



Progress Report on the GNSS at Tide Gauge Data Assembly Center: SONEL Data Holdings & Tools to access the data

(Status report as of April 9th, 2019)

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Foreword

In 2009, the GLOSS program convened a workshop on "*Precision Observations of Vertical Land Motion at Tide Gauges*" before its XIth Group of Experts meeting. The main objective was to review the geodetic methods that could provide a means to accurately express the tide gauge data in the same geocentric reference frame as the satellite altimetry data, and to monitor the vertical land movements that are recorded by the tide gauges at the sub-millimeter per year precision level, hence enabling their separation from the climatic signals. One of the main conclusions of the workshop was that the Global Positioning System (GPS) had reached the maturity to address these issues, provided continuous GPS observations were carried out at the tide gauge and were made available to any group that has the knowledge and experience to analyze the data using the state-of-the art data analysis strategies, models and corrections. Most of these groups are committed to the International GNSS service (IGS) working group named TIGA. (Note that GPS was the first operational system of the several Global Navigation Satellite Systems (GNSS) available today). In the following, we will use the general term of GNSS, instead of GPS.

Another important conclusion from the mentioned workshop was that the GLOSS program should designate a dedicated "GNSS at tide gauge" data assembly center. To further examine this issue of a dedicated data center, a follow up meeting was organized at the University of Hawaii Sea Level Center (UHSLC) in 2010. The proposal of the SONEL data center, which has been acting as primary data center for the TIGA since 2001 was retained, and finally adopted at the XIIth GLOSS Group of Experts meeting in 2011. The GLOSS Implementation Plan released in 2012 recognizes that data center as an associated infrastructure, along with the other dedicated data centers of the program such as the UHSLC or the PSMSL (IOC, 2012).

Consistently, the GLOSS implementation plan calls for the important upgrade of its core network sea level stations with continuous GNSS stations, and that their observations be provided to its dedicated data assembly center (SONEL), so that the observations and generated products be public and free to anyone in line with the IOC/UNESCO Oceanographic Data Exchange Policy.

This report is the fourth status report of the SONEL GNSS at tide gauges data center since its inception in GLOSS. Most of the illustrations herein are extracted from the Internet portal of SONEL, and continuously updated versions can be viewed at www.sonel.org.

Table of contents

Foreword	
I- GNSS data holdings at SONEL	
1. Global status overview	
2. GLOSS Core Network status overview	
II- Data access tools and products	
1. General	
2. GNSS solutions	9
a) Global comprehensive view	9
b) Local specific view (concerning a particular station)	
III- Work in progress and perspectives	
1. Other vertical velocity solutions (TIGA, IGS, DORIS)	
2. Tide gauge to GNSS antenna local connections (leveling data)	
3. Summary of major limitations today	
IV- Users statistics and feedbacks	
Acknowledgements	
References	



Wake Is. (GLOSS 105)



Palau Is. (GLOSS 120) Examples of GLOSS Core Network stations equiped with continuous GNSS since 2017

I- GNSS data holdings at SONEL

1. Global status overview

SONEL has currently identified 895 tide gauges for which a GNSS station is nearby (within ~15km), or from the other point of view 1109 GNSS stations that are nearby a tide gauge site (Figure 1). Among these GNSS stations **559 are active at 542 tide gauges** (a data file was successfully retrieved within the last 30 days, in green on Figure 1), 227 are dormant (no data for the last 30 days, in orange on Figure 1), and 166 are decommissioned (in red on Figure 1). It should be noted that 157 GNSS stations have no data available in SONEL (in blue on Figure 1), mostly because of commercial restrictions. Note that all the values in this report correspond to the status as of April 5th, 2019. As of April 2019, the SONEL data assembly center contains more than 4,780,000 daily station files of GNSS measurements in RINEX format, **contributed by nearly 190 different organizations**.



Figure 1: Status of the GNSS@TG data available on SONEL (April 2019). The numbers within the symbols indicate the number of GNSS stations grouped at that location/symbol for visualization purposes. The online version of this map enables to zoom out, and separate the locations of each GNSS. Online version at: http://www.sonel.org/-GPS-.html

Since the 15th session of the GLOSS Group of Experts meeting in July 2017, 11 new GNSS stations nearby a GLOSS Core Network tide gauge have been identified and their data collected into SONEL. Among these, two are replacing a decommissioned GNSS station (at Palau, GLOSS 120, and at Cilacap, GLOSS 291). Thus, 9 GLOSS Core Network tide gauges out of the above 11 did not have any

GNSS in 2017. It should also be noted that data are available in SONEL for only 5 of the 11 new GNSS stations at GLOSS sites. (Note that by GNSS it is meant a continuous GNSS station).

Figure 2 shows the evolution of the number of daily GNSS data files, which informs on the number of GNSS stations actually operational. As many as 720 stations are reported ("Total" curve, in blue), which includes both the GNSS at tide gauges and the reference frame stations. The latter reference frame stations are essential in the GNSS data analysis to ensure the realization of a stable geocentric reference frame over the entire data span.

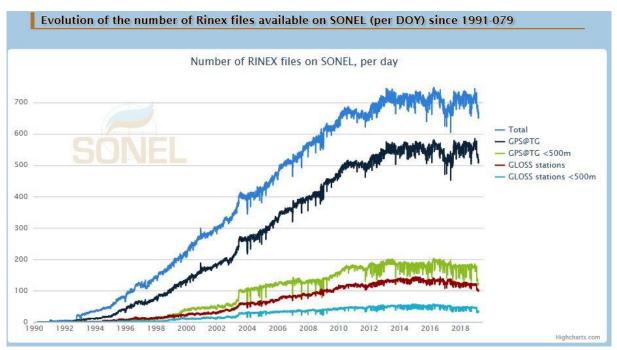


Figure 2: Evolution of the number of daily observation files (active GNSS stations). Online version at: http://www.sonel.org/-GPS-.html

2. GLOSS Core Network status overview

According to the latest version of the GLOSS station handbook (https://www.glosssealevel.org/gloss-station-handbook), the GLOSS core network comprises 290 tide gauge sites. Figure 3 shows that **219 of these stations are nearby one or more GNSS stations**. The 71 tide gauges for which no GNSS station has been found in the vicinity are in white on Figure 3. For 21 stations, a GNSS station has been identified but the data are not available (in blue on Figure 3, see also Table 1) in SONEL yet. This situation is primarily due to the restricted data policy of the station owner.



Figure 3: Status of the GLOSS tide gauge network with a GNSS station nearby. Online version at: http://www.sonel.org/-GLOSS,81-.html

GLOSS tide gauge	Country	GNSS acronym		
Fremantle	Australia	FMTL		
Townsville	Australia	TCC1		
Chittagong	Bangladesh	Unknown		
Prince Rupert	Canada	BCPR		
Xiamen	China	Unknown		
Godthab	Denmark/Greenland	NUUK		
La Libertad	Ecuador	SALN, SEEC		
Nuku-Hiva	France (French Polynesia)	Unknown		
Takoradi	Ghana	TKTG, TADI		
Cochin	India	Unknown		
Chennai / Madras	India	Unknown		
Marmagao	India	Unknown		
Minicoy	India	Unknown		
Vishakhapatnam	India	VISA		
Ambon	Indonesia	САМВ		
Waikelo	Indonesia	WAIK		
Malin head	Ireland	Unknown		
Legaspi	Philippines	PLEG		
Davao Gulf	Philippines	PDAV		
Pusan	Republic of Korea	PUSW		
Walvis Bay	Namibia	WBTA		

 Table 1: GLOSS stations (21) for which a continuous GNSS station has been identified nearby

 but its data are currently not available

It is worth reminding here that beyond the formal commitment to the GLOSS program (and hence the requirement for a free data policy of the tide gauge and GNSS data in line with the IOC/UNESCO Oceanographic Data Exchange Policy), there is a clear interest to distribute the GNSS measurements freely. Indeed, deriving geocentric vertical velocities from GNSS measurements at the sub-millimeter per year level over a decade remains a challenge in geodesy. Making the GNSS observations freely available will increase the chances of the data being processed, especially by the groups contributing to the IGS. This will then allow confrontation of the products (position time series and velocities) from different GNSS data analysis strategies, and hopefully will stimulate advances to obtain vertical velocities at tide gauges that are robust and reliable.

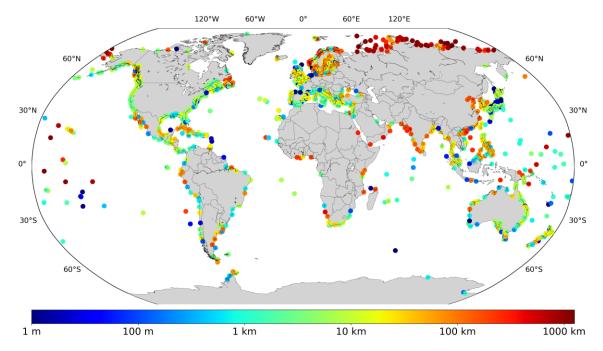
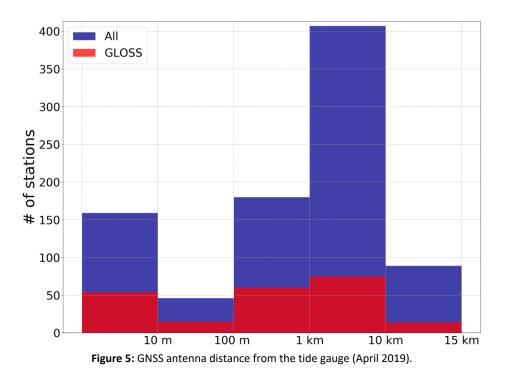


Figure 4: Distance of a tide gauge in the PSMSL (RLR category; https://www.psmsl.org/data/obtaining/) to the nearest GNSS antenna known at the Nevada Geodetic Laboratory (http://geodesy.unr.edu/NGLStationPages/GlobalStationList).

Figure 4 and Figure 5 highlight the information on distance between the tide gauge and the closest GNSS antenna. This information is important as the likelihood of leveling decreases with distance (resources, expertise...), and thus raises the question of usefulness of a distant GNSS antenna to monitor the actual vertical land movement at the tide gauge. This issue was first discussed by Bevis *et al.* (2002), and most recently by Gill *et al.* (2015). As highlighted by Gill *et al.* (2015), **the leveling error can potentially become a significant part of the total error budget at distances longer than 1000 m**. Thus, stations distant more than one kilometer should not be considered as "co-located" in the practical sense, unless there is evidence of local relative stability. For the **130** GLOSS tide gauges with a GNSS antenna less than 1000 m distance, **69** are within 100 m.

Appendix 1 provides a list of the GLOSS Core Network sites with some relevant information on the data availability related to the GNSS stations nearby, and the leveling connections of the GNSS antenna and tide gauge benchmarks. Section 3.1 provides further details on the leveling connections.



The distribution of the number of GNSS stations against their record length or against a minimum record length are shown in Figure 6 and Figure 7, respectively. The record length is calculated as the difference between the last and the first data file available, ignoring gaps. The information on large data gaps is stored and available on the SONEL website. The GNSS record length is a critical factor in order to derive an accurate vertical velocity. According to Santamaría-Gómez and Mémin (2015) **a minimum record length of a decade** (without gaps) is required in certain tropical areas to mitigate the impact of interannual land deformation in the secular vertical velocity estimates. As an obvious consequence, it is highly recommended **to install a permanent GNSS station at the tide gauge as soon as possible**, and **to change the GNSS equipment only when it is strictly necessary** (to avoid interruption and offsets in the time series that can bias the velocity estimate).

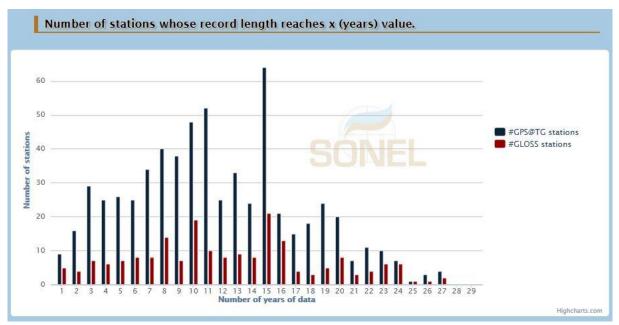


Figure 6: Number of stations whose record length reaches a given number X of years (April 2019).

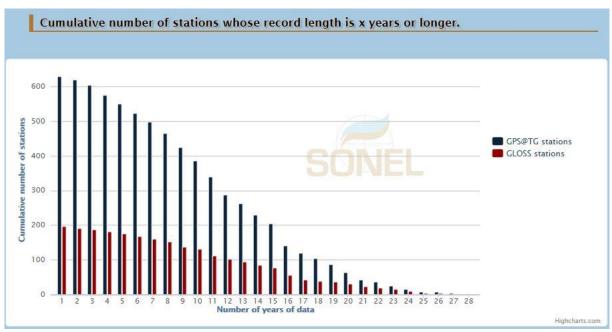


Figure 7: Cumulative number of stations whose record length is X years or longer (April 2019).

II- Data access tools and products

1. General

SONEL strives to provide user-friendly access to its data holdings by developing web-based interfaces such as clickable maps (e.g., Figure 1). For the last couple of years, the maps have given information on which GNSS stations are near a tide gauge, its activity status, and data availability. Some display options on the subset of stations can be chosen on the panel just below the map (checkboxes). For instance, what data is retrieved from a specific data center, or whether the station belongs to a particular network or program? The selection options could be further developed upon request, if the users express a particular interest.

The station symbols on the maps are usually clickable to show basic details such as name, latitude, longitude, and a link that leads the user to a full page of station details. For each station, one can learn whether SONEL has collected data files of observations, what is the first and latest observation available on SONEL, but also one can display a detailed calendar table to see and retrieve the daily file of observations in RINEX format by simply clicking on a specific day on the calendar table. The user can also find what tide gauge is nearby, and if there are other tide gauges nearby or GNSS stations, in which case a link is available to access the co-located station information web-page. If leveling data are available between the GNSS antenna and the tide gauge, a link to that information is available as well.

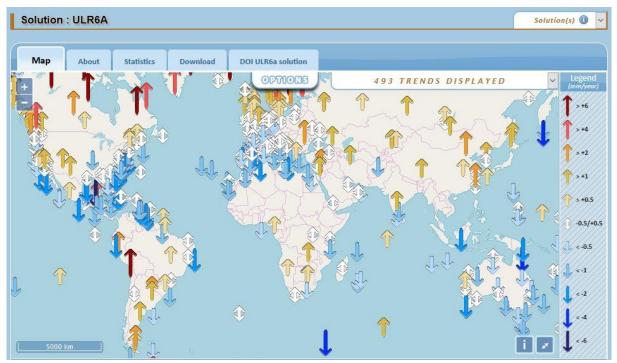
In addition, if the observations of that station were processed by at least one analysis center contributing a 'GNSS solution' to SONEL, the GNSS position time series can be viewed and downloaded as an ASCII file to facilitate users studies. The SONEL team has also been working on extending the web-based clickable maps to enable a comprehensive view and a simple access to some relevant products such as the GNSS vertical velocities. More interestingly, SONEL also proposes demonstrative products to illustrate some applications of its data such as: (i) the combined linear trends from the GNSS and the tide gauge records (relative versus geocentric sea level trends), (ii) the combined linear trends from the tide gauge and satellite altimetry data (an unorthodox method of

estimating vertical land motion). Both demonstrative products were achieved through stimulating and productive cooperation between the SONEL and the PSMSL teams or between the SONEL and the University of Balearic Islands, respectively. The SONEL report of 2015 to the GLOSS group of experts described the first product, whereas the second was described in the 2017 report.

2. GNSS solutions

To start with, it may be helpful to clarify what is meant here by a 'GNSS solution'. A GNSS solution consists of the average station position and velocity for each of the stations analyzed. Note that the station average position and velocity are valid primarily over the input observation time span of the station. The GNSS solution also comprises the 'residual' position time series, typically at weekly or daily time sampling since the last IGS reprocessing campaign. The term 'residual' refers to the difference between the daily station positions and the predictions from the adjusted linear model. This model may include parameters such as offsets, in which case their values are estimated in the same adjustment run. Each GNSS solution is expressed in a specific geocentric reference frame (the most precise and stable at the moment of the solution release).

SONEL database was designed to handle several types of GNSS solutions. Firstly, it can cope with solutions from different analysis centers. This is an interesting feature which enables the user to appraise the level of agreement in the vertical velocities from the various analysis centers at a given station. It provides some additional reliability, beyond the formal uncertainties from an individual analysis center solution. Secondly, SONEL can also handle multiple solutions from a single analysis center. For instance, it may be interesting to update a solution by incorporating new data or new models and corrections (reprocessing), as long as these comply with the IGS-agreed international standards (see http://acc.igs.org/reprocess.html).



a) Global comprehensive view

Figure 8: GNSS vertical velocities from the ULR6 GNSS solution, displayed on a web-based clickable map. Online version at: http://www.sonel.org/-Vertical-land-movement-estimate-.html

Figure 8 shows the GNSS solution webpage: http://www.sonel.org/-Vertical-land-movementestimate-.html, which displays a clickable map with the GNSS vertical velocities of a given 'GNSS solution' (here, as an example, it displays the ULR6 solution). The upward arrows indicate land uplift, whereas the downward arrows indicate subsidence. Double-end arrows indicate velocities within -0.5 to +0.5 mm/year. The arrows are clickable to obtain a small popup window with the station name, its vertical velocity, the associated time span, data completeness, and a link to the station web-page with full information on the station and its 'GNSS solutions' (see next section).

The detailed description of a given 'GNSS solution' is split into "tabs" to reduce the amount of information displayed in a single web-page. The default-selected tab corresponds to the vertical velocity map of the network of stations processed for which a robust vertical velocity has been estimated. The tab called "About" gives technical details on how the solution was processed (main features of the analysis strategy) and in which geocentric reference frame the solution is expressed. Another tab called "Statistics" provides common statistics and graphs for the solution. Finally, the tab called **"Download" gives comprehensive access to download the GNSS solution files** (table of all the vertical velocities that were estimated, station position time series files assembled in a .zip file, global solution file in SINEX format, table of estimated discontinuities, etc.).

As mentioned previously, SONEL database was devised to handle other GNSS analysis center solutions than the ULR ones, including also DORIS solutions, provided the groups are making them available to SONEL (Section III.1).

b) Local specific view (concerning a particular station)

The 'GNSS solution' for a specific station can be accessed either through the aforementioned 'GNSS solution' map (Figure 8) by clicking on an arrow symbol, or through the GNSS general information map presented in Section II.1, which describes what stations are available in SONEL (e.g., Figure 1). Note that a GNSS station webpage can also be accessed directly by using the GNSS acronym in the "Search" facility on the left-hand panel that is available from any page on the SONEL website.

