



**METEOROLOGICAL
SERVICE
SINGAPORE**

Centre for Climate Research Singapore

ANNUAL CLIMATOLOGICAL REPORT

2014

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1. Introduction

The annual climatological report of the Meteorological Service Singapore (MSS) contains climate statistics for 64 automatic weather stations (AWSs), 5 manned meteorological stations and 1 upper air observatory (UAO). Among the AWSs installed island wide there are 40 rainfall-only stations and 24 full-stations, recording rainfall, temperature, relative humidity, wind and pressure.

The meteorological station that is located in the aerodrome of the Changi International Airport also serves as the climatological station for Singapore. According to World Meteorological Organization guidelines, a climate station monitors the climate over a long term period to provide data that enables detection of climate change signals at the national level. It should minimally have 30 years of rainfall and minimum/maximum temperature data and be located relatively far from large urban centres. Changi climate station meets these requirements with 30 years of meteorological records spanning 1984 to 2013.

Singapore's climate station has been located at 8 different sites (twice to Kallang) in the past 140 years.(see Table 1). Some of these stations have been decommissioned at various points in the past due to changes of local land use in the vicinity of the site.

	Period of service	Location
1	Jan 1869 – Dec 1874	Convict Prison (Outram)
2	Jan 1875 – Dec 1928	Kandang Kerbau Hospital
3	Jan 1929 – May 1934	Mount Faber
4	Jun 1934 – Dec 1941	Kallang
5	Jan 1942 – Dec 1947	Botanic Gardens
6	Jan 1948 – Aug 1955	Kallang
7	Sep 1955 – Dec 1983	Paya Lebar
8	Jan 1984 – present	Changi

Table 1: Period of service and the location of the Climate Station of Singapore

Prior to the installing of the AWSs, MSS had been operating 30 manual rainfall gauges with some dating back as early as 1960s, see Annex 2. With the completion of the AWSs in 2011, these manual instruments have all been replaced with electronic tipping bucket rain gauges.

2. Climate of Singapore

In general, the climate of Singapore is relatively uniform throughout the year and large variations in seasonal weather do not occur. The main features of Singapore's climate are uniform temperature, high humidity and abundant rainfall throughout the year due to maritime influence and the island's close proximity to the Equator.

The diurnal temperature variation is small, with highs of 31°C to 33°C during the day and lows of 23°C to 25°C during the night. Based on climate records from 1929, the highest temperature observed is 36.0°C, recorded in 1998 and the lowest is 19.4°C, recorded in 1934.

The relative humidity is high all year round and varies daily from more than 90% in the morning just before sunrise and falling to around 60% in the afternoon on days when there is no rain. Relative humidity reaches 100% frequently during periods of rain. The average annual relative humidity is 84% and the lowest relative humidity observed is 33%, recorded in 1966.

Although there are seasonal variations in the amount of rainfall, there are no distinct wet or dry seasons as rain falls every month of the year, giving an annual average rainfall of 2,339 mm. Based on climate records from 1869, the maximum monthly rainfall is 818.6 mm, recorded in Jan 1893 and the minimum is 0.2 mm recorded in Feb 2014. The highest rainfall recorded in a day is 512.4 mm, recorded in Dec 1978.

Monsoon seasons are defined by the prevailing winds dominant at the time of the year. The two main seasons are the Northeast Monsoon which lasts from Dec to Mar and the Southwest Monsoon from Jun to Sep. The Northeast Monsoon season is wetter and accounts for about half of the annual rainfall while the Southwest Monsoon season is relatively drier and accounts for about a third.

The Northeast Monsoon season can be divided into a wet and a dry phase. The wet phase of the Northeast Monsoon occurs in Dec and Jan while the later part of the season is in the dry phase where days are generally fair and occasionally windy with little or no rain. The Northeast Monsoon winds are generally cooler and constant in direction; and spells of wet weather associated with surges in the monsoon flow may persist for several days at a time. The wet spells are more frequent during the first two months of the northeast monsoon season. Dry spells occur during the second half of the northeast monsoon season.

The main feature of the Southwest Monsoon season is the incidence of morning squalls which develop over Sumatra and move eastwards towards Singapore. These squalls can bring gusts which are occasionally strong, and are often accompanied by heavy rain and thunder with associated drops in temperature. More intense features of the storm seldom last for more than 1 hour. Sumatra squalls occur on an average of 3 to 4 times a month throughout the season.

During the Inter-Monsoon periods of Apr to May and Oct to Nov, when the winds are generally light and variable in direction, sea breeze induced thunderstorms are common. The sea breeze carries humidity inland and mixes with the rising warm land air and, in unstable conditions, form rain clouds in the afternoon. In the Inter-Monsoon periods, afternoon and evening thunderstorms and convective showers are thus more frequent.

3. Meteorological Stations

MSS operates 1 upper air station, 5 manned meteorological stations, and 64 automatic weather stations. The locations of these stations are shown in Figure 1.



Figure 1: Locations of UAO, Manned Meteorological Stations and AWSs

3.1. Upper Air Observatory

The UAO, which has been operational since the 1950s, gathers meteorological observations of the atmosphere that are essential for weather monitoring and forecasting. It is part of a global network of about 1,300 upper-air stations world-wide.

Twice daily measurements are carried out at the UAO through the release of balloon-borne meteorological sensors which measure temperature, humidity, wind and pressure up to heights of 30 km. The upper air station is equipped with a sounding system and an automated sliding hatch in the roof enabling the weather balloon to be released from within the observatory. Helium gas is used to ensure safety in the balloon-filling operations.

In addition to the twice daily soundings using radiosondes, vertical profile measurements of ozone concentration are carried out once a month. This is done through attaching an ozonesonde together with the radiosonde to the weather balloon.

3.2. Manned Meteorological Stations

Since 1984, the meteorological station serving the Changi International Airport has been designated as the climatological station of Singapore. The locations of the other 4 other manned meteorological stations are at Paya Lebar, Tengah, Seletar, and Sembawang.

The Changi station operates 24 hours a day, while the other 4 meteorological stations record observations only from 4 am to 11 pm. The locations of these stations, given in degree minute, are listed in Table 2, and the details of their instruments and starting operational dates are given in Table 3. A more detailed listing of the instruments can be found in the Annex 1.

ID	Station	Position		Elevation above mean sea-level (m)
		Lat. (N)	Long. (E)	
24	Changi Climate Station	1°22.07	103°58.94	15
06	Paya Lebar Meteorological Station	1°21.43	103°54.22	16
23	Tengah Meteorological Station	1°23.10	103°42.70	17
25	Seletar Meteorological Station	1°25.00	103°51.90	9
80	Sembawang Meteorological Station	1°25.50	103°49.20	26

Table 2: Locations of the manned stations

ID	Station	Hellmann Rain Gauge							Operational Date
		Thermometer	Hygrometer	Barometer	Sunshine Recorder	Soil Thermometer	Evaporation Tank		
24	Changi Climate Station	1	1	1	1	1	1	1	01/01/1981
06	Paya Lebar Meteorological Station	1	1	1	1				01/01/1960
23	Tengah Meteorological Station	1	1	1	1				01/01/1985
25	Seletar Meteorological Station	1	1	1	1				01/01/1985
80	Sembawang Meteorological Station	1	1	1	1				01/01/1991

Table 3: Types and numbers of instruments at the manned stations

3.3. Automatic Weather Stations

The network of 64 automatic weather stations, are distributed across the island to measure rain, temperature, relative humidity, wind and pressure. All these measured meteorological readings are transmitted in real time to the Central Forecast Office located at the terminal building of the Changi International Airport. The locations of the AWSs are given in Table 5, and the instruments and operational start dates are listed in Table 6.

ID	Station	Position		Elevation above mean sea-level (m)
		Lat. (N)	Long. (E)	
07	Macritchie Reservoir	1°20.51	103°50.03	25
08	Lower Peirce Reservoir	1°22.20	103°49.62	9
11	Choa Chu Kang Cemetery Office	1°22.46	103°41.62	22
24	Changi Climate Station	1°22.07	103°58.94	15
29	Pasir Ris Home Team Chalets	1°23.19	103°56.48	10
31	CHIJ(Kellock) Primary School	1°16.46	103°49.69	35
33	Jurong Pier	1°18.49	103°42.59	6
35	Ulu Pandan Sewage Treatment Work	1°19.95	103°45.30	13
36	Woodleigh Filters	1°20.26	103°51.97	9
39	Jurong Industrial Waterworks	1°19.51	103°44.21	10
40	Singapore Orchids	1°24.40	103°46.99	38
43	Upper Air Observatory	1°20.44	103°53.29	36

ID	Station	Position		Elevation above mean sea-level (m)
		Lat. (N)	Long. (E)	
44	National Technological University	1°20.71	103°41.00	84
46	Singapore Golf Club	1°20.49	103°48.65	34
50	Ngee Ann Polytechnic	1°19.91	103°46.57	69
55	Woodbridge Hospital	1°23.02	103°53.16	29
60	Sentosa	1°15.02	103°49.65	37
61	Ping Yi Sec School	1°19.63	103°55.24	24
63	International Road P.S	1°19.65	103°42.25	11
64	Bukit Panjang Telecom	1°22.94	103°45.64	32
66	Kranji Reservoir	1°26.32	103°44.16	9
69	Upper Peirce Reservoir	1°22.22	103°48.28	45
71	Kent Ridge Road, CRISP	1°17.54	103°46.89	72
72	Prince Edward Road	1°16.43	103°50.89	29
77	Queenstown Secondary School	1°17.62	103°48.76	24
78	Poole Road Pumping Station	1°18.42	103°53.44	6
79	TripleOne Somerset Building	1°18.02	103°50.23	67
81	Punggol Secondary School	1°24.17	103°54.57	25
82	Tuas Incinerator	1°19.49	103°38.11	45
84	Simei Avenue	1°20.66	103°56.64	19
86	JTC, Chia Ping Road	1°19.61	103°43.23	42
88	Beatty Secondary School	1°20.50	103°51.09	29
89	Tuas Fire Station	1°19.19	103°39.68	25
90	CCAB Bukit Timah Road	1°19.15	103°49.16	21
91	Yishun Avenue 5	1°25.80	103°49.84	43
92	NACLI, South Buona Vista	1°17.05	103°47.33	38
94	Coral Secondary School	1°22.08	103°56.94	23
96	Changi Naval Base	1°19.05	104°01.84	-
97	Tuas Naval Base	1°17.63	103°39.84	-
100	Sungei Kadut, COSEM	1°25.03	103°44.91	19
101	Jurong Junior College	1°21.03	103°42.80	18
102	Semakau Island	1°11.41	103°45.94	6
103	Dairy Farm	1°21.58	103°46.62	64
104	Republic Polytechnic	1°26.63	103°47.12	27
105	Northwest Regional Office, NEA	1°27.49	103°47.72	28
106	Pulau Ubin	1°25.01	103°58.04	27
107	National Sailing Centre	1°18.80	103°57.72	9
108	Marina Barrage	1°16.80	103°52.22	15
109	Nanyang Polytechnic	1°22.76	103°51.00	53
110	Peicai Secondary School	1°21.92	103°52.25	57
111	MEWR	1°18.63	103°50.19	115
112	Sarimbun (Scouts Campsite)	1°26.33	103°42.10	6
113	Tao Nan School	1°18.30	103°54.67	25
114	Bukit Panjang Govt High School	1°22.93	103°44.29	25
115	Tuas Marine Transfer Station	1°17.30	103°38.27	6
116	Pasir Panjang Terminal	1°16.94	103°45.27	26
117	Banyan Fire Station (Jurong Island)	1°15.36	103°40.74	22
118	Handy Road	1°17.96	103°50.76	21
119	Marina Pumping Station	1°17.70	103°51.73	26
120	Botanic Garden	1°18.52	103°49.08	39
121	Home Team Academy	1°23.15	103°42.68	38
122	AVA, Bah Soon Pah Road	1°25.04	103°49.51	26
123	Hong Wen School	1°19.29	103°51.46	31

Table 4: Locations of the AWSs

ID	Station	Wind Sensor (10m)	Wind Sensor (5m)	Wind Sensor (2m)	Tipping Bucket	Thermometer	Hygrometer	Barometer	Solar Radiation	Broadband UV	Total UV	Soil Thermometer	Ceilometer	Visibility Sensor	Evaporation Tank	Doppler Rain sensor	Operational Date
07	Macritchie Reservoir			2													12/02/2009
08	Lower Peirce Reservoir			2													29/01/2010
11	Choa Chu Kang Cemetery Office			2													05/03/2009
24	Changi Climate Station	1		1	1	1	1	1	1	1	1	1	1	1	1	1	28/05/2009
29	Pasir Ris Home Team Chalets			2													05/05/2010
31	CHIJ (Kellock) Primary School			2													28/04/2010
33	Jurong Pier			2													03/02/2010
35	Ulu Pandan Sewage Treatment Work			2													27/02/2009
36	Woodleigh Filters			2													09/07/2009
39	Jurong Industrial Waterworks			2													29/12/2009
40	Singapore Orchids			2													11/12/2009
43	Upper Air Observatory	1		2	1	1	1										28/04/2011
44	National Technological University (NTU)		1	2	1	1											17/03/2009
46	Singapore Golf Club			2													21/01/2010
50	Ngee Ann Polytechnic		1	2	1	1											14/04/2010
55	Woodbridge Hospital			2													06/11/2008
60	Sentosa	1		2	1	1	1	1									04/03/2010
61	Ping Yi Sec School			2													15/12/2009
63	International Road P.S			2													24/03/2009
64	Bukit Panjang Telecom			2													07/12/2009
66	Kranji Reservoir			2													23/10/2008
69	Upper Peirce Reservoir			2													04/02/2010
71	Kent Ridge Road, CRISP			2													24/03/2009
72	Prince Edward Road			2													27/01/2010
77	Queenstown Secondary School			2													23/11/2009
78	Poole Road Pumping Station			2													24/09/2008
79	TripleOne Somerset Building			1													24/03/2011
81	Punggol Secondary School			2													04/06/2009
82	Tuas Incinerator			2													03/03/2009
84	Simei Avenue			2													15/06/2009
86	JTC, Chia Ping Road	1		2	1	1	1										30/11/2009
88	Beatty Secondary School			2													16/03/2010
89	Tuas Fire Station			2													02/10/2008
90	CCAB Bukit Timah Road			2													03/03/2009
91	Yishun Avenue 5			2													19/05/2009
92	NACLI, South Buona Vista			2													02/03/2009
94	Coral Secondary School			2													18/03/2010
96	Changi Naval Base		1	1	1	1											30/11/2010
97	Tuas Naval Base		1	1	1	1											16/02/2011
100	Sungei Kadut, COSEM		1	2	1	1	1										02/10/2008
101	Jurong Junior College			2													10/09/2008
102	Semakau Island	1		2	1	1	1	1									31/10/2008
103	Dairy Farm			1	2	1	1	1									24/11/2008
104	Republic Polytechnic		1		2	1	1										16/10/2008
105	Northwest Regional Office, NEA			2													11/09/2008

ID	Station	Wind Sensor (10m)	Wind Sensor (5m)	Wind Sensor (2m)	Tipping Bucket	Thermometer	Hygrometer	Barometer	Solar Radiation	Broadband UV	Total UV	Soil Thermometer	Ceilometer	Visibility Sensor	Evaporation Tank	Doppler Rain sensor	Operational Date
106	Pulau Ubin	1		2	1	1	1										05/01/2009
107	National Sailing Centre			1	2	1	1	1									10/06/2009
108	Marina Barrage		1		2	1	1	1									08/07/2010
109	Nanyang Polytechnic			1	2	1	1	1									02/09/2009
110	Peicai Secondary School				2												03/06/2009
111	MEWR		1		2	1	1										15/10/2009
112	Sarimbun (Scouts Campsite)				2												29/01/2010
113	Tao Nan School				2												13/05/2009
114	Bukit Panjang Govt High School				2												15/12/2009
115	Tuas Marine Transfer Station	1			2	1	1	1									30/03/2011
116	Pasir Panjang Terminal			1	2	1	1	1									24/02/2010
117	Banyan Fire Station (Jurong Island)			1	2	1	1	1									05/08/2011
118	Handy Road				2												03/09/2010
119	Marina Pumping Station				2												17/09/2010
120	Botanic Garden				2												23/09/2010
121	Home Team Academy		1		2	1	1	1	1								08/03/2011
122	AVA, Bah Soon Pah Road	1			2	1	1	1	1	1							11/10/2010
123	Hong Wen School				2												09/09/2011

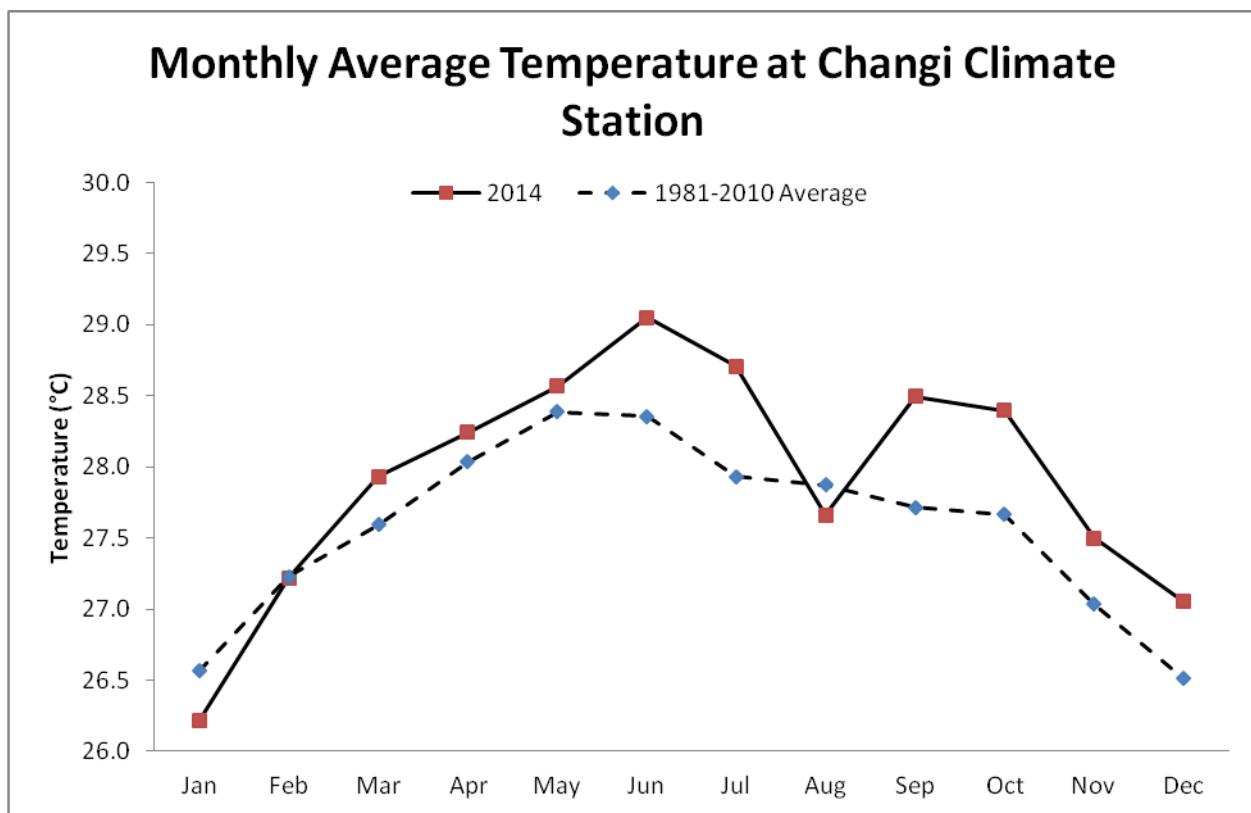
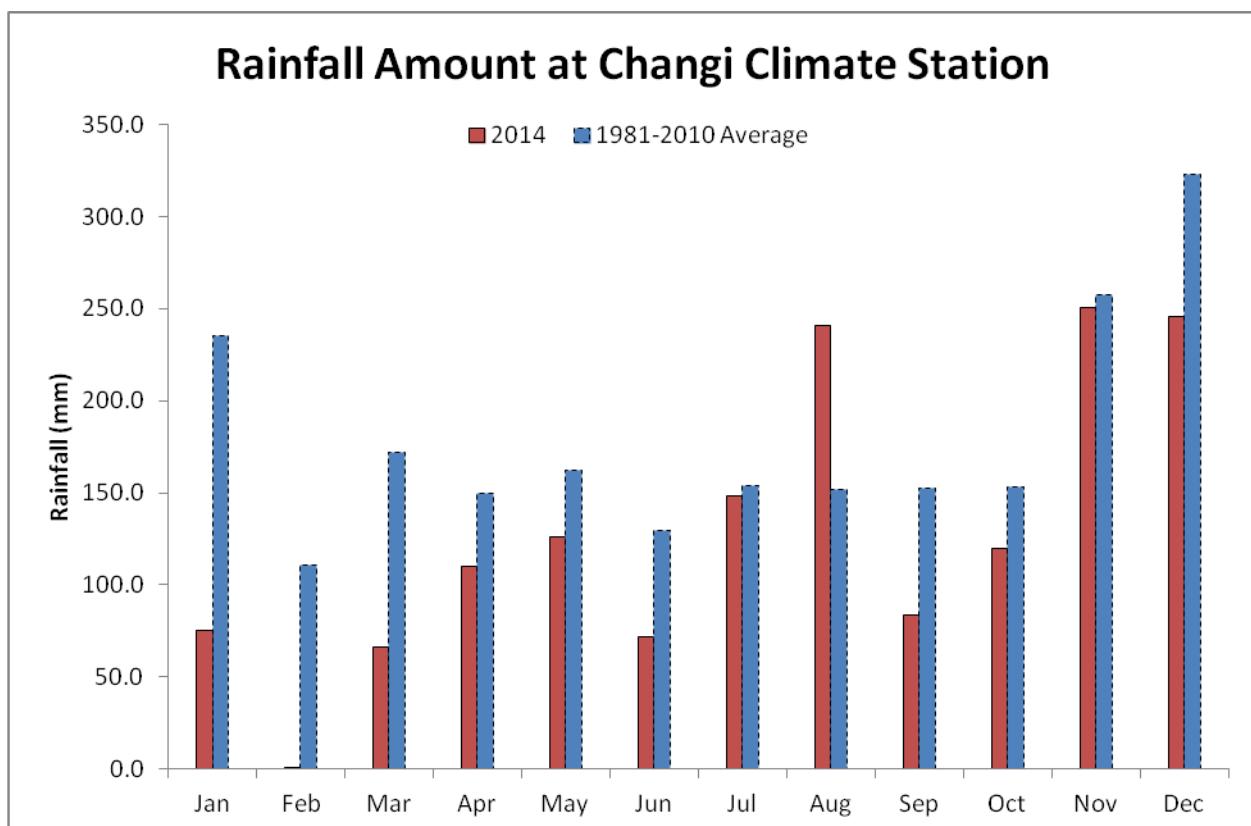
Table 5: Types and numbers of instruments at the AWSs

4. Monthly Records of Changi Climate Station

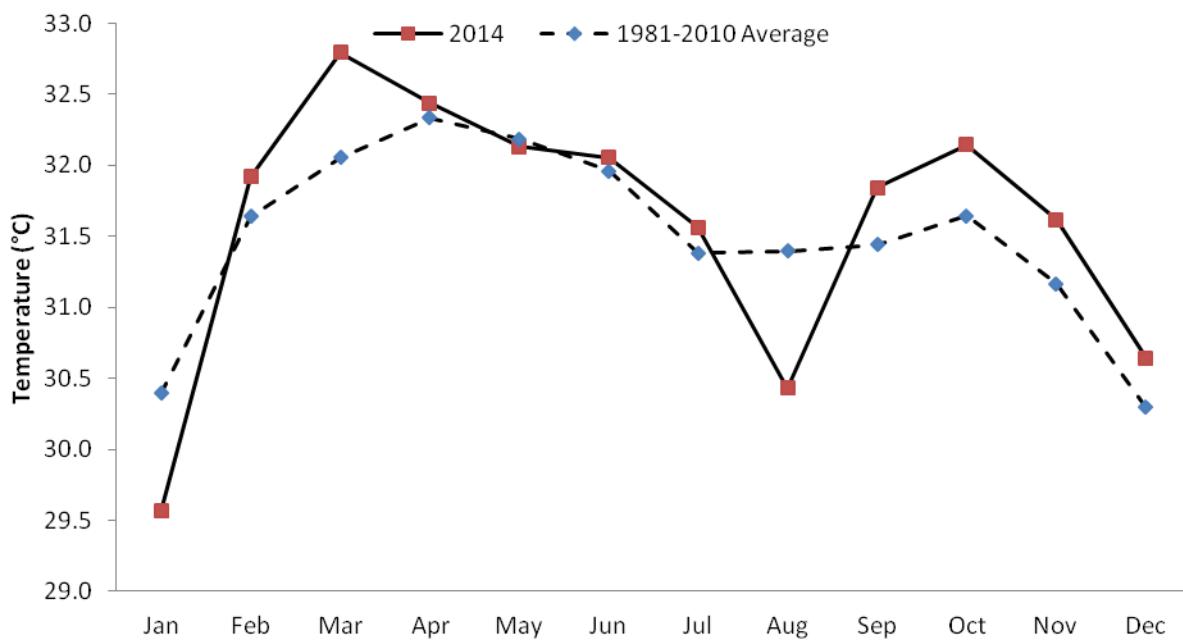
Climate Statistics of Changi Climate Station for 2014

		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Rainfall (mm)	2014	75.4	0.2	66.0	110.0	125.8	71.4	148.6	241.0	83.6	120.0	250.8	245.6
	1981-2010 Average	235.0	110.5	172.2	149.8	162.0	129.2	153.5	151.5	152.6	153.2	257.4	323.1
Raindays	2014	5	1	6	17	18	11	15	20	9	10	23	17
	1981-2010 Average	13	8	13	14	13	12	13	13	13	14	18	19
Temperature (°C)	Monthly Average of Daily Maximum ¹	29.6	31.9	32.8	32.4	32.1	32.1	31.6	30.4	31.8	32.1	31.6	30.6
	1981-2010 Average	30.4	31.6	32.1	32.3	32.2	32.0	31.4	31.4	31.4	31.6	31.2	30.3
Relative Humidity (%)	Monthly Average of Daily Minimum ²	24.0	24.5	25.1	25.5	25.8	26.3	25.8	25.2	25.7	25.7	24.8	24.7
	1981-2010 Average	24.0	24.4	24.7	25.1	25.5	25.5	25.1	25.0	24.8	24.8	24.3	24.1
Wind (m/s)	Monthly 24-hr Average	26.2	27.2	27.9	28.2	28.6	29.0	28.7	27.7	28.5	28.4	27.5	27.1
	1981-2010 Average	26.6	27.2	27.6	28.0	28.4	28.4	27.9	27.9	27.7	27.7	27.0	26.5
Wind (m/s)	2014	90	89	91	94	94	91	92	92	90	92	96	95
	1981-2010 Average	95	94	95	96	95	94	94	93	94	95	96	96
Relative Humidity (%)	2014	64	55	54	58	61	60	63	66	55	56	61	65
	1981-2010 Average	68	63	64	65	66	66	67	66	66	64	68	71
Wind (m/s)	2014	79	75	76	80	80	77	78	80	76	77	82	83
	1981-2010 Average	84	82	83	84	83	82	82	82	82	83	85	86
Wind (m/s)	2014	3.1	3.8	3.2	2.0	1.9	2.2	2.5	2.4	2.8	2.3	1.8	2.0
	1981-2010 Average	3.1	3.2	2.7	2.2	2.3	2.6	2.8	2.9	2.6	2.3	2.1	2.5

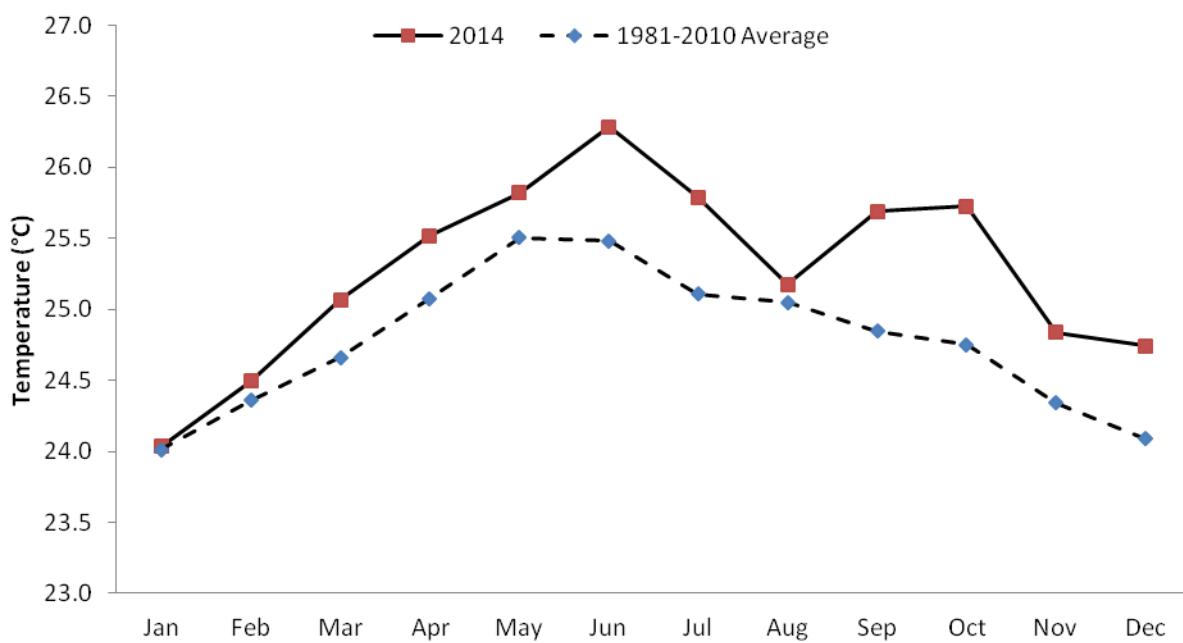
¹Average of all the daily maximum values over a month²Average of all the daily minimum values over a month



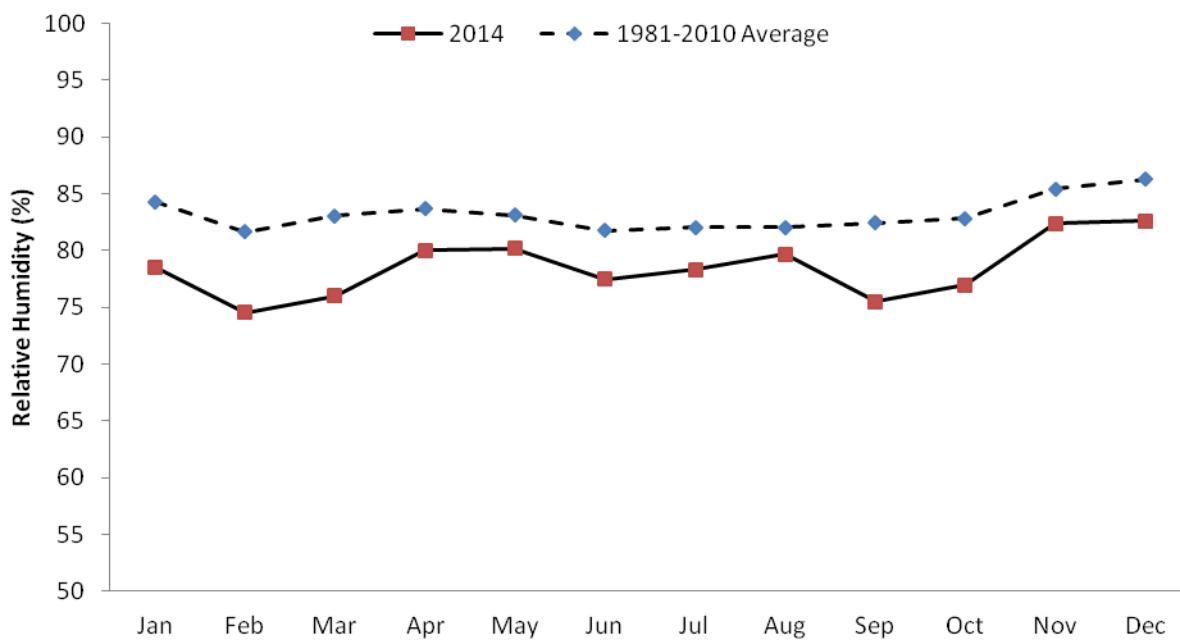
Monthly Average of Daily Maximum Temperature at Changi Climate Station



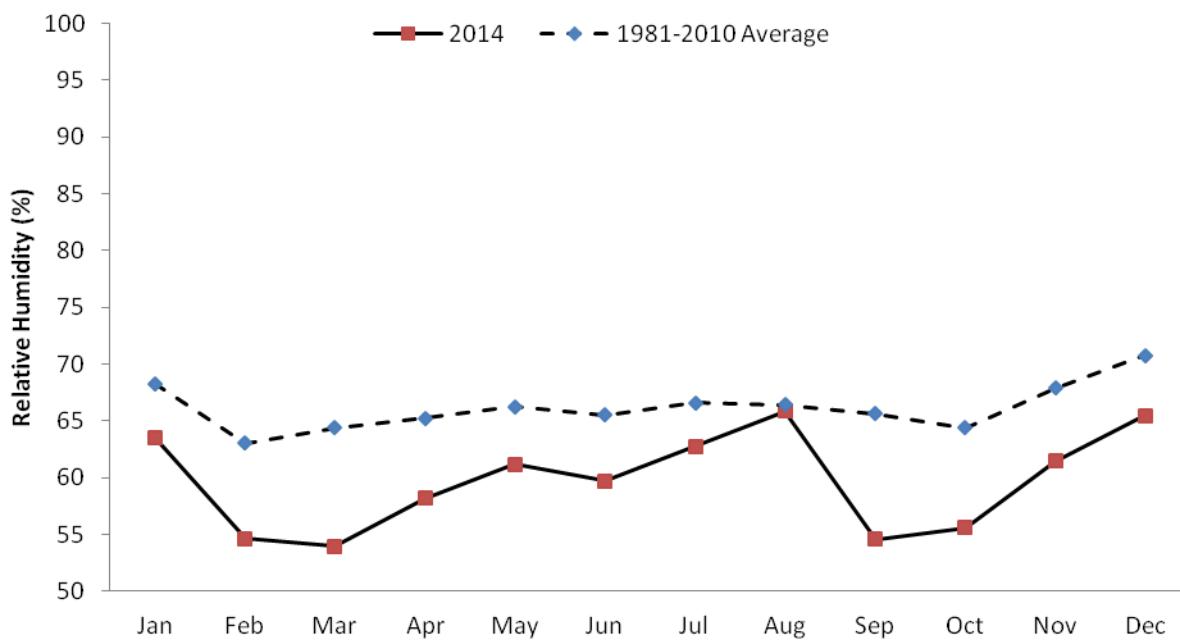
Monthly Average of Daily Minimum Temperature at Changi Climate Station



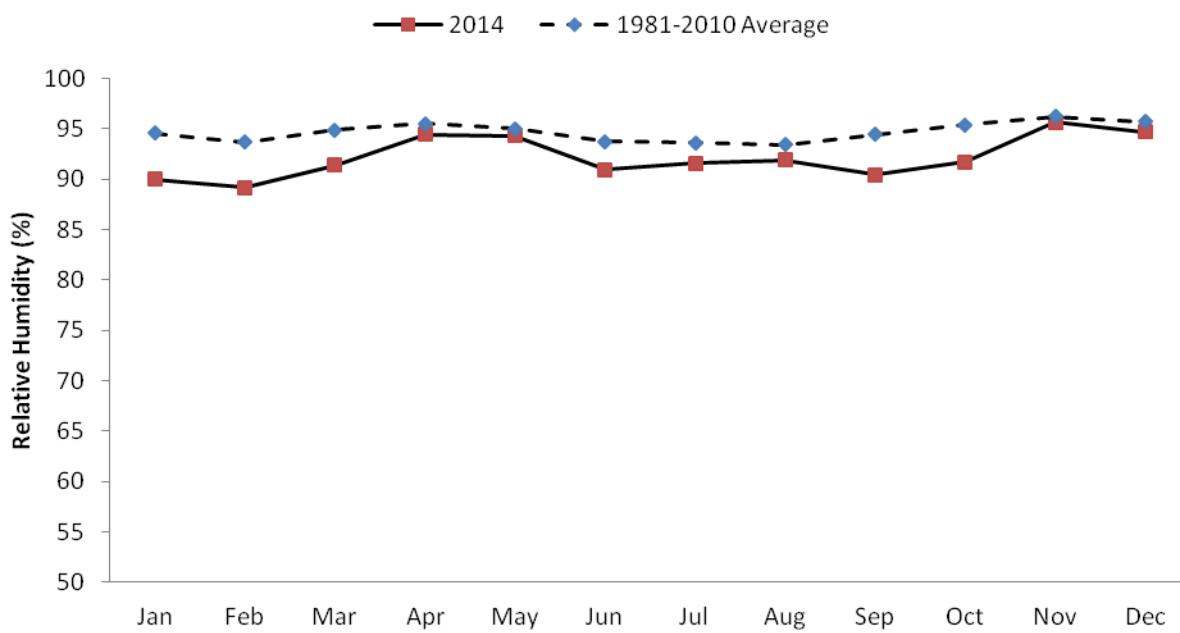
Monthly Average Relative Humidity at Changi Climate Station



