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2019 年港灣環境資訊網
海氣象觀測資料年報
(12 海域波浪觀測資料)



交通部運輸研究所

中華民國 110 年 2 月

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著者：蔣敏玲、蘇青和、李俊穎、傅怡釗、
劉清松、陳鈞彥、蔡世璿

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摘要： 本港灣環境資訊網觀測波浪資料年報，包括北苗、北端、宜蘭、花蓮、臺東、屏東、高雄、嘉南、中雲、澎湖、金門及馬祖等12個海域，2019年觀測波浪資料之觀測記錄表及逐時資料歷線圖。			
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備註：本研究之結論與建議不代表交通部之意見。			

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誌 謝

2019 年港灣環境資訊網觀測波浪資料年報，蒐集之 12 海域波浪資料，除本中心自行觀測之外，在新竹海上浮標(測站 Y)、臺中浮標(測站 V)、龍洞海上浮標(測站 Y)、彭佳嶼浮標(測站 U)、花蓮海上浮標(測站 Y)、測站 Z(蘭嶼浮標站)、測站 R(遠洋浮標站)、小琉球海上浮標(測站 Y)、大鵬灣海上浮標(測站 U)、馬祖海上浮標(測站 Y)、富貴角海上浮標(測站 R)、七美海上浮標(測站 R)、東吉島浮標(測站 Z)等觀測波浪資料，係交通部 中央氣象局(CWB)提供，謹致謝忱。

蘇澳海上浮標(測站 Y)、臺東海上浮標(測站 Y)、鵝鑾鼻海上浮標(測站 Z)、彌陀海上浮標站(測站 Z)、七股海上浮標(測站 Y)、七股雷達站(測站 Z)、澎湖海上浮標(測站 Y)、金門海上浮標(測站 Y)等觀測波浪資料，係經濟部 水利署(WRA)提供，謹致謝忱。

其他福隆海上浮標(測站 R)、灣裡海上浮標(測站 R)、南灣海上浮標(測站 R)及金門后江灣海上浮標(測站 Z) 觀測波浪儀，係 國立成功大學水文中心(COMC)裝設；基隆海域附近海上浮標(測站 Z)觀測波浪儀，係 國立臺灣海洋大學(NTOC)裝設；彰濱外海浮標站(測站 Y)波浪儀，係 海科中心(TORI)所設置；龜山島外海浮標站(測站 Z)之波浪儀屬 觀光局東北角管理處(TBRC)所設置；曾文溪外海浮標(測站 V)及鹿耳門溪口外海浮標(測站 U)波浪儀屬 觀台灣中油(CPC)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。

第 0 章臺灣 12 海域觀測波浪資料蒐集

本年報將彙整包括本所港研中心(IHMT)、氣象局(CWB)、水利署(WRA)、成功大學水文中心(COMC)、國立臺灣海洋大學(NTOC)、海科中心(TORI)、觀光局東北角管理處(TBRC)、台灣中油(CPC)等單位，於臺灣北苗海域、北端海域、宜蘭海域、花蓮海域、臺東海域、屏東海域、高雄海域、嘉南海域、中雲海域、澎湖海域、金門海域及馬祖海域等 12 個海域，海域區分如附圖 A1。臺灣 12 海域觀測波浪資料測站統計表如表 V1。

表 V1 臺灣 12 海域觀測波浪資料測站統計表

編號	海域名稱	測站總數	IHMT 測站	CWB 測站	WRA 測站	其他 測站	備註
1	北苗海域	2	1	1	0	0	
2	北端海域	5	1	3	0	1	
3	宜蘭海域	4	1	0	1	2	
4	花蓮海域	2	1	1	0	0	
5	臺東海域	4	1	2	1	0	
6	屏東海域	4	0	1	2	1	
7	高雄海域	5	4	0	1	0	
8	嘉南海域	7	2	0	2	3	
9	中雲海域	6	1	1	0	4	
10	澎湖海域	5	2	2	1	0	
11	金門海域	4	2	0	1	1	
12	馬祖海域	7	6	1	0	0	
	合計	51	21	10	9	11	

註:資料更新時間為 2019 年。

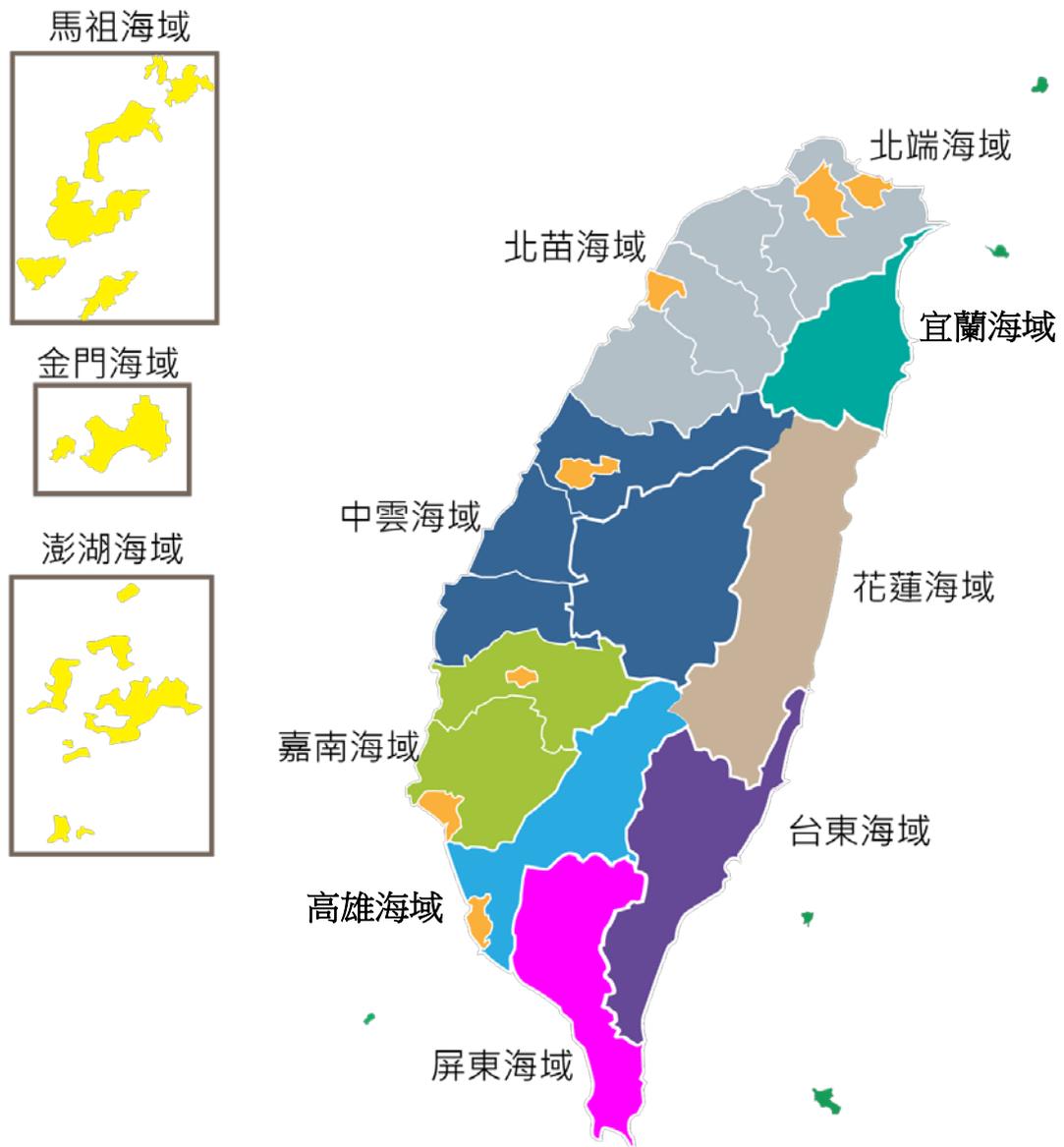


圖 A1 臺灣 12 海域區分示意圖

2019 年北苗海域觀測波浪資料

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

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

波浪觀測 AWAC 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。AWAC 波向量測範圍：波向的量測從海面下 3 米以上的流向資料與波高資料計算轉換而得。對攪動的海況來說；用於轉換波向的該層深度應該自動被調整為平均水位也就是 $H_{max}/2$ 。量測的參數為：平均波向及波向分佈，波向單位為度。

表 VP1 北苗海域觀測波浪資料蒐集概況表(統計時間至 2019 年 11 月)

測站	緯度	經度	觀測期間	觀測單位	備註
X0	25°10'44"N	121°22'41"E	1996/10-2004/09	港研中心	台北港舊觀測樁
X1	25°10'54"N	121°22'33"E	2005/01-2019/11(觀測中)	港研中心	台北港新觀測樁
Y	24°45'39N	120°50'38"E	1997/06-2019/11(觀測中)	中央氣象局	新竹浮標站

北苗海域

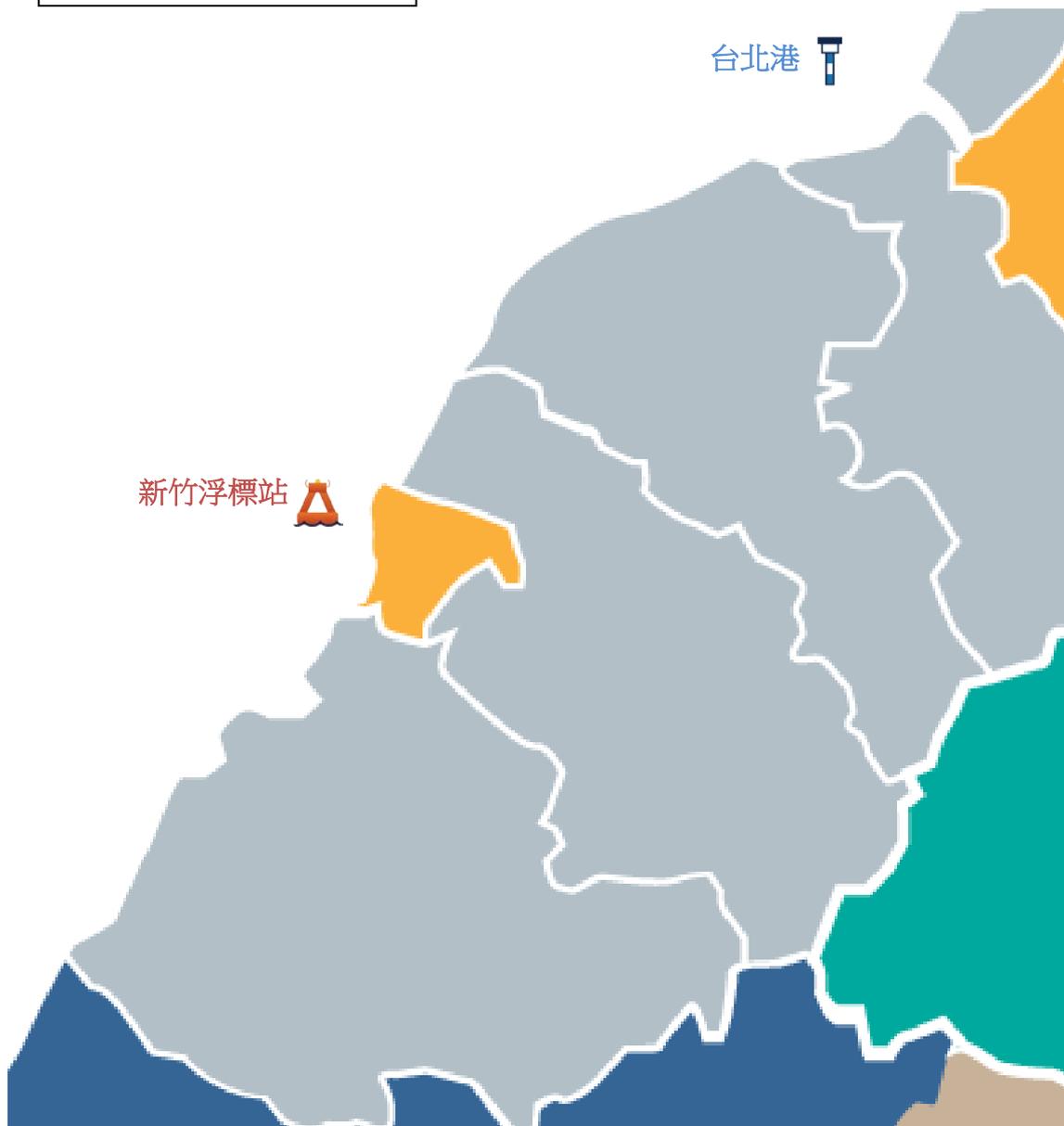


圖 VP1 北苗海域波浪觀測站位置示意圖

2019 年北端海域觀測波浪資料

北端海域(富貴角~龍洞)波浪觀測，本中心(IHMT)於 2001 年 6 月安置 NORTEK 剖面海流表面波浪與潮汐之監測系統(簡稱 AWAC)，在基隆港東防波堤堤頭外水深 44m 處(測站 X0)，如附圖 VK1，2006 年 8 月因防波堤延伸工程，移至西防波堤堤外水深 36m 位置(測站 X1)。2011 年 8 月，再移至東防波堤堤頭北方約 200m，水深 48m(測站 X2)。

測站 Y(龍洞外海浮標站)、測站 R(富貴角外海浮標站)及測站 U(彭佳嶼外海浮標站)波浪儀屬中央氣象局(CWB)所有，測站 Z(基隆外海浮標站)波浪儀為國立臺灣海洋大學(NOTC)裝設。北端海域各測站歷年觀測波浪資料蒐集概況如表 VK1。

波浪觀測 AWAC 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。AWAC 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 VK1 北端海域觀測波浪資料蒐集概況表(統計時間至 2019 年 11 月)

測站	緯度	經度	觀測期間	觀測單位	備註
X0	25°09'50"N	121°45'14"E	2001/06-2006/05	港研中心	基隆港東堤外海
X1	25°44'58"N	121°44'58"E	2006/08-2011/07	港研中心	基隆港西堤外海
X2	25°09'57"N	121°45'17"E	2011/08-2019/11(觀測中)	港研中心	基隆港東堤外海
Y	25°05'54"N	121°55'22"E	1998/09-2019/11(觀測中)	中央氣象局	龍洞浮標站
Z	25°09'17"N	121°47'06"E	2012/05-2019/11(觀測中)	臺灣海洋大學	基隆浮標站
R	25°18'15"N	121°32'05"E	2015/07-2019/11(觀測中)	中央氣象局	富貴角浮標
U	25°37'31"N	122°04'32"E	2019/07-2019/11(觀測中)	中央氣象局	彭佳嶼浮標

北端海域



圖 VK1 北端海域波浪觀測站位置示意圖

2019 年宜蘭海域觀測波浪資料

宜蘭海域波浪之觀測本中心(IHMT)於 2002 年 7 月 19 日於蘇澳港外約 700m 附近(稱測站 X)，水深約 25 公尺處設置挪威 NORTEK 公司之剖面海流與表面波浪(波高、週期及波向)即時傳送監測系統(簡稱 AWAC)波浪觀測站，其位置如附圖 VS1。

測站 Y(蘇澳外海浮標站)之波浪儀屬水利署(WRA)所有，測站 Z(龜山島外海浮標站)之波浪儀屬觀光局東北角管理處(TBRC)所設置。福隆海上浮標(測站 R)觀測風力，係國立成功大學水文中心(COMC)所裝設。蘇澳海域各測站歷年觀測波浪資料蒐集概況如表 VS1。

波浪觀測 AWAC 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。AWAC 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 VS1 宜蘭海域觀測波浪資料蒐集概況表(統計時間至 2019 年 11 月)

測站	緯度	經度	觀測期間	觀測單位	備註
X	24°35'23"N	121°53'07"E	2002/08-2019/11(觀測中)	港研中心	AWAC 蘇澳港
Y	24°37'38"N	121°52'36"E	1999/09-2019/11(觀測中)	水利署	蘇澳浮標站
Z	24°50'52"N	121°55'39"E	2002/05-2019/11(觀測中)	觀光局	龜山島浮標站
R	22°18'50"N	120°21'50"E	2006/04-2008/08	水文中心	福隆浮標站

宜蘭海域

 IHMT 波潮流站	 COMC 福隆浮標波浪站
 WRA 浮標波浪站	 TBRC 龜山島浮標波浪站

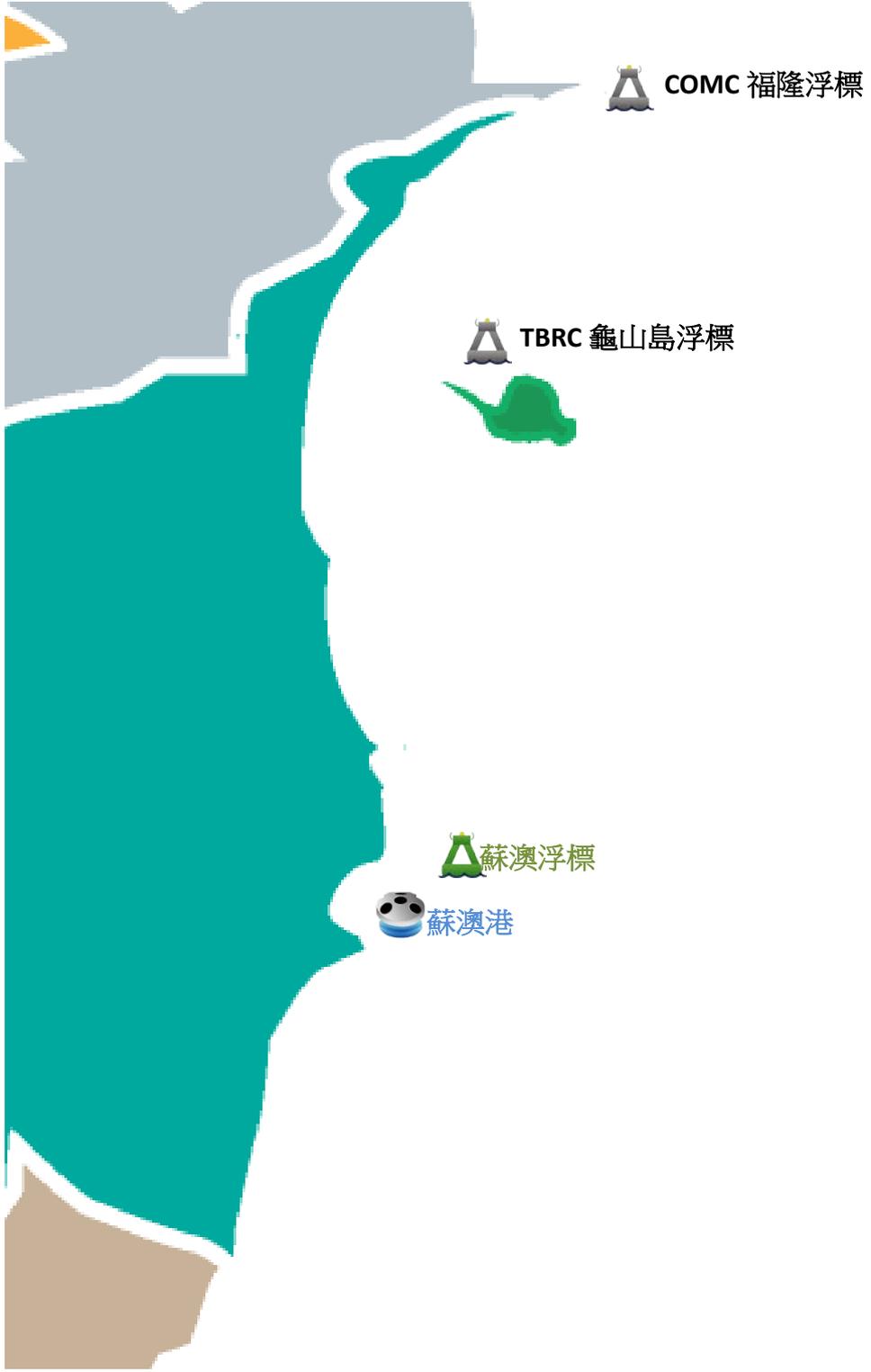


圖 VS1 宜蘭海域波浪觀測站位置示意圖

2019 年花蓮海域觀測波浪資料

花蓮海域波浪觀測本中心(IHMT)在花蓮港東防波堤往南延長 380 公尺水深 34 公尺處(稱測站 X),於 2001 年 8 月安裝挪威 NORTEK 公司之剖面海流與表面波浪(波高、週期及波向)即時傳送監測系統(簡稱 AWAC),如附圖 VL1。

測站 Y(七星潭外海浮標站)之波浪儀屬中央氣象局(CWB)所有。花蓮海域各測站歷年觀測波浪資料蒐集概況如表 VL1。

波浪觀測 AWAC 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。AWAC 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 VL1 花蓮海域觀測波浪資料蒐集概況表(統計時間至 2019 年 11 月)

測站	緯度	經度	觀測期間	觀測單位	備註
X	23°58'00"N	121°37'34"E	2000/09-2019/11(觀測中)	港研中心	花蓮港東堤外海
Y	24°01'58"	121°37'50"E	1997/07-2019/11(觀測中)	中央氣象局	花蓮浮標站

花蓮海域

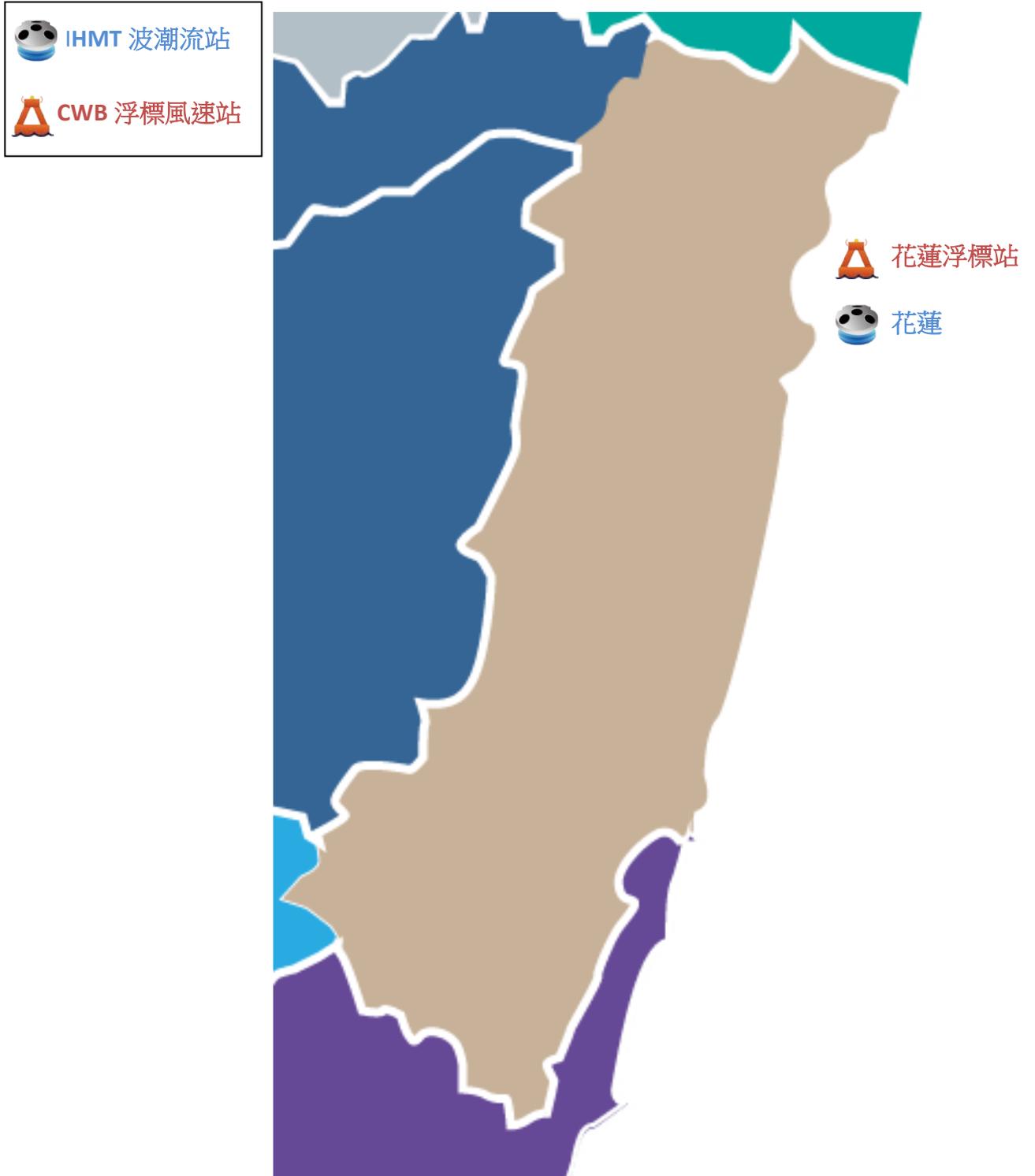


圖 VL1 花蓮海域波浪觀測站位置示意圖

2019 年臺東海域觀測波浪資料

臺東海域綠島南寮港波浪之觀測係 2014 年 10 月本中心(IHMT)於南寮港南防波堤外處(測站 X) 挪威 NORTEK 公司之剖面海流與表面波浪(波高、週期及波向)即時傳送監測系統(簡稱 AWAC)波浪觀測站，其位置如附圖 VJ1。

測站 Z(蘭嶼浮標站)及測站 R(遠洋浮標站)之波浪儀屬中央氣象局(CWB)所有，測站 Y(台東外海浮標站)波浪儀也皆屬水利署(WRA)所有。臺東海域各測站歷年觀測波浪資料蒐集概況如表 VJ1。

波浪觀測 AWAC 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。AWAC 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 VJ1 臺東海域觀測波浪資料蒐集概況表(統計時間至 2019 年 11 月)

測站	緯度	經度	觀測期間	觀測單位	備註
X	22°39'30"N	121°28'14"E	2014/10-2019/09	港研中心	綠島南寮港區外海
Y	22°43'27"N	121°08'40"E	2010/09-2019/11(觀測中)	水利署	台東外海浮標站
Z	22°04'18"N	121°34'33"E	2017/09-2019/11(觀測中)	中央氣象局	蘭嶼浮標站
R	21°40'36"N	124°03'48"E	2009/08-2019/11	中央氣象局	遠洋浮標站

臺東海域



圖 VJ1 臺東海域波浪觀測站位置示

2019 年屏東海域觀測波浪資料

屏東海域波浪之觀測小琉球海上浮標(測站 Y) 屬中央氣象局(CWB)所有，測站之位置如圖 VD1。

測站 Z(鵝鑾鼻外海浮標站)、測站 U(大鵬灣海上浮標站) 之波浪儀則屬水利署(WRA)所有。

南灣海上浮標(測站 R) 波浪儀，係國立成功大學水文中心(COMC)裝設。各測站歷年觀測風資料蒐集概況如表 VD1。

表 VD1 屏東海域觀測波浪資料蒐集概況表(統計時間至 2019 年 11 月)

測站	緯度	經度	觀測期間	觀測單位	備註
Y	22°18'50"N	120°21'50"E	2003/11-2019/11(觀測中)	中央氣象局	小琉球浮標站
Z	21°54'01"N	120°49'21"E	2000/10-2019/11(觀測中)	水利署	鵝鑾鼻浮標站
U	22°18'50"N	120°21'50"E	2002/11-2013/08	水利署	大鵬灣浮標
R	22°18'50"N	120°21'50"E	2003/11-2019/11(觀測中)	水文中心	南灣海上浮標

屏東海域



圖 VD1 屏東海域波浪觀測站位置示意圖

2019 年高雄海域觀測波浪資料

高雄海域波浪觀測係本中心(IHMT)2000 年 12 月於中區污水處理廠附近海域安置 NORTEK 公司之剖面海流與波浪即時監測系統(測站 X0)，如圖 VH1，以進行長期觀測。本站於 2005 年 8 月移至第二港口附近海(稱測站 X1)，水深約 18m;另於 2014 年 4 月及 12 月分別於第一港口及第二港口附近海(測站 A 及測站 1、測站 2)，增設潮波儀站。

測站 Z(彌陀外海浮標站)之波浪儀則屬水利署(WRA)所有。高雄海域各測站歷年觀測波浪資料蒐集概況如表 VH1。

波浪觀測 AWAC 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。AWAC 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 VH1 高雄海域觀測波浪資料蒐集概況表(統計時間至 2019 年 11 月)

測站	緯度	經度	觀測期間	觀測單位	備註
X0	22°34'23"N	120°16'09"E	2000/12-2005/08	港研中心	高雄中洲外海
X1	22°32'34"N	120°17'38"E	2005/08-2019/11(觀測中)	港研中心	高雄 2 港口外海
A	22°38'36"N	120°14'13"E	2014/04-2015/03	港研中心	高雄 1 港口外海
1			2014/12-2015/12	港研中心	高雄 2 港口外海
2			2015/12-2017/10	港研中心	高雄 2 港口外海
Z	22°45'50"N	120°09'49"E	2012/09-2019/11(觀測中)	水利署	彌陀外海浮標站

高雄海域



IHMT 波潮流站



WRA 浮標波浪站



圖 VH1 高雄海域波浪觀測站位置示意圖

2019 年嘉南海域觀測波浪資料

嘉南海域波浪觀測係本中心(IHMT)利用位於安平港海上觀測樁頂水下 5 米處(稱測站 X0)之 Inter Ocean S-4ADW 潮波儀所測得，如附圖 VB1，因 S-4 觀測儀器老舊，目前已更換為 NORTEK 公司之剖面海流表面波浪與潮汐之監測系統(AWAC)，觀測資料至觀測樁於 2011 年 7 月拆除為止。2011 年 7 月於南堤外海增設(AWAC (稱測站 X1))。本中心 2006 年 6 月於布袋港外附近(稱測站 A)水深約 7 公尺處設置 AWAC

測站 Y(七股外海浮標站)及測站 Z(七股雷達站)之波浪儀屬水利署(WRA)所有；曾文溪外海浮標(測站 V)、鹿耳門溪口外海浮標(測站 U) 波浪儀屬觀台灣中油(CPC)所設置。灣裡海上浮標(測站 R)觀測波浪儀，係國立成功大學水文中心(COMC)裝設。嘉南海域各測站歷年觀測波浪資料蒐集概況如表 VB1。

波浪觀測 AWAC 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。AWAC 波向量測的參數為：平均波向及波向分佈，波向單位為度。

表 VB1 嘉南海域觀測波浪資料蒐集概況表(統計時間至 2019 年 11 月)

測站	緯度	經度	觀測期間	觀測單位	備註
X0	22°56'37"N	120°08'10"E	1999/10-2011/07	港研中心	安平港觀測樁
X1	22°57'22"N	120°08'53"E	2010/12-2019/11(觀測中)	港研中心	安平港南堤
Y	23°05'55"	120°00'20"E	2006/06-2019/11(觀測中)	水利署	七股浮標站
Z	23°06'48"	120°03'8"E	2005/10-2019/11(觀測中)	水利署	七股雷達站
A0	23°22'49"N	120°07'29" E	2006/06-2010/03	港研中心	AWAC 布袋港
A1	23°22'37"N	120°07'26"E	2012/08-2014/11(觀測中)	港研中心	AWAC 布袋港
V	23°04'29"N	119°57'40"E	2013/08-2014/09	臺灣中油	曾文浮標站
U	22°59'22"N	120°02'26"E	2015/09-2019/11(觀測中)	臺灣中油	鹿耳門浮標站
R	22°54'54"N	129°09'55"E	2015/06-2016/10	水文中心	灣裡浮標站

嘉南海域

 IHMT 波潮流站	 IHMT 觀測樁波潮流站
 WRA 浮標波浪站	 CPC 及 COMC 浮標波浪站



圖 VB1 嘉南海域波浪觀測站位置示意圖

2019 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 V(台中港外海浮標站)之波浪儀屬中央氣象局所有。**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 AWAC 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。AWAC 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 2019 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	2003/07-2019/11(觀測中)	港研中心	北堤外海
Y	24°01'12"N	120°13'59"E	2006/08-2016/12	海科中心	彰濱外海浮標站
Z	24°06'24"N	119°41'33"E	2016/09-2017/09	中興工程	彰化外海一浮標
R	24°06'56"N	119°51'08"E	2016/09-2017/09	中興工程	彰化外海二浮標
U	24°03'23"N	128°08'01"E	2016/12-2017/12	中興工程	彰化外海 B 區
V	24°12'39"N	120°24'34"E	2019/08-2019/11(觀測中)	中央氣象局	台中港外海浮標

中雲海域

	IHMT 波潮流站
	TORI 浮標波浪站
	CWB 浮標波浪站



圖 VG1 中雲海域波浪觀測站位置示意圖

2019 年澎湖海域觀測波浪資料

澎湖海域波浪之觀測，本中心於(IHMT)2011 年 1 月安置挪威 NORTEK 公司之剖面海流表面波浪與潮汐之監測系統(簡稱 AWAC)，安裝在澎湖港龍門尖山港區波堤堤頭外(測站 X)，另 2016 年 1 月安置 AWAC 在澎湖馬公港口外(測站 A)，如附圖 VN1。

測站 Y(澎湖外海浮標站)之波浪儀屬水利署(WRA)所有，姑婆嶼北北西方約 1 公里處，水深 26.6 公尺浮標上。測站 Z(東吉島波浪站)及七美海上浮標(測站 R)之波浪儀屬中央氣象局(CWB)所有。各觀測站歷年觀測波浪資料蒐集概況如表 VN1。

波浪觀測 AWAC 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。AWAC 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 VN1 澎湖海域觀測波浪資料蒐集概況表(統計時間至 2019 年 11 月)

測站	緯度	經度	觀測期間	觀測單位	備註
X	23°33'21"N	119°40'31"E	2011/01-2019/09	港研中心	龍門尖山港外海
Y	23°43'37"N	119°33'07"E	2006/09-2019/11(觀測中)	水利署	澎湖資料浮標
Z	23°15'23"N	119°41'2"E	2013/10-2014/12	中央氣象局	東吉島波浪站
R	22°45'16"N	119°25'42"E	2015/07-2019/11(觀測中)	中央氣象局	七美資料浮標
A	23°33'32"N	119°33'19"E	2016/01-2019/09	港研中心	馬公港外海

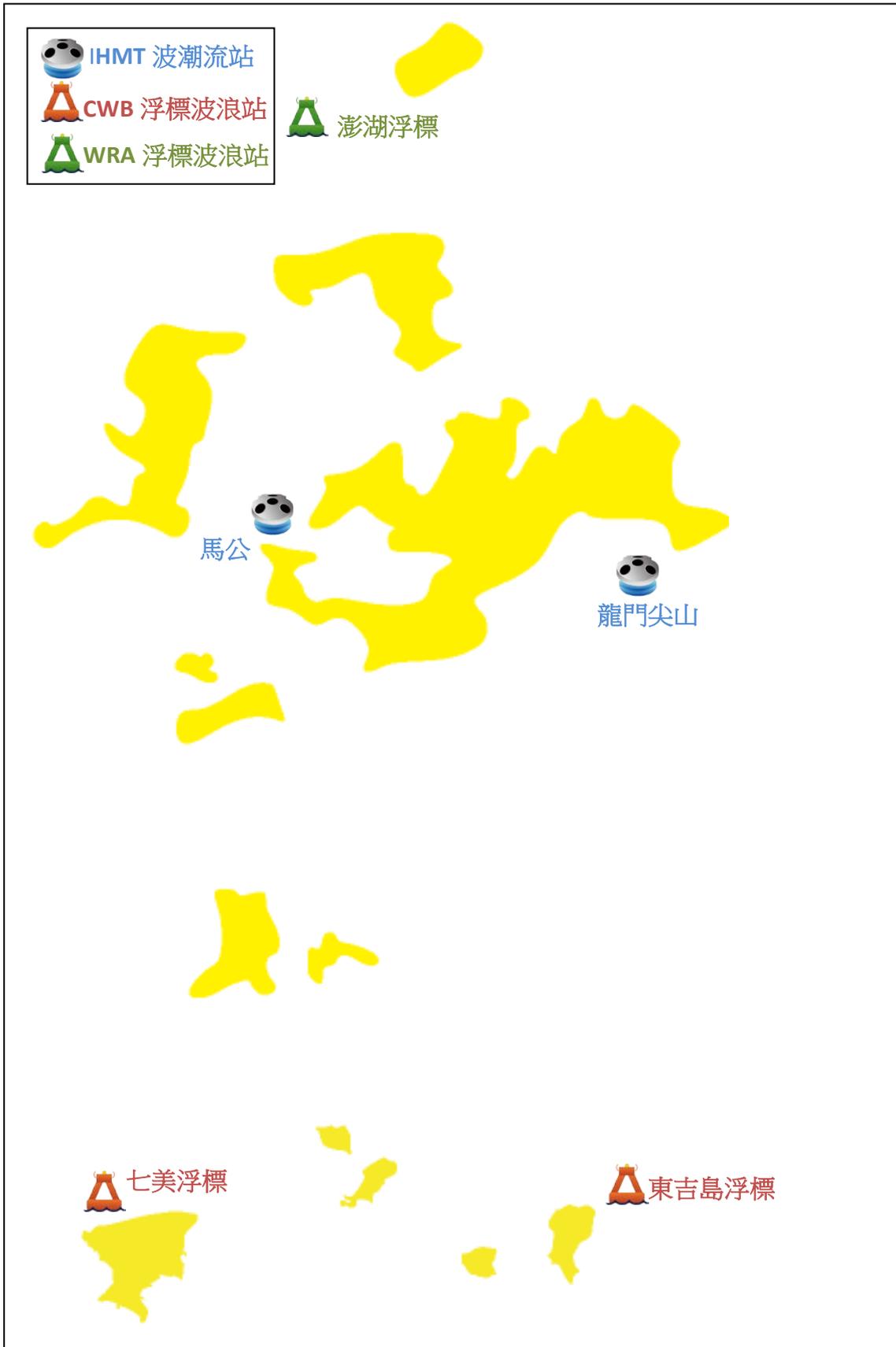


圖 VN1 澎湖海域波浪觀測站位置示意圖

2019 年金門海域觀測波浪資料

金門海域波浪之觀測 2013 年 12 月本中心(IHMT)安裝挪威 NORTEK 公司表面波浪監測系統於金門港料羅港區(測站 X)及水頭港區(測站 A)，其位置如附圖 VM1。

測站 Y 外海浮標站之波浪儀屬水利署(WRA)所有，測站 Z 外後江灣小浮標之波浪儀屬近海水文中心(COMC)設置。金門海域各測站歷年觀測波浪資料蒐集概況如表 VM1。

波浪觀測 AWAC 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。AWAC 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 VM1 金門海域觀測波浪資料蒐集概況表(統計時間至 2019 年 11 月)

測站	緯度	經度	觀測期間	觀測單位	備註
X	24°24'17"N	118°25'19"E	2014/02-2018/09	港研中心	羅港港區外海
A	24°25'8"N	118°16'41"E	2014/02-2018/09	港研中心	水頭港區外海
Y	24°22'48"N	118°24'41"E	2000/07-2019/11(觀測中)	水利署	金門資料浮標
Z	24°30'27"N	118°22'24"E	2013/12-2014/07	水文中心	后江灣小浮標

金門海域

-  IHMT 波潮流站
-  WRA 浮標波浪站
-  COMC 浮標波浪站



圖 VM1 金門海域波浪觀測站位置示意圖

2019 年馬祖海域觀測波浪資料

馬祖海域風之觀測係 2014 年 10 月本中心(IHMT)安裝挪威 NORTEK 公司潮波流儀(AWAC)於馬祖福澳港區(稱**測站 X**)，其位置如附圖 VU1。2015 年 9 月本中心於北竿、西莒、東引及東莒等 4 處增設潮波流儀 AWAC(稱**測站 A**、**測站 1**、**測站 2**及**測站 3**)。2019 年 8 月本中心於南竿增設潮波流儀 AWAC(稱**測站 4**)。

測站 Y 之波浪儀也屬屬中央氣象局(CWB)所有。馬祖海域各測站歷年觀測波浪資料蒐集概況如表 VU1。

波浪觀測 AWAC 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。AWAC 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 VU1 馬祖海域觀測波浪資料蒐集概況表(統計時間至 2019 年 11 月)

測站	緯度	經度	觀測期間	觀測單位	備註
X	26°09'87"N	119°56'11"E	2014/10-2019/11(觀測中)	港研中心	馬祖福澳港 AWAC
A	26°12'18"N	119°58'1 "E	2015/09-2019/11(觀測中)	港研中心	北竿港區 AWAC
1	25°58'8 "N	119°55'54 "E	2015/09-2016/10	港研中心	西莒 AWAC
2	26°21'55 "N	120°29'2 "E	2015/09-2019/11(觀測中)	港研中心	東引 AWAC
3	25°57'31 "N	119°57'47 "E	2015/09-2019/11(觀測中)	港研中心	東莒 AWAC
Y	26°22'36"N	120°31'53"E	2010/08-2019/11(觀測中)	中央氣象局	馬祖資料浮標
4	26°10'07"N	119°56'20"E	2019/08-2019/11(觀測中)	港研中心	南竿港區 AWAC

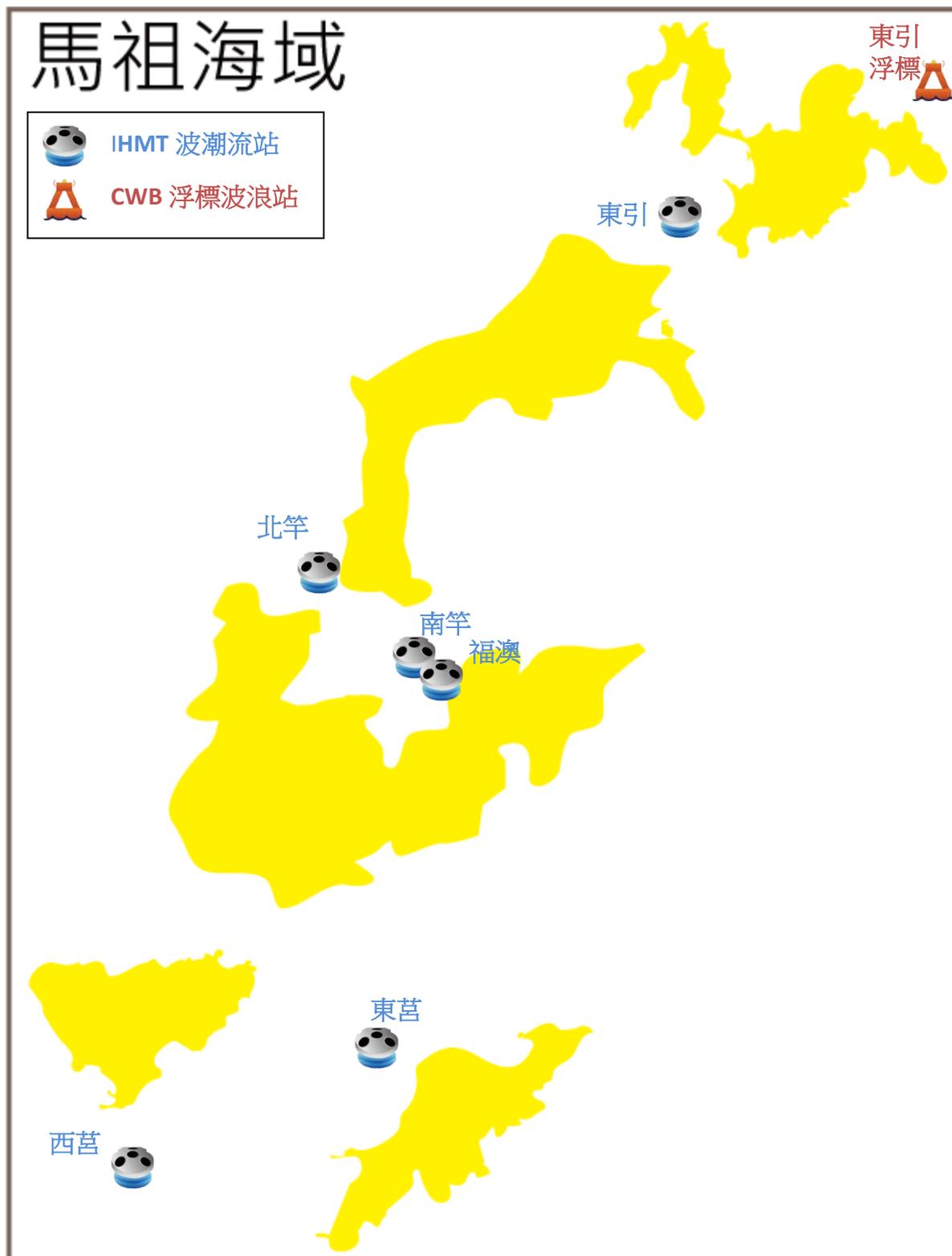


圖 VU1 馬祖海域波浪觀測站位置示意圖

第一章 2019 年 12 海域觀測波浪資料圖表

北苗海域(新北~苗栗)波浪之觀測包括測站 **X** 及測站 **Y** 等 2 個測站(測站位置如第 0 章圖 VP1，各測站歷年觀測波浪資料蒐集概況如表 VP1)。本年報取經檢核及補遺之 **X 站** 資料作為主要測站 1，**Y 站** 資料作為主要測站 2。

北端海域(富貴角~龍洞)波浪觀測包括測站 **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 0 章圖 VK1，各測站歷年觀測波浪資料蒐集概況如表 VK1)。本年報取經檢核及補遺之 **X 站** 資料作為主要測站 1，**Y 站** 資料作為主要測站 2。

宜蘭海域波浪之觀測包括測站 **X**、測站 **Y** 及測站 **Z** 等 3 個測站(測站位置如第 0 章圖 VS1，各測站歷年觀測波浪資料蒐集概況如表 VS1)。本年報取經檢核及補遺之 **X 站** 資料作為主要測站 1，**Y 站** 資料作為主要測站 2。

花蓮海域波浪觀測包括測站 **X** 及測站 **Y** 等 2 個測站(測站位置如第 0 章圖 VL1，各測站歷年觀測波浪資料蒐集概況如表 VL1)。本年報取經檢核及補遺之 **X 站** 資料作為主要測站 1，**Y 站** 資料作為主要測站 2。

臺東海域波浪觀測包括測站 **X**、測站 **Y** 及測站 **Z** 等 3 個測站(測站位置如第 0 章圖 VJ1，各測站歷年觀測波浪資料蒐集概況如表 VJ1)。本年報取經檢核及補遺之 **Y 站** 資料作為主要測站 1，**X 站** 資料作為主要測站 2。

屏東海域波浪觀測包括測站 **Y**、測站 **Z**、測站 **U** 及測站 **R** 等 4 個測站(測站位置如第 0 章圖 VD1，各測站歷年觀測波浪資料蒐集概

況如表 VD1)。本年報取經檢核及補遺之 **Y 站** 資料作為主要測站 1，**Z 站** 資料作為主要測站 2。

高雄海域波浪觀測包括測站 **X** 及測站 **Z** 等 2 個測站(測站位置如第 O 章圖 VH1，各測站歷年觀測波浪資料蒐集概況如表 VH1)。本年報取經檢核及補遺之 **X 站** 資料作為主要測站 1，**Z 站** 資料作為主要測站 2。

嘉南海域波浪觀測包括測站 **X**、測站 **Y**、測站 **Z**、測站 **A** 及測站 **U** 等 5 個測站(測站位置如第 O 章圖 VB1，各測站觀測波浪資料蒐集概況如表 VB1)。本年報取經檢核及補遺之 **X 站** 資料作為主要測站 1，**A 站** 資料作為主要測站 2。

中雲海域波浪觀測包括測站 **X**、及測站 **V** 等 2 個測站(測站位置如第 O 章圖 VG1，各測站歷年觀測波浪資料蒐集概況如表 VG1)。本年報取經檢核及補遺之 **X 站** 資料作為主要測站 1，**Y 站** 資料作為主要測站 2。

澎湖海域波浪觀測包括測站 **X**、測站 **Y**、測站 **R** 及測站 **A** 等 4 個測站(測站位置如第 O 章圖 VN1，各測站歷年觀測波浪資料蒐集概況如表 VN1)。本年報取經檢核及補遺之 **Y 站** 資料作為主要測站 1，**X 站** 資料作為主要測站 2。

金門海域波浪觀測僅測站 **Y** (測站位置如第 O 章圖 VM1，各測站歷年觀測波浪資料蒐集概況如表 VM1)。本年報取經檢核及補遺之 **Y 站** 資料作為主要測站 1，**X 站** 資料作為主要測站 2。

馬祖海域波浪觀測包括測站 **X**、測站 **Y**、測站 **A**、測站 **2**、測站 **3** 及測站 **4** 等 6 個測站(測站位置如第 O 章圖 VU1，各測站歷年觀測波浪資料蒐集概況如表 VU1)。本年報取經檢核及補遺之 **Y 站** 資料作為主要測站 1，**X 站** 資料作為主要測站 2。

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

本**波浪**年報資料處理之圖表包括：

1. 第二章：2019 年 12 海域**主要測站 1** 之每月(季)及整年風速及風向重要統計量統計表。
2. 第三章：2019 年 12 海域**主要測站 1** 修補前後每月波浪歷線比較圖。
3. 第四章：2019 年 12 海域**主要測站 1** 修補前後每月波高向量分佈圖。
4. 第五章：2019 年 12 海域**主要測站 2** 之每月(季)及整年示性波高週期及波向重要統計量統計表。
5. 第六章：2019 年 12 海域**主要測站 2** 修補前後每月波浪歷線比較圖。
6. 第七章：2019 年 12 海域**主要測站 2** 修補前後每月波高向量分佈圖。

表 1.1a 2019 年每月 12 個海域波浪主要觀測 1 站修補前資料紀錄表

海域	北苗海域	北端海域	宜蘭海域	花蓮海域	臺東海域	屏東海域	高雄海域	嘉南海域	中雲海域	澎湖海域	金門海域	馬祖海域
年月/測站	X	X	X	X	Y	Y	X	X	X	Y	Y	Y
2018/12 月	471(63.3%)	*	*	744(100%)	578(77.7%)	662(89.0%)	675(90.7%)	124(16.7%)	730(98.1%)	124(16.7%)	580(78.0%)	573(77.0%)
2019/ 1 月	*	*	*	742(99.7%)	724(97.3%)	730(98.1%)	691(92.9%)	*	744(100%)	695(93.4%)	675(90.7%)	366(49.2%)
2019/ 2 月	*	*	*	672(100%)	660(98.2%)	642(95.5%)	621(92.4%)	*	672(100%)	660(98.2%)	652(97.0%)	635(94.5%)
2019/ 3 月	224(30.1%)	278(37.4%)	415(55.8%)	713(95.8%)	730(98.1%)	723(97.2%)	674(90.6%)	*	739(99.3%)	734(98.7%)	636(85.5%)	681(91.5%)
2019/ 4 月	713(99.0%)	720(100%)	720(100%)	720(100%)	697(96.8%)	688(95.6%)	657(91.3%)	*	718(99.7%)	584(81.1%)	644(89.4%)	698(96.9%)
2019/ 5 月	744(100%)	733(98.5%)	718(96.5%)	601(80.8%)	719(96.6%)	717(96.4%)	683(91.8%)	*	736(98.9%)	539(72.4%)	674(90.6%)	723(97.2%)
2019/ 6 月	672(93.3%)	633(87.9%)	695(96.5%)	720(100%)	636(88.3%)	647(89.9%)	664(92.2%)	*	715(99.3%)	628(87.2%)	544(75.6%)	647(89.9%)
2019/ 7 月	476(64.0%)	672(90.3%)	737(99.1%)	744(100%)	617(82.9%)	615(82.7%)	717(96.4%)	272(36.6%)	743(99.9%)	629(84.5%)	483(64.9%)	626(84.1%)
2019/ 8 月	695(93.4%)	704(94.6%)	562(75.5%)	738(99.2%)	680(91.4%)	*	534(71.8%)	*	741(99.6%)	676(90.9%)	559(75.1%)	693(93.1%)
2019/ 9 月	712(98.9%)	720(100%)	460(63.9%)	717(99.6%)	553(76.8%)	122(16.9%)	270(37.5%)	*	717(99.6%)	546(75.8%)	461(64.0%)	561(77.9%)
2019/10 月	738(99.2%)	741(99.6%)	*	681(91.5%)	691(92.9%)	702(94.4%)	*	635(85.3%)	729(98.0%)	673(90.5%)	581(78.1%)	690(92.7%)
2019/11 月	711(98.8%)	56(7.8%)	*	*	705(97.9%)	720(100%)	*	709(98.5%)	698(96.9%)	705(97.9%)	562(78.1%)	719(99.9%)

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表 1.1b 2019 年每月 12 個海域波浪主要觀測 1 站修補後資料紀錄表

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

表 1.2a 2019 年每月 12 個海域波浪主要觀測 2 站修補前資料紀錄表

海域	北苗海域	北端海域	宜蘭海域	花蓮海域	臺東海域	屏東海域	高雄海域	嘉南海域	中雲海域	澎湖海域	金門海域	馬祖海域
年月/測站	Y	Y	Y	Y	X	Z	Z	A	Y	X	X	X
2018/12 月	652(87.6%)	619(83.2%)	646(86.8%)	652(87.6%)	738(99.2%)	660(88.7%)	574(77.2%)	*	*	744(100%)	*	733(98.5%)
2019/ 1 月	721(96.9%)	286(38.4%)	710(95.4%)	736(98.9%)	738(99.2%)	711(95.6%)	602(80.9%)	*	*	744(100%)	*	736(98.9%)
2019/ 2 月	652(97.0%)	73(10.9%)	642(95.5%)	660(98.2%)	671(99.9%)	654(97.3%)	517(76.9%)	*	*	672(100%)	*	407(60.6%)
2019/ 3 月	547(73.5%)	201(27.0%)	726(97.6%)	743(99.9%)	738(99.2%)	731(98.3%)	582(78.2%)	*	*	744(100%)	*	727(97.7%)
2019/ 4 月	693(96.3%)	697(96.8%)	698(96.9%)	720(100%)	719(99.9%)	709(98.5%)	572(79.4%)	*	*	443(61.5%)	*	639(88.8%)
2019/ 5 月	698(93.8%)	729(98.0%)	717(96.4%)	735(98.8%)	743(99.9%)	725(97.4%)	574(77.2%)	594(79.8%)	*	713(95.8%)	*	740(99.5%)
2019/ 6 月	607(84.3%)	645(89.6%)	641(89.0%)	656(91.1%)	704(97.8%)	639(88.8%)	554(76.9%)	717(99.6%)	*	714(99.2%)	*	707(98.2%)
2019/ 7 月	621(83.5%)	636(85.5%)	618(83.1%)	642(86.3%)	742(99.7%)	630(84.7%)	450(60.5%)	631(84.8%)	*	743(99.9%)	*	738(99.2%)
2019/ 8 月	681(91.5%)	695(93.4%)	681(91.5%)	708(95.2%)	743(99.9%)	686(92.2%)	500(67.2%)	*	*	538(72.3%)	*	617(82.9%)
2019/ 9 月	565(78.5%)	569(79.0%)	497(69.0%)	567(78.8%)	220(30.6%)	536(74.4%)	416(57.8%)	*	*	*	*	704(97.8%)
2019/10 月	694(93.3%)	701(94.2%)	664(89.2%)	701(94.2%)	*	623(83.7%)	525(70.6%)	620(83.3%)	*	*	*	736(98.9%)
2019/11 月	713(99.0%)	720(100%)	713(99.0%)	720(100%)	*	604(83.9%)	550(76.4%)	*	*	*	*	714(99.2%)

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表 1.2b 2019 年每月 12 個海域波浪主要觀測 2 站修補後資料紀錄表

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

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第二章 2019 年 12 海域波浪**主要測站 1** 修補前後波浪統計量統計表

(北苗海域)

(北端海域)

(宜蘭海域)

(花蓮海域)

(臺東海域)

(屏東海域)

(高雄海域)

(嘉南海域)

(中雲海域)

(澎湖海域)

(金門海域)

(馬祖海域)

表2.1a 2018年12月12個海域主要測站1修補前示性波高週期及波向重要統計量統計表

海域 (測站)	波高 蒐集率	H_s 平均 (m)	H_s 最大 (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/%
北苗(X)	63%	1.65	4.1/ 9.5/N	7.4	10.2	18.5	24.4	48.2	8.9	21.2	40.8	36.9	1.1	63%	19.1	.4	3.6	76.9	NNW/37%
北端(X)	0																		
宜蘭(X)	0																		
花蓮(X)	100%	1.72	3.0/10.9/E	9.1	11.5	.0	39.1	60.6	.3	.0	15.5	60.8	23.8	100%	42.4	56.8	.5	.3	E /60%
臺東(Y)	78%	1.83	3.5/ 6.9/ENE	6.8	9.1	.0	31.1	66.6	2.2	7.1	90.7	2.2	.0	78%	61.2	38.8	.0	.0	ENE/49%
屏東(Y)	89%	.75	1.5/ 6.2/SSE	5.2	6.9	15.9	84.1	.0	.0	87.5	12.5	.0	.0	89%	.2	47.7	32.0	20.1	SSE/24%
高雄(X)	91%	.73	1.5/10.8/WNW	6.8	11.5	17.0	83.0	.0	.0	49.3	20.0	15.0	15.7	91%	.0	.0	25.2	74.8	WNW/49%
嘉南(X)	17%	.54	1.0/ 7.1/W	5.5	8.5	42.7	57.3	.0	.0	75.0	21.8	3.2	.0	17%	.0	.8	91.9	7.3	WSW/36%
中雲(X)	98%	2.10	4.0/10.1/NNE	7.2	10.2	8.9	21.6	43.4	26.0	25.9	39.3	32.9	1.9	98%	95.3	.0	.0	4.7	NNE/78%
澎湖(Y)	17%	2.70	3.9/ 7.3/NW	5.9	7.3	.0	12.1	52.4	35.5	35.5	64.5	.0	.0	17%	21.0	.0	.0	79.0	NNW/71%
金門(Y)	78%	1.38	3.2/ 6.6/ENE	5.3	6.9	13.4	39.7	46.7	.2	87.1	12.9	.0	.0	78%	21.6	76.6	1.9	.0	E /58%
馬祖(Y)	77%	2.32	5.6/ 8.1/NE	5.7	8.1	.0	31.2	37.9	30.9	57.9	41.9	.2	.0	77%	73.6	26.0	.3	.0	NE /38%

表2.1b 2018年12月12個海域主要測站1修補後示性波高週期及波向重要統計量統計表

海域 (測站)	波高 蒐集	H_s 平均	H_s 最大 (波高/週期/波向)	T_p 平均	T_p 最大	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	波向 N~E	波向 E~S	波向 S~W	波向 W~N	主波向 (百分比) 來向/%
	率	(m)	(m/s/來向)	(s)	(s)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	率	(%)	(%)	(%)	(%)	
北苗(X)	100%	2.17	7.1/12.4/NNE	7.8	12.4	14.2	22.0	39.2	24.5	15.5	36.6	38.8	9.1	100%	47.2	.3	2.4	50.1	NNE/34%
北端(X)	100%	1.95	4.9/10.6/NE	8.2	11.1	.1	37.0	48.0	14.9	.7	40.6	54.8	3.9	100%	99.7	.1	.0	.1	NNE/50%
宜蘭(X)	100%	1.52	2.9/10.8/E	8.5	11.2	.0	50.4	49.6	.0	.0	30.0	64.7	5.4	100%	8.9	91.0	.0	.1	ESE/47%
花蓮(X)	100%	1.72	3.0/10.9/E	9.1	11.5	.0	39.1	60.6	.3	.0	15.5	60.8	23.8	100%	42.4	56.8	.5	.3	E /60%
臺東(Y)	100%	1.82	3.5/ 6.9/ENE	6.8	9.1	.0	30.9	67.3	1.7	6.0	92.1	1.9	.0	100%	57.1	42.9	.0	.0	ENE/42%
屏東(Y)	100%	.76	1.5/ 6.2/SSE	5.2	6.9	14.2	85.8	.0	.0	88.3	11.7	.0	.0	100%	.1	43.1	36.7	20.0	SSE/22%
高雄(X)	100%	.73	1.5/10.8/WNW	6.8	11.5	16.7	83.3	.0	.0	48.3	21.5	15.6	14.7	100%	.0	.0	25.1	74.9	WNW/49%
嘉南(X)	100%	.65	1.3/ 6.6/SW	6.0	8.5	19.2	80.8	.0	.0	48.5	50.9	.5	.0	100%	.1	.1	26.7	73.0	WNW/42%
中雲(X)	100%	2.13	4.0/10.1/NNE	7.2	10.4	8.9	21.2	42.6	27.3	25.5	38.6	33.9	2.0	100%	95.3	.0	.0	4.7	NNE/78%
澎湖(Y)	100%	1.83	3.9/ 7.3/NW	5.5	7.3	12.4	25.9	48.5	13.2	69.5	30.5	.0	.0	100%	86.4	.0	.0	13.6	NE /49%
金門(Y)	100%	1.34	3.2/ 6.6/ENE	5.2	6.9	11.4	45.8	42.6	.1	89.8	10.2	.0	.0	100%	21.5	77.0	1.5	.0	E /56%
馬祖(Y)	100%	2.25	5.6/ 8.1/NE	5.7	8.1	.5	34.4	35.8	29.3	65.1	34.8	.1	.0	100%	75.0	24.8	.3	.0	ENE/32%

表2.2a 2019年1月12個海域主要測站1修補前示性波高週期及波向重要統計量統計表

海域 (測站)	波高 蒐集率	H_s 平均 (m)	H_s 最大 (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/%
北苗(X)	0																		
北端(X)	0																		
宜蘭(X)	0																		
花蓮(X)	100%	1.58	2.8/ 9.4/ENE	8.4	13.0	.0	46.8	53.2	.0	1.8	28.8	64.3	5.1	99%	29.0	70.1	.8	.1	E /49%
臺東(Y)	97%	1.68	3.2/ 7.0/ENE	6.6	8.0	.0	43.0	55.8	1.2	15.1	84.5	.4	.0	97%	56.9	43.1	.0	.0	ENE/42%
屏東(Y)	98%	.87	1.4/ 6.7/SSE	5.5	7.1	.3	99.7	.0	.0	78.6	21.4	.0	.0	98%	.0	80.3	11.8	7.9	SSE/49%
高雄(X)	93%	.75	1.2/ 5.1/WNW	6.6	10.7	3.9	96.1	.0	.0	44.9	32.4	17.2	5.5	93%	.0	.0	40.2	59.8	WNW/38%
嘉南(X)	0																		
中雲(X)	100%	2.04	3.9/ 8.9/NNE	7.3	10.1	.7	22.8	64.7	11.8	9.1	65.3	25.3	.3	100%	98.3	.0	.0	1.7	NNE/77%
澎湖(Y)	93%	1.52	3.1/ 6.1/NNW	4.9	6.7	7.2	42.4	49.5	.9	95.5	4.5	.0	.0	93%	56.3	.0	.6	43.2	N /49%
金門(Y)	91%	1.23	3.1/ 6.6/E	5.2	6.7	6.2	63.4	30.2	.1	93.2	6.8	.0	.0	91%	40.7	58.8	.4	.0	E /44%
馬祖(Y)	49%	2.00	4.2/ 7.0/NE	5.5	7.1	.0	29.8	60.4	9.8	82.8	17.2	.0	.0	49%	80.1	19.9	.0	.0	NE /41%

表2.2b 2019年1月12個海域主要測站1修補後示性波高週期及波向重要統計量統計表

海域 (測站)	波高 蒐集	H_s 平均	H_s 最大 (波高/週期/波向)	T_p 平均	T_p 最大	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	波向 N~E	波向 E~S	波向 S~W	波向 W~N	主波向 (百分比) 來向/%
	率	(m)	(m/s/來向)	(s)	(s)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	率	(%)	(%)	(%)	(%)	
北苗(X)	100%	2.27	5.6/ 6.6/N	6.4	7.9	2.2	21.5	50.0	26.3	17.6	82.4	.0	.0	100%	75.7	.0	.9	23.4	N /73%
北端(X)	100%	1.73	4.2/ 9.6/NNE	7.8	9.6	.0	43.4	53.1	3.5	.0	59.7	40.3	.0	100%	99.9	.1	.0	.0	NE /50%
宜蘭(X)	100%	1.44	2.6/ 9.3/ESE	8.5	10.3	.0	61.6	38.4	.0	.0	16.1	83.1	.8	100%	18.5	81.5	.0	.0	ESE/46%
花蓮(X)	100%	1.58	2.8/ 9.4/ENE	8.4	13.0	.0	46.6	53.4	.0	1.7	28.8	64.4	5.1	100%	28.8	70.3	.8	.1	E /49%
臺東(Y)	100%	1.67	3.2/ 7.0/ENE	6.5	8.0	.0	43.7	55.1	1.2	16.7	82.9	.4	.0	100%	56.3	43.7	.0	.0	ENE/41%
屏東(Y)	100%	.87	1.4/ 6.7/SSE	5.5	7.1	.3	99.7	.0	.0	79.0	21.0	.0	.0	100%	.0	78.9	12.8	8.3	SSE/48%
高雄(X)	100%	.74	1.2/ 5.1/WNW	6.6	10.7	4.0	96.0	.0	.0	43.5	32.9	18.3	5.2	100%	.0	.1	41.1	58.7	WNW/37%
嘉南(X)	100%	.59	1.0/ 7.3/WNW	6.0	7.7	19.9	80.1	.0	.0	47.8	52.2	.0	.0	100%	.0	.8	28.4	70.8	W /46%
中雲(X)	100%	2.04	3.9/ 8.9/NNE	7.3	10.1	.7	22.8	64.7	11.8	9.1	65.3	25.3	.3	100%	98.3	.0	.0	1.7	NNE/77%
澎湖(Y)	100%	1.53	3.1/ 6.1/NNW	4.9	6.7	7.0	41.7	50.5	.8	94.2	5.8	.0	.0	100%	58.1	.0	.5	41.4	N /47%
金門(Y)	100%	1.22	3.1/ 6.6/E	5.1	6.7	5.9	65.7	28.2	.1	93.8	6.2	.0	.0	100%	41.7	57.9	.4	.0	E /42%
馬祖(Y)	100%	1.73	4.2/ 7.0/NE	5.3	7.1	3.0	41.0	49.5	6.6	91.5	8.5	.0	.0	100%	68.8	31.2	.0	.0	E /47%

表2.3a 2019年2月12個海域主要測站1修補前示性波高週期及波向重要統計量統計表

海域 (測站)	波高 蒐集	H_s 平均	H_s 最大 (波高/週期/波向)	T_p 平均	T_p 最大	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	波向 N~E	波向 E~S	波向 S~W	波向 W~N	主波向 (百分比) 來向/%
	率	(m)	(m/s/來向)	(s)	(s)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	率	(%)	(%)	(%)	(%)	
北苗(X)	0																		
北端(X)	0																		
宜蘭(X)	0																		
花蓮(X)	100%	1.40	2.1/ 9.7/E	8.8	12.9	.0	65.8	34.2	.0	.3	24.7	61.2	13.8	100%	24.4	74.4	.6	.6	E /41%
臺東(Y)	98%	1.30	2.5/ 6.8/NE	6.3	9.7	.0	71.2	28.8	.0	33.5	60.0	6.5	.0	98%	51.1	48.3	.6	.0	ENE/33%
屏東(Y)	96%	.72	1.8/ 6.1/SSE	5.0	8.4	17.9	80.4	1.7	.0	91.6	8.1	.3	.0	96%	.3	53.7	12.8	33.2	SE /27%
高雄(X)	92%	.67	1.1/ 6.9/SSW	6.1	14.3	16.3	83.7	.0	.0	58.0	26.4	8.7	6.9	92%	.0	.0	41.7	58.3	WNW/39%
嘉南(X)	0																		
中雲(X)	100%	1.71	3.4/ 8.7/NNE	7.3	10.1	2.2	33.3	62.6	1.8	9.8	56.8	33.0	.3	100%	98.4	.0	.0	1.6	NNE/79%
澎湖(Y)	98%	1.10	2.6/ 5.9/NNW	4.8	6.3	21.4	50.6	28.0	.0	99.4	.6	.0	.0	98%	59.2	.0	2.6	38.2	N /52%
金門(Y)	97%	1.06	2.7/ 6.4/ENE	4.9	6.4	13.2	67.8	19.0	.0	98.9	1.1	.0	.0	97%	47.2	51.5	1.2	.0	ENE/47%
馬祖(Y)	95%	1.87	4.2/ 7.2/NE	5.6	7.2	.0	31.0	63.3	5.7	79.1	20.9	.0	.0	95%	87.7	12.1	.2	.0	NE /46%

表2.3b 2019年2月12個海域主要測站1修補後示性波高週期及波向重要統計量統計表

海域 (測站)	波高 蒐集	H_s 平均	H_s 最大 (波高/週期/波向)	T_p 平均	T_p 最大	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	波向 N~E	波向 E~S	波向 S~W	波向 W~N	主波向 (百分比) 來向/%
	率	(m)	(m/s/來向)	(s)	(s)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	率	(%)	(%)	(%)	(%)	
北苗(X)	100%	1.90	4.1/11.7/N	8.3	11.7	1.6	28.1	61.3	8.9	3.4	27.5	66.2	2.8	100%	93.6	.0	.9	5.5	NNE/64%
北端(X)	100%	1.25	2.4/ 8.8/NNE	7.9	11.3	.1	77.7	22.2	.0	.3	58.2	38.5	3.0	100%	99.0	.4	.0	.6	NE /44%
宜蘭(X)	100%	1.38	1.8/ 8.4/ESE	8.8	11.1	.0	80.5	19.5	.0	.0	24.0	68.3	7.7	100%	22.5	76.8	.7	.0	ESE/43%
花蓮(X)	100%	1.40	2.1/ 9.7/E	8.8	12.9	.0	65.8	34.2	.0	.3	24.7	61.2	13.8	100%	24.4	74.4	.6	.6	E /41%
臺東(Y)	100%	1.30	2.5/ 6.8/NE	6.3	9.7	.0	70.5	29.5	.0	33.2	60.4	6.4	.0	100%	51.0	48.4	.6	.0	ENE/33%
屏東(Y)	100%	.71	1.8/ 6.1/SSE	5.0	8.4	17.6	80.8	1.6	.0	92.0	7.7	.3	.0	100%	.3	51.6	14.0	34.1	SE /26%
高雄(X)	100%	.67	1.1/ 6.9/SSW	6.1	14.3	16.1	83.9	.0	.0	58.8	26.3	8.2	6.7	100%	.0	.0	42.1	57.9	WNW/39%
嘉南(X)	100%	.49	.8/ 5.4/WNW	5.2	6.9	52.2	47.8	.0	.0	91.7	8.3	.0	.0	100%	.0	2.7	16.4	81.0	WNW/41%
中雲(X)	100%	1.71	3.4/ 8.7/NNE	7.3	10.1	2.2	33.3	62.6	1.8	9.8	56.8	33.0	.3	100%	98.4	.0	.0	1.6	NNE/79%
澎湖(Y)	100%	1.12	2.8/ 6.0/ENE	4.8	6.5	21.0	49.7	29.3	.0	97.8	2.2	.0	.0	100%	60.0	.0	2.5	37.5	N /51%
金門(Y)	100%	1.06	2.7/ 6.4/ENE	5.0	6.4	13.5	66.8	19.6	.0	99.0	1.0	.0	.0	100%	46.4	52.4	1.2	.0	ENE/46%
馬祖(Y)	100%	1.87	4.2/ 7.2/NE	5.6	7.2	.0	31.1	63.5	5.4	79.9	20.1	.0	.0	100%	86.5	13.4	.1	.0	NE /44%

表2.4a 2019年3月12個海域主要測站1修補前示性波高週期及波向重要統計量統計表

海域 (測站)	波高 H_s		H_s 最大 (m/s/來向)	T_p 平均	T_p 最大	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/%
	蒐集率	平均 (m)																	
北苗(X)	30%	1.37	3.0/ 7.8/NE	6.4	9.2	.9	65.6	33.0	.4	44.2	37.9	17.9	.0	30%	30.8	.9	9.4	58.9	N /22%
北端(X)	37%	1.31	3.1/ 8.4/NNE	7.3	10.0	9.7	57.2	32.7	.4	14.0	53.6	31.7	.7	37%	99.6	.0	.0	.4	NE /44%
宜蘭(X)	56%	1.28	2.0/ 9.5/ENE	7.5	10.8	.0	81.4	18.6	.0	13.0	50.8	33.7	2.4	56%	38.3	56.1	5.5	.0	ENE/26%
花蓮(X)	96%	1.24	2.8/ 7.4/NNW	7.9	11.8	.0	79.7	20.3	.0	5.8	49.4	38.6	6.3	95%	26.3	73.0	.3	.4	E /46%
臺東(Y)	98%	1.17	2.7/ 7.0/E	6.0	8.1	.0	86.0	14.0	.0	46.8	52.6	.5	.0	98%	48.1	48.6	3.3	.0	ENE/35%
屏東(Y)	97%	.62	1.4/ 4.9/ESE	4.7	6.8	25.0	75.0	.0	.0	98.8	1.2	.0	.0	97%	.0	59.3	19.1	21.6	SSE/28%
高雄(X)	91%	.57	1.2/ 6.7/SSW	5.1	10.9	36.8	63.2	.0	.0	79.5	16.0	4.2	.3	91%	.0	.0	31.5	68.5	WNW/45%
嘉南(X)	0																		
中雲(X)	99%	1.47	3.1/ 8.4/NNE	6.5	9.1	4.7	50.5	44.2	.5	28.6	61.7	9.7	.0	99%	82.0	.0	4.2	13.8	NNE/49%
澎湖(Y)	99%	1.02	2.8/ 5.8/N	4.6	6.2	21.1	57.8	21.1	.0	99.0	1.0	.0	.0	99%	60.1	.0	7.1	32.8	N /56%
金門(Y)	86%	.98	2.7/ 6.2/ENE	4.9	6.7	16.5	68.4	15.1	.0	95.0	5.0	.0	.0	86%	41.0	53.5	5.5	.0	ENE/41%
馬祖(Y)	92%	1.51	3.5/ 7.1/NE	5.3	7.3	.0	62.7	34.1	3.2	85.6	14.4	.0	.0	92%	69.3	25.1	5.4	.1	ENE/37%

表2.4b 2019年3月12個海域主要測站1修補後示性波高週期及波向重要統計量統計表

海域 (測站)	波高 蒐集	H_s 平均	H_s 最大 (波高/週期/波向)	T_p 平均	T_p 最大	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	波向 N~E	波向 E~S	波向 S~W	波向 W~N	主波向 (百分比) 來向/%
北苗(X)	100%	1.43	3.3/ 9.4/NNE	7.0	11.3	1.1	60.2	37.6	1.1	19.6	59.9	20.3	.1	100%	70.0	.4	2.8	26.7	NNE/41%
北端(X)	100%	1.30	3.1/ 8.4/NNE	7.6	10.4	3.6	68.0	28.2	.1	5.6	55.8	38.0	.5	100%	99.9	.0	.0	.1	NE /51%
宜蘭(X)	100%	1.30	2.0/ 9.5/ENE	8.0	10.8	.0	82.3	17.7	.0	7.3	34.9	55.6	2.2	100%	28.2	68.7	3.1	.0	ESE/31%
花蓮(X)	100%	1.23	2.8/ 7.4/NNW	7.9	11.8	.0	80.5	19.5	.0	5.5	48.3	40.2	6.0	100%	25.1	74.2	.3	.4	E /45%
臺東(Y)	100%	1.17	2.7/ 7.0/E	6.0	8.1	.0	86.0	14.0	.0	47.0	52.4	.5	.0	100%	48.1	48.7	3.2	.0	ENE/35%
屏東(Y)	100%	.62	1.4/ 4.9/ESE	4.7	6.8	25.3	74.7	.0	.0	98.8	1.2	.0	.0	100%	.0	59.1	19.4	21.5	SSE/27%
高雄(X)	100%	.57	1.2/ 6.7/SSW	5.1	10.9	36.0	64.0	.0	.0	79.0	16.7	4.0	.3	100%	.0	.0	31.7	68.3	WNW/44%
嘉南(X)	100%	.50	1.0/ 6.3/W	5.3	6.3	55.4	44.6	.0	.0	96.6	3.4	.0	.0	100%	.0	3.9	24.7	71.4	WNW/42%
中雲(X)	100%	1.47	3.1/ 8.4/NNE	6.4	9.1	4.7	50.8	44.0	.5	28.4	62.0	9.7	.0	100%	81.6	.1	4.2	14.1	NNE/49%
澎湖(Y)	100%	1.02	2.8/ 5.8/N	4.6	6.2	21.4	57.5	21.1	.0	99.1	.9	.0	.0	100%	59.7	.0	7.1	33.2	N /56%
金門(Y)	100%	.96	2.7/ 6.2/ENE	4.9	6.7	15.6	69.9	14.5	.0	95.6	4.4	.0	.0	100%	42.9	51.9	5.2	.0	ENE/39%
馬祖(Y)	100%	1.49	3.5/ 7.1/NE	5.3	7.3	.0	63.3	33.7	3.0	85.9	14.1	.0	.0	100%	71.6	23.3	5.0	.1	ENE/41%

表2.5a 2019年4月12個海域主要測站1修補前示性波高週期及波向重要統計量統計表

海域 (測站)	波高 蒐集率	H_s 平均 (m)	H_s 最大 (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/%
北苗(X)	99%	1.01	2.8/ 8.3/NNE	6.2	10.0	20.2	59.9	19.9	.0	39.8	50.5	9.5	.1	99%	27.3	.1	12.1	60.4	NNW/19%
北端(X)	100%	1.00	2.8/ 9.1/NNE	7.0	11.0	15.0	65.8	19.2	.0	17.2	59.6	22.5	.7	100%	98.5	.3	.0	1.3	NE /50%
宜蘭(X)	100%	1.09	2.1/ 8.8/E	7.3	10.2	.0	85.6	14.4	.0	14.0	55.7	29.9	.4	100%	25.7	70.4	3.9	.0	E /26%
花蓮(X)	100%	.95	1.9/ 8.5/E	7.4	10.8	2.1	91.4	6.5	.0	13.3	55.1	30.7	.8	100%	15.6	84.4	.0	.0	ESE/51%
臺東(Y)	97%	.91	2.4/ 6.8/NE	5.9	7.8	6.7	84.9	8.3	.0	50.9	49.1	.0	.0	97%	41.8	57.1	1.1	.0	ENE/33%
屏東(Y)	96%	.49	1.2/ 5.3/WNW	4.6	6.6	56.8	43.2	.0	.0	95.9	4.1	.0	.0	96%	.6	42.9	32.0	24.6	SSE/27%
高雄(X)	91%	.49	1.0/ 4.8/NW	5.1	9.1	51.3	48.7	.0	.0	73.5	21.0	5.5	.0	91%	.0	.2	48.4	51.4	WNW/35%
嘉南(X)	0																		
中雲(X)	100%	1.09	2.8/ 8.4/N	6.0	9.6	22.1	48.1	29.8	.0	42.2	49.7	8.1	.0	100%	62.8	.1	9.3	27.7	N /42%
澎湖(Y)	81%	.81	2.7/ 6.0/NNW	4.6	9.4	42.0	43.0	15.1	.0	99.0	.9	.2	.0	81%	41.8	3.4	19.7	35.1	N /31%
金門(Y)	89%	.74	2.2/ 6.2/E	4.6	6.4	45.2	43.9	10.9	.0	97.4	2.6	.0	.0	89%	17.9	58.4	23.6	.2	E /34%
馬祖(Y)	97%	1.29	3.9/ 7.3/ENE	5.2	7.6	6.2	60.2	30.9	2.7	87.5	12.5	.0	.0	97%	59.6	29.9	10.2	.3	ENE/37%

表2.5b 2019年 4月12個海域主要測站1修補後示性波高週期及波向重要統計量統計表

海域 (測站)	波高 蒐集	H_s 平均	H_s 最大 (波高/週期/波向)	T_p 平均	T_p 最大	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	波向 N~E	波向 E~S	波向 S~W	波向 W~N	主波向 (百分比) 來向/%
北苗(X)	100%	1.01	2.8/ 8.3/NNE	6.2	10.0	20.7	59.4	19.9	.0	40.3	50.1	9.4	.1	100%	27.2	.1	11.9	60.7	NNW/19%
北端(X)	100%	1.00	2.8/ 9.1/NNE	7.0	11.0	15.0	65.8	19.2	.0	17.2	59.6	22.5	.7	100%	98.5	.3	.0	1.3	NE /50%
宜蘭(X)	100%	1.09	2.1/ 8.8/E	7.3	10.2	.0	85.6	14.4	.0	14.0	55.7	29.9	.4	100%	25.7	70.4	3.9	.0	E /27%
花蓮(X)	100%	.95	1.9/ 8.5/E	7.4	10.8	2.1	91.4	6.5	.0	13.3	55.1	30.7	.8	100%	15.6	84.4	.0	.0	ESE/51%
臺東(Y)	100%	.91	2.4/ 6.8/NE	5.9	7.8	6.8	85.0	8.2	.0	51.0	49.0	.0	.0	100%	41.9	56.9	1.1	.0	ENE/32%
屏東(Y)	100%	.49	1.2/ 5.3/WNW	4.6	6.6	56.9	43.1	.0	.0	96.1	3.9	.0	.0	100%	.6	42.9	32.1	24.4	SSE/27%
高雄(X)	100%	.48	1.0/ 4.8/NW	5.1	9.1	52.5	47.5	.0	.0	73.9	21.0	5.1	.0	100%	.0	.3	50.3	49.4	WNW/34%
嘉南(X)	100%	.42	.8/ 6.6/W	4.7	6.6	81.3	18.8	.0	.0	96.0	4.0	.0	.0	100%	.1	1.4	69.0	29.4	W /40%
中雲(X)	100%	1.09	2.8/ 8.4/N	6.0	34.0	22.4	47.9	29.7	.0	42.2	49.6	8.1	.1	100%	62.6	.1	9.3	27.9	N /42%
澎湖(Y)	100%	.79	2.7/ 6.0/NNW	4.7	9.4	43.3	42.5	14.2	.0	98.8	1.1	.1	.0	100%	47.1	4.0	17.4	31.5	N /26%
金門(Y)	100%	.74	2.3/ 5.0/E	4.6	6.4	45.6	43.5	11.0	.0	97.5	2.5	.0	.0	100%	19.6	58.6	21.7	.1	E /36%
馬祖(Y)	100%	1.28	3.9/ 7.3/ENE	5.2	7.6	6.1	61.0	30.3	2.6	87.5	12.5	.0	.0	100%	60.6	29.2	10.0	.3	ENE/37%

表2.6a 2019年5月12個海域主要測站1修補前示性波高週期及波向重要統計量統計表

海域 (測站)	波高 蒐集率	H_s 平均 (m)	H_s 最大 (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/%
北苗(X)	100%	.95	3.0/ 7.9/N	6.1	12.1	22.4	62.9	14.7	.0	49.6	37.9	10.1	2.4	100%	31.5	.7	4.8	63.0	N /21%
北端(X)	99%	1.06	3.2/ 7.8/NNE	7.5	12.3	1.6	80.1	17.5	.8	20.6	44.3	25.5	9.5	99%	99.7	.0	.0	.3	NE /41%
宜蘭(X)	97%	.98	2.4/ 8.8/NE	7.8	12.1	1.8	94.3	3.9	.0	11.4	46.5	33.1	8.9	96%	42.9	56.4	.7	.0	E /41%
花蓮(X)	81%	.85	1.5/ 5.6/ENE	8.2	11.8	12.5	86.9	.7	.0	9.2	35.1	43.8	12.0	81%	14.5	85.3	.2	.0	E /57%
臺東(Y)	97%	.98	2.3/ 6.1/NE	6.3	9.6	13.1	76.4	10.6	.0	34.6	59.1	6.3	.0	97%	60.4	39.6	.0	.0	ENE/46%
屏東(Y)	96%	.61	1.4/ 5.1/WSW	4.7	6.4	33.5	66.5	.0	.0	99.2	.8	.0	.0	96%	.1	24.8	63.3	11.7	SW /20%
高雄(X)	92%	.58	1.1/ 5.1/SSW	6.0	10.3	34.8	65.2	.0	.0	48.5	48.8	2.3	.4	92%	.0	.0	66.5	33.5	WSW/35%
嘉南(X)	0																		
中雲(X)	99%	1.15	3.5/ 8.9/N	6.3	9.8	12.2	62.5	23.1	2.2	37.9	52.6	9.5	.0	99%	69.6	.1	5.2	25.1	N /45%
澎湖(Y)	72%	.82	2.9/ 6.4/NNW	4.5	6.4	34.5	50.5	15.0	.0	99.3	.7	.0	.0	72%	46.0	.2	16.5	37.3	N /38%
金門(Y)	91%	.89	2.5/ 6.3/ENE	4.8	6.6	17.2	71.8	11.0	.0	95.7	4.3	.0	.0	91%	32.5	51.5	16.0	.0	E /34%
馬祖(Y)	97%	1.28	4.4/ 7.2/NE	5.3	7.5	.6	73.4	22.3	3.7	79.5	20.5	.0	.0	97%	60.2	38.2	1.2	.4	ENE/36%

表2.6b 2019年5月12個海域主要測站1修補後示性波高週期及波向重要統計量統計表

海域 (測站)	波高 蒐集	H_s 平均	H_s 最大 (波高/週期/波向)	T_p 平均	T_p 最大	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	波向 N~E	波向 E~S	波向 S~W	波向 W~N	主波向 (百分比) 來向/%
	率	(m)	(m/s/來向)	(s)	(s)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	率	(%)	(%)	(%)	(%)	
北苗(X)	100%	.95	3.0/ 7.9/N	6.1	12.1	22.4	62.9	14.7	.0	49.6	37.9	10.1	2.4	100%	31.5	.7	4.8	63.0	N /21%
北端(X)	100%	1.05	3.2/ 7.8/NNE	7.4	12.3	3.0	79.0	17.2	.8	21.8	43.7	25.1	9.4	100%	99.1	.5	.0	.4	NE /40%
宜蘭(X)	100%	.98	2.4/ 8.8/NE	7.8	12.1	1.7	94.5	3.8	.0	11.0	46.8	32.5	9.7	100%	41.3	58.1	.7	.0	E /40%
花蓮(X)	100%	.84	1.5/ 5.6/ENE	7.9	11.8	9.9	89.5	.5	.0	7.3	47.4	35.6	9.7	100%	15.9	83.5	.5	.1	E /50%
臺東(Y)	100%	.97	2.3/ 6.1/NE	6.3	9.6	13.6	76.2	10.2	.0	36.0	57.9	6.0	.0	100%	60.1	39.9	.0	.0	ENE/46%
屏東(Y)	100%	.61	1.4/ 5.1/WSW	4.7	6.4	33.7	66.3	.0	.0	99.2	.8	.0	.0	100%	.1	24.9	63.6	11.4	SW /21%
高雄(X)	100%	.57	1.1/ 5.1/SSW	5.9	10.3	35.6	64.4	.0	.0	49.6	47.7	2.3	.4	100%	.0	.0	67.2	32.8	WSW/35%
嘉南(X)	100%	.58	1.7/ 6.7/WNW	5.8	8.0	44.0	55.8	.3	.0	56.6	43.3	.1	.0	100%	1.6	.8	72.4	25.1	W /27%
中雲(X)	100%	1.15	3.5/ 8.9/N	6.3	9.8	12.1	62.9	22.8	2.2	38.6	52.0	9.4	.0	100%	68.8	.1	5.4	25.7	N /44%
澎湖(Y)	100%	.80	2.9/ 6.4/NNW	4.5	6.4	32.9	55.9	11.2	.0	99.5	.5	.0	.0	100%	35.1	.1	12.6	52.2	N /38%
金門(Y)	100%	.87	2.5/ 6.3/ENE	4.8	6.6	19.2	70.4	10.3	.0	96.1	3.9	.0	.0	100%	31.7	52.7	14.9	.7	E /34%
馬祖(Y)	100%	1.28	4.4/ 7.2/NE	5.3	7.5	.5	73.3	22.4	3.8	80.0	20.0	.0	.0	100%	61.0	37.4	1.2	.4	ENE/37%

表2.7a 2019年6月12個海域主要測站1修補前示性波高週期及波向重要統計量統計表

海域 (測站)	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/%
北苗(X)	93%	.85	2.4/ 7.7/NNE	5.5	9.5	18.0	74.6	7.4	.0	69.0	28.0	3.0	.0	93%	14.6	.1	32.4	52.8	W /41%
北端(X)	88%	.80	2.5/ 7.1/NNE	7.6	10.0	33.6	56.4	10.0	.0	8.5	40.3	51.0	.2	88%	86.4	7.3	1.4	4.9	NE /34%
宜蘭(X)	97%	.77	1.6/ 8.2/SSW	6.6	10.0	8.2	91.5	.3	.0	33.1	54.8	11.9	.1	96%	29.1	46.5	23.9	.4	S /16%
花蓮(X)	100%	.64	1.2/ 7.8/E	6.7	9.9	26.4	73.6	.0	.0	33.9	47.1	19.0	.0	100%	14.5	85.5	.0	.0	ESE/45%
臺東(Y)	88%	.62	1.8/ 6.1/S	5.2	6.7	31.8	67.6	.6	.0	83.0	17.0	.0	.0	88%	24.4	67.5	8.2	.0	ESE/23%
屏東(Y)	90%	.83	2.3/ 6.7/S	5.0	6.7	22.9	70.8	6.3	.0	92.6	7.4	.0	.0	90%	.2	5.7	76.7	17.5	SSW/28%
高雄(X)	92%	.71	1.6/ 7.5/SW	6.3	9.8	24.1	75.3	.6	.0	41.9	44.7	13.4	.0	92%	.0	.0	99.4	.6	WSW/59%
嘉南(X)	0																		
中雲(X)	99%	.70	1.7/ 6.9/N	5.2	8.4	27.0	70.8	2.2	.0	64.1	34.8	1.1	.0	99%	29.9	.1	34.1	35.8	W /27%
澎湖(Y)	87%	.48	1.2/ 4.7/NNE	4.3	5.7	61.3	38.7	.0	.0	100.0	.0	.0	.0	87%	18.8	.0	51.9	29.3	WSW/40%
金門(Y)	76%	.71	1.4/ 4.9/ENE	4.2	5.7	21.1	78.9	.0	.0	100.0	.0	.0	.0	76%	7.7	40.3	52.0	.0	S /27%
馬祖(Y)	90%	.98	2.2/ 5.2/S	4.6	6.9	4.8	86.7	8.5	.0	96.3	3.7	.0	.0	90%	37.6	16.4	45.7	.3	S /27%

表2.7b 2019年6月12個海域主要測站1修補後示性波高週期及波向重要統計量統計表

海域 (測站)	波高 蒐集	H_s 平均	H_s 最大 (波高/週期/波向)	T_p 平均	T_p 最大	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	波向 N~E	波向 E~S	波向 S~W	波向 W~N	主波向 (百分比)
	率	(m)	(m/s/來向)	(s)	(s)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	率	(%)	(%)	(%)	(%)	來向/%
北苗(X)	100%	.83	2.4/ 7.7/NNE	5.5	9.5	19.4	73.6	6.9	.0	70.7	26.5	2.8	.0	100%	13.9	.1	30.6	55.4	W /42%
北端(X)	100%	.76	2.5/ 7.1/NNE	7.6	10.0	37.1	54.2	8.8	.0	8.1	43.9	47.9	.1	100%	84.7	7.5	1.5	6.3	NE /32%
宜蘭(X)	100%	.77	1.6/ 8.2/SSW	6.6	10.0	7.9	91.8	.3	.0	31.9	56.4	11.5	.1	100%	29.4	47.1	23.1	.4	E /17%
花蓮(X)	100%	.64	1.2/ 7.8/E	6.7	9.9	26.4	73.6	.0	.0	33.9	47.1	19.0	.0	100%	14.4	85.6	.0	.0	ESE/45%
臺東(Y)	100%	.60	1.8/ 6.1/S	5.2	6.7	36.3	63.2	.6	.0	84.3	15.7	.0	.0	100%	23.1	69.6	7.4	.0	ESE/26%
屏東(Y)	100%	.81	2.3/ 6.7/S	4.9	6.7	20.6	73.8	5.7	.0	93.1	6.9	.0	.0	100%	.1	5.4	77.6	16.8	SSW/26%
高雄(X)	100%	.71	1.6/ 7.5/SW	6.3	9.8	23.9	75.4	.7	.0	41.4	45.0	13.6	.0	100%	.0	.0	99.4	.6	WSW/59%
嘉南(X)	100%	.67	1.6/ 7.5/SW	5.4	7.8	29.9	69.4	.7	.0	74.2	25.8	.0	.0	100%	.1	.6	98.9	.4	SW /48%
中雲(X)	100%	.70	1.7/ 6.9/N	5.2	8.4	26.8	71.0	2.2	.0	64.3	34.6	1.1	.0	100%	29.7	.1	34.3	35.8	W /27%
澎湖(Y)	100%	.48	1.2/ 4.7/NNE	4.3	5.7	64.6	35.4	.0	.0	100.0	.0	.0	.0	100%	18.1	3.8	47.4	30.8	WSW/36%
金門(Y)	100%	.70	1.4/ 4.9/ENE	4.2	5.7	17.9	82.1	.0	.0	100.0	.0	.0	.0	100%	7.2	38.6	53.5	.7	S /25%
馬祖(Y)	100%	1.03	2.8/ 5.3/ESE	4.7	6.9	4.4	82.6	12.9	.0	96.7	3.3	.0	.0	100%	35.8	22.2	41.7	.3	S /24%

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表2.8a 2019年7月12個海域主要測站1修補前示性波高週期及波向重要統計量統計表

海域 (測站)	波高 蒐集	H_s 平均	H_s 最大 (波高/週期/波向)	T_p 平均	T_p 最大	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	波向 N~E	波向 E~S	波向 S~W	波向 W~N	主波向 (百分比)
	率	(m)	(m/s/來向)	(s)	(s)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	率	(%)	(%)	(%)	(%)	來向/%
北苗(X)	64%	.74	2.3/ 6.0/WSW	5.0	10.1	34.0	62.4	3.6	.0	80.9	17.9	1.1	.2	64%	10.5	.0	47.9	41.6	W /34%
北端(X)	90%	.57	2.0/ 9.8/E	7.8	9.9	66.8	25.7	7.4	.0	3.9	40.9	55.2	.0	90%	85.0	12.6	.6	1.8	NE /35%
宜蘭(X)	99%	.94	3.2/11.4/SSE	7.6	13.3	11.4	72.2	15.2	1.2	23.6	41.0	20.1	15.3	99%	13.7	64.6	21.0	.7	E /23%
花蓮(X)	100%	.77	2.6/11.3/SE	7.9	14.0	33.5	54.2	12.4	.0	19.9	34.9	27.3	17.9	100%	.4	99.6	.0	.0	ESE/47%
臺東(Y)	83%	.96	4.6/ 8.2/SE	5.3	8.2	26.3	55.6	16.0	2.1	76.3	23.0	.6	.0	83%	11.2	72.1	16.7	.0	SSE/24%
屏東(Y)	83%	1.43	5.1/ 8.7/S	5.6	9.0	6.2	53.8	34.8	5.2	68.3	30.2	1.5	.0	83%	.0	8.1	88.3	3.6	SW /35%
高雄(X)	96%	1.17	3.1/ 9.4/SW	7.6	11.9	8.2	65.7	25.5	.6	8.2	54.3	30.5	7.0	96%	.0	.0	97.4	2.6	WSW/63%
嘉南(X)	37%	1.15	2.8/ 9.8/SSW	7.7	11.3	8.8	66.2	25.0	.0	6.3	59.2	29.4	5.1	37%	.0	.0	100.0	.0	SSW/52%
中雲(X)	100%	.72	3.1/ 8.3/NNE	5.3	9.9	29.1	68.1	2.6	.3	62.7	30.1	7.1	.0	100%	11.8	.3	54.0	33.9	W /34%
澎湖(Y)	85%	.63	2.3/ 5.5/N	4.8	6.7	40.9	56.1	3.0	.0	97.6	2.4	.0	.0	85%	7.2	.0	71.7	21.1	WSW/63%
金門(Y)	65%	.90	2.4/ 6.5/E	4.8	7.2	21.9	71.4	6.6	.0	87.8	12.2	.0	.0	65%	2.3	47.4	50.3	.0	S /42%
馬祖(Y)	84%	1.25	2.8/ 5.6/S	4.7	7.4	4.6	59.4	35.9	.0	95.0	5.0	.0	.0	84%	7.7	35.1	57.2	.0	S /31%

表2.8b 2019年7月12個海域主要測站1修補後示性波高週期及波向重要統計量統計表

海域 (測站)	波高 蒐集	H_s 平均	H_s 最大 (波高/週期/波向)	T_p 平均	T_p 最大	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	波向 N~E	波向 E~S	波向 S~W	波向 W~N	主波向 (百分比) 來向/%
	率	(m)	(m/s/來向)	(s)	(s)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	率	(%)	(%)	(%)	(%)	
北苗(X)	100%	.86	2.3/ 6.0/WSW	5.2	10.1	25.8	66.5	7.7	.0	79.2	20.0	.7	.1	100%	8.1	.0	46.8	45.2	W /50%
北端(X)	100%	.56	2.0/ 9.8/E	7.7	9.9	69.4	23.9	6.7	.0	4.6	41.1	54.3	.0	100%	85.2	12.2	.7	1.9	NE /34%
宜蘭(X)	100%	.95	3.2/11.4/SSE	7.6	13.3	11.3	72.2	15.3	1.2	23.8	40.7	20.3	15.2	100%	13.6	64.9	20.8	.7	E /22%
花蓮(X)	100%	.77	2.6/11.3/SE	7.9	14.0	33.5	54.2	12.4	.0	19.9	34.9	27.3	17.9	100%	.4	99.6	.0	.0	ESE/47%
臺東(Y)	100%	.90	4.6/ 8.2/SE	5.4	8.9	32.3	51.9	14.1	1.7	75.4	23.1	1.5	.0	100%	9.5	76.1	14.4	.0	SSE/22%
屏東(Y)	100%	1.41	5.1/ 8.7/S	5.6	9.0	5.4	57.8	32.5	4.3	69.8	29.0	1.2	.0	100%	.0	6.7	90.3	3.0	SW /32%
高雄(X)	100%	1.17	3.1/ 9.4/SW	7.6	11.9	8.1	65.7	25.7	.5	8.1	53.9	31.2	6.9	100%	.0	.0	97.4	2.6	WSW/64%
嘉南(X)	100%	1.13	2.9/10.3/SSW	7.3	11.3	5.2	72.8	21.9	.0	15.5	54.2	27.6	2.8	100%	.0	.8	98.1	1.1	SSW/47%
中雲(X)	100%	.73	3.1/ 8.3/NNE	5.3	9.9	29.0	68.0	2.7	.3	62.6	30.2	7.1	.0	100%	12.0	.3	53.9	33.9	W /34%
澎湖(Y)	100%	.62	2.3/ 5.5/N	4.8	6.7	36.6	60.9	2.6	.0	97.8	2.2	.0	.0	100%	6.3	.0	75.1	18.5	WSW/61%
金門(Y)	100%	.86	2.4/ 6.5/E	4.8	7.2	18.8	76.9	4.3	.0	91.1	8.9	.0	.0	100%	1.7	44.1	54.2	.0	S /43%
馬祖(Y)	100%	1.20	2.8/ 5.6/S	4.7	7.4	4.2	63.8	32.0	.0	95.6	4.4	.0	.0	100%	11.7	38.4	49.9	.0	S /26%

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表2.9a 2019年8月12個海域主要測站1修補前示性波高週期及波向重要統計量統計表

海域 (測站)	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/%
北苗(X)	93%	.92	4.5/ 7.7/NW	5.9	13.0	19.7	69.2	9.2	1.9	60.1	28.6	7.3	3.9	93%	20.7	.4	32.8	46.0	W /25%
北端(X)	95%	1.07	4.5/11.3/NE	8.4	14.6	19.7	65.1	11.6	3.6	16.1	28.0	30.3	25.7	95%	83.5	16.5	.0	.0	ENE/33%
宜蘭(X)	76%	1.32	6.7/12.6/ESE	9.1	14.3	11.0	66.5	12.3	10.1	7.8	29.2	29.9	33.1	75%	62.7	33.6	3.2	.5	E /34%
花蓮(X)	99%	1.15	5.3/11.9/SE	8.8	13.5	13.7	63.6	18.8	3.9	3.0	35.0	37.8	24.3	99%	9.8	90.2	.0	.0	SE /40%
臺東(Y)	91%	1.32	11.0/11.3/ENE	6.5	11.3	12.6	58.4	25.1	3.8	38.5	49.3	11.2	1.0	91%	21.5	71.5	7.1	.0	ESE/19%
屏東(Y)	0																		
高雄(X)	72%	1.30	3.0/ 9.0/SW	8.4	11.0	3.0	62.7	34.1	.2	3.2	40.6	42.5	13.7	72%	.0	.0	96.4	3.6	SW /66%
嘉南(X)	0																		
中雲(X)	100%	1.00	3.5/ 8.4/NNE	6.4	11.0	9.3	72.7	17.4	.5	40.2	51.4	7.0	1.3	100%	35.1	.0	25.6	39.3	W /29%
澎湖(Y)	91%	.90	3.3/ 6.0/N	5.0	7.1	18.0	71.2	10.2	.6	93.9	6.1	.0	.0	91%	18.9	.1	53.4	27.5	WSW/42%
金門(Y)	75%	1.14	4.1/ 7.1/SSE	5.2	7.7	.4	85.3	12.7	1.6	87.5	12.5	.0	.0	75%	10.7	55.8	33.5	.0	S /27%
馬祖(Y)	93%	1.53	6.9/ 9.6/ENE	5.3	9.6	.0	65.2	26.3	8.5	82.8	15.2	2.0	.0	93%	35.5	46.8	17.7	.0	ESE/20%

表2.9b 2019年8月12個海域主要測站1修補後示性波高週期及波向重要統計量統計表

海域 (測站)	波高 蒐集	H_s 平均	H_s 最大 (波高/週期/波向)	T_p 平均	T_p 最大	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	波向 N~E	波向 E~S	波向 S~W	波向 W~N	主波向 (百分比) 來向/%
	率	(m)	(m/s/來向)	(s)	(s)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	率	(%)	(%)	(%)	(%)	
北苗(X)	100%	.90	4.5/ 7.7/NW	5.9	13.0	21.6	68.0	8.6	1.7	62.4	27.2	6.9	3.6	100%	21.8	.4	30.9	46.9	W /24%
北端(X)	100%	1.06	4.5/11.3/NE	8.4	14.6	20.4	64.8	11.4	3.4	15.5	29.0	30.9	24.6	100%	83.6	16.1	.0	.3	ENE/32%
宜蘭(X)	100%	1.33	6.7/12.6/ESE	8.9	14.3	8.3	68.1	14.9	8.6	5.9	28.8	39.8	25.5	100%	48.3	48.8	2.6	.4	E /26%
花蓮(X)	100%	1.16	5.3/11.9/SE	8.8	13.5	13.6	63.4	18.7	4.3	3.0	34.7	38.0	24.3	100%	9.7	90.3	.0	.0	SE /40%
臺東(Y)	100%	1.36	11.0/11.3/ENE	6.5	11.3	12.4	57.3	26.2	4.2	37.1	50.3	11.6	1.1	100%	20.6	72.8	6.6	.0	ESE/21%
屏東(Y)	100%	1.73	4.5/ 7.0/SW	6.5	8.3	1.2	44.8	46.4	7.7	32.1	58.7	9.1	.0	100%	.3	.0	95.8	3.9	SW /62%
高雄(X)	100%	1.51	3.9/ 9.4/SW	8.5	11.0	2.2	51.2	42.3	4.3	2.3	34.3	50.0	13.4	100%	.3	.7	94.8	4.3	SW /58%
嘉南(X)	100%	1.48	4.2/ 8.6/WSW	7.6	9.5	.8	57.1	39.1	3.0	7.7	45.7	46.6	.0	100%	2.2	.3	89.0	8.6	WSW/52%
中雲(X)	100%	1.00	3.5/ 8.4/NNE	6.4	11.0	9.4	72.6	17.5	.5	40.1	51.6	7.0	1.3	100%	34.9	.0	25.7	39.4	W /29%
澎湖(Y)	100%	.90	3.3/ 6.0/N	5.0	7.1	17.1	72.2	10.2	.5	94.5	5.5	.0	.0	100%	19.5	4.2	50.7	25.7	WSW/40%
金門(Y)	100%	1.06	4.1/ 7.1/SSE	5.1	7.7	.3	87.9	10.6	1.2	90.2	9.8	.0	.0	100%	8.1	58.1	33.9	.0	S /25%
馬祖(Y)	100%	1.51	6.9/ 9.6/ENE	5.3	9.6	.0	67.1	25.0	7.9	81.5	16.7	1.9	.0	100%	38.4	44.4	17.2	.0	ESE/19%

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表 2.10a 2019 年 9 月 12 個海域主要測站 1 修補前示性波高週期及波向重要統計量統計表

海域 (測站)	波高 蒐集	H_s 平均	H_s 最大 (波高/週期/波向)	T_p 平均	T_p 最大	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	波向 N~E	波向 E~S	波向 S~W	波向 W~N	主波向 (百分比) 來向/%
	率	(m)	(m/s/來向)	(s)	(s)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	率	(%)	(%)	(%)	(%)	
北苗(X)	99%	1.48	5.8/ 5.9/NW	7.3	14.5	8.7	54.8	25.6	11.0	27.2	40.2	20.4	12.2	99%	33.0	.6	7.2	59.3	NNW/28%
北端(X)	100%	1.83	7.1/12.5/NE	8.2	12.5	.0	53.6	29.2	17.2	8.8	42.1	27.8	21.4	100%	100.0	.0	.0	.0	NNE/57%
宜蘭(X)	64%	1.49	6.8/13.6/ESE	9.2	14.7	.0	66.3	29.6	4.1	3.5	25.4	38.5	32.6	64%	93.0	7.0	.0	.0	NE /49%
花蓮(X)	100%	1.37	4.3/13.0/ESE	9.2	14.3	.0	67.4	30.1	2.5	3.2	26.1	33.6	37.1	99%	23.7	76.3	.0	.0	E /52%
臺東(Y)	77%	1.36	7.5/12.0/ESE	6.5	12.0	.0	69.1	27.7	3.3	39.2	51.9	7.1	1.8	77%	56.6	40.1	3.3	.0	ENE/35%
屏東(Y)	17%	.60	1.6/ 5.4/W	4.8	7.7	36.9	61.5	1.6	.0	95.1	4.9	.0	.0	17%	.8	7.4	3.3	88.5	WNW/48%
高雄(X)	38%	.90	1.9/ 5.8/NW	7.4	10.8	6.7	75.6	17.8	.0	28.1	34.4	25.9	11.5	38%	.0	.0	55.9	44.1	W /29%
嘉南(X)	0																		
中雲(X)	100%	1.54	4.3/ 8.7/NNE	7.2	14.9	.0	54.3	41.1	4.6	13.2	65.7	13.4	7.7	100%	86.6	.0	.0	13.4	NNE/52%
澎湖(Y)	76%	1.08	3.3/ 6.0/NNW	5.1	7.0	10.3	71.1	16.7	2.0	90.3	9.7	.0	.0	76%	52.6	.0	16.8	30.6	N /43%
金門(Y)	64%	1.12	2.2/ 5.7/ENE	5.4	9.0	.0	84.4	15.6	.0	79.4	19.1	1.5	.0	64%	31.2	56.0	12.8	.0	E /33%
馬祖(Y)	78%	1.57	4.7/ 7.1/NE	5.4	9.2	.0	59.5	33.2	7.3	72.4	25.0	2.7	.0	78%	60.6	38.5	.4	.5	ENE/34%

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表2.10b 2019年9月12個海域主要測站1修補後示性波高週期及波向重要統計量統計表

海域 (測站)	波高 蒐集	H_s 平均	H_s 最大 (波高/週期/波向)	T_p 平均	T_p 最大	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	波向 N~E	波向 E~S	波向 S~W	波向 W~N	主波向 (百分比) 來向/%
	率	(m)	(m/s/來向)	(s)	(s)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	率	(%)	(%)	(%)	(%)	
北苗(X)	100%	1.47	5.8/ 5.9/NW	7.3	14.5	8.6	55.3	25.3	10.8	27.1	40.4	20.4	12.1	100%	32.9	.6	7.1	59.4	NNW/28%
北端(X)	100%	1.83	7.1/12.5/NE	8.2	12.5	.0	53.6	29.2	17.2	8.8	42.1	27.8	21.4	100%	100.0	.0	.0	.0	NNE/57%
宜蘭(X)	100%	1.37	6.8/13.6/ESE	9.2	14.7	.4	69.4	26.7	3.5	3.2	27.4	35.1	34.3	100%	70.7	29.3	.0	.0	NE /32%
花蓮(X)	100%	1.37	4.3/13.0/ESE	9.2	14.3	.0	67.5	30.0	2.5	3.2	26.3	33.6	36.9	100%	23.6	76.4	.0	.0	E /52%
臺東(Y)	100%	1.46	7.5/12.0/ESE	6.4	12.0	.0	61.7	35.1	3.2	48.1	44.9	5.6	1.5	100%	62.4	35.1	2.5	.0	ENE/34%
屏東(Y)	100%	1.26	3.2/ 5.3/W	5.9	8.3	11.7	49.9	38.2	.3	55.0	35.1	9.9	.0	100%	.1	1.4	69.0	29.4	SW /35%
高雄(X)	100%	1.07	2.1/12.9/WSW	7.7	13.9	5.1	70.8	24.0	.0	22.9	31.9	34.9	10.3	100%	.0	.6	68.8	30.7	SW /36%
嘉南(X)	100%	1.05	2.8/ 8.1/WNW	7.2	12.1	5.4	82.2	12.4	.0	27.2	39.0	26.5	7.2	100%	.3	.0	57.8	41.9	W /32%
中雲(X)	100%	1.54	4.3/ 8.7/NNE	7.2	14.9	.0	54.3	41.1	4.6	13.2	65.6	13.5	7.8	100%	86.5	.0	.0	13.5	NNE/52%
澎湖(Y)	100%	1.15	3.3/ 6.0/NNW	5.0	7.0	7.8	68.5	22.2	1.5	92.5	7.5	.0	.0	100%	61.3	.1	12.9	25.7	N /45%
金門(Y)	100%	1.11	2.2/ 5.7/ENE	5.2	9.0	.0	84.9	15.1	.0	85.7	13.2	1.1	.0	100%	32.5	58.5	8.5	.6	E /45%
馬祖(Y)	100%	1.74	4.7/ 7.1/NE	5.4	9.2	.0	49.9	40.0	10.1	78.5	19.4	2.1	.0	100%	63.2	36.1	.3	.4	E /39%

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表2.11a 2019年10月12個海域主要測站1修補前示性波高週期及波向重要統計量統計表

海域 (測站)	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/%
北苗(X)	99%	1.38	4.6/ 9.7/NNW	7.4	14.9	8.1	53.5	36.4	1.9	17.3	50.4	26.3	6.0	99%	33.2	.7	6.1	60.0	N /27%
北端(X)	100%	1.64	6.0/12.0/NE	8.1	12.0	.3	45.9	51.0	2.8	4.3	46.0	40.4	9.3	100%	99.7	.0	.0	.3	NNE/62%
宜蘭(X)	0																		
花蓮(X)	92%	1.27	2.7/14.0/ESE	9.1	16.4	3.5	59.6	36.9	.0	5.7	21.1	47.7	25.4	91%	18.5	81.5	.0	.0	E /60%
臺東(Y)	93%	1.40	3.4/10.6/ESE	6.3	10.7	1.9	56.2	41.7	.3	39.8	52.2	6.9	1.0	93%	76.8	23.2	.0	.0	ENE/53%
屏東(Y)	94%	.59	2.0/ 5.5/WNW	4.5	7.6	31.3	68.1	.6	.0	99.3	.7	.0	.0	94%	.0	38.0	20.9	41.0	WNW/24%
高雄(X)	0																		
嘉南(X)	85%	.45	.8/ 5.1/WNW	5.7	9.6	70.6	29.4	.0	.0	59.4	36.9	3.8	.0	85%	.0	.0	43.8	56.2	W /47%
中雲(X)	98%	1.63	3.5/ 9.1/N	6.7	11.3	9.6	33.1	55.6	1.8	26.7	64.5	7.4	1.4	98%	88.5	.0	.0	11.5	NNE/74%
澎湖(Y)	91%	1.24	3.2/ 6.2/N	4.6	6.4	13.7	55.6	30.3	.4	98.5	1.5	.0	.0	91%	74.6	.3	4.9	20.2	N /63%
金門(Y)	78%	1.09	2.8/ 6.6/E	4.8	7.2	15.0	64.0	21.0	.0	95.7	4.3	.0	.0	78%	36.3	54.6	9.1	.0	E /47%
馬祖(Y)	93%	1.71	5.5/ 8.1/NE	5.6	11.2	.7	44.2	47.8	7.2	72.8	21.9	4.9	.4	93%	77.0	21.0	1.4	.6	NE /36%