Whenever a 'GNSS solution' is available for a given station, the individual station webpage will show a "GPS position time series" block of information that otherwise will not appear. This block displays the (residual) position time series, but it has been improved to provide web-based tools that support the analysis of the results (Figure 9). Firstly, the general information was completed by adding the reference frame, ellipsoid, average station position and velocity (left-hand side; Figure 9). Secondly, the graphs are dynamic, which means that the vertical scale can be adjusted (+/- buttons) and the information on a point of the curve under the cursor (residual, epoch) can be displayed.

In addition, the trend was added back to the residual position time series (default display). However, the user can choose to remove this trend through a checkbox. The annual signal and the estimated position offsets can be added back for an overall analysis, for instance, to assess the linearity or the quality of the results. The horizontal components of the positioning are also available. They can provide information on problems that have occurred at the station. The vertical dashed bars on the graphs point to the epochs when a position or velocity discontinuity was identified, and estimated. These discontinuities are detailed on the left-hand side of the graph. Finally, the "Download" button below the graph allows downloading the (residual) position time series corresponding to the user's view of the graph (default, or de-trended or whatever choices were selected).

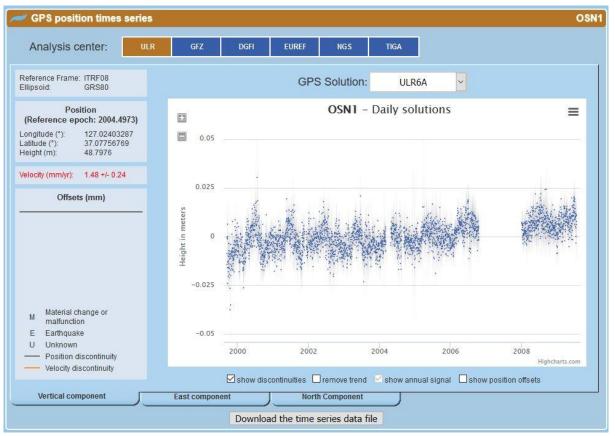


Figure 9: An example of 'GNSS solution' (ULR6A solution) for the OSN1 station (Osan, Republic of Korea). Online version at: https://www.sonel.org/spip.php?page=gps&idStation=2490

III-Work in progress and perspectives

1. Other vertical velocity solutions (TIGA, IGS, DORIS...)

SONEL has been developing its infrastructure **to cope with different GNSS solutions**, that is, updated solutions from a given analysis center, but also solutions from other groups within the GNSS area or from other data analysis strategies. That said, only state-of-the art solutions at the time of submission will be considered; the minimum standard being the adoption of the latest IGS-agreed models and corrections (http://acc.igs.org/reprocess.html). Figure 9 illustrates how the user may choose a particular solution (the analysis centers displayed on the top panel as tabs are tentative, and only serve as an example at this stage). This perspective has progressed since the last report, and should soon be active with solutions from the Nevada Geodetic Laboratory (contact with G. Blewitt and C. Kreemer) and the French geographic institute (contact with B. Garayt and S. Nahmani).

DORIS solutions are still envisaged from a first contact in 2016 with the CLS group at the OSTST meeting. However, that group needs still to fix the issue of reference frame alignment.

Regarding the approach of combining tide gauge and satellite altimetry data (Gravelle *et al.* 2017; Wöppelmann & Marcos 2016), it is not clear yet whether the users find the demonstration product really useful, for instance, to supplement estimates of vertical land motion where there are still no GNSS stations and solutions, or to check the level of agreement between this approach and the GNSS solutions. If it proves useful, SONEL will consider updating the product on a yearly basis to extend the time series. Satellite altimeter products from other groups than AVISO will then be explored.

2. Tide gauge to GNSS antenna local connections (leveling data)

For applications such as worldwide vertical datum unification in hydrography or geodesy, or studies of the mean dynamics topography, the geodetic connection between the GNSS antenna reference point and the tide gauge benchmark is crucial (Woodworth *et al.* 2015; 2017). Of course, this connection is also important for studies of long term trends in sea levels, even though one can make the (questionable) assumption of local stability when the data (connection) is missing. In any of the above case studies, the leveling data between the tide gauge datum and the GNSS antenna reference point appears crucial, and making this leveling data available is an important requirement for GLOSS Core Network stations (IOC, 2012).



Figure 10: Status of the leveling data at tide gauges stored in SONEL. Online version at: http://www.sonel.org/-Stability-of-the-datums-.html

In this context, SONEL attempts to gather all the available geodetic connections (mostly leveling results) for the tide gauges and integrate those into its database (Figure 10). A major issue associated with this activity is the access and analysis of reports from leveling campaigns, focused on linking the tide gauge data reference level (for instance the RLR when the data are retrieved from the PSMSL) and the GNSS antenna reference point. Many of these reports are observing tide gauge benchmarks that are not reported in the PSMSL diagrams showing where the tide gauge reference level or RLR is, or their identification (name) is not the same, making it difficult or impossible to guess if they are actually the same. The activity includes the connections with GNSS antennas but also with nearby DORIS stations (about 30 DORIS stations are nearby a tide gauge; details can be obtained at: https://www.sonel.org/-Doris-.html).

Figure 10 shows that as many as (or as few as) 152 tide gauges have a geodetic link to a GNSS station on SONEL, and 23 tide gauges with a DORIS station. A status of these geodetic connections between tide gauges and GNSS stations available in SONEL was published by Woodworth *et al.* (2017), highlighting the varied issues associated with this activity.

Among the 170 (152+18 in Figure 10) tide gauges with a geodetic connection to a permanent GNSS station, 73 belong to the GLOSS Core Network. These connections are thus currently available at SONEL for only 25% of the GLOSS tide gauges.

Figure 11 shows that at present the geodetic connection is unknown in SONEL for 77 GLOSS Core Network tide gauges that lie within 1 km distance from a GNSS station. A 1 km distance is a reasonable distance for a leveling campaign, meaning that the potential for a substantial improvement is within reach if tide gauge operators consider including the leveling of the GNSS antenna in their next (annual) leveling control.

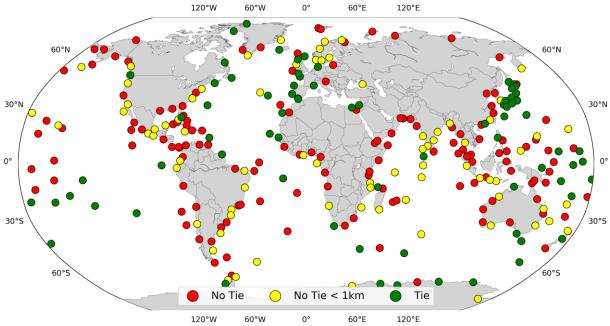


Figure 11: Geodetic connections available in SONEL for the GLOSS Core Network. In yellow are highlighted those for which this is missing, but the tide gauge is within 1 km from the nearest GNSS station; thus, the potential for a substantial improvement is within reach if tide gauge operators include the GNSS antenna in their next leveling control.

3. Summary of major limitations today

The major limitation for the applications aimed at in GLOSS is certainly the availability of continuous GNSS station at tide gauges (long term trends in sea levels, confrontation with satellite altimetry, vertical datum unification). Only 24% (69 out of 290) are co-located at a GLOSS station (at or within 100 m). Progress is still needed in this respect to fulfill the GLOSS Implementation Plan (IOC, 2012) requirements for a core network station.

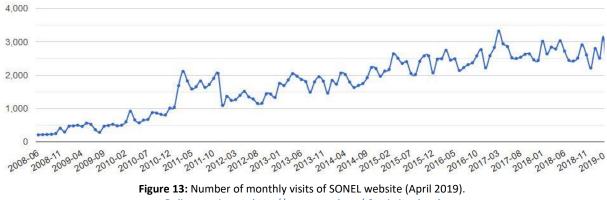
Another important issue is the free and open access to the GNSS observations following the international guidelines of the IGS, that is, daily files in RINEX format with a 30s sampling.

Equally important is the need for updating on any equipment changes or any change of its immediate environment (metadata) as soon as possible by updating the GNSS station log-sheet, which should follow the IGS standards, and to inform the SONEL network station manager, Ing. Elizabeth Prouteau (elizabeth.prouteau@univ-lr.fr).

Last but not least, whenever the GNSS station is not directly installed on the same ground or structure (roof) as the tide gauge, it is important to undertake repeated leveling connections for at least five years to assess that the GNSS antenna and the tide gauge are not experiencing differential land motions at 0.1-0.2 millimeter per year level. In any case, the availability of the initial leveling connection is critical for satellite altimetry comparisons or calibrations, and vertical reference unifications on land (height systems) and sea (chart datums).

Users statistics and feedbacks IV-

Accurate usage statistics of the SONEL data service are extremely difficult to establish, in particular for the FTP anonymous servers, which is the case for most data in SONEL. A rough idea can be obtained, however, from the number of files downloaded in March 2019: as many as 326,000 files were downloaded from the SONEL FTP server. Another idea of the importance of the service can be appraised from the number of visits of the SONEL website per month (Figure 13). Figure 13 shows a steady and significant increase of this number of visits until 2016, then the number stabilizes at about 2800 visits per month.



Online version at: http://www.sonel.org/-Statistics-.html

It is even more difficult to appraise the number of scientific studies that use data from SONEL. The number of articles published in peer review journals that explicitly acknowledge SONEL data center (as far as the SONEL team was informed) is shown in Figure 14. It certainly represents the tip of the iceberg. From the titles of the articles (See also: http://www.sonel.org/-Users-feedback-.html), it appears that in addition to sea level, the areas of tectonics, atmosphere, physics and geodesy also benefit from SONEL service.

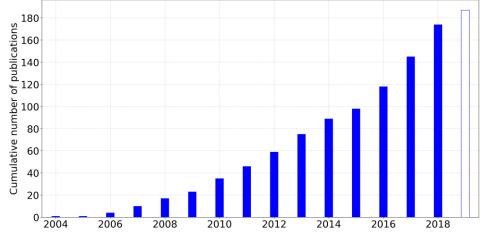


Figure 14: Cumulative number of scientific publications using SONEL data as far as the SONEL team knows (April 2019).

Acknowledgements

SONEL is funded by the University of La Rochelle, the INSU/CNRS (SNO program) and the French research ministry (IR infrastructures). The service is based on the many institutions worldwide making GNSS data and products public and freely available. SONEL strives to acknowledge these contributions by including the names of these institutions and their contacts at the individual station web-pages on SONEL portal. In addition, there is a **dedicated webpage on the GNSS data providers** at: http://www.sonel.org/-Data-providers-125-.html. Don't hesitate to contact us to complete our database in this respect (Email: sonel@sonel.org).