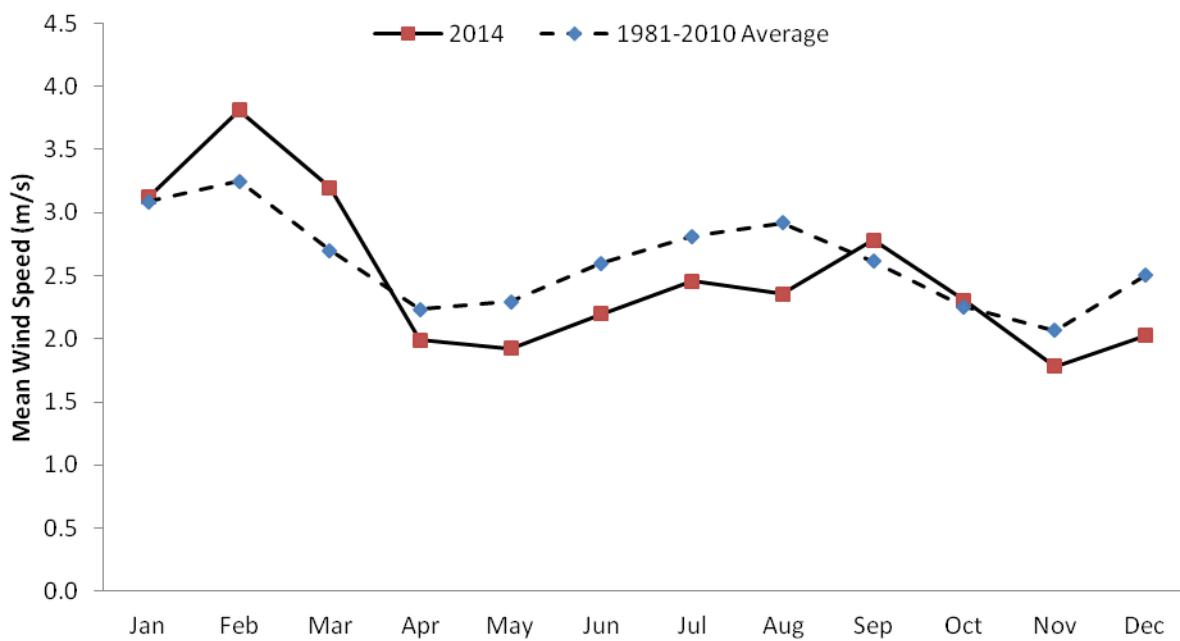
Monthly Average of Daily Minimum Relative Humidity at Changi Climate Station



Monthly Average of Daily Maximum Relative Humidity at Changi Climate Station



Monthly Average Wind Speed at Changi Climate Station



5. Daily Records³ of Changi Climate Station

³ All daily records are defined as records from midnight to midnight Singapore local time, on that calendar date

Daily Total Rainfall (mm), Changi, Singapore 2014

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	2.0	0.4	18.0	0.0	0.0	0.0	0.0	4.4	26.4
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.8	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	9.2	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	1.4	6.6	19.4	1.2	0.0	6.6	0.0	18.8
5	18.4	0.0	0.0	23.4	0.0	8.8	0.8	7.4	0.0	0.0	20.6	0.0
6	31.2	0.0	0.0	0.2	0.2	4.2	2.2	0.4	0.0	0.0	12.4	27.4
7	0.0	0.0	0.0	10.0	18.4	0.0	3.6	9.2	0.8	0.0	10.4	35.2
8	0.0	0.2	0.0	6.6	10.6	0.0	12.6	2.0	0.0	0.0	50.4	0.0
9	2.0	0.0	0.0	1.8	1.4	0.0	12.6	0.0	1.0	0.0	4.4	0.0
10	0.0	0.0	0.0	0.0	0.0	1.6	0.2	0.0	3.2	0.0	1.4	0.0
11	5.6	0.0	0.0	2.8	0.0	0.0	26.8	0.0	1.4	0.0	5.0	0.0
12	18.2	0.0	0.0	8.0	0.4	4.4	0.0	1.4	0.0	0.0	0.4	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0	0.0	64.4	0.0
14	0.0	0.0	0.0	0.0	1.6	18.8	0.0	41.2	0.0	0.0	0.2	0.0
15	0.0	0.0	0.0	0.0	12.2	0.0	0.0	0.6	0.0	0.0	13.6	0.0
16	0.0	0.0	52.6	0.2	20.2	0.0	0.0	0.0	0.0	32.6	8.0	5.0
17	0.0	0.0	5.4	28.8	0.0	0.0	7.8	0.0	0.0	2.4	0.2	17.6
18	0.0	0.0	0.4	0.0	22.2	2.4	0.0	10.4	0.0	2.8	7.6	0.0
19	0.0	0.0	0.0	0.0	7.2	3.2	0.6	0.0	0.0	0.0	0.0	15.6
20	0.0	0.0	2.0	0.2	3.4	0.0	0.0	12.0	31.6	0.0	0.0	0.4
21	0.0	0.0	5.2	5.2	0.0	0.0	0.0	1.6	3.6	4.6	0.2	0.4
22	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	6.0	1.6	0.6
23	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.8	0.0	0.0	3.2	0.2
24	0.0	0.0	0.0	2.2	0.0	1.0	0.0	0.0	9.4	0.0	1.6	0.6
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	23.4	0.0	0.2	36.4
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.2	0.0	0.0	39.4	48.2
27	0.0	0.0	0.0	0.2	0.8	0.0	27.8	8.4	0.0	32.8	0.0	9.6
28	0.0	0.0	0.0	0.2	2.6	0.0	0.0	38.8	0.0	3.2	0.6	1.2
29	0.0	0.4	4.8	17.8	0.0	29.0	39.4	0.0	0.0	0.0	0.6	2.0
30	0.0	0.0	0.0	13.4	0.0	2.4	4.0	0.0	0.0	11.6	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	1.0	0.6	0.6	17.4	0.0	0.0	0.0
Monthly Average	2.4	0.0	2.1	3.7	4.1	2.4	4.8	7.8	2.8	3.9	8.4	7.9

- No Data
- Defective Data

Daily Average Temperature (°C), Changi, Singapore 2014

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	26.7	25.9	27.7	28.4	28.4	28.1	28.2	28.7	29.1	29.1	28.3	26.4
2	27.4	25.5	28.0	28.9	29.4	28.7	28.7	28.6	28.7	28.9	29.3	28.0
3	27.1	26.1	27.6	29.3	29.6	29.4	28.6	28.6	26.9	28.9	29.6	28.6
4	27.1	26.5	27.8	28.6	29.5	27.7	28.1	28.5	28.0	27.5	29.7	25.9
5	24.8	26.2	27.6	26.4	29.4	27.0	27.9	26.5	28.3	27.2	27.7	28.0
6	25.3	26.4	27.5	28.0	29.8	27.4	28.7	27.7	27.7	28.7	26.1	26.8
7	26.7	26.5	27.6	28.6	28.0	29.0	28.5	27.5	27.9	29.0	26.5	26.8
8	27.1	26.9	27.9	27.7	27.4	29.7	28.0	27.6	28.9	29.3	27.2	27.0
9	25.9	27.5	27.6	27.6	29.0	29.4	27.3	28.6	28.2	29.2	27.3	28.0
10	26.8	27.7	27.8	28.0	29.9	29.3	28.7	28.2	28.7	29.5	27.1	28.4
11	26.6	27.6	28.2	27.5	29.0	29.9	28.0	28.1	27.4	28.8	26.7	28.2
12	26.2	27.6	28.3	26.8	28.2	29.2	27.7	26.7	28.4	28.4	27.2	28.4
13	26.9	27.9	28.3	28.5	29.3	29.7	29.0	26.2	28.9	29.1	27.0	28.6
14	26.5	27.6	28.6	28.4	28.4	27.6	29.9	26.8	29.0	28.5	27.8	28.9
15	26.0	27.8	28.6	28.5	29.5	29.4	29.6	26.6	29.2	29.0	27.1	27.9
16	26.2	27.8	26.0	28.7	28.6	30.1	29.4	28.1	29.2	27.5	26.4	26.8
17	26.0	27.8	26.3	28.4	28.6	30.3	28.1	28.4	28.9	28.4	26.5	26.5
18	26.1	27.7	27.5	28.2	26.7	28.9	29.1	28.5	29.2	27.5	25.6	27.8
19	26.0	27.6	27.5	28.9	27.2	29.0	28.8	28.2	29.5	27.6	27.6	25.2
20	25.7	27.7	27.6	28.3	27.5	30.4	29.3	27.5	28.1	28.8	27.8	26.9
21	25.6	27.7	27.7	26.6	27.7	30.6	29.5	28.0	27.7	27.2	27.4	27.2
22	25.5	28.0	27.5	27.9	28.7	29.8	29.7	28.7	29.0	26.0	27.9	26.8
23	25.9	27.4	27.9	28.7	27.1	29.7	29.8	28.7	29.2	28.2	27.9	26.4
24	25.8	27.2	28.1	28.7	28.4	29.3	29.6	27.4	28.7	28.7	27.7	26.9
25	25.8	27.0	28.5	28.9	29.3	28.7	29.7	26.6	26.4	29.2	28.0	27.3
26	25.6	27.3	28.7	29.1	28.8	29.4	29.9	26.8	28.3	29.4	27.3	25.4
27	25.9	27.8	29.1	28.7	28.0	28.0	28.2	26.9	28.7	27.5	27.7	26.0
28	26.5	27.6	28.6	28.6	28.8	28.9	29.1	26.6	28.9	28.0	28.0	26.2
29	26.5		28.6	28.3	28.5	29.2	27.6	26.8	28.9	29.0	26.6	25.8
30	25.8		28.4	28.2	27.9	27.6	27.8	27.4	29.1	28.5	27.9	25.5
31	26.3		28.8		29.0		27.6	28.0		27.7		26.3
Monthly Average	26.2	27.2	27.9	28.2	28.6	29.0	28.7	27.7	28.5	28.4	27.5	27.1

- No Data
- Defective Data

Daily Maximum Temperature (°C), Changi, Singapore 2014

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	29.0	31.6	32.7	32.4	30.8	31.9	32.6	31.2	32.5	32.6	31.8	29.8
2	30.9	30.2	33.8	32.6	32.7	31.2	31.6	31.6	31.6	31.5	32.6	32.7
3	30.4	31.2	32.9	34.2	33.7	32.2	31.2	31.1	31.3	32.6	32.7	33.5
4	31.1	31.3	32.9	32.4	33.4	28.7	29.9	30.5	32.2	30.2	32.9	27.6
5	26.4	30.7	33.5	28.0	33.1	30.5	30.7	28.5	31.2	30.8	33.4	32.0
6	27.1	31.3	33.0	32.5	33.3	31.2	31.5	29.8	30.7	31.9	30.7	30.0
7	30.7	31.6	32.6	34.5	33.8	32.2	31.5	30.8	31.5	32.0	31.6	33.6
8	31.8	31.6	32.8	32.8	32.4	32.6	31.7	29.7	32.0	32.2	32.4	30.4
9	29.3	32.7	32.0	34.0	32.0	32.7	28.3	31.7	31.9	32.1	30.4	31.4
10	30.6	33.8	32.3	31.8	33.3	33.0	32.1	31.6	31.6	32.6	30.0	32.1
11	31.4	32.4	33.6	33.0	33.6	32.9	32.0	30.8	30.5	32.2	31.6	31.8
12	28.9	32.1	33.4	30.2	31.6	32.5	31.1	28.5	31.4	32.6	32.3	32.2
13	30.3	32.7	33.8	33.5	32.6	32.8	32.1	27.2	31.9	34.1	32.0	32.0
14	29.3	31.9	34.1	32.6	31.0	30.3	32.5	29.4	31.5	33.8	32.8	32.4
15	28.2	31.9	32.7	33.4	33.1	32.3	32.2	29.0	32.5	32.8	30.9	32.0
16	28.5	32.1	28.2	33.0	31.5	32.8	32.4	30.7	32.8	31.2	30.8	29.4
17	29.2	31.7	30.7	31.6	30.8	33.0	30.1	30.6	31.7	32.4	32.0	30.0
18	29.3	32.6	32.7	30.9	29.2	32.3	31.4	31.0	32.3	31.6	26.9	31.7
19	29.2	32.2	32.5	32.1	30.0	32.9	31.1	31.1	32.9	32.0	32.3	26.4
20	29.1	32.2	33.6	31.7	32.4	33.3	32.2	31.1	32.2	32.5	31.5	32.1
21	29.4	31.7	33.1	29.6	32.4	33.6	31.9	31.1	31.3	29.3	30.9	31.4
22	28.4	32.3	31.0	33.7	32.1	33.4	32.4	31.4	33.2	28.1	32.3	30.1
23	29.2	32.1	32.8	33.0	30.7	33.2	32.3	31.9	32.4	32.4	32.1	28.8
24	28.5	31.5	33.0	33.7	32.6	32.1	31.8	30.8	32.2	33.1	32.1	30.9
25	29.3	31.8	33.2	34.4	32.6	30.7	33.2	30.4	29.4	33.2	32.7	30.4
26	29.4	32.0	34.0	33.6	32.4	32.0	33.1	29.8	32.3	33.1	32.5	29.8
27	29.8	32.4	34.4	31.7	30.7	29.8	31.0	30.1	32.6	32.1	31.0	30.3
28	30.1	32.1	32.7	32.8	32.6	32.2	31.9	29.8	32.1	32.4	30.9	29.9
29	30.5		33.3	31.6	32.7	32.4	32.0	30.3	31.3	33.0	31.4	28.9
30	30.6		32.3	31.8	31.5	31.0	31.4	31.6	32.3	33.5	31.0	27.1
31	30.6		33.0		31.5		29.2	30.2		32.6		29.2
Monthly Average	29.6	31.9	32.8	32.4	32.1	32.1	31.6	30.4	31.8	32.1	31.6	30.6

- No Data
- Defective Data

Daily Minimum Temperature (°C), Changi, Singapore 2014

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	24.9	22.4	25.1	26.5	24.5	24.2	25.9	27.1	26.7	27.0	25.8	22.4
2	25.0	22.7	24.8	26.3	26.8	26.6	26.0	23.5	25.8	26.8	26.1	24.9
3	24.9	22.9	24.7	27.1	27.4	27.6	26.8	26.3	23.4	25.9	26.7	25.6
4	24.9	23.4	25.0	26.6	26.6	25.6	23.9	25.2	24.2	24.1	26.9	23.6
5	23.3	23.2	24.1	22.8	26.8	25.3	24.3	23.9	25.2	25.2	23.8	24.8
6	23.9	23.1	23.8	24.6	27.2	25.6	25.2	25.9	25.1	25.8	22.8	23.4
7	24.3	23.9	24.2	25.0	24.3	26.2	24.4	23.6	25.9	27.0	24.1	23.8
8	24.7	24.0	24.8	25.4	25.0	27.5	22.7	24.9	25.9	27.0	23.2	24.5
9	24.3	24.7	24.2	24.5	26.6	27.7	22.6	26.7	25.0	27.4	24.0	25.1
10	24.2	24.8	24.9	25.8	27.8	26.1	26.9	27.0	25.5	27.8	25.1	26.0
11	23.7	25.0	25.0	25.3	26.6	27.2	24.1	26.6	24.9	26.8	24.3	25.7
12	23.8	24.9	25.6	23.9	26.5	23.0	25.3	25.1	25.0	26.5	24.4	25.7
13	25.4	25.4	24.7	25.6	26.3	27.4	26.7	25.0	26.1	26.4	22.2	26.0
14	24.5	25.5	25.2	25.8	26.4	23.0	27.6	23.5	27.0	26.0	25.0	26.1
15	24.5	25.4	25.9	25.7	26.8	27.4	28.4	25.5	27.2	26.3	24.4	25.6
16	24.5	25.3	23.6	26.0	23.0	28.3	27.4	25.7	26.9	24.2	24.5	25.7
17	23.7	25.6	24.3	23.5	27.1	28.2	23.4	26.8	27.2	25.6	24.7	24.0
18	24.1	25.2	24.9	26.5	23.7	23.9	27.2	25.2	27.4	24.7	24.8	25.2
19	23.5	24.9	25.4	26.0	23.2	24.5	26.7	26.2	27.3	24.8	24.6	24.2
20	23.6	24.9	25.9	26.4	23.6	28.3	26.7	24.7	22.4	25.4	25.9	24.5
21	23.4	25.8	25.3	24.7	26.0	28.2	27.4	26.1	23.5	24.9	25.3	25.2
22	23.2	25.5	25.0	25.1	26.0	26.7	27.8	26.9	25.4	24.8	25.5	24.6
23	23.9	24.4	24.2	25.6	24.8	27.5	27.9	26.7	26.9	25.0	25.9	25.2
24	24.0	24.6	24.7	25.0	25.0	25.2	27.7	25.7	24.9	25.1	24.9	25.0
25	23.9	24.0	25.2	25.4	26.4	25.2	27.4	24.2	23.3	26.1	25.4	25.1
26	22.7	24.4	25.7	26.9	26.8	27.4	28.1	23.6	25.6	26.9	23.7	23.7
27	23.8	24.9	25.8	24.9	25.7	26.2	23.2	23.2	26.3	24.4	25.2	23.8
28	24.4	25.0	26.2	26.3	26.0	26.9	27.2	23.5	26.8	25.0	26.2	24.2
29	23.9		26.5	26.3	25.0	27.0	21.1	22.0	26.9	25.7	24.9	24.2
30	22.4		25.8	26.0	26.0	24.6	24.7	24.5	27.0	24.9	24.8	24.4
31	23.8		26.6		26.5		24.7	25.6		24.0		24.8
Monthly Average	24.0	24.5	25.1	25.5	25.8	26.3	25.8	25.2	25.7	25.7	24.8	24.7

- No Data
- Defective Data

Daily Average Relative Humidity (%), Changi, Singapore 2014

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	85.3	69.8	74.7	78.5	78.4	82.5	77.0	75.7	69.5	74.6	78.8	84.0
2	82.6	75.3	70.6	76.0	75.6	80.8	78.8	79.0	75.8	73.1	75.0	75.2
3	84.5	72.5	74.8	75.6	77.7	74.5	78.7	77.0	85.1	73.7	71.5	76.6
4	81.3	74.8	72.4	76.9	79.0	86.3	84.3	79.2	79.6	79.2	71.6	86.5
5	92.6	75.1	68.5	88.4	79.2	88.3	83.1	84.8	76.7	77.3	82.5	75.9
6	95.1	74.8	69.7	79.8	78.2	88.1	81.0	80.1	71.4	69.9	87.2	83.4
7	83.3	75.7	74.7	73.1	84.2	80.8	77.8	78.9	78.1	72.5	85.0	86.0
8	78.6	80.8	74.1	82.2	83.5	75.8	78.7	78.8	77.1	72.5	81.9	84.5
9	86.5	79.7	71.1	82.6	79.3	79.0	85.0	75.9	79.3	72.2	80.5	77.3
10	83.5	76.6	71.3	81.0	75.1	81.7	80.3	76.9	75.5	70.5	82.4	73.5
11	83.0	77.1	68.8	82.4	79.0	78.1	83.2	77.4	79.7	75.6	87.4	73.4
12	87.3	76.5	71.0	83.2	81.1	76.3	79.7	83.0	77.4	75.8	82.8	75.3
13	78.8	77.2	71.6	79.6	76.1	75.3	72.0	83.9	75.1	70.3	82.7	76.8
14	77.7	77.7	73.1	78.9	80.5	82.0	70.2	82.3	73.7	77.3	78.0	75.2
15	75.8	75.2	75.8	76.5	72.4	78.3	76.7	84.3	69.2	76.3	81.9	79.3
16	75.2	73.4	91.6	75.7	79.3	72.8	77.5	75.3	66.5	84.8	89.0	84.9
17	73.4	75.0	88.3	80.2	78.4	74.2	82.8	74.9	74.5	81.5	87.0	86.9
18	73.5	77.5	82.4	80.2	87.0	75.9	76.5	76.4	75.4	82.6	92.9	81.8
19	72.9	76.6	81.6	77.8	85.9	72.8	78.8	77.5	75.8	81.1	82.3	93.1
20	73.8	73.1	82.4	81.7	82.3	73.8	76.2	83.6	78.1	76.3	82.8	85.9
21	73.9	73.5	82.3	88.9	84.5	71.1	73.6	79.5	76.5	84.4	84.3	84.0
22	72.5	70.2	78.0	80.9	81.0	73.7	74.0	75.7	68.7	87.3	83.5	83.4
23	71.5	71.7	71.8	79.9	86.4	72.2	74.5	76.9	69.3	75.8	83.2	88.0
24	74.3	68.8	74.2	78.6	82.1	75.2	74.2	82.1	77.3	73.6	82.9	86.5
25	75.4	70.8	75.7	79.3	77.8	75.4	73.7	84.9	84.8	73.1	81.4	85.4
26	74.8	70.9	76.3	78.7	78.9	76.6	74.0	85.2	77.2	74.0	85.8	94.0
27	74.7	73.5	74.4	79.3	82.6	75.7	79.8	80.4	76.1	84.0	82.9	88.7
28	73.9	73.3	78.2	78.9	78.1	73.8	78.3	79.9	75.0	78.6	83.4	86.4
29	72.0		79.7	82.0	81.3	74.1	82.3	80.3	73.5	75.5	83.0	82.0
30	75.5		79.3	84.0	83.9	78.8	84.8	82.1	74.0	79.6	77.8	83.2
31	71.3		77.3		76.5		81.2	78.0		83.6		84.0
Monthly Average	78.5	74.5	76.0	80.0	80.2	77.5	78.3	79.7	75.5	77.0	82.4	82.6

- No Data
- Defective Data

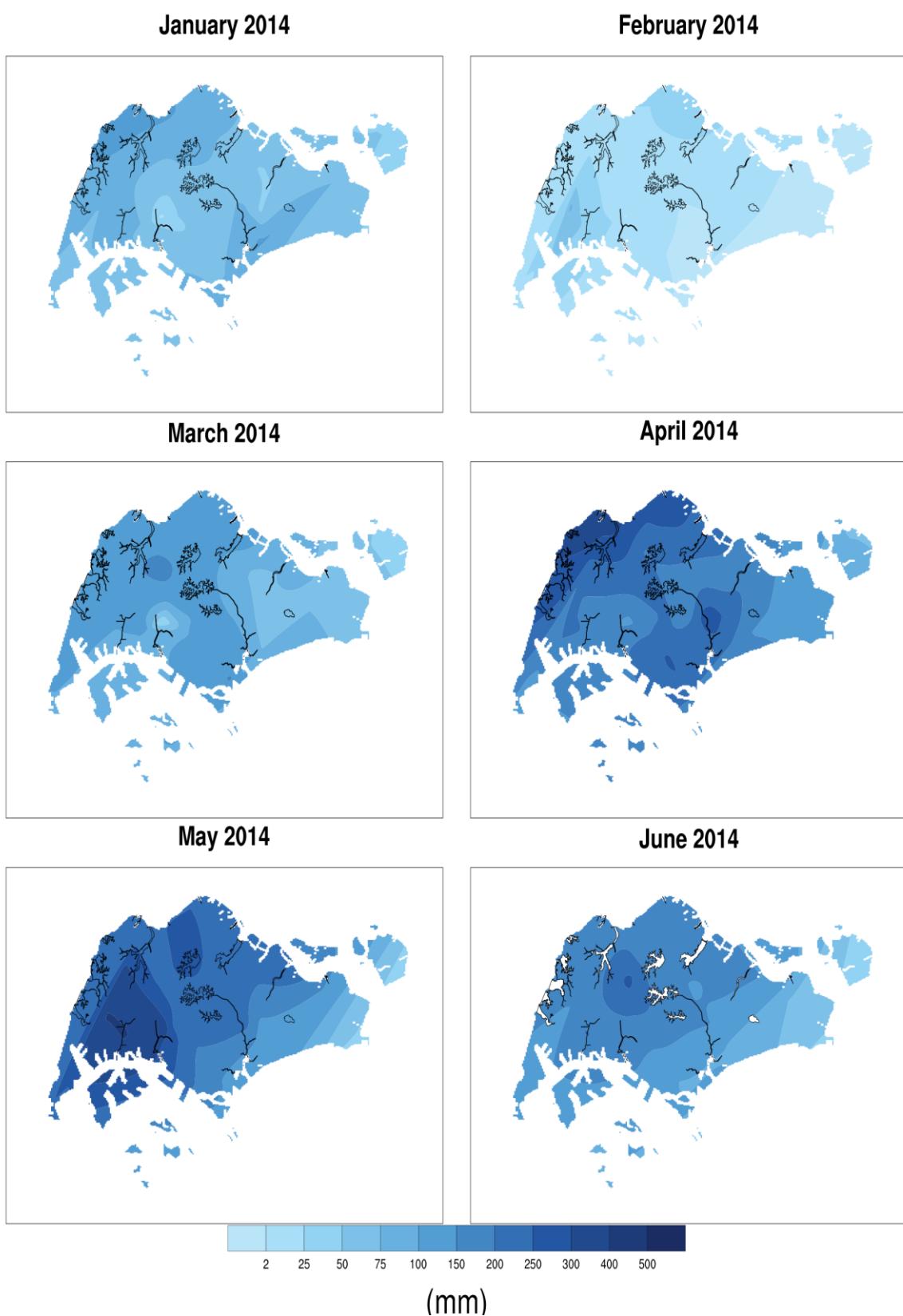
Daily Total Radiation (MJ/m²), Changi, Singapore 2014

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	12.5	24.9	24.9	15.7	15.0	18.7	14.9	15.0	25.4	23.9	14.3	8.9
2	23.2	18.0	24.9	23.0	22.4	13.0	16.4	14.5	21.7	15.9	19.8	12.6
3	19.8	20.9	21.1	22.4	19.7	17.7	14.1	19.0	12.4	19.3	19.2	14.7
4	12.5	22.2	21.2	15.2	23.1	5.5	5.7	16.5	22.2	10.0	22.2	4.4
5	7.4	22.3	24.7	6.5	20.3	9.0	11.1	6.7	21.9	15.4	18.0	18.3
6	4.8	24.6	26.1	20.3	21.4	10.2	14.2	15.6	13.8	18.9	8.4	7.9
7	17.9	18.8	22.5	23.0	14.2	18.0	17.3	20.1	15.3	15.3	15.2	15.6
8	20.1	20.8	24.2	17.9	12.0	17.7	15.9	14.0	21.4	19.1	20.4	13.1
9	10.8	18.7	23.8	20.6	15.9	14.4	7.9	18.9	13.0	16.4	16.9	19.9
10	12.8	21.2	24.2	11.9	20.8	19.8	18.7	18.4	19.3	21.5	12.5	21.3
11	17.1	18.0	25.9	17.4	18.9	19.4	13.6	20.6	8.6	10.9	10.5	17.9
12	9.8	22.5	24.8	9.7	12.5	15.9	14.1	7.4	19.2	13.6	16.6	22.2
13	20.3	22.2	24.5	22.2	16.6	15.1	20.5	6.9	18.4	21.6	17.8	18.2
14	16.9	19.5	24.6	21.5	19.0	6.9	19.9	8.2	18.8	17.9	24.3	24.5
15	10.0	23.8	17.0	20.9	20.2	14.9	17.0	11.3	21.5	16.7	14.4	19.5
16	14.6	24.6	4.7	19.8	15.1	19.3	15.8	14.7	17.0	9.5	12.7	7.0
17	17.3	21.6	10.9	12.5	12.3	20.6	9.2	14.0	15.6	20.8	17.2	13.0
18	16.2	22.4	15.8	14.0	6.1	20.3	21.5	17.4	19.8	15.8	4.0	22.8
19	18.6	21.5	17.6	17.8	7.9	18.5	15.3	21.8	21.8	19.7	22.7	2.1
20	15.6	24.2	17.8	10.8	16.5	22.0	18.8	13.3	13.2	21.5	13.8	16.3
21	19.2	20.7	17.3	6.0	12.5	21.6	21.0	18.4	23.5	9.7	11.7	13.9
22	14.7	26.6	14.9	20.2	19.2	14.9	20.1	21.1	24.6	5.7	17.6	10.3
23	19.8	23.0	27.0	22.3	5.5	15.3	17.3	21.5	21.6	19.1	14.9	7.2
24	13.8	23.7	22.9	21.7	23.0	15.3	17.3	14.7	20.0	23.2	16.2	15.0
25	18.8	23.6	25.0	22.7	13.8	17.2	21.1	13.0	11.9	21.8	16.7	15.6
26	19.8	22.9	25.3	18.2	16.3	21.3	17.9	11.8	20.9	20.2	14.3	10.3
27	19.4	26.0	26.2	14.4	9.6	7.1	12.5	14.8	23.7	13.5	14.5	12.7
28	22.8	25.0	20.4	14.4	19.2	17.6	17.0	8.4	18.7	17.2	14.4	11.7
29	25.0		21.7	13.4	13.0	16.7	10.6	17.2	16.8	21.9	11.6	9.9
30	23.6		18.5	13.6	13.6	13.3	8.7	15.0	19.5	21.0	14.8	7.0
31	26.4		21.9		18.9		12.3	13.3		15.5		12.1
Monthly Average	16.8	22.3	21.4	17.0	15.9	15.9	15.4	15.0	18.7	17.2	15.6	13.7

