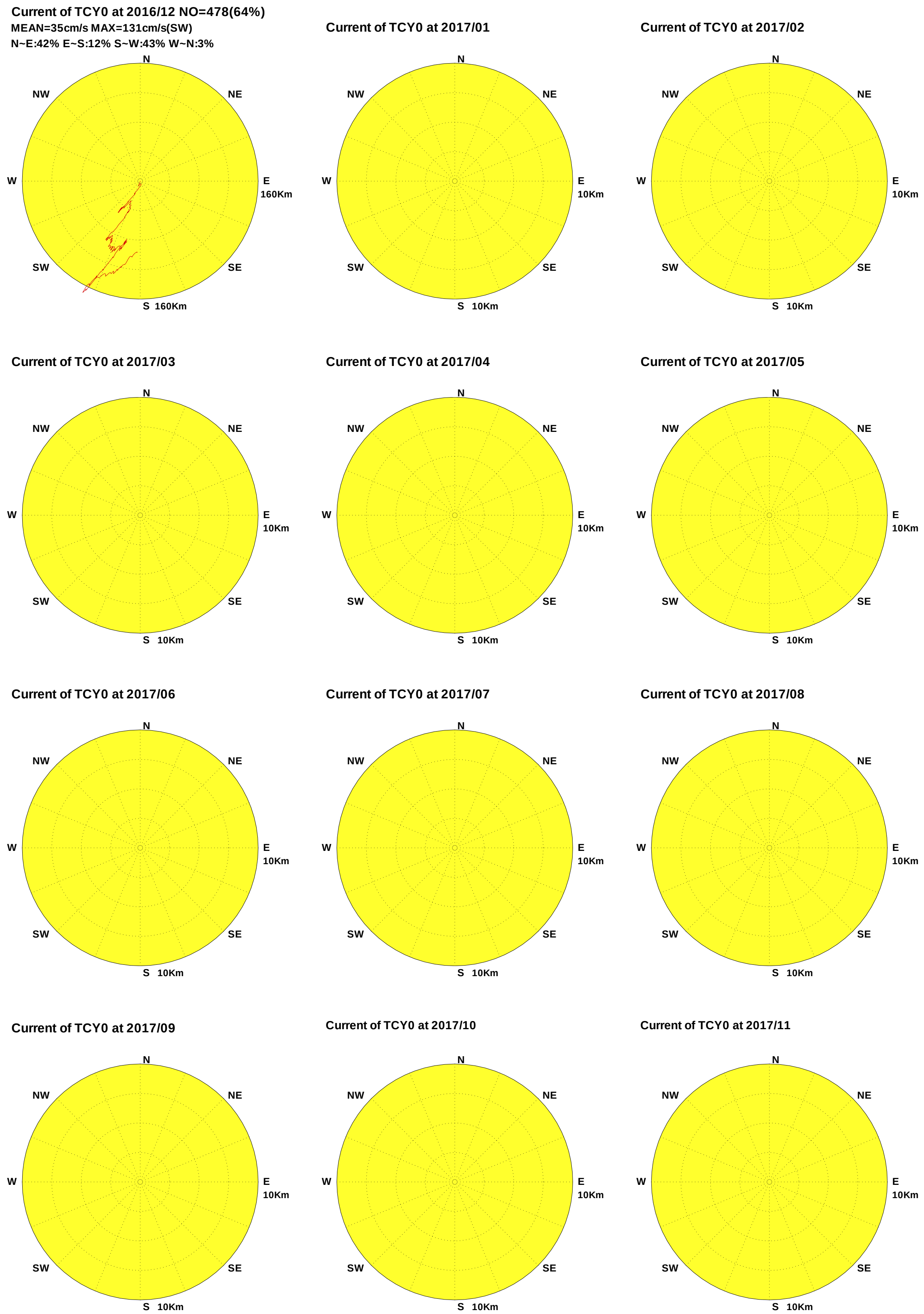
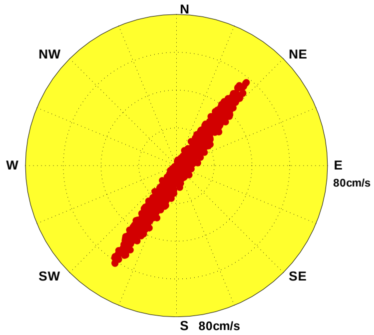


圖4.12b 2017年中雲海域每月測站 Y 觀測海流向量行進圖

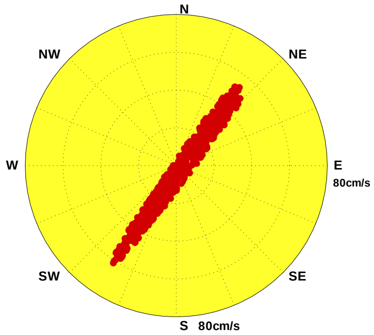
C16CTCY0.1H0 C171TCY0.1H0 C172TCY0.1H0 C173TCY0.1H0 C174TCY0.1H0 C175TCY0.1H0 C176TCY0.1H0 C177TCY0.1H0 C178TCY0.1H0 C179TCY0.1H0 C17ATCY0.1H0 C17BTCY0.1H0	Institute of Harbor & Marine Technology

Distribution of Current Vectores

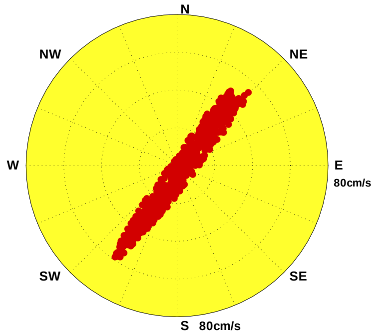
Current of TCY0 at 2016/12 NO=744(100%)
MEAN=27cm/s MAX=65cm/s(SSW)
N~E:45% E~S:5% S~W:50% W~N:0%



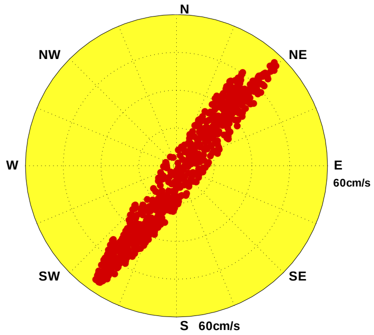
Current of TCY0 at 2017/01 NO=744(100%)
MEAN=27cm/s MAX=65cm/s(SSW)
N~E:44% E~S:5% S~W:51% W~N:0%



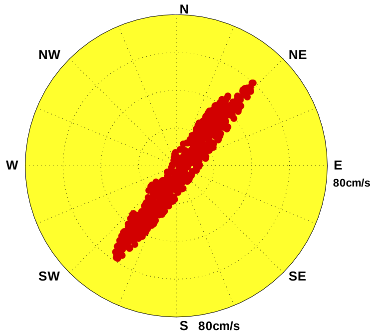
Current of TCY0 at 2017/02 NO=672(100%)
MEAN=27cm/s MAX=62cm/s(SW)
N~E:44% E~S:7% S~W:48% W~N:1%



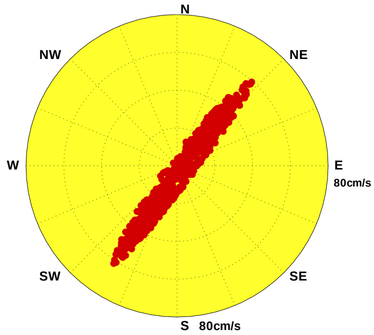
Current of TCY0 at 2017/03 NO=744(100%)
MEAN=27cm/s MAX=58cm/s(SW)
N~E:43% E~S:7% S~W:49% W~N:1%



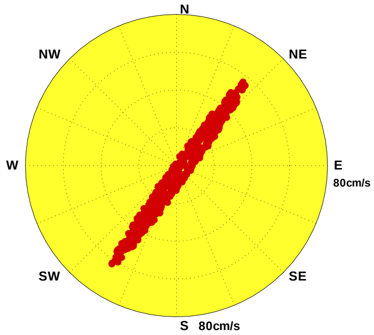
Current of TCY0 at 2017/04 NO=720(100%)
MEAN=27cm/s MAX=62cm/s(SSW)
N~E:44% E~S:5% S~W:50% W~N:1%



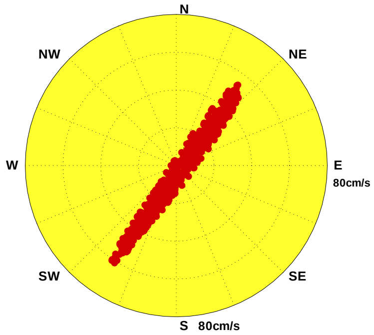
Current of TCY0 at 2017/05 NO=744(100%)
MEAN=27cm/s MAX=65cm/s(SSW)
N~E:43% E~S:7% S~W:50% W~N:0%



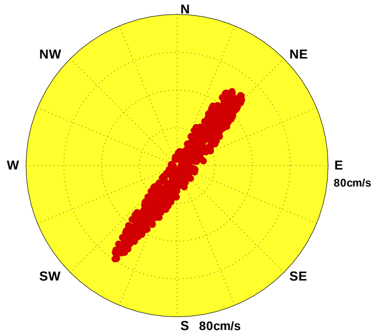
Current of TCY0 at 2017/06 NO=720(100%)
MEAN=27cm/s MAX=66cm/s(SSW)
N~E:45% E~S:5% S~W:50% W~N:0%



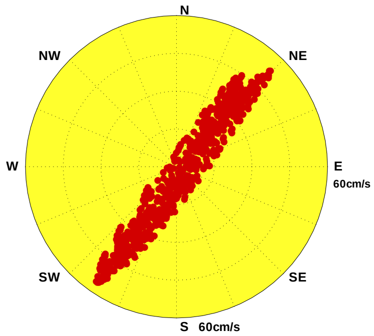
Current of TCY0 at 2017/07 NO=744(100%)
MEAN=26cm/s MAX=65cm/s(SSW)
N~E:43% E~S:7% S~W:50% W~N:0%



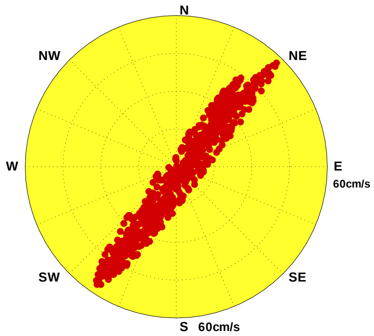
Current of TCY0 at 2017/08 NO=744(100%)
MEAN=26cm/s MAX=63cm/s(SW)
N~E:43% E~S:7% S~W:49% W~N:1%



Current of TCY0 at 2017/09 NO=720(100%)
MEAN=27cm/s MAX=58cm/s(SW)
N~E:43% E~S:6% S~W:50% W~N:1%



Current of TCY0 at 2017/10 NO=744(100%)
MEAN=26cm/s MAX=59cm/s(SW)
N~E:43% E~S:7% S~W:50% W~N:0%



Current of TCY0 at 2017/11 NO=720(100%)
MEAN=27cm/s MAX=63cm/s(SSW)
N~E:44% E~S:5% S~W:50% W~N:1%

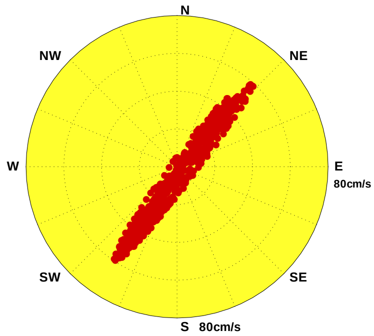


圖4.12c 2017年中雲海域每月測站 Y 計算潮流向量分佈圖

C16CTCY0.1HD C171TCY0.1HD C172TCY0.1HD C173TCY0.1HD C174TCY0.1HD C175TCY0.1HD C176TCY0.1HD C177TCY0.1HD C178TCY0.1HD C179TCY0.1HD C17ATCY0.1HD C17BTCY0.1HD	Institute of Harbor & Marine Technology

Progressive Vector Diagram of Current

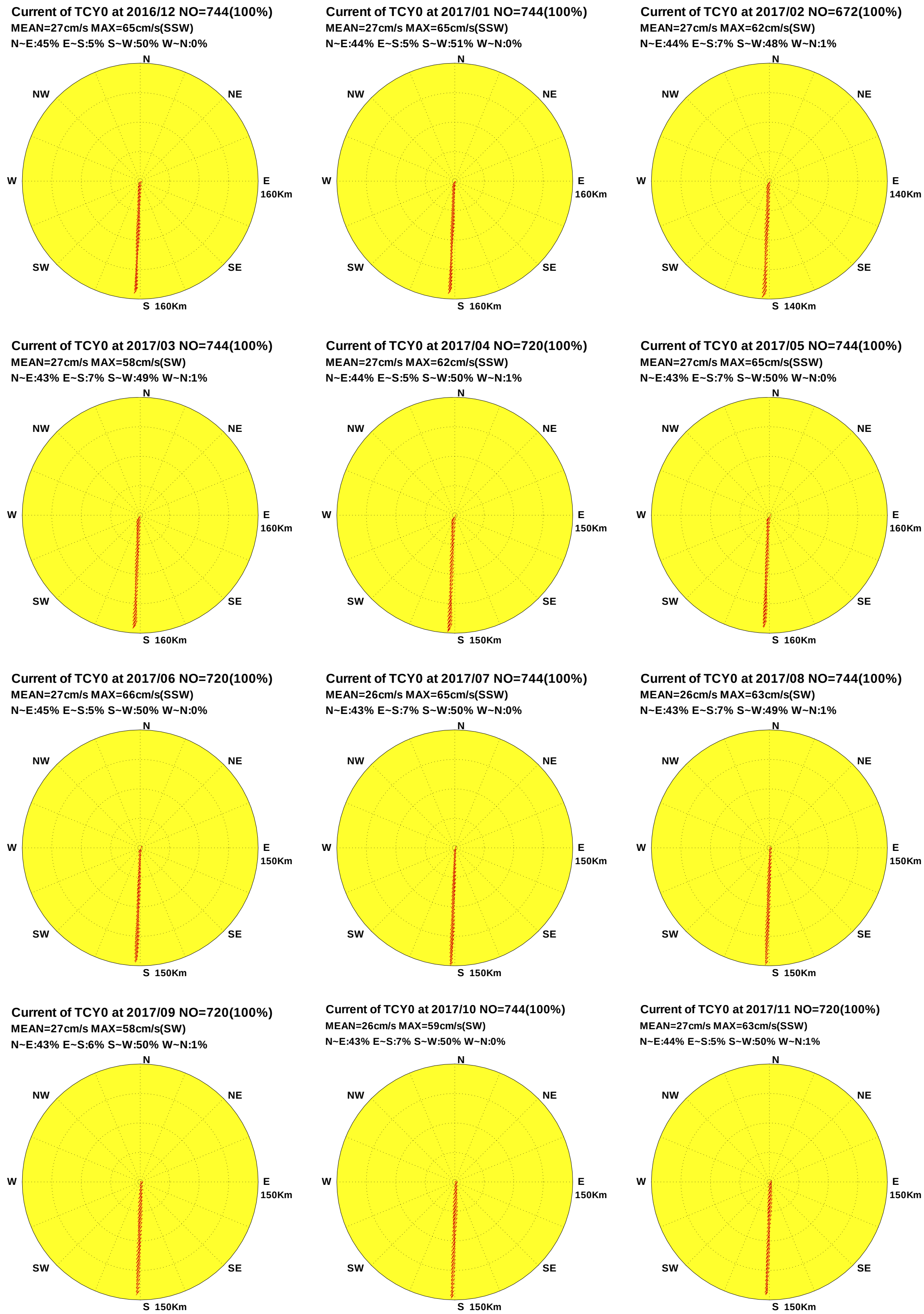


圖4.12d 2017年中雲海域每月測站 Y 計算潮流向量行進圖

C16CTCY0.1HD C171TCY0.1HD C172TCY0.1HD C173TCY0.1HD C174TCY0.1HD C175TCY0.1HD
C176TCY0.1HD C177TCY0.1HD C178TCY0.1HD C179TCY0.1HD C17ATCY0.1HD C17BTCY0.1HD