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APPENDIX 1

SLOSS ID	-1.1	-					
	Tide gauge name	Country	Distance TG-GNSS (m)	GNSS acronym	GNSS data	Leveling	
<u>262</u>	Lobito	Angola	/	/	/	/	GNSS decommissioned
<u>192</u>	Mar del Plata	Argentina	7	MPLA	Y	N	No GNSS data for a long time (> 8 years)
	Mar del Plata	Argentina	5	MPL2	Y	N	GNSS exists (identified) but no data on SONEL
<u>191</u>	Puerto Madryn	Argentina	59983	RWSN	Y	N	No GNSS identified near this tide gauge
190	Puerto Deseado	Argentina	14	PDES	Y	N	No leveling in SONEL, but TG-GNSS distance < 1000 m
	Puerto Deseado	Argentina	1189	PDE2	Y	N	-
	Puerto Deseado	Argentina	1191	PDE3	Y	N	
	Bahia Esperanza	Argentina	2	SPRZ	Ŷ	N	
	Ushuaia	Argentina	3986	AUTF	Ŷ	N	
_	Thevenard	-					
		Australia	35161	CEDU	Y	N	4
	Casey	Australia	2	CAS1	Y	Y	
_	Davis	Australia	440	DAV1	Y	N	
_	Lord Howe Is.	Australia	519	LORD	Y	Ν	
	Lord Howe Is.	Australia	2758	LDHI	Y	N	
<u>130</u>	Macquarie Is.	Australia	470	MAC1	Y	Y	
124	Norfolk Is.	Australia	2195	NORF	Y	N	
<u>62</u>	Darwin	Australia	7266	DARM	Y	N	
	Darwin	Australia	636	00NA	Y	N	
	Darwin	Australia	2955	LKYA	Y	Y	
	Darwin	Australia	12369	DWMI	Y	N	
	Darwin	Australia	13493	02NA	Ŷ	N	-
	Booby Is.	Australia	13455	0211A	/	/	
			22200	7	/	/	
	Townsville	Australia	23390	TOW2	Y	N	4
	Townsville	Australia	6824	TCC1	N	Ν	
	Burnett Heads (Bundaberg)	Australia	16893	BNDY	Y	N	4
	Brisbane (West Inner Bar)	Australia	20050	CLEV	Y	N	1
	Brisbane (West Inner Bar)	Australia	18490	WOOL	Y	Ν	
<u>57</u>	Sydney, Fort Denison	Australia	10775	SYDN	Y	N	
	Sydney, Fort Denison	Australia	66	FTDN	N	N	
	Sydney, Fort Denison	Australia	4245	CHIP	N	N	1
	Sydney, Fort Denison	Australia	7036	UNSW	N	N	1
		Australia	432	SPBY	Y	Y	1
	Spring Bay		2		Y Y	Y Y	4
	Portland	Australia		PTLD			4
	Esperance	Australia	374	ESPA	Y	Y	
<u>53</u>	Fremantle	Australia	32018	PERT	Y	N	
	Fremantle	Australia	1653	FMTL	N	N	
52	Carnarvon	Australia	/	/	/	/	
51	Port Hedland	Australia	26952	PTHL	Y	N	
	Christmas Is.	Australia	3430	XMIS	Y	N	
	Cocos Is. (Keeling)	Australia	10172	COCO	Y	Ν	
_	Broome	Australia	950	BRO1	Ŷ	N	
	Mawson		560	MAW1	Y	Y	
		Australia					
	Settlement Point	Bahamas	5	FREE	Y	N	
	Settlement Point	Bahamas	3411	BHMA	Y Y	N N	
					<u>ү</u> /		
<u>12</u>	Settlement Point	Bahamas					
<u>12</u> 36	Settlement Point Exuma	Bahamas Bahamas		BHMA /	<u>ү</u> /	N /	
<u>12</u> <u>36</u> <u>120</u>	Settlement Point Exuma Chittagong Malakal	Bahamas Bahamas Bangladesh Belau	3411 / 3076	BHMA / ??? PALA	Y / N Y	N / N N	
<u>12</u> <u>36</u> <u>120</u>	Settlement Point Exuma Chittagong Malakal Malakal	Bahamas Bahamas Bangladesh Belau Belau	3411 /	BHMA / ???	Y / N	N / N	
<u>12</u> <u>36</u> <u>120</u> <u>352</u>	Settlement Point Exuma Chittagong Malakal Malakal Porto De Macaé	Bahamas Bahamas Bangladesh Belau Belau Brazil	3411 / 3076 7 /	BHMA / ??? PALA PALR /	Y / N Y Y /	N / N N /	
<u>12</u> <u>36</u> <u>120</u> <u>352</u> <u>351</u>	Settlement Point Exuma Chittagong Malakal Malakal Porto De Macaé Porto De Imbituba	Bahamas Bahamas Bangladesh Belau Belau Brazil Brazil	3411 / 3076 7 / 670	BHMA / ??? PALA PALR / IMBT	Y / N Y Y / Y	N / N N / / N	
<u>12</u> <u>36</u> <u>120</u> <u>352</u> <u>351</u> <u>336</u>	Settlement Point Exuma Chittagong Malakal Malakal Porto De Macaé Porto De Imbituba Fortaleza	Bahamas Bahamas Bangladesh Belau Belau Brazil Brazil Brazil	3411 / 3076 7 / 670 19006	BHMA / ??? PALA PALR / IMBT FORT	Y / N Y Y / Y Y	N / N N / / N N	
<u>12</u> <u>36</u> <u>120</u> <u>352</u> <u>351</u> <u>336</u>	Settlement Point Exuma Chittagong Malakal Malakal Porto De Macaé Porto De Imbituba Fortaleza Fortaleza	Bahamas Bahamas Bangladesh Belau Belau Brazil Brazil Brazil Brazil	3411 / 3076 7 / 670 19006 19009	BHMA / ??? PALA PALR / IMBT FORT BRFT	Y / N Y Y / Y Y Y	N / N N / N N N	
<u>12</u> <u>36</u> <u>120</u> <u>352</u> <u>351</u> <u>336</u>	Settlement Point Exuma Chittagong Malakal Malakal Porto De Macaé Porto De Imbituba Fortaleza Fortaleza Fortaleza	Bahamas Bahamas Bangladesh Belau Belau Brazil Brazil Brazil Brazil Brazil	3411 / 3076 7 / 670 19006 19009 597	BHMA / ??? PALA PALR / IMBT FORT BRFT CEFT	Y N Y Y Y Y Y Y Y	N / N N / N N N N	
<u>12</u> <u>36</u> <u>120</u> <u>352</u> <u>351</u> <u>336</u> <u>334</u>	Settlement Point Exuma Chittagong Malakal Malakal Porto De Macaé Porto De Imbituba Fortaleza Fortaleza Fortaleza Salvador	Bahamas Bahamas Bangladesh Belau Brazil Brazil Brazil Brazil Brazil Brazil	3411 / 3076 7 / 670 19006 19009 597 157	BHMA / ??? PALA PALR / IMBT FORT BRFT	Y N Y Y Y Y Y Y Y Y	N / N N / N N / N N N N N N N N N N N N	
<u>12</u> <u>36</u> <u>120</u> <u>352</u> <u>351</u> <u>336</u> <u>334</u>	Settlement Point Exuma Chittagong Malakal Malakal Porto De Macaé Porto De Imbituba Fortaleza Fortaleza Fortaleza	Bahamas Bahamas Bangladesh Belau Belau Brazil Brazil Brazil Brazil Brazil	3411 / 3076 7 / 670 19006 19009 597	BHMA / ??? PALA PALR / IMBT FORT BRFT CEFT	Y N Y Y Y Y Y Y Y Y Y	N / N N / N N N N	
<u>12</u> <u>36</u> <u>120</u> <u>352</u> <u>351</u> <u>336</u> <u>334</u>	Settlement Point Exuma Chittagong Malakal Malakal Porto De Macaé Porto De Imbituba Fortaleza Fortaleza Fortaleza Salvador	Bahamas Bahamas Bangladesh Belau Brazil Brazil Brazil Brazil Brazil Brazil	3411 / 3076 7 / 670 19006 19009 597 157	BHMA / ??? PALA PALR / IMBT FORT BRFT CEFT SSA1	Y N Y Y Y Y Y Y Y Y	N / N N / N N / N N N N N N N N N N N N	
<u>12</u> <u>36</u> <u>120</u> <u>352</u> <u>351</u> <u>336</u> <u>334</u>	Settlement Point Exuma Chittagong Malakal Malakal Porto De Macaé Porto De Imbituba Fortaleza Fortaleza Fortaleza Salvador Salvador	Bahamas Bahamas Bangladesh Belau Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil	3411 / 3076 7 / 670 19006 19009 597 157 9994	BHMA / ??? PALA PALR / IMBT FORT BRFT CEFT SSA1 SAVO	Y N Y Y Y Y Y Y Y Y Y	N / N N / N / N N N N N N N N N N N N N	
<u>12</u> <u>36</u> <u>120</u> <u>352</u> <u>351</u> <u>336</u> <u>334</u> <u>265</u>	Settlement Point Exuma Chittagong Malakal Malakal Porto De Macaé Porto De Imbituba Fortaleza Fortaleza Fortaleza Salvador Salvador Salvador	Bahamas Bahamas Bangladesh Belau Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil	3411 / 3076 7 / 670 19006 19009 597 157 9994	BHMA / ??? PALA PALR / IMBT FORT BRFT CEFT SSA1 SAVO	Y N Y Y Y Y Y Y Y Y Y	N / N N / N / N N N N N N N N N N N N N	
12 36 120 352 351 336 334 334 265 200	Settlement Point Exuma Chittagong Malakal Malakal Porto De Macaé Porto De Imbituba Fortaleza Fortaleza Fortaleza Salvador Salvador Salvador Trindade Is. Ponta da Madeira	Bahamas Bahamas Bangladesh Belau Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil	3411 / 3076 7 / 670 19006 19009 597 157 9994 3902 /	BHMA / ??? PALA PALR / IMBT FORT BRFT CEFT SSA1 SAVO SALV /	Y N Y Y Y Y Y Y Y Y Y Y Y	N / N N / N N / N N N N N N N N N N N N	
12 36 120 352 351 336 334 334 265 200 199	Settlement Point Exuma Chittagong Malakal Malakal Porto De Macaé Porto De Imbituba Fortaleza Fortaleza Fortaleza Salvador Salvador Salvador Salvador Salvador Salvador Stalvador Stalvador Stalvador Stalvador	Bahamas Bahamas Bangladesh Belau Belau Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil	3411 / 3076 7 / 670 19006 19009 597 157 9994 3902 /	BHMA / ??? PALA PALR / IMBT FORT BRFT CEFT SSA1 SAVO SALV /	Y N Y Y Y Y Y Y Y Y Y Y Y	N / N N / N N / N N N N N N N N N N N N	
12 36 120 352 351 336 334 265 200 199 198	Settlement Point Exuma Chittagong Malakal Malakal Porto De Macaé Porto De Imbituba Fortaleza Fortaleza Fortaleza Salvador Salvador Salvador Trindade Is. Ponta da Madeira St Peter & St Paul Rocks Fernando de Noronha	Bahamas Bahamas Bangladesh Belau Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil	3411 / 3076 7 / 670 19006 19009 597 157 9994 3902 / 18523 / / /	BHMA / ??? PALA PALR / IMBT FORT BRFT CEFT SSA1 SAVO SALV / SALV / SALU /	Y N Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	N / N N / N N / N N N N N N N N N N N N	
12 36 120 352 351 336 334 265 200 199 198 195	Settlement Point Exuma Chittagong Malakal Malakal Porto De Macaé Porto De Imbituba Fortaleza Fortaleza Fortaleza Salvador Salvador Salvador Trindade Is. Ponta da Madeira St Peter & St Paul Rocks Fernando de Noronha Rio de Janeiro - I.Fiscal	Bahamas Bahamas Bangladesh Belau Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil	3411 / 3076 7 / 670 19006 19009 597 157 9994 3902 / 18523 / / 5993	BHMA / ??? PALA PALR / IMBT FORT BRFT CEFT SSA1 SAVO SALV / SALV / SALU / ONRJ	Y N Y Y Y Y Y Y Y Y Y Y Y Y Y	N / N N / N N N N N N N N N N N N N N N	
12 36 120 352 351 336 334 334 265 200 199 198 195 194	Settlement Point Exuma Chittagong Malakal Malakal Porto De Macaé Porto De Imbituba Fortaleza Fortaleza Salvador Salvador Salvador Salvador Trindade Is. Ponta da Madeira St Peter & St Paul Rocks Fernando de Noronha Rio de Janeiro - I.Fiscal Cananeia	Bahamas Bahamas Bangladesh Belau Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil	3411 / 3076 7 / 670 19006 19009 597 157 9994 3902 / 18523 / / 5993 10	BHMA / ??? PALA PALR / IMBT FORT BRFT CEFT SSA1 SAVO SALV / SALV / SALU /	Y N Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	N / N N / N N / N N N N N N N N N N N N	
12 36 120 351 351 336 334 265 200 199 198 194 193	Settlement Point Exuma Chittagong Malakal Malakal Porto De Macaé Porto De Imbituba Fortaleza Fortaleza Salvador Salvador Salvador Salvador Salvador Salvador Salvador St Peter & St Paul Rocks Fernando de Noronha Rio de Janeiro - I.Fiscal Cananeia Porto de Rio Grande	Bahamas Bahamas Bangladesh Belau Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil	3411 / 3076 7 / 670 19006 19009 597 157 9994 3902 / 18523 / / 5993	BHMA / ??? PALA PALR / IMBT FORT BRFT CEFT SSA1 SAVO SALV / SALV / SALU / ONRJ	Y N Y Y Y Y Y Y Y Y Y Y Y Y Y	N / N N / N N N N N N N N N N N N N N N	
12 36 120 351 351 336 334 265 200 199 198 194 193	Settlement Point Exuma Chittagong Malakal Malakal Porto De Macaé Porto De Imbituba Fortaleza Fortaleza Salvador Salvador Salvador Salvador Trindade Is. Ponta da Madeira St Peter & St Paul Rocks Fernando de Noronha Rio de Janeiro - I.Fiscal Cananeia	Bahamas Bahamas Bangladesh Belau Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil	3411 / 3076 7 / 670 19006 19009 597 157 9994 3902 / 18523 / / 5993 10	BHMA / ??? PALA PALR / IMBT FORT BRFT CEFT SSA1 SAVO SALV / SALV / SALU / ONRJ	Y N Y Y Y Y Y Y Y Y Y Y Y Y Y	N / N N / N N N N N N N N N N N N N N N	
12 36 120 351 351 336 334 265 200 198 195 194 193 350	Settlement Point Exuma Chittagong Malakal Malakal Porto De Macaé Porto De Imbituba Fortaleza Fortaleza Salvador Salvador Salvador Salvador Salvador Salvador Salvador St Peter & St Paul Rocks Fernando de Noronha Rio de Janeiro - I.Fiscal Cananeia Porto de Rio Grande	Bahamas Bahamas Bangladesh Belau Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil	3411 / 3076 7 / 670 19006 19009 597 157 9994 3902 / 18523 / / 5993 10	BHMA / ??? PALA PALR / IMBT FORT BRFT CEFT SSA1 SAVO SALV / SALV / SALU / ONRJ	Y N Y Y Y Y Y Y Y Y Y Y Y Y Y	N / N N / N N N N N N N N N N N N N N N	
12 36 120 351 336 336 334 265 200 199 198 194 193 350 333	Settlement Point Exuma Chittagong Malakal Malakal Porto De Macaé Porto De Imbituba Fortaleza Fortaleza Fortaleza Salvador Salvador Salvador Salvador Salvador Salvador Salvador Salvador Salvador Salvador Salvador Salvador Salvador Salvador Salvador Salvador Salvador Salvador Salvador Solvador Salvador Salvador Salvador Solvador Salvador Solvador Salvador Salvador Salvador Salvador Salvador Salvador Salvador Salvador Salvador Salvador Salvador Salvador Salvador Salvador Solvador Solvador Solvador Solvador Solvador Solvador Salvador Solvado	Bahamas Bahamas Bangladesh Belau Brazil	3411 / 3076 7 670 19006 19009 597 157 9994 3902 / 18523 / / 5993 10 / / /	BHMA / ??? PALA PALR / IMBT FORT BRFT CEFT SSA1 SAVO SALV / SALV / SALU / NEIA / / / / / /	Y N Y	N / N N / N N N N N N N N N N N N / N N / N N / N N / N N / N N / N N / N N / N N / N N / N N / N N / N N / N N / N N / N N / N / N N / N / N / N / N / N / N / N / N / N / N / / N / N / / N / / N / / N / / / N / / / / N /	
12 36 120 352 351 336 334 334 265 200 199 195 195 195 350 333 224	Settlement Point Exuma Chittagong Malakal Malakal Porto De Macaé Porto De Imbituba Fortaleza Fortaleza Fortaleza Salvador Salvador Salvador Salvador Trindade Is. Ponta da Madeira St Peter & St Paul Rocks Fernando de Noronha Rio de Janeiro - I.Fiscal Cananeia Porto de Rio Grande Port Sonara Alert Nain	Bahamas Bahamas Bangladesh Belau Brazil Braz	3411 / 3076 7 / 670 19006 19009 597 157 9994 3902 / 18523 / 18523 / 18523 / 10 / 10 10 10 1900	BHMA / ??? PALA PALR / IMBT FORT BRFT CEFT SSA1 SAVO SALV / SALU / SALU / ONRJ NEIA / / ALRT NAIN	Y N Y	N / N N / N N N N N N N N N N N / N N / N N / N N / N N / N N / / N / N / / N / / N / / / N /	
12 36 120 352 351 336 334 265 200 199 198 195 195 195 193 350 333 224 223	Settlement Point Exuma Chittagong Malakal Malakal Porto De Macaé Porto De Imbituba Fortaleza Fortaleza Salvador Salvador Salvador Salvador Salvador Salvador Salvador St Peter & St Paul Rocks Fernando de Noronha Rio de Janeiro - I.Fiscal Cananeia Porto de Rio Grande Port Sonara Alert Nain St John's, Newfoundland	Bahamas Bahamas Bangladesh Belau Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Cameroon Canada Canada	3411 / 3076 7 7 670 19006 19009 597 157 9994 3902 / 18523 / / 18523 / / 5993 10 / 450 730 4988	BHMA / ??? PALA PALR / IMBT FORT BRFT CEFT SSA1 SAVO SALV / SALU / SALU / NEIA / / ALRT NAIN STJO	Y N Y	N / N N / N N N N N N N N N N N N N / N N / N N / N / N / N / N / N / N / N Y Y Y Y	
12 36 120 351 351 336 334 265 200 199 198 195 193 350 333 2224 223	Settlement Point Exuma Chittagong Malakal Malakal Porto De Macaé Porto De Imbituba Fortaleza Fortaleza Salvador	Bahamas Bahamas Bangladesh Belau Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Cameroon Canada Canada Canada	3411 / 3076 7 / 670 19006 19009 597 157 9994 3902 / 18523 / / 18523 / / 18523 / 10 / 10 / 10 1900 1000 1	BHMA / ??? PALA PALR / IMBT FORT BRFT CEFT SSA1 SAVO SALV / SALU / SALU / NEIA / / ALRT NAIN STJO STJ3	Y N Y	N / N N / N N N N N N N N N N N N N N N	