2-21

表2.11b 2019年10月12個海域主要測站1修補後示性波高週期及波向重要統計量統計表

海域 (測站)	波高 蒐集	H_s 平均	H_s 最大 (波高/週期/波向)	T_p 平均	T_p 最大	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	波向 N~E	波向 E~S	波向 S~W	波向 W~N	主波向 (百分比) 來向/%
	率	(m)	(m/s/來向)	(s)	(s)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	率	(%)	(%)	(%)	(%)	
北苗(X)	100%	1.38	4.6/ 9.7/NNW	7.4	14.9	8.3	53.4	36.4	1.9	17.7	50.0	26.3	5.9	100%	32.9	.7	6.3	60.1	N /27%
北端(X)	100%	1.64	6.0/12.0/NE	8.1	12.0	.3	46.1	50.8	2.8	4.3	46.0	40.5	9.3	100%	99.7	.0	.0	.3	NNE/62%
宜蘭(X)	100%	1.32	3.0/14.4/ESE	9.1	14.6	.4	65.9	33.7	.0	.0	22.2	50.7	27.2	100%	37.0	63.0	.0	.0	E /49%
花蓮(X)	100%	1.29	2.7/14.0/ESE	9.0	16.4	3.2	57.0	39.8	.0	5.2	21.6	49.6	23.5	100%	18.8	81.2	.0	.0	E /61%
臺東(Y)	100%	1.43	3.4/10.6/ESE	6.3	10.7	1.7	53.8	44.2	.3	38.0	54.4	6.6	.9	100%	75.9	24.1	.0	.0	ENE/51%
屏東(Y)	100%	.60	2.0/ 5.5/WNW	4.6	7.6	29.6	69.9	.5	.0	98.4	1.6	.0	.0	100%	.0	35.9	23.9	40.2	WNW/22%
高雄(X)	100%	.58	1.7/ 7.1/E	6.0	10.7	34.4	65.1	.5	.0	45.4	50.5	3.2	.8	100%	46.5	26.3	13.0	14.1	E /35%
嘉南(X)	100%	.43	1.7/ 7.1/E	5.8	9.6	72.6	27.3	.1	.0	58.1	38.6	3.4	.0	100%	3.8	.3	45.8	50.1	W /42%
中雲(X)	100%	1.63	3.6/ 8.4/NNE	6.7	11.3	9.4	33.3	55.2	2.0	27.0	64.1	7.5	1.3	100%	88.7	.0	.0	11.3	NNE/74%
澎湖(Y)	100%	1.29	3.2/ 6.2/N	4.7	6.4	13.3	53.5	32.5	.7	96.5	3.5	.0	.0	100%	75.8	.3	4.8	19.1	N /59%
金門(Y)	100%	1.12	3.0/ 5.7/ENE	4.8	7.2	12.2	65.7	22.0	.0	96.1	3.9	.0	.0	100%	46.9	45.8	7.3	.0	E /46%
馬祖(Y)	100%	1.73	5.5/ 8.1/NE	5.6	11.2	.7	42.9	49.7	6.7	74.7	20.3	4.6	.4	100%	78.4	19.8	1.3	.5	ENE/38%

2-22

表2.12a 2019年11月12個海域主要測站1修補前示性波高週期及波向重要統計量統計表

海域 (測站)	波高 蒐集	H_s 平均	H_s 最大 (波高/週期/波向)	T_p 平均	T_p 最大	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	波向 N~E	波向 E~S	波向 S~W	波向 W~N	主波向 (百分比) 來向/%
	率	(m)	(m/s/來向)	(s)	(s)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	率	(%)	(%)	(%)	(%)	
北苗(X)	99%	1.82	5.4/ 5.6/ENE	7.2	10.3	2.7	39.7	47.1	10.5	21.1	45.9	30.7	2.4	99%	26.3	.3	4.8	68.6	NNW/32%
北端(X)	8%	1.42	1.9/ 7.1/NE	6.7	7.6	.0	69.6	30.4	.0	14.3	85.7	.0	.0	8%	100.0	.0	.0	.0	NE /64%
宜蘭(X)	0																		
花蓮(X)	0																		
臺東(Y)	98%	1.89	3.9/ 9.4/E	6.7	9.4	.0	26.2	69.8	4.0	15.3	79.4	5.2	.0	98%	66.7	33.0	.3	.0	ENE/57%
屏東(Y)	100%	.81	1.8/ 6.6/W	5.3	8.2	6.3	92.6	1.1	.0	82.9	16.9	.1	.0	100%	.0	33.3	22.4	44.3	WNW/23%
高雄(X)	0																		
嘉南(X)	99%	.54	.9/12.8/W	7.4	13.0	33.6	66.4	.0	.0	26.7	40.2	18.5	14.7	99%	.0	.0	45.7	54.3	W /56%
中雲(X)	97%	2.23	4.2/ 9.8/NNE	7.4	10.0	.0	23.4	56.3	20.3	15.3	50.1	34.4	.1	97%	95.8	.0	.0	4.2	NNE/57%
澎湖(Y)	98%	1.79	3.8/ 7.1/NNW	5.1	7.1	1.7	32.8	59.0	6.5	90.5	9.5	.0	.0	98%	61.0	.0	.0	39.0	N /55%
金門(Y)	78%	1.45	3.2/ 6.5/ENE	5.3	7.1	3.4	52.0	44.3	.4	84.0	16.0	.0	.0	78%	48.4	50.9	.7	.0	ENE/48%
馬祖(Y)	100%	2.19	5.0/ 7.1/ENE	5.7	7.5	.0	27.4	54.4	18.2	64.0	36.0	.0	.0	100%	76.9	23.1	.0	.0	ENE/38%

2-23

表2.12b 2019年11月12個海域主要測站1修補後示性波高週期及波向重要統計量統計表

海域 (測站)	波高 蒐集	H_s 平均	H_s 最大 (波高/週期/波向)	T_p 平均	T_p 最大	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	波向 N~E	波向 E~S	波向 S~W	波向 W~N	主波向 (百分比)
	率	(m)	(m/s/來向)	(s)	(s)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	率	(%)	(%)	(%)	(%)	來向/%
北苗(X)	100%	1.81	5.4/ 5.6/ENE	7.2	10.3	2.9	39.6	46.9	10.6	21.7	45.3	30.7	2.4	100%	26.7	.3	4.7	68.3	NNW/32%
北端(X)	100%	1.92	4.4/10.0/NNE	8.2	11.4	.6	37.1	50.6	11.8	2.5	34.0	60.3	3.2	100%	99.7	.1	.1	.0	NE /60%
宜蘭(X)	100%	1.56	2.4/ 8.9/ENE	8.8	11.0	.0	42.1	57.9	.0	.0	16.8	73.6	9.6	100%	51.1	48.9	.0	.0	E /48%
花蓮(X)	100%	1.72	3.3/ 9.5/ENE	9.0	11.3	.0	35.4	64.3	.3	.0	3.6	88.9	7.5	100%	32.9	66.8	.0	.3	ESE/45%
臺東(Y)	100%	1.89	3.9/ 9.4/E	6.6	9.4	.0	26.7	69.4	3.9	15.8	79.0	5.1	.0	100%	66.7	33.1	.3	.0	ENE/56%
屏東(Y)	100%	.81	1.8/ 6.6/W	5.3	8.2	6.3	92.6	1.1	.0	82.9	16.9	.1	.0	100%	.0	33.3	22.4	44.3	WNW/23%
高雄(X)	100%	.59	1.1/ 9.4/WSW	6.4	11.5	20.4	79.6	.0	.0	31.4	61.9	5.4	1.3	100%	.6	.0	71.7	27.8	W /41%
嘉南(X)	100%	.54	.9/12.8/W	7.4	13.0	33.6	66.4	.0	.0	26.7	40.0	18.8	14.6	100%	.0	.0	45.6	54.4	W /56%
中雲(X)	100%	2.24	4.2/ 9.8/NNE	7.4	10.0	.0	23.3	56.0	20.7	14.9	50.7	34.3	.1	100%	95.8	.0	.0	4.2	NNE/57%
澎湖(Y)	100%	1.79	3.8/ 7.1/NNW	5.1	7.1	1.7	32.6	59.3	6.4	90.4	9.6	.0	.0	100%	61.3	.0	.0	38.8	N /55%
金門(Y)	100%	1.43	3.2/ 6.5/ENE	5.3	7.1	2.8	52.1	44.9	.3	86.9	13.1	.0	.0	100%	44.2	55.3	.6	.0	E /43%
馬祖(Y)	100%	2.19	5.0/ 7.1/ENE	5.7	7.5	.0	27.5	54.3	18.2	64.0	36.0	.0	.0	100%	76.8	23.2	.0	.0	ENE/38%

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表 2.13a 2019 年冬季 12 個海域主要測站 1 修補前示性波高週期及波向重要統計量統計表

海域 (測站)	波高 蒐集	H_s 平均	H_s 最大 (波高/週期/波向)	T_p 平均	T_p 最大	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	波向 N~E	波向 E~S	波向 S~W	波向 W~N	主波向 (百分比) 來向/%
	率	(m)	(m/s/來向)	(s)	(s)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	率	(%)	(%)	(%)	(%)	
北苗(X)	22%	1.65	4.1/ 9.5/N	7.4	10.2	18.5	24.4	48.2	8.9	21.2	40.8	36.9	1.1	22%	19.1	.4	3.6	76.9	NNW/37%
北端(X)	0																		
宜蘭(X)	0																		
花蓮(X)	100%	1.57	3.0/10.9/E	8.8	13.0	.0	50.0	49.9	.1	.7	22.9	62.1	14.3	99%	32.2	66.9	.7	.3	E /50%
臺東(Y)	91%	1.59	3.5/ 6.9/ENE	6.5	9.7	.0	49.0	49.9	1.1	18.9	78.1	3.0	.0	91%	56.2	43.6	.2	.0	ENE/41%
屏東(Y)	94%	.78	1.8/ 6.1/SSE	5.3	8.4	10.9	88.5	.5	.0	85.6	14.3	.1	.0	94%	.1	61.3	18.7	19.9	SSE/33%
高雄(X)	92%	.72	1.5/10.8/WNW	6.5	14.3	12.2	87.8	.0	.0	50.5	26.3	13.8	9.4	92%	.0	.0	35.6	64.4	WNW/42%
嘉南(X)	6%	.54	1.0/ 7.1/W	5.5	8.5	42.7	57.3	.0	.0	75.0	21.8	3.2	.0	6%	.0	.8	91.9	7.3	WSW/36%
中雲(X)	99%	1.96	4.0/10.1/NNE	7.3	10.2	4.0	25.7	56.8	13.5	15.1	53.8	30.3	.8	99%	97.3	.0	.0	2.7	NNE/78%
澎湖(Y)	69%	1.43	3.9/ 7.3/NW	4.9	7.3	12.9	43.5	40.2	3.4	92.2	7.8	.0	.0	69%	54.6	.0	1.4	43.9	N /48%
金門(Y)	88%	1.22	3.2/ 6.6/ENE	5.1	6.9	10.8	57.7	31.4	.1	93.3	6.7	.0	.0	88%	37.1	61.7	1.2	.0	E /45%
馬祖(Y)	73%	2.07	5.6/ 8.1/NE	5.6	8.1	.0	30.8	53.4	15.8	72.2	27.7	.1	.0	73%	80.8	19.0	.2	.0	NE /42%

表2.13b 2019年冬季12個海域主要測站1修補後示性波高週期及波向重要統計量統計表

海域 (測站)	波高 蒐集	H_s 平均	H_s 最大 (波高/週期/波向)	T_p 平均	T_p 最大	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	波向 N~E	波向 E~S	波向 S~W	波向 W~N	主波向 (百分比) 來向/%
	率	(m)	(m/s/來向)	(s)	(s)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	率	(%)	(%)	(%)	(%)	
北苗(X)	100%	2.12	7.1/12.4/NNE	7.5	12.4	6.2	23.8	49.8	20.3	12.5	49.5	34.0	4.0	100%	71.4	.1	1.4	27.0	N /42%
北端(X)	100%	1.66	4.9/10.6/NE	8.0	11.3	.1	51.9	41.7	6.3	.3	52.6	44.8	2.3	100%	99.5	.2	.0	.2	NE /44%
宜蘭(X)	100%	1.45	2.9/10.8/E	8.6	11.2	.0	63.6	36.4	.0	.0	23.3	72.1	4.5	100%	16.4	83.3	.2	.0	ESE/46%
花蓮(X)	100%	1.57	3.0/10.9/E	8.8	13.0	.0	50.0	49.9	.1	.7	22.9	62.1	14.3	100%	32.1	66.9	.6	.3	E /50%
臺東(Y)	100%	1.61	3.5/ 6.9/ENE	6.6	9.7	.0	47.6	51.3	1.0	18.1	79.1	2.8	.0	100%	55.0	44.9	.2	.0	ENE/39%
屏東(Y)	100%	.78	1.8/ 6.1/SSE	5.3	8.4	10.5	89.0	.5	.0	86.3	13.7	.1	.0	100%	.1	58.1	21.4	20.4	SSE/31%
高雄(X)	100%	.72	1.5/10.8/WNW	6.5	14.3	12.1	87.9	.0	.0	49.9	26.9	14.2	8.9	100%	.0	.0	35.9	64.0	WNW/42%
嘉南(X)	100%	.58	1.3/ 6.6/SW	5.7	8.5	29.7	70.3	.0	.0	61.7	38.1	.2	.0	100%	.0	1.2	24.1	74.7	WNW/43%
中雲(X)	100%	1.97	4.0/10.1/NNE	7.3	10.4	4.0	25.6	56.4	14.0	15.0	53.5	30.6	.9	100%	97.3	.0	.0	2.7	NNE/78%
澎湖(Y)	100%	1.51	3.9/ 7.3/NW	5.1	7.3	13.2	38.8	43.2	4.8	86.8	13.2	.0	.0	100%	68.4	.0	1.0	30.6	N /34%
金門(Y)	100%	1.21	3.2/ 6.6/ENE	5.1	6.9	10.2	59.2	30.5	.1	94.0	6.0	.0	.0	100%	36.2	62.8	1.0	.0	E /44%
馬祖(Y)	100%	1.96	5.6/ 8.1/NE	5.5	8.1	1.2	35.6	49.1	14.0	78.8	21.2	.0	.0	100%	76.4	23.4	.1	.0	ENE/31%

表 2.14a 2019年春季12個海域主要測站1修補前示性波高週期及波向重要統計量統計表

海域 (測站)	波高 H_s		H_s 最大 (波高/週期/波向)	T_p 平均	T_p 最大	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	波向 N~E	波向 E~S	波向 S~W	波向 W~N	主波向 (百分比)
	蒐集	平均																	
北苗(X)	76%	1.03	3.0/ 7.8/NE	6.2	12.1	18.6	62.0	19.3	.1	44.7	43.2	10.9	1.1	76%	29.6	.5	8.5	61.4	N /20%
北端(X)	78%	1.07	3.2/ 7.8/NNE	7.2	12.3	8.5	70.5	20.6	.4	18.1	52.2	25.2	4.4	78%	99.2	.1	.0	.7	NE /45%
宜蘭(X)	84%	1.09	2.4/ 8.8/NE	7.5	12.1	.7	88.0	11.3	.0	12.8	51.1	32.0	4.2	84%	35.2	61.8	3.0	.0	E /31%
花蓮(X)	92%	1.02	2.8/ 7.4/NNW	7.8	11.8	4.4	85.9	9.6	.0	9.4	47.2	37.3	6.0	92%	19.0	80.7	.1	.1	E /46%
臺東(Y)	97%	1.02	2.7/ 7.0/E	6.1	9.6	6.6	82.4	11.0	.0	44.1	53.6	2.3	.0	97%	50.1	48.4	1.5	.0	ENE/38%
屏東(Y)	96%	.58	1.4/ 4.9/ESE	4.7	6.8	38.2	61.8	.0	.0	98.0	2.0	.0	.0	96%	.2	42.4	38.2	19.2	SSE/22%
高雄(X)	91%	.54	1.2/ 6.7/SSW	5.4	10.9	40.9	59.1	.0	.0	67.0	28.7	4.0	.2	91%	.0	.0	48.9	51.1	WNW/32%
嘉南(X)	0																		
中雲(X)	99%	1.24	3.5/ 8.9/N	6.2	9.8	13.0	53.7	32.4	.9	36.2	54.7	9.1	.0	99%	71.5	.1	6.2	22.2	N /41%
澎湖(Y)	84%	.89	2.9/ 6.4/NNW	4.6	9.4	31.6	51.0	17.4	.0	99.1	.9	.1	.0	84%	50.2	1.1	13.8	34.8	N /43%
金門(Y)	89%	.87	2.7/ 6.2/ENE	4.7	6.7	26.2	61.5	12.3	.0	96.0	4.0	.0	.0	89%	30.5	54.4	15.1	.1	E /35%
馬祖(Y)	95%	1.36	4.4/ 7.2/NE	5.3	7.6	2.2	65.6	29.0	3.2	84.2	15.8	.0	.0	95%	62.9	31.2	5.6	.3	ENE/37%

表2.14b 2019年春季12個海域主要測站1修補後示性波高週期及波向重要統計量統計表

海域 (測站)	波高 蒐集	H_s 平均	H_s 最大 (波高/週期/波向)	T_p 平均	T_p 最大	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	波向 N~E	波向 E~S	波向 S~W	波向 W~N	主波向 (百分比) 來向/%
	率	(m)	(m/s/來向)	(s)	(s)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	率	(%)	(%)	(%)	(%)	
北苗(X)	100%	1.13	3.3/ 9.4/NNE	6.5	12.1	14.7	60.9	24.1	.4	36.5	49.3	13.3	.9	100%	43.1	.4	6.5	50.0	NNE/24%
北端(X)	100%	1.12	3.2/ 7.8/NNE	7.3	12.3	7.1	71.0	21.6	.3	14.9	52.9	28.6	3.6	100%	99.1	.3	.0	.6	NE /47%
宜蘭(X)	100%	1.13	2.4/ 8.8/NE	7.7	12.1	.6	87.5	12.0	.0	10.7	45.7	39.4	4.1	100%	31.8	65.7	2.5	.0	E /32%
花蓮(X)	100%	1.01	2.8/ 7.4/NNW	7.7	11.8	4.0	87.1	8.9	.0	8.7	50.2	35.6	5.6	100%	18.9	80.7	.3	.2	E /44%
臺東(Y)	100%	1.02	2.7/ 7.0/E	6.1	9.6	6.8	82.4	10.8	.0	44.6	53.2	2.2	.0	100%	50.1	48.4	1.4	.0	ENE/38%
屏東(Y)	100%	.58	1.4/ 4.9/ESE	4.7	6.8	38.5	61.5	.0	.0	98.1	1.9	.0	.0	100%	.2	42.3	38.4	19.1	SSE/22%
高雄(X)	100%	.54	1.2/ 6.7/SSW	5.4	10.9	41.3	58.7	.0	.0	67.4	28.5	3.8	.2	100%	.0	.1	49.7	50.2	WNW/31%
嘉南(X)	100%	.50	1.7/ 6.7/WNW	5.3	8.0	60.0	39.9	.1	.0	82.9	17.0	.0	.0	100%	.6	2.0	55.3	42.1	W /34%
中雲(X)	100%	1.24	3.5/ 8.9/N	6.2	34.0	13.0	53.9	32.2	.9	36.3	54.6	9.1	.0	100%	71.1	.1	6.3	22.5	N /40%
澎湖(Y)	100%	.87	2.9/ 6.4/NNW	4.6	9.4	32.4	52.1	15.5	.0	99.1	.9	.0	.0	100%	47.3	1.4	12.3	39.0	N /40%
金門(Y)	100%	.86	2.7/ 6.2/ENE	4.8	6.7	26.6	61.5	12.0	.0	96.4	3.6	.0	.0	100%	31.5	54.3	13.9	.3	E /36%
馬祖(Y)	100%	1.35	4.4/ 7.2/NE	5.3	7.6	2.2	65.9	28.8	3.1	84.4	15.6	.0	.0	100%	64.4	29.9	5.3	.3	ENE/38%

表 2.15a 2019 年夏季 12 個海域主要測站 1 修補前示性波高週期及波向重要統計量統計表

海域 (測站)	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/%
北苗(X)	84%	.85	4.5/ 7.7/NW	5.5	13.0	22.8	69.4	7.1	.7	68.7	25.6	4.1	1.5	84%	15.8	.2	36.6	47.4	W /33%
北端(X)	91%	.82	4.5/11.3/NE	8.0	14.6	39.9	49.2	9.7	1.2	9.6	36.2	45.1	9.1	91%	84.9	12.3	.6	2.1	NE /30%
宜蘭(X)	90%	.99	6.7/12.6/ESE	7.7	14.3	10.2	77.3	9.2	3.3	22.5	42.5	20.0	15.0	90%	32.8	49.6	17.0	.6	E /23%
花蓮(X)	100%	.86	5.3/11.9/SE	7.8	14.0	24.5	63.7	10.5	1.3	18.8	38.9	28.1	14.2	100%	8.1	91.9	.0	.0	ESE/42%
臺東(Y)	88%	.98	11.0/11.3/ENE	5.7	11.3	23.3	60.5	14.2	2.0	65.2	30.3	4.1	.4	88%	19.1	70.4	10.5	.0	ESE/20%
屏東(Y)	57%	1.12	5.1/ 8.7/S	5.3	9.0	14.7	62.5	20.2	2.5	80.7	18.5	.7	.0	57%	.1	6.9	82.3	10.7	SSW/29%
高雄(X)	87%	1.05	3.1/ 9.4/SW	7.4	11.9	12.3	68.2	19.3	.3	18.5	47.2	27.9	6.4	87%	.0	.0	97.8	2.2	WSW/51%
嘉南(X)	12%	1.15	2.8/ 9.8/SSW	7.7	11.3	8.8	66.2	25.0	.0	6.3	59.2	29.4	5.1	12%	.0	.0	100.0	.0	SSW/52%
中雲(X)	100%	.81	3.5/ 8.4/NNE	5.6	11.0	21.7	70.5	7.5	.3	55.6	38.8	5.1	.5	100%	25.6	.1	38.0	36.3	W /30%
澎湖(Y)	88%	.68	3.3/ 6.0/N	4.7	7.1	39.5	55.7	4.6	.2	97.1	2.9	.0	.0	88%	15.1	.1	58.9	26.0	WSW/48%
金門(Y)	72%	.92	4.1/ 7.1/SSE	4.7	7.7	14.1	78.9	6.5	.6	91.9	8.1	.0	.0	72%	7.1	47.9	45.0	.0	S /31%
馬祖(Y)	89%	1.26	6.9/ 9.6/ENE	4.9	9.6	3.1	70.4	23.5	3.0	91.1	8.1	.7	.0	89%	27.3	33.1	39.5	.1	S /22%

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表2.15b 2019年夏季12個海域主要測站1修補後示性波高週期及波向重要統計量統計表

海域 (測站)	波高 蒐集	H_s 平均	H_s 最大 (波高/週期/波向)	T_p 平均	T_p 最大	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	波向 N~E	波向 E~S	波向 S~W	波向 W~N	主波向 (百分比)
	率	(m)	(m/s/來向)	(s)	(s)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	率	(%)	(%)	(%)	(%)	來向/%
北苗(X)	100%	.87	4.5/ 7.7/NW	5.5	13.0	22.3	69.3	7.7	.6	70.7	24.5	3.4	1.3	100%	14.6	.2	36.1	49.1	W /38%
北端(X)	100%	.79	4.5/11.3/NE	7.9	14.6	42.3	47.6	9.0	1.1	9.4	38.0	44.3	8.3	100%	84.5	12.0	.7	2.8	NE /30%
宜蘭(X)	100%	1.02	6.7/12.6/ESE	7.7	14.3	9.2	77.2	10.3	3.3	20.4	41.8	24.0	13.8	100%	30.4	53.7	15.4	.5	E /22%
花蓮(X)	100%	.86	5.3/11.9/SE	7.8	14.0	24.5	63.6	10.5	1.4	18.8	38.8	28.2	14.2	100%	8.1	91.9	.0	.0	ESE/42%
臺東(Y)	100%	.96	11.0/11.3/ENE	5.7	11.3	26.9	57.4	13.8	2.0	65.4	29.8	4.4	.4	100%	17.7	72.9	9.5	.0	ESE/23%
屏東(Y)	100%	1.32	5.1/ 8.7/S	5.7	9.0	8.9	58.6	28.4	4.0	64.7	31.8	3.5	.0	100%	.1	4.0	88.0	7.8	SW /37%
高雄(X)	100%	1.13	3.9/ 9.4/SW	7.5	11.9	11.2	64.0	23.1	1.6	17.0	44.4	31.8	6.8	100%	.1	.2	97.2	2.5	WSW/50%
嘉南(X)	100%	1.10	4.2/ 8.6/WSW	6.8	11.3	11.8	66.4	20.8	1.0	32.0	42.1	25.0	1.0	100%	.8	.5	95.3	3.4	SW /38%
中雲(X)	100%	.81	3.5/ 8.4/NNE	5.6	11.0	21.7	70.5	7.5	.3	55.6	38.9	5.1	.5	100%	25.5	.1	38.0	36.4	W /30%
澎湖(Y)	100%	.67	3.3/ 6.0/N	4.7	7.1	39.1	56.4	4.3	.2	97.4	2.6	.0	.0	100%	14.6	2.6	57.8	25.0	WSW/46%
金門(Y)	100%	.88	4.1/ 7.1/SSE	4.7	7.7	12.3	82.3	5.0	.4	93.7	6.3	.0	.0	100%	5.7	47.0	47.1	.2	S /31%
馬祖(Y)	100%	1.25	6.9/ 9.6/ENE	4.9	9.6	2.9	71.1	23.4	2.7	91.2	8.2	.6	.0	100%	28.6	35.1	36.2	.1	S /20%

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表 2.16a 2019年秋季12個海域主要測站1修補前示性波高週期及波向重要統計量統計表

海域 (測站)	波高 H_s		H_s 最大 (波高/週期/波向)	T_p 平均	T_p 最大	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	波向 N~E	波向 E~S	波向 S~W	波向 W~N	主波向 (百分比) 來向/%
	蒐集	平均																	
北苗(X)	99%	1.56	5.8/ 5.9/NW	7.3	14.9	6.5	49.4	36.4	7.7	21.8	45.5	25.8	6.8	99%	30.9	.5	6.0	62.6	NNW/28%
北端(X)	70%	1.72	7.1/12.5/NE	8.1	12.5	.1	50.4	39.9	9.6	6.8	45.6	32.9	14.7	70%	99.9	.0	.0	.1	NNE/59%
宜蘭(X)	21%	1.49	6.8/13.6/ESE	9.2	14.7	.0	66.3	29.6	4.1	3.5	25.4	38.5	32.6	21%	93.0	7.0	.0	.0	NE /49%
花蓮(X)	64%	1.32	4.3/13.0/ESE	9.2	16.4	1.7	63.6	33.4	1.3	4.4	23.7	40.5	31.4	64%	21.2	78.8	.0	.0	E /56%
臺東(Y)	89%	1.56	7.5/12.0/ESE	6.5	12.0	.7	49.0	47.9	2.5	30.8	62.0	6.4	.9	89%	67.4	31.6	1.0	.0	ENE/49%
屏東(Y)	71%	.70	2.0/ 5.5/WNW	4.9	8.2	20.1	79.0	.9	.0	91.3	8.6	.1	.0	71%	.1	33.4	20.2	46.3	WNW/25%
高雄(X)	12%	.90	1.9/ 5.8/NW	7.4	10.8	6.7	75.6	17.8	.0	28.1	34.4	25.9	11.5	12%	.0	.0	55.9	44.1	W /29%
嘉南(X)	62%	.50	.9/12.8/W	6.6	13.0	51.0	49.0	.0	.0	42.1	38.6	11.5	7.7	62%	.0	.0	44.8	55.2	W /52%
中雲(X)	98%	1.80	4.3/ 8.7/NNE	7.1	14.9	3.3	37.0	51.0	8.8	18.5	60.2	18.2	3.1	98%	90.3	.0	.0	9.7	NNE/61%
澎湖(Y)	88%	1.39	3.8/ 7.1/NNW	4.9	7.1	8.3	51.6	37.0	3.1	93.2	6.8	.0	.0	88%	63.4	.1	6.5	30.0	N /55%
金門(Y)	73%	1.23	3.2/ 6.5/ENE	5.1	9.0	6.6	65.6	27.6	.1	86.9	12.7	.4	.0	73%	39.1	53.7	7.2	.0	E /41%
馬祖(Y)	90%	1.85	5.5/ 8.1/NE	5.6	11.2	.3	42.4	46.0	11.3	69.4	27.9	2.5	.2	90%	72.3	26.8	.6	.4	ENE/36%

表2.16b 2019年秋季12個海域主要測站1修補後示性波高週期及波向重要統計量統計表

海域 (測站)	波高 蒐集	H_s 平均	H_s 最大 (波高/週期/波向)	T_p 平均	T_p 最大	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	波向 N~E	波向 E~S	波向 S~W	波向 W~N	主波向 (百分比) 來向/%
	率	(m)	(m/s/來向)	(s)	(s)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	率	(%)	(%)	(%)	(%)	
北苗(X)	100%	1.55	5.8/ 5.9/NW	7.3	14.9	6.6	49.5	36.2	7.7	22.1	45.3	25.8	6.8	100%	30.9	.5	6.0	62.6	NNW/28%
北端(X)	100%	1.79	7.1/12.5/NE	8.1	12.5	.3	45.6	43.6	10.5	5.2	40.8	42.8	11.3	100%	99.8	.0	.0	.1	NNE/45%
宜蘭(X)	100%	1.42	6.8/13.6/ESE	9.0	14.7	.3	59.2	39.4	1.1	1.1	22.1	53.1	23.7	100%	52.7	47.3	.0	.0	E /38%
花蓮(X)	100%	1.46	4.3/13.0/ESE	9.1	16.4	1.1	53.3	44.6	.9	2.8	17.2	57.3	22.7	100%	25.0	74.9	.0	.1	E /51%
臺東(Y)	100%	1.59	7.5/12.0/ESE	6.4	12.0	.6	47.4	49.5	2.4	34.0	59.4	5.8	.8	100%	68.4	30.7	.9	.0	ENE/47%
屏東(Y)	100%	.89	3.2/ 5.3/W	5.3	8.3	16.0	70.8	13.1	.1	79.0	17.7	3.3	.0	100%	.0	23.7	38.3	38.0	WNW/20%
高雄(X)	100%	.75	2.1/12.9/WSW	6.7	13.9	20.1	71.7	8.1	.0	33.4	48.2	14.4	4.1	100%	16.0	9.2	50.7	24.1	W /25%
嘉南(X)	100%	.67	2.8/ 8.1/WNW	6.8	13.0	37.6	58.3	4.1	.0	37.5	39.2	16.1	7.2	100%	1.4	.1	49.7	48.9	W /43%
中雲(X)	100%	1.80	4.3/ 8.7/NNE	7.1	14.9	3.2	37.0	50.8	9.0	18.5	60.2	18.3	3.1	100%	90.3	.0	.0	9.7	NNE/61%
澎湖(Y)	100%	1.41	3.8/ 7.1/NNW	4.9	7.1	7.6	51.6	38.0	2.8	93.2	6.8	.0	.0	100%	66.2	.1	5.9	27.7	N /53%
金門(Y)	100%	1.22	3.2/ 6.5/ENE	5.1	9.0	5.1	67.5	27.3	.1	89.7	10.0	.4	.0	100%	41.3	53.1	5.4	.2	E /45%
馬祖(Y)	100%	1.88	5.5/ 8.1/NE	5.5	11.2	.2	40.1	48.0	11.6	72.4	25.2	2.2	.1	100%	72.8	26.3	.5	.3	ENE/35%

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表 2.17a 2019 年整年 12 個海域主要測站 1 修補前示性波高週期及波向重要統計量統計表

海域 (測站)	波高 H_s		H_s 最大 (m/s/來向)	T_p 平均	T_p 最大	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	波向 N~E	波向 E~S	波向 S~W	波向 W~N	主波向 (百分比)
	蒐集	平均																	
北苗(X)	70%	1.21	5.8/ 5.9/NW	6.5	14.9	15.6	56.9	23.9	3.6	42.1	38.6	16.1	3.2	70%	25.1	.4	15.7	58.8	NNW/20%
北端(X)	60%	1.16	7.1/12.5/NE	7.7	14.6	18.1	56.6	22.0	3.4	11.6	44.2	35.1	9.2	60%	93.9	4.7	.2	1.1	NE /37%
宜蘭(X)	49%	1.09	6.8/13.6/ESE	7.8	14.7	5.0	80.8	12.3	2.0	16.3	44.3	27.1	12.2	49%	40.3	50.3	9.2	.3	E /25%
花蓮(X)	89%	1.18	5.3/11.9/SE	8.3	16.4	8.4	65.7	25.3	.6	8.8	33.9	42.1	15.2	89%	20.0	79.7	.2	.1	E /42%
臺東(Y)	91%	1.28	11.0/11.3/ENE	6.2	12.0	7.6	60.8	30.3	1.4	39.8	56.0	3.9	.3	91%	48.3	48.4	3.2	.0	ENE/36%
屏東(Y)	80%	.76	5.1/ 8.7/S	5.0	9.0	22.0	73.6	4.0	.5	89.8	10.1	.2	.0	80%	.1	39.5	36.5	23.9	SSE/21%
高雄(X)	71%	.77	3.1/ 9.4/SW	6.5	14.3	21.3	71.9	6.7	.1	45.0	33.9	15.5	5.6	71%	.0	.0	60.1	39.9	WSW/28%
嘉南(X)	20%	.60	2.8/ 9.8/SSW	6.7	13.0	43.9	52.2	3.9	.0	38.9	40.6	13.7	6.8	20%	.0	.1	56.8	43.2	W /42%
中雲(X)	99%	1.45	4.3/ 8.7/NNE	6.5	14.9	10.6	46.9	36.7	5.8	31.5	51.8	15.6	1.1	99%	70.9	.1	11.2	17.9	NNE/48%
澎湖(Y)	82%	1.08	3.9/ 7.3/NW	4.8	9.4	23.6	50.9	23.9	1.6	95.6	4.4	.0	.0	82%	45.2	.3	21.4	33.1	N /39%
金門(Y)	81%	1.06	4.1/ 7.1/SSE	4.9	9.0	14.8	65.3	19.6	.2	92.3	7.6	.1	.0	81%	29.0	54.8	16.3	.0	E /34%
馬祖(Y)	87%	1.61	6.9/ 9.6/ENE	5.3	11.2	1.5	53.7	37.0	7.9	79.7	19.4	.8	.0	87%	59.9	28.0	11.9	.2	ENE/29%

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表2.17b 2019年整年12個海域主要測站1修補後示性波高週期及波向重要統計量統計表

海域 (測站)	波高 蒐集	H_s 平均	H_s 最大 (波高/週期/波向)	T_p 平均	T_p 最大	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	波向 N~E	波向 E~S	波向 S~W	波向 W~N	主波向 (百分比) 來向/%
	率	(m)	(m/s/來向)	(s)	(s)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	率	(%)	(%)	(%)	(%)	來向/%
北苗(X)	100%	1.41	7.1/12.4/NNE	6.7	14.9	12.5	51.0	29.3	7.2	35.6	42.1	19.0	3.2	100%	39.8	.3	12.6	47.3	N /25%
北端(X)	100%	1.34	7.1/12.5/NE	7.8	14.6	12.6	54.0	28.8	4.6	7.5	46.1	40.1	6.4	100%	95.7	3.2	.2	.9	NE /41%
宜蘭(X)	100%	1.25	6.8/13.6/ESE	8.3	14.7	2.5	72.0	24.4	1.1	8.1	33.3	47.0	11.5	100%	32.9	62.4	4.6	.1	E /32%
花蓮(X)	100%	1.22	5.3/11.9/SE	8.3	16.4	7.5	63.6	28.3	.6	7.8	32.4	45.7	14.2	100%	21.0	78.7	.2	.1	E /42%
臺東(Y)	100%	1.29	11.0/11.3/ENE	6.2	12.0	8.6	58.8	31.2	1.4	40.7	55.2	3.8	.3	100%	47.7	49.3	3.0	.0	ENE/34%
屏東(Y)	100%	.89	5.1/ 8.7/S	5.2	9.0	18.5	69.9	10.6	1.0	82.0	16.3	1.7	.0	100%	.1	31.9	46.7	21.3	SSE/17%
高雄(X)	100%	.78	3.9/ 9.4/SW	6.5	14.3	21.2	70.5	7.9	.4	41.9	37.0	16.1	5.0	100%	4.0	2.4	58.5	35.1	WSW/26%
嘉南(X)	100%	.71	4.2/ 8.6/WSW	6.1	13.0	34.8	58.7	6.3	.3	53.5	34.1	10.4	2.0	100%	.7	1.0	56.3	42.1	W /30%
中雲(X)	100%	1.45	4.3/ 8.7/NNE	6.5	34.0	10.5	46.9	36.6	6.0	31.5	51.7	15.7	1.1	100%	70.9	.1	11.2	17.9	NNE/48%
澎湖(Y)	100%	1.11	3.9/ 7.3/NW	4.8	9.4	23.2	49.7	25.1	1.9	94.2	5.8	.0	.0	100%	49.0	1.0	19.4	30.6	N /34%
金門(Y)	100%	1.04	4.1/ 7.1/SSE	4.9	9.0	13.6	67.7	18.6	.1	93.4	6.5	.1	.0	100%	28.6	54.3	17.0	.2	E /34%
馬祖(Y)	100%	1.61	6.9/ 9.6/ENE	5.3	11.2	1.6	53.3	37.2	7.8	81.7	17.5	.7	.0	100%	60.5	28.7	10.6	.2	ENE/29%

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第三章 2019 年 12 海域波浪**主要測站 1** 修補前後資料歷線比較圖

(北苗海域)

(北端海域)

(宜蘭海域)

(花蓮海域)

(臺東海域)

(屏東海域)

(高雄海域)

(嘉南海域)

(中雲海域)

(澎湖海域)

(金門海域)

(馬祖海域)

Twelve Seas Wave H_s at 2018/12

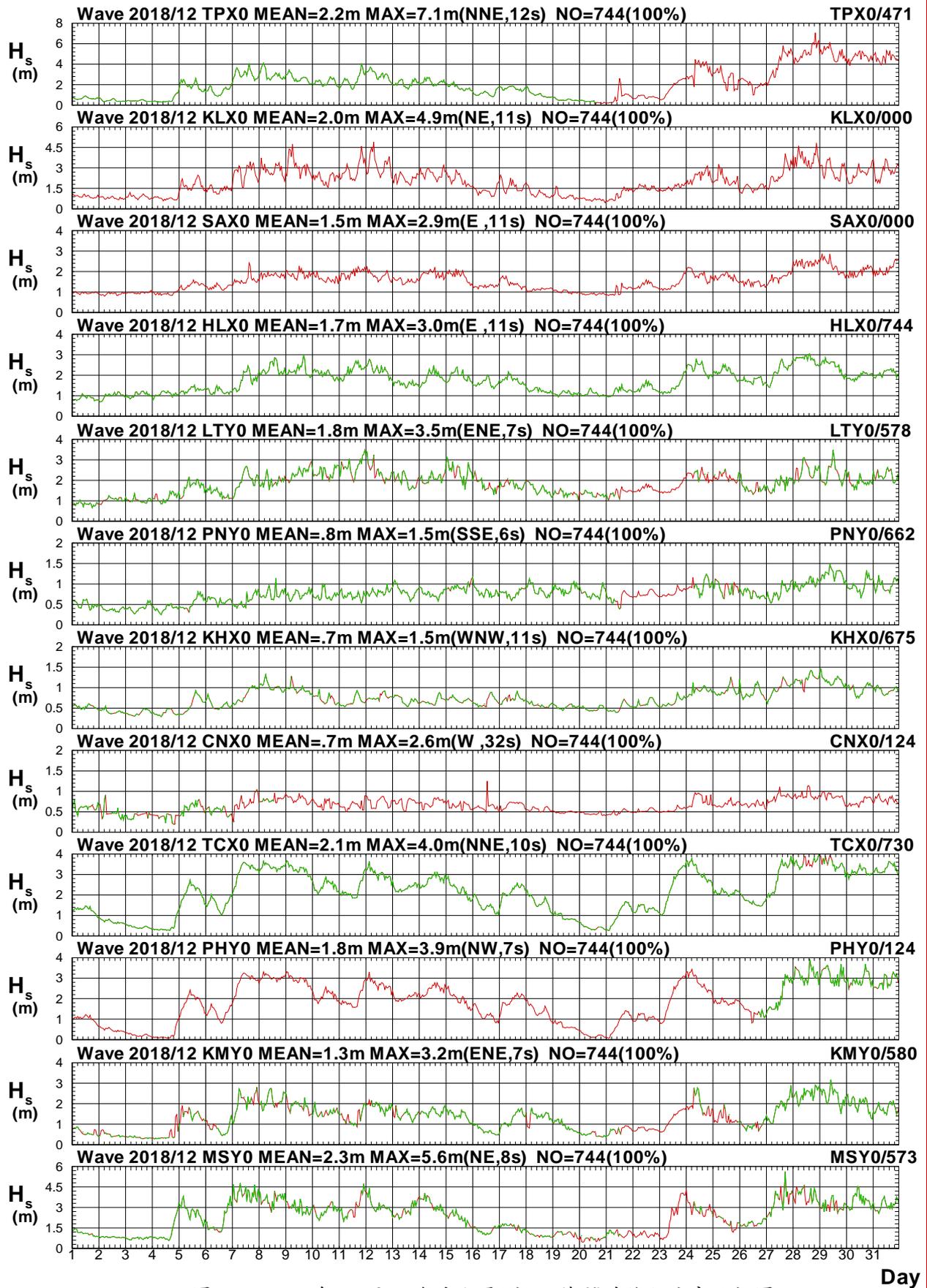


圖3.1 2018年12月12海域主要測站1修補前後之波高比較圖

V18CTPX0.1HA V18CTPX0.1H0 V18CKLX0.1HA V18CKLX0.1H0 V18CSAX0.1HA V18CSAX0.1H0
 V18CHLX0.1HA V18CHLX0.1H0 V18CLTY0.1HA V18CLTY0.1H0 V18CPNY0.1HA V18CPNY0.1H0

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Twelve Seas Wave T_p at 2018/12

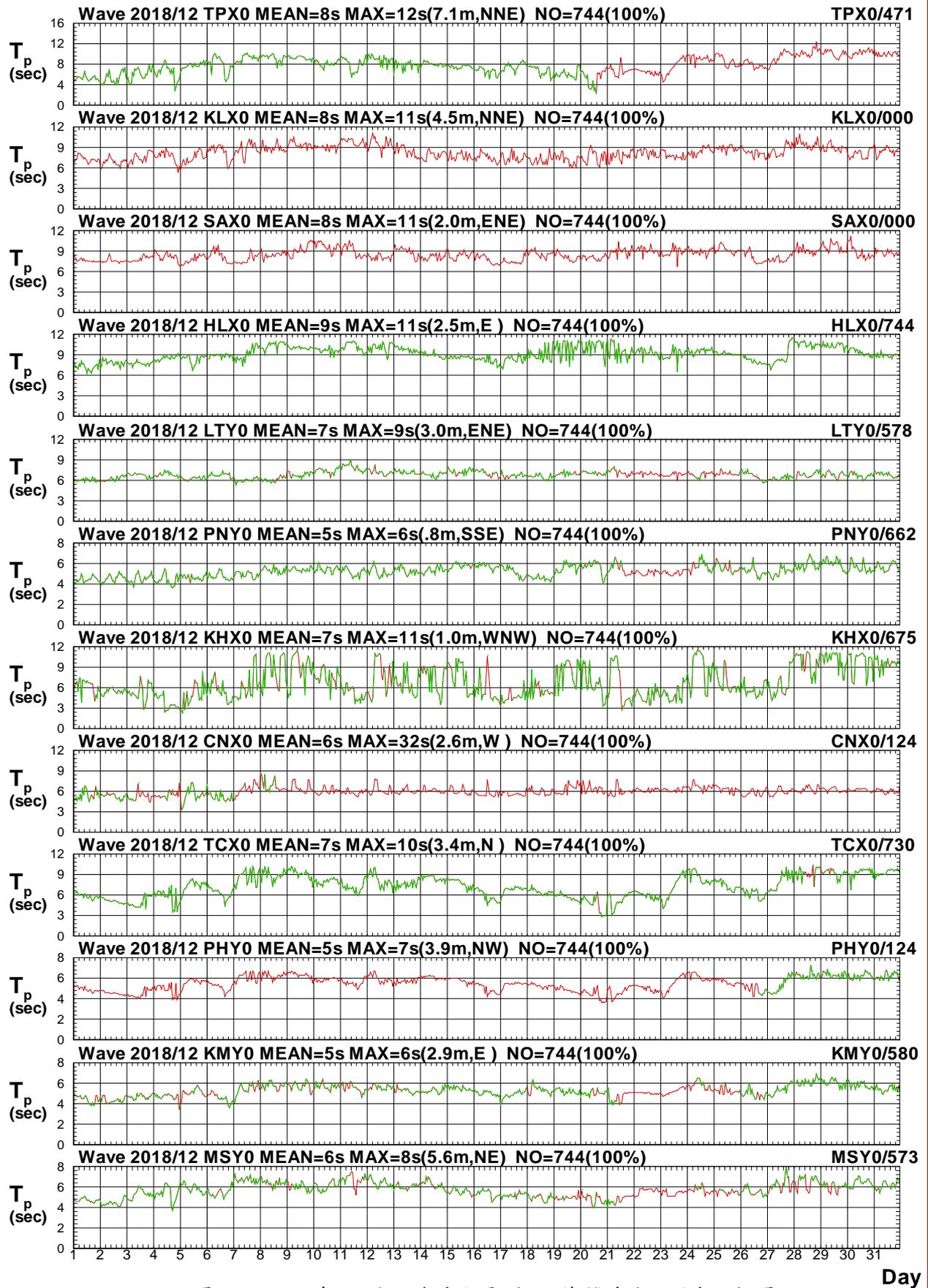


圖3.2 2018年12月12海域主要測站1修補前後之週期比較圖

V18CTPX0.1HA V18CTPX0.1H0 V18CKLX0.1HA V18CKLX0.1H0 V18CSAX0.1HA V18CSAX0.1H0
 V18CHLX0.1HA V18CHLX0.1H0 V18CLTY0.1HA V18CLTY0.1H0 V18CPNY0.1HA V18CPNY0.1H0

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Twelve Seas Wave Direction at 2018/12

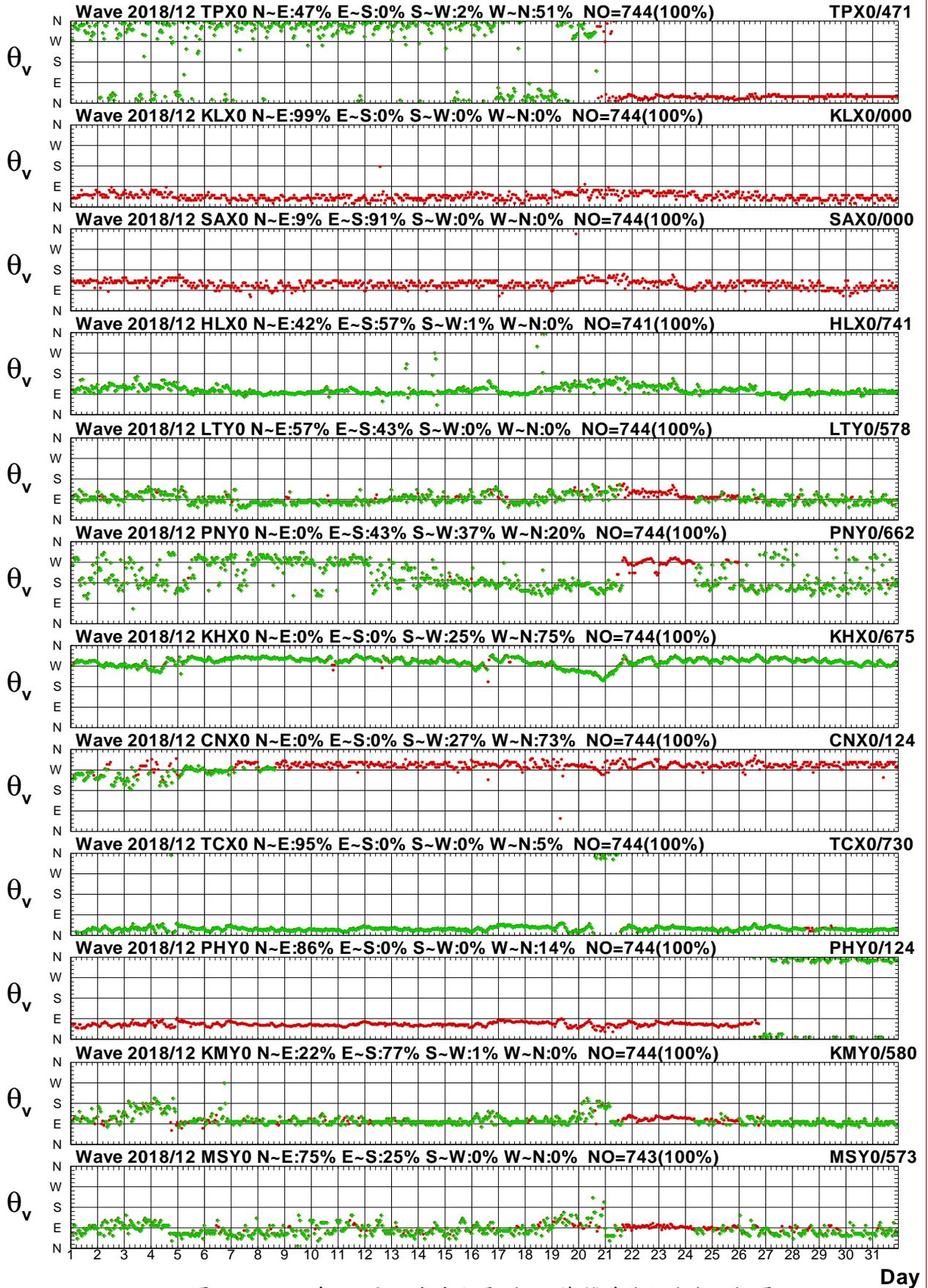


圖3.3 2018年12月12海域主要測站1修補前後之波向比較圖

V18CTPX0.1HA V18CTPX0.1H0 V18CKLX0.1HA V18CKLX0.1H0 V18CSAX0.1HA V18CSAX0.1H0
 V18CHLX0.1HA V18CHLX0.1H0 V18CLTY0.1HA V18CLTY0.1H0 V18CPNY0.1HA V18CPNY0.1H0

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Twelve Seas Wave H_s at 2019/01

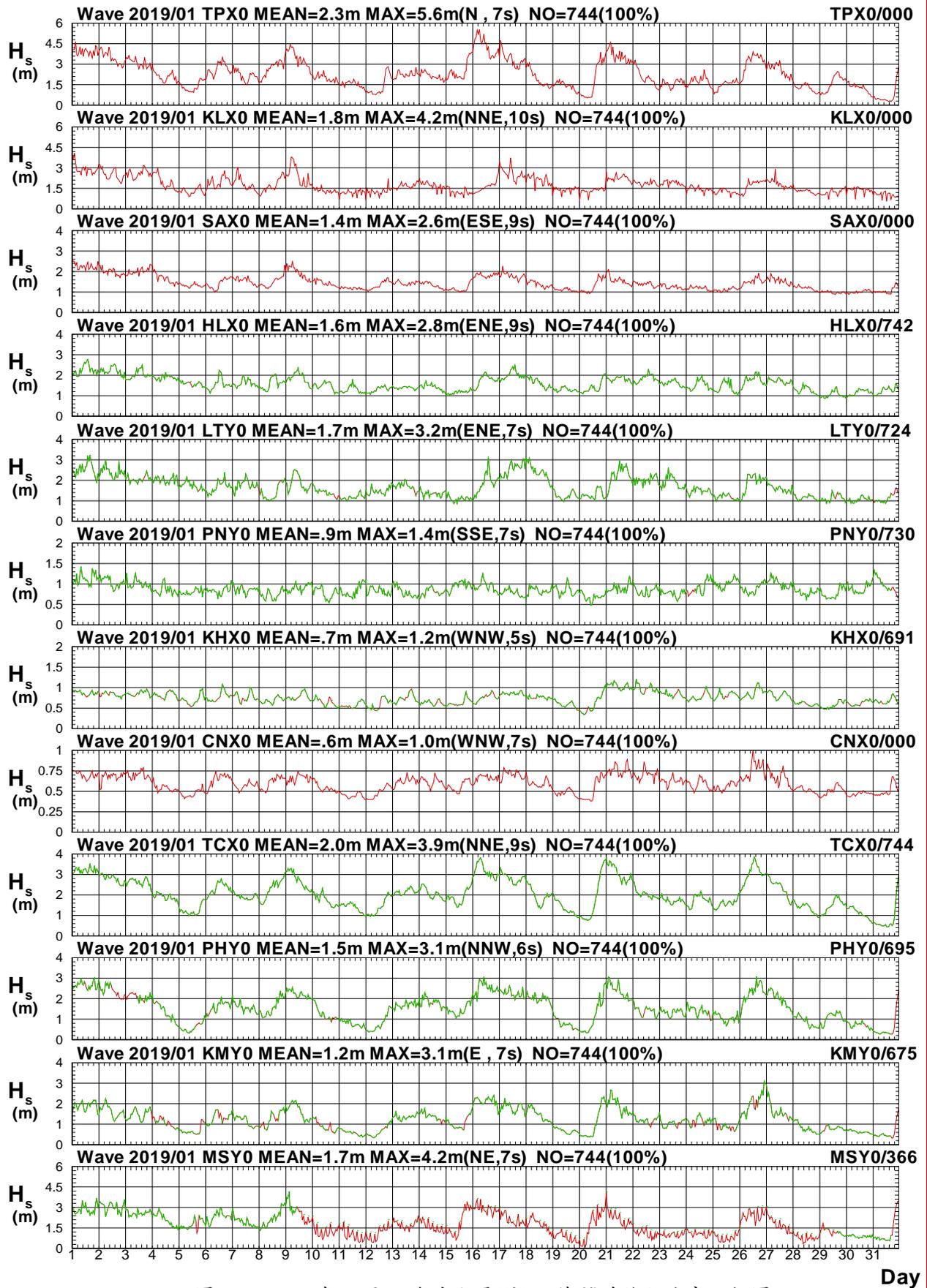


圖3.4 2019年1月12海域主要測站1修補前後之波高比較圖

V191TPX0.1HA V191TPX0.1H0 V191KLX0.1HA V191KLX0.1H0 V191SAX0.1HA V191SAX0.1H0
 V191HLX0.1HA V191HLX0.1H0 V191LTY0.1HA V191LTY0.1H0 V191PNY0.1HA V191PNY0.1H0

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Twelve Seas Wave T_p at 2019/01

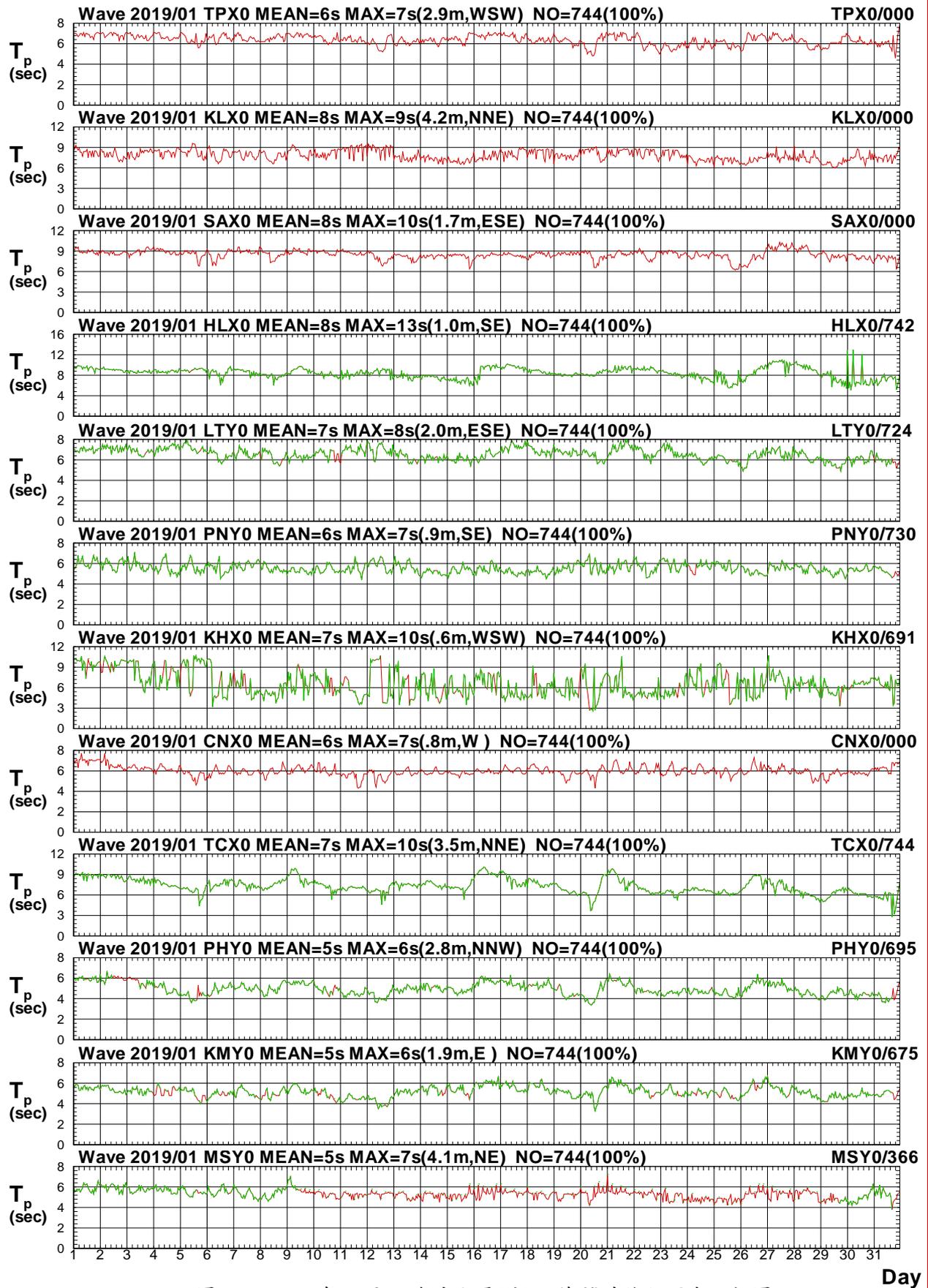


圖3.5 2019年1月12海域主要測站1修補前後之週期比較圖

V191TPX0.1HA V191TPX0.1H0 V191KLX0.1HA V191KLX0.1H0 V191SAX0.1HA V191SAX0.1H0
 V191HLX0.1HA V191HLX0.1H0 V191LTY0.1HA V191LTY0.1H0 V191PNY0.1HA V191PNY0.1H0

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Twelve Seas Wave Direction at 2019/01

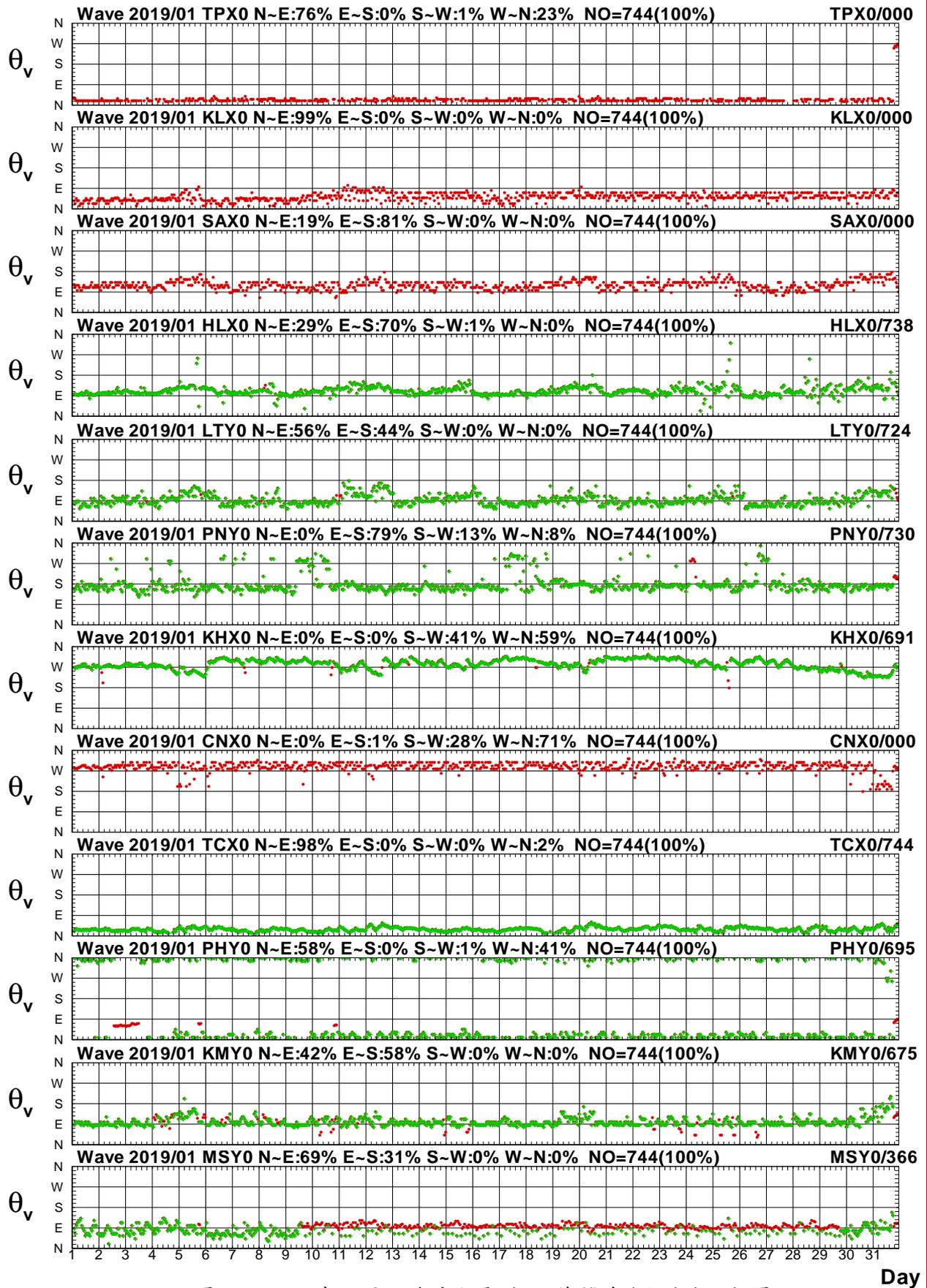


圖3.6 2019年1月12海域主要測站1修補前後之波向比較圖

V191TPX0.1HA V191TPX0.1HO V191KLX0.1HA V191KLX0.1HO V191SAX0.1HA V191SAX0.1HO
 V191HLX0.1HA V191HLX0.1HO V191LTY0.1HA V191LTY0.1HO V191PNY0.1HA V191PNY0.1HO

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Twelve Seas Wave H_s at 2019/02

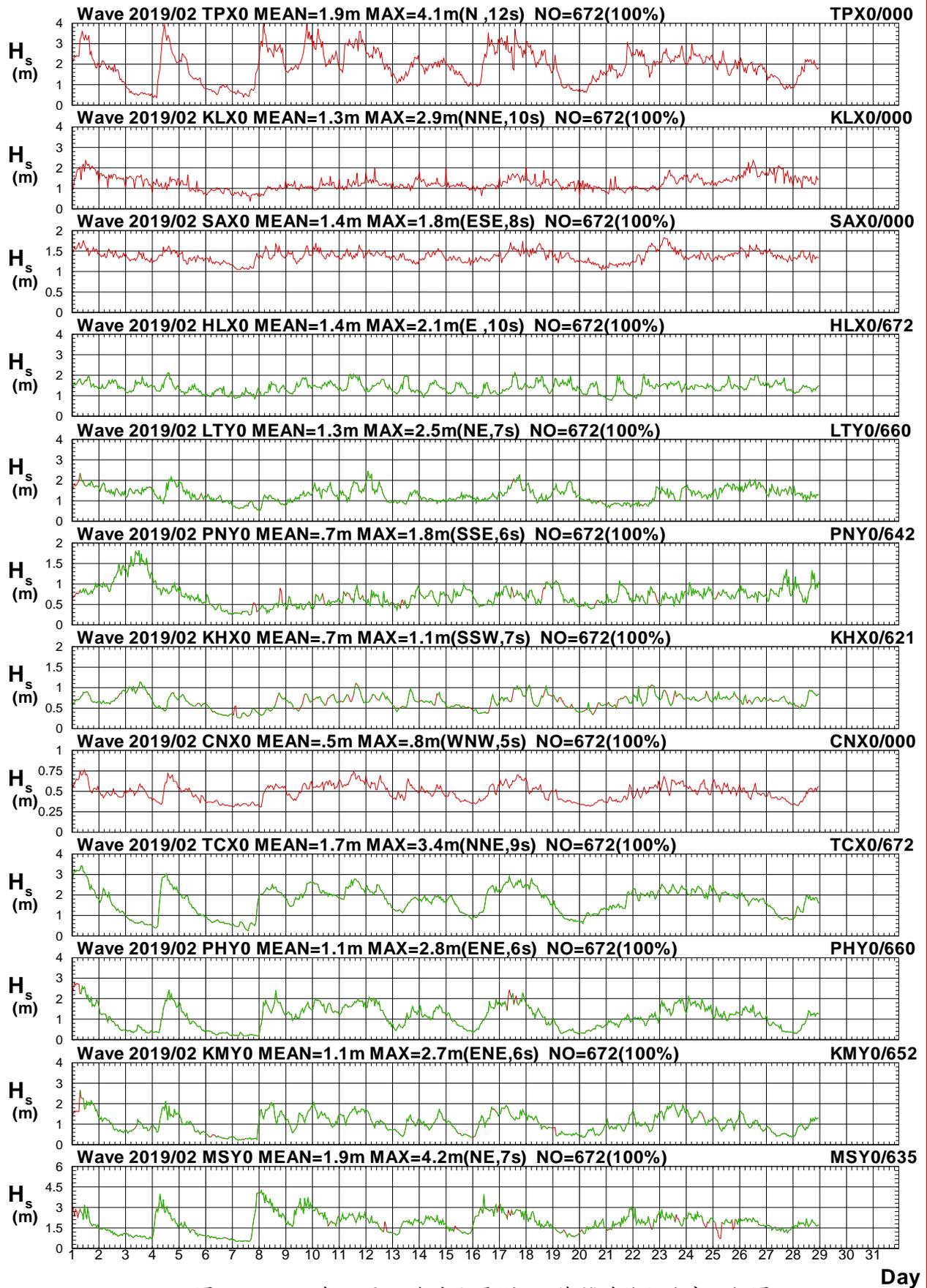


圖3.7 2019年2月12海域主要測站1修補前後之波高比較圖

V192TPX0.1HA V192TPX0.1HO V192KLX0.1HA V192KLX0.1HO V192SAX0.1HA V192SAX0.1HO
 V192HLX0.1HA V192HLX0.1HO V192LTY0.1HA V192LTY0.1HO V192PNY0.1HA V192PNY0.1HO

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Twelve Seas Wave T_p at 2019/02

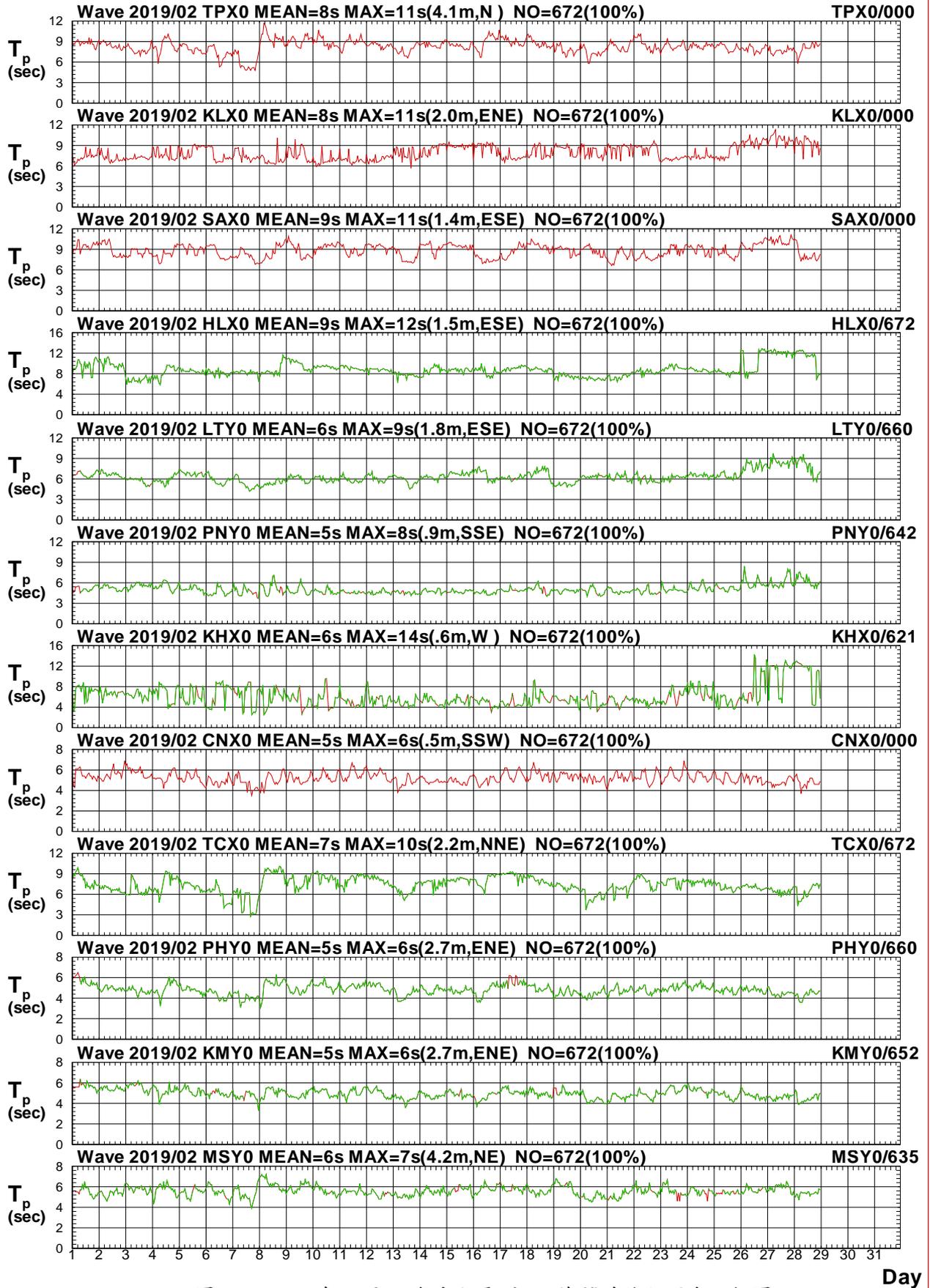


圖3.8 2019年2月12海域主要測站1修補前後之週期比較圖

V192TPX0.1HA V192TPX0.1HO V192KLX0.1HA V192KLX0.1HO V192SAX0.1HA V192SAX0.1HO
 V192HLX0.1HA V192HLX0.1HO V192LTY0.1HA V192LTY0.1HO V192PNY0.1HA V192PNY0.1HO

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Twelve Seas Wave Direction at 2019/02

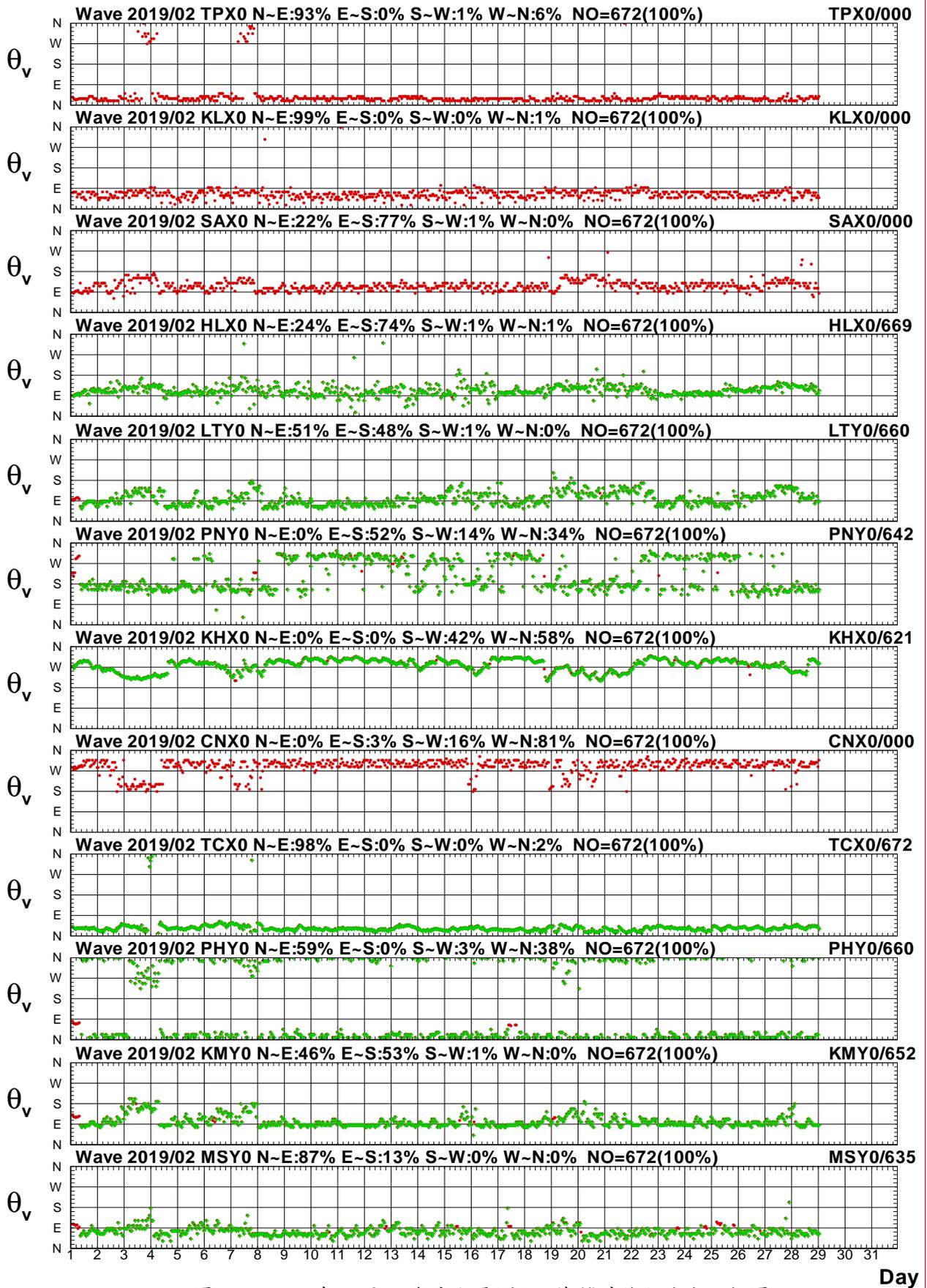


圖3.9 2019年2月12海域主要測站1修補前後之波向比較圖

V192TPX0.1HA V192TPX0.1HO V192KLX0.1HA V192KLX0.1HO V192SAX0.1HA V192SAX0.1HO
 V192HLX0.1HA V192HLX0.1HO V192LTY0.1HA V192LTY0.1HO V192PNY0.1HA V192PNY0.1HO

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Twelve Seas Wave H_s at 2019/03

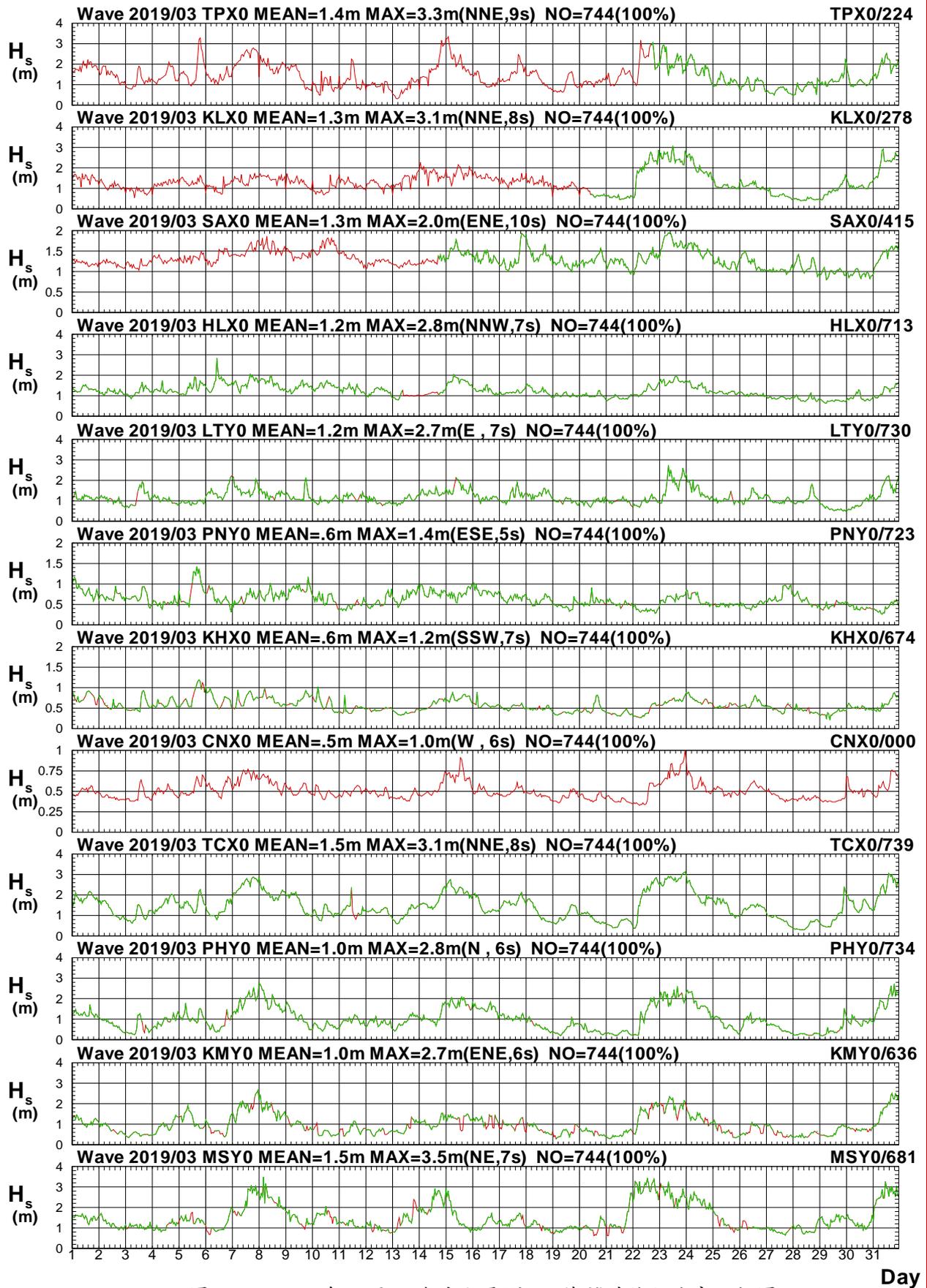


圖3.10 2019年3月12海域主要測站1修補前後之波高比較圖

V193TPX0.1HA V193TPX0.1HO V193KLX0.1HA V193KLX0.1HO V193SAX0.1HA V193SAX0.1HO
 V193HLX0.1HA V193HLX0.1HO V193LTY0.1HA V193LTY0.1HO V193PNY0.1HA V193PNY0.1HO

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Twelve Seas Wave T_p at 2019/03

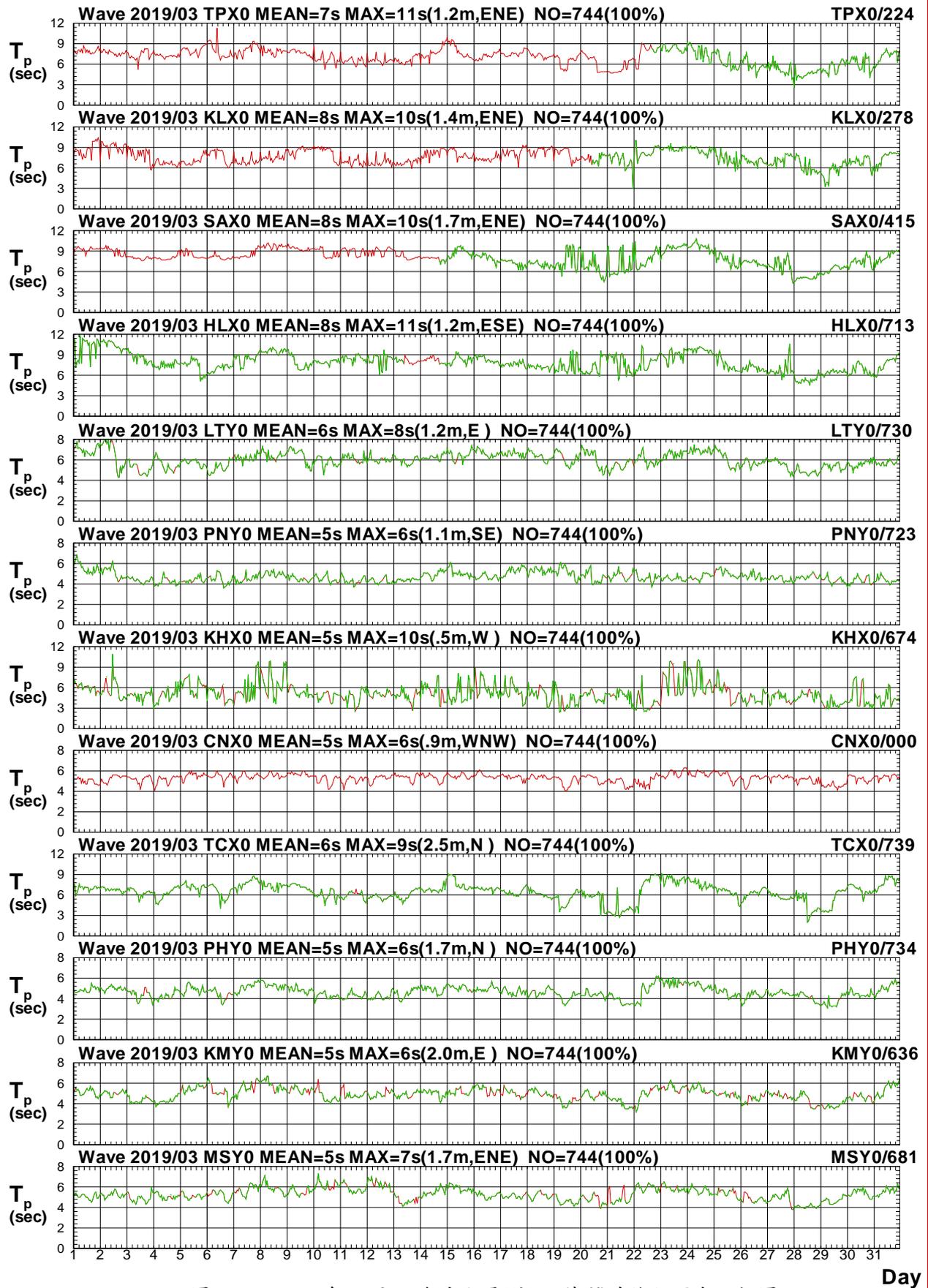


圖3.11 2019年3月12海域主要測站1修補前後之週期比較圖

V193TPX0.1HA V193TPX0.1HO V193KLX0.1HA V193KLX0.1HO V193SAX0.1HA V193SAX0.1HO
 V193HLX0.1HA V193HLX0.1HO V193LTY0.1HA V193LTY0.1HO V193PNY0.1HA V193PNY0.1HO

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Twelve Seas Wave Direction at 2019/03

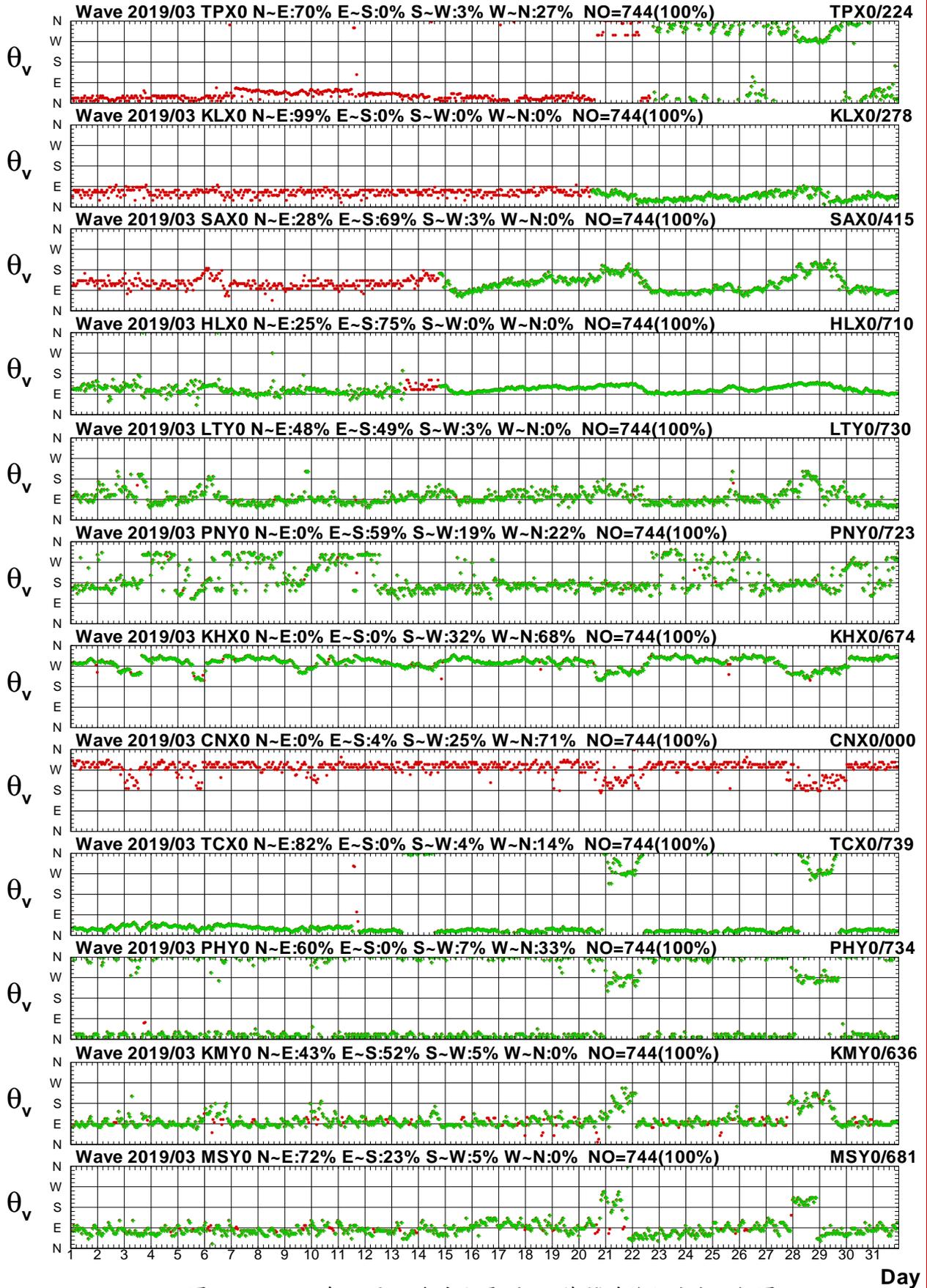


圖3.12 2019年3月12海域主要測站1修補前後之波向比較圖

V193TPX0.1HA V193TPX0.1H0 V193KLX0.1HA V193KLX0.1H0 V193SAX0.1HA V193SAX0.1H0
 V193HLX0.1HA V193HLX0.1H0 V193LTY0.1HA V193LTY0.1H0 V193PNY0.1HA V193PNY0.1H0

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Twelve Seas Wave H_s at 2019/04

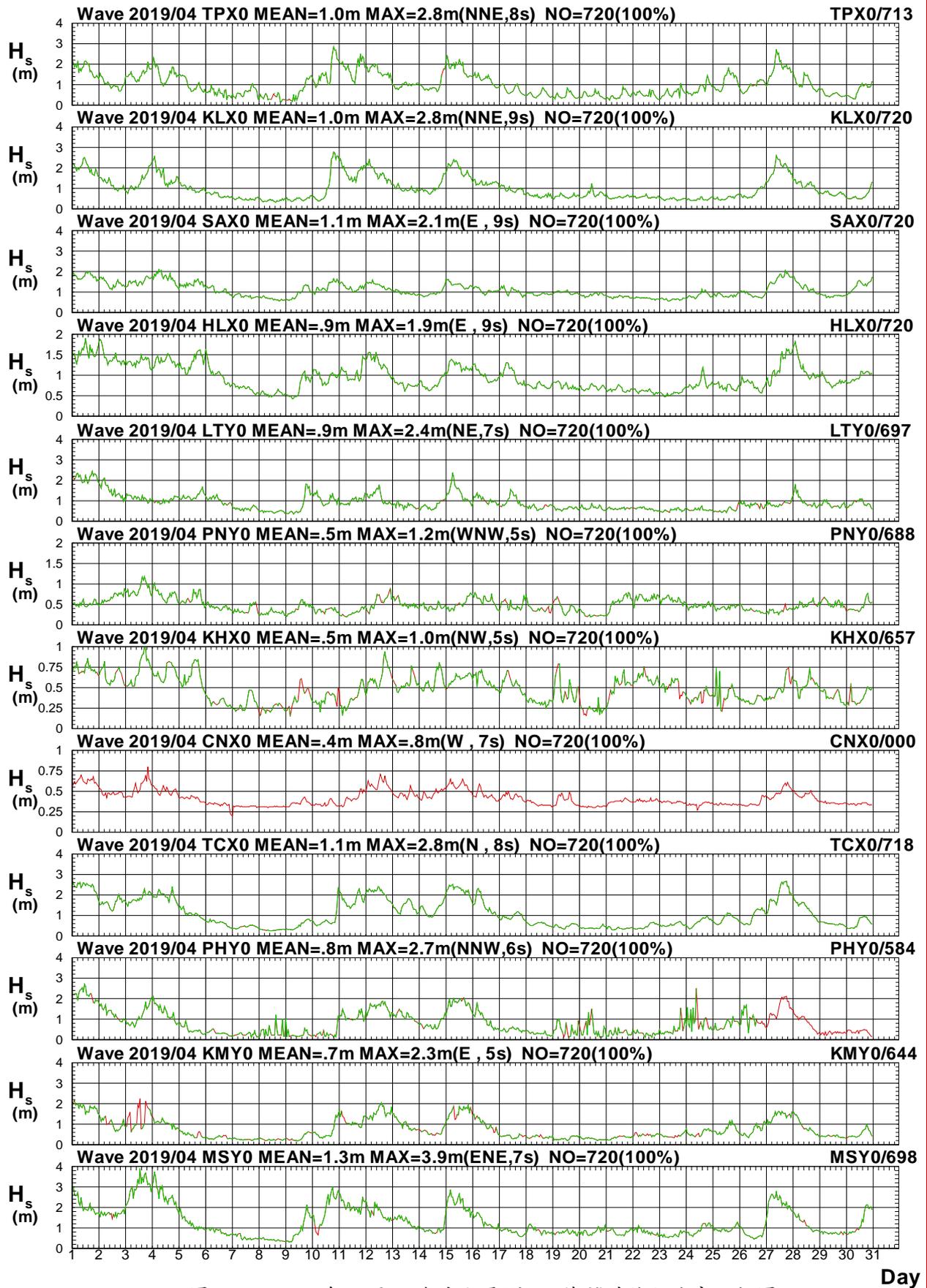


圖3.13 2019年4月12海域主要測站1修補前後之波高比較圖

V194TPX0.1HA V194TPX0.1HO V194KLX0.1HA V194KLX0.1HO V194SAX0.1HA V194SAX0.1HO
 V194HLX0.1HA V194HLX0.1HO V194LTY0.1HA V194LTY0.1HO V194PNY0.1HA V194PNY0.1HO

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Twelve Seas Wave T_p at 2019/04

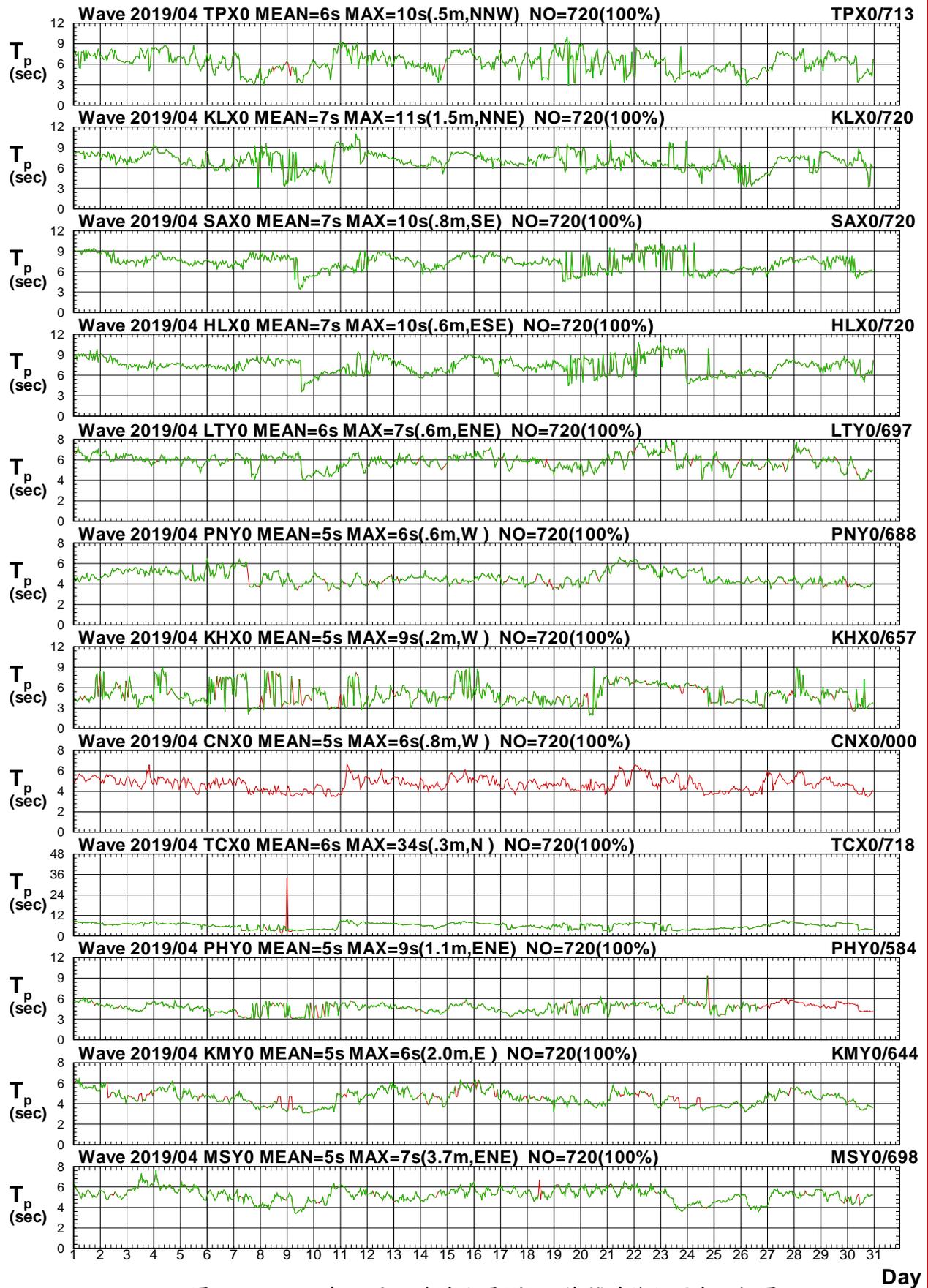


圖3.14 2019年4月12海域主要測站1修補前後之週期比較圖

V194TPX0.1HA V194TPX0.1HO V194KLX0.1HA V194KLX0.1HO V194SAX0.1HA V194SAX0.1HO
 V194HLX0.1HA V194HLX0.1HO V194LTY0.1HA V194LTY0.1HO V194PNY0.1HA V194PNY0.1HO

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Twelve Seas Wave Direction at 2019/04

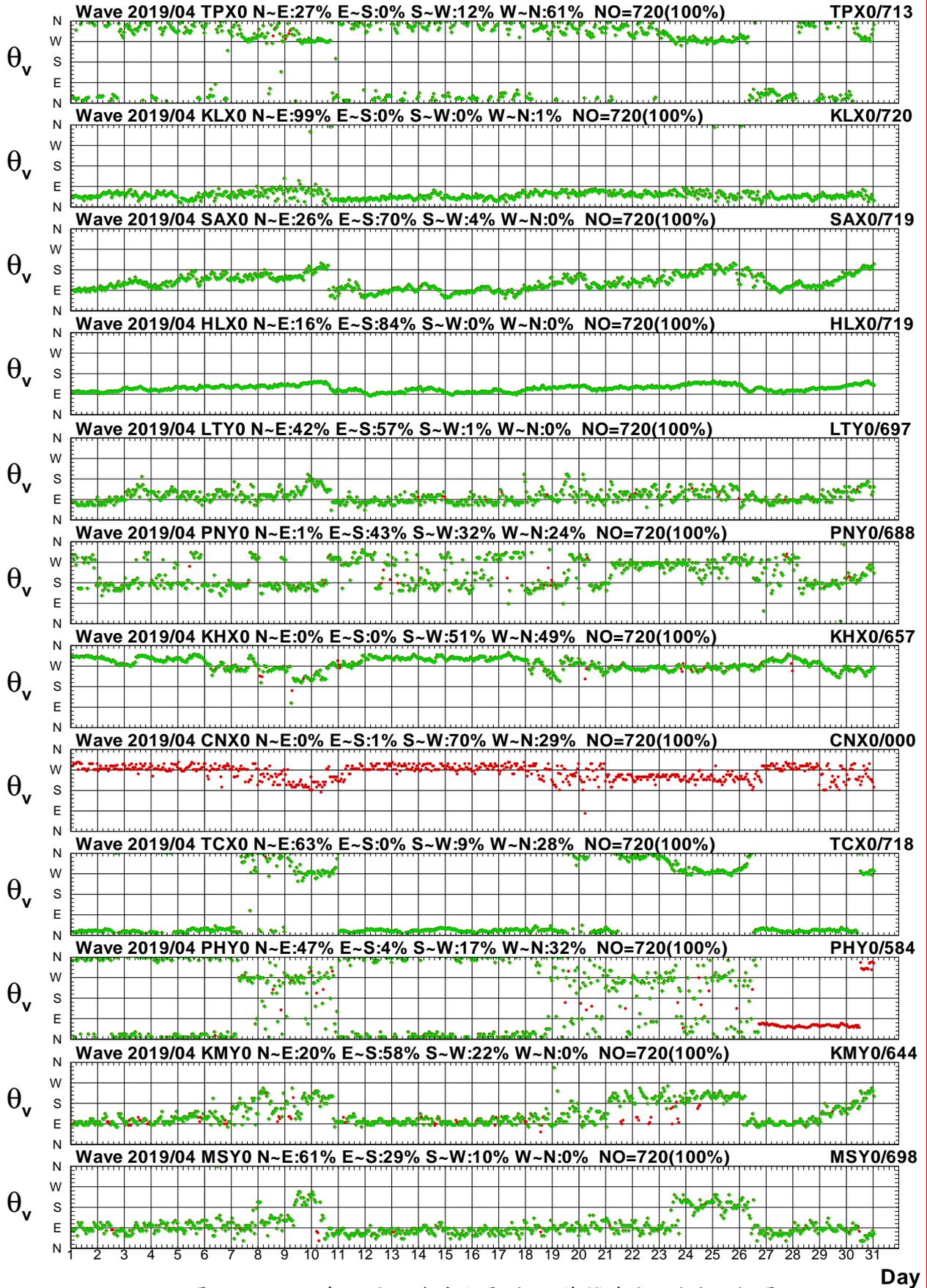


圖3.15 2019年4月12海域主要測站1修補前後之波向比較圖

V194TPX0.1HA V194TPX0.1HO V194KLX0.1HA V194KLX0.1HO V194SAX0.1HA V194SAX0.1HO
 V194HLX0.1HA V194HLX0.1HO V194LTY0.1HA V194LTY0.1HO V194PNY0.1HA V194PNY0.1HO

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Twelve Seas Wave H_s at 2019/05

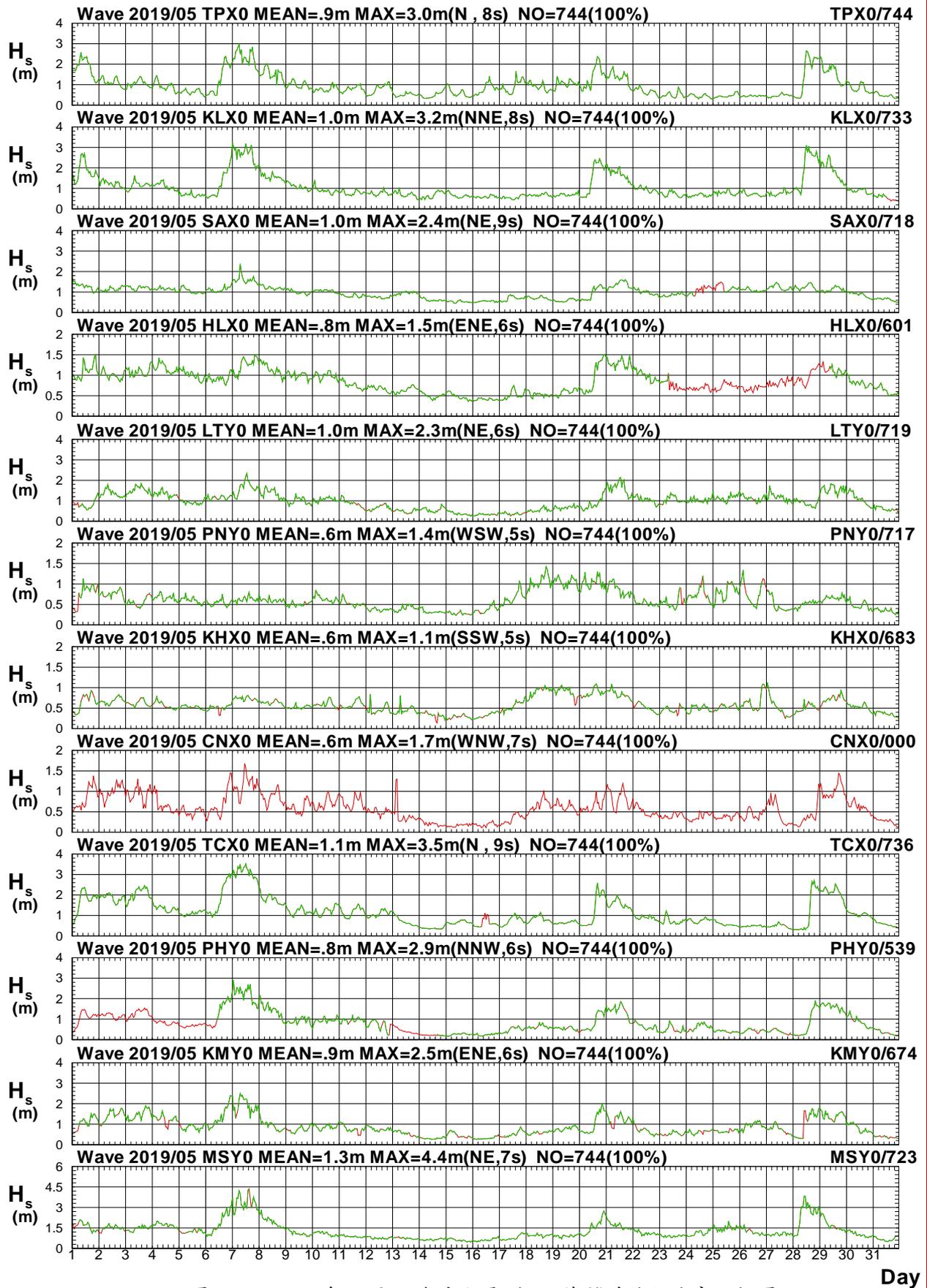


圖3.16 2019年5月12海域主要測站1修補前後之波高比較圖

V195TPX0.1HA V195TPX0.1HO V195KLX0.1HA V195KLX0.1HO V195SAX0.1HA V195SAX0.1HO
 V195HLX0.1HA V195HLX0.1HO V195LTY0.1HA V195LTY0.1HO V195PNY0.1HA V195PNY0.1HO

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Twelve Seas Wave T_p at 2019/05

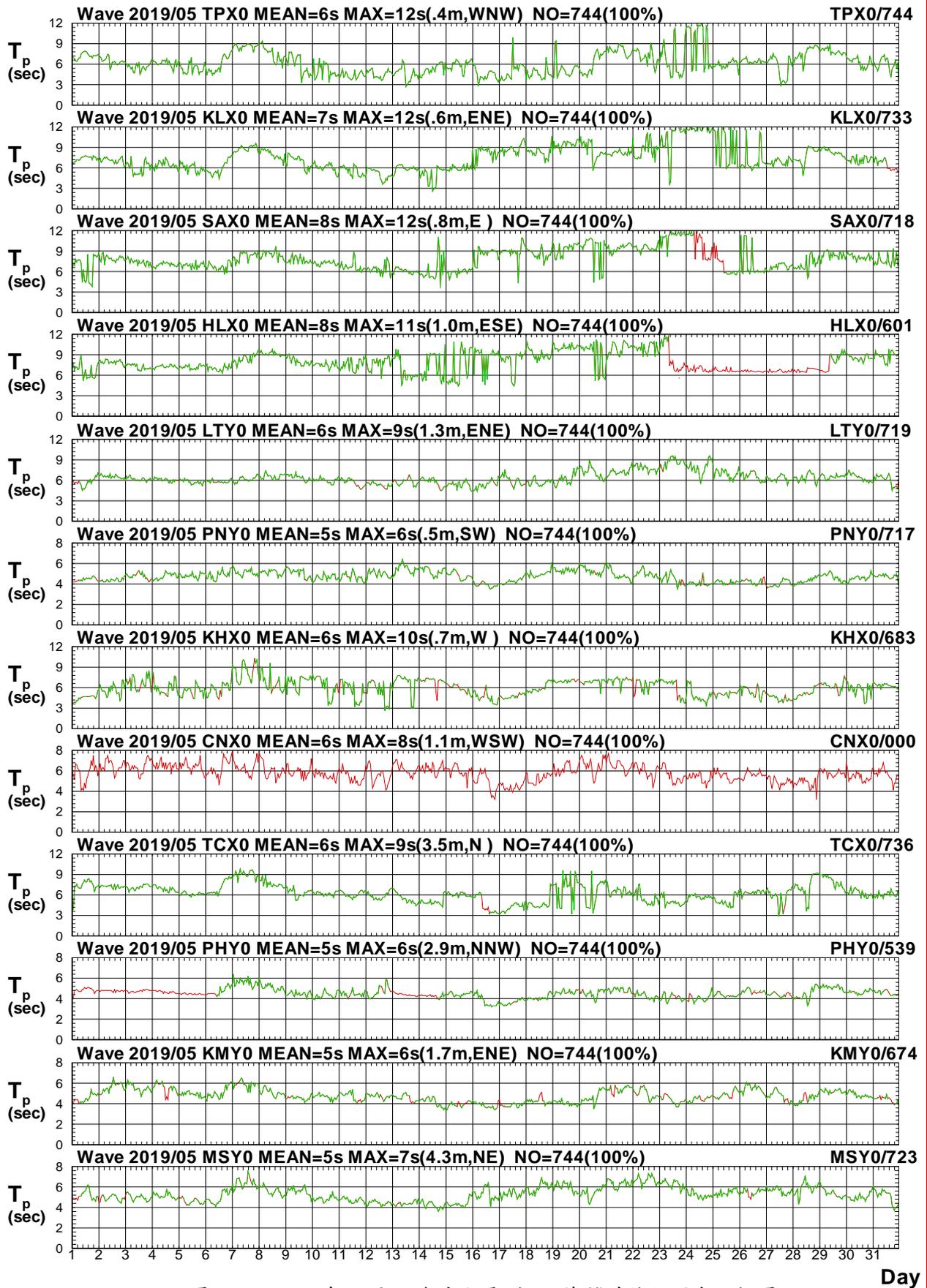


圖3.17 2019年5月12海域主要測站1修補前後之週期比較圖

V195TPX0.1HA V195TPX0.1HO V195KLX0.1HA V195KLX0.1HO V195SAX0.1HA V195SAX0.1HO
 V195HLX0.1HA V195HLX0.1HO V195LTY0.1HA V195LTY0.1HO V195PNY0.1HA V195PNY0.1HO

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Twelve Seas Wave Direction at 2019/05

