ROYAL OBSERVATORY, HONG KONG

Technical Note (Local) No. 59

PRELIMINARY ANALYSIS OF WIND DATA RECORDED BY AUTOMATIC WEATHER STATIONS IN HONG KONG

by

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SUMMARY

A total of 23 automatic weather stations (AWS) has been set up in Hong Kong during the past few years. These stations have provided comprehensive information of the wind conditions in Hong Kong. The longest duration of these records has accumulated to about 4 to 5 years.

Comparison of the data collected with that collected by conventional methods shows that the AWS are reliable. Climatological analyses of data were carried out following the conventional methods.

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1. INTRODUCTION

During the years 1984 to 1989, a total of 23 automatic weather stations (AWS) was set up at different locations in Hong Kong. Wind measurements are taken at all these stations. At some of these stations other meteorological elements are also measured. The AWS data are telemetered to the Royal Observatory Headquarters on a real-time basis and are utilized operationally. A system of quality checks is implemented on a non real-time basis. The data are then input and stored on magnetic tapes. This network of automatic stations provides simultaneous records of wind information useful for studying the wind distribution over Hong Kong. This network of automatic stations together with the conventional stations thus provide a comprehensive view of the wind flow in Hong Kong.

This preliminary study has three objectives: firstly, to provide information on availability of surface wind data in Hong Kong; secondly, as a preliminary analysis, to evaluate the reliability of wind data of AWS by comparison with conventional data; and lastly, to compile wind statistics for some of the automatic stations with records for at least a year.

2. WIND STATIONS IN HONG KONG

(a) Instrumentation

Different types of anemometers are used in Hong Kong to measure winds at the AWS. They are :

(i) Meteorological Office Mk 4 or 5 cup anemometers manufactured by R.W. Munro Ltd. They are widely used in Hong Kong.

(ii) Teledyne Geotech WS201 cup anemometers used at many of the AWS.

(iii) Yokogawa wind transmitter used at Hong Kong International Terminals.

(iv) Gill propeller anemometers manufactured by R.M. Young Co. used in the network of anemometers on Tsing Yi. These are three-dimensional anemometers which sample wind speeds along the east-west, north-south as well as the vertical directions.

(v) Dines pressure tube anemograph used as backup at Waglan Island. (The anemograph was replaced by an Teledyne anemometer in August 1989).

(b) Station background and topography

During the years 1984 to 1989, several AWS were set up and some of the existing wind stations were automated. A brief description of each of these stations is given below.

(i) THE ROYAL OBSERVATORY AWS (RO) : anemometer 72 m above MSL

The Royal Observatory Headquarters' anemometer was automated in July 1984. While conventional wind data recorded with a Mk4 cup-generator anemometer and vane installed on top of a mast near the western end of the RO compound are still used as the official record, direct read-outs of gusts and one minute winds from the same sensor are also available as AWS data. A stand-by Mk4 cup-generator anemometer and vane is also erected on the roof top of the Royal Observatory Centenary Building.

Details of topography around RO are listed on page 15 in Royal Observatory Technical Note No. 41.

(ii) SHA TIN AWS (SHA) : anemometer 16 m above MSL

The station was originally located on the racecourse about 1 km southwest of Sha Tin Hoi. It is surrounded by sloping hills on three sides but is most exposed to the northeast.

No data are available from 1400H 6 February to 1630H 11 March 1985 during which all instruments were resited to the present exercise area about 50 m away from the original site.

The high hills around the stations are :

Ma On Shan	(702 m)	5 km to E
West Buffalo Hill	(604 m)	4 km to SE
Beacon Hill	(452 m)	7 km to SW
Tai Mo Shan	(957 m)	9 km to W
Needle Hill	(532 m)	5 km to WSW
Grassy Hill	(645 m)	4 km to WNW
Kau To Shan	(399 m)	1.8 km to WNW

(iii) CHEK LAP KOK AWS (CLK) : anemometer 65 m above MSL

The station is located on the northern side of the island. A manned station was set up in June 1979 but was destroyed by Typhoon Ellen in September 1983. An automatic station was set up in September 1984 at the same location.

The station is most exposed from west to northwest and also east-northeast. The high hills around the station are :

Castle Peak	(583 m)	8 km to N
Hill on Lantau	(465 m)	6 km to ESE
Sunset Peak	(869 m)	7 km to S
Lantau Peak	(934 m)	8 km to SSW
Hill on Chek Lap Kok	(121 m)	1.6 km to SW
Nei Lak Shan	(751 m)	7 km to SSW

(iv) HONG KONG INTERNATIONAL TERMINALS AWS (HIT) : anemometer 45 m above MSL

An anemometer had already been installed at HIT before the AWS was in operation. In May 1985, the instrument was converted to an automatic station to relay real-time data back to the Royal Observatory.

A new building was constructed adjacent to the anemometer since July 1987. The anemometer was subsequently resited on 11 May 1988 away from the building.

The station is most exposed to the south and southwest with a range of hills from northeast to northwest. The high hills around the station are :

Tai Mo Shan	(957 m)	8 km to N
Beacon Hill	(452 m)	4 km to E
Hill on Tsing Yi	(334 m)	3 km to WSW
Ha Fa Shan	(474 m)	6 km to NW

(v) LAU FAU SHAN AWS (LFS) : anemometer 50 m above MSL

The station is situated about 5 km from Yuen Long and is adjacent to Hau Hoi Wan. Fish ponds are located to the immediate east of the station and the nearest hills are located to the south-southwest. Therefore, the station is most exposed to the west and north.

The high hills around the station are :

Kai Keung Leng	(572 m)	10 km to E
Castle Peak	(583 m)	9 km to SSW
Hill near Tuen Mun	(350 m)	7 km to SSW

(vi) TA KWU LING AWS (TKL) : anemometer 28 m above MSL

The station is situated at a Government farm about 4 km northeast of Sheung Shui. The farm is a pig breeding centre on a 5 ha lot of land. The land is undulating and about half of the area is used for growing fruit trees of about 10m high and the rest for raising livestock. There are hills to the east,

southeast and southwest and the highest peak is 511 m to the southeast.

The high hills near the stations are :

Wong Mau Hang Shan	(245 m)	3 km to NE
Wo Kang Shan	(280 m)	2 km to ENE
Kwa Tau Leng	(486 m)	4 km to ESE
Pat Sin Leng	(511 m)	9 km to SE
Ma Tau Leng	(164 m)	2 km to SSW

(vii) MOBIL OIL DEPOT AWS (MBL), HONG KONG UNITED DOCKYARDS AWS (HUD) and CHING PAK HOUSE AWS (CPH)

The three stations form a network of anemometers on Tsing Yi Island. Although data have been available since August 1986, the network was not declared operational till April 1987. A range of hills are situated to the north of the stations.

The high hills around the stations are :

MBL : (anemometer 18 m above MSL)

Tai Mo Shan	(957 m)	8 km to NNE
Beacon Hill	(452 m)	6 km to E
Hill on Tsing Yi	(334 m)	1 km to WSW
Shek Lung Keng	(473 m)	5 km to NNW

HUD : (anemometer 43 m above MSL)

Hill on Tsing Yi	(334 m)	2 km to SE
Tai Mo Shan	(957 m)	8 km to NNE
Beacon Hill	(452 m)	9 km to E
Shek Lung Keng	(473 m)	4 km to N

CPH : (anemometer 136 m above MSL)

Hill on Tsing Yi	(334 m)	1.6 km to SSW
Tai Mo Shan	(957 m)	7 km to NNE
Beacon Hill	(452 m)	6 km to E
Shek Lung Keng	(473 m)	4 km to NW

(viii) TUEN MUN AWS (TUN) : anemometer 68 m above MSL

The station is situated on the roof top of Tuen Mun Government Offices Building. It is sheltered to the east and west by mountains and most exposed to the north-northeast and the south.

The high hills around the station are :

Hill near Yuen Long	(297 m)	5 km to NE
Hill near Tuen Mun	(507 m)	2 km to E
Castle Peak	(583 m)	2 km to W

(ix) CHEUNG SHA WAN AWS (CSW) : anemometer 30 m above MSL

The station is situated at the Cheung Sha Wan Vegetable Wholesale Market. It is exposed to the south and southwest except being slightly blocked by Stonecutters Island. However, it is sheltered from the north by a range of hills. The high hills around the station are :

Tai Mo Shan	(957 m)	9 km to NNW
Beacon Hill	(452 m)	2 km to NE
Hill on Tsing Yi	(334 m)	5 km to W
Ha Fa Shan	(474 m)	9 km to NW

(x) TAMAR (TMR) : anemometer 15 m above MSL

The station is situated at the Headquarters of the British Forces on the northern side of Hong Kong Island. The anemometer is obstructed to the southwest by a tall building and occasionally to the north by docked ships. The high hills near the station are :

Mount Gough	(479 m)	1.6 km to SSW
Mount Cameron	(439 m)	2 km to SSE
Victoria Peak	(554 m)	2 km to WSW

(xi) TATE'S CAIRN (TC) : anemometer 588 m above MSL

The station is located on the top of Tate's Cairn about 575 m above mean sea level. Although wind data started to be telemetered to the Royal Observatory since December 1987, manual wind observations continued to be taken at Tate's Cairn and entered onto weather log books. Chart recordings of the wind conditions were also available. Further details of the station could be found on page 40 of Royal Observatory Technical Note No. 41.

(xii) TAI MO SHAN (TMS) : anemometer 969 m above MSL

The station is situated on the highest mountain in Hong Kong. There is no obstruction to the anemometer in any direction. Chart recordings of the wind conditions were also displayed in the Central Forecasting Office at the Royal Observatory besides the digital data received through the AWS network.

(xiii) WAGLAN ISLAND (WL/WGL) : anemometer 75 m above MSL

The station was fully automated on 22 August 1989 with the Mark IV anemometer replaced by a Teledyne anemometer. The stand-by pressure tube anemometer was also replaced by another Teledyne anemometer. Chart recorders were installed both at Waglan Island and the Central Forecasting Office at the Royal Observatory. Details of the station before automation can be found on page 12 of Royal Observatory Technical Note No. 41.

(xiv) STAR FERRY (SF) : anemometer 17 m above MSL

The station is sheltered to the north by the nearby high buildings and thus wind speeds during northerly winds are very light and direction variable. However, the station is well exposed to the east and west. The information is relayed to the Central Forecasting Office by telephone lines. The record began in 1972 and chart recorders were installed at the Central Forecasting Office. The station joined the AWS network in December 1987 and data in both chart and digital form were then available. Further details of the station could be found on page 42 of Royal Observatory Technical Note No. 41.

The five stations -- Tamar, Tate's Cairn, Tai Mo Shan, Waglan Island and Star Ferry were automated in December 1987, with real-time wind information being relayed back to the Royal Observatory, in addition to data collected by conventional methods. Waglan was further automated in August 1989 to take measurements of other meteorological elements in addition to wind.

A list of all the wind measuring stations in Hong Kong is given in Table 1 and the location of the stations are shown in Figures 1(a) and 1(b).

For brevity, stations will be mentioned by their three-letter codes. The codes are listed in Table 1.

3. THE DATA SET

Although 23 AWS were set up between 1984 and 1989, only summaries for 16 of them have been compiled for this report due to the short data period for the rest of the 7 stations. Of the 16 stations, 7 of them were set up in late 1987 and 1988 (see Table 1) providing data for a relatively shorter period. The data periods of all stations start from their operational dates up to the end of December 1988. Thus the data period of each individual station differs, varying from one to four years.

Before being used, wind data from AWS were checked for consistency and reliability. Due to resource constraint, only preliminary checks have been made. Erroneous data were ejected from the analysis.

Computation of mean winds for different averaging periods follows the methods used for conventional stations as far as possible. One-minute wind velocities are available from AWS and are used to compute the hourly prevailing wind directions and mean speeds (ending on the hour) for the present study. Methods of computation can be found in Appendix 3 of Royal Observatory Technical Note No. 75.

Data capture rates for various weather elements vary. For example, in December 1988, data capture rate was as high as 99% for Royal Observatory AWS wind data but as low as 75% for wind data from Hong Kong International Terminals AWS. Missing data often led to complications in interpretating the results. Therefore, tables showing the actual number of days with a particular event should be interpretated with care. In this case, tables showing the percentage of days are more representative.

4. COMPARISON OF AWS DATA AND CONVENTIONAL DATA AT THE ROYAL OBSERVATORY

To compare the AWS data and conventional wind data measured from the same sensor at the Royal Observatory Headquarters is the second objective of this study. In this analysis, 10-minute mean wind directions and speeds for the two-year period from 1987 to 1988 were used. The results were presented in the two-way distribution tables in Tables 2(a)-(d).

It can be seen from the tables that, in general AWS and conventional winds are in good agreement. However, RO AWS appears to slightly underread (by 1 - 2 m/s) wind speeds (see Table 2(d)), especially when wind speeds are 4 m/s or more, but overread wind directions for about 10-20 degrees (see Table 2(a) and 2(c)).

On an hourly basis, the maximum hourly mean wind and maximum gust recorded by RO AWS (1984-88) were 13.9 m/s and 30.5 m/s respectively during Typhoon Tess in 1985. They compare well with the corresponding values of 14.5 m/s and 31.0 m/s recorded by the conventional station. This again proves the reliability of AWS.

5. PRELIMINARY WIND STATISTICS

5(a) Percentage of days and hours with wind speeds exceeding specified limits

The periods of observation for different AWS vary widely and the longest period is only about 4 years. Nevertheless preliminary wind statistics can still be compiled for various stations to provide some information to users in urgent need.

Tables of percentage (tables of actual numbers omitted) of days and/or hours with hourly speeds exceeding specified limits are produced in Tables 3(a) to 3(q). The percentages of days and hours with hourly wind speeds of Force 6 or above at the various AWS are also shown in Figures 2(a) and 2(b).

The percentage of days and hours with hourly mean wind speeds exceeding Beaufort Force 6 clearly shows the effect of topography. TMS reported strong winds (>=11.5 m/s) in nearly half (above 46 %) of the days in a year while it was generally less than 1% in most low-level land stations in a year. The picture is generally the same when percentage of hours is used in the analysis. The percentages of hours exceed 10% in TC and TMS.

5(b) Gust factors of AWS

Gust factors were computed for all the AWS as follows :

(i) Obtain hourly mean wind speeds and hourly gusts from tapes.

(ii) Calculate gust factor for each hourly wind observation.

(iii) Classify gust factors into 12 groups of Beaufort Force 1 to 12 according to the mean hourly wind speed.

(iv) Compute the average of gust factors for each wind group.

Gust factors of all AWS are calculated up to December 1988 (Table 4).

The following results are observed from the gust factor analysis :

1. Gust factors are largest under light wind conditions, and generally decreases with increasing wind speeds. The gust factor reaches a maximum of 8.6 when the mean speed is only Force 1 at SHA and falls to a minimum of 1.3 in the Force 7 and 8 winds at TMS.

2. Urban and sheltered areas such as RO, SHA, TKL, MBL, CPH, TUN, SF and CSW are generally gusty with factors exceeding 1.7 in all wind conditions probably due to high-rise buildings in the vicinity.

3. In off-shore and exposed places such as CLK, LFS, TMS, TC and WL, the gust factors are generally below 1.7 for winds of F4 and above.

4. When gale force winds are blowing (F8-9), the gust factor is constant at around 1.3 to 1.4.

Owing to the relatively short period of observations, classification of gust factors under different wind directions were not computed.

5(c) Wind frequency tables

The total number (Tables 5(a)) to 5(q)) and percentage frequencies (Tables 6(a) to 6(q)) of occurrence of concurrent wind speed and direction were computed. Two sets of tables, one with 10-degree sectors and the other with 30-degree sectors are available. The tables include the monthly ones and also annual ones. However, only the annual ones in 10-degree sectors have been presented here for brevity.

Although the RO AWS started operation in July 1984, wind frequencies for the station could only be calculated for data from February 1985 onwards due to malfunction of the wind direction sensor in the previous months.

Table 7 shows the monthly and annual prevailing wind directions and the corresponding frequencies. The values were derived from the 30 degrees-sector tables.

Much information can be deduced from Table 7. Annually, most stations show prevailing wind directions from the east to northeast while the rest from the southeast. On a monthly basis, there are large fluctuations. Easterlies are prevalent inside the Victoria Harbour and Chek Lap Kok almost throughout the year. SHA, HIT, LFS, MBL, TMS, TC, TMR and WL all show a shift of wind direction from easterly or northeasterly in winter to southeasterly, southerly or southwesterly in summer. Also, the frequencies of easterlies reach a maximum during late winter or early spring and is 73% at Star Ferry.

The easterlies change to westerlies at RO in July. Two of the stations, TKL and TUN, have their wind flow affected by local topography significantly. TKL, situated in the gap between higher mountains to its east-northeast and southeast, has its predominant wind direction from the east-southeast throughout the year. TUN, which is sheltered by mountains on both its eastern and western sides, shows either a northerly or southerly flow in all months. Due to the short period of data in CSW, no conclusion can be deduced for this station.

5(d) Wind roses

Wind roses of the various AWS (Figures 3(a) - 3(q)) were constructed albeit the periods of observation were relatively short.

Figures 4(a) to 4(e) show the annual wind roses for the conventional and automatic stations at RO, CLK, TC, WL and SF.

The annual wind roses for RO and RO AWS (Figure 4(a)) look similar, but the frequency of easterly winds in AWS is greater than that of the conventional station by 16% (48% compared with 32%). This can be explained by the difference in observation periods.

The annual wind rose of CLK and CLK AWS (Figure 4(b)) look almost identical despite different periods and lengths of observation. They both have prevailing winds from the east (28% in conventional and 29% in AWS and all other directions have similar frequencies).

The rest of the stations, TC and TC AWS, SF and SF AWS as well as WL and WL AWS (Figures 4(c) - 4(e)) also show similar results, even though the periods of observation are different. Thus, it can be assumed that the data collected by AWS are comparable to conventional data for general climatological purposes.

5(e) Maximum hourly mean wind speeds and gusts recorded by AWS

The maximum hourly winds and maximum gust recorded at the various stations since first operation are tabulated in Table 8.

The highest value is found at CLK and the lowest at SHA, MBL, HUD, TMR and CSW. The maximum speed of 27.0 m/s and gust of 39.4 m/s at CLK were recorded during Typhoon Tess in September 1985. Most other stations also have their maximum speeds recorded during tropical cyclones.

5(f) Spatial variation of winds in Hong Kong

As pointed out in earlier studies by Chen (1975), under light wind conditions, surface winds in different parts of Hong Kong could vary significantly because of topography. In the present study, the spatial variation of winds in Hong Kong was studied with RO AWS as the reference station. The wind speeds were compared with that of RO when the directions at both stations were the same (divided into four categories : northerly, easterly, southerly and westerly, according to the 8-point compass). Tables of mean wind speeds at various stations corresponding to specified speeds at RO AWS are shown in Tables 9(a) to 9(d).

The method employed is to sum up the speeds of a certain station corresponding to the wind speed at RO AWS (reference station) at intervals of 1 m/s. The sum is then divided by the number of observations to obtain the mean. The tables show that the speeds at exposed AWS exceed that of RO AWS significantly. For example, a mean speed of 7 m/s at RO corresponds to a mean speed of 13 m/s at CLK when winds are from the north at both stations. Of course, individual speeds can fluctuate much from the calculated mean. Correlation coefficients between the mean wind of RO and that of the other stations are generally over 0.9.

As noted by Chen (1975), low speed winds far outnumbered the occurrence of high speed winds as winds of high speeds occurred only rarely. The method of averaging in the present study eliminates the above problem.

6. CONCLUSIONS

Comparison of AWS data with conventional stations at several stations showed that they were in good agreement in general. Thus AWS data from other stations might be treated as reliable sets of wind data under normal circumstances.

Strong winds are rare at sheltered AWS, but frequent at exposed AWS. Gust factors vary significantly at various stations. Despite the effect of topography, wind roses show a predominance in the easterly and northeasterly sector.

The results presented must be used with care and discretion in view of the limited period of data now available. In particular, monthly and annual values may not be representative because all available data were taken in this study and hence the data sets for the AWS may not cover complete years.

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TABLE 1. ANEMOMETER STATIONS AND AVAILABILITY OF WIND DATA IN HONG KONG AS AT 25 SEPTEMBER 1989

STATION NAME	STATION CODE	TYPE OF STATION	TYPE OF ANEMOMETER	HEAD OF ANEMOMETER ABOVE GROUND m	HEAD OF ANEMOMETER ABOVE MSL m	DATE OF FIRST RECORD	DATE OF LAST RECORD	DATA FORMAT	FREQUENCY OF MEAN	FREQUENCY OF GUST	OWNER
BLUFF HEAD	BHD	AWS	WS201	5.0	99.0	Not yet operational		T	Every minute	Every minute	
BLACK POINT	BPT	AWS	WS201	10.0	139.7	Not yet operational		T	Every minute	Every minute	
CHEUNG CHAU	CC	CONVENTIONAL	Mk4 Cup	72	92.1	1/ 1/1953	Present	T,C,L	1T,1E	1E	RO
CHEK LAP KOK	CLK	CONVENTIONAL	Mk4 Cup	10.0	65.2	13/ 6/1979	9/ 9/1983	T,C,L	1T,1E	1E	RO
	CLK	AWS	Mk4 Cup	10.0	65.2	7/ 9/1984	Present	T	Every minute	Every minute	RO
CHING PAK HOUSE	CPH	AWS	WS201	10.9	136.0	1/ 4/1987	Present	T	Every minute	Every minute	RO
CHEUNG SHA WAN	CSW	AWS	WS201	----	29.6	15/ 8/1988	Present	T	Every minute	Every minute	RO
EAST LANTAU	ELN	AWS	WS201	8.0	200.8	Not yet operational		T	Every minute	Every minute	
GREEN ISLAND	GI	CONVENTIONAL	Mk4 Cup	----	89.8	1/ 4/1973	11/ 9/1989	T,C	1T,1E	1E	RO
	GI	AWS	Mk4 Cup	----	89.8	11/ 9/1989	Present	T	Every minute	Every minute	RO
HK INTERNATIONAL TERMINALS	HIT	AWS	Yokogawa	----	45.2	16/ 5/1985	11/ 5/1988	T	Every minute	Every minute	HIT
	HIT	AWS	Yokogawa	----	62.7	11/ 5/1988	Present	T	Every minute	Every minute	HIT
H.K. INTERNATIONAL AIRPORT	HKIA(MID)	CONVENTIONAL	Mk4 Cup	----	14.1	1988	Present	C	---------	---------	RO
	HKIA(NW)	CONVENTIONAL	Mk4 Cup	----	14.2	16/ 6/1948	Present	T,C,L	1T,1E	1E	RO
	HKIA(SE)	CONVENTIONAL	Mk4 Cup	11.9	16.4	20/12/1959	Present	T,C,L	1T,1E	1E	RO
	HKIA(NW)	STANDBY	Mk4 Cup	----	14.2	1985	Present	C	---------	---------	RO
	HKIA(SE)	STANDBY	Mk4 Cup	11.9	16.4	1985	Present	C	---------	---------	RO
HONG KONG SOUTH	HKS	AWS	WS201	----	29.6	1/ 8/1989	Present	T	Every minute	Every minute	RO
HONG KONG UNITED DOCKYARD	HUD	AWS	WS201	9.9	42.9	1/ 4/1987	Present	T	Every minute	Every minute	RO
KOWLOON TSAI	KLT	WD ANALYSER	Mk4 Cup	----	105.0	1979	Present	T	Every 30 sec	Every 30 sec	RO
KING'S PARK	KP	CONVENTIONAL	Mk4 Cup	----	78.1	26/ 3/1971	Present	C,L	51-80 12T 81-88 6T	-----	RO
LAU FAU SHAN	LFS	AWS	Mk4 Cup	10.7	49.7	Dir 17/10/1985 Spd 16/9/1985	Present	T	Every minute	Every minute	RO
LÉI YUE MUN	LYM	WD ANALYSER	Mk4 Cup	----	73.0	1979	Present	T	Every 30 sec	Every 30 sec	RO
MOBIL OIL DEPOT	MBL	AWS	WS201	10.6	17.7	1/ 4/1987	Present	T	Every minute	Every minute	RO
PORT COMMUNICATION CENTRE	PCC	CONVENTIONAL	Mk4 Cup	----	----	3/ 7/1982	1983	T,C	1T,1E	1E	MD
ROYAL OBSERVATORY	RO	CONVENTIONAL	Mk4 Cup	43.8	71.7	1/ 1/1885	Present	T,C,L	1C,1E,1T	1E	RO
	RO	AWS	Mk4 Cup	43.8	71.7	Dir 4/2/1985 Spd 10/7/1984	Present	T	Every minute	Every minute	RO
	RO	STANDBY	Mk4 Cup	----	73.8	1982	Present	---------	---------	---------	RO
STAR FERRY	SF	CONVENTIONAL	Mk4 Cup	14.2	17.0	1972	Present	T,C	1T,1E	1E	RO
	SF	AWS	Mk4 Cup	14.2	17.0	8/12/1987	Present	T	Ever, minute	Every minute	RO
SHA TIN	SHA	AWS	Mk5 Cup	9.8	16.1	1/10/1984	6/ 2/1985	T	Every minute	Every minute	RO
	SHA	AWS	Mk5 Cup	10.1	16.0	11/ 3/1985	Present	T	Every minute	Every minute	RO
SHEK KONG	SK	CONVENTIONAL	Mk4 Cup	----	----	3/10/1983	Present	L	3T,3E	3E	RAF
SHEK KWU CHAU	SKC	AWS	WS201	8.0	195.4	Not yet operational		T	Every minute	Every minute	
TATE'S CAIRN	TC	CONVENTIONAL	Mk4 Cup	12.3	587.5	26/ 2/1962	Present	T,C,L	1T,1E	1E	RO
	TC	AWS	Mk4 Cup	12.3	587.5	8/12/1987	Present	T	Every minute	Every minute	RO

TABLE 1. (cont'd)

STATION NAME	STATION CODE	TYPE OF STATION	TYPE OF ANEMOMETER	HEAD OF ANEMOMETER ABOVE GROUND m	HEAD OF ANEMOMETER ABOVE MSL m	DATE OF FIRST RECORD	DATE OF LAST RECORD	DATA FORMAT	FREQUENCY OF MEAN	FREQUENCY OF GUST	OWNER
TA KWU LING	TKL	AWS	WS201	14.0	27.6	16/ 1/1986	Present	T	Every minute	Every minute	RO
TAMAR	TMR	AWS	WS201	12.0	15.3	8/12/1987	Present	T,C	Every minute	Every minute	RO
TAI MO SHAN	TMS	CONVENTIONAL	Mk4 Cup	23.6	968.6	18/12/1985	Present	T	85-87 1T	1E	RO
	TMS	AWS	Mk4 Cup	23.6	968.6	8/12/1987	Present	T,C	Every minute	Every minute	RO
TAI O	TO	CONVENTIONAL	Mk4 Cup	----	90.3	14/ 3/1975	Present	T,C,L	3T,3E	3E	RO
TAI PO	TPO	AWS	WS201	----	27.6	Not yet operational		T	Every minute	Every minute	RO
TUEN MUN	TUN	AWS	WS201	5.5	68.1	23/10/1987	Present	T	Every minute	Every minute	RO
WAGLAN ISLAND	WL	CONVENTIONAL	Mk4 Cup	19.8	74.7	01/12/1952	22/ 8/1989	T,C,L	53-63 1T 63-88 3T 68-89 3E 75-89 1C	53-63 1E 63-88 3E 75-87 1C 87-89 1E	RO
	WL	AWS	Mk4 Cup	19.8	74.7	8/12/1987	22/ 8/1989	T,C	Every minute	Every minute	RO
	WGL	AWS	WS201	19.8	74.7	22/ 8/1989	Present	T,C	Every minute	Every minute	RO
	WL2	STANDBY	WS201	19.8	74.7	22/ 8/1989	Present	---------	---------	---------	RO
	UW2	STANDBY	WS201	----	74.7	22/ 8/1989	Present	---------	---------	---------	RO
YAU YAT CHUEN	YYC	WD ANALYSER	Mk4 Cup	----	64.0	1979	Present	T	Every 30 sec	Every 30 sec	RO
CAPE COLLINSON	CN	CONVENTIONAL	Dines	----	59.4	1964	1974	T,C,L	1T	1E	RO
CAPE D'AGUILAR	DAG	CONVENTIONAL	Cup	----	14	1971	1981	C	---------	---------	RO
CASTLE PEAK	CP	CONVENTIONAL	Dines	----	24.0	1972	1983	T,C	1T,1E	1E	RO
TSIM BEI TSUI	TBT	CONVENTIONAL	Dines	----	43.7	1975	1986	T,C	1T,1E	1E	RO

Note : Data format T = tape C = chart L = logbook
Frequency C = hourly values centred on the hour
E = hourly values ending on the hour
T = ten-minute mean ending on the hour
Type of records represented by a digit indicating frequency of data followed by a figure indicating the type
For example, 3E means mean wind ending on the hour reported every 3 hourly.

TABLE 2(a). COMPARISON OF WIND BETWEEN THE MANNED AND AUTOMATIC STATION AT THE ROYAL OBSERVATORY : ABSOLUTE DIFFERENCE OF WIND DIRECTIONS

JAN 1987 - DEC 1988

FIGURES INSIDE THE TABLE INDICATE THE TOTAL NUMBER OF OCCURRENCES

ROYAL OBSERVATORY MANNED STATION

10-minute mean wind direction (ending on the hour) in degrees

* ROAWS - RO in degrees	010	020	030	040	050	060	070	080	090	100	110	120	130	140	150	160	170	180
0	68	92	151	80	40	67	151	490	1005	446	110	35	14	16	17	10	19	37
10	128	139	233	182	100	64	165	594	2407	1505	543	104	35	40	43	28	36	129
20	23	38	67	61	50	25	35	66	361	353	175	58	16	3	38	16	23	72
30	3	7	13	8	9	5	5	5	18	10	14	8	6	7	2	8	3	7
40	0	2	6	3	1	1	1	1	1	1	1	4	2	1	1	0	4	4
50	0	0	4	2	1	0	0	0	0	0	0	0	1	1	1	0	1	2
60	1	0	2	1	1	0	0	0	1	0	1	0	0	0	2	1	0	0
70	0	0	1	2	0	0	3	0	0	0	0	1	0	1	0	0	1	0
80	0	3	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
90	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
100	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0

10-minute mean wind direction (ending on the hour) in degrees

* ROAWS - RO in degrees	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	Total
0	21	23	43	46	40	37	38	160	230	68	23	12	3	0	5	3	6	72	3678
10	42	48	79	110	100	77	98	202	487	238	87	28	7	7	9	7	15	47	8131
20	29	23	40	33	36	49	32	25	123	81	61	24	6	5	3	3	2	11	2066
30	4	11	7	6	8	19	12	7	10	5	7	5	1	0	3	0	1	6	250
40	3	3	3	2	3	1	5	5	2	0	0	0	1	1	1	2	0	2	66
50	2	2	3	3	0	0	1	2	2	0	1	0	0	0	0	3	0	1	32
60	1	1	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	16
70	0	0	0	0	1	2	0	0	1	0	0	0	0	0	1	0	0	0	13
80	0	0	0	0	0	2	0	0	1	1	0	0	0	0	0	0	0	1	11
90	0	0	0	1	0	0	0	0	3	0	0	0	0	0	0	0	0	1	9
100	0	0	0	1	0	0	0	0	3	0	0	0	0	0	0	0	0	0	3
110	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
120	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	2
130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	3
170	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	3
180	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	9

Number of direction observations 14292

* Difference of 10-minute mean wind directions between Royal Observatory's automatic and manned stations
ROAWS = ROYAL OBSERVATORY AUTOMATIC WEATHER STATION
RO = ROYAL OBSERVATORY MANNED STATION

TABLE 2(b). COMPARISON OF WIND BETWEEN THE MANNED AND AUTOMATIC STATION AT THE ROYAL OBSERVATORY : DIFFERENCE OF WIND SPEEDS

JAN 1987 - DEC 1988

FIGURES INSIDE THE TABLE INDICATE THE TOTAL NUMBER OF OCCURRENCES

ROYAL OBSERVATORY MANNED STATION

10-minute mean wind speed (ending on the hour) in m/s

* ROAWS - RO in m/s	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	GE20
-15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-5	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
-4	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
-3	0	0	1	2	2	1	2	1	2	0	0	0	0	1	0	0	0	0	0	0
-2	0	21	51	78	123	33	37	17	5	3	0	0	0	0	0	0	0	0	0	0
-1	846	1027	1494	1651	1965	608	224	52	20	4	2	0	1	0	0	0	0	0	0	0
0	1379	2179	1860	1222	671	266	82	19	7	3	0	1	0	0	0	0	0	0	0	0
1	192	140	84	30	19	6	0	1	0	0	0	0	0	0	0	0	0	0	0	0
2	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Number of speed observations 16446

Mean speed of all observations : RO 3.2 AWS 2.8

* Difference of 10-minute mean wind speed between Royal Observatory's automatic and manned stations
ROAWS = ROYAL OBSERVATORY AUTOMATIC WEATHER STATION
RO = ROYAL OBSERVATORY MANNED STATION

GE means greater than or equal to

TABLE 2(c). COMPARISON OF WIND BETWEEN THE MANNED AND AUTOMATIC STATION AT THE ROYAL OBSERVATORY : NUMBER OF OCCURRENCES OF DIFFERENT WIND DIRECTIONS

JAN 1987 - DEC 1988

FIGURES INSIDE THE TABLE INDICATE THE TOTAL NUMBER OF OCCURRENCES

ROYAL OBSERVATORY MANNED STATION

10-minute mean wind direction (ending on the hour) in degrees

R O A W S 10-minute mean wind direction (ending on the hour) in degrees	010	020	030	040	050	060	070	080	090	100	110	120	130	140	150	160	170	180
010	69	122	67	8	1	0	0	0	1	0	1	0	0	0	0	0	0	0
020	16	95	218	61	7	1	0	0	0	0	0	0	0	0	0	0	0	0
030	3	18	153	179	49	5	1	0	0	0	0	0	0	0	0	0	0	0
040	1	4	17	80	98	28	4	1	0	0	0	0	0	0	0	0	0	0
050	0	0	4	6	40	54	33	5	1	1	0	1	0	0	0	0	0	0
060	0	1	1	1	6	67	139	70	17	0	0	0	0	0	0	0	0	0
070	1	0	4	0	1	13	153	566	358	11	1	0	0	1	0	0	0	0
080	0	0	4	1	2	1	30	490	2384	353	11	4	2	0	1	0	1	0
090	0	0	2	0	0	0	6	33	1008	1496	178	8	2	1	1	0	0	0
100	1	3	2	0	0	0	1	2	24	447	543	59	6	0	1	0	1	0
110	0	3	0	2	0	0	0	0	6	9	110	102	16	5	1	0	0	0
120	0	0	0	0	0	0	0	0	1	1	5	35	34	2	2	0	0	0
130	0	0	0	0	0	0	0	0	0	1	1	4	14	36	36	9	4	1
140	0	0	0	0	0	0	0	0	0	1	3	0	1	16	36	14	3	4
150	0	0	0	0	0	0	0	0	1	0	0	1	0	4	17	25	22	6
160	0	0	0	0	0	0	0	0	0	0	0	0	0	1	7	10	32	69
170	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	3	29	111
180	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	4	37
190	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	18
200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
210	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
220	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
230	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
240	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
250	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
260	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
270	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
280	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
290	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
300	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
310	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
320	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
330	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
340	2	1	2	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0
350	22	7	2	2	1	0	0	2	0	0	0	0	0	0	0	0	0	0
360	114	34	12	2	1	0	3	1	0	0	0	0	0	0	0	0	0	0
VARIABLE	41	58	95	58	28	29	22	50	63	42	37	25	18	23	34	30	31	75