12 36 120 351 351 336 334 265 200 199 198 195 194 193 350 333 2224	Settlement Point Exuma Chittagong Malakal Malakal Porto De Macaé Porto De Imbituba Fortaleza Fortaleza Salvador St John's, Newfoundland Halifax	Bahamas Bahamas Bangladesh Belau Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Cameroon Canada Canada Canada	3411 / 3076 7 / 670 19006 19009 597 157 9994 3902 / 18523 / / 18523 / / 18523 / / 18523 / / 10 / 1900 3002 / 18523 / / 10 3902 / 10 3902 / 10 3902 / 10 3902 / 10 3902 / 10 3902 / 10 3902 / 10 3902 / 10 3902 / 10 3902 / 10 3902 / 10 3902 / 10 3902 / 10 3903 10 3903 10 3903 10 3903 10 3903 10 3903 10 3903 10 3903 10 3903 10 3903 10 3903 10 3903 10 3903 10 3903 10 3903 10 3903 10 3005 10 3005 10 3005 10 10 10 10 10 10 10 10 10 10	BHMA / ??? PALA PALR / IMBT FORT BRFT CEFT SSA1 SAVO SALV / SALU / SALU / NEIA / ALRT NAIN STJO STJ3 HLFX	Y N Y	N / N N N N N N N N N N N N N N N N N N	
12 36 120 351 351 334 265 200 199 195 194 193 350 333 224 222 156	Settlement Point Exuma Chittagong Malakal Malakal Porto De Macaé Porto De Imbituba Fortaleza Fortaleza Fortaleza Salvador St Poto de Rio Grande Port Sonara Alert Nain St John's, Newfoundland Halifax Tofino	Bahamas Bahamas Bangladesh Belau Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Cameroon Canada Canada Canada Canada	3411 / 3076 7 670 19006 19009 597 157 9994 3902 / 18523 / / 18523 / / 5993 10 / 450 730 4988 4990 3100 37005	BHMA / / ??? PALA PALR / IMBT FORT BRFT CEFT SSA1 SAVO SALV / / SALU / / SALU / / ALRT NAIN STJO STJ3 HLFX UCLU	Y N Y	N N N N N N N N N N N N N	
12 36 120 351 351 336 334 265 200 199 198 194 193 350 333 224 222 156	Settlement Point Exuma Chittagong Malakal Malakal Porto De Macaé Porto De Imbituba Fortaleza Fortaleza Salvador St Poter & St Paul Rocks Fernando de Noronha Rio de Janeiro - I.Fiscal Cananeia Porto de Rio Grande Port Sonara Alert Nain St John's, Newfoundland St John's, Newfoundland Halifax Tofino	Bahamas Bahamas Bangladesh Belau Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Cameroon Canada Canada Canada Canada Canada	3411 / 3076 7 670 19006 19006 19009 597 157 9994 3902 / 18523 / / 18523 / / 5993 10 / 5993 10 / 4988 4990 3100 37005 343	BHMA / / ??? PALA PALR / IMBT FORT BRFT CEFT SSA1 SAVO SALV / SALU / / SALU / / ONRJ NEIA / / ALRT NAIN STJ0 STJ3 HLFX UCLU TFN0	Y N Y	N / N N N N N N N N N N N N N N N / N N N / N N / N N / N Y Y Y Y	
12 36 120 351 351 336 334 265 200 199 198 195 194 193 350 333 224 222 156 155	Settlement Point Exuma Chittagong Malakal Malakal Porto De Macaé Porto De Imbituba Fortaleza Fortaleza Fortaleza Salvador Salvado	Bahamas Bahamas Bangladesh Belau Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Cameroon Canada Canada Canada Canada Canada Canada	3411 / 3076 7 670 19006 19009 597 157 9994 3902 / 18523 / 18523 / / 5993 10 / 4988 4990 3100 37005 343 9000	BHMA / / ??? PALA PALR / IMBT FORT BRFT CEFT SSA1 SAVO SALV / SALU / SALU / / SALU / ALRT NAIN STJ0 STJ3 HLFX UCLU TFN0 BCPR	Y N Y	N N N N N N N N N N N N N	
12 36 120 351 351 336 334 265 200 199 198 195 194 193 350 333 224 222 156 155	Settlement Point Exuma Chittagong Malakal Malakal Porto De Macaé Porto De Imbituba Fortaleza Fortaleza Salvador St Poter & St Paul Rocks Fernando de Noronha Rio de Janeiro - I.Fiscal Cananeia Porto de Rio Grande Port Sonara Alert Nain St John's, Newfoundland St John's, Newfoundland Halifax Tofino	Bahamas Bahamas Bangladesh Belau Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Cameroon Canada Canada Canada Canada Canada	3411 / 3076 7 670 19006 19006 19009 597 157 9994 3902 / 18523 / / 18523 / / 5993 10 / 5993 10 / 4988 4990 3100 37005 343	BHMA / / ??? PALA PALR / IMBT FORT BRFT CEFT SSA1 SAVO SALV / SALU / / SALU / / ONRJ NEIA / / ALRT NAIN STJ0 STJ3 HLFX UCLU TFN0	Y N Y	N / N N N N N N N N N N N N N N N / N N N / N N / N N / N Y Y Y Y	
12 36 120 351 336 336 334 265 200 199 198 333 224 223 156 329	Settlement Point Exuma Chittagong Malakal Malakal Porto De Macaé Porto De Imbituba Fortaleza Fortaleza Fortaleza Salvador Salvado	Bahamas Bahamas Bangladesh Belau Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Cameroon Canada Canada Canada Canada Canada Canada	3411 / 3076 7 670 19006 19009 597 157 9994 3902 / 18523 / 18523 / / 5993 10 / 4988 4990 3100 37005 343 9000	BHMA / ??? PALA PALR / IMBT FORT BRFT CEFT SSA1 SAVO SALV / SALU / SALU / ONRJ NEIA / ALRT NAIN STJ0 STJ3 HLFX UCLU TFN0 BCPR	Y N Y	N N N N N N N N N N N N N	
12 36 120 351 351 336 334 265 200 199 198 333 224 223 156 329	Settlement Point Exuma Chittagong Malakal Malakal Porto De Macaé Porto De Imbituba Fortaleza Fortaleza Fortaleza Salvador Salvado	Bahamas Bahamas Bangladesh Belau Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Cameroon Canada Canada Canada Canada Canada Canada Canada Canada Canada Canada Canada	3411 / 3076 7 670 19006 19009 597 157 9994 3902 / 18523 / 18523 / 10 / 5993 10 / 450 730 4988 4990 3100 37005 343 9000 5	BHMA / / ??? PALA PALR / IMBT FORT BRFT CEFT SSA1 SAVO SALV / SALU / / SALU / / ALRT NAIN STJO STJ3 HLFX UCLU TFNO BCPR TGCV	Y N Y	N N N N N N N N N N N N N	
12 36 120 351 351 336 334 265 200 199 195 194 193 350 333 224 223 156 329 155 329 1889	Settlement Point Exuma Chittagong Malakal Malakal Porto De Macaé Porto De Imbituba Fortaleza Fortaleza Fortaleza Salvador Salvador Salvador Salvador Salvador Trindade Is. Ponta da Madeira St Peter & St Paul Rocks Fernando de Noronha Rio de Janeiro - I.Fiscal Cananeia Porto de Rio Grande Porto de Rio Grande Port Sonara Alert Nain St John's, Newfoundland St John's, Newfoundland Halifax Tofino Tofino Tofino Prince Rupert Palmeira Palmeira Captain Prat Base (Antarctica)	Bahamas Bahamas Bangladesh Belau Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Cameroon Canada	3411 / 3076 7 670 19006 19009 597 157 9994 3902 / 18523 / 18523 / 10 / 5993 10 / 450 730 4988 4990 3100 37005 343 9000 5 5 5753	BHMA / / ??? PALA PALR / IMBT FORT BRFT CEFT SSA1 SAVO SALV / SALU / / SALU / / ALRT NAIN STJO STJ3 HLFX UCLU TFNO BCPR TGCV	Y N Y	N N N N N N N N N N N N N	
12 36 120 351 336 336 334 265 200 199 198 193 350 333 224 223 155 329 1889 178	Settlement Point Exuma Chittagong Malakal Malakal Porto De Macaé Porto De Imbituba Fortaleza Fortaleza Fortaleza Salvador Salvador Salvador Salvador Salvador Salvador Salvador Salvador Salvador Salvador Salvador Si Peter & St Paul Rocks Fernando de Noronha Rio de Janeiro - I.Fiscal Cananeia Porto de Rio Grande Porto de Rio Grande Port Sonara Alert Nain St John's, Newfoundland St John's, Newfoundland Halifax Tofino Tofino Prince Rupert Palmeira Palmeira Captain Prat Base (Antarctica) Puerto Montt	Bahamas Bahamas Bangladesh Belau Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Cameroon Canada	3411 / 3076 7 670 19006 19009 597 157 9994 3902 / 18523 / 18523 / 10 / 5993 10 / 450 730 4988 4990 3100 37005 343 9000 5 5 5753	BHMA / / ??? PALA PALR / IMBT FORT BRFT CEFT SSA1 SAVO SALV / SALU / / SALU / / ALRT NAIN STJO STJ3 HLFX UCLU TFNO BCPR TGCV	Y N Y	N N N N N N N N N N N N N	
12 36 120 352 351 336 334 334 265 200 199 198 195 333 224 223 155 329 189 155 329 178 177	Settlement Point Exuma Chittagong Malakal Malakal Porto De Macaé Porto De Imbituba Fortaleza Fortaleza Fortaleza Salvador Salvador Salvador Salvador Salvador Salvador Salvador Salvador Salvador Salvador Salvador Si Peter & St Paul Rocks Fernando de Noronha Rio de Janeiro - I.Fiscal Cananeia Porto de Rio Grande Port Sonara Alert Nain St John's, Newfoundland St John's, Newfoundland St John's, Newfoundland St John's, Newfoundland Halifax Tofino Tofino Prince Rupert Palmeira Palmeira Captain Prat Base (Antarctica) Puerto Montt San Felix	Bahamas Bahamas Bangladesh Belau Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Cameroon Canada	3411 / 3076 7 670 19006 19009 597 157 9994 3902 / 18523 / 18523 / 10 / 5993 10 / 450 730 4988 4990 3100 37005 343 9000 5 5 5753	BHMA / / ??? PALA PALR / IMBT FORT BRFT CEFT SSA1 SAVO SALV / SALU / / SALU / / ALRT NAIN STJO STJ3 HLFX UCLU TFNO BCPR TGCV	Y N Y	N N N N N N N N N N N N N	
12 36 120 352 351 336 334 334 265 200 199 195 195 333 224 223 155 329 155 329 178 177	Settlement Point Exuma Chittagong Malakal Malakal Porto De Macaé Porto De Imbituba Fortaleza Fortaleza Fortaleza Salvador Salvador Salvador Salvador Salvador Salvador Salvador Salvador Salvador Salvador Salvador Si Peter & St Paul Rocks Fernando de Noronha Rio de Janeiro - I.Fiscal Cananeia Porto de Rio Grande Porto de Rio Grande Port Sonara Alert Nain St John's, Newfoundland St John's, Newfoundland Halifax Tofino Tofino Prince Rupert Palmeira Palmeira Captain Prat Base (Antarctica) Puerto Montt	Bahamas Bahamas Bangladesh Belau Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Cameroon Canada	3411 / 3076 7 670 19006 19009 597 157 9994 3902 / 18523 / 18523 / 10 / 5993 10 / 450 730 4988 4990 3100 37005 343 9000 5 5 5753	BHMA / / ??? PALA PALR / IMBT FORT BRFT CEFT SSA1 SAVO SALV / SALU / / SALU / / ALRT NAIN STJO STJ3 HLFX UCLU TFNO BCPR TGCV	Y N Y	N N N N N N N N N N N N N	
12 36 120 352 351 336 334 334 265 200 199 198 193 350 333 224 223 155 329 155 329 178 177 176	Settlement Point Exuma Chittagong Malakal Malakal Porto De Macaé Porto De Imbituba Fortaleza Fortaleza Fortaleza Salvador Salvador Salvador Salvador Salvador Salvador Salvador Salvador Salvador Salvador Salvador Si Peter & St Paul Rocks Fernando de Noronha Rio de Janeiro - I.Fiscal Cananeia Porto de Rio Grande Port Sonara Alert Nain St John's, Newfoundland St John's, Newfoundland St John's, Newfoundland St John's, Newfoundland Halifax Tofino Tofino Prince Rupert Palmeira Palmeira Captain Prat Base (Antarctica) Puerto Montt San Felix	Bahamas Bahamas Bangladesh Belau Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Cameroon Canada	3411 / 3076 7 670 19006 19009 597 157 9994 3902 / 18523 / 18523 / 10 / 5993 10 / 450 730 4988 4990 3100 37005 343 9000 5 5 5753	BHMA / / ??? PALA PALR / IMBT FORT BRFT CEFT SSA1 SAVO SALV / SALU / / SALU / / ALRT NAIN STJO STJ3 HLFX UCLU TFNO BCPR TGCV	Y N Y	N N N N N N N N N N N N N	
12 36 120 352 351 336 334 334 265 200 199 198 195 193 350 333 224 193 350 333 224 155 329 155 329 177 176 175	Settlement Point Exuma Chittagong Malakal Malakal Porto De Macaé Porto De Imbituba Fortaleza Fortaleza Fortaleza Salvador Salvador Salvador Salvador Salvador Salvador Salvador Salvador Salvador Salvador Salvador Salvador Salvador Salvador Si Peter & St Paul Rocks Fernando de Noronha Rio de Janeiro - I.Fiscal Cananeia Porto de Rio Grande Port Sonara Alert Nain St John's, Newfoundland St John's, Newfoundland St John's, Newfoundland St John's, Newfoundland Halifax Tofino Tofino Prince Rupert Palmeira Palmeira Captain Prat Base (Antarctica) Puerto Montt San Felix Juan Fernandez Island	Bahamas Bahamas Bangladesh Belau Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Cameroon Canada Chile Chile Chile	3411 / 3076 7 7 670 19006 19009 597 157 9994 3902 / 18523 / / 18523 / / 10 / 450 730 4988 4990 3100 37005 343 9000 5 5 5753 / / / / / / / / / / / / / / / / / / /	BHMA / / ??? PALA PALR / IMBT FORT BRFT CEFT SSA1 SAVO SALV / SALU / SALU / SALU / SALU / ALRT NAIN STJO STJ3 HLFX UCLU TFNO BCPR TGCV CPVG / / / / / / / / / / / / / / / / / / /	Y N Y <t< td=""><td>N N N N N N N N N N N N N</td><td></td></t<>	N N N N N N N N N N N N N	
12 36 120 351 351 334 265 200 199 198 192 265 200 199 198 192 193 350 333 224 223 156 329 189 175 176 175	Settlement Point Exuma Chittagong Malakal Malakal Porto De Macaé Porto De Imbituba Fortaleza Fortaleza Fortaleza Salvador Salvador Salvador Salvador Salvador Salvador Salvador Salvador Salvador Salvador Salvador Salvador Si Porta e S. Ponta da Madeira St Peter & St Paul Rocks Fernando de Noronha Rio de Janeiro - I.Fiscal Cananeia Porto de Rio Grande Port Sonara Alert Nain St John's, Newfoundland St John's, Newfoundland St John's, Newfoundland Halifax Tofino Tofino Prince Rupert Palmeira Palmeira Captain Prat Base (Antarctica) Puerto Montt San Felix Juan Fernandez Island Valparaiso	Bahamas Bahamas Bangladesh Belau Belau Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Cameroon Canada Chile Chile Chile Chile	3411 / 3076 7 670 19006 19006 19009 597 157 9994 3902 / 18523 / / 18523 / / 5993 10 / 4988 4990 3100 37005 343 9000 5 5753 / / / / / 910 617	BHMA / / ??? PALA PALR / IMBT FORT BRFT CEFT SSA1 SAVO SALV / SALU / / SALU / / ONRJ NEIA / / ALRT NAIN STJO STJ3 HLFX UCLU TFNO BCPR TGCV CPVG / / / VALP VALN	Y N Y <t< td=""><td>N N N N N N N N N N N N N</td><td></td></t<>	N N N N N N N N N N N N N	
12 36 120 352 351 336 334 265 200 193 195 194 193 350 333 224 222 156 329 155 329 189 177 176 175	Settlement Point Exuma Chittagong Malakal Malakal Porto De Macaé Porto De Imbituba Fortaleza Fortaleza Salvador Salvador Salvador Salvador Salvador Salvador Salvador Salvador Salvador Situda S. Ponta da Madeira St Peter & St Paul Rocks Fernando de Noronha Rio de Janeiro - I.Fiscal Cananeia Porto de Rio Grande Porto de Rio Grande Port Sonara Alert Nain St John's, Newfoundland St John's, Newfoundland St John's, Newfoundland Halifax Tofino Tofino Prince Rupert Palmeira Palmeira Captain Prat Base (Antarctica) Puerto Montt San Felix Juan Fernandez Island Valparaiso	Bahamas Bahamas Bangladesh Belau Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Brazil Cameroon Canada	3411 / 3076 7 670 19006 19009 597 157 9994 3902 / 18523 / / 18523 / / 10 7 450 730 4988 4990 3100 37005 343 9000 5 5753 / / / / / / / / / / / / / / / / / / /	BHMA / / ??? PALA PALR / IMBT FORT BRFT CEFT SSA1 SAVO SALV / SALU / SALU / ONRJ NEIA / / ALRT NAIN STJO STJ3 HLFX UCLU TFNO BCPR TGCV CPVG / / VALP	Y N Y <t< td=""><td>N N N N N N N N N N N N N</td><td></td></t<>	N N N N N N N N N N N N N	