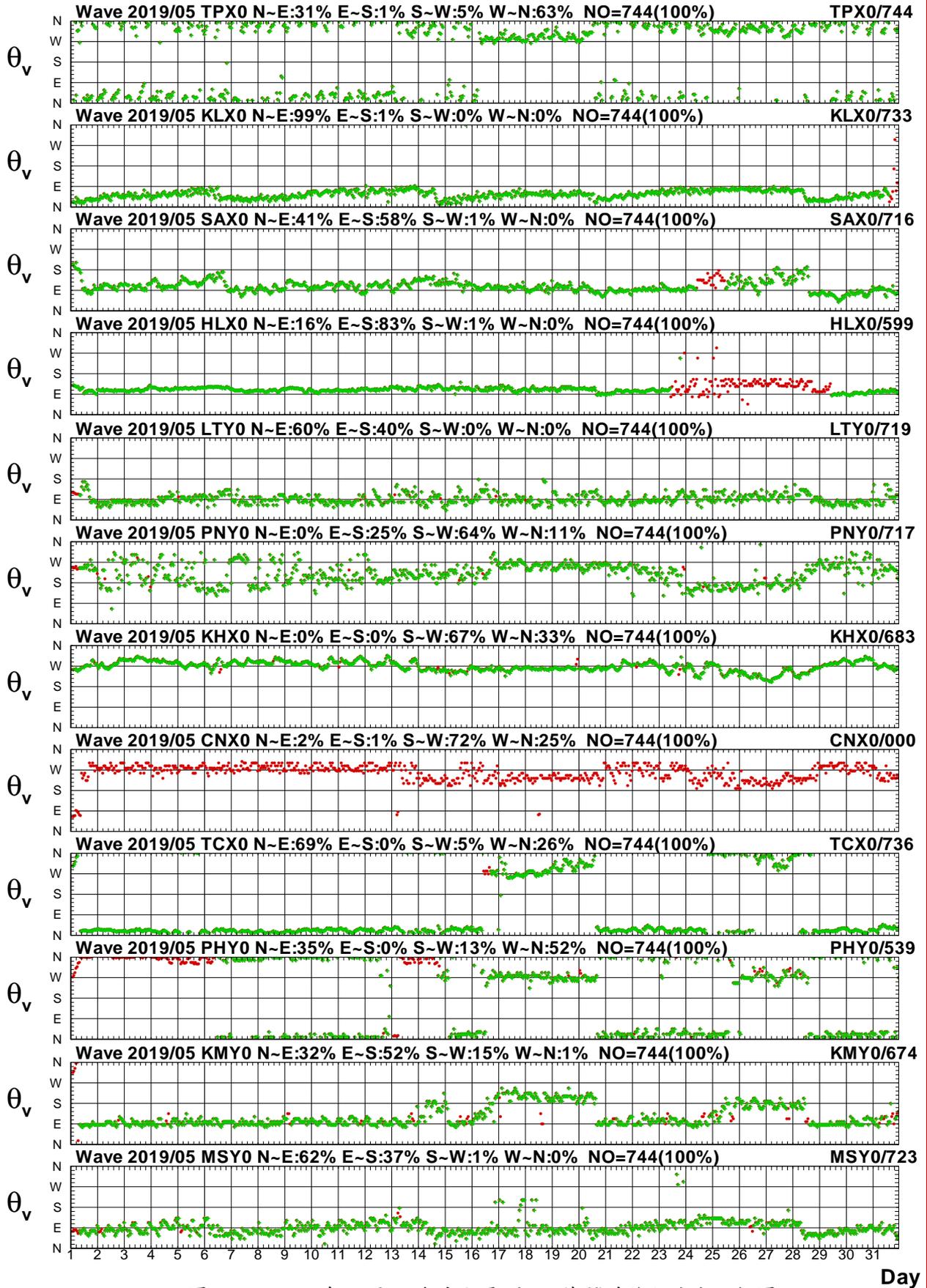


圖3.18 2019年5月12海域主要測站1修補前後之波向比較圖

V195TPX0.1HA V195TPX0.1HO V195KLX0.1HA V195KLX0.1HO V195SAX0.1HA V195SAX0.1HO
 V195HLX0.1HA V195HLX0.1HO V195LTY0.1HA V195LTY0.1HO V195PNY0.1HA V195PNY0.1HO

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Twelve Seas Wave H_s at 2019/06

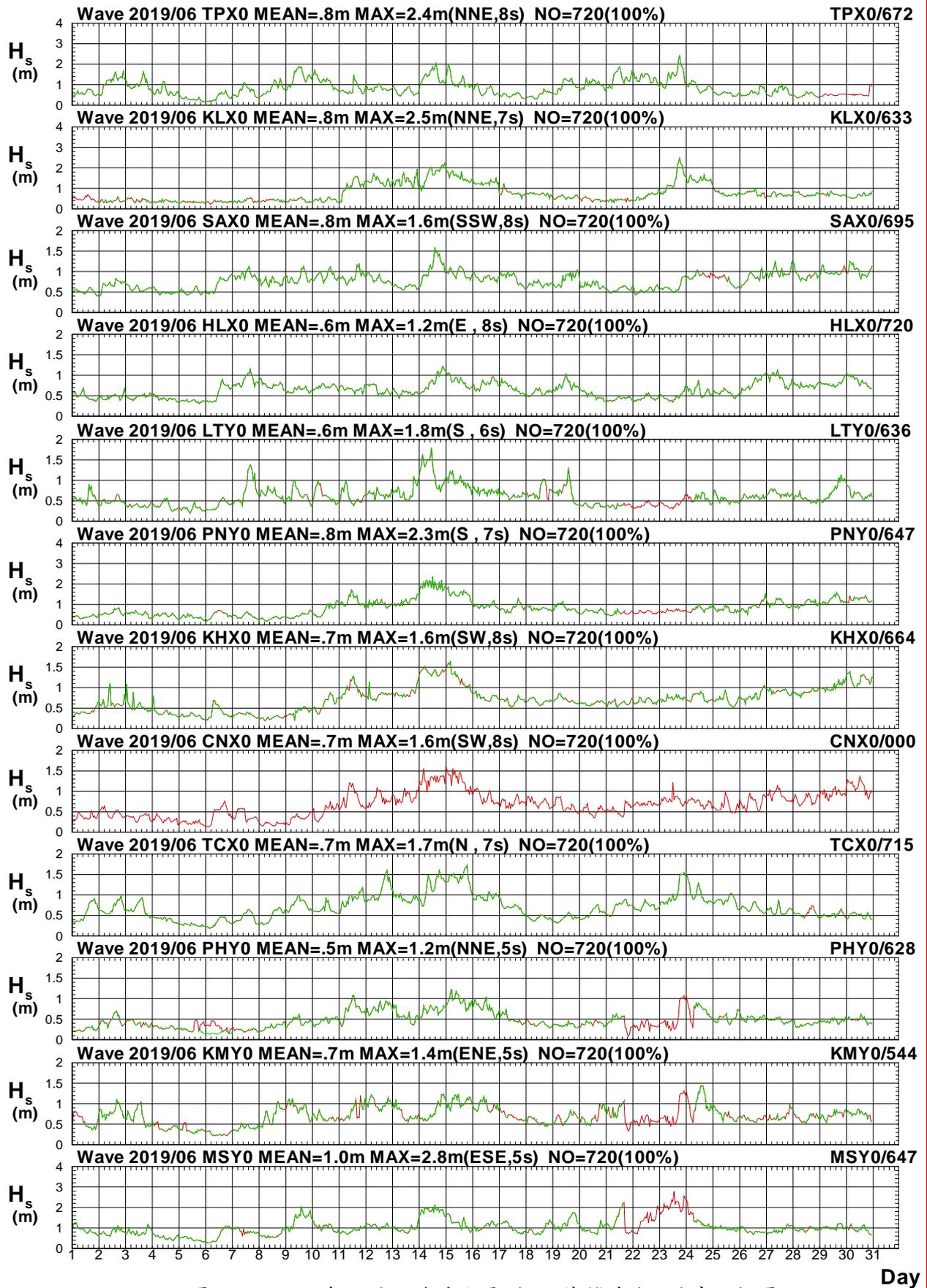


圖3.19 2019年6月12海域主要測站1修補前後之波高比較圖

V196TPX0.1HA V196TPX0.1HO V196KLX0.1HA V196KLX0.1HO V196SAX0.1HA V196SAX0.1HO
 V196HLX0.1HA V196HLX0.1HO V196LTY0.1HA V196LTY0.1HO V196PNY0.1HA V196PNY0.1HO

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Twelve Seas Wave T_p at 2019/06

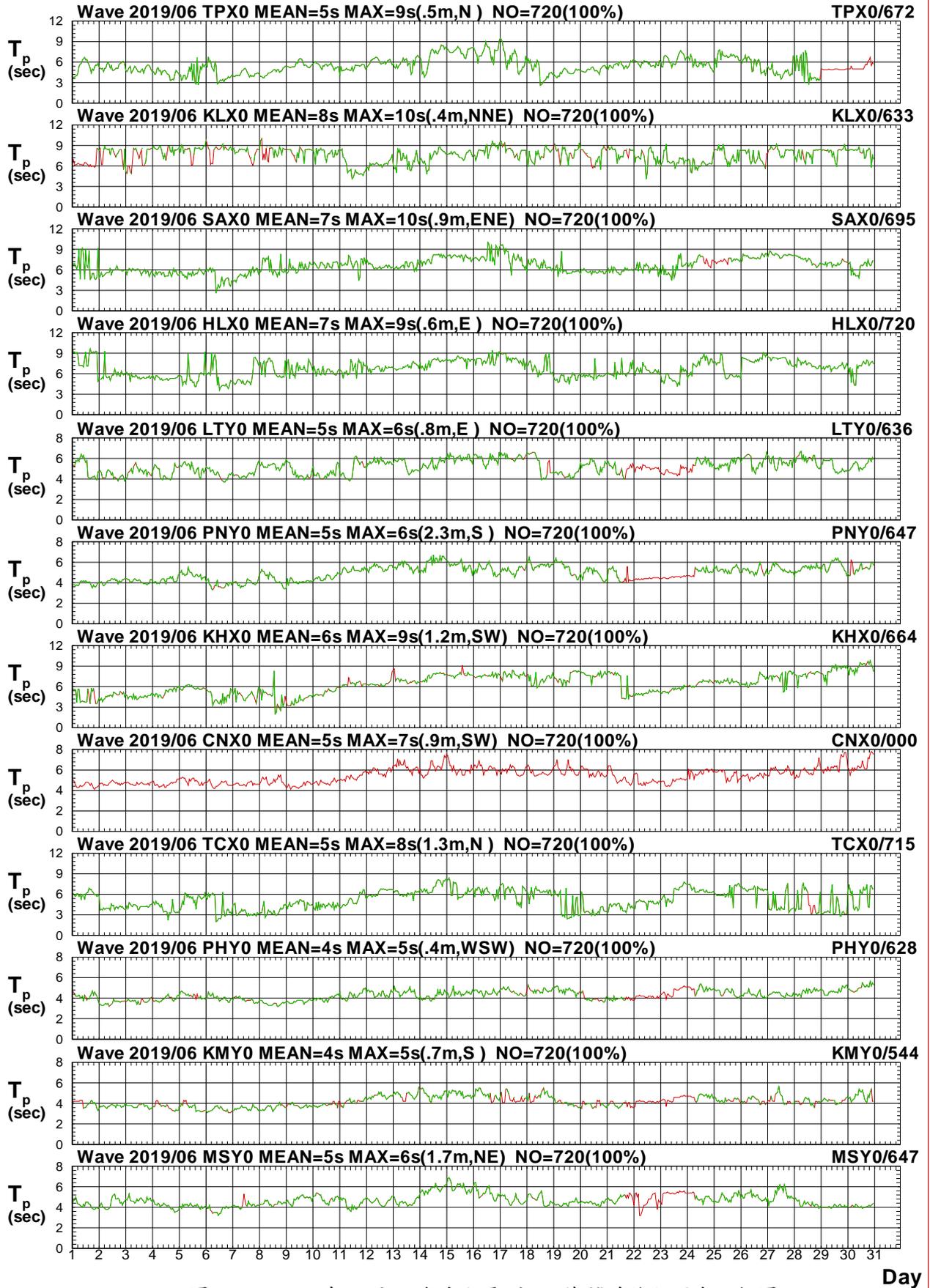


圖3.20 2019年6月12海域主要測站1修補前後之週期比較圖

V196TPX0.1HA V196TPX0.1HO V196KLX0.1HA V196KLX0.1HO V196SAX0.1HA V196SAX0.1HO
 V196HLX0.1HA V196HLX0.1HO V196LTY0.1HA V196LTY0.1HO V196PNY0.1HA V196PNY0.1HO

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Twelve Seas Wave Direction at 2019/06

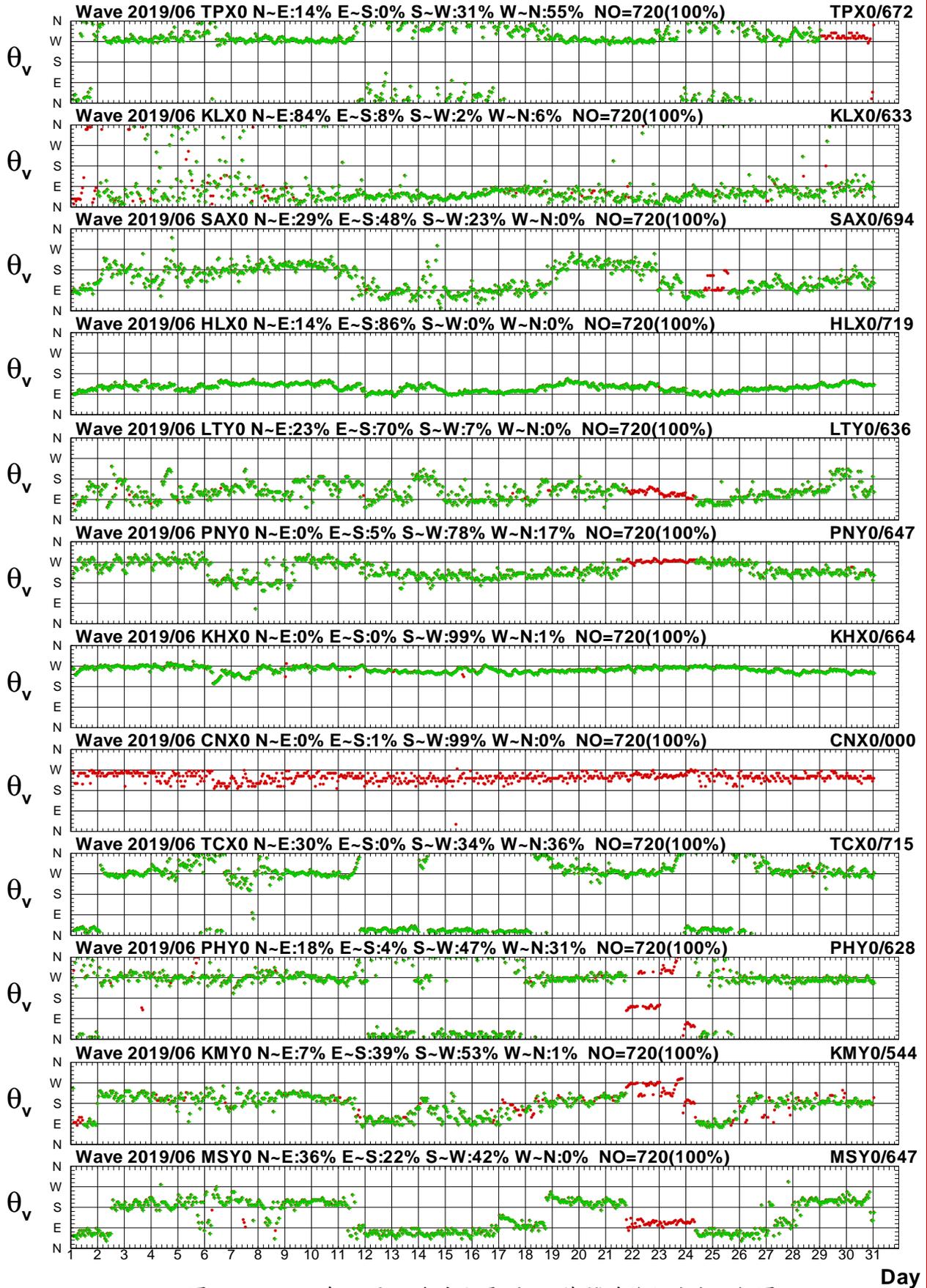


圖3.21 2019年6月12海域主要測站1修補前後之波向比較圖

V196TPX0.1HA V196TPX0.1H0 V196KLX0.1HA V196KLX0.1H0 V196SAX0.1HA V196SAX0.1H0
 V196HLX0.1HA V196HLX0.1H0 V196LTY0.1HA V196LTY0.1H0 V196PNY0.1HA V196PNY0.1H0

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Twelve Seas Wave H_s at 2019/07

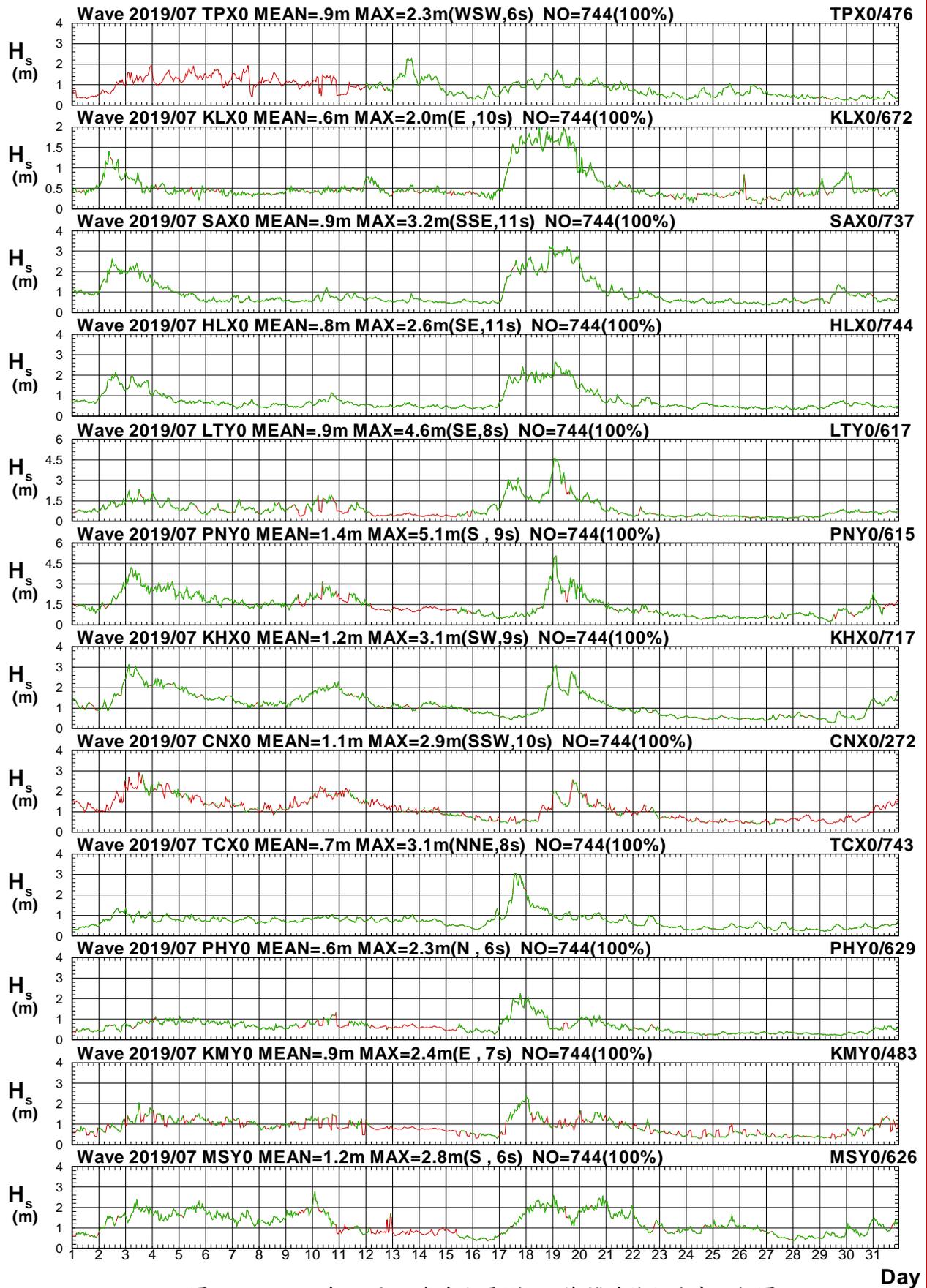


圖3.22 2019年7月12海域主要測站1修補前後之波高比較圖

V197TPX0.1HA V197TPX0.1HO V197KLX0.1HA V197KLX0.1HO V197SAX0.1HA V197SAX0.1HO
 V197HLX0.1HA V197HLX0.1HO V197LTY0.1HA V197LTY0.1HO V197PNY0.1HA V197PNY0.1HO

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Twelve Seas Wave T_p at 2019/07

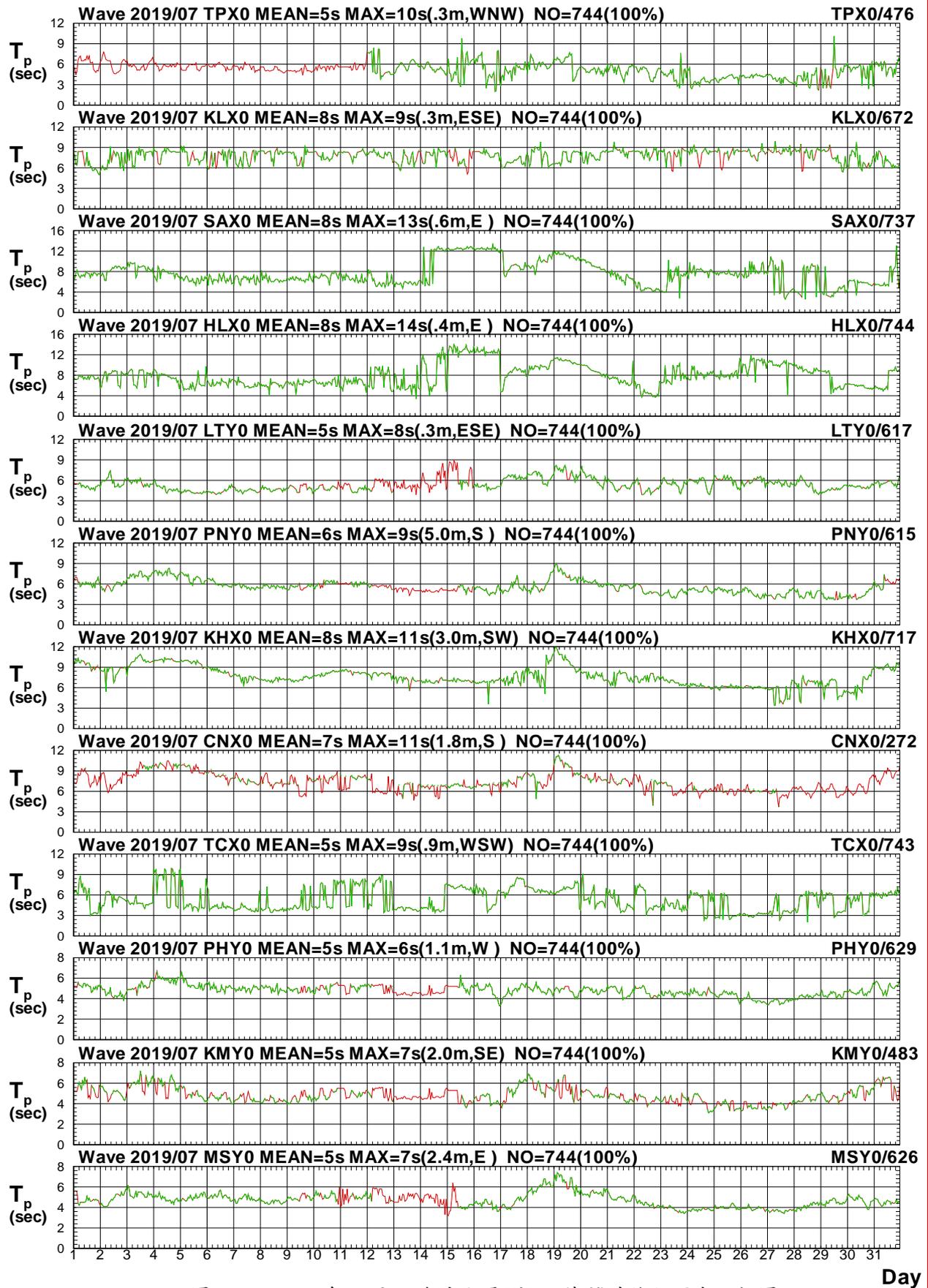


圖3.23 2019年7月12海域主要測站1修補前後之週期比較圖

V197TPX0.1HA V197TPX0.1HO V197KLX0.1HA V197KLX0.1HO V197SAX0.1HA V197SAX0.1HO
 V197HLX0.1HA V197HLX0.1HO V197LTY0.1HA V197LTY0.1HO V197PNY0.1HA V197PNY0.1HO

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Twelve Seas Wave Direction at 2019/07

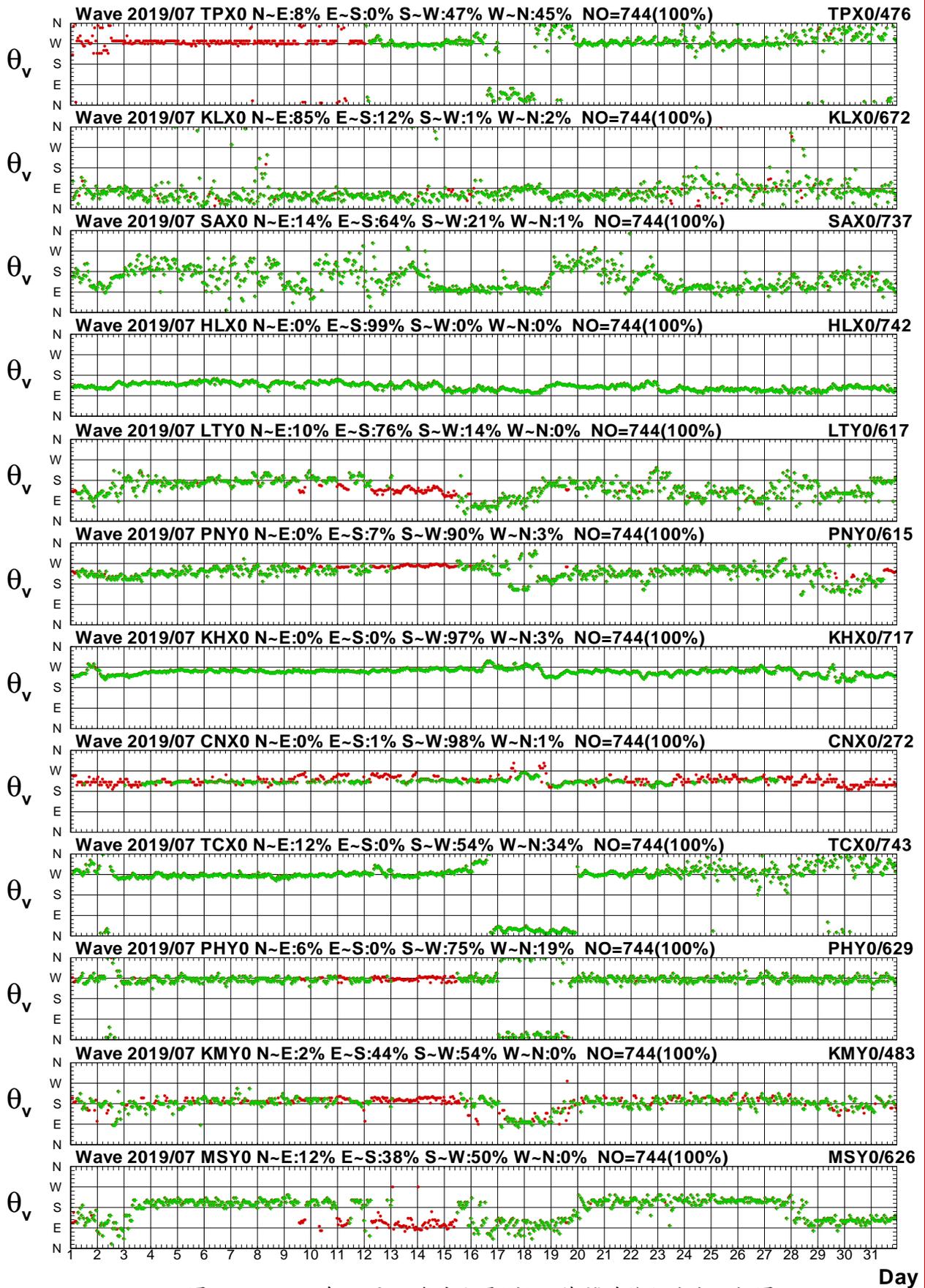


圖3.24 2019年7月12海域主要測站1修補前後之波向比較圖

V197TPX0.1HA V197TPX0.1HO V197KLX0.1HA V197KLX0.1HO V197SAX0.1HA V197SAX0.1HO
 V197HLX0.1HA V197HLX0.1HO V197LTY0.1HA V197LTY0.1HO V197PNY0.1HA V197PNY0.1HO

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Twelve Seas Wave H_s at 2019/08

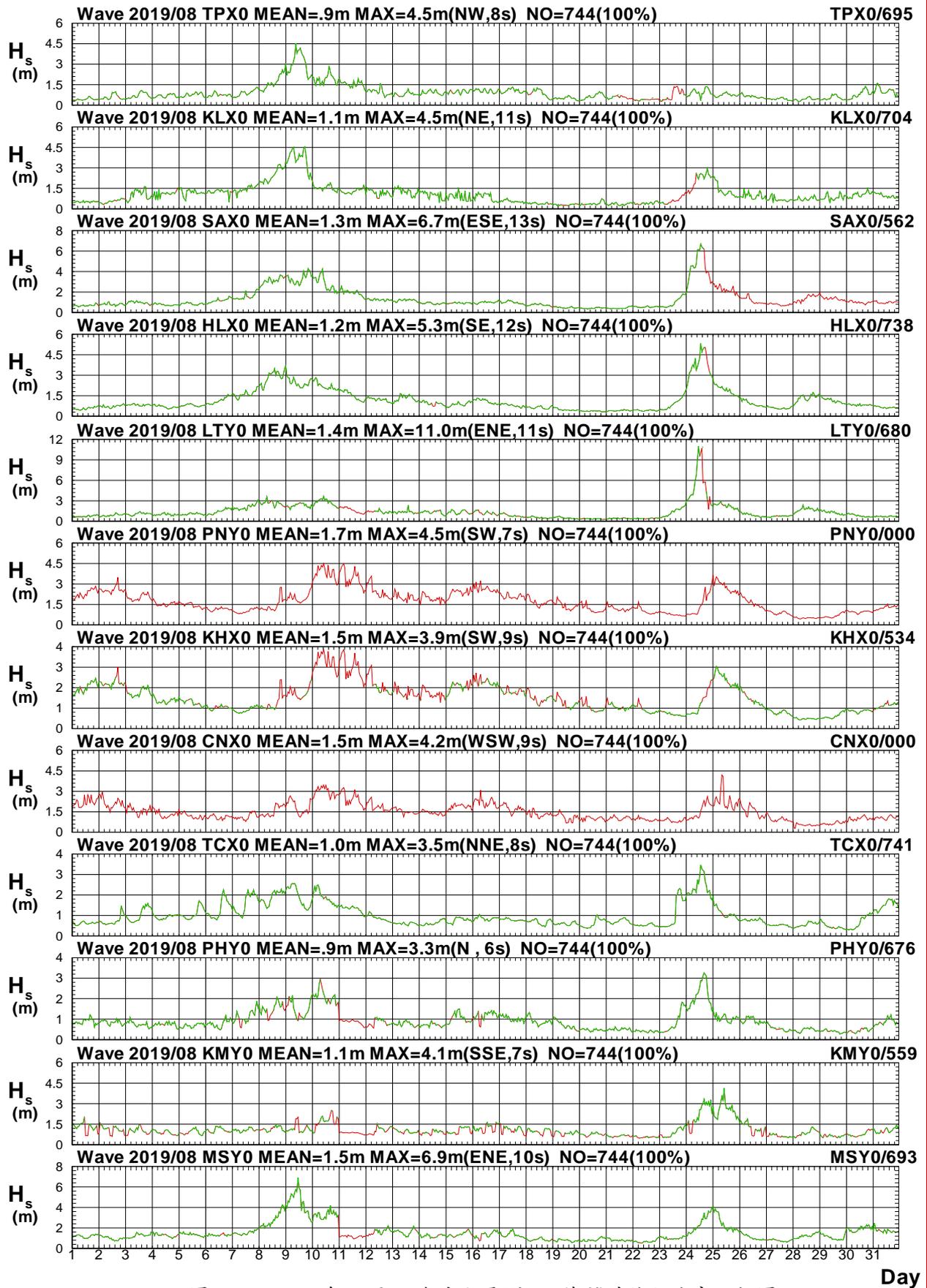


圖3.25 2019年8月12海域主要測站1修補前後之波高比較圖

V198TPX0.1HA V198TPX0.1HO V198KLX0.1HA V198KLX0.1HO V198SAX0.1HA V198SAX0.1HO
 V198HLX0.1HA V198HLX0.1HO V198LTY0.1HA V198LTY0.1HO V198PNY0.1HA V198PNY0.1HO

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Twelve Seas Wave T_p at 2019/08

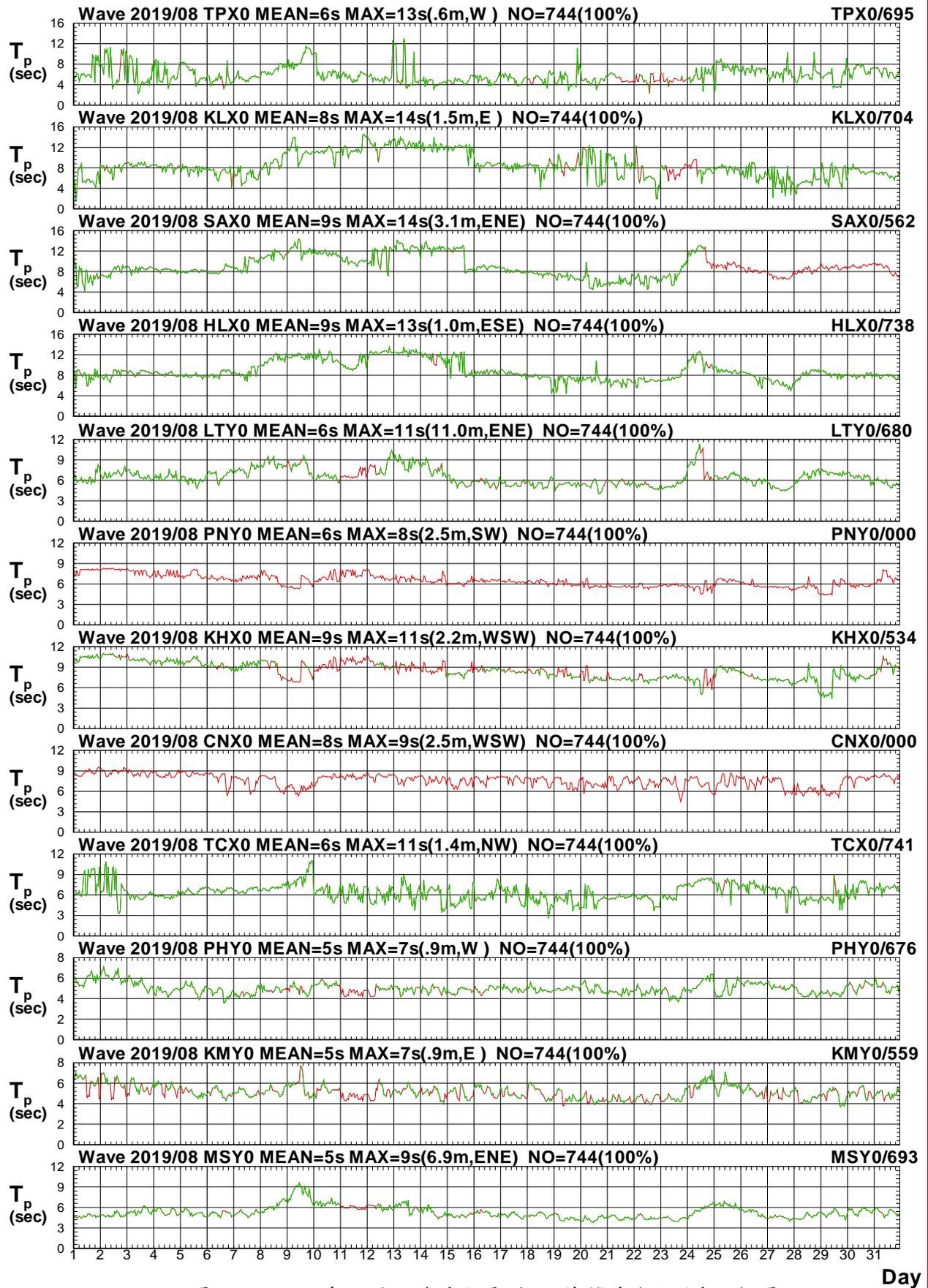


圖3.26 2019年 8月12海域主要測站1修補前後之週期比較圖

V198TPX0.1HA V198TPX0.1HO V198KLX0.1HA V198KLX0.1HO V198SAX0.1HA V198SAX0.1HO
 V198HLX0.1HA V198HLX0.1HO V198LTY0.1HA V198LTY0.1HO V198PNY0.1HA V198PNY0.1HO

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Twelve Seas Wave Direction at 2019/08

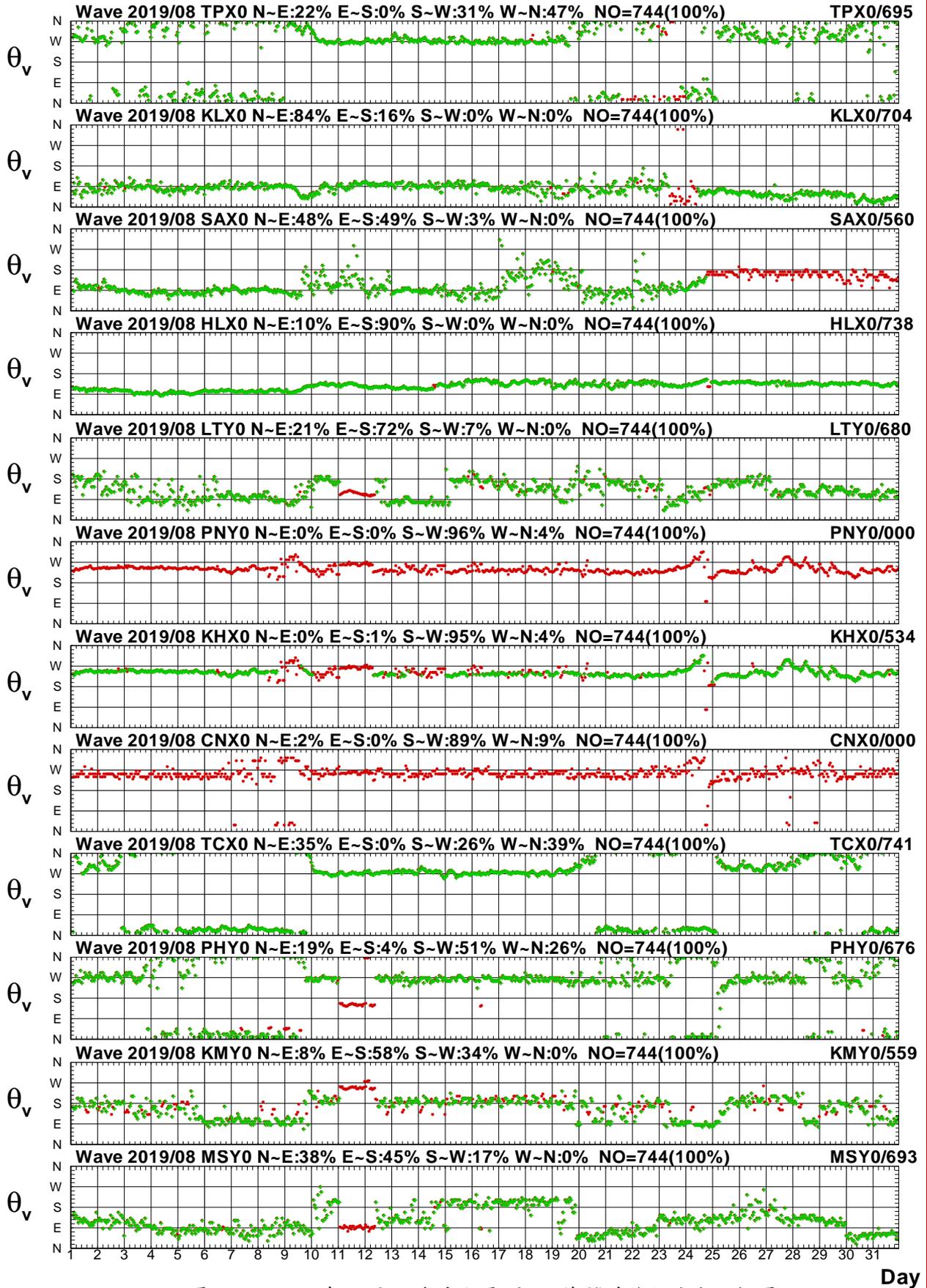


圖3.27 2019年8月12海域主要測站1修補前後之波向比較圖

V198TPX0.1HA V198TPX0.1H0 V198KLX0.1HA V198KLX0.1H0 V198SAX0.1HA V198SAX0.1H0
 V198HLX0.1HA V198HLX0.1H0 V198LTY0.1HA V198LTY0.1H0 V198PNY0.1HA V198PNY0.1H0

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Twelve Seas Wave H_s at 2019/09

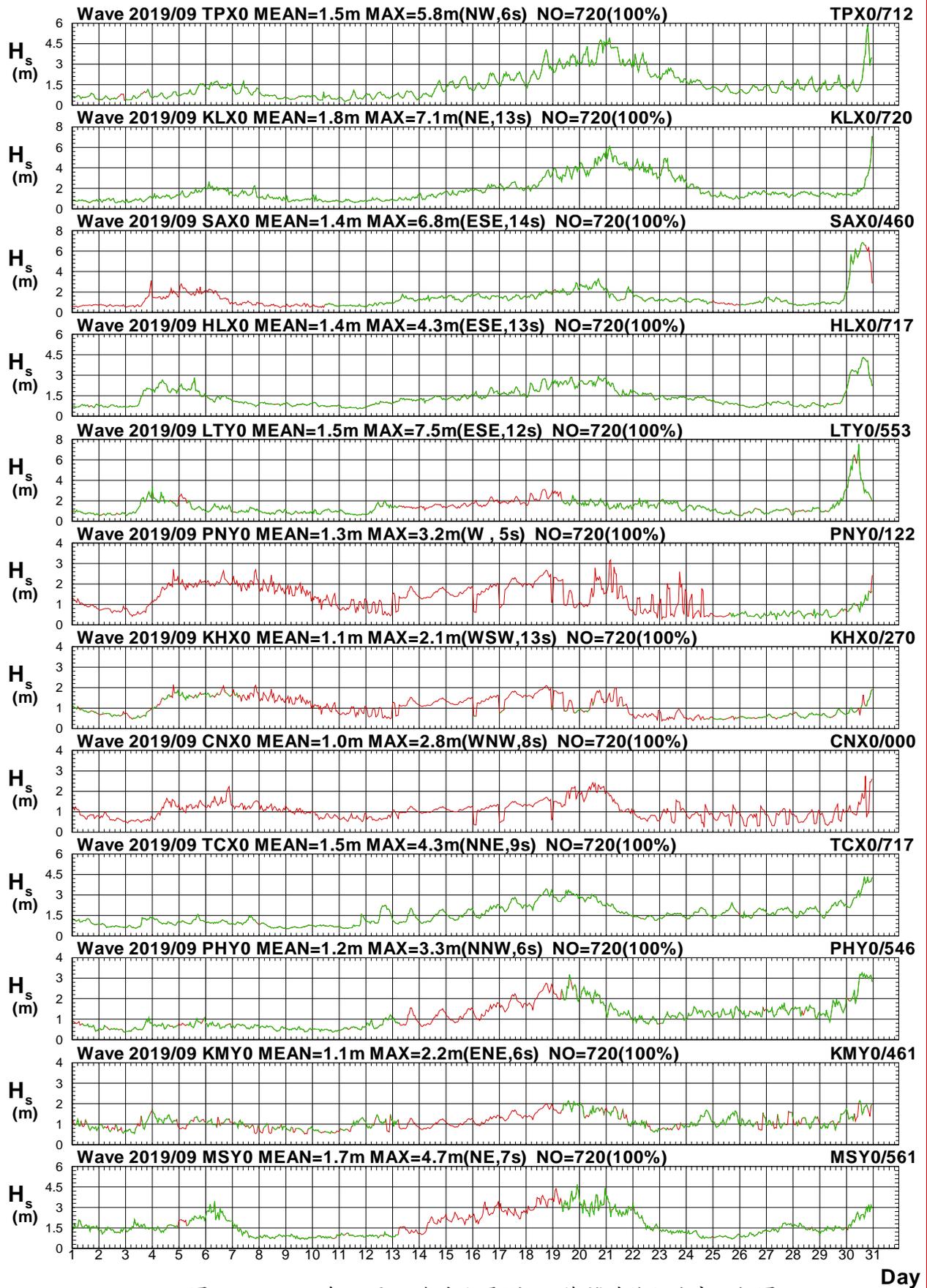


圖3.28 2019年9月12海域主要測站1修補前後之波高比較圖

V199TPX0.1HA V199TPX0.1HO V199KLX0.1HA V199KLX0.1HO V199SAX0.1HA V199SAX0.1HO
 V199HLX0.1HA V199HLX0.1HO V199LTY0.1HA V199LTY0.1HO V199PNY0.1HA V199PNY0.1HO

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Twelve Seas Wave T_p at 2019/09

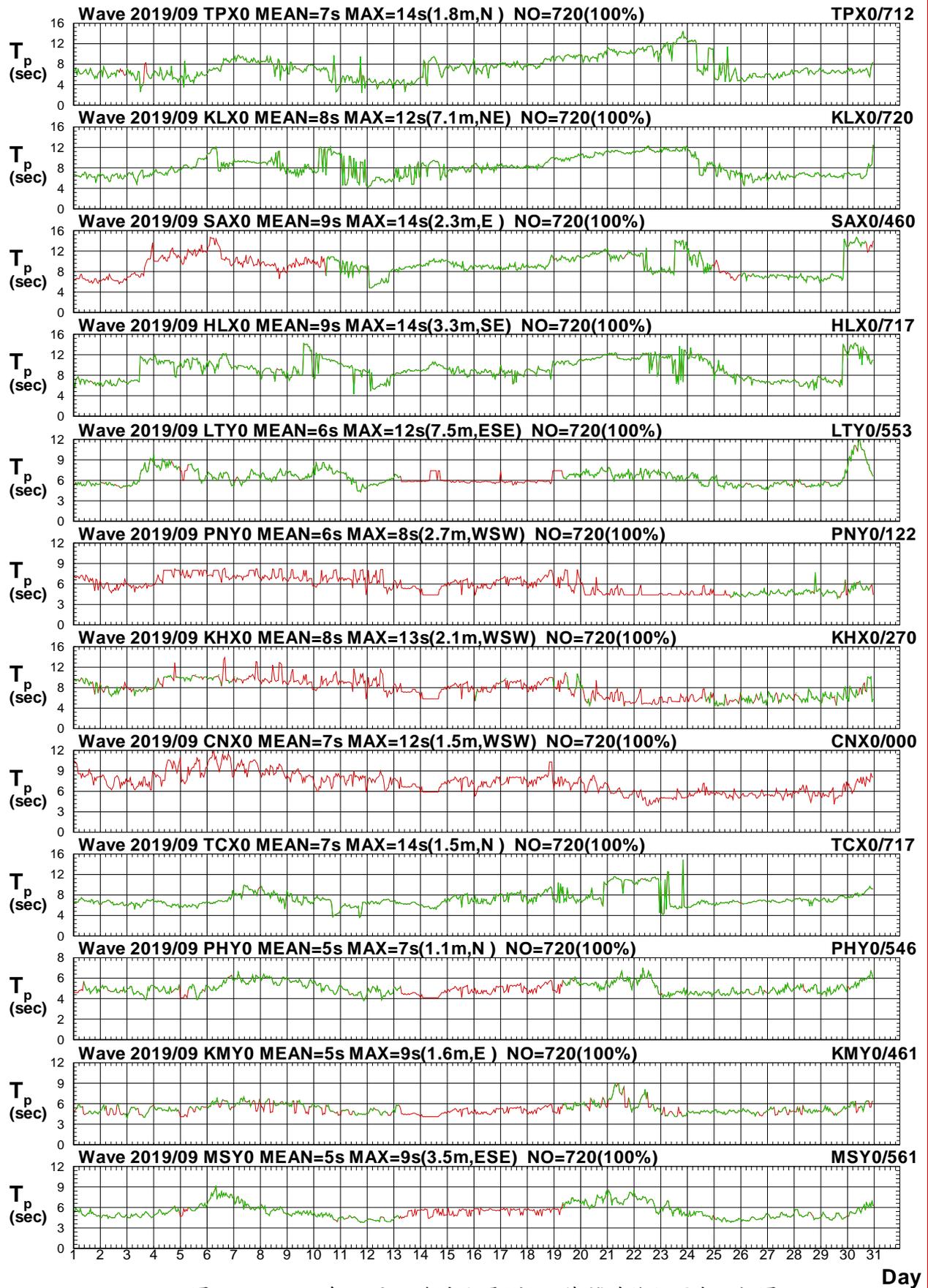


圖3.29 2019年9月12海域主要測站1修補前後之週期比較圖

V199TPX0.1HA V199TPX0.1HO V199KLX0.1HA V199KLX0.1HO V199SAX0.1HA V199SAX0.1HO
 V199HLX0.1HA V199HLX0.1HO V199LTY0.1HA V199LTY0.1HO V199PNY0.1HA V199PNY0.1HO

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Twelve Seas Wave Direction at 2019/09

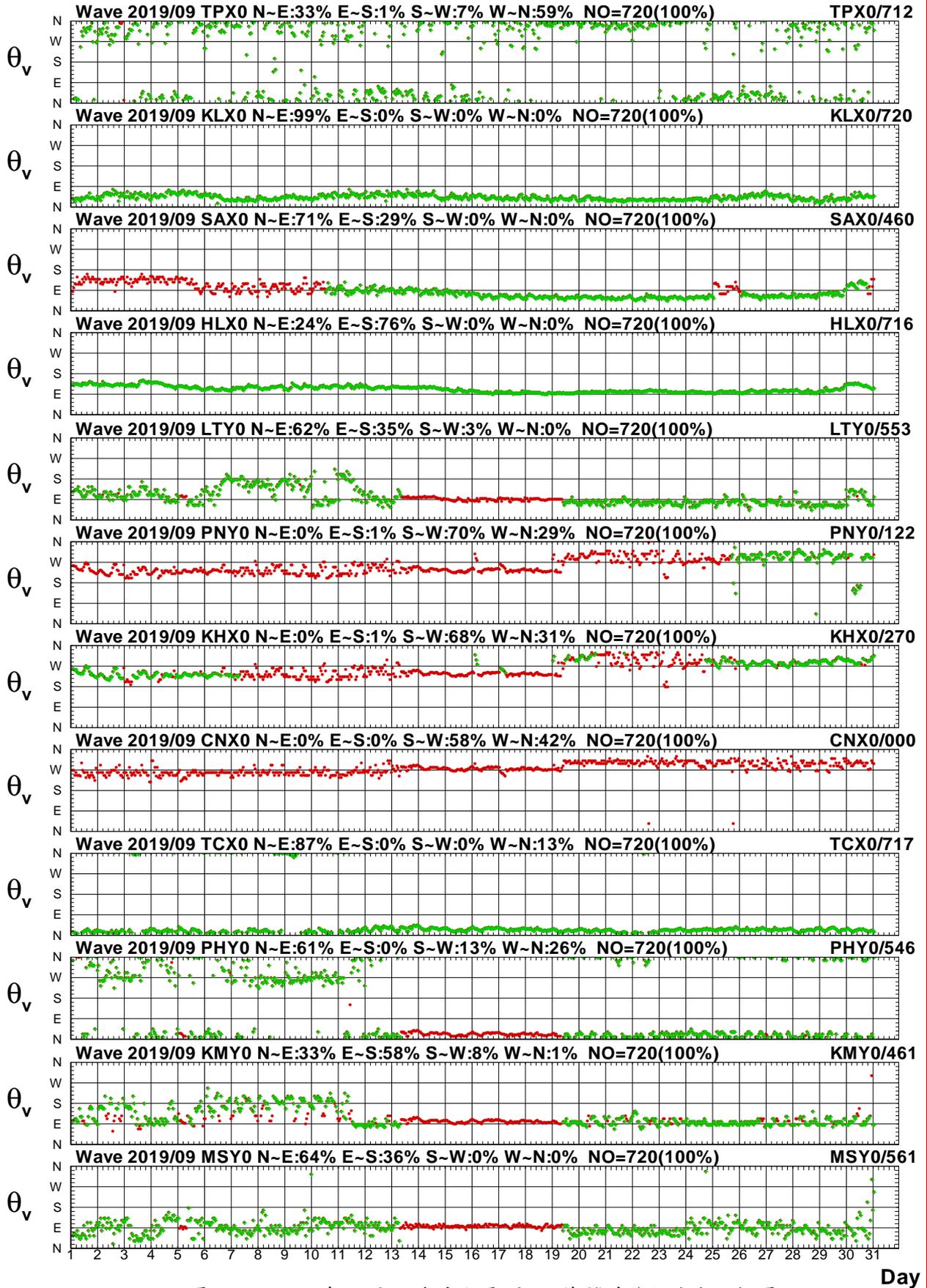


圖3.30 2019年9月12海域主要測站1修補前後之波向比較圖

V199TPX0.1HA V199TPX0.1H0 V199KLX0.1HA V199KLX0.1H0 V199SAX0.1HA V199SAX0.1H0
 V199HLX0.1HA V199HLX0.1H0 V199LTY0.1HA V199LTY0.1H0 V199PNY0.1HA V199PNY0.1H0

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Twelve Seas Wave H_s at 2019/10

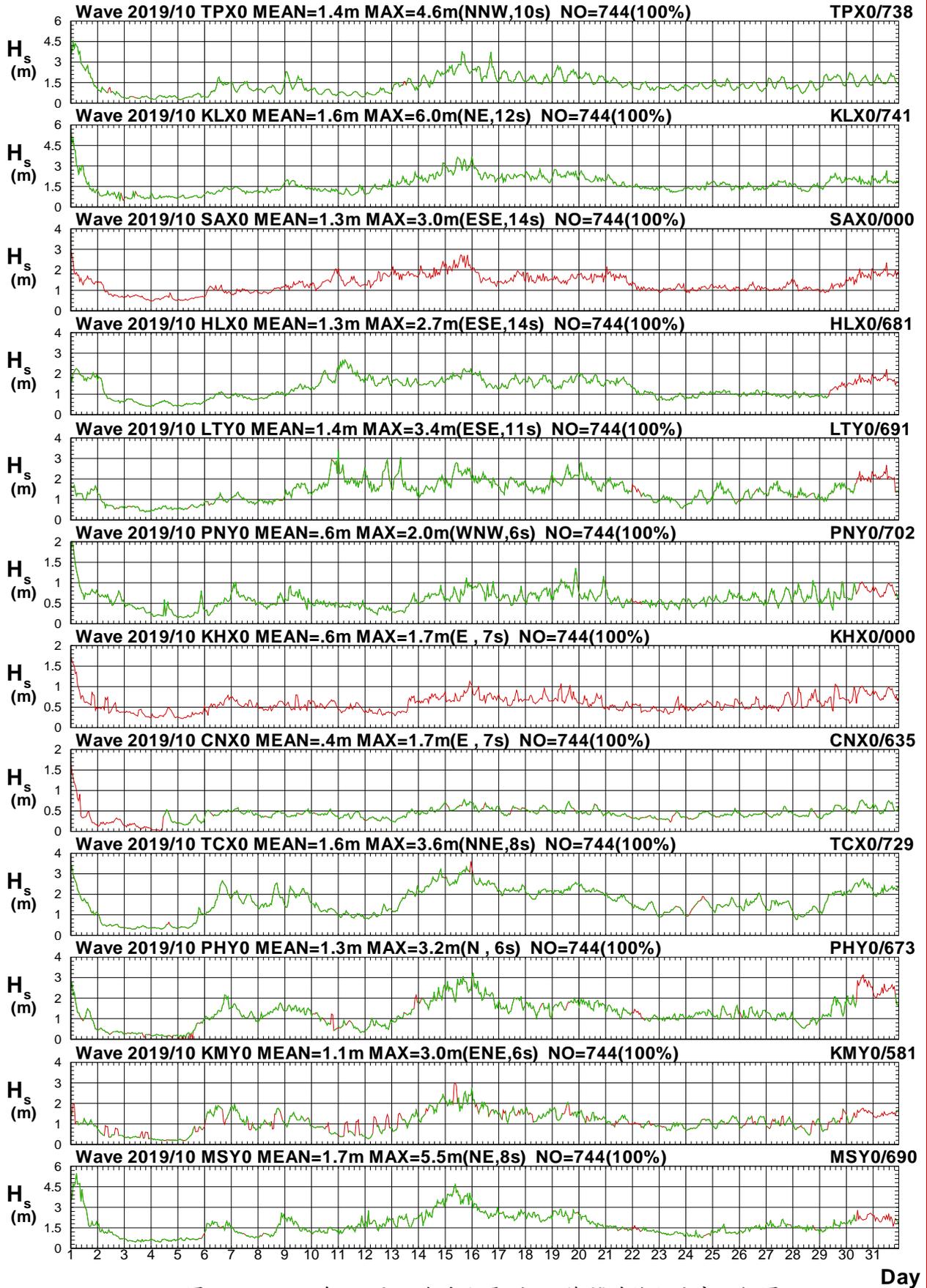


圖3.31 2019年10月12海域主要測站1修補前後之波高比較圖

V19ATPX0.1HA V19ATPX0.1H0 V19AKLX0.1HA V19AKLX0.1H0 V19ASAX0.1HA V19ASAX0.1H0
 V19AHLX0.1HA V19AHLX0.1H0 V19ALTY0.1HA V19ALTY0.1H0 V19APNY0.1HA V19APNY0.1H0

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Twelve Seas Wave T_p at 2019/10

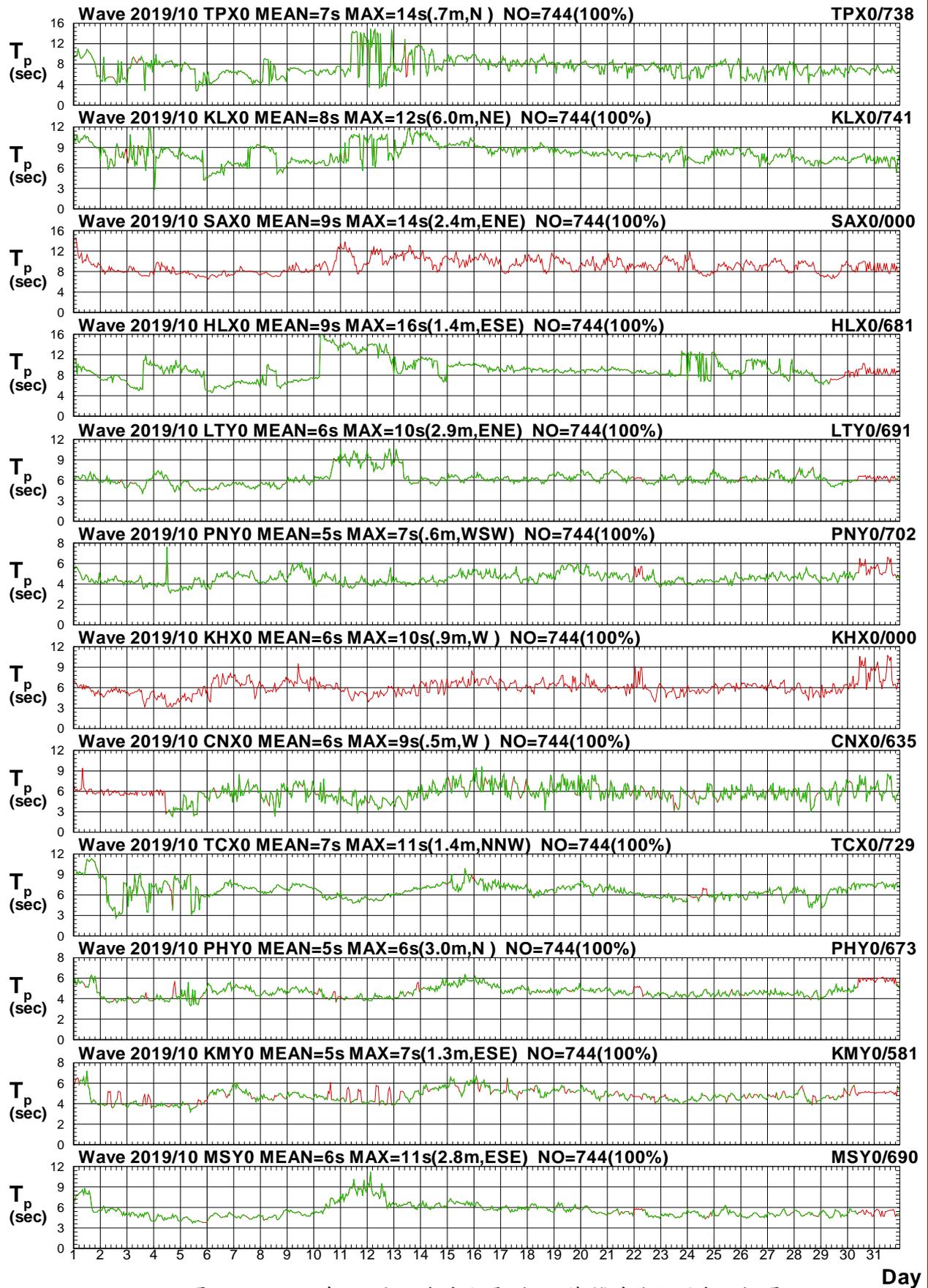


圖3.32 2019年10月12海域主要測站1修補前後之週期比較圖

V19ATPX0.1HA V19ATPX0.1H0 V19AKLX0.1HA V19AKLX0.1H0 V19ASAX0.1HA V19ASAX0.1H0
 V19AHLX0.1HA V19AHLX0.1H0 V19ALTY0.1HA V19ALTY0.1H0 V19APNY0.1HA V19APNY0.1H0

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Twelve Seas Wave Direction at 2019/10

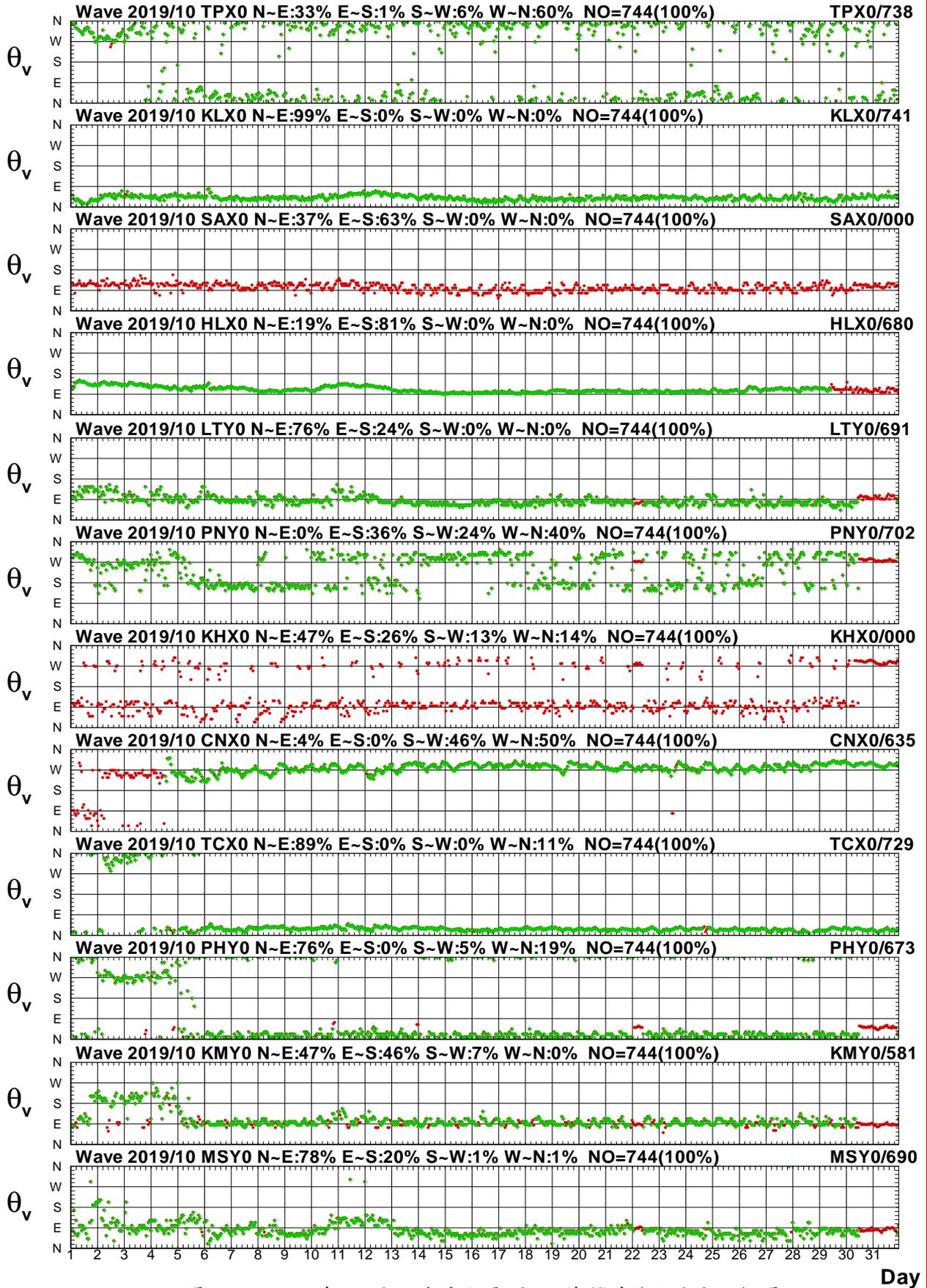


圖3.33 2019年10月12海域主要測站1修補前後之波向比較圖

V19ATPX0.1HA V19ATPX0.1H0 V19AKLX0.1HA V19AKLX0.1H0 V19ASAX0.1HA V19ASAX0.1H0
 V19AHLX0.1HA V19AHLX0.1H0 V19ALTY0.1HA V19ALTY0.1H0 V19APNY0.1HA V19APNY0.1H0

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Twelve Seas Wave H_s at 2019/11

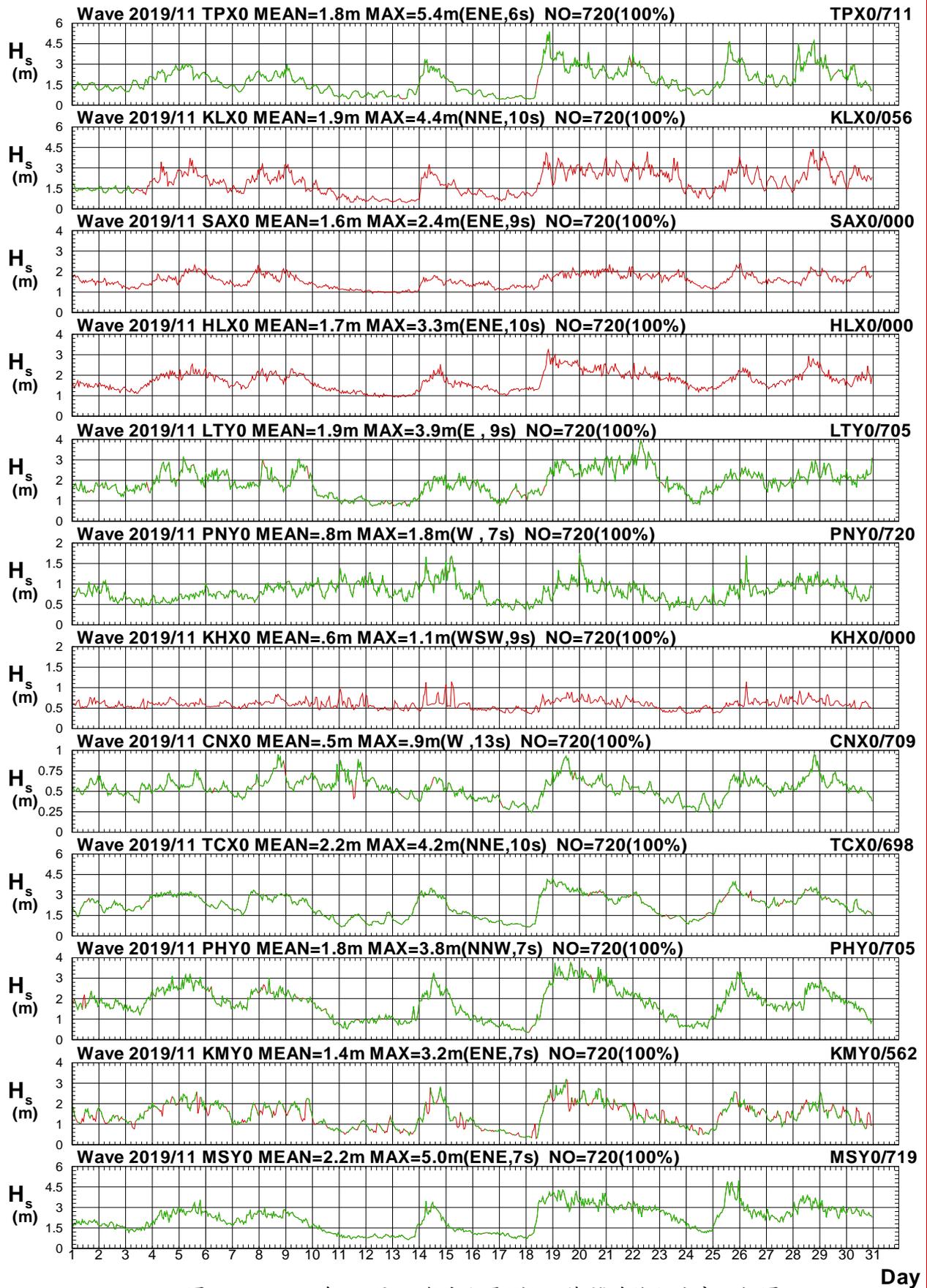


圖3.34 2019年11月12海域主要測站1修補前後之波高比較圖

V19BTPX0.1HA V19BTPX0.1H0 V19BKLX0.1HA V19BKLX0.1H0 V19BSAX0.1HA V19BSAX0.1H0
 V19BHLX0.1HA V19BHLX0.1H0 V19BLTY0.1HA V19BLTY0.1H0 V19BPNY0.1HA V19BPNY0.1H0

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Twelve Seas Wave T_p at 2019/11

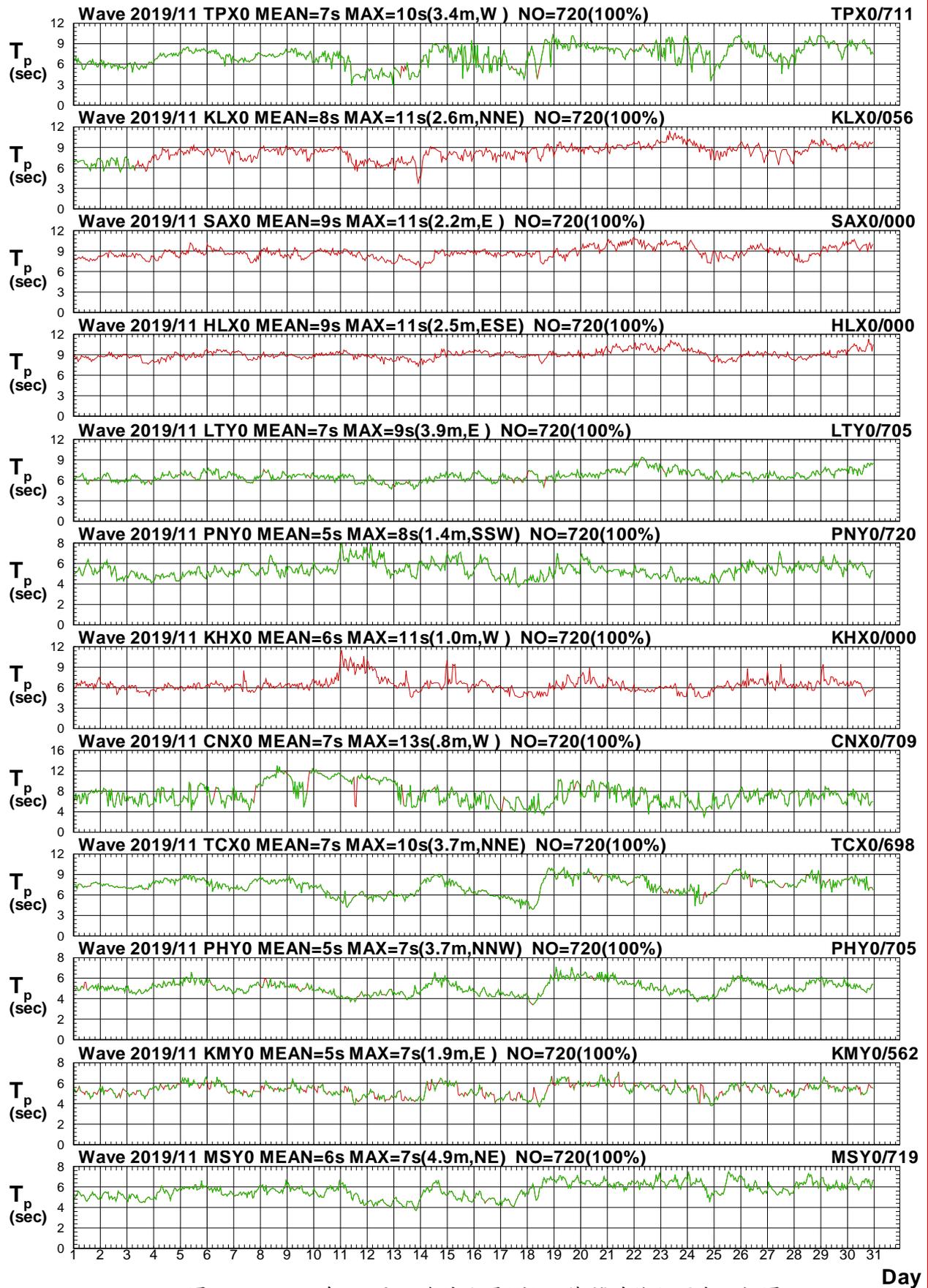


圖3.35 2019年11月12海域主要測站1修補前後之週期比較圖

V19BTPX0.1HA V19BTPX0.1H0 V19BK LX0.1HA V19BK LX0.1H0 V19BSAX0.1HA V19BSAX0.1H0
 V19BHLX0.1HA V19BHLX0.1H0 V19BLTY0.1HA V19BLTY0.1H0 V19BPNY0.1HA V19BPNY0.1H0

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Twelve Seas Wave Direction at 2019/11

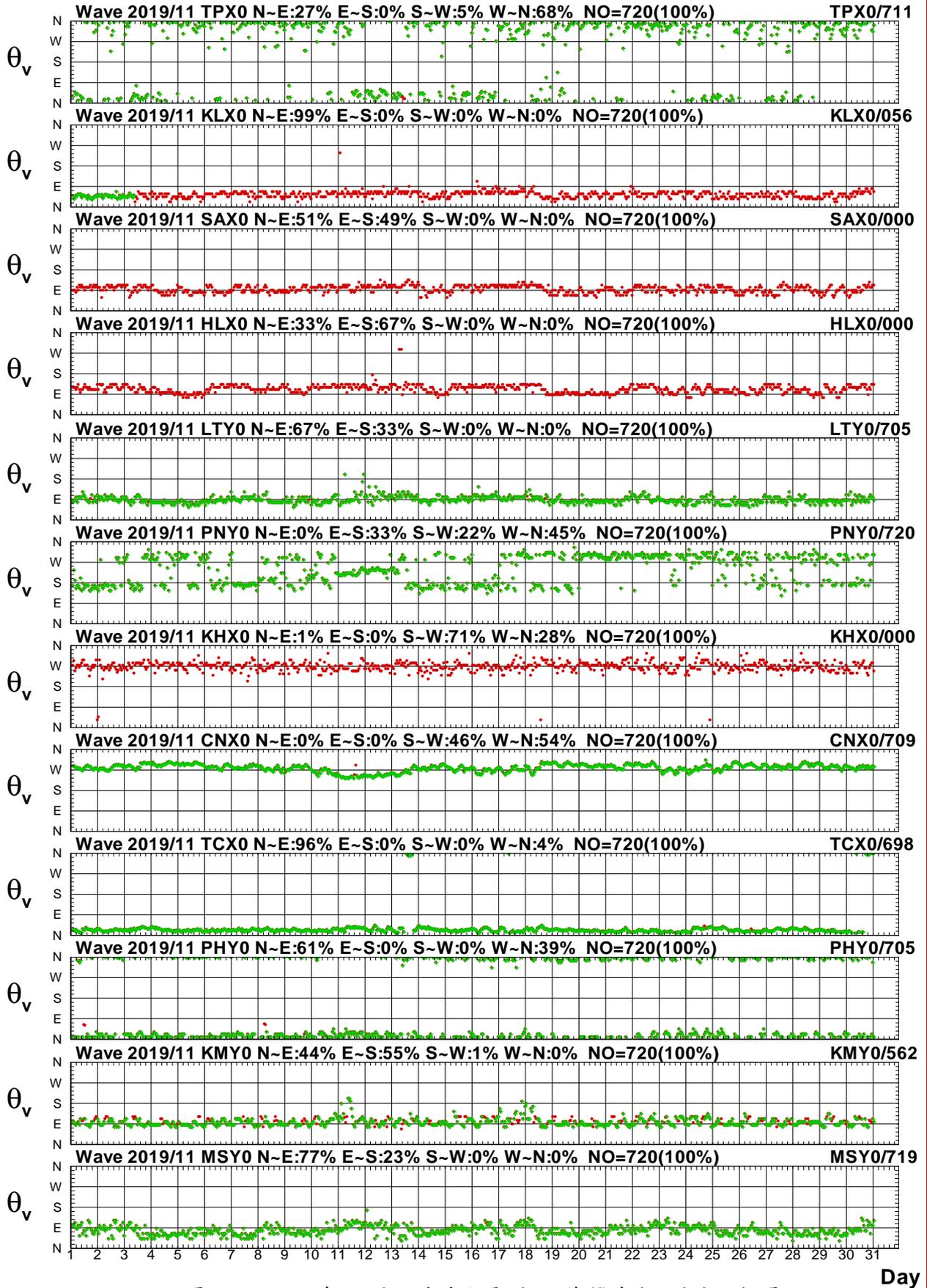


圖3.36 2019年11月12海域主要測站1修補前後之波向比較圖

V19BTPX0.1HA V19BTPX0.1H0 V19BKLX0.1HA V19BKLX0.1H0 V19BSAX0.1HA V19BSAX0.1H0
 V19BHLX0.1HA V19BHLX0.1H0 V19BLTY0.1HA V19BLTY0.1H0 V19BPNY0.1HA V19BPNY0.1H0

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第四章 2019 年 12 海域波浪**主要測站 1** 修補前後波高向量分佈圖

(北苗海域)

(北端海域)

(宜蘭海域)

(花蓮海域)

(臺東海域)

(屏東海域)

(高雄海域)

(嘉南海域)

(中雲海域)

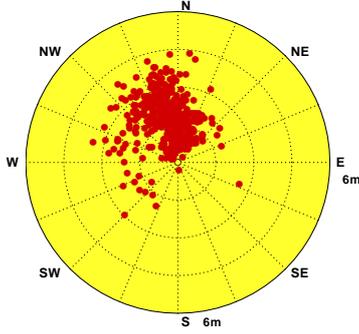
(澎湖海域)

(金門海域)

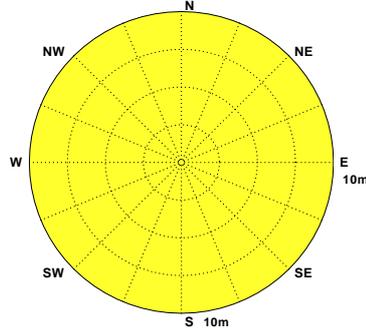
(馬祖海域)

Distribution of H_s Vectors

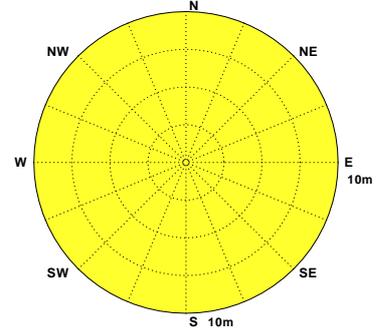
Wave of TPX0 at 2018/12 NO=471(63%)
Hs : MEAN=1.6m MAX=4.1m(N,10s)
N-E:19% E-S:0% S-W:4% W-N:77%



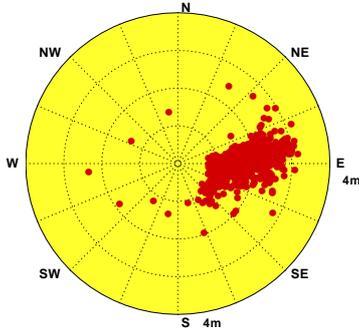
Wave of KLX0 at 2018/12



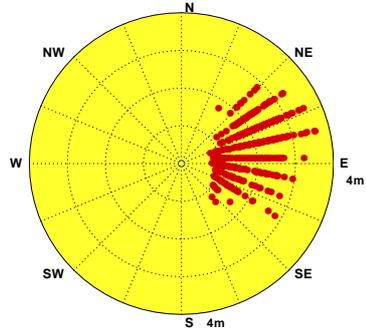
Wave of SAX0 at 2018/12



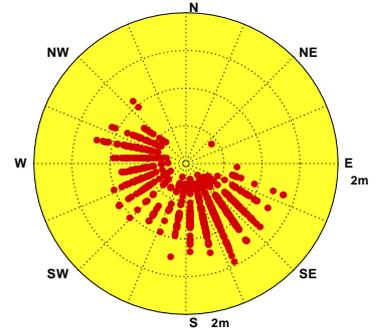
Wave of HLX0 at 2018/12 NO=744(100%)
Hs : MEAN=1.7m MAX=3.0m(E,11s)
N-E:42% E-S:57% S-W:1% W-N:0%



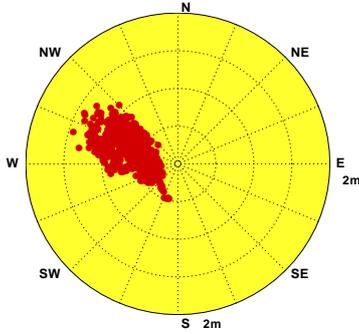
Wave of LTY0 at 2018/12 NO=578(78%)
Hs : MEAN=1.8m MAX=3.5m(ENE,7s)
N-E:61% E-S:39% S-W:0% W-N:0%



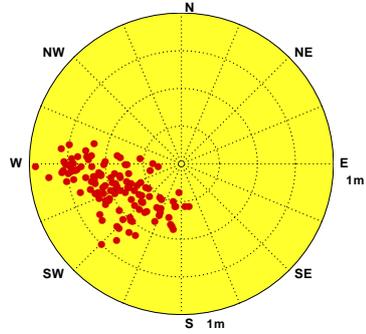
Wave of PNY0 at 2018/12 NO=662(89%)
Hs : MEAN=.8m MAX=1.5m(SSE,6s)
N-E:0% E-S:48% S-W:32% W-N:20%



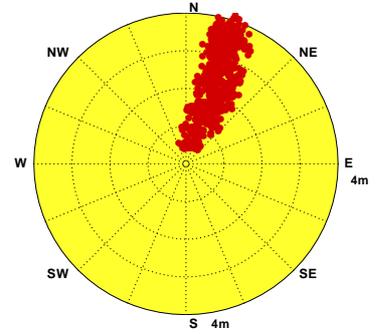
Wave of KHX0 at 2018/12 NO=675(91%)
Hs : MEAN=.7m MAX=1.5m(WNW,11s)
N-E:0% E-S:0% S-W:25% W-N:75%



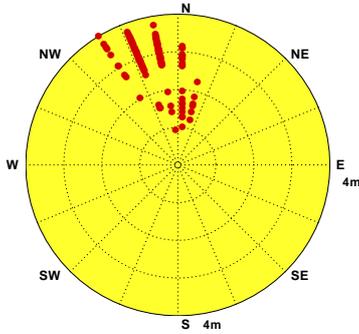
Wave of CNX0 at 2018/12 NO=124(17%)
Hs : MEAN=.6m MAX=2.6m(W,32s)
N-E:0% E-S:1% S-W:92% W-N:7%



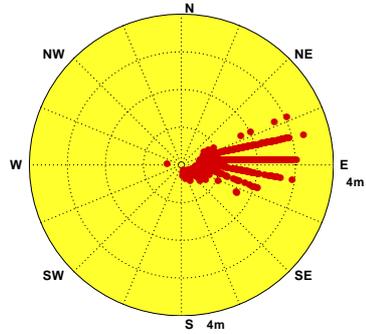
Wave of TCX0 at 2018/12 NO=730(98%)
Hs : MEAN=2.1m MAX=4.0m(NNE,10s)
N-E:95% E-S:0% S-W:0% W-N:5%



Wave of PHY0 at 2018/12 NO=124(17%)
Hs : MEAN=2.7m MAX=3.9m(NW,7s)
N-E:21% E-S:0% S-W:0% W-N:79%



Wave of KMY0 at 2018/12 NO=580(78%)
Hs : MEAN=1.4m MAX=3.2m(ENE,7s)
N-E:22% E-S:76% S-W:2% W-N:0%



Wave of MSY0 at 2018/12 NO=573(77%)
Hs : MEAN=2.3m MAX=5.6m(NE,8s)
N-E:74% E-S:26% S-W:0% W-N:0%

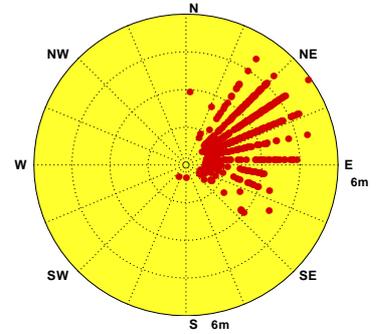


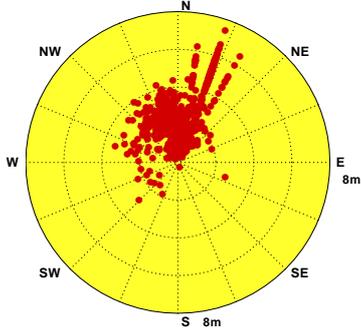
圖4.1a 2018年12月12海域主要測站1修補前波高向量分佈圖

V18CTPX0.1H0 V18CKLX0.1H0 V18CSAX0.1H0 V18CHLX0.1H0 V18CLTY0.1H0 V18CPNY0.1H0
V18CKHX0.1H0 V18CCNX0.1H0 V18CTCX0.1H0 V18CPHY0.1H0 V18CKMY0.1H0 V18CMSY0.1H0

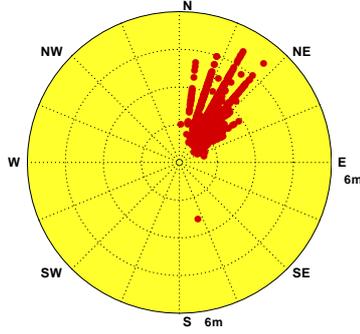
Institute of Harbor & Marine Technology

Distribution of H_s Vectors

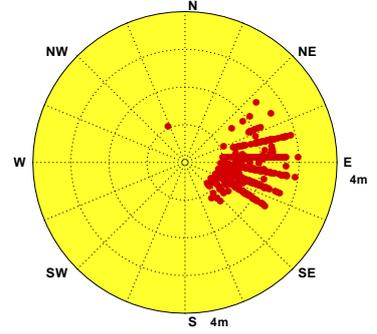
Wave of TPX0 at 2018/12 NO=744(100%)
Hs : MEAN=2.2m MAX=7.1m(NNE,12s)
N-E:47% E-S:0% S-W:2% W-N:51%



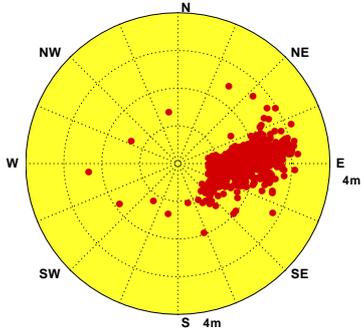
Wave of KLX0 at 2018/12 NO=744(100%)
Hs : MEAN=2.0m MAX=4.9m(NE,11s)
N-E:99% E-S:0% S-W:0% W-N:0%



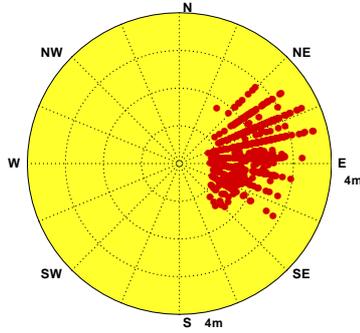
Wave of SAX0 at 2018/12 NO=744(100%)
Hs : MEAN=1.5m MAX=2.9m(E,11s)
N-E:9% E-S:91% S-W:0% W-N:0%



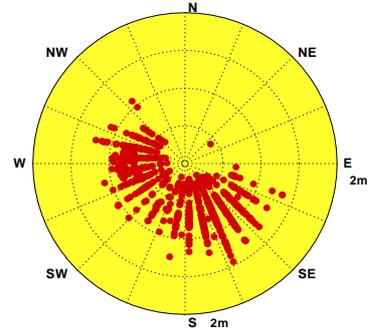
Wave of HLX0 at 2018/12 NO=744(100%)
Hs : MEAN=1.7m MAX=3.0m(E,11s)
N-E:42% E-S:57% S-W:1% W-N:0%



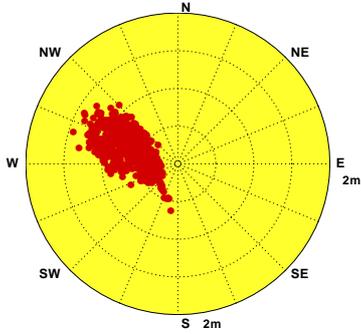
Wave of LTY0 at 2018/12 NO=744(100%)
Hs : MEAN=1.8m MAX=3.5m(ENE,7s)
N-E:57% E-S:43% S-W:0% W-N:0%



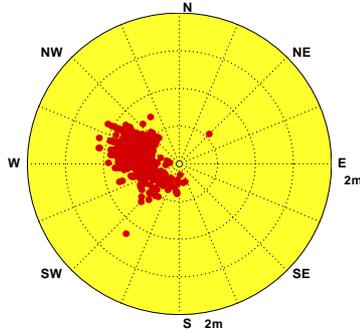
Wave of PNY0 at 2018/12 NO=744(100%)
Hs : MEAN=.8m MAX=1.5m(SSE,6s)
N-E:0% E-S:43% S-W:37% W-N:20%



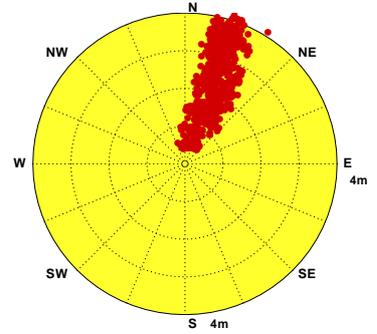
Wave of KHX0 at 2018/12 NO=744(100%)
Hs : MEAN=.7m MAX=1.5m(WNW,11s)
N-E:0% E-S:0% S-W:25% W-N:75%



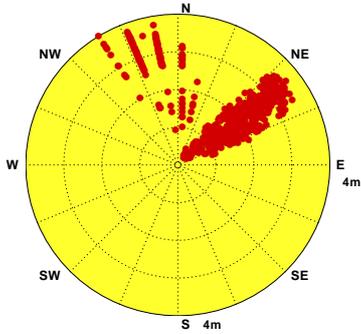
Wave of CNX0 at 2018/12 NO=744(100%)
Hs : MEAN=.7m MAX=2.6m(W,32s)
N-E:0% E-S:0% S-W:27% W-N:73%



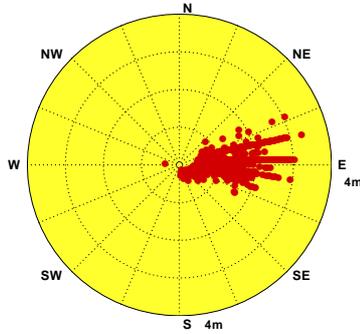
Wave of TCX0 at 2018/12 NO=744(100%)
Hs : MEAN=2.1m MAX=4.0m(NNE,10s)
N-E:95% E-S:0% S-W:0% W-N:5%



Wave of PHY0 at 2018/12 NO=744(100%)
Hs : MEAN=1.8m MAX=3.9m(NW,7s)
N-E:86% E-S:0% S-W:0% W-N:14%



Wave of KMY0 at 2018/12 NO=744(100%)
Hs : MEAN=1.3m MAX=3.2m(ENE,7s)
N-E:22% E-S:77% S-W:1% W-N:0%



Wave of MSY0 at 2018/12 NO=744(100%)
Hs : MEAN=2.3m MAX=5.6m(NE,8s)
N-E:75% E-S:25% S-W:0% W-N:0%

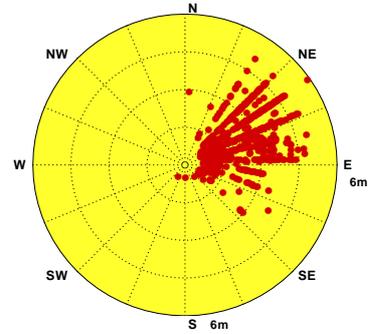


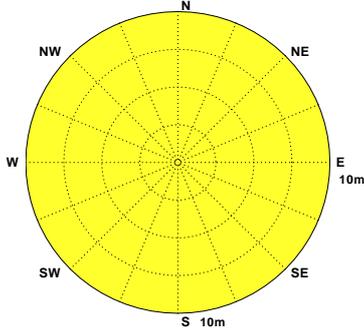
圖4.1b 2018年12月12海域主要測站1修補後波高向量分佈圖

V18CTPX0.1HA V18CKLX0.1HA V18CSAX0.1HA V18CHLX0.1HA V18CLTY0.1HA V18CPNY0.1HA
V18CKHX0.1HA V18CCNX0.1HA V18CTCX0.1HA V18CPHY0.1HA V18CKMY0.1HA V18CMSY0.1HA

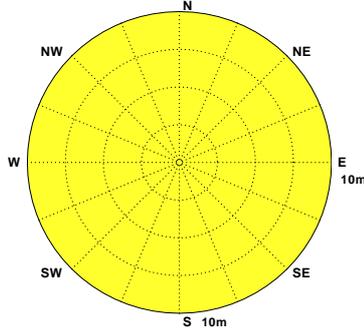
Institute of Harbor & Marine Technology

Distribution of H_s Vectors

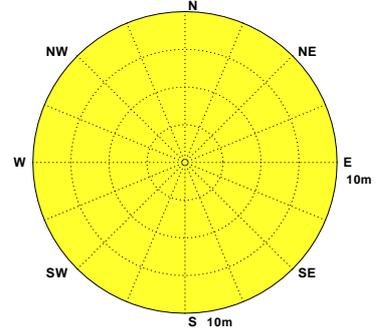
Wave of TPX0 at 2019/01



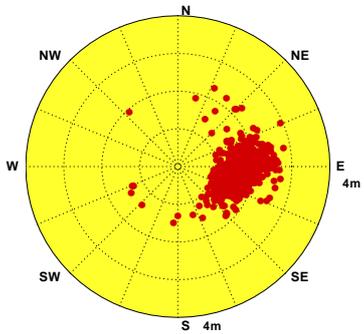
Wave of KLX0 at 2019/01



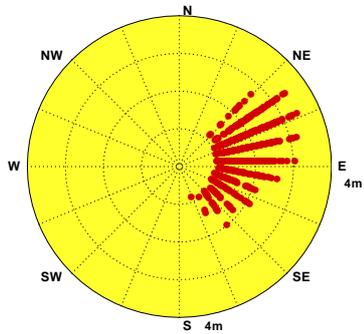
Wave of SAX0 at 2019/01



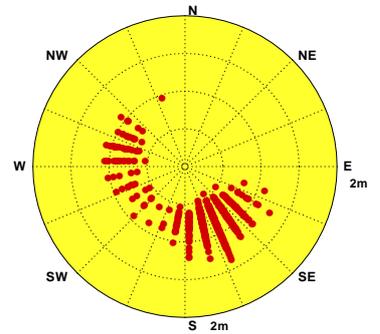
Wave of HLX0 at 2019/01 NO=742(100%)
Hs : MEAN=1.6m MAX=2.8m(ENE,9s)
N-E:29% E-S:70% S-W:1% W-N:0%



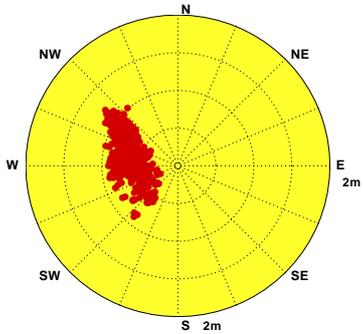
Wave of LTY0 at 2019/01 NO=724(97%)
Hs : MEAN=1.7m MAX=3.2m(ENE,7s)
N-E:57% E-S:43% S-W:0% W-N:0%



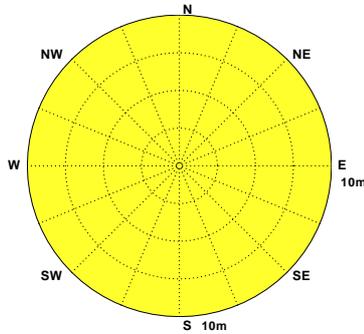
Wave of PNY0 at 2019/01 NO=730(98%)
Hs : MEAN=.9m MAX=1.4m(SSE,7s)
N-E:0% E-S:80% S-W:12% W-N:8%



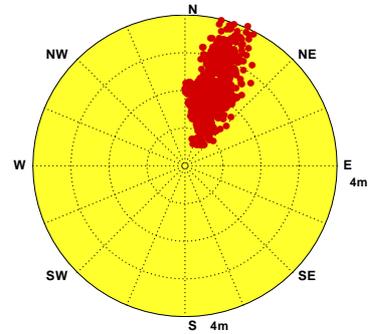
Wave of KHX0 at 2019/01 NO=691(93%)
Hs : MEAN=.7m MAX=1.2m(WNW,5s)
N-E:0% E-S:0% S-W:40% W-N:60%



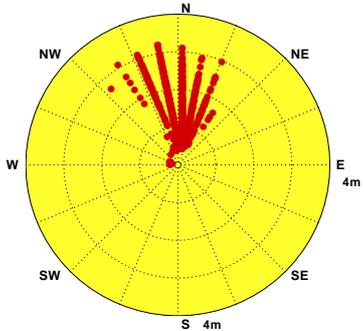
Wave of CNX0 at 2019/01



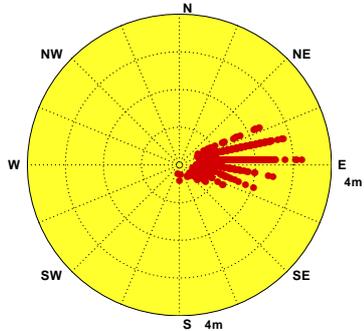
Wave of TCX0 at 2019/01 NO=744(100%)
Hs : MEAN=2.0m MAX=3.9m(NNE,9s)
N-E:98% E-S:0% S-W:0% W-N:2%



Wave of PHY0 at 2019/01 NO=695(93%)
Hs : MEAN=1.5m MAX=3.1m(NNW,6s)
N-E:56% E-S:0% S-W:1% W-N:43%



Wave of KMY0 at 2019/01 NO=675(91%)
Hs : MEAN=1.2m MAX=3.1m(E, 7s)
N-E:41% E-S:59% S-W:0% W-N:0%



Wave of MSY0 at 2019/01 NO=366(49%)
Hs : MEAN=2.0m MAX=4.2m(NE,7s)
N-E:80% E-S:20% S-W:0% W-N:0%

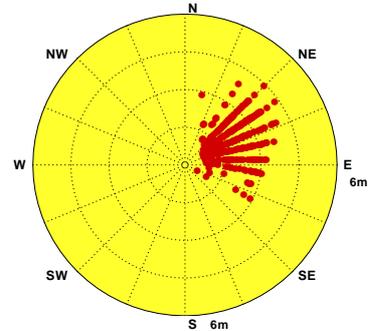


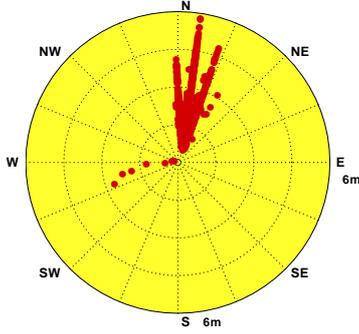
圖4.2a 2019年 1月12海域主要測站1修補前波高向量分佈圖

V191TPX0.1H0 V191KLX0.1H0 V191SAX0.1H0 V191HLX0.1H0 V191LTY0.1H0 V191PNY0.1H0
V191KHX0.1H0 V191CNX0.1H0 V191TCX0.1H0 V191PHY0.1H0 V191KMY0.1H0 V191MSY0.1H0

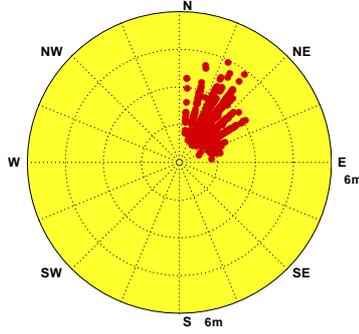
Institute of Harbor & Marine Technology

Distribution of H_s Vectors

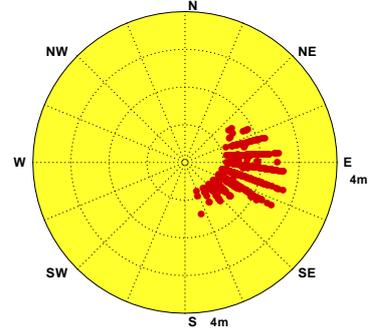
Wave of TPX0 at 2019/01 NO=744(100%)
Hs : MEAN=2.3m MAX=5.6m(N, 7s)
N-E:76% E-S:0% S-W:1% W-N:23%



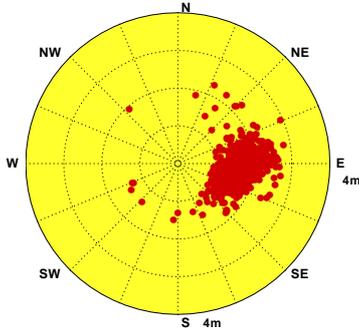
Wave of KLX0 at 2019/01 NO=744(100%)
Hs : MEAN=1.8m MAX=4.2m(NNE,10s)
N-E:99% E-S:0% S-W:0% W-N:0%



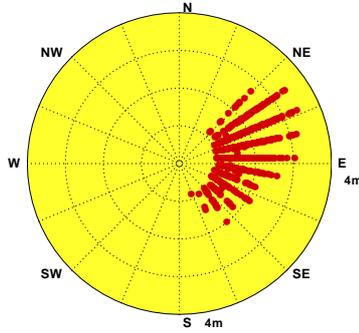
Wave of SAX0 at 2019/01 NO=744(100%)
Hs : MEAN=1.4m MAX=2.6m(ESE,9s)
N-E:19% E-S:81% S-W:0% W-N:0%



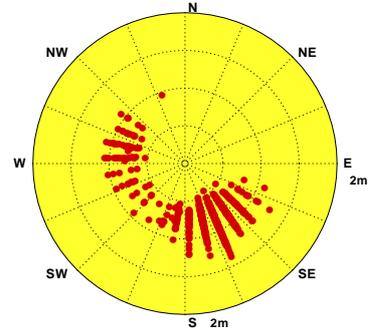
Wave of HLX0 at 2019/01 NO=744(100%)
Hs : MEAN=1.6m MAX=2.8m(ENE,9s)
N-E:29% E-S:70% S-W:1% W-N:0%



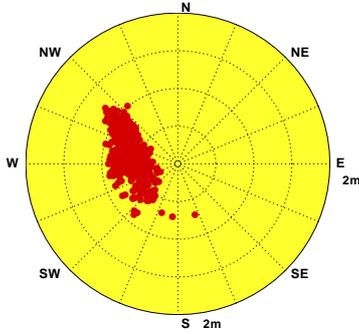
Wave of LTY0 at 2019/01 NO=744(100%)
Hs : MEAN=1.7m MAX=3.2m(ENE,7s)
N-E:56% E-S:44% S-W:0% W-N:0%



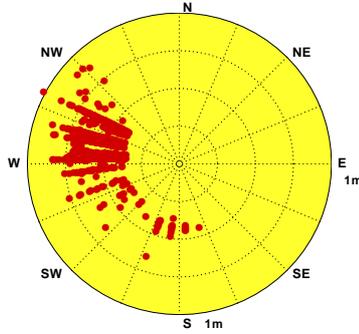
Wave of PNY0 at 2019/01 NO=744(100%)
Hs : MEAN=.9m MAX=1.4m(SSE,7s)
N-E:0% E-S:79% S-W:13% W-N:8%



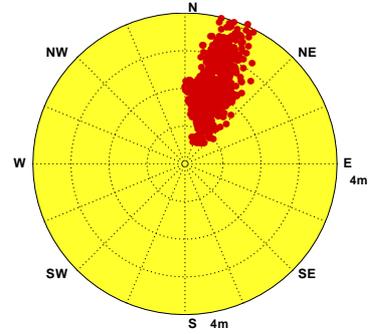
Wave of KHX0 at 2019/01 NO=744(100%)
Hs : MEAN=.7m MAX=1.2m(WNW,5s)
N-E:0% E-S:0% S-W:41% W-N:59%



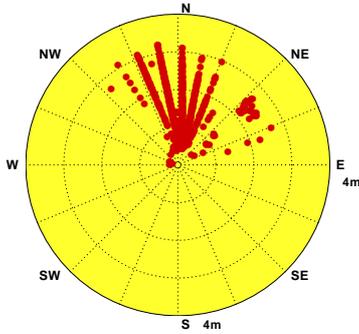
Wave of CNX0 at 2019/01 NO=744(100%)
Hs : MEAN=.6m MAX=1.0m(WNW,7s)
N-E:0% E-S:1% S-W:28% W-N:71%



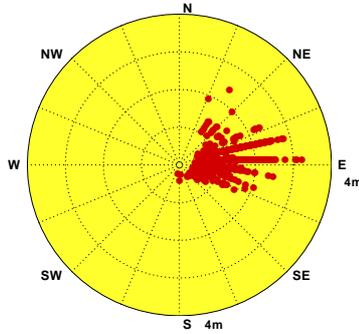
Wave of TCX0 at 2019/01 NO=744(100%)
Hs : MEAN=2.0m MAX=3.9m(NNE,9s)
N-E:98% E-S:0% S-W:0% W-N:2%



Wave of PHY0 at 2019/01 NO=744(100%)
Hs : MEAN=1.5m MAX=3.1m(NNW,6s)
N-E:58% E-S:0% S-W:1% W-N:41%



Wave of KMY0 at 2019/01 NO=744(100%)
Hs : MEAN=1.2m MAX=3.1m(E, 7s)
N-E:42% E-S:58% S-W:0% W-N:0%



Wave of MSY0 at 2019/01 NO=744(100%)
Hs : MEAN=1.7m MAX=4.2m(NE,7s)
N-E:69% E-S:31% S-W:0% W-N:0%

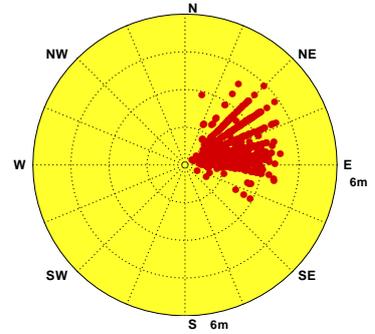


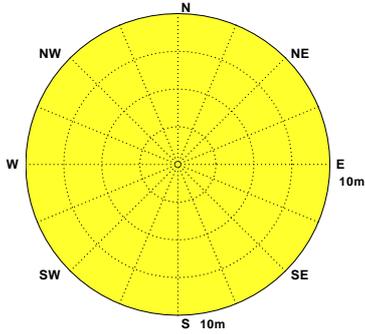
圖4.2b 2019年 1月12海域主要測站1修補後波高向量分佈圖

V191TPX0.1HA V191KLX0.1HA V191SAX0.1HA V191HLX0.1HA V191LTY0.1HA V191PNY0.1HA
V191KHX0.1HA V191CNX0.1HA V191TCX0.1HA V191PHY0.1HA V191KMY0.1HA V191MSY0.1HA

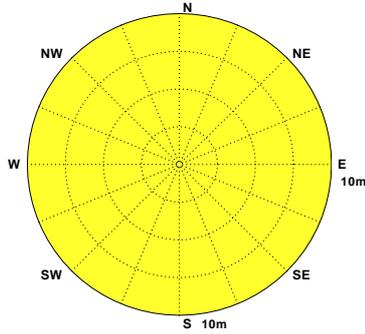
Institute of Harbor & Marine Technology

Distribution of H_s Vectors

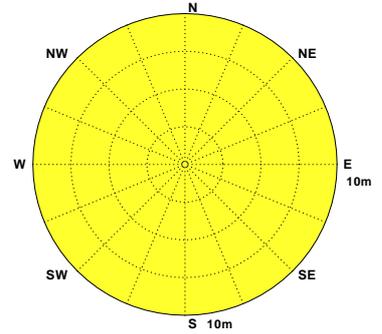
Wave of TPX0 at 2019/02



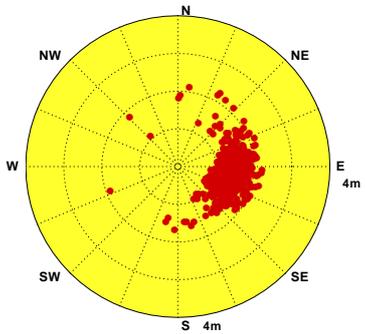
Wave of KLX0 at 2019/02



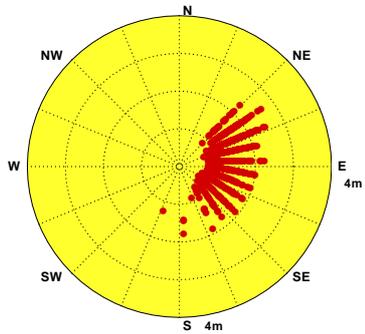
Wave of SAX0 at 2019/02



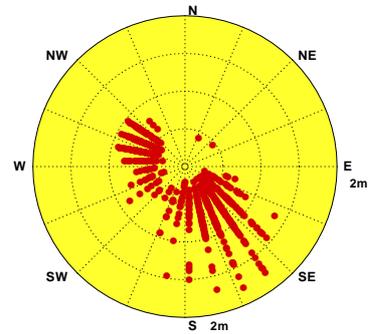
Wave of HLX0 at 2019/02 NO=672(100%)
Hs : MEAN=1.4m MAX=2.1m(E,10s)
N-E:24% E-S:74% S-W:1% W-N:1%



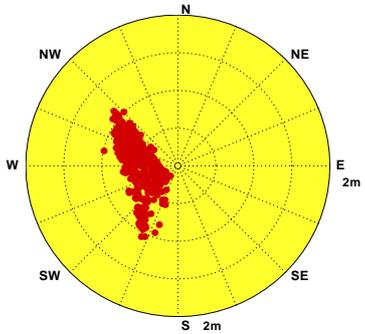
Wave of LTY0 at 2019/02 NO=660(98%)
Hs : MEAN=1.3m MAX=2.5m(NE,7s)
N-E:51% E-S:48% S-W:1% W-N:0%



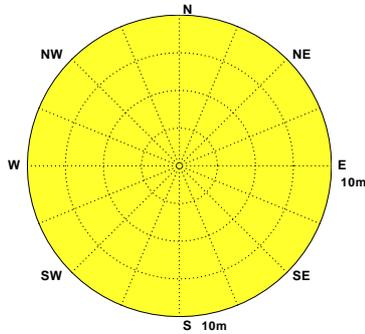
Wave of PNY0 at 2019/02 NO=642(96%)
Hs : MEAN=.7m MAX=1.8m(SSE,6s)
N-E:0% E-S:54% S-W:13% W-N:33%



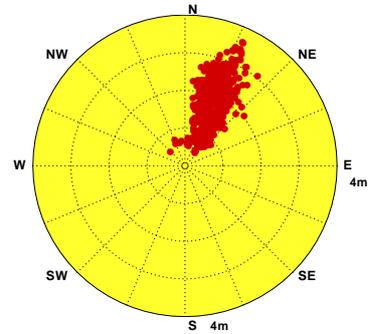
Wave of KHX0 at 2019/02 NO=621(92%)
Hs : MEAN=.7m MAX=1.1m(SSW,7s)
N-E:0% E-S:0% S-W:42% W-N:58%