R O A W S = ROYAL OBSERVATORY AUTOMATIC WEATHER STATION

to be continued

TABLE 2(c). cont'd

JAN 1987 - DEC 1988

FIGURES INSIDE THE TABLE INDICATE THE TOTAL NUMBER OF OCCURRENCES

ROYAL OBSERVATORY MANNED STATION

10-minute mean wind direction (ending on the hour) in degrees

R O A W S 10-minute mean wind direction (ending on the hour) in degrees	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	VARIABLE
010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0
020	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	6	2
030	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	4	1
040	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
050	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
060	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
070	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
080	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0
090	0	1	0	0	0	0	0	1	2	1	0	0	0	0	0	0	0	0	0
100	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
130	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2
140	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
150	2	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
160	4	3	2	1	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1
170	28	9	6	2	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0
180	38	19	26	1	3	20	0	0	1	0	0	0	0	0	0	0	0	0	1
190	21	40	32	5	7	1	2	0	1	0	0	0	0	0	0	0	0	0	0
200	4	23	30	31	7	8	1	0	1	0	0	0	0	0	0	0	0	0	0
210	1	3	43	95	32	18	13	2	1	0	0	0	0	0	0	0	0	0	0
220	0	4	9	46	91	48	1	6	2	0	0	0	0	0	0	1	0	0	1
230	1	2	8	15	40	68	34	6	2	0	0	0	0	0	0	0	0	0	2
240	1	0	1	2	9	37	55	26	10	0	1	0	0	0	0	0	0	0	5
250	1	0	1	1	4	9	39	19	12	0	0	0	0	0	0	0	0	0	2
260	0	0	2	1	1	1	3	16	4	8	7	0	0	0	1	0	0	1	3
270	0	0	0	1	0	1	0	2	23	24	6	5	1	0	0	0	0	0	0
280	0	0	0	1	0	0	0	1	6	6	9	2	1	0	1	0	0	0	1
290	0	0	0	1	0	0	0	1	1	4	2	2	8	0	3	0	0	0	3
300	0	0	0	0	0	0	0	0	1	2	4	1	7	0	3	1	0	0	0
310	0	0	0	0	0	0	0	0	0	1	2	2	3	0	3	0	0	0	0
320	0	0	0	0	0	0	0	0	0	0	0	1	0	0	7	2	1	2	3
330	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	6	2	2	0
340	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4	7	6	0
350	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	3	0
360	0	0	0	0	0	0	0	0	3	1	0	0	0	0	0	2	8	2	0
VARIABLE	32	33	63	35	34	35	24	27	40	27	14	19	6	8	11	8	10	34	72

R O A W S = ROYAL OBSERVATORY AUTOMATIC WEATHER STATION

TABLE 2(d). COMPARISON OF WIND BETWEEN THE MANNED AND AUTOMATIC STATION AT THE ROYAL OBSERVATORY : NUMBER OF OCCURRENCES OF DIFFERENT WIND SPEEDS

JAN 1987 - DEC 1988

FIGURES INSIDE THE TABLE INDICATE THE TOTAL NUMBER OF OCCURRENCES

ROYAL OBSERVATORY MANNED STATION

10-minute mean wind speed (ending on the hour) in m/s

R O A W S 10-minute mean wind speed (ending on the hour) in m/s	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	GE20
0	4	1241	22	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	993	856	48	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	184	2205	1215	101	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	2	284	2106	1721	200	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	2	120	1137	1720	57	3	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	1	22	826	589	53	1	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	30	260	218	17	3	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	7	72	54	4	1	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	15	20	3	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	3	7	3	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GE20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

R O A W S = ROYAL OBSERVATORY AUTOMATIC WEATHER STATION

GE means greater than or equal to

TABLE 3(a). PERCENTAGE OF DAYS AND HOURS WITH WIND SPEEDS EXCEEDING SPECIFIED LIMITS : THE ROYAL OBSERVATORY HONG KONG AWS

PERIOD : JUL 1984 TO DEC 1988

NO. OF YEARS : 5

PERCENTAGE OF DAYS WITH WIND SPEEDS EXCEEDING SPECIFIED LIMITS

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
> = 0.0 m/s (F0)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
> = 0.1 m/s (F1)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
> = 3.3 m/s (F3)	86.3	86.7	79.0	85.7	78.2	75.8	76.6	70.3	82.0	88.4	78.0	75.5	80.0
> = 8.3 m/s (F5)	.0	1.8	.0	1.7	1.6	4.2	2.8	4.5	4.7	3.2	.0	.6	2.1
> = 11.3 m/s (F6)	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.6	.0	.0	.2
TOTAL NO. OF DAYS WITH DATA RECEIVED	124	113	124	119	124	120	145	155	150	155	150	155	1634

PERCENTAGE OF HOURS WITH WIND SPEEDS EXCEEDING SPECIFIED LIMITS

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
> = 0.0 m/s (F0)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
> = 0.1 m/s (F1)	99.9	100.0	99.6	99.1	98.7	98.6	98.4	98.4	99.4	99.9	98.8	99.0	99.1
> = 3.3 m/s (F3)	42.3	48.0	38.6	43.6	37.9	32.4	22.9	29.1	34.6	43.7	28.7	28.6	35.4
> = 8.3 m/s (F5)	.0	.2	.0	.1	.1	.7	.4	.5	1.3	1.0	.0	.0	.4
> = 11.3 m/s (F6)	.0	.0	.0	.0	.0	.0	.0	.0	.3	.1	.0	.0	*
TOTAL NO. OF HOURS WITH DATA RECEIVED	2749	2529	2784	2691	2793	2747	3207	3297	3437	3520	3378	3415	36547

Maximum wind speed : 13.9 m/s at 2300H on 5 SEP 1985

DESCRIPTIVE TERMS OF WIND SPEEDS :
F0 CALM F1-2 LIGHT F3-4 MODERATE F5 FRESH F6-7 STRONG F8-9 GALE F10-11 STORM F12 HURRICANE

Hourly mean wind used

***** means no data
* means trace

TABLE 3(b). PERCENTAGE OF DAYS AND HOURS WITH WIND SPEEDS EXCEEDING SPECIFIED LIMITS : SHA TIN AWS

PERIOD : OCT 1984 TO DEC 1988

NO. OF YEARS : 5

PERCENTAGE OF DAYS WITH WIND SPEEDS EXCEEDING SPECIFIED LIMITS

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
> = 0.0 m/s (F0)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
> = 0.1 m/s (F1)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
> = 3.3 m/s (F3)	71.0	71.9	76.1	65.8	69.4	81.7	83.1	61.3	60.0	64.3	58.1	58.1	67.8
> = 8.3 m/s (F5)	.8	.0	.9	.0	3.2	.8	3.2	.0	2.5	.6	.7	.6	1.1
> = 11.3 m/s (F6)	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	.1
TOTAL NO. OF DAYS WITH DATA RECEIVED	124	89	113	120	124	120	124	124	120	154	148	155	1515

PERCENTAGE OF HOURS WITH WIND SPEEDS EXCEEDING SPECIFIED LIMITS

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
> = 0.0 m/s (F0)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
> = 0.1 m/s (F1)	99.9	100.0	100.0	99.9	99.8	99.2	98.7	97.9	98.8	99.5	99.5	98.5	99.3
> = 3.3 m/s (F3)	15.6	23.7	24.5	17.8	22.9	29.7	25.4	20.8	21.1	23.0	17.1	17.0	21.3
> = 8.3 m/s (F5)	.0	.0	.0	.0	.3	.0	.4	.0	.3	.1	.2	.0	.1
> = 11.3 m/s (F6)	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*
TOTAL NO. OF HOURS WITH DATA RECEIVED	2779	2004	2528	2743	2770	2687	2802	2741	2684	3457	3371	3416	33982

Maximum wind speed : 11.3 m/s at 1000H on 6 SEP 1985

DESCRIPTIVE TERMS OF WIND SPEEDS :
F0 CALM F1-2 LIGHT F3-4 MODERATE F5 FRESH F6-7 STRONG F8-9 GALE F10-11 STORM F12 HURRICANE

Hourly mean wind used

***** means no data
* means trace

TABLE 3(c). PERCENTAGE OF DAYS AND HOURS WITH WIND SPEEDS EXCEEDING SPECIFIED LIMITS : CHEK LAP KOK AWS

PERIOD : SEP 1984 TO DEC 1988

NO. OF YEARS : 5

PERCENTAGE OF DAYS WITH WIND SPEEDS EXCEEDING SPECIFIED LIMITS

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
> = 0.0 m/s (F0)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
> = 0.1 m/s (F1)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
> = 3.3 m/s (F3)	99.2	99.1	100.0	98.3	98.2	100.0	100.0	100.0	99.3	100.0	100.0	99.4	99.5
> = 8.3 m/s (F5)	52.4	56.6	51.6	60.8	41.6	43.3	25.5	20.5	36.8	52.0	40.9	43.9	44.2
> = 11.3 m/s (F6)	13.7	29.2	20.5	30.0	11.5	13.3	8.8	6.3	11.1	16.7	8.7	12.9	15.1
> = 17.3 m/s (F8)	.0	2.7	4.1	1.7	.0	.8	2.0	.9	2.1	1.3	.7	.0	1.3
> = 20.8 m/s (F9)	.0	.0	.0	.0	.0	.0	1.0	.0	1.4	.0	.0	.0	.2
> = 24.3 m/s (F10)	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0	.1
TOTAL NO. OF DAYS WITH DATA RECEIVED	124	113	122	120	113	120	102	112	144	150	149	155	1524

PERCENTAGE OF HOURS WITH WIND SPEEDS EXCEEDING SPECIFIED LIMITS

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
> = 0.0 m/s (F0)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
> = 0.1 m/s (F1)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
> = 3.3 m/s (F3)	68.7	73.6	78.2	70.1	68.9	69.4	60.6	55.2	67.0	77.3	69.6	66.6	69.0
> = 8.3 m/s (F5)	13.0	21.7	17.8	23.0	14.4	12.4	8.7	6.4	10.6	19.1	9.3	11.5	13.9
> = 11.3 m/s (F6)	1.8	8.5	5.4	6.2	3.8	2.3	2.7	1.7	3.0	4.4	1.4	2.1	3.5
> = 17.3 m/s (F8)	.0	.3	.3	.1	.0	.2	.5	.0	.8	.4	.0	.0	.2
> = 20.8 m/s (F9)	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	*
> = 24.3 m/s (F10)	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	*
TOTAL NO. OF HOURS WITH DATA RECEIVED	2774	2376	2703	2722	2449	2728	2312	2518	3289	3352	3329	3489	34041

Maximum wind speed : 27.0 m/s at 300H on 6 SEP 1985

DESCRIPTIVE TERMS OF WIND SPEEDS :
F0 CALM F1-2 LIGHT F3-4 MODERATE F5 FRESH F6-7 STRONG F8-9 GALE F10-11 STORM F12 HURRICANE

Hourly mean wind used

***** means no data
* means trace

TABLE 3(d). PERCENTAGE OF DAYS AND HOURS WITH WIND SPEEDS EXCEEDING SPECIFIED LIMITS : AWS AT HONG KONG INTERNATIONAL TERMINALS, KWAI CHUNG

PERIOD : MAY 1985 TO DEC 1988

NO. OF YEARS : 4

PERCENTAGE OF DAYS WITH WIND SPEEDS EXCEEDING SPECIFIED LIMITS

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
> = 0.0 m/s (F0)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
> = 0.1 m/s (F1)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
> = 3.3 m/s (F3)	94.6	92.9	82.6	81.9	84.1	85.8	84.4	72.6	85.8	90.3	91.5	87.6	86.0
> = 8.3 m/s (F5)	1.1	1.2	2.2	.0	1.9	3.3	6.6	1.6	4.2	.8	.0	1.7	2.1
> = 11.3 m/s (F6)	.0	.0	.0	.0	.0	.0	2.5	.0	1.7	.0	.0	.0	.4
TOTAL NO. OF DAYS WITH DATA RECEIVED	92	85	92	83	107	120	122	124	120	124	118	121	1308

PERCENTAGE OF HOURS WITH WIND SPEEDS EXCEEDING SPECIFIED LIMITS

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
> = 0.0 m/s (F0)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
> = 0.1 m/s (F1)	100.0	100.0	100.0	99.7	99.8	99.9	99.8	99.2	99.7	100.0	100.0	99.7	99.8
> = 3.3 m/s (F3)	36.5	40.7	39.1	33.9	29.7	34.5	26.0	20.3	29.3	33.6	27.2	30.9	31.2
> = 8.3 m/s (F5)	.2	.1	.1	.0	.1	.5	1.4	.3	1.4	.2	.0	.1	.4
> = 11.3 m/s (F6)	.0	.0	.0	.0	.0	.0	.2	.0	.4	.0	.0	.0	.1
TOTAL NO. OF HOURS WITH DATA RECEIVED	2070	1924	2088	1886	2441	2757	2814	2797	2777	2851	2692	2712	29809

Maximum wind speed : 16.8 m/s at 600H on 6 SEP 1985

DESCRIPTIVE TERMS OF WIND SPEEDS :
F0 CALM F1-2 LIGHT F3-4 MODERATE F5 FRESH F6-7 STRONG F8-9 GALE F10-11 STORM F12 HURRICANE

Hourly mean wind used

***** means no data
* means trace

TABLE 3(e). PERCENTAGE OF DAYS AND HOURS WITH WIND SPEEDS EXCEEDING SPECIFIED LIMITS : LAU FAU SHAN AWS

PERIOD : SEP 1985 TO DEC 1988

NO. OF YEARS : 4

PERCENTAGE OF DAYS WITH WIND SPEEDS EXCEEDING SPECIFIED LIMITS

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
> = 0.0 m/s (F0)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
> = 0.1 m/s (F1)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
> = 3.3 m/s (F3)	98.9	100.0	98.9	97.5	100.0	100.0	100.0	98.9	100.0	99.2	96.7	99.2	99.1
> = 8.3 m/s (F5)	14.0	11.8	15.1	12.3	11.8	7.8	12.4	6.8	11.4	10.7	5.0	6.5	10.2
> = 11.3 m/s (F6)	1.1	1.2	1.1	.0	.0	2.2	4.5	.0	.0	1.6	.8	.8	1.1
> = 17.3 m/s (F8)	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.1
TOTAL NO. OF DAYS WITH DATA RECEIVED	93	85	93	81	93	90	89	88	105	122	120	124	1183

PERCENTAGE OF HOURS WITH WIND SPEEDS EXCEEDING SPECIFIED LIMITS

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
> = 0.0 m/s (F0)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
> = 0.1 m/s (F1)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
> = 3.3 m/s (F3)	62.0	64.0	62.9	50.1	53.9	52.5	48.9	45.2	50.9	56.3	49.6	48.4	53.6
> = 8.3 m/s (F5)	2.9	2.5	2.1	1.1	1.2	1.0	4.1	.5	1.5	2.8	1.2	1.0	1.8
> = 11.3 m/s (F6)	.1	.1	.0	.0	.0	.2	1.4	.0	.0	.2	.1	.1	.2
> = 17.3 m/s (F8)	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	*
TOTAL NO. OF HOURS WITH DATA RECEIVED	2106	1949	2165	1841	2149	2129	2055	1993	2448	2813	2729	2799	27176

Maximum wind speed : 18.4 m/s at 2000H on 11 JUL 1986

DESCRIPTIVE TERMS OF WIND SPEEDS :
F0 CALM F1-2 LIGHT F3-4 MODERATE F5 FRESH F6-7 STRONG F8-9 GALE F10-11 STORM F12 HURRICANE

Hourly mean wind used

***** means no data
* means trace

TABLE 3(f). PERCENTAGE OF DAYS AND HOURS WITH WIND SPEEDS EXCEEDING SPECIFIED LIMITS : TA KWU LING AWS

PERIOD : JAN 1986 TO DEC 1988

NO. OF YEARS : 3

PERCENTAGE OF DAYS WITH WIND SPEEDS EXCEEDING SPECIFIED LIMITS

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
> = 0.0 m/s (F0)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
> = 0.1 m/s (F1)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
> = 3.3 m/s (F3)	97.4	95.3	95.7	94.3	92.5	86.5	87.1	76.9	89.7	95.7	92.2	87.1	90.7
> = 8.3 m/s (F5)	.0	7.1	8.7	5.7	1.1	.0	1.1	1.1	2.3	7.5	6.7	4.3	3.8
> = 11.3 m/s (F6)	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	1.1	.3
TOTAL NO. OF DAYS WITH DATA RECEIVED	77	85	92	87	93	89	93	91	87	93	90	93	1070

PERCENTAGE OF HOURS WITH WIND SPEEDS EXCEEDING SPECIFIED LIMITS

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
> = 0.0 m/s (F0)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
> = 0.1 m/s (F1)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
> = 3.3 m/s (F3)	43.3	52.6	51.3	49.7	45.3	28.1	23.4	24.8	28.7	45.2	39.4	31.9	38.5
> = 8.3 m/s (F5)	.0	1.2	1.0	.4	.1	.0	.1	.0	.3	1.4	1.8	.8	.6
> = 11.3 m/s (F6)	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.1
TOTAL NO. OF HOURS WITH DATA RECEIVED	1759	1983	2126	2022	2172	2077	2184	2097	2036	2161	2022	2094	24733

Maximum wind speed : 12.3 m/s at 1400H on 28 NOV 1987

DESCRIPTIVE TERMS OF WIND SPEEDS :
F0 CALM F1-2 LIGHT F3-4 MODERATE F5 FRESH F6-7 STRONG F8-9 GALE F10-11 STORM F12 HURRICANE

Hourly mean wind used

***** means no data
* means trace

TABLE 3(g). PERCENTAGE OF DAYS AND HOURS WITH WIND SPEEDS EXCEEDING SPECIFIED LIMITS : AWS AT MOBIL OIL DEPOT, TSING YI

PERIOD : APR 1987 TO DEC 1988

NO. OF YEARS : 2

PERCENTAGE OF DAYS WITH WIND SPEEDS EXCEEDING SPECIFIED LIMITS

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
> = 0.0 m/s (F0)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
> = 0.1 m/s (F1)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
> = 3.3 m/s (F3)	87.1	82.8	71.0	91.5	93.5	85.0	87.1	82.3	86.7	92.9	91.7	93.5	88.0
> = 8.3 m/s (F5)	.0	.0	.0	.0	.0	.0	3.2	.0	.0	1.8	.0	.0	.5
TOTAL NO. OF DAYS WITH DATA RECEIVED	31	29	31	59	62	60	62	62	60	56	60	62	634

PERCENTAGE OF HOURS WITH WIND SPEEDS EXCEEDING SPECIFIED LIMITS

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
> = 0.0 m/s (F0)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
> = 0.1 m/s (F1)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
> = 3.3 m/s (F3)	31.2	36.0	22.8	32.0	38.4	41.1	30.2	25.1	30.5	52.6	37.1	30.5	34.3
> = 8.3 m/s (F5)	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	.0	.0	*
TOTAL NO. OF HOURS WITH DATA RECEIVED	686	652	683	1336	1441	1345	1399	1393	1352	1191	1314	1330	14122

Maximum wind speed : 10.1 m/s at 2400H on 19 JUL 1988

DESCRIPTIVE TERMS OF WIND SPEEDS :
F0 CALM F1-2 LIGHT F3-4 MODERATE F5 FRESH F6-7 STRONG F8-9 GALE F10-11 STORM F12 HURRICANE

Hourly mean wind used

***** means no data
* means trace

TABLE 3(h). PERCENTAGE OF DAYS AND HOURS WITH WIND SPEEDS EXCEEDING SPECIFIED LIMITS : AWS AT HONG KONG UNITED DOCKYARDS, TSING YI

PERIOD : APR 1987 TO DEC 1988

NO. OF YEARS : 2

PERCENTAGE OF DAYS WITH WIND SPEEDS EXCEEDING SPECIFIED LIMITS

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
> = 0.0 m/s (F0)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
> = 0.1 m/s (F1)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
> = 3.3 m/s (F3)	87.1	86.2	71.0	64.2	74.2	56.7	60.7	53.3	60.0	80.6	93.3	90.2	72.1
> = 8.3 m/s (F5)	.0	.0	9.7	1.9	1.6	.0	.0	.0	.0	1.6	1.7	.0	1.1
TOTAL NO. OF DAYS WITH DATA RECEIVED	31	29	31	53	62	60	61	60	60	62	60	61	630

PERCENTAGE OF HOURS WITH WIND SPEEDS EXCEEDING SPECIFIED LIMITS

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
> = 0.0 m/s (F0)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
> = 0.1 m/s (F1)	100.0	100.0	100.0	99.5	100.0	100.0	100.0	100.0	100.0	99.9	100.0	99.8	99.9
> = 3.3 m/s (F3)	25.1	32.8	25.0	30.1	26.8	13.9	11.4	11.2	14.3	44.8	32.5	30.1	24.4
> = 8.3 m/s (F5)	.0	.0	1.4	.1	.1	.0	.0	.0	.0	.1	.2	.0	.1
TOTAL NO. OF HOURS WITH DATA RECEIVED	689	638	635	1119	1412	1349	1224	1252	1265	1295	1226	1265	13369

Maximum wind speed : 10.3 m/s at 300H on 16 MAR 1988

DESCRIPTIVE TERMS OF WIND SPEEDS :
F0 CALM F1-2 LIGHT F3-4 MODERATE F5 FRESH F6-7 STRONG F8-9 GALE F10-11 STORM F12 HURRICANE

Hourly mean wind used

***** means no data
* means trace

TABLE 3(i). PERCENTAGE OF DAYS AND HOURS WITH WIND SPEEDS EXCEEDING SPECIFIED LIMITS : AWS AT CHING PAK HOUSE, TSING YI

PERIOD : APR 1987 TO DEC 1988

NO. OF YEARS : 2

PERCENTAGE OF DAYS WITH WIND SPEEDS EXCEEDING SPECIFIED LIMITS

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
> = 0.0 m/s (F0)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
> = 0.1 m/s (F1)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
> = 3.3 m/s (F3)	67.7	79.3	67.7	72.9	74.2	82.8	75.8	63.3	72.3	83.9	88.3	85.5	76.8
> = 8.3 m/s (F5)	.0	.0	.0	.0	.0	.0	1.6	.0	6.4	21.4	3.3	1.6	3.1
> = 11.3 m/s (F6)	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	.0	.0	.2
TOTAL NO. OF DAYS WITH DATA RECEIVED	31	29	31	59	62	58	62	60	47	56	60	62	617

PERCENTAGE OF HOURS WITH WIND SPEEDS EXCEEDING SPECIFIED LIMITS

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
> = 0.0 m/s (F0)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
> = 0.1 m/s (F1)	100.0	100.0	100.0	99.9	100.0	100.0	100.0	100.0	99.9	100.0	100.0	100.0	100.0
> = 3.3 m/s (F3)	12.2	13.7	14.5	22.6	26.1	28.1	19.8	21.0	30.8	59.1	41.6	37.9	28.7
> = 8.3 m/s (F5)	.0	.0	.0	.0	.0	.0	.1	.0	1.1	3.2	.4	.2	.4
> = 11.3 m/s (F6)	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	*
TOTAL NO. OF HOURS WITH DATA RECEIVED	683	642	662	1328	1454	1281	1406	1396	931	1170	1260	1287	13500

Maximum wind speed : 12.0 m/s at 1200H on 22 OCT 1988

DESCRIPTIVE TERMS OF WIND SPEEDS :
F0 CALM F1-2 LIGHT F3-4 MODERATE F5 FRESH F6-7 STRONG F8-9 GALE F10-11 STORM F12 HURRICANE

Hourly mean wind used

***** means no data
* means trace

TABLE 3(j). PERCENTAGE OF DAYS AND HOURS WITH WIND SPEEDS EXCEEDING SPECIFIED LIMITS : TUEN MUN AWS

PERIOD : OCT 1987 TO DEC 1988

NO. OF YEARS : 2

PERCENTAGE OF DAYS WITH WIND SPEEDS EXCEEDING SPECIFIED LIMITS

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
> = 0.0 m/s (F0)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
> = 0.1 m/s (F1)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
> = 3.3 m/s (F3)	54.8	69.2	86.2	62.1	54.8	86.7	64.5	48.4	66.7	97.5	75.0	71.0	70.7
> = 8.3 m/s (F5)	.0	3.8	.0	.0	.0	.0	.0	.0	.0	12.5	10.0	9.7	4.2
> = 11.3 m/s (F6)	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	.0	.5
TOTAL NO. OF DAYS WITH DATA RECEIVED	31	26	29	29	31	30	31	31	30	40	60	62	430

PERCENTAGE OF HOURS WITH WIND SPEEDS EXCEEDING SPECIFIED LIMITS

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
> = 0.0 m/s (F0)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
> = 0.1 m/s (F1)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
> = 3.3 m/s (F3)	11.2	23.1	26.4	15.6	12.9	29.7	12.0	8.1	23.3	39.1	29.9	21.2	22.0
> = 8.3 m/s (F5)	.0	.8	.0	.0	.0	.0	.0	.0	.0	1.5	1.9	1.2	.6
> = 11.3 m/s (F6)	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.1
TOTAL NO. OF HOURS WITH DATA RECEIVED	599	399	683	671	743	714	743	739	700	916	1350	1365	9622

Maximum wind speed : 16.5 m/s at 2000H on 28 NOV 1987

DESCRIPTIVE TERMS OF WIND SPEEDS :
F0 CALM F1-2 LIGHT F3-4 MODERATE F5 FRESH F6-7 STRONG F8-9 GALE F10-11 STORM F12 HURRICANE

Hourly mean wind used

***** means no data
* means trace

TABLE 3(k). PERCENTAGE OF DAYS AND HOURS WITH WIND SPEEDS EXCEEDING SPECIFIED LIMITS : TAI MO SHAN AWS

PERIOD : DEC 1987 TO DEC 1988

NO. OF YEARS : 2

PERCENTAGE OF DAYS WITH WIND SPEEDS EXCEEDING SPECIFIED LIMITS

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
> = 0.0 m/s (F0)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
> = 0.1 m/s (F1)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
> = 3.3 m/s (F3)	90.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.2
> = 8.3 m/s (F5)	67.7	82.8	87.1	93.1	80.6	93.3	64.5	85.2	66.7	87.1	90.0	78.2	81.0
> = 11.3 m/s (F6)	16.1	27.6	54.8	58.6	48.4	56.7	22.6	44.4	43.3	71.0	70.0	49.1	47.0
> = 17.3 m/s (F8)	.0	.0	.0	13.8	.0	6.7	6.5	.0	.0	22.6	10.0	3.6	5.2
> = 20.8 m/s (F9)	.0	.0	.0	3.4	.0	3.3	3.2	.0	.0	.0	3.3	.0	1.0
TOTAL NO. OF DAYS WITH DATA RECEIVED	31	29	31	29	31	30	31	27	30	31	30	55	385

PERCENTAGE OF HOURS WITH WIND SPEEDS EXCEEDING SPECIFIED LIMITS

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
> = 0.0 m/s (F0)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
> = 0.1 m/s (F1)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
> = 3.3 m/s (F3)	70.4	84.7	93.0	91.1	82.9	90.5	78.3	88.3	81.1	88.2	87.3	84.0	84.9
> = 8.3 m/s (F5)	18.4	26.6	50.1	49.6	39.4	48.8	21.1	42.7	37.8	61.4	44.5	34.1	39.2
> = 11.3 m/s (F6)	2.0	4.8	18.8	25.6	10.2	15.0	5.0	14.4	12.1	42.7	24.5	15.1	15.8
> = 17.3 m/s (F8)	.0	.0	.0	5.5	.0	.4	1.2	.0	.0	8.0	2.6	.3	1.4
> = 20.8 m/s (F9)	.0	.0	.0	.1	.0	.1	.3	.0	.0	.0	.1	.0	.1
TOTAL NO. OF HOURS WITH DATA RECEIVED	706	688	744	676	744	715	743	616	703	712	695	1201	8943

Maximum wind speed : 24.2 m/s at 100H on 20 JUL 1988

DESCRIPTIVE TERMS OF WIND SPEEDS :
F0 CALM F1-2 LIGHT F3-4 MODERATE F5 FRESH F6-7 STRONG F8-9 GALE F10-11 STORM F12 HURRICANE

Hourly mean wind used

***** means no data
* means trace

TABLE 3(1). PERCENTAGE OF DAYS AND HOURS WITH WIND SPEEDS EXCEEDING SPECIFIED LIMITS : TATE'S CAIRN AWS

PERIOD : DEC 1987 TO DEC 1988

NO. OF YEARS : 2

PERCENTAGE OF DAYS WITH WIND SPEEDS EXCEEDING SPECIFIED LIMITS

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
> = 0.0 m/s (F0)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
> = 0.1 m/s (F1)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
> = 3.3 m/s (F3)	100.0	100.0	100.0	100.0	93.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.5
> = 8.3 m/s (F5)	87.1	89.7	93.5	82.8	67.7	53.3	29.6	26.7	66.7	90.3	86.7	80.0	74.0
> = 11.3 m/s (F6)	29.0	58.6	54.8	44.8	25.8	20.0	11.1	13.3	33.3	61.3	36.7	36.4	36.6
> = 17.3 m/s (F8)	.0	.0	.0	3.4	.0	.0	3.7	.0	6.7	3.2	3.3	.0	1.6
> = 20.8 m/s (F9)	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	.0	.0	.3
TOTAL NO. OF DAYS WITH DATA RECEIVED	31	29	31	29	31	30	27	15	30	31	30	55	369

PERCENTAGE OF HOURS WITH WIND SPEEDS EXCEEDING SPECIFIED LIMITS

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
> = 0.0 m/s (F0)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
> = 0.1 m/s (F1)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
> = 3.3 m/s (F3)	81.5	86.3	93.7	91.0	79.6	79.7	77.4	63.9	84.2	91.7	93.9	88.8	85.5
> = 8.3 m/s (F5)	26.2	42.7	40.6	43.5	23.4	17.1	6.1	3.8	28.3	54.4	32.9	27.4	29.9
> = 11.3 m/s (F6)	5.5	16.3	14.0	18.6	4.7	2.7	1.2	.9	9.0	22.9	14.4	9.3	10.3
> = 17.3 m/s (F8)	.0	.0	.0	.3	.0	.0	.2	.0	.7	1.6	.3	.0	.2
> = 20.8 m/s (F9)	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	*
TOTAL NO. OF HOURS WITH DATA RECEIVED	728	688	744	676	744	715	642	319	703	677	687	1197	8520

Maximum wind speed : 20.9 m/s at 1200H on 27 OCT 1988

DESCRIPTIVE TERMS OF WIND SPEEDS :
F0 CALM F1-2 LIGHT F3-4 MODERATE F5 FRESH F6-7 STRONG F8-9 GALE F10-11 STORM F12 HURRICANE

Hourly mean wind used

***** means no data
* means trace

TABLE 3(m). PERCENTAGE OF DAYS AND HOURS WITH WIND SPEEDS EXCEEDING SPECIFIED LIMITS : TAMAR AWS

PERIOD : DEC 1987 TO DEC 1988

NO. OF YEARS : 2

PERCENTAGE OF DAYS WITH WIND SPEEDS EXCEEDING SPECIFIED LIMITS

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
> = 0.0 m/s (F0)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
> = 0.1 m/s (F1)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
> = 3.3 m/s (F3)	96.8	100.0	54.8	82.8	64.5	76.7	71.0	58.1	80.0	81.0	73.3	76.4	76.0
> = 8.3 m/s (F5)	.0	.0	.0	.0	.0	.0	.0	.0	6.7	4.8	.0	1.8	1.1
TOTAL NO. OF DAYS WITH DATA RECEIVED	31	29	31	29	31	30	31	31	30	21	30	55	379

PERCENTAGE OF HOURS WITH WIND SPEEDS EXCEEDING SPECIFIED LIMITS

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
> = 0.0 m/s (F0)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
> = 0.1 m/s (F1)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
> = 3.3 m/s (F3)	40.0	45.6	18.8	31.4	20.0	15.1	17.8	10.9	30.4	46.5	30.1	20.7	26.2
> = 8.3 m/s (F5)	.0	.0	.0	.0	.0	.0	.0	.0	.7	.2	.0	.1	.1
TOTAL NO. OF HOURS WITH DATA RECEIVED	728	688	744	676	744	715	743	741	703	456	698	1201	8837

Maximum wind speed : 10.5 m/s at 1200H on 17 SEP 1988

DESCRIPTIVE TERMS OF WIND SPEEDS :
F0 CALM F1-2 LIGHT F3-4 MODERATE F5 FRESH F6-7 STRONG F8-9 GALE F10-11 STORM F12 HURRICANE

Hourly mean wind used

***** means no data
* means trace

TABLE 3(n). PERCENTAGE OF DAYS AND HOURS WITH WIND SPEEDS EXCEEDING SPECIFIED LIMITS : WAGLAN ISLAND AWS

PERIOD : DEC 1987 TO DEC 1988

NO. OF YEARS : 2

PERCENTAGE OF DAYS WITH WIND SPEEDS EXCEEDING SPECIFIED LIMITS

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
> = 0.0 m/s (F0)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
> = 0.1 m/s (F1)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
> = 3.3 m/s (F3)	96.8	100.0	100.0	100.0	100.0	100.0	100.0	96.8	96.6	100.0	100.0	100.0	99.2
> = 8.3 m/s (F5)	80.6	82.8	83.9	65.5	51.6	50.0	32.3	45.2	72.4	96.8	80.0	76.4	68.6
> = 11.3 m/s (F6)	41.9	51.7	29.0	31.0	22.6	16.7	6.5	3.2	31.0	77.4	40.0	41.8	33.2
> = 17.3 m/s (F8)	.0	.0	.0	.0	.0	.0	6.5	.0	3.4	22.6	.0	.0	2.6
TOTAL NO. OF DAYS WITH DATA RECEIVED	31	29	31	29	31	30	31	31	29	31	30	55	388

PERCENTAGE OF HOURS WITH WIND SPEEDS EXCEEDING SPECIFIED LIMITS

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
> = 0.0 m/s (F0)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
> = 0.1 m/s (F1)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
> = 3.3 m/s (F3)	77.2	91.6	93.4	87.7	84.5	85.4	73.4	60.9	85.5	98.5	97.9	88.3	85.3
> = 8.3 m/s (F5)	33.9	41.9	25.9	28.6	21.0	16.9	9.4	10.3	31.4	69.8	37.5	35.7	30.1
> = 11.3 m/s (F6)	8.7	13.7	3.2	11.8	4.2	2.0	2.7	1.6	12.2	49.9-	11.0	9.8	10.6
> = 17.3 m/s (F8)	.0	.0	.0	.0	.0	.0	.5	.0	.3	2.9	.0	.0	.3
TOTAL NO. OF HOURS WITH DATA RECEIVED	705	688	744	676	744	714	743	741	657	678	698	1198	8986