	Pascua (Easter) Is.	Chile	6627	EISL	Y	N
283	Lusi	China, People's Rep.	/		/	/
247	Xiamen	China, People's Rep.	280	???	N	N
94	Kanmen	China, People's Rep.	/	/	/	/
<u>79</u>	Laohutan (Dalian)	China, People's Rep.	/	/	/	/
78	Zhapo	China, People's Rep.	/	/	/	/
70	211000	china, reopie s kep.	/	/	/	/
207	Cartagena	Colombia	1439	CART	Y	N
<u>171</u>	Tumaco	Colombia	316	TUMA	Y	N
<u>170</u>	Buenaventura	Colombia	7854	BUEN	Y	N
261	Pointe-Noire	Congo	/	/	/	/
143	Penrhyn	Cook Islands	/	/	/	/
139	Rarotonga	Cook Islands	3483	CKIS	Y	Y
167	Quepos	Costa Rica	/	/	/	/
257	Abidjan	Cote d'Ivoire	/	/	/	/
276	Gibara	Cuba	/	/	/	/
215	Siboney	Cuba	/	/	/	/
214	Cabo San Antonio	Cuba	/	/	/	/
237	Torshavn, Faroe Islands.	Denmark	1453	ARGI	Y	N
	Torshavn, Faroe Islands.	Denmark	1714	TORS	Y	N
228	Ammassalik, Greenland	Denmark	22193	KULU	Y	N
225	Godthaab/Nuuk, Greenland	Denmark	1422	NUUK	Ν	N
2	Djibouti	Djibouti	/	/	/	/
172	La Libertad	Ecuador	342	SEEC	N	N
	La Libertad	Ecuador	10009	SALN	N	N
169	Baltra, Galapagos Is.	Ecuador	1661	GALA	Y	N
	Baltra, Galapagos Is.	Ecuador	1661	GLPS	Y	Y
349	Alexandria	Egypt	3126	ALEX	Y	Y
<u>J-1J</u>	Alexandria	Egypt	3126	ALX2	Y	N
1	Suez (Port Taufig)	_	/	ALA2	/	/
<u>1</u> 182		Egypt El Salvador				
_	Acajutla	El Salvador	/			
<u>119</u> 117	Yap, Caroline Is.	Fed. Micronesia				
117	Kapingamarangi, Caroline Is. Chuuk Atoll, Caroline Is.	Fed. Micronesia Fed. Micronesia	5119	TRUK	/ Y	/ N
_	-			-	Y	Y
<u>115</u>	Pohnpei, Caroline Is.	Fed. Micronesia	2534	POHN		
<u>122</u>	Suva	Fiji	1166	SUVA	Y	N
<u>338</u>	Fort-de-France	France	7246	LMMF	Y	N
	Fort-de-France	France	2	FFTG	Y	Y
	Fort-de-France	France	1	FFT2	Y	Y
<u>242</u>	Brest	France	292	BRST	Y	Y
	Brest	France	9196	GUIP	Y	N
	Brest	France	10928	BGBC	Y	N
<u>205</u>	Marseille	France	2	MARS	Y	Y
	Marseille	France	1541	PRIE	Y	N
<u>165</u>	Clipperton Is.	France	/	/	/	/
<u>142</u>	Nuku Hiva, Marquesas Is.	France	1	NHTG	N	Y
<u>131</u>					Y	
	Dumont d'Urville	France	2	DUM1		Y
422	Dumont d'Urville	France	2	DUMG	Y	Y
<u>123</u>	Dumont d'Urville Noumea, New Caledonia	France France	2 7223	DUMG NRMG	Y Y	Y N
<u>123</u>	Dumont d'Urville Noumea, New Caledonia Noumea, New Caledonia	France France France	2 7223 7223	DUMG NRMG NRMD	Y Y Y	Y N N
<u>123</u>	Dumont d'Urville Noumea, New Caledonia Noumea, New Caledonia Noumea, New Caledonia	France Fr	2 7223 7223 3159	DUMG NRMG NRMD NOUM	Y Y Y Y	Y N N
	Dumont d'Urville Noumea, New Caledonia Noumea, New Caledonia Noumea, New Caledonia Noumea, New Caledonia	France France France France France	2 7223 7223 3159 10	DUMG NRMG NRMD NOUM NBTG	Y Y Y Y Y	Y N N Y
<u>96</u>	Dumont d'Urville Noumea, New Caledonia Noumea, New Caledonia Noumea, New Caledonia Noumea, New Caledonia Dzaoudzi (Mayotte)	France France France France France France France	2 7223 7223 3159 10 2	DUMG NRMG NRMD NOUM NBTG MAYG	Y Y Y Y Y Y	Y N N Y Y
<u>96</u> 24	Dumont d'Urville Noumea, New Caledonia Noumea, New Caledonia Noumea, New Caledonia Noumea, New Caledonia Dzaoudzi (Mayotte) Saint Paul Island	France France France France France France France France	2 7223 7223 3159 10 2 2	DUMG NRMG NRMD NOUM NBTG MAYG SPTG	Y Y Y Y Y Y Y	Y N N Y Y N
<u>96</u>	Dumont d'Urville Noumea, New Caledonia Noumea, New Caledonia Noumea, New Caledonia Noumea, New Caledonia Dzaoudzi (Mayotte) Saint Paul Island Kerguelen Island	France France France France France France France France France	2 7223 7223 3159 10 2 2 2 77	DUMG NRMG NRMD NOUM NBTG MAYG SPTG KETG	Y Y Y Y Y Y Y Y	Y N N Y Y Y Y
<u>96</u> 24	Dumont d'Urville Noumea, New Caledonia Noumea, New Caledonia Noumea, New Caledonia Dzaoudzi (Mayotte) Saint Paul Island Kerguelen Island Kerguelen Island	France France France France France France France France France France	2 7223 7223 3159 10 2 2 2 77 2643	DUMG NRMG NRMD NOUM NBTG MAYG SPTG KETG KRGG	Y Y Y Y Y Y Y Y Y	Y N N Y Y Y N
<u>96</u> 24 23	Dumont d'Urville Noumea, New Caledonia Noumea, New Caledonia Noumea, New Caledonia Dzaoudzi (Mayotte) Saint Paul Island Kerguelen Island Kerguelen Island Kerguelen Island	France France France France France France France France France France France France	2 7223 7223 3159 10 2 2 77 2643 2643	DUMG NRMG NRMD NOUM NBTG MAYG SPTG KETG KRGG KERG	Y Y Y Y Y Y Y Y Y	Y N N Y Y Y N Y
<u>96</u> 24 23 21	Dumont d'Urville Noumea, New Caledonia Noumea, New Caledonia Noumea, New Caledonia Dzaoudzi (Mayotte) Saint Paul Island Kerguelen Island Kerguelen Island Kerguelen Island Kerguelen Island	France	2 7223 7223 3159 10 2 2 77 2643 2643 2643 1737	DUMG NRMG NRMD NOUM NBTG MAYG SPTG KETG KRGG KERG CZTG	Y Y	Y N N Y Y Y N Y N
96 24 23 21 17	Dumont d'Urville Noumea, New Caledonia Noumea, New Caledonia Noumea, New Caledonia Dzaoudzi (Mayotte) Saint Paul Island Kerguelen Island Kerguelen Island Kerguelen Island Kerguelen Island Kerguelen Island Kerguelen Island	France Fr	2 7223 7223 3159 10 2 2 77 2643 2643 2643 1737 3282	DUMG NRMG NRMD NOUM NBTG MAYG SPTG KETG KRGG KERG CZTG LEPO	Y Y Y Y Y Y Y Y Y Y Y	Y N N Y Y Y N Y N N N
<u>96</u> 24 23 21	Dumont d'Urville Noumea, New Caledonia Noumea, New Caledonia Noumea, New Caledonia Dzaoudzi (Mayotte) Saint Paul Island Kerguelen Island Kerguelen Island Kerguelen Island Crozet Is. Pte des Galets, Reunion Is Cayenne	France Fr	2 7223 7223 3159 10 2 2 77 2643 2643 2643 1737 3282 2	DUMG NRMG NRMD NOUM NBTG MAYG SPTG KETG KRGG KERG CZTG LEPO IRYL	Y Y	Y N N Y Y Y N Y N Y N Y
96 24 23 21 17	Dumont d'Urville Noumea, New Caledonia Noumea, New Caledonia Noumea, New Caledonia Dzaoudzi (Mayotte) Saint Paul Island Kerguelen Island Kerguelen Island Kerguelen Island Crozet Is. Pte des Galets, Reunion Is Cayenne Cayenne	France Fr	2 7223 7223 3159 10 2 2 77 2643 2643 2643 1737 3282 2 24526	DUMG NRMG NRMD NOUM NBTG MAYG SPTG KETG KETG KRGG CZTG LEPO IRYL KOUR	Y Y	Y N N Y Y Y N Y N Y N N Y N
<u>96</u> 24 23 21 17 202	Dumont d'Urville Noumea, New Caledonia Noumea, New Caledonia Noumea, New Caledonia Dzaoudzi (Mayotte) Saint Paul Island Kerguelen Island Kerguelen Island Crozet Is. Pte des Galets, Reunion Is Cayenne Cayenne Cayenne	France Fr	2 7223 7223 3159 10 2 2 2 77 2643 2643 2643 1737 3282 2 24526 11237	DUMG NRMG NRMD NOUM NBTG MAYG SPTG KETG KRGG KERG CZTG LEPO IRYL KOUR CAYN	Y Y	Y N N Y Y Y N Y N Y N N N N N
96 24 23 21 17	Dumont d'Urville Noumea, New Caledonia Noumea, New Caledonia Noumea, New Caledonia Dzaoudzi (Mayotte) Saint Paul Island Kerguelen Island Kerguelen Island Crozet Is. Pte des Galets, Reunion Is Cayenne Cayenne Cayenne Papeete, Tahiti	France Fr	2 7223 7223 3159 10 2 2 77 2643 2643 2643 2643 1737 3282 2 24526 11237 2	DUMG NRMG NRMD NOUM NBTG MAYG SPTG KETG KETG KETG KERG CZTG LEPO IRYL KOUR CAYN PAPE	Y Y	Y N N Y Y Y N Y N N Y N N Y N Y
<u>96</u> 24 23 21 17 202	Dumont d'Urville Noumea, New Caledonia Noumea, New Caledonia Noumea, New Caledonia Dzaoudzi (Mayotte) Saint Paul Island Kerguelen Island Kerguelen Island Crozet Is. Pte des Galets, Reunion Is Cayenne Cayenne Cayenne Cayenne Papeete, Tahiti Papeete, Tahiti	France Fr	2 7223 7223 3159 10 2 2 77 2643 2643 2643 1737 3282 2 2 24526 11237 2 6011	DUMG NRMG NRMD NOUM NBTG MAYG SPTG KETG KETG KETG KERG CZTG LEPO IRYL KOUR CAYN PAPE THTI	Y Y	Y N N Y Y N Y N N Y N N Y N N Y N
<u>96</u> 24 23 21 17 202	Dumont d'Urville Noumea, New Caledonia Noumea, New Caledonia Noumea, New Caledonia Dzaoudzi (Mayotte) Saint Paul Island Kerguelen Island Kerguelen Island Kerguelen Island Crozet Is. Pte des Galets, Reunion Is Cayenne Cayenne Cayenne Cayenne Papeete, Tahiti Papeete, Tahiti	France French Guiana French Guiana French Polynesia French Polynesia French Polynesia	2 7223 7223 3159 10 2 2 2 77 2643 2643 2643 2643 1737 3282 2 2 24526 11237 2 6011 6053	DUMG NRMG NRMD NOUM NBTG MAYG SPTG KETG KETG KERG CZTG LEPO IRYL KOUR CAYN PAPE THTI THTG	Y Y	Y N N Y Y N Y N N Y N N Y N N N N
<u>96</u> 24 23 21 17 202	Dumont d'Urville Noumea, New Caledonia Noumea, New Caledonia Noumea, New Caledonia Dzaoudzi (Mayotte) Saint Paul Island Kerguelen Island Kerguelen Island Kerguelen Island Crozet Is. Pte des Galets, Reunion Is Cayenne Cayenne Cayenne Papeete, Tahiti Papeete, Tahiti Papeete, Tahiti	France French Guiana French Polynesia French Polynesia French Polynesia French Polynesia French Polynesia French Polynesia	2 7223 7223 3159 10 2 2 77 2643 2643 2643 1737 3282 2 24526 11237 2 24526 11237 2 6011 6053 5607	DUMG NRMG NRMD NOUM NBTG SPTG KETG KRGG KERG CZTG LEPO IRYL KOUR CAYN PAPE THTI THTG FAA1	Y Y	Y N N Y Y Y N Y N N Y N N N N N N
<u>96</u> 24 23 21 17 202	Dumont d'Urville Noumea, New Caledonia Noumea, New Caledonia Noumea, New Caledonia Dzaoudzi (Mayotte) Saint Paul Island Kerguelen Island Kerguelen Island Kerguelen Island Crozet Is. Pte des Galets, Reunion Is Cayenne Cayenne Cayenne Papeete, Tahiti Papeete, Tahiti Papeete, Tahiti Papeete, Tahiti	France French Guiana French Polynesia	2 7223 7223 3159 10 2 2 2 77 2643 2643 2643 1737 3282 2 24526 11237 2 24526 11237 2 6011 6053 5607 6035	DUMG NRMG NRMD NOUM NBTG MAYG SPTG KETG KRGG KERG CZTG LEPO IRYL KOUR CAYN PAPE THTI THTG FAA1 TAH1	Y Y	Y N N Y Y Y Y N N Y N Y N N Y N N N N N
<u>96</u> 24 23 21 17 202 140	Dumont d'Urville Noumea, New Caledonia Noumea, New Caledonia Noumea, New Caledonia Dzaoudzi (Mayotte) Saint Paul Island Kerguelen Island Kerguelen Island Kerguelen Island Crozet Is. Pte des Galets, Reunion Is Cayenne Cayenne Cayenne Cayenne Papeete, Tahiti Papeete, Tahiti Papeete, Tahiti Papeete, Tahiti Papeete, Tahiti	France French Guiana French Guiana French Polynesia	2 7223 7223 3159 10 2 2 77 2643 2643 1737 3282 2 24526 11237 2 6011 6053 5607 6035 6035	DUMG NRMG NRMD NOUM NBTG SPTG KETG KRGG KERG CZTG LEPO IRYL KOUR CAYN PAPE THTI THTG FAA1 TAH1 TAH2	Y Y	Y N N Y Y Y Y N Y N N Y N Y N N Y N N N N N N N N
<u>96</u> 24 23 21 17 202	Dumont d'Urville Noumea, New Caledonia Noumea, New Caledonia Noumea, New Caledonia Dzaoudzi (Mayotte) Saint Paul Island Kerguelen Island Kerguelen Island Kerguelen Island Crozet Is. Pte des Galets, Reunion Is Cayenne Cayenne Cayenne Cayenne Papeete, Tahiti Papeete, Tahiti	France French Guiana French Guiana French Polynesia	2 7223 7223 3159 10 2 2 77 2643 2643 2643 1737 3282 2 24526 11237 2 6011 6053 5607 6035 6035 915	DUMG NRMG NRMD NOUM NBTG MAYG SPTG KETG KRGG CZTG LEPO IRYL KOUR CAYN PAPE THTI THTG FAA1 TAH1 TAH2 GAMB	Y Y	Y N N Y Y Y Y N Y N Y N Y N N Y N N N N
<u>96</u> <u>24</u> <u>23</u> <u>17</u> <u>202</u> <u>140</u> <u>138</u>	Dumont d'Urville Noumea, New Caledonia Noumea, New Caledonia Noumea, New Caledonia Dzaoudzi (Mayotte) Saint Paul Island Kerguelen Island Kerguelen Island Crozet Is. Pte des Galets, Reunion Is Cayenne Cayenne Cayenne Cayenne Papeete, Tahiti Papeete, Tahiti	France French Guiana French Guiana French Polynesia	2 7223 7223 3159 10 2 2 77 2643 2643 2643 2643 1737 3282 2 24526 11237 2 24526 11237 2 6011 6053 5607 6035 6035 915 2	DUMG NRMG NRMD NOUM NBTG MAYG SPTG KETG KRGG CZTG LEPO IRYL KOUR CAYN PAPE THTI THTG FAA1 TAH1 TAH1 TAH2 GAMB RKTG	Y Y	Y N N Y Y Y Y N Y N Y N Y N N Y N N N N
<u>96</u> <u>24</u> <u>23</u> <u>17</u> <u>202</u> <u>140</u> <u>138</u> <u>284</u>	Dumont d'Urville Noumea, New Caledonia Noumea, New Caledonia Noumea, New Caledonia Dzaoudzi (Mayotte) Saint Paul Island Kerguelen Island Kerguelen Island Kerguelen Island Crozet Is. Pte des Galets, Reunion Is Cayenne Cayenne Cayenne Cayenne Cayenne Papeete, Tahiti Papeete, Tahiti Papeete, Tahiti Papeete, Tahiti Papeete, Tahiti Papeete, Tahiti Rikitea, Gambier Rikitea, Gambier	France French Guiana French Guiana French Polynesia	2 7223 7223 3159 10 2 2 77 2643 2643 2643 2643 1737 3282 2 24526 11237 2 24526 11237 2 6011 6053 5607 6035 6035 915 2 2	DUMG NRMG NRMD NOUM NBTG MAYG SPTG KETG KRGG CZTG LEPO IRYL KOUR CAYN PAPE THTI THTG FAA1 TAH1 TAH1 TAH2 GAMB RKTG RKTG	Y Y	Y N N Y Y Y N Y N Y N N Y N N Y N N N N
<u>96</u> <u>24</u> <u>23</u> <u>17</u> <u>202</u> <u>140</u> <u>138</u>	Dumont d'Urville Noumea, New Caledonia Noumea, New Caledonia Noumea, New Caledonia Noumea, New Caledonia Dzaoudzi (Mayotte) Saint Paul Island Kerguelen Island Kerguelen Island Kerguelen Island Crozet Is. Pte des Galets, Reunion Is Cayenne Cayenne Cayenne Cayenne Cayenne Papeete, Tahiti Papeete, Tahiti Papeete, Tahiti Papeete, Tahiti Papeete, Tahiti Papeete, Tahiti Rikitea, Gambier Rikitea, Gambier Cuxhaven, Steubenhoft Takoradi	France French Guiana French Guiana French Polynesia	2 7223 7223 3159 10 2 2 77 2643 2643 2643 2643 1737 3282 2 24526 11237 2 24526 11237 2 6011 6053 5607 6035 6035 6035 915 2 2 2	DUMG NRMG NRMD NOUM NBTG MAYG SPTG KETG KETG KERG CZTG LEPO IRYL KOUR CAYN PAPE THTI THTG FAA1 TAH1 TAH1 TAH1 TAH2 GAMB RKTG RKTG TGCU TKTG	Y Y	Y N N Y Y Y Y N Y N N Y N N N N N N N N
96 24 23 117 202 140 138 284 335	Dumont d'Urville Noumea, New Caledonia Noumea, New Caledonia Noumea, New Caledonia Noumea, New Caledonia Dzaoudzi (Mayotte) Saint Paul Island Kerguelen Island Kerguelen Island Crozet Is. Pte des Galets, Reunion Is Cayenne Cayenne Cayenne Cayenne Papeete, Tahiti Papeete, Tahiti Papeete, Tahiti Papeete, Tahiti Papeete, Tahiti Rikitea, Gambier Rikitea, Gambier Cuxhaven, Steubenhoft Takoradi	France French Guiana French Polynesia Ghana Ghana	2 7223 7223 3159 10 2 2 2 77 2643 2643 2643 2643 1737 3282 2 24526 11237 2 24526 11237 2 6011 6053 5607 6035 6035 915 2 2 2 42 1606	DUMG NRMG NRMD NOUM NBTG MAYG SPTG KETG KETG KERG CZTG LEPO IRYL KOUR CAYN PAPE THTI THTG FAA1 TAH1 TAH1 TAH1 TAH1 TAH1 TAH1 TAH1 T	Y Y	Y N N Y Y Y Y N Y N N Y N N N N N N N N
96 24 23 202 202 140 138 284 335 344	Dumont d'Urville Noumea, New Caledonia Noumea, New Caledonia Noumea, New Caledonia Noumea, New Caledonia Dzaoudzi (Mayotte) Saint Paul Island Kerguelen Island Kerguelen Island Kerguelen Island Crozet Is. Pte des Galets, Reunion Is Cayenne Cayenne Cayenne Papeete, Tahiti Papeete, Tahiti Papeete, Tahiti Papeete, Tahiti Papeete, Tahiti Papeete, Tahiti Papeete, Tahiti Papeete, Tahiti Rikitea, Gambier Cuxhaven, Steubenhoft Takoradi Dagotoq	France French Guiana French Guiana French Polynesia Germany Ghana Ghana Greenland	2 7223 7223 3159 10 2 2 77 2643 2643 2643 1737 3282 2 24526 11237 2 2 4526 11237 2 6011 6053 5607 6035 6035 915 2 2 2 42 42 1606 745	DUMG NRMG NRMD NOUM NBTG MAYG SPTG KETG KRGG KERG CZTG LEPO IRYL KOUR CAYN PAPE THTI THTG FAA1 TAH1 TAH2 GAMB RKTG RKTG TGCU TKTG TADI QAQ1	Y N N	Y N N Y Y Y Y N Y N Y N Y N N Y N N N N
96 24 23 117 202 140 138 284 335	Dumont d'Urville Noumea, New Caledonia Noumea, New Caledonia Noumea, New Caledonia Noumea, New Caledonia Dzaoudzi (Mayotte) Saint Paul Island Kerguelen Island Kerguelen Island Kerguelen Island Crozet Is. Pte des Galets, Reunion Is Cayenne Cayenne Papeete, Tahiti Papeete, Tahiti	France French Guiana French Polynesia Germany Ghana Ghana Greenland	2 7223 7223 3159 10 2 2 2 77 2643 2643 2643 1737 3282 2 24526 11237 2 24526 11237 2 2 4526 11237 2 2 6011 6053 5607 6035 6035 915 2 2 2 2 42 1606 745 1359	DUMG NRMG NRMD NOUM NBTG SPTG KETG KRGG KERG CZTG LEPO IRYL KOUR CAYN PAPE THTI THTG FAA1 TAH1 TAH2 GAMB RKTG TGCU TKTG TADI QAQ1 THU1	Y N N Y Y	Y N N Y Y Y Y N Y N Y N Y N N Y N N N N
96 24 23 202 202 140 138 284 335 344	Dumont d'Urville Noumea, New Caledonia Noumea, New Caledonia Noumea, New Caledonia Noumea, New Caledonia Dzaoudzi (Mayotte) Saint Paul Island Kerguelen Island Kerguelen Island Kerguelen Island Crozet Is. Pte des Galets, Reunion Is Cayenne Cayenne Papeete, Tahiti Papeete, Tahiti Papeete, Tahiti Papeete, Tahiti Rikitea, Gambier Rikitea, Gambier Rikitea, Gambier Cayandi Qaqortoq Pituffik/Thule	France French Guiana French Polynesia Germany Ghana Greenland Greenland	2 7223 7223 3159 10 2 2 2 77 2643 2643 2643 1737 3282 2 24526 11237 2 24526 11237 2 24526 11237 2 2 6011 6053 5607 6035 6035 915 2 2 2 2 42 1606 745 1359 402	DUMG NRMG NRMD NOUM NBTG SPTG KETG KRGG KERG CZTG LEPO IRYL KOUR CAYN PAPE THTI THTG FAA1 TAH1 TAH2 GAMB RKTG TAD1 QAQ1 THU1 THU2	Y N N Y Y Y Y Y Y Y Y Y Y Y Y Y Y	Y N N Y Y Y Y N N Y N N Y N N Y N N N N
96 24 23 202 202 140 138 284 335 344	Dumont d'Urville Noumea, New Caledonia Noumea, New Caledonia Noumea, New Caledonia Noumea, New Caledonia Dzaoudzi (Mayotte) Saint Paul Island Kerguelen Island Kerguelen Island Crozet Is. Pte des Galets, Reunion Is Cayenne Cayenne Cayenne Cayenne Cayenne Papeete, Tahiti Papeete, Tahiti Papeete, Tahiti Papeete, Tahiti Papeete, Tahiti Papeete, Tahiti Rikitea, Gambier Rikitea, Gambier Cuxhaven, Steubenhoft Takoradi Takoradi Qaqortoq Pituffik/Thule Pitufik/Thule	France French Guiana French Polynesia Germany Ghana Ghana Greenland	2 7223 7223 3159 10 2 2 2 77 2643 2643 2643 1737 3282 2 24526 11237 2 24526 11237 2 2 4526 11237 2 2 6011 6053 5607 6035 6035 915 2 2 2 2 42 1606 745 1359	DUMG NRMG NRMD NOUM NBTG SPTG KETG KRGG KERG CZTG LEPO IRYL KOUR CAYN PAPE THTI THTG FAA1 TAH1 TAH2 GAMB RKTG TGCU TKTG TADI QAQ1 THU1	Y Y	Y N N N Y Y Y N Y N N Y N N Y N N N N N
96 24 23 11 202 140 138 284 335 344 343	Dumont d'Urville Noumea, New Caledonia Noumea, New Caledonia Noumea, New Caledonia Dzaoudzi (Mayotte) Saint Paul Island Kerguelen Island Kerguelen Island Kerguelen Island Crozet Is. Pte des Galets, Reunion Is Cayenne Cayenne Cayenne Cayenne Cayenne Papeete, Tahiti Papeete, Tahiti Papeete, Tahiti Papeete, Tahiti Papeete, Tahiti Rikitea, Gambier Rikitea, Gambier Rikitea, Gambier Rikitea, Gambier Takoradi Qaqortoq Pituffik/Thule Pituffik/Thule Pituffik/Thule	France French Guiana French Polynesia Germany Ghana Greenland Greenland Greenland Greenland Greenland	2 7223 7223 3159 10 2 2 2 77 2643 2643 2643 2643 1737 3282 2 24526 11237 2 24526 11237 2 24526 11237 2 6011 6053 5607 6035 6035 915 2 2 2 2 42 1606 745 1359 402 402	DUMG NRMG NRMD NOUM NBTG MAYG SPTG KETG KRGG CZTG LEPO IRYL KOUR CAYN PAPE THTI THTG FAA1 THTI THTG FAA1 THTI THTG FAA1 TAH1 TAH2 GAMB RKTG TGCU TKTG TADI QAQ1 THU1 THU2 THU3 SCOR	Y N N Y Y Y Y Y Y Y Y Y Y Y Y Y Y	Y N N Y Y Y Y N N Y N N Y N N Y N N N N
96 24 23 117 202 140 138 284 335 344 343 315 255	Dumont d'Urville Noumea, New Caledonia Noumea, New Caledonia Noumea, New Caledonia Dzaoudzi (Mayotte) Saint Paul Island Kerguelen Island Kerguelen Island Crozet Is. Pte des Galets, Reunion Is Cayenne Cayenne Cayenne Cayenne Cayenne Papeete, Tahiti Papeete, Tahiti Papeete, Tahiti Papeete, Tahiti Papeete, Tahiti Papeete, Tahiti Rikitea, Gambier Rikitea, Gambier Rikitea, Gambier Rikitea, Gambier Datordi Cuxhaven, Steubenhoft Takoradi Qaqortoq Pituffik/Thule Pituffik/Thule Pituffik/Thule	France French Guiana French Guiana French Polynesia Greenland	2 7223 7223 3159 10 2 2 77 2643 2643 2643 2643 1737 3282 2 24526 11237 2 24526 11237 2 2 6011 6053 5607 6035 6035 6035 915 2 2 2 2 42 1606 745 1359 402 402 465	DUMG NRMG NRMD NOUM NBTG MAYG SPTG KETG KRGG CZTG LEPO IRYL KOUR CAYN PAPE THTI THTG FAA1 THTG FAA1 THTG FAA1 THTG FAA1 THTG THTG THTG THTG TADI QAQ1 THU1 THU2 THU3 SCOR	Y Y	Y N N N Y Y Y N Y N N Y N N Y N N N N N
96 24 23 117 202 1138 1284 335 344 343 3115 255 209	Dumont d'Urville Noumea, New Caledonia Noumea, New Caledonia Noumea, New Caledonia Dzaoudzi (Mayotte) Saint Paul Island Kerguelen Island Kerguelen Island Crozet Is. Pte des Galets, Reunion Is Cayenne Cayenne Cayenne Cayenne Cayenne Papeete, Tahiti Papeete, Tahiti Papeete, Tahiti Papeete, Tahiti Papeete, Tahiti Papeete, Tahiti Rikitea, Gambier Rikitea, Gambier Cuxhaven, Steubenhoft Takoradi Qaqortoq Pituffik/Thule Pituffik/Thule Pituffik/Thule Pituffik/Thule Net Scoresbysund Conakry Port-au-Prince/Les Cayes	France French Guiana French Guiana French Polynesia Greenland Greenland Greenland Greenland Greenland Greenland Greenland Haiti	2 7223 7223 3159 10 2 2 77 2643 2643 2643 2643 1737 3282 2 24526 11237 2 6011 6053 5607 6035 6035 915 2 2 2 42 1606 745 1359 402 465 / 6069	DUMG NRMG NRMD NOUM NBTG MAYG SPTG KETG KRGG CZTG LEPO IRYL KOUR CAYN PAPE THTI THTG FAA1 TAH1 THTG FAA1 TAH1 TAH2 GAMB RKTG TGCU TKTG TADI QAQ1 THU3 THU3 SCOR / VOIL	Y Y	Y N N N Y Y Y N Y N N Y N N Y N N N N N
96 24 23 117 202 140 138 284 335 344 343 315 255	Dumont d'Urville Noumea, New Caledonia Noumea, New Caledonia Noumea, New Caledonia Noumea, New Caledonia Dzaoudzi (Mayotte) Saint Paul Island Kerguelen Island Kerguelen Island Crozet Is. Pte des Galets, Reunion Is Cayenne Cayenne Cayenne Cayenne Cayenne Papeete, Tahiti Papeete, Tahiti Papeete, Tahiti Papeete, Tahiti Papeete, Tahiti Papeete, Tahiti Papeete, Tahiti Rikitea, Gambier Rikitea, Gambier Cuxhaven, Steubenhoft Takoradi Qaqortoq Pituffik/Thule Pituffik/Thule Pituffik/Thule Ittoqqortoormiit/Scoresbysund Conakry Port-au-Prince/Les Cayes Quarry Bay	France French Guiana French Guiana French Polynesia Greenland Greenland Greenland Greenland Greenland Greenland Guinea Haiti	2 7223 7223 3159 10 2 2 77 2643 2643 2643 2643 2643 1737 3282 2 24526 11237 2 24526 11237 2 24526 11237 2 6011 6053 5607 6035 6035 6035 915 2 2 2 42 1606 745 1359 402 402 465 <i>/</i> 6069 6528	DUMG NRMG NRMD NOUM NBTG MAYG SPTG KETG KRGG CZTG LEPO IRYL KOUR CAYN PAPE THTI THTG FAA1 THTI THTG FAA1 THTI THTG FAA1 THTI THTG FAA1 THTI THTG FAA1 THTI THTG FAA1 THU1 THU2 THU3 SCOR / VOIL HKSC	Y Y	Y N N N Y Y N N Y N N Y N N Y N N N N N
96 24 23 117 202 1138 1284 335 344 343 3115 255 209	Dumont d'Urville Noumea, New Caledonia Noumea, New Caledonia Noumea, New Caledonia Dzaoudzi (Mayotte) Saint Paul Island Kerguelen Island Kerguelen Island Crozet Is. Pte des Galets, Reunion Is Cayenne Cayenne Cayenne Cayenne Cayenne Papeete, Tahiti Papeete, Tahiti Papeete, Tahiti Papeete, Tahiti Papeete, Tahiti Papeete, Tahiti Rikitea, Gambier Rikitea, Gambier Cuxhaven, Steubenhoft Takoradi Qaqortoq Pituffik/Thule Pituffik/Thule Pituffik/Thule Pituffik/Thule Net Scoresbysund Conakry Port-au-Prince/Les Cayes	France French Guiana French Guiana French Polynesia Greenland Greenland Greenland Greenland Greenland Greenland Greenland Haiti	2 7223 7223 3159 10 2 2 77 2643 2643 2643 2643 1737 3282 2 24526 11237 2 6011 6053 5607 6035 6035 915 2 2 2 42 1606 745 1359 402 465 / 6069	DUMG NRMG NRMD NOUM NBTG MAYG SPTG KETG KRGG CZTG LEPO IRYL KOUR CAYN PAPE THTI THTG FAA1 TAH1 THTG FAA1 TAH1 TAH2 GAMB RKTG TGCU TKTG TADI QAQ1 THU3 THU3 SCOR / VOIL	Y Y	Y N N N Y Y Y N Y Y N N Y N N Y N N N N