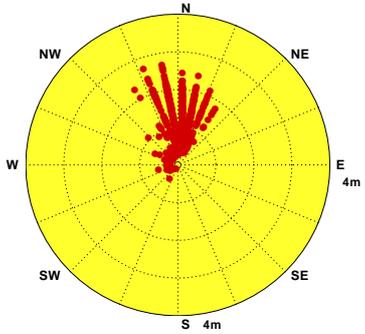
Wave of CNX0 at 2019/02



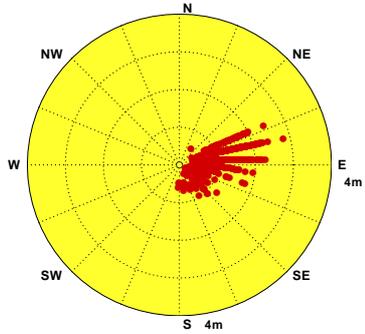
Wave of TCX0 at 2019/02 NO=672(100%)
Hs : MEAN=1.7m MAX=3.4m(NNE,9s)
N-E:98% E-S:0% S-W:0% W-N:2%



Wave of PHY0 at 2019/02 NO=660(98%)
Hs : MEAN=1.1m MAX=2.6m(NNW,6s)
N-E:59% E-S:0% S-W:3% W-N:38%



Wave of KMY0 at 2019/02 NO=652(97%)
Hs : MEAN=1.1m MAX=2.7m(ENE,6s)
N-E:47% E-S:52% S-W:1% W-N:0%



Wave of MSY0 at 2019/02 NO=635(94%)
Hs : MEAN=1.9m MAX=4.2m(NE,7s)
N-E:88% E-S:12% S-W:0% W-N:0%

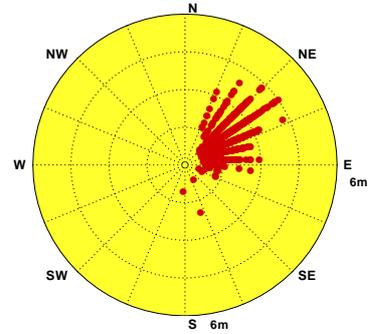


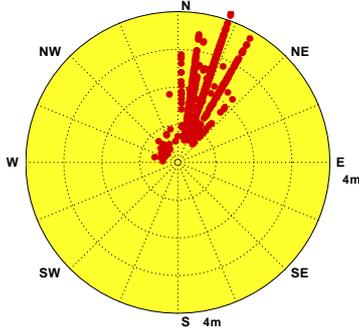
圖4.3a 2019年 2月12海域主要測站1修補前波高向量分佈圖

V192TPX0.1H0 V192KLX0.1H0 V192SAX0.1H0 V192HLX0.1H0 V192LTY0.1H0 V192PNY0.1H0
V192KHX0.1H0 V192CNX0.1H0 V192TCX0.1H0 V192PHY0.1H0 V192KMY0.1H0 V192MSY0.1H0

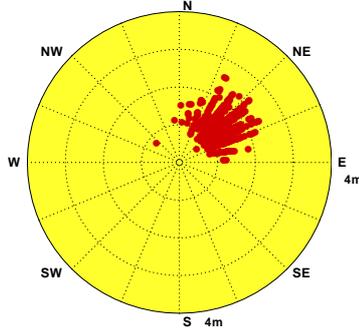
Institute of Harbor & Marine Technology

Distribution of H_s Vectors

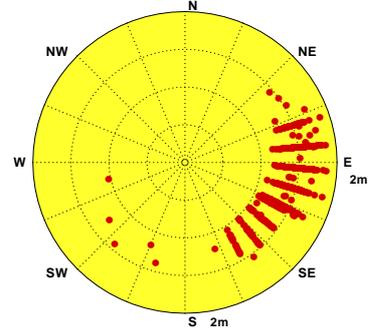
Wave of TPX0 at 2019/02 NO=672(100%)
Hs : MEAN=1.9m MAX=4.1m(N,12s)
N-E:93% E-S:0% S-W:1% W-N:6%



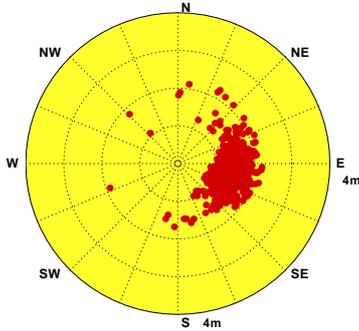
Wave of KLX0 at 2019/02 NO=672(100%)
Hs : MEAN=1.3m MAX=2.9m(NNE,10s)
N-E:99% E-S:0% S-W:0% W-N:1%



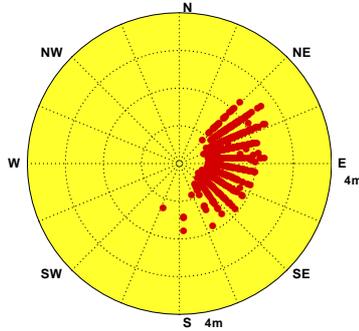
Wave of SAX0 at 2019/02 NO=672(100%)
Hs : MEAN=1.4m MAX=1.8m(ESE,8s)
N-E:22% E-S:77% S-W:1% W-N:0%



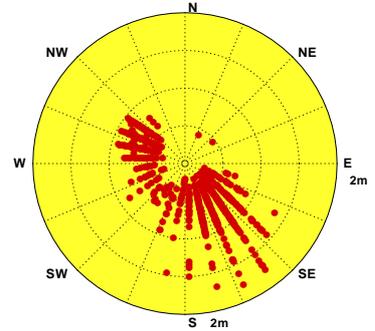
Wave of HLX0 at 2019/02 NO=672(100%)
Hs : MEAN=1.4m MAX=2.1m(E,10s)
N-E:24% E-S:74% S-W:1% W-N:1%



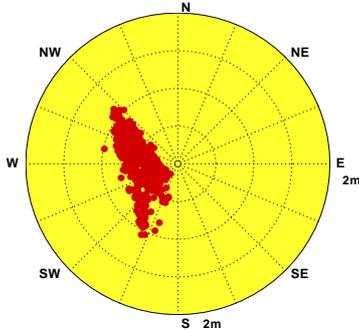
Wave of LTY0 at 2019/02 NO=672(100%)
Hs : MEAN=1.3m MAX=2.5m(NE,7s)
N-E:51% E-S:48% S-W:1% W-N:0%



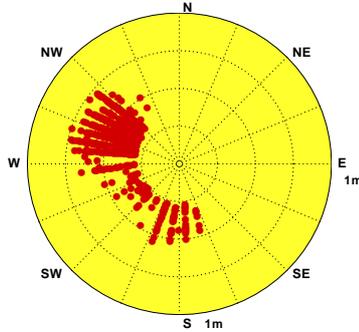
Wave of PNY0 at 2019/02 NO=672(100%)
Hs : MEAN=.7m MAX=1.8m(SSE,6s)
N-E:0% E-S:52% S-W:14% W-N:34%



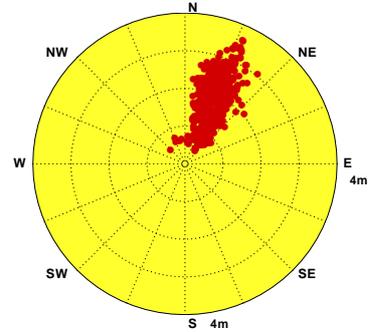
Wave of KHX0 at 2019/02 NO=672(100%)
Hs : MEAN=.7m MAX=1.1m(SSW,7s)
N-E:0% E-S:0% S-W:42% W-N:58%



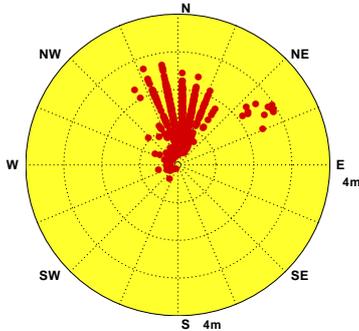
Wave of CNX0 at 2019/02 NO=672(100%)
Hs : MEAN=.5m MAX=.8m(WNW,5s)
N-E:0% E-S:3% S-W:16% W-N:81%



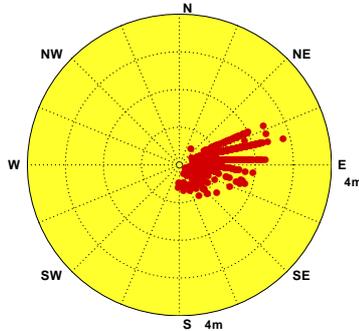
Wave of TCX0 at 2019/02 NO=672(100%)
Hs : MEAN=1.7m MAX=3.4m(NNE,9s)
N-E:98% E-S:0% S-W:0% W-N:2%



Wave of PHY0 at 2019/02 NO=672(100%)
Hs : MEAN=1.1m MAX=2.8m(ENE,6s)
N-E:59% E-S:0% S-W:3% W-N:38%



Wave of KMY0 at 2019/02 NO=672(100%)
Hs : MEAN=1.1m MAX=2.7m(ENE,6s)
N-E:46% E-S:53% S-W:1% W-N:0%



Wave of MSY0 at 2019/02 NO=672(100%)
Hs : MEAN=1.9m MAX=4.2m(NE,7s)
N-E:87% E-S:13% S-W:0% W-N:0%

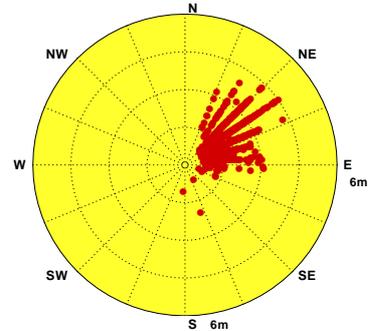


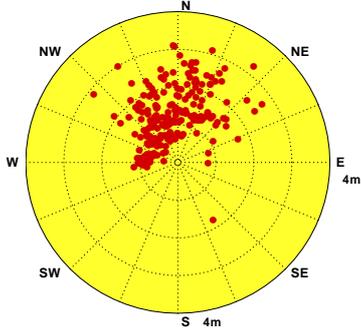
圖4.3b 2019年2月12海域主要測站1修補後波高向量分佈圖

V192TPX0.1HA V192KLX0.1HA V192SAX0.1HA V192HLX0.1HA V192LTY0.1HA V192PNY0.1HA
V192KHX0.1HA V192CNX0.1HA V192TCX0.1HA V192PHY0.1HA V192KMY0.1HA V192MSY0.1HA

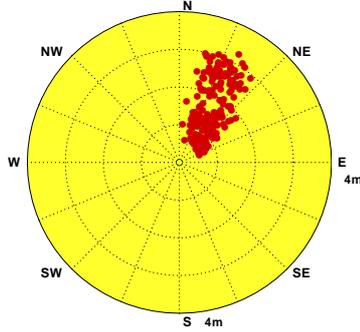
Institute of Harbor & Marine Technology

Distribution of H_s Vectors

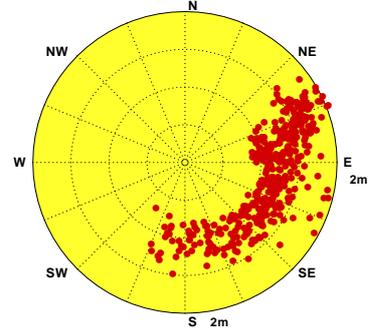
Wave of TPX0 at 2019/03 NO=224(30%)
 Hs : MEAN=1.4m MAX=3.0m(NE,8s)
 N-E:31% E-S:1% S-W:9% W-N:59%



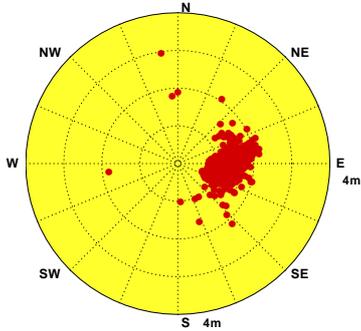
Wave of KLX0 at 2019/03 NO=278(37%)
 Hs : MEAN=1.3m MAX=3.1m(NNE,8s)
 N-E:99% E-S:0% S-W:0% W-N:0%



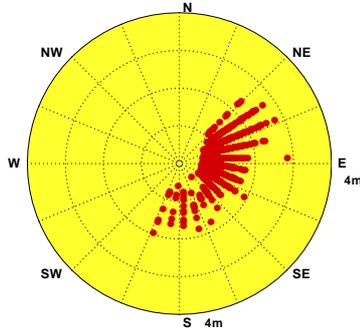
Wave of SAX0 at 2019/03 NO=415(56%)
 Hs : MEAN=1.3m MAX=2.0m(ENE,10s)
 N-E:38% E-S:56% S-W:6% W-N:0%



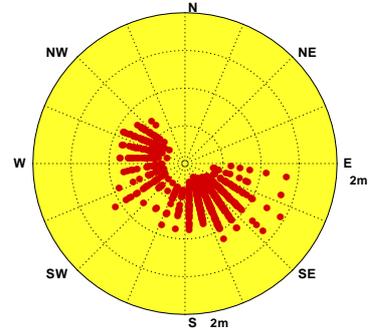
Wave of HLX0 at 2019/03 NO=713(96%)
 Hs : MEAN=1.2m MAX=2.8m(NNW,7s)
 N-E:26% E-S:74% S-W:0% W-N:0%



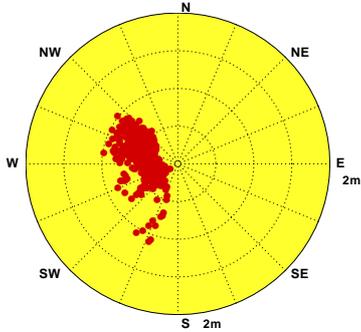
Wave of LTY0 at 2019/03 NO=730(98%)
 Hs : MEAN=1.2m MAX=2.7m(E, 7s)
 N-E:48% E-S:49% S-W:3% W-N:0%



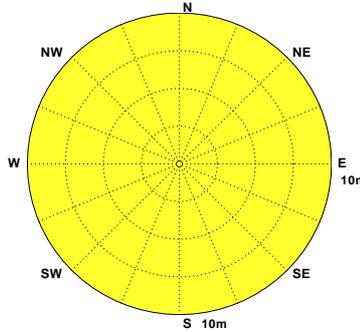
Wave of PNY0 at 2019/03 NO=723(97%)
 Hs : MEAN=.6m MAX=1.4m(ESE,5s)
 N-E:0% E-S:59% S-W:19% W-N:22%



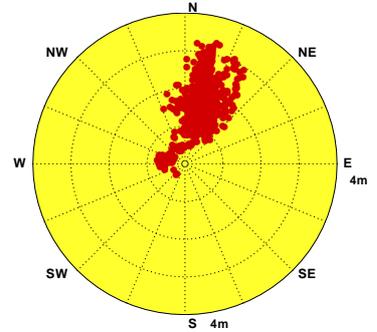
Wave of KHX0 at 2019/03 NO=674(91%)
 Hs : MEAN=.6m MAX=1.2m(SSW,7s)
 N-E:0% E-S:0% S-W:31% W-N:69%



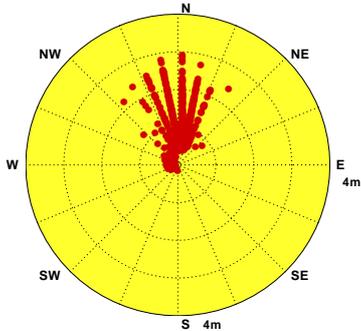
Wave of CNX0 at 2019/03



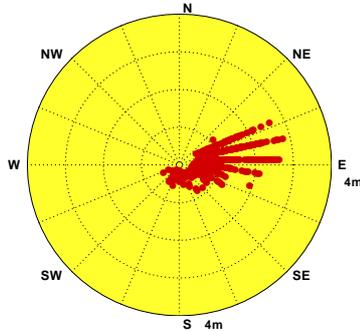
Wave of TCX0 at 2019/03 NO=739(99%)
 Hs : MEAN=1.5m MAX=3.1m(NNE,8s)
 N-E:82% E-S:0% S-W:4% W-N:14%



Wave of PHY0 at 2019/03 NO=734(99%)
 Hs : MEAN=1.0m MAX=2.8m(N, 6s)
 N-E:60% E-S:0% S-W:7% W-N:33%



Wave of KMY0 at 2019/03 NO=636(85%)
 Hs : MEAN=1.0m MAX=2.7m(ENE,6s)
 N-E:41% E-S:53% S-W:6% W-N:0%



Wave of MSY0 at 2019/03 NO=681(92%)
 Hs : MEAN=1.5m MAX=3.5m(NE,7s)
 N-E:70% E-S:25% S-W:5% W-N:0%

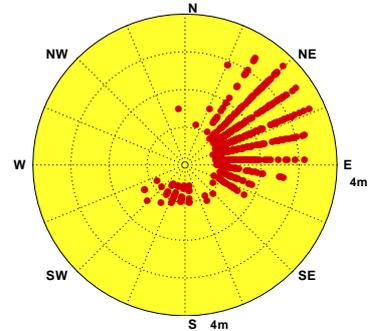


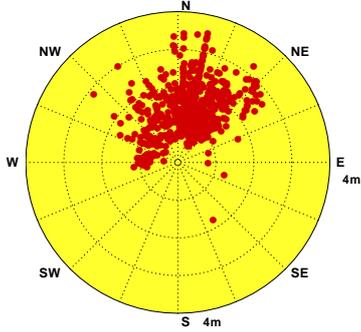
圖4.4a 2019年 3月12海域主要測站1修補前波高向量分佈圖

V193TPX0.1H0 V193KLX0.1H0 V193SAX0.1H0 V193HLX0.1H0 V193LTY0.1H0 V193PNY0.1H0
 V193KHX0.1H0 V193CNX0.1H0 V193TCX0.1H0 V193PHY0.1H0 V193KMY0.1H0 V193MSY0.1H0

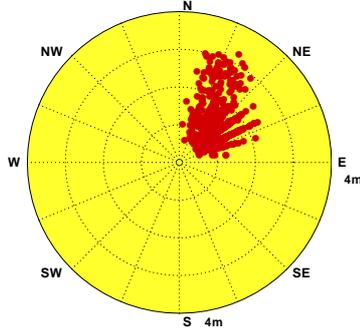
Institute of Harbor & Marine Technology

Distribution of H_s Vectors

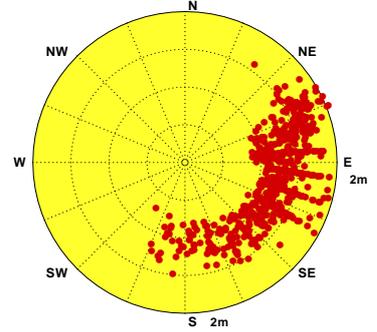
Wave of TPX0 at 2019/03 NO=744(100%)
Hs : MEAN=1.4m MAX=3.3m(NNE,9s)
N-E:70% E-S:0% S-W:3% W-N:27%



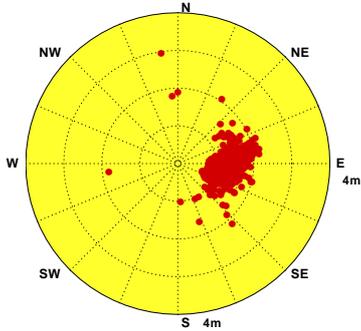
Wave of KLX0 at 2019/03 NO=744(100%)
Hs : MEAN=1.3m MAX=3.1m(NNE,8s)
N-E:99% E-S:0% S-W:0% W-N:0%



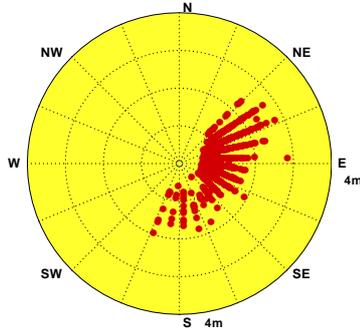
Wave of SAX0 at 2019/03 NO=744(100%)
Hs : MEAN=1.3m MAX=2.0m(ENE,10s)
N-E:28% E-S:69% S-W:3% W-N:0%



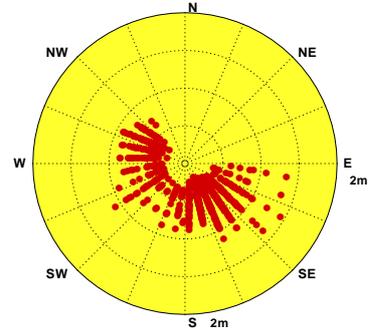
Wave of HLX0 at 2019/03 NO=744(100%)
Hs : MEAN=1.2m MAX=2.8m(NNW,7s)
N-E:25% E-S:75% S-W:0% W-N:0%



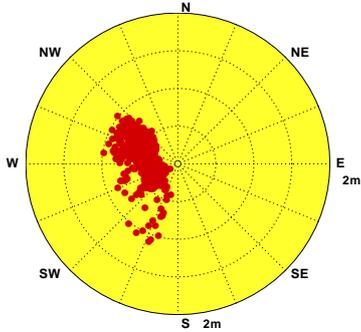
Wave of LTY0 at 2019/03 NO=744(100%)
Hs : MEAN=1.2m MAX=2.7m(E, 7s)
N-E:48% E-S:49% S-W:3% W-N:0%



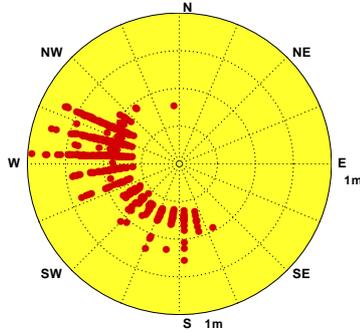
Wave of PNY0 at 2019/03 NO=744(100%)
Hs : MEAN=.6m MAX=1.4m(ESE,5s)
N-E:0% E-S:59% S-W:19% W-N:22%



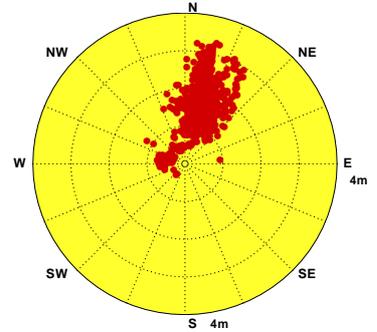
Wave of KHX0 at 2019/03 NO=744(100%)
Hs : MEAN=.6m MAX=1.2m(SSW,7s)
N-E:0% E-S:0% S-W:32% W-N:68%



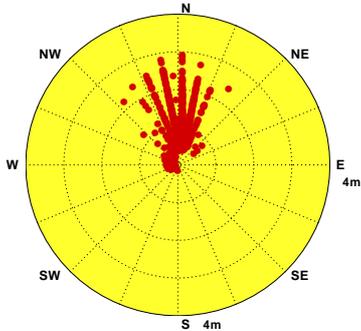
Wave of CNX0 at 2019/03 NO=744(100%)
Hs : MEAN=.5m MAX=1.0m(W, 6s)
N-E:0% E-S:4% S-W:25% W-N:71%



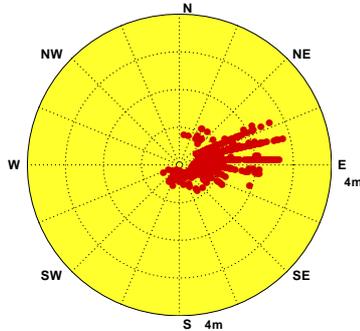
Wave of TCX0 at 2019/03 NO=744(100%)
Hs : MEAN=1.5m MAX=3.1m(NNE,8s)
N-E:82% E-S:0% S-W:4% W-N:14%



Wave of PHY0 at 2019/03 NO=744(100%)
Hs : MEAN=1.0m MAX=2.8m(N, 6s)
N-E:60% E-S:0% S-W:7% W-N:33%



Wave of KMY0 at 2019/03 NO=744(100%)
Hs : MEAN=1.0m MAX=2.7m(ENE,6s)
N-E:43% E-S:52% S-W:5% W-N:0%



Wave of MSY0 at 2019/03 NO=744(100%)
Hs : MEAN=1.5m MAX=3.5m(NE,7s)
N-E:72% E-S:23% S-W:5% W-N:0%

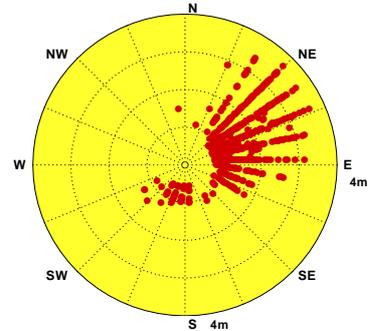


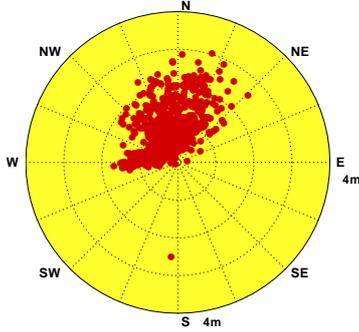
圖4.4b 2019年 3月12海域主要測站1修補後波高向量分佈圖

V193TPX0.1HA V193KLX0.1HA V193SAX0.1HA V193HLX0.1HA V193LTY0.1HA V193PNY0.1HA
V193KHX0.1HA V193CNX0.1HA V193TCX0.1HA V193PHY0.1HA V193KMY0.1HA V193MSY0.1HA

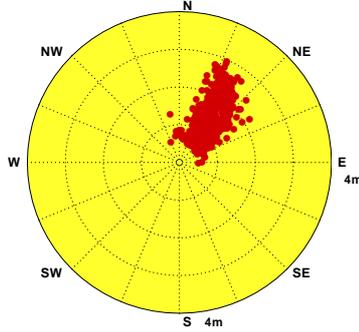
Institute of Harbor & Marine Technology

Distribution of H_s Vectors

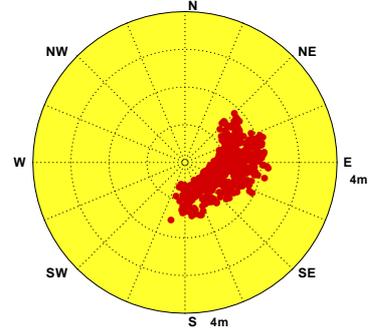
Wave of TPX0 at 2019/04 NO=713(99%)
 Hs : MEAN=1.0m MAX=2.8m(NNE,8s)
 N-E:27% E-S:0% S-W:12% W-N:61%



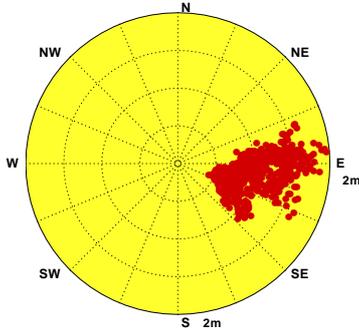
Wave of KLX0 at 2019/04 NO=720(100%)
 Hs : MEAN=1.0m MAX=2.8m(NNE,9s)
 N-E:99% E-S:0% S-W:0% W-N:1%



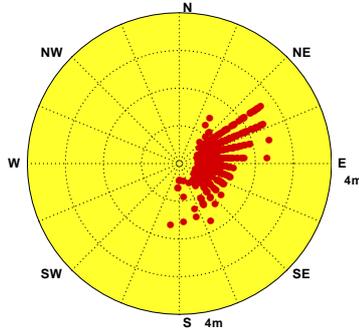
Wave of SAX0 at 2019/04 NO=720(100%)
 Hs : MEAN=1.1m MAX=2.1m(E, 9s)
 N-E:26% E-S:70% S-W:4% W-N:0%



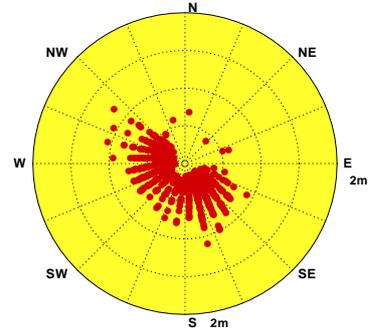
Wave of HLX0 at 2019/04 NO=720(100%)
 Hs : MEAN=.9m MAX=1.9m(E, 9s)
 N-E:16% E-S:84% S-W:0% W-N:0%



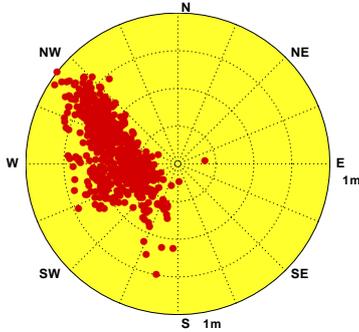
Wave of LTY0 at 2019/04 NO=697(97%)
 Hs : MEAN=.9m MAX=2.4m(NE,7s)
 N-E:42% E-S:57% S-W:1% W-N:0%



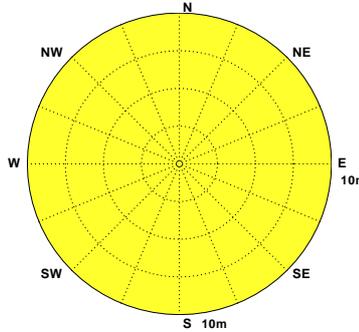
Wave of PNY0 at 2019/04 NO=688(96%)
 Hs : MEAN=.5m MAX=1.2m(WNW,5s)
 N-E:1% E-S:42% S-W:32% W-N:25%



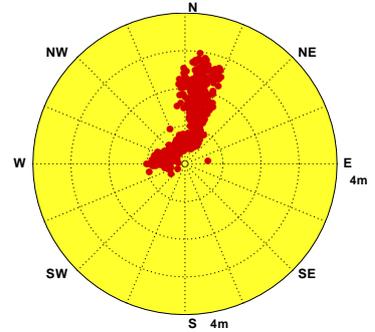
Wave of KHX0 at 2019/04 NO=657(91%)
 Hs : MEAN=.5m MAX=1.0m(NW,5s)
 N-E:0% E-S:0% S-W:48% W-N:52%



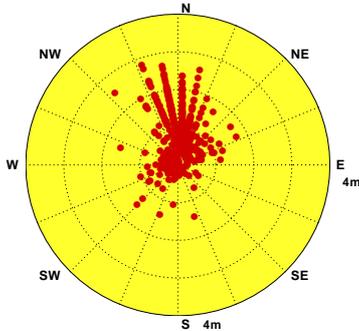
Wave of CNX0 at 2019/04



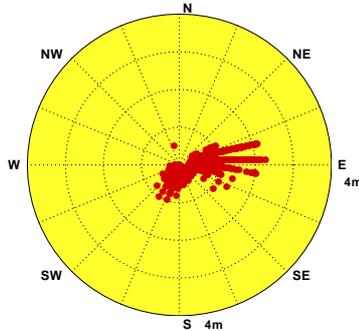
Wave of TCX0 at 2019/04 NO=718(100%)
 Hs : MEAN=1.1m MAX=2.8m(N, 8s)
 N-E:63% E-S:0% S-W:9% W-N:28%



Wave of PHY0 at 2019/04 NO=584(81%)
 Hs : MEAN=.8m MAX=2.7m(NNW,6s)
 N-E:42% E-S:3% S-W:20% W-N:35%



Wave of KMY0 at 2019/04 NO=644(89%)
 Hs : MEAN=.7m MAX=2.2m(E, 6s)
 N-E:18% E-S:58% S-W:24% W-N:0%



Wave of MSY0 at 2019/04 NO=698(97%)
 Hs : MEAN=1.3m MAX=3.9m(ENE,7s)
 N-E:60% E-S:30% S-W:10% W-N:0%

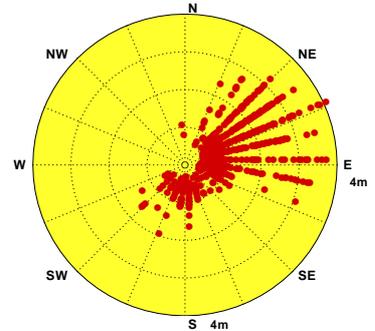


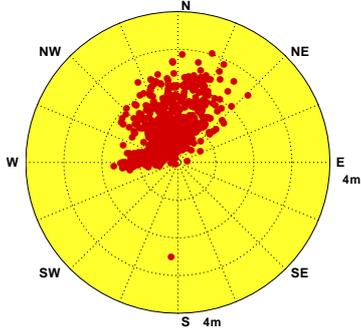
圖4.5a 2019年 4月12海域主要測站1修補前波高向量分佈圖

V194TPX0.1H0 V194KLX0.1H0 V194SAX0.1H0 V194HLX0.1H0 V194LTY0.1H0 V194PNY0.1H0
 V194KHX0.1H0 V194CNX0.1H0 V194TCX0.1H0 V194PHY0.1H0 V194KMY0.1H0 V194MSY0.1H0

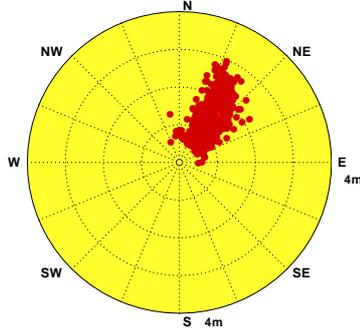
Institute of Harbor & Marine Technology

Distribution of H_s Vectors

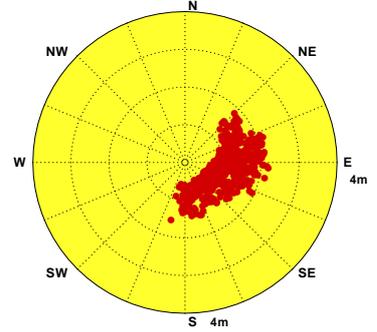
Wave of TPX0 at 2019/04 NO=720(100%)
Hs : MEAN=1.0m MAX=2.8m(NNE,8s)
N-E:27% E-S:0% S-W:12% W-N:61%



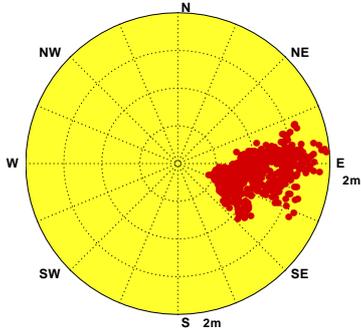
Wave of KLX0 at 2019/04 NO=720(100%)
Hs : MEAN=1.0m MAX=2.8m(NNE,9s)
N-E:99% E-S:0% S-W:0% W-N:1%



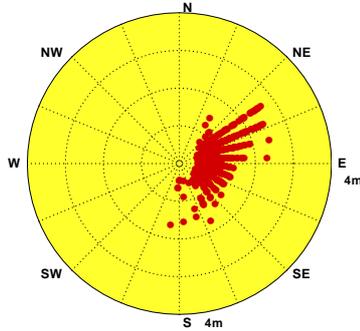
Wave of SAX0 at 2019/04 NO=720(100%)
Hs : MEAN=1.1m MAX=2.1m(E, 9s)
N-E:26% E-S:70% S-W:4% W-N:0%



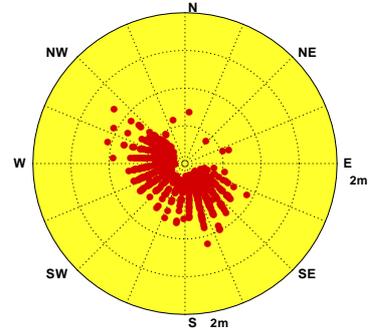
Wave of HLX0 at 2019/04 NO=720(100%)
Hs : MEAN=.9m MAX=1.9m(E, 9s)
N-E:16% E-S:84% S-W:0% W-N:0%



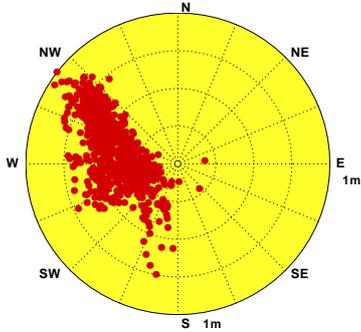
Wave of LTY0 at 2019/04 NO=720(100%)
Hs : MEAN=.9m MAX=2.4m(NE,7s)
N-E:42% E-S:57% S-W:1% W-N:0%



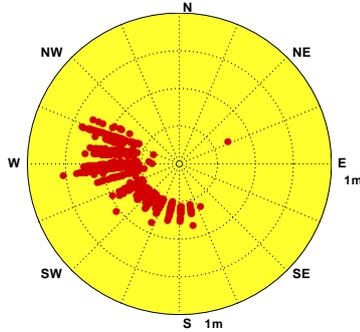
Wave of PNY0 at 2019/04 NO=720(100%)
Hs : MEAN=.5m MAX=1.2m(WNW,5s)
N-E:1% E-S:43% S-W:32% W-N:24%



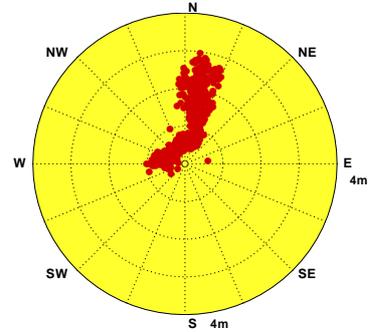
Wave of KHX0 at 2019/04 NO=720(100%)
Hs : MEAN=.5m MAX=1.0m(NW,5s)
N-E:0% E-S:0% S-W:51% W-N:49%



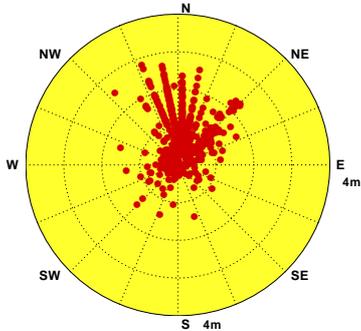
Wave of CNX0 at 2019/04 NO=720(100%)
Hs : MEAN=.4m MAX=.8m(W, 7s)
N-E:0% E-S:1% S-W:70% W-N:29%



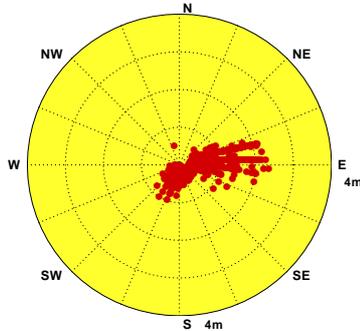
Wave of TCX0 at 2019/04 NO=720(100%)
Hs : MEAN=1.1m MAX=2.8m(N, 8s)
N-E:63% E-S:0% S-W:9% W-N:28%



Wave of PHY0 at 2019/04 NO=720(100%)
Hs : MEAN=.8m MAX=2.7m(NNW,6s)
N-E:47% E-S:4% S-W:17% W-N:32%



Wave of KMY0 at 2019/04 NO=720(100%)
Hs : MEAN=.7m MAX=2.3m(E, 5s)
N-E:20% E-S:58% S-W:22% W-N:0%



Wave of MSY0 at 2019/04 NO=720(100%)
Hs : MEAN=1.3m MAX=3.9m(ENE,7s)
N-E:61% E-S:29% S-W:10% W-N:0%

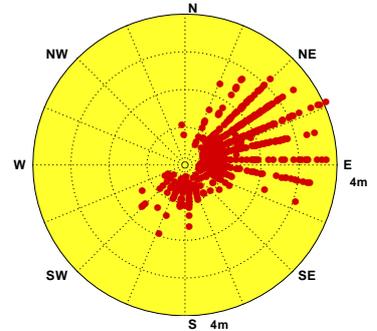


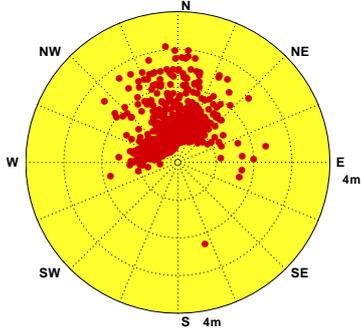
圖4.5b 2019年 4月12海域主要測站1修補後波高向量分佈圖

V194TPX0.1HA V194KLX0.1HA V194SAX0.1HA V194HLX0.1HA V194LTY0.1HA V194PNY0.1HA
V194KHX0.1HA V194CNX0.1HA V194TCX0.1HA V194PHY0.1HA V194KMY0.1HA V194MSY0.1HA

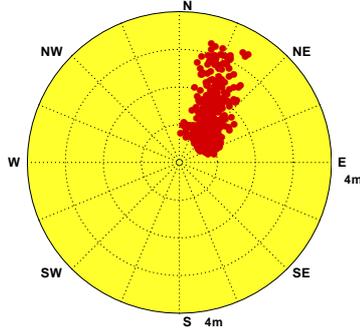
Institute of Harbor & Marine Technology

Distribution of H_s Vectors

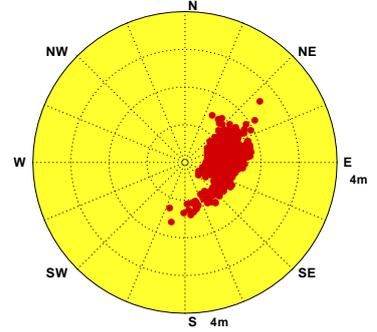
Wave of TPX0 at 2019/05 NO=744(100%)
Hs : MEAN=.9m MAX=3.0m(N, 8s)
N-E:31% E-S:1% S-W:5% W-N:63%



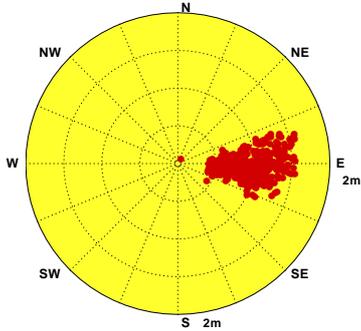
Wave of KLX0 at 2019/05 NO=733(99%)
Hs : MEAN=1.1m MAX=3.2m(NNE,8s)
N-E:99% E-S:0% S-W:0% W-N:0%



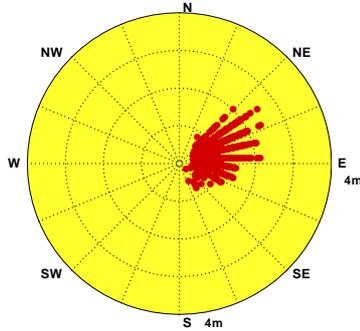
Wave of SAX0 at 2019/05 NO=718(97%)
Hs : MEAN=1.0m MAX=2.4m(NE,9s)
N-E:43% E-S:56% S-W:1% W-N:0%



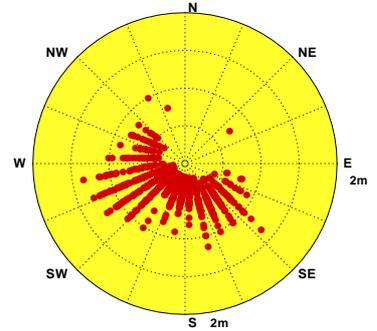
Wave of HLX0 at 2019/05 NO=601(81%)
Hs : MEAN=.9m MAX=1.5m(ENE,6s)
N-E:15% E-S:85% S-W:0% W-N:0%



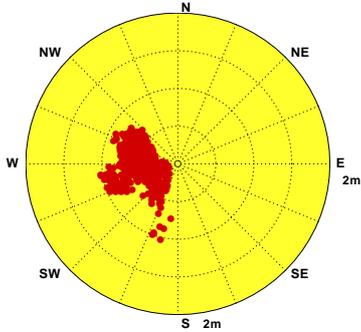
Wave of LTY0 at 2019/05 NO=719(97%)
Hs : MEAN=1.0m MAX=2.3m(NE,6s)
N-E:60% E-S:40% S-W:0% W-N:0%



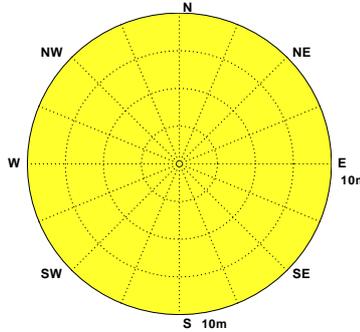
Wave of PNY0 at 2019/05 NO=717(96%)
Hs : MEAN=.6m MAX=1.4m(W,5s)
N-E:0% E-S:25% S-W:63% W-N:12%



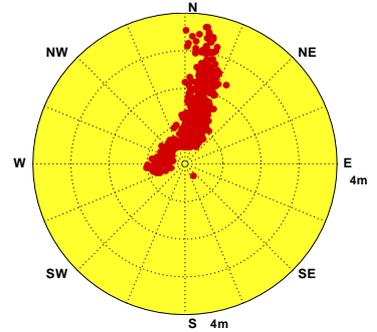
Wave of KHX0 at 2019/05 NO=683(92%)
Hs : MEAN=.6m MAX=1.1m(SSW,5s)
N-E:0% E-S:0% S-W:66% W-N:34%



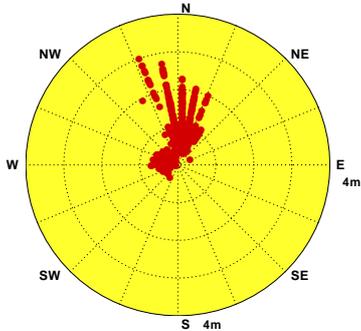
Wave of CNX0 at 2019/05



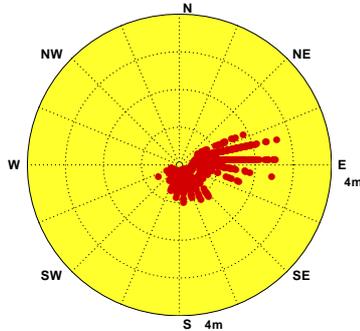
Wave of TCX0 at 2019/05 NO=736(99%)
Hs : MEAN=1.1m MAX=3.5m(N, 9s)
N-E:70% E-S:0% S-W:5% W-N:25%



Wave of PHY0 at 2019/05 NO=539(72%)
Hs : MEAN=.8m MAX=2.9m(NNW,6s)
N-E:46% E-S:0% S-W:17% W-N:37%



Wave of KMY0 at 2019/05 NO=674(91%)
Hs : MEAN=.9m MAX=2.5m(ENE,6s)
N-E:32% E-S:52% S-W:16% W-N:0%



Wave of MSY0 at 2019/05 NO=723(97%)
Hs : MEAN=1.3m MAX=4.4m(NE,7s)
N-E:61% E-S:38% S-W:1% W-N:0%

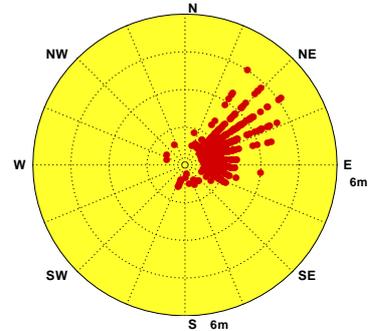


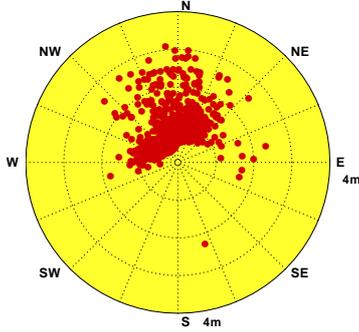
圖4.6a 2019年 5月12海域主要測站1修補前波高向量分佈圖

V195TPX0.1H0 V195KLX0.1H0 V195SAX0.1H0 V195HLX0.1H0 V195LTY0.1H0 V195PNY0.1H0
V195KHX0.1H0 V195CNX0.1H0 V195TCX0.1H0 V195PHY0.1H0 V195KMY0.1H0 V195MSY0.1H0

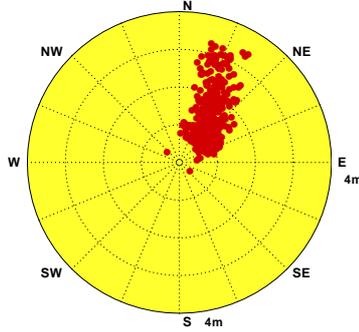
Institute of Harbor & Marine Technology

Distribution of H_s Vectors

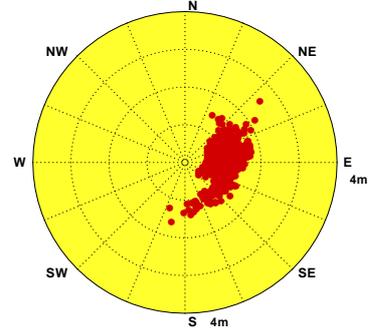
Wave of TPX0 at 2019/05 NO=744(100%)
 Hs : MEAN=.9m MAX=3.0m(N, 8s)
 N-E:31% E-S:1% S-W:5% W-N:63%



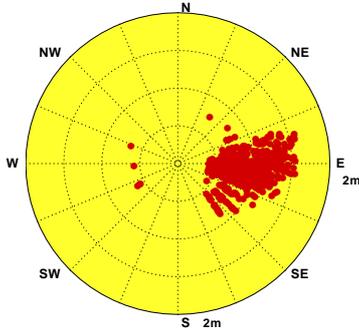
Wave of KLX0 at 2019/05 NO=744(100%)
 Hs : MEAN=1.0m MAX=3.2m(NNE,8s)
 N-E:99% E-S:1% S-W:0% W-N:0%



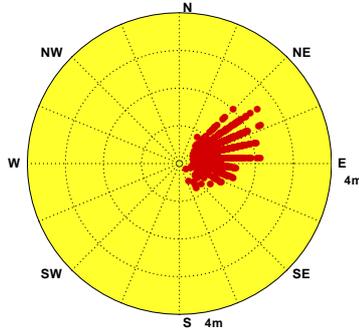
Wave of SAX0 at 2019/05 NO=744(100%)
 Hs : MEAN=1.0m MAX=2.4m(NE,9s)
 N-E:41% E-S:58% S-W:1% W-N:0%



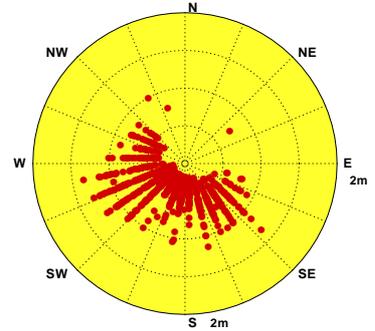
Wave of HLX0 at 2019/05 NO=744(100%)
 Hs : MEAN=.8m MAX=1.5m(ENE,6s)
 N-E:16% E-S:83% S-W:1% W-N:0%



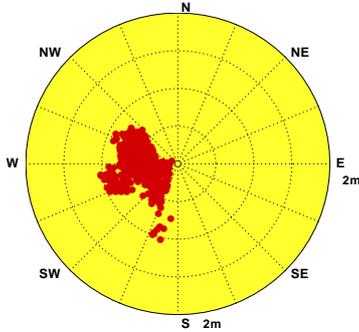
Wave of LTY0 at 2019/05 NO=744(100%)
 Hs : MEAN=1.0m MAX=2.3m(NE,6s)
 N-E:60% E-S:40% S-W:0% W-N:0%



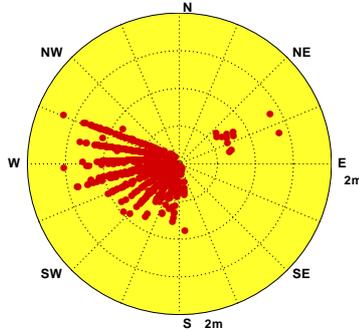
Wave of PNY0 at 2019/05 NO=744(100%)
 Hs : MEAN=.6m MAX=1.4m(WSW,5s)
 N-E:0% E-S:25% S-W:64% W-N:11%



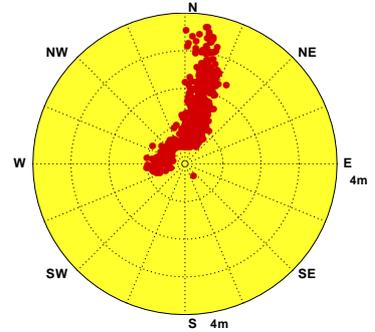
Wave of KHX0 at 2019/05 NO=744(100%)
 Hs : MEAN=.6m MAX=1.1m(SSW,5s)
 N-E:0% E-S:0% S-W:67% W-N:33%



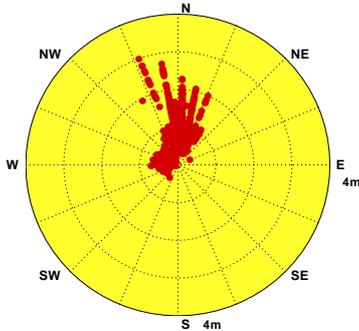
Wave of CNX0 at 2019/05 NO=744(100%)
 Hs : MEAN=.6m MAX=1.7m(WNW,7s)
 N-E:2% E-S:1% S-W:72% W-N:25%



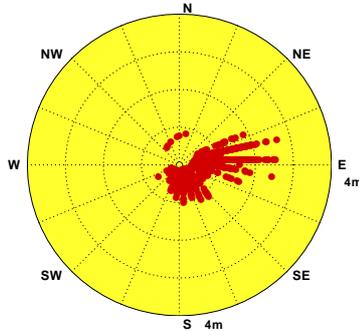
Wave of TCX0 at 2019/05 NO=744(100%)
 Hs : MEAN=1.1m MAX=3.5m(N, 9s)
 N-E:69% E-S:0% S-W:5% W-N:26%



Wave of PHY0 at 2019/05 NO=744(100%)
 Hs : MEAN=.8m MAX=2.9m(NNW,6s)
 N-E:35% E-S:0% S-W:13% W-N:52%



Wave of KMY0 at 2019/05 NO=744(100%)
 Hs : MEAN=.9m MAX=2.5m(ENE,6s)
 N-E:32% E-S:52% S-W:15% W-N:1%



Wave of MSY0 at 2019/05 NO=744(100%)
 Hs : MEAN=1.3m MAX=4.4m(NE,7s)
 N-E:62% E-S:37% S-W:1% W-N:0%

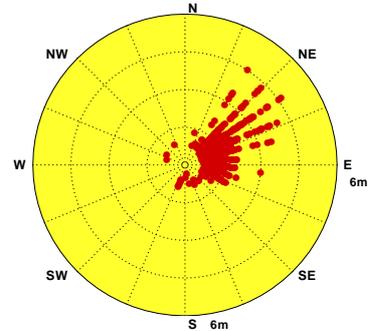


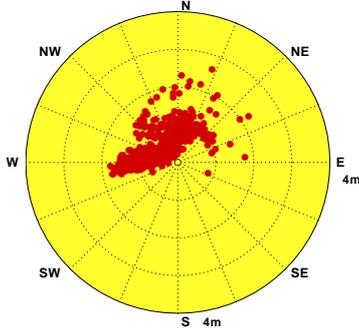
圖4.6b 2019年 5月12海域主要測站1修補後波高向量分佈圖

V195TPX0.1HA V195KLX0.1HA V195SAX0.1HA V195HLX0.1HA V195LTY0.1HA V195PNY0.1HA
 V195KHX0.1HA V195CNX0.1HA V195TCX0.1HA V195PHY0.1HA V195KMY0.1HA V195MSY0.1HA

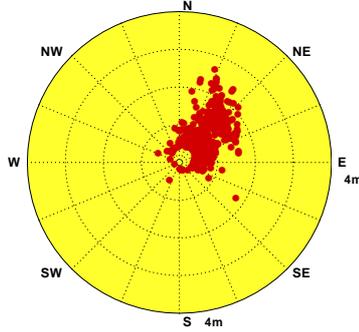
Institute of Harbor & Marine Technology

Distribution of H_s Vectors

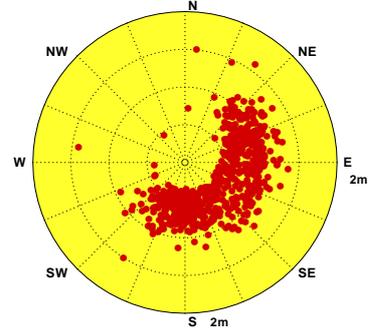
Wave of TPX0 at 2019/06 NO=672(93%)
Hs : MEAN=.9m MAX=2.4m(NNE,8s)
N-E:15% E-S:0% S-W:32% W-N:53%



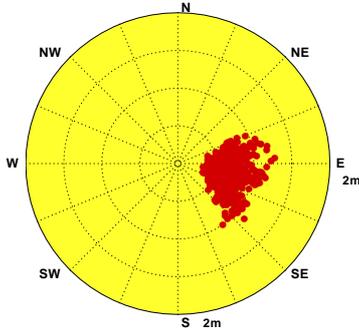
Wave of KLX0 at 2019/06 NO=633(88%)
Hs : MEAN=.8m MAX=2.5m(NNE,7s)
N-E:87% E-S:7% S-W:1% W-N:5%



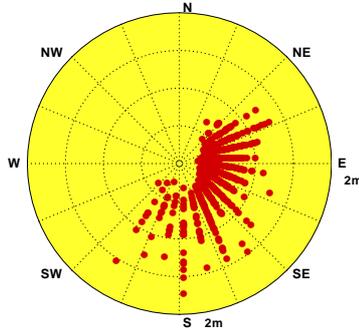
Wave of SAX0 at 2019/06 NO=695(97%)
Hs : MEAN=.8m MAX=1.6m(SSW,8s)
N-E:29% E-S:47% S-W:24% W-N:0%



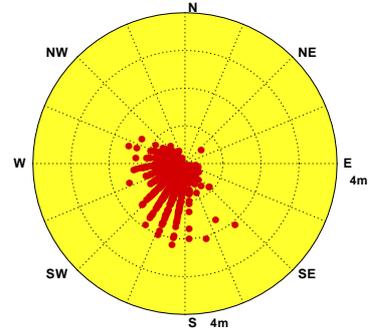
Wave of HLX0 at 2019/06 NO=720(100%)
Hs : MEAN=.6m MAX=1.2m(E, 8s)
N-E:14% E-S:86% S-W:0% W-N:0%



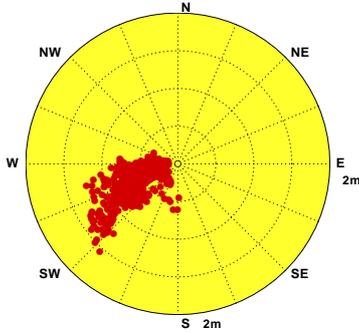
Wave of LTY0 at 2019/06 NO=636(88%)
Hs : MEAN=.6m MAX=1.8m(S, 6s)
N-E:24% E-S:68% S-W:8% W-N:0%



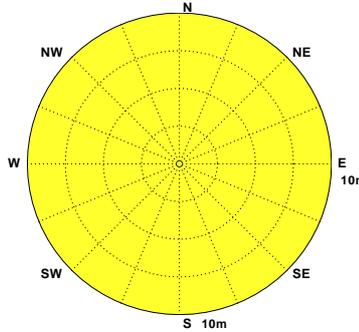
Wave of PNY0 at 2019/06 NO=647(90%)
Hs : MEAN=.8m MAX=2.3m(S, 7s)
N-E:0% E-S:6% S-W:77% W-N:17%



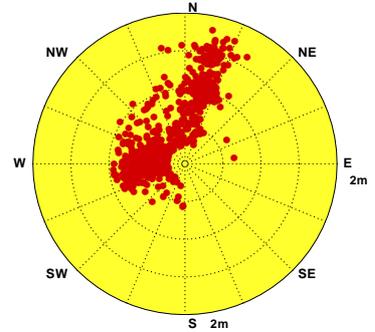
Wave of KHX0 at 2019/06 NO=664(92%)
Hs : MEAN=.7m MAX=1.6m(SW,8s)
N-E:0% E-S:0% S-W:99% W-N:1%



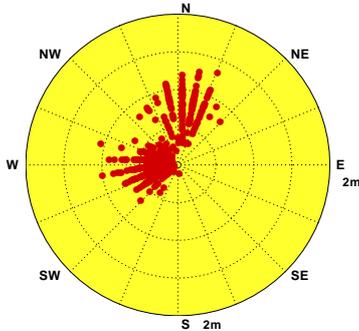
Wave of CNX0 at 2019/06



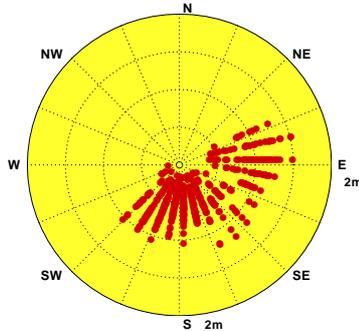
Wave of TCX0 at 2019/06 NO=715(99%)
Hs : MEAN=.7m MAX=1.7m(N, 7s)
N-E:30% E-S:0% S-W:34% W-N:36%



Wave of PHY0 at 2019/06 NO=628(87%)
Hs : MEAN=.5m MAX=1.2m(NNE,5s)
N-E:19% E-S:0% S-W:52% W-N:29%



Wave of KMY0 at 2019/06 NO=544(76%)
Hs : MEAN=.7m MAX=1.4m(ENE,5s)
N-E:8% E-S:40% S-W:52% W-N:0%



Wave of MSY0 at 2019/06 NO=647(90%)
Hs : MEAN=1.0m MAX=2.2m(S, 5s)
N-E:38% E-S:16% S-W:46% W-N:0%

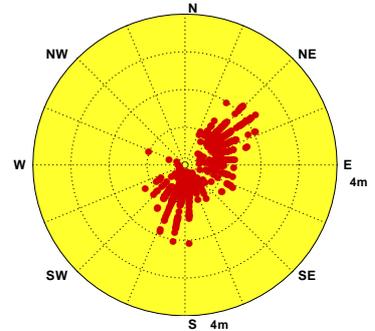


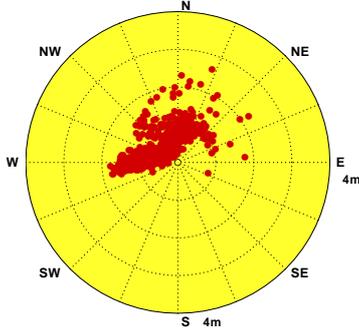
圖4.7a 2019年6月12海域主要測站1修補前波高向量分佈圖

V196TPX0.1H0 V196KLX0.1H0 V196SAX0.1H0 V196HLX0.1H0 V196LTY0.1H0 V196PNY0.1H0
V196KHX0.1H0 V196CNX0.1H0 V196TCX0.1H0 V196PHY0.1H0 V196KMY0.1H0 V196MSY0.1H0

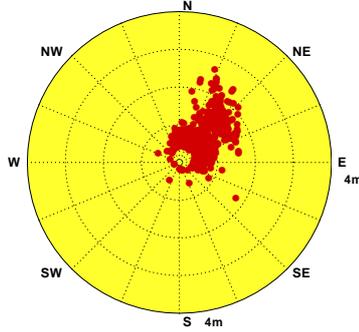
Institute of Harbor & Marine Technology

Distribution of H_s Vectors

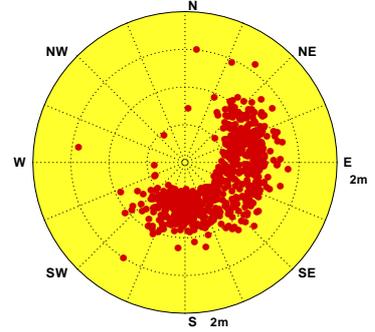
Wave of TPX0 at 2019/06 NO=720(100%)
Hs : MEAN=.8m MAX=2.4m(NNE,8s)
N-E:14% E-S:0% S-W:31% W-N:55%



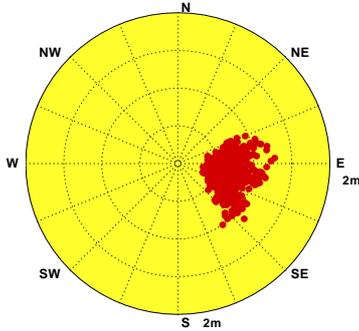
Wave of KLX0 at 2019/06 NO=720(100%)
Hs : MEAN=.8m MAX=2.5m(NNE,7s)
N-E:84% E-S:8% S-W:2% W-N:6%



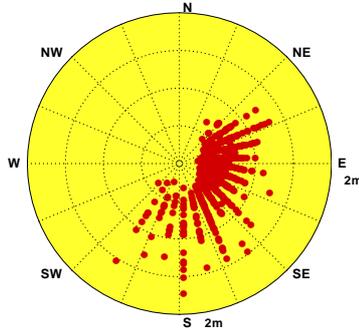
Wave of SAX0 at 2019/06 NO=720(100%)
Hs : MEAN=.8m MAX=1.6m(SSW,8s)
N-E:29% E-S:48% S-W:23% W-N:0%



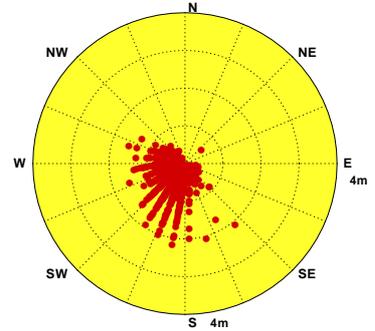
Wave of HLX0 at 2019/06 NO=720(100%)
Hs : MEAN=.6m MAX=1.2m(E, 8s)
N-E:14% E-S:86% S-W:0% W-N:0%



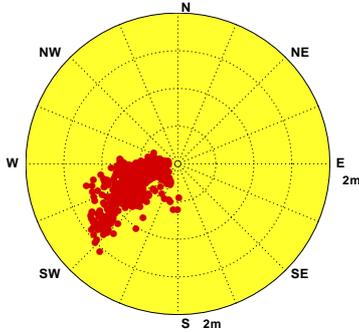
Wave of LTY0 at 2019/06 NO=720(100%)
Hs : MEAN=.6m MAX=1.8m(S, 6s)
N-E:23% E-S:70% S-W:7% W-N:0%



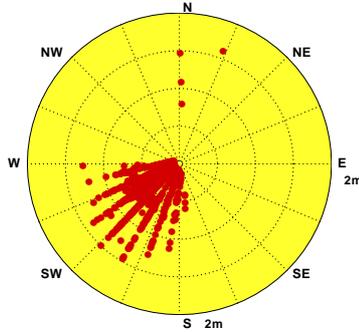
Wave of PNY0 at 2019/06 NO=720(100%)
Hs : MEAN=.8m MAX=2.3m(S, 7s)
N-E:0% E-S:5% S-W:78% W-N:17%



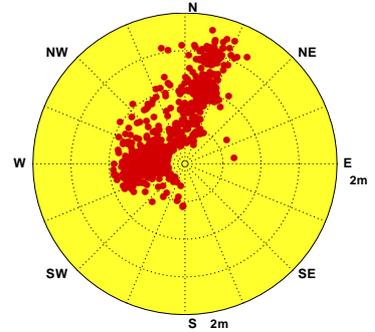
Wave of KHX0 at 2019/06 NO=720(100%)
Hs : MEAN=.7m MAX=1.6m(SW,8s)
N-E:0% E-S:0% S-W:99% W-N:1%



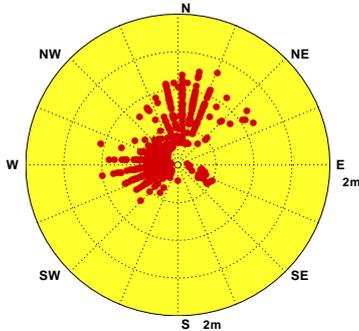
Wave of CNX0 at 2019/06 NO=720(100%)
Hs : MEAN=.7m MAX=1.6m(SW,8s)
N-E:0% E-S:1% S-W:99% W-N:0%



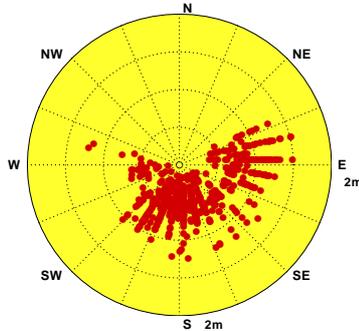
Wave of TCX0 at 2019/06 NO=720(100%)
Hs : MEAN=.7m MAX=1.7m(N, 7s)
N-E:30% E-S:0% S-W:34% W-N:36%



Wave of PHY0 at 2019/06 NO=720(100%)
Hs : MEAN=.5m MAX=1.2m(NNE,5s)
N-E:18% E-S:4% S-W:47% W-N:31%



Wave of KMY0 at 2019/06 NO=720(100%)
Hs : MEAN=.7m MAX=1.4m(ENE,5s)
N-E:7% E-S:39% S-W:53% W-N:1%



Wave of MSY0 at 2019/06 NO=720(100%)
Hs : MEAN=1.0m MAX=2.8m(ESE,5s)
N-E:36% E-S:22% S-W:42% W-N:0%

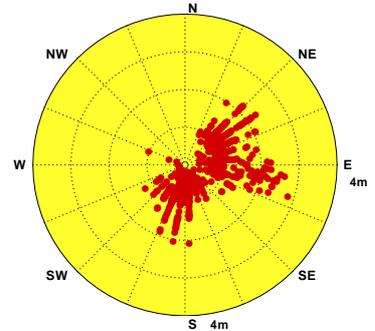


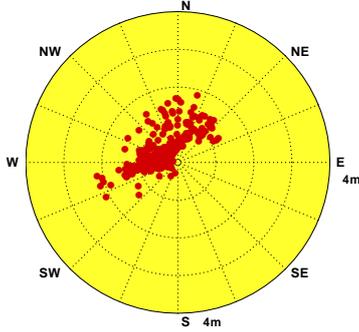
圖4.7b 2019年 6月12海域主要測站1修補後波高向量分佈圖

V196TPX0.1HA V196KLX0.1HA V196SAX0.1HA V196HLX0.1HA V196LTY0.1HA V196PNY0.1HA
V196KHX0.1HA V196CNX0.1HA V196TCX0.1HA V196PHY0.1HA V196KMY0.1HA V196MSY0.1HA

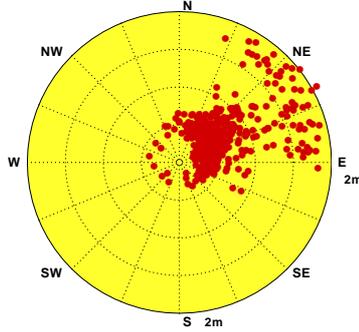
Institute of Harbor & Marine Technology

Distribution of H_s Vectors

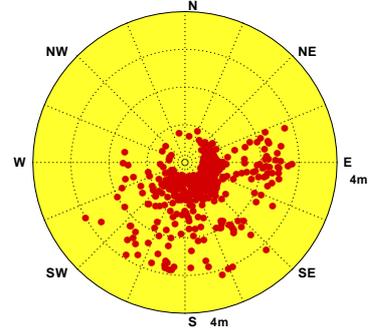
Wave of TPX0 at 2019/07 NO=476(64%)
 Hs : MEAN=.7m MAX=2.3m(WSW,6s)
 N-E:11% E-S:0% S-W:47% W-N:42%



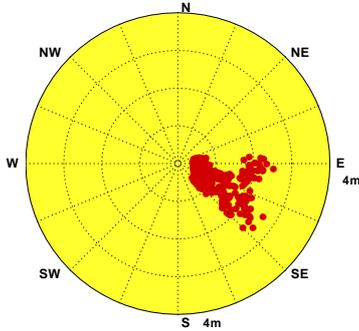
Wave of KLX0 at 2019/07 NO=672(90%)
 Hs : MEAN=.6m MAX=2.0m(E, 10s)
 N-E:84% E-S:13% S-W:1% W-N:2%



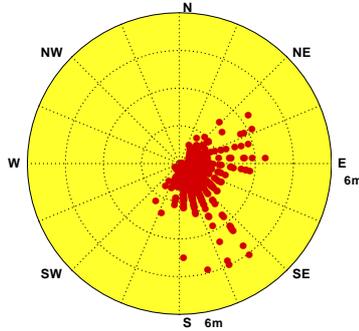
Wave of SAX0 at 2019/07 NO=737(99%)
 Hs : MEAN=.9m MAX=3.2m(SSE,11s)
 N-E:14% E-S:64% S-W:21% W-N:1%



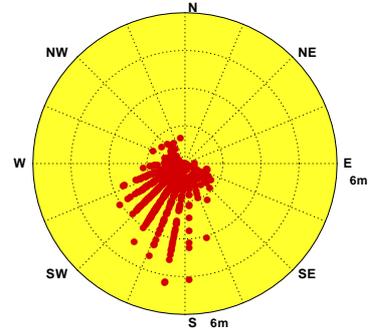
Wave of HLX0 at 2019/07 NO=744(100%)
 Hs : MEAN=.8m MAX=2.6m(SE,11s)
 N-E:0% E-S:99% S-W:0% W-N:0%



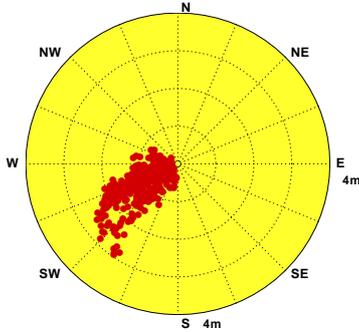
Wave of LTY0 at 2019/07 NO=617(83%)
 Hs : MEAN=1.0m MAX=4.6m(SE,8s)
 N-E:11% E-S:72% S-W:17% W-N:0%



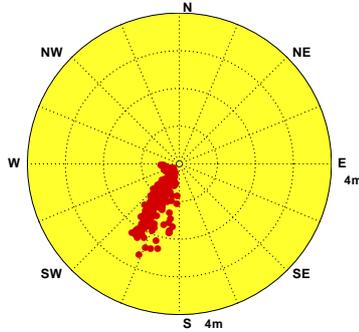
Wave of PNY0 at 2019/07 NO=615(83%)
 Hs : MEAN=1.4m MAX=5.1m(S, 9s)
 N-E:0% E-S:8% S-W:88% W-N:4%



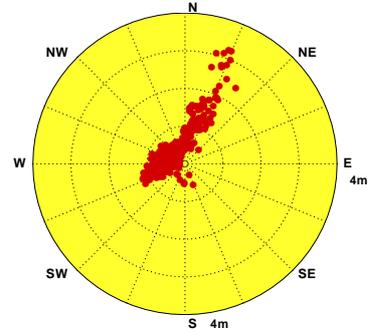
Wave of KHX0 at 2019/07 NO=717(96%)
 Hs : MEAN=1.2m MAX=3.1m(SW,9s)
 N-E:0% E-S:0% S-W:97% W-N:3%



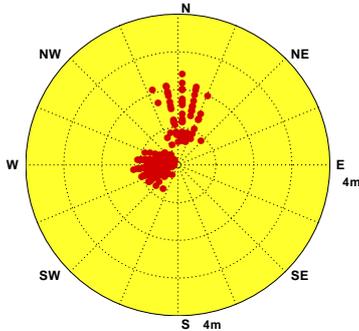
Wave of CNX0 at 2019/07 NO=272(37%)
 Hs : MEAN=1.2m MAX=2.8m(SSW,10s)
 N-E:0% E-S:0% S-W:99% W-N:0%



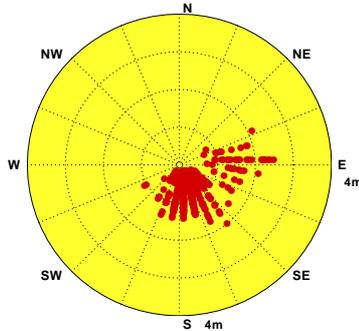
Wave of TCX0 at 2019/07 NO=743(100%)
 Hs : MEAN=.7m MAX=3.1m(NNE,8s)
 N-E:12% E-S:0% S-W:54% W-N:34%



Wave of PHY0 at 2019/07 NO=629(85%)
 Hs : MEAN=.6m MAX=2.3m(N, 6s)
 N-E:7% E-S:0% S-W:72% W-N:21%



Wave of KMY0 at 2019/07 NO=483(65%)
 Hs : MEAN=.9m MAX=2.4m(E, 7s)
 N-E:2% E-S:47% S-W:51% W-N:0%



Wave of MSY0 at 2019/07 NO=626(84%)
 Hs : MEAN=1.3m MAX=2.8m(S, 6s)
 N-E:8% E-S:35% S-W:57% W-N:0%

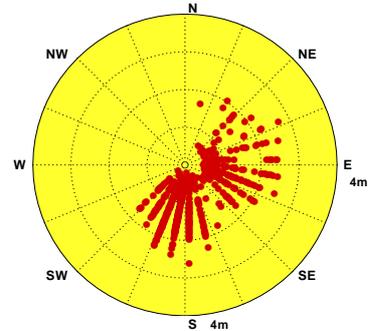


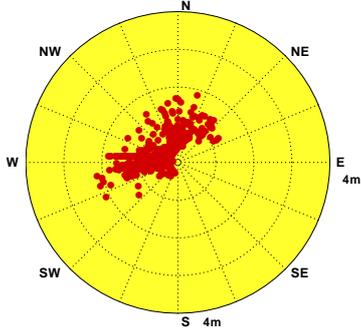
圖4.8a 2019年7月12海域主要測站1修補前波高向量分佈圖

V197TPX0.1H0 V197KLX0.1H0 V197SAX0.1H0 V197HLX0.1H0 V197LTY0.1H0 V197PNY0.1H0
 V197KHX0.1H0 V197CNX0.1H0 V197TCX0.1H0 V197PHY0.1H0 V197KMY0.1H0 V197MSY0.1H0

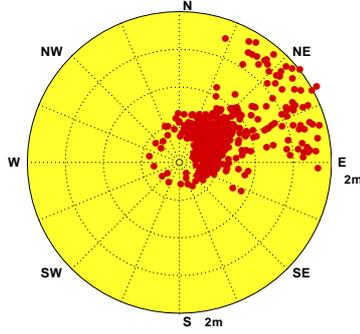
Institute of Harbor & Marine Technology

Distribution of H_s Vectors

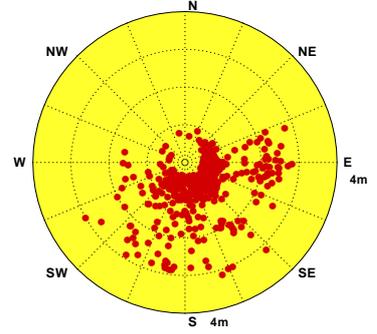
Wave of TPX0 at 2019/07 NO=744(100%)
Hs : MEAN=.9m MAX=2.3m(WSW,6s)
N-E:8% E-S:0% S-W:47% W-N:45%



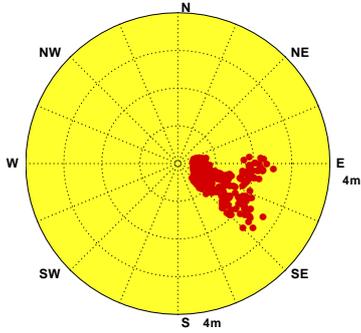
Wave of KLX0 at 2019/07 NO=744(100%)
Hs : MEAN=.6m MAX=2.0m(E, 10s)
N-E:85% E-S:12% S-W:1% W-N:2%



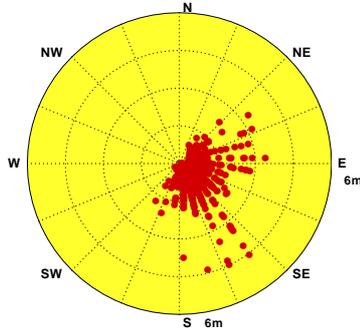
Wave of SAX0 at 2019/07 NO=744(100%)
Hs : MEAN=.9m MAX=3.2m(SSE,11s)
N-E:14% E-S:64% S-W:21% W-N:1%



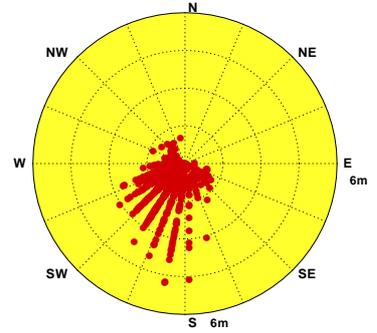
Wave of HLX0 at 2019/07 NO=744(100%)
Hs : MEAN=.8m MAX=2.6m(SE,11s)
N-E:0% E-S:99% S-W:0% W-N:0%



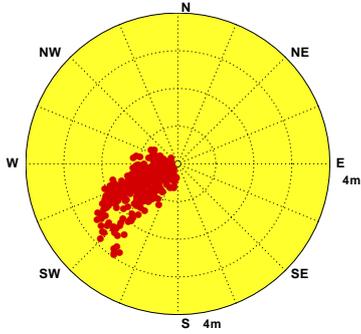
Wave of LTY0 at 2019/07 NO=744(100%)
Hs : MEAN=.9m MAX=4.6m(SE,8s)
N-E:10% E-S:76% S-W:14% W-N:0%



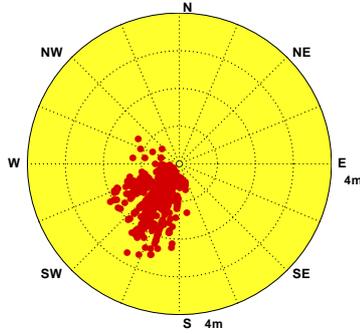
Wave of PNY0 at 2019/07 NO=744(100%)
Hs : MEAN=1.4m MAX=5.1m(S, 9s)
N-E:0% E-S:7% S-W:90% W-N:3%



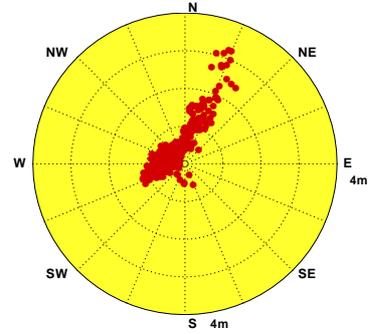
Wave of KHX0 at 2019/07 NO=744(100%)
Hs : MEAN=1.2m MAX=3.1m(SW,9s)
N-E:0% E-S:0% S-W:97% W-N:3%



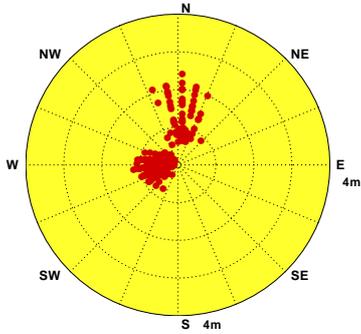
Wave of CNX0 at 2019/07 NO=744(100%)
Hs : MEAN=1.1m MAX=2.9m(SSW,10s)
N-E:0% E-S:1% S-W:98% W-N:1%



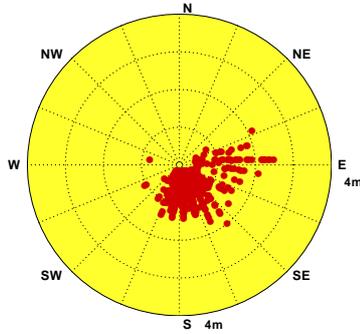
Wave of TCX0 at 2019/07 NO=744(100%)
Hs : MEAN=.7m MAX=3.1m(NNE,8s)
N-E:12% E-S:0% S-W:54% W-N:34%



Wave of PHY0 at 2019/07 NO=744(100%)
Hs : MEAN=.6m MAX=2.3m(N, 6s)
N-E:6% E-S:0% S-W:75% W-N:19%



Wave of KMY0 at 2019/07 NO=744(100%)
Hs : MEAN=.9m MAX=2.4m(E, 7s)
N-E:2% E-S:44% S-W:54% W-N:0%



Wave of MSY0 at 2019/07 NO=744(100%)
Hs : MEAN=1.2m MAX=2.8m(S, 6s)
N-E:12% E-S:38% S-W:50% W-N:0%

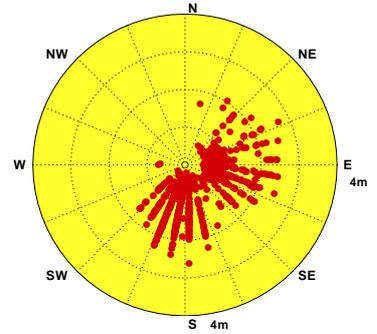


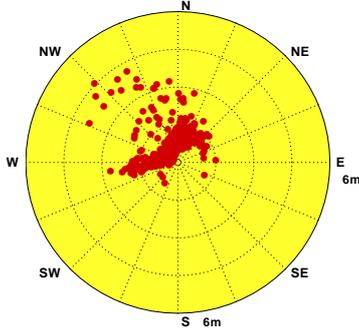
圖4.8b 2019年7月12海域主要測站1修補後波高向量分佈圖

V197TPX0.1HA V197KLX0.1HA V197SAX0.1HA V197HLX0.1HA V197LTY0.1HA V197PNY0.1HA
V197KHX0.1HA V197CNX0.1HA V197TCX0.1HA V197PHY0.1HA V197KMY0.1HA V197MSY0.1HA

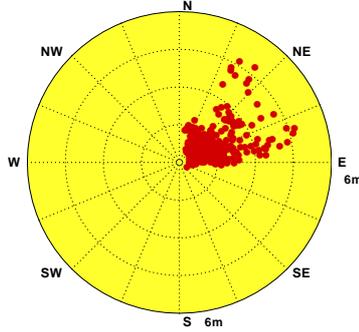
Institute of Harbor & Marine Technology

Distribution of H_s Vectors

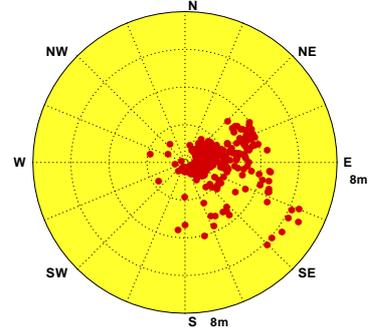
Wave of TPX0 at 2019/08 NO=695(93%)
 Hs : MEAN=.9m MAX=4.5m(NW,8s)
 N-E:21% E-S:0% S-W:33% W-N:46%



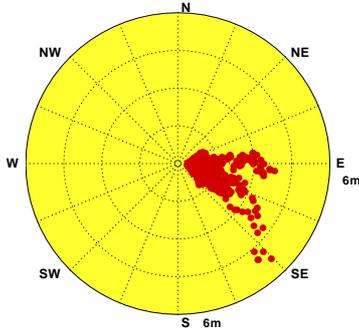
Wave of KLX0 at 2019/08 NO=704(95%)
 Hs : MEAN=1.1m MAX=4.5m(NE,11s)
 N-E:84% E-S:16% S-W:0% W-N:0%



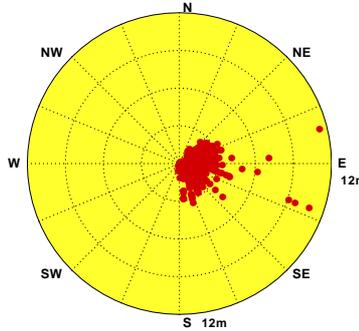
Wave of SAX0 at 2019/08 NO=562(76%)
 Hs : MEAN=1.3m MAX=6.7m(ESE,13s)
 N-E:62% E-S:34% S-W:3% W-N:1%



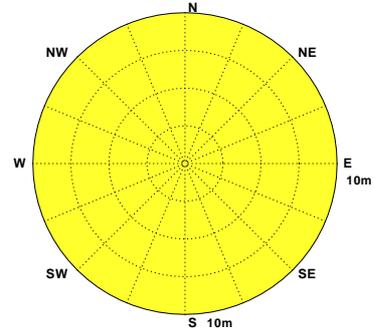
Wave of HLX0 at 2019/08 NO=738(99%)
 Hs : MEAN=1.2m MAX=5.3m(SE,12s)
 N-E:10% E-S:90% S-W:0% W-N:0%



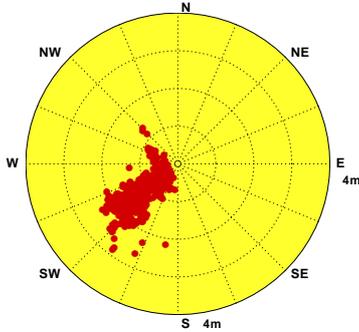
Wave of LTY0 at 2019/08 NO=680(91%)
 Hs : MEAN=1.3m MAX=11.0m(ENE,11s)
 N-E:21% E-S:72% S-W:7% W-N:0%



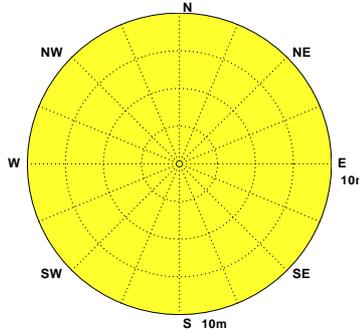
Wave of PNY0 at 2019/08



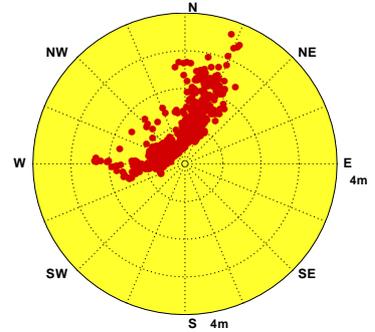
Wave of KHX0 at 2019/08 NO=534(72%)
 Hs : MEAN=1.3m MAX=3.0m(SW,9s)
 N-E:0% E-S:0% S-W:96% W-N:4%



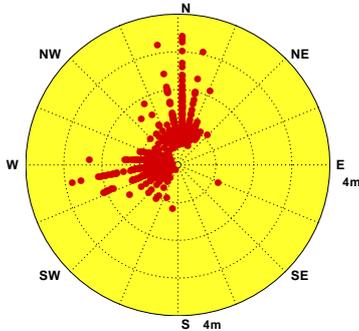
Wave of CNX0 at 2019/08



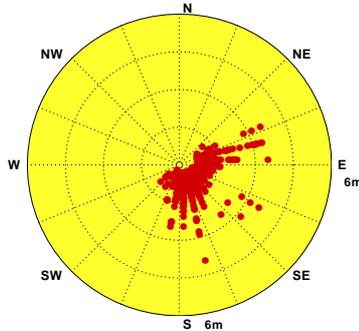
Wave of TCX0 at 2019/08 NO=741(100%)
 Hs : MEAN=1.0m MAX=3.5m(NNE,8s)
 N-E:35% E-S:0% S-W:26% W-N:39%



Wave of PHY0 at 2019/08 NO=676(91%)
 Hs : MEAN=.9m MAX=3.3m(N, 6s)
 N-E:19% E-S:0% S-W:53% W-N:28%



Wave of KMY0 at 2019/08 NO=559(75%)
 Hs : MEAN=1.1m MAX=4.1m(SSE,7s)
 N-E:11% E-S:56% S-W:33% W-N:0%



Wave of MSY0 at 2019/08 NO=693(93%)
 Hs : MEAN=1.5m MAX=6.9m(ENE,10s)
 N-E:35% E-S:47% S-W:18% W-N:0%

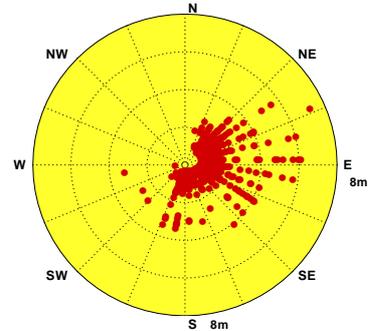


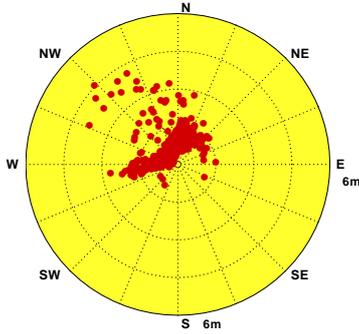
圖4.9a 2019年 8月12海域主要測站1修補前波高向量分佈圖

V198TPX0.1H0 V198KLX0.1H0 V198SAX0.1H0 V198HLX0.1H0 V198LTY0.1H0 V198PNY0.1H0
 V198KHX0.1H0 V198CNX0.1H0 V198TCX0.1H0 V198PHY0.1H0 V198KMY0.1H0 V198MSY0.1H0

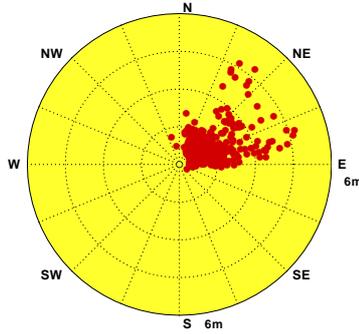
Institute of Harbor & Marine Technology

Distribution of H_s Vectors

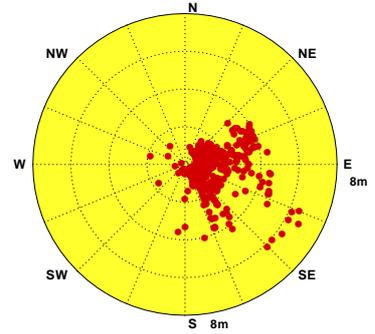
Wave of TPX0 at 2019/08 NO=744(100%)
Hs : MEAN=.9m MAX=4.5m(NW,8s)
N-E:22% E-S:0% S-W:31% W-N:47%



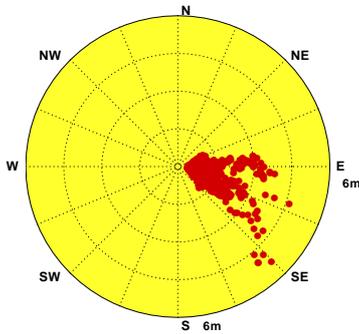
Wave of KLX0 at 2019/08 NO=744(100%)
Hs : MEAN=1.1m MAX=4.5m(NE,11s)
N-E:84% E-S:16% S-W:0% W-N:0%



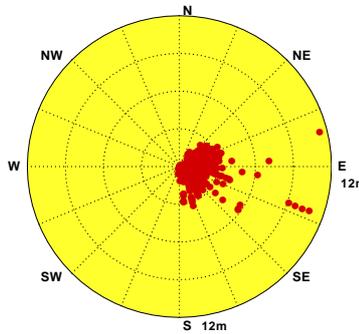
Wave of SAX0 at 2019/08 NO=744(100%)
Hs : MEAN=1.3m MAX=6.7m(ESE,13s)
N-E:48% E-S:49% S-W:3% W-N:0%



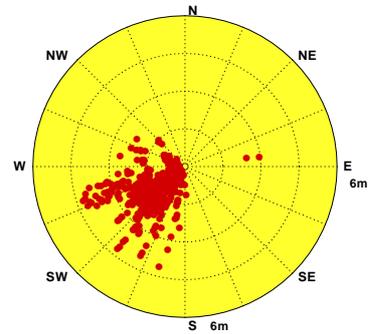
Wave of HLX0 at 2019/08 NO=744(100%)
Hs : MEAN=1.2m MAX=5.3m(SE,12s)
N-E:10% E-S:90% S-W:0% W-N:0%



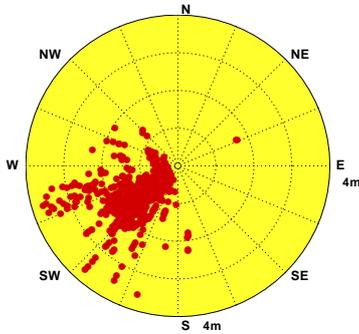
Wave of LTY0 at 2019/08 NO=744(100%)
Hs : MEAN=1.4m MAX=11.0m(ENE,11s)
N-E:21% E-S:72% S-W:7% W-N:0%



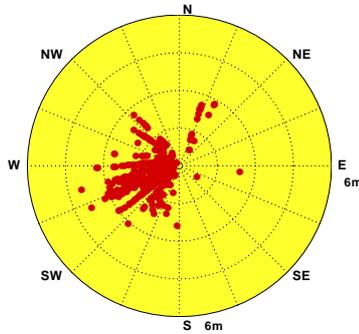
Wave of PNY0 at 2019/08 NO=744(100%)
Hs : MEAN=1.7m MAX=4.5m(SW,7s)
N-E:0% E-S:0% S-W:96% W-N:4%



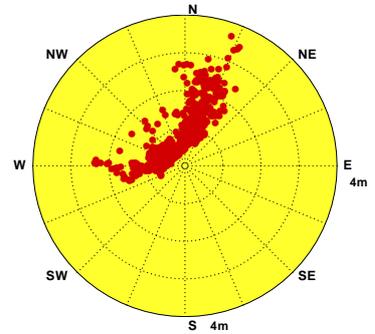
Wave of KHX0 at 2019/08 NO=744(100%)
Hs : MEAN=1.5m MAX=3.9m(SW,9s)
N-E:0% E-S:1% S-W:95% W-N:4%



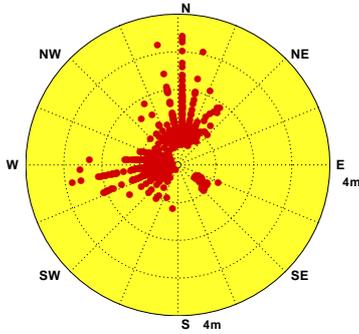
Wave of CNX0 at 2019/08 NO=744(100%)
Hs : MEAN=1.5m MAX=4.2m(WSW,9s)
N-E:2% E-S:0% S-W:89% W-N:9%



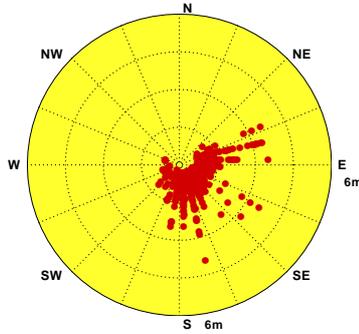
Wave of TCX0 at 2019/08 NO=744(100%)
Hs : MEAN=1.0m MAX=3.5m(NNE,8s)
N-E:35% E-S:0% S-W:26% W-N:39%



Wave of PHY0 at 2019/08 NO=744(100%)
Hs : MEAN=.9m MAX=3.3m(N, 6s)
N-E:19% E-S:4% S-W:51% W-N:26%



Wave of KMY0 at 2019/08 NO=744(100%)
Hs : MEAN=1.1m MAX=4.1m(SSE,7s)
N-E:8% E-S:58% S-W:34% W-N:0%



Wave of MSY0 at 2019/08 NO=744(100%)
Hs : MEAN=1.5m MAX=6.9m(ENE,10s)
N-E:38% E-S:45% S-W:17% W-N:0%

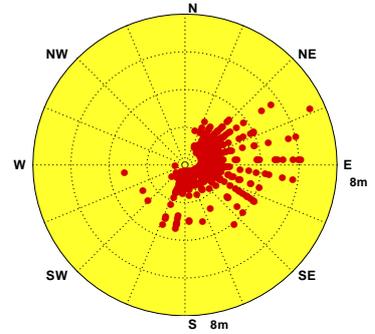


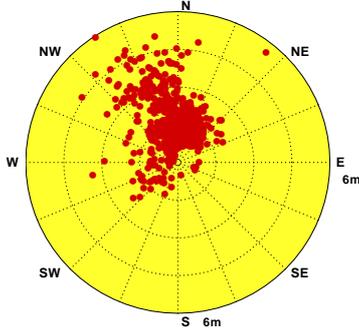
圖4.9b 2019年8月12海域主要測站1修補後波高向量分佈圖

V198TPX0.1HA V198KLX0.1HA V198SAX0.1HA V198HLX0.1HA V198LTY0.1HA V198PNY0.1HA
V198KHX0.1HA V198CNX0.1HA V198TCX0.1HA V198PHY0.1HA V198KMY0.1HA V198MSY0.1HA

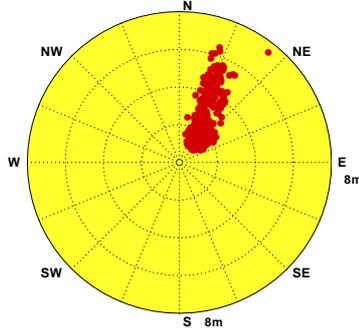
Institute of Harbor & Marine Technology

Distribution of H_s Vectors

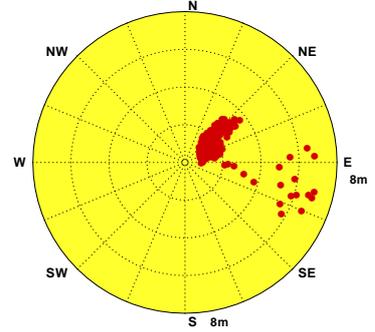
Wave of TPX0 at 2019/09 NO=712(99%)
Hs : MEAN=1.5m MAX=5.8m(NW,6s)
N-E:33% E-S:1% S-W:7% W-N:59%



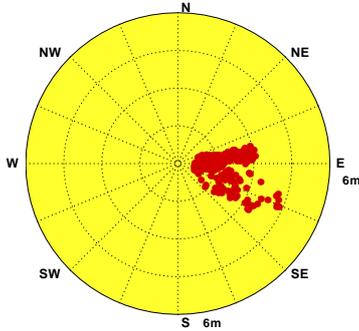
Wave of KLX0 at 2019/09 NO=720(100%)
Hs : MEAN=1.8m MAX=7.1m(NE,13s)
N-E:99% E-S:0% S-W:0% W-N:0%



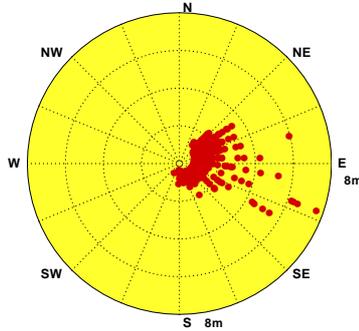
Wave of SAX0 at 2019/09 NO=460(64%)
Hs : MEAN=1.5m MAX=6.8m(ESE,14s)
N-E:93% E-S:7% S-W:0% W-N:0%



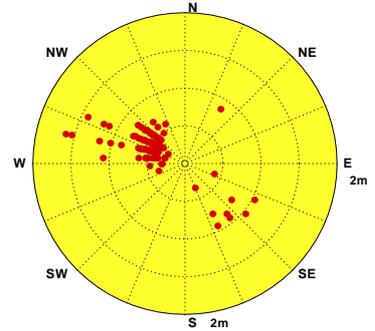
Wave of HLX0 at 2019/09 NO=717(100%)
Hs : MEAN=1.4m MAX=4.3m(ESE,13s)
N-E:24% E-S:76% S-W:0% W-N:0%



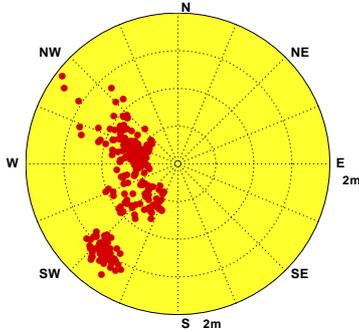
Wave of LTY0 at 2019/09 NO=553(77%)
Hs : MEAN=1.4m MAX=7.5m(ESE,12s)
N-E:57% E-S:40% S-W:3% W-N:0%



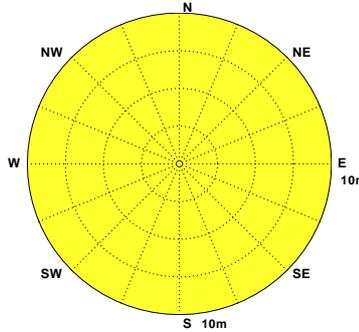
Wave of PNY0 at 2019/09 NO=122(17%)
Hs : MEAN=.6m MAX=1.6m(W, 5s)
N-E:1% E-S:7% S-W:3% W-N:89%



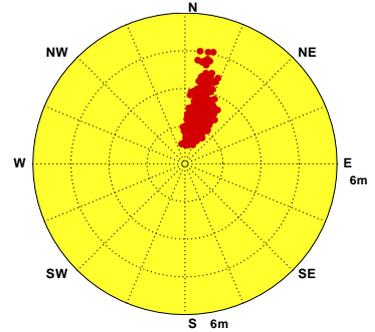
Wave of KHX0 at 2019/09 NO=270(38%)
Hs : MEAN=.9m MAX=1.9m(NW,6s)
N-E:0% E-S:0% S-W:56% W-N:44%



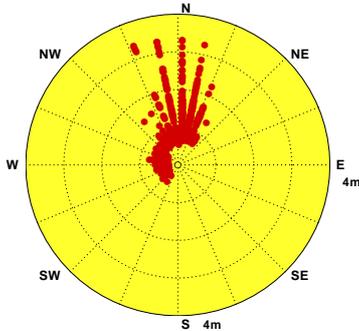
Wave of CNX0 at 2019/09



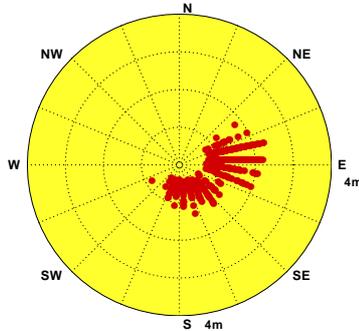
Wave of TCX0 at 2019/09 NO=717(100%)
Hs : MEAN=1.5m MAX=4.3m(NNE,9s)
N-E:87% E-S:0% S-W:0% W-N:13%



Wave of PHY0 at 2019/09 NO=546(76%)
Hs : MEAN=1.1m MAX=3.3m(NNW,6s)
N-E:52% E-S:0% S-W:17% W-N:31%



Wave of KMY0 at 2019/09 NO=461(64%)
Hs : MEAN=1.1m MAX=2.2m(ENE,6s)
N-E:31% E-S:56% S-W:13% W-N:0%



Wave of MSY0 at 2019/09 NO=561(78%)
Hs : MEAN=1.6m MAX=4.7m(NE,7s)
N-E:60% E-S:39% S-W:0% W-N:1%

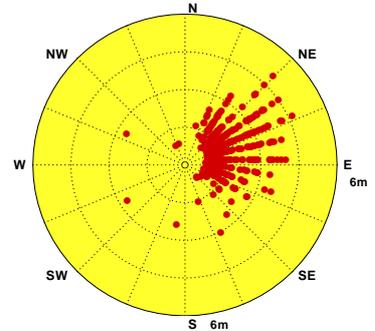


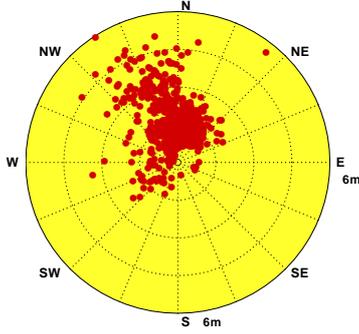
圖4.10a 2019年 9月12海域主要測站1修補前波高向量分佈圖

V199TPX0.1H0 V199KLX0.1H0 V199SAX0.1H0 V199HLX0.1H0 V199LTY0.1H0 V199PNY0.1H0
V199KHX0.1H0 V199CNX0.1H0 V199TCX0.1H0 V199PHY0.1H0 V199KMY0.1H0 V199MSY0.1H0

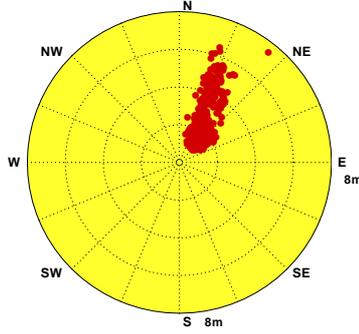
Institute of Harbor & Marine Technology

Distribution of H_s Vectors

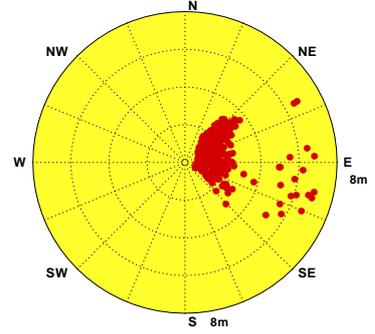
Wave of TPX0 at 2019/09 NO=720(100%)
Hs : MEAN=1.5m MAX=5.8m(NW,6s)
N-E:33% E-S:1% S-W:7% W-N:59%



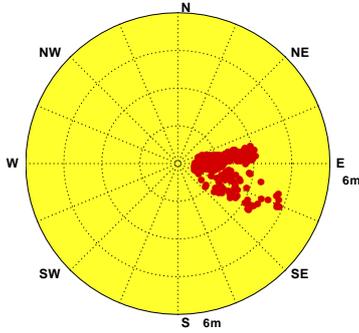
Wave of KLX0 at 2019/09 NO=720(100%)
Hs : MEAN=1.8m MAX=7.1m(NE,13s)
N-E:99% E-S:0% S-W:0% W-N:0%



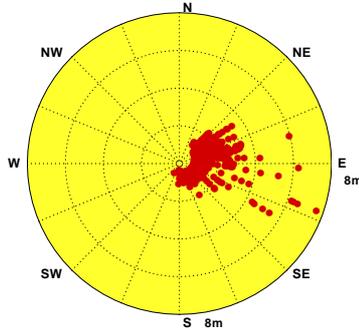
Wave of SAX0 at 2019/09 NO=720(100%)
Hs : MEAN=1.4m MAX=6.8m(ESE,14s)
N-E:71% E-S:29% S-W:0% W-N:0%



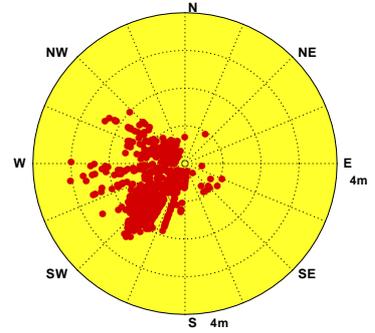
Wave of HLX0 at 2019/09 NO=720(100%)
Hs : MEAN=1.4m MAX=4.3m(ESE,13s)
N-E:24% E-S:76% S-W:0% W-N:0%



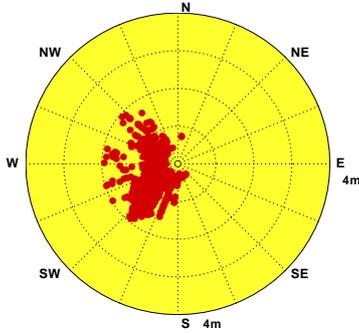
Wave of LTY0 at 2019/09 NO=720(100%)
Hs : MEAN=1.5m MAX=7.5m(ESE,12s)
N-E:62% E-S:35% S-W:3% W-N:0%



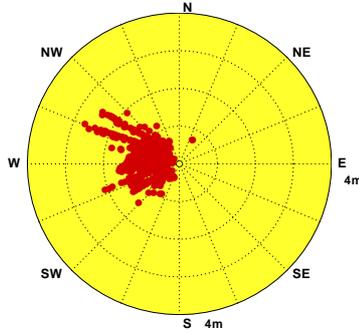
Wave of PNY0 at 2019/09 NO=720(100%)
Hs : MEAN=1.3m MAX=3.2m(W, 5s)
N-E:0% E-S:1% S-W:70% W-N:29%



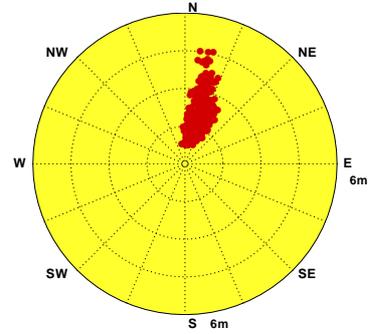
Wave of KHX0 at 2019/09 NO=720(100%)
Hs : MEAN=1.1m MAX=2.1m(WSW,13s)
N-E:0% E-S:1% S-W:68% W-N:31%



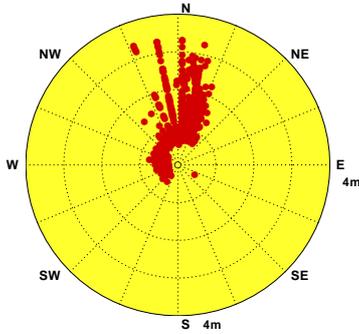
Wave of CNX0 at 2019/09 NO=720(100%)
Hs : MEAN=1.0m MAX=2.8m(WNW,8s)
N-E:0% E-S:0% S-W:58% W-N:42%



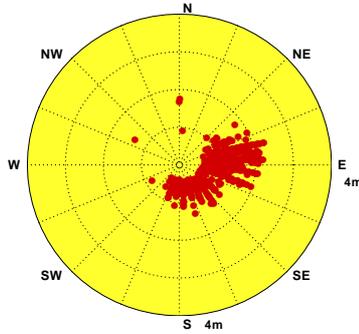
Wave of TCX0 at 2019/09 NO=720(100%)
Hs : MEAN=1.5m MAX=4.3m(NNE,9s)
N-E:87% E-S:0% S-W:0% W-N:13%



Wave of PHY0 at 2019/09 NO=720(100%)
Hs : MEAN=1.2m MAX=3.3m(NNW,6s)
N-E:61% E-S:0% S-W:13% W-N:26%



Wave of KMY0 at 2019/09 NO=720(100%)
Hs : MEAN=1.1m MAX=2.2m(ENE,6s)
N-E:33% E-S:58% S-W:8% W-N:1%