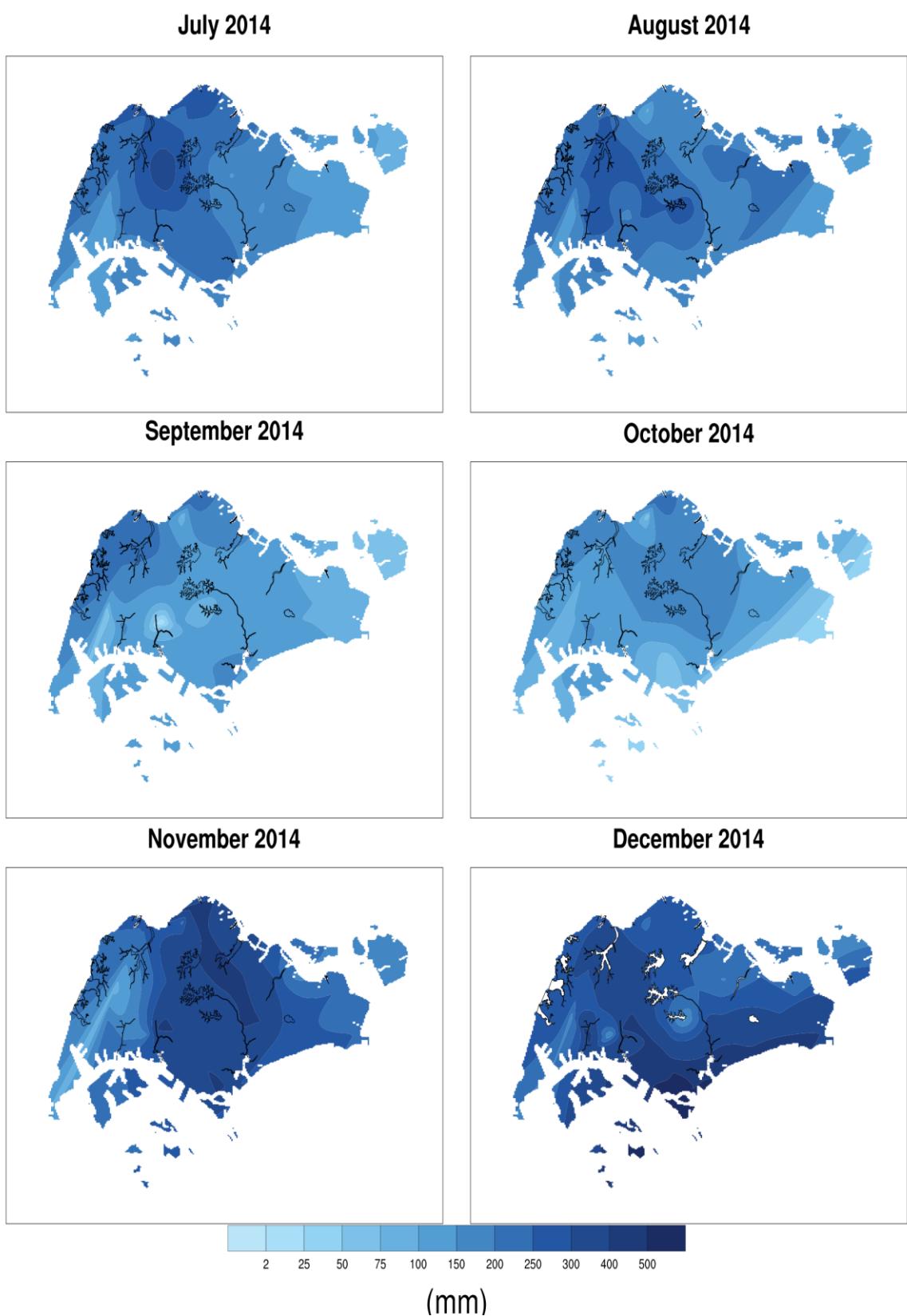
- No Data
- Defective Data

6. Isohyets

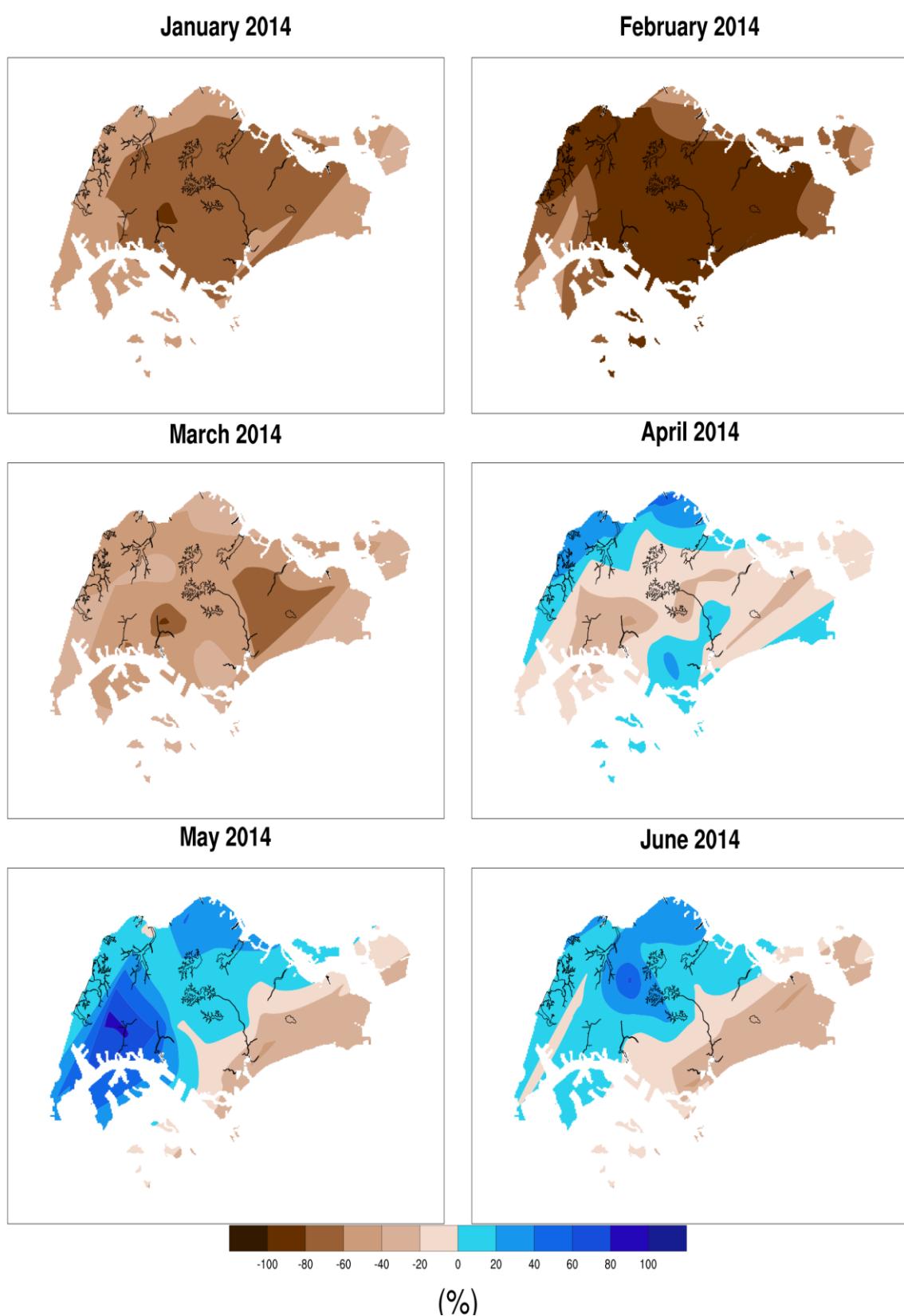
Rainfall Jan-Jun 2014



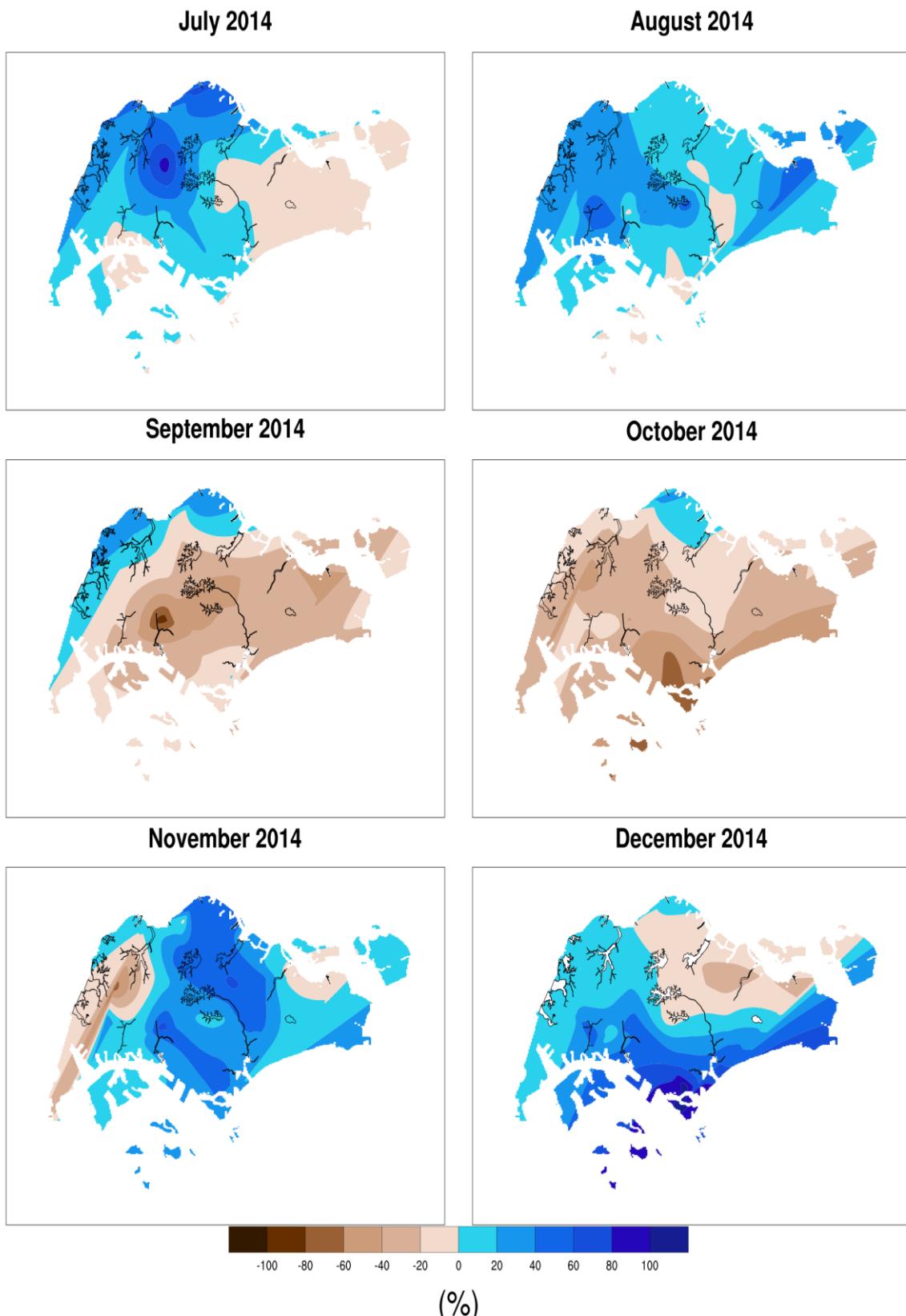
Rainfall Jul-Dec 2014



Rainfall Anomaly Jan-Jun 2014



Rainfall Anomaly Jul-Dec 2014



7. Monthly Observation of Weather Parameters

7.1. 2014 Monthly Average Temperature (°C)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Manned Meteorological Stations												
Changi	26.2	27.2	27.9	28.2	28.6	29.0	28.7	27.7	28.5	28.4	27.5	27.1
Paya Lebar												
Tengah	26.2	27.7	28.0	27.7	27.9	28.4	28.0	27.0	27.8	27.8	27.1	26.3
Selectar	26.3	27.3	27.9	28.5	28.9	29.6	29.2	28.0	28.9	28.8	27.7	27.4
Sembawang	26.2	27.2	27.7	27.5	27.7	28.4	28.2	27.1	28.0	27.9	26.9	26.6
Automatic Meteorological Stations												
Tai Seng	26.5	27.3	28.1	28.7	29.2	29.6	29.3	28.3	29.1	28.9	27.9	27.4
Jurong (West)	25.7	26.8	27.2	27.7	28.0	29.0	—	—	—	—	—	—
Clementi	25.9	26.8	27.4	27.9	28.1	28.5	28.2	27.1	28.1	28.0	27.0	26.6
Sentosa Island	26.5	27.4	27.9	28.3	28.6	28.8	28.6	27.6	28.3	28.6	27.6	27.1
Boon Lay (East)	26.7	27.7	28.3	28.7	28.9	29.5	29.1	28.0	28.9	28.9	27.8	27.1
Semakau Island	—	—	27.9	28.6	29.1	29.2	29.0	28.0	28.8	29.0	28.1	27.0
Admiralty	25.8	26.8	27.4	27.8	28.2	28.9	28.6	27.7	—	27.9	27.2	26.7
Pulau Ubin	—	—	27.1	27.5	28.0	28.4	28.0	27.0	27.8	27.8	27.0	26.6
East Coast Parkway	26.3	27.0	27.5	28.1	28.7	29.1	28.8	27.8	28.4	28.4	27.6	27.1
Marina Barrage	26.6	27.5	28.2	28.8	29.3	29.6	29.3	28.2	29.0	29.2	28.1	27.4
Ang Mo Kio	25.8	26.8	27.5	28.1	28.5	29.2	28.7	27.6	28.5	28.3	27.2	26.8
Newton	26.0	27.0	27.5	28.1	28.4	28.8	28.4	27.4	28.3	28.3	27.3	26.8
Tuas South	26.6	27.6	28.0	28.4	28.7	29.3	29.1	28.1	28.8	28.7	27.7	27.1
Pasir Panjang	26.6	27.5	28.1	28.7	29.0	29.5	29.2	28.3	29.0	28.9	27.9	27.3
Jurong Island	26.9	27.7	28.1	28.8	28.9	29.2	28.9	27.9	28.8	28.9	27.9	27.2
Choa Chu Kang (South)	26.1	27.3	27.7	27.8	28.0	28.8	28.5	27.2	28.2	28.1	27.1	26.6
Khatib	26.4	27.4	28.0	27.7	27.8	28.3	28.0	27.0	28.0	28.0	26.8	26.7
Monthly Average	26.3	27.3	27.8	28.2	28.5	29.0	28.7	27.6	28.5	28.4	27.5	26.9

■ No Data

— Defective Data

7.2. 2014 Monthly Maximum Temperature (°C)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Manned Meteorological Stations												
Changi	31.8	33.8	34.4	34.5	33.8	33.6	33.2	31.9	33.2	34.1	33.4	33.6
Paya Lebar	33.0	34.0	35.0	35.2	35.0	34.7	34.4	33.1	34.8	34.8	35.0	34.5
Tengah	32.6	35.3	36.3	35.3	34.6	35.0	34.4	33.0	34.1	35.3	34.5	34.5
Selectar	32.3	34.5	34.7	35.7	35.4	36.2	35.5	33.6	34.8	35.4	34.7	34.5
Sembawang	31.9	33.7	34.9	34.2	34.1	34.3	33.7	32.6	33.8	34.3	33.9	33.7
Automatic Meteorological Stations												
Tai Seng	31.6	32.9	34.3	34.4	34.4	34.5	33.8	33.2	34.1	34.5	34.4	33.7
Jurong (West)	31.7	33.9	34.6	35.0	34.4	34.4	—	—	—	—	—	—
Clementi	32.0	32.9	34.0	34.4	34.1	33.4	32.5	32.2	33.6	33.5	33.4	33.0
Sentosa Island	32.6	33.6	33.9	33.3	32.9	33.5	33.7	32.4	33.0	33.7	33.0	33.1
Boon Lay (East)	32.3	34.3	34.9	34.8	34.6	34.4	33.6	32.9	33.8	33.9	34.3	33.3
Semakau Island	—	—	31.9	32.1	33.1	32.4	31.8	31.9	32.7	32.9	32.8	31.4
Admiralty	31.9	33.4	34.0	35.8	34.9	34.5	33.9	32.3	—	34.3	34.5	34.5
Pulau Ubin	—	—	33.4	34.8	34.7	34.8	34.6	33.5	33.6	34.0	34.4	33.8
East Coast Parkway	31.1	31.7	32.6	33.2	31.6	31.9	31.5	30.5	32.3	31.4	32.1	32.2
Marina Barrage	34.0	34.9	35.1	34.5	34.5	34.7	34.6	33.7	34.7	34.5	34.5	34.1
Ang Mo Kio	31.8	33.3	34.7	34.9	34.8	35.0	34.1	32.7	34.2	34.4	34.0	33.7
Newton	32.1	33.1	34.2	34.1	33.4	33.6	33.1	31.7	33.3	34.4	33.4	32.9
Tuas South	32.0	33.9	34.5	34.2	33.5	33.5	33.6	32.7	33.2	33.6	33.8	32.9
Pasir Panjang	31.7	33.5	34.0	33.7	33.3	33.3	33.3	31.9	32.7	33.3	32.8	32.8
Jurong Island	33.0	34.5	34.7	33.9	33.4	34.2	33.0	32.0	32.9	33.0	33.2	33.7
Choa Chu Kang (South)	31.7	33.6	34.8	35.1	34.7	34.6	33.6	32.6	33.9	34.5	34.0	33.9
Khatib	32.7	34.1	35.8	35.3	34.7	34.5	34.5	32.7	34.2	34.6	34.1	33.8
Monthly Average	32.2	33.7	34.4	34.5	34.1	34.2	33.7	32.6	33.7	34.0	33.8	33.5

■ No Data

— Defective Data

7.3. 2014 Monthly Average Relative Humidity (%)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Manned Meteorological Stations												
Changi	78.5	74.5	76.0	80.0	80.2	77.5	78.3	79.7	75.5	77.0	82.4	82.6
Paya Lebar												
Tengah	79.9	74.7	77.4	81.4	84.8	81.6	81.3	84.7	80.3	81.5	85.6	86.5
Selectar	85.0	72.7	74.5	77.7	78.0	74.0	75.2	78.0	72.8	74.1	81.5	80.7
Sembawang	79.5	76.0	79.2	85.7	87.0	83.6	83.7	86.3	80.4	82.4	87.2	87.0
Automatic Meteorological Stations												
Tai Seng	—	—	—	75.5	76.6	74.1	75.4	76.1	72.1	73.4	80.3	81.0
Jurong (West)	76.3	71.5	75.0	79.0	80.6	75.3	—	—	—	—	—	—
Clementi	77.5	74.8	76.9	79.4	80.5	78.9	80.0	81.3	76.6	77.4	83.1	84.0
Sentosa Island	71.9	67.3	70.8	76.3	80.3	79.2	78.7	78.3	74.4	71.9	79.2	81.2
Boon Lay (East)	74.0	69.8	72.5	76.5	78.4	75.3	76.6	78.8	72.8	73.7	81.2	83.6
Semakau Island	—	—	74.8	76.7	77.1	77.9	78.1	78.5	75.1	73.5	79.4	82.2
Admiralty	83.1	79.6	81.8	85.5	86.1	81.8	83.6	85.0	—	85.1	89.1	90.2
Pulau Ubin	—	—	85.5	89.3	89.6	88.0	89.1	90.9	86.5	87.1	91.6	92.1
East Coast Parkway	75.1	72.4	73.3	79.2	78.5	76.4	77.5	78.0	76.4	76.6	80.1	79.7
Marina Barrage	74.9	71.5	73.7	77.0	77.4	76.6	77.1	78.4	75.4	74.2	79.8	81.1
Ang Mo Kio	73.6	69.4	71.3	74.9	75.0	71.3	73.0	75.2	69.7	71.3	80.0	81.0
Newton	75.5	71.4	74.7	80.2	81.2	79.2	80.3	82.0	75.7	76.2	84.9	86.1
Tuas South	73.4	70.2	72.8	76.3	77.9	75.9	75.5	76.9	73.5	74.3	79.0	80.4
Pasir Panjang	75.8	73.3	75.6	78.7	80.1	78.7	79.1	79.6	76.1	76.9	82.7	84.3
Jurong Island	69.2	66.5	70.4	73.2	76.5	76.8	77.1	78.2	73.7	73.7	79.8	82.7
Choa Chu Kang (South)	72.5	66.9	70.2	75.8	78.3	72.9	74.6	79.5	73.7	74.7	82.6	85.6
Khatib	76.2	75.9	74.8	75.3	79.8	75.9	76.5	79.7	73.1	73.8	82.1	80.3
Monthly Average	76.1	72.0	75.0	78.7	80.2	77.7	78.5	80.3	75.5	76.4	82.6	83.7

■ No Data

— Defective Data

7.4. 2014 Monthly Minimum Relative Humidity (%)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Manned Meteorological Stations												
Changi	49.0	43.0	38.0	44.0	48.0	45.0	53.0	53.0	37.0	40.0	53.0	51.0
Paya Lebar												
Tengah												
Selectar												
Sembawang												
Automatic Meteorological Stations												
Tai Seng	—	—	—	46.0	46.3	39.3	46.9	47.7	31.8	41.0	40.5	45.7
Jurong (West)	37.3	30.0	30.1	34.8	42.8	33.9	—	—	—	—	—	—
Clementi	45.9	31.5	32.5	43.7	48.6	45.0	52.2	51.2	44.6	46.0	50.0	50.9
Sentosa Island	39.8	30.0	30.4	37.3	49.9	47.0	46.4	47.8	34.0	37.6	46.8	41.1
Boon Lay (East)	42.2	30.0	30.0	38.0	44.3	40.8	43.7	50.0	41.9	38.7	46.2	45.7
Semakau Island	—	—	43.2	40.2	53.5	48.4	52.0	51.0	42.9	45.3	54.3	44.5
Admiralty	46.6	31.6	33.6	38.9	48.2	40.5	46.0	55.0	—	39.2	45.5	43.5
Pulau Ubin	—	—	43.7	46.7	51.2	52.2	49.2	59.9	43.6	41.7	55.7	57.6
East Coast Parkway	47.9	40.2	37.3	50.8	54.0	45.8	53.5	57.4	35.6	48.2	45.0	42.1
Marina Barrage	42.8	31.1	32.0	38.6	49.1	46.3	46.3	46.4	35.7	43.5	46.5	41.5
Ang Mo Kio	40.1	32.3	30.7	35.6	40.7	35.8	39.3	41.4	30.0	34.8	39.1	42.6
Newton	42.6	31.3	32.1	34.6	45.0	42.5	45.1	46.2	34.3	38.9	44.2	44.1
Tuas South	39.0	34.7	33.7	41.8	51.9	51.6	52.1	50.4	46.7	47.0	51.6	47.9
Pasir Panjang	45.1	31.6	36.0	42.7	51.1	50.9	50.3	49.3	44.9	47.9	53.2	48.4
Jurong Island	34.6	30.0	30.0	40.2	47.0	43.0	47.3	46.8	42.2	39.3	50.3	41.3
Choa Chu Kang (South)	37.8	30.0	30.0	39.3	42.1	33.6	39.4	44.7	35.5	33.9	40.2	42.5
Khatib	38.7	30.2	30.0	35.0	43.5	36.7	35.3	41.4	32.9	33.8	39.3	41.4
Monthly Average	41.5	31.8	33.5	40.2	47.6	43.1	46.6	49.2	38.4	41.1	46.8	45.1

■ No Data

— Defective Data

7.5. 2014 Monthly Average Wind Speed (m/s)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Manned Meteorological Stations												
Changi	3.1	3.8	3.2	2.0	1.9	2.2	2.5	2.4	2.8	2.3	1.8	2.0
Paya Lebar	4.4	3.9	3.6	1.7	2.6	3.1	3.1	2.7	2.9	2.3	1.7	3.2
Tengah	4.1	4.0	3.2	2.0	2.2	2.4	2.5	2.4	2.6	2.2	2.2	2.5
Seletar	4.6	5.0	4.0	2.2	2.3	2.7	2.9	2.7	2.9	2.5	2.2	2.6
Sembawang	3.4	3.4	3.1	1.9	1.8	1.9	2.1	2.3	2.6	2.2	1.9	2.4
Automatic Meteorological Stations												
Tai Seng	3.8	3.9	3.0	1.6	1.6	2.0	2.0	1.8	1.9	1.6	1.5	2.1
Jurong (West)	2.7	2.7	2.1	1.5	1.4	1.5	—	—	—	—	—	—
Clementi	1.8	2.0	1.6	1.1	1.2	1.7	1.8	1.5	1.6	1.2	1.1	1.3
Sentosa Island	2.4	2.7	2.5	1.5	1.5	1.6	1.7	1.7	1.8	1.6	1.4	1.5
Boon Lay (East)	2.4	2.6	2.1	1.6	1.7	2.0	2.0	1.8	1.9	1.7	1.7	1.9
Semakau Island	—	—	5.8	3.3	3.3	3.9	4.2	4.0	3.9	3.3	3.5	4.1
Admiralty	3.3	3.4	3.0	1.8	1.7	1.7	1.8	1.8	—	1.8	1.9	2.4
Pulau Ubin	—	—	1.4	0.9	0.9	0.9	1.0	0.9	1.1	1.1	1.3	1.9
East Coast Parkway	3.2	3.3	2.8	2.1	2.7	3.6	3.8	3.6	3.6	2.6	2.0	2.1
Marina Barrage	2.9	2.9	2.4	1.4	1.3	1.3	1.4	1.4	1.5	1.4	1.4	1.8
Ang Mo Kio	2.2	2.3	1.9	1.3	1.4	1.6	1.6	1.6	1.9	1.5	1.2	1.5
Newton	2.2	2.2	2.0	1.5	1.8	2.2	2.3	2.3	2.5	1.9	1.4	1.6
Tuas South	2.1	2.1	1.8	1.7	1.7	1.8	1.7	1.8	1.7	1.5	1.7	1.8
Pasir Panjang	4.0	3.8	3.2	2.5	2.4	2.7	2.8	2.7	2.9	2.4	2.3	2.8
Jurong Island	2.4	2.5	2.7	2.2	2.5	2.6	3.0	3.0	3.3	2.7	2.3	—
Choa Chu Kang (South)	2.4	2.5	1.9	1.1	1.1	1.3	1.3	1.2	1.3	1.1	1.1	1.3
Khatib	1.9	2.1	1.9	1.1	1.1	1.3	1.3	1.2	1.4	1.2	1.1	1.3
Monthly Average	3.0	3.0	2.7	1.7	1.8	2.1	2.2	2.1	2.3	1.9	1.7	2.1

■ No Data

— Defective Data

7.6. 2014 Monthly Maximum Gust (m/s)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Manned Meteorological Stations												
Changi	11.9	11.9	11.7	12.0	11.8	16.8	19.6	14.7	17.2	11.7	14.1	13.8
Paya Lebar	13.9	14.9	11.8	12.3	13.9	14.9	18.0	15.4	11.8	13.9	14.9	14.9
Tengah	12.9	14.4	12.3	15.4	13.4	13.4	15.4	14.9	12.9	15.9	13.4	14.9
Selectar	14.4	14.4	13.9	12.3	12.9	16.5	14.4	14.4	13.4	12.9	13.9	14.4
Sembawang	—	—	—	10.8	—	11.8	13.9	12.9	12.9	11.3	17.0	11.3
Automatic Meteorological Stations												
Tai Seng	13.2	13.9	12.0	33.0	11.6	14.1	13.6	16.9	17.6	10.3	19.1	27.5
Jurong (West)	11.9	10.9	10.7	14.6	12.7	14.7	—	—	—	—	—	—
Clementi	12.6	12.6	11.2	10.6	12.0	11.1	12.5	11.4	13.1	10.7	10.6	12.8
Sentosa Island	11.9	13.0	11.6	11.5	11.6	14.4	11.9	14.0	13.4	9.5	10.0	13.2
Boon Lay (East)	11.8	11.2	10.2	17.4	15.7	19.8	16.7	18.0	14.3	23.8	15.0	13.7
Semakau Island	—	—	21.9	17.1	20.4	26.2	21.6	22.8	18.3	19.4	19.0	19.3
Admiralty	14.9	14.2	12.7	13.3	12.9	16.8	17.4	13.6	—	13.6	22.2	14.8
Pulau Ubin	—	—	9.2	10.3	9.8	15.8	15.7	27.6	12.0	14.5	14.9	12.3
East Coast Parkway	14.3	13.2	12.0	13.8	15.0	20.1	18.5	15.4	18.1	11.3	14.9	20.2
Marina Barrage	12.6	12.3	20.9	23.6	11.7	12.9	27.8	14.1	12.1	20.8	26.5	17.2
Ang Mo Kio	11.5	12.0	10.7	10.7	12.5	13.9	15.7	12.9	12.3	11.9	11.9	10.5
Newton	12.5	12.7	12.7	14.0	13.7	19.6	16.4	16.0	14.7	12.5	15.3	12.6
Tuas South	20.1	10.0	10.6	11.9	17.0	24.6	19.2	14.8	19.3	13.1	12.3	16.2
Pasir Panjang	14.0	16.6	15.9	20.6	17.3	28.8	18.2	17.2	18.8	16.8	18.0	18.6
Jurong Island	11.9	13.0	15.3	25.8	14.1	15.9	18.4	16.3	25.0	18.2	25.5	—
Choa Chu Kang (South)	10.8	11.0	9.7	13.9	11.3	16.3	13.1	12.7	11.0	11.4	11.3	15.6
Khatib	10.0	14.3	11.0	10.0	10.4	12.5	11.0	11.3	10.2	11.5	17.0	10.5
Monthly Average	13.1	13.0	12.8	15.4	13.5	16.9	16.5	15.6	14.8	14.2	16.1	15.3

■ No Data

— Defective Data

7.7. 2014 Monthly Total Rainfall (mm)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Yearly Total
Manned Meteorological Stations													
Changi	75.4	0.2	66.0	110.0	125.8	71.4	148.6	241.0	83.6	120.0	250.8	245.6	1538.4
Paya Lebar	55.9	27.3	—	304.9	234.2	168.6	141.4	169.5	137.3	141.2	312.7	280.4	—
Tengah	96.3	23.4	150.0	276.9	238.8	190.5	267.0	299.3	216.1	131.4	204.6	442.3	2536.6
Seletar	60.4	20.8	125.7	125.3	239.9	149.8	167.1	177.8	93.0	232.0	435.6	198.6	2026.0
Sembawang	119.0	43.7	251.7	140.7	299.6	153.9	225.2	220.1	110.1	144.9	489.6	349.9	2548.4
Automatic Meteorological Stations													
Tai Seng	46.6	6.4	67.0	242.0	144.4	117.0	146.2	169.2	127.6	161.6	400.8	321.6	1950.4
Jurong (West)	88.6	80.0	116.8	223.6	405.8	—	—	—	—	—	—	—	—
Clementi	50.0	20.6	73.2	175.0	224.8	177.0	242.8	258.0	107.6	149.2	375.0	402.6	2255.8
Sentosa Island	84.8	0.6	114.2	214.2	148.0	119.4	191.4	162.0	147.8	50.6	313.2	587.6	2133.8
Boon Lay (East)	87.2	23.0	127.1	161.4	395.2	184.0	259.2	257.6	106.0	183.8	266.8	457.0	2508.3
Semakau Island	—	—	37.4	133.4	132.4	189.4	119.2	152.5	93.2	67.6	251.4	395.2	—
Admiralty	98.8	15.8	120.0	261.4	301.0	196.0	237.8	—	—	—	235.9	225.2	—
Pulau Ubin	—	—	—	115.8	146.5	102.8	134.0	177.2	146.0	115.2	263.2	282.8	—
East Coast Parkway	52.0	2.4	—	—	179.2	128.6	184.2	121.4	96.4	46.4	189.6	269.0	—
Marina Barrage	84.4	3.0	168.2	241.4	91.6	71.4	204.6	155.8	203.2	97.2	282.0	455.0	2057.8
Ang Mo Kio	66.6	8.4	85.2	180.0	220.6	143.8	146.4	180.6	105.2	164.6	418.4	250.0	1969.8
Newton	62.4	0.4	99.8	297.4	227.8	125.0	221.8	245.6	96.2	141.8	303.8	382.6	2204.6
Tuas South	109.2	56.4	142.6	96.4	195.0	185.8	140.4	130.0	80.8	107.0	223.6	284.6	1751.8
Pasir Panjang	46.2	21.2	165.8	95.2	239.8	144.6	120.4	244.0	59.0	66.2	253.0	355.2	1810.6
Jurong Island	72.0	87.8	95.6	100.4	243.0	173.2	106.6	—	—	175.0	261.0	303.8	—
Choa Chu Kang (South)	79.4	13.4	136.0	186.6	301.8	236.8	249.6	266.4	156.8	91.2	189.6	336.8	2244.4
Khatib	114.2	40.6	196.2	105.1	252.8	167.6	203.6	212.4	121.6	126.8	426.8	330.6	2298.3
Monthly Average	77.6	26.1	126.3	183.9	231.5	156.3	185.4	200.0	122.4	126.0	304.8	345.5	2085.7

■ No Data

— Defective Data

7.7. 2014 Monthly Total Rainfall (mm)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Yearly Total
Precipitation Stations													
Macritchie Reservoir	61.4	1.0	107.0	151.4	235.6	164.0	187.4	310.6	114.0	180.6	321.4	—	—
Lower Peirce Reservoir	70.4	9.6	92.8	181.6	188.0	196.4	177.8	246.2	113.4	169.2	416.6	227.8	2089.8
Choa Chu Kang (West)	—	36.4	142.4	—	365.4	157.2	192.4	—	—	97.4	—	—	—
Pasir Ris (West)	55.2	4.2	83.6	176.8	220.0	151.2	147.8	208.0	99.0	120.4	184.8	250.2	1701.2
Kampong Bahru	63.2	0.2	130.2	244.6	176.8	90.8	213.2	186.8	152.6	75.0	446.0	646.4	2425.8
Jurong Pier	76.6	28.6	81.7	185.2	363.4	177.2	180.6	236.2	132.4	149.2	259.2	374.6	2244.9
Ulu Pandan	18.8	0.0	—	127.4	357.0	177.8	228.0	165.0	0.0	128.6	462.4	461.2	—
Serangoon	83.3	2.0	91.3	294.4	224.0	153.4	189.8	181.8	109.2	206.2	411.0	322.2	2268.6
Jurong (East)	71.0	28.6	111.0	190.6	361.0	178.4	238.2	278.0	—	—	—	—	—
Mandai	85.2	11.8	132.8	197.2	273.6	174.4	260.6	229.4	160.2	164.6	414.0	311.0	2414.8
Upper Thomson	62.0	5.0	120.2	209.0	231.8	187.4	219.2	251.6	76.6	174.4	314.8	252.4	2104.4
Buangkok	49.2	10.0	67.8	165.8	206.2	173.6	176.4	217.8	122.0	186.2	382.8	196.4	1954.2
Chai Chee	40.8	9.2	58.0	197.6	191.8	161.4	151.4	168.4	95.0	113.4	247.2	344.0	1778.2
Boon Lay (West)	93.2	29.5	107.5	170.0	418.3	205.6	249.0	289.0	168.4	183.6	—	468.8	—
Bukit Panjang	67.4	4.2	165.2	232.4	224.6	265.4	356.6	264.6	178.8	165.8	290.4	338.2	2553.6
Kranji Reservoir	109.4	4.0	136.6	331.6	198.5	173.8	251.0	250.0	248.4	175.4	264.6	317.4	2460.7
Upp Peirce Reservoir	72.0	19.2	117.8	177.6	165.4	203.6	196.0	225.0	120.8	156.4	355.6	300.0	2109.4
Kent Ridge	49.0	8.8	137.2	144.2	171.4	197.0	218.6	334.2	89.4	41.6	343.8	484.8	2220.0
Tanjong Pagar	82.6	0.0	155.4	227.2	124.4	91.0	208.4	182.2	180.4	95.6	376.2	476.0	2199.4
Queenstown	55.4	1.2	142.4	259.8	177.4	127.6	231.4	177.4	141.2	56.8	390.6	451.2	2212.4
Tanjong Katong	106.0	3.6	73.0	205.4	110.0	94.4	180.8	183.4	146.4	129.6	307.8	429.4	1969.8
Somerset (Road)	119.0	43.7	251.7	140.7	299.6	153.9	225.2	220.1	110.1	144.9	489.6	349.9	2548.4
Punggol	67.4	48.0	51.4	196.4	231.4	164.8	147.2	187.0	—	—	242.8	251.4	—
Tuas West	124.2	34.6	139.8	86.8	332.0	173.8	243.2	154.2	100.2	76.0	186.0	303.0	1953.8
Simei	87.2	23.0	127.1	161.4	395.2	184.0	259.2	257.6	106.0	183.8	266.8	457.0	2508.3
Toa Payoh	74.8	3.0	101.8	250.8	272.9	135.6	175.8	218.6	124.6	166.8	317.6	324.8	2167.1
Tuas	87.2	53.4	131.0	193.0	258.6	171.0	236.8	143.4	108.6	88.6	182.0	346.2	1999.8
Bukit Timah	55.8	0.6	126.2	262.4	192.4	—	—	—	—	—	343.6	375.8	—
Yishun	—	242.6	189.0	274.0	134.4	202.0	216.6	93.6	134.6	471.8	297.4	—	—
Buona Vista	45.4	13.8	171.6	179.8	202.4	154.2	212.8	259.8	85.2	47.0	385.0	—	—
Pasir Ris (Central)	58.6	6.4	81.8	247.0	224.2	132.8	164.6	167.4	125.0	138.8	164.2	281.6	1792.4
Jurong (North)	86.4	17.4	151.6	239.4	448.2	202.8	272.4	313.8	131.0	167.4	229.2	—	—
Admiralty West	94.2	50.6	148.8	293.0	248.6	178.2	282.0	184.4	219.2	216.6	433.0	299.4	2648.0
Serangoon North	58.0	3.0	81.8	190.8	282.6	149.2	148.8	—	—	235.2	356.4	235.4	—
Lim Chu Kang	96.4	51.0	131.0	198.4	266.0	124.2	278.0	209.8	349.0	143.6	205.6	283.0	2336.0
Marine Parade	—	—	58.2	223.6	128.6	—	148.8	162.0	120.6	57.4	284.6	382.4	—
Choa Chu Kang (Central)	66.8	9.2	155.0	139.0	—	273.4	291.8	287.8	183.6	104.8	244.6	304.2	—
Dhoby Ghaut	75.2	1.0	126.8	301.6	198.4	112.2	269.0	204.8	140.8	124.0	361.0	396.4	2311.2
Nicoll Highway	88.8	0.8	125.4	263.0	154.4	82.8	234.2	178.8	166.6	147.6	364.0	451.2	2257.6
Botanic Garden	59.2	1.4	139.8	291.6	222.0	143.6	235.0	201.4	124.6	74.6	348.6	402.6	2244.4
Whampoa	79.6	5.2	94.6	312.4	220.6	111.8	191.6	153.8	127.0	138.2	261.0	338.6	2034.4
Monthly Average	73.4	15.2	123.0	208.1	246.6	162.4	217.5	220.4	135.3	135.7	326.1	354.1	2217.9

■ No Data

— Defective Data

8. Weather Parameter Observation by Months

8.1. Jan to Apr

January 2014

Station	Rain	Air Temperature			RH	Wind			Pressure
	Total	Min	Average	Max		Max	Average	Precipitation	
	mm	°C	°C	°C		m/s	m/s	Direction	Average hPa
Manned Meteorological Stations									
Changi	75.4	22.4	26.2	31.8	78.5	11.9	3.1	N	1012.1
Paya Lebar	55.9	22.1	26.0	33.0	—	13.9	4.4	NE	1011.7
Tengah	96.3	20.1	26.2	32.6	79.9	12.9	4.1	NE	1011.6
Seletar	60.4	22.7	26.3	32.3	85.0	14.4	4.6	N	1011.8
Sembawang	119.0	21.0	26.2	31.9	79.5	—	3.4	N	1011.7
Automatic Meteorological Stations									
Tai Seng	46.6	23.7	26.5	31.6	—	13.2	3.8	ENE	1012.5
Jurong (West)	88.6	22.0	25.7	31.7	76.3	11.9	2.7	NNE	—
Clementi	50.0	22.5	25.9	32.0	77.5	12.6	1.8	NE	—
Sentosa Island	84.8	23.6	26.5	32.6	71.9	11.9	2.4	NNE	1012.5
Boon Lay (East)	87.2	23.4	26.7	32.3	74.0	11.8	2.4	ENE	1012.3
Semakau Island	—	—	—	—	—	—	—	—	—
Admiralty	98.8	22.4	25.8	31.9	83.1	14.9	3.3	NNE	—
Pulau Ubin	—	—	—	—	—	—	—	—	—
East Coast Parkway	52.0	23.4	26.3	31.1	75.1	14.3	3.2	N	1012.5
Marina Barrage	84.4	23.8	26.6	34.0	74.9	12.6	2.9	NNE	1012.3
Ang Mo Kio	66.6	22.5	25.8	31.8	73.6	11.5	2.2	NNE	—
Newton	62.4	23.3	26.0	32.1	75.5	12.5	2.2	N	—
Tuas South	109.2	23.2	26.6	32.0	73.4	20.1	2.1	NE	1012.4
Pasir Panjang	46.2	23.8	26.6	31.7	75.8	14.0	4.0	NE	1012.1
Jurong Island	72.0	23.4	26.9	33.0	69.2	11.9	2.4	N	1012.1
Choa Chu Kang (South)	79.4	22.6	26.1	31.7	72.5	10.8	2.4	NNE	—
Khatib	114.2	22.4	26.4	32.7	76.2	10.0	1.9	NNE	1012.7

- No Data
- Defective Data

February 2014

Station	Rain	Air Temperature			RH	Wind		Pressure	
	Total	Min	Average	Max	Average	Max	Average	Prevailing	Average
	mm	°C	°C	°C	%	m/s	m/s	Direction	hPa
Manned Meteorological Stations									
Changi	0.2	22.4	27.2	33.8	74.5	11.9	3.8	NE	1010.7
Paya Lebar	27.3	22.3	—	34.0	—	14.9	3.9	NE	1010.3
Tengah	23.4	20.1	27.7	35.3	74.7	14.4	4.0	NE	1010.1
Seletar	20.8	22.3	27.3	34.5	72.7	14.4	5.0	NNE	1010.3
Sembawang	43.7	20.7	27.2	33.7	76.0	—	3.4	N	1010.2
Automatic Meteorological Stations									
Tai Seng	6.4	23.2	27.3	32.9	—	13.9	3.9	ENE	1011.1
Jurong (West)	80.0	20.8	26.8	33.9	71.5	10.9	2.7	NNE	—
Clementi	20.6	22.2	26.8	32.9	74.8	12.6	2.0	NE	—
Sentosa Island	0.6	23.5	27.4	33.6	67.3	13.0	2.7	NE	1011.1
Boon Lay (East)	23.0	21.5	27.7	34.3	69.8	11.2	2.6	ENE	1010.8
Semakau Island	—	—	—	—	—	—	—	—	—
Admiralty	15.8	21.8	26.8	33.4	79.6	14.2	3.4	NE	—
Pulau Ubin	—	—	—	—	—	—	—	—	—
East Coast Parkway	2.4	21.1	27.0	31.7	72.4	13.2	3.3	NNE	1011.1
Marina Barrage	3.0	22.0	27.5	34.9	71.5	12.3	2.9	NE	1010.9
Ang Mo Kio	8.4	22.2	26.8	33.3	69.4	12.0	2.3	NE	—
Newton	0.4	23.0	27.0	33.1	71.4	12.7	2.2	N	—
Tuas South	56.4	21.7	27.6	33.9	70.2	10.0	2.1	NE	1010.9
Pasir Panjang	21.2	22.2	27.5	33.5	73.3	16.6	3.8	NE	1010.7
Jurong Island	87.8	21.4	27.7	34.5	66.5	13.0	2.5	N	1010.6
Choa Chu Kang (South)	13.4	22.5	27.3	33.6	66.9	11.0	2.5	NNE	—
Khatib	40.6	21.9	27.4	34.1	75.9	14.3	2.1	NE	1011.3