<u>38</u>	Port Blair, Andaman Is.	India	7800	PBRI	Y	N
	Port Blair, Andaman Is.	India	7789	PBR2	Y	N
	Port Blair, Andaman Is.	India	9237	CARI	Y	N
35	Vishakhapatnam	India	2	VISA	N	N
34	Chennai/Madras	India	1	/	/	/
32	Cochin	India	/		/	/
_			/		/	
31	Veraval	India	/	/	/	
<u>29</u>	Minicoy, Laccadive Is.	India		/	/	/
347	Sabang	Indonesia	/	/	/	/
<u>346</u>	Waikelo	Indonesia	2	WAIK	N	N
<u>292</u>	Surabaya	Indonesia	/	/	/	/
291	Cilacap	Indonesia	61	CLCP	Y	N
	Cilacap	Indonesia	2918	CILI	Y	N
69	Manado (Bitung)	Indonesia	1231	BTNG	Y	N
	Manado (Bitung)	Indonesia	1942	CBIT	N	Ν
68	Ambon	Indonesia	5261	CAMB	N	N
49	Benoa	Indonesia	235	BNOA	Y	N
45	Padang (Telu Bayuk)	Indonesia	730	IPAO	Y	N
	Padang (Telu Bayuk)	Indonesia	2	PADA	N	N
					Y	
	Padang (Telu Bayuk)	Indonesia	19467	PSKI		N
<u>337</u>	Chabahar	Iran	/	/	/	/
<u>330</u>	Castletownbere	Ireland	/	/	/	/
239	Malin Head	Ireland		???	N	Ν
80	Hadera	Israel	3139	CSAR	Y	Y
340	Trieste	Italy	6695	TRIE	Ŷ	N
				JAMA	Y	N
<u>210</u>	Port Royal, Kingston	Jamaica	7335			
	Port Royal, Kingston	Jamaica	13280	CN12	Y	N
<u>327</u>	Abashiri	Japan	16	P202	Y	Y
<u>326</u>	Hamada	Japan	306	P209	Y	Y
<u>325</u>	Toyama	Japan	890	P207	Y	Y
324	Wakkanai	Japan	880	P201	Y	Y
104	Minami-tori-shima	Japan	1631	MARC	Y	Ν
	Minami-tori-shima	Japan	1644	MCIL	Ŷ	N
103	Chichijima	Japan	1696	P213	Ŷ	Y
	Chichijima	Japan	1407	CCIM	Y	N
	Chichijima		2094	CCJM CCJ2	Y	Y
05		Japan				
<u>95</u>	Syowa	Japan	543	SYOG	Y	N
<u>89</u>	Kushiro	Japan	2	P203	Y	Y
88	Hakodate	Japan	2	P204	Y	Y
<u>87</u>	Ofunato	Japan	405	P205	Y	Y
<u>86</u>	Mera	Japan	2	P206	Y	Y
85	Kushimoto	Japan	2	P208	Y	Y
83	Nagasaki	Japan	251	P210	Y	Y
82	Aburatsu	Japan	29	P211	Y	Y
81						
	Naha	lanan	456	P212	Y	Ŷ
	Naha	Japan Konya	456	P212	Y	Y
8	Mombasa	Kenya	456	P212	Y /	Y /
<u>8</u> 146	Mombasa Christmas Is., Line Is.	Kenya Kiribati	456 / /		Y / /	Y / /
<u>8</u> 146 145	Mombasa Christmas Is., Line Is. Kanton Is., Phoenix Is.	Kenya Kiribati Kiribati	 	/ / /	/ / /	/ / /
<u>8</u> 146	Mombasa Christmas Is., Line Is.	Kenya Kiribati Kiribati Kiribati	456 / / / 1605		Y // // Y	Y / / / Y
<u>8</u> 146 145	Mombasa Christmas Is., Line Is. Kanton Is., Phoenix Is.	Kenya Kiribati Kiribati	 	/ / /	/ / /	/ / /
8 146 145 113	Mombasa Christmas Is., Line Is. Kanton Is., Phoenix Is. Tarawa, Gilbert Is.	Kenya Kiribati Kiribati Kiribati	/ / / 1605	/ / /	/ / / Y	/ / /
8 146 145 113 307	Mombasa Christmas Is., Line Is. Kanton Is., Phoenix Is. Tarawa, Gilbert Is. Won San	Kenya Kiribati Kiribati Kiribati Korea, PDR	/ / / 1605 /	/ / / KIRI /	/ // / Y	/ / / Y
8 146 145 113 307 84 271	Mombasa Christmas Is., Line Is. Kanton Is., Phoenix Is. Tarawa, Gilbert Is. Won San Pusan Fort Dauphin (Taolanaro)	Kenya Kiribati Kiribati Kiribati Korea, PDR Korea, Republic of Madagascar	/ / / 1605 /	/ / / KIRI /	/ // / Y	/ / / Y
8 146 145 113 307 84	Mombasa Christmas Is., Line Is. Kanton Is., Phoenix Is. Tarawa, Gilbert Is. Won San Pusan	Kenya Kiribati Kiribati Kiribati Korea, PDR Korea, Republic of	/ / / 1605 /	/ / / KIRI /	/ // / Y	/ / / Y
8 146 145 113 307 84 271	Mombasa Christmas Is., Line Is. Kanton Is., Phoenix Is. Tarawa, Gilbert Is. Won San Pusan Fort Dauphin (Taolanaro)	Kenya Kiribati Kiribati Kiribati Korea, PDR Korea, Republic of Madagascar	/ / / 1605 /	/ / KIRI / PUSW / /	/ / Y / / / / /	/ / Y / / / /
8 146 145 113 307 84 271 15 293	Mombasa Christmas Is., Line Is. Kanton Is., Phoenix Is. Tarawa, Gilbert Is. Won San Pusan Fort Dauphin (Taolanaro) Nosy-Be Chendering/Kuala Terengganu	Kenya Kiribati Kiribati Korea, PDR Korea, Republic of Madagascar Madagascar Malaysia	/ / 1605 / 343 / /	/ / / KIRI /	/ // / Y	/ / / Y
8 146 145 113 <u>307</u> 84 271 15 293 43	Mombasa Christmas Is., Line Is. Kanton Is., Phoenix Is. Tarawa, Gilbert Is. Won San Pusan Fort Dauphin (Taolanaro) Nosy-Be Chendering/Kuala Terengganu Pengkalan TLDM Lumut	Kenya Kiribati Kiribati Korea, PDR Korea, Republic of Madagascar Madagascar Malaysia Malaysia	/ / 1605 / 343 / / 8070 /	/ / / / / / / / / / / / / / / / / / /	/ / / / / / / / / / / / / / / / / / /	/ / Y / / / / / / / /
8 146 145 113 307 84 271 15 293	Mombasa Christmas Is., Line Is. Kanton Is., Phoenix Is. Tarawa, Gilbert Is. Won San Pusan Fort Dauphin (Taolanaro) Nosy-Be Chendering/Kuala Terengganu Pengkalan TLDM Lumut Male	Kenya Kiribati Kiribati Korea, PDR Korea, Republic of Madagascar Madagascar Malaysia Malaysia Malaysia	/ / 1605 / 343 / / 8070 / 1190	/ / KIRI / PUSW / / / / KUAL / HULE	/ / Y / / / / /	/ / Y / / / / / / / / / / / / / / /
8 146 145 113 <u>307</u> 84 271 15 293 43	Mombasa Christmas Is., Line Is. Kanton Is., Phoenix Is. Tarawa, Gilbert Is. Won San Pusan Fort Dauphin (Taolanaro) Nosy-Be Chendering/Kuala Terengganu Pengkalan TLDM Lumut	Kenya Kiribati Kiribati Korea, PDR Korea, Republic of Madagascar Madagascar Malaysia Malaysia	/ / 1605 / 343 / / 8070 /	/ / / / / / / / / / / / / / / / / / /	/ / / / / / / / / / / / / / / / / / /	/ / Y / / / / / / / / / / / / / / / / /
8 146 145 113 <u>307</u> 84 271 15 293 43	Mombasa Christmas Is., Line Is. Kanton Is., Phoenix Is. Tarawa, Gilbert Is. Won San Pusan Fort Dauphin (Taolanaro) Nosy-Be Chendering/Kuala Terengganu Pengkalan TLDM Lumut Male	Kenya Kiribati Kiribati Korea, PDR Korea, Republic of Madagascar Madagascar Malaysia Malaysia Malaysia	/ / 1605 / 343 / / 8070 / 1190	/ / KIRI / PUSW / / / / KUAL / HULE	/ / / / / / / / / / / / / / / / / / /	/ / Y / / / / / / / / / / / / / / /
8 146 145 113 307 84 271 15 293 43 28	Mombasa Christmas Is., Line Is. Kanton Is., Phoenix Is. Tarawa, Gilbert Is. Won San Pusan Fort Dauphin (Taolanaro) Nosy-Be Chendering/Kuala Terengganu Pengkalan TLDM Lumut Male Male	Kenya Kiribati Kiribati Korea, PDR Korea, Republic of Madagascar Madagascar Malaysia Malaysia Malaysia Maldives Maldives	/ / 1605 / 343 / / 8070 / 1190 5	/ / KIRI / PUSW / / / KUAL / HULE MALD	/ / Y / / / / / / / / / / / / / / / / /	/ / Y / / / / / / / / / / / / / / / / /
8 146 145 113 307 84 271 15 293 43 28 28 27	Mombasa Christmas Is., Line Is. Kanton Is., Phoenix Is. Tarawa, Gilbert Is. Won San Pusan Fort Dauphin (Taolanaro) Nosy-Be Chendering/Kuala Terengganu Pengkalan TLDM Lumut Male Gan	Kenya Kiribati Kiribati Kiribati Korea, PDR Korea, Republic of Madagascar Madagascar Malaysia Malaysia Malaysia Maldives Maldives Maldives Maldives	/ / / 1605 / 343 / 343 / / 8070 / 8070 / 1190 5 465	/ / KIRI PUSW / KURL HULE MALD ADDU	/ / / / / / / / / / / / / / / / / / /	/ / Y / / / / / / / / / / / / / / / / /
8 146 145 113 307 84 271 15 293 43 293 23 293 212 112 111	Mombasa Christmas Is., Line Is. Kanton Is., Phoenix Is. Tarawa, Gilbert Is. Won San Pusan Fort Dauphin (Taolanaro) Nosy-Be Chendering/Kuala Terengganu Pengkalan TLDM Lumut Male Male Gan Majuro Kwajalein	Kenya Kiribati Kiribati Kiribati Korea, PDR Korea, Republic of Madagascar Madagascar Malaysia Malaysia Malaysia Maldives Maldives Maldives Maldives Maldives Maldives Maldises Marshall Is. Marshall Is.	/ / 1605 / 343 / / 8070 / 8070 / 1190 5 465 1716 1172	/ / KIRI PUSW / KUAL / HULE MALD ADDU MAJU KWJ1	/ / / / / / / / / / / / / / / / / / /	/ / Y / / / / / / / / / / / / / / / / /
8 146 143 307 84 271 15 293 43 28 1112 1112 1111 19	Mombasa Christmas Is., Line Is. Kanton Is., Phoenix Is. Tarawa, Gilbert Is. Won San Pusan Fort Dauphin (Taolanaro) Nosy-Be Chendering/Kuala Terengganu Pengkalan TLDM Lumut Male Gan Majuro Kwajalein Rodrigues, Port Mathurin	Kenya Kiribati Kiribati Kiribati Korea, PDR Korea, Republic of Madagascar Madagascar Malaysia Malaysia Maldives Maldives Maldives Maldives Maldives Maldives Maldises Marshall Is. Mauritius	/ / 1605 / 343 / / 8070 / 8070 / 1190 5 465 1716 1172 553	/ / KIRI / PUSW / KUAL / HULE MALD ADDU MAJU KWJ1 RDRG	/ / / / / / / / / / / / / / / / / / /	/ / / Y / / / / / / / / / / / / / / N / / N / N Y N Y
8 146 145 113 307 84 271 15 293 43 28 27 112 111 19 18	Mombasa Christmas Is., Line Is. Kanton Is., Phoenix Is. Tarawa, Gilbert Is. Won San Pusan Fort Dauphin (Taolanaro) Nosy-Be Chendering/Kuala Terengganu Pengkalan TLDM Lumut Male Gan Majuro Kwajalein Rodrigues, Port Mathurin Port Louis Harbour	Kenya Kiribati Kiribati Kiribati Korea, PDR Korea, Republic of Madagascar Madagascar Malaysia Malaysia Maldives Maldives Maldives Maldives Maldives Maldives Maldis Maldives M	/ / / 1605 / 343 / / 8070 / 1190 5 465 1716 1172 553 15609	/ / KIRI / PUSW / KUAL / HULE MALD ADDU MAJU KWJ1 RDRG VACS	/ / / / / / / / / / / / / / / / / / /	/ / / / Y / / N / / / / N / / N / N Y N Y
8 146 145 113 307 84 271 15 293 43 28 211 112 111 19 18 267	Mombasa Christmas Is., Line Is. Kanton Is., Phoenix Is. Tarawa, Gilbert Is. Won San Pusan Fort Dauphin (Taolanaro) Nosy-Be Chendering/Kuala Terengganu Pengkalan TLDM Lumut Male Gan Majuro Kwajalein Rodrigues, Port Mathurin Port Louis Harbour Acapulco, Gro.	Kenya Kiribati Kiribati Korea, PDR Korea, Republic of Madagascar Madagascar Malaysia Malaysia Maldives Marshall Is. Mauritius Mauritius	/ / 1605 / 343 / / 8070 / 8070 / 1190 5 465 1716 1172 553 15609 2	/ / KIRI / PUSW / KUAL / HULE MALD ADDU MAJU KWJ1 RDRG VACS ACYA	/ / / / / / / / / / / / / / / / / / /	/ / / Y / / N / / / / N / / N / N / N Y N N N N
8 146 145 113 307 84 271 15 293 43 28 27 112 111 19 18	Mombasa Christmas Is., Line Is. Kanton Is., Phoenix Is. Tarawa, Gilbert Is. Won San Pusan Fort Dauphin (Taolanaro) Nosy-Be Chendering/Kuala Terengganu Pengkalan TLDM Lumut Male Gan Majuro Kwajalein Rodrigues, Port Mathurin Port Louis Harbour Acapulco, Gro. Progreso, Yuc.	Kenya Kiribati Kiribati Korea, PDR Korea, Republic of Madagascar Madagascar Malaysia Malaysia Maldives Marshall Is. Mauritius Mauritius Mexico	/ / / 1605 / 343 / / 8070 / 1190 5 465 1716 1172 553 15609 2 2 2	/ / KIRI / PUSW / KUAL / HULE MALD ADDU MAJU KWJ1 RDRG VACS ACYA PROX	/ / / / / / / / / / / / / / / / / / /	/ / / Y / N / / N / / N / N / N Y N N N N
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8 146 145 113 307 84 271 15 293 43 28 293 293 293 293 293 293 293 293 293 207 111 19 18 267 213 212	Mombasa Christmas Is., Line Is. Kanton Is., Phoenix Is. Tarawa, Gilbert Is. Won San Pusan Fort Dauphin (Taolanaro) Nosy-Be Chendering/Kuala Terengganu Pengkalan TLDM Lumut Male Gan Majuro Kwajalein Rodrigues, Port Mathurin Port Louis Harbour Acapulco, Gro. Progreso, Yuc. Veracruz, Ver.	Kenya Kiribati Kiribati Kiribati Korea, PDR Korea, Republic of Madagascar Madagascar Malaysia Malaysia Maldives Maldives Maldives Maldives Maldives Maldives Maldives Mather Mauritius Mauritius Mexico Mexico Mexico Mexico Mexico	/ / 1605 / 343 / 8070 / 1190 5 465 1716 1172 553 15609 2 2 2 36222 2	/ / KIRI / PUSW / KUAL / HULE MALD ADDU MAJU KWJ1 RDRG VACS ACVA PROX MERI VRCX	/ / Y / / / / / / / / / / / / / / / / /	/ / / Y Y / N / / N / N Y N Y N N N N N
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8 146 145 113 307 84 271 15 293 43 28 211 12 111 12 121 122 131 122 132 213 212 164 163 162 161	Mombasa Christmas Is., Line Is. Kanton Is., Phoenix Is. Tarawa, Gilbert Is. Won San Pusan Fort Dauphin (Taolanaro) Nosy-Be Chendering/Kuala Terengganu Pengkalan TLDM Lumut Male Gan Majuro Kwajalein Rodrigues, Port Mathurin Port Louis Harbour Acapulco, Gro. Progreso, Yuc. Veracruz, Ver. Puerto Angel Manzanillo, Col. Manzanillo, Col. Manzanillo, Col. Manzanillo, Col. Manzanillo, Col. Socorro Is. Cabo San Lucas	Kenya Kiribati Kiribati Kiribati Korea, PDR Korea, Republic of Madagascar Madagascar Malaysia Malaysia Maldives Maldives Maldives Maldives Maldives Maldives Maldives Marshall Is. Mauritius Mexico	/ / / / 1605 / 343 / 343 / 8070 / 8070 / 1190 5 465 1716 1172 553 15609 2 2 2 36222 2 891 2 36222 2 891 2 3 11607 11574 1884 / / /	/ / KIRI / PUSW / KUAL / HULE MALD ADDU MAJU KWJ1 RDRG VACS ACVA PROX MERI VRCX OXUM MANZ MNZO UCOM TNMZ MZNC /	/ / / / / / / / / / / / / / / / / / /	/ / / / Y / N / / N / N / N N N N N N N
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8 146 145 113 307 84 271 15 293 43 28 211 12 111 12 121 122 131 122 132 213 212 164 163 162 161	Mombasa Christmas Is., Line Is. Kanton Is., Phoenix Is. Tarawa, Gilbert Is. Won San Pusan Fort Dauphin (Taolanaro) Nosy-Be Chendering/Kuala Terengganu Pengkalan TLDM Lumut Male Gan Majuro Kwajalein Rodrigues, Port Mathurin Port Louis Harbour Acapulco, Gro. Progreso, Yuc. Veracruz, Ver. Puerto Angel Manzanillo, Col. Manzanillo, Col. Manzanillo, Col. Manzanillo, Col. Manzanillo, Col. Socorro Is. Cabo San Lucas	Kenya Kiribati Kiribati Kiribati Korea, PDR Korea, Republic of Madagascar Madagascar Malaysia Malaysia Maldives Maldives Maldives Maldives Maldives Maldives Maldives Marshall Is. Mauritius Mexico	/ / / / 1605 / 343 / 343 / 8070 / 8070 / 1190 5 465 1716 1172 553 15609 2 2 2 36222 2 891 2 36222 2 891 2 3 11607 11574 1884 / / /	/ / KIRI / PUSW / KUAL / HULE MALD ADDU MAJU KWJ1 RDRG VACS ACVA PROX MERI VRCX OXUM MANZ MNZO UCOM TNMZ MZNC /	/ / / / / / / / / / / / / / / / / / /	/ / / / Y / N / / N / N / N N N N N N N
8 146 145 113 307 84 271 15 293 43 28 211 12 112 111 12 112 111 12 13 267 213 211 164 163 162 161 160	Mombasa Christmas Is., Line Is. Kanton Is., Phoenix Is. Tarawa, Gilbert Is. Won San Pusan Fort Dauphin (Taolanaro) Nosy-Be Chendering/Kuala Terengganu Pengkalan TLDM Lumut Male Gan Majuro Kwajalein Rodrigues, Port Mathurin Port Louis Harbour Acapulco, Gro. Progreso, Yuc. Veracruz, Ver. Puerto Angel Manzanillo, Col. Manzanillo, Col. Manzanillo, Col. Manzanillo, Col. Socorro Is. Cabo San Lucas Isla Guadalupe	Kenya Kiribati Kiribati Kiribati Korea, PDR Korea, Republic of Madagascar Malaysia Malaysia Malaysia Maldives Maldives Maldives Maldives Maldives Maldives Maldives Marshall Is. Mauritius Mexico Mexico <tr td=""></tr>	/ / / / 1605 / 343 / 343 / 343 / 343 / 343 / 343 / 343 / 343 / 343 / 343 / 343 / 35609 2 2 36222 2 36222 2 36222 2 36222 2 36222 2 36222 3 3 11607 11574 1884 / / / / 241	/ / KIRI / PUSW / KUAL KUAL HULE MALD ADDU MALD ADDU MALD ACYA PROX MERI VRCX OXUM MANZ MNZO UCOM TNMZ MZNC / GUAX	/ / / / / / / / / / / / / / / / / / /	/ / / / Y / N / / N / N / N / N N N N N
8 146 145 113 307 84 271 15 293 43 28 211 112 1111 19 18 267 213 212 164 163 161 160 282	Mombasa Christmas Is., Line Is. Kanton Is., Phoenix Is. Tarawa, Gilbert Is. Won San Pusan Fort Dauphin (Taolanaro) Nosy-Be Chendering/Kuala Terengganu Pengkalan TLDM Lumut Male Gan Majuro Kwajalein Rodrigues, Port Mathurin Port Louis Harbour Acapulco, Gro. Progreso, Yuc. Progreso, Yuc. Veracruz, Ver. Puerto Angel Manzanillo, Col. Manzanillo, Col. Manzanillo, Col. Manzanillo, Col. Manzanillo, Col. Socorro Is. Cabo San Lucas Isla Guadalupe Tan Tan	Kenya Kiribati Kiribati Kiribati Korea, PDR Korea, Republic of Madagascar Madagascar Malaysia Malaysia Maldives Maldives Maldives Maldives Maldives Marshall Is. Mauritius Mexico Mexico <tr td=""></tr>	/ / / / 1605 / 343 / 344 / 34	/ / KIRI / PUSW / KUAL / HULE MALD ADDU MALD ADDU MALD ACYA PROX MERI VRCS OXUM MANZ MNZO UCOM TNMZ MZNC / GUAX	/ / / / / / / / / / / / / / / / / / /	/ / / / / / / / / / / / / / / / / / /
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8 146 145 113 307 84 271 15 293 43 228 112 111 19 18 207 112 111 19 164 163 162 161 160 282 11 10 141	Mombasa Christmas Is., Line Is. Kanton Is., Phoenix Is. Tarawa, Gilbert Is. Won San Pusan Fort Dauphin (Taolanaro) Nosy-Be Chendering/Kuala Terengganu Pengkalan TLDM Lumut Male Gan Majuro Kwajalein Rodrigues, Port Mathurin Port Louis Harbour Acapulco, Gro. Progreso, Yuc. Progreso, Yuc. Veracruz, Ver. Puerto Angel Manzanillo, Col. Manzanillo, Col. Manzanillo, Col. Manzanillo, Col. Manzanillo, Col. Manzanillo, Col. Manzanillo, Col. Socorro Is. Cabo San Lucas Isla Guadalupe Tan Tan Pemba Inhambane Moulmein (Mawlamyine)	Kenya Kiribati Kiribati Kiribati Korea, PDR Korea, Republic of Madagascar Madagascar Malaysia Malaysia Maldives Maldives Maldives Maldives Maldives Marshall Is. Mauritius Mexico	/ / / / / 1605 / 343 / 343 / 8070 / 1190 5 465 1716 1172 553 15609 2 2 36222 2 891 2 36222 2 891 2 3 11607 11574 1884 / / 11574 1884 / / 241 / 415 734	/ / KIRI / PUSW / KUAL / KUAL / KUAL / KUAL / MAID ADDU MAJU KW11 RDRG VACS ACYA PROX MERI VRCX OXUM MANZ MNZO UCOM TNMZ MZNC / GUAX / PMBA INHB	/ / / Y / / / / Y <t< td=""><td>/ / / Y N / / N / N Y N N N N N N N N N</td></t<>	/ / / Y N / / N / N Y N N N N N N N N N
8 146 145 113 307 84 271 15 293 43 227 112 111 19 18 267 212 164 163 162 161 162 11 10 141 37	Mombasa Christmas Is., Line Is. Kanton Is., Phoenix Is. Tarawa, Gilbert Is. Won San Pusan Fort Dauphin (Taolanaro) Nosy-Be Chendering/Kuala Terengganu Pengkalan TLDM Lumut Male Gan Majuro Kwajalein Rodrigues, Port Mathurin Port Louis Harbour Acapulco, Gro. Progreso, Yuc. Progreso, Yuc. Progreso, Yuc. Veracruz, Ver. Puerto Angel Manzanillo, Col. Manzanillo, Col. Manzanillo, Col. Manzanillo, Col. Manzanillo, Col. Manzanillo, Col. Socorro Is. Cabo San Lucas Isla Guadalupe Tan Tan Pemba Inhambane Moulmein (Mawlamyine) Akyab (Sittwe)	Kenya Kiribati Kiribati Kiribati Korea, PDR Korea, Republic of Madagascar Madagascar Malaysia Malaysia Maldives Maldives Maldives Maldives Marshall Is. Mauritius Mexico <	/ / / / / 1605 / 343 / 343 / 8070 / 1190 5 465 1716 1172 553 15609 2 2 36222 2 891 2 36222 2 891 2 3 11607 11574 1884 / / 11574 1884 / / 241 / 415 734	/ / KIRI / PUSW / KUAL / KUAL / KUAL / KUAL / MAID ADDU MAJU KW11 RDRG VACS ACYA PROX MERI VRCX OXUM MANZ MNZO UCOM TMMZ / / GUAX / PMBA INHB /	/ / / / / / / / / / / / / / / / / / /	/ / / / Y N / / / N / / N / N N N N N N
8 146 145 113 307 84 271 15 293 43 228 112 111 19 18 207 112 111 19 163 163 163 160 282 11 10 141 37 314	Mombasa Christmas Is., Line Is. Kanton Is., Phoenix Is. Tarawa, Gilbert Is. Won San Pusan Fort Dauphin (Taolanaro) Nosy-Be Chendering/Kuala Terengganu Pengkalan TLDM Lumut Male Gan Majuro Kwajalein Rodrigues, Port Mathurin Port Louis Harbour Acapulco, Gro. Progreso, Yuc. Veracruz, Ver. Puerto Angel Manzanillo, Col. Manzanillo, Col. Manzanillo, Col. Manzanillo, Col. Socorro Is. Cabo San Lucas Isla Guadalupe Tan Tan Pemba Inhambane Moulmein (Mawlamyine) Akyab (Sittwe) Walvis Bay	Kenya Kiribati Kiribati Kiribati Korea, PDR Korea, Republic of Madagascar Madagascar Malaysia Malaysia Maldives Maldives Maldives Maldives Maldives Maldives Marshall Is. Mauritius Mexico Morocco Mozambique Myanmar Mainibia	/ / / / / 1605 / 343 / 343 / 8070 / 1190 5 465 1716 1172 553 15609 2 465 1716 1172 553 15609 2 2 36222 2 2 891 2 3 311607 11574 1884 / / / 11574 1884 / / / 415 734 / / / / / / / / / / / / / / / / / / /	/ / / KIRI / PUSW / KUAL / KUAL / HULE MALD ADDU MAJU KW11 RDRG VACS ACYA PROX MERI VRCX OXUM MANZ MNZO UCOM TNMZ MZNC / / <	/ / / Y / / / / Y <t< td=""><td>/ / / / Y / N / / N / N / N N N N N N N</td></t<>	/ / / / Y / N / / N / N / N N N N N N N
8 146 145 113 307 84 271 15 293 43 227 112 111 19 18 267 212 164 163 162 161 162 11 10 141 37	Mombasa Christmas Is., Line Is. Kanton Is., Phoenix Is. Tarawa, Gilbert Is. Won San Pusan Fort Dauphin (Taolanaro) Nosy-Be Chendering/Kuala Terengganu Pengkalan TLDM Lumut Male Gan Majuro Kwajalein Rodrigues, Port Mathurin Port Louis Harbour Acapulco, Gro. Progreso, Yuc. Progreso, Yuc. Progreso, Yuc. Veracruz, Ver. Puerto Angel Manzanillo, Col. Manzanillo, Col. Manzanillo, Col. Manzanillo, Col. Manzanillo, Col. Manzanillo, Col. Socorro Is. Cabo San Lucas Isla Guadalupe Tan Tan Pemba Inhambane Moulmein (Mawlamyine) Akyab (Sittwe)	Kenya Kiribati Kiribati Kiribati Korea, PDR Korea, Republic of Madagascar Madagascar Malaysia Malaysia Maldives Maldives Maldives Maldives Marshall Is. Mauritius Mexico <	/ / / / / 1605 / 343 / 343 / 8070 / 1190 5 465 1716 1172 553 15609 2 2 36222 2 891 2 36222 2 891 2 3 11607 11574 1884 / / 11574 1884 / / 241 / 415 734	/ / KIRI / PUSW / KUAL / KUAL / KUAL / KUAL / MAID ADDU MAJU KW11 RDRG VACS ACYA PROX MERI VRCX OXUM MANZ MNZO UCOM TMMZ / / GUAX / PMBA INHB /	/ / / / / / / / / / / / / / / / / / /	/ / Y N / / N / N Y N Y N N Y N N N N N