Wave of MSY0 at 2019/09 NO=720(100%)
Hs : MEAN=1.7m MAX=4.7m(NE,7s)
N-E:64% E-S:36% S-W:0% W-N:0%

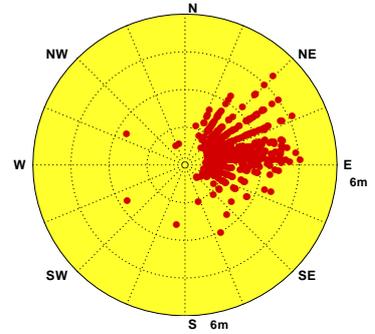


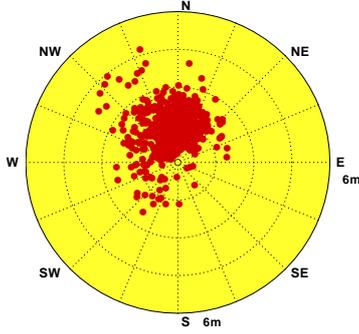
圖4.10b 2019年 9月12海域主要測站1修補後波高向量分佈圖

V199TPX0.1HA V199KLX0.1HA V199SAX0.1HA V199HLX0.1HA V199LTY0.1HA V199PNY0.1HA
V199KHX0.1HA V199CNX0.1HA V199TCX0.1HA V199PHY0.1HA V199KMY0.1HA V199MSY0.1HA

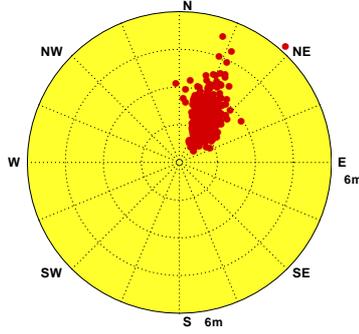
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Distribution of H_s Vectors

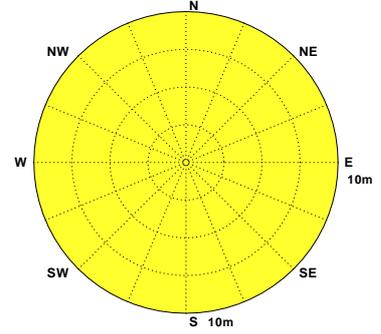
Wave of TPX0 at 2019/10 NO=738(99%)
Hs : MEAN=1.4m MAX=4.6m(NNW,10s)
N-E:33% E-S:1% S-W:6% W-N:60%



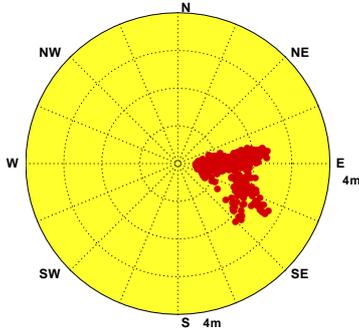
Wave of KLX0 at 2019/10 NO=741(100%)
Hs : MEAN=1.6m MAX=6.0m(NE,12s)
N-E:99% E-S:0% S-W:0% W-N:0%



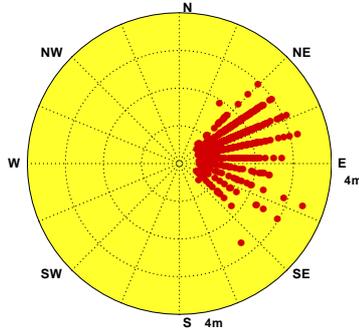
Wave of SAX0 at 2019/10



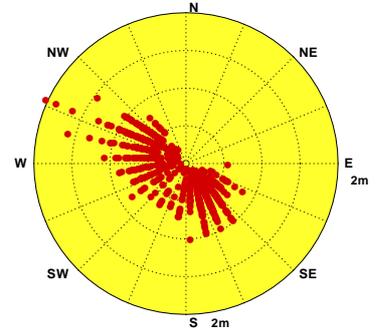
Wave of HLX0 at 2019/10 NO=681(92%)
Hs : MEAN=1.3m MAX=2.7m(ESE,14s)
N-E:19% E-S:81% S-W:0% W-N:0%



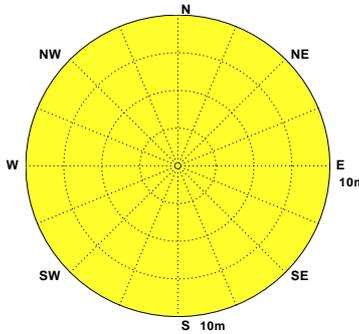
Wave of LTY0 at 2019/10 NO=691(93%)
Hs : MEAN=1.4m MAX=3.4m(ESE,11s)
N-E:77% E-S:23% S-W:0% W-N:0%



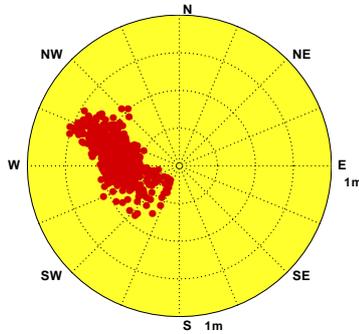
Wave of PNY0 at 2019/10 NO=702(94%)
Hs : MEAN=.6m MAX=2.0m(WNW,6s)
N-E:0% E-S:38% S-W:21% W-N:41%



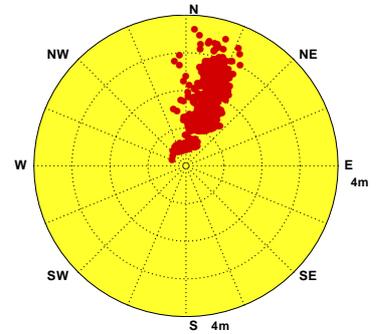
Wave of KHX0 at 2019/10



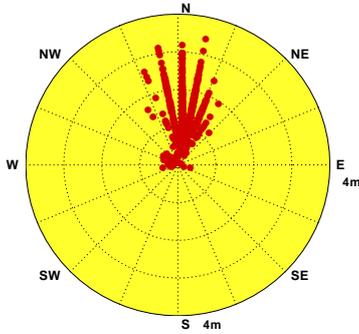
Wave of CNX0 at 2019/10 NO=635(85%)
Hs : MEAN=.4m MAX=.8m(WNW,5s)
N-E:0% E-S:0% S-W:44% W-N:56%



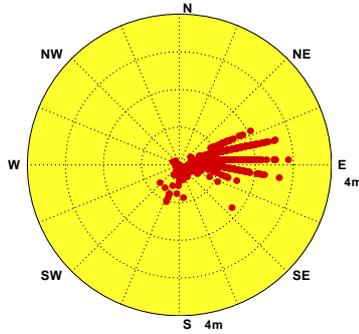
Wave of TCX0 at 2019/10 NO=729(98%)
Hs : MEAN=1.6m MAX=3.5m(N, 9s)
N-E:88% E-S:0% S-W:0% W-N:12%



Wave of PHY0 at 2019/10 NO=673(90%)
Hs : MEAN=1.2m MAX=3.2m(N, 6s)
N-E:75% E-S:0% S-W:5% W-N:20%



Wave of KMY0 at 2019/10 NO=581(78%)
Hs : MEAN=1.1m MAX=2.8m(E, 7s)
N-E:36% E-S:55% S-W:9% W-N:0%



Wave of MSY0 at 2019/10 NO=690(93%)
Hs : MEAN=1.7m MAX=5.5m(NE,8s)
N-E:77% E-S:21% S-W:1% W-N:1%

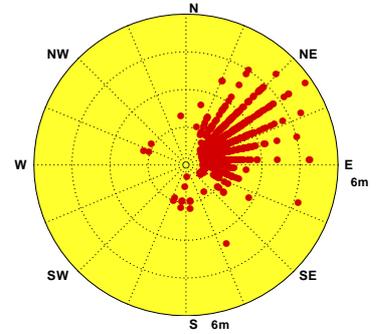


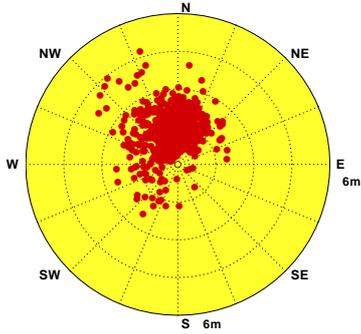
圖4.11a 2019年10月12海域主要測站1修補前波高向量分佈圖

V19ATPX0.1H0 V19AKLX0.1H0 V19ASAX0.1H0 V19AHLX0.1H0 V19ALTY0.1H0 V19APNY0.1H0
V19AKHX0.1H0 V19ACNX0.1H0 V19ATCX0.1H0 V19APHY0.1H0 V19AKMY0.1H0 V19AMSY0.1H0

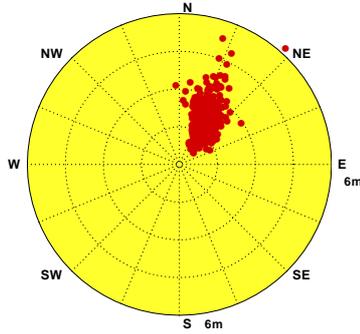
Institute of Harbor & Marine Technology

Distribution of H_s Vectors

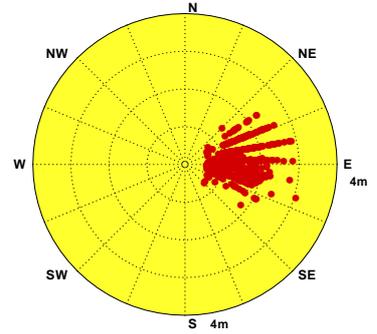
Wave of TPX0 at 2019/10 NO=744(100%)
 Hs : MEAN=1.4m MAX=4.6m(NNW,10s)
 N-E:33% E-S:1% S-W:6% W-N:60%



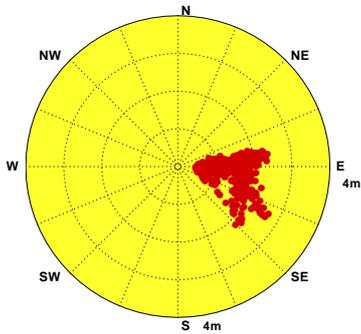
Wave of KLX0 at 2019/10 NO=744(100%)
 Hs : MEAN=1.6m MAX=6.0m(NE,12s)
 N-E:99% E-S:0% S-W:0% W-N:0%



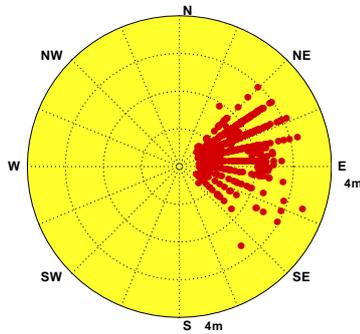
Wave of SAX0 at 2019/10 NO=744(100%)
 Hs : MEAN=1.3m MAX=3.0m(ESE,14s)
 N-E:37% E-S:63% S-W:0% W-N:0%



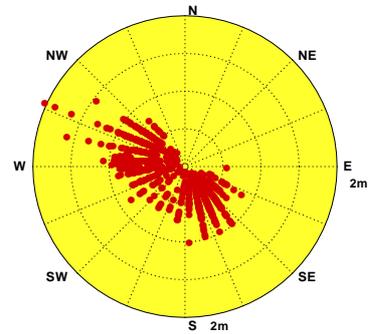
Wave of HLX0 at 2019/10 NO=744(100%)
 Hs : MEAN=1.3m MAX=2.7m(ESE,14s)
 N-E:19% E-S:81% S-W:0% W-N:0%



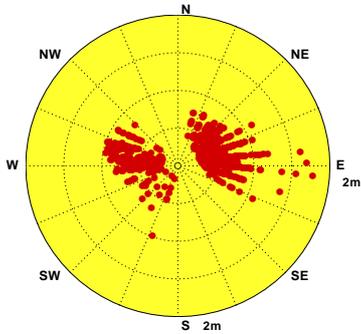
Wave of LTY0 at 2019/10 NO=744(100%)
 Hs : MEAN=1.4m MAX=3.4m(ESE,11s)
 N-E:76% E-S:24% S-W:0% W-N:0%



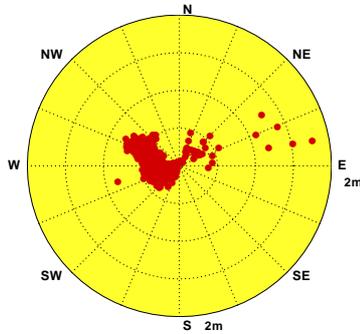
Wave of PNY0 at 2019/10 NO=744(100%)
 Hs : MEAN=.6m MAX=2.0m(WNW,6s)
 N-E:0% E-S:36% S-W:24% W-N:40%



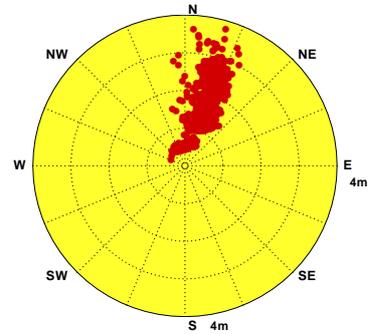
Wave of KHX0 at 2019/10 NO=744(100%)
 Hs : MEAN=.6m MAX=1.7m(E, 7s)
 N-E:47% E-S:26% S-W:13% W-N:14%



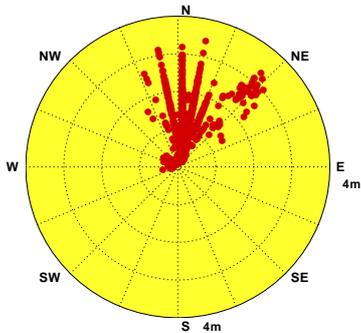
Wave of CNX0 at 2019/10 NO=744(100%)
 Hs : MEAN=.4m MAX=1.7m(E, 7s)
 N-E:4% E-S:0% S-W:46% W-N:50%



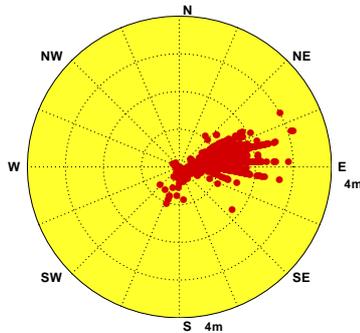
Wave of TCX0 at 2019/10 NO=744(100%)
 Hs : MEAN=1.6m MAX=3.6m(NNE,8s)
 N-E:89% E-S:0% S-W:0% W-N:11%



Wave of PHY0 at 2019/10 NO=744(100%)
 Hs : MEAN=1.3m MAX=3.2m(N, 6s)
 N-E:76% E-S:0% S-W:5% W-N:19%



Wave of KMY0 at 2019/10 NO=744(100%)
 Hs : MEAN=1.1m MAX=3.0m(ENE,6s)
 N-E:47% E-S:46% S-W:7% W-N:0%



Wave of MSY0 at 2019/10 NO=744(100%)
 Hs : MEAN=1.7m MAX=5.5m(NE,8s)
 N-E:78% E-S:20% S-W:1% W-N:1%

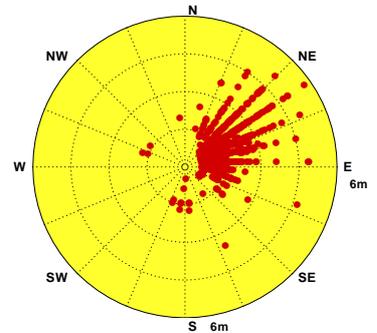


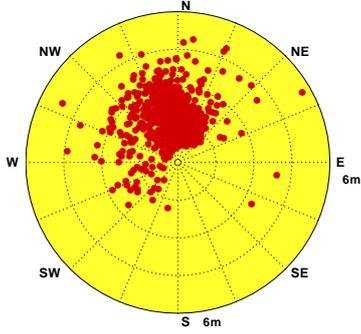
圖4.11b 2019年10月12海域主要測站1修補後波高向量分佈圖

V19ATPX0.1HA V19AKLX0.1HA V19ASAX0.1HA V19AHLX0.1HA V19ALTY0.1HA V19APNY0.1HA
 V19AKHX0.1HA V19ACNX0.1HA V19ATCX0.1HA V19APHY0.1HA V19AKMY0.1HA V19AMSY0.1HA

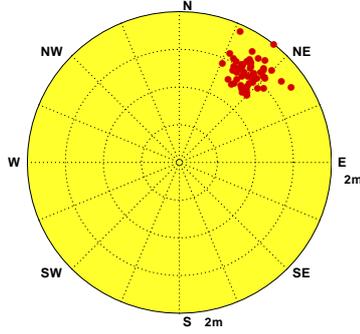
Institute of Harbor & Marine Technology

Distribution of H_s Vectors

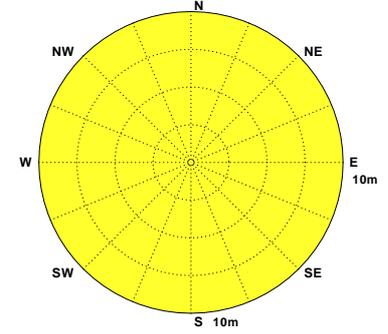
Wave of TPX0 at 2019/11 NO=711(99%)
Hs : MEAN=1.8m MAX=5.4m(ENE,6s)
N-E:26% E-S:0% S-W:5% W-N:69%



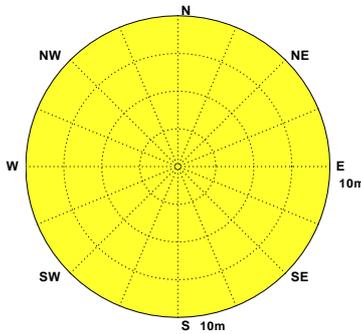
Wave of KLX0 at 2019/11 NO=56(8%)
Hs : MEAN=1.4m MAX=1.9m(NE,7s)
N-E:99% E-S:0% S-W:0% W-N:0%



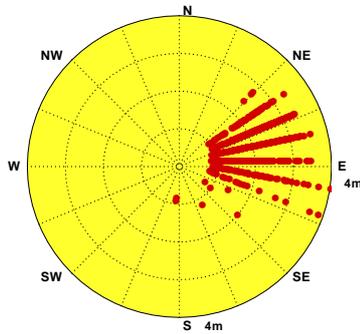
Wave of SAX0 at 2019/11



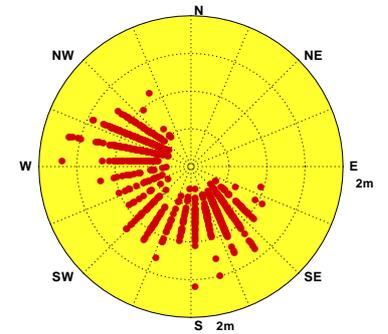
Wave of HLX0 at 2019/11



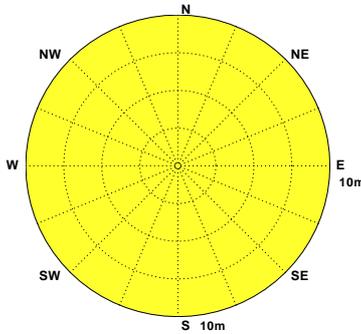
Wave of LTY0 at 2019/11 NO=705(98%)
Hs : MEAN=1.9m MAX=3.9m(E, 9s)
N-E:67% E-S:33% S-W:0% W-N:0%



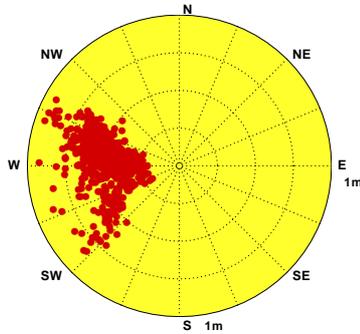
Wave of PNY0 at 2019/11 NO=720(100%)
Hs : MEAN=.8m MAX=1.8m(W, 7s)
N-E:0% E-S:33% S-W:22% W-N:45%



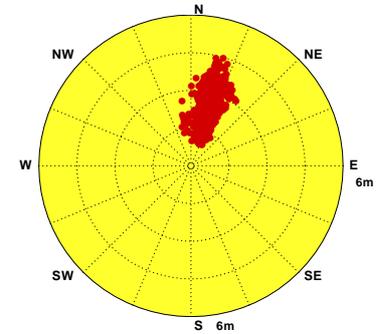
Wave of KHX0 at 2019/11



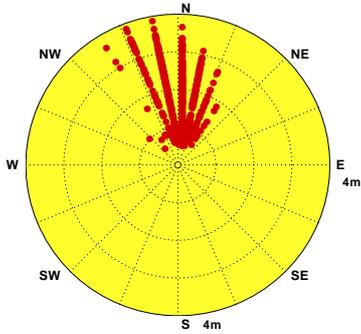
Wave of CNX0 at 2019/11 NO=709(98%)
Hs : MEAN=.5m MAX=.9m(W, 13s)
N-E:0% E-S:0% S-W:46% W-N:54%



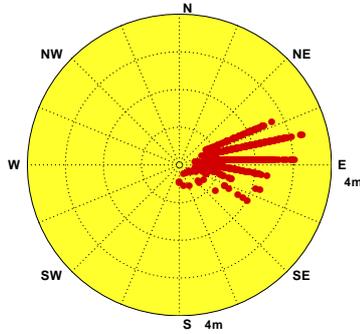
Wave of TCX0 at 2019/11 NO=698(97%)
Hs : MEAN=2.2m MAX=4.2m(NNE,10s)
N-E:96% E-S:0% S-W:0% W-N:4%



Wave of PHY0 at 2019/11 NO=705(98%)
Hs : MEAN=1.8m MAX=3.8m(NNW,7s)
N-E:61% E-S:0% S-W:0% W-N:39%



Wave of KMY0 at 2019/11 NO=562(78%)
Hs : MEAN=1.5m MAX=3.2m(ENE,7s)
N-E:48% E-S:51% S-W:1% W-N:0%



Wave of MSY0 at 2019/11 NO=719(100%)
Hs : MEAN=2.2m MAX=5.0m(ENE,7s)
N-E:77% E-S:23% S-W:0% W-N:0%

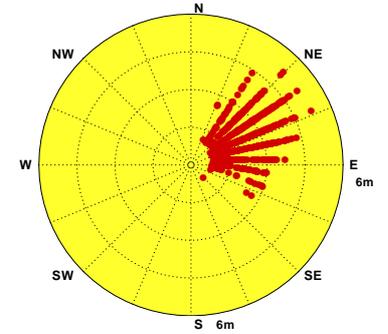


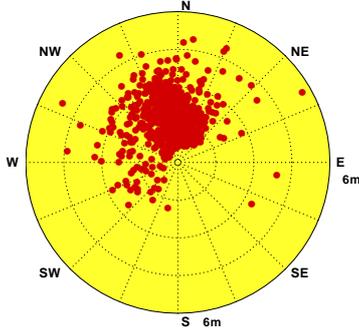
圖4.12a 2019年11月12海域主要測站1修補前波高向量分佈圖

V19BTPX0.1H0 V19BKLX0.1H0 V19BSAX0.1H0 V19BHLX0.1H0 V19BLTY0.1H0 V19BPNY0.1H0
V19BKHX0.1H0 V19BCNX0.1H0 V19BTCX0.1H0 V19BPHY0.1H0 V19BKMY0.1H0 V19BMSY0.1H0

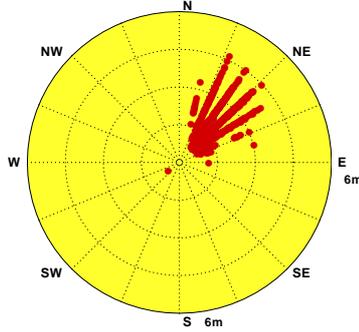
Institute of Harbor & Marine Technology

Distribution of H_s Vectors

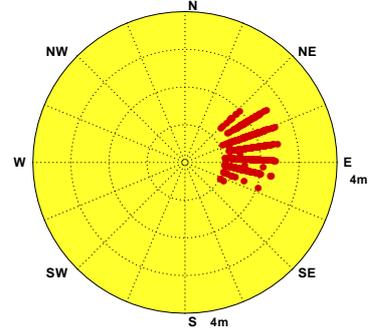
Wave of TPX0 at 2019/11 NO=720(100%)
Hs : MEAN=1.8m MAX=5.4m(ENE,6s)
N-E:27% E-S:0% S-W:5% W-N:68%



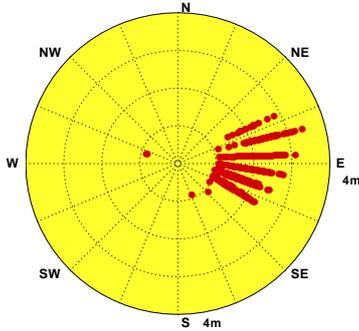
Wave of KLX0 at 2019/11 NO=720(100%)
Hs : MEAN=1.9m MAX=4.4m(NNE,10s)
N-E:99% E-S:0% S-W:0% W-N:0%



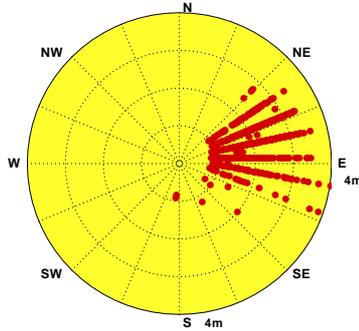
Wave of SAX0 at 2019/11 NO=720(100%)
Hs : MEAN=1.6m MAX=2.4m(ENE,9s)
N-E:51% E-S:49% S-W:0% W-N:0%



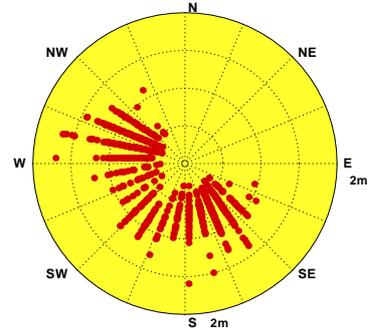
Wave of HLX0 at 2019/11 NO=720(100%)
Hs : MEAN=1.7m MAX=3.3m(ENE,10s)
N-E:33% E-S:67% S-W:0% W-N:0%



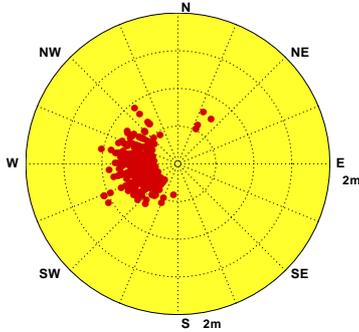
Wave of LTY0 at 2019/11 NO=720(100%)
Hs : MEAN=1.9m MAX=3.9m(E, 9s)
N-E:67% E-S:33% S-W:0% W-N:0%



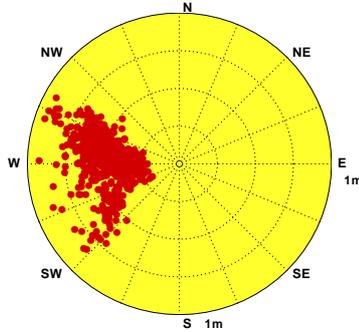
Wave of PNY0 at 2019/11 NO=720(100%)
Hs : MEAN=.8m MAX=1.8m(W, 7s)
N-E:0% E-S:33% S-W:22% W-N:45%



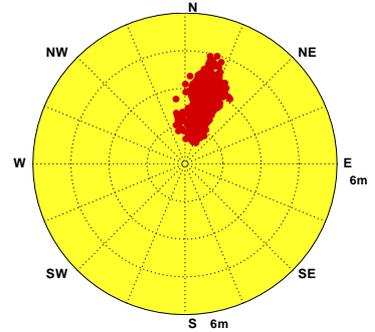
Wave of KHX0 at 2019/11 NO=720(100%)
Hs : MEAN=.6m MAX=1.1m(W,9s)
N-E:1% E-S:0% S-W:71% W-N:28%



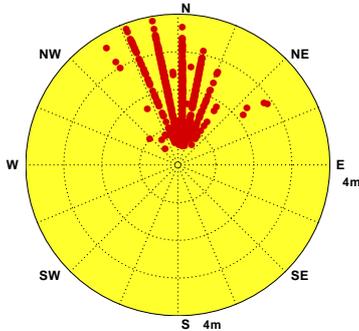
Wave of CNX0 at 2019/11 NO=720(100%)
Hs : MEAN=.5m MAX=.9m(W, 13s)
N-E:0% E-S:0% S-W:46% W-N:54%



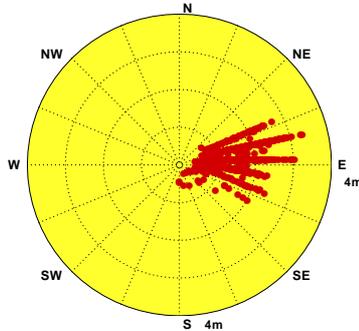
Wave of TCX0 at 2019/11 NO=720(100%)
Hs : MEAN=2.2m MAX=4.2m(NNE,10s)
N-E:96% E-S:0% S-W:0% W-N:4%



Wave of PHY0 at 2019/11 NO=720(100%)
Hs : MEAN=1.8m MAX=3.8m(NNW,7s)
N-E:61% E-S:0% S-W:0% W-N:39%



Wave of KMY0 at 2019/11 NO=720(100%)
Hs : MEAN=1.4m MAX=3.2m(ENE,7s)
N-E:44% E-S:55% S-W:1% W-N:0%



Wave of MSY0 at 2019/11 NO=720(100%)
Hs : MEAN=2.2m MAX=5.0m(ENE,7s)
N-E:77% E-S:23% S-W:0% W-N:0%

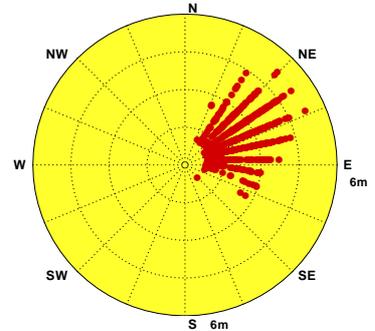


圖4.12b 2019年11月12海域主要測站1修補後波高向量分佈圖

V19BTPX0.1HA V19BKLX0.1HA V19BSAX0.1HA V19BHLX0.1HA V19BLTY0.1HA V19BPNY0.1HA
V19BKHX0.1HA V19BCNX0.1HA V19BTCX0.1HA V19BPHY0.1HA V19BKMY0.1HA V19BMSY0.1HA

Institute of Harbor & Marine Technology

第五章 2019 年 12 海域波浪**主要測站 2** 修補前後波浪統計量統計表

(北苗海域)

(北端海域)

(宜蘭海域)

(花蓮海域)

(臺東海域)

(屏東海域)

(高雄海域)

(嘉南海域)

(中雲海域)

(澎湖海域)

(金門海域)

(馬祖海域)

表5.1a 2018年12月12個海域主要測站2修補前示性波高週期及波向重要統計量統計表

海域 (測站)	波高 蒐集率	H_s 平均 (m)	H_s 最大 (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/%
北苗(Y)	88%	1.69	4.1/ 7.3/N	5.3	7.3	15.5	28.7	49.2	6.6	77.5	22.5	.0	.0	88%	84.7	.0	.5	14.9	N /70%
北端(Y)	83%	1.71	4.3/ 7.9/ENE	6.2	8.3	2.7	40.2	49.8	7.3	39.4	60.3	.3	.0	83%	73.5	26.3	.2	.0	ENE/49%
宜蘭(Y)	87%	1.61	3.6/ 8.2/NE	6.3	8.5	.0	43.8	52.6	3.6	26.5	72.1	1.4	.0	87%	81.3	18.6	.0	.2	NE /40%
花蓮(Y)	88%	1.72	3.7/ 6.8/NNE	6.3	8.2	.3	40.3	51.5	7.8	24.1	75.8	.2	.0	88%	85.4	12.7	1.2	.6	NNE/44%
臺東(X)	99%	.44	1.2/ 7.3/NW	6.7	11.1	71.3	28.7	.0	.0	33.9	39.2	22.4	4.6	99%	.0	1.8	46.2	52.0	NW /26%
屏東(Z)	89%	.84	1.8/ 5.5/SE	5.3	8.0	10.8	88.5	.8	.0	71.1	28.8	.2	.0	89%	11.8	84.2	3.6	.3	SE /53%
高雄(Z)	77%	.85	1.6/ 4.7/W	4.6	5.9	16.2	82.1	1.7	.0	100.0	.0	.0	.0	77%	.5	.5	16.6	82.4	NW /42%
嘉南(A)	0																		
中雲(Y)	0																		
澎湖(X)	100%	.74	1.9/10.0/SE	8.0	11.1	30.2	65.9	3.9	.0	16.5	27.3	47.2	9.0	100%	.0	98.4	1.6	.0	SE /61%
金門(X)	0																		
馬祖(X)	99%	.80	1.9/ 8.0/NE	7.5	12.7	32.3	64.1	3.5	.0	18.6	41.6	33.0	6.8	99%	100.0	.0	.0	.0	NE /82%

表5.1b 2018年12月12個海域主要測站2修補後示性波高週期及波向重要統計量統計表

海域 (測站)	波高 蒐集	H_s 平均	H_s 最大 (波高/週期/波向)	T_p 平均	T_p 最大	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	波向 N~E	波向 E~S	波向 S~W	波向 W~N	主波向 (百分比) 來向/%
	率	(m)	(m/s/來向)	(s)	(s)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	率	(%)	(%)	(%)	(%)	來向/%
北苗(Y)	100%	1.59	4.1/ 7.3/N	5.2	7.3	14.9	34.8	44.4	5.9	79.8	20.2	.0	.0	100%	77.7	.3	.4	21.6	N /71%
北端(Y)	100%	1.68	4.3/ 7.9/ENE	6.2	8.3	2.3	42.9	48.5	6.3	38.3	61.4	.3	.0	100%	69.8	30.1	.1	.0	ENE/43%
宜蘭(Y)	100%	1.59	3.6/ 8.2/NE	6.4	8.5	.0	46.6	50.1	3.2	24.5	74.3	1.2	.0	100%	82.0	17.9	.0	.1	NE /39%
花蓮(Y)	100%	1.70	3.7/ 6.8/NNE	6.3	8.2	.3	42.6	50.3	6.9	21.9	78.0	.1	.0	100%	86.2	12.2	1.1	.5	NNE/41%
臺東(X)	100%	.44	1.2/ 7.3/NW	6.7	11.1	71.4	28.6	.0	.0	33.7	39.4	22.3	4.6	100%	.0	1.7	46.5	51.7	NW /26%
屏東(Z)	100%	.86	1.8/ 5.5/SE	5.3	8.0	9.5	89.8	.7	.0	73.3	26.6	.1	.0	100%	10.5	79.6	9.7	.3	SE /49%
高雄(Z)	100%	.84	1.6/ 4.7/W	4.6	5.9	13.0	85.1	1.9	.0	100.0	.0	.0	.0	100%	.4	.4	13.0	86.2	NW /45%
嘉南(A)	100%	.50	1.1/ 7.0/ENE	6.8	7.7	50.1	49.9	.0	.0	.3	99.7	.0	.0	100%	5.4	21.5	73.1	.0	SSW/49%
中雲(Y)	100%	3.05	6.9/ 7.0/NE	5.8	8.5	12.4	10.8	25.8	51.1	56.5	40.2	3.4	.0	100%	99.5	.0	.0	.5	NNE/62%
澎湖(X)	100%	.74	1.9/10.0/SE	8.0	11.1	30.2	65.9	3.9	.0	16.5	27.3	47.2	9.0	100%	.0	98.4	1.6	.0	SE /61%
金門(X)	100%	1.18	2.4/ 8.2/ESE	7.1	8.5	1.5	73.8	24.7	.0	.0	98.9	1.1	.0	100%	.1	98.4	1.5	.0	ESE/86%
馬祖(X)	100%	.79	1.9/ 8.0/NE	7.5	12.7	32.3	64.2	3.5	.0	18.8	41.0	33.5	6.7	100%	100.0	.0	.0	.0	NE /82%

表5.2a 2019年1月12個海域主要測站2修補前示性波高週期及波向重要統計量統計表

海域 (測站)	波高 蒐集	H_s 平均	H_s 最大 (波高/週期/波向)	T_p 平均	T_p 最大	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	波向 N~E	波向 E~S	波向 S~W	波向 W~N	主波向 (百分比)
	率	(m)	(m/s/來向)	(s)	(s)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	率	(%)	(%)	(%)	(%)	來向/%
北苗(Y)	97%	1.53	3.6/ 6.9/N	5.2	7.3	3.3	52.0	43.3	1.4	92.1	7.9	.0	.0	97%	82.9	.0	.0	17.1	N /68%
北端(Y)	38%	1.71	3.6/ 7.5/ENE	6.0	7.5	.0	42.7	54.9	2.4	47.2	52.8	.0	.0	38%	76.2	23.8	.0	.0	ENE/57%
宜蘭(Y)	95%	1.46	3.3/ 7.0/ENE	6.0	8.2	.0	57.9	41.1	1.0	43.8	55.8	.4	.0	95%	76.1	23.9	.0	.0	ENE/36%
花蓮(Y)	99%	1.39	2.9/ 6.6/NNE	6.0	7.5	.0	61.0	39.0	.0	49.6	50.4	.0	.0	99%	86.3	13.2	.1	.4	NNE/43%
臺東(X)	99%	.49	1.0/ 6.4/NW	7.1	12.0	59.8	40.2	.0	.0	27.8	32.8	38.8	.7	99%	.0	4.1	63.6	32.4	SSW/28%
屏東(Z)	96%	.85	2.0/ 7.3/SSE	5.7	8.1	4.4	93.2	2.4	.0	56.5	43.2	.3	.0	96%	5.2	89.6	2.8	2.4	SE /61%
高雄(Z)	81%	.83	1.7/ 4.9/NW	4.6	5.7	5.8	93.5	.7	.0	100.0	.0	.0	.0	81%	.2	3.5	33.7	62.6	NW /29%
嘉南(A)	0																		
中雲(Y)	0																		
澎湖(X)	100%	.72	1.9/ 9.2/SE	8.0	10.3	17.2	81.5	1.3	.0	7.8	36.0	54.7	1.5	100%	.0	99.9	.1	.0	SE /57%
金門(X)	0																		
馬祖(X)	99%	.65	1.4/ 7.2/NE	7.0	14.9	37.1	62.9	.0	.0	26.8	51.1	16.8	5.3	99%	100.0	.0	.0	.0	NE /80%

表5.2b 2019年 1月12個海域主要測站2修補後示性波高週期及波向重要統計量統計表

海域 (測站)	波高 蒐集	H_s 平均	H_s 最大 (波高/週期/波向)	T_p 平均	T_p 最大	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	波向 N~E	波向 E~S	波向 S~W	波向 W~N	主波向 (百分比) 來向/%
	率	(m)	(m/s/來向)	(s)	(s)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	率	(%)	(%)	(%)	(%)	
北苗(Y)	100%	1.52	3.6/ 6.9/N	5.2	7.3	3.5	52.2	43.0	1.3	92.3	7.7	.0	.0	100%	83.1	.0	.0	16.9	N /67%
北端(Y)	100%	1.51	3.6/ 7.5/ENE	5.9	7.5	.0	57.4	41.7	.9	59.7	40.3	.0	.0	100%	50.0	50.0	.0	.0	E /42%
宜蘭(Y)	100%	1.46	3.3/ 7.0/ENE	6.0	8.2	.0	58.1	41.0	.9	43.5	56.0	.4	.0	100%	76.9	23.1	.0	.0	ENE/36%
花蓮(Y)	100%	1.39	2.9/ 6.6/NNE	5.9	7.5	.0	61.2	38.8	.0	50.0	50.0	.0	.0	100%	86.2	13.3	.1	.4	NNE/43%
臺東(X)	100%	.49	1.0/ 6.4/NW	7.1	12.0	59.8	40.2	.0	.0	27.8	32.5	39.0	.7	100%	.0	4.0	63.8	32.1	SSW/28%
屏東(Z)	100%	.85	2.0/ 7.3/SSE	5.7	8.1	4.4	93.1	2.4	.0	57.5	42.2	.3	.0	100%	5.1	89.8	2.7	2.4	SE /61%
高雄(Z)	100%	.81	1.7/ 4.9/NW	4.6	5.7	4.8	94.6	.5	.0	100.0	.0	.0	.0	100%	.1	2.8	27.6	69.5	NW /28%
嘉南(A)	100%	.43	.7/ 7.9/SE	7.6	7.9	78.5	21.5	.0	.0	.3	99.7	.0	.0	100%	4.2	95.8	.0	.0	ESE/50%
中雲(Y)	100%	2.50	5.1/ 6.7/SW	5.7	7.4	2.6	14.2	50.5	32.7	66.1	33.9	.0	.0	100%	1.7	.0	98.3	.0	SW /79%
澎湖(X)	100%	.72	1.9/ 9.2/SE	8.0	10.3	17.2	81.5	1.3	.0	7.8	36.0	54.7	1.5	100%	.0	99.9	.1	.0	SE /57%
金門(X)	100%	1.03	2.1/ 7.9/E	6.9	8.0	.0	90.7	9.3	.0	2.2	97.6	.3	.0	100%	3.0	97.0	.0	.0	ESE/57%
馬祖(X)	100%	.65	1.4/ 7.2/NE	7.0	14.9	37.2	62.8	.0	.0	26.7	51.3	16.7	5.2	100%	100.0	.0	.0	.0	NE /80%

5-4

表5.3a 2019年2月12個海域主要測站2修補前示性波高週期及波向重要統計量統計表

海域 (測站)	波高 蒐集	H_s 平均	H_s 最大 (波高/週期/波向)	T_p 平均	T_p 最大	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	波向 N~E	波向 E~S	波向 S~W	波向 W~N	主波向 (百分比) 來向/%
	率	(m)	(m/s/來向)	(s)	(s)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	率	(%)	(%)	(%)	(%)	
北苗(Y)	97%	1.25	2.7/ 7.5/N	5.2	7.5	9.2	59.0	31.7	.0	89.7	10.3	.0	.0	97%	87.3	.0	1.4	11.3	N /67%
北端(Y)	11%	1.24	2.5/ 7.7/NE	5.9	7.7	1.4	69.9	28.8	.0	52.1	47.9	.0	.0	11%	74.0	26.0	.0	.0	ENE/52%
宜蘭(Y)	96%	1.17	2.1/ 5.8/ENE	6.0	8.3	.0	88.2	11.8	.0	44.5	54.8	.6	.0	96%	77.9	21.7	.5	.0	NE /36%
花蓮(Y)	98%	1.13	2.4/ 6.3/NNE	6.1	8.9	1.7	85.3	13.0	.0	42.3	56.8	.9	.0	98%	91.7	8.3	.0	.0	NNE/41%
臺東(X)	100%	.50	1.5/ 6.0/SSW	6.8	14.4	66.5	33.4	.1	.0	35.0	38.0	18.9	8.0	100%	.0	5.4	75.7	18.9	SSW/32%
屏東(Z)	97%	.67	1.6/ 5.7/SE	5.8	10.9	25.4	74.3	.3	.0	71.1	20.5	7.5	.9	97%	3.2	90.5	4.6	1.7	SE /57%
高雄(Z)	77%	.69	1.3/ 4.9/S	4.3	5.7	23.4	76.6	.0	.0	100.0	.0	.0	.0	77%	1.2	2.1	30.4	66.3	NW /30%
嘉南(A)	0																		
中雲(Y)	0																		
澎湖(X)	100%	.60	1.8/ 6.2/SSE	7.7	12.8	38.1	60.7	1.2	.0	15.8	37.4	40.8	6.1	100%	.0	99.0	1.0	.0	SE /50%
金門(X)	0																		
馬祖(X)	61%	.62	1.8/ 8.4/NE	7.3	13.2	31.9	67.6	.5	.0	15.5	59.5	20.4	4.7	61%	100.0	.0	.0	.0	NE /84%

表5.3b 2019年2月12個海域主要測站2修補後示性波高週期及波向重要統計量統計表

海域 (測站)	波高 蒐集	H_s 平均	H_s 最大 (波高/週期/波向)	T_p 平均	T_p 最大	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	波向 N~E	波向 E~S	波向 S~W	波向 W~N	主波向 (百分比) 來向/%
北苗(Y)	100%	1.25	2.7/ 7.5/N	5.2	7.5	8.9	59.7	31.4	.0	90.0	10.0	.0	.0	100%	85.7	.0	1.3	12.9	N /67%
北端(Y)	100%	1.20	2.2/ 6.0/NE	6.1	7.7	.1	89.6	10.3	.0	53.9	46.1	.0	.0	100%	28.7	71.1	.0	.1	ESE/42%
宜蘭(Y)	100%	1.17	2.1/ 5.8/ENE	6.0	8.3	.0	87.5	12.5	.0	44.2	55.2	.6	.0	100%	78.0	21.6	.4	.0	NE /36%
花蓮(Y)	100%	1.14	2.4/ 6.3/NNE	6.1	8.9	1.6	84.7	13.7	.0	42.3	56.8	.9	.0	100%	91.8	8.2	.0	.0	NNE/42%
臺東(X)	100%	.50	1.5/ 6.0/SSW	6.8	14.4	66.4	33.5	.1	.0	35.0	37.9	19.0	8.0	100%	.0	5.4	75.7	18.9	SSW/32%
屏東(Z)	100%	.67	1.6/ 5.7/SE	5.8	10.9	25.0	74.7	.3	.0	70.1	21.6	7.4	.9	100%	3.1	90.3	4.9	1.6	SE /57%
高雄(Z)	100%	.69	1.3/ 4.9/S	4.3	5.7	20.1	79.9	.0	.0	100.0	.0	.0	.0	100%	.9	1.6	24.9	72.6	NW /32%
嘉南(A)	100%	.38	.6/ 6.5/WNW	6.3	7.4	93.3	6.7	.0	.0	36.8	63.2	.0	.0	100%	12.6	6.4	.0	81.0	WNW/41%
中雲(Y)	100%	2.27	5.3/ 7.0/NE	5.8	8.2	10.0	18.5	42.9	28.7	55.8	43.8	.4	.0	100%	99.4	.0	.0	.6	NE /58%
澎湖(X)	100%	.60	1.8/ 6.2/SSE	7.7	12.8	38.1	60.7	1.2	.0	15.8	37.4	40.8	6.1	100%	.0	99.0	1.0	.0	SE /50%
金門(X)	100%	.92	2.0/ 8.0/ESE	6.7	8.0	6.7	91.1	2.2	.0	.4	99.4	.1	.0	100%	.1	99.9	.0	.0	ESE/55%
馬祖(X)	100%	.66	1.8/ 8.4/NE	7.7	13.2	20.4	79.3	.3	.0	9.5	40.0	47.6	2.8	100%	99.9	.1	.0	.0	NE /71%

表5.4a 2019年3月12個海域主要測站2修補前示性波高週期及波向重要統計量統計表

海域 (測站)	波高 蒐集	H_s 平均	H_s 最大 (波高/週期/波向)	T_p 平均	T_p 最大	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	波向 N~E	波向 E~S	波向 S~W	波向 W~N	主波向 (百分比) 來向/%
	率	(m)	(m/s/來向)	(s)	(s)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	率	(%)	(%)	(%)	(%)	
北苗(Y)	74%	1.05	2.5/ 6.4/N	4.7	7.9	4.8	79.2	16.1	.0	96.0	4.0	.0	.0	74%	72.0	.2	8.0	19.7	N /52%
北端(Y)	27%	1.11	2.7/ 7.3/ENE	5.5	7.5	10.9	66.2	22.9	.0	72.6	27.4	.0	.0	27%	53.2	43.3	2.0	1.5	ENE/26%
宜蘭(Y)	98%	1.17	2.3/ 7.7/NE	5.8	8.4	.0	80.2	19.8	.0	61.7	37.9	.4	.0	98%	68.9	31.0	.0	.1	NE /33%
花蓮(Y)	100%	1.10	2.7/ 6.3/NNE	5.8	7.6	2.4	78.6	19.0	.0	63.5	36.5	.0	.0	100%	78.7	20.2	.8	.3	NNE/32%
臺東(X)	99%	.54	1.8/ 5.2/SSW	5.8	10.9	61.4	38.2	.4	.0	53.9	38.6	6.6	.8	99%	.3	6.9	68.8	24.0	SSW/28%
屏東(Z)	98%	.71	1.5/ 6.5/SE	5.2	8.3	16.0	84.0	.0	.0	76.6	23.3	.1	.0	98%	8.6	82.2	8.6	.5	SE /59%
高雄(Z)	78%	.60	1.6/ 4.7/SSW	4.2	5.6	36.4	63.2	.3	.0	100.0	.0	.0	.0	78%	.2	2.2	25.3	72.3	NW /34%
嘉南(A)	0																		
中雲(Y)	0																		
澎湖(X)	100%	.53	1.9/ 8.8/SE	6.6	10.1	56.9	41.9	1.2	.0	37.2	44.0	18.7	.1	100%	.0	99.5	.5	.0	SE /44%
金門(X)	0																		
馬祖(X)	98%	.52	1.5/ 7.8/NE	6.8	11.5	60.4	39.5	.1	.0	22.4	57.5	19.1	1.0	98%	100.0	.0	.0	.0	NE /74%

表5.4b 2019年3月12個海域主要測站2修補後示性波高週期及波向重要統計量統計表

海域 (測站)	波高 蒐集	H_s 平均	H_s 最大 (波高/週期/波向)	T_p 平均	T_p 最大	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	波向 N~E	波向 E~S	波向 S~W	波向 W~N	主波向 (百分比)
	率	(m)	(m/s/來向)	(s)	(s)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	率	(%)	(%)	(%)	(%)	來向/%
北苗(Y)	100%	1.01	2.5/ 6.4/N	4.7	7.9	5.9	80.2	13.8	.0	96.9	3.1	.0	.0	100%	76.6	.3	6.3	16.8	N /43%
北端(Y)	100%	1.20	2.7/ 7.3/ENE	5.8	7.5	3.0	79.0	18.0	.0	61.4	38.6	.0	.0	100%	41.3	57.8	.5	.4	E /45%
宜蘭(Y)	100%	1.17	2.3/ 7.7/NE	5.8	8.4	.0	80.5	19.5	.0	62.0	37.6	.4	.0	100%	69.0	30.8	.0	.3	NE /33%
花蓮(Y)	100%	1.10	2.7/ 6.3/NNE	5.8	7.6	2.4	78.5	19.1	.0	63.6	36.4	.0	.0	100%	78.8	20.2	.8	.3	NNE/33%
臺東(X)	100%	.54	1.8/ 5.2/SSW	5.8	10.9	61.7	37.9	.4	.0	53.8	38.8	6.6	.8	100%	1.1	6.9	68.3	23.8	SSW/28%
屏東(Z)	100%	.71	1.5/ 6.5/SE	5.2	8.3	15.9	84.1	.0	.0	77.0	22.8	.1	.0	100%	8.6	82.1	8.7	.5	SE /58%
高雄(Z)	100%	.60	1.6/ 4.7/SSW	4.2	5.6	34.7	65.1	.3	.0	100.0	.0	.0	.0	100%	.1	1.7	23.0	75.1	NW /34%
嘉南(A)	100%	.38	.9/ 7.0/W	6.6	7.0	86.7	13.3	.0	.0	.8	99.2	.0	.0	100%	.0	.0	16.9	83.1	WNW/51%
中雲(Y)	100%	1.29	2.8/ 6.2/NNE	5.0	25.5	6.7	59.4	33.9	.0	90.7	9.1	.0	.1	100%	81.6	4.2	4.2	10.1	NNE/59%
澎湖(X)	100%	.53	1.9/ 8.8/SE	6.6	10.1	56.9	41.9	1.2	.0	37.2	44.0	18.7	.1	100%	.0	99.5	.5	.0	SE /44%
金門(X)	100%	.86	1.9/ 7.8/ESE	6.7	8.5	2.3	93.3	4.4	.0	7.1	91.8	1.1	.0	100%	1.3	98.3	.4	.0	ESE/60%
馬祖(X)	100%	.52	1.5/ 7.8/NE	6.8	11.5	60.3	39.5	.1	.0	22.3	57.8	19.0	.9	100%	100.0	.0	.0	.0	NE /74%

表5.5a 2019年4月12個海域主要測站2修補前示性波高週期及波向重要統計量統計表

海域 (測站)	波高 蒐集	H_s 平均	H_s 最大 (波高/週期/波向)	T_p 平均	T_p 最大	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	波向 N~E	波向 E~S	波向 S~W	波向 W~N	主波向 (百分比)
	率	(m)	(m/s/來向)	(s)	(s)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	率	(%)	(%)	(%)	(%)	來向/%
北苗(Y)	96%	.87	2.2/ 6.1/NNW	4.4	6.4	29.6	58.3	12.1	.0	98.4	1.6	.0	.0	96%	52.1	.0	19.5	28.4	N /44%
北端(Y)	97%	.90	2.5/ 6.6/NE	5.6	7.6	23.7	60.8	15.5	.0	72.2	27.8	.0	.0	97%	54.4	39.6	3.6	2.4	NE /20%
宜蘭(Y)	97%	.96	2.1/ 6.4/ENE	5.6	7.4	8.7	77.4	13.9	.0	70.2	29.8	.0	.0	97%	50.0	50.0	.0	.0	E /24%
花蓮(Y)	100%	.86	2.2/ 5.4/NNE	5.5	7.1	18.8	71.5	9.7	.0	74.6	25.4	.0	.0	100%	79.7	18.1	1.3	1.0	NE /29%
臺東(X)	100%	.48	1.9/ 5.0/SSW	5.7	8.6	72.6	26.0	1.4	.0	50.9	46.9	2.2	.0	100%	.0	5.8	73.3	20.9	SSW/26%
屏東(Z)	99%	.53	1.0/ 5.7/SE	4.9	6.9	44.1	55.9	.0	.0	90.1	9.9	.0	.0	99%	6.3	75.2	15.1	3.4	SE /52%
高雄(Z)	79%	.47	1.2/ 4.5/NW	4.1	5.8	58.2	41.8	.0	.0	100.0	.0	.0	.0	79%	.0	2.8	39.7	57.5	NW /27%
嘉南(A)	0																		
中雲(Y)	0																		
澎湖(X)	62%	.42	1.4/ 8.7/ESE	6.8	9.8	68.4	31.6	.0	.0	34.3	41.3	24.4	.0	62%	.7	96.4	2.9	.0	SE /43%
金門(X)	0																		
馬祖(X)	89%	.44	1.4/ 5.5/NE	6.8	11.0	61.8	38.2	.0	.0	20.0	56.3	22.8	.8	89%	99.2	.3	.0	.5	NE /68%

表5.5b 2019年4月12個海域主要測站2修補後示性波高週期及波向重要統計量統計表

海域 (測站)	波高 蒐集	H_s 平均	H_s 最大 (波高/週期/波向)	T_p 平均	T_p 最大	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	波向 N~E	波向 E~S	波向 S~W	波向 W~N	主波向 (百分比)
	率	(m)	(m/s/來向)	(s)	(s)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	率	(%)	(%)	(%)	(%)	來向/%
北苗(Y)	100%	.86	2.2/ 6.1/NNW	4.4	6.4	29.9	57.9	12.2	.0	98.5	1.5	.0	.0	100%	51.0	.0	20.3	28.8	N /43%
北端(Y)	100%	.90	2.5/ 6.6/NE	5.6	7.6	23.8	61.0	15.3	.0	72.5	27.5	.0	.0	100%	53.8	40.1	3.6	2.5	NE /20%
宜蘭(Y)	100%	.95	2.1/ 6.4/ENE	5.6	7.4	8.9	77.5	13.6	.0	70.6	29.4	.0	.0	100%	49.7	50.3	.0	.0	E /24%
花蓮(Y)	100%	.86	2.2/ 5.4/NNE	5.5	7.1	18.8	71.5	9.7	.0	74.6	25.4	.0	.0	100%	79.7	18.1	1.3	1.0	NE /29%
臺東(X)	100%	.48	1.9/ 5.0/SSW	5.7	8.6	72.6	26.0	1.4	.0	50.8	46.9	2.2	.0	100%	.0	5.8	73.3	20.8	SSW/26%
屏東(Z)	100%	.53	1.0/ 5.7/SE	4.9	6.9	44.4	55.6	.0	.0	90.3	9.7	.0	.0	100%	6.4	75.3	15.0	3.3	SE /52%
高雄(Z)	100%	.50	1.2/ 4.5/NW	4.2	5.8	53.9	46.1	.0	.0	100.0	.0	.0	.0	100%	.4	2.8	40.1	56.7	NW /23%
嘉南(A)	100%	.32	.5/ 8.7/WNW	4.5	8.7	100.0	.0	.0	.0	79.0	16.9	4.0	.0	100%	.0	.0	47.8	52.2	W /47%
中雲(Y)	100%	1.05	3.1/ 5.4/NNE	4.6	12.3	40.1	30.4	29.3	.1	99.9	.0	.0	.1	100%	62.6	.1	21.4	15.8	NNE/49%
澎湖(X)	100%	.38	1.4/ 8.7/ESE	6.1	9.8	76.8	23.2	.0	.0	52.2	32.5	15.3	.0	100%	1.8	72.4	22.4	3.5	SE /28%
金門(X)	100%	.70	1.6/ 6.9/ESE	6.4	7.8	35.0	64.3	.7	.0	25.0	75.0	.0	.0	100%	.1	96.5	3.2	.1	ESE/39%
馬祖(X)	100%	.43	1.4/ 5.5/NE	6.9	11.0	65.8	34.2	.0	.0	17.8	58.6	22.9	.7	100%	99.3	.3	.0	.4	NE /67%

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表5.6a 2019年5月12個海域主要測站2修補前示性波高週期及波向重要統計量統計表

海域 (測站)	波高 蒐集率	H_s 平均 (m)	H_s 最大 (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/%
北苗(Y)	94%	.80	2.7/ 6.2/N	4.5	6.6	26.1	65.0	8.9	.0	97.1	2.9	.0	.0	94%	63.8	.0	11.3	24.9	N /51%
北端(Y)	98%	.96	2.8/ 6.7/NNE	5.7	8.5	10.7	77.0	12.3	.0	65.8	34.0	.1	.0	98%	59.4	35.5	2.1	3.0	NE /22%
宜蘭(Y)	96%	.89	2.3/ 6.5/NE	5.7	7.9	10.2	83.8	6.0	.0	64.6	35.4	.0	.0	96%	66.1	33.8	.0	.1	ENE/39%
花蓮(Y)	99%	.79	2.1/ 4.9/NNE	5.7	8.3	19.2	77.1	3.7	.0	61.5	37.8	.7	.0	99%	83.5	13.6	1.8	1.1	NE /29%
臺東(X)	100%	.38	1.5/ 4.7/SW	5.6	12.4	88.7	11.0	.3	.0	62.7	32.3	1.1	3.9	100%	.5	1.6	67.3	30.6	SW /28%
屏東(Z)	97%	.63	1.4/ 4.4/SW	5.0	8.9	31.3	68.7	.0	.0	88.4	11.3	.3	.0	97%	6.1	59.0	34.8	.1	SE /37%
高雄(Z)	77%	.59	1.4/ 4.4/S	4.6	5.8	40.8	59.2	.0	.0	100.0	.0	.0	.0	77%	.0	.3	59.9	39.7	SW /20%
嘉南(A)	80%	.50	1.9/ 3.3/SSE	6.6	10.1	57.4	42.4	.2	.0	26.4	52.5	20.7	.3	80%	1.2	75.8	8.6	14.5	ESE/54%
中雲(Y)	0																		
澎湖(X)	96%	.48	1.9/ 4.8/ssw	6.2	10.2	65.8	33.1	1.1	.0	49.1	39.3	11.2	.4	96%	18.4	46.4	27.8	7.4	SSE/12%
金門(X)	0																		
馬祖(X)	100%	.46	1.5/ 8.4/NE	7.3	12.5	67.8	32.2	.0	.0	25.0	40.3	22.8	11.9	100%	100.0	.0	.0	.0	NE /74%

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表5.6b 2019年5月12個海域主要測站2修補後示性波高週期及波向重要統計量統計表

海域 (測站)	波高 蒐集率	H_s 平均 (m)	H_s 最大 (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/%
北苗(Y)	100%	.80	2.7/ 6.2/N	4.5	6.6	27.3	64.2	8.5	.0	97.3	2.7	.0	.0	100%	61.3	.0	10.6	28.1	N /49%
北端(Y)	100%	.96	2.8/ 6.7/NNE	5.7	8.5	10.9	76.7	12.4	.0	65.1	34.8	.1	.0	100%	59.8	35.1	2.2	3.0	NE /22%
宜蘭(Y)	100%	.89	2.3/ 6.5/NE	5.7	7.9	9.8	84.4	5.8	.0	65.1	34.9	.0	.0	100%	65.9	34.0	.0	.1	ENE/38%
花蓮(Y)	100%	.79	2.1/ 4.9/NNE	5.8	8.3	19.0	77.4	3.6	.0	61.2	38.2	.7	.0	100%	83.7	13.4	1.7	1.1	NE /29%
臺東(X)	100%	.38	1.5/ 4.7/SW	5.6	12.4	88.7	11.0	.3	.0	62.6	32.4	1.1	3.9	100%	.5	1.6	67.3	30.5	SW /28%
屏東(Z)	100%	.63	1.4/ 4.4/SW	5.0	8.9	31.3	68.7	.0	.0	88.7	11.0	.3	.0	100%	5.9	58.3	35.6	.1	SE /37%
高雄(Z)	100%	.61	1.4/ 4.4/S	4.6	6.1	36.8	63.2	.0	.0	99.7	.3	.0	.0	100%	.0	.7	60.5	38.8	SW /24%
嘉南(A)	100%	.46	1.9/ 3.3/SSE	6.5	10.1	64.4	35.5	.1	.0	28.0	55.2	16.5	.3	100%	.9	60.5	12.0	26.6	ESE/43%
中雲(Y)	100%	1.21	4.2/ 4.5/N	4.3	4.5	19.5	51.7	24.3	4.4	100.0	.0	.0	.0	100%	61.7	.0	6.5	31.9	N /58%
澎湖(X)	100%	.48	1.9/ 4.8/SSW	6.2	10.2	65.2	33.7	1.1	.0	49.7	39.1	10.8	.4	100%	17.9	48.4	26.6	7.1	SSE/13%
金門(X)	100%	.80	1.9/ 7.5/ESE	6.4	8.2	10.9	87.2	1.9	.0	33.6	62.2	4.2	.0	100%	.1	94.8	4.7	.4	ESE/65%
馬祖(X)	100%	.46	1.5/ 8.4/NE	7.3	12.5	67.9	32.1	.0	.0	25.1	40.3	22.7	11.8	100%	100.0	.0	.0	.0	NE /74%

表5.7a 2019年6月12個海域主要測站2修補前示性波高週期及波向重要統計量統計表

海域 (測站)	波高 蒐集	H_s 平均	H_s 最大 (波高/週期/波向)	T_p 平均	T_p 最大	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	波向 N~E	波向 E~S	波向 S~W	波向 W~N	主波向 (百分比)
	率	(m)	(m/s/來向)	(s)	(s)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	率	(%)	(%)	(%)	(%)	來向/%
北苗(Y)	84%	.62	1.4/ 4.2/WSW	4.0	6.7	33.6	66.4	.0	.0	99.5	.5	.0	.0	84%	27.2	.0	33.3	39.5	WSW/32%
北端(Y)	90%	.54	1.8/ 6.5/NNE	5.1	7.3	53.0	46.4	.6	.0	89.5	10.5	.0	.0	90%	49.9	42.5	4.5	3.1	E /16%
宜蘭(Y)	89%	.60	1.4/ 5.2/E	5.2	7.6	32.0	68.0	.0	.0	87.4	12.6	.0	.0	89%	29.8	70.2	.0	.0	ESE/30%
花蓮(Y)	91%	.49	1.1/ 5.6/NE	5.2	7.2	58.7	41.3	.0	.0	86.3	13.7	.0	.0	91%	62.3	36.1	1.2	.3	NE /26%
臺東(X)	98%	.67	1.8/ 5.2/SW	5.1	8.6	39.2	56.5	4.3	.0	68.6	28.1	3.3	.0	98%	.1	.7	92.5	6.7	SW /44%
屏東(Z)	89%	.75	2.3/ 5.8/S	5.0	7.8	25.7	69.6	4.7	.0	87.3	12.7	.0	.0	89%	.3	20.2	77.6	1.9	SSW/29%
高雄(Z)	77%	.71	1.7/ 6.4/SSW	4.7	6.6	30.5	67.5	2.0	.0	94.2	5.8	.0	.0	77%	.2	1.6	85.4	12.8	SW /32%
嘉南(A)	100%	.48	1.0/ 9.4/WSW	6.0	17.0	57.9	42.1	.0	.0	44.2	42.8	12.8	.1	100%	.1	.0	83.7	16.2	WSW/51%
中雲(Y)	0																		
澎湖(X)	99%	.48	1.4/ 4.9/SSE	5.9	9.3	57.6	42.4	.0	.0	57.6	37.1	5.3	.0	99%	2.9	82.1	13.6	1.4	SSE/56%
金門(X)	0																		
馬祖(X)	98%	.29	.9/ 6.3/NE	5.8	10.1	87.3	12.7	.0	.0	48.7	39.5	11.7	.1	98%	98.7	1.0	.0	.3	NE /61%

表5.7b 2019年6月12個海域主要測站2修補後示性波高週期及波向重要統計量統計表

海域 (測站)	波高 蒐集	H_s 平均	H_s 最大 (波高/週期/波向)	T_p 平均	T_p 最大	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	波向 N~E	波向 E~S	波向 S~W	波向 W~N	主波向 (百分比) 來向/%
北苗(Y)	100%	.67	2.2/ 4.8/NNW	4.0	6.7	31.5	67.5	1.0	.0	99.6	.4	.0	.0	100%	23.8	.0	36.3	40.0	WSW/30%
北端(Y)	100%	.57	1.9/ 5.3/ENE	5.1	7.3	50.1	48.5	1.4	.0	90.6	9.4	.0	.0	100%	49.9	43.1	4.2	2.9	E /19%
宜蘭(Y)	100%	.58	1.4/ 5.2/E	5.1	7.6	36.3	63.8	.0	.0	88.6	11.4	.0	.0	100%	31.3	68.8	.0	.0	ESE/30%
花蓮(Y)	100%	.47	1.1/ 5.6/NE	5.2	7.2	62.4	37.6	.0	.0	87.5	12.5	.0	.0	100%	64.2	34.4	1.1	.3	ENE/26%
臺東(X)	100%	.67	1.8/ 5.2/SW	5.1	8.6	38.6	57.2	4.2	.0	68.9	27.9	3.2	.0	100%	.1	.8	92.5	6.5	SW /44%
屏東(Z)	100%	.74	2.3/ 5.8/S	5.0	7.8	23.3	72.2	4.4	.0	88.3	11.7	.0	.0	100%	.3	19.3	78.8	1.7	SSW/27%
高雄(Z)	100%	.71	1.7/ 6.4/SSW	4.7	6.6	25.7	72.8	1.5	.0	95.0	5.0	.0	.0	100%	.1	1.3	88.5	10.1	WSW/33%
嘉南(A)	100%	.48	1.0/ 9.4/WSW	6.0	17.0	57.9	42.1	.0	.0	44.3	42.8	12.8	.1	100%	.1	.0	83.5	16.4	WSW/51%
中雲(Y)	100%	.64	1.8/ 4.6/NNE	4.1	5.4	38.8	57.6	3.6	.0	100.0	.0	.0	.0	100%	29.7	.7	57.9	11.7	WSW/28%
澎湖(X)	100%	.47	1.4/ 4.9/SSE	5.8	9.3	57.9	42.1	.0	.0	57.9	36.8	5.3	.0	100%	3.1	81.8	13.8	1.4	SSE/55%
金門(X)	100%	.86	1.6/ 7.2/ESE	5.6	8.7	5.8	93.8	.4	.0	48.5	49.0	2.5	.0	100%	.0	90.4	9.6	.0	SSE/33%
馬祖(X)	100%	.29	.9/ 6.3/NE	5.8	10.5	87.4	12.6	.0	.0	48.3	39.2	12.1	.4	100%	98.2	1.0	.6	.3	NE /61%

表5.8a 2019年7月12個海域主要測站2修補前示性波高週期及波向重要統計量統計表

海域 (測站)	波高 蒐集	H_s 平均	H_s 最大 (波高/週期/波向)	T_p 平均	T_p 最大	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	波向 N~E	波向 E~S	波向 S~W	波向 W~N	主波向 (百分比) 來向/%
	率	(m)	(m/s/來向)	(s)	(s)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	率	(%)	(%)	(%)	(%)	
北苗(Y)	84%	.67	2.1/ 5.3/NNE	4.0	5.9	40.1	58.1	1.8	.0	100.0	.0	.0	.0	84%	15.9	.0	43.0	41.1	WSW/41%
北端(Y)	86%	.56	2.3/ 6.8/NE	5.0	8.0	64.2	30.5	5.3	.0	85.4	14.5	.2	.0	86%	40.3	50.9	7.2	1.6	E /21%
宜蘭(Y)	83%	.66	2.1/ 7.1/ESE	5.1	8.5	53.1	37.7	9.2	.0	82.0	17.8	.2	.0	83%	12.0	87.7	.0	.3	ESE/46%
花蓮(Y)	86%	.49	2.1/ 6.9/NE	5.3	8.5	74.1	22.3	3.6	.0	84.3	15.1	.6	.0	86%	46.1	49.4	3.0	1.6	E /30%
臺東(X)	100%	.89	3.8/ 8.4/SW	5.9	12.3	37.2	45.0	17.0	.8	56.7	23.3	16.8	3.1	100%	.8	.7	89.5	9.0	SW /59%
屏東(Z)	85%	1.28	5.6/ 8.2/SSE	5.7	8.8	18.4	50.2	27.0	4.4	67.3	31.1	1.6	.0	85%	.0	15.9	82.9	1.3	SSW/38%
高雄(Z)	61%	1.20	3.3/ 7.3/SSW	5.4	8.8	12.4	56.2	30.9	.4	72.2	26.9	.9	.0	61%	.0	.4	94.2	5.3	SW /45%
嘉南(A)	85%	.80	2.0/10.3/WSW	7.7	12.6	18.1	78.4	3.5	.0	6.5	53.7	33.0	6.8	85%	.0	.0	89.4	10.6	WSW/66%
中雲(Y)	0																		
澎湖(X)	100%	.82	3.4/ 9.0/SSE	7.1	11.0	31.0	59.6	8.9	.5	24.2	49.1	23.4	3.2	100%	.0	93.8	6.2	.0	SSE/57%
金門(X)	0																		
馬祖(X)	99%	.26	.9/ 6.8/NE	6.8	14.2	89.3	10.7	.0	.0	43.1	27.4	17.8	11.8	99%	98.1	.9	.0	.9	NE /45%

表5.8b 2019年7月12個海域主要測站2修補後示性波高週期及波向重要統計量統計表

海域 (測站)	波高 蒐集	H_s 平均	H_s 最大 (波高/週期/波向)	T_p 平均	T_p 最大	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	波向 N~E	波向 E~S	波向 S~W	波向 W~N	主波向 (百分比) 來向/%
	率	(m)	(m/s/來向)	(s)	(s)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	率	(%)	(%)	(%)	(%)	來向/%
北苗(Y)	100%	.68	2.1/ 5.3/NNE	4.0	5.9	38.3	59.5	2.2	.0	100.0	.0	.0	.0	100%	13.3	.0	48.5	38.2	WSW/45%
北端(Y)	100%	.56	2.3/ 5.4/ESE	5.1	8.0	59.9	35.2	4.8	.0	81.7	18.1	.1	.0	100%	35.8	56.6	6.3	1.3	E /20%
宜蘭(Y)	100%	.63	2.2/ 5.7/SSE	5.2	8.5	57.7	34.1	8.2	.0	81.0	18.8	.1	.0	100%	14.4	84.8	.5	.3	ESE/43%
花蓮(Y)	100%	.47	2.1/ 6.9/NE	5.3	8.5	76.7	20.2	3.1	.0	82.7	16.8	.5	.0	100%	41.3	54.8	2.6	1.3	E /29%
臺東(X)	100%	.89	3.8/ 8.4/SW	5.9	12.3	37.1	45.2	16.9	.8	56.9	23.3	16.8	3.1	100%	.8	.8	89.4	9.0	SW /59%
屏東(Z)	100%	1.27	5.6/ 8.2/SSE	5.7	8.8	15.7	55.1	25.4	3.8	68.0	30.6	1.3	.0	100%	.0	14.7	84.3	1.1	SSW/45%
高雄(Z)	100%	1.22	3.4/ 6.8/SSW	5.5	8.8	10.3	59.3	29.8	.5	75.4	24.1	.5	.0	100%	.0	.3	95.8	3.9	SW /51%
嘉南(A)	100%	.75	2.0/10.3/WSW	7.8	12.6	26.3	70.7	3.0	.0	5.6	49.5	37.5	7.4	100%	.0	.0	91.0	9.0	WSW/60%
中雲(Y)	100%	.61	2.7/ 5.1/NNE	4.1	5.8	37.8	60.1	2.2	.0	100.0	.0	.0	.0	100%	12.0	.5	78.6	8.9	SW /50%
澎湖(X)	100%	.82	3.4/ 9.0/SSE	7.1	11.0	30.9	59.7	8.9	.5	24.2	49.2	23.4	3.2	100%	.0	93.8	6.2	.0	SSE/57%
金門(X)	100%	.98	2.3/ 9.4/E	6.8	10.0	1.1	92.3	6.6	.0	12.0	77.2	10.8	.1	100%	.0	98.0	2.0	.0	SSE/40%
馬祖(X)	100%	.26	.9/ 6.8/NE	6.8	14.2	89.4	10.6	.0	.0	43.3	27.4	17.6	11.7	100%	98.1	.9	.0	.9	NE /45%

表5.9a 2019年8月12個海域主要測站2修補前示性波高週期及波向重要統計量統計表

海域 (測站)	波高 蒐集	H_s 平均	H_s 最大 (波高/週期/波向)	T_p 平均	T_p 最大	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	波向 N~E	波向 E~S	波向 S~W	波向 W~N	主波向 (百分比) 來向/%
	率	(m)	(m/s/來向)	(s)	(s)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	率	(%)	(%)	(%)	(%)	
北苗(Y)	92%	.77	2.7/ 6.1/NNW	4.6	6.4	26.4	66.7	6.9	.0	97.4	2.6	.0	.0	92%	34.9	.0	31.9	33.2	WSW/30%
北端(Y)	93%	.97	5.1/ 9.8/SE	6.1	10.4	25.3	57.8	14.0	2.9	57.0	28.2	13.8	1.0	93%	43.7	49.8	2.9	3.6	E /18%
宜蘭(Y)	92%	.99	4.4/11.0/NE	6.2	11.9	20.7	63.6	11.7	4.0	48.6	38.3	11.5	1.6	92%	39.6	60.1	.1	.1	ESE/28%
花蓮(Y)	95%	.86	3.8/ 9.5/ENE	6.1	9.9	27.1	60.6	10.6	1.7	49.3	43.9	6.8	.0	95%	65.0	33.1	1.4	.6	ENE/36%
臺東(X)	100%	.91	4.0/ 6.3/SW	7.9	13.4	19.7	65.9	12.4	2.0	12.9	38.5	35.4	13.2	100%	.1	.0	98.9	.9	SW /69%
屏東(Z)	92%	1.55	5.3/ 7.4/SW	6.7	9.8	.0	58.9	35.4	5.7	27.8	58.3	13.8	.0	92%	.0	16.0	83.8	.1	SSW/35%
高雄(Z)	67%	1.50	4.3/ 6.7/SSW	6.1	8.9	2.4	54.4	39.2	4.0	46.4	49.6	4.0	.0	67%	.0	.4	94.4	5.2	SW /57%
嘉南(A)	0																		
中雲(Y)	0																		
澎湖(X)	72%	.99	2.6/ 7.3/s	8.2	11.4	3.5	84.0	12.5	.0	4.5	37.0	48.9	9.7	72%	.0	95.4	4.6	.0	SSE/48%
金門(X)	0																		
馬祖(X)	83%	.51	2.3/13.3/NE	8.0	14.6	59.3	38.4	2.3	.0	29.0	28.0	15.2	27.7	83%	99.8	.0	.0	.2	NE /66%

表5.9b 2019年8月12個海域主要測站2修補後示性波高週期及波向重要統計量統計表

海域 (測站)	波高 蒐集	H_s 平均	H_s 最大 (波高/週期/波向)	T_p 平均	T_p 最大	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	波向 N~E	波向 E~S	波向 S~W	波向 W~N	主波向 (百分比) 來向/%
	率	(m)	(m/s/來向)	(s)	(s)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	率	(%)	(%)	(%)	(%)	來向/%
北苗(Y)	100%	.79	2.7/ 6.1/NNW	4.7	6.5	25.0	67.6	7.4	.0	95.2	4.8	.0	.0	100%	32.7	.0	35.2	32.1	WSW/33%
北端(Y)	100%	.99	5.1/ 9.8/SE	6.2	10.4	24.1	56.9	16.4	2.7	55.1	29.7	14.1	1.1	100%	41.3	52.7	2.7	3.4	E /17%
宜蘭(Y)	100%	1.00	4.4/11.0/NE	6.2	11.9	19.8	64.8	11.2	4.3	46.2	41.0	11.3	1.5	100%	41.5	57.9	.4	.1	ENE/29%
花蓮(Y)	100%	.87	3.8/ 9.5/ENE	6.1	9.9	25.9	62.4	10.1	1.6	47.0	46.5	6.5	.0	100%	64.2	33.9	1.3	.5	ENE/35%
臺東(X)	100%	.91	4.0/ 6.3/SW	7.9	13.4	19.6	65.9	12.5	2.0	13.0	38.4	35.3	13.2	100%	.1	.0	98.9	.9	SW /69%
屏東(Z)	100%	1.61	5.3/ 7.4/SW	6.6	9.8	.0	55.9	36.7	7.4	26.7	60.3	12.9	.0	100%	.0	16.1	83.7	.1	SSW/34%
高雄(Z)	100%	1.57	4.3/ 6.7/SSW	6.2	8.9	2.8	49.2	42.9	5.1	41.5	53.0	5.5	.0	100%	.3	.3	94.8	4.7	SW /53%
嘉南(A)	100%	.84	2.3/10.6/WSW	9.5	11.9	10.1	85.2	4.7	.0	.4	12.1	40.9	46.6	100%	.0	2.2	82.7	15.2	WSW/57%
中雲(Y)	100%	.86	3.1/ 5.1/NNE	4.4	6.6	25.1	60.6	14.1	.1	99.3	.7	.0	.0	100%	34.9	.0	55.1	9.9	SW /34%
澎湖(X)	100%	.94	3.1/ 9.1/S	8.0	11.4	9.8	78.6	11.4	.1	4.8	44.4	43.8	7.0	100%	.0	85.9	13.8	.3	s /47%
金門(X)	100%	1.27	4.5/ 9.1/SSE	7.0	9.8	.0	79.3	18.3	2.4	7.8	82.1	10.1	.0	100%	17.9	81.0	1.1	.0	SE /27%
馬祖(X)	100%	.48	2.3/13.3/NE	8.1	14.6	64.5	33.6	1.9	.0	24.5	24.6	26.1	24.9	100%	99.7	.1	.0	.1	NE /63%

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表5.10a 2019年9月12個海域主要測站2修補前示性波高週期及波向重要統計量統計表

海域 (測站)	波高 H_s		H_s 最大 (m/s/來向)	T_p (s)	T_p (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/%
	蒐集	平均																	
北苗(Y)	79%	1.09	3.6/ 6.5/N	5.2	7.5	9.7	68.8	20.5	.9	84.6	15.4	.0	.0	79%	79.1	.0	1.1	19.8	N /64%
北端(Y)	79%	1.44	6.8/10.4/NE	6.3	10.4	4.0	60.6	25.7	9.7	50.3	35.3	14.2	.2	79%	69.9	26.9	1.9	1.2	NE /32%
宜蘭(Y)	69%	1.30	5.7/ 8.7/NNE	6.5	10.4	1.8	71.2	22.1	4.8	40.0	43.3	16.5	.2	69%	67.6	32.4	.0	.0	NE /28%
花蓮(Y)	79%	1.35	5.0/ 7.7/NE	6.4	10.6	1.4	67.7	23.5	7.4	43.2	44.3	12.3	.2	79%	82.9	16.8	.4	.0	NE /34%
臺東(X)	31%	.81	1.8/ 8.5/SSW	8.4	11.9	20.0	76.4	3.6	.0	10.0	18.2	60.0	11.8	31%	.0	.0	97.3	2.7	SW /66%
屏東(Z)	74%	.98	3.0/ 7.0/SSW	6.1	11.2	23.3	53.5	22.9	.2	47.9	45.7	5.2	1.1	74%	3.4	39.9	55.4	1.3	SSW/26%
高雄(Z)	58%	.95	2.1/ 7.3/SW	5.3	7.8	7.7	76.4	15.9	.0	74.0	26.0	.0	.0	58%	.5	.7	53.1	45.7	SSW/22%
嘉南(A)	0																		
中雲(Y)	0																		
澎湖(X)	0																		
金門(X)	0																		
馬祖(X)	98%	.65	1.5/ 9.7/NE	7.3	15.1	30.5	69.2	.3	.0	38.9	17.2	20.6	23.3	98%	100.0	.0	.0	.0	NE /64%

5-19

表5.10b 2019年9月12個海域主要測站2修補後示性波高週期及波向重要統計量統計表

海域 (測站)	波高 蒐集	H_s 平均	H_s 最大 (波高/週期/波向)	T_p 平均	T_p 最大	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	波向 N~E	波向 E~S	波向 S~W	波向 W~N	主波向 (百分比) 來向/%
	率	(m)	(m/s/來向)	(s)	(s)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	率	(%)	(%)	(%)	(%)	來向/%
北苗(Y)	100%	1.12	3.6/ 6.5/N	5.1	7.5	8.3	68.8	22.2	.7	87.9	12.1	.0	.0	100%	76.3	.0	.8	22.9	N /60%
北端(Y)	100%	1.54	6.8/10.4/NE	6.2	10.4	3.2	54.4	32.5	9.9	52.5	36.1	11.3	.1	100%	75.3	22.2	1.5	1.0	ENE/36%
宜蘭(Y)	100%	1.35	5.7/ 8.7/NNE	6.4	10.4	1.3	67.5	27.4	3.9	33.9	54.0	11.9	.1	100%	75.6	24.4	.0	.0	NE /35%
花蓮(Y)	100%	1.42	5.0/ 7.7/NE	6.3	10.6	1.1	62.9	30.1	5.8	52.2	37.9	9.7	.1	100%	86.5	13.2	.3	.0	NNE/32%
臺東(X)	100%	.84	1.9/11.4/SSE	7.5	12.8	6.1	90.8	3.1	.0	12.2	50.1	31.0	6.7	100%	.0	11.3	87.9	.8	SSW/37%
屏東(Z)	100%	1.09	3.0/ 7.0/SSW	6.1	11.2	18.3	52.9	28.6	.1	50.3	44.2	4.7	.8	100%	2.6	32.5	63.9	1.0	SSW/37%
高雄(Z)	100%	1.06	2.1/ 7.3/SW	5.4	7.8	5.4	74.3	20.3	.0	71.9	28.1	.0	.0	100%	.3	.4	61.5	37.8	SW /21%
嘉南(A)	100%	.65	1.4/ 7.9/WNW	7.4	11.6	24.3	75.7	.0	.0	.0	78.9	13.9	7.2	100%	14.3	43.5	.3	41.9	E /29%
中雲(Y)	100%	1.54	4.6/ 5.7/NNE	5.1	8.0	1.5	52.8	40.0	5.7	90.4	9.4	.1	.0	100%	86.5	.0	9.3	4.2	NNE/52%
澎湖(X)	100%	.69	1.4/ 8.6/SW	7.2	9.4	18.3	81.7	.0	.0	4.6	74.0	21.4	.0	100%	.0	75.7	24.2	.1	SE /46%
金門(X)	100%	1.10	1.9/ 7.8/ESE	7.8	13.8	.0	88.9	11.1	.0	.1	63.5	31.7	4.7	100%	.1	99.0	.4	.4	ESE/52%
馬祖(X)	100%	.65	1.5/ 9.7/NE	7.3	15.1	30.8	68.9	.3	.0	38.9	17.4	20.7	23.1	100%	99.7	.3	.0	.0	NE /64%

5-20

表5.11a 2019年10月12個海域主要測站2修補前示性波高週期及波向重要統計量統計表

海域 (測站)	波高 H_s		H_s 最大	T_p	T_p	小波	小浪	中浪	大浪	T_p	T_p	T_p	T_p	波向	波向	波向	波向	波向	主波向
	蒐集	平均	(波高/週期/波向)	平均	最大	<0.5m	~1.5m	~3m	>3m	<6s	6~8s	8~10s	>10s	蒐集	N~E	E~S	S~W	W~N	(百分比)
	率	(m)	(m/s/來向)	(s)	(s)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	率	(%)	(%)	(%)	(%)	來向/%
北苗(Y)	93%	1.14	3.1/ 6.2/N	4.7	6.6	12.0	64.7	23.2	.1	97.7	2.3	.0	.0	93%	83.6	.0	3.2	13.3	N /72%
北端(Y)	94%	1.35	5.6/ 9.9/ENE	6.1	10.5	8.1	56.9	33.0	2.0	46.9	50.1	2.9	.1	94%	86.0	13.8	.0	.1	NE /42%
宜蘭(Y)	89%	1.22	3.1/10.5/E	6.2	10.5	6.3	66.3	27.3	.2	40.5	56.2	3.2	.2	89%	82.1	17.9	.0	.0	NE /41%
花蓮(Y)	94%	1.24	3.0/ 6.7/NNE	6.0	9.1	6.1	64.5	29.2	.1	50.4	48.9	.7	.0	94%	86.7	10.7	2.1	.4	NE /44%
臺東(X)	0																		
屏東(Z)	84%	.58	1.9/ 5.0/SW	5.4	9.9	43.5	56.0	.5	.0	78.8	18.0	3.2	.0	84%	11.2	62.8	19.6	6.4	SSE/29%
高雄(Z)	71%	.62	2.1/ 5.0/NW	4.4	5.7	30.3	68.8	1.0	.0	100.0	.0	.0	.0	71%	.2	1.1	14.7	84.0	NW /43%
嘉南(A)	83%	.53	1.2/ 9.1/W	7.1	11.1	49.5	50.5	.0	.0	19.8	42.3	36.1	1.8	83%	.0	.0	7.6	92.4	WNW/52%
中雲(Y)	0																		
澎湖(X)	0																		
金門(X)	0																		
馬祖(X)	99%	.65	1.7/10.8/NE	8.1	16.3	28.5	71.2	.3	.0	21.1	31.9	25.0	22.0	99%	100.0	.0	.0	.0	NE /67%

5-21

表5.11b 2019年10月12個海域主要測站2修補後示性波高週期及波向重要統計量統計表

海域 (測站)	波高 蒐集	H_s 平均	H_s 最大 (波高/週期/波向)	T_p 平均	T_p 最大	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	波向 N~E	波向 E~S	波向 S~W	波向 W~N	主波向 (百分比) 來向/%
	率	(m)	(m/s/來向)	(s)	(s)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	率	(%)	(%)	(%)	(%)	來向/%
北苗(Y)	100%	1.13	3.1/ 6.2/N	4.7	6.6	11.2	67.1	21.6	.1	97.8	2.2	.0	.0	100%	84.0	.0	3.0	13.0	N /69%
北端(Y)	100%	1.38	5.6/ 9.9/ENE	6.0	10.5	7.7	54.3	36.2	1.9	46.8	50.4	2.7	.1	100%	84.0	15.9	.0	.1	NE /39%
宜蘭(Y)	100%	1.24	3.1/10.5/E	6.2	10.5	6.3	63.7	29.8	.1	38.4	58.5	2.8	.3	100%	83.2	16.8	.0	.0	NE /38%
花蓮(Y)	100%	1.27	3.0/ 6.7/NNE	6.0	9.1	5.8	62.0	32.1	.1	48.5	50.8	.7	.0	100%	87.5	10.1	2.0	.4	NE /47%
臺東(X)	100%	.33	.5/14.5/WSW	7.0	14.7	99.7	.3	.0	.0	38.0	47.3	7.5	7.1	100%	75.9	.0	21.6	2.4	ENE/51%
屏東(Z)	100%	.62	2.0/ 5.8/SE	5.4	9.9	37.6	61.7	.7	.0	79.4	17.7	2.8	.0	100%	10.2	61.8	22.4	5.5	SE /30%
高雄(Z)	100%	.66	2.1/ 5.0/NW	4.5	6.8	26.5	72.7	.8	.0	99.2	.8	.0	.0	100%	1.9	26.1	10.6	61.4	NW /32%
嘉南(A)	100%	.50	1.2/ 9.1/W	6.9	11.1	56.0	44.0	.0	.0	25.0	41.3	32.3	1.5	100%	.9	1.7	7.4	89.9	WNW/53%
中雲(Y)	100%	2.27	5.5/ 7.0/N	5.6	8.2	11.3	16.0	40.7	32.0	62.5	36.4	1.1	.0	100%	95.7	.0	.0	4.3	NNE/85%
澎湖(X)	100%	.63	1.7/ 7.9/NNW	6.6	9.4	35.1	64.7	.3	.0	22.0	75.0	3.0	.0	100%	.0	23.7	4.3	72.0	NNW/49%
金門(X)	100%	1.00	2.3/ 7.7/ESE	6.8	11.1	8.2	85.3	6.5	.0	6.6	90.6	2.7	.1	100%	.5	91.5	7.7	.3	ESE/78%
馬祖(X)	100%	.65	1.7/10.8/NE	8.1	16.3	28.8	71.0	.3	.0	21.2	32.1	24.9	21.8	100%	100.0	.0	.0	.0	NE /67%

5-22

表5.12a 2019年11月12個海域主要測站2修補前示性波高週期及波向重要統計量統計表

海域 (測站)	波高 蒐集	H_s 平均	H_s 最大 (波高/週期/波向)	T_p 平均	T_p 最大	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	波向 N~E	波向 E~S	波向 S~W	波向 W~N	主波向 (百分比) 來向/%
	率	(m)	(m/s/來向)	(s)	(s)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	率	(%)	(%)	(%)	(%)	
北苗(Y)	99%	1.56	3.3/ 6.2/N	5.0	6.8	4.2	40.0	54.8	1.0	94.5	5.5	.0	.0	99%	89.6	.0	.0	10.4	N /67%
北端(Y)	100%	1.71	3.8/ 7.6/NE	6.1	9.0	1.0	40.7	54.2	4.2	45.3	53.3	1.4	.0	100%	76.9	22.9	.0	.1	ENE/40%
宜蘭(Y)	99%	1.55	3.0/ 6.6/NE	6.4	8.8	.1	46.7	53.2	.0	26.6	69.0	4.3	.0	99%	82.2	17.8	.0	.0	NE /40%
花蓮(Y)	100%	1.65	4.0/ 7.0/NNE	6.4	9.0	.0	44.7	53.5	1.8	29.9	66.7	3.5	.0	100%	89.3	10.4	.3	.0	NE /40%
臺東(X)	0																		
屏東(Z)	84%	.87	1.9/ 5.7/SSW	5.7	9.3	7.3	90.7	2.0	.0	59.1	37.3	3.6	.0	84%	12.9	58.4	28.0	.7	SE /30%
高雄(Z)	76%	.76	1.3/ 5.7/NW	4.7	7.3	8.0	92.0	.0	.0	95.8	4.2	.0	.0	76%	.7	.2	16.9	82.2	NW /39%
嘉南(A)	0																		
中雲(Y)	0																		
澎湖(X)	0																		
金門(X)	0																		
馬祖(X)	99%	.82	1.7/ 9.2/NE	7.3	15.1	21.7	76.9	1.4	.0	22.5	35.9	35.3	6.3	99%	100.0	.0	.0	.0	NE /55%

5-23

表5.12b 2019年11月12個海域主要測站2修補後示性波高週期及波向重要統計量統計表

海域 (測站)	波高 蒐集	H_s 平均	H_s 最大 (波高/週期/波向)	T_p 平均	T_p 最大	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	波向 N~E	波向 E~S	波向 S~W	波向 W~N	主波向 (百分比) 來向/%
	率	(m)	(m/s/來向)	(s)	(s)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	率	(%)	(%)	(%)	(%)	來向/%
北苗(Y)	100%	1.56	3.3/ 6.2/N	5.0	6.8	4.2	40.0	54.9	1.0	94.4	5.6	.0	.0	100%	89.6	.0	.0	10.4	N /67%
北端(Y)	100%	1.71	3.8/ 7.6/NE	6.1	9.0	1.0	40.7	54.2	4.2	45.3	53.3	1.4	.0	100%	76.9	22.9	.0	.1	ENE/40%
宜蘭(Y)	100%	1.55	3.0/ 6.6/NE	6.5	8.8	.1	46.8	53.1	.0	26.5	69.2	4.3	.0	100%	82.4	17.6	.0	.0	NE /40%
花蓮(Y)	100%	1.65	4.0/ 7.0/NNE	6.4	9.0	.0	44.7	53.5	1.8	29.9	66.7	3.5	.0	100%	89.3	10.4	.3	.0	NE /40%
臺東(X)	100%	.39	.5/12.1/SSW	7.1	12.1	99.7	.3	.0	.0	7.1	74.4	15.6	2.9	100%	66.7	.0	33.1	.3	ENE/56%
屏東(Z)	100%	.90	1.8/ 5.6/ENE	5.7	9.3	6.1	91.9	1.9	.0	60.3	36.7	3.1	.0	100%	11.9	61.4	26.1	.6	SE /30%
高雄(Z)	100%	.78	1.3/ 5.7/NW	4.7	7.3	6.3	93.8	.0	.0	95.3	4.7	.0	.0	100%	.6	.1	13.2	86.1	NW /44%
嘉南(A)	100%	.38	.6/14.6/SE	8.8	14.8	92.9	7.1	.0	.0	10.4	25.8	35.4	28.3	100%	54.1	45.9	.0	.0	ENE/36%
中雲(Y)	100%	3.21	6.6/ 7.2/NNE	5.8	7.3	.1	15.4	26.8	57.6	51.7	48.3	.0	.0	100%	99.7	.0	.0	.3	NNE/83%
澎湖(X)	100%	.85	1.8/ 9.1/NNW	7.0	9.1	12.4	85.3	2.4	.0	8.9	80.7	10.4	.0	100%	.0	28.5	.6	71.0	NNW/52%
金門(X)	100%	1.20	2.3/ 8.2/ESE	7.2	8.6	.0	78.6	21.4	.0	1.3	91.4	7.4	.0	100%	.1	99.3	.6	.0	ESE/65%
馬祖(X)	100%	.82	1.7/ 9.2/NE	7.3	15.1	21.7	76.9	1.4	.0	22.8	35.7	35.1	6.4	100%	100.0	.0	.0	.0	NE /55%

5-24

表 5.13a 2019 年冬季 12 個海域主要測站 2 修補前示性波高週期及波向重要統計量統計表

海域 (測站)	波高 蒐集	H_s 平均	H_s 最大 (波高/週期/波向)	T_p 平均	T_p 最大	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	波向 N~E	波向 E~S	波向 S~W	波向 W~N	主波向 (百分比)
	率	(m)	(m/s/來向)	(s)	(s)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	率	(%)	(%)	(%)	(%)	來向/%
北苗(Y)	94%	1.49	4.1/ 7.3/N	5.2	7.5	9.1	46.8	41.5	2.6	86.6	13.4	.0	.0	94%	84.9	.0	.6	14.5	N /68%
北端(Y)	45%	1.67	4.3/ 7.9/ENE	6.1	8.3	1.8	43.1	49.7	5.3	42.6	57.2	.2	.0	45%	74.3	25.6	.1	.0	ENE/51%
宜蘭(Y)	93%	1.41	3.6/ 8.2/NE	6.1	8.5	.0	63.1	35.4	1.5	38.4	60.8	.8	.0	93%	78.3	21.5	.2	.1	NE /37%
花蓮(Y)	95%	1.41	3.7/ 6.8/NNE	6.1	8.9	.6	62.3	34.6	2.5	39.1	60.5	.3	.0	95%	87.7	11.5	.4	.3	NNE/43%
臺東(X)	99%	.47	1.5/ 6.0/SSW	6.9	14.4	65.8	34.1	.0	.0	32.1	36.6	26.9	4.3	99%	.0	3.7	61.4	34.9	SSW/25%
屏東(Z)	94%	.79	2.0/ 7.3/SSE	5.6	10.9	13.2	85.6	1.2	.0	66.0	31.2	2.6	.3	94%	6.7	88.1	3.7	1.5	SE /57%
高雄(Z)	78%	.79	1.7/ 4.9/NW	4.5	5.9	14.7	84.5	.8	.0	100.0	.0	.0	.0	78%	.6	2.1	26.9	70.5	NW /34%
嘉南(A)	0																		
中雲(Y)	0																		
澎湖(X)	100%	.69	1.9/ 9.2/SE	7.9	12.8	28.2	69.6	2.2	.0	13.3	33.4	47.8	5.5	100%	.0	99.1	.9	.0	SE /56%
金門(X)	0																		
馬祖(X)	87%	.70	1.9/ 8.0/NE	7.2	14.9	34.1	64.4	1.5	.0	21.1	49.2	23.9	5.8	87%	100.0	.0	.0	.0	NE /82%

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表5.13b 2019年冬季12個海域主要測站2修補後示性波高週期及波向重要統計量統計表

海域 (測站)	波高 蒐集	H_s 平均	H_s 最大 (波高/週期/波向)	T_p 平均	T_p 最大	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	波向 N~E	波向 E~S	波向 S~W	波向 W~N	主波向 (百分比)
	率	(m)	(m/s/來向)	(s)	(s)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	率	(%)	(%)	(%)	(%)	來向/%
北苗(Y)	100%	1.46	4.1/ 7.3/N	5.2	7.5	9.1	48.5	39.9	2.5	87.3	12.7	.0	.0	100%	82.0	.1	.6	17.3	N /68%
北端(Y)	100%	1.47	4.3/ 7.9/ENE	6.1	8.3	.8	62.4	34.3	2.5	50.5	49.4	.1	.0	100%	50.2	49.7	.0	.0	E /36%
宜蘭(Y)	100%	1.42	3.6/ 8.2/NE	6.1	8.5	.0	63.3	35.3	1.4	37.2	62.1	.7	.0	100%	79.0	20.8	.1	.0	NE /37%
花蓮(Y)	100%	1.42	3.7/ 6.8/NNE	6.1	8.9	.6	62.1	35.0	2.4	37.9	61.8	.3	.0	100%	87.9	11.3	.4	.3	NNE/42%
臺東(X)	100%	.47	1.5/ 6.0/SSW	6.9	14.4	65.8	34.1	.0	.0	32.1	36.6	27.0	4.3	100%	.0	3.7	61.6	34.8	SSW/25%
屏東(Z)	100%	.80	2.0/ 7.3/SSE	5.6	10.9	12.6	86.3	1.2	.0	66.9	30.4	2.5	.3	100%	6.3	86.4	5.8	1.4	SE /56%
高雄(Z)	100%	.78	1.7/ 4.9/NW	4.5	5.9	12.4	86.8	.8	.0	100.0	.0	.0	.0	100%	.5	1.6	21.7	76.2	NW /35%
嘉南(A)	100%	.44	1.1/ 7.0/ENE	6.9	7.9	73.3	26.7	.0	.0	11.6	88.4	.0	.0	100%	7.2	42.4	25.2	25.2	ESE/23%
中雲(Y)	100%	2.62	6.9/ 7.0/NE	5.8	8.5	8.2	14.4	39.6	37.8	59.6	39.1	1.3	.0	100%	65.8	.0	33.8	.4	NNE/34%
澎湖(X)	100%	.69	1.9/ 9.2/SE	7.9	12.8	28.2	69.6	2.2	.0	13.3	33.4	47.8	5.5	100%	.0	99.1	.9	.0	SE /56%
金門(X)	100%	1.05	2.4/ 8.2/ESE	6.9	8.5	2.6	85.0	12.4	.0	.9	98.6	.5	.0	100%	1.1	98.4	.5	.0	ESE/66%
馬祖(X)	100%	.70	1.9/ 8.0/NE	7.4	14.9	30.3	68.4	1.3	.0	18.7	44.3	32.1	5.0	100%	100.0	.0	.0	.0	NE /78%

表 5.14a 2019年春季12個海域主要測站2修補前示性波高週期及波向重要統計量統計表

海域 (測站)	波高 蒐集率	H_s 平均 (m)	H_s 最大 (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/%
北苗(Y)	88%	.90	2.7/ 6.2/N	4.5	7.9	21.3	66.6	12.1	.0	97.3	2.7	.0	.0	88%	61.9	.1	13.3	24.7	N /49%
北端(Y)	74%	.95	2.8/ 6.7/NNE	5.6	8.5	16.3	68.7	15.0	.0	69.4	30.5	.1	.0	74%	56.5	38.2	2.7	2.6	NE /21%
宜蘭(Y)	97%	1.01	2.3/ 7.7/NE	5.7	8.4	6.3	80.5	13.3	.0	65.4	34.4	.1	.0	97%	61.8	38.1	.0	.1	ENE/31%
花蓮(Y)	100%	.92	2.7/ 6.3/NNE	5.7	8.3	13.4	75.8	10.8	.0	66.5	33.3	.2	.0	100%	80.7	17.3	1.3	.8	NNE/29%
臺東(X)	100%	.46	1.9/ 5.0/SSW	5.7	12.4	74.3	25.0	.7	.0	55.9	39.2	3.3	1.6	100%	.3	4.8	69.8	25.2	SSW/24%
屏東(Z)	98%	.62	1.5/ 6.5/SE	5.1	8.9	30.3	69.7	.0	.0	85.0	14.9	.1	.0	98%	7.0	72.1	19.5	1.3	SE /49%
高雄(Z)	78%	.55	1.6/ 4.7/SSW	4.3	5.8	45.1	54.8	.1	.0	100.0	.0	.0	.0	78%	.1	1.8	41.6	56.6	NW /26%
嘉南(A)	27%	.50	1.9/ 3.3/SSE	6.6	10.1	57.4	42.4	.2	.0	26.4	52.5	20.7	.3	27%	1.2	75.8	8.6	14.5	ESE/54%
中雲(Y)	0																		
澎湖(X)	86%	.49	1.9/ 4.8/SSW	6.5	10.2	62.9	36.2	.9	.0	41.0	41.6	17.2	.2	86%	7.1	78.8	11.3	2.8	SE /32%
金門(X)	0																		
馬祖(X)	95%	.48	1.5/ 7.8/NE	7.0	12.5	63.4	36.5	.0	.0	22.6	51.1	21.6	4.7	95%	99.8	.1	.0	.1	NE /72%

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表5.14b 2019年春季12個海域主要測站2修補後示性波高週期及波向重要統計量統計表

海域 (測站)	波高 蒐集	H_s 平均	H_s 最大 (波高/週期/波向)	T_p 平均	T_p 最大	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	波向 N~E	波向 E~S	波向 S~W	波向 W~N	主波向 (百分比) 來向/%
	率	(m)	(m/s/來向)	(s)	(s)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	率	(%)	(%)	(%)	(%)	
北苗(Y)	100%	.89	2.7/ 6.2/N	4.5	7.9	20.9	67.6	11.5	.0	97.6	2.4	.0	.0	100%	63.1	.1	12.3	24.5	N /45%
北端(Y)	100%	1.02	2.8/ 6.7/NNE	5.7	8.5	12.4	72.4	15.2	.0	66.3	33.7	.0	.0	100%	51.6	44.4	2.1	1.9	E /23%
宜蘭(Y)	100%	1.01	2.3/ 7.7/NE	5.7	8.4	6.2	80.8	13.0	.0	65.8	34.1	.1	.0	100%	61.6	38.2	.0	.1	ENE/31%
花蓮(Y)	100%	.92	2.7/ 6.3/NNE	5.7	8.3	13.3	75.9	10.8	.0	66.3	33.4	.2	.0	100%	80.8	17.2	1.3	.8	NNE/29%
臺東(X)	100%	.46	1.9/ 5.0/SSW	5.7	12.4	74.4	25.0	.7	.0	55.8	39.3	3.3	1.6	100%	.5	4.8	69.6	25.1	SSW/24%
屏東(Z)	100%	.62	1.5/ 6.5/SE	5.0	8.9	30.4	69.6	.0	.0	85.3	14.6	.1	.0	100%	7.0	71.9	19.8	1.3	SE /49%
高雄(Z)	100%	.57	1.6/ 4.7/SSW	4.3	6.1	41.7	58.2	.1	.0	99.9	.1	.0	.0	100%	.2	1.7	41.2	56.9	NW /25%
嘉南(A)	100%	.39	1.9/ 3.3/SSE	5.9	10.1	83.5	16.4	.0	.0	35.5	57.6	6.9	.1	100%	.3	20.4	25.3	54.0	WNW/32%
中雲(Y)	100%	1.19	4.2/ 4.5/N	4.6	25.5	21.9	47.4	29.2	1.5	96.8	3.1	.0	.1	100%	68.7	1.4	10.6	19.3	NNE/43%
澎湖(X)	100%	.46	1.9/ 4.8/SSW	6.3	10.2	66.2	33.1	.8	.0	46.3	38.6	14.9	.2	100%	6.6	73.4	16.4	3.5	SE /28%
金門(X)	100%	.79	1.9/ 7.8/ESE	6.5	8.5	15.9	81.8	2.4	.0	21.9	76.4	1.8	.0	100%	.5	96.5	2.8	.2	ESE/55%
馬祖(X)	100%	.47	1.5/ 7.8/NE	7.0	12.5	64.7	35.3	.0	.0	21.8	52.2	21.5	4.5	100%	99.8	.1	.0	.1	NE /71%

表 5.15a 2019 年夏季 12 個海域主要測站 2 修補前示性波高週期及波向重要統計量統計表

海域 (測站)	波高 H_s		H_s 最大 (波高/週期/波向)	T_p 平均	T_p 最大	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	波向 N~E	波向 E~S	波向 S~W	波向 W~N	主波向 (百分比)
	蒐集	平均																	
北苗(Y)	87%	.69	2.7/ 6.1/NNW	4.2	6.7	33.2	63.8	3.0	.0	98.9	1.1	.0	.0	87%	26.3	.0	35.9	37.8	WSW/34%
北端(Y)	90%	.70	5.1/ 9.8/SE	5.5	10.4	46.9	45.3	6.8	1.0	76.7	18.0	4.9	.4	90%	44.6	47.8	4.8	2.8	E /18%
宜蘭(Y)	88%	.76	4.4/11.0/NE	5.5	11.9	34.7	56.8	7.1	1.4	72.1	23.3	4.1	.6	88%	27.6	72.2	.1	.2	ESE/35%
花蓮(Y)	91%	.62	3.8/ 9.5/ENE	5.5	9.9	52.5	42.0	4.9	.6	72.6	24.8	2.6	.0	91%	58.1	39.3	1.8	.8	ENE/28%
臺東(X)	99%	.83	4.0/ 6.3/SW	6.3	13.4	31.9	55.8	11.3	1.0	45.7	30.0	18.8	5.5	99%	.4	.5	93.7	5.5	SW /58%
屏東(Z)	89%	1.20	5.6/ 8.2/SSE	5.8	9.8	14.3	59.6	22.7	3.4	60.0	34.6	5.4	.0	89%	.1	17.3	81.5	1.1	SSW/34%
高雄(Z)	68%	1.12	4.3/ 6.7/SSW	5.4	8.9	15.8	59.8	23.0	1.5	71.7	26.7	1.6	.0	68%	.1	.9	91.0	8.0	SW /44%
嘉南(A)	61%	.63	2.0/10.3/WSW	6.8	17.0	39.2	59.1	1.6	.0	26.6	47.9	22.3	3.3	61%	.1	.0	86.4	13.6	WSW/58%
中雲(Y)	0																		
澎湖(X)	90%	.74	3.4/ 9.0/SSE	6.9	11.4	33.1	60.1	6.7	.2	30.8	41.6	23.8	3.8	90%	1.1	90.0	8.4	.5	SSE/54%
金門(X)	0																		
馬祖(X)	93%	.34	2.3/13.3/NE	6.8	14.6	79.6	19.7	.7	.0	40.8	31.7	14.9	12.6	93%	98.8	.7	.0	.5	NE /57%

表5.15b 2019年夏季12個海域主要測站2修補後示性波高週期及波向重要統計量統計表

海域 (測站)	波高 蒐集	H_s 平均	H_s 最大 (波高/週期/波向)	T_p 平均	T_p 最大	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	波向 N~E	波向 E~S	波向 S~W	波向 W~N	主波向 (百分比) 來向/%
	率	(m)	(m/s/來向)	(s)	(s)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	率	(%)	(%)	(%)	(%)	
北苗(Y)	100%	.71	2.7/ 6.1/NNW	4.3	6.7	31.6	64.9	3.5	.0	98.2	1.8	.0	.0	100%	23.2	.0	40.0	36.7	WSW/36%
北端(Y)	100%	.71	5.1/ 9.8/SE	5.5	10.4	44.7	46.8	7.6	.9	75.6	19.2	4.8	.4	100%	42.2	50.9	4.4	2.5	E /19%
宜蘭(Y)	100%	.74	4.4/11.0/NE	5.5	11.9	37.9	54.1	6.5	1.4	71.8	23.9	3.8	.5	100%	29.0	70.5	.3	.1	ESE/33%
花蓮(Y)	100%	.61	3.8/ 9.5/ENE	5.5	9.9	54.9	40.1	4.4	.5	72.2	25.4	2.4	.0	100%	56.5	41.1	1.7	.7	E /27%
臺東(X)	100%	.83	4.0/ 6.3/SW	6.3	13.4	31.7	56.1	11.3	1.0	46.0	29.9	18.6	5.5	100%	.4	.5	93.6	5.5	SW /58%
屏東(Z)	100%	1.21	5.6/ 8.2/SSE	5.8	9.8	12.9	61.0	22.4	3.8	60.7	34.5	4.8	.0	100%	.1	16.7	82.3	1.0	SSW/35%
高雄(Z)	100%	1.17	4.3/ 6.7/SSW	5.5	8.9	12.8	60.3	25.0	1.9	70.4	27.6	2.0	.0	100%	.1	.6	93.1	6.2	SW /46%
嘉南(A)	100%	.69	2.3/10.6/WSW	7.8	17.0	31.2	66.3	2.6	.0	16.5	34.7	30.6	18.3	100%	.0	.7	85.7	13.5	WSW/56%
中雲(Y)	100%	.70	3.1/ 5.1/NNE	4.2	6.6	33.8	59.5	6.7	.0	99.8	.2	.0	.0	100%	25.5	.4	63.9	10.1	SW /37%
澎湖(X)	100%	.75	3.4/ 9.0/SSE	7.0	11.4	32.6	60.3	6.8	.2	28.7	43.5	24.4	3.4	100%	1.0	87.2	11.2	.5	SSE/51%
金門(X)	100%	1.04	4.5/ 9.1/SSE	6.5	10.0	2.3	88.4	8.5	.8	22.5	69.7	7.8	.0	100%	6.0	89.8	4.2	.0	SSE/32%
馬祖(X)	100%	.34	2.3/13.3/NE	6.9	14.6	80.3	19.0	.6	.0	38.6	30.3	18.7	12.5	100%	98.7	.7	.2	.5	NE /56%