- No Data
- Defective Data

March 2014

Station	Rain	Air Temperature			RH	Wind			Pressure
	Total	Min	Average	Max	Average	Max	Average	Prevailing	Average
	mm	°C	°C	°C	%	m/s	m/s	Direction	hPa
Manned Meteorological Stations									
Changi	66.0	23.6	27.9	34.4	76.0	11.7	3.2	NE	1011.0
Paya Lebar	—	23.9	—	35.0	—	11.8	3.6	NE	1010.6
Tengah	150.0	22.0	28.0	36.3	77.4	12.3	3.2	NE	1010.3
Seletar	125.7	24.1	27.9	34.7	74.5	13.9	4.0	N	1010.5
Sembawang	251.7	21.7	27.7	34.9	79.2	—	3.1	NE	1010.5
Automatic Meteorological Stations									
Tai Seng	67.0	23.9	28.1	34.3	—	12.0	3.0	ENE	1011.4
Jurong (West)	116.8	23.0	27.2	34.6	75.0	10.7	2.1	NNE	—
Clementi	73.2	23.7	27.4	34.0	76.9	11.2	1.6	NE	—
Sentosa Island	114.2	23.7	27.9	33.9	70.8	11.6	2.5	NE	1011.4
Boon Lay (East)	127.1	24.0	28.3	34.9	72.5	10.2	2.1	E	1011.2
Semakau Island	37.4	24.6	27.9	31.9	74.8	21.9	5.8	NNE	—
Admiralty	120.0	23.5	27.4	34.0	81.8	12.7	3.0	NE	—
Pulau Ubin	—	22.4	27.1	33.4	85.5	9.2	1.4	NE	1011.2
East Coast Parkway	—	23.8	27.5	32.6	73.3	12.0	2.8	NNE	1012.2
Marina Barrage	168.2	23.6	28.2	35.1	73.7	20.9	2.4	NE	1011.2
Ang Mo Kio	85.2	23.7	27.5	34.7	71.3	10.7	1.9	ENE	—
Newton	99.8	23.8	27.5	34.2	74.7	12.7	2.0	N	—
Tuas South	142.6	23.6	28.0	34.5	72.8	10.6	1.8	NE	1011.2
Pasir Panjang	165.8	23.5	28.1	34.0	75.6	15.9	3.2	NE	1011.0
Jurong Island	95.6	23.9	28.1	34.7	70.4	15.3	2.7	N	1010.9
Choa Chu Kang (South)	136.0	23.6	27.7	34.8	70.2	9.7	1.9	NNE	—
Khatib	196.2	23.4	28.0	35.8	74.8	11.0	1.9	NE	1011.5

- No Data
- Defective Data

April 2014

Station	Rain	Air Temperature			RH %	Wind			Pressure
	Total mm	Min °C	Average °C	Max °C		Max m/s	Average m/s	Prevailing Direction	Average hPa
Manned Meteorological Stations									
Changi	110.0	22.8	28.2	34.5	80.0	12.0	2.0	N	1010.1
Paya Lebar	304.9	23.5		35.2		12.3	1.7	ENE	1009.7
Tengah	276.9	22.3	27.7	35.3	81.4	15.4	2.0	N	1009.6
Seletar	125.3	23.6	28.5	35.7	77.7	12.3	2.2	NNW	1009.7
Sembawang	140.7	22.5	27.5	34.2	85.7	10.8	1.9	N	1009.7
Automatic Meteorological Stations									
Tai Seng	242.0	23.2	28.7	34.4	75.5	33.0	1.6	ENE	1010.6
Jurong (West)	223.6	22.7	27.7	35.0	79.0	14.6	1.5	NNE	
Clementi	175.0	23.0	27.9	34.4	79.4	10.6	1.1	ENE	
Sentosa Island	214.2	22.6	28.3	33.3	76.3	11.5	1.5	E	1010.7
Boon Lay (East)	161.4	23.2	28.7	34.8	76.5	17.4	1.6	N	1010.5
Semakau Island	133.4	24.1	28.6	32.1	76.7	17.1	3.3	E	
Admiralty	261.4	22.4	27.8	35.8	85.5	13.3	1.8	N	
Pulau Ubin	115.8	23.4	27.5	34.8	89.3	10.3	0.9	E	1010.5
East Coast Parkway	—	23.7	28.1	33.2	79.2	13.8	2.1	N	1010.6
Marina Barrage	241.4	23.2	28.8	34.5	77.0	23.6	1.4	NNW	1010.4
Ang Mo Kio	180.0	22.9	28.1	34.9	74.9	10.7	1.3	NE	
Newton	297.4	23.3	28.1	34.1	80.2	14.0	1.5	E	—
Tuas South	96.4	24.2	28.4	34.2	76.3	11.9	1.7	NNE	1010.6
Pasir Panjang	95.2	22.7	28.7	33.7	78.7	20.6	2.5	NE	1010.3
Jurong Island	100.4	23.4	28.8	33.9	73.2	25.8	2.2	N	1010.3
Choa Chu Kang (South)	186.6	23.0	27.8	35.1	75.8	13.9	1.1	N	
Khatib	105.1	22.8	27.7	35.3	75.3	10.0	1.1	NNW	1010.8

- No Data
- Defective Data

8.2. May to Aug

May 2014

Station	Rain	Air Temperature			RH	Wind			Pressure
	Total	Min	Average	Max		Average	Max	Prevailing	
	mm	°C	°C	°C		%	m/s	Direction	
Manned Meteorological Stations									
Changi	125.8	23.0	28.6	33.8	80.2	11.8	1.9	SSW	1009.6
Paya Lebar	234.2	23.2	—	35.0	—	13.9	2.6	S	1009.2
Tengah	238.8	22.2	27.9	34.6	84.8	13.4	2.2	S	1009.2
Seletar	239.9	23.6	28.9	35.4	78.0	12.9	2.3	E	1009.2
Sembawang	299.6	22.8	27.7	34.1	87.0	—	1.8	S	1009.2
Automatic Meteorological Stations									
Tai Seng	144.4	23.7	29.2	34.4	76.6	11.6	1.6	ENE	1010.0
Jurong (West)	405.8	21.6	28.0	34.4	80.6	12.7	1.4	NW	—
Clementi	224.8	22.4	28.1	34.1	80.5	12.0	1.2	SSE	—
Sentosa Island	148.0	23.7	28.6	32.9	80.3	11.6	1.5	E	1010.2
Boon Lay (East)	395.2	22.5	28.9	34.6	78.4	15.7	1.7	N	1010.0
Semakau Island	132.4	24.2	29.1	33.1	77.1	20.4	3.3	E	—
Admiralty	301.0	22.7	28.2	34.9	86.1	12.9	1.7	S	—
Pulau Ubin	146.5	23.4	28.0	34.7	89.6	9.8	0.9	S	—
East Coast Parkway	179.2	23.3	28.7	31.6	78.5	15.0	2.7	NNW	1010.1
Marina Barrage	91.6	23.7	29.3	34.5	77.4	11.7	1.3	SW	1009.9
Ang Mo Kio	220.6	22.7	28.5	34.8	75.0	12.5	1.4	E	—
Newton	227.8	23.4	28.4	33.4	81.2	13.7	1.8	ESE	—
Tuas South	195.0	23.3	28.7	33.5	77.9	17.0	1.7	S	1010.1
Pasir Panjang	239.8	22.6	29.0	33.3	80.1	17.3	2.4	SSW	1009.8
Jurong Island	243.0	23.1	28.9	33.4	76.5	14.1	2.5	ESE	1009.8
Choa Chu Kang (South)	301.8	22.0	28.0	34.7	78.3	11.3	1.1	N	—
Khatib	252.8	22.8	27.8	34.7	79.8	10.4	1.1	E	1010.3

- No Data
- Defective Data

June 2014

Station	Rain	Air Temperature			RH	Wind			Pressure
	Total	Min	Average	Max	Average	Max	Average	Prevailing	Average
	mm	°C	°C	°C	%	m/s	m/s	Direction	hPa
Manned Meteorological Stations									
Changi	71.4	23.0	29.0	33.6	77.5	16.8	2.2	SSW	1008.7
Paya Lebar	168.6	22.7	—	34.7	—	14.9	3.1	S	1008.3
Tengah	190.5	22.6	28.4	35.0	81.6	13.4	2.4	S	1008.2
Seletar	149.8	23.5	29.6	36.2	74.0	16.5	2.7	S	1008.2
Sembawang	153.9	22.6	28.4	34.3	83.6	11.8	1.9	S	1008.3
Automatic Meteorological Stations									
Tai Seng	117.0	22.8	29.6	34.5	74.1	14.1	2.0	S	1009.1
Jurong (West)	—	22.5	29.0	34.4	75.3	14.7	1.5	SE	—
Clementi	177.0	22.5	28.5	33.4	78.9	11.1	1.7	SSE	—
Sentosa Island	119.4	21.9	28.8	33.5	79.2	14.4	1.6	SE	1009.3
Boon Lay (East)	184.0	20.4	29.5	34.4	75.3	19.8	2.0	S	1009.1
Semakau Island	189.4	23.9	29.2	32.4	77.9	26.2	3.9	S	—
Admiralty	196.0	22.6	28.9	34.5	81.8	16.8	1.7	S	—
Pulau Ubin	102.8	22.9	28.4	34.8	88.0	15.8	0.9	S	1009.1
East Coast Parkway	128.6	23.6	29.1	31.9	76.4	20.1	3.6	S	1009.2
Marina Barrage	71.4	23.6	29.6	34.7	76.6	12.9	1.3	SW	1009.0
Ang Mo Kio	143.8	22.3	29.2	35.0	71.3	13.9	1.6	E	—
Newton	125.0	23.0	28.8	33.6	79.2	19.6	2.2	SSW	—
Tuas South	185.8	23.6	29.3	33.5	75.9	24.6	1.8	S	1009.2
Pasir Panjang	144.6	22.8	29.5	33.3	78.7	28.8	2.7	SSW	1008.9
Jurong Island	173.2	23.1	29.2	34.2	76.8	15.9	2.6	ESE	1008.9
Choa Chu Kang (South)	236.8	22.5	28.8	34.6	72.9	16.3	1.3	SSE	—
Khatib	167.6	22.7	28.3	34.5	75.9	12.5	1.3	S	1009.3

- No Data
- Defective Data

July 2014

Station	Rain	Air Temperature			RH	Wind			Pressure
	Total	Min	Average	Max		Max	Average	Prevailing	
	mm	°C	°C	°C		m/s	m/s	Direction	Average hPa
Manned Meteorological Stations									
Changi	148.6	21.1	28.7	33.2	78.3	19.6	2.5	S	1009.9
Paya Lebar	141.4	22.1	—	34.4	—	18.0	3.1	S	1009.5
Tengah	267.0	21.6	28.0	34.4	81.3	15.4	2.5	SSE	1009.3
Seletar	167.1	22.5	29.2	35.5	75.2	14.4	2.9	SSE	1009.4
Sembawang	225.2	21.3	28.2	33.7	83.7	13.9	2.1	S	1009.4
Automatic Meteorological Stations									
Tai Seng	146.2	22.8	29.3	33.8	75.4	13.6	2.0	S	1010.3
Jurong (West)	—	—	—	—	—	—	—	—	—
Clementi	242.8	22.2	28.2	32.5	80.0	12.5	1.8	SSE	
Sentosa Island	191.4	22.7	28.6	33.7	78.7	11.9	1.7	SE	1010.5
Boon Lay (East)	259.2	22.6	29.1	33.6	76.6	16.7	2.0	S	1010.2
Semakau Island	119.2	24.2	29.0	31.8	78.1	21.6	4.2	SSE	
Admiralty	237.8	22.0	28.6	33.9	83.6	17.4	1.8	S	
Pulau Ubin	134.0	21.7	28.0	34.6	89.1	15.7	1.0	S	1010.3
East Coast Parkway	184.2	22.3	28.8	31.5	77.5	18.5	3.8	SE	1010.4
Marina Barrage	204.6	22.9	29.3	34.6	77.1	27.8	1.4	SW	1010.2
Ang Mo Kio	146.4	21.8	28.7	34.1	73.0	15.7	1.6	E	
Newton	221.8	22.8	28.4	33.1	80.3	16.4	2.3	SE	—
Tuas South	140.4	22.3	29.1	33.6	75.5	19.2	1.7	S	1010.3
Pasir Panjang	120.4	23.2	29.2	33.3	79.1	18.2	2.8	ESE	1010.0
Jurong Island	106.6	22.5	28.9	33.0	77.1	18.4	3.0	ESE	1010.0
Choa Chu Kang (South)	249.6	22.0	28.5	33.6	74.6	13.1	1.3	SSE	
Khatib	203.6	21.7	28.0	34.5	76.5	11.0	1.3	S	1010.5

- No Data
- Defective Data

August 2014

Station	Rain	Air Temperature			RH	Wind			Pressure
	Total	Min	Average	Max		Max	Average	Prevailing	
	mm	°C	°C	°C		m/s	m/s	Direction	
Manned Meteorological Stations									
Changi	241.0	22.0	27.7	31.9	79.7	14.7	2.4	S	1010.7
Paya Lebar	169.5	23.0	—	33.1	—	15.4	2.7	SSW	1010.3
Tengah	299.3	22.5	27.0	33.0	84.7	14.9	2.4	SSE	1010.2
Seletar	177.8	23.2	28.0	33.6	78.0	14.4	2.7	S	1010.2
Sembawang	220.1	22.5	27.1	32.6	86.3	12.9	2.3	S	1010.3
Automatic Meteorological Stations									
Tai Seng	169.2	22.9	28.3	33.2	76.1	16.9	1.8	S	1011.1
Jurong (West)	—	—	—	—	—	—	—	—	—
Clementi	258.0	21.8	27.1	32.2	81.3	11.4	1.5	SSE	—
Sentosa Island	162.0	21.5	27.6	32.4	78.3	14.0	1.7	SE	1011.3
Boon Lay (East)	257.6	22.4	28.0	32.9	78.8	18.0	1.8	S	1011.0
Semakau Island	152.5	22.6	28.0	31.9	78.5	22.8	4.0	S	—
Admiralty	—	23.5	27.7	32.3	85.0	13.6	1.8	S	—
Pulau Ubin	177.2	23.1	27.0	33.5	90.9	27.6	0.9	S	1011.1
East Coast Parkway	121.4	23.1	27.8	30.5	78.0	15.4	3.6	S	1011.2
Marina Barrage	155.8	22.9	28.2	33.7	78.4	14.1	1.4	SW	1011.0
Ang Mo Kio	180.6	22.7	27.6	32.7	75.2	12.9	1.6	E	—
Newton	245.6	22.0	27.4	31.7	82.0	16.0	2.3	ESE	—
Tuas South	130.0	23.3	28.1	32.7	76.9	14.8	1.8	SSW	1011.1
Pasir Panjang	244.0	22.2	28.3	31.9	79.6	17.2	2.7	ESE	1010.9
Jurong Island	—	22.0	27.9	32.0	78.2	16.3	3.0	ESE	1010.9
Choa Chu Kang (South)	266.4	22.4	27.2	32.6	79.5	12.7	1.2	SSE	—
Khatib	212.4	22.0	27.0	32.7	79.7	11.3	1.2	S	1011.3

- No Data
- Defective Data

8.3. Sep to Dec

September 2014

Station	Rain Total mm	Air Temperature			RH Average %	Wind			Pressure Average hPa
		Min °C	Average °C	Max °C		Max m/s	Average m/s	Prevailing Direction	
		Manned Meteorological Stations							
Changi	83.6	22.4	28.5	33.2	75.5	17.2	2.8	S	1010.7
Paya Lebar	137.3	22.5	28.5	34.8		11.8	2.9	SSW	1010.4
Tengah	216.1	21.7	27.8	34.1	80.3	12.9	2.6	SSE	1010.3
Seletar	93.0	23.3	28.9	34.8	72.8	13.4	2.9	ESE	1010.3
Sembawang	110.1	20.8	28.0	33.8	80.4	12.9	2.6	S	1010.3
Automatic Meteorological Stations									
Tai Seng	127.6	23.0	29.1	34.1	72.1	17.6	1.9	S	1011.2
Jurong (West)	—	—	—	—	—	—	—	—	—
Clementi	107.6	22.1	28.1	33.6	76.6	13.1	1.6	SSE	
Sentosa Island	147.8	22.5	28.3	33.0	74.4	13.4	1.8	E	1011.4
Boon Lay (East)	106.0	22.8	28.9	33.8	72.8	14.3	1.9	S	1011.1
Semakau Island	93.2	23.1	28.8	32.7	75.1	18.3	3.9	E	
Admiralty	—	—	—	—	—	—	—	—	—
Pulau Ubin	146.0	22.7	27.8	33.6	86.5	12.0	1.1	SE	1011.2
East Coast Parkway	96.4	23.0	28.4	32.3	76.4	18.1	3.6	SE	1011.3
Marina Barrage	203.2	22.4	29.0	34.7	75.4	12.1	1.5	SSE	1011.1
Ang Mo Kio	105.2	22.5	28.5	34.2	69.7	12.3	1.9	E	
Newton	96.2	22.1	28.3	33.3	75.7	14.7	2.5	ESE	—
Tuas South	80.8	22.9	28.8	33.2	73.5	19.3	1.7	S	1011.2
Pasir Panjang	59.0	22.8	29.0	32.7	76.1	18.8	2.9	ESE	1010.9
Jurong Island	—	23.1	28.8	32.9	73.7	25.0	3.3	ESE	1010.9
Choa Chu Kang (South)	156.8	22.2	28.2	33.9	73.7	11.0	1.3	SSE	
Khatib	121.6	22.3	28.0	34.2	73.1	10.2	1.4	ESE	1011.4

- No Data
- Defective Data

October 2014

Station	Rain	Air Temperature			RH	Wind			Pressure
	Total	Min	Average	Max		Max	Average	Precipitation	
	mm	°C	°C	°C		m/s	m/s	Direction	Average hPa
Manned Meteorological Stations									
Changi	120.0	24.0	28.4	34.1	77.0	11.7	2.3	SE	1010.4
Paya Lebar	141.2	23.7	27.8	34.8		13.9	2.3	NE	1010.1
Tengah	131.4	22.9	27.8	35.3	81.5	15.9	2.2	N	1010.0
Seletar	232.0	23.5	28.8	35.4	74.1	12.9	2.5	E	1010.0
Sembawang	144.9	22.3	27.9	34.3	82.4	11.3	2.2	N	1010.1
Automatic Meteorological Stations									
Tai Seng	161.6	24.2	28.9	34.5	73.4	10.3	1.6	ENE	1010.9
Jurong (West)	—	—	—	—	—	—	—	—	—
Clementi	149.2	22.8	28.0	33.5	77.4	10.7	1.2	NE	
Sentosa Island	50.6	22.7	28.6	33.7	71.9	9.5	1.6	E	1011.0
Boon Lay (East)	183.8	23.0	28.9	33.9	73.7	23.8	1.7	ESE	1010.8
Semakau Island	67.6	23.4	29.0	32.9	73.5	19.4	3.3	E	
Admiralty	—	24.0	27.9	34.3	85.1	13.6	1.8	N	
Pulau Ubin	115.2	23.7	27.8	34.0	87.1	14.5	1.1	NNE	1010.9
East Coast Parkway	46.4	23.4	28.4	31.4	76.6	11.3	2.6	ESE	1011.0
Marina Barrage	97.2	23.4	29.2	34.5	74.2	20.8	1.4	NNW	1010.8
Ang Mo Kio	164.6	22.2	28.3	34.4	71.3	11.9	1.5	ENE	
Newton	141.8	23.1	28.3	34.4	76.2	12.5	1.9	ESE	—
Tuas South	107.0	22.9	28.7	33.6	74.3	13.1	1.5	S	1010.9
Pasir Panjang	66.2	22.8	28.9	33.3	76.9	16.8	2.4	ESE	1010.6
Jurong Island	175.0	22.3	28.9	33.0	73.7	18.2	2.7	ESE	1010.6
Choa Chu Kang (South)	91.2	23.8	28.1	34.5	74.7	11.4	1.1	N	
Khatib	126.8	23.3	28.0	34.6	73.8	11.5	1.2	NW	1011.1

- No Data
- Defective Data

November 2014

Station	Rain	Air Temperature			RH	Wind			Pressure
	Total	Min	Average	Max		Max	Average	Prevailing	
	mm	°C	°C	°C		m/s	m/s	Direction	Average hPa
Manned Meteorological Stations									
Changi	250.8	22.2	27.5	33.4	82.4	14.1	1.8	N	1010.0
Paya Lebar	312.7	22.6	27.0	35.0		14.9	1.7	N	1009.6
Tengah	204.6	22.2	27.1	34.5	85.6	13.4	2.2	N	1009.5
Seletar	435.6	22.9	27.7	34.7	81.5	13.9	2.2	N	1009.6
Sembawang	489.6	22.2	26.9	33.9	87.2	17.0	1.9	N	1009.7
Automatic Meteorological Stations									
Tai Seng	400.8	23.3	27.9	34.4	80.3	19.1	1.5	ENE	1010.5
Jurong (West)	—	—	—	—	—	—	—	—	—
Clementi	375.0	23.0	27.0	33.4	83.1	10.6	1.1	NW	
Sentosa Island	313.2	23.3	27.6	33.0	79.2	10.0	1.4	N	1010.6
Boon Lay (East)	266.8	23.4	27.8	34.3	81.2	15.0	1.7	N	1010.4
Semakau Island	251.4	23.4	28.1	32.8	79.4	19.0	3.5	N	
Admiralty	235.9	23.0	27.2	34.5	89.1	22.2	1.9	N	
Pulau Ubin	263.2	22.7	27.0	34.4	91.6	14.9	1.3	NW	1010.4
East Coast Parkway	189.6	23.1	27.6	32.1	80.1	14.9	2.0	N	1010.5
Marina Barrage	282.0	23.8	28.1	34.5	79.8	26.5	1.4	NNW	1010.3
Ang Mo Kio	418.4	22.5	27.2	34.0	80.0	11.9	1.2	W	
Newton	303.8	23.1	27.3	33.4	84.9	15.3	1.4	NW	—
Tuas South	223.6	23.3	27.7	33.8	79.0	12.3	1.7	NNE	1010.5
Pasir Panjang	253.0	23.3	27.9	32.8	82.7	18.0	2.3	NE	1010.2
Jurong Island	261.0	22.6	27.9	33.2	79.8	25.5	2.3	N	1010.2
Choa Chu Kang (South)	189.6	23.0	27.1	34.0	82.6	11.3	1.1	N	
Khatib	426.8	22.4	26.8	34.1	82.1	17.0	1.1	NNW	1010.7

- No Data
- Defective Data

December 2014

Station	Rain	Air Temperature			RH	Wind			Pressure
		Total mm	Min °C	Average °C		Max °C	Average %	Max m/s	
									Average hPa
Manned Meteorological Stations									
Changi	245.6	22.4	27.1	33.6	82.6	13.8	2.0	N	1010.1
Paya Lebar	280.4	23.1	26.3	34.5		14.9	3.2	N	1009.7
Tengah	442.3	22.5	26.3	34.5	86.5	14.9	2.5	N	1009.7
Seletar	198.6	22.9	27.4	34.5	80.7	14.4	2.6	N	1009.7
Sembawang	349.9	21.9	26.6	33.7	87.0	11.3	2.4	N	1009.7
Automatic Meteorological Stations									
Tai Seng	321.6	23.6	27.4	33.7	81.0	27.5	2.1	ENE	1010.5
Jurong (West)	—	—	—	—	—	—	—	—	—
Clementi	402.6	22.3	26.6	33.0	84.0	12.8	1.3	NW	
Sentosa Island	587.6	22.8	27.1	33.1	81.2	13.2	1.5	N	1010.6
Boon Lay (East)	457.0	22.5	27.1	33.3	83.6	13.7	1.9	N	1010.5
Semakau Island	395.2	23.6	27.0	31.4	82.2	19.3	4.1	N	
Admiralty	225.2	23.4	26.7	34.5	90.2	14.8	2.4	N	
Pulau Ubin	282.8	22.9	26.6	33.8	92.1	12.3	1.9	NW	1010.5
East Coast Parkway	269.0	22.1	27.1	32.2	79.7	20.2	2.1	N	1010.6
Marina Barrage	455.0	23.1	27.4	34.1	81.1	17.2	1.8	NNW	1010.3
Ang Mo Kio	250.0	22.4	26.8	33.7	81.0	10.5	1.5	W	
Newton	382.6	23.0	26.8	32.9	86.1	12.6	1.6	N	—
Tuas South	284.6	22.8	27.1	32.9	80.4	16.2	1.8	NNE	1010.6
Pasir Panjang	355.2	23.4	27.3	32.8	84.3	18.6	2.8	NE	1010.2
Jurong Island	303.8	22.6	27.2	33.7	82.7	—	—	—	1010.2
Choa Chu Kang (South)	336.8	22.4	26.6	33.9	85.6	15.6	1.3	N	
Khatib	330.6	22.3	26.7	33.8	80.3	10.5	1.3	NNW	1010.8

- No Data
- Defective Data

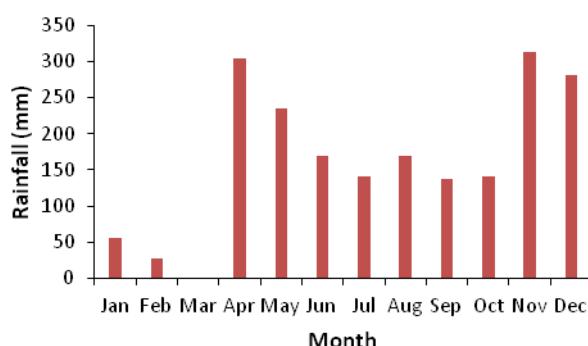
9. Weather Statistics for Manned Meteorological Station

9.1. Monthly Observation

S06 Paya Lebar 2014

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Min Temperature (°C)	22.1	22.3	23.9	23.5	23.2	22.7	22.1	23.0	22.5	23.7	22.6	23.1
Average Daily Min Temperature (°C)	24.0	24.2	25.1	25.4	26.0	26.0	25.9	25.3	26.1	26.0	25.2	25.0
Average Temperature (°C)												
Average Daily Max Temperature (°C)	30.2	32.4	33.0	33.0	32.8	32.7	32.1	31.1	32.7	32.8	32.4	31.2
Max Temperature	33.0	34.0	35.0	35.2	35.0	34.7	34.4	33.1	34.8	34.8	35.0	34.5
Average Dew Point Temperature (°C)												
Min Relative Humidity (%)												
Average Relative Humidity (%)												
Average Wind Speed (m/s)	4.4	3.9	3.6	1.7	2.6	3.1	3.1	2.7	2.9	2.3	1.7	3.2
Prevailing Wind Direction	NE	NE	NE	ENE	S	S	S	SSW	SSW	NE	N	N
Maximum Gust (m/s)	13.9	14.9	11.8	12.3	13.9	14.9	18.0	15.4	11.8	13.9	14.9	14.9
Total Rainfall (mm)	55.9	27.3	—	304.9	234.2	168.6	141.4	169.5	137.3	141.2	312.7	280.4
Highest Daily Rainfall (mm)	31.2	25.8	42.3	62.9	45.5	61.7	29.4	32.5	63.5	34.4	66.8	76.8

Rainfall Paya Lebar 2014

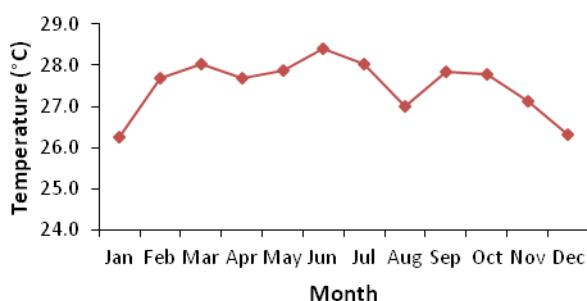


- No Data
- Defective Data

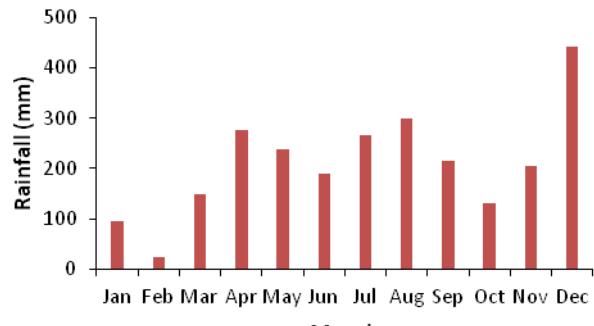
S23 Tengah 2014

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Min Temperature (°C)	20.1	20.1	22.0	22.3	22.2	22.6	21.6	22.5	21.7	22.9	22.2	22.5
Average Daily Min Temperature (°C)	22.4	22.7	23.3	23.9	24.2	24.5	24.1	23.6	23.7	24.1	23.7	23.4
Average Temperature (°C)	26.2	27.7	28.0	27.7	27.9	28.4	28.0	27.0	27.8	27.8	27.1	26.3
Average Daily Max Temperature (°C)	30.6	33.8	34.0	33.4	32.8	32.9	32.4	31.3	32.7	33.1	32.5	31.3
Max Temperature	32.6	35.3	36.3	35.3	34.6	35.0	34.4	33.0	34.1	35.3	34.5	34.5
Average Dew Point Temperature (°C)	22.3	22.4	23.3	24.2	24.9	24.7	24.3	24.1	23.9	24.0	24.3	23.7
Min Relative Humidity (%)												
Average Relative Humidity (%)	79.9	74.7	77.4	81.4	84.8	81.6	81.3	84.7	80.3	81.5	85.6	86.5
Average Wind Speed (m/s)	4.1	4.0	3.2	2.0	2.2	2.4	2.5	2.4	2.6	2.2	2.2	2.5
Prevailing Wind Direction	NE	NE	NE	N	S	S	SSE	SSE	SSE	N	N	N
Maximum Gust (m/s)	12.9	14.4	12.3	15.4	13.4	13.4	15.4	14.9	12.9	15.9	13.4	14.9
Total Rainfall (mm)	96.3	23.4	150.0	276.9	238.8	190.5	267.0	299.3	216.1	131.4	204.6	442.3
Highest Daily Rainfall (mm)	77.4	19.4	64.5	49.2	37.8	39.0	65.6	68.8	91.6	41.0	56.2	76.8

Average Temperature Tengah 2014



Rainfall Tengah 2014

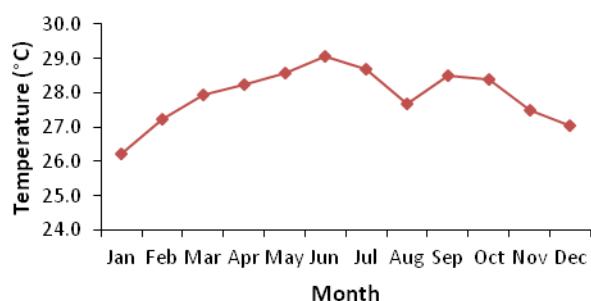


- No Data
- Defective Data

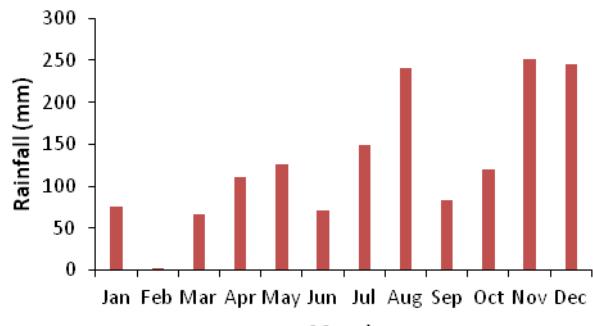
S24 Changi 2014

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Min Temperature (°C)	22.4	22.4	23.6	22.8	23.0	23.0	21.1	22.0	22.4	24.0	22.2	22.4
Average Daily Min Temperature (°C)	24.0	24.5	25.1	25.5	25.8	26.3	25.8	25.2	25.7	25.7	24.8	24.7
Average Temperature (°C)	26.2	27.2	27.9	28.2	28.6	29.0	28.7	27.7	28.5	28.4	27.5	27.1
Average Daily Max Temperature (°C)	29.6	31.9	32.8	32.4	32.1	32.1	31.6	30.4	31.8	32.1	31.6	30.6
Max Temperature	31.8	33.8	34.4	34.5	33.8	33.6	33.2	31.9	33.2	34.1	33.4	33.6
Average Dew Point Temperature (°C)	22.3	22.3	23.3	24.5	24.8	24.8	24.6	23.9	23.9	24.0	24.2	23.9
Min Relative Humidity (%)	48.8	43.1	37.8	40.9	47.6	44.8	52.8	53.4	37.2	39.6	52.9	51.3
Average Relative Humidity (%)	79.5	75.7	77.0	80.9	81.0	78.5	79.3	80.6	76.8	78.0	83.2	83.4
Average Wind Speed (m/s)	3.1	3.8	3.2	2.0	1.9	2.2	2.5	2.4	2.8	2.3	1.8	2.0
Prevailing Wind Direction	NNE	NE	NE	N	SSW	SSW	S	S	SE	SE	NE	NNW
Maximum Gust (m/s)	11.9	11.9	11.7	12.0	11.8	16.8	19.6	14.7	17.2	11.7	14.1	13.8
Total Rainfall (mm)	75.4	0.2	66.0	110.0	125.8	71.4	148.6	241.0	83.6	120.0	250.8	245.6
Highest Daily Rainfall (mm)	31.2	0.2	52.6	28.8	22.2	18.8	29.0	44.2	31.6	32.8	64.4	48.2

Average Temperature Changi 2014



Rainfall Changi 2014



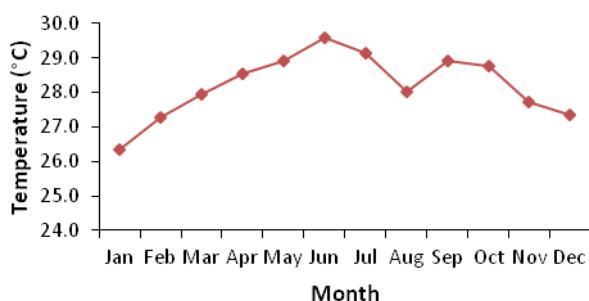
■ No Data

— Defective Data

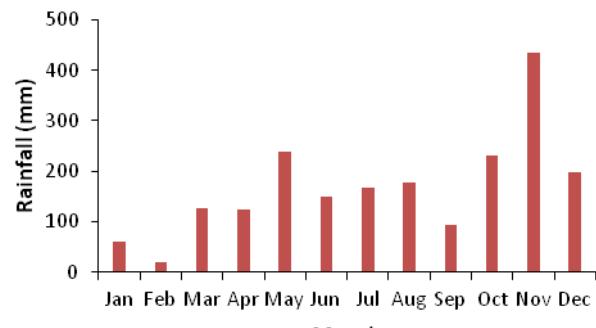
S25 Seletar 2014

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Min Temperature (°C)	22.7	22.3	24.1	23.6	23.6	23.5	22.5	23.2	23.3	23.5	22.9	22.9
Average Daily Min Temperature (°C)	24.1	24.4	25.0	25.6	25.8	26.2	26.1	25.3	25.8	25.8	24.9	25.0
Average Temperature (°C)	26.3	27.3	27.9	28.5	28.9	29.6	29.2	28.0	28.9	28.8	27.7	27.4
Average Daily Max Temperature (°C)	29.9	32.1	32.9	33.7	33.5	33.6	33.2	31.9	33.2	33.3	32.6	31.3
Max Temperature	32.3	34.5	34.7	35.7	35.4	36.2	35.5	33.6	34.8	35.4	34.7	34.5
Average Dew Point Temperature (°C)	23.4	21.7	22.6	24.0	24.5	24.2	24.0	23.6	23.2	23.4	24.0	23.6
Min Relative Humidity (%)												
Average Relative Humidity (%)	85.0	72.7	74.5	77.7	78.0	74.0	75.2	78.0	72.8	74.1	81.5	80.7
Average Wind Speed (m/s)	4.6	5.0	4.0	2.2	2.3	2.7	2.9	2.7	2.9	2.5	2.2	2.6
Prevailing Wind Direction	N	NNE	N	NNW	E	S	SSE	S	ESE	E	N	N
Maximum Gust (m/s)	14.4	14.4	13.9	12.3	12.9	16.5	14.4	14.4	13.4	12.9	13.9	14.4
Total Rainfall (mm)	60.4	20.8	125.7	125.3	239.9	149.8	167.1	177.8	93.0	232.0	435.6	198.6
Highest Daily Rainfall (mm)	39.0	20.0	67.3	24.0	53.4	35.0	39.9	46.8	20.6	65.3	89.1	54.7