Institute of Harbor & Marine Technology

Distribution of Current Vectores

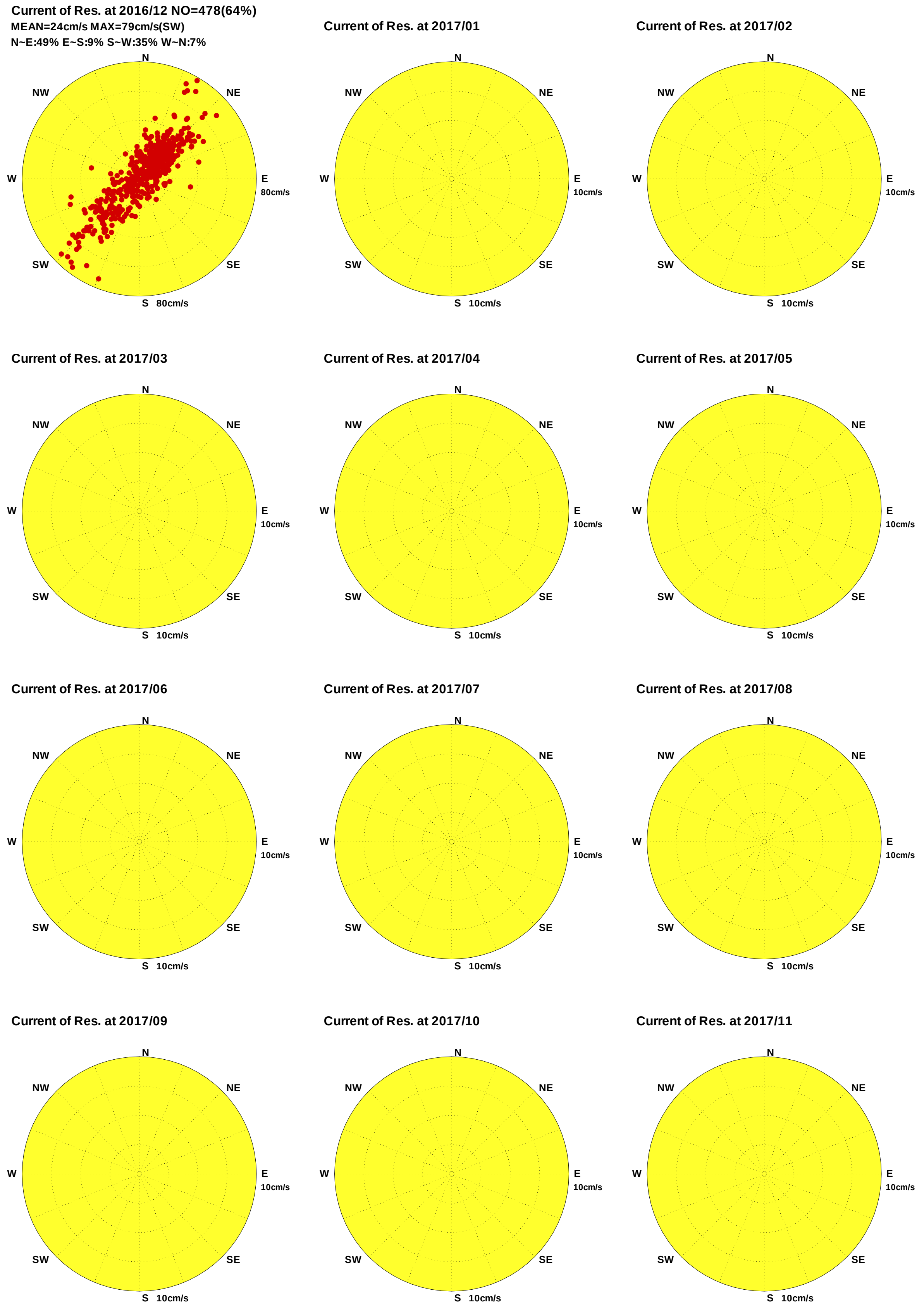


圖4.12e 2017年中雲海域每月測站 Y 計算殘流向量分佈圖

C16CTCY0.1HR C171TCY0.1HR C172TCY0.1HR C173TCY0.1HR C174TCY0.1HR C175TCY0.1HR C176TCY0.1HR C177TCY0.1HR C178TCY0.1HR C179TCY0.1HR C17ATCY0.1HR C17BTCY0.1HR	Institute of Harbor & Marine Technology

Progressive Vector Diagram of Current

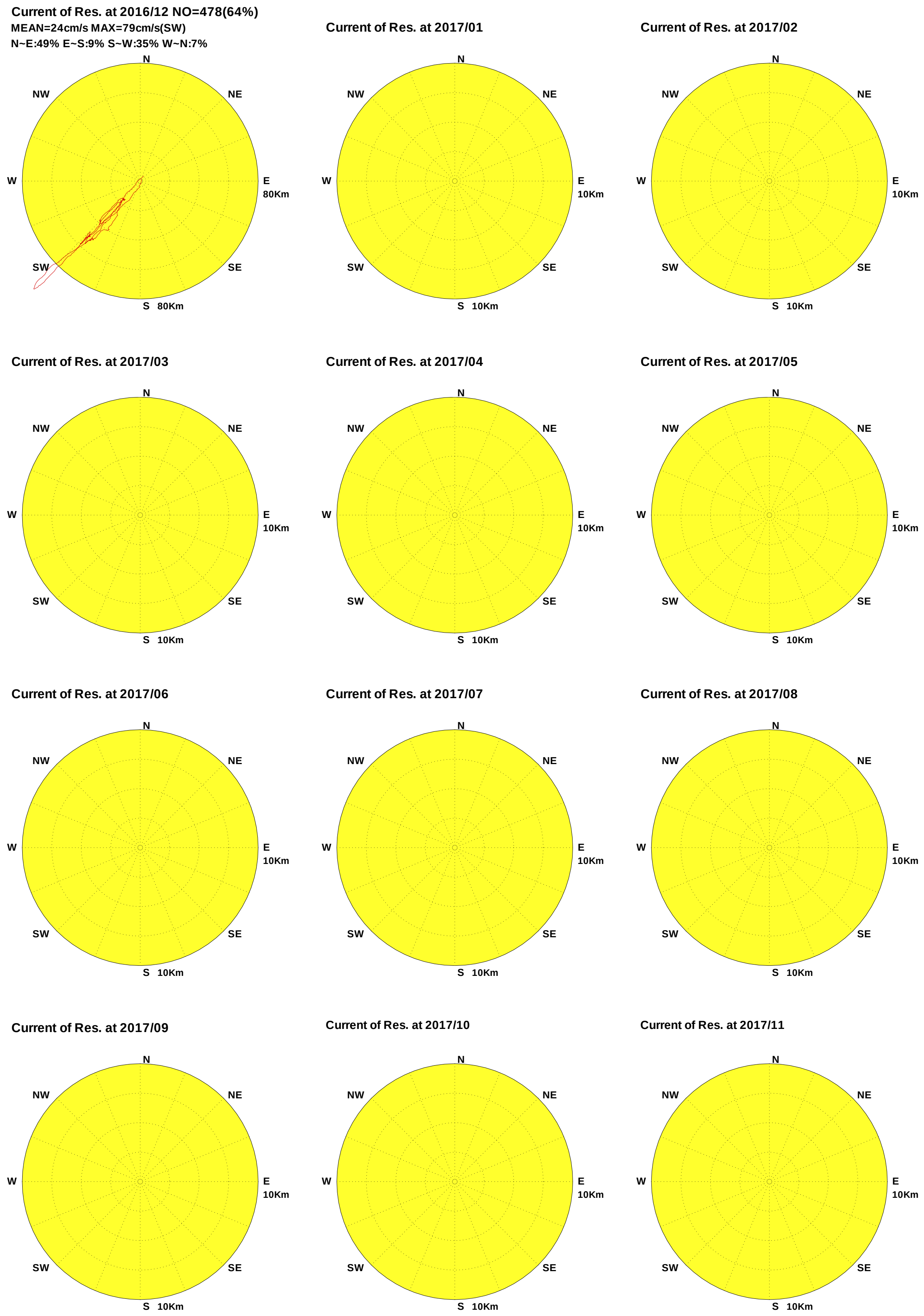


圖4.12f 2017年中雲海域每月測站 Y 計算殘流向量行進圖

C16CTCY0.1HR C171TCY0.1HR C172TCY0.1HR C173TCY0.1HR C174TCY0.1HR C175TCY0.1HR C176TCY0.1HR C177TCY0.1HR C178TCY0.1HR C179TCY0.1HR C17ATCY0.1HR C17BTCY0.1HR	Institute of Harbor & Marine Technology

Distribution of Current Vectores

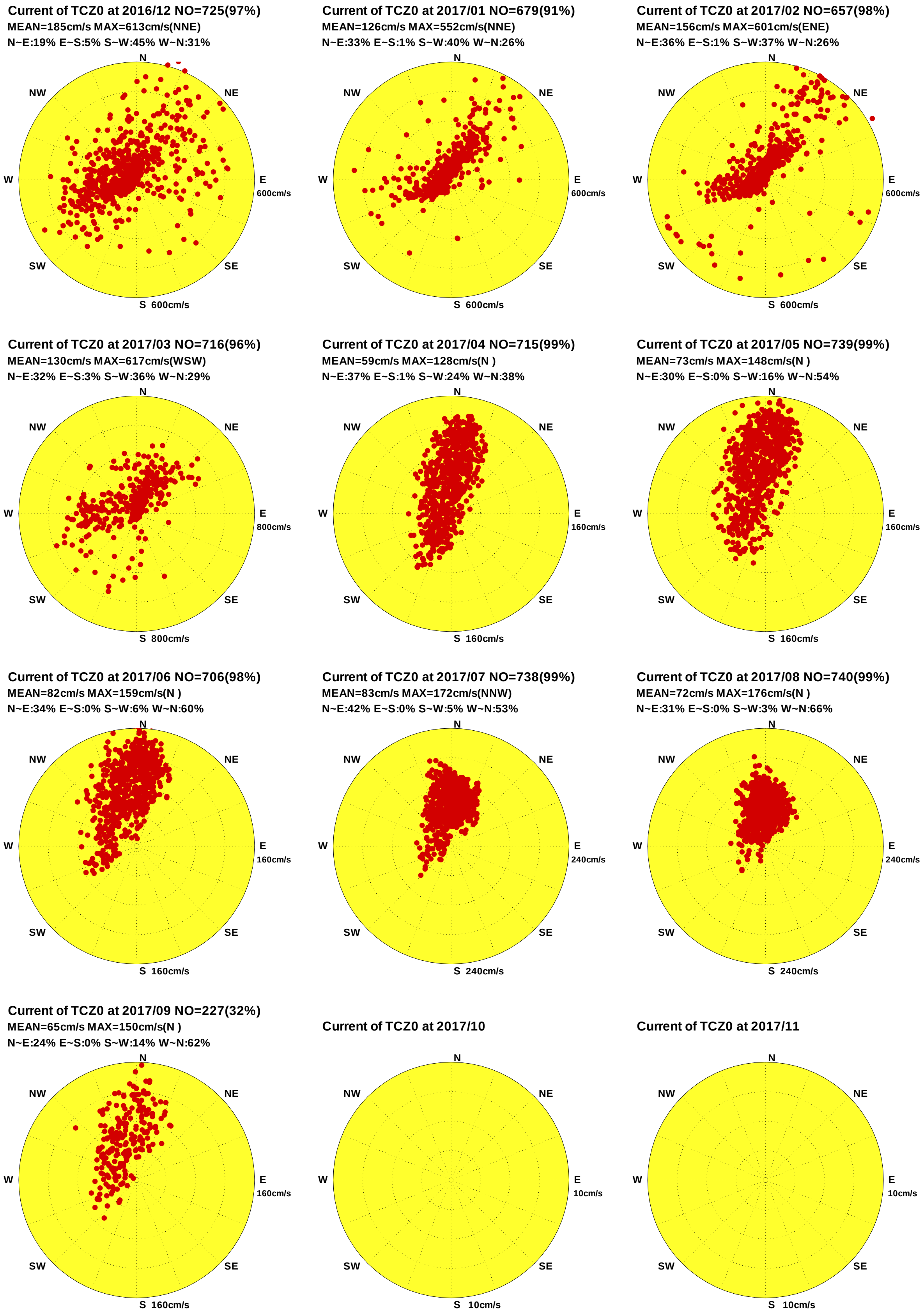


圖4.13a 2017年中雲海域每月測站 Z 觀測海流向量分佈圖

C16CTCZ0.1H0 C171TCZ0.1H0 C172TCZ0.1H0 C173TCZ0.1H0 C174TCZ0.1H0 C175TCZ0.1H0 C176TCZ0.1H0 C177TCZ0.1H0 C178TCZ0.1H0 C179TCZ0.1H0 C17ATCZ0.1H0 C17BTCZ0.1H0	Institute of Harbor & Marine Technology