5-30

表 5.16a 2019 年秋季 12 個海域主要測站 2 修補前示性波高週期及波向重要統計量統計表

海域 (測站)	波高 H_s		H_s 最大 (波高/週期/波向)	T_p 平均	T_p 最大	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	波向 N~E	波向 E~S	波向 S~W	波向 W~N	主波向 (百分比) 來向/%
	蒐集	平均																	
北苗(Y)	90%	1.28	3.6/ 6.5/N	5.0	7.5	8.5	56.9	33.9	.7	92.8	7.2	.0	.0	90%	84.5	.0	1.4	14.1	N /68%
北端(Y)	91%	1.51	6.8/10.4/NE	6.1	10.5	4.4	52.1	38.5	5.0	47.3	47.0	5.6	.1	91%	78.1	20.9	.6	.5	NE /37%
宜蘭(Y)	86%	1.37	5.7/ 8.7/NNE	6.4	10.5	2.8	60.1	35.8	1.3	35.1	57.6	7.2	.1	86%	78.3	21.7	.0	.0	NE /37%
花蓮(Y)	91%	1.42	5.0/ 7.7/NE	6.2	10.6	2.6	58.2	36.4	2.8	40.9	54.0	5.0	.1	91%	86.6	12.3	1.0	.2	NE /39%
臺東(X)	10%	.81	1.8/ 8.5/SSW	8.4	11.9	20.0	76.4	3.6	.0	10.0	18.2	60.0	11.8	10%	.0	.0	97.3	2.7	SW /66%
屏東(Z)	81%	.80	3.0/ 7.0/SSW	5.7	11.2	25.0	67.2	7.8	.1	62.7	33.0	4.0	.3	81%	9.4	54.3	33.4	2.9	SE /26%
高雄(Z)	68%	.76	2.1/ 7.3/SW	4.8	7.8	15.8	79.5	4.8	.0	91.2	8.8	.0	.0	68%	.5	.7	26.2	72.6	NW /35%
嘉南(A)	28%	.53	1.2/ 9.1/W	7.1	11.1	49.5	50.5	.0	.0	19.8	42.3	36.1	1.8	28%	.0	.0	7.6	92.4	WNW /52%
中雲(Y)	0																		
澎湖(X)	0																		
金門(X)	0																		
馬祖(X)	99%	.71	1.7/ 9.2/NE	7.6	16.3	26.9	72.4	.6	.0	27.4	28.4	27.0	17.2	99%	100.0	.0	.0	.0	NE /62%

5-31

表5.16b 2019年秋季12個海域主要測站2修補後示性波高週期及波向重要統計量統計表

海域 (測站)	波高 蒐集	H_s 平均	H_s 最大 (波高/週期/波向)	T_p 平均	T_p 最大	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	波向 N~E	波向 E~S	波向 S~W	波向 W~N	主波向 (百分比) 來向/%
	率	(m)	(m/s/來向)	(s)	(s)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	率	(%)	(%)	(%)	(%)	
北苗(Y)	100%	1.27	3.6/ 6.5/N	4.9	7.5	7.9	58.7	32.8	.6	93.5	6.5	.0	.0	100%	83.3	.0	1.3	15.4	N /66%
北端(Y)	100%	1.54	6.8/10.4/NE	6.1	10.5	4.0	49.9	40.9	5.3	48.2	46.7	5.1	.1	100%	78.8	20.3	.5	.4	ENE/39%
宜蘭(Y)	100%	1.38	5.7/ 8.7/NNE	6.4	10.5	2.6	59.4	36.7	1.3	33.0	60.5	6.3	.1	100%	80.4	19.6	.0	.0	NE /37%
花蓮(Y)	100%	1.44	5.0/ 7.7/NE	6.2	10.6	2.3	56.6	38.5	2.6	43.6	51.8	4.6	.0	100%	87.8	11.2	.9	.1	NE /39%
臺東(X)	100%	.52	1.9/11.4/SSE	7.2	14.7	68.9	30.1	1.0	.0	19.3	57.2	17.9	5.6	100%	47.8	3.7	47.3	1.2	ENE/36%
屏東(Z)	100%	.87	3.0/ 7.0/SSW	5.7	11.2	20.9	68.8	10.3	.0	63.5	32.7	3.5	.3	100%	8.3	52.0	37.3	2.4	SE /25%
高雄(Z)	100%	.83	2.1/ 7.3/SW	4.9	7.8	12.9	80.2	7.0	.0	88.9	11.1	.0	.0	100%	.9	9.1	28.3	61.8	NW /29%
嘉南(A)	100%	.51	1.4/ 7.9/WNW	7.7	14.8	57.7	42.3	.0	.0	12.0	48.6	27.2	12.2	100%	22.9	30.1	2.6	44.5	WNW/27%
中雲(Y)	100%	2.34	6.6/ 7.2/NNE	5.5	8.2	4.4	27.9	35.9	31.8	68.1	31.5	.4	.0	100%	94.0	.0	3.1	2.9	NNE/73%
澎湖(X)	100%	.72	1.8/ 9.1/NNW	6.9	9.4	22.1	77.1	.9	.0	12.0	76.6	11.5	.0	100%	.0	42.4	9.6	48.0	NNW/34%
金門(X)	100%	1.10	2.3/ 7.7/ESE	7.3	13.8	2.8	84.3	12.9	.0	2.7	81.9	13.8	1.6	100%	.3	96.6	2.9	.2	ESE/65%
馬祖(X)	100%	.71	1.7/ 9.2/NE	7.6	16.3	27.1	72.3	.6	.0	27.6	28.4	26.9	17.1	100%	99.9	.1	.0	.0	NE /62%

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表 5.17a 2019 年整年 12 個海域主要測站 2 修補前示性波高週期及波向重要統計量統計表

海域 (測站)	波高 H_s		H_s 最大	T_p	T_p	小波	小浪	中浪	大浪	T_p	T_p	T_p	T_p	波向	波向	波向	波向	波向	主波向
	蒐集	平均	(波高/週期/波向)	平均	最大	<0.5m	~1.5m	~3m	>3m	<6s	6~8s	8~10s	>10s	蒐集	N~E	E~S	S~W	W~N	(百分比)
	率	(m)	(m/s/來向)	(s)	(s)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	率	(%)	(%)	(%)	(%)	來向/%
北苗(Y)	90%	1.10	4.1/ 7.3/N	4.7	7.9	17.8	58.4	22.9	.8	93.8	6.2	.0	.0	90%	64.9	.0	12.5	22.6	N /52%
北端(Y)	75%	1.15	6.8/10.4/NE	5.8	10.5	19.7	52.8	24.8	2.6	60.9	35.7	3.2	.1	75%	62.1	34.0	2.3	1.6	ENE/28%
宜蘭(Y)	91%	1.13	5.7/ 8.7/NNE	5.9	11.9	10.8	65.5	22.6	1.0	53.1	43.8	2.9	.2	91%	61.5	38.4	.1	.1	ENE/28%
花蓮(Y)	94%	1.09	5.0/ 7.7/NE	5.9	10.6	17.1	60.0	21.5	1.4	55.0	43.0	2.0	.0	94%	78.3	20.0	1.1	.5	NE /28%
臺東(X)	77%	.60	4.0/ 6.3/SW	6.4	14.4	56.1	39.6	4.0	.3	43.5	34.7	17.7	4.1	77%	.2	2.9	75.7	21.2	SW /33%
屏東(Z)	90%	.85	5.6/ 8.2/SSE	5.5	11.2	20.8	70.7	7.7	.9	69.0	28.0	2.9	.2	90%	5.8	58.7	33.9	1.7	SE /36%
高雄(Z)	73%	.80	4.3/ 6.7/SSW	4.7	8.9	23.4	69.5	6.7	.3	91.3	8.3	.4	.0	73%	.3	1.4	45.7	52.6	NW /24%
嘉南(A)	29%	.58	2.0/10.3/WSW	6.8	17.0	45.9	53.2	.9	.0	24.9	47.6	25.3	2.2	29%	.3	17.6	49.3	32.9	WSW/33%
中雲(Y)	0																		
澎湖(X)	69%	.64	3.4/ 9.0/SSE	7.1	12.8	40.7	56.0	3.3	.1	27.8	38.7	30.3	3.3	69%	2.6	89.7	6.7	1.0	SE /31%
金門(X)	0																		
馬祖(X)	94%	.56	2.3/13.3/NE	7.2	16.3	51.2	48.1	.7	.0	28.1	39.8	21.9	10.2	94%	99.6	.2	.0	.2	NE /68%

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表5.17b 2019年整年12個海域主要測站2修補後示性波高週期及波向重要統計量統計表

海域 (測站)	波高 蒐集	H_s 平均	H_s 最大 (波高/週期/波向)	T_p 平均	T_p 最大	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	波向 N~E	波向 E~S	波向 S~W	波向 W~N	主波向 (百分比)
	率	(m)	(m/s/來向)	(s)	(s)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	率	(%)	(%)	(%)	(%)	來向/%
北苗(Y)	100%	1.08	4.1/ 7.3/N	4.7	7.9	17.5	60.0	21.8	.8	94.2	5.8	.0	.0	100%	62.8	.0	13.7	23.6	N /49%
北端(Y)	100%	1.18	6.8/10.4/NE	5.8	10.5	15.6	57.9	24.4	2.2	60.2	37.1	2.5	.1	100%	55.7	41.3	1.8	1.2	ENE/24%
宜蘭(Y)	100%	1.13	5.7/ 8.7/NNE	5.9	11.9	11.8	64.4	22.8	1.1	52.1	45.0	2.8	.2	100%	62.4	37.4	.1	.1	ENE/28%
花蓮(Y)	100%	1.09	5.0/ 7.7/NE	5.9	10.6	17.9	58.6	22.1	1.4	55.1	43.0	1.9	.0	100%	78.2	20.3	1.1	.5	NE /28%
臺東(X)	100%	.57	4.0/ 6.3/SW	6.5	14.7	60.1	36.3	3.3	.2	38.4	40.7	16.7	4.2	100%	12.2	3.2	68.1	16.6	SW /27%
屏東(Z)	100%	.88	5.6/ 8.2/SSE	5.5	11.2	19.2	71.3	8.5	1.0	69.1	28.0	2.7	.1	100%	5.4	56.6	36.5	1.5	SE /34%
高雄(Z)	100%	.84	4.3/ 6.7/SSW	4.8	8.9	20.0	71.3	8.3	.5	89.7	9.7	.5	.0	100%	.4	3.2	46.2	50.1	NW /23%
嘉南(A)	100%	.51	2.3/10.6/WSW	7.1	17.0	61.4	38.0	.7	.0	18.9	57.2	16.2	7.7	100%	7.6	23.3	34.9	34.3	WNW/19%
中雲(Y)	100%	1.71	6.9/ 7.0/NE	5.0	25.5	17.2	37.4	27.8	17.6	81.2	18.3	.4	.0	100%	63.4	.5	27.9	8.2	NNE/42%
澎湖(X)	100%	.66	3.4/ 9.0/SSE	7.0	12.8	37.4	59.9	2.7	.1	25.2	48.0	24.5	2.3	100%	1.9	75.5	9.6	13.0	SE /28%
金門(X)	100%	.99	4.5/ 9.1/SSE	6.8	13.8	5.9	84.9	9.0	.2	12.1	81.5	6.0	.4	100%	2.0	95.3	2.6	.1	ESE/50%
馬祖(X)	100%	.55	2.3/13.3/NE	7.2	16.3	50.8	48.6	.7	.0	26.7	38.8	24.7	9.8	100%	99.6	.2	.0	.1	NE /67%

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第六章 2019 年 12 海域波浪**主要測站 2** 修補前後資料歷線比較圖

(北苗海域)

(北端海域)

(宜蘭海域)

(花蓮海域)

(臺東海域)

(屏東海域)

(高雄海域)

(嘉南海域)

(中雲海域)

(澎湖海域)

(金門海域)

(馬祖海域)

Twelve Seas Wave H_s at 2018/12

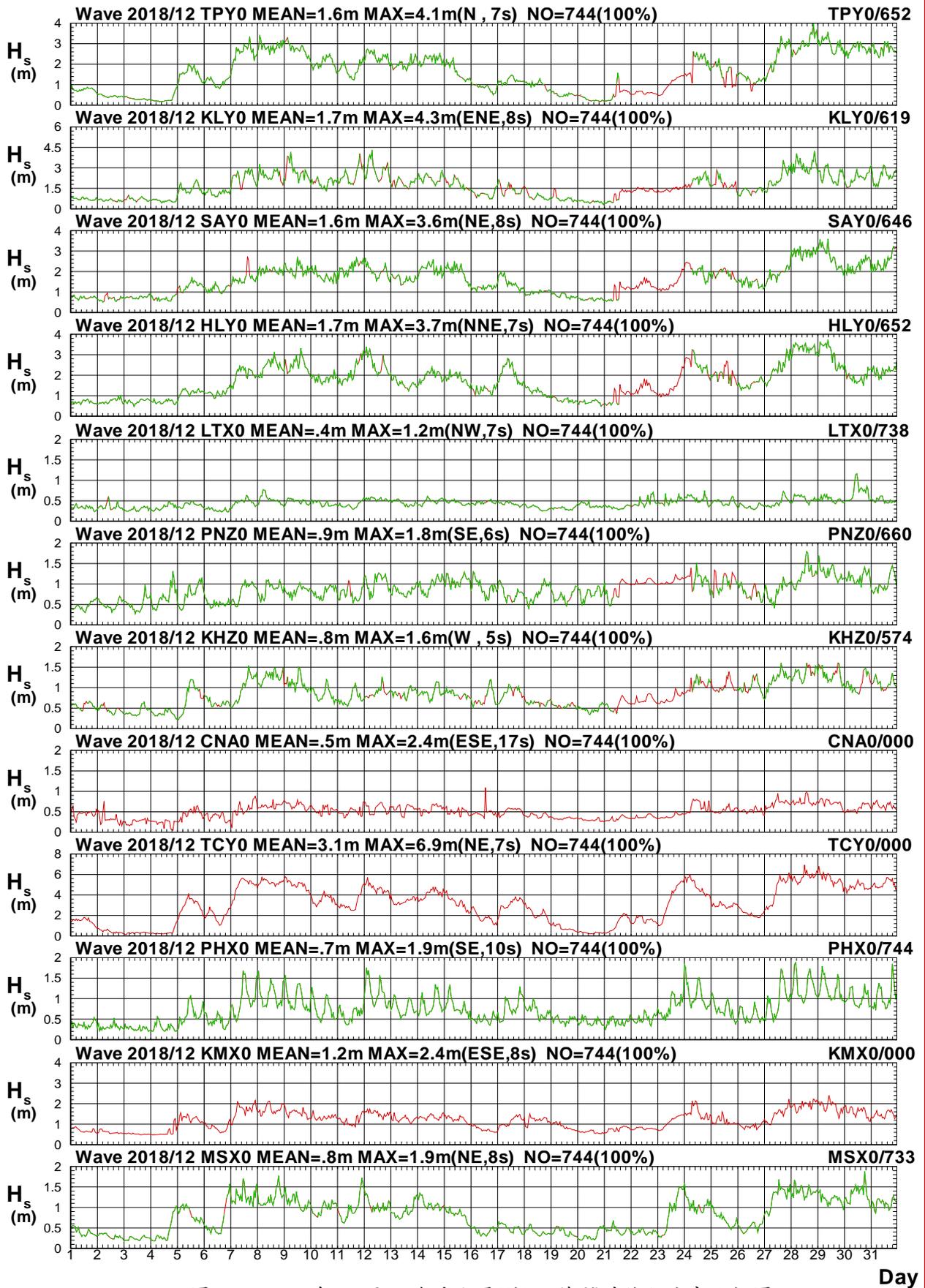


圖6.1 2018年12月12海域主要測站1修補前後之波高比較圖

V18CTPY0.1HA V18CTPY0.1H0 V18CKLY0.1HA V18CKLY0.1H0 V18CSAY0.1HA V18CSAY0.1H0
 V18CHLY0.1HA V18CHLY0.1H0 V18CLTX0.1HA V18CLTX0.1H0 V18CPNZ0.1HA V18CPNZ0.1H0

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Twelve Seas Wave T_p at 2018/12

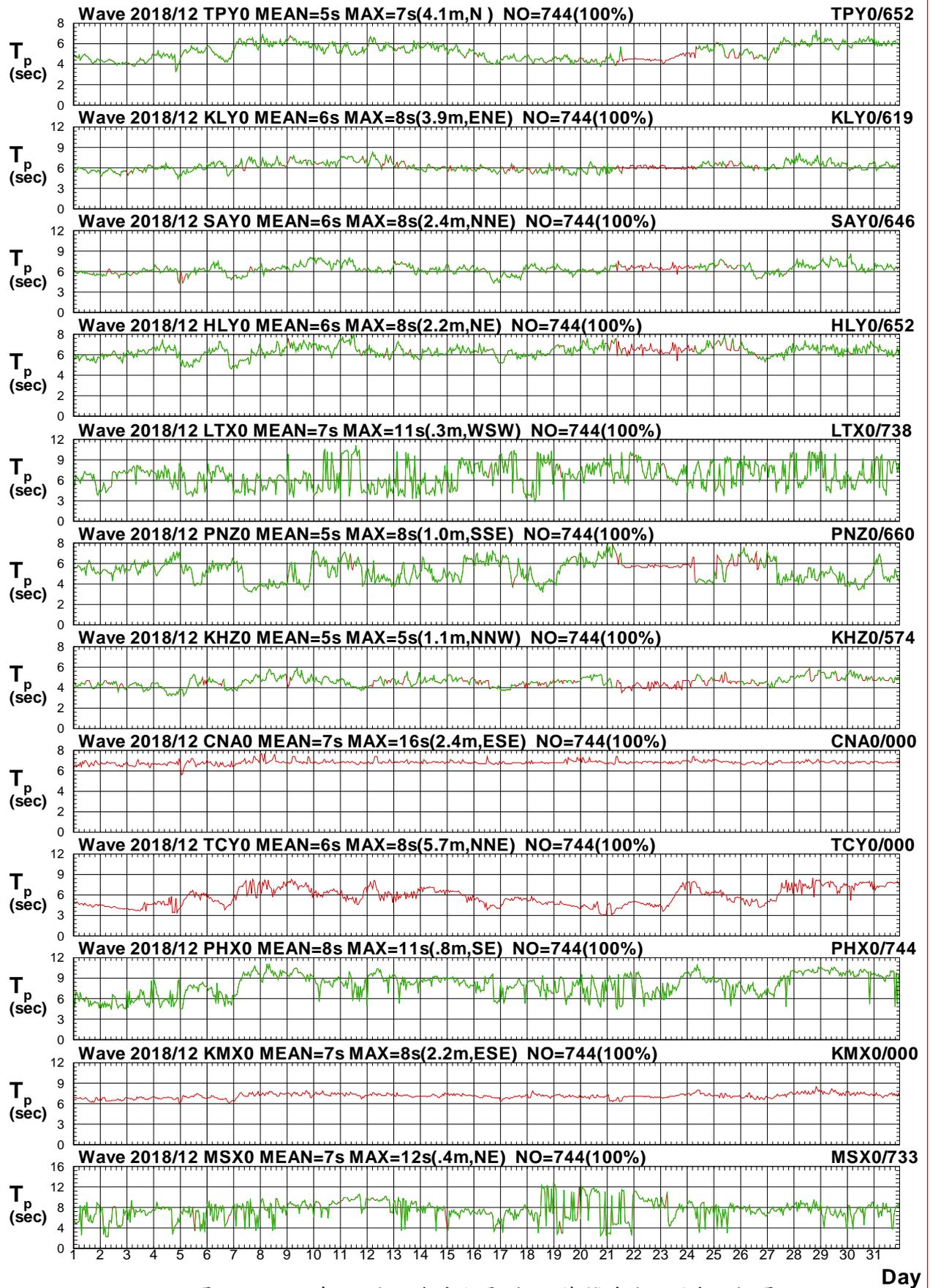


圖6.2 2018年12月12海域主要測站1修補前後之週期比較圖

V18CTPY0.1HA V18CTPY0.1H0 V18CKLY0.1HA V18CKLY0.1H0 V18CSAY0.1HA V18CSAY0.1H0
 V18CHLY0.1HA V18CHLY0.1H0 V18CLTX0.1HA V18CLTX0.1H0 V18CPNZ0.1HA V18CPNZ0.1H0

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Twelve Seas Wave Direction at 2018/12

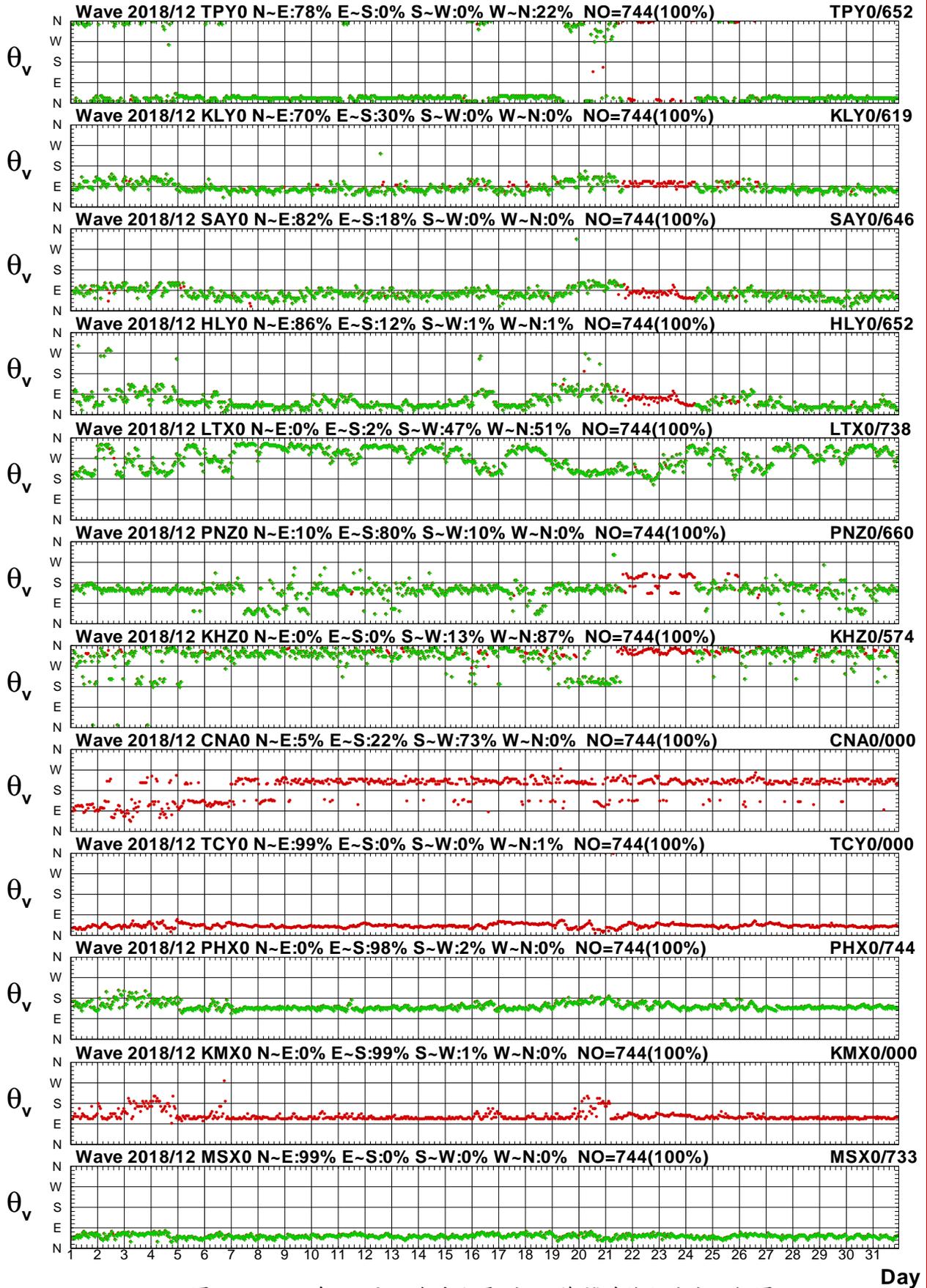


圖6.3 2018年12月12海域主要測站1修補前後之波向比較圖

V18CTPY0.1HA V18CTPY0.1H0 V18CKLY0.1HA V18CKLY0.1H0 V18CSAY0.1HA V18CSAY0.1H0
 V18CHLY0.1HA V18CHLY0.1H0 V18CLTX0.1HA V18CLTX0.1H0 V18CPNZ0.1HA V18CPNZ0.1H0

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Twelve Seas Wave H_s at 2019/01

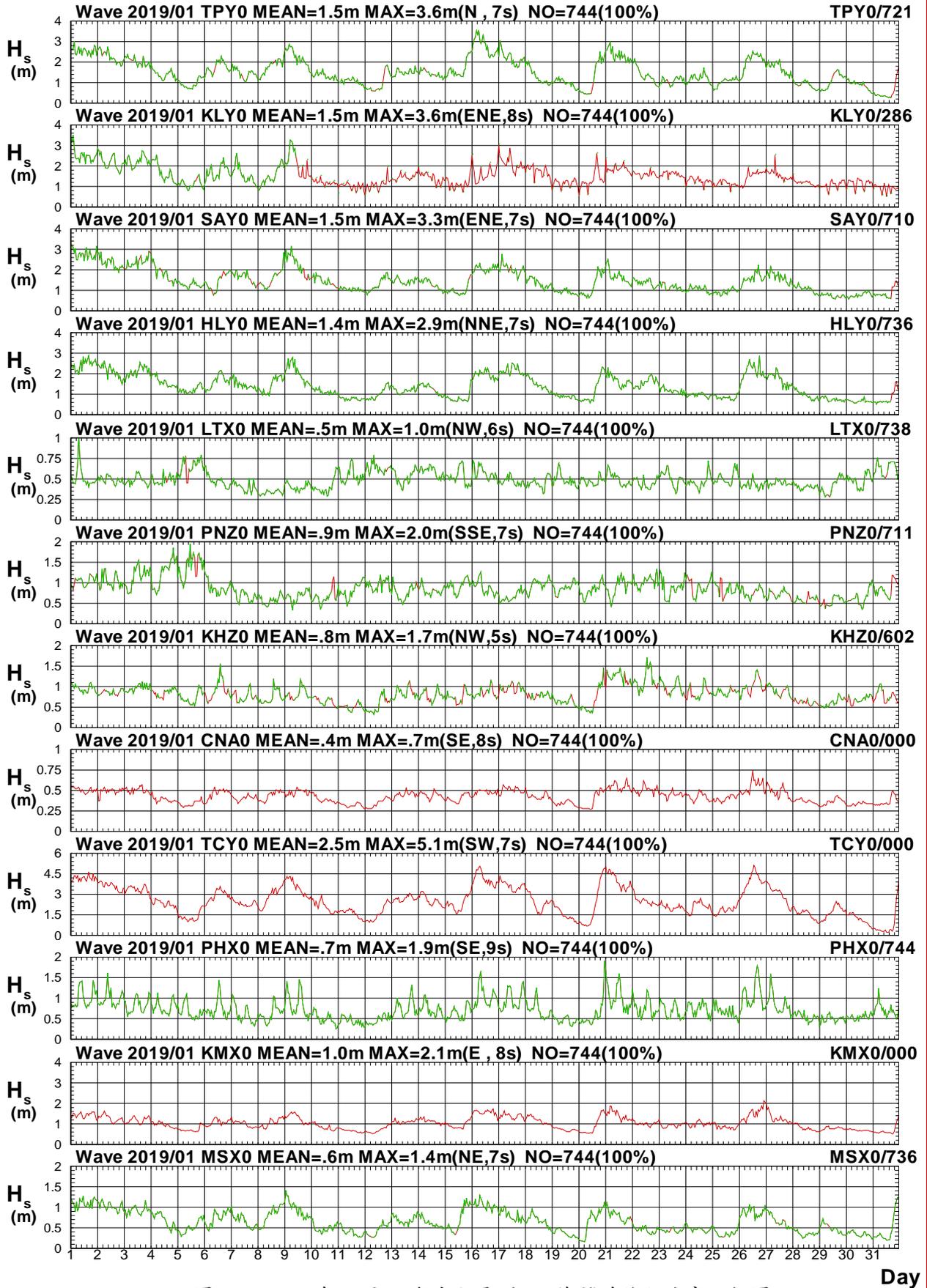


圖6.4 2019年1月12海域主要測站1修補前後之波高比較圖

V191TPY0.1HA V191TPY0.1HO V191KLY0.1HA V191KLY0.1HO V191SAY0.1HA V191SAY0.1HO
 V191HLY0.1HA V191HLY0.1HO V191LTX0.1HA V191LTX0.1HO V191PNZ0.1HA V191PNZ0.1HO

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Twelve Seas Wave T_p at 2019/01

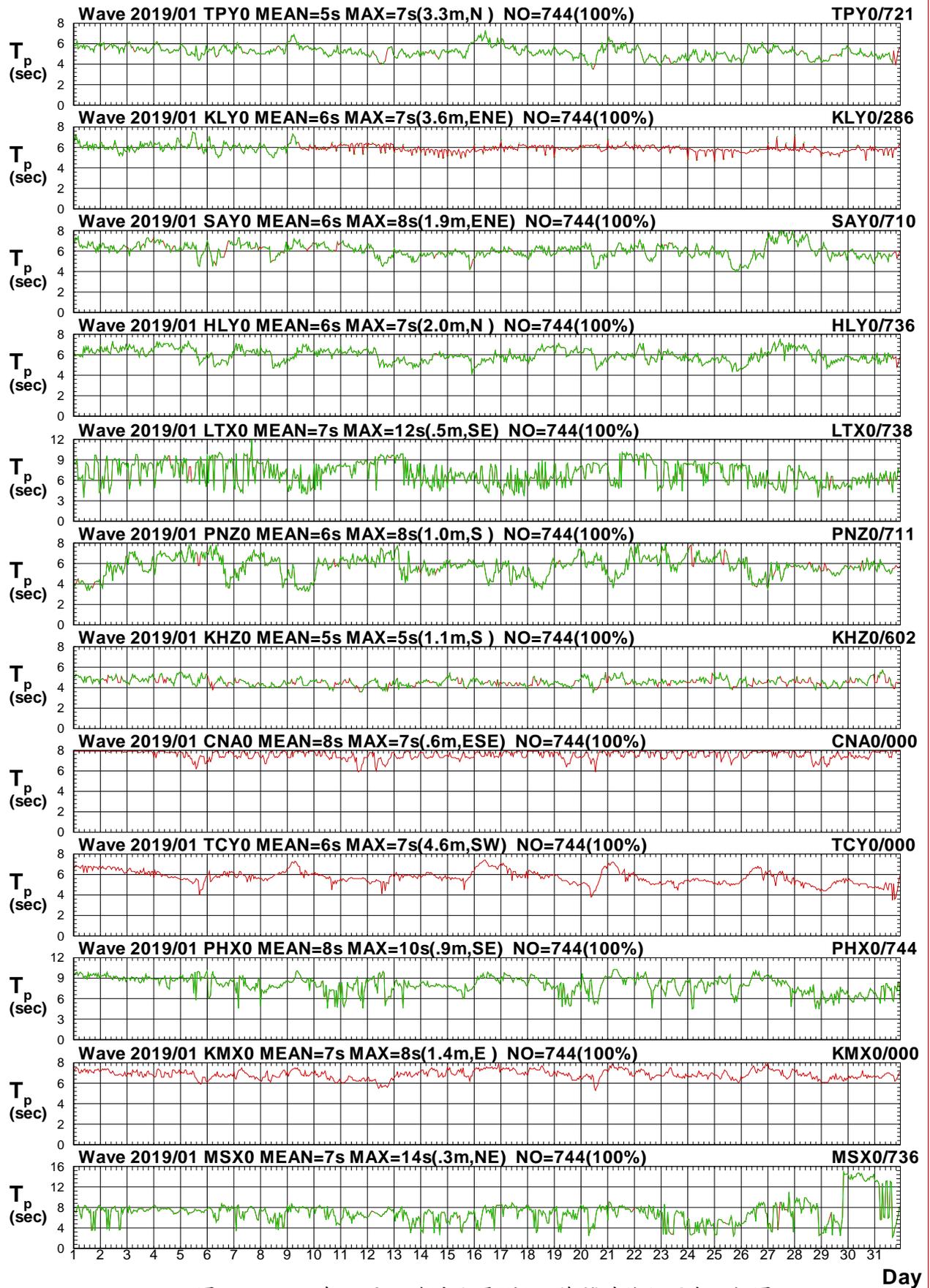


圖6.5 2019年1月12海域主要測站1修補前後之週期比較圖

V191TPY0.1HA V191TPY0.1H0 V191KLY0.1HA V191KLY0.1H0 V191SAY0.1HA V191SAY0.1H0
 V191HLY0.1HA V191HLY0.1H0 V191LTX0.1HA V191LTX0.1H0 V191PNZ0.1HA V191PNZ0.1H0

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Twelve Seas Wave Direction at 2019/01

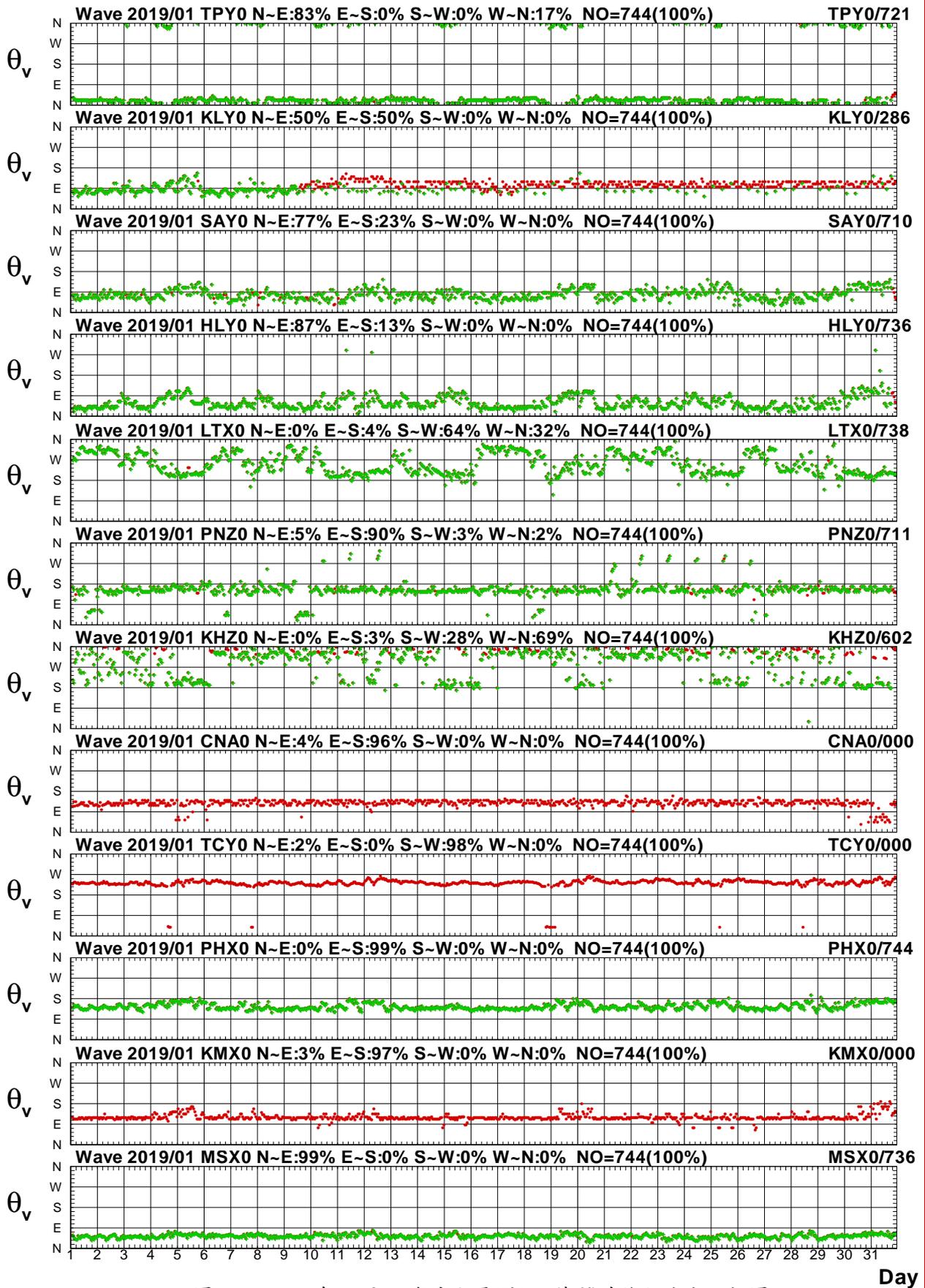


圖6.6 2019年1月12海域主要測站1修補前後之波向比較圖

V191TPY0.1HA V191TPY0.1HO V191KLY0.1HA V191KLY0.1HO V191SAY0.1HA V191SAY0.1HO
 V191HLY0.1HA V191HLY0.1HO V191LTX0.1HA V191LTX0.1HO V191PNZ0.1HA V191PNZ0.1HO

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Twelve Seas Wave H_s at 2019/02

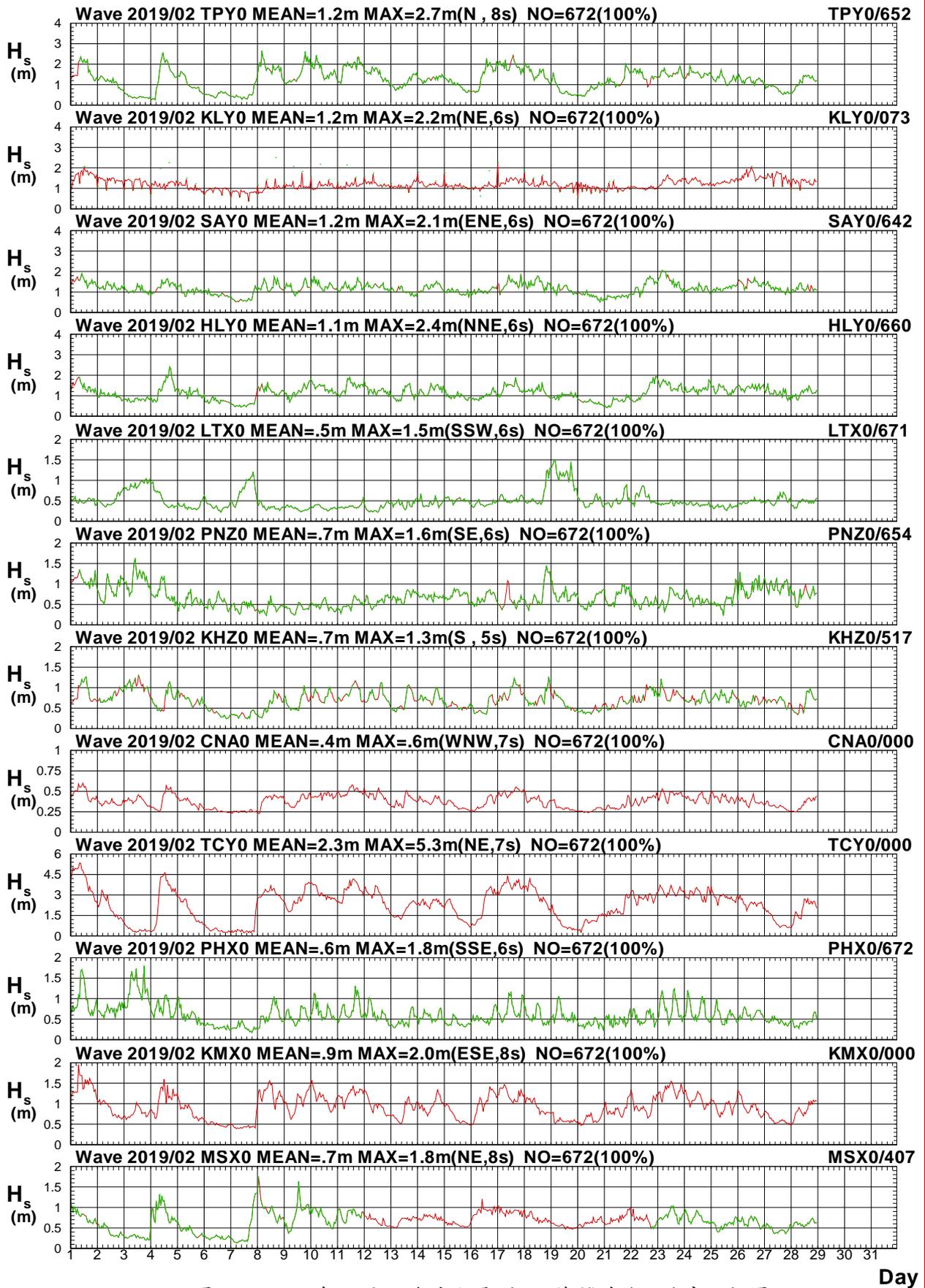


圖6.7 2019年2月12海域主要測站1修補前後之波高比較圖

V192TPY0.1HA V192TPY0.1HO V192KLY0.1HA V192KLY0.1HO V192SAY0.1HA V192SAY0.1HO
 V192HLY0.1HA V192HLY0.1HO V192LTX0.1HA V192LTX0.1HO V192PNZ0.1HA V192PNZ0.1HO

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Twelve Seas Wave T_p at 2019/02

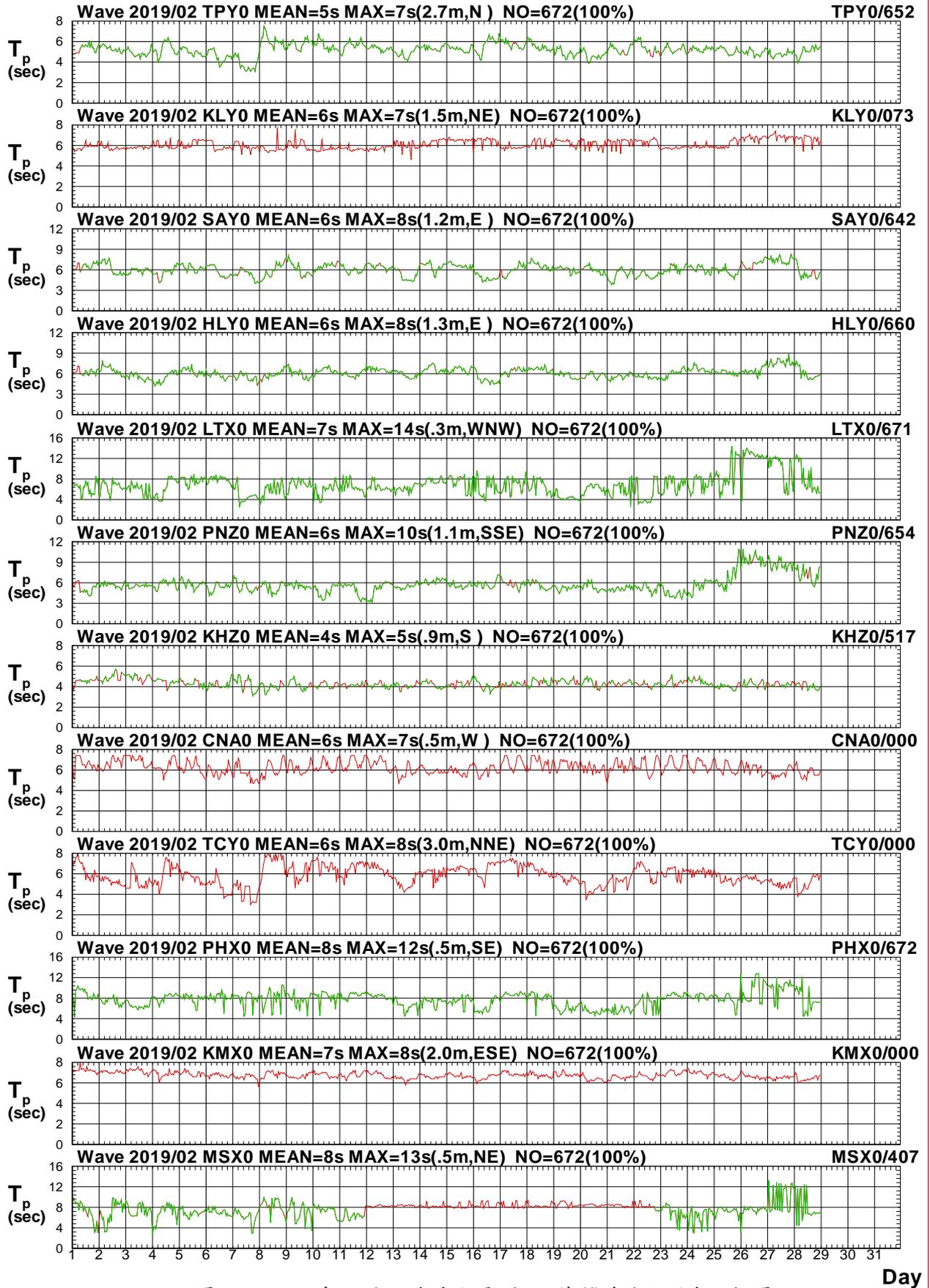


圖6.8 2019年2月12海域主要測站1修補前後之週期比較圖

V192TPY0.1HA V192TPY0.1HO V192KLY0.1HA V192KLY0.1HO V192SAY0.1HA V192SAY0.1HO
 V192HLY0.1HA V192HLY0.1HO V192LTX0.1HA V192LTX0.1HO V192PNZ0.1HA V192PNZ0.1HO

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Twelve Seas Wave Direction at 2019/02

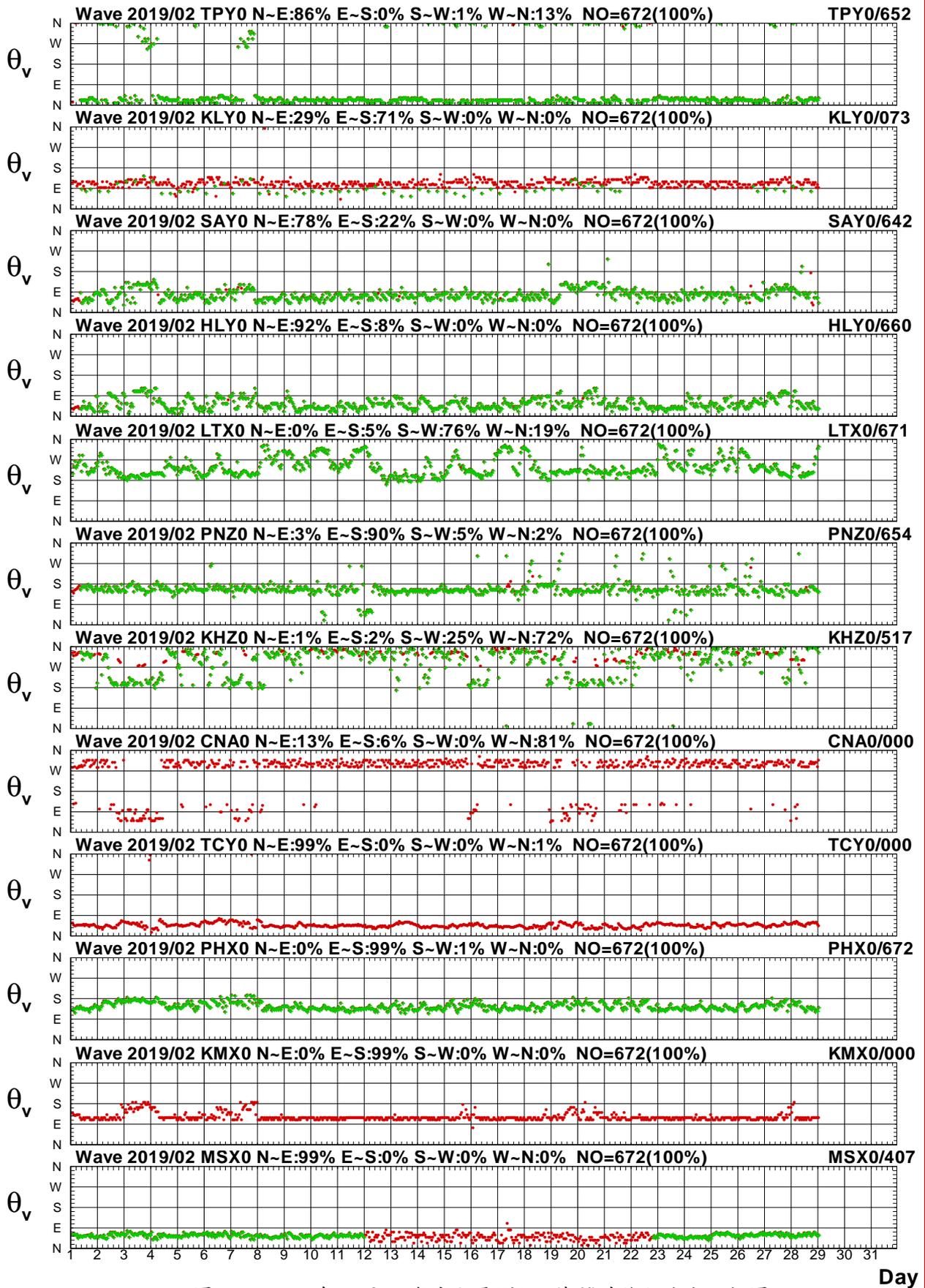


圖6.9 2019年2月12海域主要測站1修補前後之波向比較圖

V192TPY0.1HA V192TPY0.1HO V192KLY0.1HA V192KLY0.1HO V192SAY0.1HA V192SAY0.1HO
 V192HLY0.1HA V192HLY0.1HO V192LTX0.1HA V192LTX0.1HO V192PNZ0.1HA V192PNZ0.1HO

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Twelve Seas Wave H_s at 2019/03

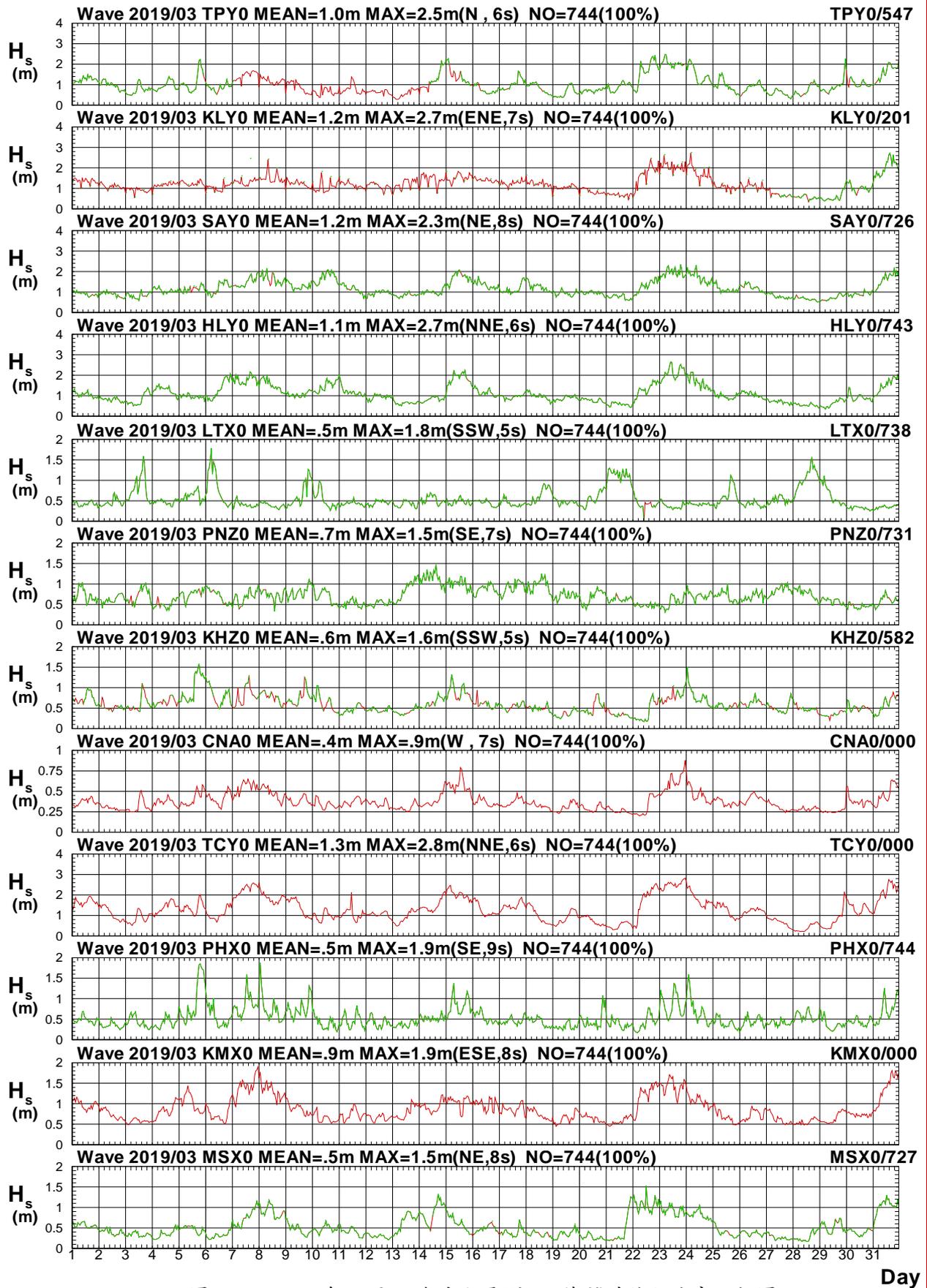


圖6.10 2019年3月12海域主要測站1修補前後之波高比較圖

V193TPY0.1HA V193TPY0.1HO V193KLY0.1HA V193KLY0.1HO V193SAY0.1HA V193SAY0.1HO
 V193HLY0.1HA V193HLY0.1HO V193LTX0.1HA V193LTX0.1HO V193PNZ0.1HA V193PNZ0.1HO

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Twelve Seas Wave T_p at 2019/03

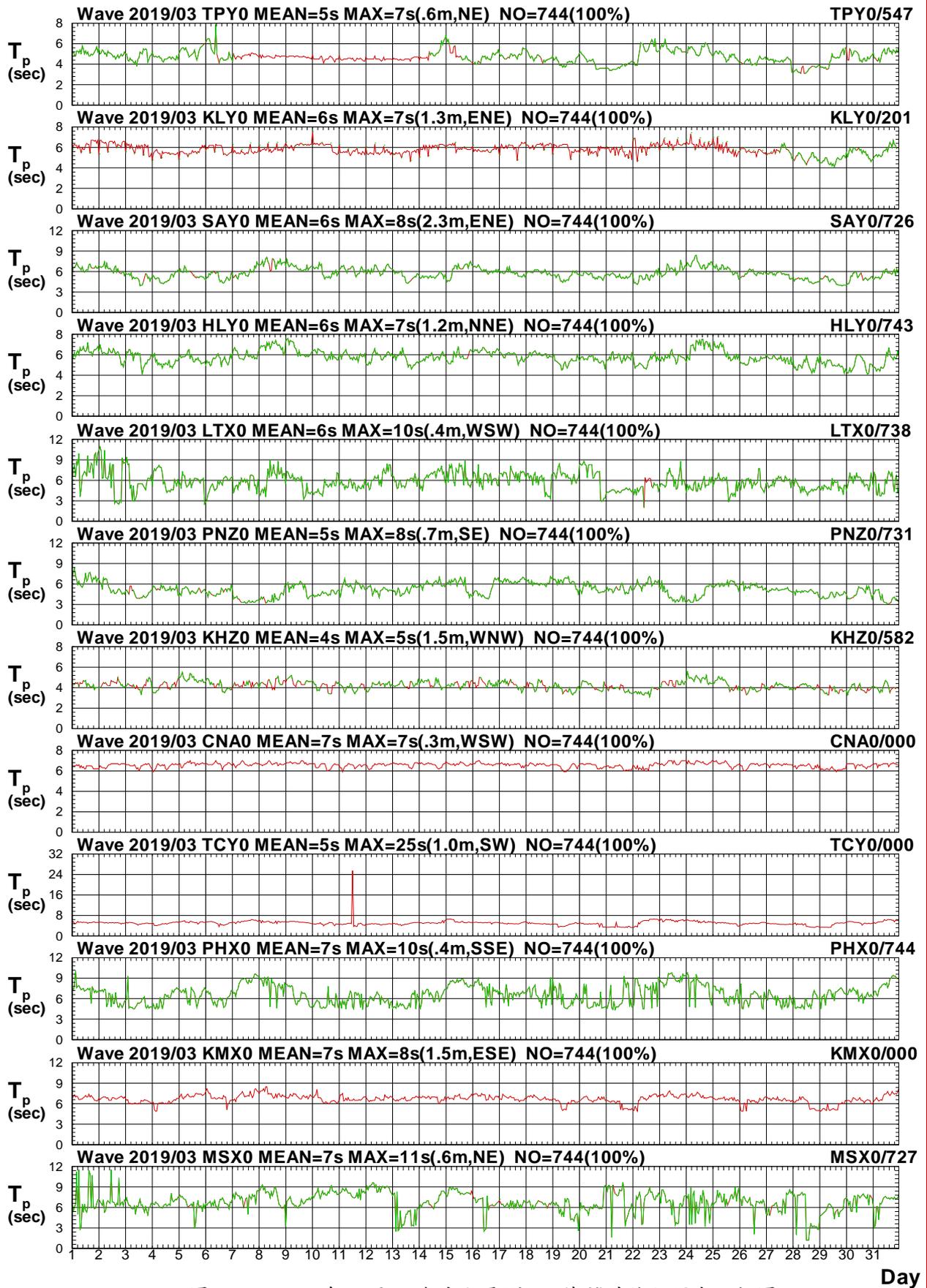


圖6.11 2019年3月12海域主要測站1修補前後之週期比較圖

V193TPY0.1HA V193TPY0.1HO V193KLY0.1HA V193KLY0.1HO V193SAY0.1HA V193SAY0.1HO
 V193HLY0.1HA V193HLY0.1HO V193LTX0.1HA V193LTX0.1HO V193PNZ0.1HA V193PNZ0.1HO

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Twelve Seas Wave Direction at 2019/03

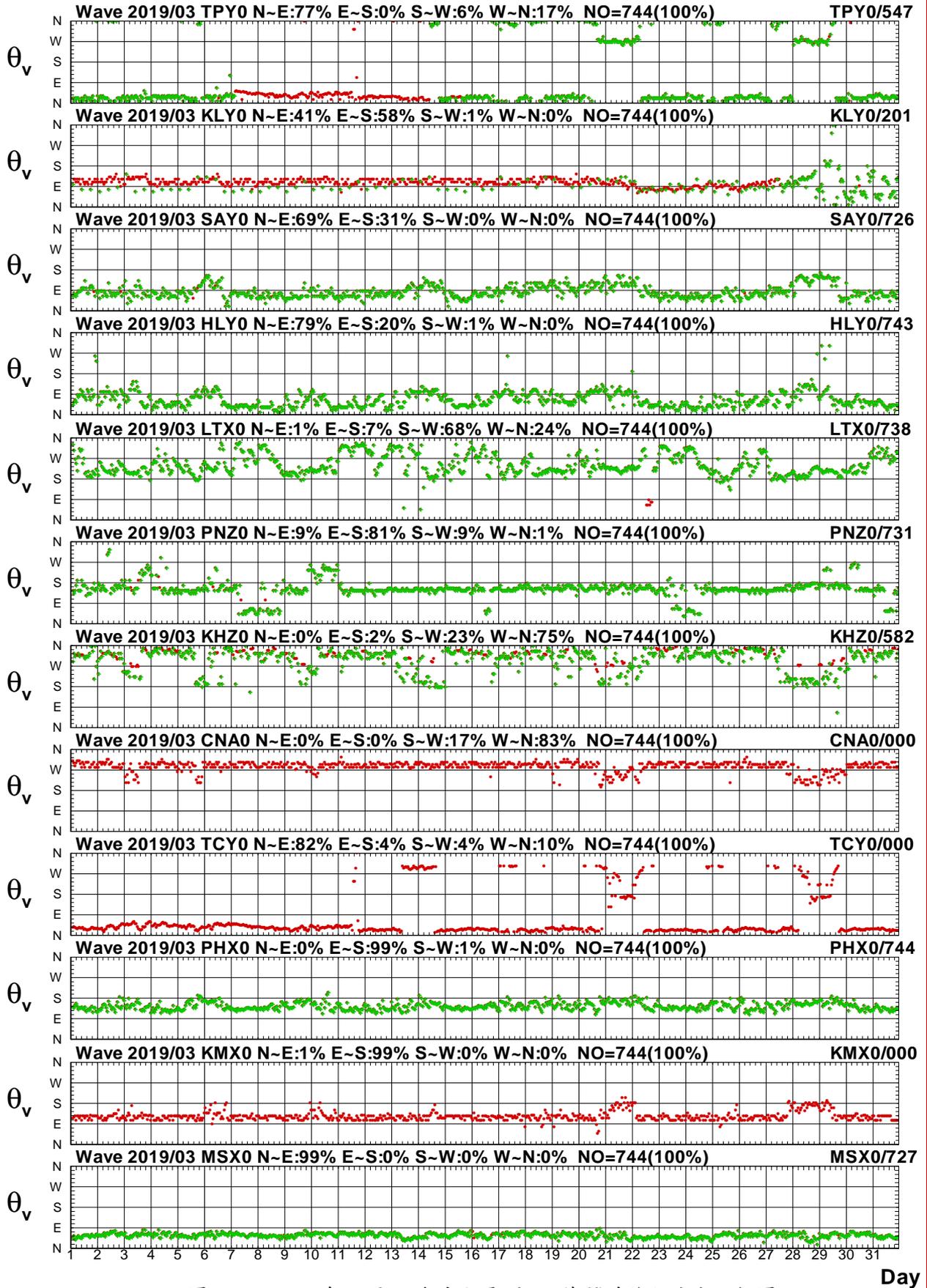


圖6.12 2019年3月12海域主要測站1修補前後之波向比較圖

V193TPY0.1HA V193TPY0.1HO V193KLY0.1HA V193KLY0.1HO V193SAY0.1HA V193SAY0.1HO
 V193HLY0.1HA V193HLY0.1HO V193LTX0.1HA V193LTX0.1HO V193PNZ0.1HA V193PNZ0.1HO

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Twelve Seas Wave H_s at 2019/04

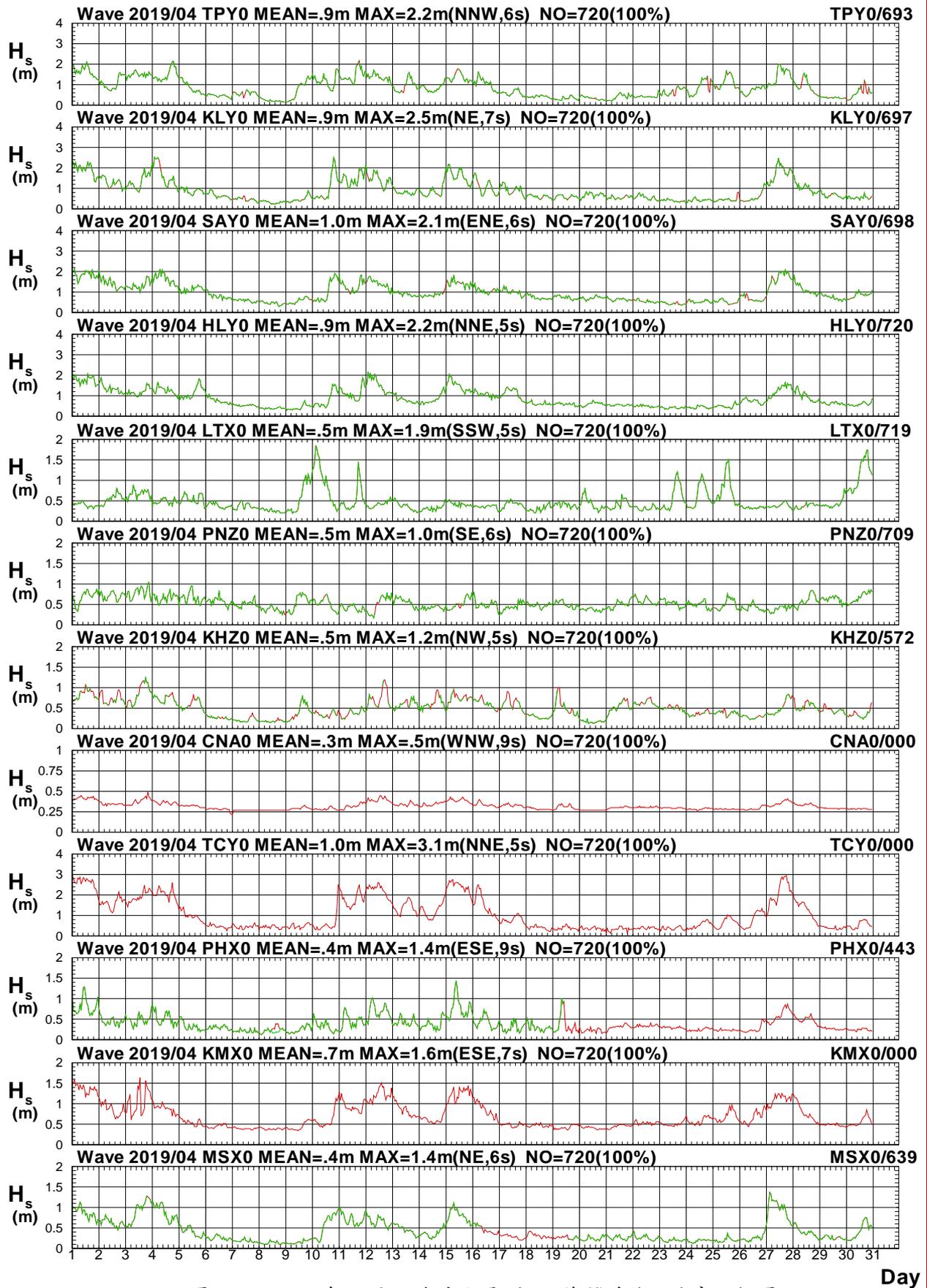


圖6.13 2019年4月12海域主要測站1修補前後之波高比較圖

V194TPY0.1HA V194TPY0.1HO V194KLY0.1HA V194KLY0.1HO V194SAY0.1HA V194SAY0.1HO
 V194HLY0.1HA V194HLY0.1HO V194LTX0.1HA V194LTX0.1HO V194PNZ0.1HA V194PNZ0.1HO

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Twelve Seas Wave T_p at 2019/04

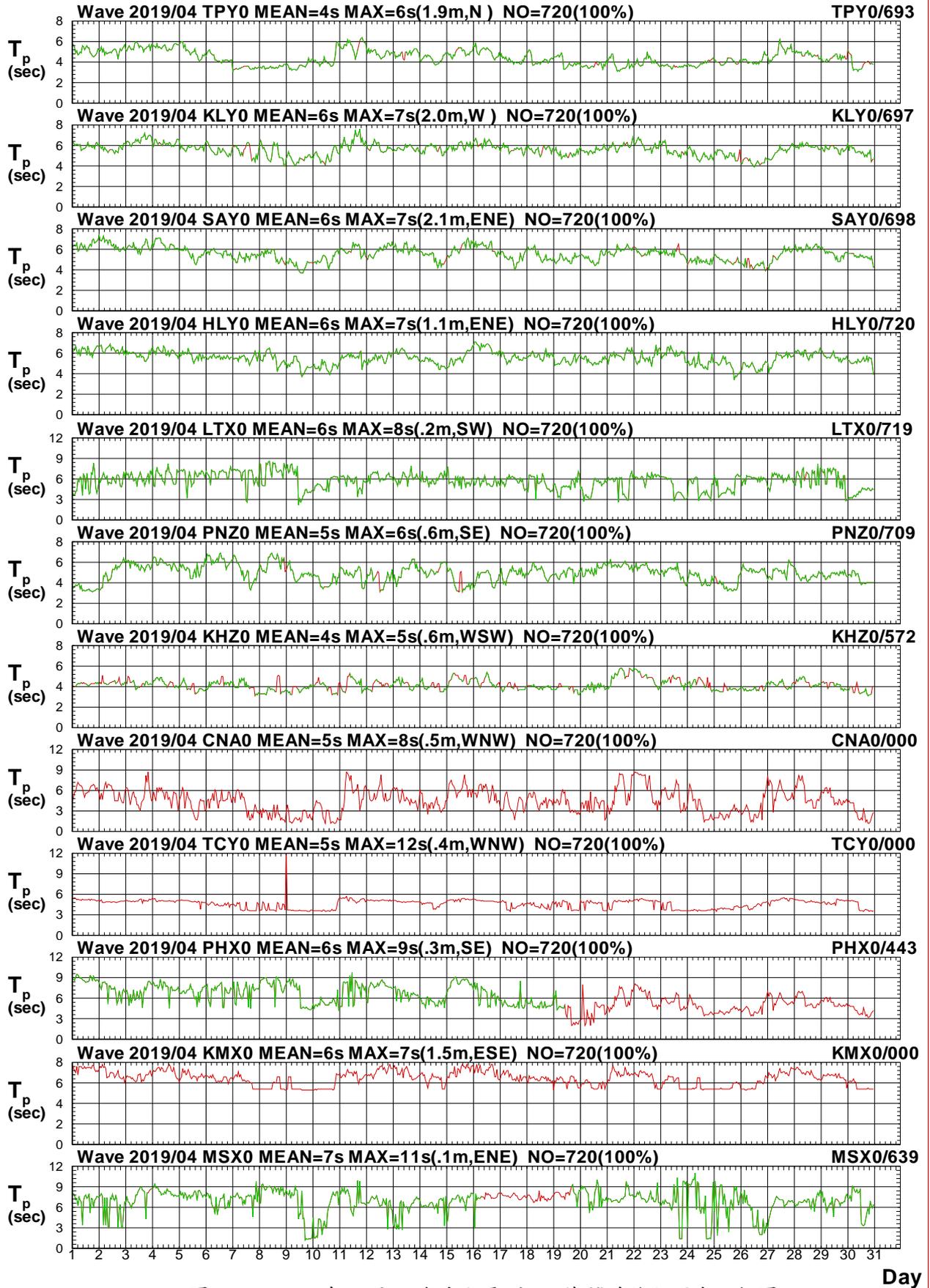


圖6.14 2019年4月12海域主要測站1修補前後之週期比較圖

V194TPY0.1HA V194TPY0.1HO V194KLY0.1HA V194KLY0.1HO V194SAY0.1HA V194SAY0.1HO
 V194HLY0.1HA V194HLY0.1HO V194LTX0.1HA V194LTX0.1HO V194PNZ0.1HA V194PNZ0.1HO

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Twelve Seas Wave Direction at 2019/04

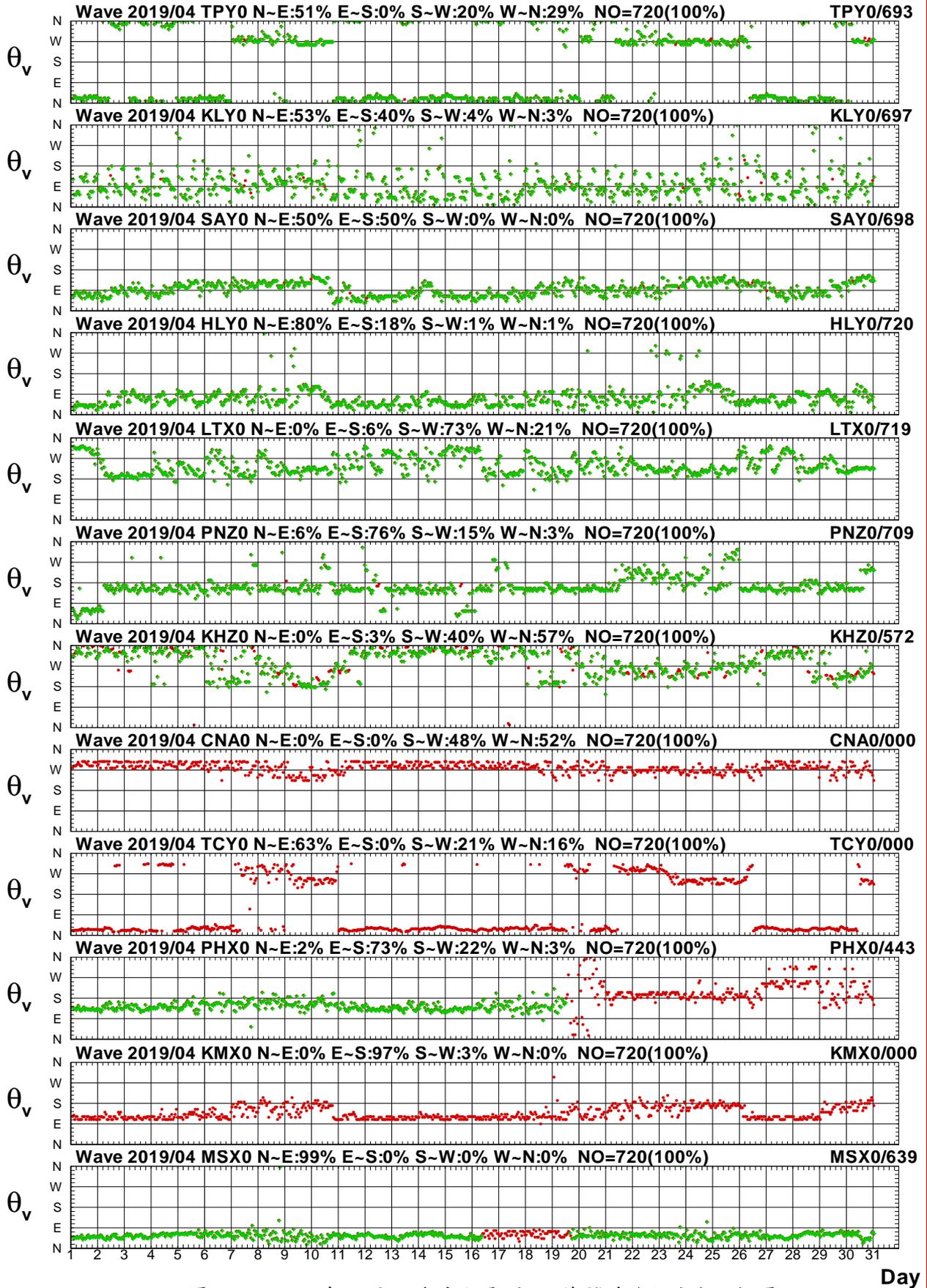


圖6.15 2019年4月12海域主要測站1修補前後之波向比較圖

V194TPY0.1HA V194TPY0.1HO V194KLY0.1HA V194KLY0.1HO V194SAY0.1HA V194SAY0.1HO
 V194HLY0.1HA V194HLY0.1HO V194LTX0.1HA V194LTX0.1HO V194PNZ0.1HA V194PNZ0.1HO

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Twelve Seas Wave H_s at 2019/05

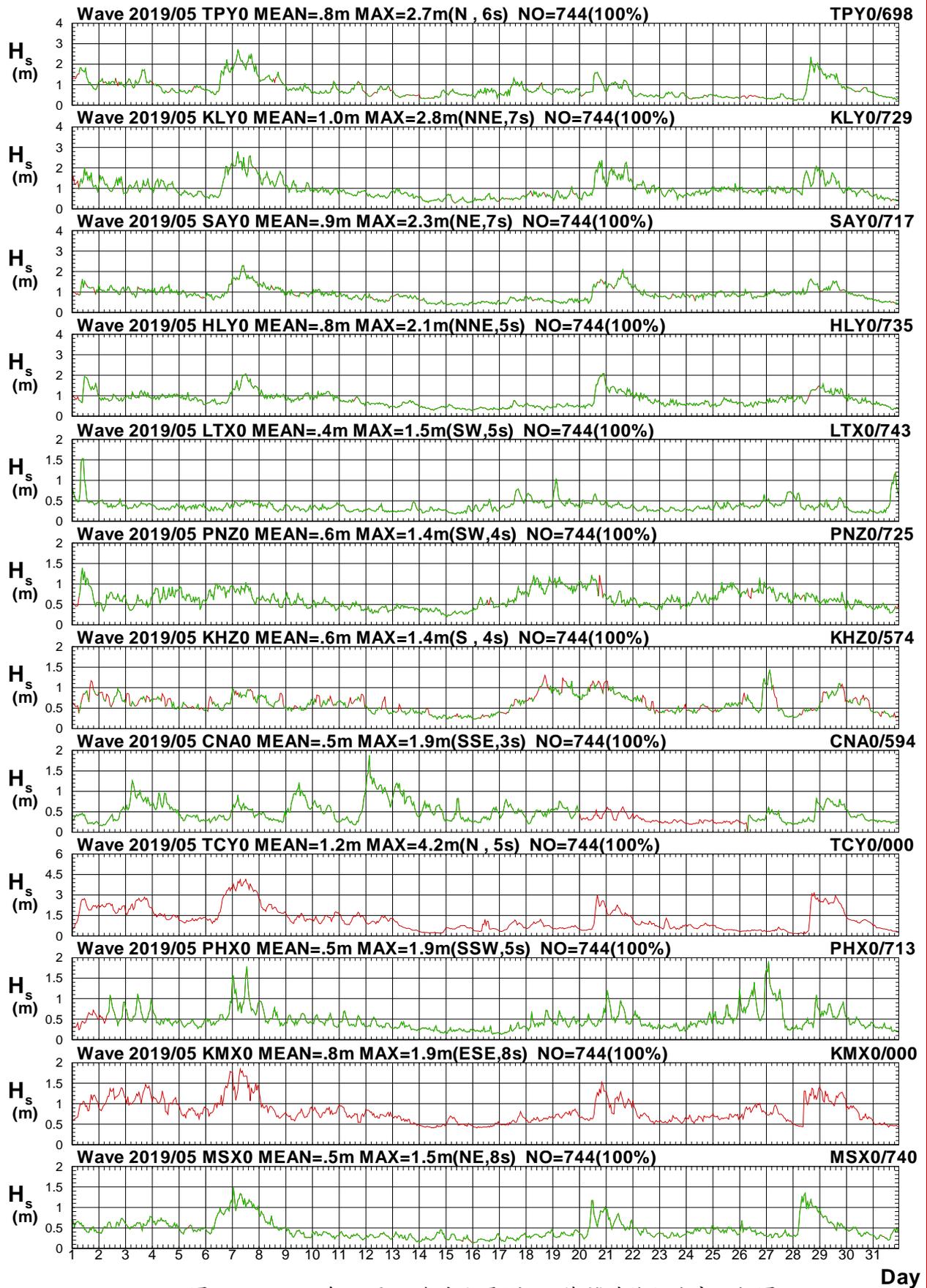


圖6.16 2019年5月12海域主要測站1修補前後之波高比較圖

V195TPY0.1HA V195TPY0.1HO V195KLY0.1HA V195KLY0.1HO V195SAY0.1HA V195SAY0.1HO
 V195HLY0.1HA V195HLY0.1HO V195LTX0.1HA V195LTX0.1HO V195PNZ0.1HA V195PNZ0.1HO

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Twelve Seas Wave T_p at 2019/05

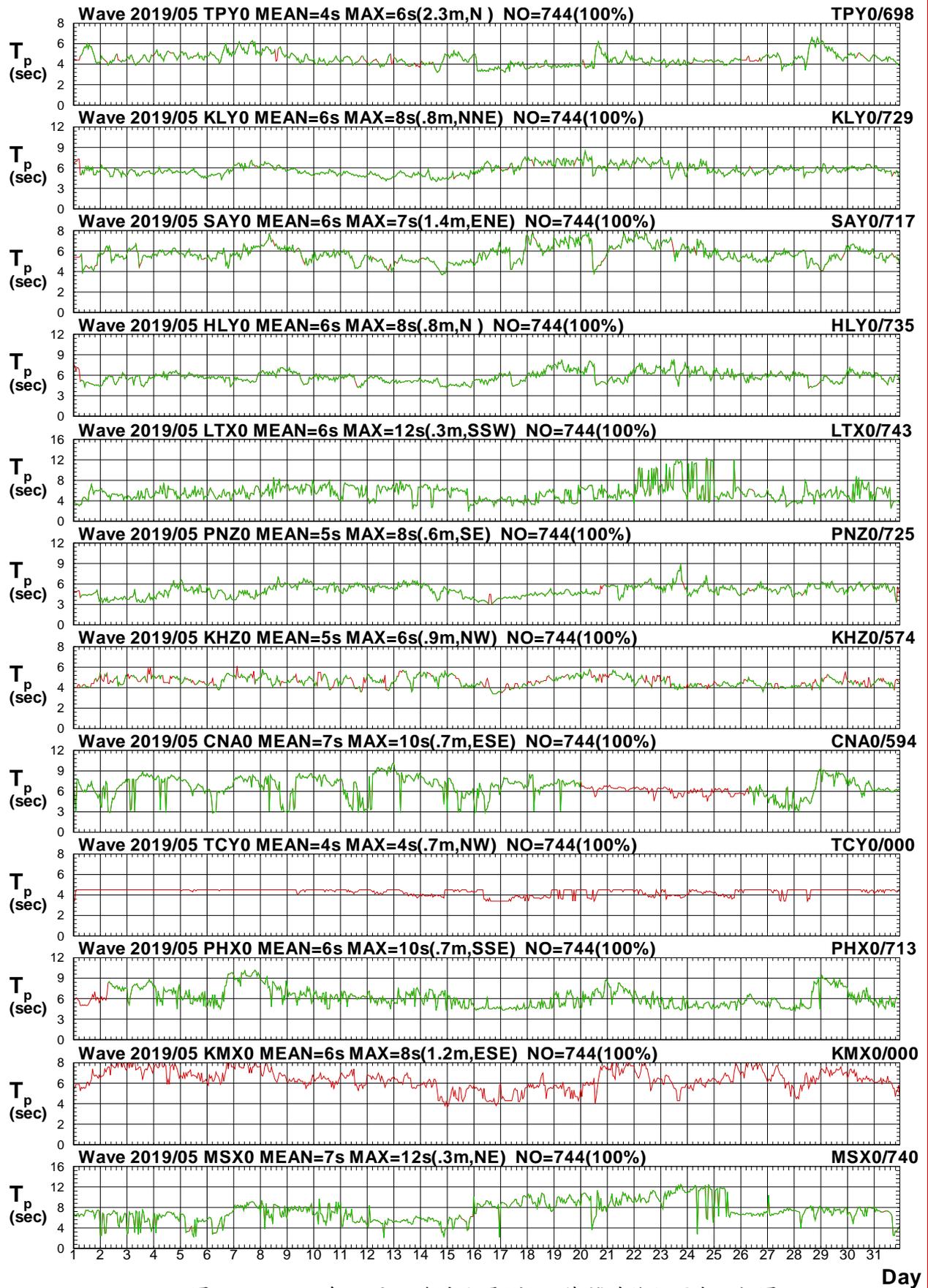


圖6.17 2019年5月12海域主要測站1修補前後之週期比較圖

V195TPY0.1HA V195TPY0.1HO V195KLY0.1HA V195KLY0.1HO V195SAY0.1HA V195SAY0.1HO
 V195HLY0.1HA V195HLY0.1HO V195LTX0.1HA V195LTX0.1HO V195PNZ0.1HA V195PNZ0.1HO

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Twelve Seas Wave Direction at 2019/05

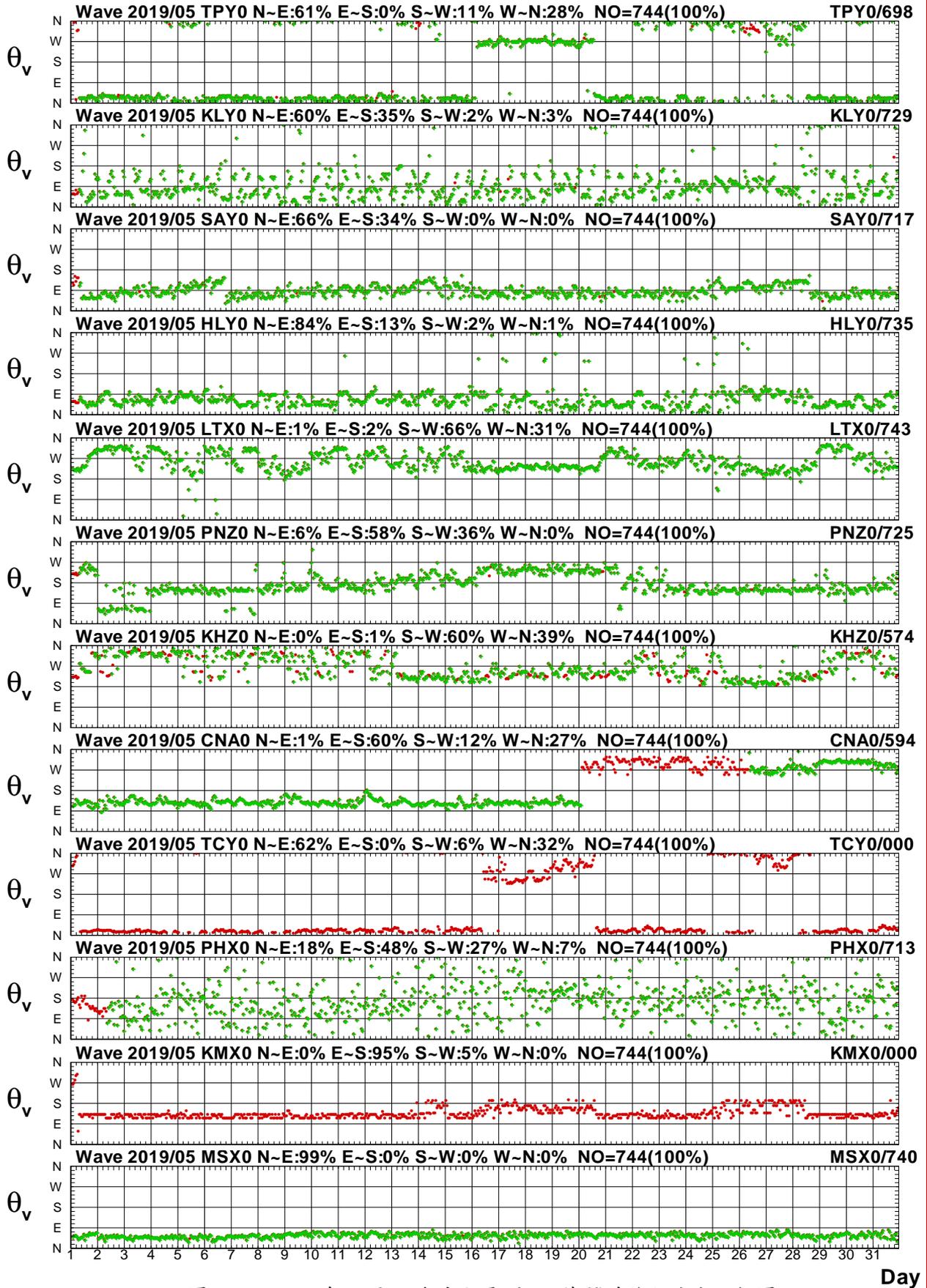


圖6.18 2019年5月12海域主要測站1修補前後之波向比較圖

V195TPY0.1HA V195TPY0.1HO V195KLY0.1HA V195KLY0.1HO V195SAY0.1HA V195SAY0.1HO
 V195HLY0.1HA V195HLY0.1HO V195LTX0.1HA V195LTX0.1HO V195PNZ0.1HA V195PNZ0.1HO

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Twelve Seas Wave H_s at 2019/06

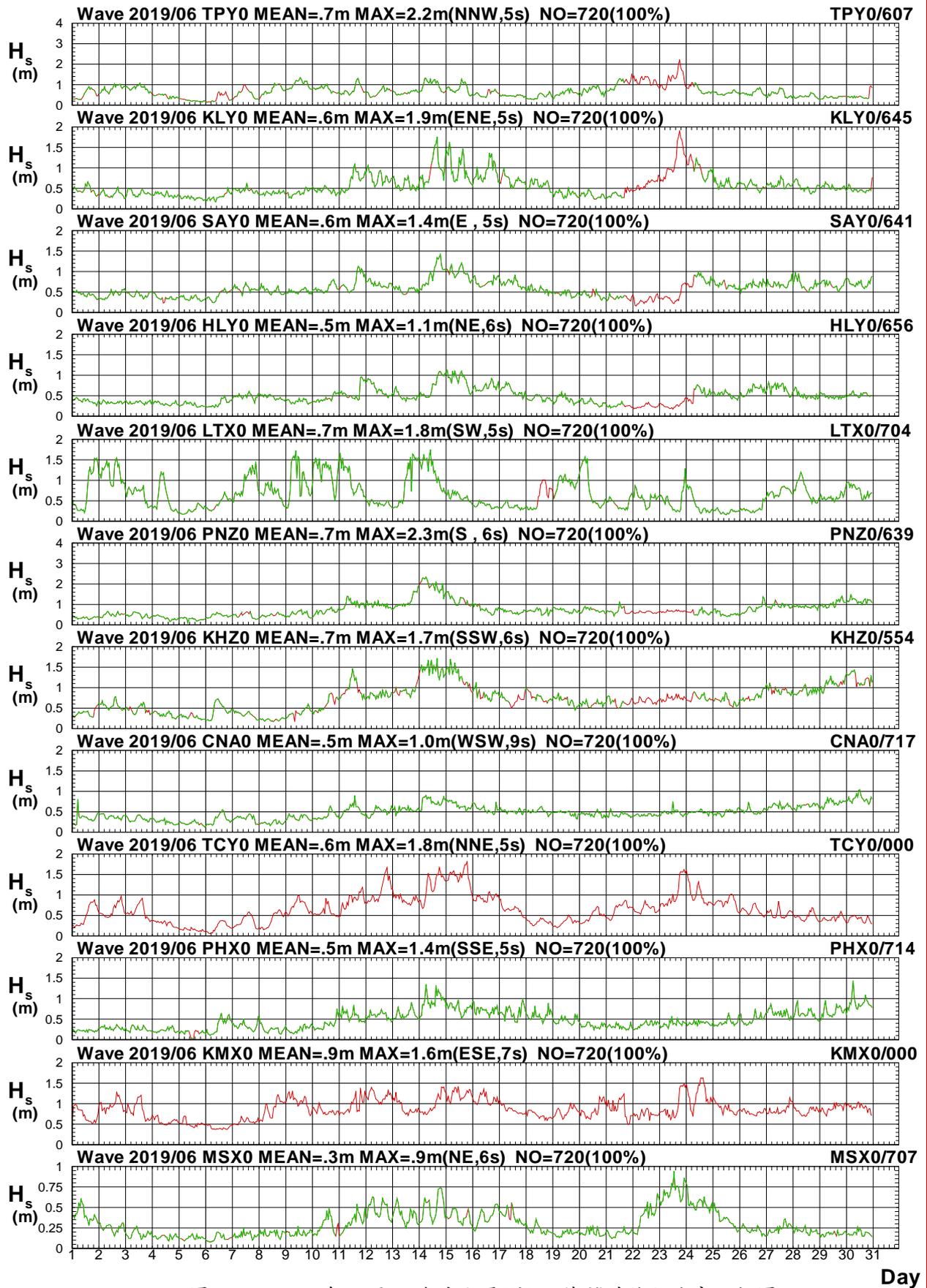


圖6.19 2019年6月12海域主要測站1修補前後之波高比較圖

V196TPY0.1HA V196TPY0.1HO V196KLY0.1HA V196KLY0.1HO V196SAY0.1HA V196SAY0.1HO
 V196HLY0.1HA V196HLY0.1HO V196LTX0.1HA V196LTX0.1HO V196PNZ0.1HA V196PNZ0.1HO

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Twelve Seas Wave T_p at 2019/06

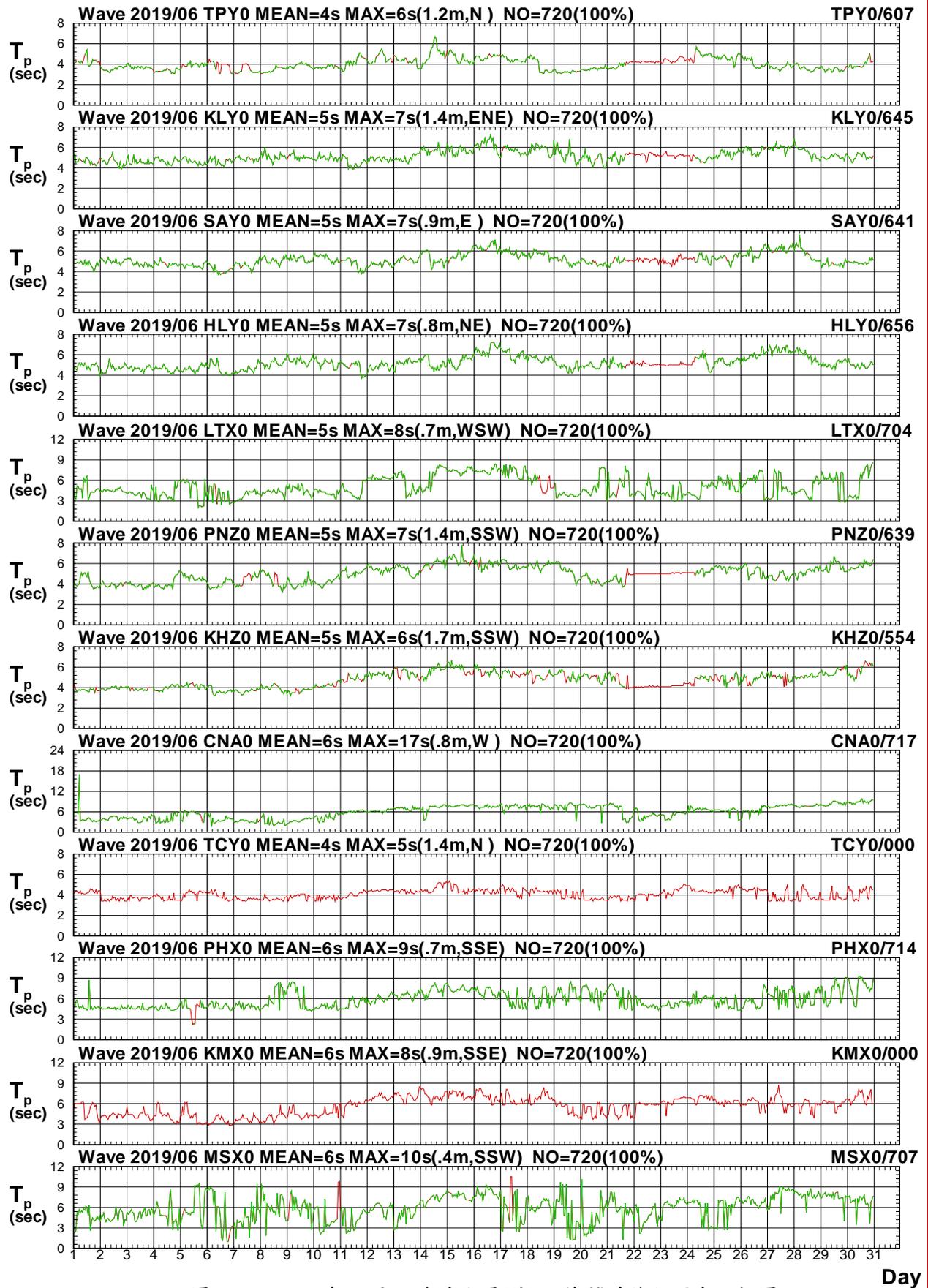


圖6.20 2019年6月12海域主要測站1修補前後之週期比較圖

V196TPY0.1HA V196TPY0.1H0 V196KLY0.1HA V196KLY0.1H0 V196SAY0.1HA V196SAY0.1H0
 V196HLY0.1HA V196HLY0.1H0 V196LTX0.1HA V196LTX0.1H0 V196PNZ0.1HA V196PNZ0.1H0

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Twelve Seas Wave Direction at 2019/06

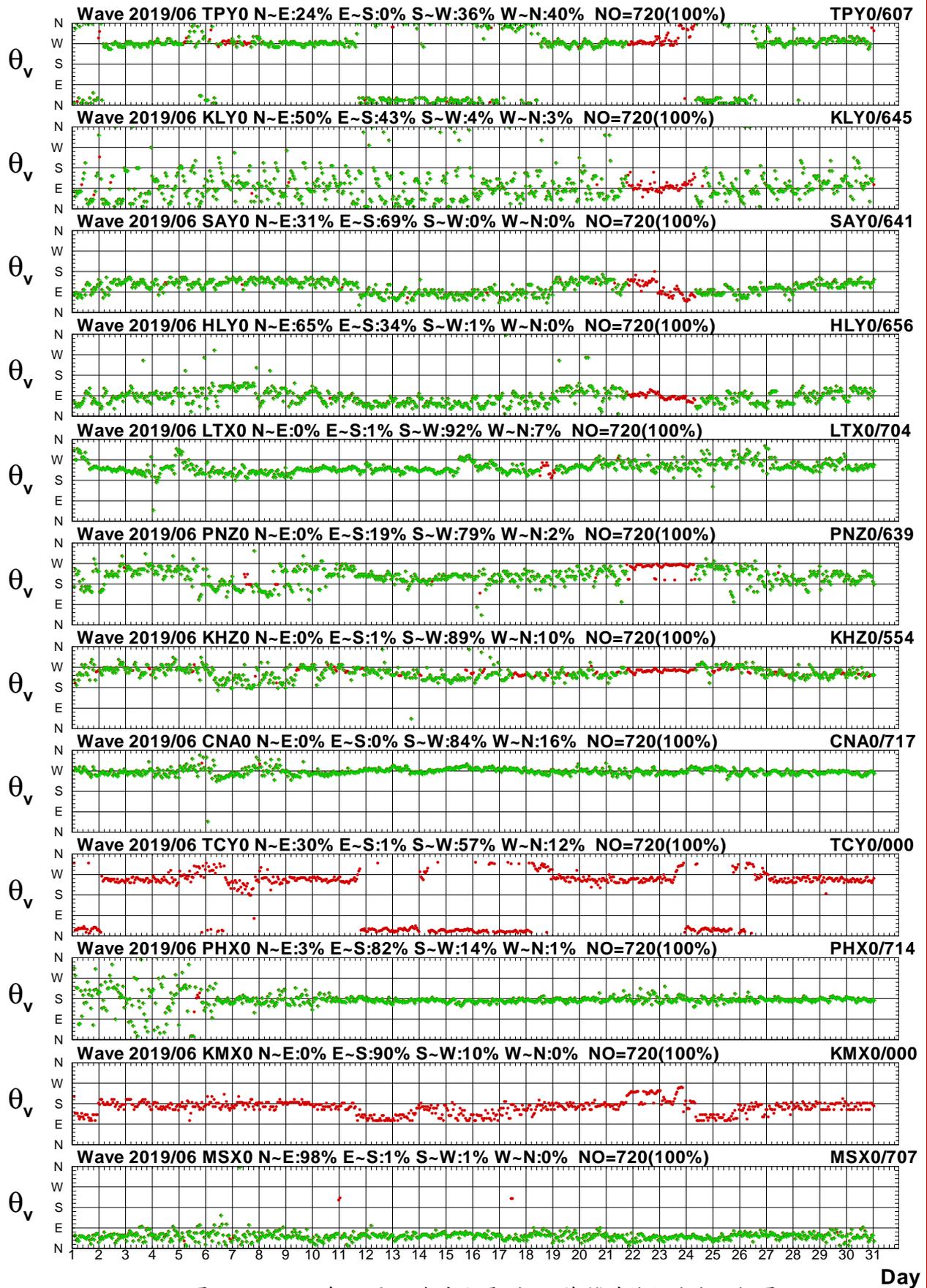


圖6.21 2019年6月12海域主要測站1修補前後之波向比較圖

V196TPY0.1HA V196TPY0.1HO V196KLY0.1HA V196KLY0.1HO V196SAY0.1HA V196SAY0.1HO
 V196HLY0.1HA V196HLY0.1HO V196LTX0.1HA V196LTX0.1HO V196PNZ0.1HA V196PNZ0.1HO

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Twelve Seas Wave H_s at 2019/07

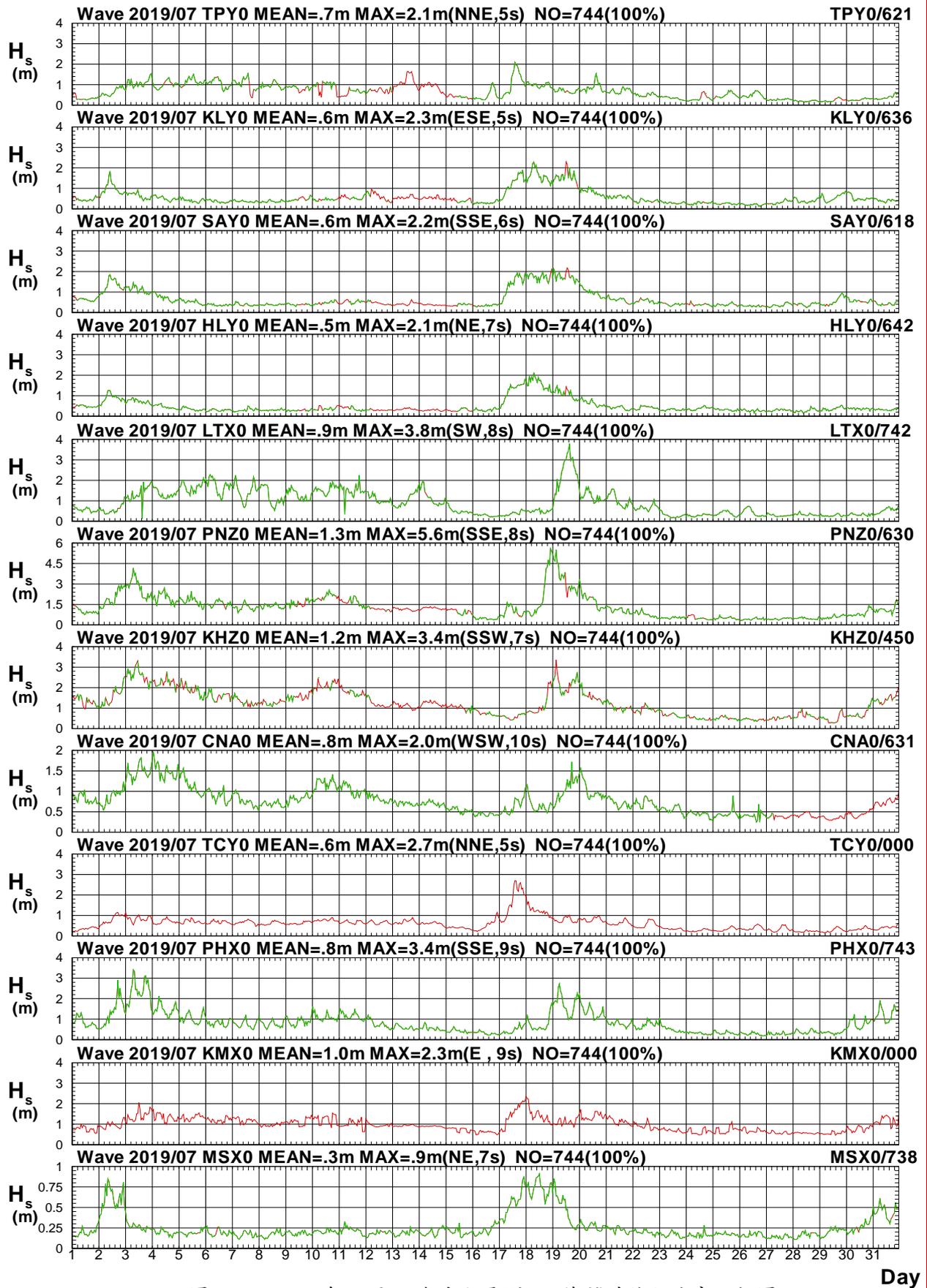


圖6.22 2019年7月12海域主要測站1修補前後之波高比較圖

V197TPY0.1HA V197TPY0.1HO V197KLY0.1HA V197KLY0.1HO V197SAY0.1HA V197SAY0.1HO
 V197HLY0.1HA V197HLY0.1HO V197LTX0.1HA V197LTX0.1HO V197PNZ0.1HA V197PNZ0.1HO

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Twelve Seas Wave T_p at 2019/07

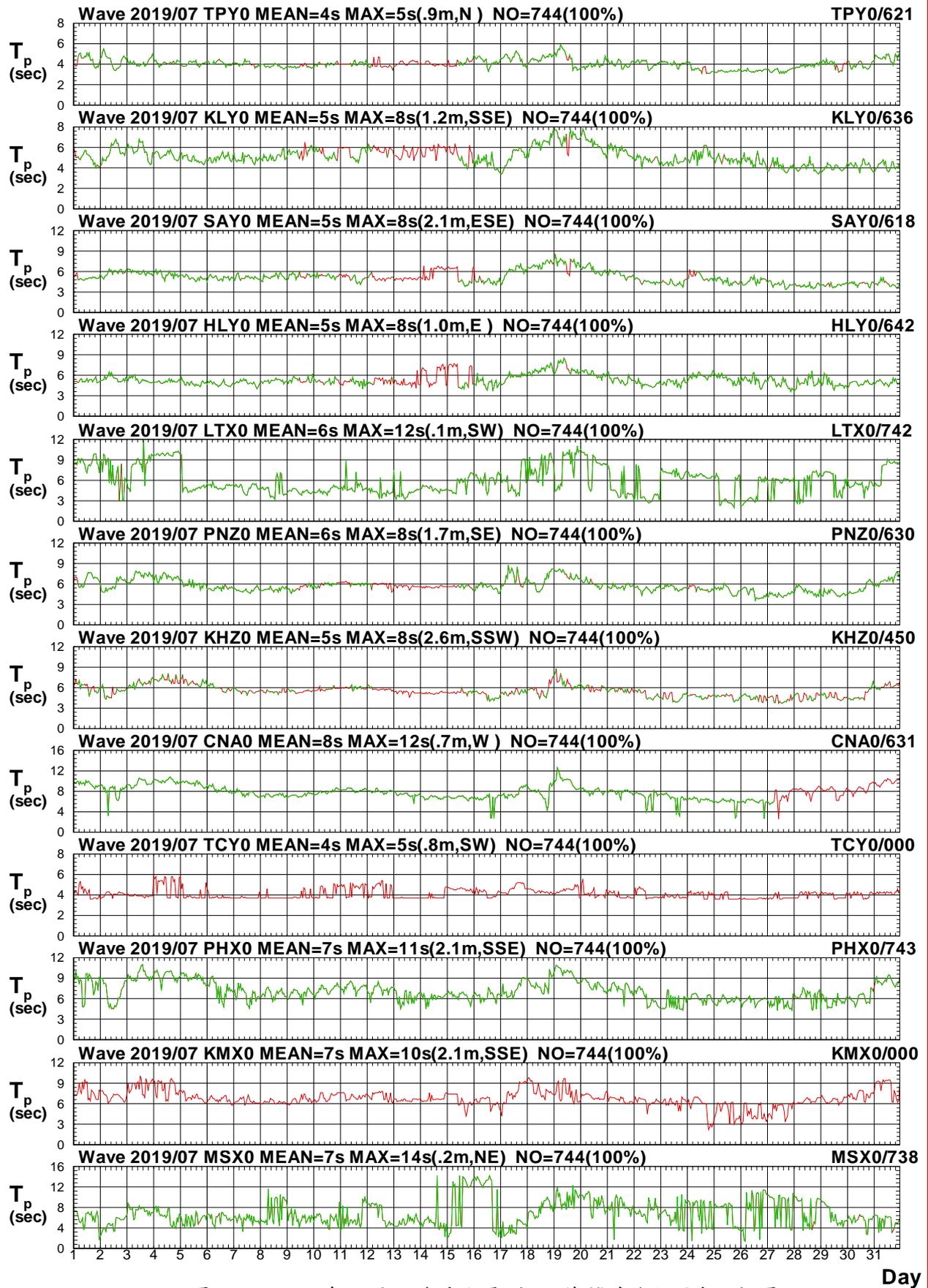


圖6.23 2019年7月12海域主要測站1修補前後之週期比較圖

V197TPY0.1HA V197TPY0.1HO V197KLY0.1HA V197KLY0.1HO V197SAY0.1HA V197SAY0.1HO
 V197HLY0.1HA V197HLY0.1HO V197LTX0.1HA V197LTX0.1HO V197PNZ0.1HA V197PNZ0.1HO

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Twelve Seas Wave Direction at 2019/07

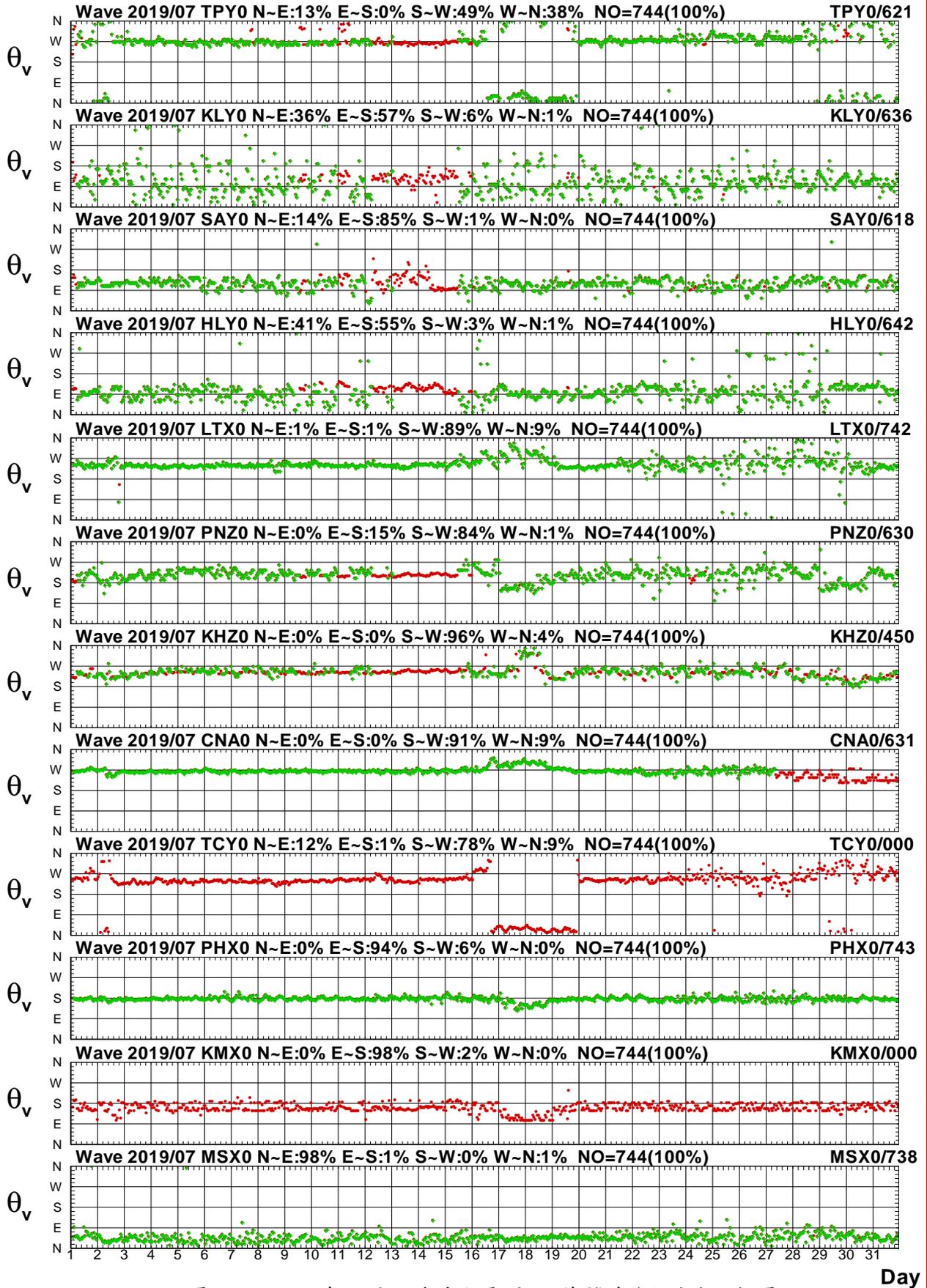


圖6.24 2019年7月12海域主要測站1修補前後之波向比較圖

V197TPY0.1HA V197TPY0.1HO V197KLY0.1HA V197KLY0.1HO V197SAY0.1HA V197SAY0.1HO
 V197HLY0.1HA V197HLY0.1HO V197LTX0.1HA V197LTX0.1HO V197PNZ0.1HA V197PNZ0.1HO

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Twelve Seas Wave H_s at 2019/08