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<u>128</u>	Chatham Is.	New Zealand	649	CHAT	Y	Y
	Chatham Is.	New Zealand	24183	CHTI	Y	Ν
	Chatham Is.	New Zealand	17932	OWNG	Y	Ν
	Chatham Is.	New Zealand	17900	OWMG	Y	N
<u>127</u>	Auckland-Waitemata Hbr.	New Zealand	49	AUKT	Y	N
	Auckland-Waitemata Hbr.	New Zealand	27363	AUCK	Y	N
	Auckland-Waitemata Hbr.	New Zealand	5	TAKL	Y	N
<u>101</u>	Wellington	New Zealand	1248	WEL1	Y	N
	Wellington	New Zealand	1248	WEL2	Y	N
	Wellington	New Zealand	634	WGTT	Y	Y
	Wellington	New Zealand	4814	WGTN	Y	N
259	Lagos	Nigeria	10800	ULAG	Y	Ν
118	Saipan	North Mariana Is.	827	CNMR	Y	N
345	Ny Alesund	Norway	1747	NYA1	Ŷ	N
<u> 141</u>	Ny Alesund		1552		Y	
	,	Norway		NYAL		N
	Ny Alesund	Norway	1747	NYAC	Y	N
	Ny Alesund	Norway	1700	NYA2	Y	N
<u>323</u>	Vardo	Norway	5079	VARS	Y	N
	Vardo	Norway	2	VAR1	Y	N
322	Andenes	Norway	46	AND1	Y	N
<u>321</u>	Tregde	Norway	2	TGDE	Y	N
<u>234</u>	Rorvik	Norway	802	VIKC	Y	N
4	Salalah	Oman	/	/	/	/
295	Gwader	Pakistan	/	/	/	/
30	Karachi, Manoro Island	Pakistan	/	/	/	/
208	Coco Solo	Panama	6734	ACP1	Ý	, N
168	Balboa	Panama	4639	IGN1	Ý	N
	Lombrum (Manus)	Panama Papua New Guinea	873	PNGM	Y	Y
<u>331</u>	, ,		0/3		r	T
272	Daru	Papua New Guinea				
<u>65</u>	Rabaul	Papua New Guinea	1415	RVO_	Y	N
<u>63</u>	Alotau	Papua New Guinea		/		
<u>173</u>	Callao (La Punta)	Peru	1432	CALL	Y	Ν
<u>73</u>	Manila, South Harbor	Philippines	1769	MANL	Y	Y
	Manila, South Harbor	Philippines	12543	PIMO	Y	Y
	Manila, South Harbor	Philippines	9568	PTAG	Y	N
	Manila, South Harbor	Philippines	9615	PTGG	Y	Ν
72	Legaspi, Albay	Philippines	3495	PLEG	N	N
71	Davao, Davao Gulf	Philippines	4923	PDAV	N	Ν
70	Jolo, Sulu	Philippines	/	1	1	1
250	Funchal (Madeira)	Portugal	880	FUNC	Y	/ N
246	Cascais	Portugal	273	CASC	Y	Y
245		Portugal	1636	PDEL	Y	Y
245	Ponta Delgado, Azores	Portugai	1030	PDEL	ř	ř
244	Santa Cruz del Flores (Azores)	Portugal	158	EL DC	N.	
24.2			5040	FLRS	Y	N
313	Tiksi	Russia	5949	TIXI	Y	N
<u>312</u>	Dikson	Russia	/		/	
<u>309</u>	Providenya	Russia	/	/	/	/
<u>274</u>	Murmansk	Russia	/	/	/	/
231	Barentsburg (Spitsbergen)	Russia	/	/	/	/
<u>99</u>	Russkaya Gavan	Russia	/	/	/	/
<u>98</u>	Port Tuapse, Black Sea	Russia	95	TUAP	Y	N
<u>97</u>	Kaliningrad	Russia	/	/	/	/
<u>93</u>	Petropavlovsk-Kamchatsky	Russia	737	PETS	Y	N
<u>93</u>	Petropavlovsk-Kamchatsky	Russia	6258	PETP	Y	Ν
92	Nagaevo Bay	Russia	4151	MAG0	Y	Ν
90	Yuzhno Kurilsk	Russia	/	/	/	/
25	Mirny (Antarctica)	Russia	/	/	/	/
260	Sao Tome	Sao Tome & Principe	441	STMP	Y	N
253	Dakar	Senegal	3765	DAKA	Y	Y
	Dakar	Senegal	4885	DAKA	Y	N
339		-	287		Y Y	N N
222	Pointe La Rue	Seychelles		SEYG SEV1	Y Y	
	Pointe La Rue	Seychelles	5548	SEY1		N
44		Singapore	5114		Y	N
	Keppel Harbour			NTUS		
<u>66</u>	Honiara	Solomon Is.	507	SOLO	Y	Y
<u>66</u> <u>7</u>	Honiara Mogadishu	Solomon Is. Somalia	507 /	SOLO	/	Y /
	Honiara	Solomon Is.	507	SOLO		
7	Honiara Mogadishu	Solomon Is. Somalia	507 /	SOLO	/	
<u>7</u> 6	Honiara Mogadishu Hafun (Dante)	Solomon Is. Somalia Somalia	507 / /	SOLO / /	/	///////////////////////////////////////
7 6 268	Honiara Mogadishu Hafun (Dante) Simonstown	Solomon Is. Somalia Somalia South Africa	507 / / 2	SOLO / / SIMO	/ / Y	/ / Y
7 6 268	Honiara Mogadishu Hafun (Dante) Simonstown Port Elizabeth	Solomon Is. Somalia Somalia South Africa South Africa	507 / / 2 2859	SOLO / SIMO PELB	/ / Y Y	/ / Y N
<u>7</u> <u>6</u> <u>268</u> <u>76</u>	Honiara Mogadishu Hafun (Dante) Simonstown Port Elizabeth Port Elizabeth	Solomon Is. Somalia Somalia South Africa South Africa South Africa	507 / / 2 2859 2875	SOLO / / SIMO PELB PLBA	/ / Y Y Y	/ / Y N N
7 6 268 76 20	Honiara Mogadishu Hafun (Dante) Simonstown Port Elizabeth Port Elizabeth Marion Is. Durban	Solomon Is. Somalia Somalia South Africa South Africa South Africa South Africa South Africa	507 / 2 2859 2875 10 12330	SOLO / SIMO PELB PLBA MARN DRBN	/ / Y Y Y Y	/ / Y N N Y
<u>7</u> <u>6</u> <u>268</u> <u>76</u> <u>20</u> <u>13</u>	Honiara Mogadishu Hafun (Dante) Simonstown Port Elizabeth Port Elizabeth Marion Is. Durban Durban	Solomon Is. Somalia Somalia South Africa	507 / 2 2859 2875 10 12330 3697	SOLO / SIMO PELB PLBA MARN DRBN DRBN DRBA	/ Y Y Y Y Y Y Y	/ / Y N Y N N
<u>7</u> <u>6</u> <u>268</u> <u>76</u> <u>20</u> <u>13</u> <u>251</u>	Honiara Mogadishu Hafun (Dante) Simonstown Port Elizabeth Port Elizabeth Marion Is. Durban Durban Las Palmas, Canary Is.	Solomon Is.SomaliaSomaliaSouth AfricaSouth Africa	507 / 2 2859 2875 10 12330 3697 1	SOLO / SIMO PELB PLBA MARN DRBN DRBN DRBA PLUZ	/ Y Y Y Y Y Y Y	/ Y N Y N N Y Y
<u>7</u> <u>6</u> <u>268</u> <u>76</u> <u>20</u> <u>13</u>	Honiara Mogadishu Hafun (Dante) Simonstown Port Elizabeth Port Elizabeth Marion Is. Durban Durban Las Palmas, Canary Is. Ceuta (Spanish N. Africa)	Solomon Is. Somalia South Africa South Africa South Africa South Africa South Africa South Africa South Africa Spain Spain	507 / 2 2859 2875 10 12330 3697 1 560	SOLO / SIMO PELB PLBA MARN DRBN DRBA PLUZ CEUT	/ Y Y Y Y Y Y Y	/ Y N N Y N Y Y
7 6 268 76 20 13 251 249	Honiara Mogadishu Hafun (Dante) Simonstown Port Elizabeth Port Elizabeth Marion Is. Durban Durban Las Palmas, Canary Is. Ceuta (Spanish N. Africa)	Solomon Is. Somalia Somalia South Africa Spain Spain	507 / 2 2859 2875 10 12330 3697 1 560 840	SOLO / SIMO PELB PLBA MARN DRBN DRBA PLUZ CEUT CEU1	/ Y Y Y Y Y Y Y Y Y	/ Y N N Y N Y Y Y
Z 6 268 76 20 13 251 249 243	Honiara Mogadishu Hafun (Dante) Simonstown Port Elizabeth Port Elizabeth Marion Is. Durban Durban Las Palmas, Canary Is. Ceuta (Spanish N. Africa) Ceuta (Spanish N. Africa) La Coruna	Solomon Is.SomaliaSomaliaSouth AfricaSouth AfricaSpainSpainSpainSpainSpain	507 / 2 2859 2875 10 12330 3697 1 560 840 478	SOLO / SIMO PELB PLBA MARN DRBN DRBA PLUZ CEUT CEU1 ACOR	/ Y Y Y Y Y Y Y Y Y	/ Y N Y Y N N Y Y Y Y
Z 6 268 76 20 13 251 249 243 33	Honiara Mogadishu Hafun (Dante) Simonstown Port Elizabeth Port Elizabeth Marion Is. Durban Durban Las Palmas, Canary Is. Ceuta (Spanish N. Africa) Ceuta (Spanish N. Africa) La Coruna Colombo	Solomon Is. Somalia Somalia South Africa Spain Spain	507 / 2 2859 2875 10 12330 3697 1 560 840 478 5303	SOLO / SIMO PELB PLBA MARN DRBN DRBA PLUZ CEUT CEUT CEU1 ACOR SGOC	/ Y Y Y Y Y Y Y Y Y Y Y	/ Y N Y N N Y Y Y N Y N
7 6 268 76 20 13 251 249 243	Honiara Mogadishu Hafun (Dante) Simonstown Port Elizabeth Port Elizabeth Marion Is. Durban Durban Las Palmas, Canary Is. Ceuta (Spanish N. Africa) Ceuta (Spanish N. Africa) La Coruna	Solomon Is.SomaliaSomaliaSouth AfricaSouth AfricaSpainSpainSpainSpainSpain	507 / 2 2859 2875 10 12330 3697 1 560 840 478	SOLO / SIMO PELB PLBA MARN DRBN DRBA PLUZ CEUT CEU1 ACOR	/ Y Y Y Y Y Y Y Y Y Y Y	/ Y N Y Y N N Y Y Y Y
Z 6 268 76 20 13 251 249 243 33	Honiara Mogadishu Hafun (Dante) Simonstown Port Elizabeth Port Elizabeth Marion Is. Durban Durban Las Palmas, Canary Is. Ceuta (Spanish N. Africa) Ceuta (Spanish N. Africa) La Coruna Colombo	Solomon Is. Somalia Somalia South Africa Spain Spain	507 / 2 2859 2875 10 12330 3697 1 560 840 478 5303	SOLO / SIMO PELB PLBA MARN DRBN DRBA PLUZ CEUT CEUT CEU1 ACOR SGOC	/ Y Y Y Y Y Y Y Y Y Y Y	/ Y N Y N N Y Y Y N Y N
<u>7</u> <u>6</u> <u>268</u> <u>76</u> <u>13</u> <u>251</u> <u>249</u> <u>243</u> <u>33</u> <u>341</u>	Honiara Mogadishu Hafun (Dante) Simonstown Port Elizabeth Port Elizabeth Marion Is. Durban Las Palmas, Canary Is. Ceuta (Spanish N. Africa) Ceuta (Spanish N. Africa) La Coruna Colombo Stockholm	Solomon Is. Somalia Somalia South Africa Spain Spain Spain Sri Lanka Sweden	507 / 2 2859 2875 10 12330 3697 1 560 840 478 5303 373	SOLO / SIMO PELB PLBA MARN DRBN DRBA PLUZ CEUT CEUT CEU1 ACOR SGOC OMOS	/ Y Y Y Y Y Y Y Y Y Y Y	/ Y N N Y N N Y Y N Y N N N N
Z 6 268 76 20 13 251 243 33 341 233	Honiara Mogadishu Hafun (Dante) Simonstown Port Elizabeth Port Elizabeth Marion Is. Durban Las Palmas, Canary Is. Ceuta (Spanish N. Africa) Ceuta (Spanish N. Africa) La Coruna Colombo Stockholm Goteborg-Torshamnen	Solomon Is. Somalia Somalia South Africa Spain Spain Spain Sri Lanka Sweden Sweden	507 / 2 2859 2875 10 12330 3697 1 560 840 478 5303 373 7522	SOLO / SIMO PELB PLBA MARN DRBN DRBA PLUZ CEUT CEU1 CEU1 ACOR SGOC OMOS OBIS	/ Y Y Y Y Y Y Y Y Y Y Y Y Y	/ Y N N Y N Y Y N Y N N N N
Z 6 268 76 20 13 251 249 243 33 341 233 297	Honiara Mogadishu Hafun (Dante) Simonstown Port Elizabeth Port Elizabeth Marion Is. Durban Las Palmas, Canary Is. Ceuta (Spanish N. Africa) Ceuta (Spanish N. Africa) La Coruna Colombo Stockholm Goteborg-Torshamnen Zanzibar	Solomon Is.SomaliaSomaliaSomaliaSouth AfricaSouth AfricaSouth AfricaSouth AfricaSouth AfricaSouth AfricaSouth AfricaSpainSpainSpainSpainSpainSpainSpainSpainSwedenSwedenTanzania	507 / 2 2859 2875 10 12330 3697 1 560 840 478 5303 373 7522 7337	SOLO / SIMO PELB PLBA MARN DRBN DRBA PLUZ CEUT CEUT CEU1 ACOR SGOC OMOS OBIS ZNZB	/ Y Y Y Y Y Y Y Y Y Y Y Y Y	/ Y N N Y N Y Y N Y N N N N N
Z 6 268 76 20 13 251 249 243 33 341 233 297	Honiara Mogadishu Hafun (Dante) Simonstown Port Elizabeth Port Elizabeth Marion Is. Durban Las Palmas, Canary Is. Ceuta (Spanish N. Africa) Ceuta (Spanish N. Africa) La Coruna Colombo Stockholm Goteborg-Torshamnen Zanzibar	Solomon Is.SomaliaSomaliaSomaliaSouth AfricaSouth AfricaSouth AfricaSouth AfricaSouth AfricaSouth AfricaSpainSpainSpainSpainSpainSpainSpainSvedenSwedenTanzaniaTanzania	507 / 2 2859 2875 10 12330 3697 1 560 840 478 5303 373 7522 7337 93	SOLO / SIMO PELB PLBA MARN DRBN DRBA PLUZ CEUT CEUT CEUT CEU1 ACOR SGOC OMOS OBIS ZNZB MTWA	/ / Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	/ Y N N Y N Y Y Y N Y N N N N N