Maximum wind speed : 19.5 m/s at 1400H on 22 OCT 1988

DESCRIPTIVE TERMS OF WIND SPEEDS :
F0 CALM F1-2 LIGHT F3-4 MODERATE F5 FRESH F6-7 STRONG F8-9 GALE F10-11 STORM F12 HURRICANE

Hourly mean wind used

***** means no data
* means trace

TABLE 3(o). PERCENTAGE OF DAYS AND HOURS WITH WIND SPEEDS EXCEEDING SPECIFIED LIMITS : STAR FERRY AWS

PERIOD : DEC 1987 TO DEC 1988

NO. OF YEARS : 2

PERCENTAGE OF DAYS WITH WIND SPEEDS EXCEEDING SPECIFIED LIMITS

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
> = 0.0 m/s (F0)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
> = 0.1 m/s (F1)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
> = 3.3 m/s (F3)	96.8	93.1	90.3	100.0	93.5	96.7	100.0	100.0	96.7	83.9	83.3	87.5	93.2
> = 8.3 m/s (F5)	.0	17.2	19.4	.0	3.2	10.0	6.5	.0	6.7	29.0	.0	8.3	8.4
> = 11.3 m/s (F6)	.0	.0	.0	.0	.0	.0	3.2	.0	.0	.0	.0	.0	.3
TOTAL NO. OF DAYS WITH DATA RECEIVED	31	29	31	29	31	30	31	31	30	31	30	48	382

PERCENTAGE OF HOURS WITH WIND SPEEDS EXCEEDING SPECIFIED LIMITS

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
> = 0.0 m/s (F0)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
> = 0.1 m/s (F1)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
> = 3.3 m/s (F3)	57.6	62.1	53.9	59.3	60.8	52.3	39.7	38.3	53.2	66.2	32.9	44.0	51.3
> = 8.3 m/s (F5)	.0	2.8	2.0	.0	.3	1.0	1.3	.0	.9	5.1	.0	.7	1.1
> = 11.3 m/s (F6)	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	*
TOTAL NO. OF HOURS WITH DATA RECEIVED	728	688	744	676	744	715	743	741	703	712	695	1050	8939

Maximum wind speed : 12.4 m/s at 2200H on 19 JUL 1988

DESCRIPTIVE TERMS OF WIND SPEEDS :
F0 CALM F1-2 LIGHT F3-4 MODERATE F5 FRESH F6-7 STRONG F8-9 GALE F10-11 STORM F12 HURRICANE

Hourly mean wind used

***** means no data
* means trace

TABLE 3(p). PERCENTAGE OF DAYS AND HOURS WITH WIND SPEEDS EXCEEDING SPECIFIED LIMITS : CHEUNG SHA WAN AWS

PERIOD : AUG 1988 TO DEC 1988

NO. OF YEARS : 1

PERCENTAGE OF DAYS WITH WIND SPEEDS EXCEEDING SPECIFIED LIMITS

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
> = 0.0 m/s (F0)	*****	*****	*****	*****	*****	*****	*****	100.0	100.0	100.0	100.0	100.0	100.0
> = 0.1 m/s (F1)	*****	*****	*****	*****	*****	*****	*****	100.0	100.0	100.0	100.0	100.0	100.0
> = 3.3 m/s (F3)	*****	*****	*****	*****	*****	*****	*****	41.2	87.5	80.6	73.3	54.8	66.7
TOTAL NO. OF DAYS WITH DATA RECEIVED	0	0	0	0	0	0	0	17	8	31	30	31	117

PERCENTAGE OF HOURS WITH WIND SPEEDS EXCEEDING SPECIFIED LIMITS

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
> = 0.0 m/s (F0)	*****	*****	*****	*****	*****	*****	*****	100.0	100.0	100.0	100.0	100.0	100.0
> = 0.1 m/s (F1)	*****	*****	*****	*****	*****	*****	*****	100.0	100.0	100.0	100.0	100.0	100.0
> = 3.3 m/s (F3)	*****	*****	*****	*****	*****	*****	*****	13.4	55.3	36.5	19.1	11.3	23.5
TOTAL NO. OF HOURS WITH DATA RECEIVED	0	0	0	0	0	0	0	314	159	731	670	701	2575

Maximum wind speed : 8.1 m/s at 1800H on 27 OCT 1988

DESCRIPTIVE TERMS OF WIND SPEEDS :
F0 CALM F1-2 LIGHT F3-4 MODERATE F5 FRESH F6-7 STRONG F8-9 GALE F10-11 STORM F12 HURRICANE

Hourly mean wind used

***** means no data
* means trace

TABLE 4. MEAN GUST FACTOR

(i) The Royal Observatory Hong Kong AWS (JUL 1984 - DEC 1988)

Wind force	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12
Gust factor	5.19	2.48	2.15	2.10	2.14	2.09	***	***	***	***	***	***
No. of observations	10437	12724	10481	2247	123	13	0	0	0	0	0	0

(ii) Sha Tin AWS (OCT 1984 - DEC 1988)

Wind force	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12
Gust factor	8.55	2.55	2.03	1.75	1.71	2.59	***	***	***	***	***	***
No. of observations	13675	12681	6202	971	37	1	0	0	0	0	0	0

(iii) Chek Lap Kok AWS (SEP 1984 - DEC 1988)

Wind force	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12
Gust factor	5.23	2.05	1.70	1.52	1.39	1.36	1.34	1.37	1.40	1.44	***	***
No. of observations	4882	5629	9317	9345	3530	878	235	60	8	3	0	0

(iv) AWS at Hong Kong International Terminals, Kwai Chung (MAY 1985 - DEC 1988)

Wind force	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12
Gust factor	6.00	2.23	1.90	1.70	1.80	1.77	1.57	***	***	***	***	***
No. of observations	9273	11122	7505	1660	99	11	8	0	0	0	0	0

(v) Lau Fau Shan AWS (SEP 1985 - DEC 1988)

Wind force	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12
Gust factor	6.25	2.55	1.96	1.69	1.57	1.52	1.52	1.32	***	***	***	***
No. of observations	3915	8686	9710	4298	440	36	12	3	0	0	0	0

TABLE 4. (cont'd)

(vi) Ta Kwu Ling AWS (OCT 1985 - DEC 1988)

Wind force	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12
Gust factor	2.65	2.35	2.12	2.09	2.13	2.14	***	***	***	***	***	***
No. of observations	7728	7436	7103	2220	136	13	0	0	0	0	0	0

(vii) AWS at Mobil Oil Depot, Tsing Yi (APR 1987 - DEC 1988)

Wind force	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12
Gust factor	2.81	2.15	1.86	1.72	2.46	***	***	***	***	***	***	***
No. of observations	3942	5337	4123	714	4	0	0	0	0	0	0	0

(viii) AWS at Hong Kong United Dockyards, Tsing Yi (APR 1987 - DEC 1988)

Wind force	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12
Gust factor	2.86	2.08	1.88	1.74	1.49	***	***	***	***	***	***	***
No. of observations	5092	5004	2669	579	15	0	0	0	0	0	0	0

(ix) AWS at Ching Pak House, Tsing Yi (APR 1987 - DEC 1988)

Wind force	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12
Gust factor	3.11	2.22	2.00	1.97	1.95	1.78	***	***	***	***	***	***
No. of observations	4166	5464	3067	745	54	2	0	0	0	0	0	0

(x) Tuen Mun AWS (OCT 1987 - DEC 1988)

Wind force	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12
Gust factor	4.00	2.76	2.38	2.09	2.01	1.99	1.87	***	***	***	***	***
No. of observations	3969	3478	1613	418	44	2	12	0	0	0	0	0

TABLE 4. (cont'd)

(xi) Tai Mo Shan AWS (DEC 1987 - DEC 1988)

Wind force	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12
Gust factor	6.23	2.10	1.63	1.45	1.39	1.32	1.30	1.30	1.32	***	***	***
No. of observations	697	641	1356	2701	2087	944	330	123	5	0	0	0

(xii) Tate's Cairn AWS (DEC 1987 - DEC 1988)

Wind force	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12
Gust factor	6.07	2.32	1.82	1.57	1.47	1.39	1.39	1.37	1.34	***	***	***
No. of observations	450	777	1842	2849	1670	698	155	20	1	0	0	0

(xiii) Tamar AWS (DEC 1987 - DEC 1988)

Wind force	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12
Gust factor	3.63	2.59	2.05	1.85	1.62	***	***	***	***	***	***	***
No. of observations	3099	3384	1891	398	7	0	0	0	0	0	0	0

(xiv) Waglan Island AWS (DEC 1987 - DEC 1988)

Wind force	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12
Gust factor	4.82	2.68	1.94	1.61	1.39	1.35	1.33	1.35	***	***	***	***
No. of observations	472	839	1839	3078	1749	724	196	26	0	0	0	0

(xv) Star Ferry AWS (DEC 1987 - DEC 1988)

Wind force	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12
Gust factor	4.55	2.85	2.12	1.85	1.78	2.19	***	***	***	***	***	***
No. of observations	2128	2201	2787	1663	101	1	0	0	0	0	0	0

TABLE 4. (cont'd)

(xvi) Cheung Sha Wan AWS (AUG 1988 - DEC 1988)

Wind force	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12
Gust factor	3.16	2.65	2.40	2.08	***	***	***	***	***	***	***	***
No. of observations	852	1119	483	121	0	0	0	0	0	0	0	0

Note:

F1	0.1 - 1.7 m/s
F2	1.8 - 3.2 m/s
F3	3.3 - 5.2 m/s
F4	5.3 - 8.2 m/s
F5	8.3 - 11.2 m/s
F6	11.3 - 14.2 m/s
F7	14.3 - 17.2 m/s
F8	17.3 - 20.7 m/s
F9	20.8 - 24.2 m/s
F10	24.3 - 28.7 m/s
F11	28.8 - 32.7 m/s
F12	Greater than 32.7 m/s

TABLE 5(a). TOTAL NUMBER OF OCCURRENCE OF CONCURRENT WIND SPEED AND DIRECTION WITHIN SPECIFIED RANGES : THE ROYAL OBSERVATORY HONG KONG AWS

FEB 1985 TO DEC 1988

SPEED (M/S)	DIRECTION IN TENS OF DEGREES 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
0.1 - 1.7	287	363	535	377	212	177	337	708	688	516	282	147	119	154	108	169	189	135	101
1.8 - 3.2	306	398	441	242	112	204	481	1692	1933	1227	462	134	68	105	53	90	270	153	92
3.3 - 5.2	57	131	107	60	32	99	443	2266	2734	1536	374	52	35	36	18	11	27	29	21
5.3 - 8.2	3	4	3	3	5	16	114	586	544	404	97	14	24	27	23	2	9	1	
8.3 - 11.2						2	29	25	12	11	2	1	1	1					
11.3 - 14.2							3	4		4	1	1							
14.3 - 17.2																			
17.3 - 20.7																			
20.8 - 24.2																			
24.3 - 28.7																			
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	653	896	1086	682	361	498	1407	5281	5911	3698	1218	349	247	323	202	272	495	318	214

SPEED (M/S)	DIRECTION IN TENS OF DEGREES 20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	VAR	TOTAL
0.1 - 1.7	75	131	97	59	58	128	460	638	439	204	68	29	19	21	24	61	226	3	8344
1.8 - 3.2	103	199	163	81	67	193	652	600	233	48	34	19	11	15	16	35	249		11181
3.3 - 5.2	28	82	107	81	44	165	368	144	67	37	21	21	5	9	7	13	69		9336
5.3 - 8.2	7	17	29	19	21	26	11	13	8	6	2	3	4		3	6	3		2057
8.3 - 11.2		2	5	3	2	2	3	3	6	2	3								115
11.3 - 14.2																			13
14.3 - 17.2																			
17.3 - 20.7																			
20.8 - 24.2																			
24.3 - 28.7																			
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	213	431	401	243	192	514	1494	1398	753	297	128	72	39	45	50	115	547	3	31046

NUMBER OF CALM WIND OCCASIONS = 316

TOTAL NUMBER OF OBSERVATIONS = 31362

TABLE 5(b). TOTAL NUMBER OF OCCURRENCE OF CONCURRENT WIND SPEED AND DIRECTION WITHIN SPECIFIED RANGES : SHA TIN AWS

OCT 1984 TO DEC 1988

SPEED (M/S)	DIRECTION IN TENS OF DEGREES																		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
0.1 - 1.7	482	626	740	677	579	526	638	705	651	649	582	431	276	186	162	169	172	237	270
1.8 - 3.2	426	765	897	1123	783	572	658	682	591	749	747	717	482	240	119	107	109	141	182
3.3 - 5.2	90	149	248	380	441	296	377	346	197	272	308	273	232	131	53	46	32	34	63
5.3 - 8.2	12	20	30	53	38	39	41	28	30	20	16	11	7	9	5	3	8	3	4
8.3 - 11.2		2	2		1	6	1							3	1				
11.3 - 14.2														1					
14.3 - 17.2																			
17.3 - 20.7																			
20.8 - 24.2																			
24.3 - 28.7																			
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	1010	1562	1917	2233	1842	1439	1715	1761	1469	1690	1653	1432	997	570	340	325	321	415	519

SPEED (M/S)	DIRECTION IN TENS OF DEGREES																		
	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	VAR	TOTAL
0.1 - 1.7	352	436	482	484	388	315	214	138	138	184	231	220	236	192	229	270	381	44	13692
1.8 - 3.2	209	343	400	371	271	158	25	5	7	6	3	9	15	71	165	185	304	25	12662
3.3 - 5.2	81	315	289	529	373	204	53	5	2	3	1	2	18	48	94	100	122	10	6217
5.3 - 8.2	6	25	61	220	187	25	16						3	5	13	7	33		978
8.3 - 11.2	2	3	1	9	7												1		39
11.3 - 14.2																			1
14.3 - 17.2																			
17.3 - 20.7																			
20.8 - 24.2																			
24.3 - 28.7																			
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	650	1122	1233	1613	1226	702	308	148	147	193	235	231	272	316	501	562	841	79	33589

NUMBER OF CALM WIND OCCASIONS = 244

TOTAL NUMBER OF OBSERVATIONS = 33833

TABLE 5(c). TOTAL NUMBER OF OCCURRENCE OF CONCURRENT WIND SPEED AND DIRECTION WITHIN SPECIFIED RANGES : CHEK LAP KOK AWS

SEP 1984 TO DEC 1988

SPEED (M/S)	DIRECTION IN TENS OF DEGREES 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
0.1 - 1.7	75	82	146	212	227	233	287	225	226	207	197	155	136	93	110	114	117	124	102
1.8 - 3.2	159	192	212	293	280	280	290	274	250	270	235	105	53	21	25	60	103	163	153
3.3 - 5.2	458	449	343	227	190	251	333	567	636	546	586	250	59	26	74	157	252	335	241
5.3 - 8.2	356	345	197	96	69	200	370	799	1442	1166	888	388	103	45	85	94	247	215	105
8.3 - 11.2	72	60	37	22	15	95	318	377	1035	669	215	81	28	27	17	9	13	18	11
11.3 - 14.2	9	10	1	3	2	21	60	111	323	186	27	10	5	8	6	6	4	4	2
14.3 - 17.2	1					7	38	20	100	27	2	1	2	2			2		
17.3 - 20.7							5	7	5	11	1				3	2		2	
20.8 - 24.2									4	2	1								
24.3 - 28.7										1	2	1							
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	1130	1138	936	853	783	1087	1701	2380	4021	3085	2154	991	386	222	320	442	738	861	614

SPEED (M/S)	DIRECTION IN TENS OF DEGREES 20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	VAR	TOTAL
0.1 - 1.7	79	59	53	63	81	79	109	112	153	150	149	166	112	108	66	87	97	3	4794
1.8 - 3.2	115	71	69	57	68	113	128	196	246	181	242	165	99	65	71	79	127	1	5511
3.3 - 5.2	165	87	105	86	110	118	136	243	225	199	266	235	182	126	142	221	462		9088
5.3 - 8.2	66	51	61	65	80	39	31	23	15	56	110	185	188	179	156	253	388		9156
8.3 - 11.2	6	10	11	10	7	2		3	3	5	17	71	60	43	31	24	48		3470
11.3 - 14.2	2	2	3	4	3		1	2			5	6	14	4	1	2	7		854
14.3 - 17.2		1						1	1	1	2	1	2	1					212
17.3 - 20.7								3	2	2	2	2	3						50
20.8 - 24.2								1											8
24.3 - 28.7																			4
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	433	281	302	285	349	351	405	584	645	594	793	831	660	526	467	666	1129	4	33147

NUMBER OF CALM WIND OCCASIONS = 0

TOTAL NUMBER OF OBSERVATIONS = 33147

TABLE 5(d). TOTAL NUMBER OF OCCURRENCE OF CONCURRENT WIND SPEED AND DIRECTION WITHIN SPECIFIED RANGES : AWS AT HONG KONG INTERNATIONAL TERMINALS, KWAI CHUNG

MAY 1985 TO DEC 1988

SPEED (M/S)	DIRECTION IN TENS OF DEGREES 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
0.1 - 1.7	104	115	198	529	773	733	419	243	160	152	126	173	185	175	148	179	229	354	568
1.8 - 3.2	121	111	175	1103	1715	1690	1075	498	470	382	222	298	230	137	70	51	111	200	377
3.3 - 5.2	140	81	96	697	572	770	715	408	524	598	467	528	407	181	46	41	50	74	164
5.3 - 8.2	42	15	17	177	68	38	54	44	112	173	136	287	222	30	11	12	23	17	9
8.3 - 11.2	6			3		1	8			10	10	8	1	5	7	1	3	1	2
11.3 - 14.2										4	2	1		1			2		
14.3 - 17.2												2	2				1	2	
17.3 - 20.7																			
20.8 - 24.2																			
24.3 - 28.7																			
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	413	322	486	2509	3128	3232	2271	1193	1266	1319	963	1297	1047	529	282	284	419	648	1120

SPEED (M/S)	DIRECTION IN TENS OF DEGREES 20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	VAR	TOTAL
0.1 - 1.7	706	510	303	259	178	192	151	128	118	146	204	187	206	190	104	62	86	4	9297
1.8 - 3.2	604	483	218	96	34	68	57	47	26	47	57	54	63	83	40	51	75		11139
3.3 - 5.2	319	137	38	20	6	28	28	24	13	17	34	34	46	38	35	43	111		7530
5.3 - 8.2	29	16	13	9	3	3	5	2	1	6	13	14	21	14	2	4	24		1666
8.3 - 11.2		1	1	3					1	6	4		8	9					99
11.3 - 14.2														1					11
14.3 - 17.2			1																8
17.3 - 20.7																			
20.8 - 24.2																			
24.3 - 28.7																			
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	1658	1147	574	387	221	291	241	201	159	222	312	289	344	335	181	160	296	4	29750

NUMBER OF CALM WIND OCCASIONS = 59

TOTAL NUMBER OF OBSERVATIONS = 29809

TABLE 5(e). TOTAL NUMBER OF OCCURRENCE OF CONCURRENT WIND SPEED AND DIRECTION WITHIN SPECIFIED RANGES : LAU FAU SHAN AWS

OCT 1985 TO DEC 1988

SPEED (M/S)	DIRECTION IN TENS OF DEGREES 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
0.1 - 1.7	102	79	56	98	140	173	225	276	291	280	251	292	251	210	140	50	11	23	34
1.8 - 3.2	214	204	220	323	477	703	726	578	465	440	509	600	572	348	262	138	66	63	83
3.3 - 5.2	341	266	289	614	755	859	690	417	341	289	222	376	649	404	299	204	92	102	101
5.3 - 8.2	153	109	120	347	327	198	285	149	163	155	71	72	260	166	112	64	34	41	73
8.3 - 11.2	9	5	4	21	10	8	22	25	33	8	5	3	20	10	9	4	4	15	7
11.3 - 14.2								1	1	2								4	
14.3 - 17.2																		2	1
17.3 - 20.7																			
20.8 - 24.2																			
24.3 - 28.7																			
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	819	663	689	1403	1709	1941	1948	1446	1294	1174	1058	1343	1752	1138	822	460	207	250	299

SPEED (M/S)	DIRECTION IN TENS OF DEGREES 20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	VAR	TOTAL
0.1 - 1.7	25	23	25	30	47	52	44	59	46	63	69	80	61	86	67	50	81		3890
1.8 - 3.2	63	51	45	69	171	156	135	100	66	71	75	102	84	59	71	79	139		8527
3.3 - 5.2	73	87	84	170	395	360	182	68	32	53	57	42	61	64	47	78	193		9356
5.3 - 8.2	91	83	82	112	154	184	42	6	8	41	29	23	73	56	35	94	191		4203
8.3 - 11.2	18	20	3	9	3	1	4	2	2	5	4	7	14	4	9	37	74		438
11.3 - 14.2	4	2			1		4				3	1		1	3	1	8		36
14.3 - 17.2		1	1								2	2	3						12
17.3 - 20.7										1	2								3
20.8 - 24.2																			
24.3 - 28.7																			
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	274	267	240	390	771	753	411	235	154	234	241	257	296	270	232	339	686		26465

NUMBER OF CALM WIND OCCASIONS = 0

TOTAL NUMBER OF OBSERVATIONS = 26465

TABLE 5(f). TOTAL NUMBER OF OCCURRENCE OF CONCURRENT WIND SPEED AND DIRECTION WITHIN SPECIFIED RANGES : TA KWU LING AWS

JAN 1986 TO DEC 1988

SPEED (M/S)	DIRECTION IN TENS OF DEGREES 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
0.1 - 1.7	342	201	148	107	87	76	66	69	141	212	325	447	403	419	394	349	285	237	186
1.8 - 3.2	405	174	93	57	29	20	22	59	172	543	1178	1183	724	413	167	132	67	48	48
3.3 - 5.2	376	259	122	74	15	21	17	48	236	1011	1742	1295	509	152	67	61	30	11	23
5.3 - 8.2	245	253	151	63	7	4	12	16	60	253	403	437	154	17	2			2	1
8.3 - 11.2	11	17	15	5			1	8	3	15	21	14	9						
11.3 - 14.2	11		1																
14.3 - 17.2																			
17.3 - 20.7																			
20.8 - 24.2																			
24.3 - 28.7																			
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	1390	904	530	306	138	121	118	200	612	2034	3669	3376	1799	1001	630	542	382	298	258

SPEED (M/S)	DIRECTION IN TENS OF DEGREES 20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	VAR	TOTAL
0.1 - 1.7	170	191	194	151	171	160	134	126	158	215	287	289	220	158	131	151	307	28	7735
1.8 - 3.2	73	109	121	104	115	113	78	63	98	78	117	91	90	75	72	157	341	14	7443
3.3 - 5.2	44	76	123	95	68	42	26	14	18	36	33	21	18	20	36	94	277	11	7121
5.3 - 8.2	5	5	2	2	2	1	1				3	2		1	3	13	80	1	2201
8.3 - 11.2	2															2	13		136
11.3 - 14.2																	1		13
14.3 - 17.2																			
17.3 - 20.7																			
20.8 - 24.2																			
24.3 - 28.7																			
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	294	381	440	352	356	316	239	203	274	329	440	403	328	254	242	417	1019	54	24649

NUMBER OF CALM WIND OCCASIONS = 0

TOTAL NUMBER OF OBSERVATIONS = 24649

TABLE 5(g). TOTAL NUMBER OF OCCURRENCE OF CONCURRENT WIND SPEED AND DIRECTION WITHIN SPECIFIED RANGES : AWS AT MOBIL OIL DEPOT, TSING YI

APR 1987 TO DEC 1988

SPEED (M/S)	DIRECTION IN TENS OF DEGREES 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
0.1 - 1.7	102	136	120	147	121	84	114	125	120	55	59	58	61	57	111	159	280	275	177
1.8 - 3.2	126	105	105	142	156	241	337	525	427	213	164	110	148	154	148	144	272	394	341
3.3 - 5.2	46	48	58	81	98	145	207	396	492	210	149	207	295	266	156	109	119	362	245
5.3 - 8.2	5	3	4	17	11	19	18	28	57	28	24	65	79	72	63	8	21	102	45
8.3 - 11.2								1	1									1	1
11.3 - 14.2																			
14.3 - 17.2																			
17.3 - 20.7																			
20.8 - 24.2																			
24.3 - 28.7																			
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	279	292	287	387	386	489	676	1075	1097	506	396	440	583	549	478	420	692	1134	809

SPEED (M/S)	DIRECTION IN TENS OF DEGREES 20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	VAR	TOTAL
0.1 - 1.7	124	84	64	47	39	28	24	56	69	135	220	224	129	122	75	43	49	5	3898
1.8 - 3.2	170	103	56	19	4	2	7	30	38	63	127	103	45	58	51	41	85		5254
3.3 - 5.2	117	41	3				2	20	23	22	43	14	5	5	8	12	58	1	4063
5.3 - 8.2	6	1									10				1	5	7		699
8.3 - 11.2																			4
11.3 - 14.2																			
14.3 - 17.2																			
17.3 - 20.7																			
20.8 - 24.2																			
24.3 - 28.7																			
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	417	229	123	66	43	30	33	106	130	220	400	341	179	185	135	101	199	6	13918

NUMBER OF CALM WIND OCCASIONS = 0

TOTAL NUMBER OF OBSERVATIONS = 13918

TABLE 5(h). TOTAL NUMBER OF OCCURRENCE OF CONCURRENT WIND SPEED AND DIRECTION WITHIN SPECIFIED RANGES : AWS AT HONG KONG UNITED DOCKYARDS, TSING YI

APR 1987 TO DEC 1988

SPEED (M/S)	DIRECTION IN TENS OF DEGREES																		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
0.1 - 1.7	137	75	58	120	351	109	146	347	458	282	258	166	137	139	174	229	193	92	85
1.8 - 3.2	69	30	24	16	47	75	96	127	228	474	557	341	212	177	176	384	316	148	160
3.3 - 5.2	22	2	2	2	8	21	15	42	159	380	563	242	122	100	101	46	52	24	24
5.3 - 8.2	4						2	2	46	161	201	54	10	7	3				
8.3 - 11.2									1	9	2								
11.3 - 14.2																			
14.3 - 17.2																			
17.3 - 20.7																			
20.8 - 24.2																			
24.3 - 28.7																			
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	232	107	84	138	406	205	259	518	892	1306	1581	803	481	423	454	659	561	264	269

SPEED (M/S)	DIRECTION IN TENS OF DEGREES																		
	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	VAR	TOTAL
0.1 - 1.7	96	54	39	46	26	27	38	53	102	93	42	54	82	103	161	137	163	4	4876
1.8 - 3.2	118	55	14	5	3	4	8	31	98	106	54	51	85	119	194	112	80		4794
3.3 - 5.2	28	14	5	6		1	5	24	54	40	25	28	48	163	136	34	21		2559
5.3 - 8.2	1		1	1			1	4	4	1	1	1	3	31	22		4		565
8.3 - 11.2															3				15
11.3 - 14.2																			
14.3 - 17.2																			
17.3 - 20.7																			
20.8 - 24.2																			
24.3 - 28.7																			
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	243	123	59	58	29	32	52	112	258	240	122	134	218	416	516	283	268	4	12809

NUMBER OF CALM WIND OCCASIONS = 9

TOTAL NUMBER OF OBSERVATIONS = 12818

TABLE 5(i). TOTAL NUMBER OF OCCURRENCE OF CONCURRENT WIND SPEED AND DIRECTION WITHIN SPECIFIED RANGES : AWS AT CHING PAK HOUSE, TSING YI

APR 1987 TO DEC 1988

SPEED (M/S)	DIRECTION IN TENS OF DEGREES 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
0.1 - 1.7	68	85	68	61	70	26	33	48	119	78	92	108	176	234	214	250	292	307	176
1.8 - 3.2	27	63	128	109	95	63	73	165	277	242	271	438	466	427	435	262	341	375	253
3.3 - 5.2	12	52	103	80	79	81	80	163	124	124	200	323	256	160	86	54	210	299	89
5.3 - 8.2	4	14	38	37	21	30	59	42	22	25	35	78	38	35	11	2	26	37	7
8.3 - 11.2		2		2	4	7	4		1	3		5	1					1	
11.3 - 14.2						2													
14.3 - 17.2																			
17.3 - 20.7																			
20.8 - 24.2																			
24.3 - 28.7																			
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	111	216	337	289	269	209	249	418	543	472	598	952	937	856	746	568	869	1019	525

SPEED (M/S)	DIRECTION IN TENS OF DEGREES 20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	VAR	TOTAL
0.1 - 1.7	167	117	108	61	27	35	91	153	99	40	48	55	101	120	153	125	89	1	4095
1.8 - 3.2	165	63	32	7	4	2	32	79	73	37	19	37	34	43	116	112	27		5392
3.3 - 5.2	37	2	1	2		1	9	54	20	13	6	17	31	22	117	106	6		3019
5.3 - 8.2	2						1	1			1	12	13	5	62	73	2		733
8.3 - 11.2												1	3		6	14			54
11.3 - 14.2																			2
14.3 - 17.2																			
17.3 - 20.7																			
20.8 - 24.2																			
24.3 - 28.7																			
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	371	182	141	70	31	38	133	287	192	90	74	122	182	190	454	430	124	1	13295

NUMBER OF CALM WIND OCCASIONS = 2

TOTAL NUMBER OF OBSERVATIONS = 13297

TABLE 5(j). TOTAL NUMBER OF OCCURRENCE OF CONCURRENT WIND SPEED AND DIRECTION WITHIN SPECIFIED RANGES : TUEN MUN AWS

OCT 1987 TO DEC 1988

SPEED (M/S)	DIRECTION IN TENS OF DEGREES 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
0.1 - 1.7	338	301	258	117	56	26	15	17	15	22	32	44	73	71	81	127	162	137	99
1.8 - 3.2	168	345	301	120	16	8	3	8	6	12	33	26	29	133	157	217	252	160	80
3.3 - 5.2	46	94	352	155	10	2		2		4	15	22	28	111	109	126	123	26	6
5.3 - 8.2	5	10	106	157	4						4	4	1	16	2	5	6	3	
8.3 - 11.2			6	20															
11.3 - 14.2				2															
14.3 - 17.2				12															
17.3 - 20.7																			
20.8 - 24.2																			
24.3 - 28.7																			
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	557	750	1023	583	86	36	18	27	21	38	84	96	131	331	349	475	543	326	185

SPEED (M/S)	DIRECTION IN TENS OF DEGREES 20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	VAR	TOTAL
0.1 - 1.7	120	196	118	33	28	24	24	26	43	48	54	76	94	85	85	270	314	2	3631
1.8 - 3.2	129	166	64	20	10	13	11	14	20	59	48	43	79	40	49	124	156		3119
3.3 - 5.2	12	18		4		2	3	2	8	18	24	18	28	14	10	84	123		1599
5.3 - 8.2							1				1		2			40	56		423
8.3 - 11.2													1			4	13		44
11.3 - 14.2																			2
14.3 - 17.2																			12
17.3 - 20.7																			
20.8 - 24.2																			
24.3 - 28.7																			
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	261	380	182	57	38	39	39	42	71	125	127	137	204	139	144	522	662	2	8830

NUMBER OF CALM WIND OCCASIONS = 0

TOTAL NUMBER OF OBSERVATIONS = 8830

TABLE 5(k). TOTAL NUMBER OF OCCURRENCE OF CONCURRENT WIND SPEED AND DIRECTION WITHIN SPECIFIED RANGES : TAI MO SHAN AWS

JAN 1988 TO DEC 1988

SPEED (M/S)	DIRECTION IN TENS OF DEGREES 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
0.1 - 1.7	19	24	30	21	14	13	8	11	13	23	40	28	24	26	33	23	19	6	8
1.8 - 3.2	17	24	20	18	16	10	15	16	21	30	29	31	19	18	27	16	14	15	18
3.3 - 5.2	41	44	57	48	42	31	20	56	55	70	62	32	31	51	59	33	23	28	30
5.3 - 8.2	66	72	87	75	74	48	39	56	92	157	190	97	90	106	116	115	66	81	82
8.3 - 11.2	41	37	62	60	42	61	45	58	51	114	163	120	89	65	59	62	52	70	81
11.3 - 14.2	18	19	45	48	62	24	12	25	45	80	95	46	20	19	44	24	7	6	24
14.3 - 17.2	5	5	13	30	34	12	6	15	19	46	46	18	8	2	3	1			3
17.3 - 20.7			3	17	17	9	10	4	21	20	12	1							
20.8 - 24.2					1					1									
24.3 - 28.7																			
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	207	225	317	317	302	208	155	241	317	541	637	373	281	287	341	274	181	206	246

SPEED (M/S)	DIRECTION IN TENS OF DEGREES 20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	VAR	TOTAL
0.1 - 1.7	9	14	9	17	21	14	8	9	7	8	3	6	7	6	16	16	111		664
1.8 - 3.2	24	20	10	21	25	19	9	4	4	6	10	11	7	10	13	13	24		604
3.3 - 5.2	57	45	39	53	77	32	20	9	10	8	5	13	9	5	9	17	44		1265
5.3 - 8.2	86	87	116	135	128	35	18	15	13	4	6	9	5	7	15	38	100		2526
8.3 - 11.2	101	127	134	119	56	7	5	3	1	8	9	4	2	3	13	12	55		1991
11.3 - 14.2	43	56	61	35	5		3	3		1			1	4	2	13	15		905
14.3 - 17.2	10	16	5	3	1	2	1							2	3	7	1		317
17.3 - 20.7		1	5	1			1	1											123
20.8 - 24.2			1	1			1												5
24.3 - 28.7																			
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	330	366	380	385	313	109	66	44	35	35	33	43	31	37	71	116	350		8400

NUMBER OF CALM WIND OCCASIONS = 0

TOTAL NUMBER OF OBSERVATIONS = 8400

TABLE 5(1). TOTAL NUMBER OF OCCURRENCE OF CONCURRENT WIND SPEED AND DIRECTION WITHIN SPECIFIED RANGES : TATE'S CAIRN AWS

JAN 1988 TO DEC 1988

SPEED (M/S)	DIRECTION IN TENS OF DEGREES 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
0.1 - 1.7	10	8	7	6	5	4	4	5	10	14	14	4	16	10	14	13	17	46	44
1.8 - 3.2	13	12	11	7	7	10	13	19	33	33	25	16	10	20	21	33	36	113	122
3.3 - 5.2	45	35	34	21	19	33	31	60	112	144	77	53	39	31	20	32	72	243	171
5.3 - 8.2	148	125	66	37	59	67	59	142	278	477	238	85	58	21	10	25	38	137	72
8.3 - 11.2	76	88	67	16	20	23	15	81	123	386	243	78	20	7	8	4	6	25	10
11.3 - 14.2	41	65	33	11	13	10	1	15	17	167	158	31	11	1	2			3	
14.3 - 17.2	18	28	5		5	4		1	3	27	17	5	1	1	1				
17.3 - 20.7	3	12	2							2									
20.8 - 24.2			1																
24.3 - 28.7																			
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	354	373	226	98	128	151	123	323	576	1250	772	272	155	91	76	107	169	567	419