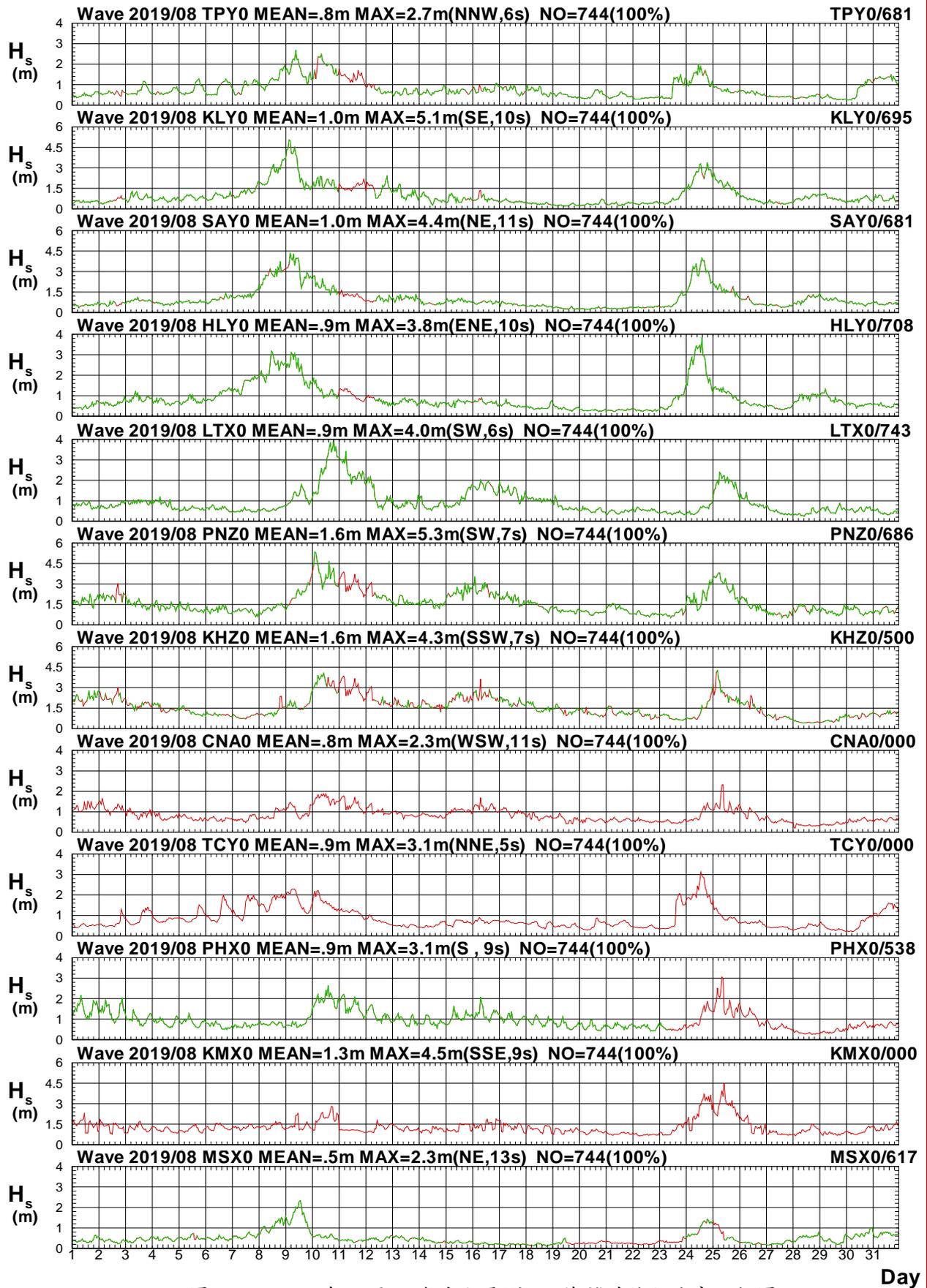


圖6.25 2019年8月12海域主要測站1修補前後之波高比較圖

V198TPY0.1HA V198TPY0.1HO V198KLY0.1HA V198KLY0.1HO V198SAY0.1HA V198SAY0.1HO
 V198HLY0.1HA V198HLY0.1HO V198LTX0.1HA V198LTX0.1HO V198PNZ0.1HA V198PNZ0.1HO

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Twelve Seas Wave T_p at 2019/08

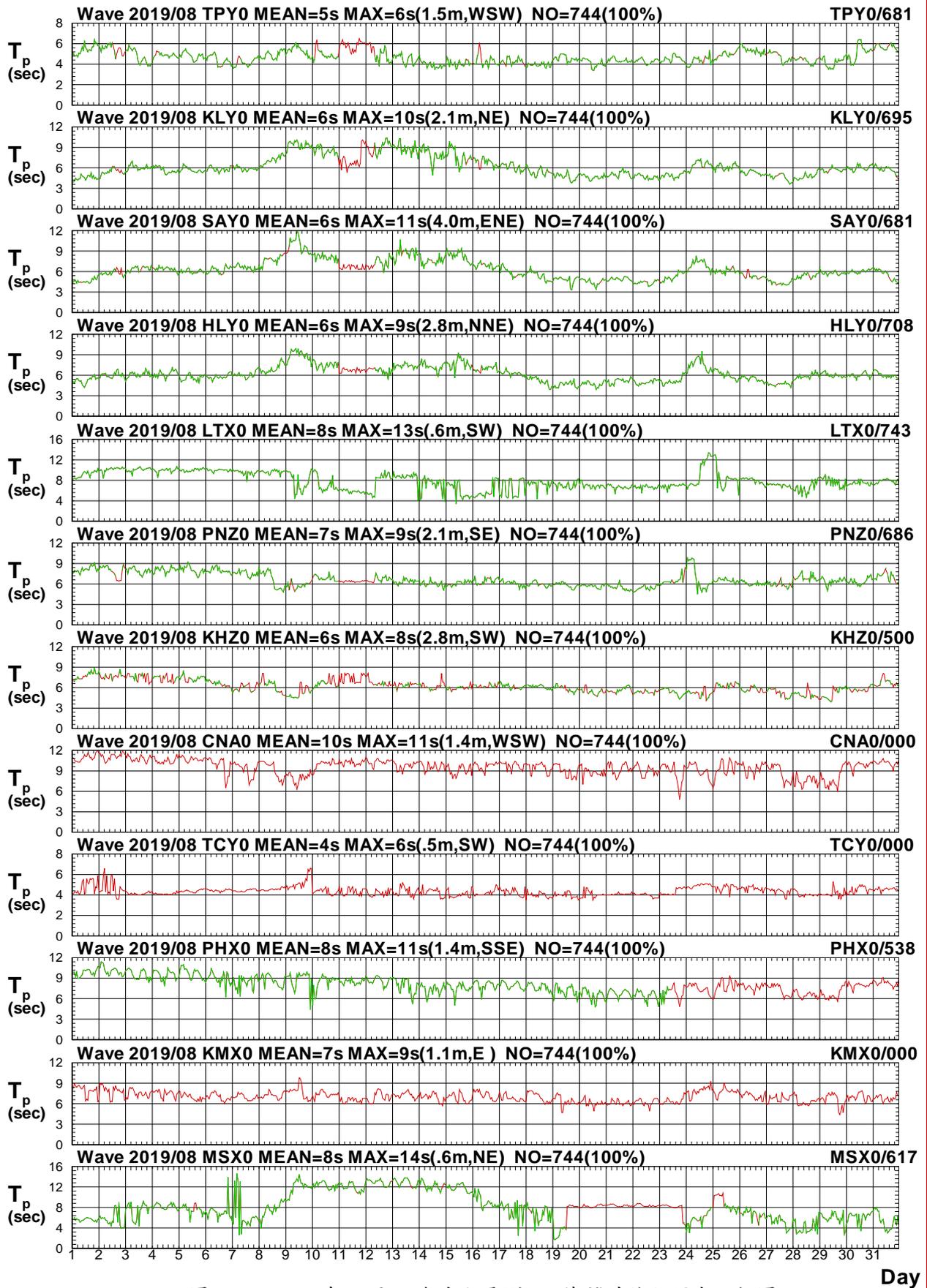


圖6.26 2019年8月12海域主要測站1修補前後之週期比較圖

V198TPY0.1HA V198TPY0.1HO V198KLY0.1HA V198KLY0.1HO V198SAY0.1HA V198SAY0.1HO
 V198HLY0.1HA V198HLY0.1HO V198LTX0.1HA V198LTX0.1HO V198PNZ0.1HA V198PNZ0.1HO

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Twelve Seas Wave Direction at 2019/08

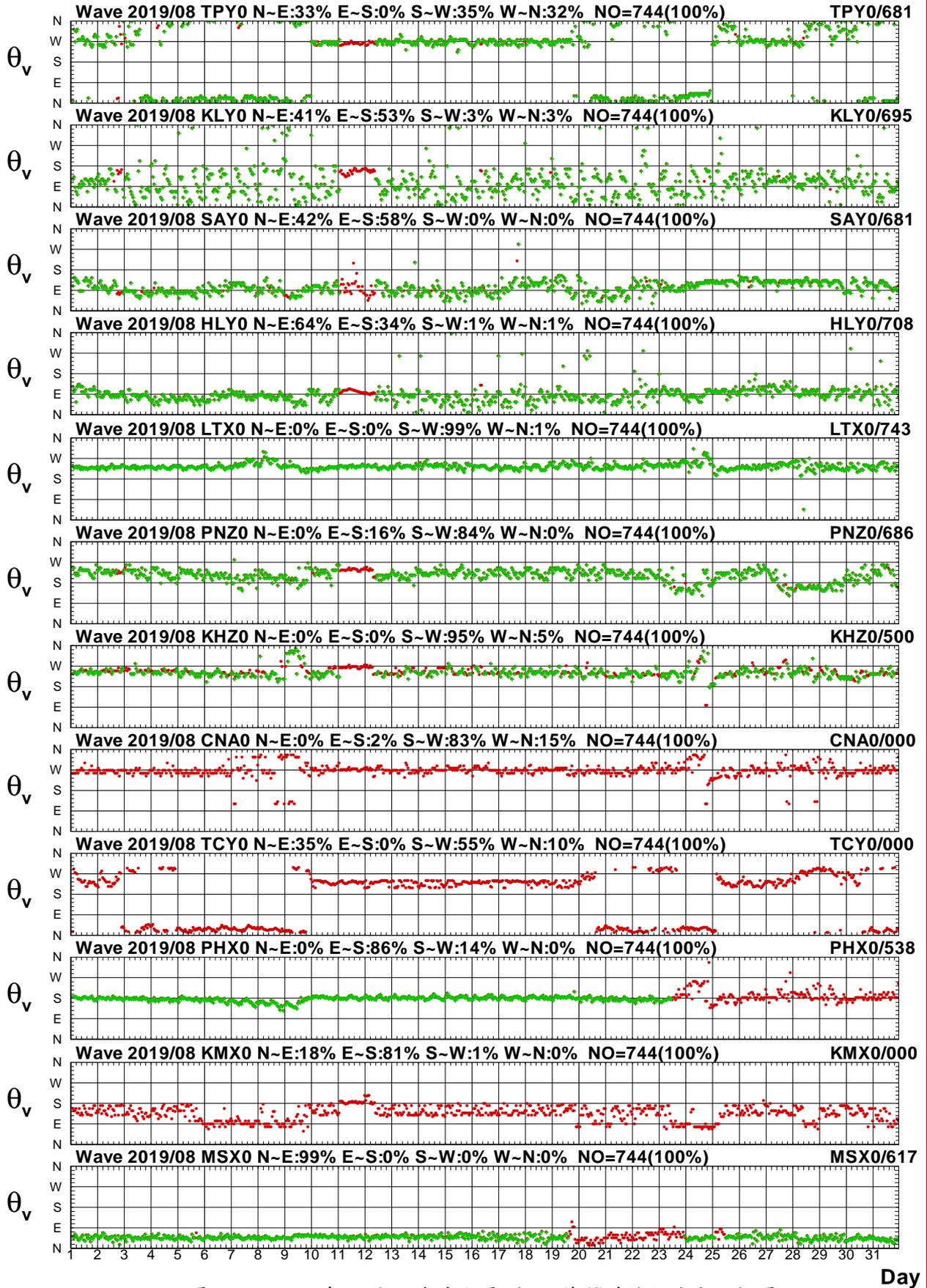


圖6.27 2019年8月12海域主要測站1修補前後之波向比較圖

V198TPY0.1HA V198TPY0.1HO V198KLY0.1HA V198KLY0.1HO V198SAY0.1HA V198SAY0.1HO
 V198HLY0.1HA V198HLY0.1HO V198LTX0.1HA V198LTX0.1HO V198PNZ0.1HA V198PNZ0.1HO

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Twelve Seas Wave H_s at 2019/09

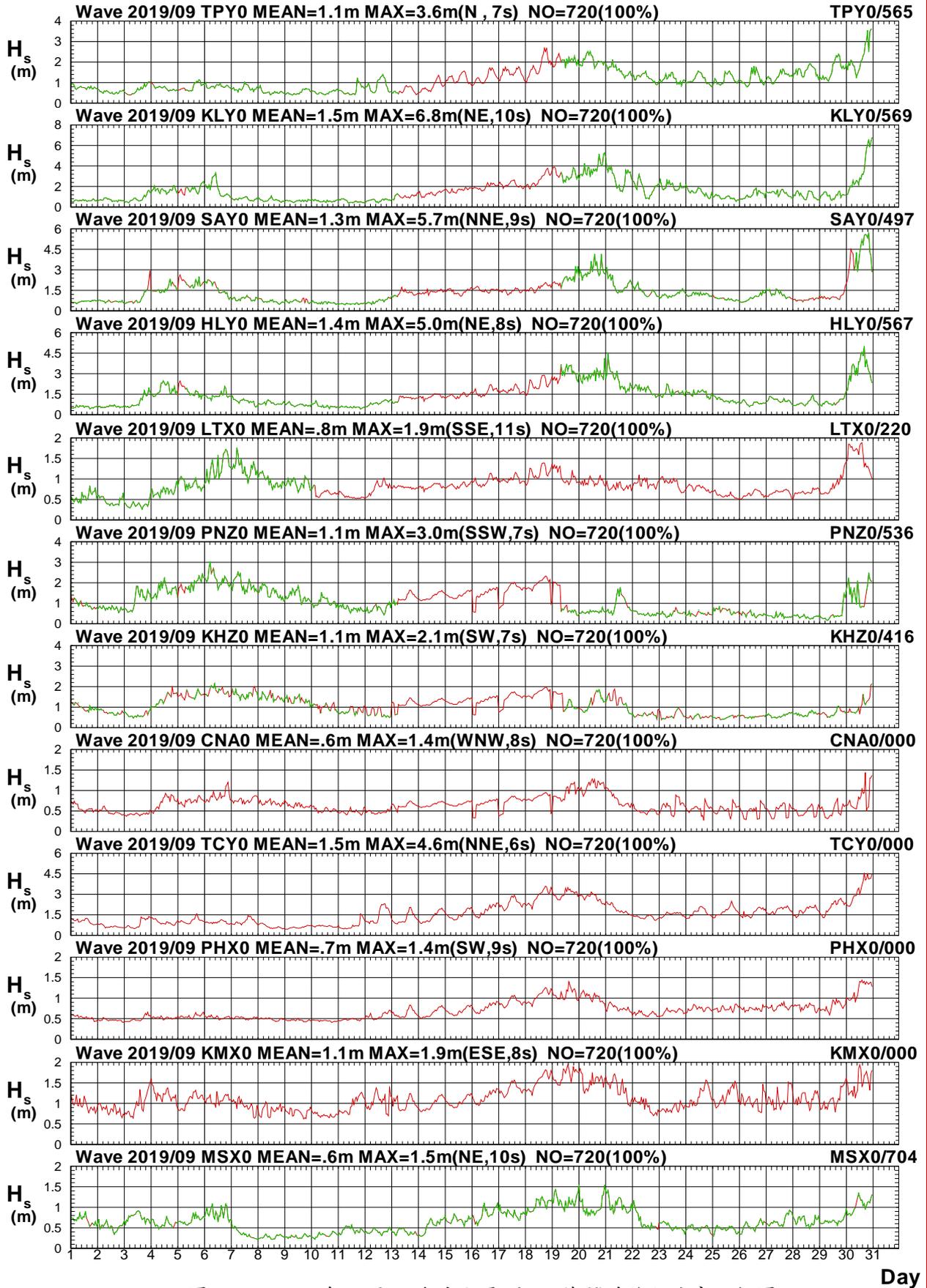


圖6.28 2019年9月12海域主要測站1修補前後之波高比較圖

V199TPY0.1HA V199TPY0.1HO V199KLY0.1HA V199KLY0.1HO V199SAY0.1HA V199SAY0.1HO
 V199HLY0.1HA V199HLY0.1HO V199LTX0.1HA V199LTX0.1HO V199PNZ0.1HA V199PNZ0.1HO

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Twelve Seas Wave T_p at 2019/09

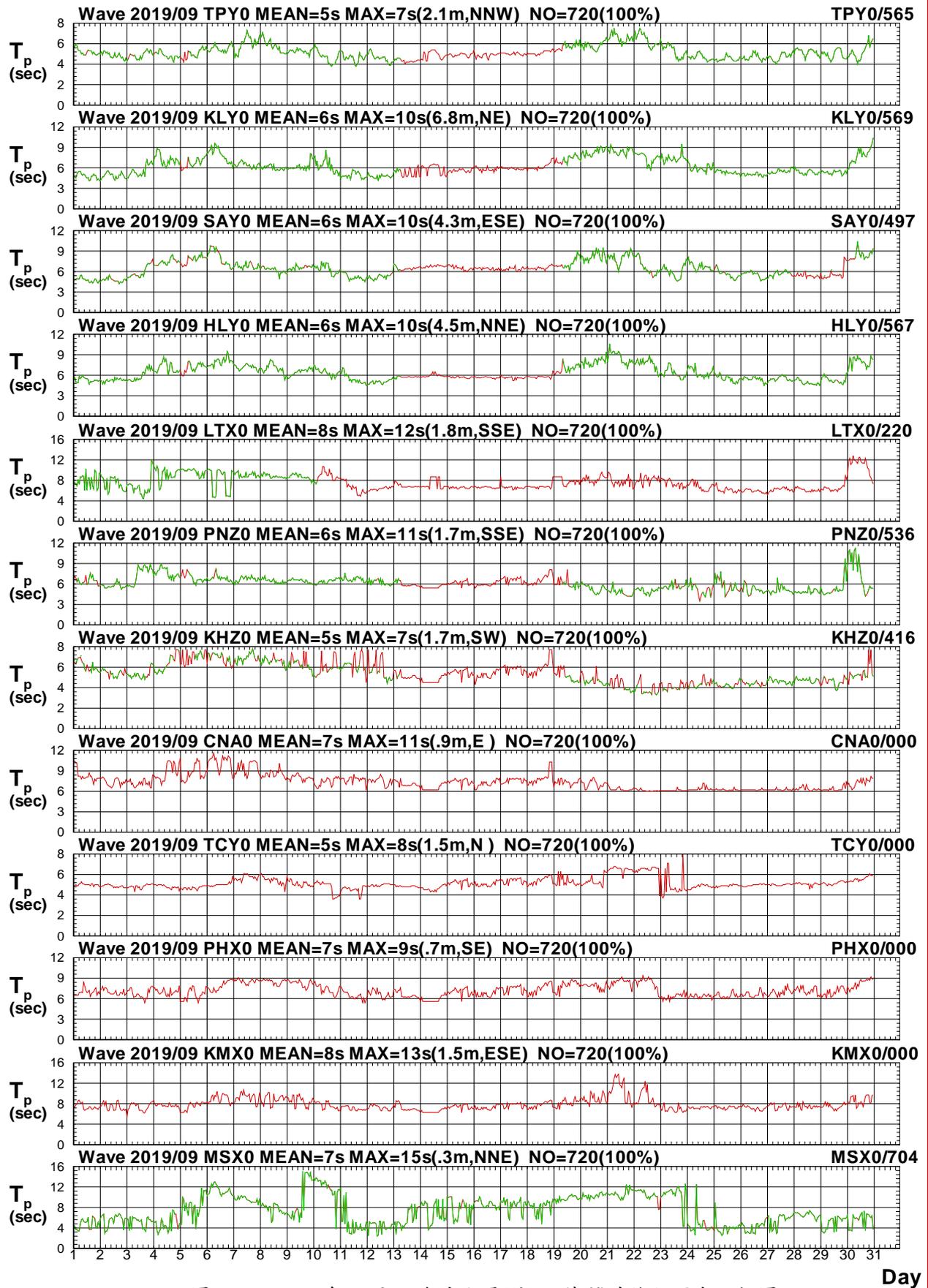


圖6.29 2019年9月12海域主要測站1修補前後之週期比較圖

V199TPY0.1HA V199TPY0.1HO V199KLY0.1HA V199KLY0.1HO V199SAY0.1HA V199SAY0.1HO
 V199HLY0.1HA V199HLY0.1HO V199LTX0.1HA V199LTX0.1HO V199PNZ0.1HA V199PNZ0.1HO

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Twelve Seas Wave Direction at 2019/09

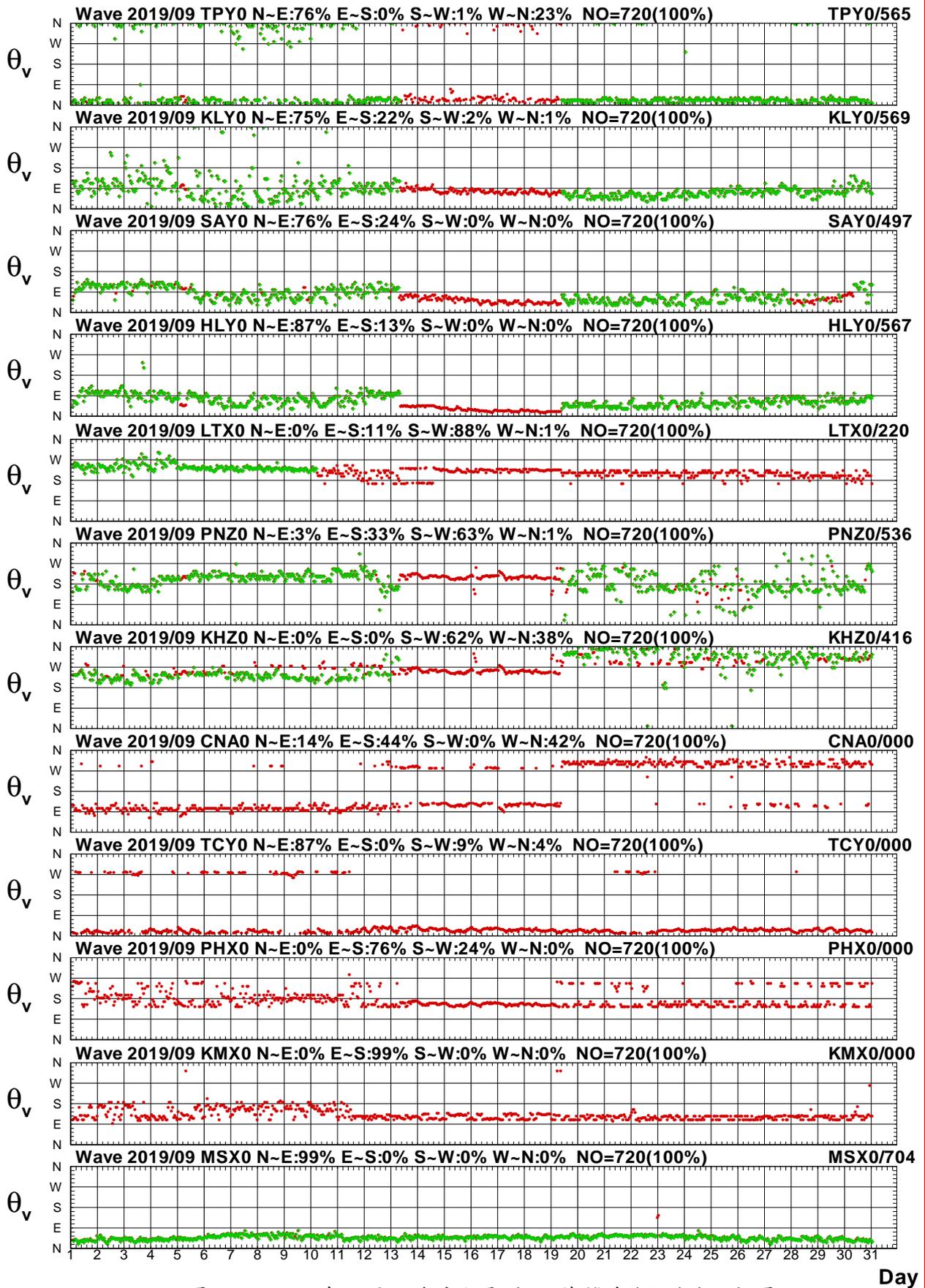


圖6.30 2019年9月12海域主要測站1修補前後之波向比較圖

V199TPY0.1HA V199TPY0.1HO V199KLY0.1HA V199KLY0.1HO V199SAY0.1HA V199SAY0.1HO
 V199HLY0.1HA V199HLY0.1HO V199LTX0.1HA V199LTX0.1HO V199PNZ0.1HA V199PNZ0.1HO

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Twelve Seas Wave H_s at 2019/10

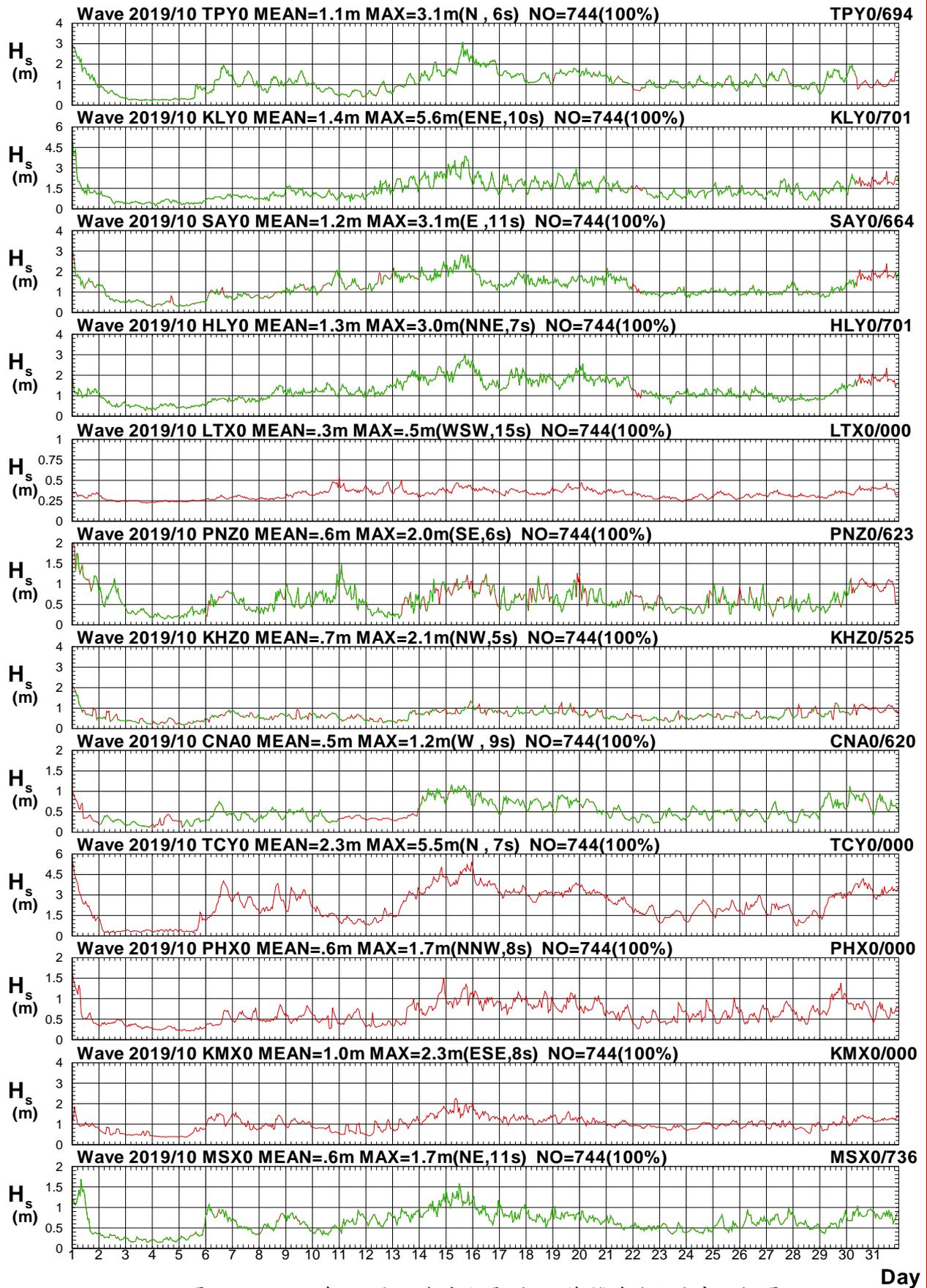


圖6.31 2019年10月12海域主要測站1修補前後之波高比較圖

V19ATPY0.1HA V19ATPY0.1H0 V19AKLY0.1HA V19AKLY0.1H0 V19ASAY0.1HA V19ASAY0.1H0
 V19AHL0.1HA V19AHL0.1H0 V19ALTX0.1HA V19ALTX0.1H0 V19APNZ0.1HA V19APNZ0.1H0

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Twelve Seas Wave T_p at 2019/10

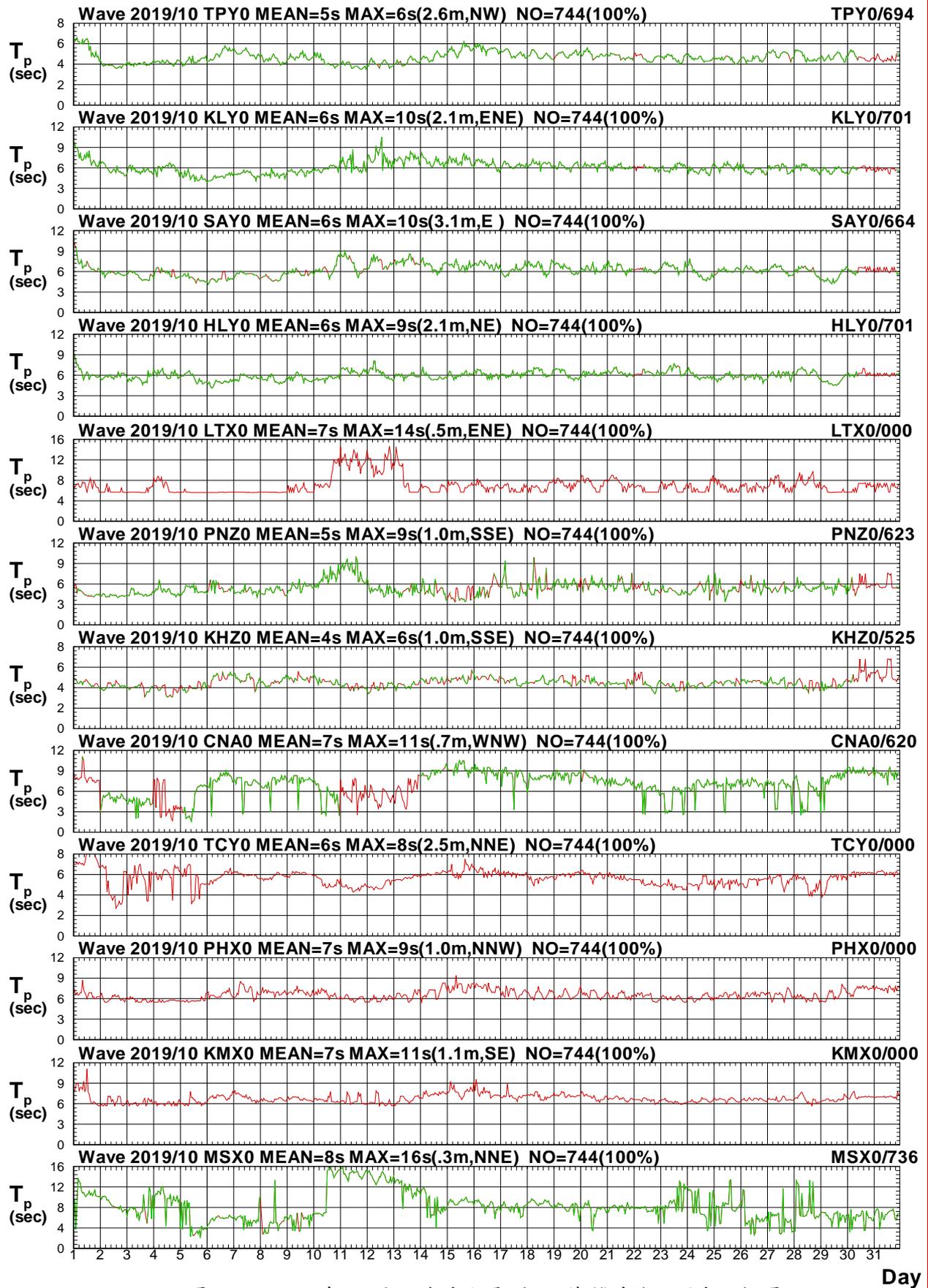


圖6.32 2019年10月12海域主要測站1修補前後之週期比較圖

V19ATPY0.1HA V19ATPY0.1H0 V19AKLY0.1HA V19AKLY0.1H0 V19ASAY0.1HA V19ASAY0.1H0
 V19AHL0.1HA V19AHL0.1H0 V19ALTX0.1HA V19ALTX0.1H0 V19APNZ0.1HA V19APNZ0.1H0

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Twelve Seas Wave Direction at 2019/10

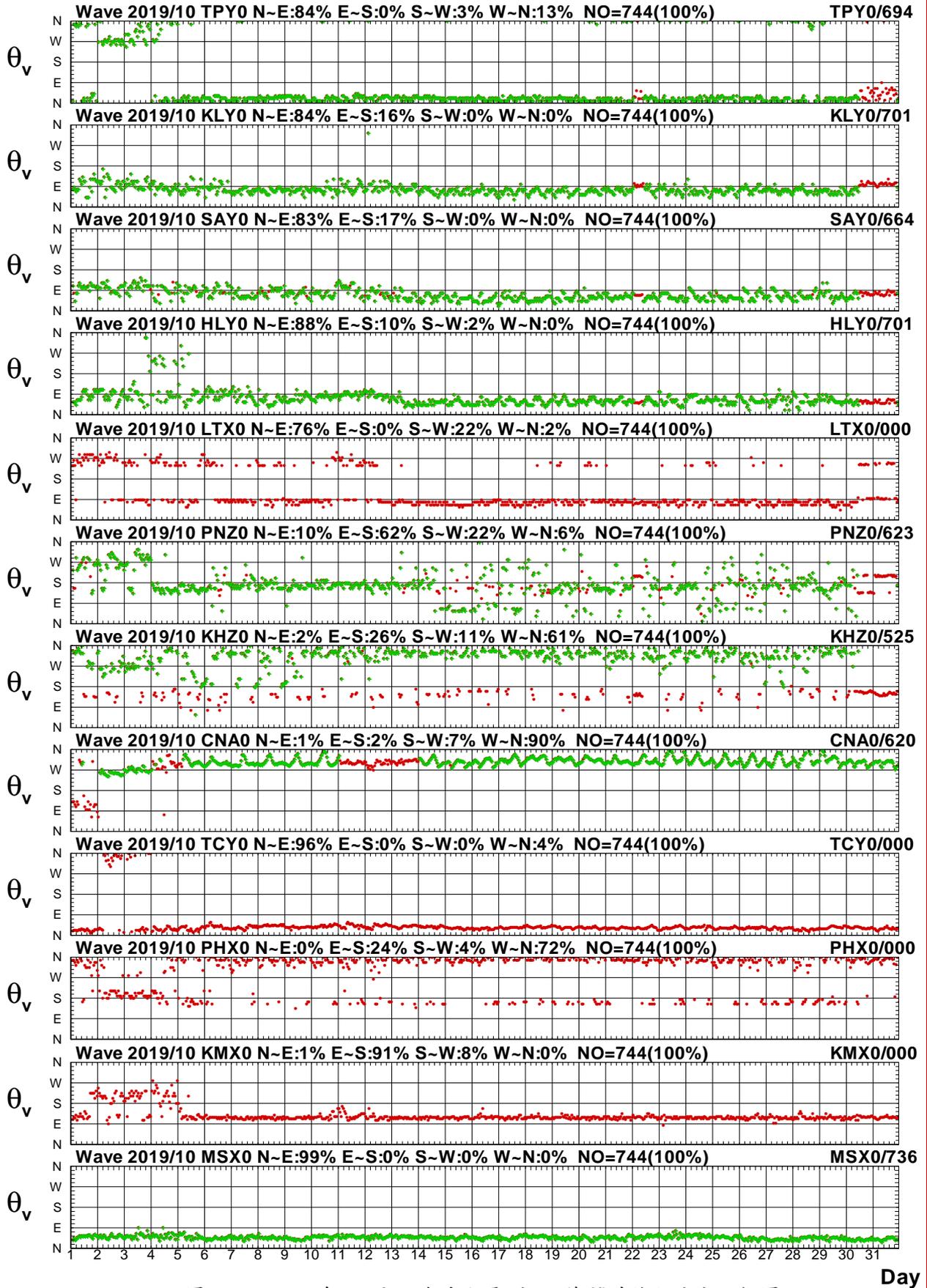


圖6.33 2019年10月12海域主要測站1修補前後之波向比較圖

V19ATPY0.1HA V19ATPY0.1H0 V19AKLY0.1HA V19AKLY0.1H0 V19ASAY0.1HA V19ASAY0.1H0
 V19AHL0.1HA V19AHL0.1H0 V19ALTX0.1HA V19ALTX0.1H0 V19APNZ0.1HA V19APNZ0.1H0

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Twelve Seas Wave H_s at 2019/11

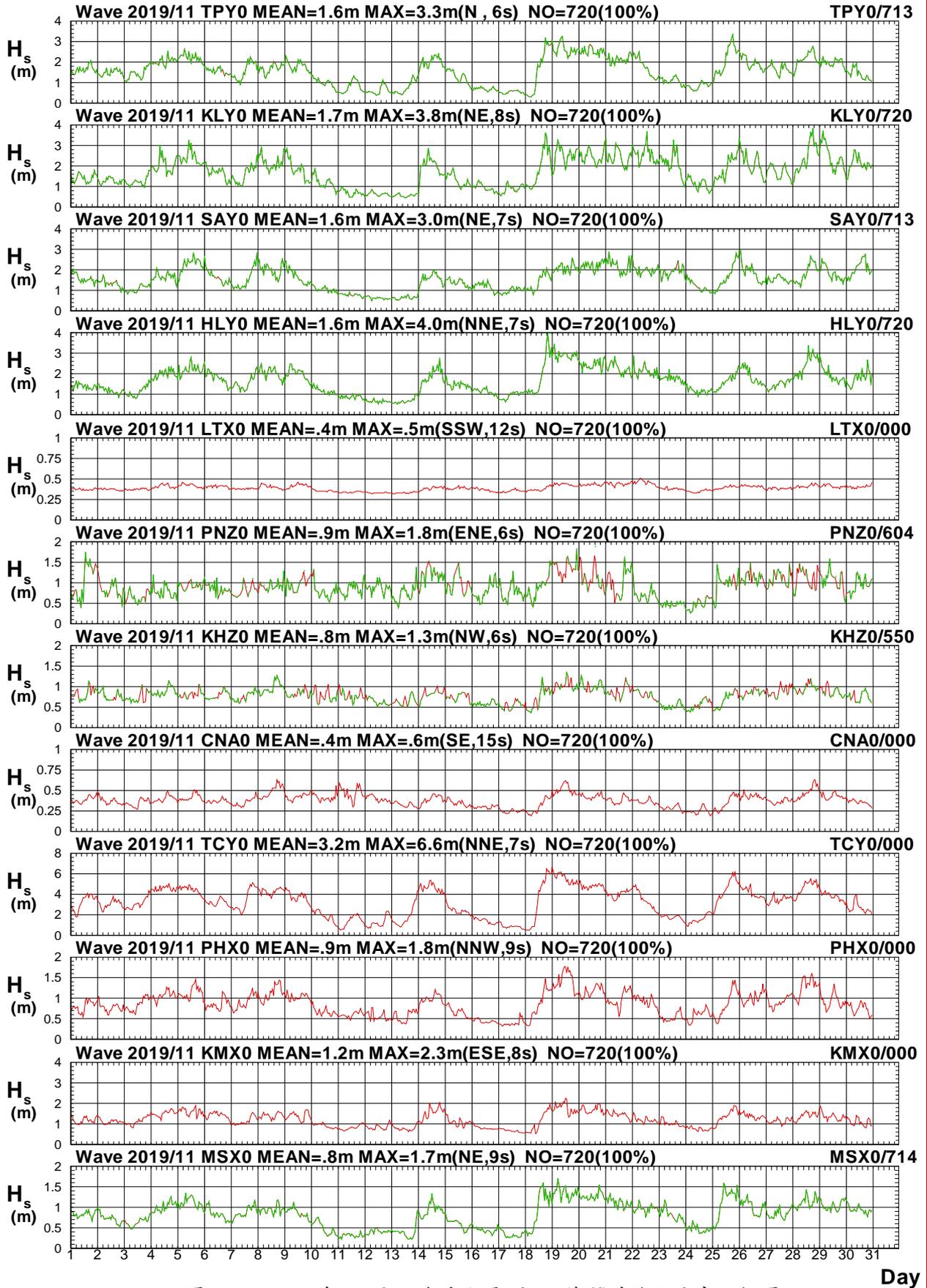


圖6.34 2019年11月12海域主要測站1修補前後之波高比較圖

V19BTPY0.1HA V19BTPY0.1H0 V19BKLY0.1HA V19BKLY0.1H0 V19BSAY0.1HA V19BSAY0.1H0
 V19BHLY0.1HA V19BHLY0.1H0 V19BLTX0.1HA V19BLTX0.1H0 V19BPNZ0.1HA V19BPNZ0.1H0

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Twelve Seas Wave T_p at 2019/11

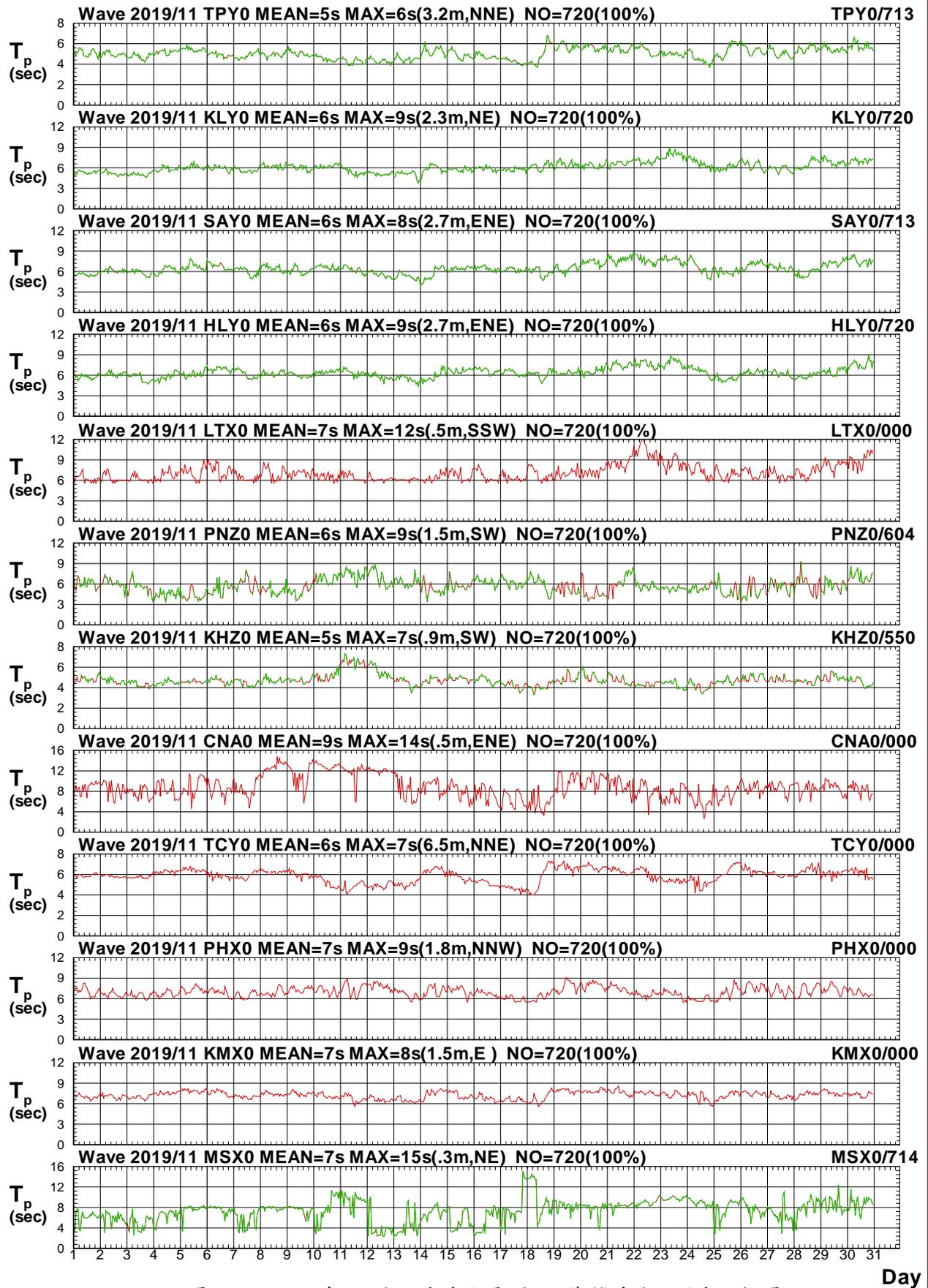


圖6.35 2019年11月12海域主要測站1修補前後之週期比較圖

V19BTPY0.1HA V19BTPY0.1H0 V19BKLY0.1HA V19BKLY0.1H0 V19BSAY0.1HA V19BSAY0.1H0
 V19BHLY0.1HA V19BHLY0.1H0 V19BLTX0.1HA V19BLTX0.1H0 V19BPNZ0.1HA V19BPNZ0.1H0

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Twelve Seas Wave Direction at 2019/11

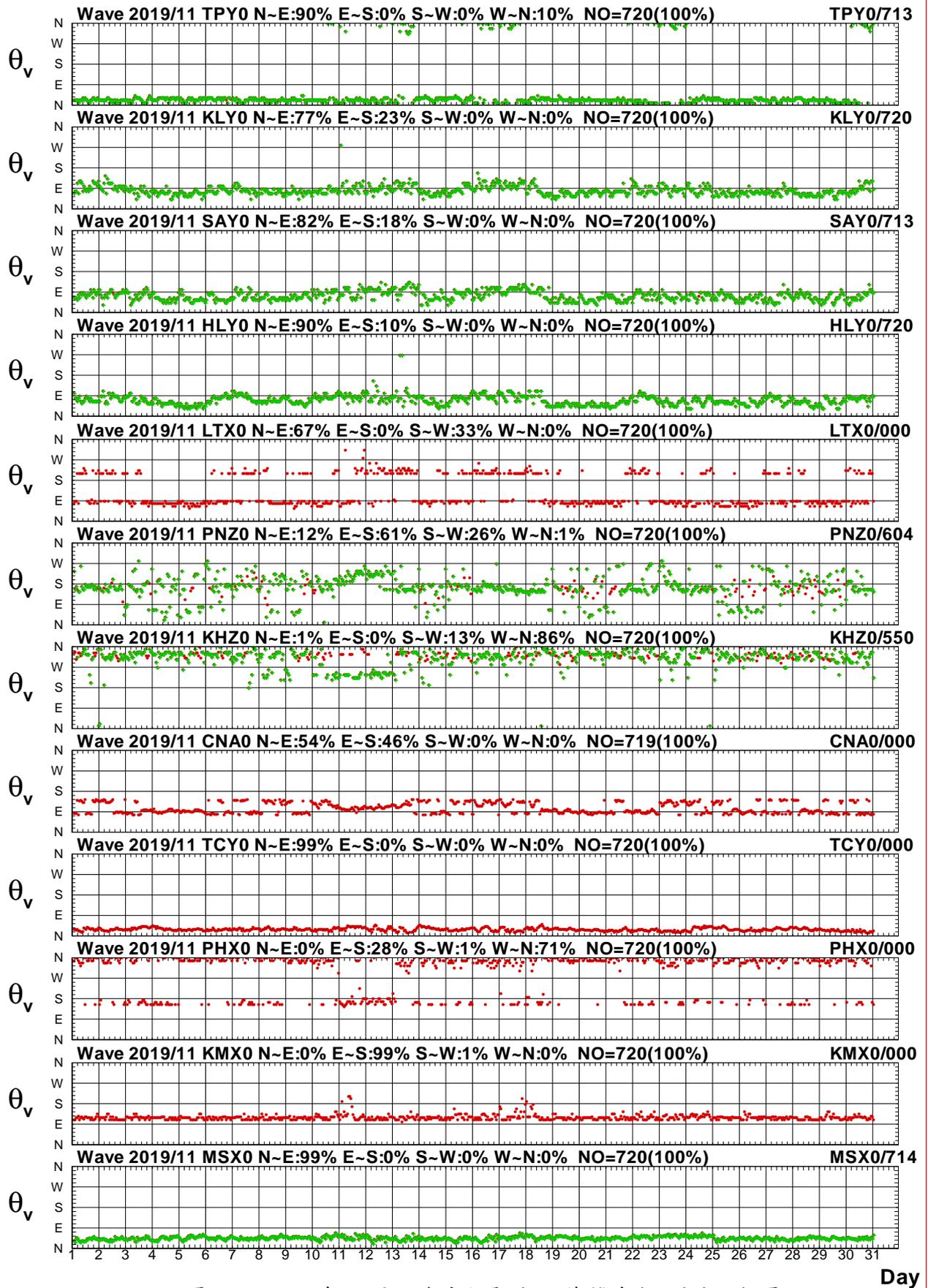


圖6.36 2019年11月12海域主要測站1修補前後之波向比較圖

V19BTPY0.1HA V19BTPY0.1H0 V19BKLY0.1HA V19BKLY0.1H0 V19BSAY0.1HA V19BSAY0.1H0
 V19BHLY0.1HA V19BHLY0.1H0 V19BLTX0.1HA V19BLTX0.1H0 V19BPNZ0.1HA V19BPNZ0.1H0

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第七章 2019 年 12 海域波浪主要測站 2 修補前後波高向量分佈圖

(北苗海域)

(北端海域)

(宜蘭海域)

(花蓮海域)

(臺東海域)

(屏東海域)

(高雄海域)

(嘉南海域)

(中雲海域)

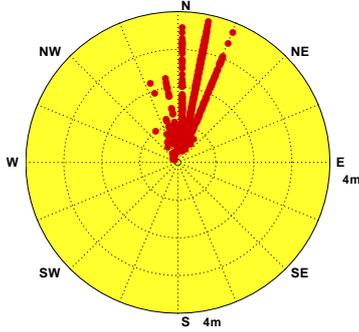
(澎湖海域)

(金門海域)

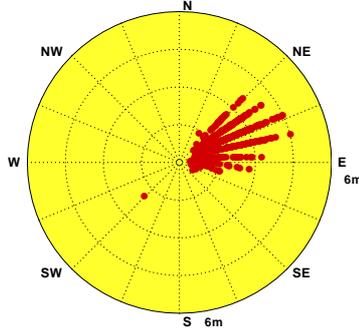
(馬祖海域)

Distribution of H_s Vectors

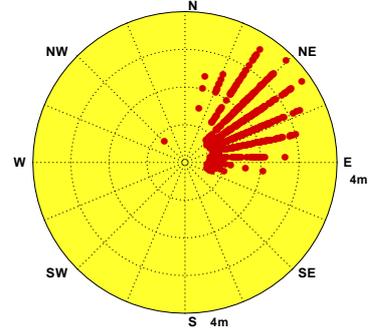
Wave of TPY0 at 2018/12 NO=652(88%)
Hs : MEAN=1.7m MAX=4.1m(N, 7s)
N-E:85% E-S:0% S-W:0% W-N:15%



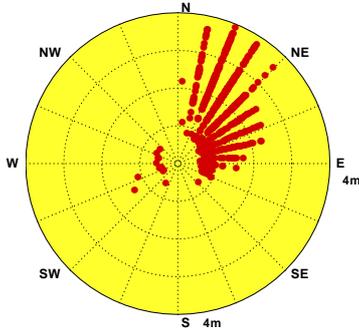
Wave of KLY0 at 2018/12 NO=619(83%)
Hs : MEAN=1.7m MAX=4.3m(ENE,8s)
N-E:74% E-S:26% S-W:0% W-N:0%



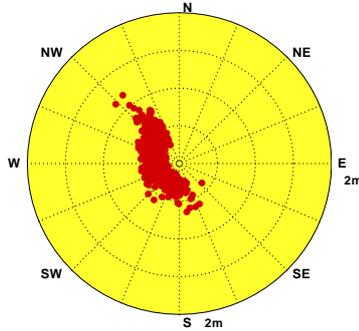
Wave of SAY0 at 2018/12 NO=646(87%)
Hs : MEAN=1.6m MAX=3.6m(NE,8s)
N-E:81% E-S:19% S-W:0% W-N:0%



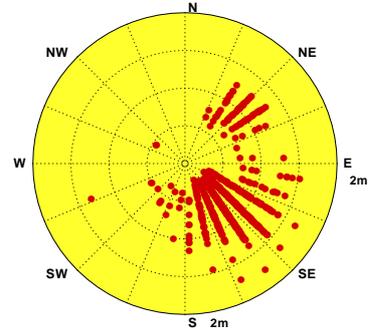
Wave of HLY0 at 2018/12 NO=652(88%)
Hs : MEAN=1.7m MAX=3.7m(NNE,7s)
N-E:85% E-S:13% S-W:1% W-N:1%



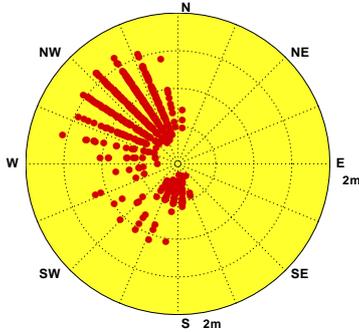
Wave of LTX0 at 2018/12 NO=738(99%)
Hs : MEAN=.4m MAX=1.2m(NW,7s)
N-E:0% E-S:2% S-W:46% W-N:52%



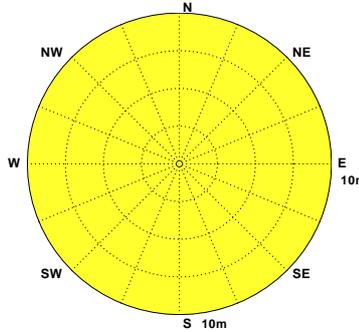
Wave of PNZ0 at 2018/12 NO=660(89%)
Hs : MEAN=.8m MAX=1.8m(SE,6s)
N-E:12% E-S:84% S-W:4% W-N:0%



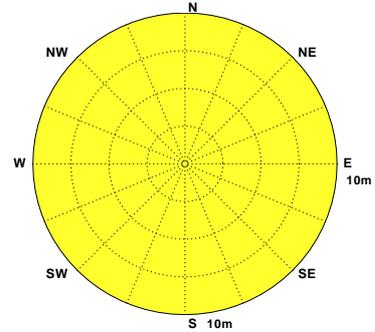
Wave of KHZ0 at 2018/12 NO=574(77%)
Hs : MEAN=.8m MAX=1.6m(W, 5s)
N-E:1% E-S:1% S-W:17% W-N:81%



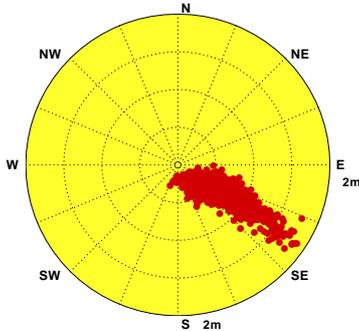
Wave of CNA0 at 2018/12



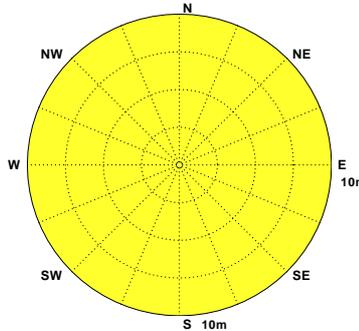
Wave of TCY0 at 2018/12



Wave of PHX0 at 2018/12 NO=744(100%)
Hs : MEAN=.7m MAX=1.9m(SE,10s)
N-E:0% E-S:98% S-W:2% W-N:0%



Wave of KMX0 at 2018/12



Wave of MSX0 at 2018/12 NO=733(99%)
Hs : MEAN=.8m MAX=1.9m(NE,8s)
N-E:99% E-S:0% S-W:0% W-N:0%

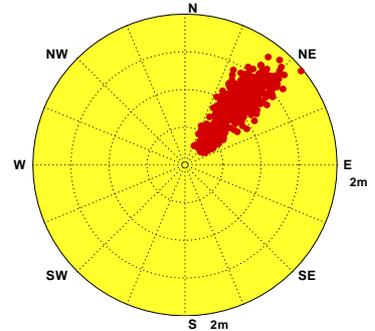


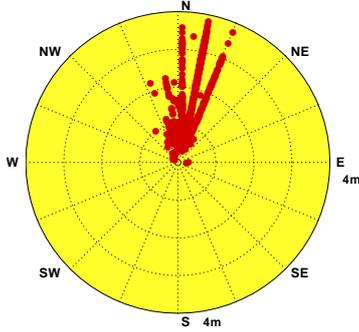
圖7.1a 2018年12月12海域主要測站2修補前波高向量分佈圖

V18CTPY0.1H0 V18CKLY0.1H0 V18CSAY0.1H0 V18CHLY0.1H0 V18CLTX0.1H0 V18CPNZ0.1H0
V18CKHZ0.1H0 V18CCNA0.1H0 V18CTCY0.1H0 V18CPHX0.1H0 V18CKMX0.1H0 V18CMSX0.1H0

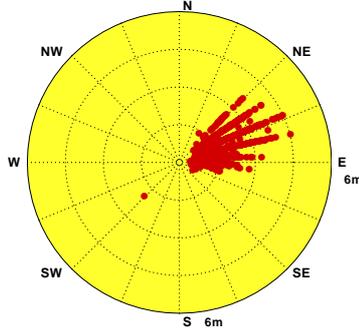
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Distribution of H_s Vectors

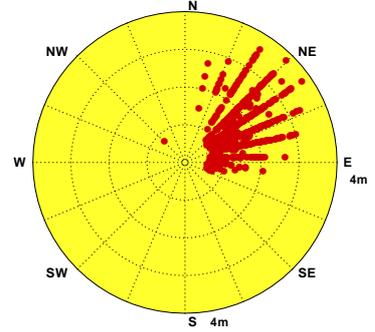
Wave of TPY0 at 2018/12 NO=744(100%)
 Hs : MEAN=1.6m MAX=4.1m(N, 7s)
 N-E:78% E-S:0% S-W:0% W-N:22%



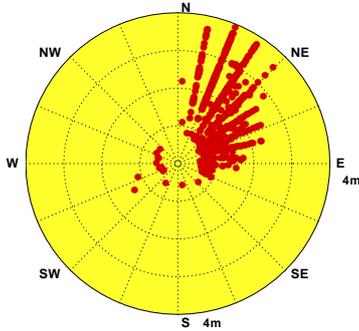
Wave of KLY0 at 2018/12 NO=744(100%)
 Hs : MEAN=1.7m MAX=4.3m(ENE,8s)
 N-E:70% E-S:30% S-W:0% W-N:0%



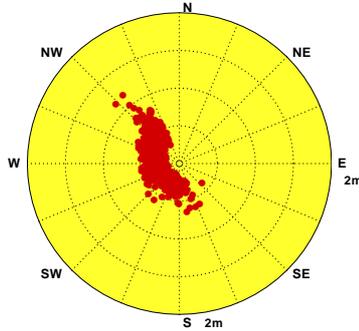
Wave of SAY0 at 2018/12 NO=744(100%)
 Hs : MEAN=1.6m MAX=3.6m(NE,8s)
 N-E:82% E-S:18% S-W:0% W-N:0%



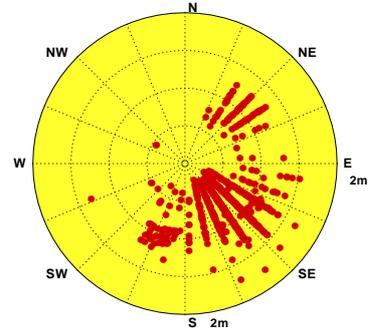
Wave of HLY0 at 2018/12 NO=744(100%)
 Hs : MEAN=1.7m MAX=3.7m(NNE,7s)
 N-E:86% E-S:12% S-W:1% W-N:1%



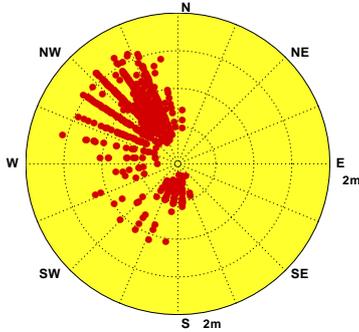
Wave of LTX0 at 2018/12 NO=744(100%)
 Hs : MEAN=.4m MAX=1.2m(NW,7s)
 N-E:0% E-S:2% S-W:47% W-N:51%



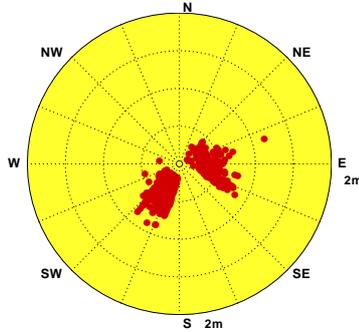
Wave of PNZ0 at 2018/12 NO=744(100%)
 Hs : MEAN=.9m MAX=1.8m(SE,6s)
 N-E:10% E-S:80% S-W:10% W-N:0%



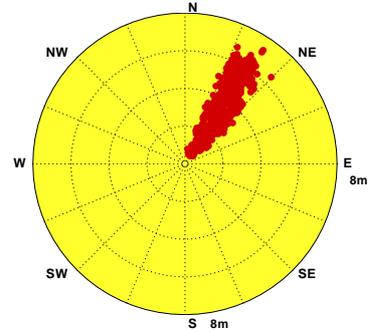
Wave of KHZ0 at 2018/12 NO=744(100%)
 Hs : MEAN=.8m MAX=1.6m(W, 5s)
 N-E:0% E-S:0% S-W:13% W-N:87%



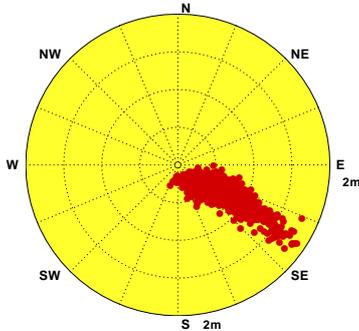
Wave of CNA0 at 2018/12 NO=744(100%)
 Hs : MEAN=.5m MAX=2.4m(ESE,17s)
 N-E:5% E-S:22% S-W:73% W-N:0%



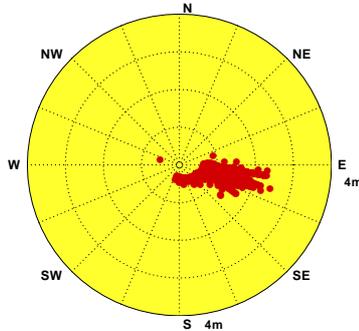
Wave of TCY0 at 2018/12 NO=744(100%)
 Hs : MEAN=3.1m MAX=6.9m(NE,7s)
 N-E:99% E-S:0% S-W:0% W-N:1%



Wave of PHX0 at 2018/12 NO=744(100%)
 Hs : MEAN=.7m MAX=1.9m(SE,10s)
 N-E:0% E-S:98% S-W:2% W-N:0%



Wave of KMX0 at 2018/12 NO=744(100%)
 Hs : MEAN=1.2m MAX=2.4m(ESE,8s)
 N-E:0% E-S:99% S-W:1% W-N:0%



Wave of MSX0 at 2018/12 NO=744(100%)
 Hs : MEAN=.8m MAX=1.9m(NE,8s)
 N-E:99% E-S:0% S-W:0% W-N:0%

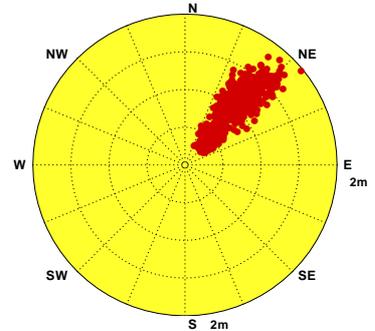


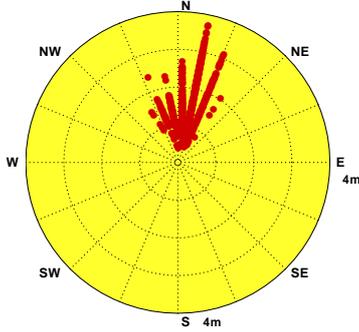
圖7.1b 2018年12月12海域主要測站2修補後波高向量分佈圖

V18CTPY0.1HA V18CKLY0.1HA V18CSAY0.1HA V18CHLY0.1HA V18CLTX0.1HA V18CPNZ0.1HA
 V18CKHZ0.1HA V18CCNA0.1HA V18CTCY0.1HA V18CPHX0.1HA V18CKMX0.1HA V18CMSX0.1HA

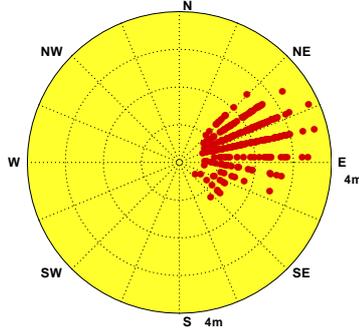
Institute of Harbor & Marine Technology

Distribution of H_s Vectors

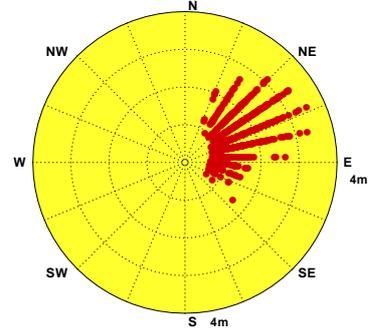
Wave of TPY0 at 2019/01 NO=721(97%)
 Hs : MEAN=1.5m MAX=3.6m(N, 7s)
 N-E:83% E-S:0% S-W:0% W-N:17%



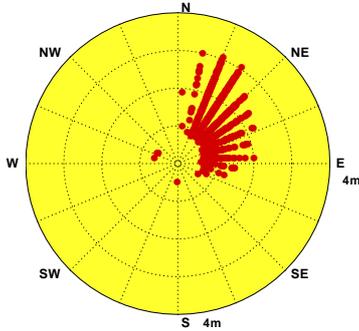
Wave of KLY0 at 2019/01 NO=286(38%)
 Hs : MEAN=1.7m MAX=3.6m(ENE,8s)
 N-E:76% E-S:24% S-W:0% W-N:0%



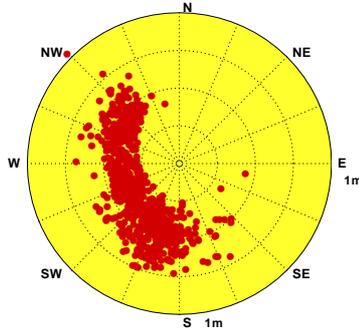
Wave of SAY0 at 2019/01 NO=710(95%)
 Hs : MEAN=1.5m MAX=3.3m(ENE,7s)
 N-E:76% E-S:24% S-W:0% W-N:0%



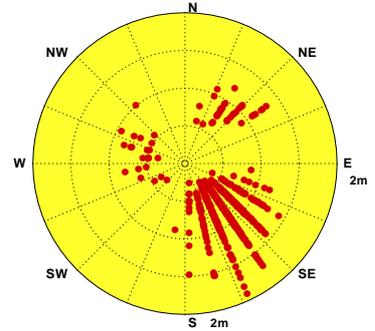
Wave of HLY0 at 2019/01 NO=736(99%)
 Hs : MEAN=1.4m MAX=2.9m(NNE,7s)
 N-E:87% E-S:13% S-W:0% W-N:0%



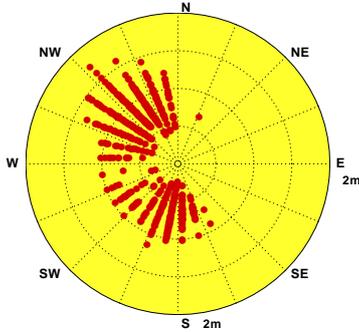
Wave of LTX0 at 2019/01 NO=738(99%)
 Hs : MEAN=.5m MAX=1.0m(NW,6s)
 N-E:0% E-S:4% S-W:64% W-N:32%



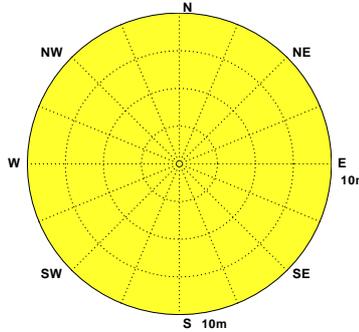
Wave of PNZ0 at 2019/01 NO=711(96%)
 Hs : MEAN=.9m MAX=2.0m(SSE,7s)
 N-E:5% E-S:90% S-W:3% W-N:2%



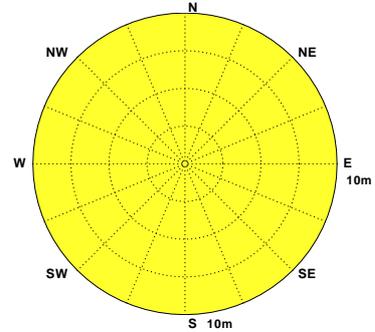
Wave of KHZ0 at 2019/01 NO=602(81%)
 Hs : MEAN=.8m MAX=1.7m(NW,5s)
 N-E:0% E-S:3% S-W:34% W-N:63%



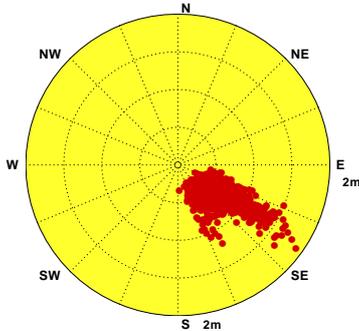
Wave of CNA0 at 2019/01



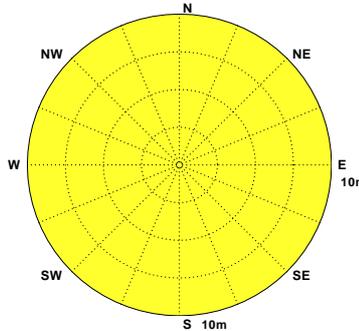
Wave of TCY0 at 2019/01



Wave of PHX0 at 2019/01 NO=744(100%)
 Hs : MEAN=.7m MAX=1.9m(SE,9s)
 N-E:0% E-S:99% S-W:0% W-N:0%



Wave of KMX0 at 2019/01



Wave of MSX0 at 2019/01 NO=736(99%)
 Hs : MEAN=.6m MAX=1.4m(NE,7s)
 N-E:99% E-S:0% S-W:0% W-N:0%

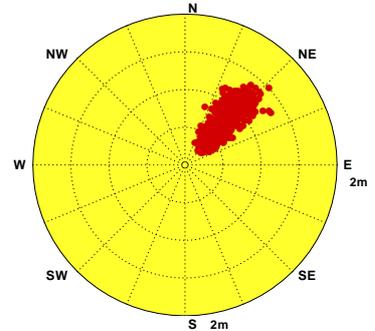


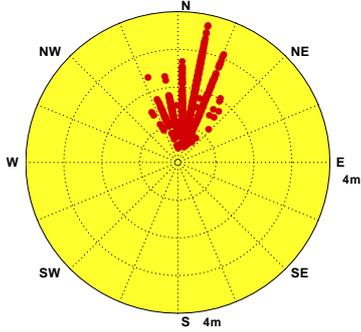
圖7.2a 2019年 1月12海域主要測站2修補前波高向量分佈圖

V191TPY0.1H0 V191KLY0.1H0 V191SAY0.1H0 V191HLY0.1H0 V191LTX0.1H0 V191PNZ0.1H0
 V191KHZ0.1H0 V191CNA0.1H0 V191TCY0.1H0 V191PHX0.1H0 V191KMX0.1H0 V191MSX0.1H0

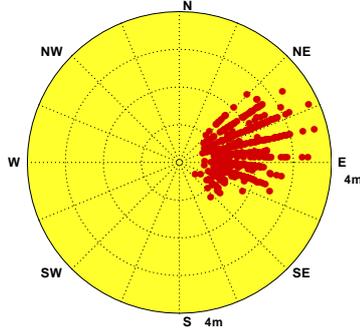
Institute of Harbor & Marine Technology

Distribution of H_s Vectors

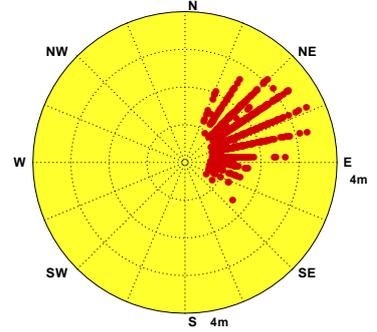
Wave of TPY0 at 2019/01 NO=744(100%)
Hs : MEAN=1.5m MAX=3.6m(N, 7s)
N-E:83% E-S:0% S-W:0% W-N:17%



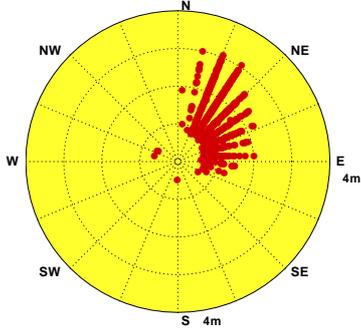
Wave of KLY0 at 2019/01 NO=744(100%)
Hs : MEAN=1.5m MAX=3.6m(ENE,8s)
N-E:50% E-S:50% S-W:0% W-N:0%



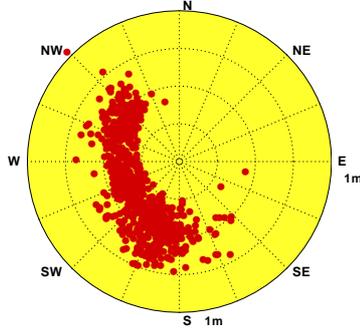
Wave of SAY0 at 2019/01 NO=744(100%)
Hs : MEAN=1.5m MAX=3.3m(ENE,7s)
N-E:77% E-S:23% S-W:0% W-N:0%



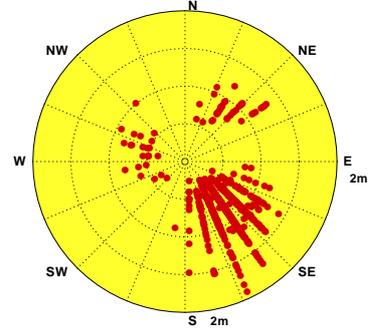
Wave of HLY0 at 2019/01 NO=744(100%)
Hs : MEAN=1.4m MAX=2.9m(NNE,7s)
N-E:87% E-S:13% S-W:0% W-N:0%



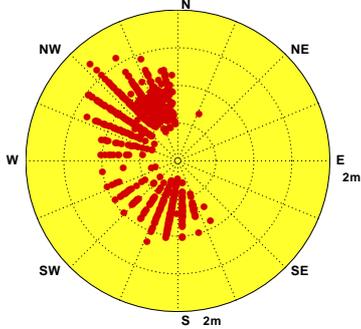
Wave of LTX0 at 2019/01 NO=744(100%)
Hs : MEAN=.5m MAX=1.0m(NW,6s)
N-E:0% E-S:4% S-W:64% W-N:32%



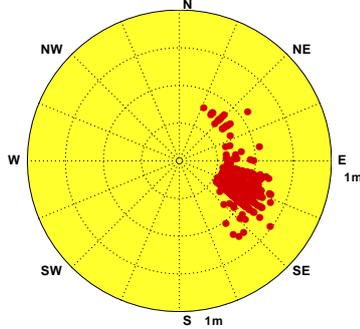
Wave of PNZ0 at 2019/01 NO=744(100%)
Hs : MEAN=.9m MAX=2.0m(SSE,7s)
N-E:5% E-S:90% S-W:3% W-N:2%



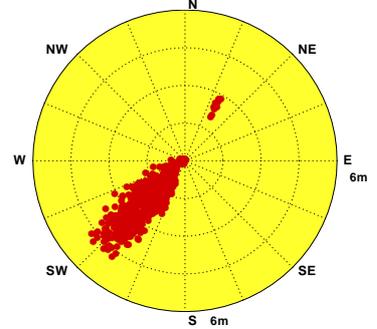
Wave of KHZ0 at 2019/01 NO=744(100%)
Hs : MEAN=.8m MAX=1.7m(NW,5s)
N-E:0% E-S:3% S-W:28% W-N:69%



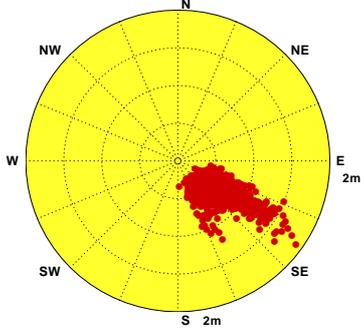
Wave of CNA0 at 2019/01 NO=744(100%)
Hs : MEAN=.4m MAX=.7m(SE,8s)
N-E:4% E-S:96% S-W:0% W-N:0%



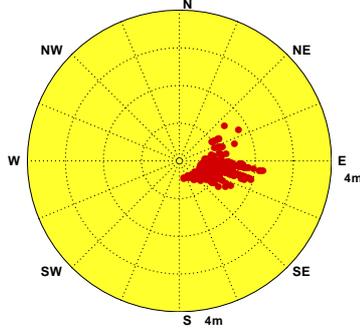
Wave of TCY0 at 2019/01 NO=744(100%)
Hs : MEAN=2.5m MAX=5.1m(SW,7s)
N-E:2% E-S:0% S-W:98% W-N:0%



Wave of PHX0 at 2019/01 NO=744(100%)
Hs : MEAN=.7m MAX=1.9m(SE,9s)
N-E:0% E-S:99% S-W:0% W-N:0%



Wave of KMX0 at 2019/01 NO=744(100%)
Hs : MEAN=1.0m MAX=2.1m(E, 8s)
N-E:3% E-S:97% S-W:0% W-N:0%



Wave of MSX0 at 2019/01 NO=744(100%)
Hs : MEAN=.6m MAX=1.4m(NE,7s)
N-E:99% E-S:0% S-W:0% W-N:0%

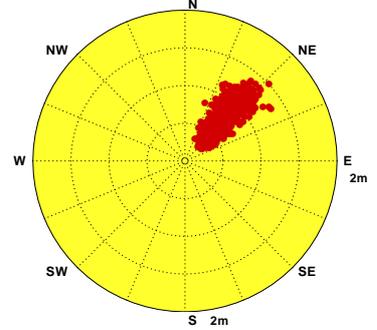


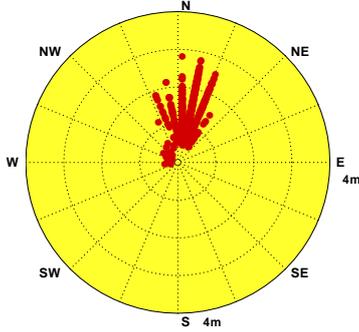
圖7.2b 2019年1月12海域主要測站2修補後波高向量分佈圖

V191TPY0.1HA V191KLY0.1HA V191SAY0.1HA V191HLY0.1HA V191LTX0.1HA V191PNZ0.1HA
V191KHZ0.1HA V191CNA0.1HA V191TCY0.1HA V191PHX0.1HA V191KMX0.1HA V191MSX0.1HA

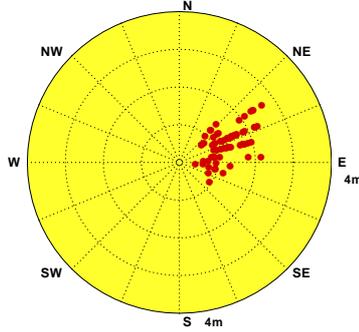
Institute of Harbor & Marine Technology

Distribution of H_s Vectors

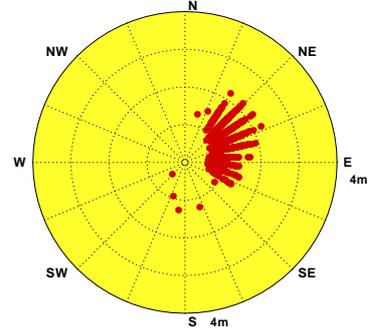
Wave of TPY0 at 2019/02 NO=652(97%)
 Hs : MEAN=1.2m MAX=2.7m(N, 8s)
 N-E:88% E-S:0% S-W:1% W-N:11%



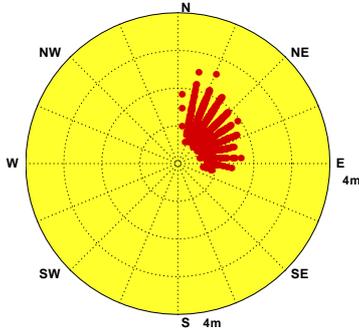
Wave of KLY0 at 2019/02 NO=73(11%)
 Hs : MEAN=1.2m MAX=2.5m(NE,8s)
 N-E:74% E-S:26% S-W:0% W-N:0%



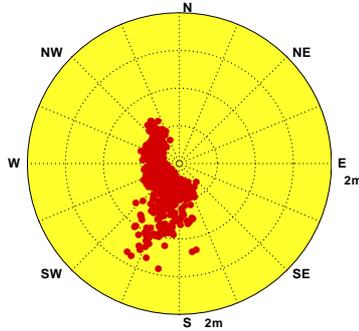
Wave of SAY0 at 2019/02 NO=642(96%)
 Hs : MEAN=1.2m MAX=2.1m(ENE,6s)
 N-E:78% E-S:22% S-W:0% W-N:0%



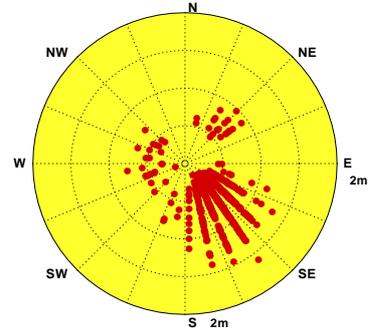
Wave of HLY0 at 2019/02 NO=660(98%)
 Hs : MEAN=1.1m MAX=2.4m(NNE,6s)
 N-E:92% E-S:8% S-W:0% W-N:0%



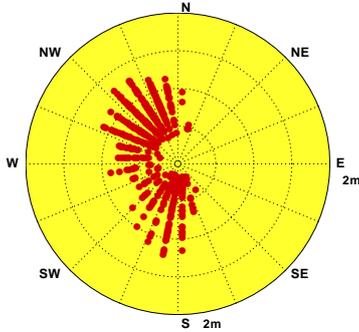
Wave of LTX0 at 2019/02 NO=671(100%)
 Hs : MEAN=.5m MAX=1.5m(SSW,6s)
 N-E:0% E-S:5% S-W:76% W-N:19%



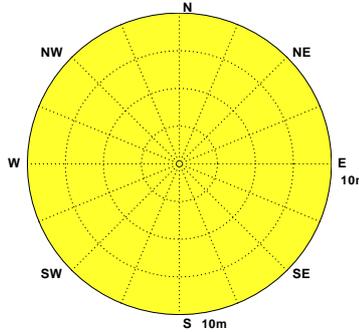
Wave of PNZ0 at 2019/02 NO=654(97%)
 Hs : MEAN=.7m MAX=1.6m(SE,6s)
 N-E:3% E-S:90% S-W:5% W-N:2%



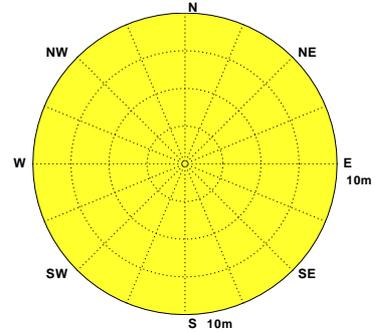
Wave of KHZ0 at 2019/02 NO=517(77%)
 Hs : MEAN=.7m MAX=1.3m(S, 5s)
 N-E:1% E-S:2% S-W:30% W-N:67%



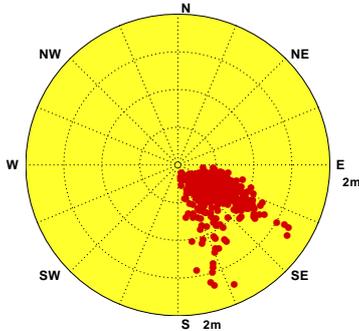
Wave of CNA0 at 2019/02



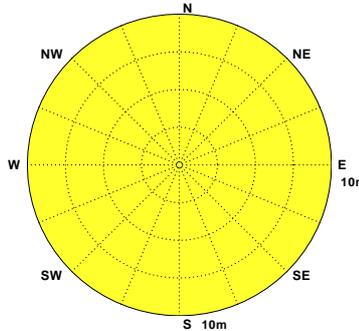
Wave of TCY0 at 2019/02



Wave of PHX0 at 2019/02 NO=672(100%)
 Hs : MEAN=.6m MAX=1.8m(SSE,6s)
 N-E:0% E-S:99% S-W:1% W-N:0%



Wave of KMX0 at 2019/02



Wave of MSX0 at 2019/02 NO=407(61%)
 Hs : MEAN=.6m MAX=1.8m(NE,8s)
 N-E:99% E-S:0% S-W:0% W-N:0%

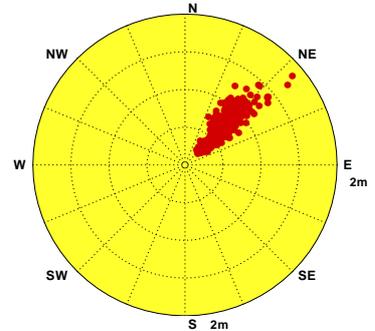


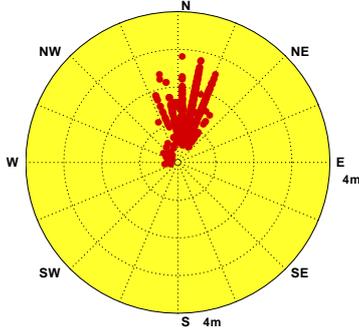
圖7.3a 2019年2月12海域主要測站2修補前波高向量分佈圖

V192TPY0.1H0 V192KLY0.1H0 V192SAY0.1H0 V192HLY0.1H0 V192LTX0.1H0 V192PNZ0.1H0
 V192KHZ0.1H0 V192CNA0.1H0 V192TCY0.1H0 V192PHX0.1H0 V192KMX0.1H0 V192MSX0.1H0

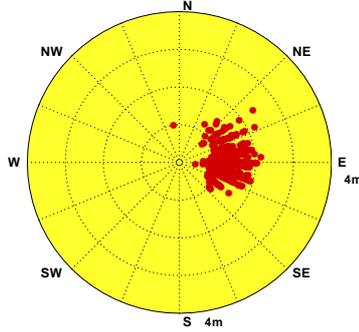
Institute of Harbor & Marine Technology

Distribution of H_s Vectors

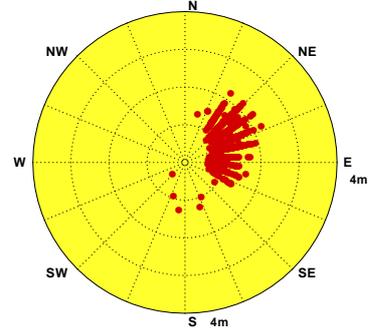
Wave of TPY0 at 2019/02 NO=672(100%)
Hs : MEAN=1.2m MAX=2.7m(N, 8s)
N-E:86% E-S:0% S-W:1% W-N:13%



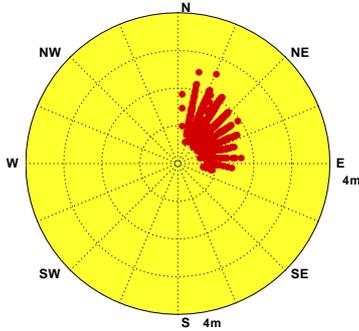
Wave of KLY0 at 2019/02 NO=672(100%)
Hs : MEAN=1.2m MAX=2.2m(NE,6s)
N-E:29% E-S:71% S-W:0% W-N:0%



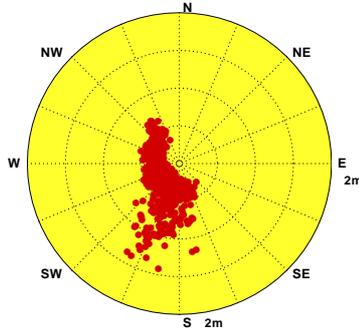
Wave of SAY0 at 2019/02 NO=672(100%)
Hs : MEAN=1.2m MAX=2.1m(ENE,6s)
N-E:78% E-S:22% S-W:0% W-N:0%



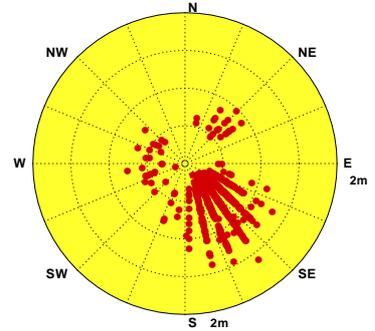
Wave of HLY0 at 2019/02 NO=672(100%)
Hs : MEAN=1.1m MAX=2.4m(NNE,6s)
N-E:92% E-S:8% S-W:0% W-N:0%



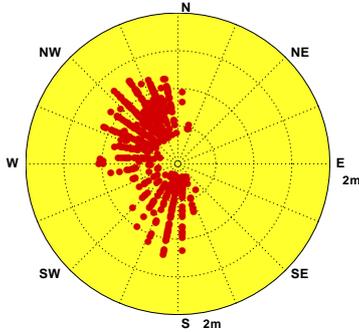
Wave of LTX0 at 2019/02 NO=672(100%)
Hs : MEAN=.5m MAX=1.5m(SSW,6s)
N-E:0% E-S:5% S-W:76% W-N:19%



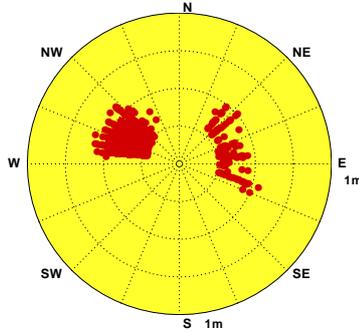
Wave of PNZ0 at 2019/02 NO=672(100%)
Hs : MEAN=.7m MAX=1.6m(SE,6s)
N-E:3% E-S:90% S-W:5% W-N:2%



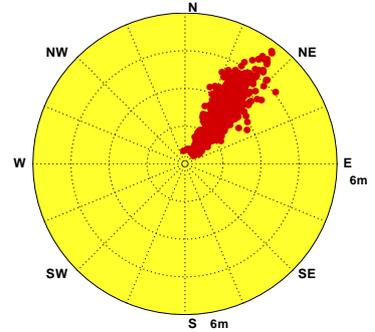
Wave of KHZ0 at 2019/02 NO=672(100%)
Hs : MEAN=.7m MAX=1.3m(S, 5s)
N-E:1% E-S:2% S-W:25% W-N:72%



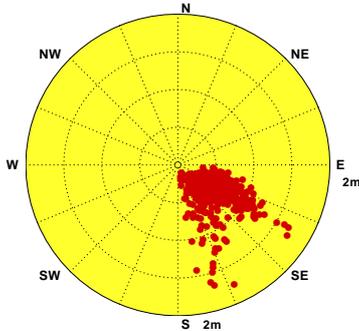
Wave of CNA0 at 2019/02 NO=672(100%)
Hs : MEAN=.4m MAX=.6m(WNW,7s)
N-E:13% E-S:6% S-W:0% W-N:81%



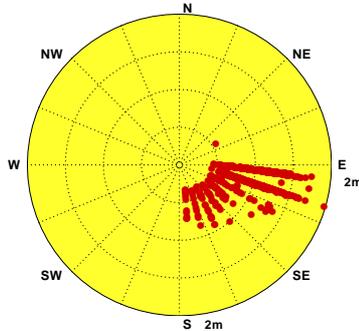
Wave of TCY0 at 2019/02 NO=672(100%)
Hs : MEAN=2.3m MAX=5.3m(NE,7s)
N-E:99% E-S:0% S-W:0% W-N:1%



Wave of PHX0 at 2019/02 NO=672(100%)
Hs : MEAN=.6m MAX=1.8m(SSE,6s)
N-E:0% E-S:99% S-W:1% W-N:0%



Wave of KMX0 at 2019/02 NO=672(100%)
Hs : MEAN=.9m MAX=2.0m(ESE,8s)
N-E:0% E-S:99% S-W:0% W-N:0%



Wave of MSX0 at 2019/02 NO=672(100%)
Hs : MEAN=.7m MAX=1.8m(NE,8s)
N-E:99% E-S:0% S-W:0% W-N:0%

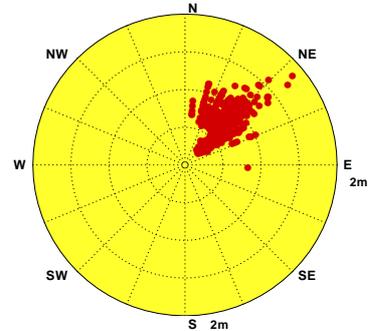


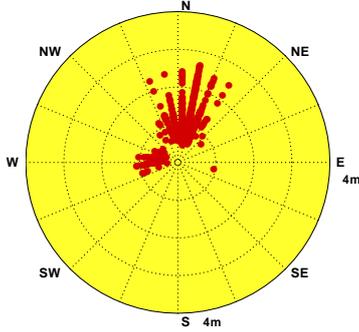
圖7.3b 2019年 2月12海域主要測站2修補後波高向量分佈圖

V192TPY0.1HA V192KLY0.1HA V192SAY0.1HA V192HLY0.1HA V192LTX0.1HA V192PNZ0.1HA
V192KHZ0.1HA V192CNA0.1HA V192TCY0.1HA V192PHX0.1HA V192KMX0.1HA V192MSX0.1HA

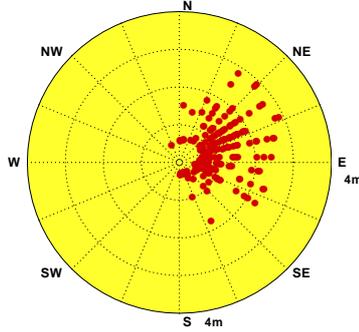
Institute of Harbor & Marine Technology

Distribution of H_s Vectors

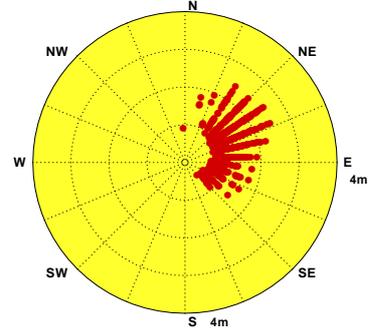
Wave of TPY0 at 2019/03 NO=547(74%)
 Hs : MEAN=1.1m MAX=2.5m(N, 6s)
 N-E:72% E-S:0% S-W:8% W-N:20%



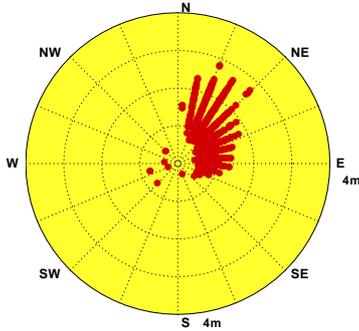
Wave of KLY0 at 2019/03 NO=201(27%)
 Hs : MEAN=1.1m MAX=2.7m(ENE,7s)
 N-E:54% E-S:43% S-W:2% W-N:1%



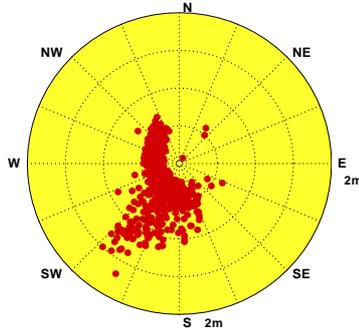
Wave of SAY0 at 2019/03 NO=726(98%)
 Hs : MEAN=1.2m MAX=2.3m(NE,8s)
 N-E:69% E-S:31% S-W:0% W-N:0%



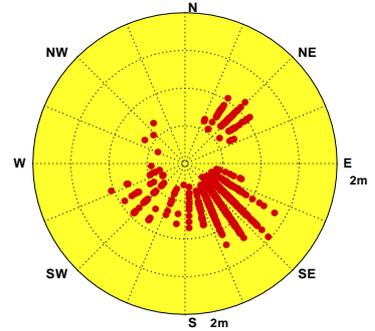
Wave of HLY0 at 2019/03 NO=743(100%)
 Hs : MEAN=1.1m MAX=2.7m(NNE,6s)
 N-E:79% E-S:20% S-W:1% W-N:0%



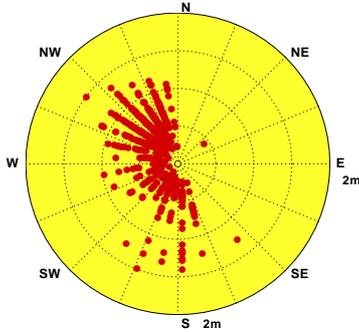
Wave of LTX0 at 2019/03 NO=738(99%)
 Hs : MEAN=.5m MAX=1.8m(SSW,5s)
 N-E:0% E-S:7% S-W:69% W-N:24%



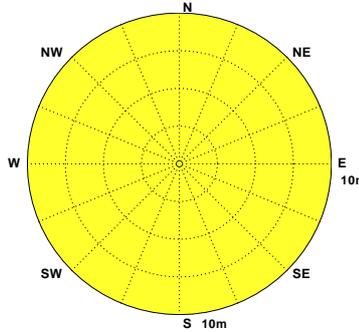
Wave of PNZ0 at 2019/03 NO=731(98%)
 Hs : MEAN=.7m MAX=1.5m(SE,7s)
 N-E:9% E-S:81% S-W:9% W-N:1%



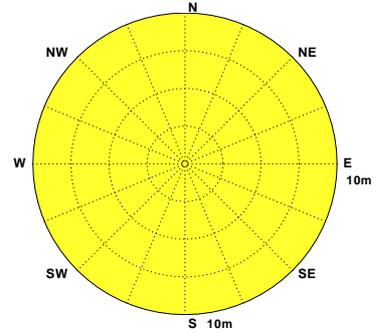
Wave of KHZ0 at 2019/03 NO=582(78%)
 Hs : MEAN=.6m MAX=1.6m(SSW,5s)
 N-E:0% E-S:2% S-W:25% W-N:73%



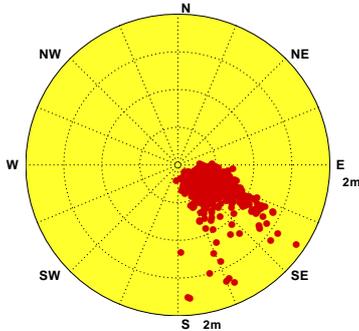
Wave of CNA0 at 2019/03



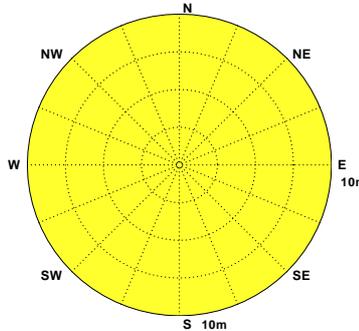
Wave of TCY0 at 2019/03



Wave of PHX0 at 2019/03 NO=744(100%)
 Hs : MEAN=.5m MAX=1.9m(SE,9s)
 N-E:0% E-S:99% S-W:1% W-N:0%



Wave of KMX0 at 2019/03



Wave of MSX0 at 2019/03 NO=727(98%)
 Hs : MEAN=.5m MAX=1.5m(NE,8s)
 N-E:99% E-S:0% S-W:0% W-N:0%

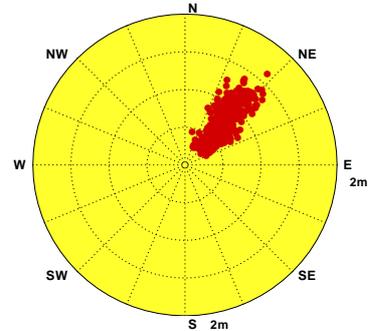


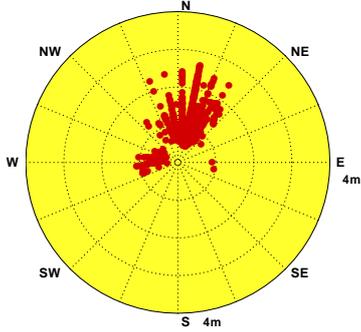
圖7.4a 2019年3月12海域主要測站2修補前波高向量分佈圖

V193TPY0.1H0 V193KLY0.1H0 V193SAY0.1H0 V193HLY0.1H0 V193LTX0.1H0 V193PNZ0.1H0
 V193KHZ0.1H0 V193CNA0.1H0 V193TCY0.1H0 V193PHX0.1H0 V193KMX0.1H0 V193MSX0.1H0

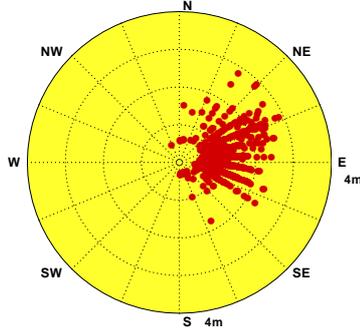
Institute of Harbor & Marine Technology

Distribution of H_s Vectors

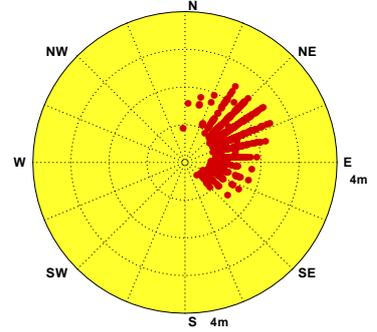
Wave of TPY0 at 2019/03 NO=744(100%)
 Hs : MEAN=1.0m MAX=2.5m(N, 6s)
 N-E:77% E-S:0% S-W:6% W-N:17%



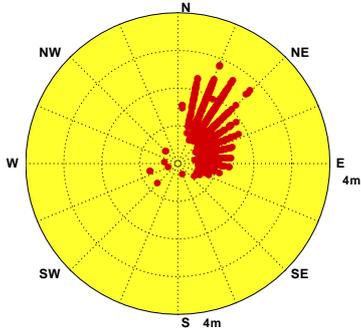
Wave of KLY0 at 2019/03 NO=744(100%)
 Hs : MEAN=1.2m MAX=2.7m(ENE,7s)
 N-E:41% E-S:58% S-W:1% W-N:0%



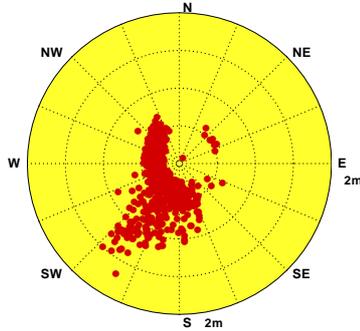
Wave of SAY0 at 2019/03 NO=744(100%)
 Hs : MEAN=1.2m MAX=2.3m(NE,8s)
 N-E:69% E-S:31% S-W:0% W-N:0%



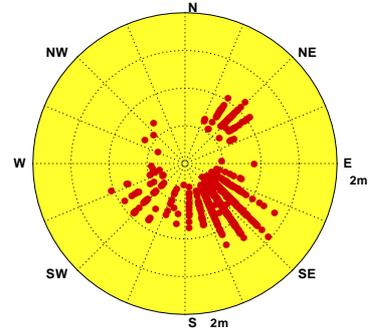
Wave of HLY0 at 2019/03 NO=744(100%)
 Hs : MEAN=1.1m MAX=2.7m(NNE,6s)
 N-E:79% E-S:20% S-W:1% W-N:0%



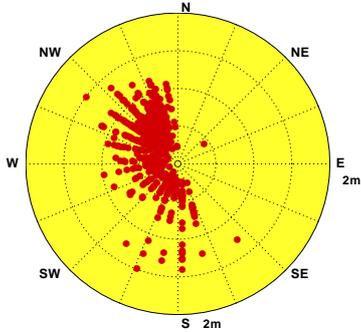
Wave of LTX0 at 2019/03 NO=744(100%)
 Hs : MEAN=.5m MAX=1.8m(SSW,5s)
 N-E:1% E-S:7% S-W:68% W-N:24%



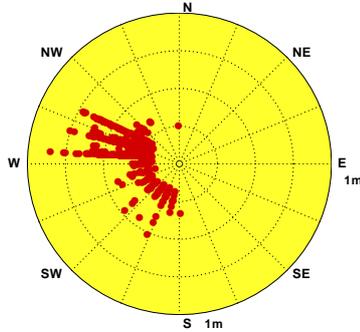
Wave of PNZ0 at 2019/03 NO=744(100%)
 Hs : MEAN=.7m MAX=1.5m(SE,7s)
 N-E:9% E-S:81% S-W:9% W-N:1%



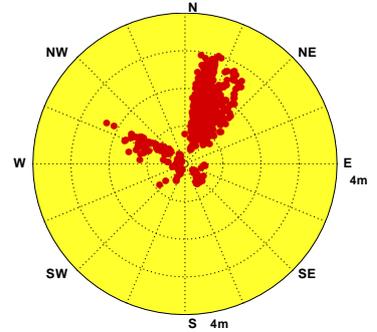
Wave of KHZ0 at 2019/03 NO=744(100%)
 Hs : MEAN=.6m MAX=1.6m(SSW,5s)
 N-E:0% E-S:2% S-W:23% W-N:75%



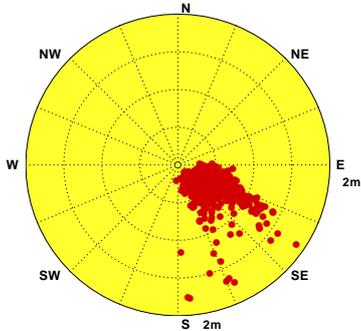
Wave of CNA0 at 2019/03 NO=744(100%)
 Hs : MEAN=.4m MAX=.9m(W, 7s)
 N-E:0% E-S:0% S-W:17% W-N:83%



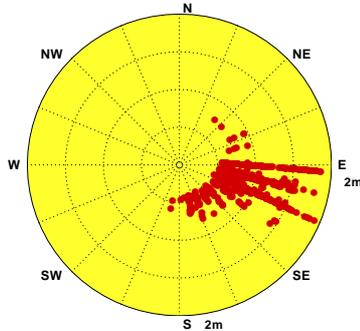
Wave of TCY0 at 2019/03 NO=744(100%)
 Hs : MEAN=1.3m MAX=2.8m(NNE,6s)
 N-E:82% E-S:4% S-W:4% W-N:10%



Wave of PHX0 at 2019/03 NO=744(100%)
 Hs : MEAN=.5m MAX=1.9m(SE,9s)
 N-E:0% E-S:99% S-W:1% W-N:0%



Wave of KMX0 at 2019/03 NO=744(100%)
 Hs : MEAN=.9m MAX=1.9m(ESE,8s)
 N-E:1% E-S:99% S-W:0% W-N:0%



Wave of MSX0 at 2019/03 NO=744(100%)
 Hs : MEAN=.5m MAX=1.5m(NE,8s)
 N-E:99% E-S:0% S-W:0% W-N:0%

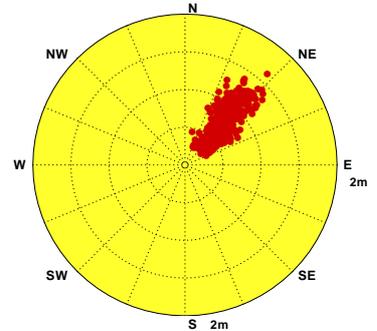


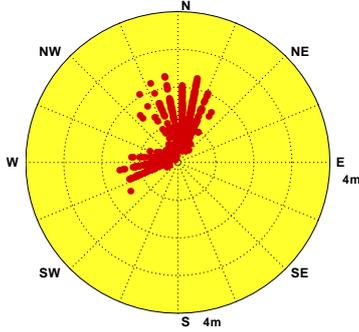
圖7.4b 2019年 3月12海域主要測站2修補後波高向量分佈圖

V193TPY0.1HA V193KLY0.1HA V193SAY0.1HA V193HLY0.1HA V193LTX0.1HA V193PNZ0.1HA
 V193KHZ0.1HA V193CNA0.1HA V193TCY0.1HA V193PHX0.1HA V193KMX0.1HA V193MSX0.1HA

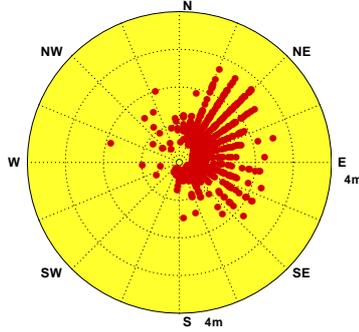
Institute of Harbor & Marine Technology

Distribution of H_s Vectors

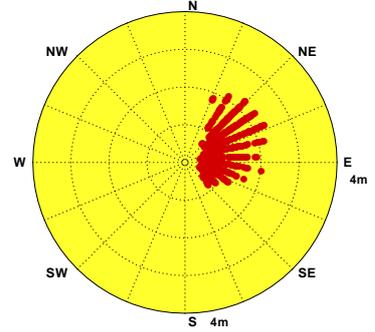
Wave of TPY0 at 2019/04 NO=693(96%)
 Hs : MEAN=.9m MAX=2.2m(NNW,6s)
 N-E:53% E-S:0% S-W:19% W-N:28%



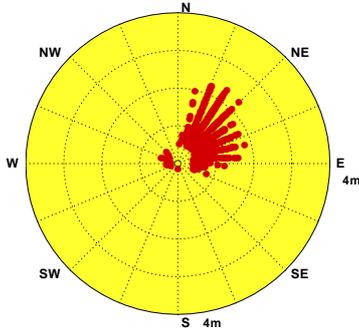
Wave of KLY0 at 2019/04 NO=697(97%)
 Hs : MEAN=.9m MAX=2.5m(NE,7s)
 N-E:54% E-S:40% S-W:4% W-N:2%



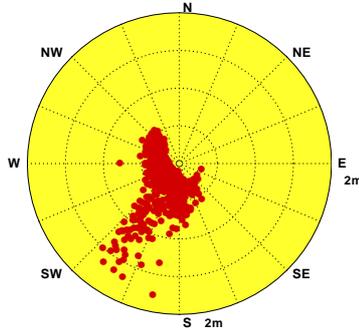
Wave of SAY0 at 2019/04 NO=698(97%)
 Hs : MEAN=1.0m MAX=2.1m(ENE,6s)
 N-E:50% E-S:50% S-W:0% W-N:0%



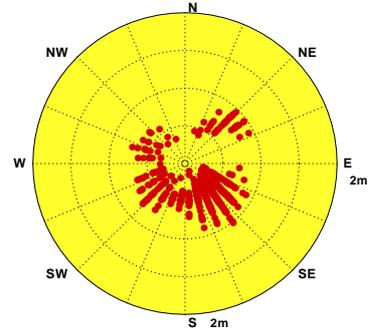
Wave of HLY0 at 2019/04 NO=720(100%)
 Hs : MEAN=.9m MAX=2.2m(NNE,5s)
 N-E:80% E-S:18% S-W:1% W-N:1%



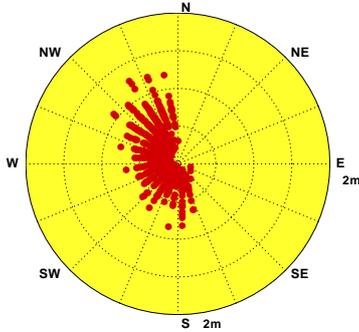
Wave of LTX0 at 2019/04 NO=719(100%)
 Hs : MEAN=.5m MAX=1.9m(SSW,5s)
 N-E:0% E-S:6% S-W:73% W-N:21%