Progressive Vector Diagram of Current

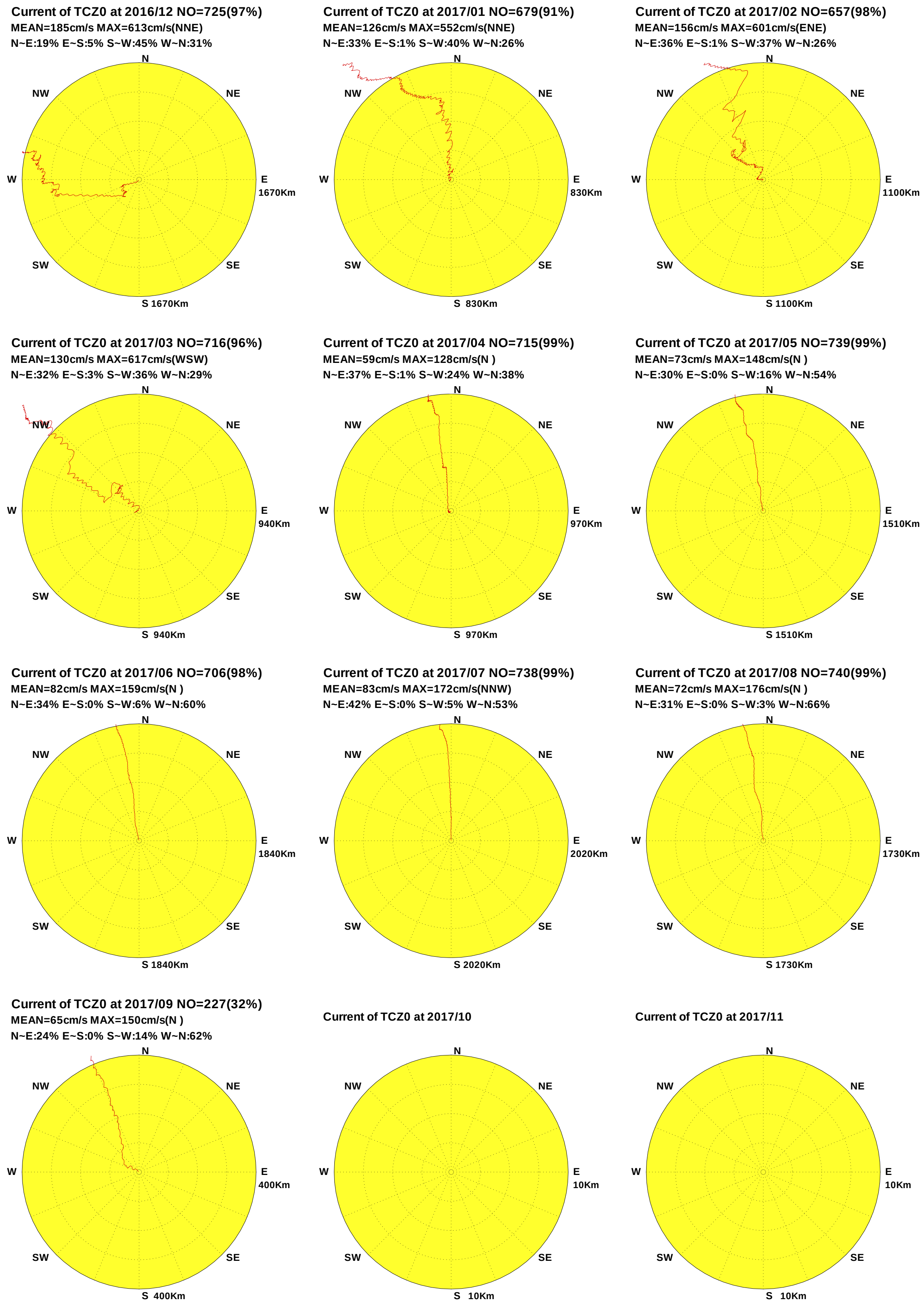


圖4.13b 2017年中雲海域每月測站 Z 觀測海流向量行進圖

C16CTCZ0.1H0 C171TCZ0.1H0 C172TCZ0.1H0 C173TCZ0.1H0 C174TCZ0.1H0 C175TCZ0.1H0 C176TCZ0.1H0 C177TCZ0.1H0 C178TCZ0.1H0 C179TCZ0.1H0 C17ATCZ0.1H0 C17BTCZ0.1H0	Institute of Harbor & Marine Technology

Distribution of Current Vectores

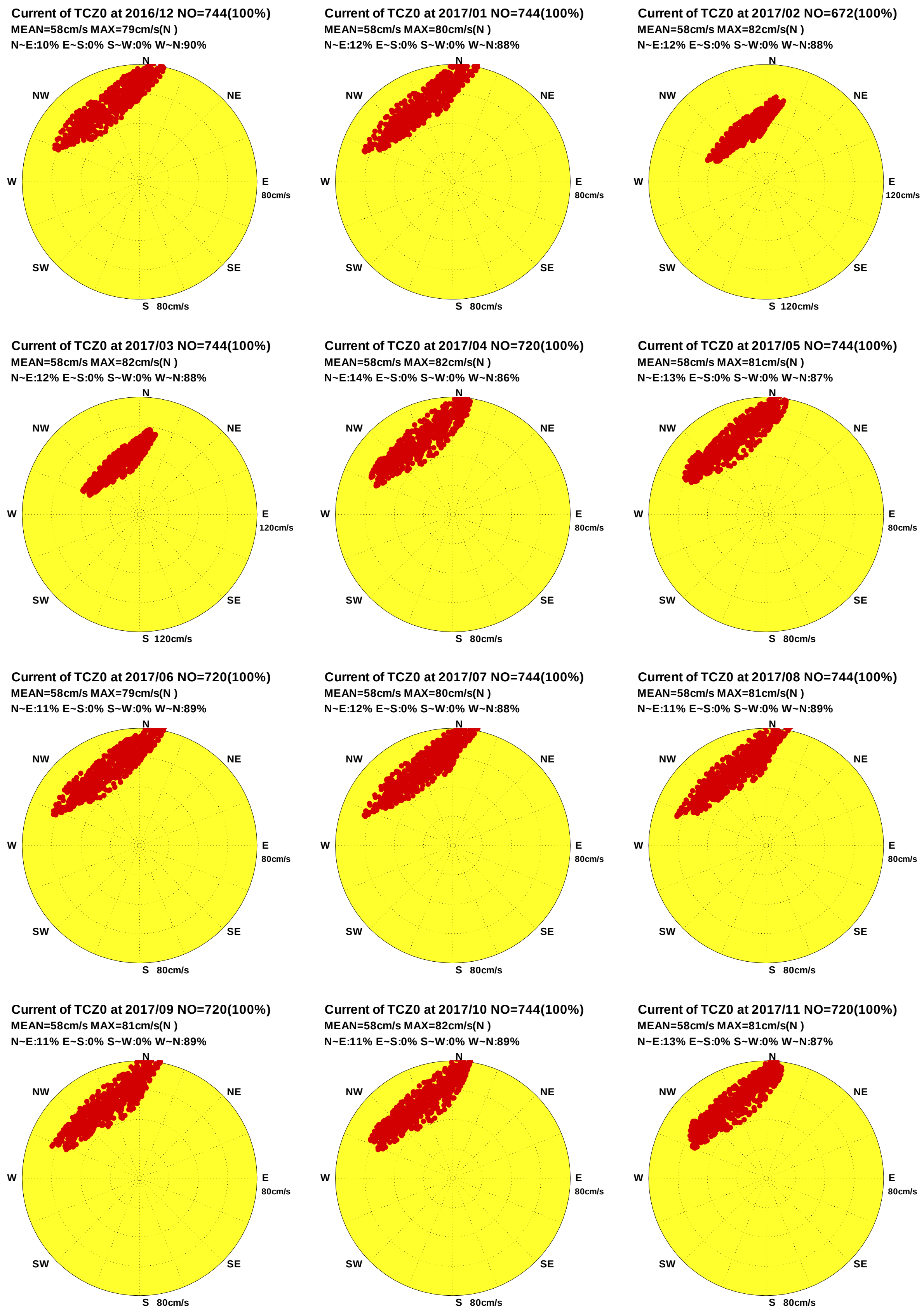


圖4.13c 2017年中雲海域每月測站 Z 計算潮流向量分佈圖

C16CTCZ0.1HD C171TCZ0.1HD C172TCZ0.1HD C173TCZ0.1HD C174TCZ0.1HD C175TCZ0.1HD C176TCZ0.1HD C177TCZ0.1HD C178TCZ0.1HD C179TCZ0.1HD C17ATCZ0.1HD C17BTCZ0.1HD	Institute of Harbor & Marine Technology

Progressive Vector Diagram of Current

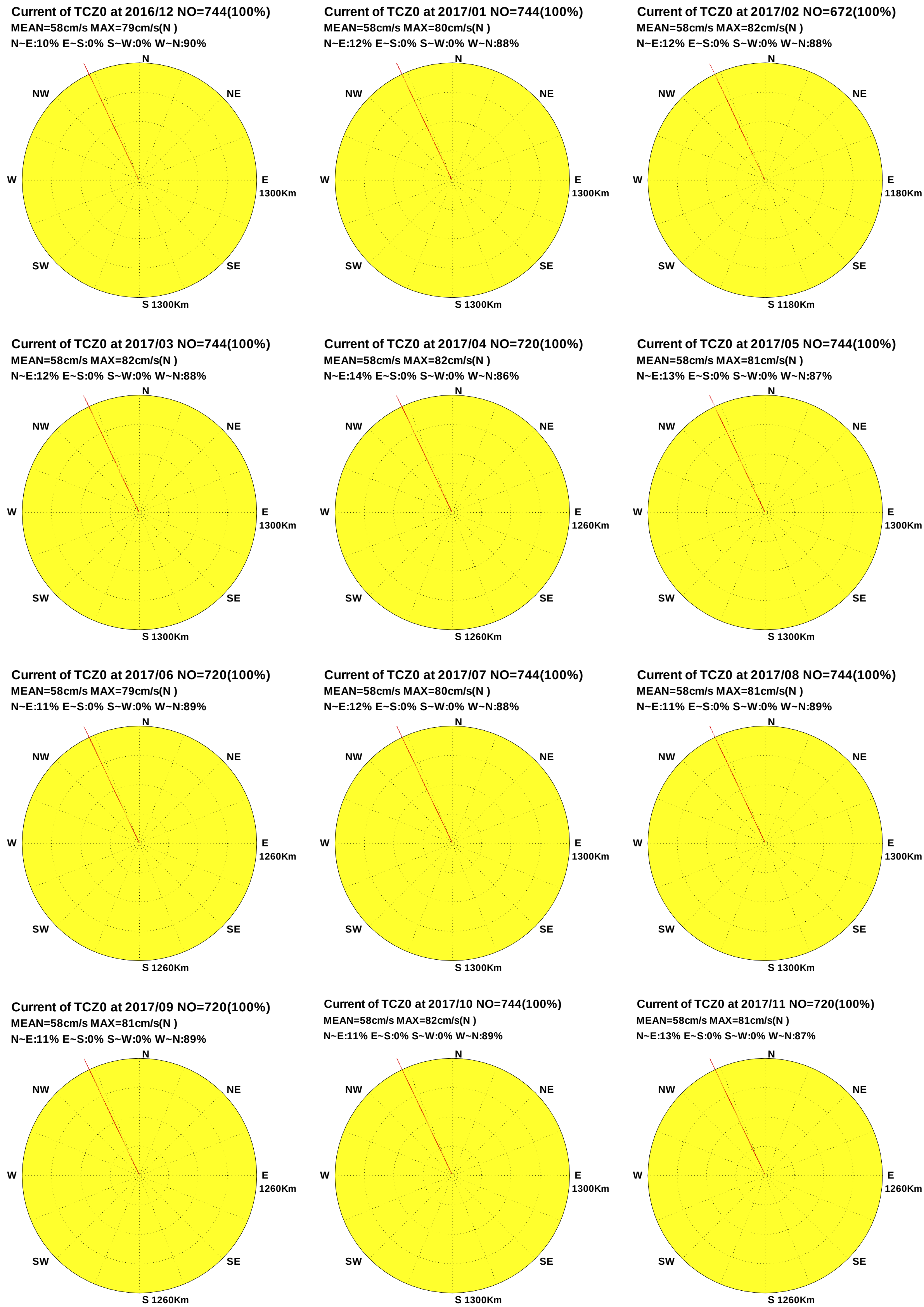


圖4.13d 2017年中雲海域每月測站 Z 計算潮流向量行進圖

C16CTCZ0.1HD C171TCZ0.1HD C172TCZ0.1HD C173TCZ0.1HD C174TCZ0.1HD C175TCZ0.1HD
C176TCZ0.1HD C177TCZ0.1HD C178TCZ0.1HD C179TCZ0.1HD C17ATCZ0.1HD C17BTCZ0.1HD