<u>125</u>	Tongatapu	Tonga	777	TONG	Y	Y
<u>203</u>	Port of Spain	Trinidad and Tobago	12902	TTUW	Y	N
<u>121</u>	Funafuti, Ellice Is.	Tuvalu	2540	TUVA	Ŷ	Y
305	Stanley, Falklands/Malvinas	U.K.	4106	FALK	Ŷ	N
266	Edinburgh, Tristan da Cunha	U.K.	/	/	/	/
264	St. Helena	U.K.	6003	STHL	Ý	N
263	Ascension	U.K.	3872	ASC1	Y	Y
	Ascension	U.K.	9266	ASCG	Y	Y
<u>248</u>	Gibraltar	U.K.	5	GIBR	Y	N
<u>241</u>	Newlyn	U.K.	5	NEWL	Y	Y
<u>238</u>	Stornoway	U.K.	2	SWTG	Y	Y
<u>236</u>	Lerwick	U.K.	2	LWTG	Y	Y
<u>221</u>	Bermuda, St. Georges Is.	U.K.	684	BRMU	Y	Y
	Bermuda, St. Georges Is.	U.K.	706	BRSG	Y	Y
<u>188</u>	Faraday, Argentine Islands	U.K.	731	VNAD	Y	N
<u>187</u>	South Georgia	U.K.	1927	KEPA	Y	N
<u>26</u>	Diego Garcia Is.	U.K.	3402	DGAV	Y	N
	Diego Garcia Is.	U.K.	65	DGAR	Y	N
<u>342</u>	Rothera	U.K.	118	ROTH	Y	Y
<u>302</u>	Adak, Aleutian Is.	U.S.A.	2030	AB21	Y	Y
<u>149</u>	Apra Hbr, Guam, Marianas	U.S.A.	19495	GUAM	Y	N
220	Apra Hbr, Guam, Marianas	U.S.A.	871	GUUG	Y	N
<u>220</u>	Atlantic City, NJ	U.S.A.	16313	NJGT	Y	N
210	Duck, N.C.	U.S.A.	400	DUCK	Y	N
219	Duck, N.C.	U.S.A.	189	NCDU	Y Y	N
289 107	Fort Pulaski, GA	U.S.A.	12447	GASK	Y /	N
<u>107</u> 217	French Frigate Shoals, H	U.S.A. U.S.A.	5928	GAL1	/ Y	/ N
<u>21/</u>	Galveston (Pier 21), TX Galveston (Pier 21), TX	U.S.A.	2851	TXGA	Y	N
	Galveston (Pier 21), TX	U.S.A.	1	TXGA	Y	N
287	Hilo, Hawaiian Is.	U.S.A.	2120	HILO	Y	N
207	Hilo, Hawaiian Is.	U.S.A.	2524	HILR	Y	N
	Honolulu, Hawaiian Is.	U.S.A.	2	HNLC	Ŷ	Y
108	Honolulu, Hawaiian Is.	U.S.A.	5924	ZHN1	Ŷ	N
109	Johnston Is., Hawaiian Is.	U.S.A.	/	/	/	/
	Key West, FL	U.S.A.	595	CHIN	Ý	N
216	Key West, FL	U.S.A.	5414	KWST	Y	N
	Key West, FL	U.S.A.	15917	KYW1	Y	N
	Key West, FL	U.S.A.	15917	KYW5	Y	N
<u>159</u>	La Jolla (Scripps Pier) CA	U.S.A.	670	SIO3	Y	N
	La Jolla (Scripps Pier) CA	U.S.A.	3064	SIO5	Y	N
	La Jolla (Scripps Pier) CA	U.S.A.	3	SPW2	Y	N
<u>106</u>	Midway Is, Hawaiian Is.	U.S.A.	10	WQSI	Y	N
<u>290</u>	Newport, RI	U.S.A.	500	NPRI	Y	N
<u>74</u>	Nome	U.S.A.	8302	AB11	Y	N
<u>144</u>	Pago Pago, American Samoa	U.S.A.	7069	ASPA	Y	N
<u>288</u>	Pensacola, FL	U.S.A.	7547	PCLA	Y	N
	Prudhoe Bay, AK	U.S.A.	7670	DSL1	Y	N
<u>151</u>	Prudhoe Bay, AK	U.S.A.	17495	PBOC	Y	Ν
<u>158</u>	San Francisco, CA	U.S.A.	6641	PBL1	Y	N
	San Francisco, CA	U.S.A.	14170	SBRB	Y	N
	San Francisco, CA	U.S.A.	14210	SBRN	Y	N
	San Francisco, CA	U.S.A.	9534	TIBB	Y	N
	San Francisco, CA	U.S.A.	4864	UCSF	Y	N
	San Juan, Puerto Rico	U.S.A.	9455 9661	BYSP	Y Y	N N
206	San Juan, Puerto Rico San Juan, Puerto Rico	U.S.A. U.S.A.	9661	ZSU1	Y	
100	Sand Point, AK	U.S.A.	2579	ZSU4 AB07	Y Y	N N
<u>100</u> 150	Seward, AK	U.S.A.	2579	AB07	ř /	/
150	Sitka, AK	U.S.A.	24878	BIS1	Y	/ N
<u></u>	Sitka, AK	U.S.A.	24878	BISS	Y	N
	Sitka, AK	U.S.A.	24948	BIS6	Y	N
157	South Beach, OR	U.S.A.	4628	NEWP	Y	N
	South Beach, OR	U.S.A.	462	ORSB	Ŷ	N
102	Unalaska, Aleutian Is. AK	U.S.A.	431	AV09	Y	N
332	Virginia Keys	U.S.A.	476	AOML	Y	Y
	Virginia Keys	U.S.A.	653	MIA3	Y	Y
	Virginia Keys	U.S.A.	387	SA20	Y	N
105	Wake Is., Marshall Is.	U.S.A.	32	WQSL	Y	N
300	Montevideo	Uruguay	1698	UYMO	Y	N
348	Vanuatu	Vanuatu	1488	VANU	Y	Y
	Vanuatu	Vanuatu	1015	PTVL	Y	Ν
328	La Guaira	Venezuela	/	/	/	/
75	Qui Nhon	Viet Nam	/	/	/	/
<u></u>						