Average Temperature Seletar
2014



Rainfall Seletar 2014

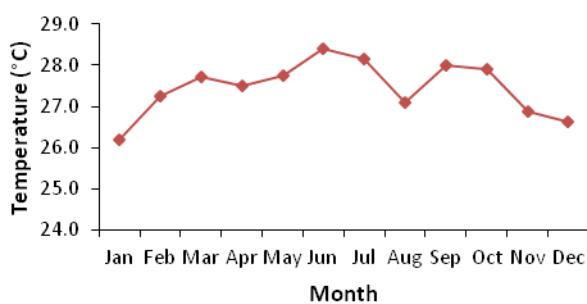


- No Data
- Defective Data

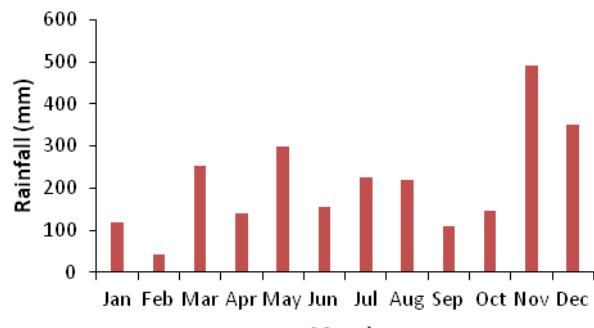
S80 Sembawang 2014

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Min Temperature (°C)	21.0	20.7	21.7	22.5	22.8	22.6	21.3	22.5	20.8	22.3	22.2	21.9
Average Daily Min Temperature (°C)	23.0	23.3	23.7	23.9	24.2	24.5	24.3	23.7	23.8	23.9	23.4	23.5
Average Temperature (°C)	26.2	27.2	27.7	27.5	27.7	28.4	28.2	27.1	28.0	27.9	26.9	26.6
Average Daily Max Temperature (°C)	29.8	32.3	33.0	32.5	32.3	32.3	32.0	30.9	32.4	32.7	32.2	31.0
Max Temperature	31.9	33.7	34.9	34.2	34.1	34.3	33.7	32.6	33.8	34.3	33.9	33.7
Average Dew Point Temperature (°C)	22.2	22.4	23.4	24.7	25.2	25.1	24.9	24.5	24.1	24.4	24.4	24.1
Min Relative Humidity (%)												
Average Relative Humidity (%)	79.5	76.0	79.2	85.7	87.0	83.6	83.7	86.3	80.4	82.4	87.2	87.0
Average Wind Speed (m/s)	3.4	3.4	3.1	1.9	1.8	1.9	2.1	2.3	2.6	2.2	1.9	2.4
Prevailing Wind Direction	N	N	NE	N	S	S	S	S	S	N	N	N
Maximum Gust (m/s)	—	—	—	10.8	—	11.8	13.9	12.9	12.9	11.3	17.0	11.3
Total Rainfall (mm)	119.0	43.7	251.7	140.7	299.6	153.9	225.2	220.1	110.1	144.9	489.6	349.9
Highest Daily Rainfall (mm)	80.8	43.7	51.0	25.0	49.8	33.1	42.2	55.0	44.7	81.5	119.5	86.8

**Average Temperature
Sembawang 2014**



Rainfall Sembawang 2014

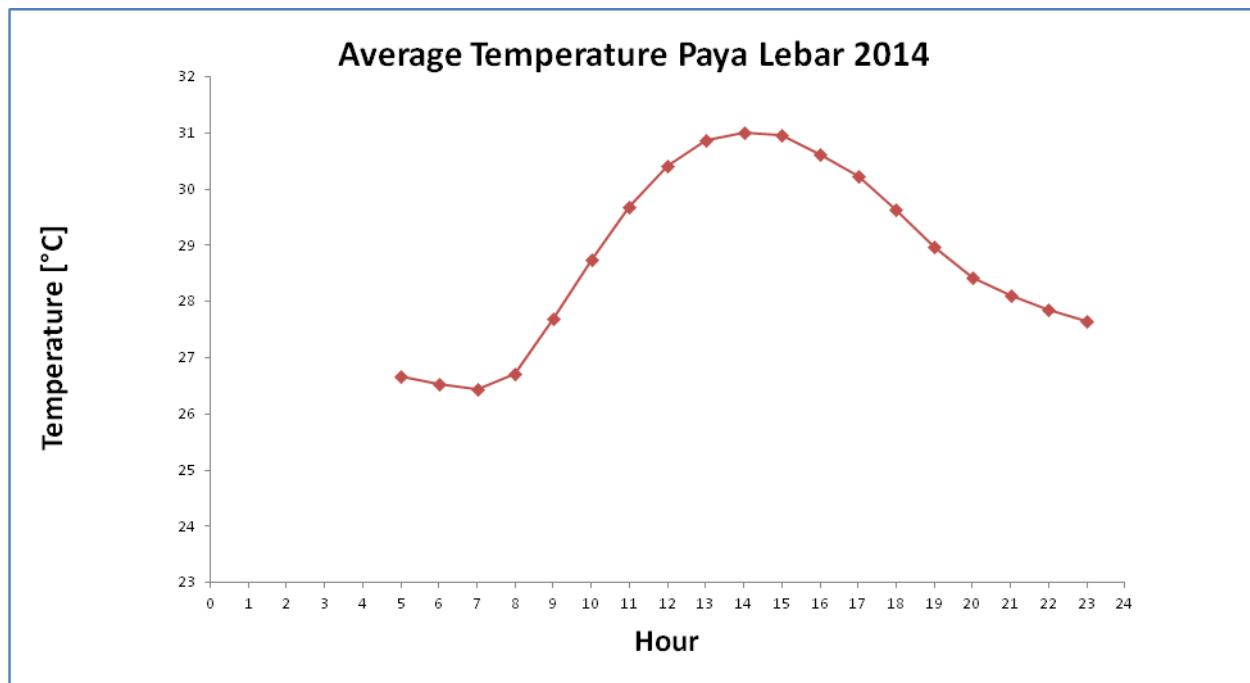


- No Data
- Defective Data

9.2. Hourly Observation

S06 Paya Lebar 2014

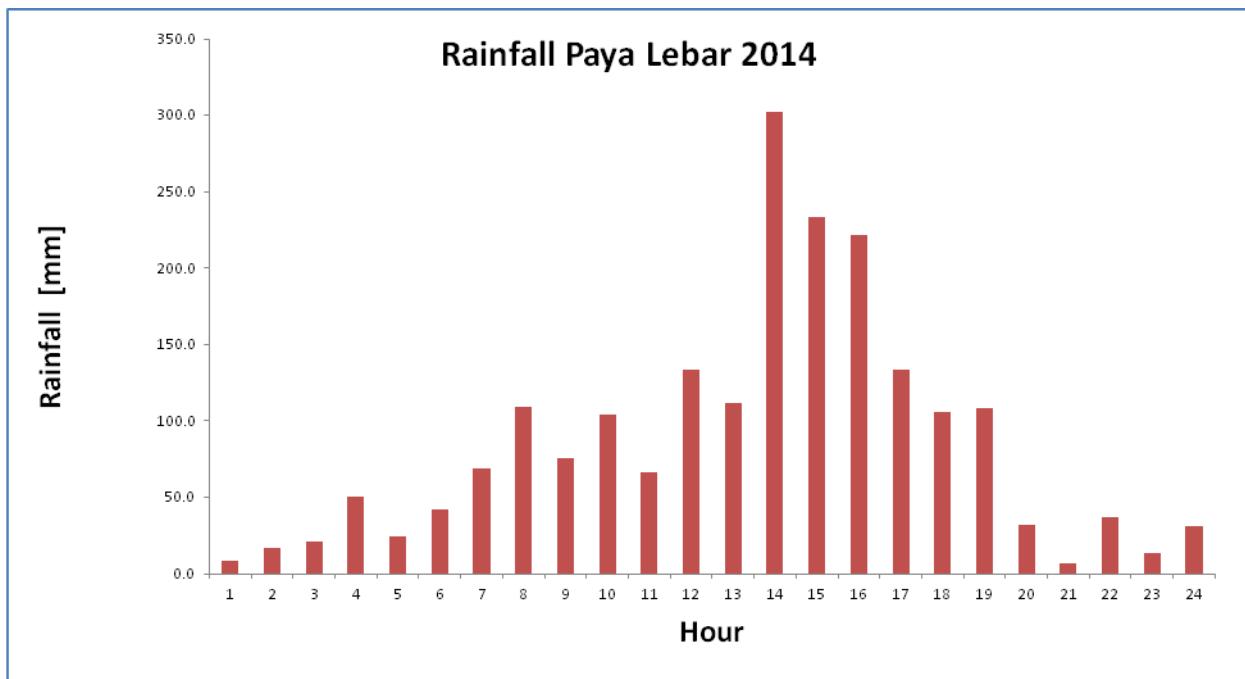
Hours	1	2	3	4	5	6	7	8	9	10	11	12
Min Dry Bulb Temperature (°C)					23.0	22.7	22.3	22.5	23.5	23.9	24.2	23.5
Max Dry Bulb Temperature (°C)					29.6	29.6	29.4	29.4	30.4	31.9	32.8	33.8
Average Dry Bulb Temperature (°C)					26.7	26.5	26.4	26.7	27.7	28.7	29.7	30.4
Average Dew Point Temperature (°C)					23.9	23.9	23.9	24.0	24.0	23.9	23.6	23.4
Min Relative Humidity (%)												
Average Relative Humidity (%)					85.3	85.9	86.3	85.2	80.6	75.3	70.6	67.1
Average Wind Speed (m/s)					1.8	1.8	1.7	1.9	2.6	3.3	3.5	3.7
Max Gust (m/s)					13.9	12.3	10.8	18.0	11.3	13.9	14.9	14.4
Rainfall (mm)	8.4	16.5	21.2	50.7	24.1	42.2	68.9	108.8	75.7	103.9	66.3	133.3



- No Data
- Defective Data

S06 Paya Lebar 2014

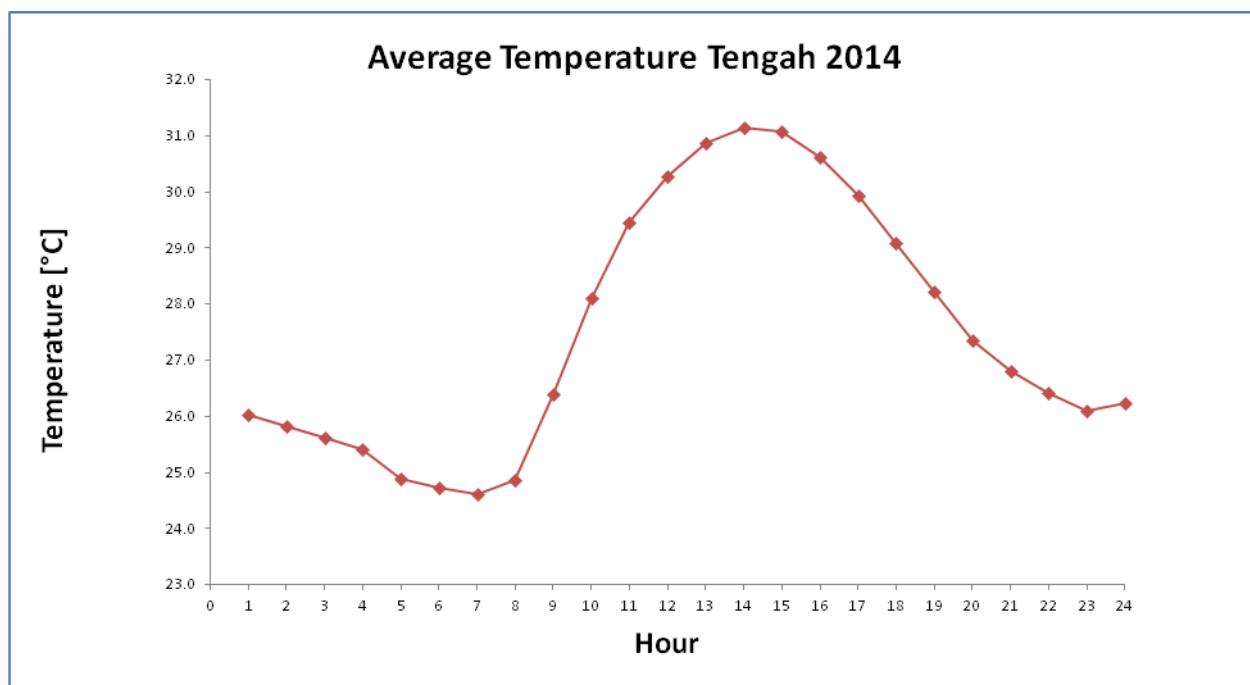
Hours	13	14	15	16	17	18	19	20	21	22	23	24
Min Dry Bulb Temperature (°C)	24.2	23.6	23.6	24.0	24.0	24.5	24.7	24.0	24.3	24.4	24.4	
Max Dry Bulb Temperature (°C)	34.3	34.8	35.0	34.7	34.7	34.2	33.2	32.0	30.9	30.8	30.7	
Average Dry Bulb Temperature (°C)	30.9	31.0	31.0	30.6	30.2	29.6	29.0	28.4	28.1	27.9	27.7	
Average Dew Point Temperature (°C)	23.3	23.3	23.2	23.3	23.3	23.4	23.5	23.7	23.9	24.0	24.1	
Min Relative Humidity (%)												
Average Relative Humidity (%)	65.1	64.6	64.6	66.0	67.7	70.2	73.1	75.9	78.1	79.8	81.1	
Average Wind Speed (m/s)	3.8	3.9	4.0	4.0	3.8	3.4	3.1	2.7	2.5	2.3	2.2	
Max Gust (m/s)	17.0	15.4	13.9	14.9	13.4	13.9	11.8	10.8	9.8	10.8	10.3	
Rainfall (mm)	111.9	302.4	233.4	221.8	133.3	105.9	108.0	32.1	6.4	36.6	13.6	31.1



- No Data
- Defective Data

S23 Tengah 2014

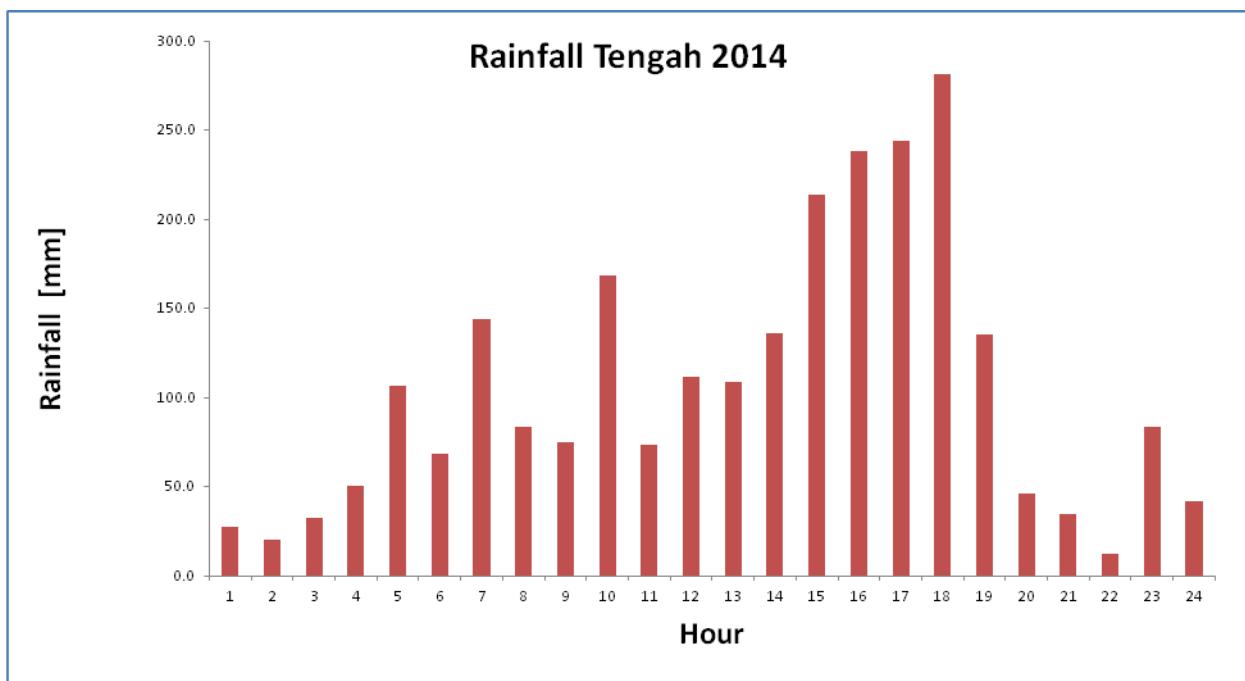
Hours	1	2	3	4	5	6	7	8	9	10	11	12
Min Dry Bulb Temperature (°C)	23.3	22.7	22.5	22.1	21.0	21.0	20.7	20.8	22.2	23.0	23.2	23.5
Max Dry Bulb Temperature (°C)	29.9	28.5	28.4	29.3	27.9	27.9	27.4	27.8	29.5	31.3	33.0	33.8
Average Dry Bulb Temperature (°C)	26.0	25.8	25.6	25.4	24.9	24.7	24.6	24.9	26.4	28.1	29.5	30.3
Average Dew Point Temperature (°C)	24.2	24.2	24.1	24.0	23.6	23.5	23.5	23.8	24.3	24.3	24.1	24.0
Min Relative Humidity (%)												
Average Relative Humidity (%)	89.7	90.5	91.1	91.8	92.5	93.0	93.4	93.9	88.6	80.2	73.8	69.8
Average Wind Speed (m/s)					1.7	1.5	1.6	1.7	2.1	2.8	3.1	3.3
Max Gust (m/s)					14.4	14.9	15.4	12.3	10.8	13.4	12.3	12.3
Rainfall (mm)	27.4	20.3	32.6	50.1	106.8	68.5	143.9	83.5	75.1	168.4	73.4	111.4



- No Data
- Defective Data

S23 Tengah 2014

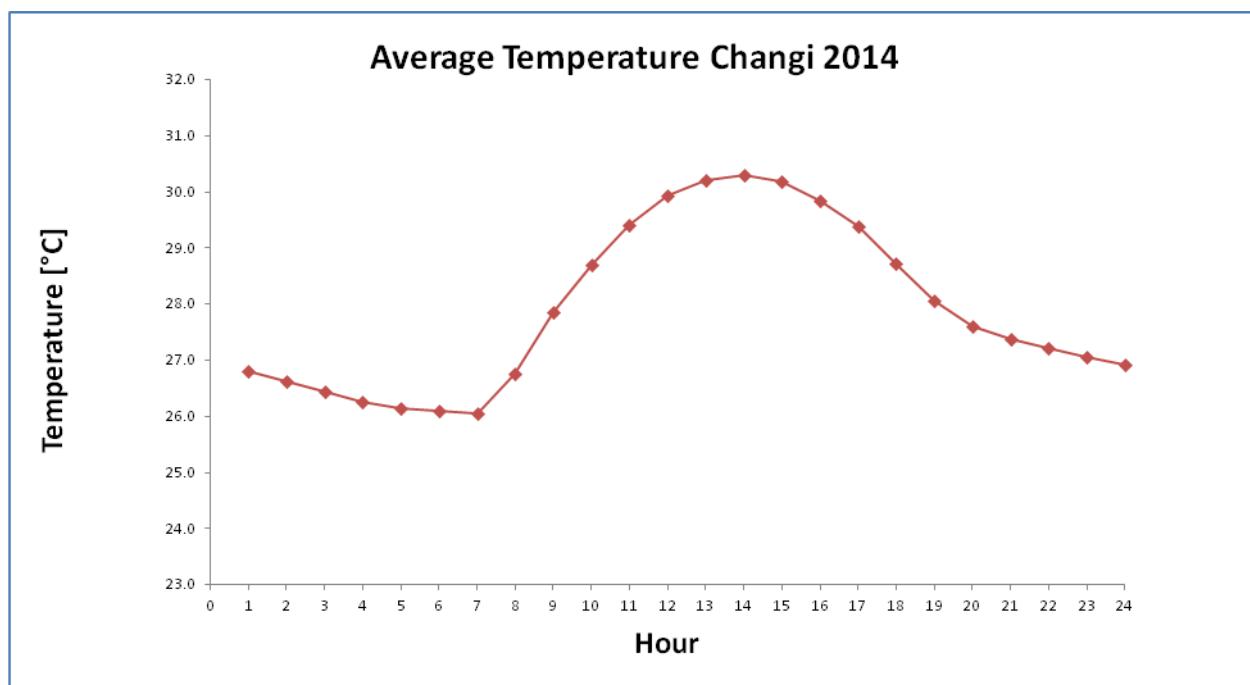
Hours	13	14	15	16	17	18	19	20	21	22	23	24
Min Dry Bulb Temperature (°C)	23.6	23.6	22.2	23.3	23.5	23.4	22.1	22.1	22.3	23.1	22.2	23.4
Max Dry Bulb Temperature (°C)	34.5	34.9	35.7	36.3	35.1	33.7	32.0	30.5	29.9	29.3	29.0	29.0
Average Dry Bulb Temperature (°C)	30.9	31.1	31.1	30.6	29.9	29.1	28.2	27.4	26.8	26.4	26.1	26.2
Average Dew Point Temperature (°C)	23.7	23.6	23.6	23.7	23.7	23.7	23.7	23.7	23.8	23.8	23.9	24.2
Min Relative Humidity (%)												
Average Relative Humidity (%)	66.9	65.6	66.1	68.0	70.6	74.0	77.5	81.3	83.9	86.0	87.7	88.7
Average Wind Speed (m/s)	3.4	3.5	3.5	3.5	3.3	2.8	2.5	2.2	2.1	2.0	1.9	
Max Gust (m/s)	12.9	13.4	14.4	15.9	13.4	15.4	12.9	11.3	11.3	13.4	9.8	
Rainfall (mm)	108.8	136.0	214.0	238.4	243.7	281.3	135.1	46.3	34.7	12.1	83.4	41.4



- No Data
- Defective Data

S24 Changi 2014

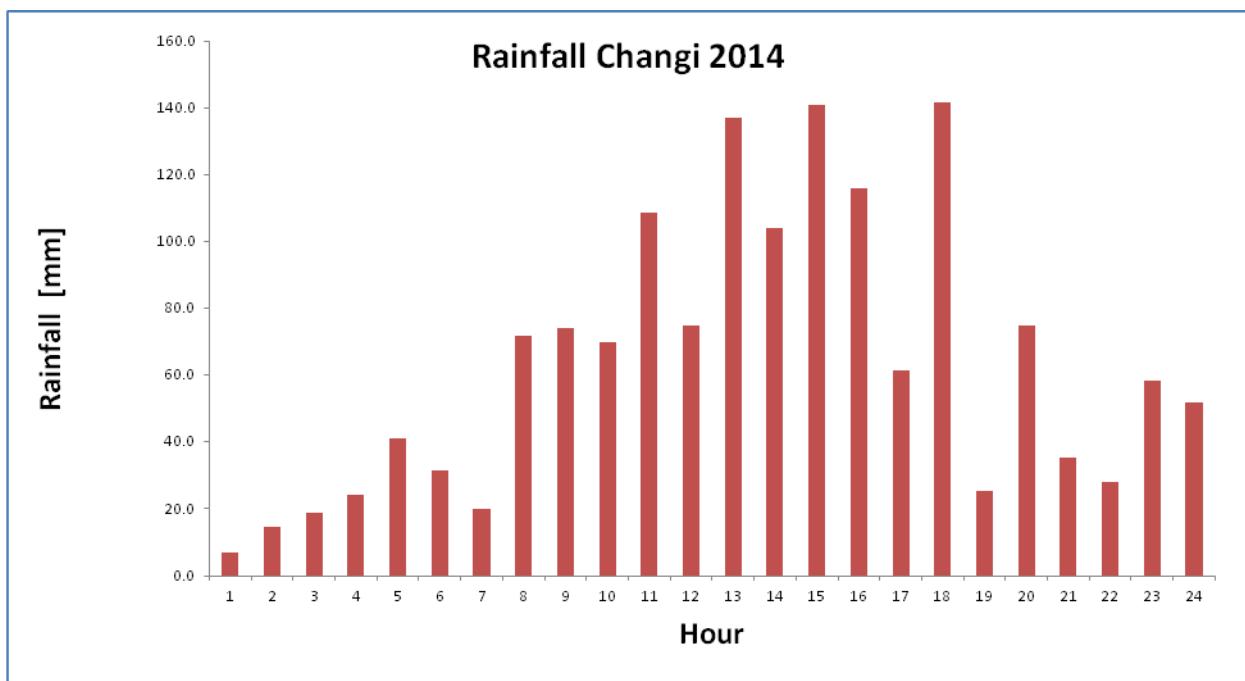
Hours	1	2	3	4	5	6	7	8	9	10	11	12
Min Dry Bulb Temperature (°C)	23.2	23.4	23.0	22.8	22.6	22.4	22.4	22.4	23.1	23.0	23.0	23.5
Max Dry Bulb Temperature (°C)	29.9	29.7	29.4	29.2	29.0	28.9	28.8	29.5	30.8	31.5	32.6	33.4
Average Dry Bulb Temperature (°C)	26.8	26.6	26.4	26.3	26.2	26.1	26.1	26.8	27.9	28.7	29.4	29.9
Average Dew Point Temperature (°C)	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.3	24.3	24.1	23.9	23.7
Min Relative Humidity (%)	70.6	68.6	61.5	71.4	73.4	70.6	74.7	70.2	67.3	63.0	57.5	49.9
Average Relative Humidity (%)	85.4	86.3	87.3	88.2	88.8	88.9	89.3	86.4	81.0	76.6	72.7	69.7
Average Wind Speed (m/s)	1.9	1.8	1.7	1.6	1.5	1.5	1.6	1.7	2.1	2.6	2.9	3.2
Max Gust (m/s)	9.5	8.8	12.7	16.8	13.8	11.5	10.8	16.6	13.6	11.8	12.9	11.4
Rainfall (mm)	6.8	14.4	18.8	24.0	41.2	31.6	19.8	71.8	74.0	70.0	108.8	74.8



- No Data
- Defective Data

S24 Changi 2014

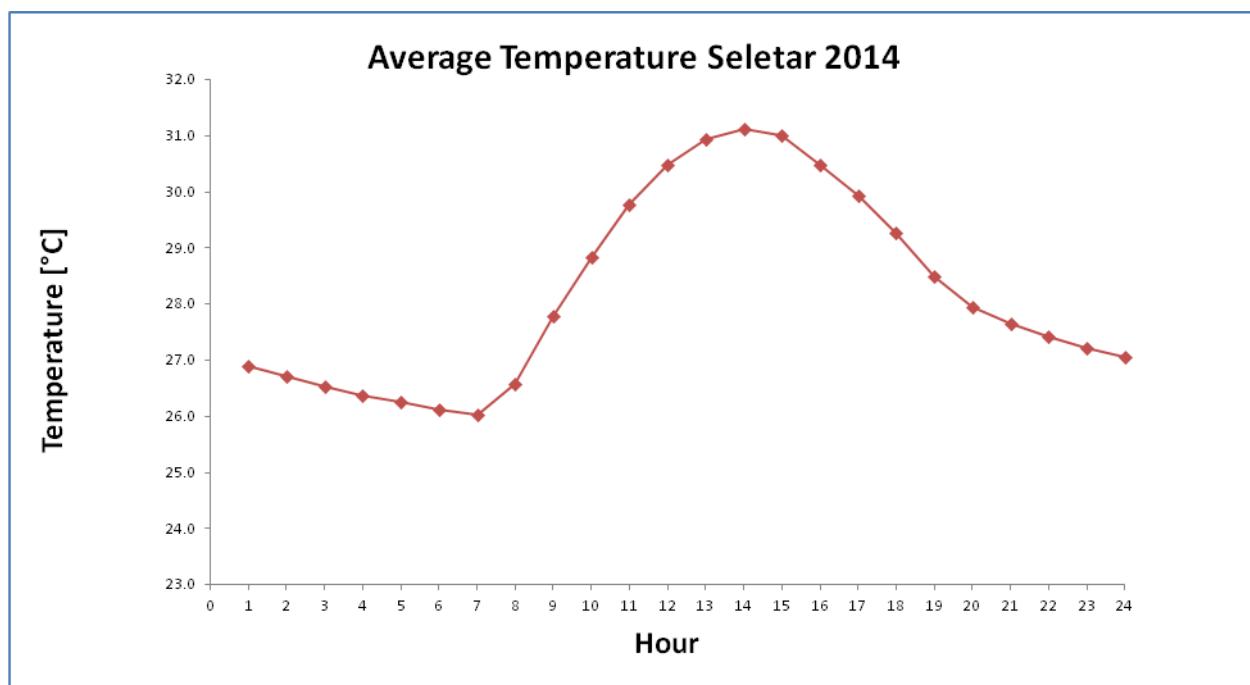
Hours	13	14	15	16	17	18	19	20	21	22	23	24
Min Dry Bulb Temperature (°C)	22.2	21.1	23.4	23.5	22.8	22.2	22.6	22.0	22.4	23.4	22.8	22.4
Max Dry Bulb Temperature (°C)	33.8	34.2	34.5	34.4	33.6	33.1	32.3	31.4	30.6	30.2	30.3	30.3
Average Dry Bulb Temperature (°C)	30.2	30.3	30.2	29.8	29.4	28.7	28.1	27.6	27.4	27.2	27.1	26.9
Average Dew Point Temperature (°C)	23.5	23.3	23.3	23.4	23.5	23.5	23.6	23.7	23.9	24.0	24.1	24.1
Min Relative Humidity (%)	39.8	41.1	37.8	41.0	37.2	39.8	38.7	53.1	62.8	63.6	68.2	68.7
Average Relative Humidity (%)	68.2	67.2	67.7	69.4	71.3	74.0	77.0	79.8	81.5	82.9	84.0	84.8
Average Wind Speed (m/s)	3.4	3.5	3.6	3.8	3.7	3.4	3.1	2.7	2.4	2.2	2.1	2.0
Max Gust (m/s)	19.6	14.7	17.1	12.4	11.9	14.1	11.3	10.8	10.9	13.8	8.9	17.2
Rainfall (mm)	137.0	104.0	140.8	116.0	61.6	141.8	25.4	74.8	35.4	28.0	58.2	52.0



- No Data
- Defective Data

S25 Seletar 2014

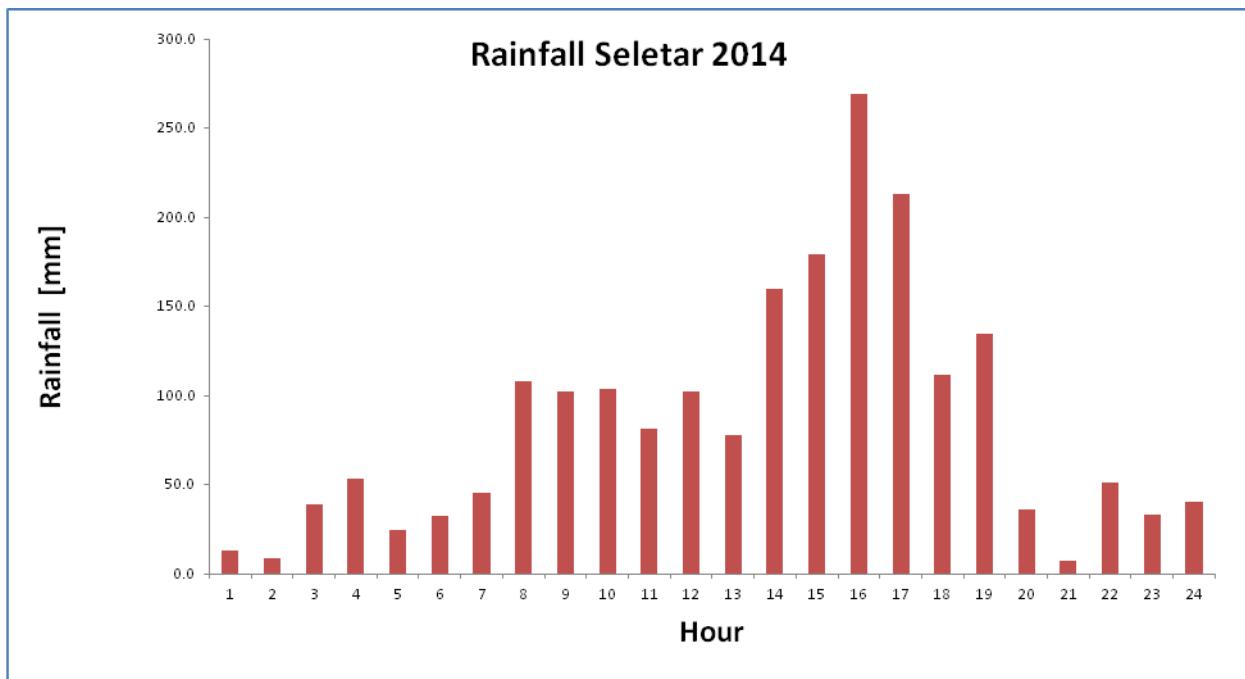
Hours	1	2	3	4	5	6	7	8	9	10	11	12
Min Dry Bulb Temperature (°C)	23.9	23.2	22.8	22.6	22.6	22.7	22.6	22.9	23.3	23.6	23.8	23.8
Max Dry Bulb Temperature (°C)	30.1	29.8	29.7	29.5	29.3	29.1	29.0	29.9	31.0	32.3	33.3	34.7
Average Dry Bulb Temperature (°C)	26.9	26.7	26.5	26.4	26.3	26.1	26.0	26.6	27.8	28.8	29.8	30.5
Average Dew Point Temperature (°C)	24.1	24.1	24.1	24.1	24.1	24.1	24.0	24.2	24.1	23.7	23.2	22.9
Min Relative Humidity (%)												
Average Relative Humidity (%)	84.9	85.8	86.8	87.5	88.1	88.5	89.0	87.1	80.6	74.3	68.6	64.6
Average Wind Speed (m/s)					1.7	1.8	1.7	1.8	2.3	3.1	3.5	3.6
Max Gust (m/s)					12.9	12.9	13.9	13.4	11.8	16.5	13.4	14.4
Rainfall (mm)	12.7	8.8	39.1	53.5	24.6	32.6	45.4	107.8	101.9	103.4	81.6	102.1



- No Data
- Defective Data

S25 Seletar 2014

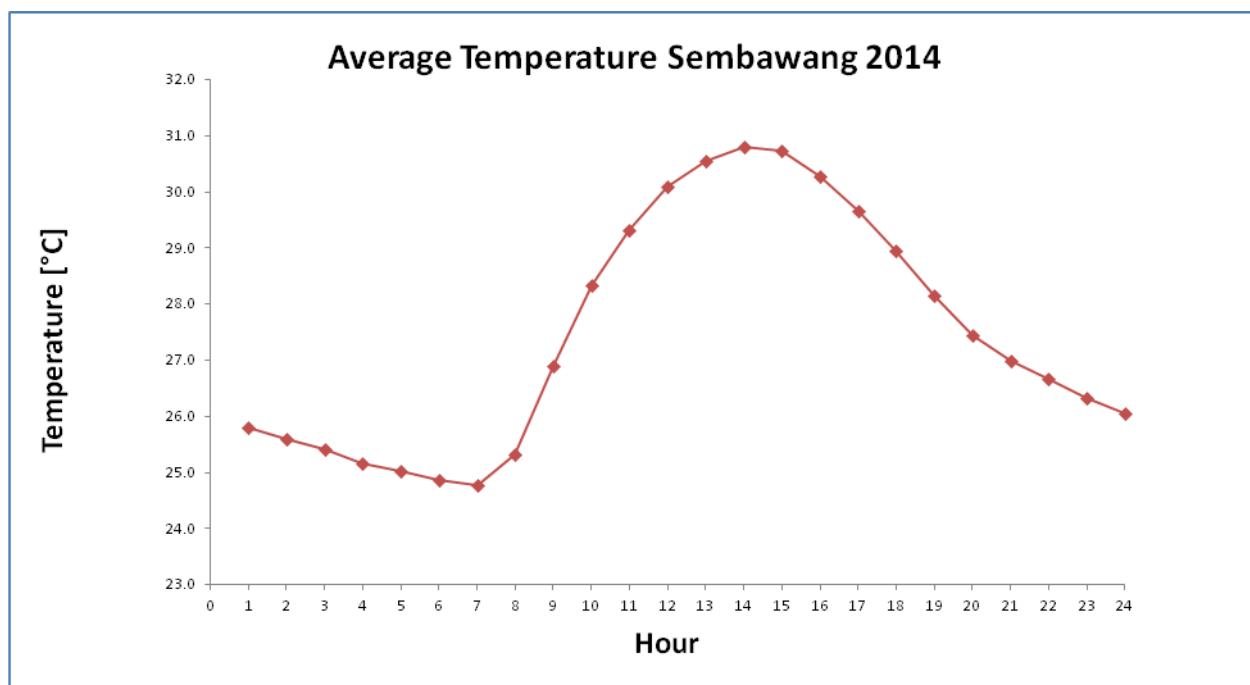
Hours	13	14	15	16	17	18	19	20	21	22	23	24
Min Dry Bulb Temperature (°C)	24.4	24.3	23.7	23.3	24.0	24.1	24.2	23.6	23.7	24.1	24.0	23.7
Max Dry Bulb Temperature (°C)	34.4	35.1	36.2	35.0	35.0	34.3	32.8	31.8	31.1	30.6	30.5	30.6
Average Dry Bulb Temperature (°C)	30.9	31.1	31.0	30.5	29.9	29.3	28.5	28.0	27.7	27.4	27.2	27.1
Average Dew Point Temperature (°C)	22.6	22.5	22.4	22.6	22.7	22.9	23.1	23.4	23.6	23.8	23.9	24.0
Min Relative Humidity (%)												
Average Relative Humidity (%)	62.3	61.5	61.4	64.3	66.5	69.7	73.5	76.7	79.2	81.1	82.6	83.8
Average Wind Speed (m/s)	3.7	3.9	4.0	4.2	4.1	3.8	3.3	2.9	2.8	2.6	2.4	
Max Gust (m/s)	14.4	14.4	14.4	13.9	14.4	13.9	12.3	11.8	12.3	11.8	10.8	
Rainfall (mm)	77.6	160.0	179.3	269.0	212.7	111.6	134.9	36.1	6.9	51.3	33.0	40.1