Institute of Harbor & Marine Technology

Distribution of Current Vectores

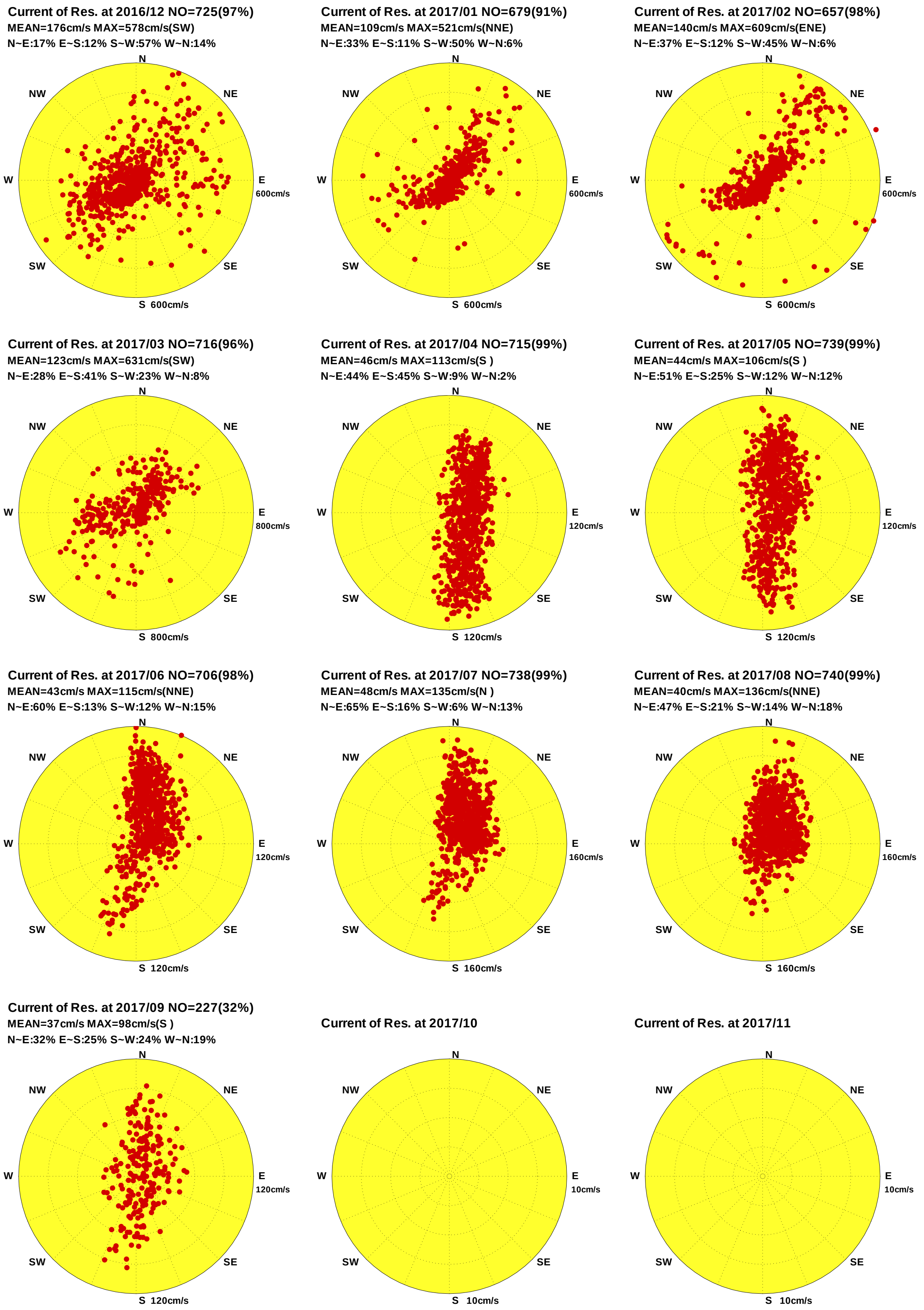


圖4.13e 2017年中雲海域每月測站 Z 計算殘流向量分佈圖

C16CTCZ0.1HR C171TCZ0.1HR C172TCZ0.1HR C173TCZ0.1HR C174TCZ0.1HR C175TCZ0.1HR
C176TCZ0.1HR C177TCZ0.1HR C178TCZ0.1HR C179TCZ0.1HR C17ATCZ0.1HR C17BTCZ0.1HR

Institute of Harbor & Marine Technology

Progressive Vector Diagram of Current

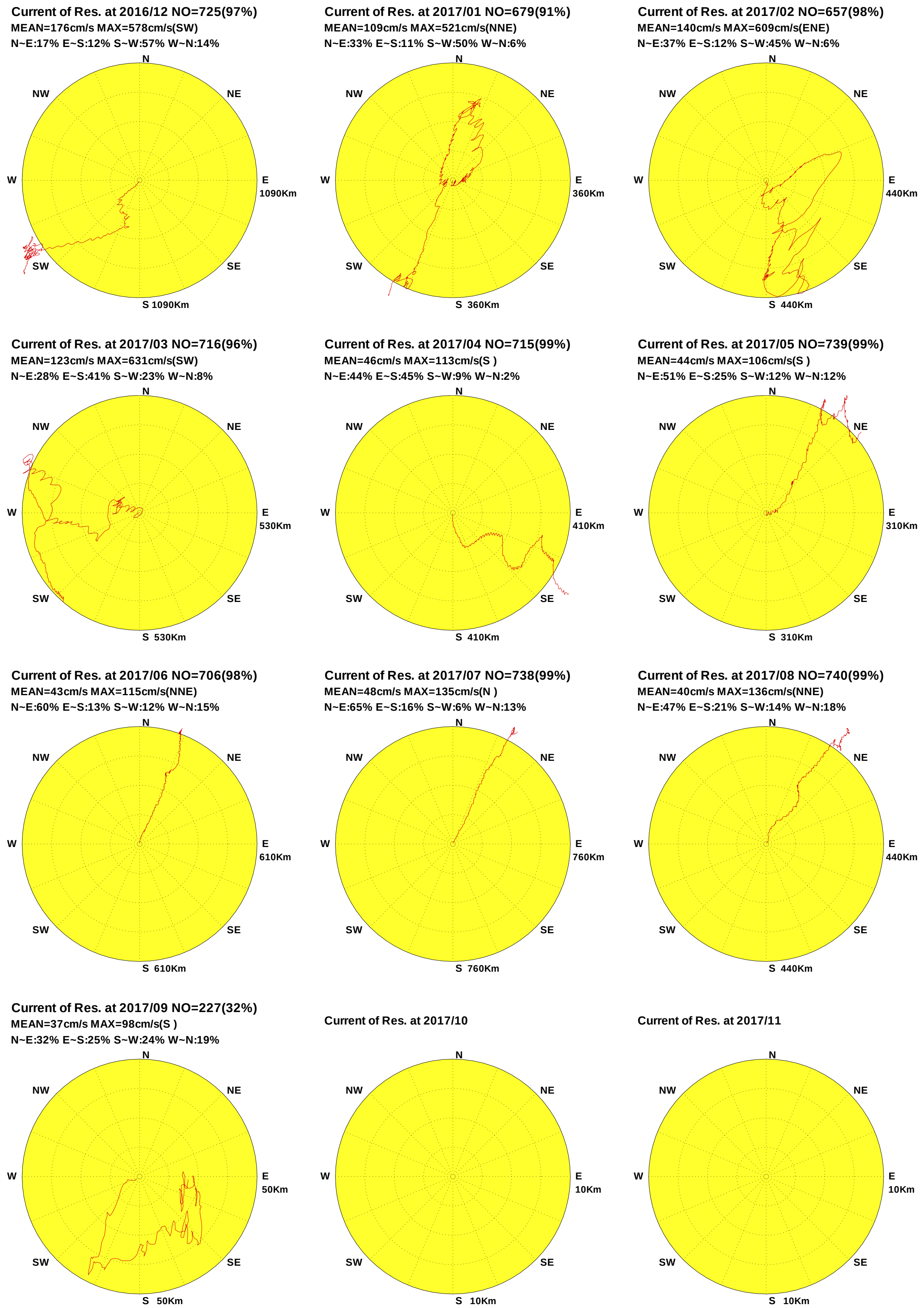


圖4.13f 2017年中雲海域每月測站 Z 計算殘流向量行進圖

C16CTCZ0.1HR C171TCZ0.1HR C172TCZ0.1HR C173TCZ0.1HR C174TCZ0.1HR C175TCZ0.1HR
C176TCZ0.1HR C177TCZ0.1HR C178TCZ0.1HR C179TCZ0.1HR C17ATCZ0.1HR C17BTCZ0.1HR

Institute of Harbor & Marine Technology

Distribution of Current Vectores

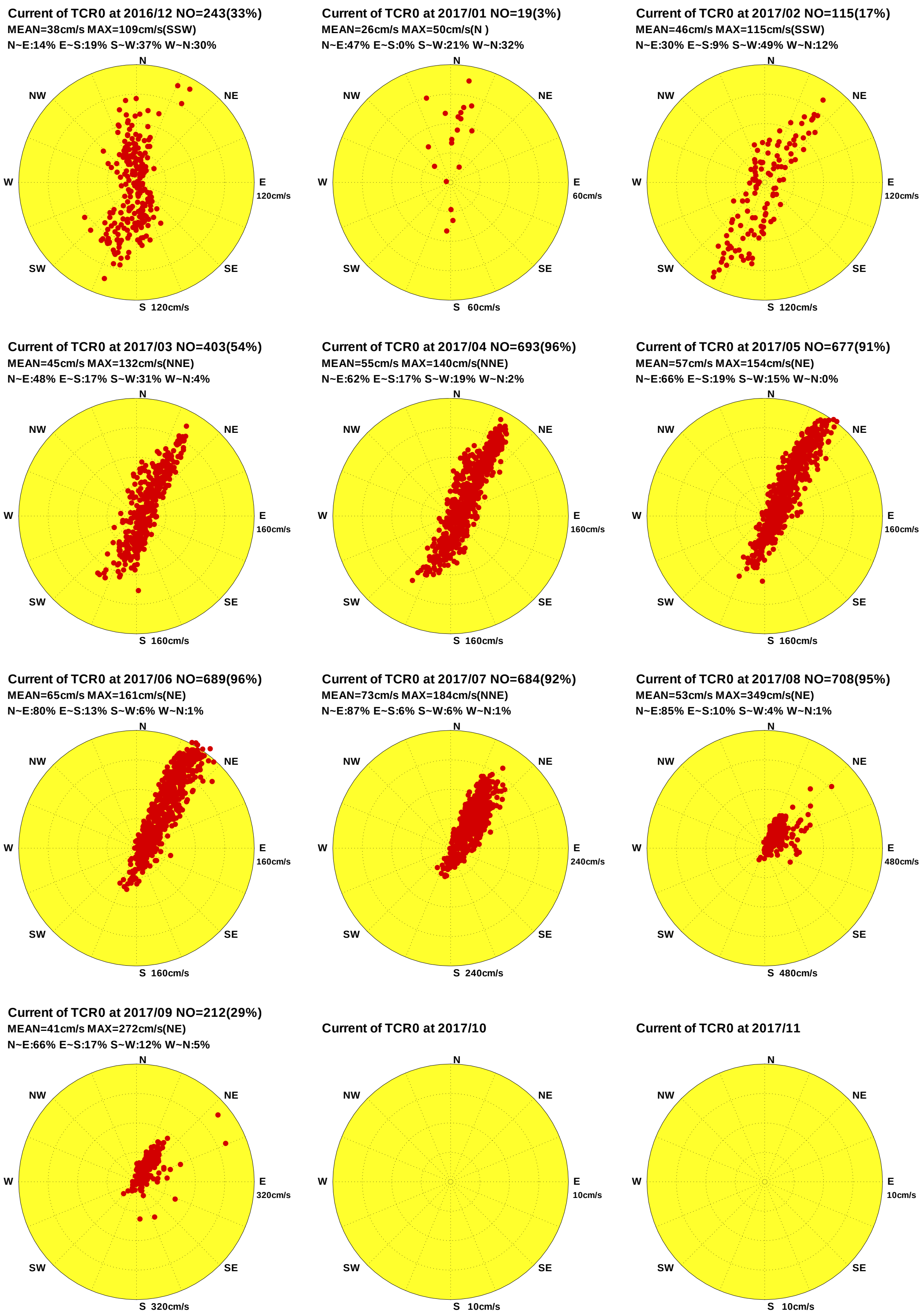


圖4.14a 2017年中雲海域每月測站 R 觀測海流向量分佈圖

C16CTCR0.1H0 C171TCR0.1H0 C172TCR0.1H0 C173TCR0.1H0 C174TCR0.1H0 C175TCR0.1H0
C176TCR0.1H0 C177TCR0.1H0 C178TCR0.1H0 C179TCR0.1H0 C17ATCR0.1H0 C17BTCR0.1H0