SPEED (M/S)	DIRECTION IN TENS OF DEGREES 20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	VAR	TOTAL
0.1 - 1.7	30	17	10	6	2	5	6	10	7	9	9	13	14	14	10	10	12		435
1.8 - 3.2	50	18	14	5	5	2	3	8	4	2	2	7	13	13	23	14	17		754
3.3 - 5.2	102	82	48	23	12	6	10	7	2	1	2	1	7	29	25	35	67		1731
5.3 - 8.2	106	126	75	26	4	6	7	3	7	2	2	1	4	4	19	40	93		2667
8.3 - 11.2	61	93	16	1	2	2	1	1				2	2	4	19	35	53		1588
11.3 - 14.2	7	24	1	1			2						1	6	7	3	19		650
14.3 - 17.2	2	1		1			1						1	1	4	4	6		137
17.3 - 20.7		1																	20
20.8 - 24.2																			1
24.3 - 28.7																			
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	358	362	164	63	25	21	30	29	20	14	15	24	42	71	107	141	267		7983

NUMBER OF CALM WIND OCCASIONS = 0

TOTAL NUMBER OF OBSERVATIONS = 7983

TABLE 5(m). TOTAL NUMBER OF OCCURRENCE OF CONCURRENT WIND SPEED AND DIRECTION WITHIN SPECIFIED RANGES : TAMAR AWS

JAN 1988 TO DEC 1988

SPEED (M/S)	DIRECTION IN TENS OF DEGREES 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
0.1 - 1.7	53	65	117	147	170	189	171	85	59	51	54	93	88	91	102	91	115	80	69
1.8 - 3.2	67	75	88	148	275	386	346	125	35	34	25	25	69	71	119	139	133	76	47
3.3 - 5.2	33	24	39	82	266	518	324	66	5	4	3	4	4	4	18	28	30	12	5
5.3 - 8.2	2	6		8	79	149	87	16										1	
8.3 - 11.2					1	4													
11.3 - 14.2																			
14.3 - 17.2																			
17.3 - 20.7																			
20.8 - 24.2																			
24.3 - 28.7																			
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	155	170	244	385	791	1246	928	292	99	89	82	122	161	166	239	258	278	169	121

SPEED (M/S)	DIRECTION IN TENS OF DEGREES 20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	VAR	TOTAL
0.1 - 1.7	45	36	46	36	35	21	10	28	25	69	113	120	111	83	90	70	44	1	2873
1.8 - 3.2	46	31	22	25	37	6	5	7	35	63	131	135	92	69	83	73	65	3	3211
3.3 - 5.2	2	3	4	5				1	15	28	77	54	28	14	23	42	48		1813
5.3 - 8.2										4	14	4	3	2	5	4	8		392
8.3 - 11.2											1								6
11.3 - 14.2																			
14.3 - 17.2																			
17.3 - 20.7																			
20.8 - 24.2																			
24.3 - 28.7																			
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	93	70	72	66	72	27	15	36	75	164	336	313	234	168	201	189	165	4	8295

NUMBER OF CALM WIND OCCASIONS = 0

TOTAL NUMBER OF OBSERVATIONS = 8295

TABLE 5(n). TOTAL NUMBER OF OCCURRENCE OF CONCURRENT WIND SPEED AND DIRECTION WITHIN SPECIFIED RANGES : WAGLAN ISLAND AWS

JAN 1988 TO DEC 1988

SPEED (M/S)	DIRECTION IN TENS OF DEGREES 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
0.1 - 1.7	28	7	2	2	5	5	7	17	17	8	11	14	27	11	13	12	10	11	13
1.8 - 3.2	29	52	23	37	21	23	26	29	23	35	28	16	20	29	20	14	11	24	15
3.3 - 5.2	101	149	119	100	89	69	76	52	59	85	45	29	22	35	54	46	25	33	43
5.3 - 8.2	163	149	150	179	219	243	210	226	158	71	20	21	21	38	43	55	46	51	76
8.3 - 11.2	138	25	15	26	72	149	203	265	188	29	5	1	7	7	9	2	3	7	6
11.3 - 14.2	30	7	3	5	5	28	82	152	177	13	1		2	1					
14.3 - 17.2	2			2	9	1	16	59	49	2									
17.3 - 20.7						2	1	10	7										
20.8 - 24.2																			
24.3 - 28.7																			
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	491	389	312	351	420	520	621	810	678	243	110	81	99	121	139	129	95	126	153

SPEED (M/S)	DIRECTION IN TENS OF DEGREES 20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	VAR	TOTAL
0.1 - 1.7	10	20	10	7	5	4	2	3	6	12	9	11	10	14	23	22	69		457
1.8 - 3.2	28	31	39	19	16	13	11	15	13	23	16	10	5	11	8	20	21		774
3.3 - 5.2	54	53	64	79	39	33	20	36	21	17	10	1	1	5	6	14	57		1741
5.3 - 8.2	62	37	52	137	113	52	24	27	16	12	5	3	4	6	4	37	194		2924
8.3 - 11.2	4	10	45	45	48	20	7	16	3	1	1			2	5	41	231		1636
11.3 - 14.2	1	5	2	2	1	4	1		1						3	13	153		692
14.3 - 17.2	1		2			2	2			1						14	31		193
17.3 - 20.7	1		1	1	1											1	1		26
20.8 - 24.2																			
24.3 - 28.7																			
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	161	156	215	290	223	128	67	97	60	66	41	25	20	38	49	162	757		8443

NUMBER OF CALM WIND OCCASIONS = 0

TOTAL NUMBER OF OBSERVATIONS = 8443

TABLE 5(o). TOTAL NUMBER OF OCCURRENCE OF CONCURRENT WIND SPEED AND DIRECTION WITHIN SPECIFIED RANGES : STAR FERRY AWS

JAN 1988 TO DEC 1988

SPEED (M/S)	DIRECTION IN TENS OF DEGREES 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
0.1 - 1.7		11	57	105	83	38	51	95	130	150	109	56	27	37	38	44	34	20	19
1.8 - 3.2	1	5	26	53	20	10	62	166	282	301	113	37	19	35	77	104	77	32	23
3.3 - 5.2			1			1	33	132	507	965	151	18	18	22	54	80	60	33	33
5.3 - 8.2							1	20	307	964	63	6	7	2	1	4	4	1	2
8.3 - 11.2									20	60	4								1
11.3 - 14.2																			
14.3 - 17.2																			
17.3 - 20.7																			
20.8 - 24.2																			
24.3 - 28.7																			
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	1	16	84	158	103	49	147	413	1246	2440	440	117	71	96	170	232	175	86	78

SPEED (M/S)	DIRECTION IN TENS OF DEGREES 20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	VAR	TOTAL
0.1 - 1.7	13	5	10	8	8	11	17	39	71	106	78	91	150	178	79	9	8		1985
1.8 - 3.2	31	34	21	7	7	9	12	36	89	108	48	23	74	97	64	5	5	1	2114
3.3 - 5.2	45	83	40	18	52	48	31	50	133	72	13	2	4	15	1		5		2720
5.3 - 8.2	6	6	7	11	42	64	31	23	20	32							3		1627
8.3 - 11.2		1		3	3	2	1		3	3									101
11.3 - 14.2				1															1
14.3 - 17.2																			
17.3 - 20.7																			
20.8 - 24.2																			
24.3 - 28.7																			
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	95	129	78	48	112	134	92	148	316	321	139	116	228	290	144	14	21	1	8548

NUMBER OF CALM WIND OCCASIONS = 0

TOTAL NUMBER OF OBSERVATIONS = 8548

TABLE 5(p). TOTAL NUMBER OF OCCURRENCE OF CONCURRENT WIND SPEED AND DIRECTION WITHIN SPECIFIED RANGES : CHEUNG SHA WAN AWS

AUG 1988 TO DEC 1988

SPEED (M/S)	DIRECTION IN TENS OF DEGREES 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
0.1 - 1.7	37	38	44	19	25	29	21	29	48	73	42	39	30	14	6	2		4	2
1.8 - 3.2	26	99	94	74	33	44	35	34	102	153	66	98	55	3	2	3	1		5
3.3 - 5.2	27	64	94	36	15	10	6	4	46	71	14	23	10						
5.3 - 8.2	12	34	54	5				1	3	1									
8.3 - 11.2																			
11.3 - 14.2																			
14.3 - 17.2																			
17.3 - 20.7																			
20.8 - 24.2																			
24.3 - 28.7																			
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	102	235	286	134	73	83	62	68	199	298	122	160	95	17	8	5	1	4	7

SPEED (M/S)	DIRECTION IN TENS OF DEGREES 20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	VAR	TOTAL
0.1 - 1.7	5	22	59	46	23	31	58	7	7	2	2	1	6	3	20	26	23		843
1.8 - 3.2	7	7	15	39	63	17	14	7	2	1						3	7		1109
3.3 - 5.2			9	18	16											8	2		473
5.3 - 8.2																7	3		120
8.3 - 11.2																			
11.3 - 14.2																			
14.3 - 17.2																			
17.3 - 20.7																			
20.8 - 24.2																			
24.3 - 28.7																			
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	12	29	83	103	102	48	72	14	9	3	2	1	6	3	20	44	35		2545

NUMBER OF CALM WIND OCCASIONS = 0

TOTAL NUMBER OF OBSERVATIONS = 2545

TABLE 6(a). PERCENTAGE FREQUENCIES OF OCCURRENCE OF CONCURRENT WIND SPEED AND DIRECTION WITHIN SPECIFIED RANGES : THE ROYAL OBSERVATORY HONG KONG AWS

FEB 1985 TO DEC 1988

SPEED (M/S)	DIRECTION IN TENS OF DEGREES 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
0.1 - 1.7	.92	1.16	1.71	1.20	.68	.56	1.07	2.26	2.19	1.65	.90	.47	.38	.49	.34	.54	.60	.43	.32
1.8 - 3.2	.98	1.27	1.41	.77	.36	.65	1.53	5.40	6.16	3.91	1.47	.43	.22	.33	.17	.29	.86	.49	.29
3.3 - 5.2	.18	.42	.34	.19	.10	.32	1.41	7.23	8.72	4.90	1.19	.17	.11	.11	.06	.04	.09	.09	.07
5.3 - 8.2	.01	.01	.01	.01	.02	.05	.36	1.87	1.73	1.29	.31	.04	.08	.09	.07	.01	.03	*	
8.3 - 11.2						.01	.09	.08	.04	.04	.01	*	*	*					
11.3 - 14.2							.01	.01		.01	*	*							
14.3 - 17.2																			
17.3 - 20.7																			
20.8 - 24.2																			
24.3 - 28.7																			
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	2.08	2.86	3.46	2.17	1.15	1.59	4.49	16.84	18.85	11.79	3.88	1.11	.79	1.03	.64	.87	1.58	1.01	.68

SPEED (M/S)	DIRECTION IN TENS OF DEGREES 20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	VAR	TOTAL
0.1 - 1.7	.24	.42	.31	.19	.18	.41	1.47	2.03	1.40	.65	.22	.09	.06	.07	.08	.19	.72	.01	26.61
1.8 - 3.2	.33	.63	.52	.26	.21	.62	2.08	1.91	.74	.15	.11	.06	.04	.05	.05	.11	.79		35.65
3.3 - 5.2	.09	.26	.34	.26	.14	.53	1.17	.46	.21	.12	.07	.07	.02	.03	.02	.04	.22		29.77
5.3 - 8.2	.02	.05	.09	.06	.07	.08	.04	.04	.03	.02	.01	.01	.01		.01	.02	.01		6.56
8.3 - 11.2		.01	.02	.01	.01	.01	.01	.01	.02	.01	.01								.37
11.3 - 14.2																			.04
14.3 - 17.2																			
17.3 - 20.7																			
20.8 - 24.2																			
24.3 - 28.7																			
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	.68	1.37	1.28	.77	.61	1.64	4.76	4.46	2.40	.95	.41	.23	.12	.14	.16	.37	1.74	.01	98.99

PERCENTAGE FREQUENCY OF CALM WIND CONDITION = 1.01

TOTAL NUMBER OF OBSERVATIONS = 31362

(* DENOTES PERCENTAGE FREQUENCY OF OCCURRENCE IS LESS THAN 0.01 %) Type of data : 60 minute Mean Wind ending on the hour

TABLE 6(b). PERCENTAGE FREQUENCIES OF OCCURRENCE OF CONCURRENT WIND SPEED AND DIRECTION WITHIN SPECIFIED RANGES : SHA TIN AWS

OCT 1984 TO DEC 1988

SPEED (M/S)	DIRECTION IN TENS OF DEGREES 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
0.1 - 1.7	1.42	1.85	2.19	2.00	1.71	1.55	1.89	2.08	1.92	1.92	1.72	1.27	.82	.55	.48	.50	.51	.70	.80
1.8 - 3.2	1.26	2.26	2.65	3.32	2.31	1.69	1.94	2.02	1.75	2.21	2.21	2.12	1.42	.71	.35	.32	.32	.42	.54
3.3 - 5.2	.27	.44	.73	1.12	1.30	.87	1.11	1.02	.58	.80	.91	.81	.69	.39	.16	.14	.09	.10	.19
5.3 - 8.2	.04	.06	.09	.16	.11	.12	.12	.08	.09	.06	.05	.03	.02	.03	.01	.01	.02	.01	.01
8.3 - 11.2		.01	.01		*	.02	*							.01	*				
11.3 - 14.2														*					
14.3 - 17.2																			
17.3 - 20.7																			
20.8 - 24.2																			
24.3 - 28.7																			
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	2.99	4.62	5.67	6.60	5.44	4.25	5.07	5.20	4.34	5.00	4.89	4.23	2.95	1.68	1.00	.96	.95	1.23	1.53

SPEED (M/S)	DIRECTION IN TENS OF DEGREES 20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	VAR	TOTAL
0.1 - 1.7	1.04	1.29	1.42	1.43	1.15	.93	.63	.41	.41	.54	.68	.65	.70	.57	.68	.80	1.13	.13	40.47
1.8 - 3.2	.62	1.01	1.18	1.10	.80	.47	.07	.01	.02	.02	.01	.03	.04	.21	.49	.55	.90	.07	37.43
3.3 - 5.2	.24	.93	.85	1.56	1.10	.60	.16	.01	.01	.01	*	.01	.05	.14	.28	.30	.36	.03	18.38
5.3 - 8.2	.02	.07	.18	.65	.55	.07	.05						.01	.01	.04	.02	.10		2.89
8.3 - 11.2	.01	.01	*	.03	.02												*		.12
11.3 - 14.2																			*
14.3 - 17.2																			
17.3 - 20.7																			
20.8 - 24.2																			
24.3 - 28.7																			
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	1.92	3.32	3.64	4.77	3.62	2.07	.91	.44	.43	.57	.69	.68	.80	.93	1.48	1.66	2.49	.23	99.28

PERCENTAGE FREQUENCY OF CALM WIND CONDITION = .72

TOTAL NUMBER OF OBSERVATIONS = 33833

(* DENOTES PERCENTAGE FREQUENCY OF OCCURRENCE IS LESS THAN 0.01 %) Type of data : 60 minute Mean Wind ending on the hour

TABLE 6(c). PERCENTAGE FREQUENCIES OF OCCURRENCE OF CONCURRENT WIND SPEED AND DIRECTION WITHIN SPECIFIED RANGES : CHEK LAP KOK AWS

SEP 1984 TO DEC 1988

SPEED (M/S)	DIRECTION IN TENS OF DEGREES 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
0.1 - 1.7	.23	.25	.44	.64	.68	.70	.87	.68	.68	.62	.59	.47	.41	.28	.33	.34	.35	.37	.31
1.8 - 3.2	.48	.58	.64	.88	.84	.84	.87	.83	.75	.81	.71	.32	.16	.06	.08	.18	.31	.49	.46
3.3 - 5.2	1.38	1.35	1.03	.68	.57	.76	1.00	1.71	1.92	1.65	1.77	.75	.18	.08	.22	.47	.76	1.01	.73
5.3 - 8.2	1.07	1.04	.59	.29	.21	.60	1.12	2.41	4.35	3.52	2.68	1.17	.31	.14	.26	.28	.75	.65	.32
8.3 - 11.2	.22	.18	.11	.07	.05	.29	.96	1.14	3.12	2.02	.65	.24	.08	.08	.05	.03	.04	.05	.03
11.3 - 14.2	.03	.03	*	.01	.01	.06	.18	.33	.97	.56	.08	.03	.02	.02	.02	.02	.01	.01	.01
14.3 - 17.2	*					.02	.11	.06	.30	.08	.01	*	.01	.01			.01		
17.3 - 20.7							.02	.02	.02	.03	*				.01	.01		.01	
20.8 - 24.2									.01	.01	*								
24.3 - 28.7										*	.01	*							
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	3.41	3.43	2.82	2.57	2.36	3.28	5.13	7.18	12.13	9.31	6.50	2.99	1.16	.67	.97	1.33	2.23	2.60	1.85

SPEED (M/S)	DIRECTION IN TENS OF DEGREES 20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	VAR	TOTAL
0.1 - 1.7	.24	.18	.16	.19	.24	.24	.33	.34	.46	.45	.45	.50	.34	.33	.20	.26	.29	.01	14.46
1.8 - 3.2	.35	.21	.21	.17	.21	.34	.39	.59	.74	.55	.73	.50	.30	.20	.21	.24	.38	*	16.63
3.3 - 5.2	.50	.26	.32	.26	.33	.36	.41	.73	.68	.60	.80	.71	.55	.38	.43	.67	1.39		27.42
5.3 - 8.2	.20	.15	.18	.20	.24	.12	.09	.07	.05	.17	.33	.56	.57	.54	.47	.76	1.17		27.62
8.3 - 11.2	.02	.03	.03	.03	.02	.01		.01	.01	.02	.05	.21	.18	.13	.09	.07	.14		10.47
11.3 - 14.2	.01	.01	.01	.01	.01		*	.01			.02	.02	.04	.01	*	.01	.02		2.58
14.3 - 17.2		*						*	*	*	.01	*	.01	*					.64
17.3 - 20.7								.01	.01	.01	.01	.01	.01						.15
20.8 - 24.2								*											.02
24.3 - 28.7																			.01
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	1.31	.85	.91	.86	1.05	1.06	1.22	1.76	1.95	1.79	2.39	2.51	1.99	1.59	1.41	2.01	3.41	.01	100.00

PERCENTAGE FREQUENCY OF CALM WIND CONDITION = .00

TOTAL NUMBER OF OBSERVATIONS = 33147

(* DENOTES PERCENTAGE FREQUENCY OF OCCURRENCE IS LESS THAN 0.01 %)

Type of data : 60 minute Mean Wind ending on the hour

TABLE 6(d). PERCENTAGE FREQUENCIES OF OCCURRENCE OF CONCURRENT WIND SPEED AND DIRECTION WITHIN SPECIFIED RANGES : AWS AT HONG KONG INTERNATIONAL TERMINALS, KWAI CHUNG

MAY 1985 TO DEC 1988

SPEED (M/S)	DIRECTION IN TENS OF DEGREES 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
0.1 - 1.7	.35	.39	.66	1.77	2.59	2.46	1.41	.82	.54	.51	.42	.58	.62	.59	.50	.60	.77	1.19	1.91
1.8 - 3.2	.41	.37	.59	3.70	5.75	5.67	3.61	1.67	1.58	1.28	.74	1.00	.77	.46	.23	.17	.37	.67	1.26
3.3 - 5.2	.47	.27	.32	2.34	1.92	2.58	2.40	1.37	1.76	2.01	1.57	1.77	1.37	.61	.15	.14	.17	.25	.55
5.3 - 8.2	.14	.05	.06	.59	.23	.13	.18	.15	.38	.58	.46	.96	.74	.10	.04	.04	.08	.06	.03
8.3 - 11.2	.02			.01		*	.03			.03	.03	.03	*	.02	.02	*	.01	*	.01
11.3 - 14.2										.01	.01	*		*			.01		
14.3 - 17.2												.01	.01				*	.01	
17.3 - 20.7																			
20.8 - 24.2																			
24.3 - 28.7																			
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	1.39	1.08	1.63	8.42	10.49	10.84	7.62	4.00	4.25	4.42	3.23	4.35	3.51	1.77	.95	.95	1.41	2.17	3.76

SPEED (M/S)	DIRECTION IN TENS OF DEGREES 20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	VAR	TOTAL
0.1 - 1.7	2.37	1.71	1.02	.87	.60	.64	.51	.43	.40	.49	.68	.63	.69	.64	.35	.21	.29	.01	31.19
1.8 - 3.2	2.03	1.62	.73	.32	.11	.23	.19	.16	.09	.16	.19	.18	.21	.28	.13	.17	.25		37.37
3.3 - 5.2	1.07	.46	.13	.07	.02	.09	.09	.08	.04	.06	.11	.11	.15	.13	.12	.14	.37		25.26
5.3 - 8.2	.10	.05	.04	.03	.01	.01	.02	.01	*	.02	.04	.05	.07	.05	.01	.01	.08		5.59
8.3 - 11.2		*	*	.01					*	.02	.01		.03	.03					.33
11.3 - 14.2														*					.04
14.3 - 17.2			*																.03
17.3 - 20.7																			
20.8 - 24.2																			
24.3 - 28.7																			
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	5.56	3.85	1.93	1.30	.74	.98	.81	.67	.53	.74	1.05	.97	1.15	1.12	.61	.54	.99	.01	99.80

PERCENTAGE FREQUENCY OF CALM WIND CONDITION = .20

TOTAL NUMBER OF OBSERVATIONS = 29809

(* DENOTES PERCENTAGE FREQUENCY OF OCCURRENCE IS LESS THAN 0.01 %) Type of data : 60 minute Mean Wind ending on the hour

TABLE 6(e). PERCENTAGE FREQUENCIES OF OCCURRENCE OF CONCURRENT WIND SPEED AND DIRECTION WITHIN SPECIFIED RANGES : LAU FAU SHAN AWS

OCT 1985 TO DEC 1988

SPEED (M/S)	DIRECTION IN TENS OF DEGREES 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
0.1 - 1.7	.39	.30	.21	.37	.53	.65	.85	1.04	1.10	1.06	.95	1.10	.95	.79	.53	.19	.04	.09	.13
1.8 - 3.2	.81	.77	.83	1.22	1.80	2.66	2.74	2.18	1.76	1.66	1.92	2.27	2.16	1.31	.99	.52	.25	.24	.31
3.3 - 5.2	1.29	1.01	1.09	2.32	2.85	3.25	2.61	1.58	1.29	1.09	.84	1.42	2.45	1.53	1.13	.77	.35	.39	.38
5.3 - 8.2	.58	.41	.45	1.31	1.24	.75	1.08	.56	.62	.59	.27	.27	.98	.63	.42	.24	.13	.15	.28
8.3 - 11.2	.03	.02	.02	.08	.04	.03	.08	.09	.12	.03	.02	.01	.08	.04	.03	.02	.02	.06	.03
11.3 - 14.2								*	*	.01								.02	
14.3 - 17.2																		.01	*
17.3 - 20.7																			
20.8 - 24.2																			
24.3 - 28.7																			
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	3.09	2.51	2.60	5.30	6.46	7.33	7.36	5.46	4.89	4.44	4.00	5.07	6.62	4.30	3.11	1.74	.78	.94	1.13

SPEED (M/S)	DIRECTION IN TENS OF DEGREES 20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	VAR	TOTAL
0.1 - 1.7	.09	.09	.09	.11	.18	.20	.17	.22	.17	.24	.26	.30	.23	.32	.25	.19	.31		14.70
1.8 - 3.2	.24	.19	.17	.26	.65	.59	.51	.38	.25	.27	.28	.39	.32	.22	.27	.30	.53		32.22
3.3 - 5.2	.28	.33	.32	.64	1.49	1.36	.69	.26	.12	.20	.22	.16	.23	.24	.18	.29	.73		35.35
5.3 - 8.2	.34	.31	.31	.42	.58	.70	.16	.02	.03	.15	.11	.09	.28	.21	.13	.36	.72		15.88
8.3 - 11.2	.07	.08	.01	.03	.01	*	.02	.01	.01	.02	.02	.03	.05	.02	.03	.14	.28		1.66
11.3 - 14.2	.02	.01			*		.02				.01	*		*	.01	*	.03		.14
14.3 - 17.2		*	*								.01	.01	.01						.05
17.3 - 20.7										*	.01								.01
20.8 - 24.2																			
24.3 - 28.7																			
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	1.04	1.01	.91	1.47	2.91	2.85	1.55	.89	.58	.88	.91	.97	1.12	1.02	.88	1.28	2.59		100.00

PERCENTAGE FREQUENCY OF CALM WIND CONDITION = .00

TOTAL NUMBER OF OBSERVATIONS = 26465

(* DENOTES PERCENTAGE FREQUENCY OF OCCURRENCE IS LESS THAN 0.01 %) Type of data : 60 minute Mean Wind ending on the hour

TABLE 6(f). PERCENTAGE FREQUENCIES OF OCCURRENCE OF CONCURRENT WIND SPEED AND DIRECTION WITHIN SPECIFIED RANGES : TA KWU LING AWS

JAN 1986 TO DEC 1988

SPEED (M/S)	DIRECTION IN TENS OF DEGREES 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
0.1 - 1.7	1.39	.82	.60	.43	.35	.31	.27	.28	.57	.86	1.32	1.81	1.63	1.70	1.60	1.42	1.16	.96	.75
1.8 - 3.2	1.64	.71	.38	.23	.12	.08	.09	.24	.70	2.20	4.78	4.80	2.94	1.68	.68	.54	.27	.19	.19
3.3 - 5.2	1.53	1.05	.49	.30	.06	.09	.07	.19	.96	4.10	7.07	5.25	2.06	.62	.27	.25	.12	.04	.09
5.3 - 8.2	.99	1.03	.61	.26	.03	.02	.05	.06	.24	1.03	1.63	1.77	.62	.07	.01			.01	*
8.3 - 11.2	.04	.07	.06	.02			*	.03	.01	.06	.09	.06	.04						
11.3 - 14.2	.04		*																
14.3 - 17.2																			
17.3 - 20.7																			
20.8 - 24.2																			
24.3 - 28.7																			
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	5.64	3.67	2.15	1.24	.56	.49	.48	.81	2.48	8.25	14.88	13.70	7.30	4.06	2.56	2.20	1.55	1.21	1.05

SPEED (M/S)	DIRECTION IN TENS OF DEGREES 20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	VAR	TOTAL
0.1 - 1.7	.69	.77	.79	.61	.69	.65	.54	.51	.64	.87	1.16	1.17	.89	.64	.53	.61	1.25	.11	31.38
1.8 - 3.2	.30	.44	.49	.42	.47	.46	.32	.26	.40	.32	.47	.37	.37	.30	.29	.64	1.38	.06	30.20
3.3 - 5.2	.18	.31	.50	.39	.28	.17	.11	.06	.07	.15	.13	.09	.07	.08	.15	.38	1.12	.04	28.89
5.3 - 8.2	.02	.02	.01	.01	.01	*	*				.01	.01		*	.01	.05	.32	*	8.93
8.3 - 11.2	.01															.01	.05		.55
11.3 - 14.2																	*		.05
14.3 - 17.2																			
17.3 - 20.7																			
20.8 - 24.2																			
24.3 - 28.7																			
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	1.19	1.55	1.79	1.43	1.44	1.28	.97	.82	1.11	1.33	1.79	1.63	1.33	1.03	.98	1.69	4.13	.22	100.00

PERCENTAGE FREQUENCY OF CALM WIND CONDITION = .00

TOTAL NUMBER OF OBSERVATIONS = 24649

(* DENOTES PERCENTAGE FREQUENCY OF OCCURRENCE IS LESS THAN 0.01 %) Type of data : 60 minute Mean Wind ending on the hour

TABLE 6(g). PERCENTAGE FREQUENCIES OF OCCURRENCE OF CONCURRENT WIND SPEED AND DIRECTION WITHIN SPECIFIED RANGES : AWS AT MOBIL OIL DEPOT, TSING YI

APR 1987 TO DEC 1988

SPEED (M/S)	DIRECTION IN TENS OF DEGREES 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
0.1 - 1.7	.73	.98	.86	1.06	.87	.60	.82	.90	.86	.40	.42	.42	.44	.41	.80	1.14	2.01	1.98	1.27
1.8 - 3.2	.91	.75	.75	1.02	1.12	1.73	2.42	3.77	3.07	1.53	1.18	.79	1.06	1.11	1.06	1.03	1.95	2.83	2.45
3.3 - 5.2	.33	.34	.42	.58	.70	1.04	1.49	2.85	3.53	1.51	1.07	1.49	2.12	1.91	1.12	.78	.86	2.60	1.76
5.3 - 8.2	.04	.02	.03	.12	.08	.14	.13	.20	.41	.20	.17	.47	.57	.52	.45	.06	.15	.73	.32
8.3 - 11.2								.01	.01									.01	.01
11.3 - 14.2																			
14.3 - 17.2																			
17.3 - 20.7																			
20.8 - 24.2																			
24.3 - 28.7																			
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	2.00	2.10	2.06	2.78	2.77	3.51	4.86	7.72	7.88	3.64	2.85	3.16	4.19	3.94	3.43	3.02	4.97	8.15	5.81

SPEED (M/S)	DIRECTION IN TENS OF DEGREES 20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	VAR	TOTAL
0.1 - 1.7	.89	.60	.46	.34	.28	.20	.17	.40	.50	.97	1.58	1.61	.93	.88	.54	.31	.35	.04	28.01
1.8 - 3.2	1.22	.74	.40	.14	.03	.01	.05	.22	.27	.45	.91	.74	.32	.42	.37	.29	.61		37.75
3.3 - 5.2	.84	.29	.02				.01	.14	.17	.16	.31	.10	.04	.04	.06	.09	.42	.01	29.19
5.3 - 8.2	.04	.01									.07				.01	.04	.05		5.02
8.3 - 11.2																			.03
11.3 - 14.2																			
14.3 - 17.2																			
17.3 - 20.7																			
20.8 - 24.2																			
24.3 - 28.7																			
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	3.00	1.65	.88	.47	.31	.22	.24	.76	.93	1.58	2.87	2.45	1.29	1.33	.97	.73	1.43	.04	100.00

PERCENTAGE FREQUENCY OF CALM WIND CONDITION = .00

TOTAL NUMBER OF OBSERVATIONS = 13918

(* DENOTES PERCENTAGE FREQUENCY OF OCCURRENCE IS LESS THAN 0.01 %) Type of data : 60 minute Mean Wind ending on the hour

TABLE 6(h). PERCENTAGE FREQUENCIES OF OCCURRENCE OF CONCURRENT WIND SPEED AND DIRECTION WITHIN SPECIFIED RANGES : AWS AT HONG KONG UNITED DOCKYARDS, TSING YI

APR 1987 TO DEC 1988

SPEED (M/S)	DIRECTION IN TENS OF DEGREES 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
0.1 - 1.7	1.07	.59	.45	.94	2.74	.85	1.14	2.71	3.57	2.20	2.01	1.30	1.07	1.08	1.36	1.79	1.51	.72	.66
1.8 - 3.2	.54	.23	.19	.12	.37	.59	.75	.99	1.78	3.70	4.35	2.66	1.65	1.38	1.37	3.00	2.47	1.15	1.25
3.3 - 5.2	.17	.02	.02	.02	.06	.16	.12	.33	1.24	2.96	4.39	1.89	.95	.78	.79	.36	.41	.19	.19
5.3 - 8.2	.03						.02	.02	.36	1.26	1.57	.42	.08	.05	.02				
8.3 - 11.2									.01	.07	.02								
11.3 - 14.2																			
14.3 - 17.2																			
17.3 - 20.7																			
20.8 - 24.2																			
24.3 - 28.7																			
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	1.81	.83	.66	1.08	3.17	1.60	2.02	4.04	6.96	10.19	12.33	6.26	3.75	3.30	3.54	5.14	4.38	2.06	2.10

SPEED (M/S)	DIRECTION IN TENS OF DEGREES 20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	VAR	TOTAL
0.1 - 1.7	.75	.42	.30	.36	.20	.21	.30	.41	.80	.73	.33	.42	.64	.80	1.26	1.07	1.27	.03	38.04
1.8 - 3.2	.92	.43	.11	.04	.02	.03	.06	.24	.76	.83	.42	.40	.66	.93	1.51	.87	.62		37.40
3.3 - 5.2	.22	.11	.04	.05		.01	.04	.19	.42	.31	.20	.22	.37	1.27	1.06	.27	.16		19.96
5.3 - 8.2	.01		.01	.01			.01	.03	.03	.01	.01	.01	.02	.24	.17		.03		4.41
8.3 - 11.2															.02				.12
11.3 - 14.2																			
14.3 - 17.2																			
17.3 - 20.7																			
20.8 - 24.2																			
24.3 - 28.7																			
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	1.90	.96	.46	.45	.23	.25	.41	.87	2.01	1.87	.95	1.05	1.70	3.25	4.03	2.21	2.09	.03	99.93

PERCENTAGE FREQUENCY OF CALM WIND CONDITION = .07

TOTAL NUMBER OF OBSERVATIONS = 12818

(* DENOTES PERCENTAGE FREQUENCY OF OCCURRENCE IS LESS THAN 0.01 %) Type of data : 60 minute Mean Wind ending on the hour

TABLE 6(i). PERCENTAGE FREQUENCIES OF OCCURRENCE OF CONCURRENT WIND SPEED AND DIRECTION WITHIN SPECIFIED RANGES : AWS AT CHING PAK HOUSE, TSING YI

APR 1987 TO DEC 1988

SPEED (M/S)	DIRECTION IN TENS OF DEGREES 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
0.1 - 1.7	.51	.64	.51	.46	.53	.20	.25	.36	.89	.59	.69	.81	1.32	1.76	1.61	1.88	2.20	2.31	1.32
1.8 - 3.2	.20	.47	.96	.82	.71	.47	.55	1.24	2.08	1.82	2.04	3.29	3.50	3.21	3.27	1.97	2.56	2.82	1.90
3.3 - 5.2	.09	.39	.77	.60	.59	.61	.60	1.23	.93	.93	1.50	2.43	1.93	1.20	.65	.41	1.58	2.25	.67
5.3 - 8.2	.03	.11	.29	.28	.16	.23	.44	.32	.17	.19	.26	.59	.29	.26	.08	.02	.20	.28	.05
8.3 - 11.2		.02		.02	.03	.05	.03		.01	.02		.04	.01					.01	
11.3 - 14.2						.02													
14.3 - 17.2																			
17.3 - 20.7																			
20.8 - 24.2																			
24.3 - 28.7																			
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	.83	1.62	2.53	2.17	2.02	1.57	1.87	3.14	4.08	3.55	4.50	7.16	7.05	6.44	5.61	4.27	6.54	7.66	3.95