- No Data
- Defective Data

S80 Sembawang 2014

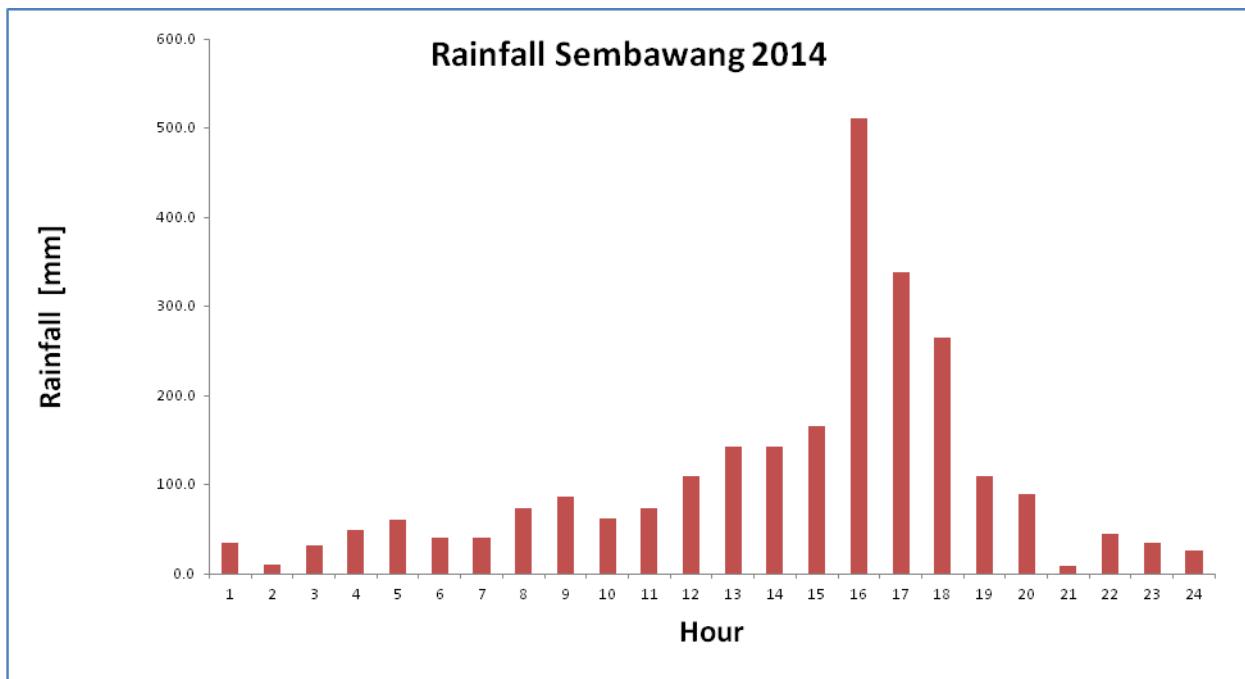
Hours	1	2	3	4	5	6	7	8	9	10	11	12
Min Dry Bulb Temperature (°C)	23.1	22.6	22.6	22.5	22.2	21.7	21.5	21.2	22.9	23.0	23.4	23.6
Max Dry Bulb Temperature (°C)	29.2	29.1	29.0	28.7	28.6	28.6	28.3	28.9	29.8	31.1	32.1	32.8
Average Dry Bulb Temperature (°C)	25.8	25.6	25.4	25.2	25.0	24.9	24.8	25.3	26.9	28.3	29.3	30.1
Average Dew Point Temperature (°C)	24.3	24.2	24.2	24.0	23.9	23.8	23.7	24.2	24.9	24.7	24.4	24.1
Min Relative Humidity (%)												
Average Relative Humidity (%)	91.8	92.4	93.0	93.5	93.6	93.9	94.1	93.9	89.1	80.9	75.3	71.2
Average Wind Speed (m/s)					1.4	1.5	1.4	1.5	1.7	2.4	2.7	2.8
Max Gust (m/s)					11.8	12.3	11.3	13.9	8.7	11.8	10.8	12.3
Rainfall (mm)	34.9	10.6	32.1	49.0	60.0	40.8	40.7	73.0	86.5	62.1	72.9	110.1



- No Data
- Defective Data

S80 Sembawang 2014

Hours	13	14	15	16	17	18	19	20	21	22	23	24
Min Dry Bulb Temperature (°C)	24.3	23.5	22.9	23.0	23.2	23.5	23.6	23.9	23.3	23.4	23.2	23.3
Max Dry Bulb Temperature (°C)	33.9	34.2	34.6	34.4	33.9	33.3	32.0	31.1	30.0	29.9	29.6	29.4
Average Dry Bulb Temperature (°C)	30.6	30.8	30.7	30.3	29.7	28.9	28.2	27.5	27.0	26.7	26.3	26.0
Average Dew Point Temperature (°C)	23.9	23.8	23.7	23.7	23.8	23.8	24.0	24.1	24.2	24.3	24.3	24.4
Min Relative Humidity (%)												
Average Relative Humidity (%)	68.9	67.5	67.5	69.4	72.0	75.2	78.9	82.5	85.4	87.1	89.0	91.0
Average Wind Speed (m/s)	2.9	3.0	3.1	3.2	3.1	2.7	2.4	2.2	2.0	1.9	1.7	
Max Gust (m/s)	13.9	12.9	11.3	17.0	10.3	10.8	9.8	7.2	7.2	11.8	6.2	
Rainfall (mm)	142.0	142.1	165.8	510.9	337.9	264.3	109.0	89.9	8.5	44.8	34.2	26.3



- No Data
- Defective Data

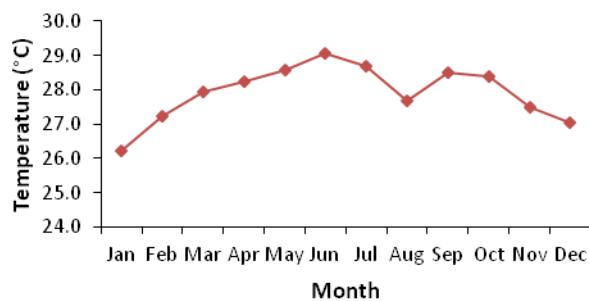
10. Weather Statistics for Automatic Weather Station

10.1. Monthly Observation

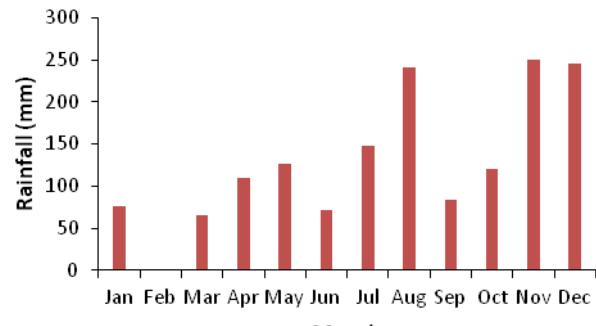
S24 Changi 2014

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Min Temperature (°C)	22.4	22.4	23.6	22.8	23.0	23.0	21.1	22.0	22.4	24.0	22.2	22.4
Average Daily Min Temperature (°C)	24.0	24.5	25.1	25.5	25.8	26.3	25.8	25.2	25.7	25.7	24.8	24.7
Average Temperature (°C)	26.2	27.2	27.9	28.2	28.6	29.0	28.7	27.7	28.5	28.4	27.5	27.1
Average Daily Max Temperature (°C)	29.6	31.9	32.8	32.4	32.1	32.1	31.6	30.4	31.8	32.1	31.6	30.6
Max Temperature	31.8	33.8	34.4	34.5	33.8	33.6	33.2	31.9	33.2	34.1	33.4	33.6
Average Dew Point Temperature (°C)	22.3	22.3	23.3	24.5	24.8	24.8	24.6	23.9	23.9	24.0	24.2	23.9
Min Relative Humidity (%)	48.8	43.1	37.8	40.9	47.6	44.8	52.8	53.4	37.2	39.6	52.9	51.3
Average Relative Humidity (%)	79.5	75.7	77.0	80.9	81.0	78.5	79.3	80.6	76.8	78.0	83.2	83.4
Average Wind Speed (m/s)	3.1	3.8	3.2	2.0	1.9	2.2	2.5	2.4	2.8	2.3	1.8	2.0
Prevailing Wind Direction	NNE	NE	NE	N	SSW	SSW	S	S	SE	SE	NE	NNW
Maximum Gust (m/s)	11.9	11.9	11.7	12.0	11.8	16.8	19.6	14.7	17.2	11.7	14.1	13.8
Total Rainfall (mm)	75.4	0.2	66.0	110.0	125.8	71.4	148.6	241.0	83.6	120.0	250.8	245.6
Highest Daily Rainfall (mm)	31.2	0.2	52.6	28.8	22.2	18.8	29.0	44.2	31.6	32.8	64.4	48.2

Average Temperature Changi 2014



Rainfall Changi 2014

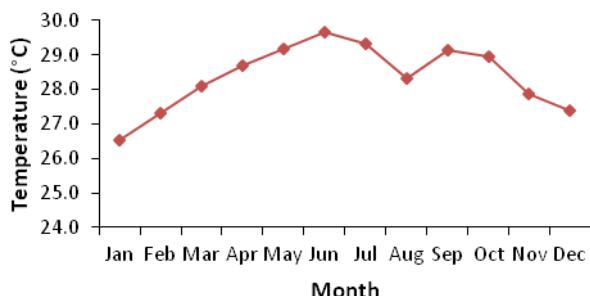


- No Data
- Defective Data

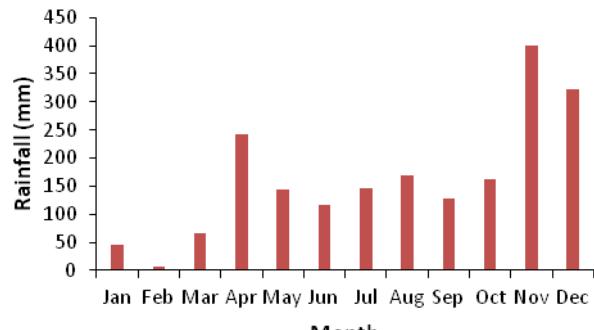
S43 Tai Seng 2014

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Min Temperature (°C)	23.7	23.2	23.9	23.2	23.7	22.8	22.8	22.9	23.0	24.2	23.3	23.6
Average Daily Min Temperature (°C)	24.7	24.9	25.7	25.8	26.5	26.6	26.7	25.9	26.4	26.4	25.4	25.2
Average Temperature (°C)	26.5	27.3	28.1	28.7	29.2	29.6	29.3	28.3	29.1	28.9	27.9	27.4
Average Daily Max Temperature (°C)	29.5	31.5	32.2	32.6	32.7	32.7	32.0	31.2	32.7	32.6	31.7	30.6
Max Temperature	31.6	32.9	34.3	34.4	34.4	34.5	33.8	33.2	34.1	34.5	34.4	33.7
Average Dew Point Temperature (°C)	21.7	21.7	22.6	23.9	24.5	24.4	24.4	23.6	23.4	23.5	23.9	23.6
Min Relative Humidity (%)	—	—	—	46.0	46.3	39.3	46.9	47.7	31.8	41.0	40.5	45.7
Average Relative Humidity (%)	—	—	—	75.5	76.6	74.1	75.4	76.1	72.1	73.4	80.3	81.0
Average Wind Speed (m/s)	3.8	3.9	3.0	1.6	1.6	2.0	2.0	1.8	1.9	1.6	1.5	2.1
Prevailing Wind Direction	ENE	ENE	ENE	ENE	ENE	S	S	S	S	ENE	ENE	ENE
Maximum Gust (m/s)	13.2	13.9	12.0	33.0	11.6	14.1	13.6	16.9	17.6	10.3	19.1	27.5
Total Rainfall (mm)	46.6	6.4	67.0	242.0	144.4	117.0	146.2	169.2	127.6	161.6	400.8	321.6
Highest Daily Rainfall (mm)	24.2	6.0	36.8	36.4	39.6	31.2	38.0	33.0	51.8	31.4	82.6	79.4

Average Temperature Tai Seng 2014



Rainfall Tai Seng 2014



- No Data
- Defective Data

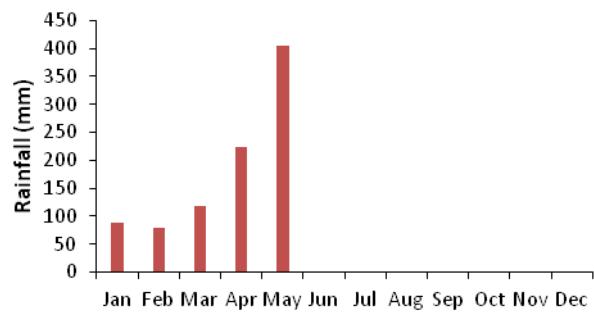
S44 Jurong (West) 2014

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Min Temperature (°C)	22.0	20.8	23.0	22.7	21.6	22.5						
Average Daily Min Temperature (°C)	23.2	23.3	24.2	24.6	24.6	25.8						
Average Temperature (°C)	25.7	26.8	27.2	27.7	28.0	29.0						
Average Daily Max Temperature (°C)	29.7	32.4	32.7	32.6	32.2	32.5						
Max Temperature	31.7	33.9	34.6	35.0	34.4	34.4						
Average Dew Point Temperature (°C)	20.9	20.8	21.9	23.4	24.1	23.9						
Min Relative Humidity (%)	37.3	30.0	30.1	34.8	42.8	33.9						
Average Relative Humidity (%)	76.3	71.5	75.0	79.0	80.6	75.3						
Average Wind Speed (m/s)	2.7	2.7	2.1	1.5	1.4	1.5						
Prevailing Wind Direction	NNE	NNE	NNE	NNE	NW	SE						
Maximum Gust (m/s)	11.9	10.9	10.7	14.6	12.7	14.7						
Total Rainfall (mm)	88.6	80.0	116.8	223.6	405.8	—						
Highest Daily Rainfall (mm)	52.4	60.0	39.6	44.6	70.0	58.4						

Average Temperature Jurong (West) 2014



Rainfall Jurong (West) 2014

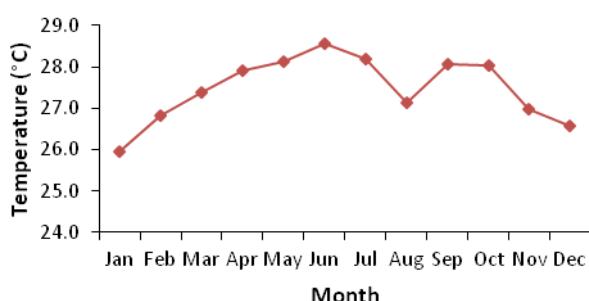


- No Data
- Defective Data

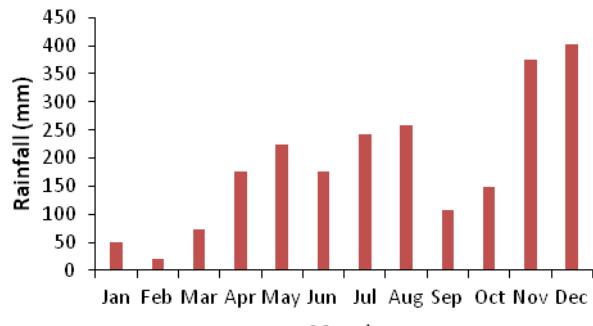
S50 Clementi 2014

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Min Temperature (°C)	22.5	22.2	23.7	23.0	22.4	22.5	22.2	21.8	22.1	22.8	23.0	22.3
Average Daily Min Temperature (°C)	23.6	23.9	24.6	25.1	25.3	25.7	25.6	24.7	25.5	25.4	24.4	24.1
Average Temperature (°C)	25.9	26.8	27.4	27.9	28.1	28.5	28.2	27.1	28.1	28.0	27.0	26.6
Average Daily Max Temperature (°C)	29.6	31.8	32.3	32.1	31.7	31.5	30.9	29.9	31.4	31.8	31.4	30.4
Max Temperature	32.0	32.9	34.0	34.4	34.1	33.4	32.5	32.2	33.6	33.5	33.4	33.0
Average Dew Point Temperature (°C)	21.5	21.7	22.7	23.8	24.3	24.4	24.3	23.6	23.4	23.5	23.7	23.5
Min Relative Humidity (%)	45.9	31.5	32.5	43.7	48.6	45.0	52.2	51.2	44.6	46.0	50.0	50.9
Average Relative Humidity (%)	77.5	74.8	76.9	79.4	80.5	78.9	80.0	81.3	76.6	77.4	83.1	84.0
Average Wind Speed (m/s)	1.8	2.0	1.6	1.1	1.2	1.7	1.8	1.5	1.6	1.2	1.1	1.3
Prevailing Wind Direction	NE	NE	NE	ENE	SSE	SSE	SSE	SSE	NE	NW	NW	
Maximum Gust (m/s)	12.6	12.6	11.2	10.6	12.0	11.1	12.5	11.4	13.1	10.7	10.6	12.8
Total Rainfall (mm)	50.0	20.6	73.2	175.0	224.8	177.0	242.8	258.0	107.6	149.2	375.0	402.6
Highest Daily Rainfall (mm)	40.4	13.4	21.2	37.6	59.0	22.0	55.8	40.2	52.0	41.0	102.6	57.4

Average Temperature Clementi 2014



Rainfall Clementi 2014

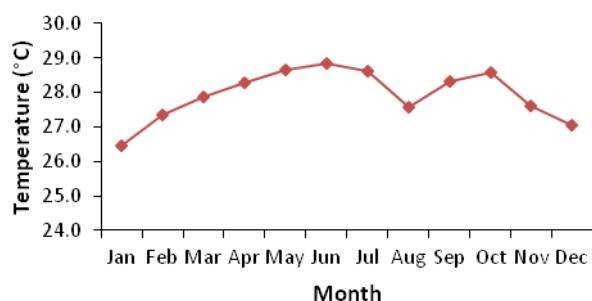


- No Data
- Defective Data

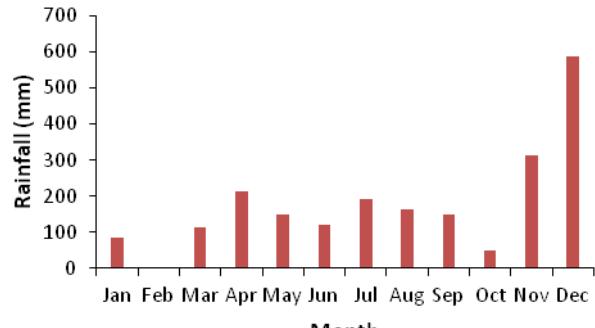
S60 Sentosa Island 2014

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Min Temperature (°C)	23.6	23.5	23.7	22.6	23.7	21.9	22.7	21.5	22.5	22.7	23.3	22.8
Average Daily Min Temperature (°C)	24.5	25.0	25.6	25.7	26.3	26.1	26.0	25.3	26.0	26.4	25.1	24.8
Average Temperature (°C)	26.5	27.4	27.9	28.3	28.6	28.8	28.6	27.6	28.3	28.6	27.6	27.1
Average Daily Max Temperature (°C)	29.9	31.8	31.6	31.4	31.4	31.8	31.5	30.3	31.7	31.8	31.1	30.6
Max Temperature	32.6	33.6	33.9	33.3	32.9	33.5	33.7	32.4	33.0	33.7	33.0	33.1
Average Dew Point Temperature (°C)	20.7	20.5	21.8	23.6	24.8	24.7	24.4	23.4	23.1	22.8	23.5	23.3
Min Relative Humidity (%)	39.8	30.0	30.4	37.3	49.9	47.0	46.4	47.8	34.0	37.6	46.8	41.1
Average Relative Humidity (%)	71.9	67.3	70.8	76.3	80.3	79.2	78.7	78.3	74.4	71.9	79.2	81.2
Average Wind Speed (m/s)	2.4	2.7	2.5	1.5	1.5	1.6	1.7	1.7	1.8	1.6	1.4	1.5
Prevailing Wind Direction	NNE	NE	NE	E	E	SE	SE	SE	E	E	N	N
Maximum Gust (m/s)	11.9	13.0	11.6	11.5	11.6	14.4	11.9	14.0	13.4	9.5	10.0	13.2
Total Rainfall (mm)	84.8	0.6	114.2	214.2	148.0	119.4	191.4	162.0	147.8	50.6	313.2	587.6
Highest Daily Rainfall (mm)	25.2	0.6	50.8	57.6	56.6	33.6	43.4	30.8	74.6	24.4	70.4	84.8

Average Temperature Sentosa Island 2014



Rainfall Sentosa Island 2014

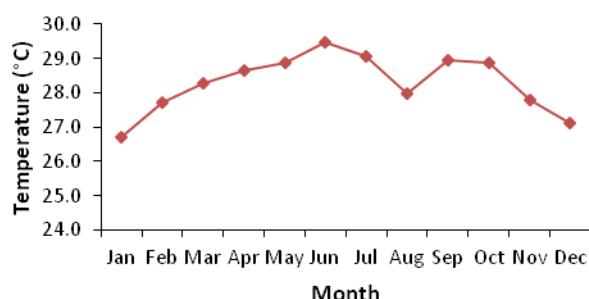


- No Data
- Defective Data

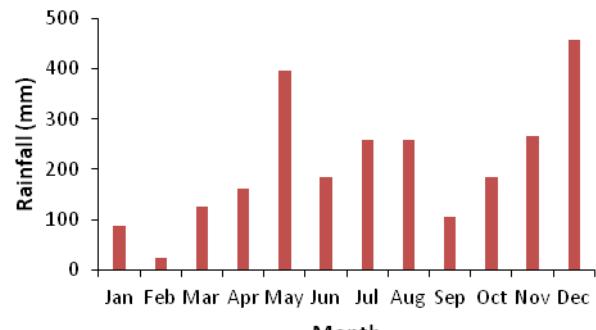
S86 Boon Lay (East) 2014

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Min Temperature (°C)	23.4	21.5	24.0	23.2	22.5	20.4	22.6	22.4	22.8	23.0	23.4	22.5
Average Daily Min Temperature (°C)	24.4	24.7	25.5	25.7	25.7	26.4	26.4	25.3	26.2	26.1	25.1	24.5
Average Temperature (°C)	26.7	27.7	28.3	28.7	28.9	29.5	29.1	28.0	28.9	28.9	27.8	27.1
Average Daily Max Temperature (°C)	30.4	32.8	33.1	32.9	32.5	32.4	31.7	30.8	32.3	32.4	32.0	31.0
Max Temperature	32.3	34.3	34.9	34.8	34.6	34.4	33.6	32.9	33.8	33.9	34.3	33.3
Average Dew Point Temperature (°C)	21.4	21.4	22.5	23.9	24.5	24.4	24.4	23.8	23.3	23.5	24.0	23.9
Min Relative Humidity (%)	42.2	30.0	30.0	38.0	44.3	40.8	43.7	50.0	41.9	38.7	46.2	45.7
Average Relative Humidity (%)	74.0	69.8	72.5	76.5	78.4	75.3	76.6	78.8	72.8	73.7	81.2	83.6
Average Wind Speed (m/s)	2.4	2.6	2.1	1.6	1.7	2.0	2.0	1.8	1.9	1.7	1.7	1.9
Prevailing Wind Direction	ENE	ENE	E	N	N	S	S	S	S	ESE	N	N
Maximum Gust (m/s)	11.8	11.2	10.2	17.4	15.7	19.8	16.7	18.0	14.3	23.8	15.0	13.7
Total Rainfall (mm)	87.2	23.0	127.1	161.4	395.2	184.0	259.2	257.6	106.0	183.8	266.8	457.0
Highest Daily Rainfall (mm)	51.2	18.4	44.6	59.2	86.0	64.8	101.0	40.6	45.0	55.0	64.6	74.6

Average Temperature Boon Lay (East) 2014



Rainfall Boon Lay (East) 2014

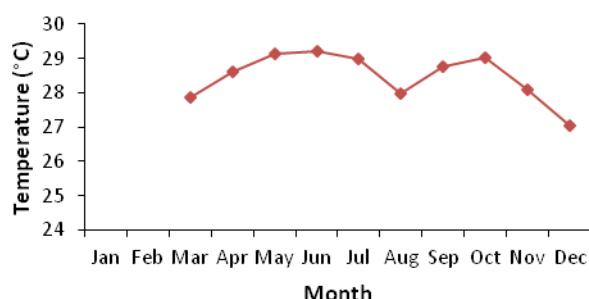


- No Data
- Defective Data

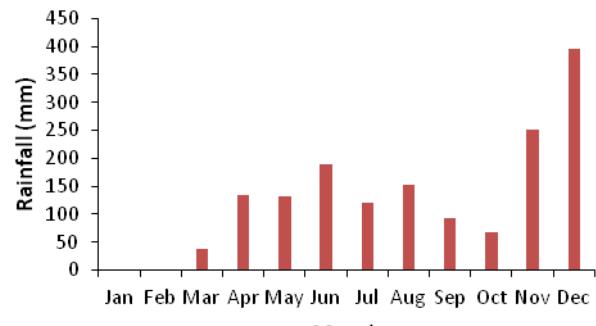
S102 Semakau Island 2014

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Min Temperature (°C)			24.6	24.1	24.2	23.9	24.2	22.6	23.1	23.4	23.4	23.6
Average Daily Min Temperature (°C)			26.2	26.5	27.1	27.1	27.0	25.8	26.9	27.2	26.0	25.1
Average Temperature (°C)			27.9	28.6	29.1	29.2	29.0	28.0	28.8	29.0	28.1	27.0
Average Daily Max Temperature (°C)			30.4	30.6	31.0	30.8	30.5	29.8	31.3	31.3	30.4	29.3
Max Temperature			31.9	32.1	33.1	32.4	31.8	31.9	32.7	32.9	32.8	31.4
Average Dew Point Temperature (°C)			22.9	24.0	24.6	24.8	24.7	23.8	23.8	23.7	24.1	23.6
Min Relative Humidity (%)			43.2	40.2	53.5	48.4	52.0	51.0	42.9	45.3	54.3	44.5
Average Relative Humidity (%)			74.8	76.7	77.1	77.9	78.1	78.5	75.1	73.5	79.4	82.2
Average Wind Speed (m/s)			5.8	3.3	3.3	3.9	4.2	4.0	3.9	3.3	3.5	4.1
Prevailing Wind Direction			NNE	E	E	S	SSE	S	E	E	N	N
Maximum Gust (m/s)			21.9	17.1	20.4	26.2	21.6	22.8	18.3	19.4	19.0	19.3
Total Rainfall (mm)			37.4	133.4	132.4	189.4	119.2	152.5	93.2	67.6	251.4	395.2
Highest Daily Rainfall (mm)			33.4	80.0	40.6	76.0	29.8	38.2	59.0	33.2	119.2	89.8

Average Temperature Semakau Island 2014



Rainfall Semakau Island 2014



- No Data
- Defective Data

S104 Admiralty 2014

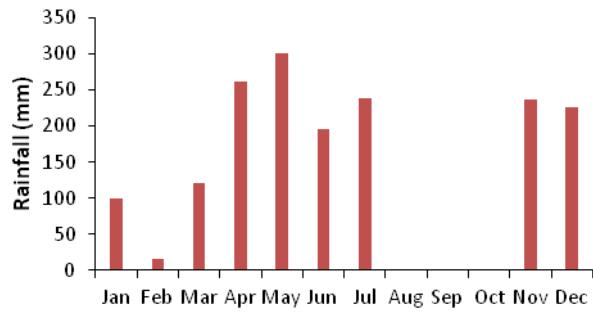
Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Min Temperature (°C)	22.4	21.8	23.5	22.4	22.7	22.6	22.0	23.5		24.0	23.0	23.4
Average Daily Min Temperature (°C)	23.6	23.9	24.6	25.0	25.2	25.8	25.8	25.1		25.1	24.8	24.5
Average Temperature (°C)	25.8	26.8	27.4	27.8	28.2	28.9	28.6	27.7		27.9	27.2	26.7
Average Daily Max Temperature (°C)	29.2	31.6	32.3	32.9	32.5	32.4	32.0	30.9		32.6	32.1	30.5
Max Temperature	31.9	33.4	34.0	35.8	34.9	34.5	33.9	32.3		34.3	34.5	34.5
Average Dew Point Temperature (°C)	22.5	22.6	23.6	24.9	25.5	25.2	25.3	24.8		24.8	25.1	24.8
Min Relative Humidity (%)	46.6	31.6	33.6	38.9	48.2	40.5	46.0	55.0		39.2	45.5	43.5
Average Relative Humidity (%)	83.1	79.6	81.8	85.5	86.1	81.8	83.6	85.0		85.1	89.1	90.2
Average Wind Speed (m/s)	3.3	3.4	3.0	1.8	1.7	1.7	1.8	1.8		1.8	1.9	2.4
Prevailing Wind Direction	NNE	NE	NE	N	S	S	S	S		N	N	N
Maximum Gust (m/s)	14.9	14.2	12.7	13.3	12.9	16.8	17.4	13.6		13.6	22.2	14.8
Total Rainfall (mm)	98.8	15.8	120.0	261.4	301.0	196.0	237.8	—	—	235.9	225.2	
Highest Daily Rainfall (mm)	80.0	15.8	29.6	60.4	46.0	41.8	53.8	35.6		41.8	58.2	45.2

Average Temperature Admiralty

2014



Rainfall Admiralty 2014



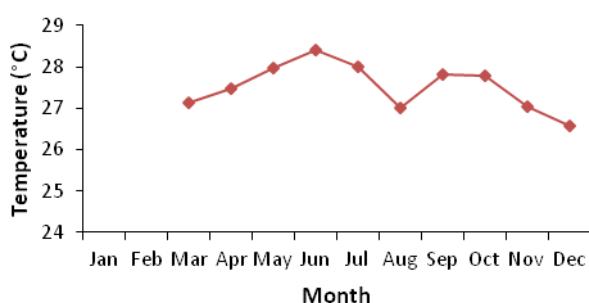
■ No Data

— Defective Data

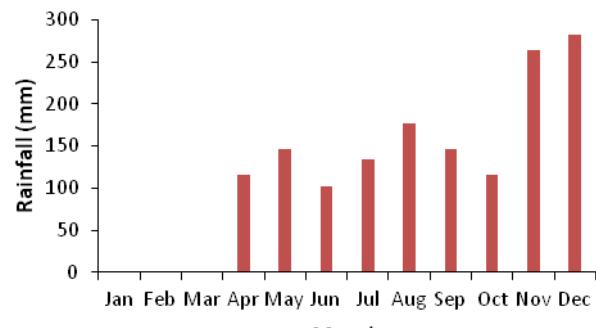
S106 Pulau Ubin 2014

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Min Temperature (°C)			22.4	23.4	23.4	22.9	21.7	23.1	22.7	23.7	22.7	22.9
Average Daily Min Temperature (°C)			24.0	24.7	25.1	25.3	25.0	24.6	24.8	24.9	24.6	24.4
Average Temperature (°C)			27.1	27.5	28.0	28.4	28.0	27.0	27.8	27.8	27.0	26.6
Average Daily Max Temperature (°C)			32.0	32.7	33.1	33.0	32.6	31.4	32.5	32.7	31.8	30.5
Max Temperature			33.4	34.8	34.7	34.8	34.6	33.5	33.6	34.0	34.4	33.8
Average Dew Point Temperature (°C)			24.2	25.4	25.9	26.0	25.9	25.3	25.1	25.2	25.4	25.1
Min Relative Humidity (%)			43.7	46.7	51.2	52.2	49.2	59.9	43.6	41.7	55.7	57.6
Average Relative Humidity (%)			85.5	89.3	89.6	88.0	89.1	90.9	86.5	87.1	91.6	92.1
Average Wind Speed (m/s)			1.4	0.9	0.9	0.9	1.0	0.9	1.1	1.1	1.3	1.9
Prevailing Wind Direction			NE	E	S	S	S	S	SE	NNE	NW	NW
Maximum Gust (m/s)			9.2	10.3	9.8	15.8	15.7	27.6	12.0	14.5	14.9	12.3
Total Rainfall (mm)			—	115.8	146.5	102.8	134.0	177.2	146.0	115.2	263.2	282.8
Highest Daily Rainfall (mm)			29.0	21.4	50.5	25.5	29.4	26.6	47.2	40.8	66.8	70.2

Average Temperature Pulau Ubin 2014



Rainfall Pulau Ubin 2014

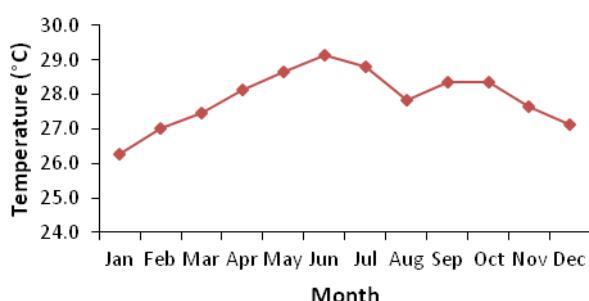


- No Data
- Defective Data

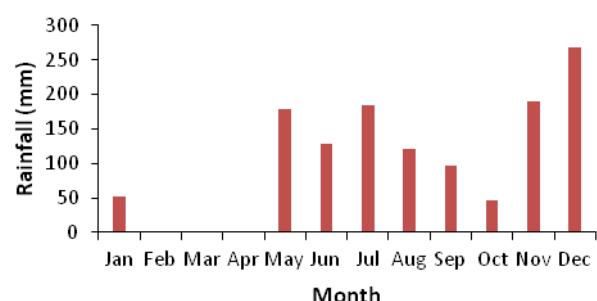
S107 East Coast Parkway 2014

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Min Temperature (°C)	23.4	21.1	23.8	23.7	23.3	23.6	22.3	23.1	23.0	23.4	23.1	22.1
Average Daily Min Temperature (°C)	24.5	24.7	25.2	25.8	26.4	26.9	26.3	25.6	26.2	26.5	25.6	25.0
Average Temperature (°C)	26.3	27.0	27.5	28.1	28.7	29.1	28.8	27.8	28.4	28.4	27.6	27.1
Average Daily Max Temperature (°C)	28.8	30.5	30.9	30.4	30.4	30.8	30.3	29.2	30.3	30.2	30.2	29.8
Max Temperature	31.1	31.7	32.6	33.2	31.6	31.9	31.5	30.5	32.3	31.4	32.1	32.2
Average Dew Point Temperature (°C)	21.4	21.5	22.0	24.1	24.5	24.5	24.4	23.6	23.7	23.8	23.8	23.2
Min Relative Humidity (%)	47.9	40.2	37.3	50.8	54.0	45.8	53.5	57.4	35.6	48.2	45.0	42.1
Average Relative Humidity (%)	75.1	72.4	73.3	79.2	78.5	76.4	77.5	78.0	76.4	76.6	80.1	79.7
Average Wind Speed (m/s)	3.2	3.3	2.8	2.1	2.7	3.6	3.8	3.6	3.6	2.6	2.0	2.1
Prevailing Wind Direction	N	NNE	NNE	N	NNW	S	SE	S	SE	ESE	N	N
Maximum Gust (m/s)	14.3	13.2	12.0	13.8	15.0	20.1	18.5	15.4	18.1	11.3	14.9	20.2
Total Rainfall (mm)	52.0	2.4	—	—	179.2	128.6	184.2	121.4	96.4	46.4	189.6	269.0
Highest Daily Rainfall (mm)	22.4	1.2	34.2	28.4	63.2	28.4	32.8	25.0	28.2	24.6	59.4	51.8