Institute of Harbor & Marine Technology

Progressive Vector Diagram of Current

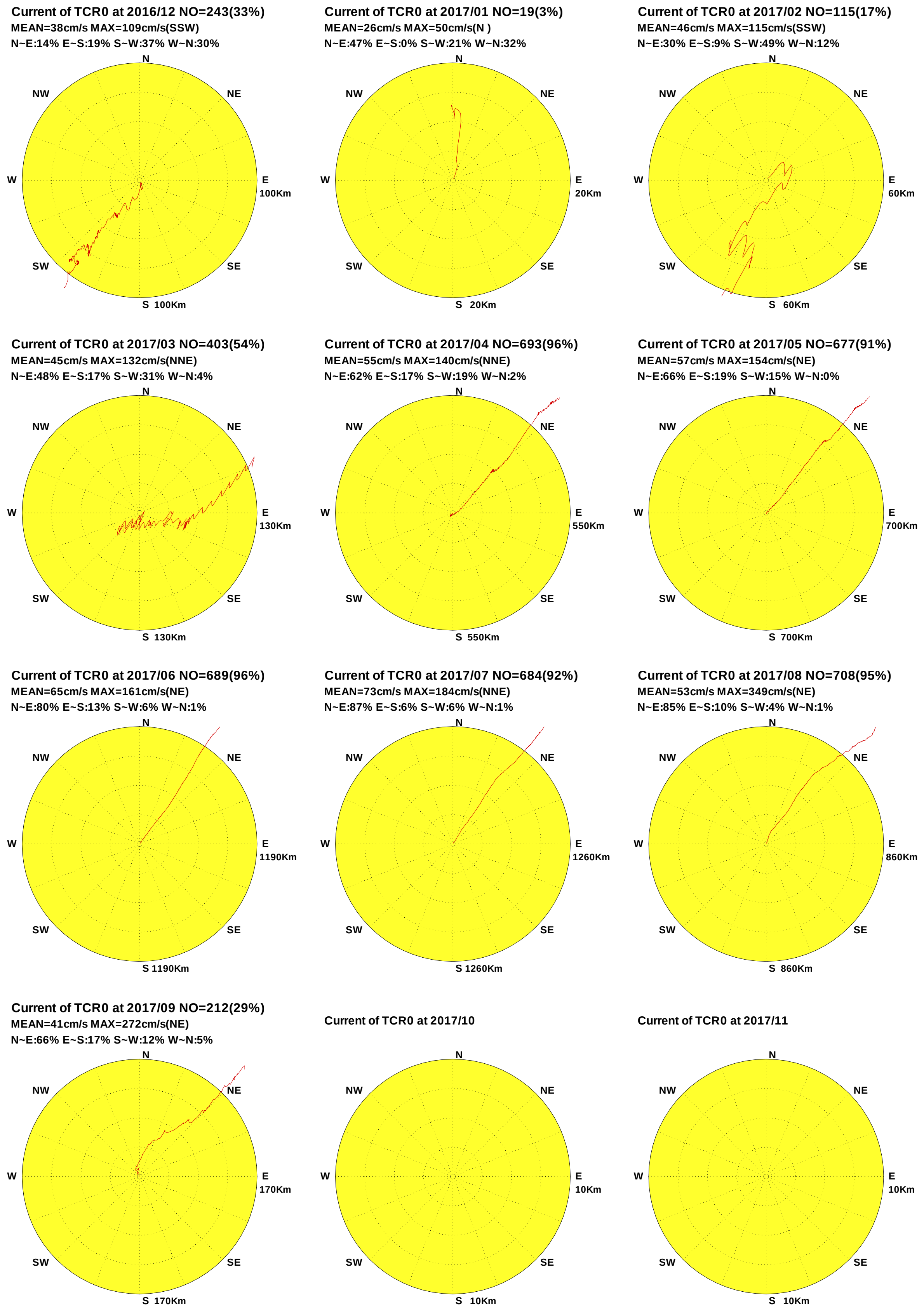
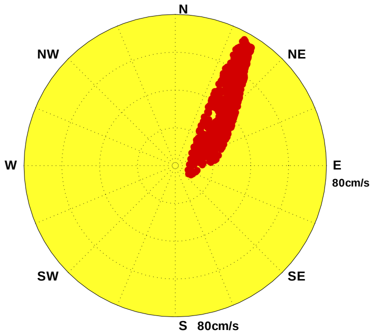


圖4.14b 2017年中雲海域每月測站 R 觀測海流向量行進圖

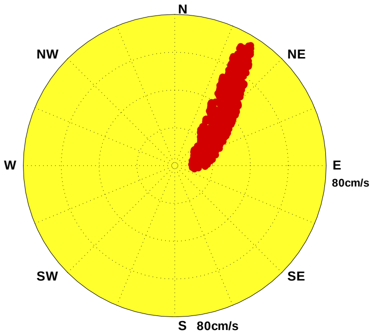
C16CTCR0.1H0 C171TCR0.1H0 C172TCR0.1H0 C173TCR0.1H0 C174TCR0.1H0 C175TCR0.1H0 C176TCR0.1H0 C177TCR0.1H0 C178TCR0.1H0 C179TCR0.1H0 C17ATCR0.1H0 C17BTCR0.1H0	Institute of Harbor & Marine Technology

Distribution of Current Vectores

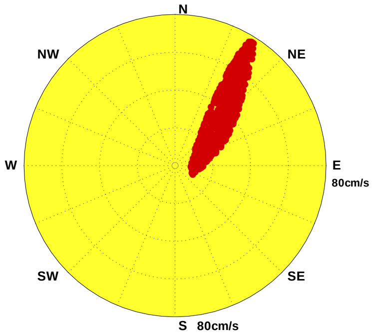
Current of TCR0 at 2016/12 NO=744(100%)
MEAN=39cm/s MAX=72cm/s(NNE)
N~E:97% E~S:3% S~W:0% W~N:0%



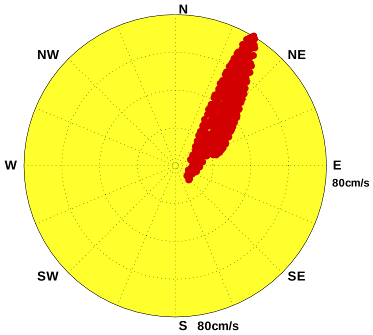
Current of TCR0 at 2017/01 NO=744(100%)
MEAN=39cm/s MAX=72cm/s(NNE)
N~E:96% E~S:4% S~W:0% W~N:0%



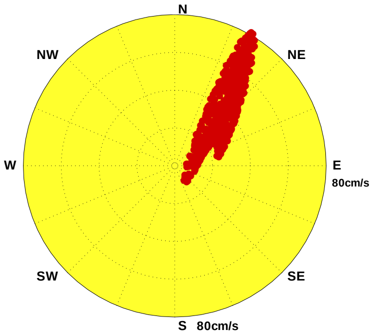
Current of TCR0 at 2017/02 NO=672(100%)
MEAN=39cm/s MAX=73cm/s(NNE)
N~E:96% E~S:4% S~W:0% W~N:0%



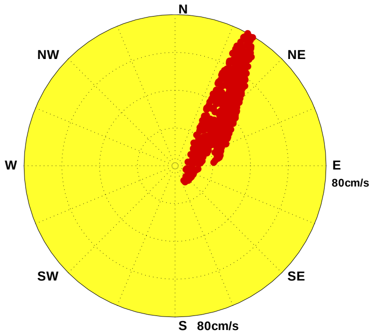
Current of TCR0 at 2017/03 NO=744(100%)
MEAN=39cm/s MAX=77cm/s(NNE)
N~E:95% E~S:5% S~W:0% W~N:0%



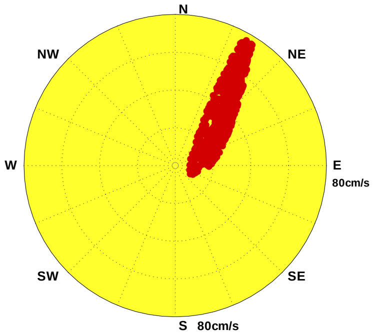
Current of TCR0 at 2017/04 NO=720(100%)
MEAN=39cm/s MAX=78cm/s(NNE)
N~E:95% E~S:5% S~W:0% W~N:0%



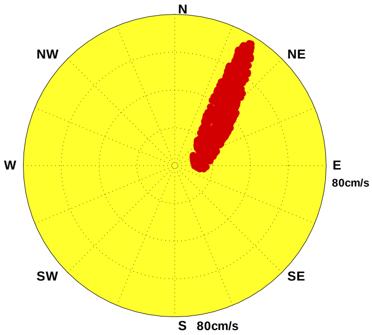
Current of TCR0 at 2017/05 NO=744(100%)
MEAN=39cm/s MAX=76cm/s(NNE)
N~E:95% E~S:5% S~W:0% W~N:0%



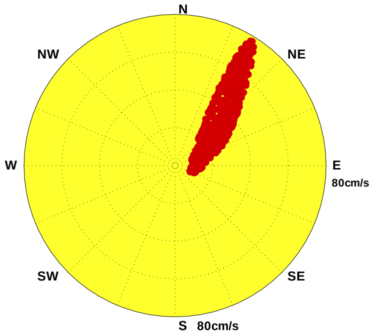
Current of TCR0 at 2017/06 NO=720(100%)
MEAN=39cm/s MAX=72cm/s(NNE)
N~E:97% E~S:3% S~W:0% W~N:0%



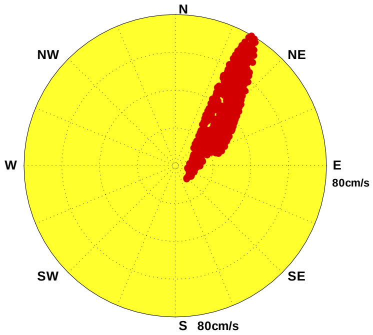
Current of TCR0 at 2017/07 NO=744(100%)
MEAN=39cm/s MAX=72cm/s(NNE)
N~E:96% E~S:4% S~W:0% W~N:0%



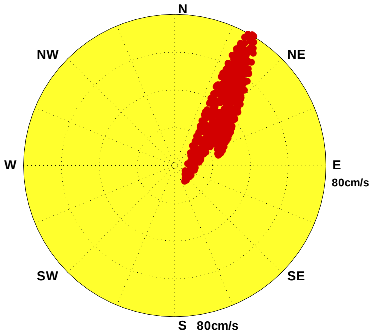
Current of TCR0 at 2017/08 NO=744(100%)
MEAN=39cm/s MAX=74cm/s(NNE)
N~E:96% E~S:4% S~W:0% W~N:0%



Current of TCR0 at 2017/09 NO=720(100%)
MEAN=39cm/s MAX=76cm/s(NNE)
N~E:95% E~S:5% S~W:0% W~N:0%



Current of TCR0 at 2017/10 NO=744(100%)
MEAN=39cm/s MAX=77cm/s(NNE)
N~E:96% E~S:4% S~W:0% W~N:0%



Current of TCR0 at 2017/11 NO=720(100%)
MEAN=39cm/s MAX=77cm/s(NNE)
N~E:96% E~S:4% S~W:0% W~N:0%

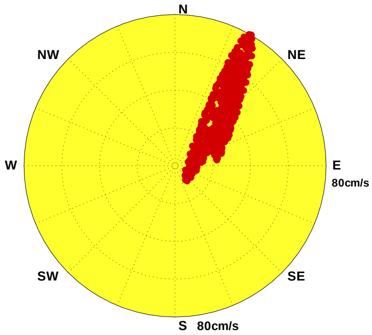
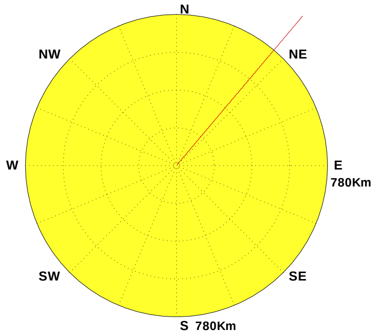


圖4.14c 2017年中雲海域每月測站 R 計算潮流向量分佈圖

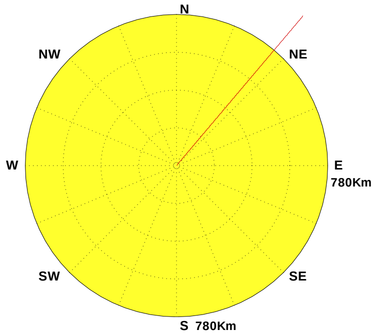
C16CTCR0.1HD C171TCR0.1HD C172TCR0.1HD C173TCR0.1HD C174TCR0.1HD C175TCR0.1HD C176TCR0.1HD C177TCR0.1HD C178TCR0.1HD C179TCR0.1HD C17ATCR0.1HD C17BTCR0.1HD	Institute of Harbor & Marine Technology

Progressive Vector Diagram of Current

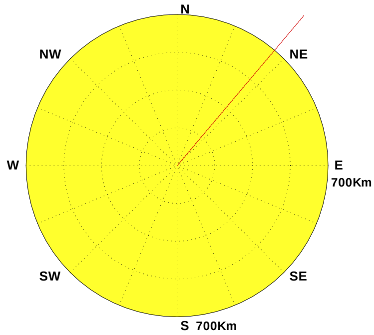
Current of TCR0 at 2016/12 NO=744(100%)
MEAN=39cm/s MAX=72cm/s(NNE)
N~E:97% E~S:3% S~W:0% W~N:0%



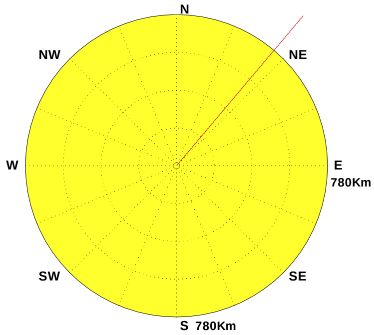
Current of TCR0 at 2017/01 NO=744(100%)
MEAN=39cm/s MAX=72cm/s(NNE)
N~E:96% E~S:4% S~W:0% W~N:0%



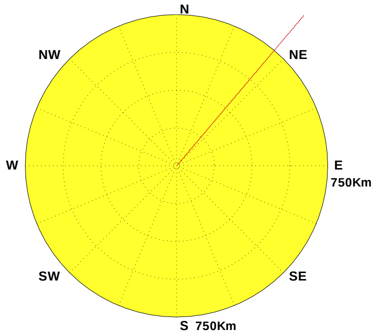
Current of TCR0 at 2017/02 NO=672(100%)
MEAN=39cm/s MAX=73cm/s(NNE)
N~E:96% E~S:4% S~W:0% W~N:0%



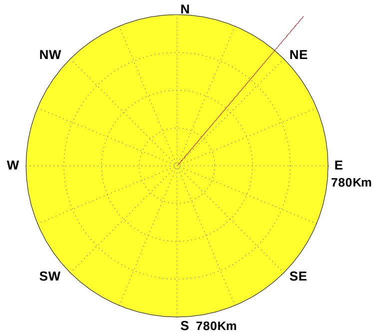
Current of TCR0 at 2017/03 NO=744(100%)
MEAN=39cm/s MAX=77cm/s(NNE)
N~E:95% E~S:5% S~W:0% W~N:0%