SPEED (M/S)	DIRECTION IN TENS OF DEGREES 20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	VAR	TOTAL
0.1 - 1.7	1.26	.88	.81	.46	.20	.26	.68	1.15	.74	.30	.36	.41	.76	.90	1.15	.94	.67	.01	30.80
1.8 - 3.2	1.24	.47	.24	.05	.03	.02	.24	.59	.55	.28	.14	.28	.26	.32	.87	.84	.20		40.55
3.3 - 5.2	.28	.02	.01	.02		.01	.07	.41	.15	.10	.05	.13	.23	.17	.88	.80	.05		22.70
5.3 - 8.2	.02						.01	.01			.01	.09	.10	.04	.47	.55	.02		5.51
8.3 - 11.2												.01	.02		.05	.11			.41
11.3 - 14.2																			.02
14.3 - 17.2																			
17.3 - 20.7																			
20.8 - 24.2																			
24.3 - 28.7																			
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	2.79	1.37	1.06	.53	.23	.29	1.00	2.16	1.44	.68	.56	.92	1.37	1.43	3.41	3.23	.93	.01	99.98

PERCENTAGE FREQUENCY OF CALM WIND CONDITION = .02

TOTAL NUMBER OF OBSERVATIONS = 13297

(* DENOTES PERCENTAGE FREQUENCY OF OCCURRENCE IS LESS THAN 0.01 %)

Type of data : 60 minute Mean Wind ending on the hour

TABLE 6(j). PERCENTAGE FREQUENCIES OF OCCURRENCE OF CONCURRENT WIND SPEED AND DIRECTION WITHIN SPECIFIED RANGES : TUEN MUN AWS

OCT 1987 TO DEC 1988

SPEED (M/S)	DIRECTION IN TENS OF DEGREES 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
0.1 - 1.7	3.83	3.41	2.92	1.33	.63	.29	.17	.19	.17	.25	.36	.50	.83	.80	.92	1.44	1.83	1.55	1.12
1.8 - 3.2	1.90	3.91	3.41	1.36	.18	.09	.03	.09	.07	.14	.37	.29	.33	1.51	1.78	2.46	2.85	1.81	.91
3.3 - 5.2	.52	1.06	3.99	1.76	.11	.02		.02		.05	.17	.25	.32	1.26	1.23	1.43	1.39	.29	.07
5.3 - 8.2	.06	.11	1.20	1.78	.05						.05	.05	.01	.18	.02	.06	.07	.03	
8.3 - 11.2			.07	.23															
11.3 - 14.2				.02															
14.3 - 17.2				.14															
17.3 - 20.7																			
20.8 - 24.2																			
24.3 - 28.7																			
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	6.31	8.49	11.59	6.60	.97	.41	.20	.31	.24	.43	.95	1.09	1.48	3.75	3.95	5.38	6.15	3.69	2.10

SPEED (M/S)	DIRECTION IN TENS OF DEGREES 20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	VAR	TOTAL
0.1 - 1.7	1.36	2.22	1.34	.37	.32	.27	.27	.29	.49	.54	.61	.86	1.06	.96	.96	3.06	3.56	.02	41.12
1.8 - 3.2	1.46	1.88	.72	.23	.11	.15	.12	.16	.23	.67	.54	.49	.89	.45	.55	1.40	1.77		35.32
3.3 - 5.2	.14	.20		.05		.02	.03	.02	.09	.20	.27	.20	.32	.16	.11	.95	1.39		18.11
5.3 - 8.2							.01				.01		.02			.45	.63		4.79
8.3 - 11.2													.01			.05	.15		.50
11.3 - 14.2																			.02
14.3 - 17.2																			.14
17.3 - 20.7																			
20.8 - 24.2																			
24.3 - 28.7																			
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	2.96	4.30	2.06	.65	.43	.44	.44	.48	.80	1.42	1.44	1.55	2.31	1.57	1.63	5.91	7.50	.02	100.00

PERCENTAGE FREQUENCY OF CALM WIND CONDITION = .00

TOTAL NUMBER OF OBSERVATIONS = 8830

(* DENOTES PERCENTAGE FREQUENCY OF OCCURRENCE IS LESS THAN 0.01 %)

Type of data : 60 minute Mean Wind ending on the hour

TABLE 6(k). PERCENTAGE FREQUENCIES OF OCCURRENCE OF CONCURRENT WIND SPEED AND DIRECTION WITHIN SPECIFIED RANGES : TAI MO SHAN AWS

JAN 1988 TO DEC 1988

SPEED (M/S)	DIRECTION IN TENS OF DEGREES 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
0.1 - 1.7	.23	.29	.36	.25	.17	.15	.10	.13	.15	.27	.48	.33	.29	.31	.39	.27	.23	.07	.10
1.8 - 3.2	.20	.29	.24	.21	.19	.12	.18	.19	.25	.36	.35	.37	.23	.21	.32	.19	.17	.18	.21
3.3 - 5.2	.49	.52	.68	.57	.50	.37	.24	.67	.65	.83	.74	.38	.37	.61	.70	.39	.27	.33	.36
5.3 - 8.2	.79	.86	1.04	.89	.88	.57	.46	.67	1.10	1.87	2.26	1.15	1.07	1.26	1.38	1.37	.79	.96	.98
8.3 - 11.2	.49	.44	.74	.71	.50	.73	.54	.69	.61	1.36	1.94	1.43	1.06	.77	.70	.74	.62	.83	.96
11.3 - 14.2	.21	.23	.54	.57	.74	.29	.14	.30	.54	.95	1.13	.55	.24	.23	.52	.29	.08	.07	.29
14.3 - 17.2	.06	.06	.15	.36	.40	.14	.07	.18	.23	.55	.55	.21	.10	.02	.04	.01			.04
17.3 - 20.7			.04	.20	.20	.11	.12	.05	.25	.24	.14	.01							
20.8 - 24.2					.01					.01									
24.3 - 28.7																			
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	2.46	2.68	3.77	3.77	3.60	2.48	1.85	2.87	3.77	6.44	7.58	4.44	3.35	3.42	4.06	3.26	2.15	2.45	2.93

SPEED (M/S)	DIRECTION IN TENS OF DEGREES 20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	VAR	TOTAL
0.1 - 1.7	.11	.17	.11	.20	.25	.17	.10	.11	.08	.10	.04	.07	.08	.07	.19	.19	1.32		7.90
1.8 - 3.2	.29	.24	.12	.25	.30	.23	.11	.05	.05	.07	.12	.13	.08	.12	.15	.15	.29		7.19
3.3 - 5.2	.68	.54	.46	.63	.92	.38	.24	.11	.12	.10	.06	.15	.11	.06	.11	.20	.52		15.06
5.3 - 8.2	1.02	1.04	1.38	1.61	1.52	.42	.21	.18	.15	.05	.07	.11	.06	.08	.18	.45	1.19		30.07
8.3 - 11.2	1.20	1.51	1.60	1.42	.67	.08	.06	.04	.01	.10	.11	.05	.02	.04	.15	.14	.65		23.70
11.3 - 14.2	.51	.67	.73	.42	.06		.04	.04		.01			.01	.05	.02	.15	.18		10.77
14.3 - 17.2	.12	.19	.06	.04	.01	.02	.01							.02	.04	.08	.01		3.77
17.3 - 20.7		.01	.06	.01			.01	.01											1.46
20.8 - 24.2			.01	.01			.01												.06
24.3 - 28.7																			
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	3.93	4.36	4.52	4.58	3.73	1.30	.79	.52	.42	.42	.39	.51	.37	.44	.85	1.38	4.17		100.00

PERCENTAGE FREQUENCY OF CALM WIND CONDITION = .00

TOTAL NUMBER OF OBSERVATIONS = 8400

(* DENOTES PERCENTAGE FREQUENCY OF OCCURRENCE IS LESS THAN 0.01 %) Type of data : 60 minute Mean Wind ending on the hour

TABLE 6(1). PERCENTAGE FREQUENCIES OF OCCURRENCE OF CONCURRENT WIND SPEED AND DIRECTION WITHIN SPECIFIED RANGES : TATE'S CAIRN AWS

JAN 1988 TO DEC 1988

SPEED (M/S)	DIRECTION IN TENS OF DEGREES 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
0.1 - 1.7	.13	.10	.09	.08	.06	.05	.05	.06	.13	.18	.18	.05	.20	.13	.18	.16	.21	.58	.55
1.8 - 3.2	.16	.15	.14	.09	.09	.13	.16	.24	.41	.41	.31	.20	.13	.25	.26	.41	.45	1.42	1.53
3.3 - 5.2	.56	.44	.43	.26	.24	.41	.39	.75	1.40	1.80	.96	.66	.49	.39	.25	.40	.90	3.04	2.14
5.3 - 8.2	1.85	1.57	.83	.46	.74	.84	.74	1.78	3.48	5.98	2.98	1.06	.73	.26	.13	.31	.48	1.72	.90
8.3 - 11.2	.95	1.10	.84	.20	.25	.29	.19	1.01	1.54	4.84	3.04	.98	.25	.09	.10	.05	.08	.31	.13
11.3 - 14.2	.51	.81	.41	.14	.16	.13	.01	.19	.21	2.09	1.98	.39	.14	.01	.03			.04	
14.3 - 17.2	.23	.35	.06		.06	.05		.01	.04	.34	.21	.06	.01	.01	.01				
17.3 - 20.7	.04	.15	.03							.03									
20.8 - 24.2			.01																
24.3 - 28.7																			
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	4.43	4.67	2.83	1.23	1.60	1.89	1.54	4.05	7.22	15.66	9.67	3.41	1.94	1.14	.95	1.34	2.12	7.10	5.25

SPEED (M/S)	DIRECTION IN TENS OF DEGREES 20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	VAR	TOTAL
0.1 - 1.7	.38	.21	.13	.08	.03	.06	.08	.13	.09	.11	.11	.16	.18	.18	.13	.13	.15		5.45
1.8 - 3.2	.63	.23	.18	.06	.06	.03	.04	.10	.05	.03	.03	.09	.16	.16	.29	.18	.21		9.45
3.3 - 5.2	1.28	1.03	.60	.29	.15	.08	.13	.09	.03	.01	.03	.01	.09	.36	.31	.44	.84		21.68
5.3 - 8.2	1.33	1.58	.94	.33	.05	.08	.09	.04	.09	.03	.03	.01	.05	.05	.24	.50	1.16		33.41
8.3 - 11.2	.76	1.16	.20	.01	.03	.03	.01	.01				.03	.03	.05	.24	.44	.66		19.89
11.3 - 14.2	.09	.30	.01	.01			.03						.01	.08	.09	.04	.24		8.14
14.3 - 17.2	.03	.01		.01			.01						.01	.01	.05	.05	.08		1.72
17.3 - 20.7		.01																	.25
20.8 - 24.2																			.01
24.3 - 28.7																			
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	4.48	4.53	2.05	.79	.31	.26	.38	.36	.25	.18	.19	.30	.53	.89	1.34	1.77	3.34		100.00

PERCENTAGE FREQUENCY OF CALM WIND CONDITION = .00

TOTAL NUMBER OF OBSERVATIONS = 7983

(* DENOTES PERCENTAGE FREQUENCY OF OCCURRENCE IS LESS THAN 0.01 %) Type of data : 60 minute Mean Wind ending on the hour

TABLE 6(m). PERCENTAGE FREQUENCIES OF OCCURRENCE OF CONCURRENT WIND SPEED AND DIRECTION WITHIN SPECIFIED RANGES : TAMAR AWS

JAN 1988 TO DEC 1988

SPEED (M/S)	DIRECTION IN TENS OF DEGREES 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
0.1 - 1.7	.64	.78	1.41	1.77	2.05	2.28	2.06	1.02	.71	.61	.65	1.12	1.06	1.10	1.23	1.10	1.39	.96	.83
1.8 - 3.2	.81	.90	1.06	1.78	3.32	4.65	4.17	1.51	.42	.41	.30	.30	.83	.86	1.43	1.68	1.60	.92	.57
3.3 - 5.2	.40	.29	.47	.99	3.21	6.24	3.91	.80	.06	.05	.04	.05	.05	.05	.22	.34	.36	.14	.06
5.3 - 8.2	.02	.07		.10	.95	1.80	1.05	.19										.01	
8.3 - 11.2					.01	.05													
11.3 - 14.2																			
14.3 - 17.2																			
17.3 - 20.7																			
20.8 - 24.2																			
24.3 - 28.7																			
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	1.87	2.05	2.94	4.64	9.54	15.02	11.19	3.52	1.19	1.07	.99	1.47	1.94	2.00	2.88	3.11	3.35	2.04	1.46

SPEED (M/S)	DIRECTION IN TENS OF DEGREES 20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	VAR	TOTAL
0.1 - 1.7	.54	.43	.55	.43	.42	.25	.12	.34	.30	.83	1.36	1.45	1.34	1.00	1.08	.84	.53	.01	34.64
1.8 - 3.2	.55	.37	.27	.30	.45	.07	.06	.08	.42	.76	1.58	1.63	1.11	.83	1.00	.88	.78	.04	38.71
3.3 - 5.2	.02	.04	.05	.06				.01	.18	.34	.93	.65	.34	.17	.28	.51	.58		21.86
5.3 - 8.2										.05	.17	.05	.04	.02	.06	.05	.10		4.73
8.3 - 11.2											.01								.07
11.3 - 14.2																			
14.3 - 17.2																			
17.3 - 20.7																			
20.8 - 24.2																			
24.3 - 28.7																			
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	1.12	.84	.87	.80	.87	.33	.18	.43	.90	1.98	4.05	3.77	2.82	2.03	2.42	2.28	1.99	.05	100.00

PERCENTAGE FREQUENCY OF CALM WIND CONDITION = .00

TOTAL NUMBER OF OBSERVATIONS = 8295

(* DENOTES PERCENTAGE FREQUENCY OF OCCURRENCE IS LESS THAN 0.01 %)

Type of data : 60 minute Mean Wind ending on the hour

TABLE 6(n). PERCENTAGE FREQUENCIES OF OCCURRENCE OF CONCURRENT WIND SPEED AND DIRECTION WITHIN SPECIFIED RANGES : WAGLAN ISLAND AWS

JAN 1988 TO DEC 1988

SPEED (M/S)	DIRECTION IN TENS OF DEGREES 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
0.1 - 1.7	.33	.08	.02	.02	.06	.06	.08	.20	.20	.09	.13	.17	.32	.13	.15	.14	.12	.13	.15
1.8 - 3.2	.34	.62	.27	.44	.25	.27	.31	.34	.27	.41	.33	.19	.24	.34	.24	.17	.13	.28	.18
3.3 - 5.2	1.20	1.76	1.41	1.18	1.05	.82	.90	.62	.70	1.01	.53	.34	.26	.41	.64	.54	.30	.39	.51
5.3 - 8.2	1.93	1.76	1.78	2.12	2.59	2.88	2.49	2.68	1.87	.84	.24	.25	.25	.45	.51	.65	.54	.60	.90
8.3 - 11.2	1.63	.30	.18	.31	.85	1.76	2.40	3.14	2.23	.34	.06	.01	.08	.08	.11	.02	.04	.08	.07
11.3 - 14.2	.36	.08	.04	.06	.06	.33	.97	1.80	2.10	.15	.01		.02	.01					
14.3 - 17.2	.02			.02	.11	.01	.19	.70	.58	.02									
17.3 - 20.7						.02	.01	.12	.08										
20.8 - 24.2																			
24.3 - 28.7																			
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	5.82	4.61	3.70	4.16	4.97	6.16	7.36	9.59	8.03	2.88	1.30	.96	1.17	1.43	1.65	1.53	1.13	1.49	1.81

SPEED (M/S)	DIRECTION IN TENS OF DEGREES 20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	VAR	TOTAL
0.1 - 1.7	.12	.24	.12	.08	.06	.05	.02	.04	.07	.14	.11	.13	.12	.17	.27	.26	.82		5.41
1.8 - 3.2	.33	.37	.46	.23	.19	.15	.13	.18	.15	.27	.19	.12	.06	.13	.09	.24	.25		9.17
3.3 - 5.2	.64	.63	.76	.94	.46	.39	.24	.43	.25	.20	.12	.01	.01	.06	.07	.17	.68		20.62
5.3 - 8.2	.73	.44	.62	1.62	1.34	.62	.28	.32	.19	.14	.06	.04	.05	.07	.05	.44	2.30		34.63
8.3 - 11.2	.05	.12	.53	.53	.57	.24	.08	.19	.04	.01	.01			.02	.06	.49	2.74		19.38
11.3 - 14.2	.01	.06	.02	.02	.01	.05	.01		.01						.04	.15	1.81		8.20
14.3 - 17.2	.01		.02			.02	.02			.01						.17	.37		2.29
17.3 - 20.7	.01		.01	.01	.01											.01	.01		.31
20.8 - 24.2																			
24.3 - 28.7																			
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	1.91	1.85	2.55	3.43	2.64	1.52	.79	1.15	.71	.78	.49	.30	.24	.45	.58	1.92	8.97		100.00

PERCENTAGE FREQUENCY OF CALM WIND CONDITION = .00

TOTAL NUMBER OF OBSERVATIONS = 8443

(* DENOTES PERCENTAGE FREQUENCY OF OCCURRENCE IS LESS THAN 0.01 %) Type of data : 60 minute Mean Wind ending on the hour

TABLE 6(o). PERCENTAGE FREQUENCIES OF OCCURRENCE OF CONCURRENT WIND SPEED AND DIRECTION WITHIN SPECIFIED RANGES : STAR FERRY AWS

JAN 1988 TO DEC 1988

SPEED (M/S)	DIRECTION IN TENS OF DEGREES 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
0.1 - 1.7		.13	.67	1.23	.97	.44	.60	1.11	1.52	1.75	1.28	.66	.32	.43	.44	.51	.40	.23	.22
1.8 - 3.2	.01	.06	.30	.62	.23	.12	.73	1.94	3.30	3.52	1.32	.43	.22	.41	.90	1.22	.90	.37	.27
3.3 - 5.2			.01			.01	.39	1.54	5.93	11.29	1.77	.21	.21	.26	.63	.94	.70	.39	.39
5.3 - 8.2							.01	.23	3.59	11.28	.74	.07	.08	.02	.01	.05	.05	.01	.02
8.3 - 11.2									.23	.70	.05								.01
11.3 - 14.2																			
14.3 - 17.2																			
17.3 - 20.7																			
20.8 - 24.2																			
24.3 - 28.7																			
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	.01	.19	.98	1.85	1.20	.57	1.72	4.83	14.58	28.54	5.15	1.37	.83	1.12	1.99	2.71	2.05	1.01	.91

SPEED (M/S)	DIRECTION IN TENS OF DEGREES 20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	VAR	TOTAL
0.1 - 1.7	.15	.06	.12	.09	.09	.13	.20	.46	.83	1.24	.91	1.06	1.75	2.08	.92	.11	.09		23.22
1.8 - 3.2	.36	.40	.25	.08	.08	.11	.14	.42	1.04	1.26	.56	.27	.87	1.13	.75	.06	.06	.01	24.73
3.3 - 5.2	.53	.97	.47	.21	.61	.56	.36	.58	1.56	.84	.15	.02	.05	.18	.01		.06		31.82
5.3 - 8.2	.07	.07	.08	.13	.49	.75	.36	.27	.23	.37							.04		19.03
8.3 - 11.2		.01		.04	.04	.02	.01		.04	.04									1.18
11.3 - 14.2				.01															.01
14.3 - 17.2																			
17.3 - 20.7																			
20.8 - 24.2																			
24.3 - 28.7																			
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	1.11	1.51	.91	.56	1.31	1.57	1.08	1.73	3.70	3.76	1.63	1.36	2.67	3.39	1.68	.16	.25	.01	100.00

PERCENTAGE FREQUENCY OF CALM WIND CONDITION = .00

TOTAL NUMBER OF OBSERVATIONS = 8548

(* DENOTES PERCENTAGE FREQUENCY OF OCCURRENCE IS LESS THAN 0.01 %) Type of data : 60 minute Mean Wind ending on the hour

TABLE 6(p). PERCENTAGE FREQUENCIES OF OCCURRENCE OF CONCURRENT WIND SPEED AND DIRECTION WITHIN SPECIFIED RANGES : CHEUNG SHA WAN AWS

AUG 1988 TO DEC 1988

SPEED (M/S)	DIRECTION IN TENS OF DEGREES 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
0.1 - 1.7	1.45	1.49	1.73	.75	.98	1.14	.83	1.14	1.89	2.87	1.65	1.53	1.18	.55	.24	.08		.16	.08
1.8 - 3.2	1.02	3.89	3.69	2.91	1.30	1.73	1.38	1.34	4.01	6.01	2.59	3.85	2.16	.12	.08	.12	.04		.20
3.3 - 5.2	1.06	2.51	3.69	1.41	.59	.39	.24	.16	1.81	2.79	.55	.90	.39						
5.3 - 8.2	.47	1.34	2.12	.20				.04	.12	.04									
8.3 - 11.2																			
11.3 - 14.2																			
14.3 - 17.2																			
17.3 - 20.7																			
20.8 - 24.2																			
24.3 - 28.7																			
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	4.01	9.23	11.24	5.27	2.87	3.26	2.44	2.67	7.82	11.71	4.79	6.29	3.73	.67	.31	.20	.04	.16	.28

SPEED (M/S)	DIRECTION IN TENS OF DEGREES 20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	VAR	TOTAL
0.1 - 1.7	.20	.86	2.32	1.81	.90	1.22	2.28	.28	.28	.08	.08	.04	.24	.12	.79	1.02	.90		33.12
1.8 - 3.2	.28	.28	.59	1.53	2.48	.67	.55	.28	.08	.04						.12	.28		43.58
3.3 - 5.2			.35	.71	.63											.31	.08		18.59
5.3 - 8.2																.28	.12		4.72
8.3 - 11.2																			
11.3 - 14.2																			
14.3 - 17.2																			
17.3 - 20.7																			
20.8 - 24.2																			
24.3 - 28.7																			
28.8 - 32.7																			
G. E. 32.8																			
TOTAL	.47	1.14	3.26	4.05	4.01	1.89	2.83	.55	.35	.12	.08	.04	.24	.12	.79	1.73	1.38		100.00

PERCENTAGE FREQUENCY OF CALM WIND CONDITION = .00

TOTAL NUMBER OF OBSERVATIONS = 2545

(* DENOTES PERCENTAGE FREQUENCY OF OCCURRENCE IS LESS THAN 0.01 %) Type of data : 60 minute Mean Wind ending on the hour

TABLE 7. PREVAILING WIND DIRECTIONS AT AWS

STATION	PERIOD	JAN		FEB		MAR		APR		MAY		JUN	
		Dir	%	Dir	%	Dir	%	Dir	%	Dir	%	Dir	%
RO	Feb 85-Dec 88	090	62	090	62	090	51	090	59	090	52	090	34
SHA	Oct 84-Dec 88	030	24	090	21	030	21	090	19	090	18	240	20
CLK	Sep 84-Dec 88	090	32	090	35	090	30	090	38	090	37	090	27
HIT	May 85-Dec 88	060	43	060	38	060&090	24	060	33	060	25	180	21
LFS	Oct 85-Dec 88	060	28	060	26	060	21	060	25	120	24	150	23
TKL	Jan 86-Dec 88	120	37	120	41	120	44	120	54	120	51	120	34
MBL	Apr 87-Dec 88	090	31	090	26	090	28	090	25	180	30	180	42
HUD	Apr 87-Dec 88	090	28	120	40	330	22	120	32	120	28	150	28
CPH	Apr 87-Dec 88	150	24	150	29	120	23	120	31	120	35	180	39
TUN	Oct 87-Dec 88	030	34	030	39	030	42	030	25	150	31	150	39
TMS	Jan 88-Dec 88	360	30	120	42	120	23	120	24	210	28	210	29
TC	Jan 88-Dec 88	120	29	120	40	090	25	090	32	090	25	180	47
TMR	Jan 88-Dec 88	060	58	060	63	060	36	060	45	060	29	150	27
WL	Jan 88-Dec 88	090	29	090	36	030	32	030	30	090	28	210	20
SF	Jan 88-Dec 88	090	64	090	73	090	55	090	64	090	47	150	26
CSW	Aug 88-DEC 88	---------- Not yet operational ----------											

STATION	JUL		AUG		SEP		OCT		NOV		DEC		ANNUAL	
	Dir	%	Dir	%	Dir	%	Dir	%	Dir	%	Dir	%	Dir	%
RO	270	24	090	36	090	46	090	60	090	43	090	46	090	48
SHA	210	25	240	25	030	19	030	20	030	26	030	23	030	17
CLK	090	20	090	23	090	27	090	34	030&090	21	090	24	090	29
HIT	210	27	210	24	060	30	060	37	060	43	060	41	060	29
LFS	120	25	120	23	060	17	060	25	060	30	060	34	060	21
TKL	120	29	120	29	120	30	120	35	360	22	120	27	120	36
MBL	180	34	180	32	090	21	090	32	090	24	060	18	090	19
HUD	180	20	090	24	090	26	120	30	120	20	090	24	120	22
CPH	180	31	180	28	090	19	120	24	030	20	090	14	120	19
TUN	300	20	360	34	360	59	360	39	030	50	030	35	030	27
TMS	210	22	210	31	240	16	090	38	030	36	030	27	120	15
TC	180	35	180	38	090	23	090	56	090	37	090	49	090	27
TMR	150	22	150	18	060	29	060	32	060	45	060	53	060	36
WL	240	20	240	22	090	23	090	48	360	40	060	47	090	21
SF	090	21	090	29	090	35	090	68	090	46	090	62	090	48
CSW	Not operational		240	56	030	38	090	35	030	40	090	23	Insufficient data	

Note : Percentage frequencies indicated by figures to the right of directions

TABLE 8. MAXIMUM HOURLY MEAN WIND SPEEDS AND GUSTS RECORDED BY AWS

Station	Period	Maximum mean speed		Maximum gust	
		m/s	Time of occurrence (YYMMDDHH)	m/s	Time of occurrence (YYMMDDHH)
RO	84-88	13.9	85090523	30.5	85090605
SHA	84-88	11.3	85090610	22.2	86071210
CLK	84-88	27.0	85090603	39.4	85090603
HIT	85-88	16.8	85090606	28.1	85090605
LFS	85-88	18.4	86071120	29.5	86071211
TKL	86-88	12.3	87112814	28.7	87112901
MBL	87-88	10.1	88071924	34.1	88071924
HUD	87-88	10.3	88031603	19.8	88102213
CPH	87-88	12.0	88102212	23.7	88102212
TUN	87-88	16.5	87112820	33.4	87112816
TMS	87-88	24.2	88072001	34.4	88072005
TC	87-88	20.9	88102712	36.8	88071924
TMR	87-88	10.5	88091712	25.5	88071921
WL	87-88	19.5	88102214	31.4	88071919
SF	87-88	12.4	88071922	27.2	88071922
CSW	Aug-Dec 88	8.1	88102718	19.5	88102722

Note : YYMMDDHH represents year-month-day-hour Hong Kong Time.
For example, 85090523 represents 2300 hours 5 SEP 1985.

TABLE 9(a). AWS MEAN WIND SPEEDS CORRESPONDING TO SPECIFIED SPEEDS AT THE ROYAL OBSERVATORY AWS

NORTHERLY WINDS

ROAWS m/s	SHA m/s	CLK m/s	HIT m/s	LFS m/s	TKL m/s	MBL m/s	HUD m/s	CPH m/s	TUN m/s	TMS m/s	TC m/s	TMR m/s	WL m/s	SF m/s
0	1.97	4.44	2.90	3.47	2.82	1.90	1.84	2.24	3.14	6.28	6.41	1.50	6.90	0.91
1	2.43	4.68	3.04	4.11	3.38	2.14	2.25	2.55	3.58	6.83	7.18	1.93	8.09	1.18
2	2.82	5.06	2.98	4.73	4.18	2.70	2.67	3.40	3.96	8.24	8.46	2.40	8.67	1.51
3	3.84	6.26	3.04	5.81	5.17	3.32	3.51	4.53	4.60	10.27	10.79	3.31	10.08	1.95
4	4.51	7.28	3.40	6.52	6.24	4.10	3.88	5.48	5.31	14.07	14.53	4.30	12.81	2.42
5	5.27	8.76	4.23	7.76	7.09	4.39	4.13	5.73	8.50	13.84	15.09	4.81	13.73	2.99
6	4.90	9.46	5.09	8.98	10.27	7.20	4.50	7.50	15.50	*****	*****	*****	*****	*****
7	4.80	12.77	8.99	13.23	5.77	*****	*****	*****	*****	*****	*****	*****	*****	*****
8	5.60	15.00	8.70	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****

NO WIND SPEEDS EXCEEDING 8 m/s AT THE ROAWS

CORRELATION	0.9179	0.9687	0.8863	0.9399	0.7288	0.9307	0.9822	0.9865	0.8663	0.9639	0.9786	0.9926	0.9762	0.9952
DATA PAIRS	9	9	9	8	8	7	7	7	7	6	6	6	6	6
START DATE	4.2.85	4.2.85	16.5.85	17.10.85	17.1.86	1.4.87	1.4.87	1.4.87	23.10.87	8.12.87	8.12.87	8.12.87	8.12.87	15.12.87
END DATE	31.12.88	31.12.88	31.12.88	31.12.88	31.12.88	31.12.88	31.12.88	31.12.88	31.12.88	31.12.88	31.12.88	31.12.88	31.12.88	31.12.88

TABLE 9(b). AWS MEAN WIND SPEEDS CORRESPONDING TO SPECIFIED SPEEDS AT THE ROYAL OBSERVATORY AWS

EASTERLY WINDS

ROAWS m/s	SHA m/s	CLK m/s	HIT m/s	LFS m/s	TKL m/s	MBL m/s	HUD m/s	CPH m/s	TUN m/s	TMS m/s	TC m/s	TMR m/s	WL m/s	SF m/s
0	0.76	2.25	1.30	2.52	2.05	1.30	1.18	1.13	0.65	7.68	5.55	0.91	4.09	1.04
1	1.15	3.15	1.77	2.70	2.42	1.77	1.49	1.49	1.01	6.47	5.22	1.38	4.50	1.75
2	1.24	4.05	2.24	2.73	2.63	2.27	1.87	2.19	1.04	6.92	5.84	2.00	6.08	2.89
3	1.57	5.40	2.70	2.99	3.11	2.87	2.47	2.82	1.54	6.91	6.67	2.73	7.13	4.04
4	2.23	6.96	3.32	3.59	3.85	3.59	3.37	3.42	2.28	7.99	8.06	3.57	8.74	5.31
5	2.80	8.74	3.93	4.30	4.60	4.23	4.23	4.15	2.60	9.98	10.12	4.10	10.68	6.46
6	3.34	10.53	4.51	5.16	5.27	4.73	5.14	4.85	2.80	12.30	11.78	4.76	11.98	7.36
7	4.07	12.59	5.18	6.35	5.92	5.42	5.52	5.96	3.45	15.51	13.03	4.20	14.56	8.37
8	4.38	14.13	6.39	7.28	6.38	6.20	5.59	7.35	2.90	15.45	13.97	2.46	17.08	9.14
9	5.41	14.23	6.76	7.93	6.95	6.84	5.28	7.78	*****	18.45	14.95	2.45	18.50	10.30
10	6.07	15.79	7.90	8.81	7.70	4.50	3.40	5.60	*****	*****	*****	*****	*****	*****
11	5.87	17.28	8.32	9.71	7.93	7.00	6.20	8.90	*****	*****	*****	*****	*****	*****
12	6.78	23.58	11.98	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
13	6.10	24.20	14.03	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
14	*****	24.50	13.30	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****

NO WIND SPEEDS EXCEEDING 14 m/s AT THE ROAWS

CORRELATION	0.9819	0.9855	0.9616	0.9859	0.9966	0.9070	0.8106	0.9426	0.9432	0.9663	0.9925	0.3937	0.9940	0.9982
DATA PAIRS	14	15	15	12	12	12	12	12	9	10	10	10	10	10
START DATE	4.2.85	4.2.85	16.5.85	17.10.85	17.1.86	1.4.87	1.4.87	1.4.87	23.10.87	8.12.87	8.12.87	8.12.87	8.12.87	15.12.87
END DATE	31.12.88	31.12.88	31.12.88	31.12.88	31.12.88	31.12.88	31.12.88	31.12.88	31.12.88	31.12.88	31.12.88	31.12.88	31.12.88	31.12.88

TABLE 9(c). AWS MEAN WIND SPEEDS CORRESPONDING TO SPECIFIED SPEEDS AT THE ROYAL OBSERVATORY AWS

SOUTHERLY WINDS

ROAWS m/s	SHA m/s	CLK m/s	HIT m/s	LFS m/s	TKL m/s	MBL m/s	HUD m/s	CPH m/s	TUN m/s	TMS m/s	TC m/s	TMR m/s	WL m/s	SF m/s
0	1.26	2.41	0.70	2.34	1.21	1.50	1.26	1.38	2.48	7.07	4.24	1.43	3.58	1.58
1	1.55	3.29	1.29	2.90	1.54	1.95	1.69	2.12	2.36	7.79	3.59	1.90	4.50	2.31
2	2.32	4.39	2.38	3.78	2.15	2.95	2.11	2.99	2.88	8.08	4.12	2.43	5.44	3.12
3	3.22	5.20	2.94	4.45	2.56	3.56	2.40	3.52	3.19	9.79	5.28	2.77	6.24	3.85
4	3.86	5.74	3.47	5.78	2.90	3.62	2.47	3.61	2.99	11.58	7.12	2.53	7.72	4.62
5	3.80	7.23	4.53	6.95	3.45	3.74	2.50	3.94	2.76	13.35	9.32	2.64	9.34	5.83
6	5.29	8.98	5.82	8.22	3.62	4.16	2.73	3.92	3.11	17.10	9.80	2.76	10.77	5.45
7	6.11	9.87	6.29	8.73	3.64	4.60	2.79	4.55	3.18	12.73	10.70	2.62	11.33	5.70
8	8.63	12.13	8.78	11.72	6.97	4.90	3.15	5.70	3.40	20.80	10.45	2.80	12.50	6.90
9	5.70	11.60	8.30	11.37	4.30	6.10	*****	3.70	*****	*****	13.10	4.60	17.35	9.15
10	*****	11.10	*****	8.80	*****	6.40	*****	3.70	*****	*****	17.40	6.20	*****	*****
11	*****	15.70	14.30	17.00	*****	10.10	*****	5.90	*****	*****	16.70	*****	17.80	*****

NO WIND SPEEDS EXCEEDING 11 m/s AT THE ROAWS

CORRELATION	0.8984	0.9700	0.9605	0.9151	0.8274	0.8994	0.9630	0.7479	0.7556	0.8984	0.9738	0.7780	0.9786	0.9567
DATA PAIRS	10	12	11	12	10	12	9	12	9	9	12	11	11	10
START DATE	4.2.85	4.2.85	16.5.85	17.10.85	17.1.86	1.4.87	1.4.87	1.4.87	23.10.87	8.12.87	8.12.87	8.12.87	8.12.87	15.12.87
END DATE	31.12.88	31.12.88	31.12.88	31.12.88	31.12.88	31.12.88	31.12.88	31.12.88	31.12.88	31.12.88	31.12.88	31.12.88	31.12.88	31.12.88