Average Temperature East Coast Parkway 2014



Rainfall East Coast Parkway 2014

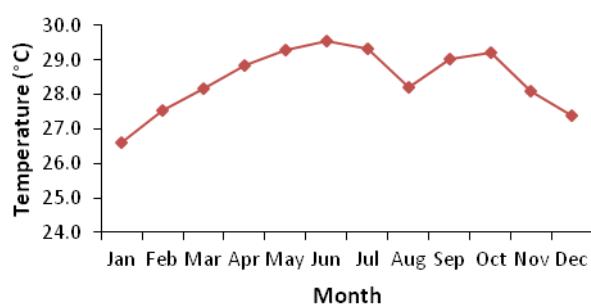


- No Data
- Defective Data

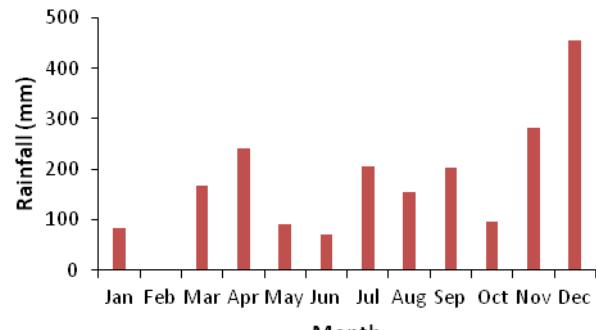
S108 Marina Barrage 2014

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Min Temperature (°C)	23.8	22.0	23.6	23.2	23.7	23.6	22.9	22.9	22.4	23.4	23.8	23.1
Average Daily Min Temperature (°C)	24.6	24.9	25.7	25.8	26.6	26.8	26.5	25.7	26.3	26.7	25.3	24.8
Average Temperature (°C)	26.6	27.5	28.2	28.8	29.3	29.6	29.3	28.2	29.0	29.2	28.1	27.4
Average Daily Max Temperature (°C)	30.3	32.4	32.5	32.6	32.7	32.7	32.4	31.5	32.8	33.0	32.5	31.5
Max Temperature	34.0	34.9	35.1	34.5	34.5	34.7	34.6	33.7	34.7	34.5	34.5	34.1
Average Dew Point Temperature (°C)	21.6	21.6	22.8	24.2	24.8	24.9	24.8	24.0	24.0	24.0	24.1	23.7
Min Relative Humidity (%)	42.8	31.1	32.0	38.6	49.1	46.3	46.3	46.4	35.7	43.5	46.5	41.5
Average Relative Humidity (%)	74.9	71.5	73.7	77.0	77.4	76.6	77.1	78.4	75.4	74.2	79.8	81.1
Average Wind Speed (m/s)	2.9	2.9	2.4	1.4	1.3	1.3	1.4	1.4	1.5	1.4	1.4	1.8
Prevailing Wind Direction	NNE	NE	NE	NNW	SW	SW	SW	SW	SSE	NNW	NNW	NNW
Maximum Gust (m/s)	12.6	12.3	20.9	23.6	11.7	12.9	27.8	14.1	12.1	20.8	26.5	17.2
Total Rainfall (mm)	84.4	3.0	168.2	241.4	91.6	71.4	204.6	155.8	203.2	97.2	282.0	455.0
Highest Daily Rainfall (mm)	25.0	3.0	71.6	53.6	39.2	14.0	72.0	27.8	63.4	41.0	58.2	73.4

Average Temperature Marina Barrage 2014



Rainfall Marina Barrage 2014

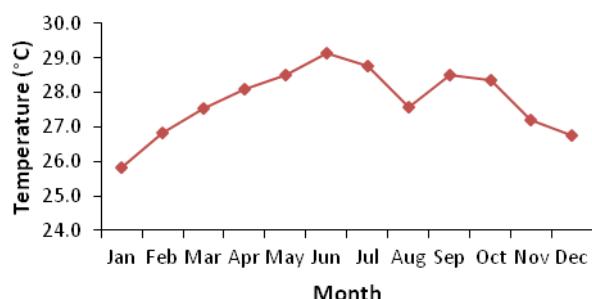


- No Data
- Defective Data

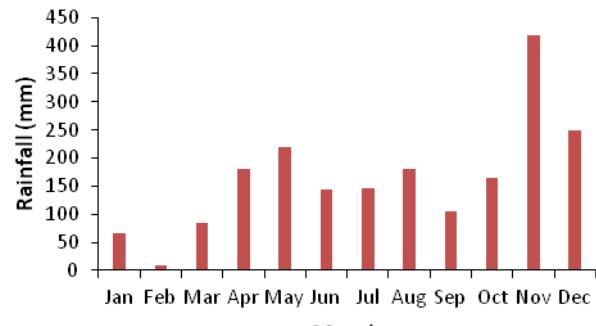
S109 Ang Mo Kio 2014

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Min Temperature (°C)	22.5	22.2	23.7	22.9	22.7	22.3	21.8	22.7	22.5	22.2	22.5	22.4
Average Daily Min Temperature (°C)	23.7	24.0	24.7	25.1	25.4	25.9	25.9	24.9	25.5	25.4	24.4	24.4
Average Temperature (°C)	25.8	26.8	27.5	28.1	28.5	29.2	28.7	27.6	28.5	28.3	27.2	26.8
Average Daily Max Temperature (°C)	29.3	31.9	32.5	32.8	32.5	32.6	32.0	30.8	32.4	32.5	31.9	30.7
Max Temperature	31.8	33.3	34.7	34.9	34.8	35.0	34.1	32.7	34.2	34.4	34.0	33.7
Average Dew Point Temperature (°C)	20.5	20.4	21.4	22.9	23.4	23.1	23.2	22.6	22.1	22.3	23.1	23.0
Min Relative Humidity (%)	40.1	32.3	30.7	35.6	40.7	35.8	39.3	41.4	30.0	34.8	39.1	42.6
Average Relative Humidity (%)	73.6	69.4	71.3	74.9	75.0	71.3	73.0	75.2	69.7	71.3	80.0	81.0
Average Wind Speed (m/s)	2.2	2.3	1.9	1.3	1.4	1.6	1.6	1.6	1.9	1.5	1.2	1.5
Prevailing Wind Direction	NNE	NE	ENE	NE	E	E	E	E	ENE	W	W	W
Maximum Gust (m/s)	11.5	12.0	10.7	10.7	12.5	13.9	15.7	12.9	12.3	11.9	11.9	10.5
Total Rainfall (mm)	66.6	8.4	85.2	180.0	220.6	143.8	146.4	180.6	105.2	164.6	418.4	250.0
Highest Daily Rainfall (mm)	40.0	8.4	43.4	36.8	42.2	32.6	34.6	60.2	24.8	39.8	54.2	57.2

Average Temperature Ang Mo Kio 2014



Rainfall Ang Mo Kio 2014

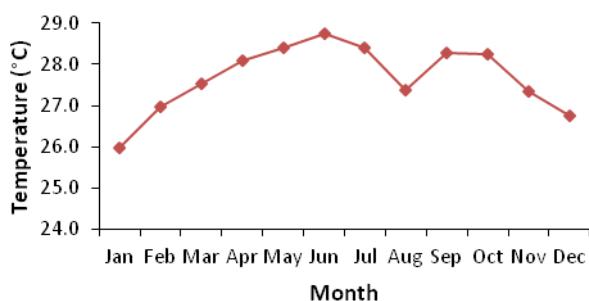


- No Data
- Defective Data

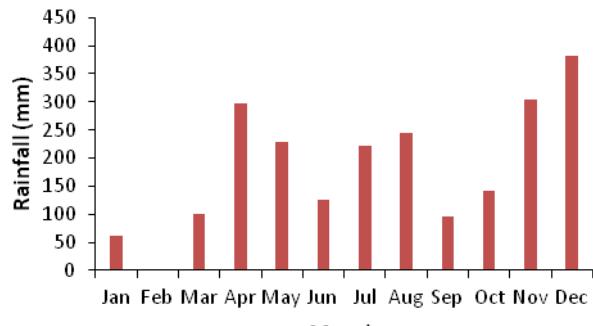
S111 Newton 2014

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Min Temperature (°C)	23.3	23.0	23.8	23.3	23.4	23.0	22.8	22.0	22.1	23.1	23.1	23.0
Average Daily Min Temperature (°C)	24.0	24.5	25.2	25.5	26.0	26.3	26.1	25.1	26.1	25.9	25.0	24.4
Average Temperature (°C)	26.0	27.0	27.5	28.1	28.4	28.8	28.4	27.4	28.3	28.3	27.3	26.8
Average Daily Max Temperature (°C)	29.4	31.5	31.9	32.0	31.7	31.6	31.1	30.0	31.7	31.8	31.2	30.4
Max Temperature	32.1	33.1	34.2	34.1	33.4	33.6	33.1	31.7	33.3	34.4	33.4	32.9
Average Dew Point Temperature (°C)	21.1	21.0	22.3	24.1	24.7	24.6	24.5	23.9	23.3	23.4	24.3	24.3
Min Relative Humidity (%)	42.6	31.3	32.1	34.6	45.0	42.5	45.1	46.2	34.3	38.9	44.2	44.1
Average Relative Humidity (%)	75.5	71.4	74.7	80.2	81.2	79.2	80.3	82.0	75.7	76.2	84.9	86.1
Average Wind Speed (m/s)	2.2	2.2	2.0	1.5	1.8	2.2	2.3	2.3	2.5	1.9	1.4	1.6
Prevailing Wind Direction	N	N	N	E	ESE	SSW	SE	ESE	ESE	ESE	NW	N
Maximum Gust (m/s)	12.5	12.7	12.7	14.0	13.7	19.6	16.4	16.0	14.7	12.5	15.3	12.6
Total Rainfall (mm)	62.4	0.4	99.8	297.4	227.8	125.0	221.8	245.6	96.2	141.8	303.8	382.6
Highest Daily Rainfall (mm)	26.8	0.4	42.2	72.4	84.4	23.2	88.4	52.0	36.4	44.6	73.2	67.6

Average Temperature Newton
2014



Rainfall Newton 2014

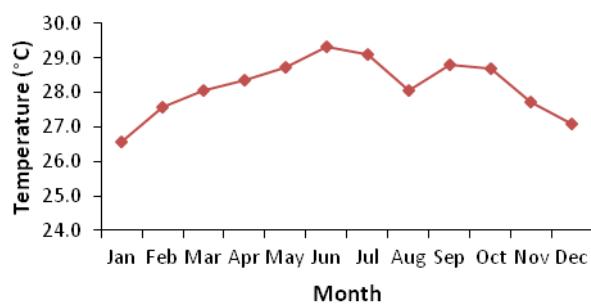


- No Data
- Defective Data

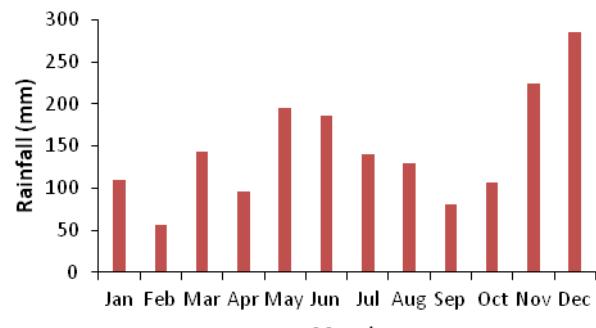
S115 Tuas South 2014

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Min Temperature (°C)	23.2	21.7	23.6	24.2	23.3	23.6	22.3	23.3	22.9	22.9	23.3	22.8
Average Daily Min Temperature (°C)	24.2	24.7	25.3	26.0	25.9	26.7	26.5	25.8	26.2	26.3	25.4	24.9
Average Temperature (°C)	26.6	27.6	28.0	28.4	28.7	29.3	29.1	28.1	28.8	28.7	27.7	27.1
Average Daily Max Temperature (°C)	30.2	32.3	32.2	31.3	31.5	31.9	31.6	30.7	32.0	31.7	30.8	30.4
Max Temperature	32.0	33.9	34.5	34.2	33.5	33.5	33.6	32.7	33.2	33.6	33.8	32.9
Average Dew Point Temperature (°C)	21.2	21.4	22.5	23.7	24.4	24.5	24.2	23.5	23.5	23.5	23.7	23.3
Min Relative Humidity (%)	39.0	34.7	33.7	41.8	51.9	51.6	52.1	50.4	46.7	47.0	51.6	47.9
Average Relative Humidity (%)	73.4	70.2	72.8	76.3	77.9	75.9	75.5	76.9	73.5	74.3	79.0	80.4
Average Wind Speed (m/s)	2.1	2.1	1.8	1.7	1.7	1.8	1.7	1.8	1.7	1.5	1.7	1.8
Prevailing Wind Direction	NE	NE	NE	NNE	S	S	S	SSW	S	S	NNE	NNE
Maximum Gust (m/s)	20.1	10.0	10.6	11.9	17.0	24.6	19.2	14.8	19.3	13.1	12.3	16.2
Total Rainfall (mm)	109.2	56.4	142.6	96.4	195.0	185.8	140.4	130.0	80.8	107.0	223.6	284.6
Highest Daily Rainfall (mm)	57.6	50.4	57.4	23.2	66.8	31.0	35.0	45.4	32.8	69.8	50.0	58.4

Average Temperature Tuas South 2014



Rainfall Tuas South 2014

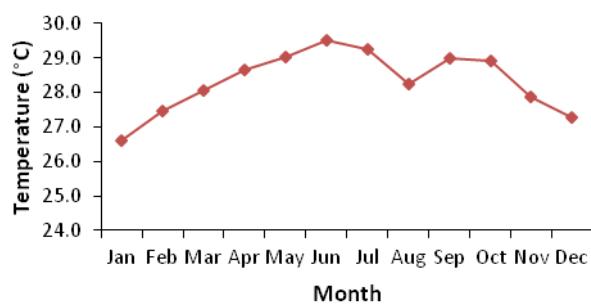


- No Data
- Defective Data

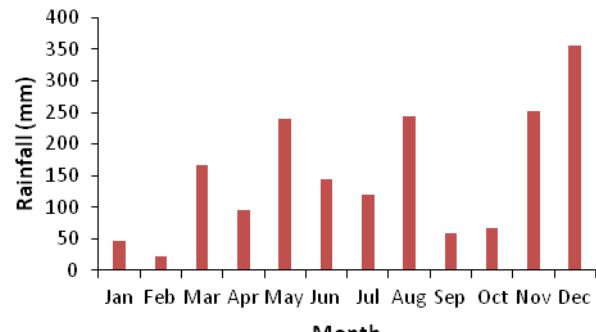
S116 Pasir Panjang 2014

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Min Temperature (°C)	23.8	22.2	23.5	22.7	22.6	22.8	23.2	22.2	22.8	22.8	23.3	23.4
Average Daily Min Temperature (°C)	24.7	24.9	25.6	26.2	26.4	26.9	27.0	26.0	26.9	26.8	25.6	25.0
Average Temperature (°C)	26.6	27.5	28.1	28.7	29.0	29.5	29.2	28.3	29.0	28.9	27.9	27.3
Average Daily Max Temperature (°C)	29.8	31.8	32.0	31.4	31.5	31.6	31.3	30.3	31.5	31.6	31.0	30.5
Max Temperature	31.7	33.5	34.0	33.7	33.3	33.3	33.3	31.9	32.7	33.3	32.8	32.8
Average Dew Point Temperature (°C)	21.8	22.0	23.1	24.5	25.2	25.3	25.1	24.3	24.2	24.3	24.5	24.2
Min Relative Humidity (%)	45.1	31.6	36.0	42.7	51.1	50.9	50.3	49.3	44.9	47.9	53.2	48.4
Average Relative Humidity (%)	75.8	73.3	75.6	78.7	80.1	78.7	79.1	79.6	76.1	76.9	82.7	84.3
Average Wind Speed (m/s)	4.0	3.8	3.2	2.5	2.4	2.7	2.8	2.7	2.9	2.4	2.3	2.8
Prevailing Wind Direction	NE	NE	NE	NE	SSW	SSW	ESE	ESE	ESE	NE	NE	NE
Maximum Gust (m/s)	14.0	16.6	15.9	20.6	17.3	28.8	18.2	17.2	18.8	16.8	18.0	18.6
Total Rainfall (mm)	46.2	21.2	165.8	95.2	239.8	144.6	120.4	244.0	59.0	66.2	253.0	355.2
Highest Daily Rainfall (mm)	25.0	16.0	54.4	27.6	64.8	37.2	26.0	64.4	25.6	31.6	59.0	53.2

Average Temperature Pasir Panjang 2014



Rainfall Pasir Panjang 2014

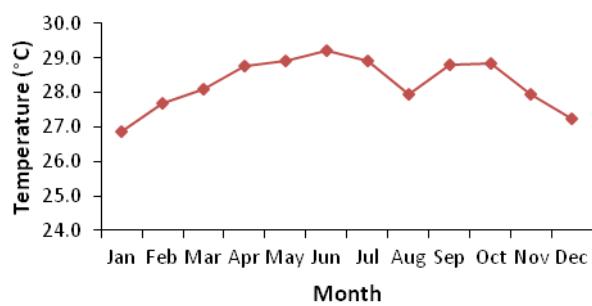


- No Data
- Defective Data

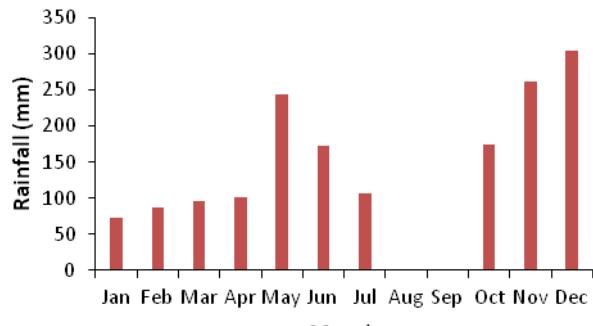
S117 Jurong Island 2014

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Min Temperature (°C)	23.4	21.4	23.9	23.4	23.1	23.1	22.5	22.0	23.1	22.3	22.6	22.6
Average Daily Min Temperature (°C)	24.5	24.8	25.6	26.2	26.2	26.6	26.4	25.6	26.7	26.4	25.3	24.7
Average Temperature (°C)	26.9	27.7	28.1	28.8	28.9	29.2	28.9	27.9	28.8	28.9	27.9	27.2
Average Daily Max Temperature (°C)	30.6	32.5	32.1	32.2	32.0	32.0	31.3	30.3	31.6	31.9	31.4	30.8
Max Temperature	33.0	34.5	34.7	33.9	33.4	34.2	33.0	32.0	32.9	33.0	33.2	33.7
Average Dew Point Temperature (°C)	20.4	20.6	21.9	23.3	24.2	24.6	24.4	23.7	23.5	23.5	24.0	23.9
Min Relative Humidity (%)	34.6	30.0	30.0	40.2	47.0	43.0	47.3	46.8	42.2	39.3	50.3	41.3
Average Relative Humidity (%)	69.2	66.5	70.4	73.2	76.5	76.8	77.1	78.2	73.7	73.7	79.8	82.7
Average Wind Speed (m/s)	2.4	2.5	2.7	2.2	2.5	2.6	3.0	3.0	3.3	2.7	2.3	—
Prevailing Wind Direction	N	N	N	N	ESE	ESE	ESE	ESE	ESE	ESE	N	—
Maximum Gust (m/s)	11.9	13.0	15.3	25.8	14.1	15.9	18.4	16.3	25.0	18.2	25.5	—
Total Rainfall (mm)	72.0	87.8	95.6	100.4	243.0	173.2	106.6	—	—	175.0	261.0	303.8
Highest Daily Rainfall (mm)	36.0	54.6	23.8	33.4	68.2	32.8	24.6	131.6	51.8	73.8	41.0	44.0

Average Temperature Jurong Island 2014



Rainfall Jurong Island 2014

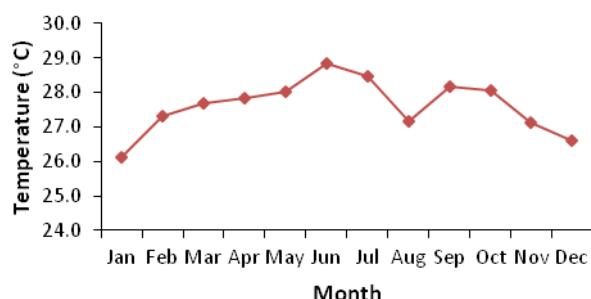


- No Data
- Defective Data

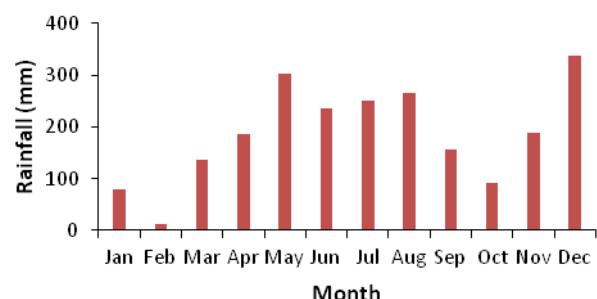
S121 Choa Chu Kang (South) 2014

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Min Temperature (°C)	22.6	22.5	23.6	23.0	22.0	22.5	22.0	22.4	22.2	23.8	23.0	22.4
Average Daily Min Temperature (°C)	23.7	24.2	24.6	24.9	24.8	25.5	25.5	24.5	24.9	25.2	24.5	24.2
Average Temperature (°C)	26.1	27.3	27.7	27.8	28.0	28.8	28.5	27.2	28.2	28.1	27.1	26.6
Average Daily Max Temperature (°C)	29.8	32.3	32.7	32.8	32.4	32.5	31.9	30.8	32.3	32.5	31.9	30.7
Max Temperature	31.7	33.6	34.8	35.1	34.7	34.6	33.6	32.6	33.9	34.5	34.0	33.9
Average Dew Point Temperature (°C)	20.5	20.2	21.3	22.8	23.6	23.2	23.2	23.1	22.6	22.8	23.6	23.7
Min Relative Humidity (%)	37.8	30.0	30.0	39.3	42.1	33.6	39.4	44.7	35.5	33.9	40.2	42.5
Average Relative Humidity (%)	72.5	66.9	70.2	75.8	78.3	72.9	74.6	79.5	73.7	74.7	82.6	85.6
Average Wind Speed (m/s)	2.4	2.5	1.9	1.1	1.1	1.3	1.3	1.2	1.3	1.1	1.1	1.3
Prevailing Wind Direction	NNE	NNE	NNE	N	N	SSE	SSE	SSE	SSE	N	N	N
Maximum Gust (m/s)	10.8	11.0	9.7	13.9	11.3	16.3	13.1	12.7	11.0	11.4	11.3	15.6
Total Rainfall (mm)	79.4	13.4	136.0	186.6	301.8	236.8	249.6	266.4	156.8	91.2	189.6	336.8
Highest Daily Rainfall (mm)	64.8	7.8	51.4	33.8	47.0	47.6	79.6	43.6	72.6	26.8	33.0	57.4

Average Temperature Choa Chu Kang (South) 2014



Rainfall Choa Chu Kang (South) 2014

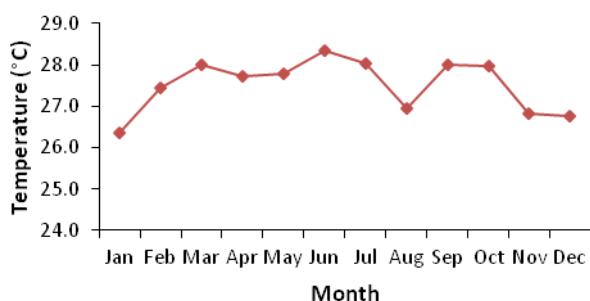


- No Data
- Defective Data

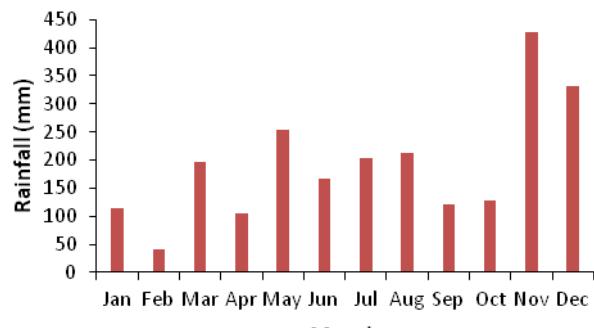
S122 Khatib 2014

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Min Temperature (°C)	22.4	21.9	23.4	22.8	22.8	22.7	21.7	22.0	22.3	23.3	22.4	22.3
Average Daily Min Temperature (°C)	23.7	24.1	24.7	24.6	24.5	24.9	24.9	24.2	24.4	24.8	23.9	24.0
Average Temperature (°C)	26.4	27.4	28.0	27.7	27.8	28.3	28.0	27.0	28.0	28.0	26.8	26.7
Average Daily Max Temperature (°C)	30.5	32.9	33.5	33.1	32.9	32.7	32.2	31.1	32.5	32.8	32.1	31.1
Max Temperature	32.7	34.1	35.8	35.3	34.7	34.5	34.5	32.7	34.2	34.6	34.1	33.8
Average Dew Point Temperature (°C)	21.7	22.3	23.0	23.4	23.7	23.3	23.2	22.9	22.3	22.4	23.1	22.8
Min Relative Humidity (%)	38.7	30.2	30.0	35.0	43.5	36.7	35.3	41.4	32.9	33.8	39.3	41.4
Average Relative Humidity (%)	76.2	75.9	74.8	75.3	79.8	75.9	76.5	79.7	73.1	73.8	82.1	80.3
Average Wind Speed (m/s)	1.9	2.1	1.9	1.1	1.1	1.3	1.3	1.2	1.4	1.2	1.1	1.3
Prevailing Wind Direction	NNE	NE	NE	NNW	E	S	S	S	ESE	NW	NNW	NNW
Maximum Gust (m/s)	10.0	14.3	11.0	10.0	10.4	12.5	11.0	11.3	10.2	11.5	17.0	10.5
Total Rainfall (mm)	114.2	40.6	196.2	105.1	252.8	167.6	203.6	212.4	121.6	126.8	426.8	330.6
Highest Daily Rainfall (mm)	61.8	40.2	41.6	20.4	38.8	42.4	50.4	50.6	46.8	68.4	92.6	78.2

Average Temperature Khatib 2014



Rainfall Khatib 2014

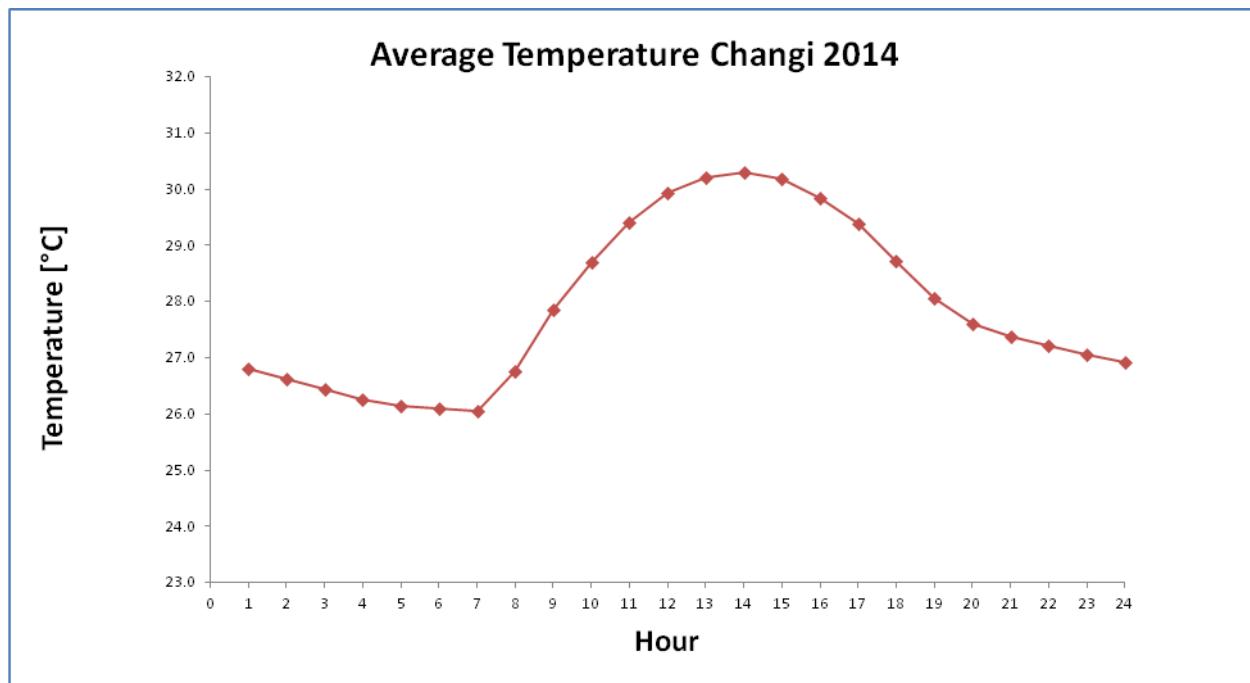


- No Data
- Defective Data

10.2. Hourly Observation

S24 Changi 2014

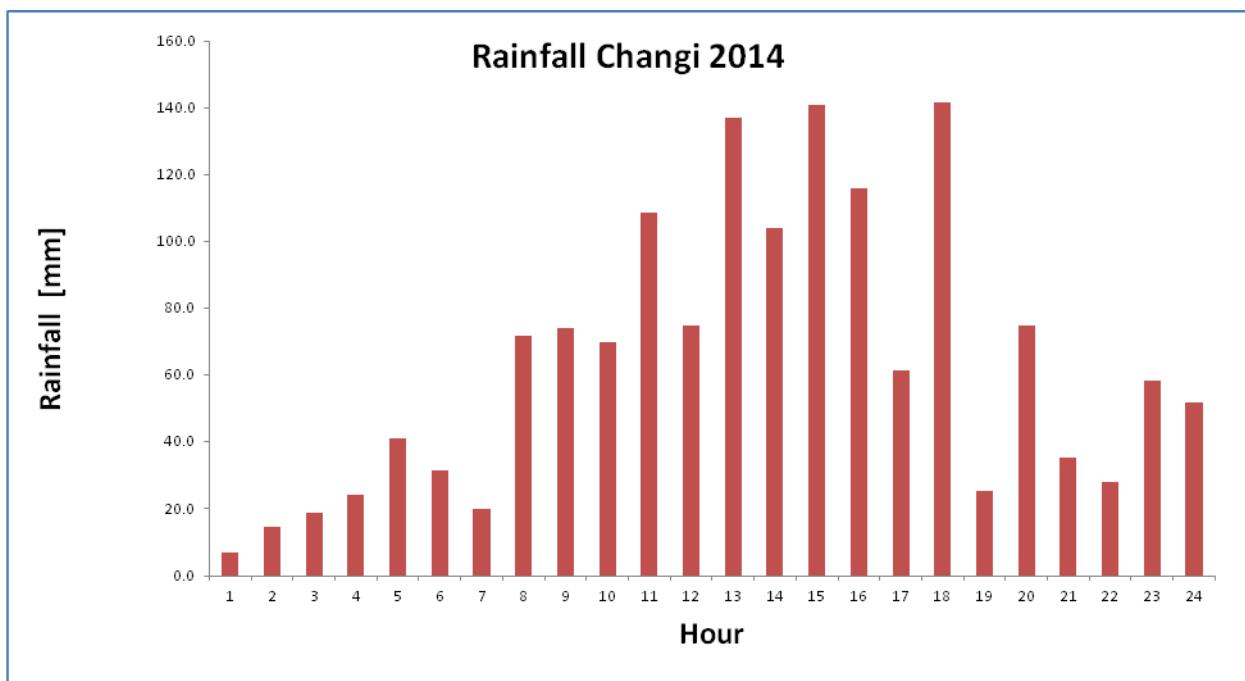
Hours	1	2	3	4	5	6	7	8	9	10	11	12
Min Dry Bulb Temperature (°C)	23.2	23.4	23.0	22.8	22.6	22.4	22.4	22.4	23.1	23.0	23.0	23.5
Max Dry Bulb Temperature (°C)	29.9	29.7	29.4	29.2	29.0	28.9	28.8	29.5	30.8	31.5	32.6	33.4
Average Dry Bulb Temperature (°C)	26.8	26.6	26.4	26.3	26.2	26.1	26.1	26.8	27.9	28.7	29.4	29.9
Average Dew Point Temperature (°C)	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.3	24.3	24.1	23.9	23.7
Min Relative Humidity (%)	70.6	68.6	61.5	71.4	73.4	70.6	74.7	70.2	67.3	63.0	57.5	49.9
Average Relative Humidity (%)	85.4	86.3	87.3	88.2	88.8	88.9	89.3	86.4	81.0	76.6	72.7	69.7
Average Wind Speed (m/s)	1.9	1.8	1.7	1.6	1.5	1.5	1.6	1.7	2.1	2.6	2.9	3.2
Max Gust (m/s)	9.5	8.8	12.7	16.8	13.8	11.5	10.8	16.6	13.6	11.8	12.9	11.4
Rainfall (mm)	6.8	14.4	18.8	24.0	41.2	31.6	19.8	71.8	74.0	70.0	108.8	74.8



- No Data
- Defective Data

S24 Changi 2014

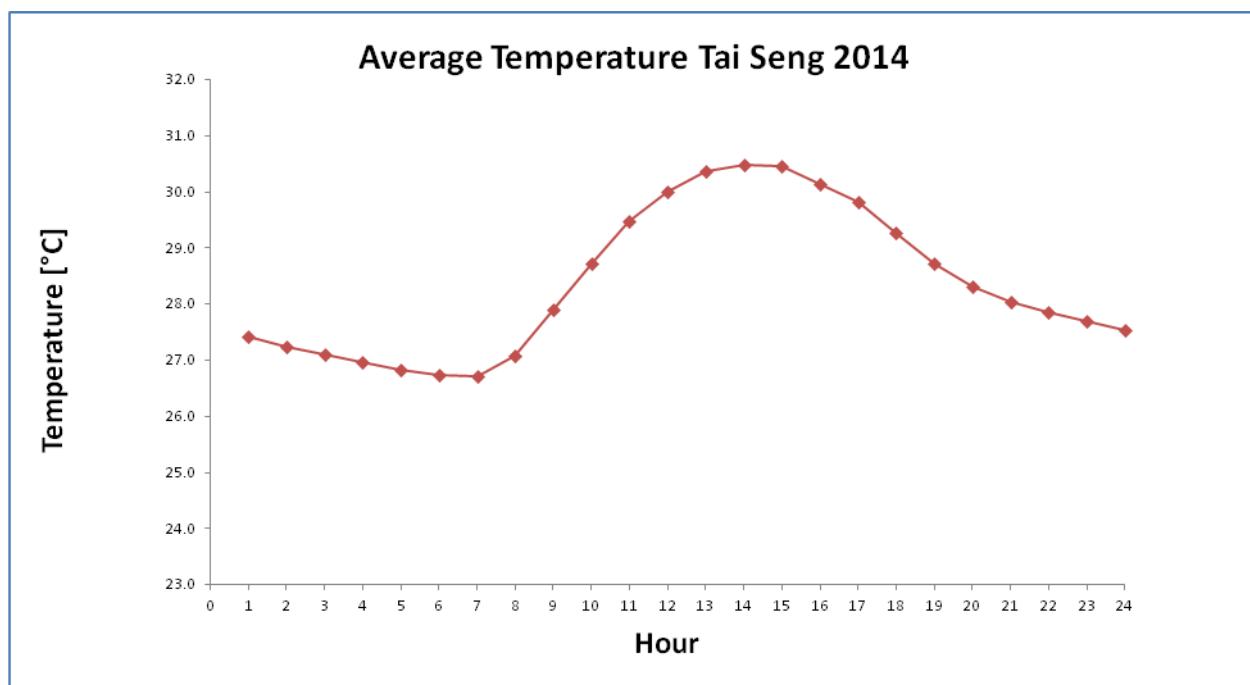
Hours	13	14	15	16	17	18	19	20	21	22	23	24
Min Dry Bulb Temperature (°C)	22.2	21.1	23.4	23.5	22.8	22.2	22.6	22.0	22.4	23.4	22.8	22.4
Max Dry Bulb Temperature (°C)	33.8	34.2	34.5	34.4	33.6	33.1	32.3	31.4	30.6	30.2	30.3	30.3
Average Dry Bulb Temperature (°C)	30.2	30.3	30.2	29.8	29.4	28.7	28.1	27.6	27.4	27.2	27.1	26.9
Average Dew Point Temperature (°C)	23.5	23.3	23.3	23.4	23.5	23.5	23.6	23.7	23.9	24.0	24.1	24.1
Min Relative Humidity (%)	39.8	41.1	37.8	41.0	37.2	39.8	38.7	53.1	62.8	63.6	68.2	68.7
Average Relative Humidity (%)	68.2	67.2	67.7	69.4	71.3	74.0	77.0	79.8	81.5	82.9	84.0	84.8
Average Wind Speed (m/s)	3.4	3.5	3.6	3.8	3.7	3.4	3.1	2.7	2.4	2.2	2.1	2.0
Max Gust (m/s)	19.6	14.7	17.1	12.4	11.9	14.1	11.3	10.8	10.9	13.8	8.9	17.2
Rainfall (mm)	137.0	104.0	140.8	116.0	61.6	141.8	25.4	74.8	35.4	28.0	58.2	52.0