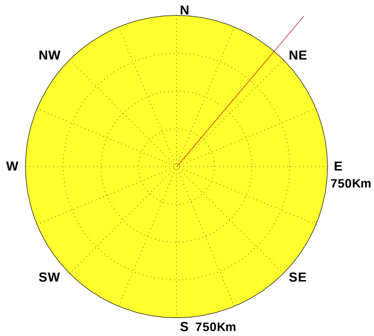
Current of TCR0 at 2017/04 NO=720(100%)
MEAN=39cm/s MAX=78cm/s(NNE)
N~E:95% E~S:5% S~W:0% W~N:0%



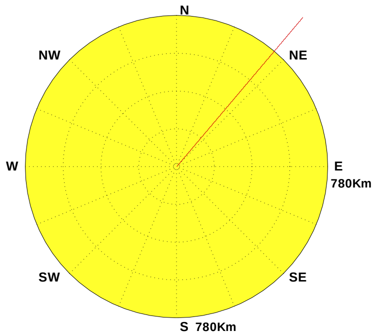
Current of TCR0 at 2017/05 NO=744(100%)
MEAN=39cm/s MAX=76cm/s(NNE)
N~E:95% E~S:5% S~W:0% W~N:0%



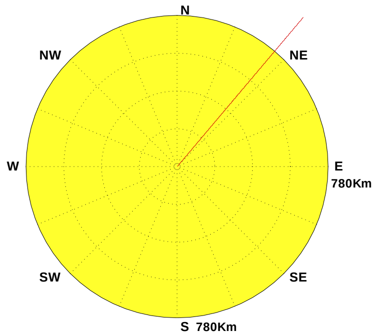
Current of TCR0 at 2017/06 NO=720(100%)
MEAN=39cm/s MAX=72cm/s(NNE)
N~E:97% E~S:3% S~W:0% W~N:0%



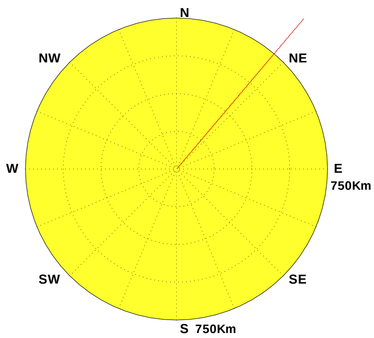
Current of TCR0 at 2017/07 NO=744(100%)
MEAN=39cm/s MAX=72cm/s(NNE)
N~E:96% E~S:4% S~W:0% W~N:0%



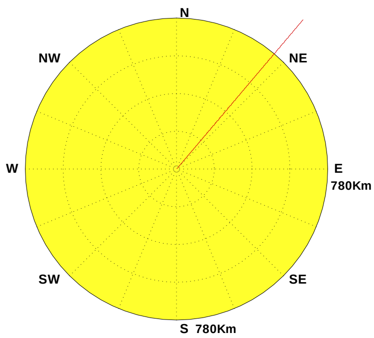
Current of TCR0 at 2017/08 NO=744(100%)
MEAN=39cm/s MAX=74cm/s(NNE)
N~E:96% E~S:4% S~W:0% W~N:0%



Current of TCR0 at 2017/09 NO=720(100%)
MEAN=39cm/s MAX=76cm/s(NNE)
N~E:95% E~S:5% S~W:0% W~N:0%



Current of TCR0 at 2017/10 NO=744(100%)
MEAN=39cm/s MAX=77cm/s(NNE)
N~E:96% E~S:4% S~W:0% W~N:0%



Current of TCR0 at 2017/11 NO=720(100%)
MEAN=39cm/s MAX=77cm/s(NNE)
N~E:96% E~S:4% S~W:0% W~N:0%

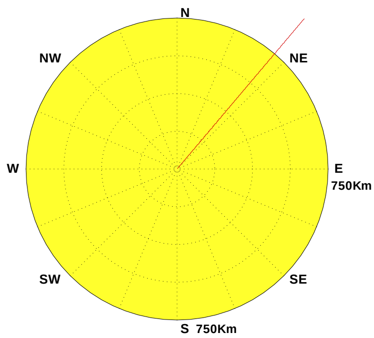


圖4.14d 2017年中雲海域每月測站 R 計算潮流向量行進圖

C16CTCR0.1HD C171TCR0.1HD C172TCR0.1HD C173TCR0.1HD C174TCR0.1HD C175TCR0.1HD
C176TCR0.1HD C177TCR0.1HD C178TCR0.1HD C179TCR0.1HD C17ATCR0.1HD C17BTCR0.1HD

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Distribution of Current Vectores

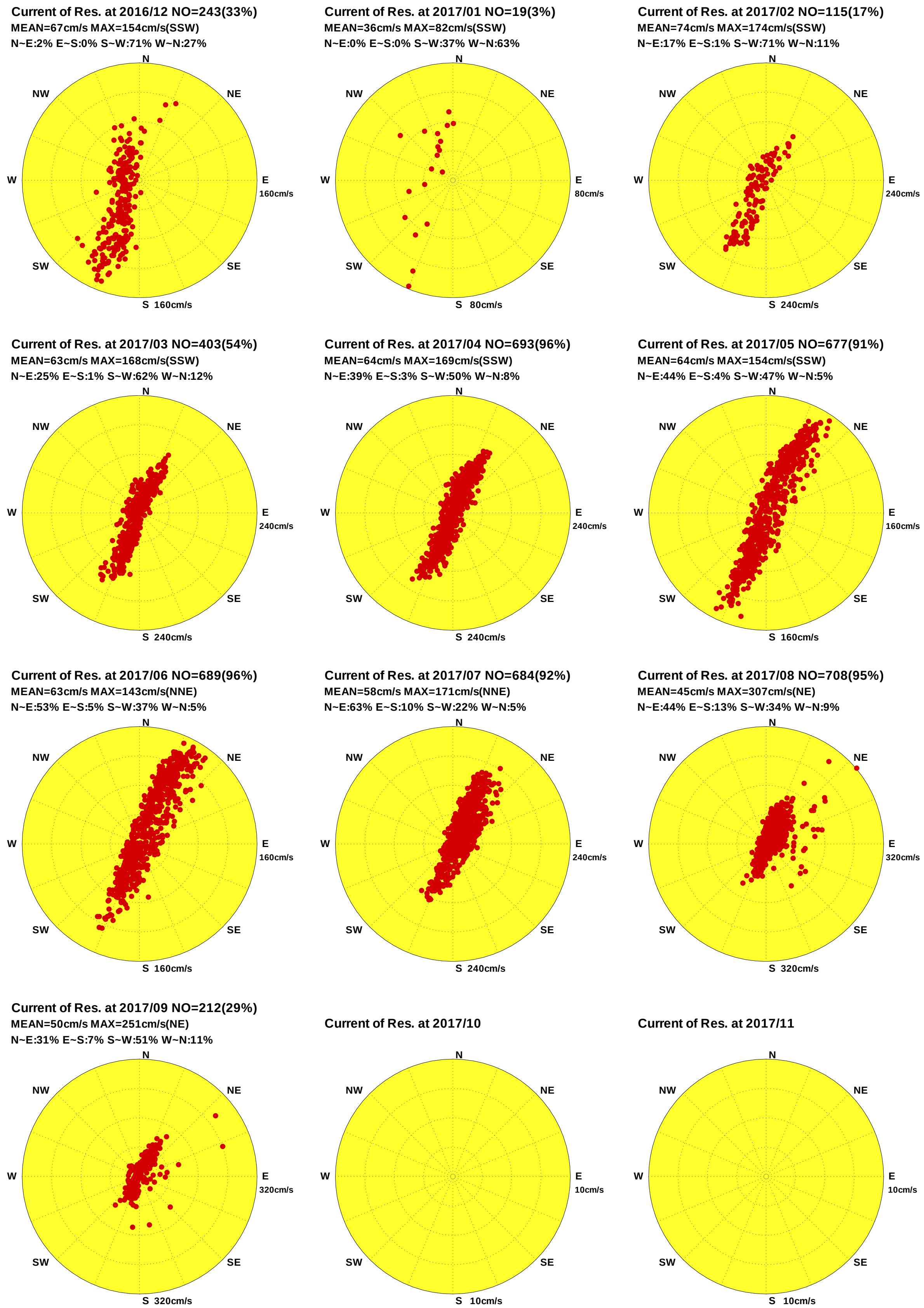


圖4.14e 2017年中雲海域每月測站 R 計算殘流向量分佈圖

C16CTCR0.1HR C171TCR0.1HR C172TCR0.1HR C173TCR0.1HR C174TCR0.1HR C175TCR0.1HR C176TCR0.1HR C177TCR0.1HR C178TCR0.1HR C179TCR0.1HR C17ATCR0.1HR C17BTCR0.1HR	Institute of Harbor & Marine Technology

Progressive Vector Diagram of Current

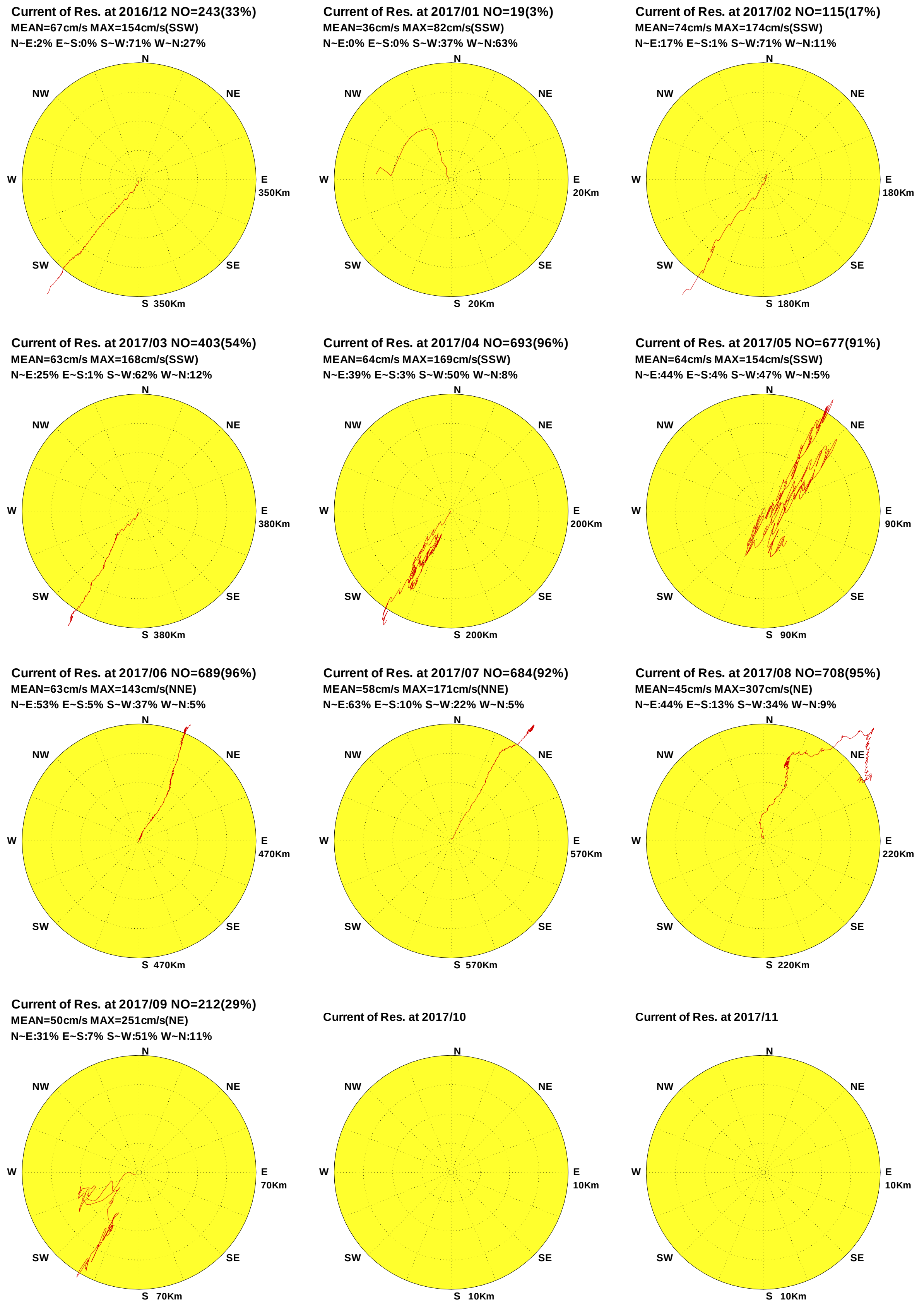


圖4.14f 2017年中雲海域每月測站 R 計算殘流向量行進圖

C16CTCR0.1HR C171TCR0.1HR C172TCR0.1HR C173TCR0.1HR C174TCR0.1HR C175TCR0.1HR C176TCR0.1HR C177TCR0.1HR C178TCR0.1HR C179TCR0.1HR C17ATCR0.1HR C17BTCR0.1HR	Institute of Harbor & Marine Technology