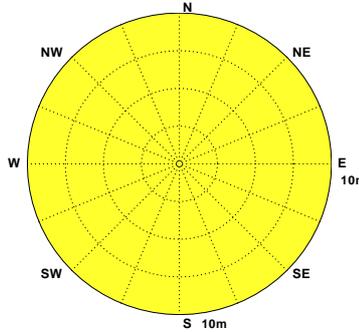
Wave of PNZ0 at 2019/04 NO=709(98%)
 Hs : MEAN=.5m MAX=1.0m(SE,6s)
 N-E:6% E-S:76% S-W:15% W-N:3%



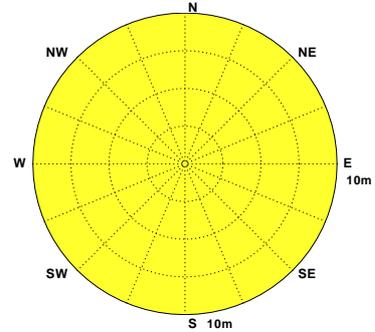
Wave of KHZ0 at 2019/04 NO=572(79%)
 Hs : MEAN=.5m MAX=1.2m(NW,5s)
 N-E:0% E-S:3% S-W:40% W-N:57%



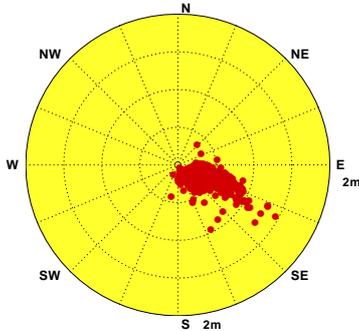
Wave of CNA0 at 2019/04



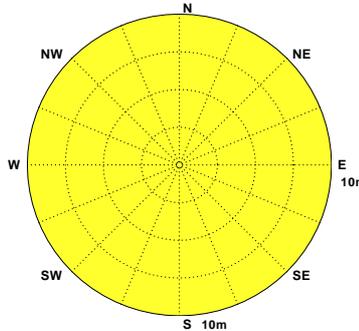
Wave of TCY0 at 2019/04



Wave of PHX0 at 2019/04 NO=443(62%)
 Hs : MEAN=.4m MAX=1.4m(ESE,9s)
 N-E:1% E-S:96% S-W:3% W-N:0%



Wave of KMX0 at 2019/04



Wave of MSX0 at 2019/04 NO=639(89%)
 Hs : MEAN=.4m MAX=1.4m(NE,6s)
 N-E:99% E-S:0% S-W:0% W-N:0%

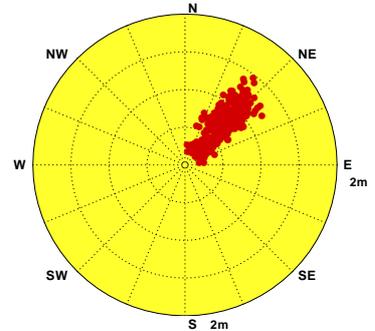


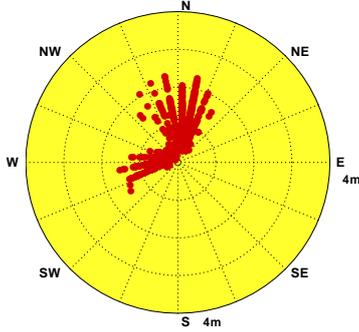
圖7.5a 2019年4月12海域主要測站2修補前波高向量分佈圖

V194TPY0.1H0 V194KLY0.1H0 V194SAY0.1H0 V194HLY0.1H0 V194LTX0.1H0 V194PNZ0.1H0
 V194KHZ0.1H0 V194CNA0.1H0 V194TCY0.1H0 V194PHX0.1H0 V194KMX0.1H0 V194MSX0.1H0

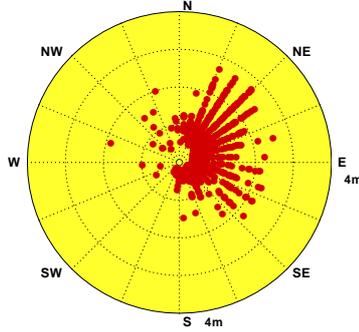
Institute of Harbor & Marine Technology

Distribution of H_s Vectors

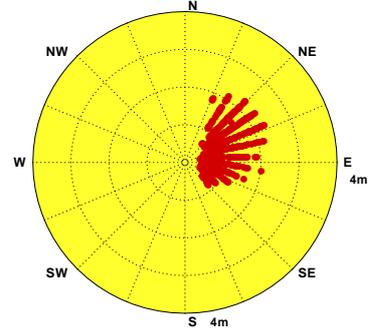
Wave of TPY0 at 2019/04 NO=720(100%)
 Hs : MEAN=.9m MAX=2.2m(NNW,6s)
 N-E:51% E-S:0% S-W:20% W-N:29%



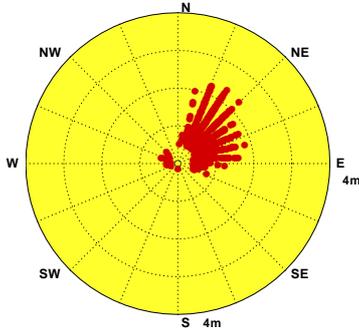
Wave of KLY0 at 2019/04 NO=720(100%)
 Hs : MEAN=.9m MAX=2.5m(NE,7s)
 N-E:53% E-S:40% S-W:4% W-N:3%



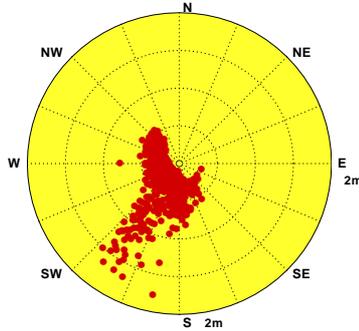
Wave of SAY0 at 2019/04 NO=720(100%)
 Hs : MEAN=1.0m MAX=2.1m(ENE,6s)
 N-E:50% E-S:50% S-W:0% W-N:0%



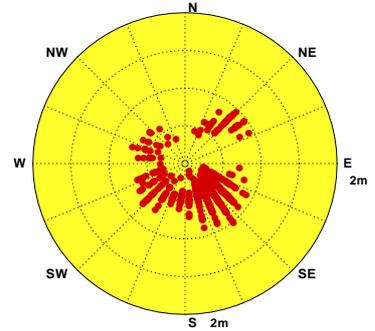
Wave of HLY0 at 2019/04 NO=720(100%)
 Hs : MEAN=.9m MAX=2.2m(NNE,5s)
 N-E:80% E-S:18% S-W:1% W-N:1%



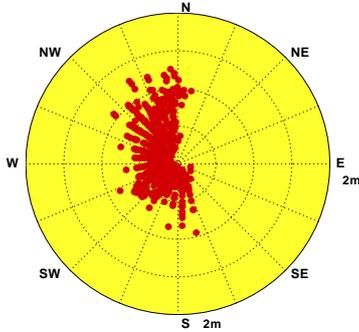
Wave of LTX0 at 2019/04 NO=720(100%)
 Hs : MEAN=.5m MAX=1.9m(SSW,5s)
 N-E:0% E-S:6% S-W:73% W-N:21%



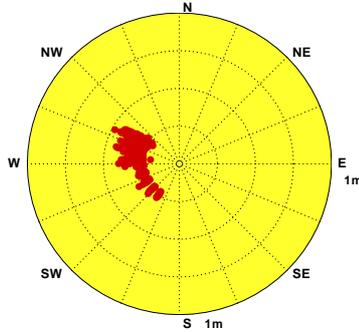
Wave of PNZ0 at 2019/04 NO=720(100%)
 Hs : MEAN=.5m MAX=1.0m(SE,6s)
 N-E:6% E-S:76% S-W:15% W-N:3%



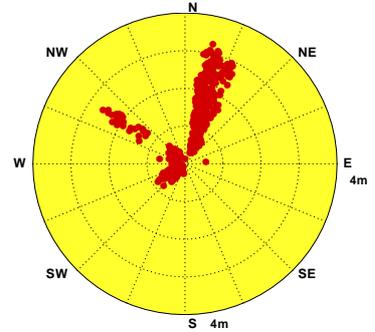
Wave of KHZ0 at 2019/04 NO=720(100%)
 Hs : MEAN=.5m MAX=1.2m(NW,5s)
 N-E:0% E-S:3% S-W:40% W-N:57%



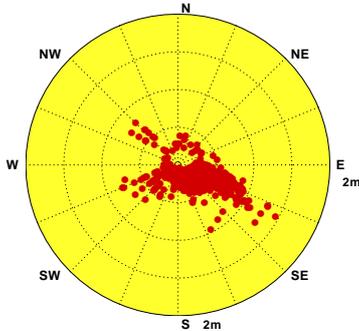
Wave of CNA0 at 2019/04 NO=720(100%)
 Hs : MEAN=.3m MAX=.5m(WNW,9s)
 N-E:0% E-S:0% S-W:48% W-N:52%



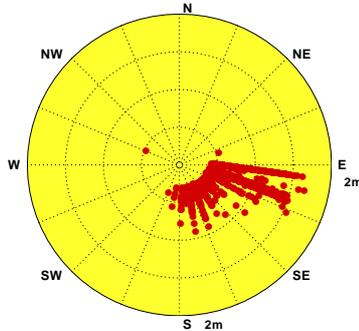
Wave of TCY0 at 2019/04 NO=720(100%)
 Hs : MEAN=1.0m MAX=3.1m(NNE,5s)
 N-E:63% E-S:0% S-W:21% W-N:16%



Wave of PHX0 at 2019/04 NO=720(100%)
 Hs : MEAN=.4m MAX=1.4m(ESE,9s)
 N-E:2% E-S:73% S-W:22% W-N:3%



Wave of KMX0 at 2019/04 NO=720(100%)
 Hs : MEAN=.7m MAX=1.6m(ESE,7s)
 N-E:0% E-S:97% S-W:3% W-N:0%



Wave of MSX0 at 2019/04 NO=720(100%)
 Hs : MEAN=.4m MAX=1.4m(NE,6s)
 N-E:99% E-S:0% S-W:0% W-N:0%

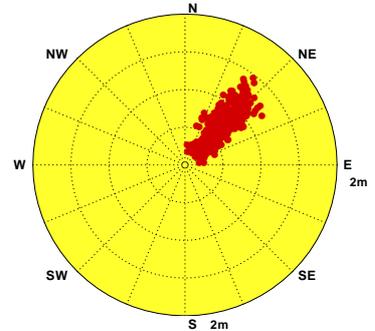


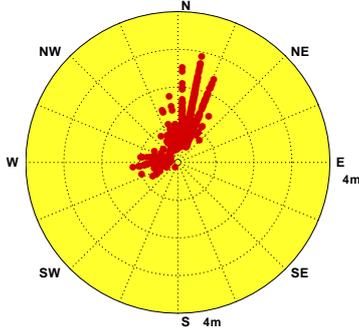
圖7.5b 2019年4月12海域主要測站2修補後波高向量分佈圖

V194TPY0.1HA V194KLY0.1HA V194SAY0.1HA V194HLY0.1HA V194LTX0.1HA V194PNZ0.1HA
 V194KHZ0.1HA V194CNA0.1HA V194TCY0.1HA V194PHX0.1HA V194KMX0.1HA V194MSX0.1HA

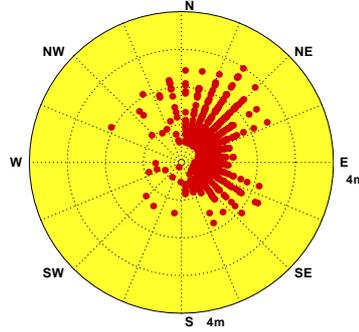
Institute of Harbor & Marine Technology

Distribution of H_s Vectors

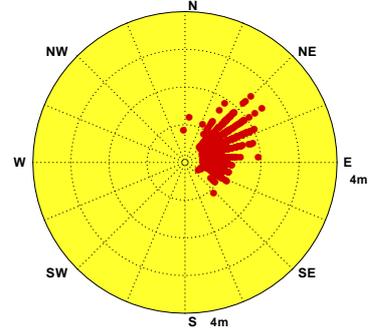
Wave of TPY0 at 2019/05 NO=698(94%)
Hs : MEAN=.8m MAX=2.7m(N, 6s)
N-E:64% E-S:0% S-W:11% W-N:25%



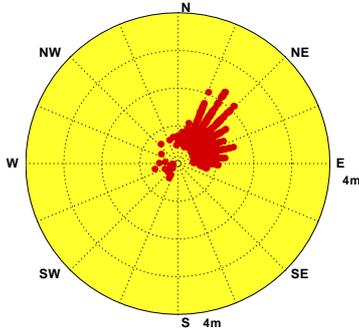
Wave of KLY0 at 2019/05 NO=729(98%)
Hs : MEAN=1.0m MAX=2.8m(NNE,7s)
N-E:59% E-S:36% S-W:2% W-N:3%



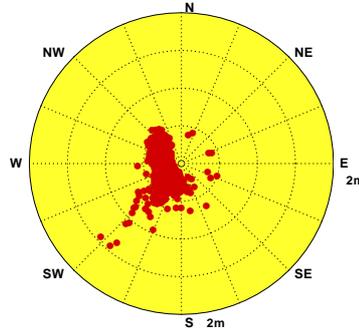
Wave of SAY0 at 2019/05 NO=717(96%)
Hs : MEAN=.9m MAX=2.3m(NE,7s)
N-E:66% E-S:34% S-W:0% W-N:0%



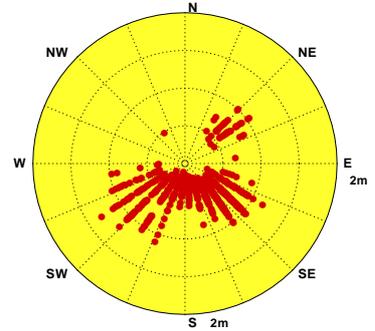
Wave of HLY0 at 2019/05 NO=735(99%)
Hs : MEAN=.8m MAX=2.1m(NNE,5s)
N-E:83% E-S:14% S-W:2% W-N:1%



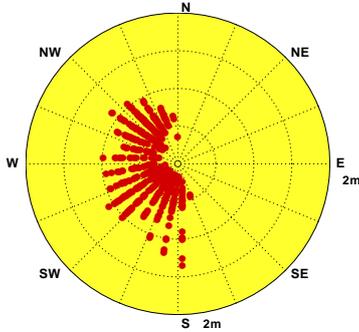
Wave of LTX0 at 2019/05 NO=743(100%)
Hs : MEAN=.4m MAX=1.5m(SW,5s)
N-E:1% E-S:2% S-W:66% W-N:31%



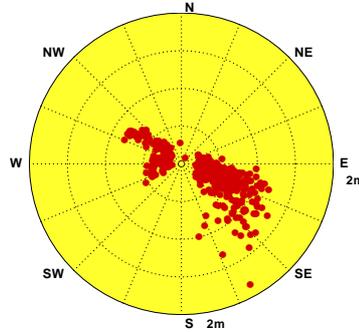
Wave of PNZ0 at 2019/05 NO=725(97%)
Hs : MEAN=.6m MAX=1.4m(SW,4s)
N-E:6% E-S:59% S-W:35% W-N:0%



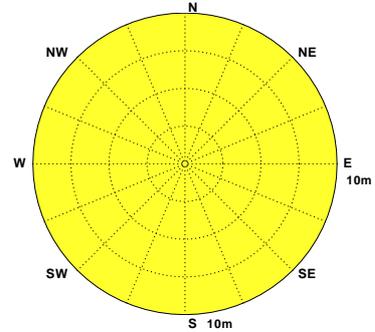
Wave of KHZ0 at 2019/05 NO=574(77%)
Hs : MEAN=.6m MAX=1.4m(S, 4s)
N-E:0% E-S:0% S-W:60% W-N:40%



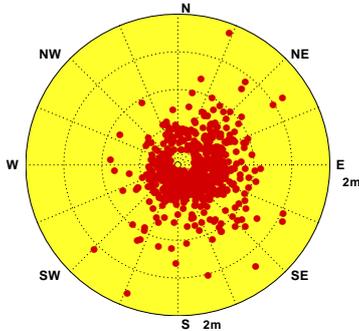
Wave of CNA0 at 2019/05 NO=594(80%)
Hs : MEAN=.5m MAX=1.9m(SSE,3s)
N-E:1% E-S:76% S-W:9% W-N:14%



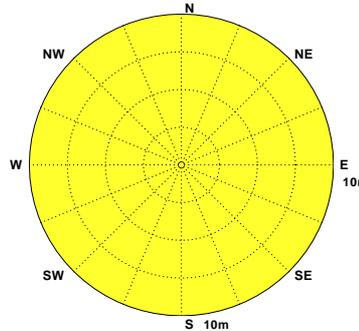
Wave of TCY0 at 2019/05



Wave of PHX0 at 2019/05 NO=713(96%)
Hs : MEAN=.5m MAX=1.9m(SSW,5s)
N-E:18% E-S:47% S-W:28% W-N:7%



Wave of KMX0 at 2019/05



Wave of MSX0 at 2019/05 NO=740(99%)
Hs : MEAN=.5m MAX=1.5m(NE,8s)
N-E:99% E-S:0% S-W:0% W-N:0%

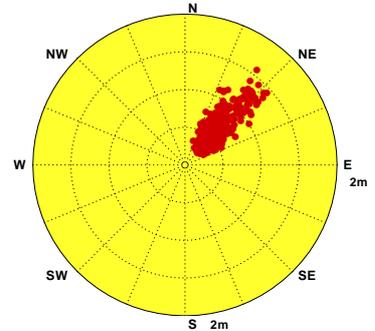


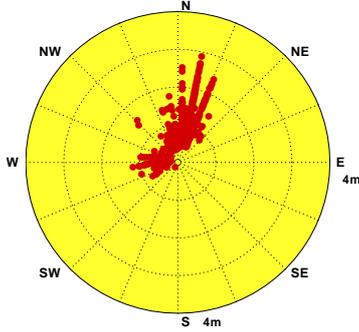
圖7.6a 2019年5月12海域主要測站2修補前波高向量分佈圖

V195TPY0.1H0 V195KLY0.1H0 V195SAY0.1H0 V195HLY0.1H0 V195LTX0.1H0 V195PNZ0.1H0
V195KHZ0.1H0 V195CNA0.1H0 V195TCY0.1H0 V195PHX0.1H0 V195KMX0.1H0 V195MSX0.1H0

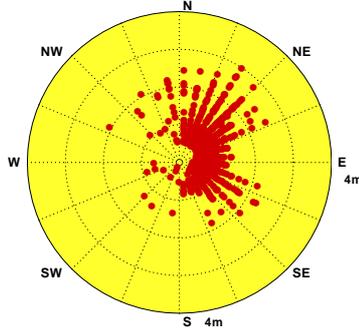
Institute of Harbor & Marine Technology

Distribution of H_s Vectors

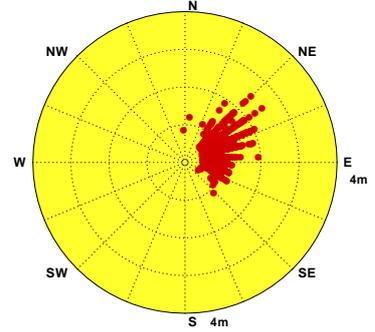
Wave of TPY0 at 2019/05 NO=744(100%)
Hs : MEAN=.8m MAX=2.7m(N, 6s)
N-E:61% E-S:0% S-W:11% W-N:28%



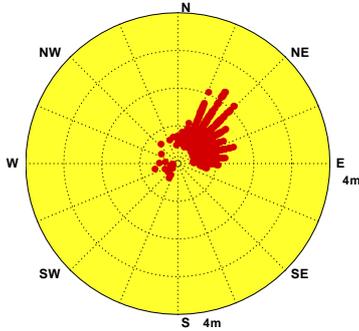
Wave of KLY0 at 2019/05 NO=744(100%)
Hs : MEAN=1.0m MAX=2.8m(NNE,7s)
N-E:60% E-S:35% S-W:2% W-N:3%



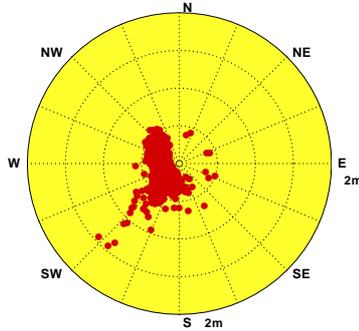
Wave of SAY0 at 2019/05 NO=744(100%)
Hs : MEAN=.9m MAX=2.3m(NE,7s)
N-E:66% E-S:34% S-W:0% W-N:0%



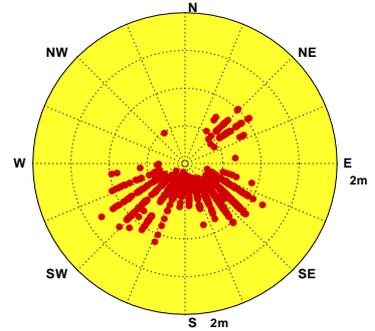
Wave of HLY0 at 2019/05 NO=744(100%)
Hs : MEAN=.8m MAX=2.1m(NNE,5s)
N-E:84% E-S:13% S-W:2% W-N:1%



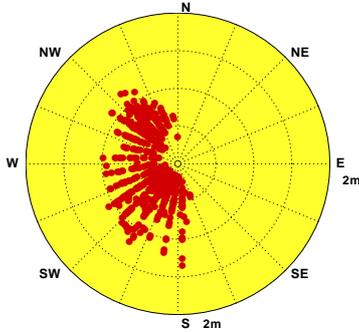
Wave of LTX0 at 2019/05 NO=744(100%)
Hs : MEAN=.4m MAX=1.5m(SW,5s)
N-E:1% E-S:2% S-W:66% W-N:31%



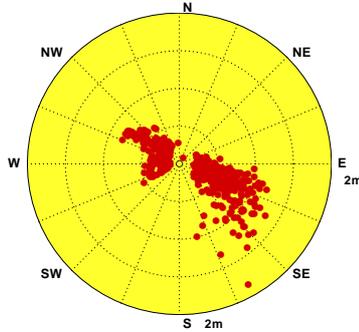
Wave of PNZ0 at 2019/05 NO=744(100%)
Hs : MEAN=.6m MAX=1.4m(SW,4s)
N-E:6% E-S:58% S-W:36% W-N:0%



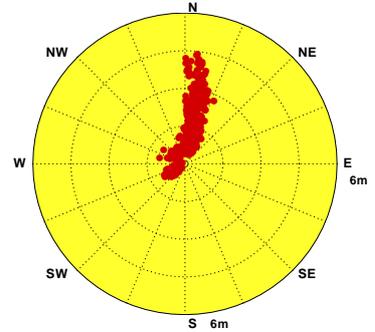
Wave of KHZ0 at 2019/05 NO=744(100%)
Hs : MEAN=.6m MAX=1.4m(S, 4s)
N-E:0% E-S:1% S-W:60% W-N:39%



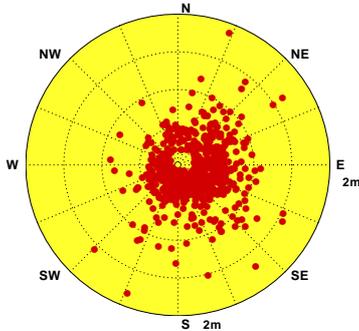
Wave of CNA0 at 2019/05 NO=744(100%)
Hs : MEAN=.5m MAX=1.9m(SSE,3s)
N-E:1% E-S:60% S-W:12% W-N:27%



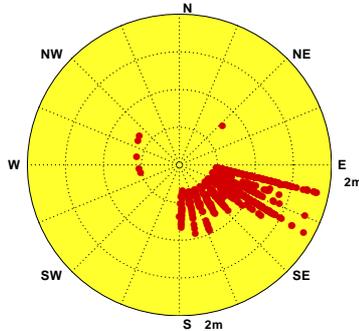
Wave of TCY0 at 2019/05 NO=744(100%)
Hs : MEAN=1.2m MAX=4.2m(N, 5s)
N-E:62% E-S:0% S-W:6% W-N:32%



Wave of PHX0 at 2019/05 NO=744(100%)
Hs : MEAN=.5m MAX=1.9m(SSW,5s)
N-E:18% E-S:48% S-W:27% W-N:7%



Wave of KMX0 at 2019/05 NO=744(100%)
Hs : MEAN=.8m MAX=1.9m(ESE,8s)
N-E:0% E-S:95% S-W:5% W-N:0%



Wave of MSX0 at 2019/05 NO=744(100%)
Hs : MEAN=.5m MAX=1.5m(NE,8s)
N-E:99% E-S:0% S-W:0% W-N:0%

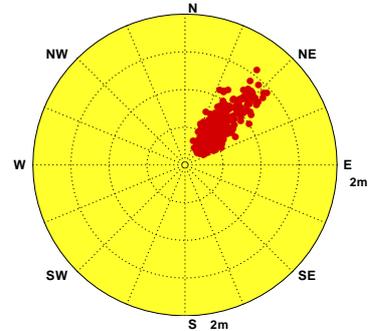


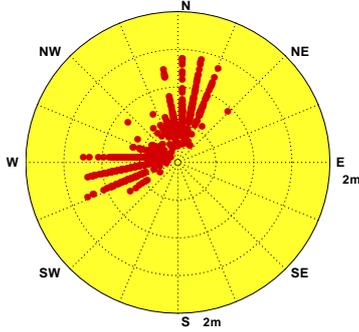
圖7.6b 2019年 5月12海域主要測站2修補後波高向量分佈圖

V195TPY0.1HA V195KLY0.1HA V195SAY0.1HA V195HLY0.1HA V195LTX0.1HA V195PNZ0.1HA
V195KHZ0.1HA V195CNA0.1HA V195TCY0.1HA V195PHX0.1HA V195KMX0.1HA V195MSX0.1HA

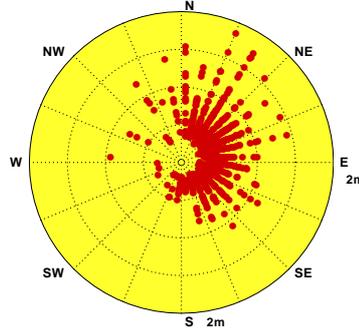
Institute of Harbor & Marine Technology

Distribution of H_s Vectors

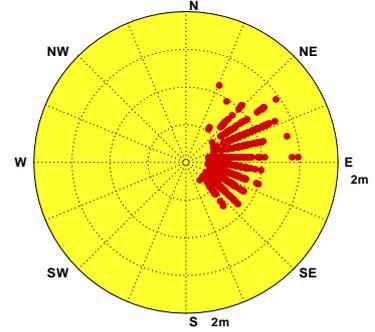
Wave of TPY0 at 2019/06 NO=607(84%)
 Hs : MEAN=.6m MAX=1.4m(WSW,4s)
 N-E:27% E-S:0% S-W:33% W-N:40%



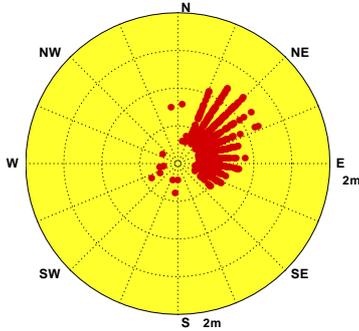
Wave of KLY0 at 2019/06 NO=645(90%)
 Hs : MEAN=.5m MAX=1.8m(NNE,7s)
 N-E:51% E-S:42% S-W:4% W-N:3%



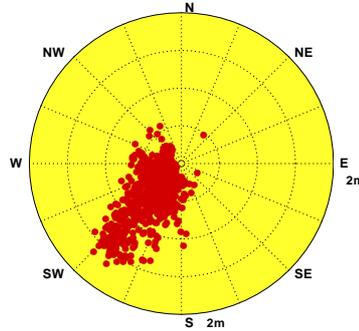
Wave of SAY0 at 2019/06 NO=641(89%)
 Hs : MEAN=.6m MAX=1.4m(E, 5s)
 N-E:30% E-S:70% S-W:0% W-N:0%



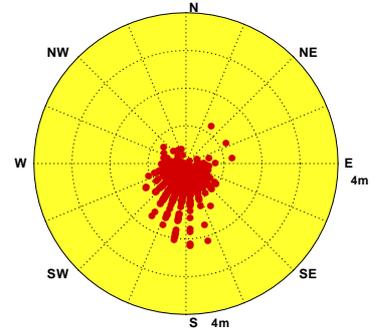
Wave of HLY0 at 2019/06 NO=656(91%)
 Hs : MEAN=.5m MAX=1.1m(NE,6s)
 N-E:63% E-S:36% S-W:1% W-N:0%



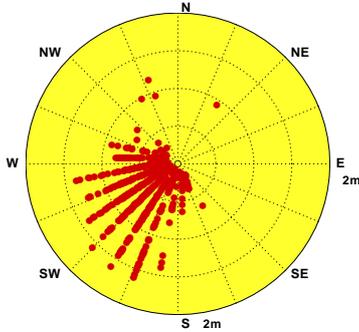
Wave of LTX0 at 2019/06 NO=704(98%)
 Hs : MEAN=.7m MAX=1.8m(SW,5s)
 N-E:0% E-S:1% S-W:92% W-N:7%



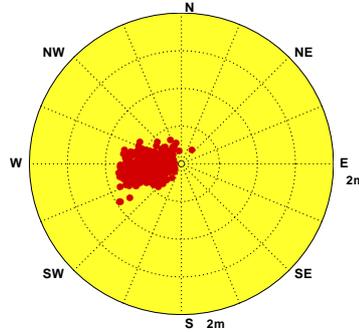
Wave of PNZ0 at 2019/06 NO=639(89%)
 Hs : MEAN=.7m MAX=2.3m(S, 6s)
 N-E:0% E-S:20% S-W:78% W-N:2%



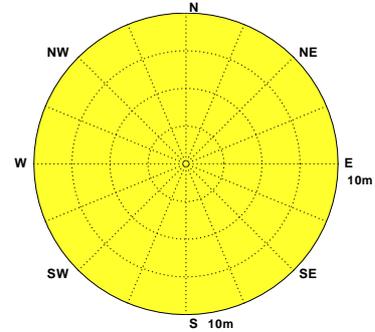
Wave of KHZ0 at 2019/06 NO=554(77%)
 Hs : MEAN=.7m MAX=1.7m(SSW,6s)
 N-E:0% E-S:2% S-W:85% W-N:13%



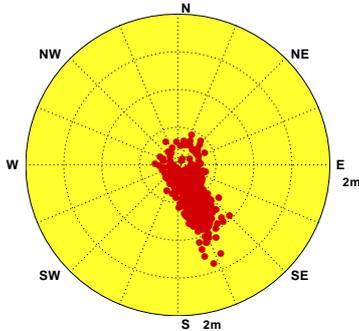
Wave of CNA0 at 2019/06 NO=717(100%)
 Hs : MEAN=.5m MAX=1.0m(WSW,9s)
 N-E:0% E-S:0% S-W:84% W-N:16%



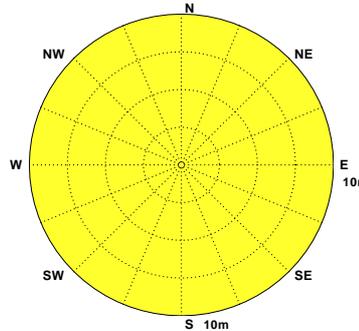
Wave of TCY0 at 2019/06



Wave of PHX0 at 2019/06 NO=714(99%)
 Hs : MEAN=.5m MAX=1.4m(SSE,5s)
 N-E:3% E-S:82% S-W:14% W-N:1%



Wave of KMX0 at 2019/06



Wave of MSX0 at 2019/06 NO=707(98%)
 Hs : MEAN=.3m MAX=.9m(NE,6s)
 N-E:99% E-S:1% S-W:0% W-N:0%

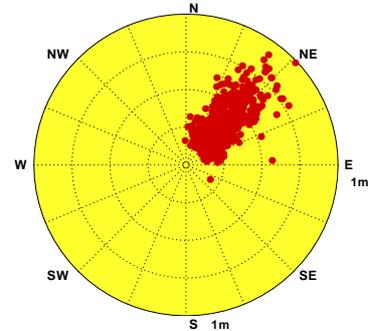


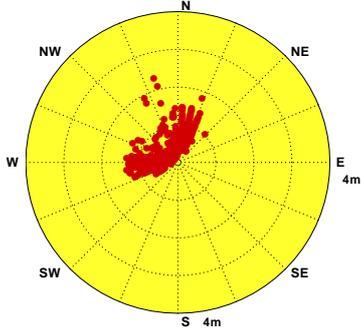
圖7.7a 2019年6月12海域主要測站2修補前波高向量分佈圖

V196TPY0.1H0 V196KLY0.1H0 V196SAY0.1H0 V196HLY0.1H0 V196LTX0.1H0 V196PNZ0.1H0
 V196KHZ0.1H0 V196CNA0.1H0 V196TCY0.1H0 V196PHX0.1H0 V196KMX0.1H0 V196MSX0.1H0

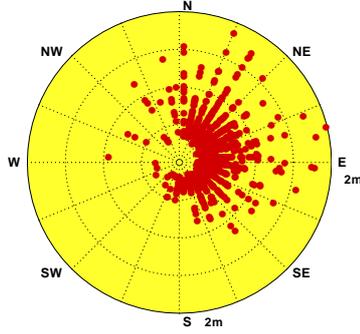
Institute of Harbor & Marine Technology

Distribution of H_s Vectors

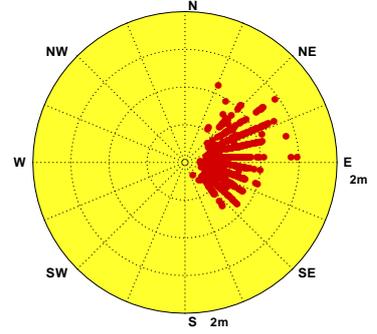
Wave of TPY0 at 2019/06 NO=720(100%)
Hs : MEAN=.7m MAX=2.2m(NNW,5s)
N-E:24% E-S:0% S-W:36% W-N:40%



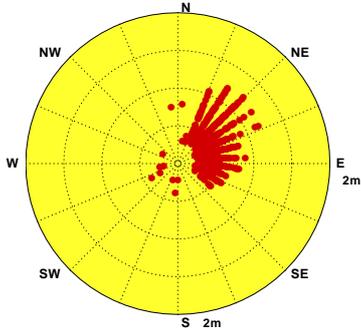
Wave of KLY0 at 2019/06 NO=720(100%)
Hs : MEAN=.6m MAX=1.9m(ENE,5s)
N-E:50% E-S:43% S-W:4% W-N:3%



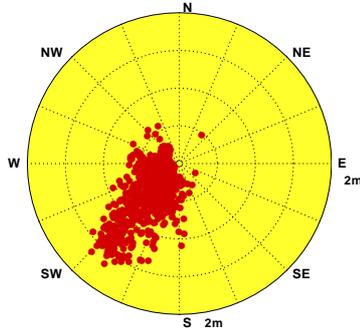
Wave of SAY0 at 2019/06 NO=720(100%)
Hs : MEAN=.6m MAX=1.4m(E, 5s)
N-E:31% E-S:69% S-W:0% W-N:0%



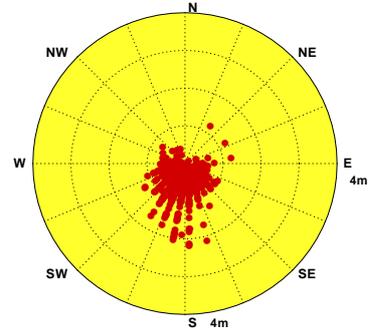
Wave of HLY0 at 2019/06 NO=720(100%)
Hs : MEAN=.5m MAX=1.1m(NE,6s)
N-E:65% E-S:34% S-W:1% W-N:0%



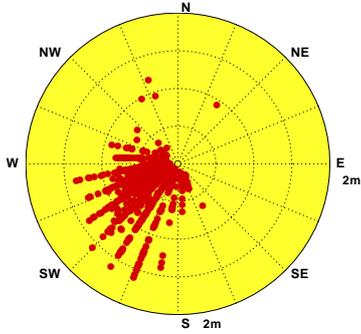
Wave of LTX0 at 2019/06 NO=720(100%)
Hs : MEAN=.7m MAX=1.8m(SW,5s)
N-E:0% E-S:1% S-W:92% W-N:7%



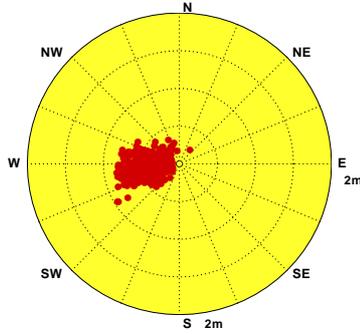
Wave of PNZ0 at 2019/06 NO=720(100%)
Hs : MEAN=.7m MAX=2.3m(S, 6s)
N-E:0% E-S:19% S-W:79% W-N:2%



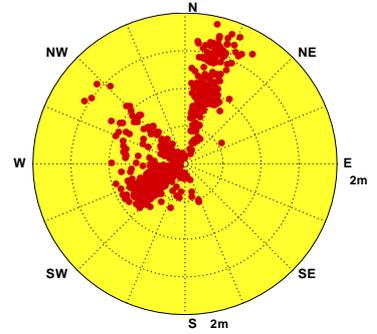
Wave of KHZ0 at 2019/06 NO=720(100%)
Hs : MEAN=.7m MAX=1.7m(SSW,6s)
N-E:0% E-S:1% S-W:89% W-N:10%



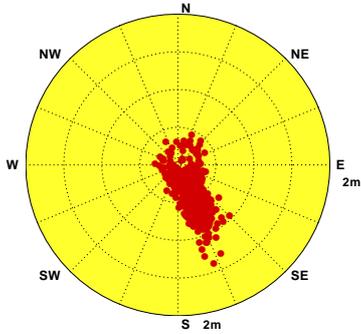
Wave of CNA0 at 2019/06 NO=720(100%)
Hs : MEAN=.5m MAX=1.0m(WSW,9s)
N-E:0% E-S:0% S-W:84% W-N:16%



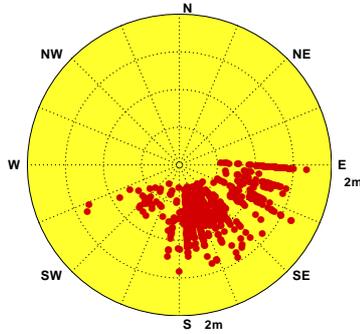
Wave of TCY0 at 2019/06 NO=720(100%)
Hs : MEAN=.6m MAX=1.8m(NNE,5s)
N-E:30% E-S:1% S-W:57% W-N:12%



Wave of PHX0 at 2019/06 NO=720(100%)
Hs : MEAN=.5m MAX=1.4m(SSE,5s)
N-E:3% E-S:82% S-W:14% W-N:1%



Wave of KMX0 at 2019/06 NO=720(100%)
Hs : MEAN=.9m MAX=1.6m(ESE,7s)
N-E:0% E-S:90% S-W:10% W-N:0%



Wave of MSX0 at 2019/06 NO=720(100%)
Hs : MEAN=.3m MAX=.9m(NE,6s)
N-E:98% E-S:1% S-W:1% W-N:0%

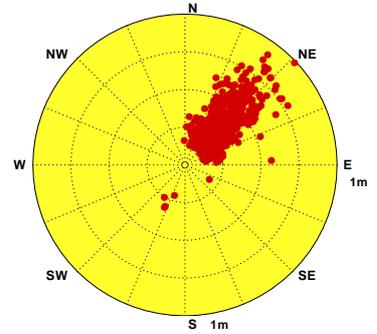


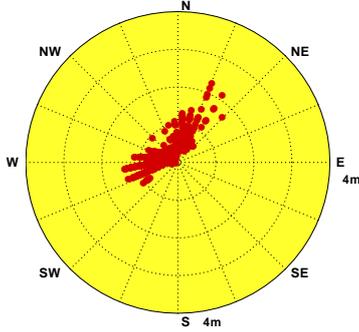
圖7.7b 2019年 6月12海域主要測站2修補後波高向量分佈圖

V196TPY0.1HA V196KLY0.1HA V196SAY0.1HA V196HLY0.1HA V196LTX0.1HA V196PNZ0.1HA
V196KHZ0.1HA V196CNA0.1HA V196TCY0.1HA V196PHX0.1HA V196KMX0.1HA V196MSX0.1HA

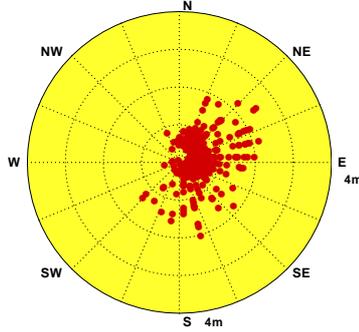
Institute of Harbor & Marine Technology

Distribution of H_s Vectors

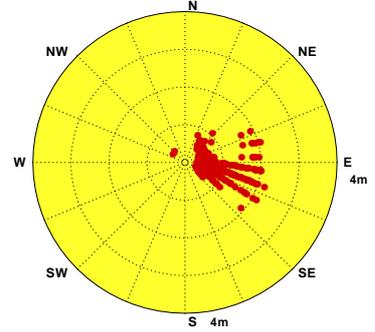
Wave of TPY0 at 2019/07 NO=621(83%)
 Hs : MEAN=.7m MAX=2.1m(NNE,5s)
 N-E:16% E-S:0% S-W:43% W-N:41%



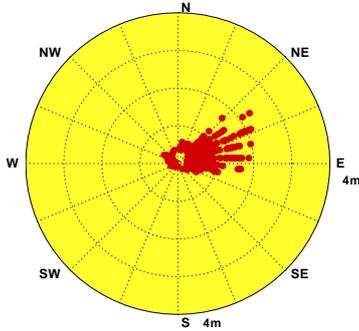
Wave of KLY0 at 2019/07 NO=636(85%)
 Hs : MEAN=.6m MAX=2.3m(NE,7s)
 N-E:40% E-S:51% S-W:7% W-N:2%



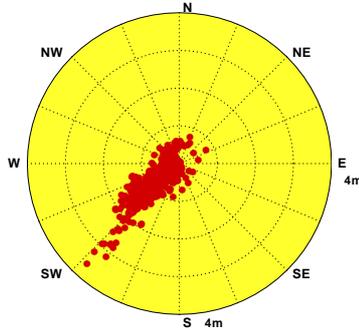
Wave of SAY0 at 2019/07 NO=618(83%)
 Hs : MEAN=.7m MAX=2.1m(ESE,7s)
 N-E:12% E-S:88% S-W:0% W-N:0%



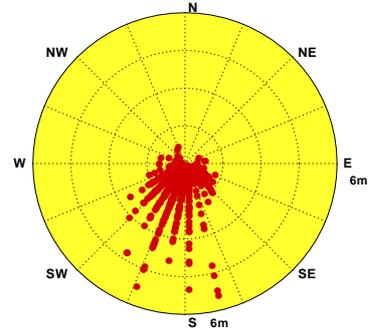
Wave of HLY0 at 2019/07 NO=642(86%)
 Hs : MEAN=.5m MAX=2.1m(NE,7s)
 N-E:46% E-S:49% S-W:3% W-N:2%



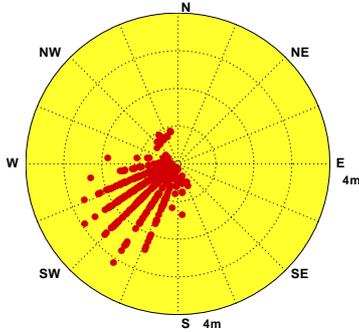
Wave of LTX0 at 2019/07 NO=742(100%)
 Hs : MEAN=.9m MAX=3.8m(SW,8s)
 N-E:1% E-S:1% S-W:89% W-N:9%



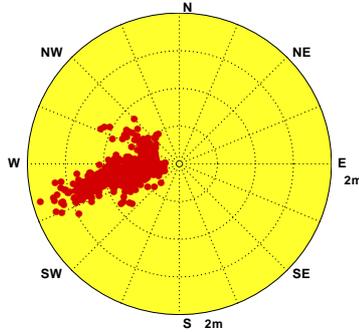
Wave of PNZ0 at 2019/07 NO=630(85%)
 Hs : MEAN=1.3m MAX=5.6m(SSE,8s)
 N-E:0% E-S:16% S-W:83% W-N:1%



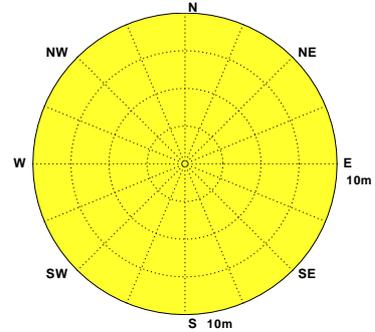
Wave of KHZ0 at 2019/07 NO=450(60%)
 Hs : MEAN=1.2m MAX=3.3m(SSW,7s)
 N-E:0% E-S:0% S-W:95% W-N:5%



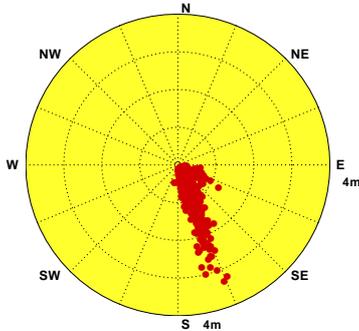
Wave of CNA0 at 2019/07 NO=631(85%)
 Hs : MEAN=.8m MAX=2.0m(WSW,10s)
 N-E:0% E-S:0% S-W:89% W-N:11%



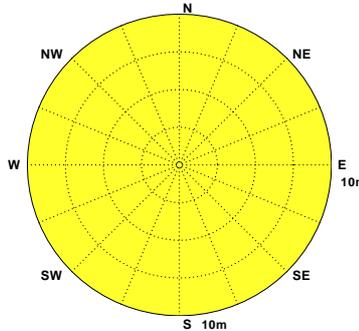
Wave of TCY0 at 2019/07



Wave of PHX0 at 2019/07 NO=743(100%)
 Hs : MEAN=.8m MAX=3.4m(SSE,9s)
 N-E:0% E-S:94% S-W:6% W-N:0%



Wave of KMX0 at 2019/07



Wave of MSX0 at 2019/07 NO=738(99%)
 Hs : MEAN=.3m MAX=.9m(NE,7s)
 N-E:98% E-S:1% S-W:0% W-N:1%

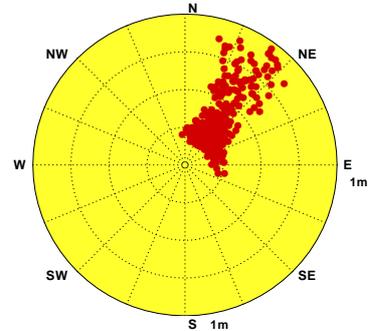


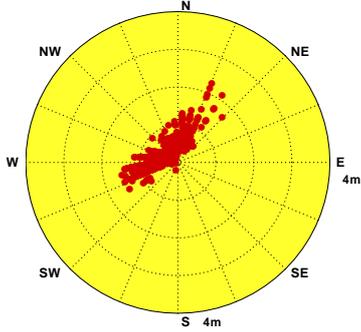
圖7.8a 2019年7月12海域主要測站2修補前波高向量分佈圖

V197TPY0.1H0 V197KLY0.1H0 V197SAY0.1H0 V197HLY0.1H0 V197LTX0.1H0 V197PNZ0.1H0
 V197KHZ0.1H0 V197CNA0.1H0 V197TCY0.1H0 V197PHX0.1H0 V197KMX0.1H0 V197MSX0.1H0

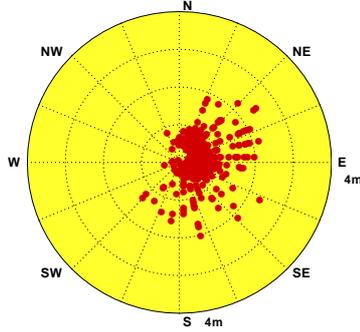
Institute of Harbor & Marine Technology

Distribution of H_s Vectors

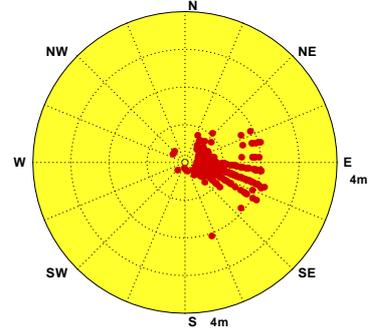
Wave of TPY0 at 2019/07 NO=744(100%)
 Hs : MEAN=.7m MAX=2.1m(NNE,5s)
 N-E:13% E-S:0% S-W:49% W-N:38%



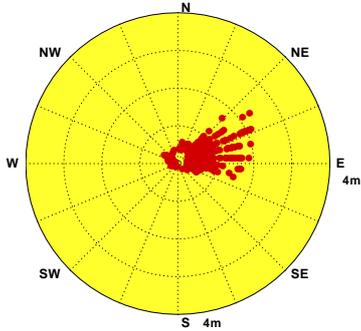
Wave of KLY0 at 2019/07 NO=744(100%)
 Hs : MEAN=.6m MAX=2.3m(ESE,5s)
 N-E:36% E-S:57% S-W:6% W-N:1%



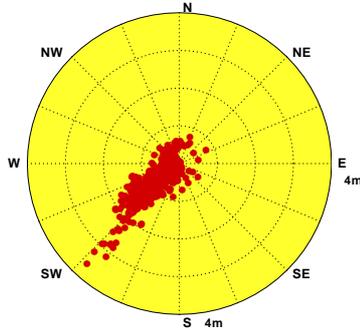
Wave of SAY0 at 2019/07 NO=744(100%)
 Hs : MEAN=.6m MAX=2.2m(SSE,6s)
 N-E:14% E-S:85% S-W:1% W-N:0%



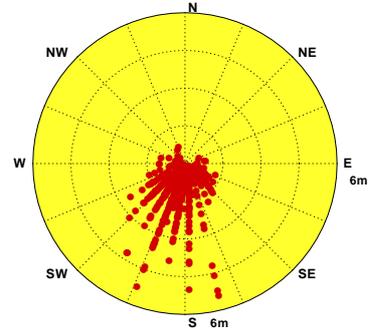
Wave of HLY0 at 2019/07 NO=744(100%)
 Hs : MEAN=.5m MAX=2.1m(NE,7s)
 N-E:41% E-S:55% S-W:3% W-N:1%



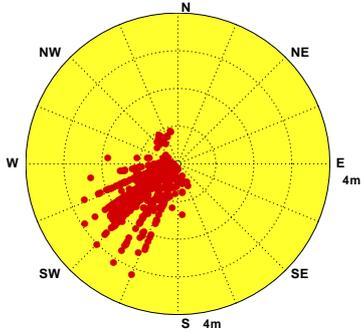
Wave of LTX0 at 2019/07 NO=744(100%)
 Hs : MEAN=.9m MAX=3.8m(SW,8s)
 N-E:1% E-S:1% S-W:89% W-N:9%



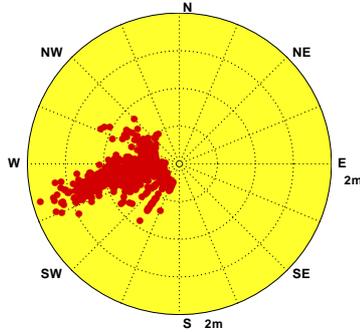
Wave of PNZ0 at 2019/07 NO=744(100%)
 Hs : MEAN=1.3m MAX=5.6m(SSE,8s)
 N-E:0% E-S:15% S-W:84% W-N:1%



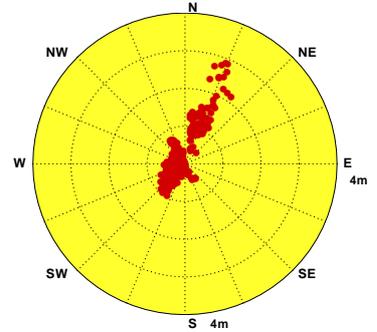
Wave of KHZ0 at 2019/07 NO=744(100%)
 Hs : MEAN=1.2m MAX=3.4m(SSW,7s)
 N-E:0% E-S:0% S-W:96% W-N:4%



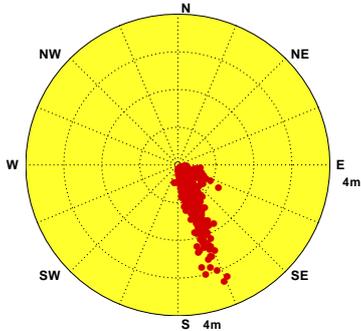
Wave of CNA0 at 2019/07 NO=744(100%)
 Hs : MEAN=.8m MAX=2.0m(WSW,10s)
 N-E:0% E-S:0% S-W:91% W-N:9%



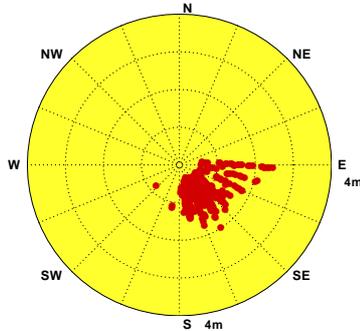
Wave of TCY0 at 2019/07 NO=744(100%)
 Hs : MEAN=.6m MAX=2.7m(NNE,5s)
 N-E:12% E-S:1% S-W:78% W-N:9%



Wave of PHX0 at 2019/07 NO=744(100%)
 Hs : MEAN=.8m MAX=3.4m(SSE,9s)
 N-E:0% E-S:94% S-W:6% W-N:0%



Wave of KMX0 at 2019/07 NO=744(100%)
 Hs : MEAN=1.0m MAX=2.3m(E, 9s)
 N-E:0% E-S:98% S-W:2% W-N:0%



Wave of MSX0 at 2019/07 NO=744(100%)
 Hs : MEAN=.3m MAX=.9m(NE,7s)
 N-E:98% E-S:1% S-W:0% W-N:1%

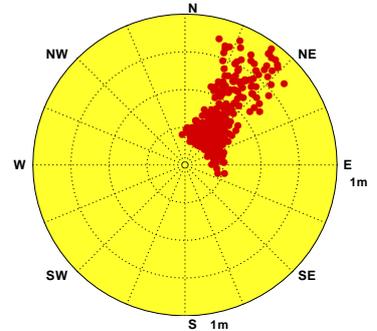


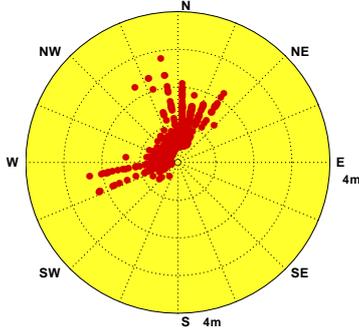
圖7.8b 2019年7月12海域主要測站2修補後波高向量分佈圖

V197TPY0.1HA V197KLY0.1HA V197SAY0.1HA V197HLY0.1HA V197LTX0.1HA V197PNZ0.1HA
 V197KHZ0.1HA V197CNA0.1HA V197TCY0.1HA V197PHX0.1HA V197KMX0.1HA V197MSX0.1HA

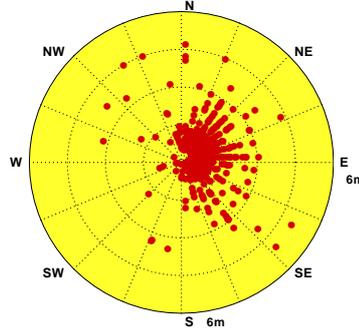
Institute of Harbor & Marine Technology

Distribution of H_s Vectors

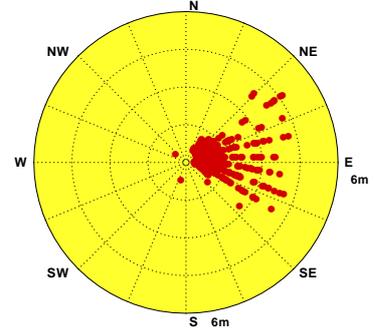
Wave of TPY0 at 2019/08 NO=681(92%)
Hs : MEAN=.8m MAX=2.7m(NNW,6s)
N-E:35% E-S:0% S-W:32% W-N:33%



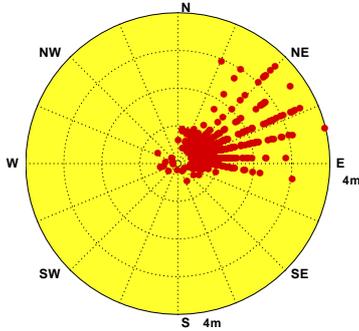
Wave of KLY0 at 2019/08 NO=695(93%)
Hs : MEAN=1.0m MAX=5.1m(SE,10s)
N-E:44% E-S:49% S-W:3% W-N:4%



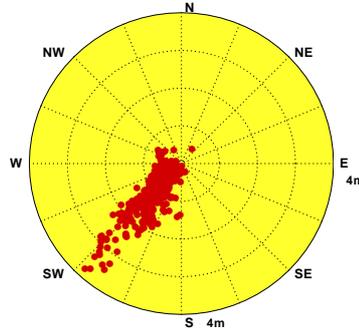
Wave of SAY0 at 2019/08 NO=681(92%)
Hs : MEAN=1.0m MAX=4.4m(NE,11s)
N-E:40% E-S:60% S-W:0% W-N:0%



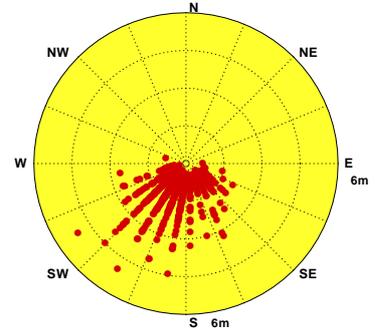
Wave of HLY0 at 2019/08 NO=708(95%)
Hs : MEAN=.9m MAX=3.8m(ENE,10s)
N-E:65% E-S:33% S-W:1% W-N:1%



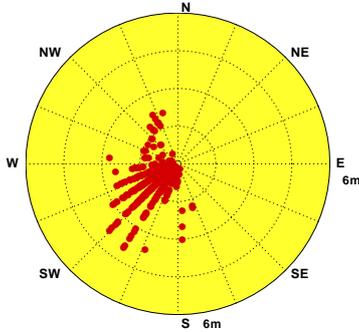
Wave of LTX0 at 2019/08 NO=743(100%)
Hs : MEAN=.9m MAX=4.0m(SW,6s)
N-E:0% E-S:0% S-W:99% W-N:1%



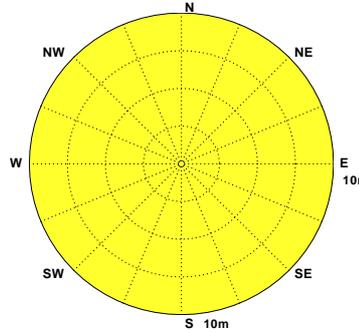
Wave of PNZ0 at 2019/08 NO=686(92%)
Hs : MEAN=1.5m MAX=5.3m(SW,7s)
N-E:0% E-S:16% S-W:84% W-N:0%



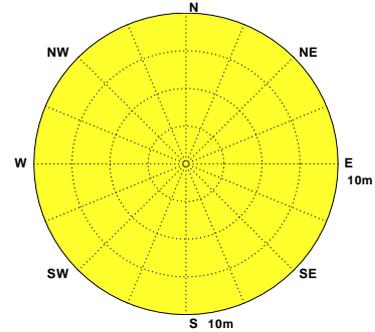
Wave of KHZ0 at 2019/08 NO=500(67%)
Hs : MEAN=1.5m MAX=4.3m(SSW,7s)
N-E:0% E-S:0% S-W:95% W-N:5%



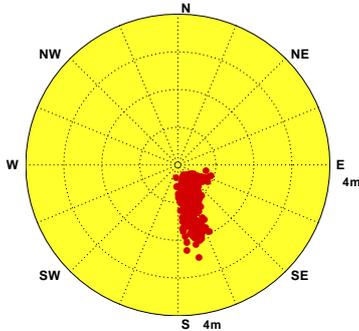
Wave of CNA0 at 2019/08



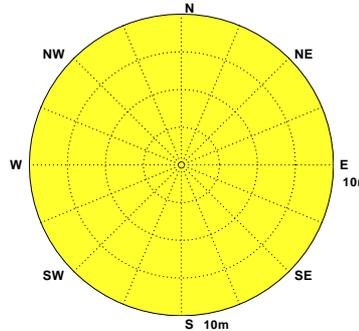
Wave of TCY0 at 2019/08



Wave of PHX0 at 2019/08 NO=538(72%)
Hs : MEAN=1.0m MAX=2.6m(S, 7s)
N-E:0% E-S:95% S-W:5% W-N:0%



Wave of KMX0 at 2019/08



Wave of MSX0 at 2019/08 NO=617(83%)
Hs : MEAN=.5m MAX=2.3m(NE,13s)
N-E:99% E-S:0% S-W:0% W-N:0%

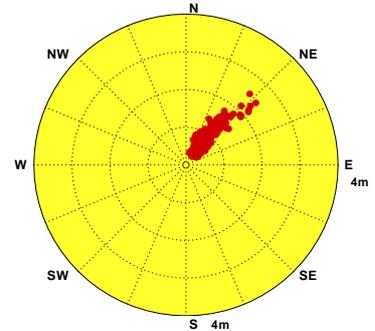


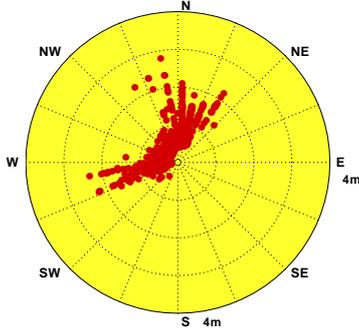
圖7.9a 2019年 8月12海域主要測站2修補前波高向量分佈圖

V198TPY0.1H0 V198KLY0.1H0 V198SAY0.1H0 V198HLY0.1H0 V198LTX0.1H0 V198PNZ0.1H0
V198KHZ0.1H0 V198CNA0.1H0 V198TCY0.1H0 V198PHX0.1H0 V198KMX0.1H0 V198MSX0.1H0

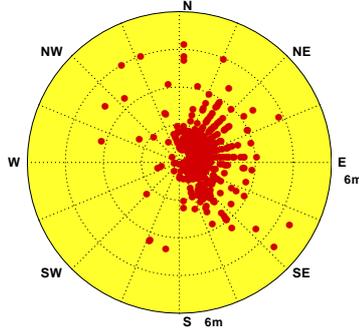
Institute of Harbor & Marine Technology

Distribution of H_s Vectors

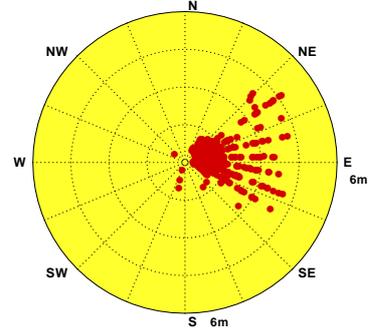
Wave of TPY0 at 2019/08 NO=744(100%)
 Hs : MEAN=.8m MAX=2.7m(NNW,6s)
 N-E:33% E-S:0% S-W:35% W-N:32%



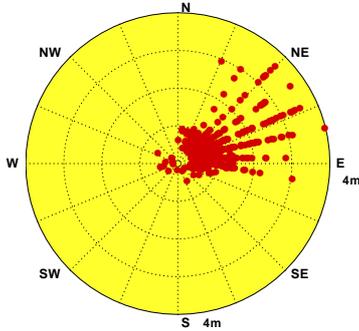
Wave of KLY0 at 2019/08 NO=744(100%)
 Hs : MEAN=1.0m MAX=5.1m(SE,10s)
 N-E:41% E-S:53% S-W:3% W-N:3%



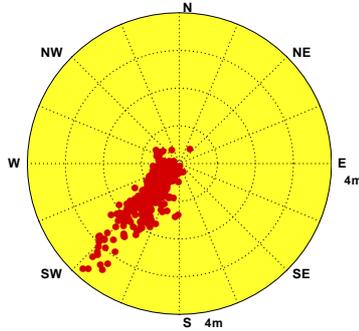
Wave of SAY0 at 2019/08 NO=744(100%)
 Hs : MEAN=1.0m MAX=4.4m(NE,11s)
 N-E:42% E-S:58% S-W:0% W-N:0%



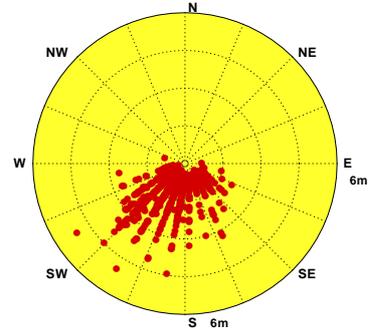
Wave of HLY0 at 2019/08 NO=744(100%)
 Hs : MEAN=.9m MAX=3.8m(ENE,10s)
 N-E:64% E-S:34% S-W:1% W-N:1%



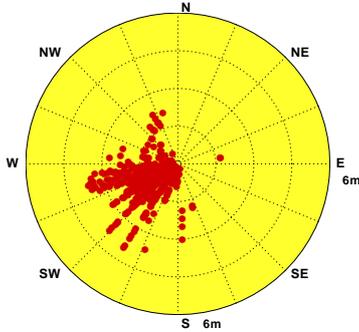
Wave of LTX0 at 2019/08 NO=744(100%)
 Hs : MEAN=.9m MAX=4.0m(SW,6s)
 N-E:0% E-S:0% S-W:99% W-N:1%



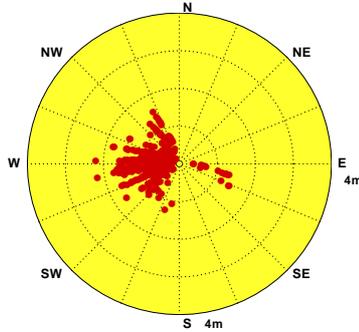
Wave of PNZ0 at 2019/08 NO=744(100%)
 Hs : MEAN=1.6m MAX=5.3m(SW,7s)
 N-E:0% E-S:16% S-W:84% W-N:0%



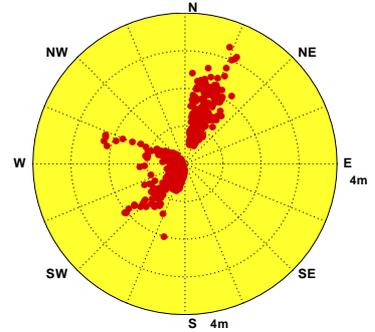
Wave of KHZ0 at 2019/08 NO=744(100%)
 Hs : MEAN=1.6m MAX=4.3m(SSW,7s)
 N-E:0% E-S:0% S-W:95% W-N:5%



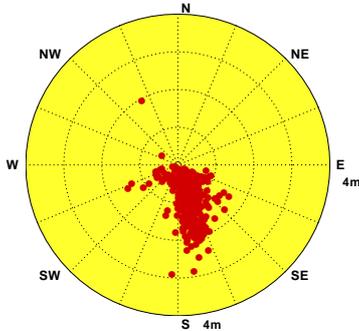
Wave of CNA0 at 2019/08 NO=744(100%)
 Hs : MEAN=.8m MAX=2.3m(WSW,11s)
 N-E:0% E-S:2% S-W:83% W-N:15%



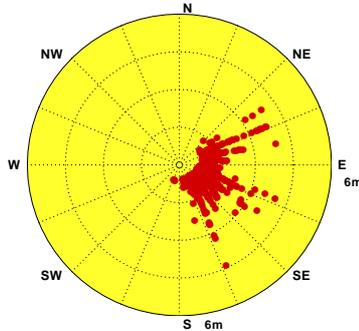
Wave of TCY0 at 2019/08 NO=744(100%)
 Hs : MEAN=.9m MAX=3.1m(NNE,5s)
 N-E:35% E-S:0% S-W:55% W-N:10%



Wave of PHX0 at 2019/08 NO=744(100%)
 Hs : MEAN=.9m MAX=3.1m(S, 9s)
 N-E:0% E-S:86% S-W:14% W-N:0%



Wave of KMX0 at 2019/08 NO=744(100%)
 Hs : MEAN=1.3m MAX=4.5m(SSE,9s)
 N-E:18% E-S:81% S-W:1% W-N:0%



Wave of MSX0 at 2019/08 NO=744(100%)
 Hs : MEAN=.5m MAX=2.3m(NE,13s)
 N-E:99% E-S:0% S-W:0% W-N:0%

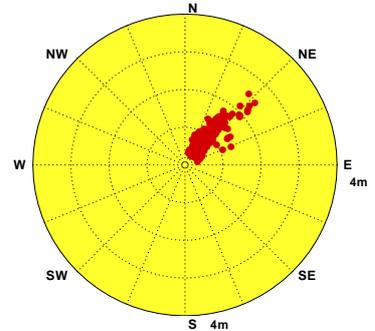


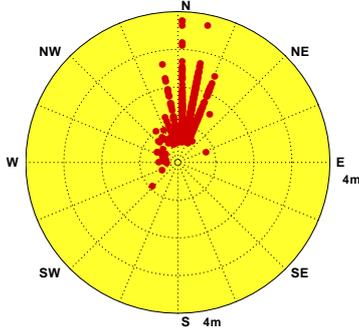
圖7.9b 2019年 8月12海域主要測站2修補後波高向量分佈圖

V198TPY0.1HA V198KLY0.1HA V198SAY0.1HA V198HLY0.1HA V198LTX0.1HA V198PNZ0.1HA
 V198KHZ0.1HA V198CNA0.1HA V198TCY0.1HA V198PHX0.1HA V198KMX0.1HA V198MSX0.1HA

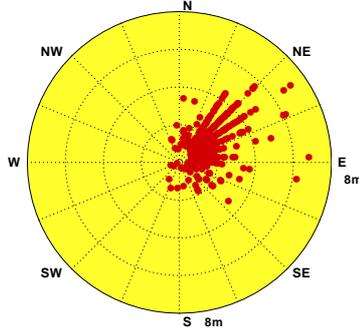
Institute of Harbor & Marine Technology

Distribution of H_s Vectors

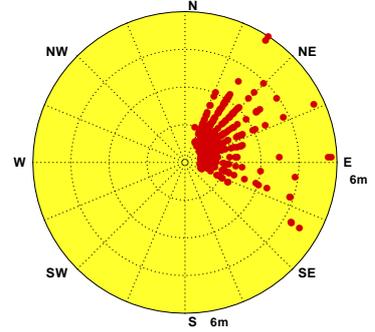
Wave of TPY0 at 2019/09 NO=565(78%)
 Hs : MEAN=1.1m MAX=3.6m(N, 7s)
 N-E:79% E-S:0% S-W:1% W-N:20%



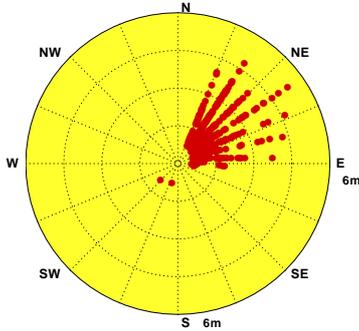
Wave of KLY0 at 2019/09 NO=569(79%)
 Hs : MEAN=1.4m MAX=6.8m(NE,10s)
 N-E:70% E-S:27% S-W:2% W-N:1%



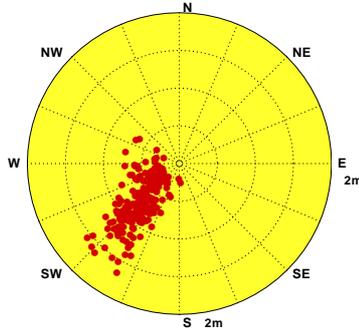
Wave of SAY0 at 2019/09 NO=497(69%)
 Hs : MEAN=1.3m MAX=5.7m(NNE,9s)
 N-E:68% E-S:32% S-W:0% W-N:0%



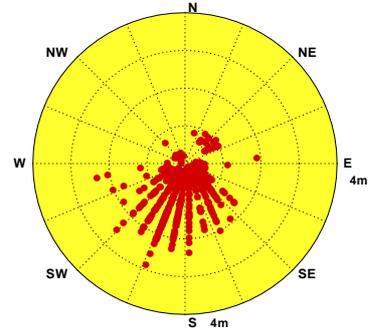
Wave of HLY0 at 2019/09 NO=567(79%)
 Hs : MEAN=1.3m MAX=5.0m(NE,8s)
 N-E:83% E-S:17% S-W:0% W-N:0%



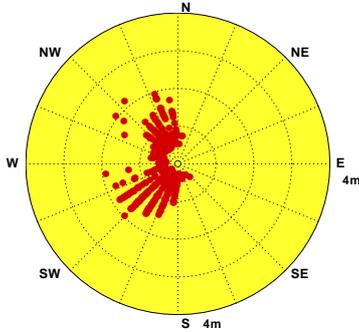
Wave of LTX0 at 2019/09 NO=220(31%)
 Hs : MEAN=.8m MAX=1.8m(SSW,9s)
 N-E:0% E-S:0% S-W:97% W-N:3%



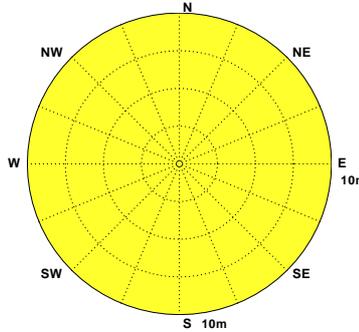
Wave of PNZ0 at 2019/09 NO=536(74%)
 Hs : MEAN=1.0m MAX=3.0m(SSW,7s)
 N-E:3% E-S:40% S-W:56% W-N:1%



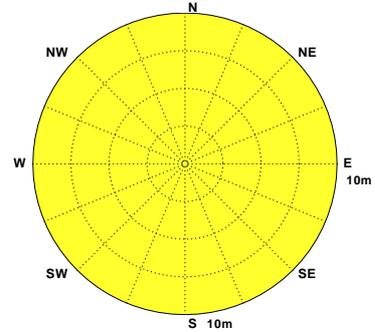
Wave of KHZ0 at 2019/09 NO=416(58%)
 Hs : MEAN=.9m MAX=2.1m(SW,7s)
 N-E:0% E-S:1% S-W:53% W-N:46%



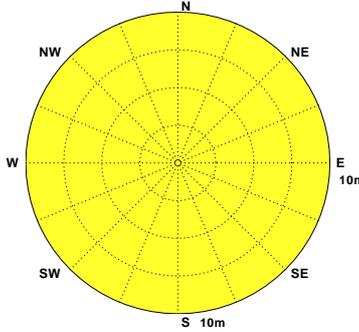
Wave of CNA0 at 2019/09



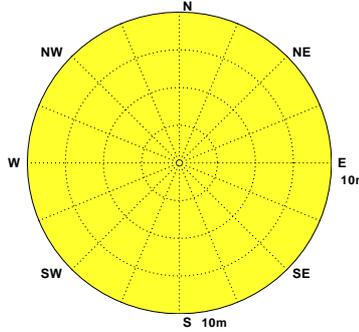
Wave of TCY0 at 2019/09



Wave of PHX0 at 2019/09



Wave of KMX0 at 2019/09



Wave of MSX0 at 2019/09 NO=704(98%)
 Hs : MEAN=.7m MAX=1.5m(NE,10s)
 N-E:99% E-S:0% S-W:0% W-N:0%

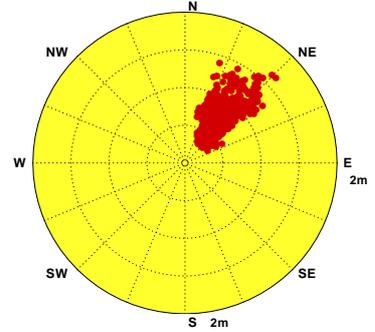


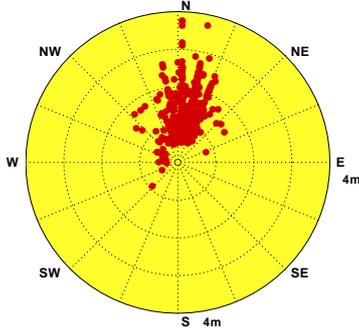
圖7.10a 2019年 9月12海域主要測站2修補前波高向量分佈圖

V199TPY0.1H0 V199KLY0.1H0 V199SAY0.1H0 V199HLY0.1H0 V199LTX0.1H0 V199PNZ0.1H0
 V199KHZ0.1H0 V199CNA0.1H0 V199TCY0.1H0 V199PHX0.1H0 V199KMX0.1H0 V199MSX0.1H0

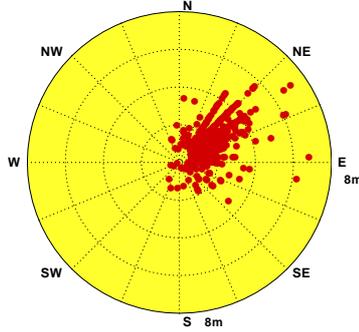
Institute of Harbor & Marine Technology

Distribution of H_s Vectors

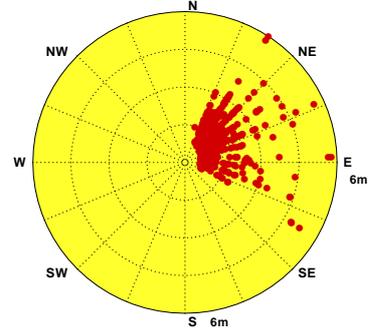
Wave of TPY0 at 2019/09 NO=720(100%)
 Hs : MEAN=1.1m MAX=3.6m(N, 7s)
 N-E:76% E-S:0% S-W:1% W-N:23%



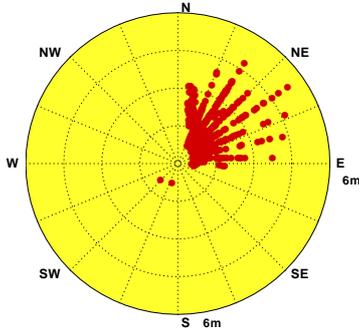
Wave of KLY0 at 2019/09 NO=720(100%)
 Hs : MEAN=1.5m MAX=6.8m(NE,10s)
 N-E:75% E-S:22% S-W:2% W-N:1%



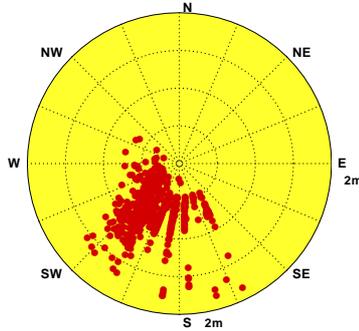
Wave of SAY0 at 2019/09 NO=720(100%)
 Hs : MEAN=1.3m MAX=5.7m(NNE,9s)
 N-E:76% E-S:24% S-W:0% W-N:0%



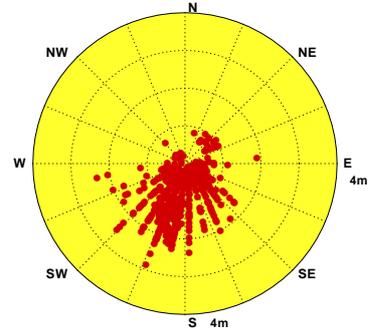
Wave of HLY0 at 2019/09 NO=720(100%)
 Hs : MEAN=1.4m MAX=5.0m(NE,8s)
 N-E:87% E-S:13% S-W:0% W-N:0%



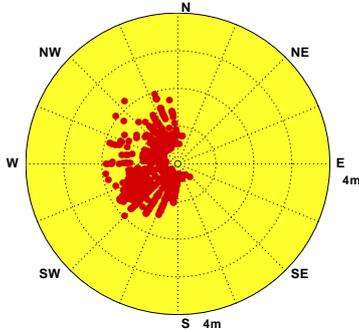
Wave of LTX0 at 2019/09 NO=720(100%)
 Hs : MEAN=.8m MAX=1.9m(SSE,11s)
 N-E:0% E-S:11% S-W:88% W-N:1%



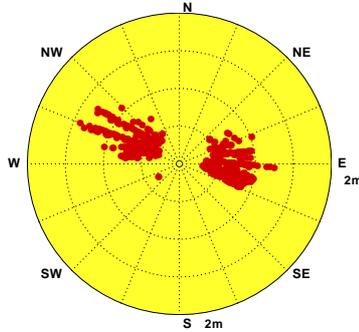
Wave of PNZ0 at 2019/09 NO=720(100%)
 Hs : MEAN=1.1m MAX=3.0m(SSW,7s)
 N-E:3% E-S:33% S-W:63% W-N:1%



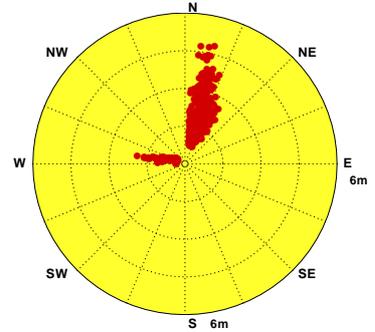
Wave of KHZ0 at 2019/09 NO=720(100%)
 Hs : MEAN=1.1m MAX=2.1m(SW,7s)
 N-E:0% E-S:0% S-W:62% W-N:38%



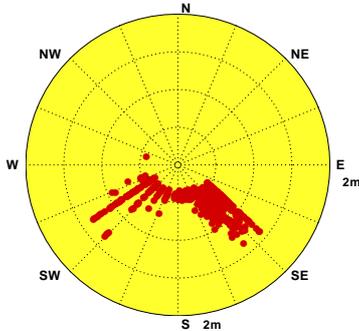
Wave of CNA0 at 2019/09 NO=720(100%)
 Hs : MEAN=.6m MAX=1.4m(WNW,8s)
 N-E:14% E-S:44% S-W:0% W-N:42%



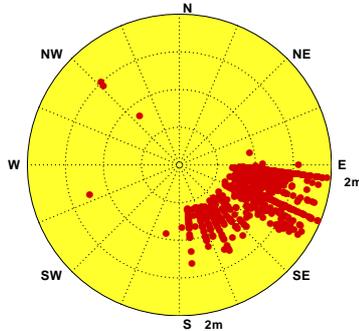
Wave of TCY0 at 2019/09 NO=720(100%)
 Hs : MEAN=1.5m MAX=4.6m(NNE,6s)
 N-E:87% E-S:0% S-W:9% W-N:4%



Wave of PHX0 at 2019/09 NO=720(100%)
 Hs : MEAN=.7m MAX=1.4m(SW,9s)
 N-E:0% E-S:76% S-W:24% W-N:0%



Wave of KMX0 at 2019/09 NO=720(100%)
 Hs : MEAN=1.1m MAX=1.9m(ESE,8s)
 N-E:0% E-S:99% S-W:0% W-N:0%



Wave of MSX0 at 2019/09 NO=720(100%)
 Hs : MEAN=.6m MAX=1.5m(NE,10s)
 N-E:99% E-S:0% S-W:0% W-N:0%

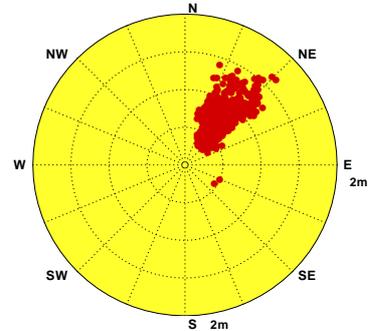


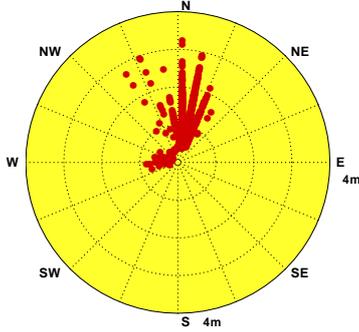
圖7.10b 2019年 9月12海域主要測站2修補後波高向量分佈圖

V199TPY0.1HA V199KLY0.1HA V199SAY0.1HA V199HLY0.1HA V199LTX0.1HA V199PNZ0.1HA
 V199KHZ0.1HA V199CNA0.1HA V199TCY0.1HA V199PHX0.1HA V199KMX0.1HA V199MSX0.1HA

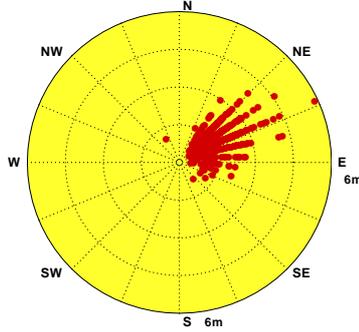
Institute of Harbor & Marine Technology

Distribution of H_s Vectors

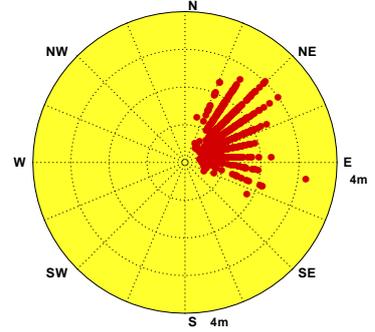
Wave of TPY0 at 2019/10 NO=694(93%)
Hs : MEAN=1.1m MAX=3.1m(N , 6s)
N-E:84% E-S:0% S-W:3% W-N:13%



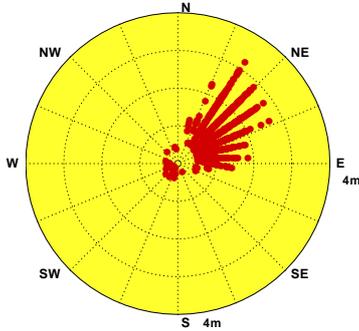
Wave of KLY0 at 2019/10 NO=701(94%)
Hs : MEAN=1.4m MAX=5.6m(ENE,10s)
N-E:86% E-S:14% S-W:0% W-N:0%



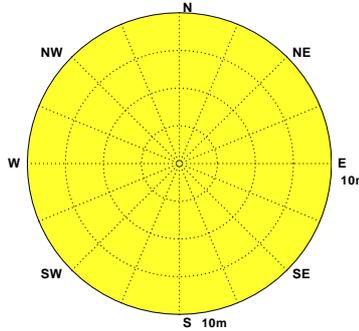
Wave of SAY0 at 2019/10 NO=664(89%)
Hs : MEAN=1.2m MAX=3.1m(E , 11s)
N-E:82% E-S:18% S-W:0% W-N:0%



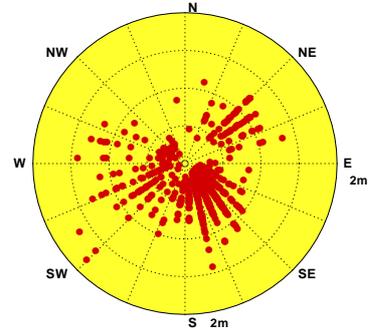
Wave of HLY0 at 2019/10 NO=701(94%)
Hs : MEAN=1.2m MAX=3.0m(NNE,7s)
N-E:87% E-S:11% S-W:2% W-N:0%



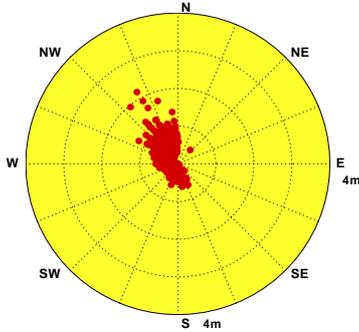
Wave of LTX0 at 2019/10



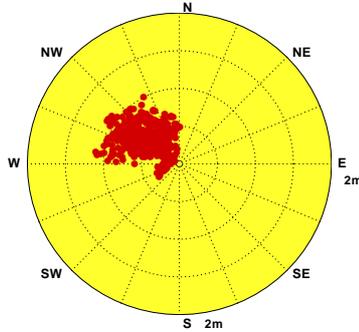
Wave of PNZ0 at 2019/10 NO=623(84%)
Hs : MEAN=.6m MAX=1.9m(SW,5s)
N-E:11% E-S:63% S-W:20% W-N:6%



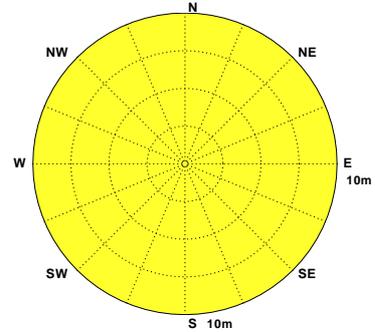
Wave of KHZ0 at 2019/10 NO=525(71%)
Hs : MEAN=.6m MAX=2.1m(NW,5s)
N-E:0% E-S:1% S-W:15% W-N:84%



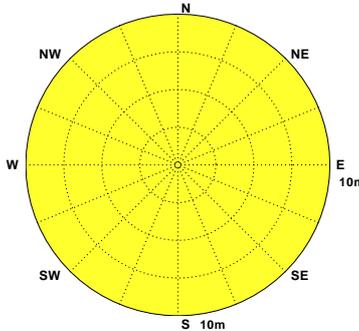
Wave of CNA0 at 2019/10 NO=620(83%)
Hs : MEAN=.5m MAX=1.2m(W , 9s)
N-E:0% E-S:0% S-W:8% W-N:92%



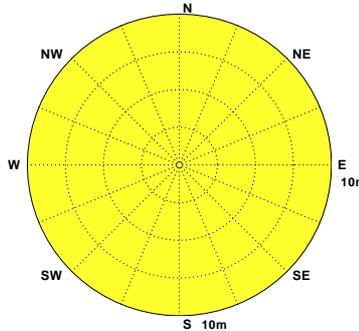
Wave of TCY0 at 2019/10



Wave of PHX0 at 2019/10



Wave of KMX0 at 2019/10



Wave of MSX0 at 2019/10 NO=736(99%)
Hs : MEAN=.6m MAX=1.7m(NE,11s)
N-E:99% E-S:0% S-W:0% W-N:0%

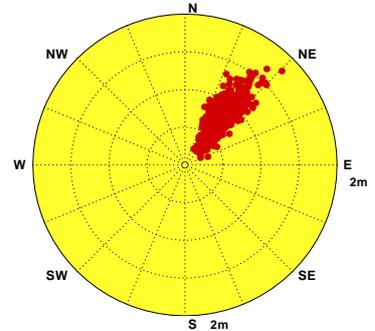


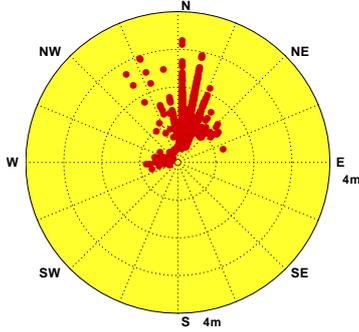
圖7.11a 2019年10月12海域主要測站2修補前波高向量分佈圖

V19ATPY0.1H0 V19AKLY0.1H0 V19ASAY0.1H0 V19AHLX0.1H0 V19ALTXX0.1H0 V19APNZ0.1H0
V19AKHZ0.1H0 V19ACNA0.1H0 V19ATCY0.1H0 V19APHX0.1H0 V19AKMX0.1H0 V19AMSX0.1H0

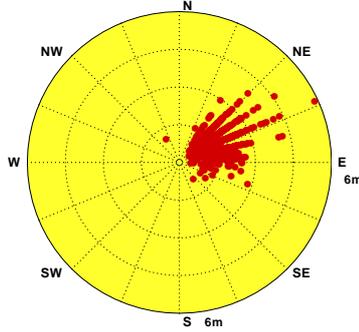
Institute of Harbor & Marine Technology

Distribution of H_s Vectors

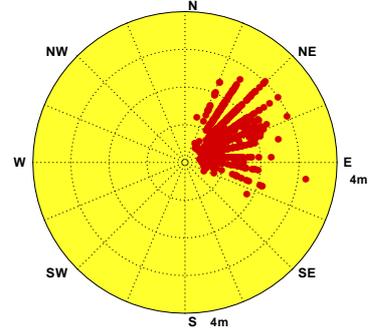
Wave of TPY0 at 2019/10 NO=744(100%)
 Hs : MEAN=1.1m MAX=3.1m(N , 6s)
 N-E:84% E-S:0% S-W:3% W-N:13%



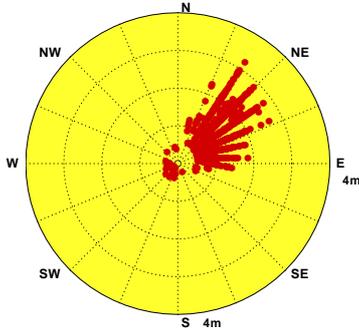
Wave of KLY0 at 2019/10 NO=744(100%)
 Hs : MEAN=1.4m MAX=5.6m(ENE,10s)
 N-E:84% E-S:16% S-W:0% W-N:0%



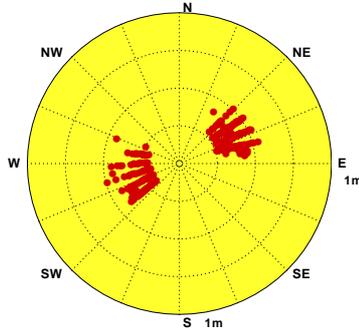
Wave of SAY0 at 2019/10 NO=744(100%)
 Hs : MEAN=1.2m MAX=3.1m(E , 11s)
 N-E:83% E-S:17% S-W:0% W-N:0%



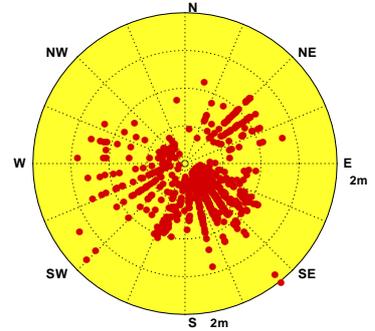
Wave of HLY0 at 2019/10 NO=744(100%)
 Hs : MEAN=1.3m MAX=3.0m(NNE,7s)
 N-E:88% E-S:10% S-W:2% W-N:0%



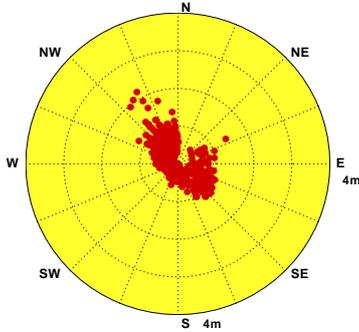
Wave of LTX0 at 2019/10 NO=744(100%)
 Hs : MEAN=.3m MAX=.5m(W,15s)
 N-E:76% E-S:0% S-W:22% W-N:2%



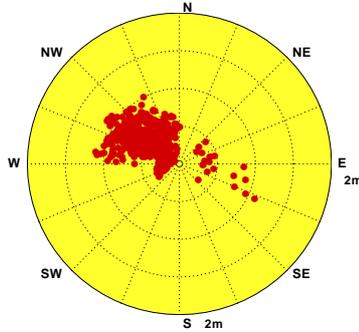
Wave of PNZ0 at 2019/10 NO=744(100%)
 Hs : MEAN=.6m MAX=2.0m(SE,6s)
 N-E:10% E-S:62% S-W:22% W-N:6%



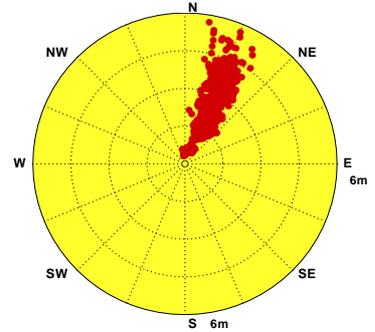
Wave of KHZ0 at 2019/10 NO=744(100%)
 Hs : MEAN=.7m MAX=2.1m(NW,5s)
 N-E:2% E-S:26% S-W:11% W-N:61%



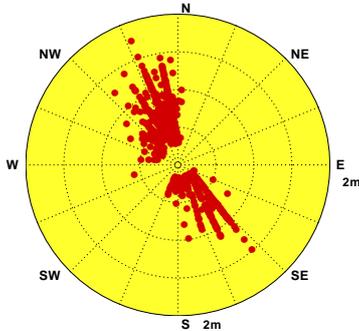
Wave of CNA0 at 2019/10 NO=744(100%)
 Hs : MEAN=.5m MAX=1.2m(W , 9s)
 N-E:1% E-S:2% S-W:7% W-N:90%



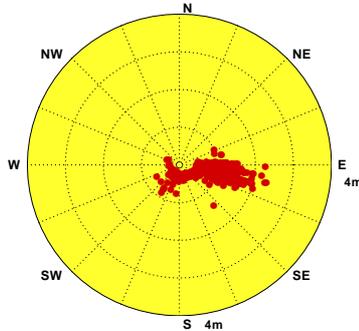
Wave of TCY0 at 2019/10 NO=744(100%)
 Hs : MEAN=2.3m MAX=5.5m(N , 7s)
 N-E:96% E-S:0% S-W:0% W-N:4%



Wave of PHX0 at 2019/10 NO=744(100%)
 Hs : MEAN=.6m MAX=1.7m(NNW,8s)
 N-E:0% E-S:24% S-W:4% W-N:72%



Wave of KMX0 at 2019/10 NO=744(100%)
 Hs : MEAN=1.0m MAX=2.3m(ESE,8s)
 N-E:1% E-S:91% S-W:8% W-N:0%



Wave of MSX0 at 2019/10 NO=744(100%)
 Hs : MEAN=.6m MAX=1.7m(NE,11s)
 N-E:99% E-S:0% S-W:0% W-N:0%

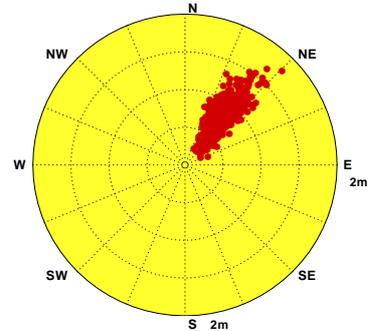


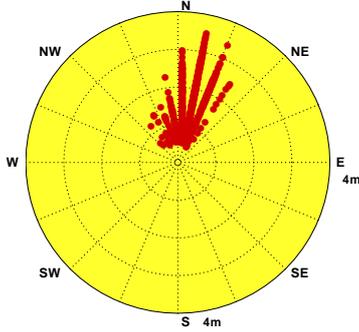
圖7.11b 2019年10月12海域主要測站2修補後波高向量分佈圖

V19ATPY0.1HA V19AKLY0.1HA V19ASAY0.1HA V19AHLY0.1HA V19ALT0.1HA V19APNZ0.1HA
 V19AKHZ0.1HA V19ACNA0.1HA V19ATCY0.1HA V19APHX0.1HA V19AKMX0.1HA V19AMSX0.1HA

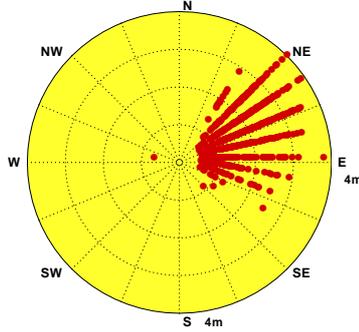
Institute of Harbor & Marine Technology

Distribution of H_s Vectors

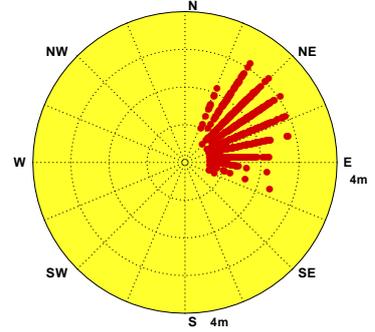
Wave of TPY0 at 2019/11 NO=713(99%)
 Hs : MEAN=1.6m MAX=3.3m(N, 6s)
 N-E:90% E-S:0% S-W:0% W-N:10%



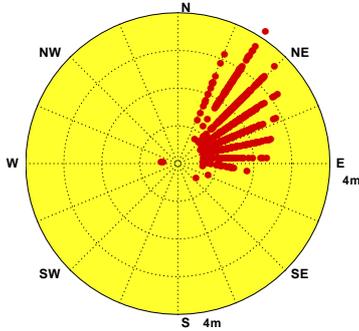
Wave of KLY0 at 2019/11 NO=720(100%)
 Hs : MEAN=1.7m MAX=3.8m(NE,8s)
 N-E:77% E-S:23% S-W:0% W-N:0%



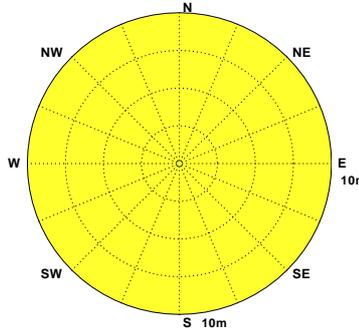
Wave of SAY0 at 2019/11 NO=713(99%)
 Hs : MEAN=1.6m MAX=3.0m(NE,7s)
 N-E:82% E-S:18% S-W:0% W-N:0%



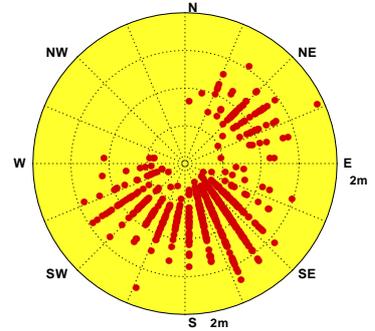
Wave of HLY0 at 2019/11 NO=720(100%)
 Hs : MEAN=1.6m MAX=4.0m(NNE,7s)
 N-E:90% E-S:10% S-W:0% W-N:0%



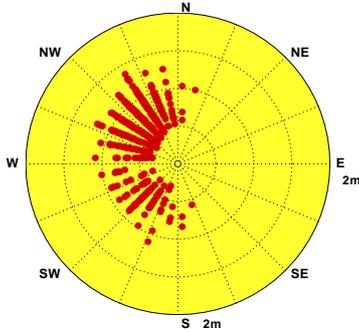
Wave of LTX0 at 2019/11



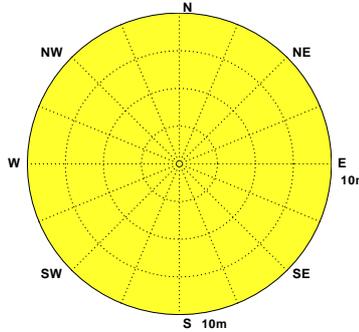
Wave of PNZ0 at 2019/11 NO=604(84%)
 Hs : MEAN=.9m MAX=1.9m(SSW,6s)
 N-E:13% E-S:58% S-W:28% W-N:1%



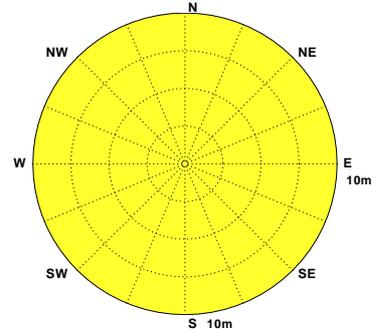
Wave of KHZ0 at 2019/11 NO=550(76%)
 Hs : MEAN=.8m MAX=1.3m(NW,6s)
 N-E:1% E-S:0% S-W:17% W-N:82%



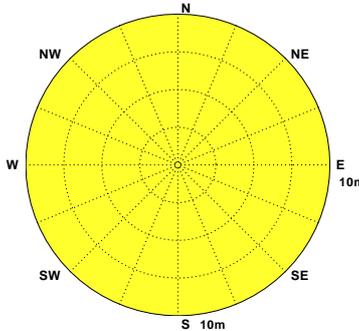
Wave of CNA0 at 2019/11



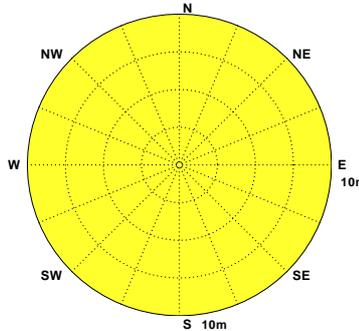
Wave of TCY0 at 2019/11



Wave of PHX0 at 2019/11



Wave of KMX0 at 2019/11



Wave of MSX0 at 2019/11 NO=714(99%)
 Hs : MEAN=.8m MAX=1.7m(NE,9s)
 N-E:99% E-S:0% S-W:0% W-N:0%

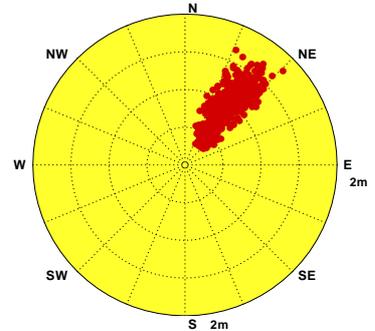


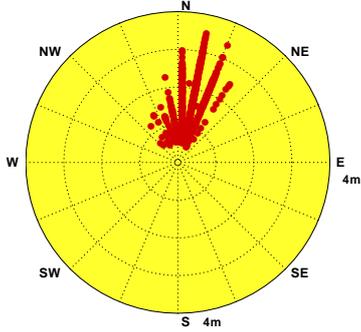
圖7.12a 2019年11月12海域主要測站2修補前波高向量分佈圖

V19BTPY0.1H0 V19BKLY0.1H0 V19BSAY0.1H0 V19BHLY0.1H0 V19BLTX0.1H0 V19BPNZ0.1H0
 V19BKHZ0.1H0 V19BCNA0.1H0 V19BTCY0.1H0 V19BPHX0.1H0 V19BKMX0.1H0 V19BMSX0.1H0

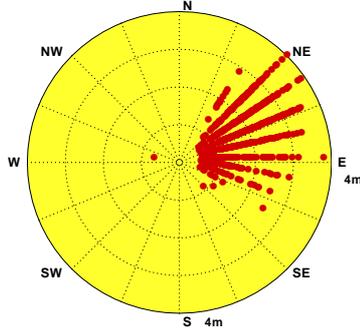
Institute of Harbor & Marine Technology

Distribution of H_s Vectors

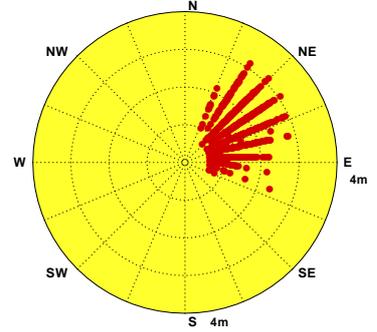
Wave of TPY0 at 2019/11 NO=720(100%)
Hs : MEAN=1.6m MAX=3.3m(N, 6s)
N-E:90% E-S:0% S-W:0% W-N:10%



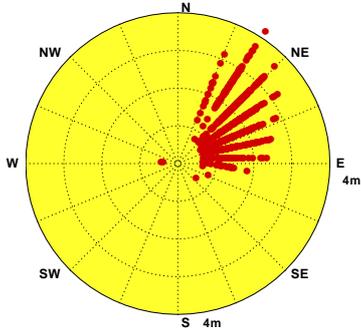
Wave of KLY0 at 2019/11 NO=720(100%)
Hs : MEAN=1.7m MAX=3.8m(NE,8s)
N-E:77% E-S:23% S-W:0% W-N:0%



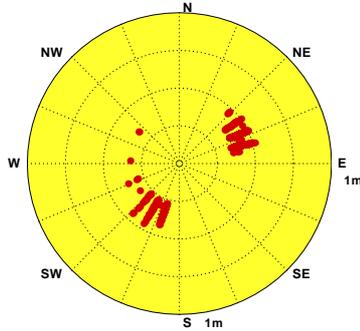
Wave of SAY0 at 2019/11 NO=720(100%)
Hs : MEAN=1.6m MAX=3.0m(NE,7s)
N-E:82% E-S:18% S-W:0% W-N:0%



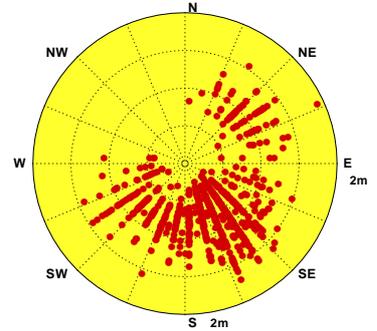
Wave of HLY0 at 2019/11 NO=720(100%)
Hs : MEAN=1.6m MAX=4.0m(NNE,7s)
N-E:90% E-S:10% S-W:0% W-N:0%



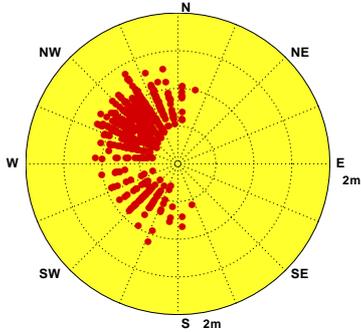
Wave of LTX0 at 2019/11 NO=720(100%)
Hs : MEAN=.4m MAX=.5m(SSW,12s)
N-E:67% E-S:0% S-W:33% W-N:0%



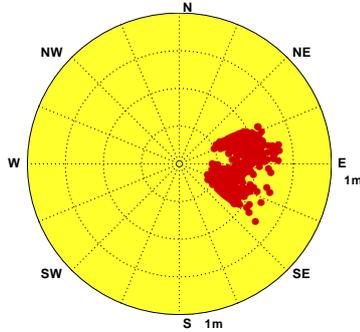
Wave of PNZ0 at 2019/11 NO=720(100%)
Hs : MEAN=.9m MAX=1.8m(ENE,6s)
N-E:12% E-S:61% S-W:26% W-N:1%



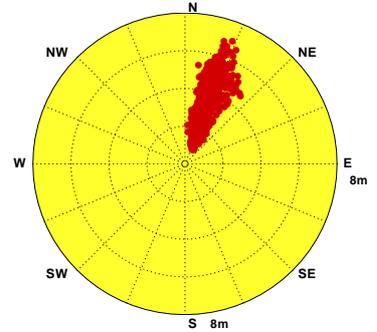
Wave of KHZ0 at 2019/11 NO=720(100%)
Hs : MEAN=.8m MAX=1.3m(NW,6s)
N-E:1% E-S:0% S-W:13% W-N:86%



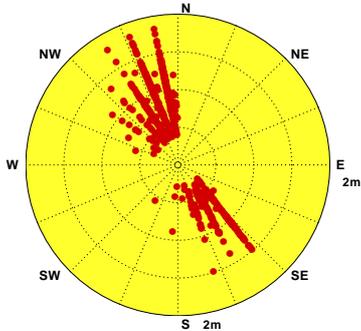
Wave of CNA0 at 2019/11 NO=720(100%)
Hs : MEAN=.4m MAX=.6m(SE,15s)
N-E:54% E-S:46% S-W:0% W-N:0%



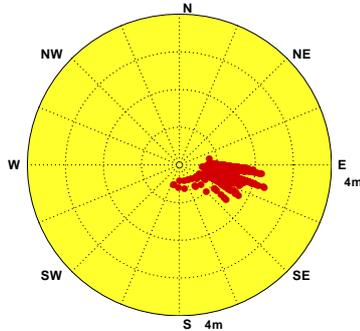
Wave of TCY0 at 2019/11 NO=720(100%)
Hs : MEAN=3.2m MAX=6.6m(NNE,7s)
N-E:99% E-S:0% S-W:0% W-N:0%



Wave of PHX0 at 2019/11 NO=720(100%)
Hs : MEAN=.9m MAX=1.8m(NNW,9s)
N-E:0% E-S:28% S-W:1% W-N:71%



Wave of KMX0 at 2019/11 NO=720(100%)
Hs : MEAN=1.2m MAX=2.3m(ESE,8s)
N-E:0% E-S:99% S-W:1% W-N:0%



Wave of MSX0 at 2019/11 NO=720(100%)
Hs : MEAN=.8m MAX=1.7m(NE,9s)
N-E:99% E-S:0% S-W:0% W-N:0%

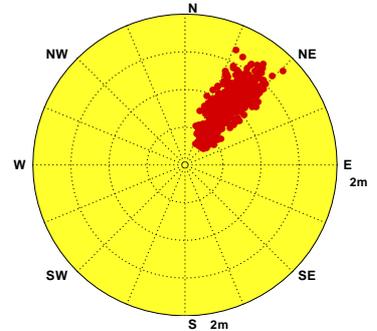


圖7.12b 2019年11月12海域主要測站2修補後波高向量分佈圖

V19BTPY0.1HA V19BKLY0.1HA V19BSAY0.1HA V19BHLY0.1HA V19BLTX0.1HA V19BPNZ0.1HA
V19BKHZ0.1HA V19BCNA0.1HA V19BTCY0.1HA V19BPHX0.1HA V19BKMX0.1HA V19BMSX0.1HA

Institute of Harbor & Marine Technology