TABLE 9(d). AWS MEAN WIND SPEEDS CORRESPONDING TO SPECIFIED SPEEDS AT THE ROYAL OBSERVATORY AWS

WESTERLY WINDS

ROAWS m/s	SHA m/s	CLK m/s	HIT m/s	LFS m/s	TKL m/s	MBL m/s	HUD m/s	CPH m/s	TUN m/s	TMS m/s	TC m/s	TMR m/s	WL m/s	SF m/s
0	1.39	2.03	0.35	2.35	0.96	1.29	1.39	0.98	0.92	6.47	3.24	1.12	3.08	1.34
1	2.22	2.64	0.62	2.83	1.18	1.68	1.74	1.37	1.42	6.23	3.75	1.75	4.01	1.95
2	2.73	3.16	1.09	3.43	1.75	2.20	2.09	1.71	1.63	5.47	3.99	2.34	5.20	2.73
3	3.62	4.14	2.02	4.31	2.40	2.78	2.59	2.11	1.80	6.08	4.46	2.83	6.11	4.08
4	4.42	4.92	2.90	4.98	2.94	3.08	3.03	3.06	1.65	6.80	5.61	3.63	7.46	5.34
5	5.11	6.17	3.83	6.31	3.13	3.30	3.36	3.23	2.70	8.86	6.44	3.97	8.34	6.79
6	5.72	8.20	4.28	9.09	3.49	4.25	3.97	3.65	3.54	12.36	9.02	4.84	11.21	7.80
7	4.42	11.88	5.81	11.28	4.28	*****	*****	*****	*****	9.80	*****	*****	*****	8.50
8	5.01	10.55	7.27	*****	3.07	*****	7.50	5.50	*****	21.60	15.20	4.80	14.90	6.60
9	4.56	15.61	8.22	15.35	5.86	*****	5.50	4.40	3.80	15.20	15.60	6.50	17.50	10.20
10	4.45	15.95	8.85	18.40	5.90	*****	*****	*****	*****	*****	*****	*****	*****	*****
11	*****	18.60	9.40	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****

NO WIND SPEEDS EXCEEDING 11 m/s AT THE ROAWS

CORRELATION	0.6877	0.9756	0.9943	0.9760	0.9248	0.9823	0.9078	0.9481	0.9268	0.8313	0.9552	0.9721	0.9851	0.9370
DATA PAIRS	11	12	12	10	11	7	9	9	8	10	9	9	9	10
START DATE	4.2.85	4.2.85	16.5.85	17.10.85	17.1.86	1.4.87	1.4.87	1.4.87	23.10.87	8.12.87	8.12.87	8.12.87	8.12.87	15.12.87
END DATE	31.12.88	31.12.88	31.12.88	31.12.88	31.12.88	31.12.88	31.12.88	31.12.88	31.12.88	31.12.88	31.12.88	31.12.88	31.12.88	31.12.88

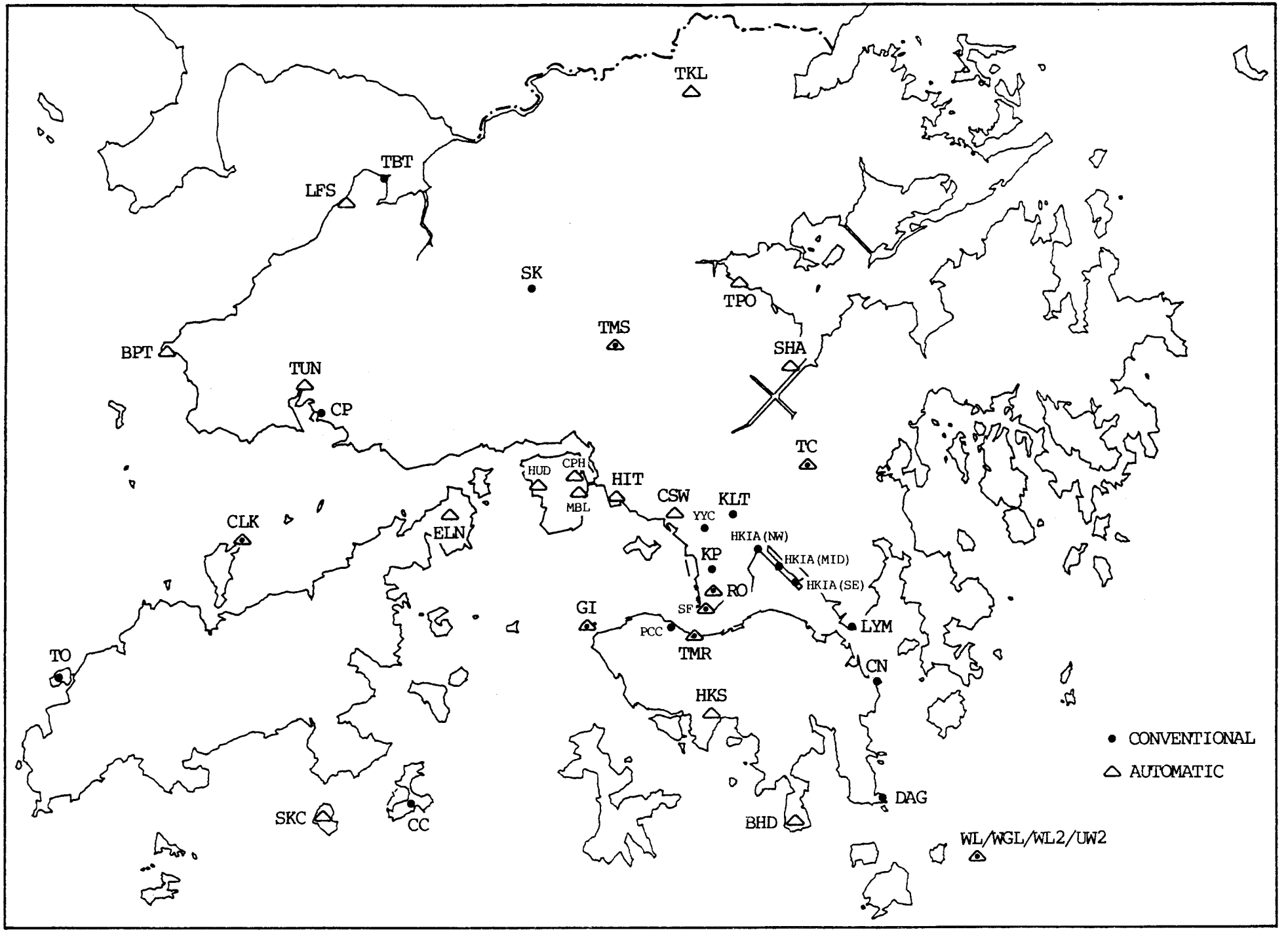


Fig. 1(a) Anemometer stations in Hong Kong.

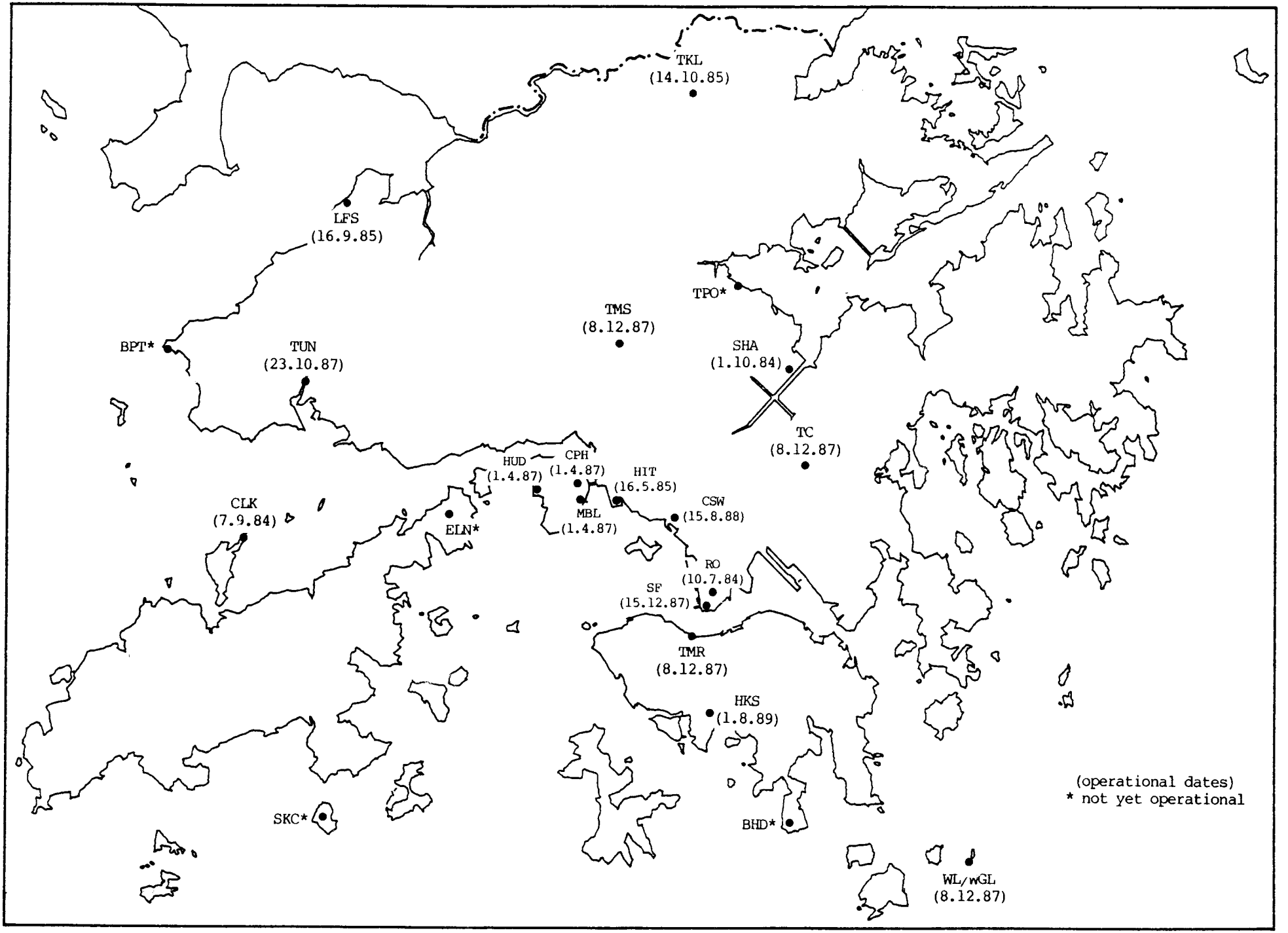


Fig. 1(b) Automatic weather stations.

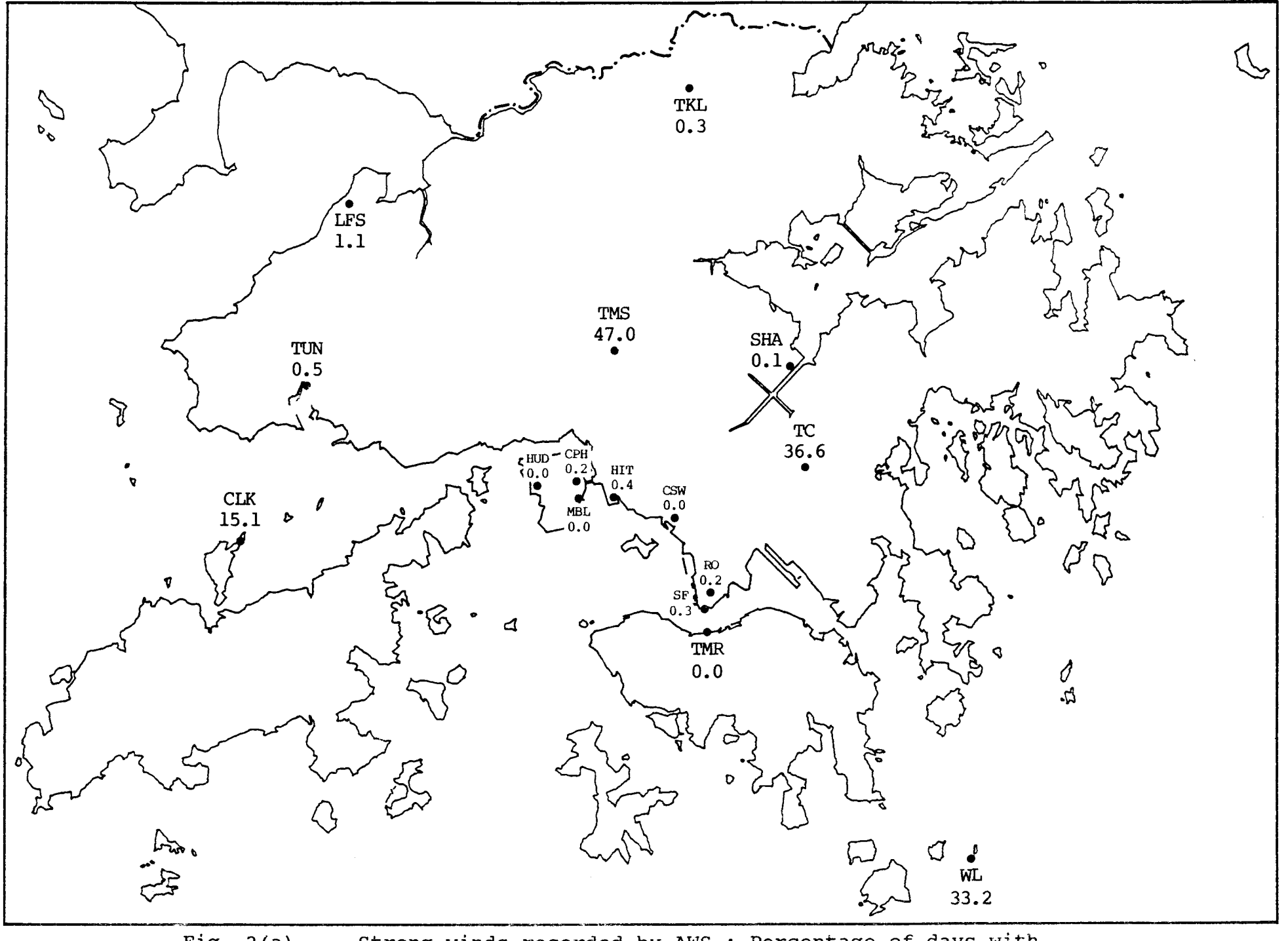


Fig. 2(a) Strong winds recorded by AWS : Percentage of days with hourly mean wind speeds reaching Force 6 or above (annual).

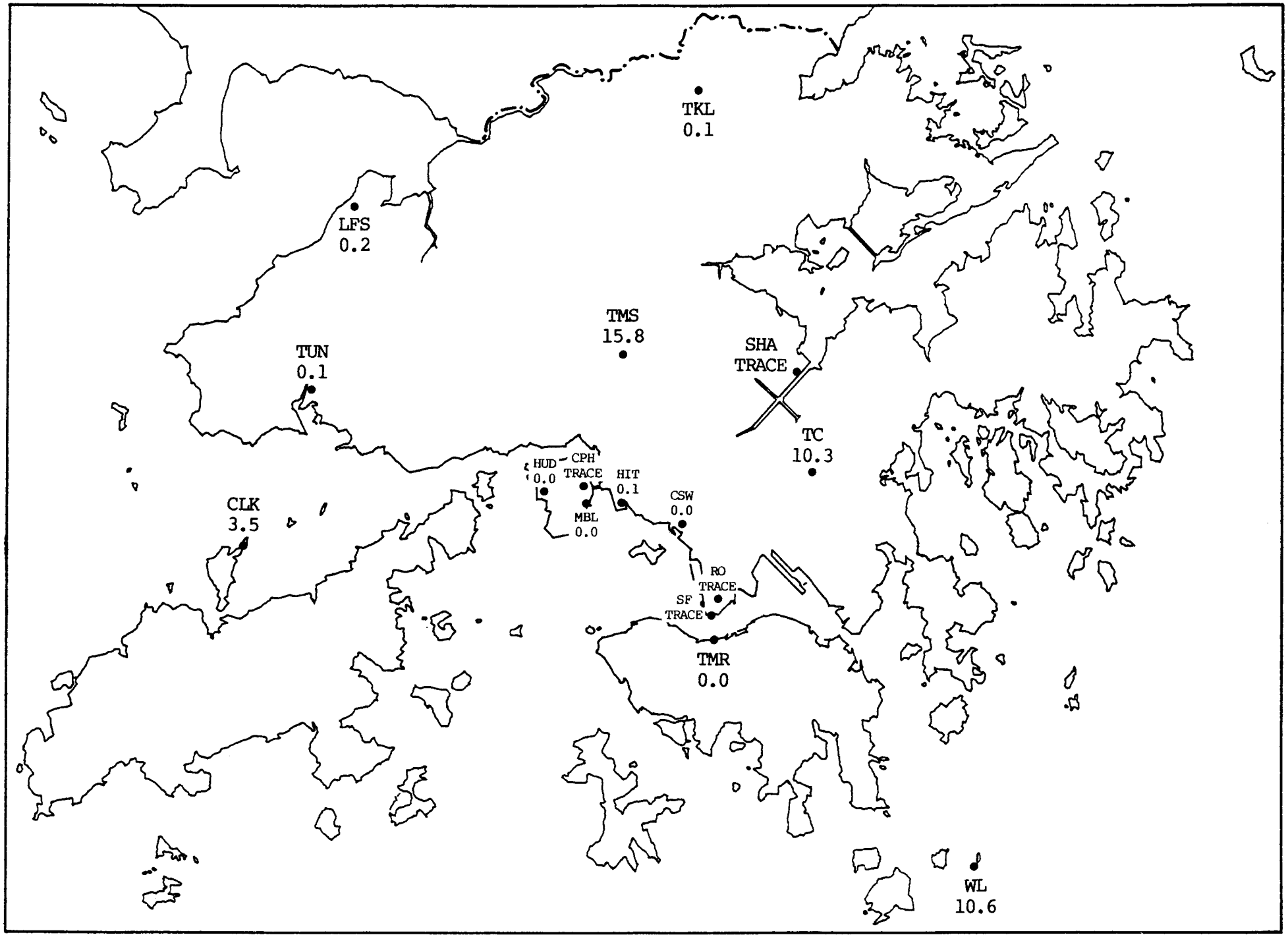


Fig. 2(b) Strong winds recorded by AWS : Percentage of hours with hourly mean wind speeds reaching Force 6 or above (annual).

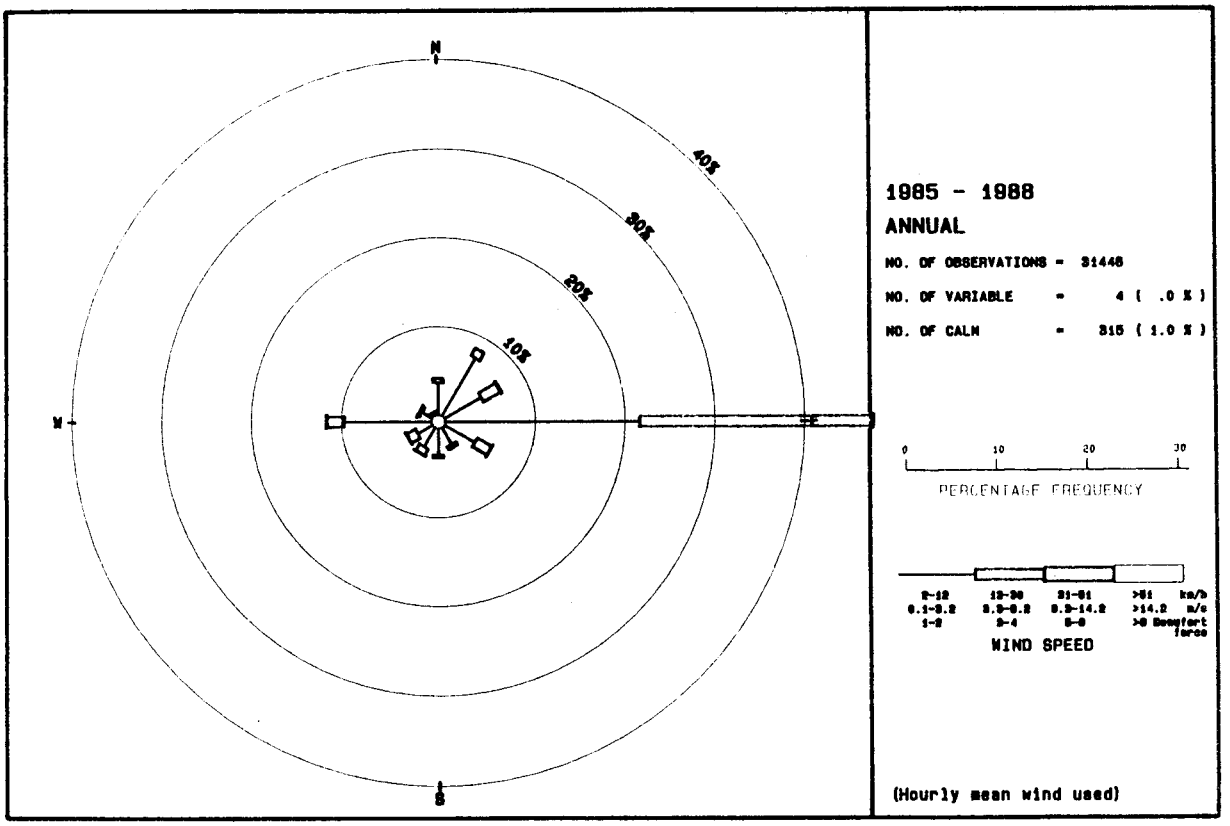


Fig. 3(a) Wind rose for the Royal Observatory AWS.

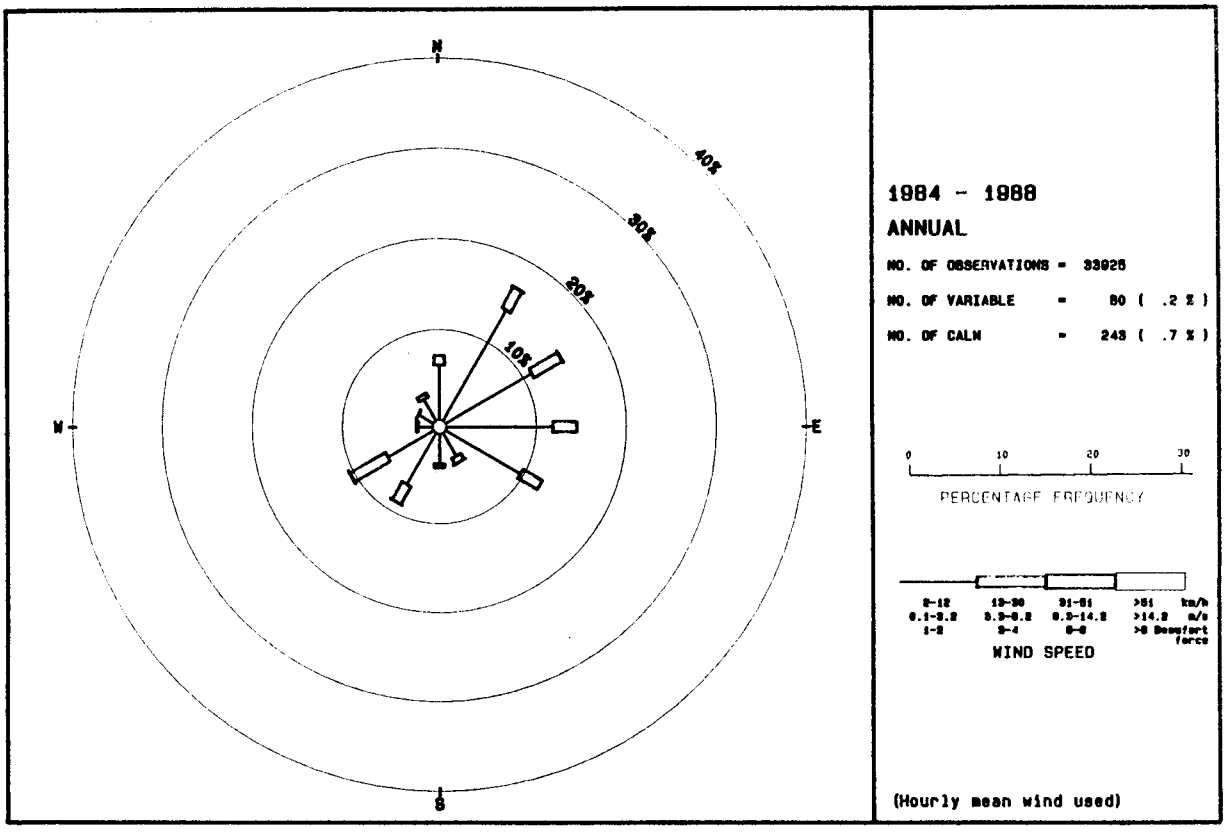


Fig. 3(b) Wind rose for Sha Tin AWS.

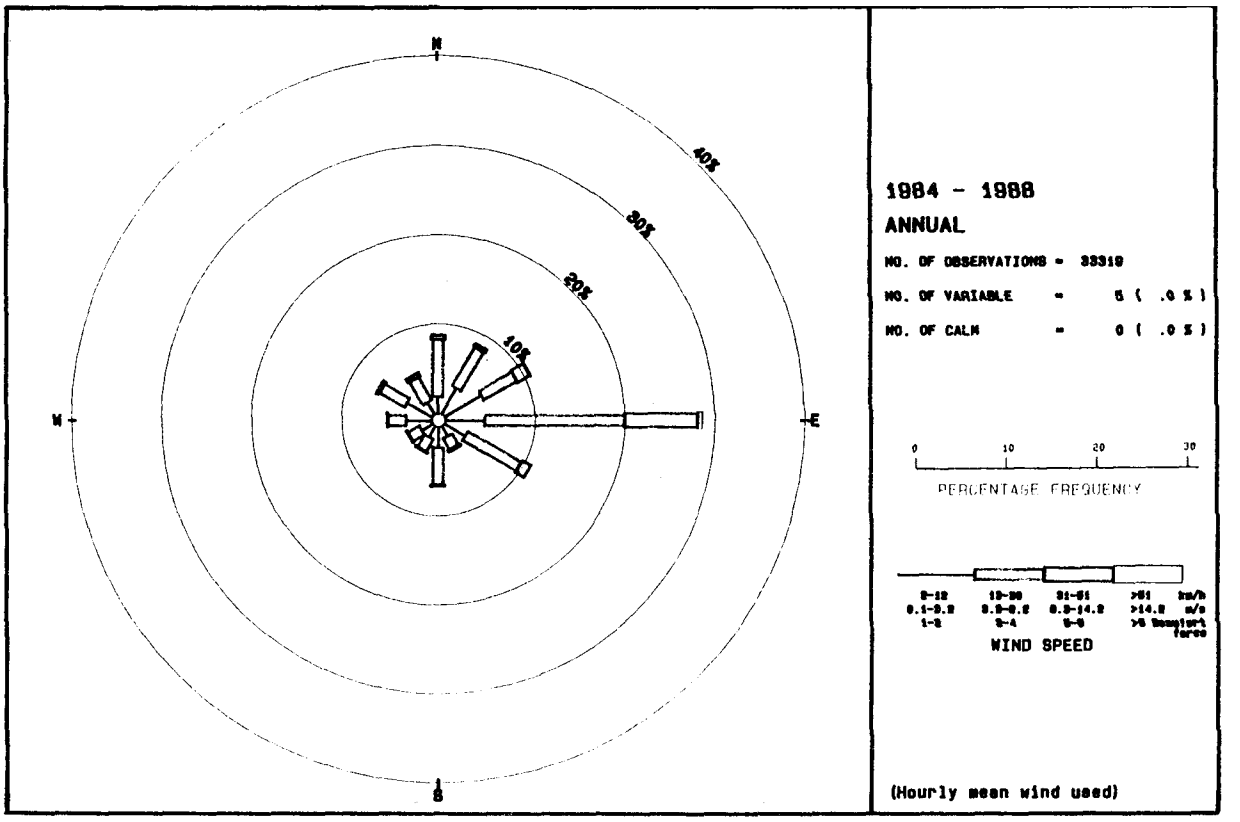


Fig. 3(c) Wind rose for Chek Lap Kok AWS.

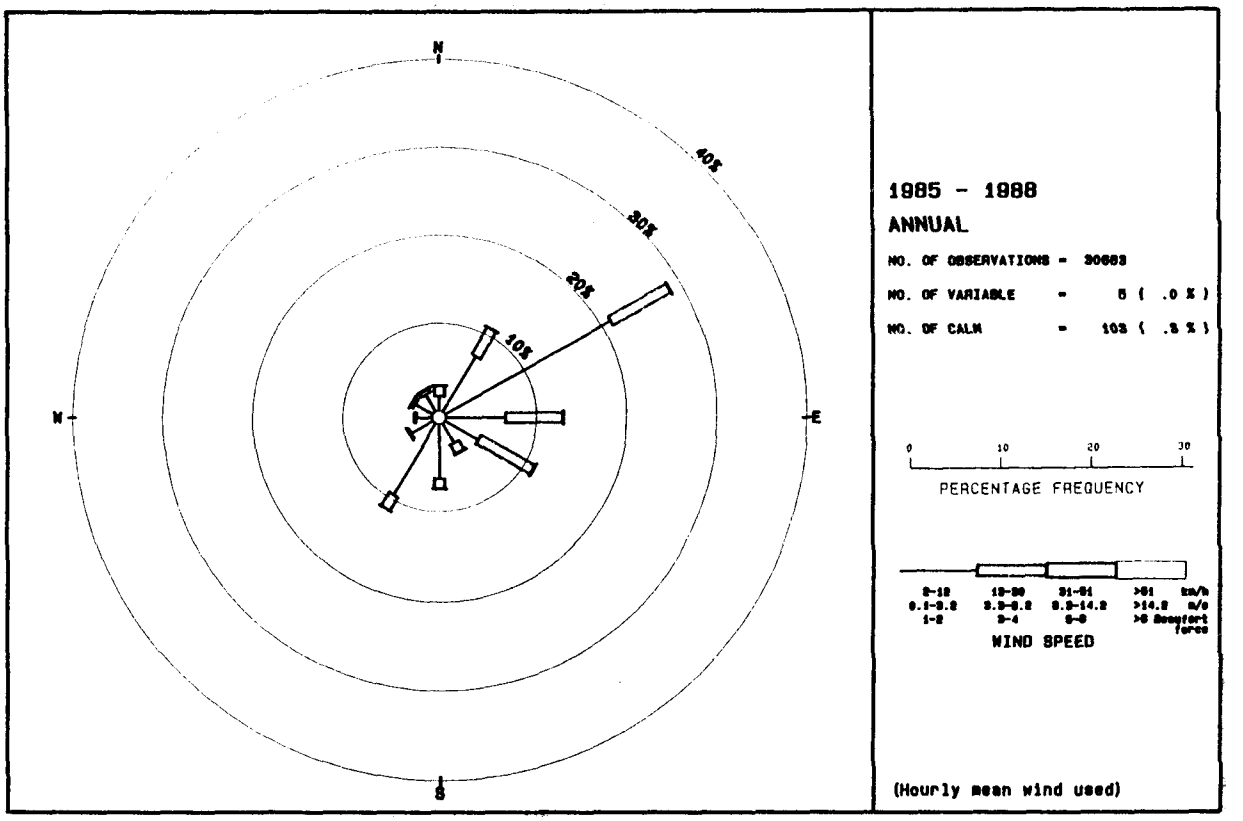


Fig. 3(d) Wind rose for Hong Kong International Terminals AWS.

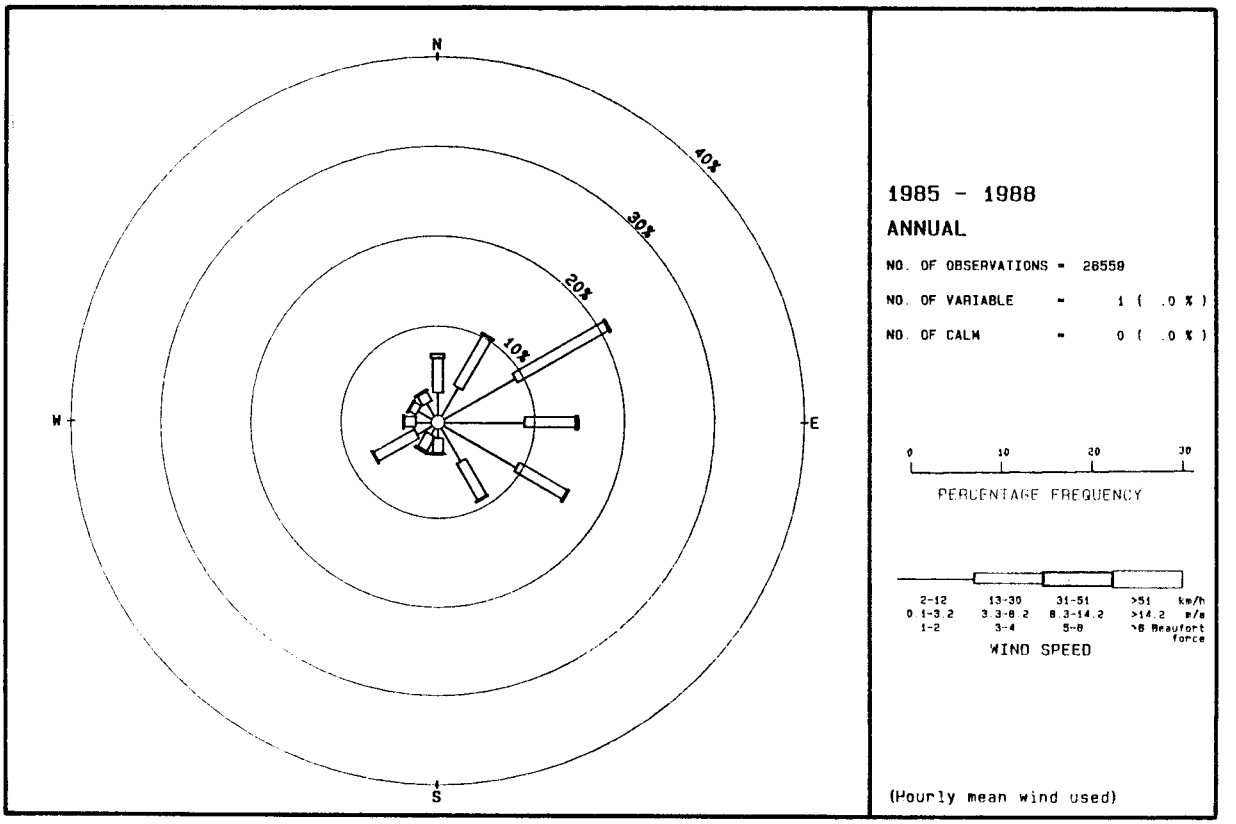


Fig. 3(e) Wind rose for Lau Fau Shan AWS.