Distribution of Current Vectores

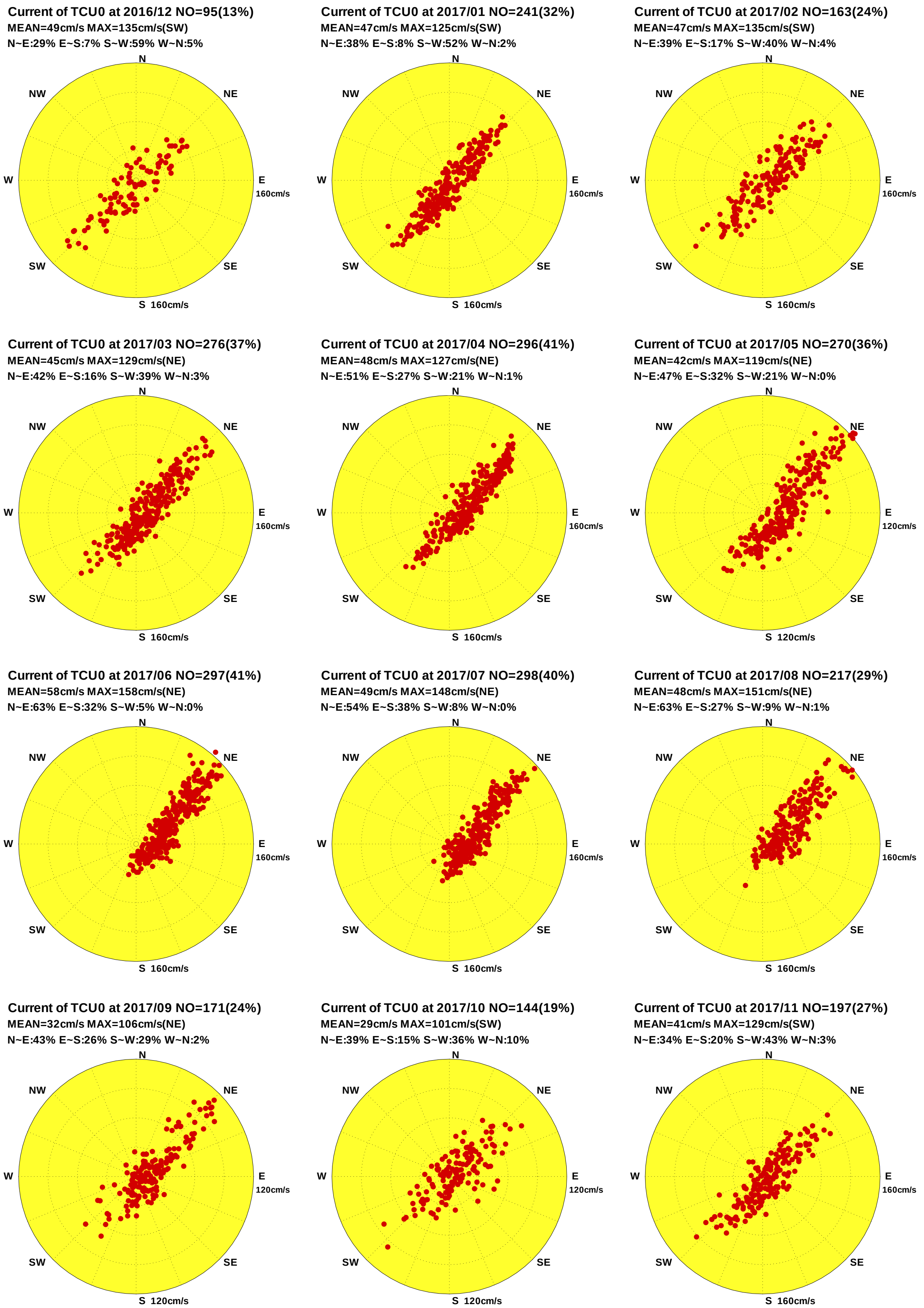


圖4.15a 2017年中雲海域每月測站 U 觀測海流向量分佈圖

C16CTCU0.1H0 C171TCU0.1H0 C172TCU0.1H0 C173TCU0.1H0 C174TCU0.1H0 C175TCU0.1H0
C176TCU0.1H0 C177TCU0.1H0 C178TCU0.1H0 C179TCU0.1H0 C17ATCU0.1H0 C17BTCU0.1H0

Institute of Harbor & Marine Technology

VECC4A.BAT(VECC4AV.DAT)

2018/07/11

Progressive Vector Diagram of Current

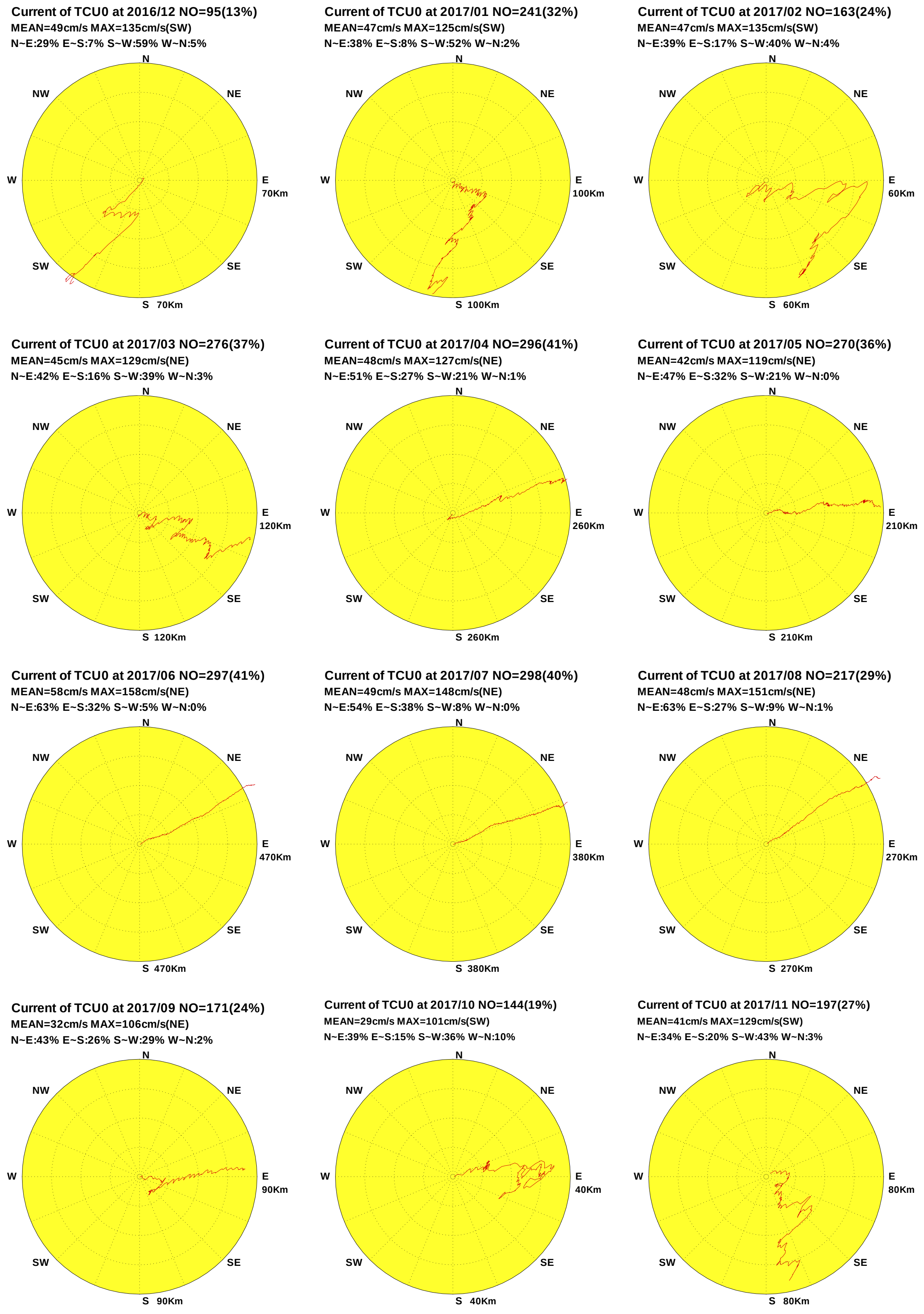


圖4.15b 2017年中雲海域每月測站 U 觀測海流向量行進圖

C16CTCU0.1H0 C171TCU0.1H0 C172TCU0.1H0 C173TCU0.1H0 C174TCU0.1H0 C175TCU0.1H0 C176TCU0.1H0 C177TCU0.1H0 C178TCU0.1H0 C179TCU0.1H0 C17ATCU0.1H0 C17BTCU0.1H0	Institute of Harbor & Marine Technology

Distribution of Current Vectores

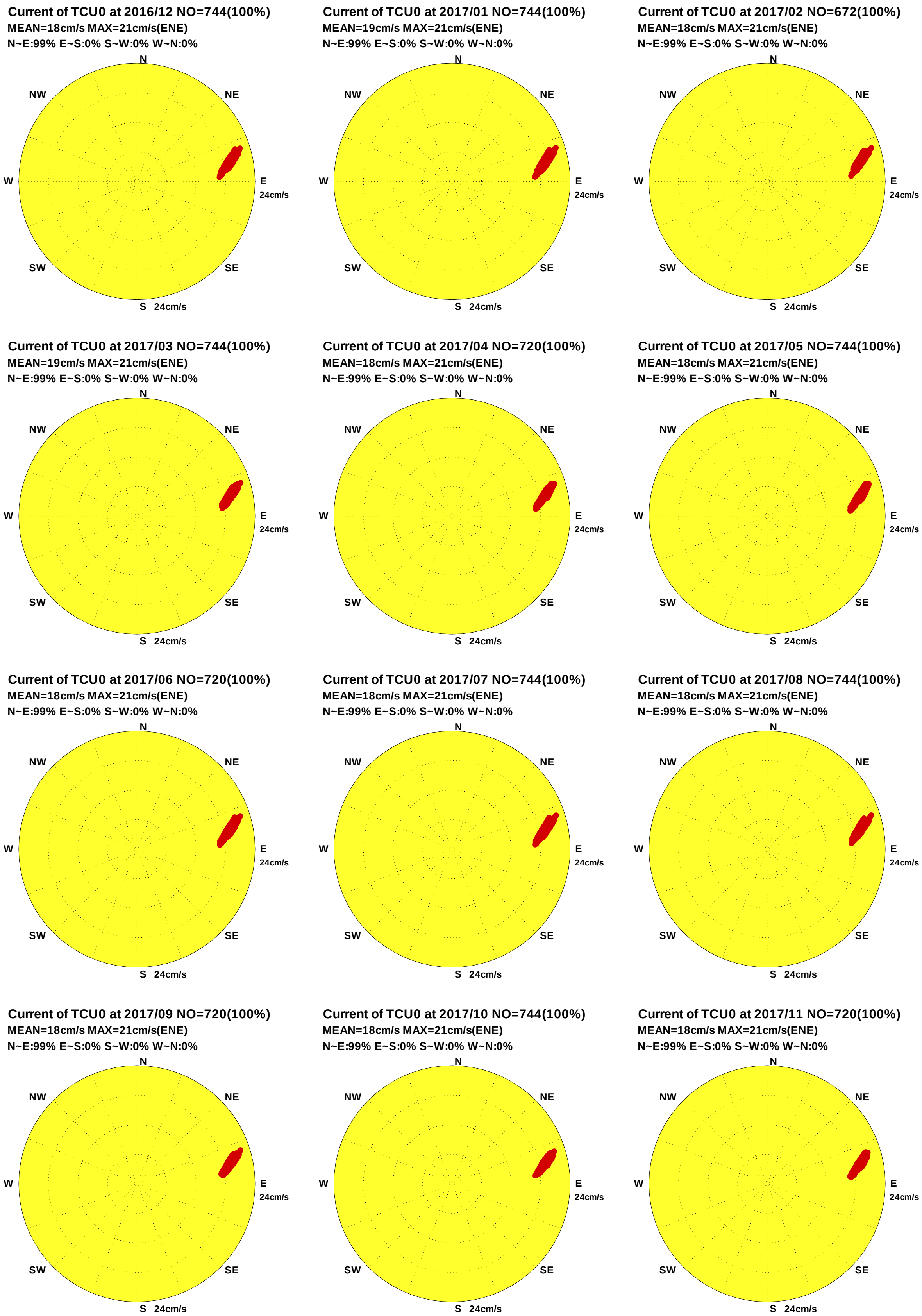
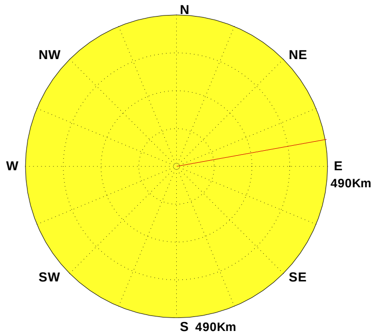


圖4.15c 2017年中雲海域每月測站 U 計算潮流向量分佈圖

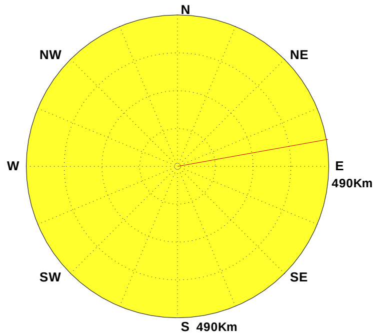
C16CTCU0.1HD C171TCU0.1HD C172TCU0.1HD C173TCU0.1HD C174TCU0.1HD C175TCU0.1HD C176TCU0.1HD C177TCU0.1HD C178TCU0.1HD C179TCU0.1HD C17ATCU0.1HD C17BTCU0.1HD	Institute of Harbor & Marine Technology

Progressive Vector Diagram of Current

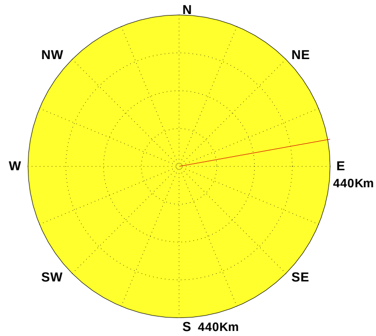
Current of TCU0 at 2016/12 NO=744(100%)
MEAN=18cm/s MAX=21cm/s(ENE)
N~E:99% E~S:0% S~W:0% W~N:0%



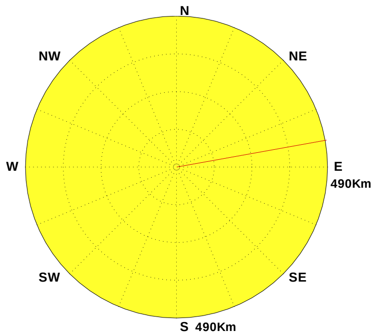
Current of TCU0 at 2017/01 NO=744(100%)
MEAN=19cm/s MAX=21cm/s(ENE)
N~E:99% E~S:0% S~W:0% W~N:0%