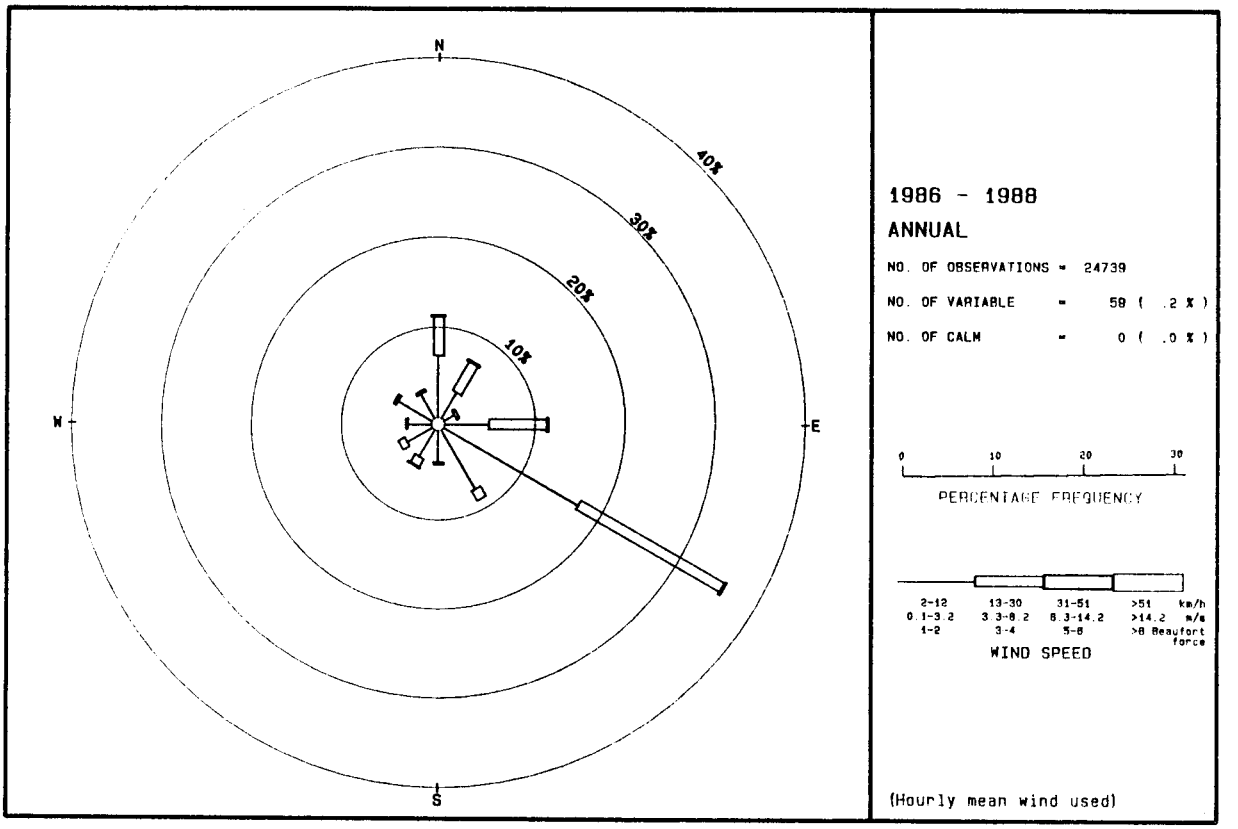


Fig. 3(f) Wind rose for Ta Kwu Ling AWS.

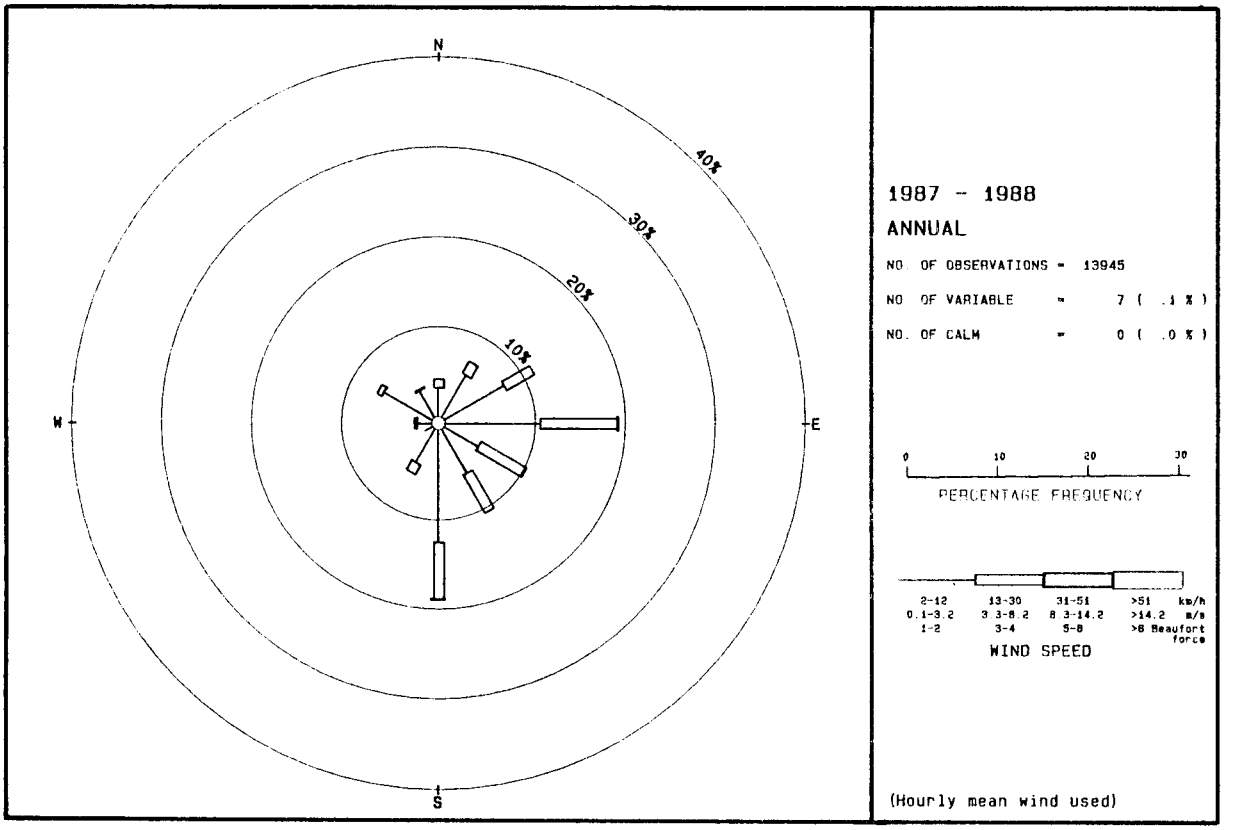


Fig. 3(g) Wind rose for Mobil Oil Depot AWS.

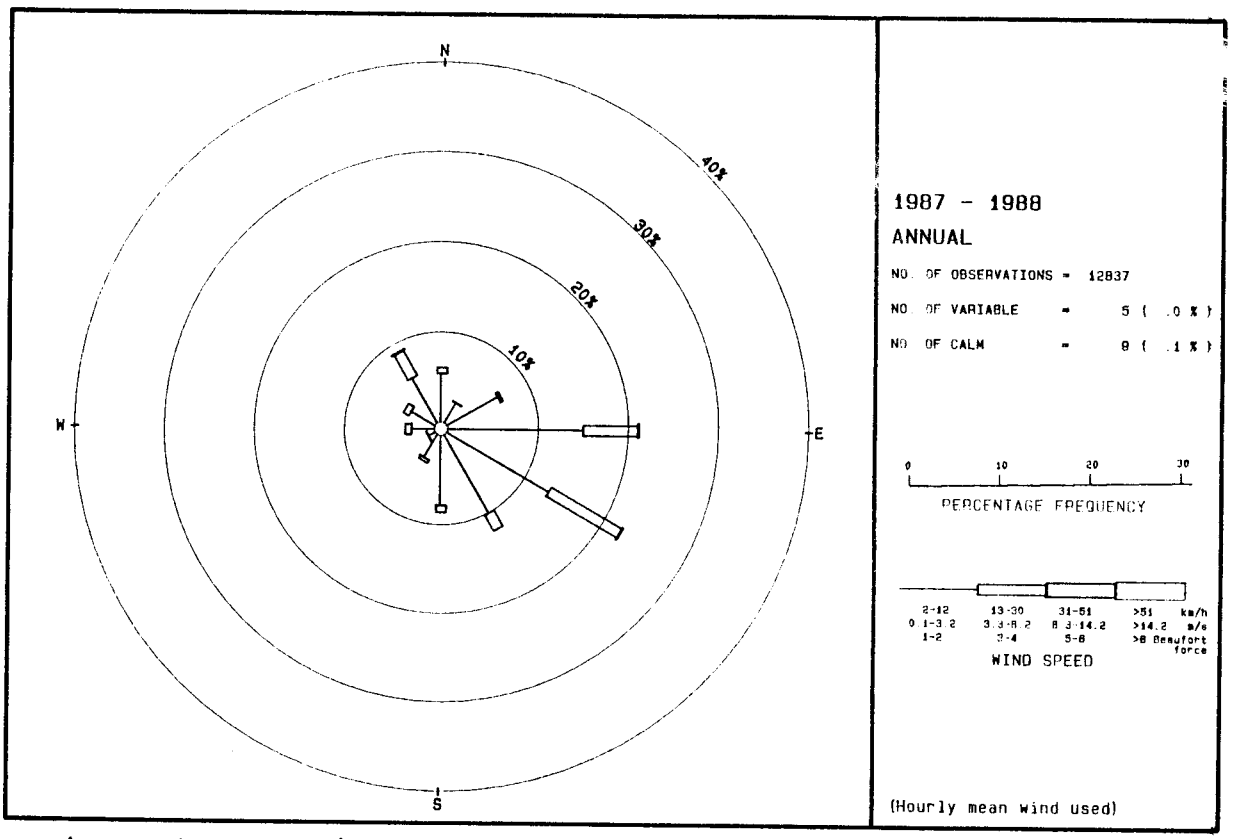


Fig. 3(h) Wind rose for Hong Kong United Dockyards AWS.

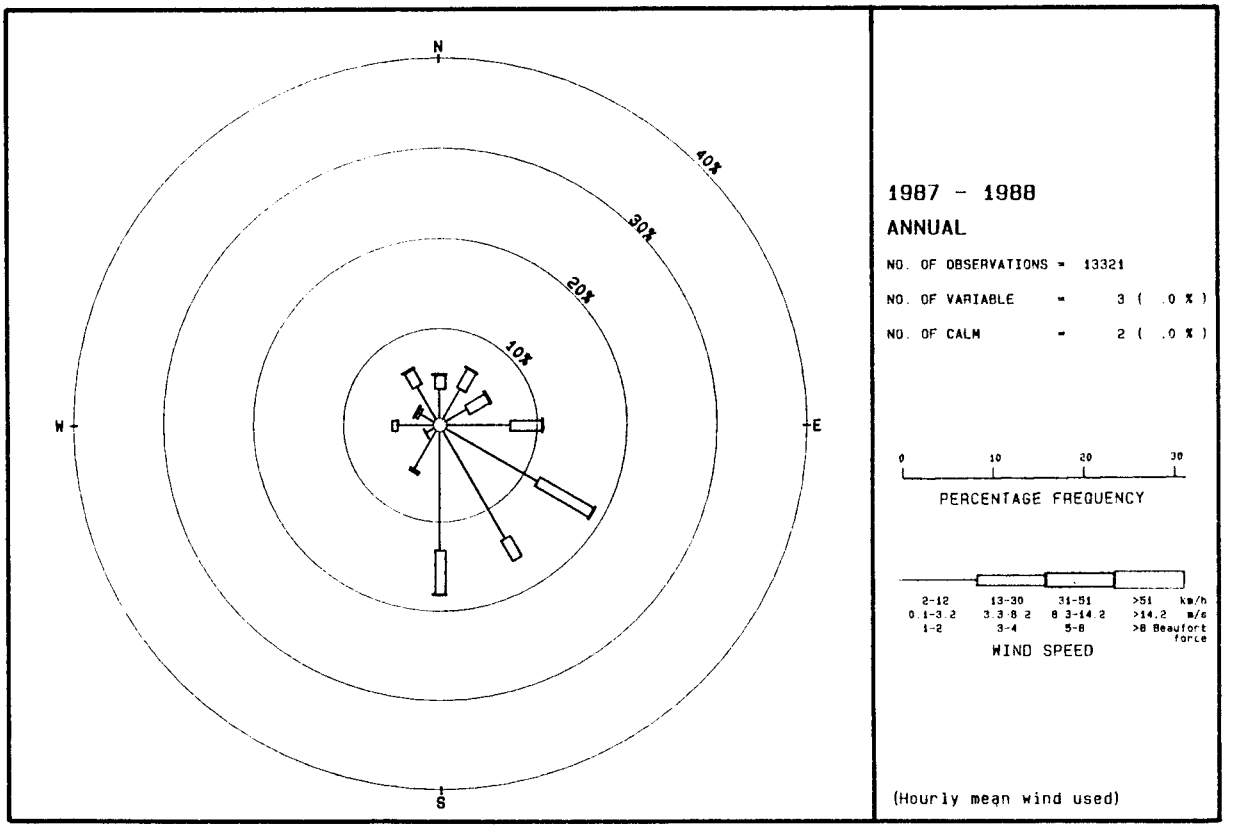


Fig. 3(i) Wind rose for Ching Pak House AWS.

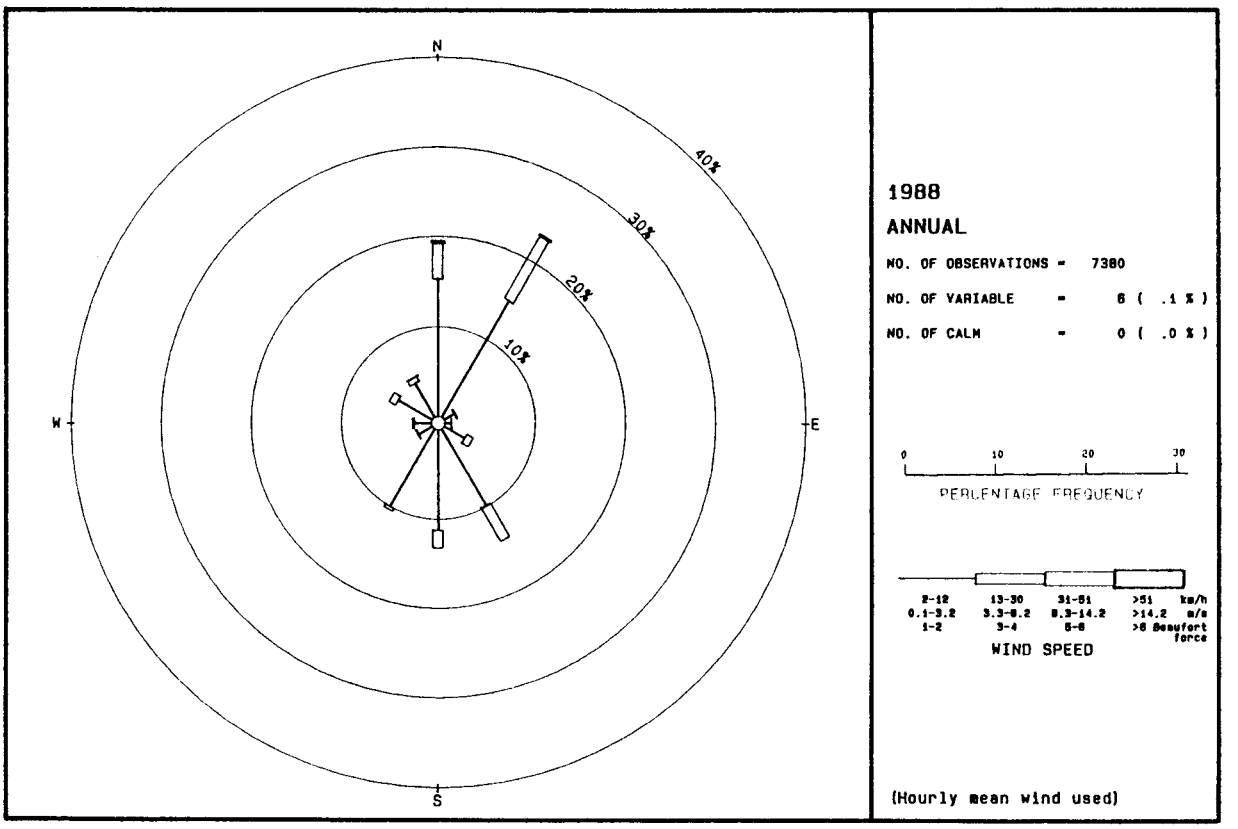


Fig. 3(j) Wind rose for Tuen Mun AWS.

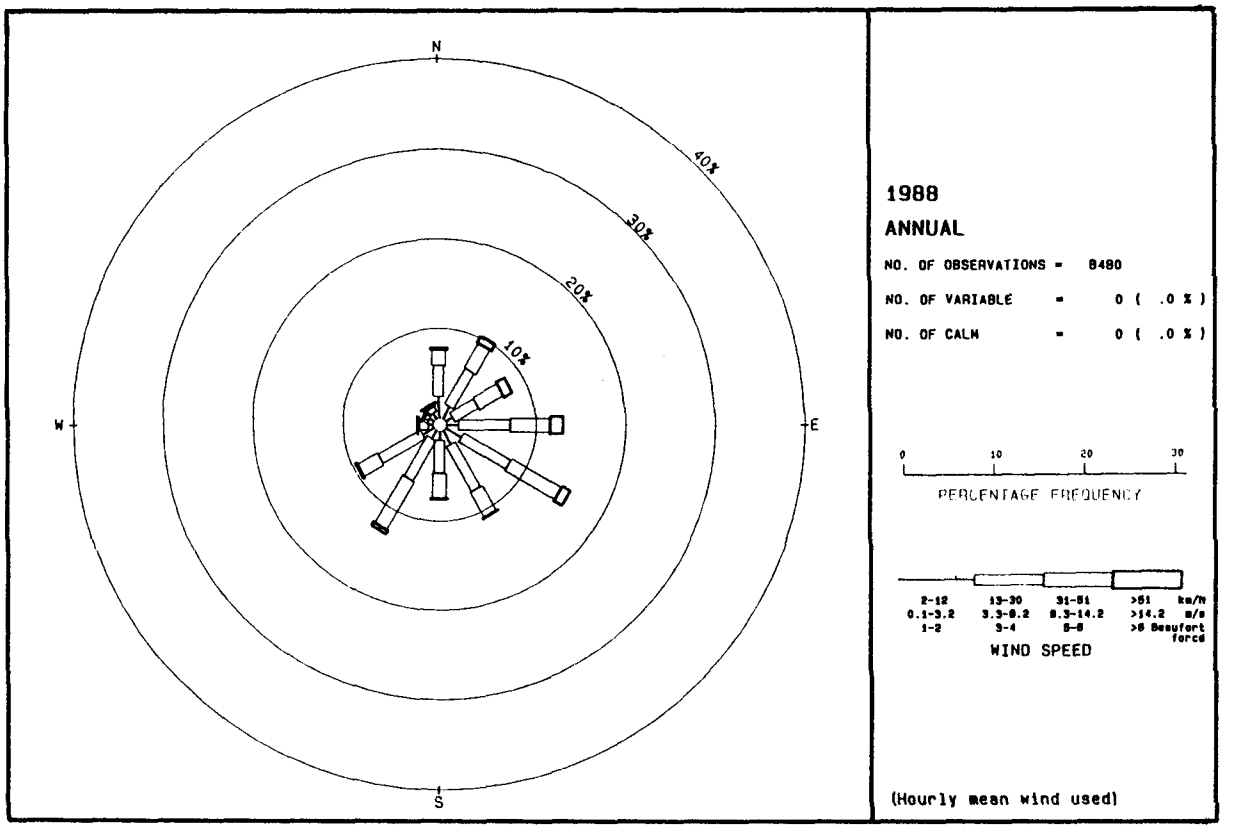


Fig. 3(k) Wind rose for Tai Mo Shan AWS.

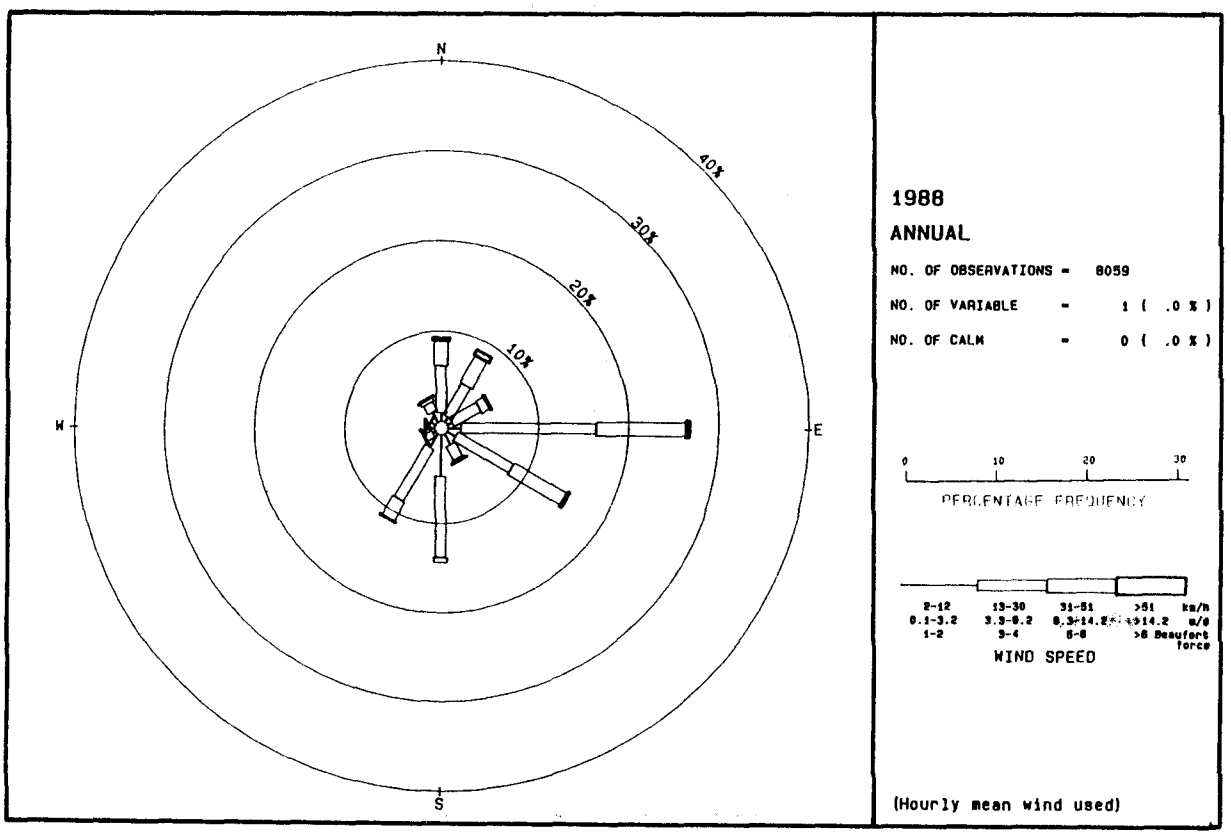


Fig. 3(l) Wind rose for Tate's Cairn AWS.

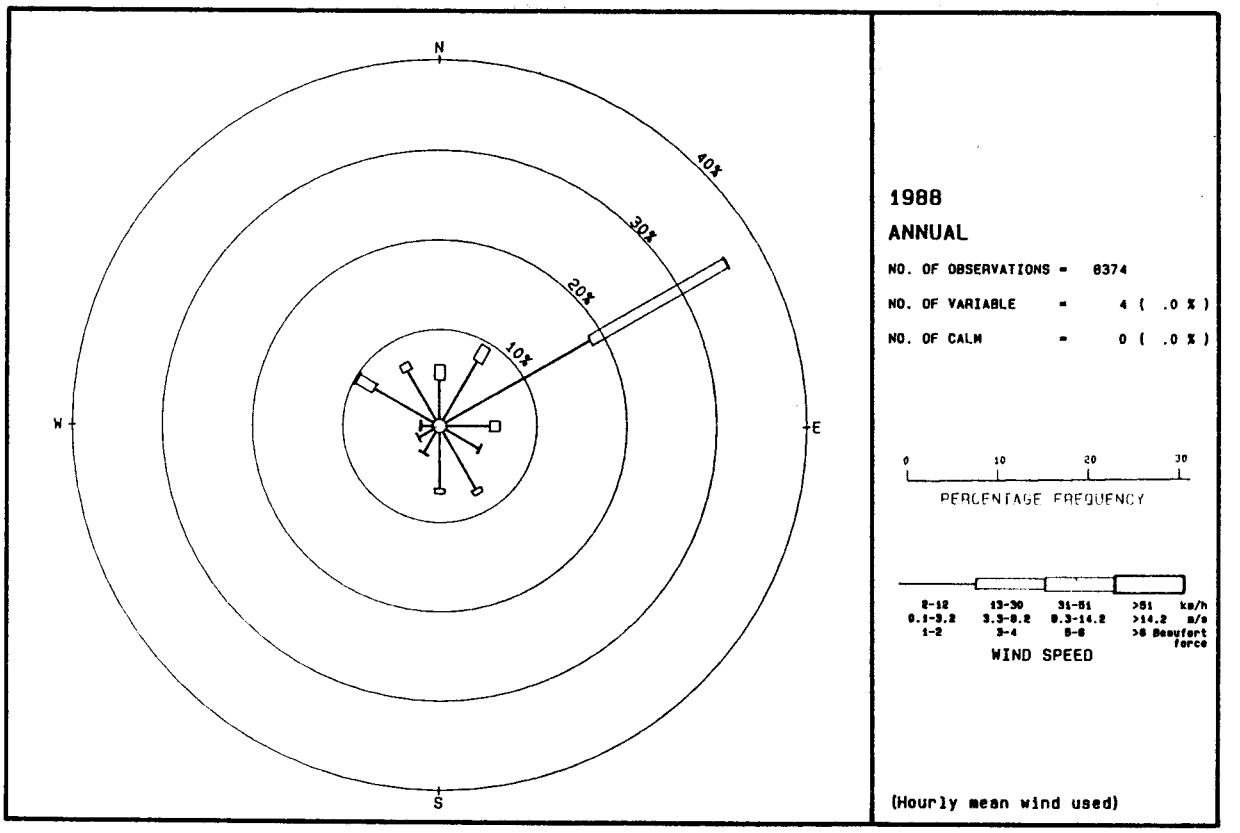


Fig. 3(m) Wind rose for Tamar AWS.

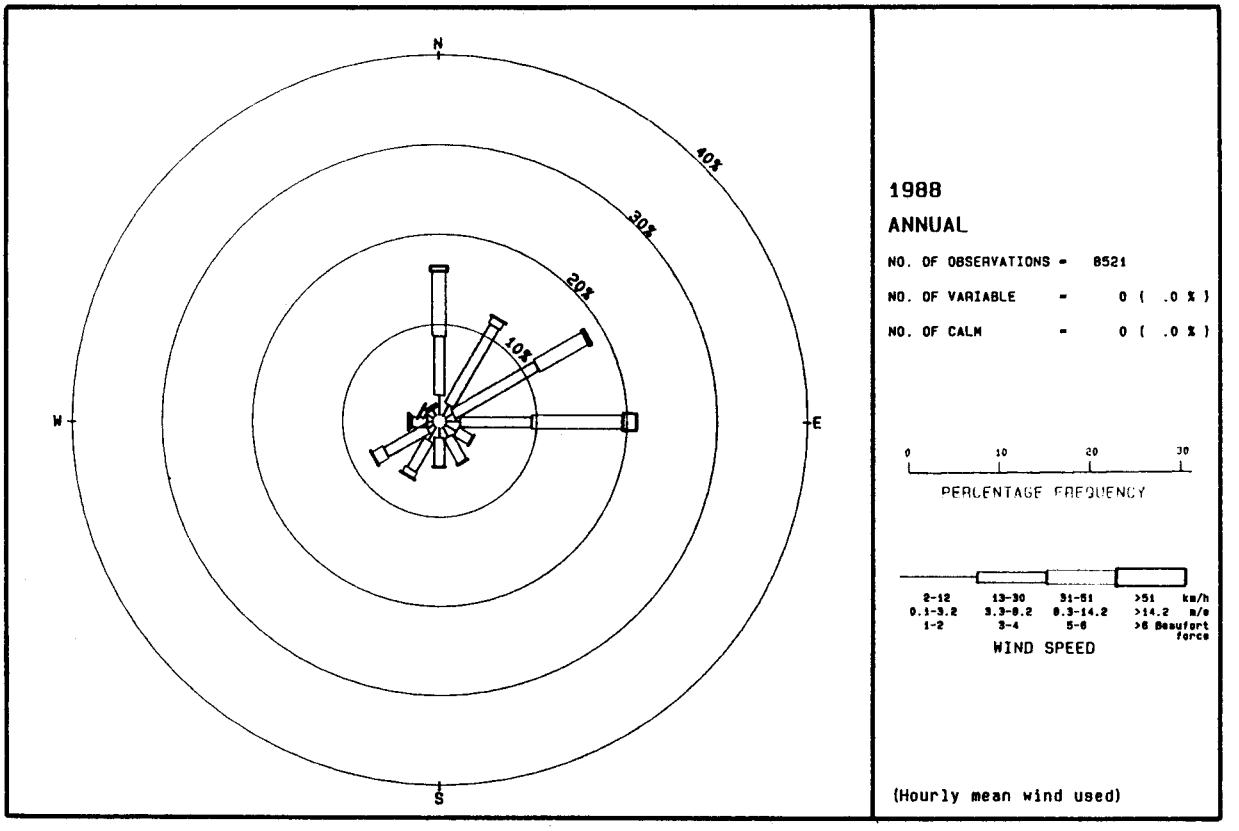


Fig. 3(n) Wind rose for Waglan Island AWS.

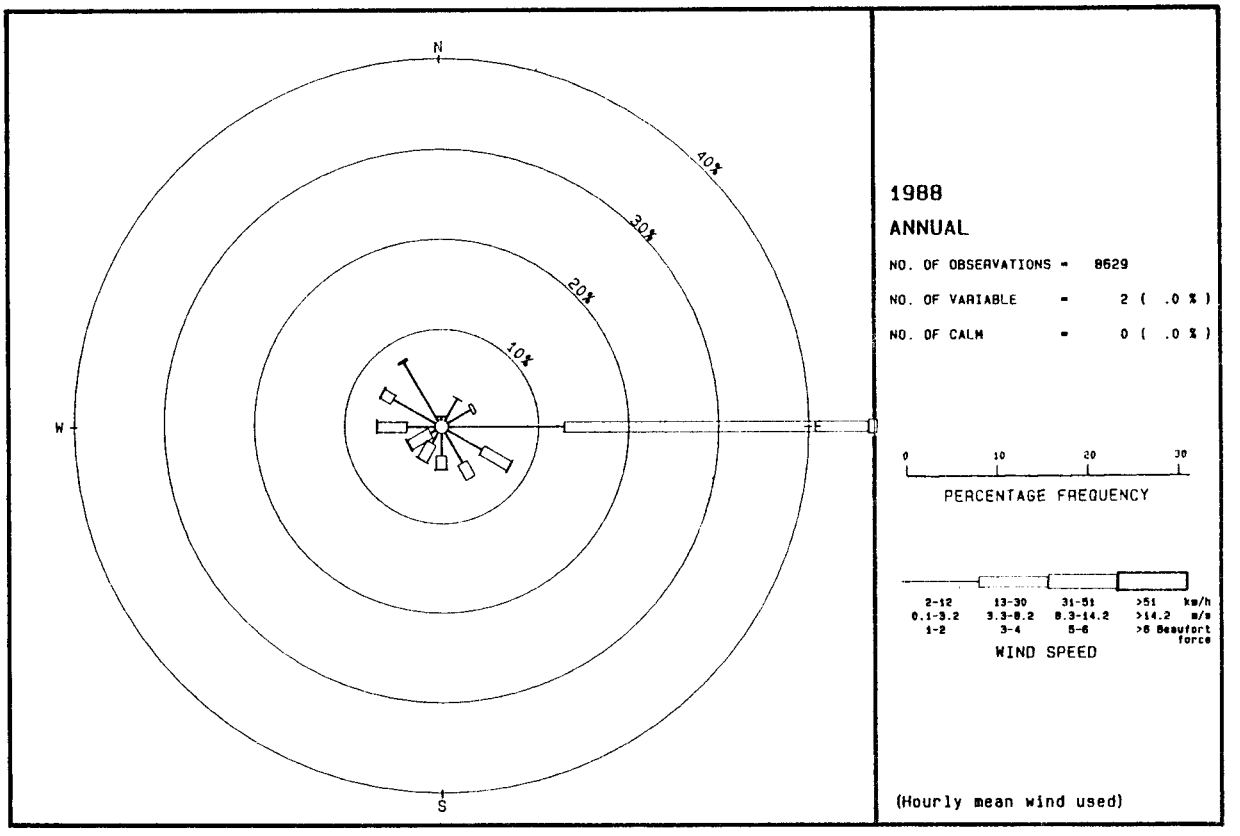


Fig. 3(o) Wind rose for Star Ferry AWS.

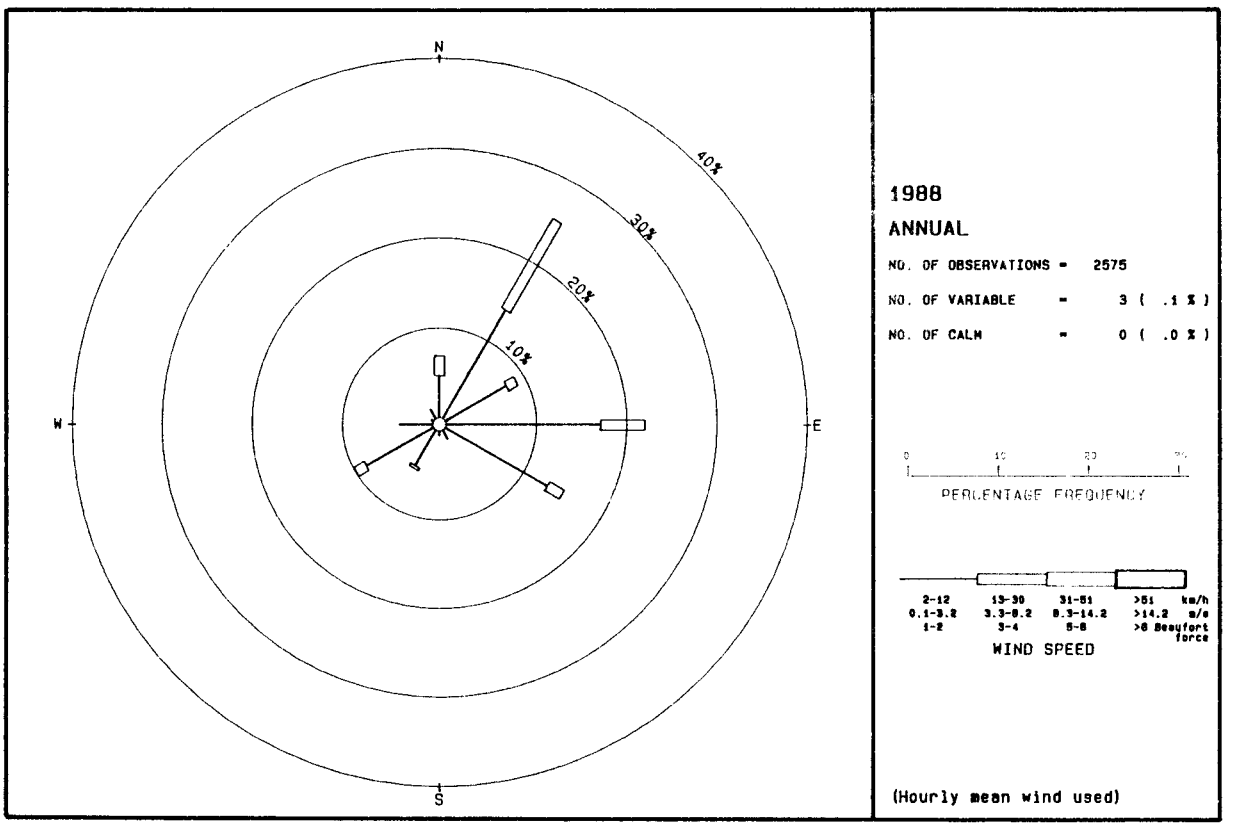
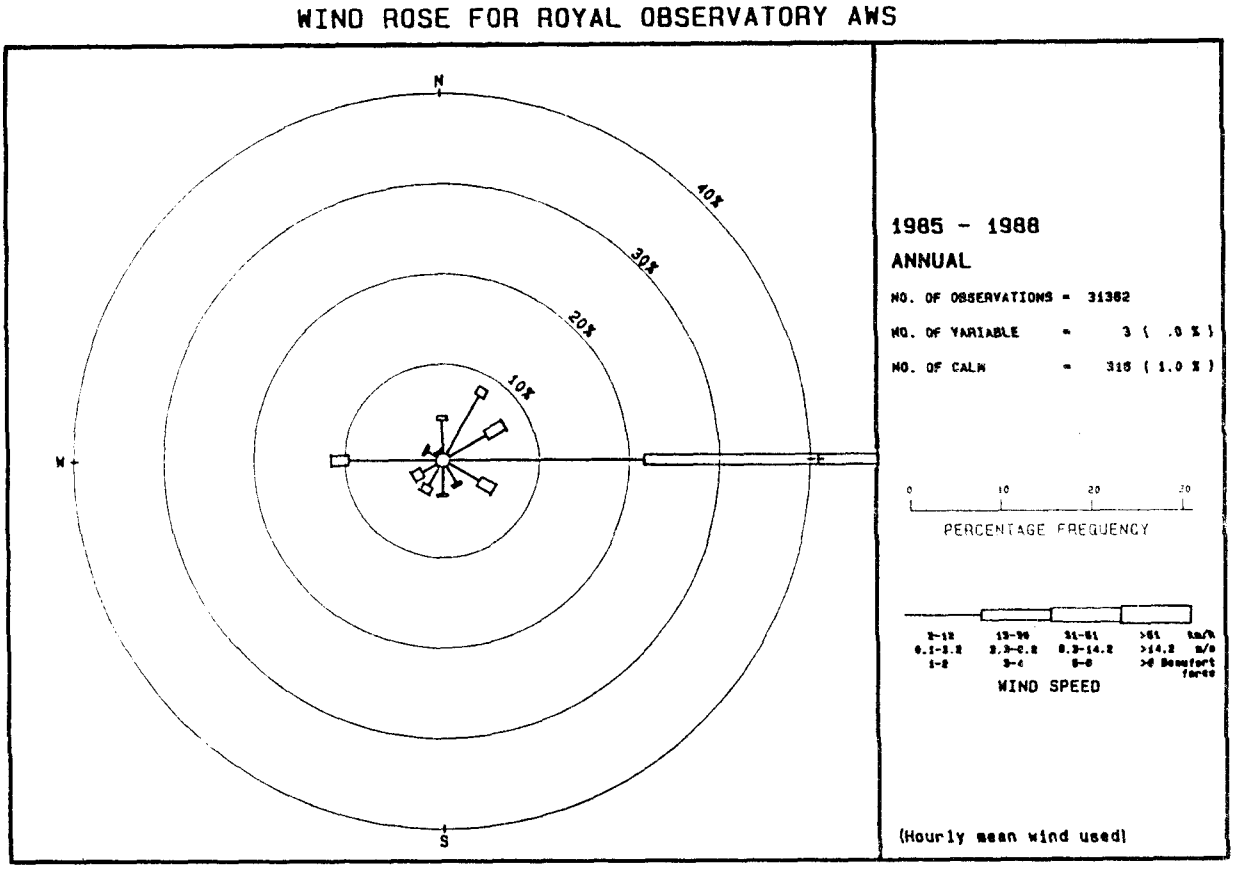


Fig. 3(p) Wind rose for Cheung Sha Wan AWS.



ANNUAL WIND ROSE FOR THE ROYAL OBSERVATORY, HONG KONG
1951 — 1980

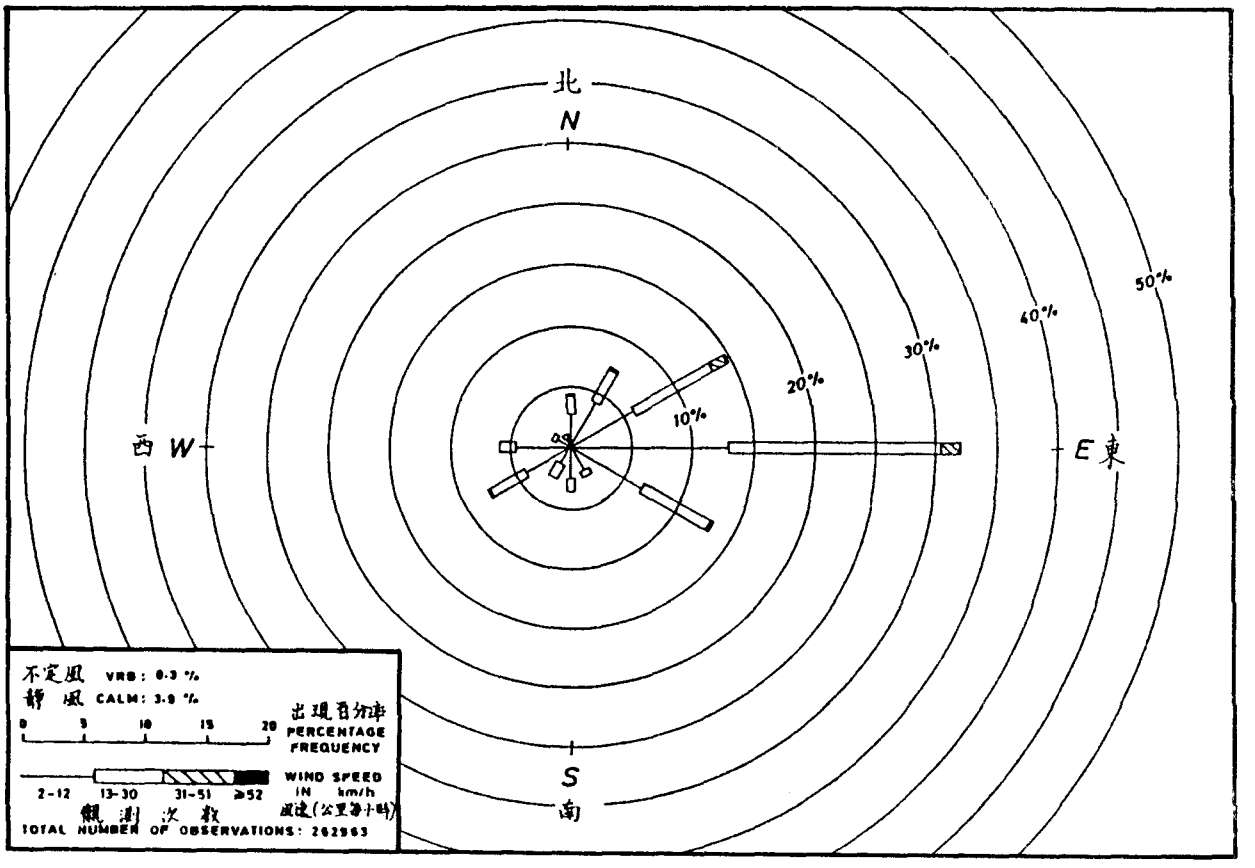
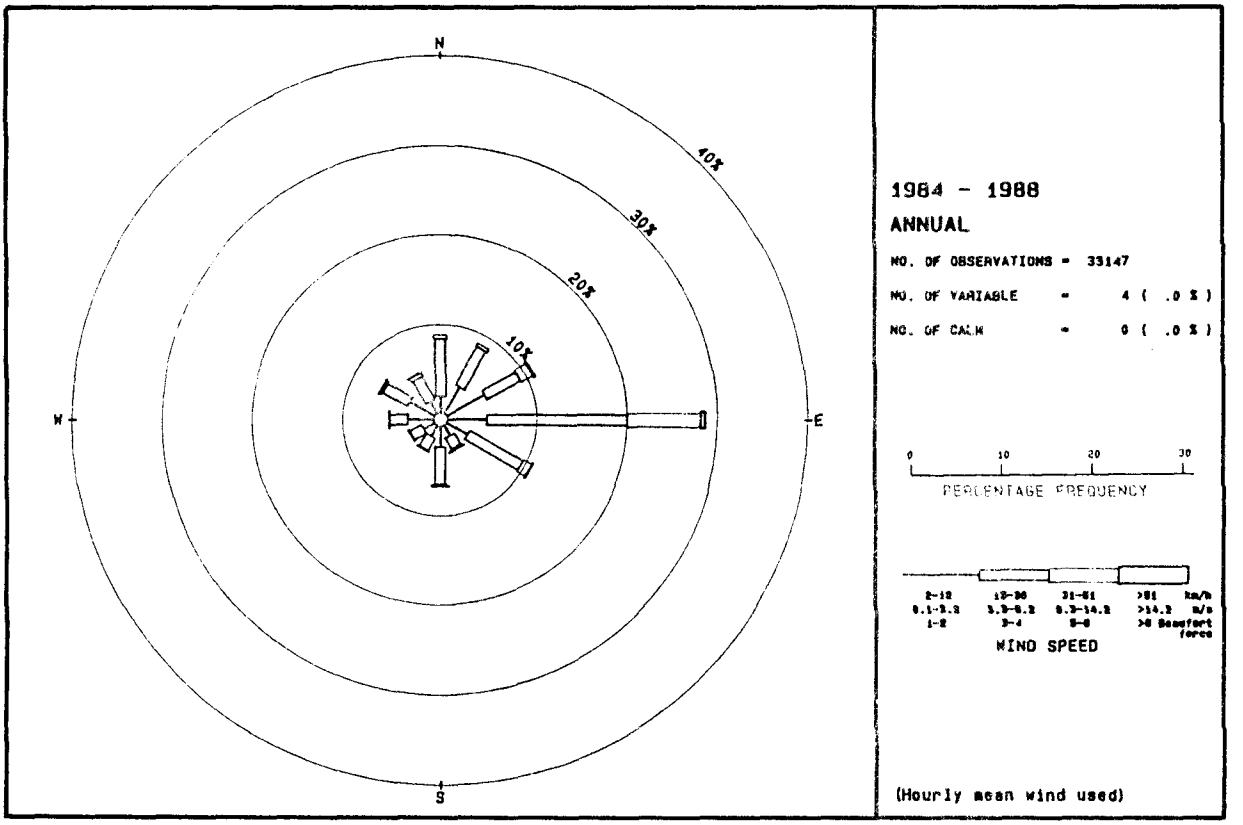


Fig. 4(a) Comparison of wind roses between conventional stations and AWS : RO and RO AWS.

WIND ROSE FOR CHEK LAP KOK AWS



WIND ROSE FOR CHEK LAP KOK

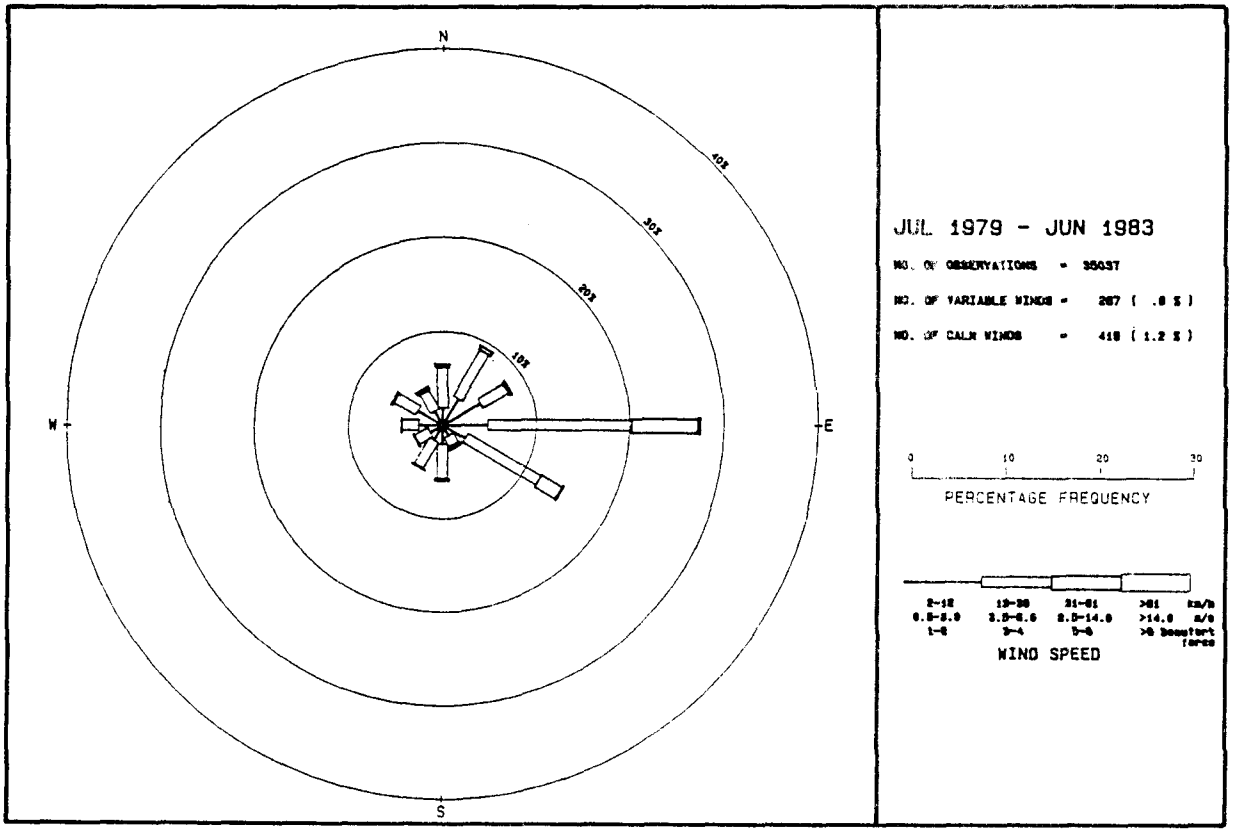
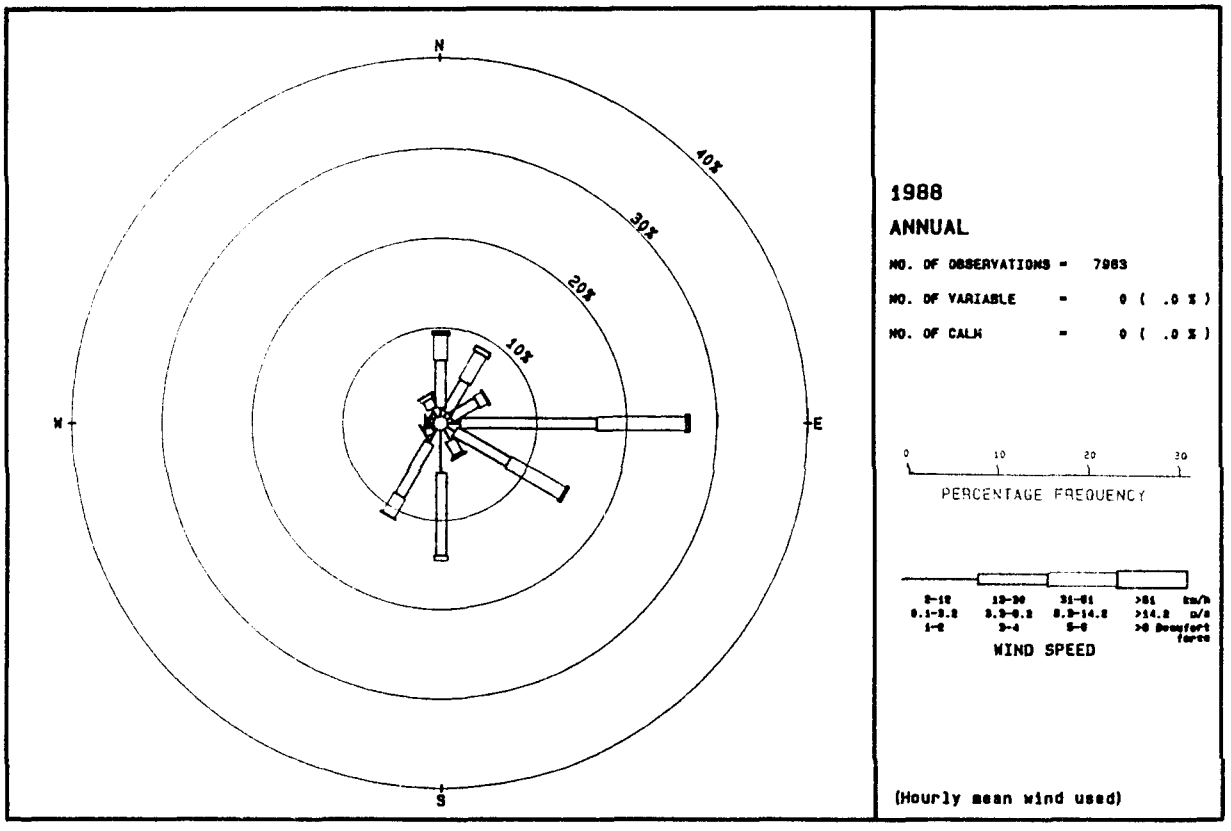


Fig. 4(b) Comparison of wind roses between conventional stations and AWS : CLK and CLK AWS.

WIND ROSE FOR TATE'S CAIRN AWS



WIND ROSE FOR TATE'S CAIRN

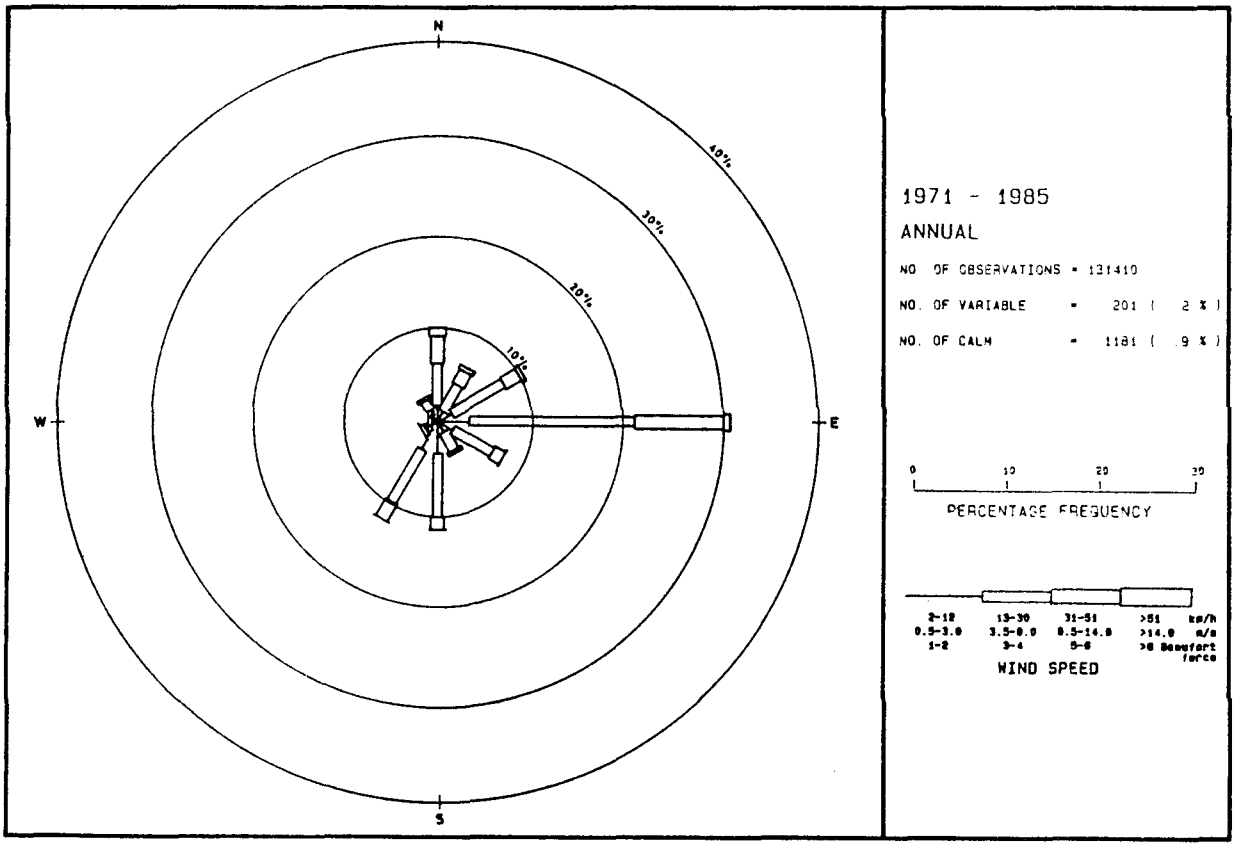
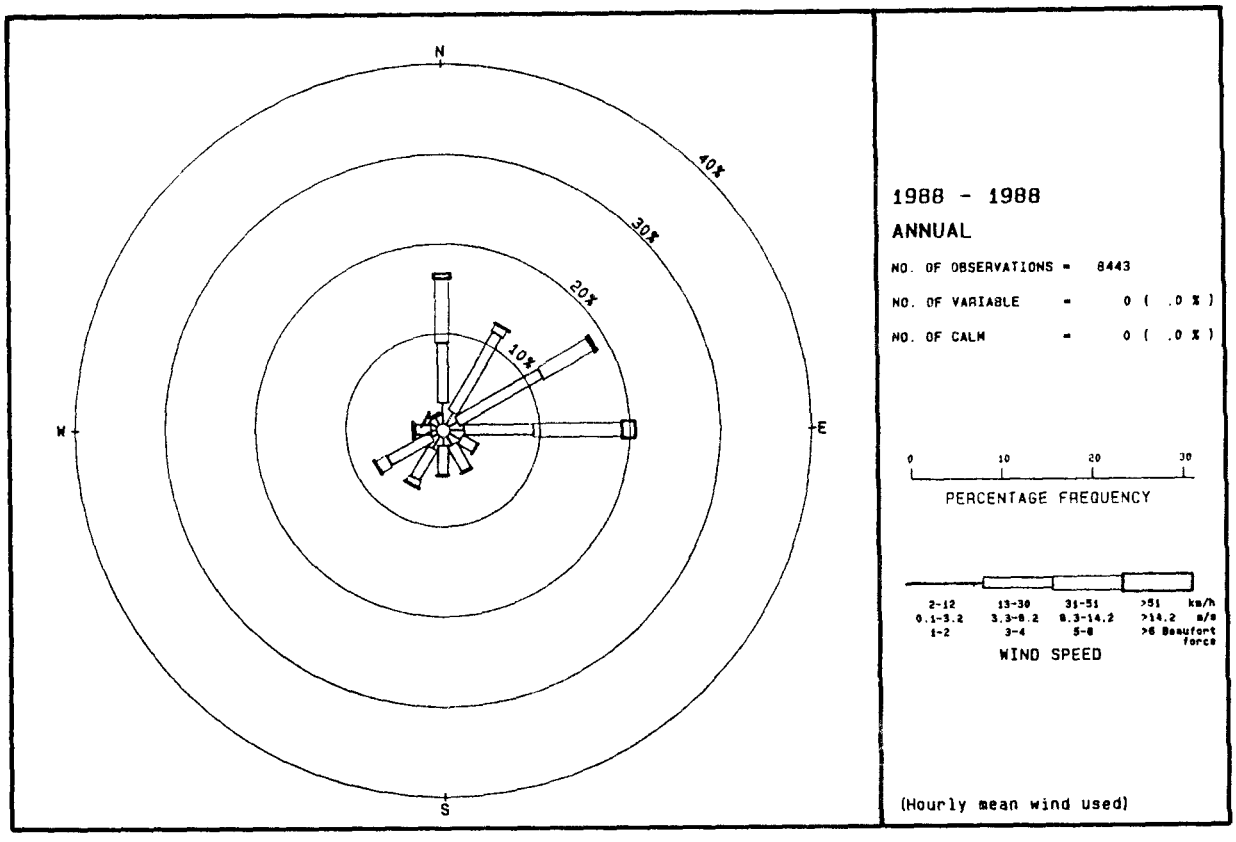


Fig. 4(c) Comparison of wind roses between conventional stations and AWS : TC and TC AWS.

WIND ROSE FOR WAGLAN ISLAND AWS



WIND ROSE FOR WAGLAN ISLAND

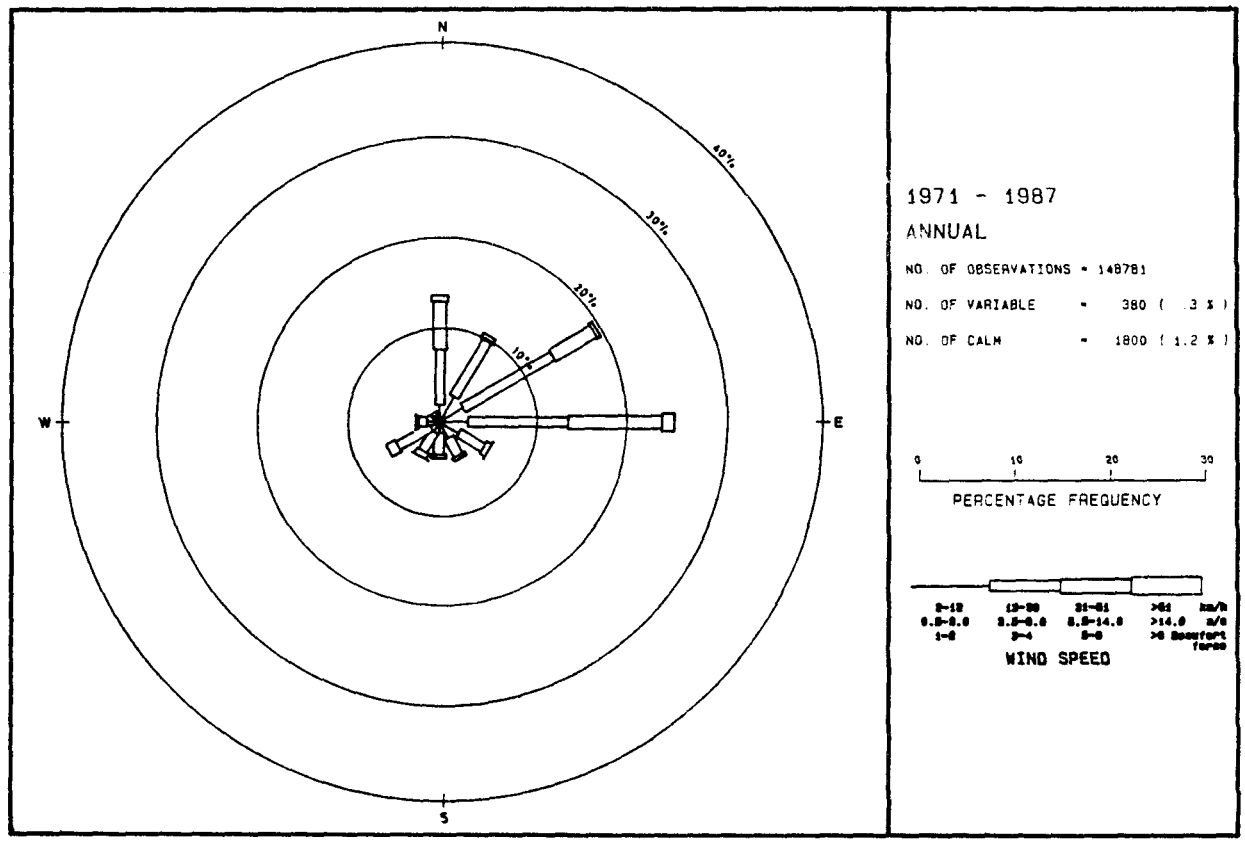
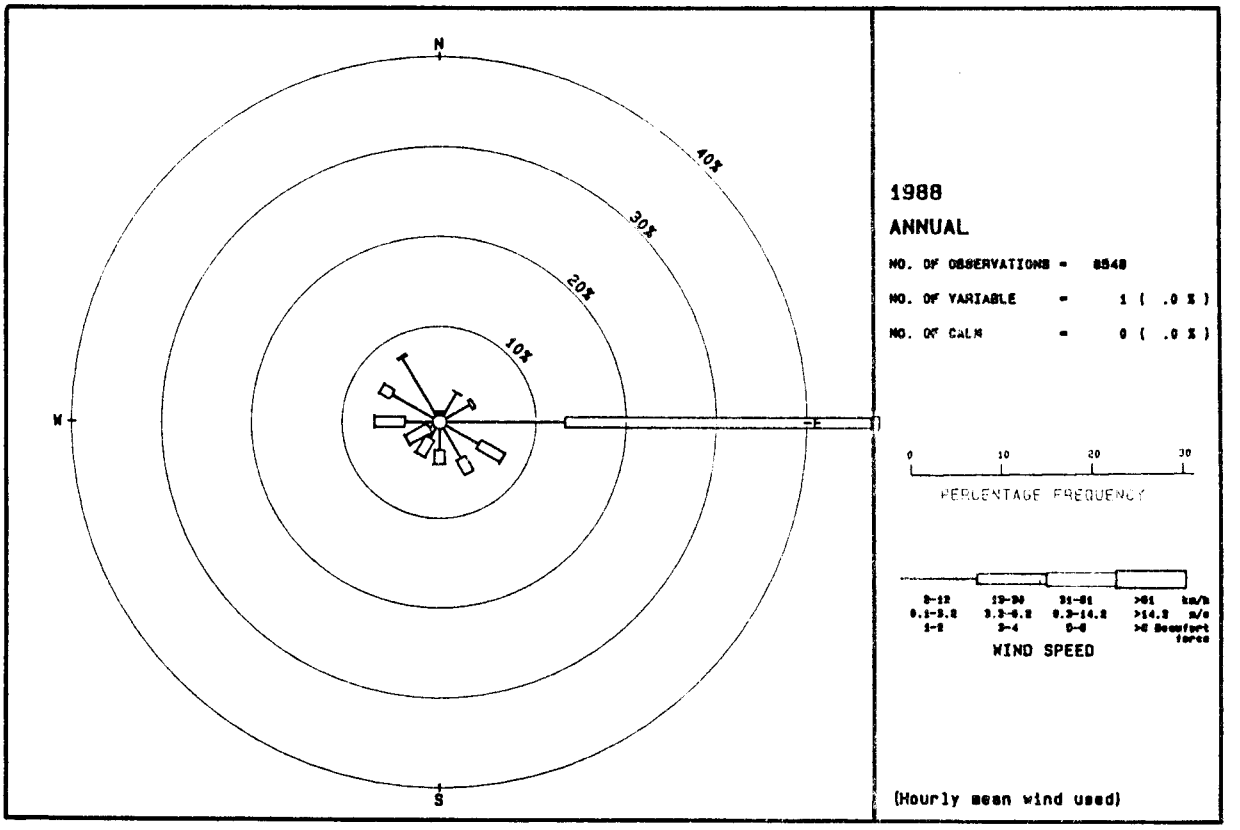


Fig. 4(d) Comparison of wind roses between conventional stations and AWS : WL and WL AWS.

WIND ROSE FOR STAR FERRY AWS



WIND ROSE FOR STAR FERRY PIER

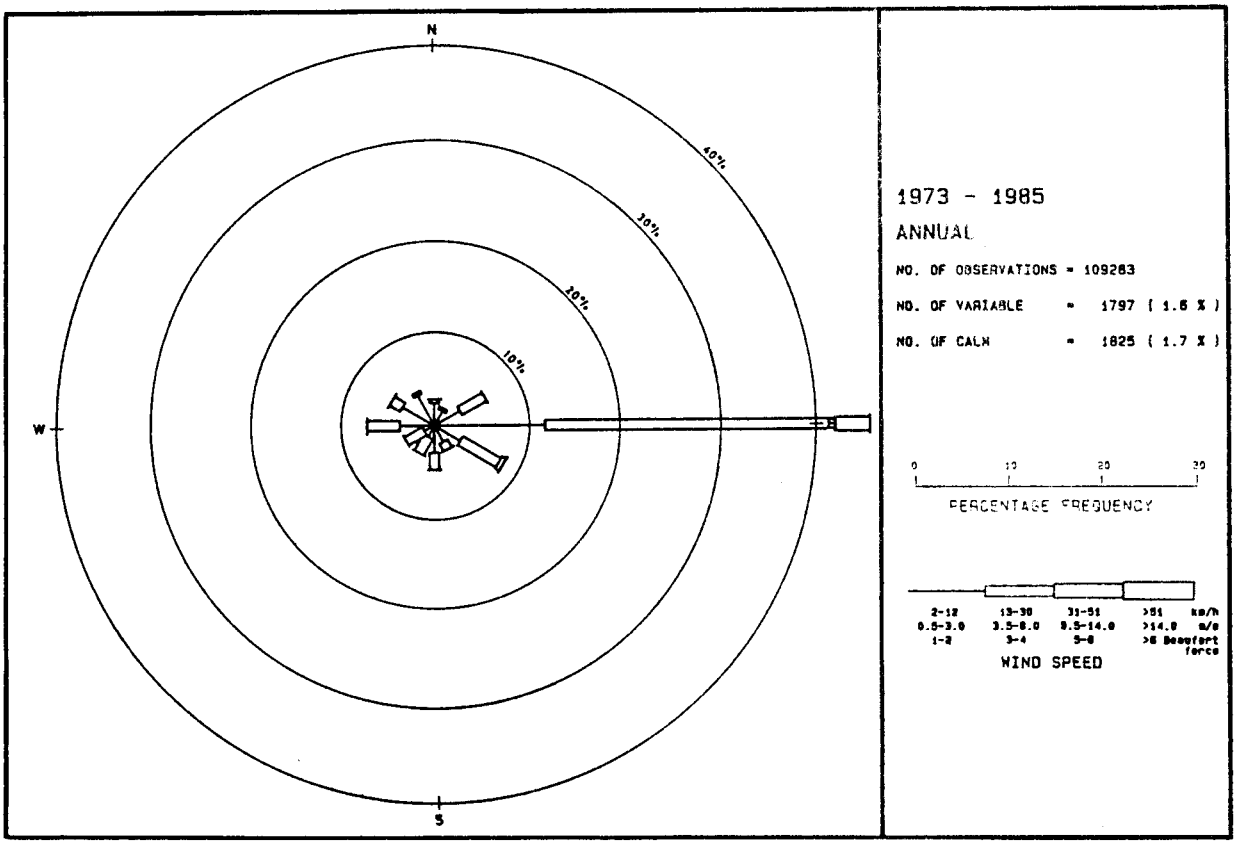


Fig. 4(e) Comparison of wind roses between conventional stations and AWS : SF and SF AWS.