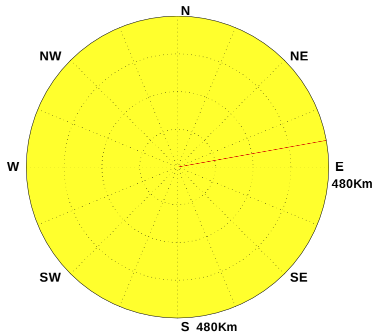
Current of TCU0 at 2017/02 NO=672(100%)
MEAN=18cm/s MAX=21cm/s(ENE)
N~E:99% E~S:0% S~W:0% W~N:0%



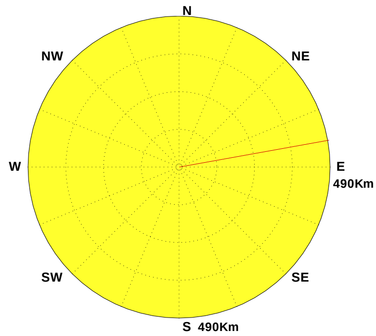
Current of TCU0 at 2017/03 NO=744(100%)
MEAN=19cm/s MAX=21cm/s(ENE)
N~E:99% E~S:0% S~W:0% W~N:0%



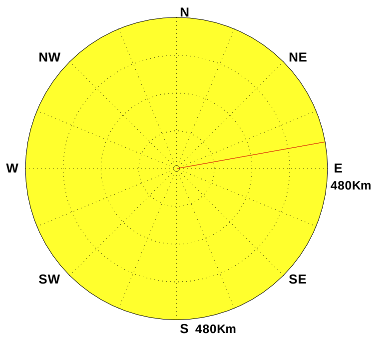
Current of TCU0 at 2017/04 NO=720(100%)
MEAN=18cm/s MAX=21cm/s(ENE)
N~E:99% E~S:0% S~W:0% W~N:0%



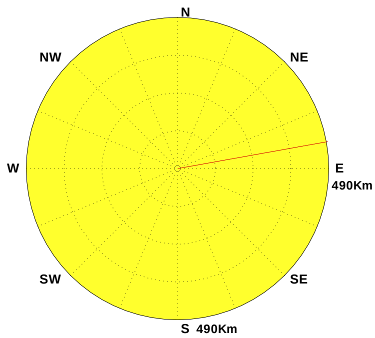
Current of TCU0 at 2017/05 NO=744(100%)
MEAN=18cm/s MAX=21cm/s(ENE)
N~E:99% E~S:0% S~W:0% W~N:0%



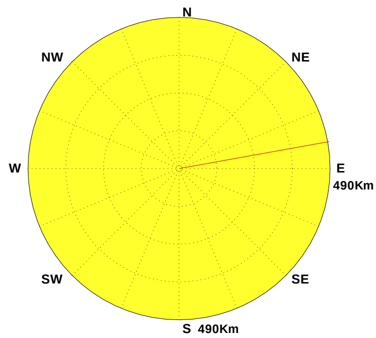
Current of TCU0 at 2017/06 NO=720(100%)
MEAN=18cm/s MAX=21cm/s(ENE)
N~E:99% E~S:0% S~W:0% W~N:0%



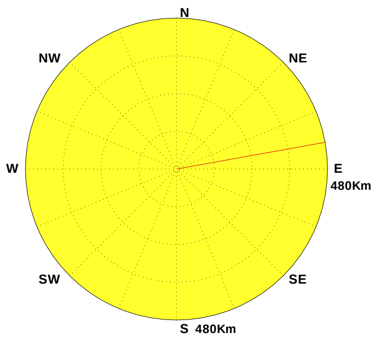
Current of TCU0 at 2017/07 NO=744(100%)
MEAN=18cm/s MAX=21cm/s(ENE)
N~E:99% E~S:0% S~W:0% W~N:0%



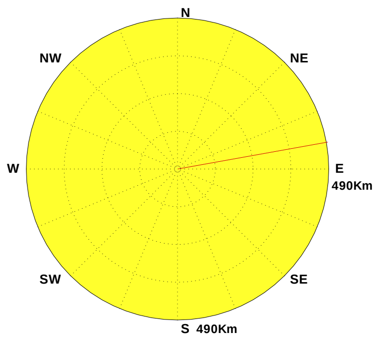
Current of TCU0 at 2017/08 NO=744(100%)
MEAN=18cm/s MAX=21cm/s(ENE)
N~E:99% E~S:0% S~W:0% W~N:0%



Current of TCU0 at 2017/09 NO=720(100%)
MEAN=18cm/s MAX=21cm/s(ENE)
N~E:99% E~S:0% S~W:0% W~N:0%



Current of TCU0 at 2017/10 NO=744(100%)
MEAN=18cm/s MAX=21cm/s(ENE)
N~E:99% E~S:0% S~W:0% W~N:0%



Current of TCU0 at 2017/11 NO=720(100%)
MEAN=18cm/s MAX=21cm/s(ENE)
N~E:99% E~S:0% S~W:0% W~N:0%

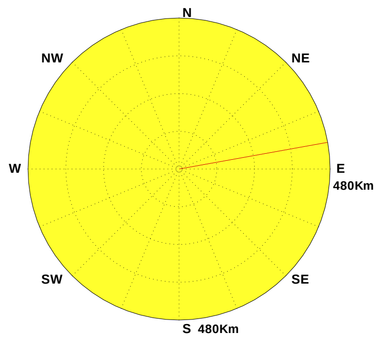


圖4.15d 2017年中雲海域每月測站 U 計算潮流向量行進圖

C16CTCU0.1HD C171TCU0.1HD C172TCU0.1HD C173TCU0.1HD C174TCU0.1HD C175TCU0.1HD
C176TCU0.1HD C177TCU0.1HD C178TCU0.1HD C179TCU0.1HD C17ATCU0.1HD C17BTCU0.1HD

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Distribution of Current Vectores

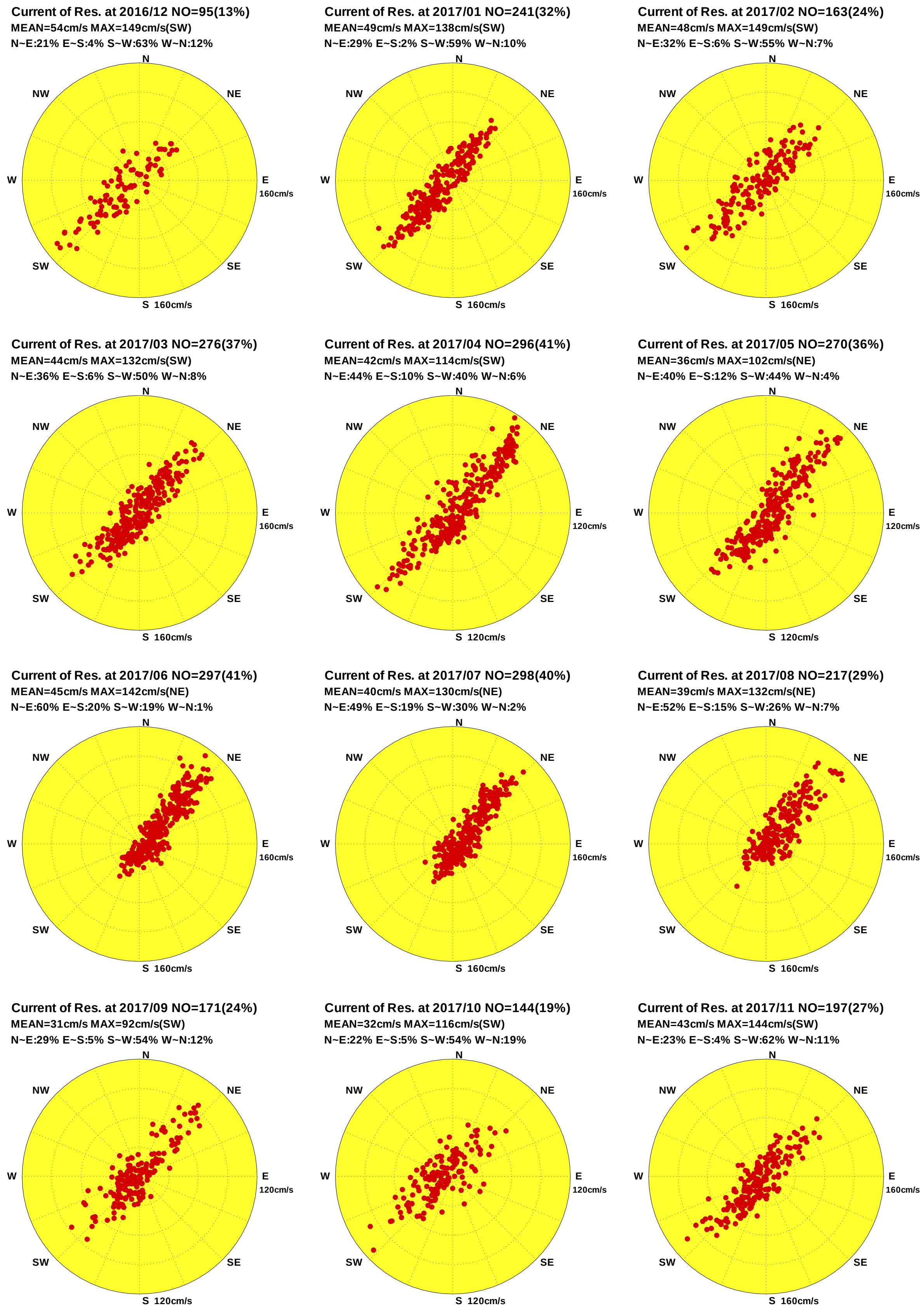

圖4.15e 2017年中雲海域每月測站 U 計算殘流向量分佈圖

C16CTCU0.1HR C171TCU0.1HR C172TCU0.1HR C173TCU0.1HR C174TCU0.1HR C175TCU0.1HR
C176TCU0.1HR C177TCU0.1HR C178TCU0.1HR C179TCU0.1HR C17ATCU0.1HR C17BTCU0.1HR

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Progressive Vector Diagram of Current

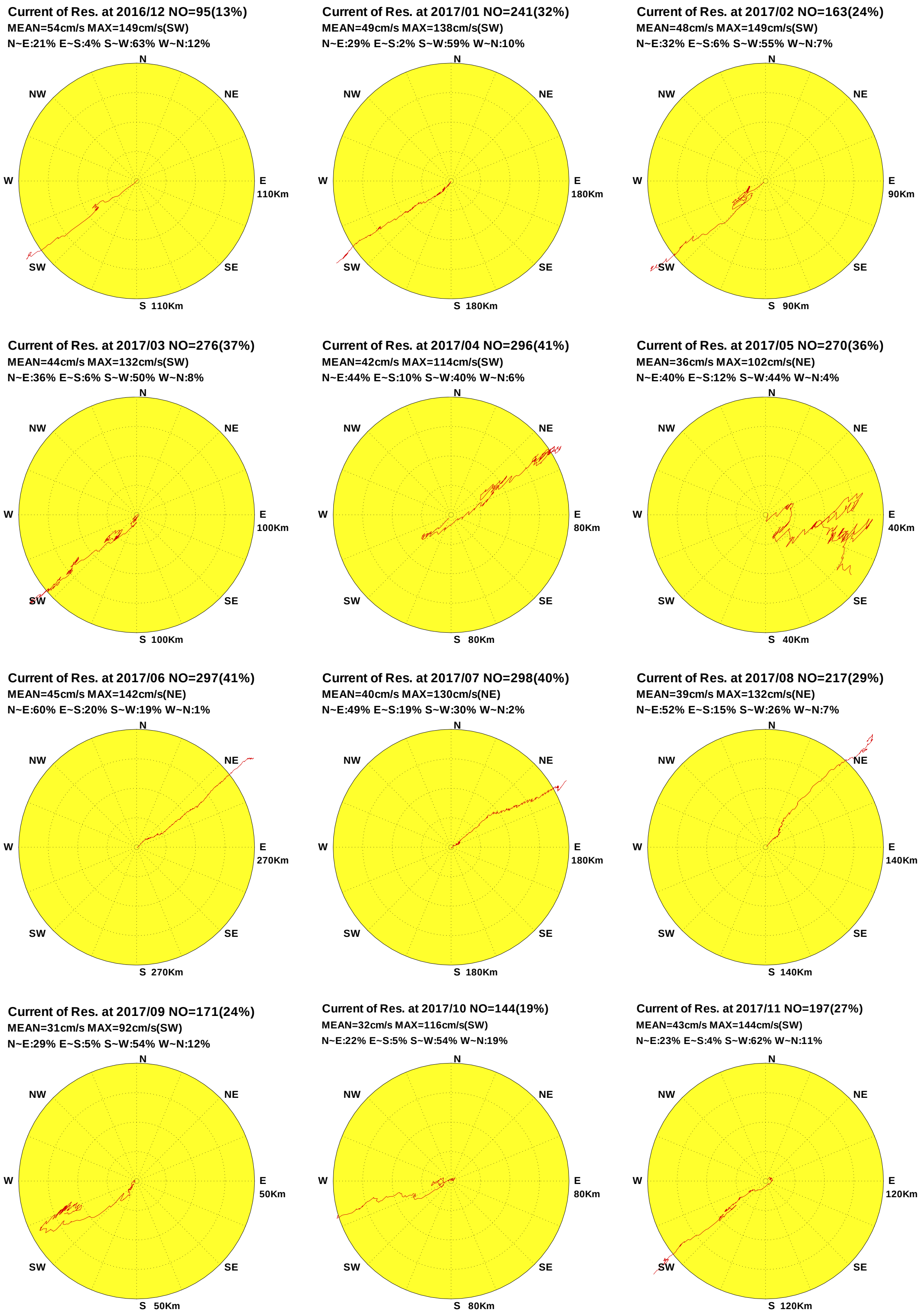

圖4.15f 2017年中雲海域每月測站 U 計算殘流向量行進圖

C16CTCU0.1HR C171TCU0.1HR C172TCU0.1HR C173TCU0.1HR C174TCU0.1HR C175TCU0.1HR C176TCU0.1HR C177TCU0.1HR C178TCU0.1HR C179TCU0.1HR C17ATCU0.1HR C17BTCU0.1HR	Institute of Harbor & Marine Technology