- No Data
- Defective Data

S43 Tai Seng 2014

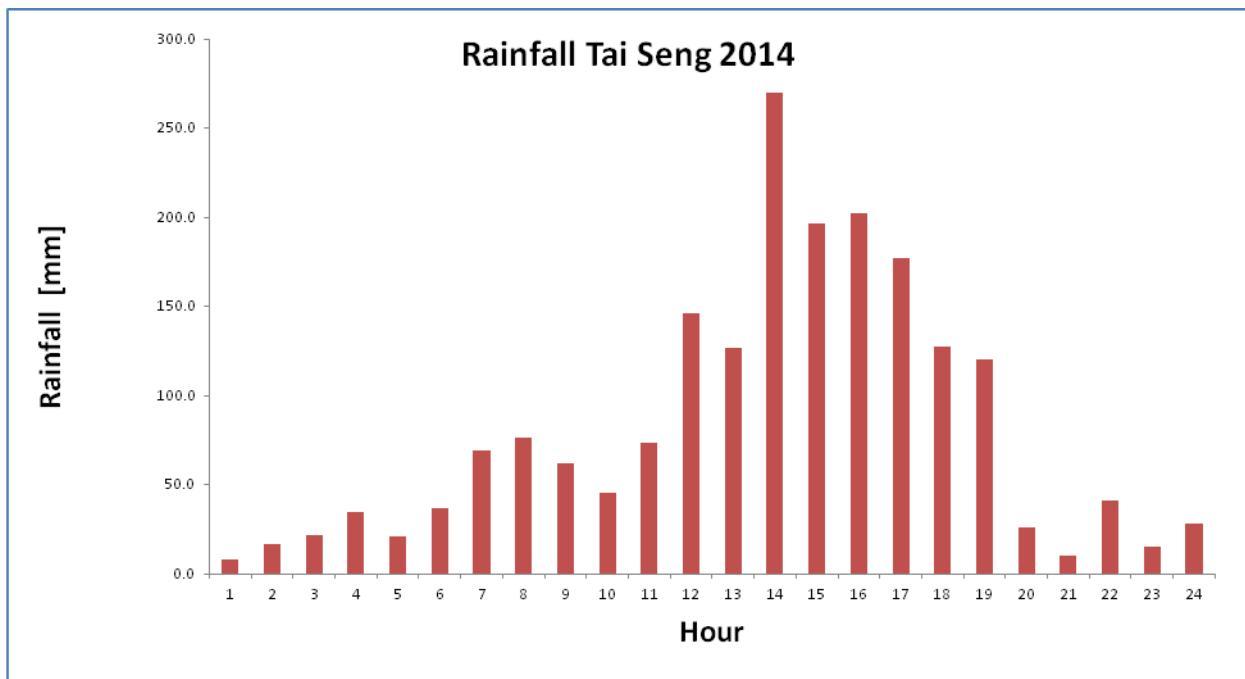
Hours	1	2	3	4	5	6	7	8	9	10	11	12
Min Dry Bulb Temperature (°C)	24.0	23.8	23.7	22.8	23.4	23.3	23.2	22.8	23.2	23.6	23.3	22.9
Max Dry Bulb Temperature (°C)	30.6	30.3	30.1	30.0	29.9	29.8	29.9	30.0	30.8	31.9	32.9	33.6
Average Dry Bulb Temperature (°C)	27.4	27.2	27.1	27.0	26.8	26.7	26.7	27.1	27.9	28.7	29.5	30.0
Average Dew Point Temperature (°C)	23.4	23.4	23.4	23.3	23.3	23.3	23.3	23.4	23.5	23.6	23.6	23.6
Min Relative Humidity (%)	—	—	—	—	—	—	—	—	—	—	—	—
Average Relative Humidity (%)	—	—	—	—	—	—	—	—	—	—	—	—
Average Wind Speed (m/s)	1.7	1.7	1.6	1.6	1.6	1.6	1.5	1.6	2.0	2.5	2.7	2.8
Max Gust (m/s)	9.6	11.4	12.5	14.1	11.7	9.4	22.2	18.7	18.9	11.4	12.7	13.5
Rainfall (mm)	8.0	16.2	21.4	34.4	21.2	36.8	68.8	76.2	61.6	45.4	73.6	146.4



- No Data
- Defective Data

S43 Tai Seng 2014

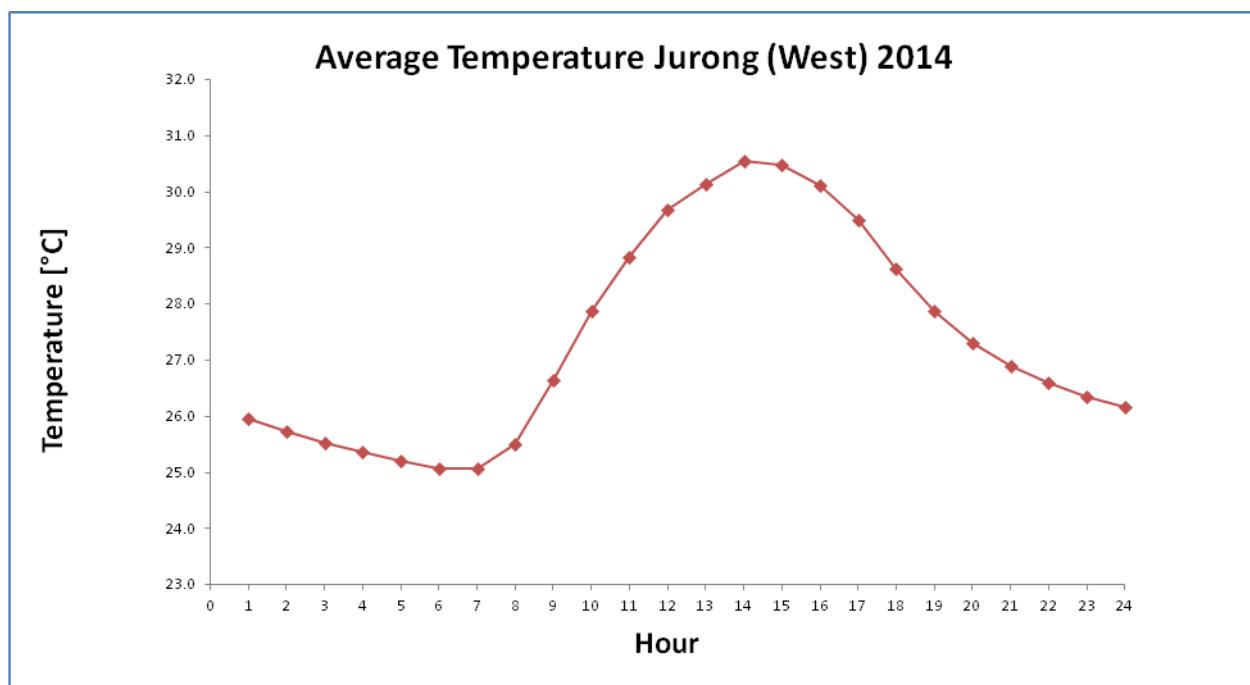
Hours	13	14	15	16	17	18	19	20	21	22	23	24
Min Dry Bulb Temperature (°C)	23.4	23.3	23.3	23.0	23.3	23.5	23.2	24.1	24.2	23.8	23.9	23.7
Max Dry Bulb Temperature (°C)	34.4	34.4	34.5	34.3	34.4	34.5	33.8	32.6	31.4	31.1	30.9	30.9
Average Dry Bulb Temperature (°C)	30.4	30.5	30.5	30.1	29.8	29.3	28.7	28.3	28.0	27.9	27.7	27.5
Average Dew Point Temperature (°C)	23.7	23.7	23.6	23.5	23.5	23.3	23.3	23.2	23.3	23.3	23.4	23.4
Min Relative Humidity (%)	—	—	—	—	—	—	—	—	—	—	—	—
Average Relative Humidity (%)	—	—	—	—	—	—	—	—	—	—	—	—
Average Wind Speed (m/s)	2.9	2.9	3.0	3.1	3.0	2.8	2.5	2.3	2.2	2.1	1.9	1.8
Max Gust (m/s)	13.9	32.2	33.0	18.7	27.5	19.1	17.6	11.4	10.0	9.5	9.4	10.0
Rainfall (mm)	127.0	269.6	196.4	202.4	177.0	127.2	120.4	26.2	9.8	41.2	14.8	28.4



- No Data
- Defective Data

S44 Jurong (West) 2014

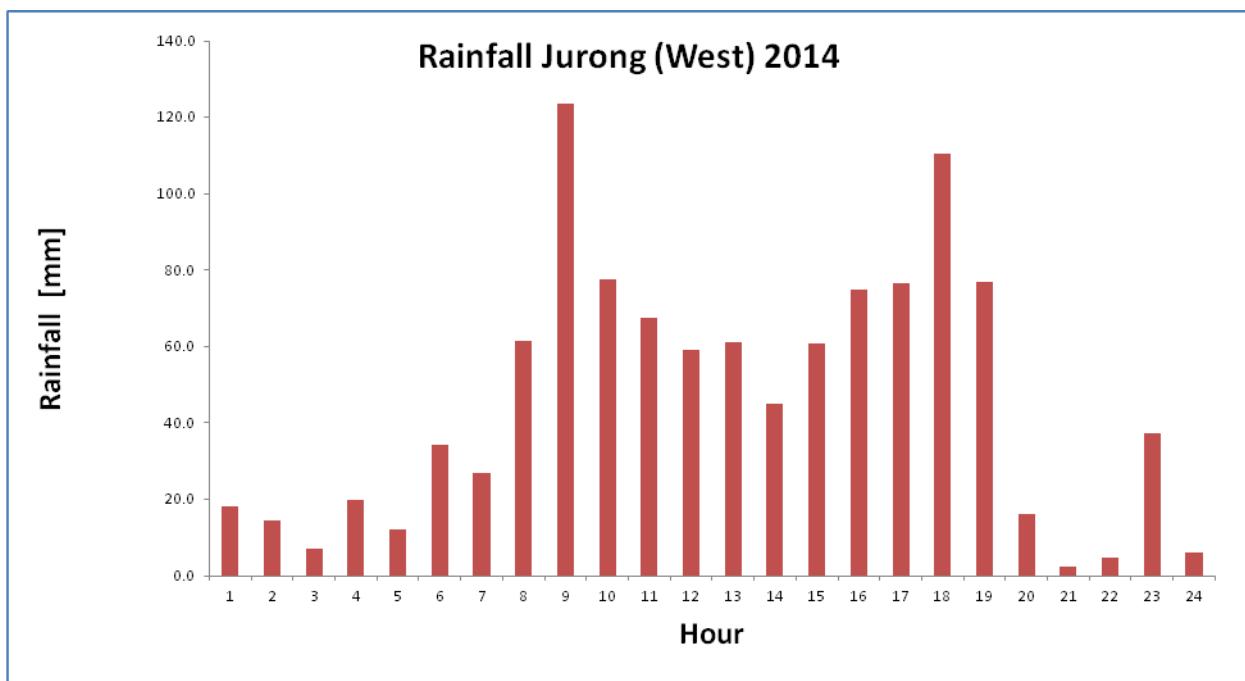
Hours	1	2	3	4	5	6	7	8	9	10	11	12
Min Dry Bulb Temperature (°C)	22.7	22.7	22.3	22.1	22.0	21.9	21.6	21.4	21.8	22.5	22.5	22.9
Max Dry Bulb Temperature (°C)	30.1	30.0	29.7	29.2	29.1	29.3	29.0	29.7	31.0	31.3	32.6	33.6
Average Dry Bulb Temperature (°C)	26.0	25.7	25.5	25.4	25.2	25.1	25.1	25.5	26.6	27.9	28.8	29.7
Average Dew Point Temperature (°C)	23.1	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	22.9	22.2	21.7
Min Relative Humidity (%)	70.2	69.7	71.3	70.0	70.3	69.0	68.6	63.6	63.5	57.8	44.2	39.4
Average Relative Humidity (%)	84.6	86.0	86.9	87.9	88.8	89.4	89.5	87.3	81.9	74.8	68.1	63.3
Average Wind Speed (m/s)	2.1	2.1	2.0	2.0	1.9	1.9	1.9	1.6	1.6	1.9	2.0	2.0
Max Gust (m/s)	8.0	9.1	14.7	11.1	8.7	8.5	14.5	10.9	12.7	12.6	11.9	10.7
Rainfall (mm)	18.0	14.4	7.0	19.8	12.0	34.2	26.8	61.6	123.6	77.6	67.4	59.2



- No Data
- Defective Data

S44 Jurong (West) 2014

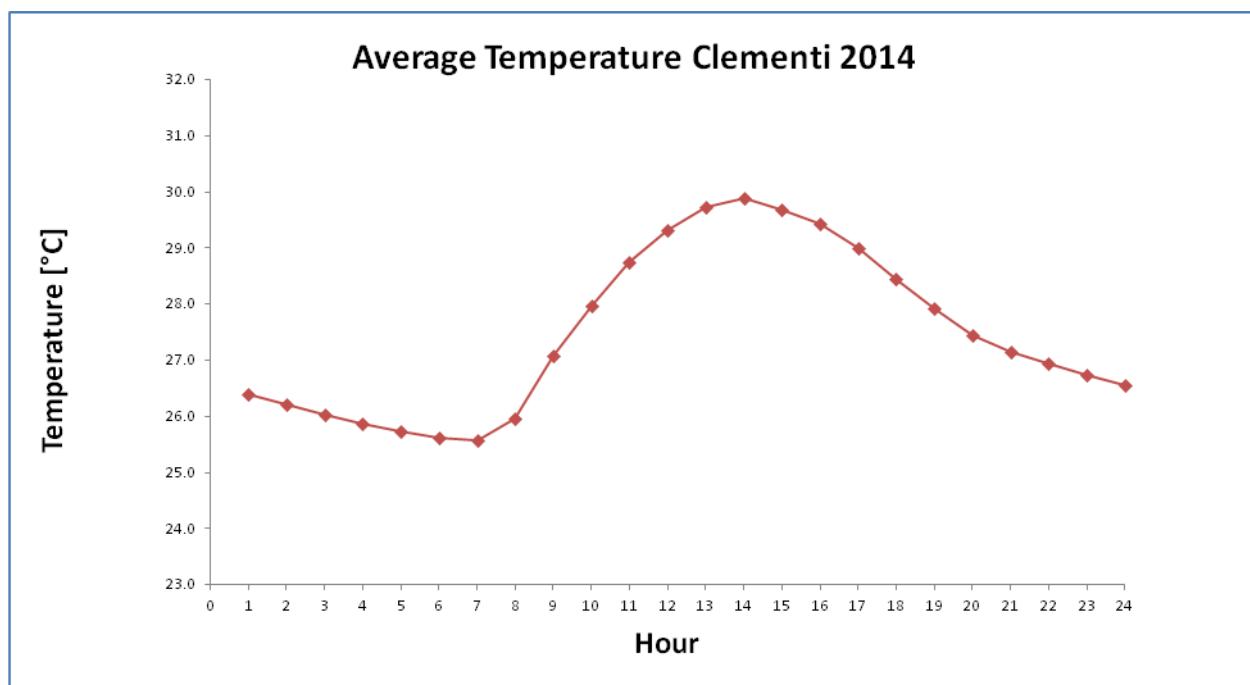
Hours	13	14	15	16	17	18	19	20	21	22	23	24
Min Dry Bulb Temperature (°C)	23.1	23.8	22.9	23.3	20.8	21.9	22.0	22.7	23.4	24.1	21.8	21.6
Max Dry Bulb Temperature (°C)	34.4	34.7	35.0	34.6	34.3	33.0	32.8	31.7	31.0	30.2	30.0	30.1
Average Dry Bulb Temperature (°C)	30.1	30.5	30.5	30.1	29.5	28.6	27.9	27.3	26.9	26.6	26.3	26.2
Average Dew Point Temperature (°C)	21.4	21.2	21.3	21.3	21.6	21.9	22.0	22.2	22.6	22.9	23.0	23.1
Min Relative Humidity (%)	36.0	33.2	30.1	30.1	30.0	32.8	40.7	45.4	51.3	56.7	59.9	62.3
Average Relative Humidity (%)	61.1	58.9	59.4	60.8	63.9	68.3	71.3	74.5	77.8	80.3	82.1	83.7
Average Wind Speed (m/s)	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1
Max Gust (m/s)	10.2	10.8	14.6	11.0	10.4	10.8	10.9	9.5	9.6	9.4	9.1	9.0
Rainfall (mm)	61.2	45.0	60.8	75.0	76.6	110.4	76.8	16.2	2.2	4.6	37.2	6.0



- No Data
- Defective Data

S50 Clementi 2014

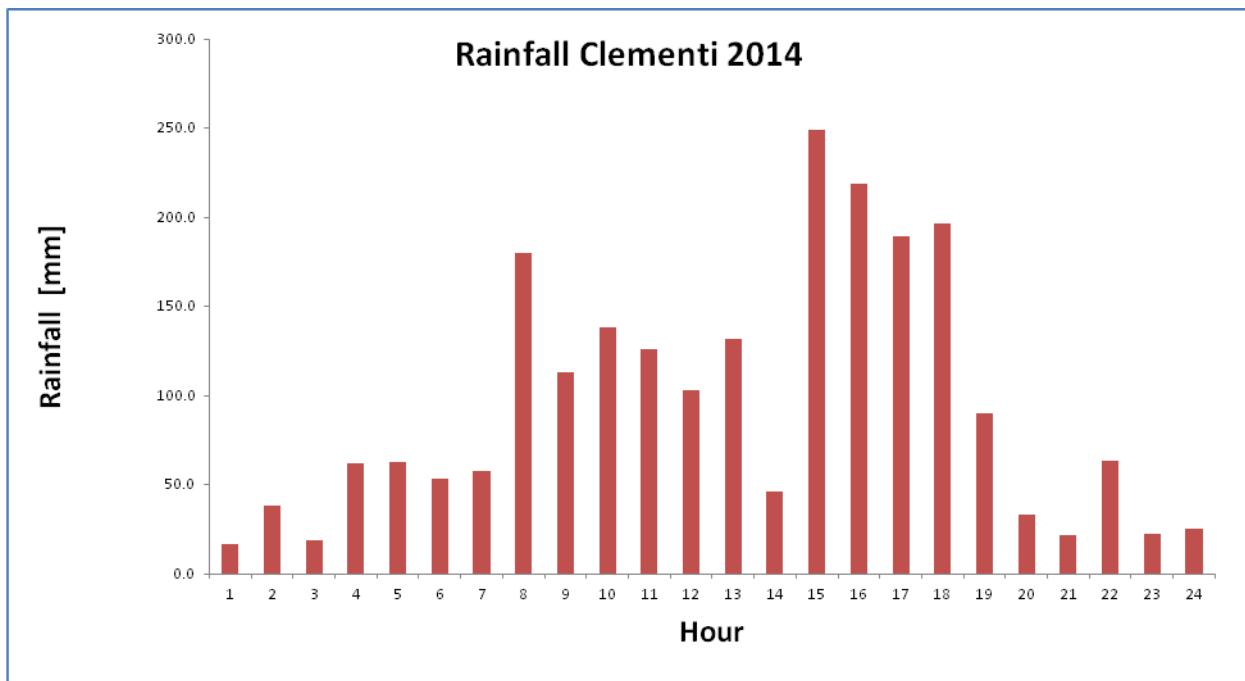
Hours	1	2	3	4	5	6	7	8	9	10	11	12
Min Dry Bulb Temperature (°C)	22.7	23.0	22.7	22.7	22.4	22.3	22.2	22.1	21.8	22.5	22.5	22.4
Max Dry Bulb Temperature (°C)	29.6	29.4	29.2	29.0	28.9	28.7	28.8	28.7	30.2	31.0	32.2	33.0
Average Dry Bulb Temperature (°C)	26.4	26.2	26.0	25.9	25.7	25.6	25.6	26.0	27.1	28.0	28.7	29.3
Average Dew Point Temperature (°C)	23.7	23.6	23.6	23.5	23.5	23.5	23.5	23.6	23.7	23.5	23.3	23.1
Min Relative Humidity (%)	71.3	65.8	64.6	70.7	73.5	76.1	76.4	74.4	66.0	60.3	54.4	48.7
Average Relative Humidity (%)	85.1	85.9	86.6	87.2	87.7	88.2	88.5	86.9	82.2	77.1	72.9	70.0
Average Wind Speed (m/s)	1.1	1.1	1.0	1.1	1.1	1.1	1.0	1.1	1.2	1.6	1.8	1.9
Max Gust (m/s)	9.9	10.3	11.1	10.1	12.8	10.8	9.6	9.7	12.0	11.2	12.0	11.4
Rainfall (mm)	16.4	38.0	18.6	61.8	62.8	53.2	57.6	180.2	113.0	138.4	125.8	102.8



- No Data
- Defective Data

S50 Clementi 2014

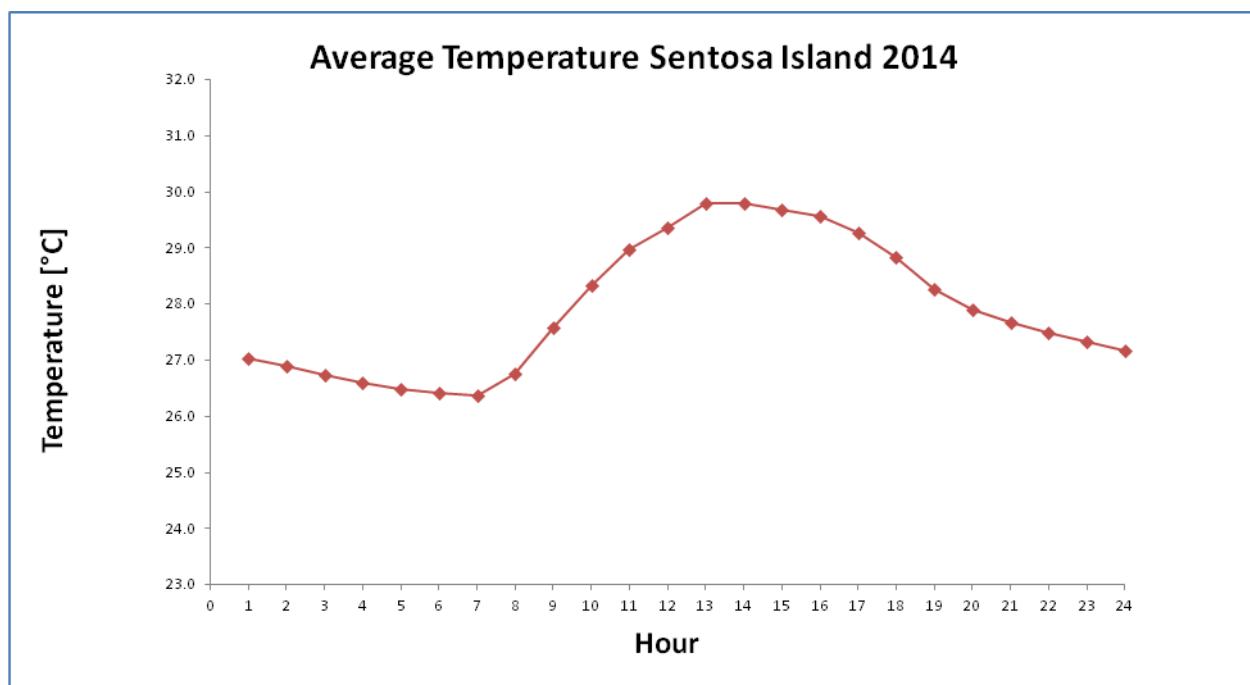
Hours	13	14	15	16	17	18	19	20	21	22	23	24
Min Dry Bulb Temperature (°C)	22.7	23.3	22.1	22.4	22.5	23.3	23.6	23.7	23.8	23.2	23.0	22.4
Max Dry Bulb Temperature (°C)	33.6	34.2	34.4	34.0	33.4	33.4	32.6	32.0	30.9	29.8	29.7	29.7
Average Dry Bulb Temperature (°C)	29.7	29.9	29.7	29.4	29.0	28.5	27.9	27.4	27.1	26.9	26.7	26.6
Average Dew Point Temperature (°C)	23.0	23.0	23.0	23.0	23.1	23.1	23.1	23.3	23.4	23.5	23.6	23.7
Min Relative Humidity (%)	44.6	36.6	31.5	32.5	33.6	45.2	46.6	46.9	50.4	62.2	69.0	71.6
Average Relative Humidity (%)	68.2	67.4	68.4	69.5	71.4	73.6	75.9	78.5	80.5	81.9	83.3	84.3
Average Wind Speed (m/s)	1.9	2.0	2.1	2.1	2.1	1.9	1.7	1.5	1.4	1.4	1.3	1.2
Max Gust (m/s)	12.6	13.1	11.2	12.6	12.1	11.4	10.3	10.1	9.2	10.2	10.0	10.0
Rainfall (mm)	131.6	45.8	249.2	218.6	189.6	196.6	90.2	33.0	21.8	63.2	22.6	25.0



- No Data
- Defective Data

S60 Sentosa Island 2014

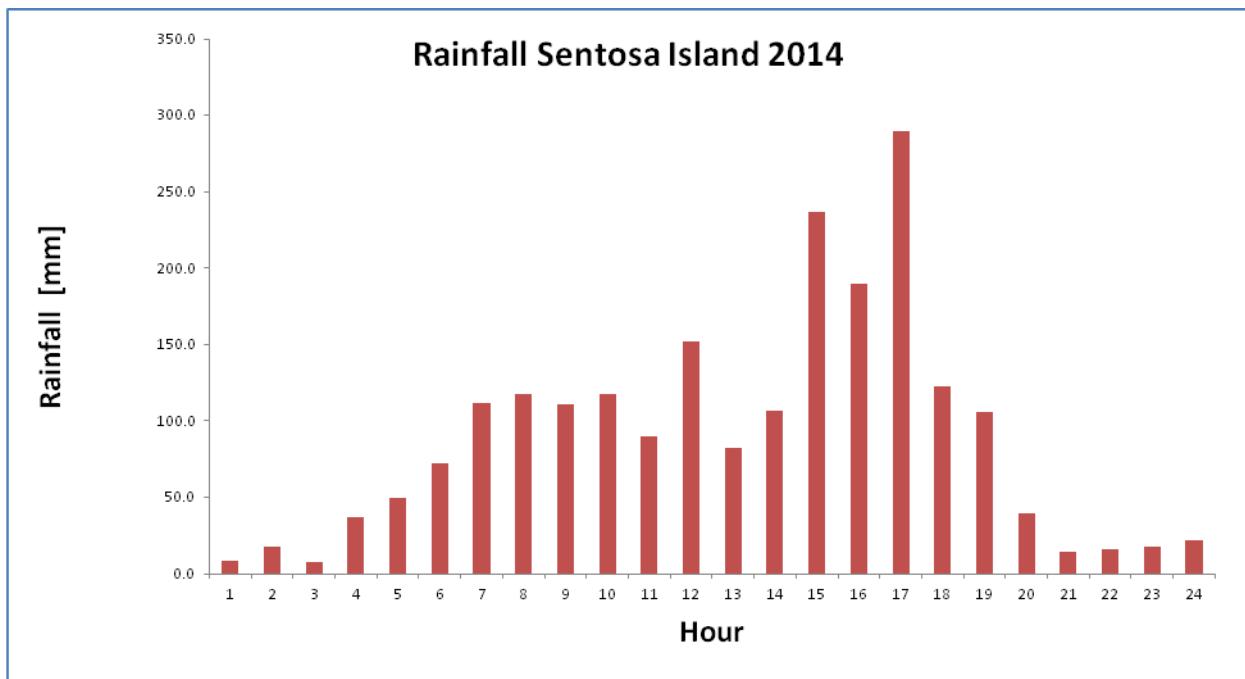
Hours	1	2	3	4	5	6	7	8	9	10	11	12
Min Dry Bulb Temperature (°C)	23.8	24.0	23.8	21.9	23.3	22.6	22.6	22.7	21.7	21.5	22.7	23.2
Max Dry Bulb Temperature (°C)	29.5	29.2	29.0	29.0	29.1	29.0	29.1	29.7	30.6	31.5	32.0	32.6
Average Dry Bulb Temperature (°C)	27.0	26.9	26.7	26.6	26.5	26.4	26.4	26.8	27.6	28.3	29.0	29.4
Average Dew Point Temperature (°C)	23.6	23.6	23.6	23.6	23.7	23.7	23.7	23.6	23.4	23.0	22.7	22.4
Min Relative Humidity (%)	62.8	56.2	55.0	67.2	66.5	67.2	65.7	65.7	53.6	47.0	40.0	36.4
Average Relative Humidity (%)	81.6	82.3	83.3	84.1	84.7	85.1	85.5	83.3	78.2	73.3	69.6	67.2
Average Wind Speed (m/s)	1.5	1.5	1.4	1.4	1.4	1.4	1.4	1.5	1.7	2.0	2.1	2.2
Max Gust (m/s)	11.0	10.1	14.4	14.2	11.6	14.0	11.9	11.5	12.8	13.2	13.1	11.9
Rainfall (mm)	8.0	17.8	7.2	37.0	49.8	72.6	111.4	117.2	110.6	117.4	89.6	152.0



- No Data
- Defective Data

S60 Sentosa Island 2014

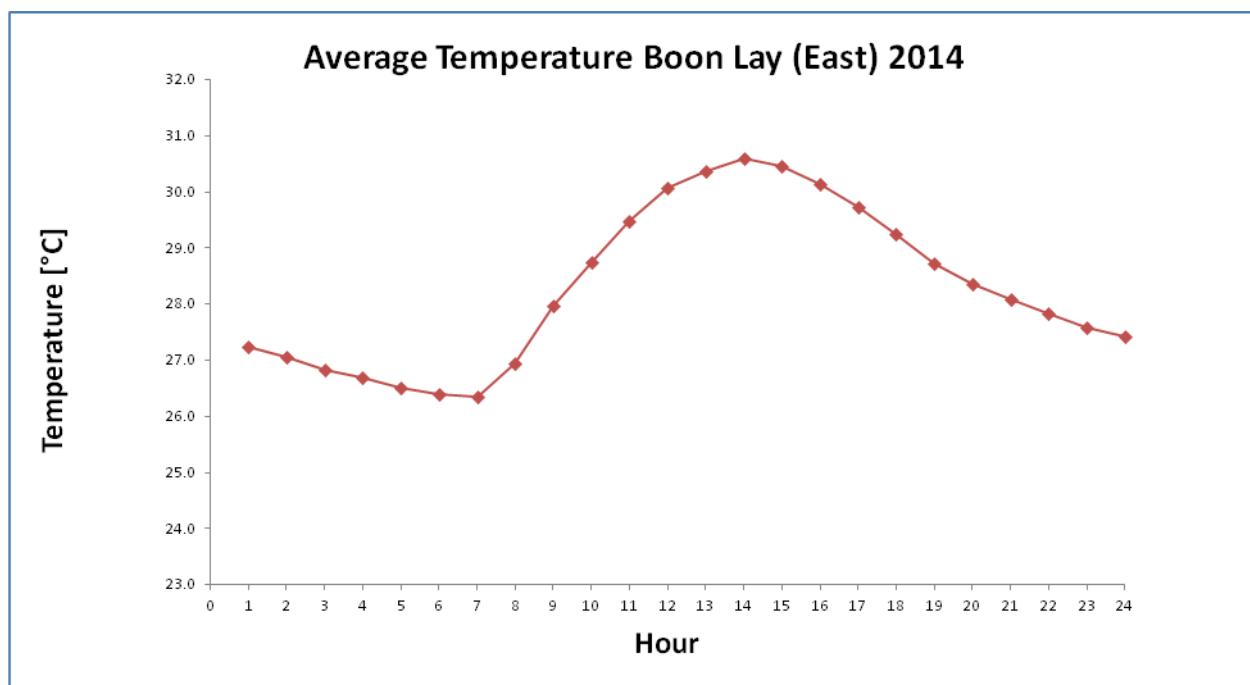
Hours	13	14	15	16	17	18	19	20	21	22	23	24
Min Dry Bulb Temperature (°C)	23.3	23.3	22.5	22.6	23.6	23.8	23.3	23.5	24.2	24.2	23.9	23.7
Max Dry Bulb Temperature (°C)	33.2	33.7	33.9	33.7	33.3	33.3	32.6	31.4	30.5	30.1	30.0	30.0
Average Dry Bulb Temperature (°C)	29.8	29.8	29.7	29.6	29.3	28.8	28.3	27.9	27.7	27.5	27.3	27.2
Average Dew Point Temperature (°C)	22.3	22.2	22.3	22.3	22.3	22.4	22.6	22.8	23.1	23.3	23.4	23.5
Min Relative Humidity (%)	32.6	30.4	30.0	30.0	32.6	36.2	36.4	34.0	48.4	54.0	57.9	61.7
Average Relative Humidity (%)	65.2	65.0	65.7	66.2	67.4	69.3	72.2	74.3	76.5	78.2	79.5	80.8
Average Wind Speed (m/s)	2.3	2.4	2.4	2.4	2.3	2.1	1.9	1.8	1.8	1.7	1.6	1.5
Max Gust (m/s)	10.8	13.4	11.6	11.1	13.0	11.0	11.3	10.2	10.0	10.1	10.6	9.8
Rainfall (mm)	82.2	106.6	237.0	190.2	289.6	122.2	106.2	39.8	14.4	15.6	17.4	22.0



- No Data
- Defective Data

S86 Boon Lay (East) 2014

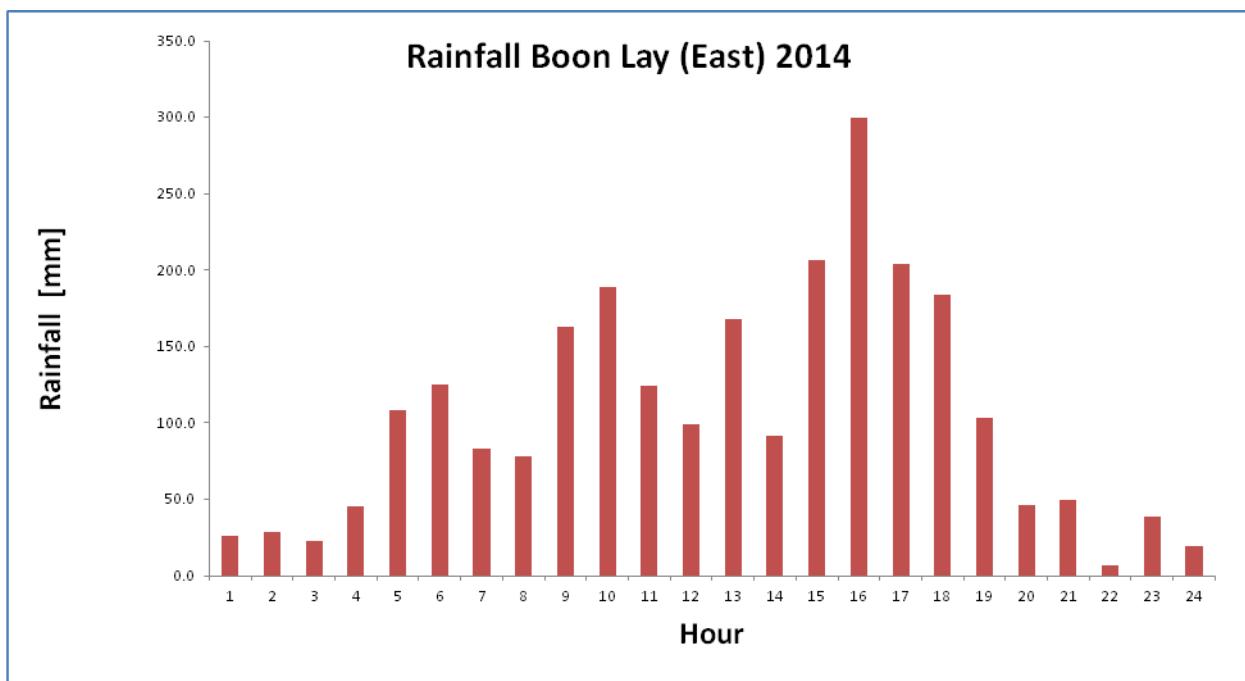
Hours	1	2	3	4	5	6	7	8	9	10	11	12
Min Dry Bulb Temperature (°C)	23.7	24.0	23.1	20.4	22.6	22.5	22.4	22.7	22.6	23.2	23.0	22.6
Max Dry Bulb Temperature (°C)	30.9	30.4	30.1	29.8	29.6	29.6	29.7	30.3	31.5	32.3	33.3	34.4
Average Dry Bulb Temperature (°C)	27.2	27.1	26.8	26.7	26.5	26.4	26.3	26.9	28.0	28.8	29.5	30.1
Average Dew Point Temperature (°C)	24.0	24.1	24.1	24.1	24.1	24.2	24.1	24.1	23.9	23.5	23.0	22.6
Min Relative Humidity (%)	66.8	63.1	63.4	66.3	69.7	70.2	69.2	60.6	60.1	51.1	46.6	42.3
Average Relative Humidity (%)	83.0	84.1	85.3	86.1	87.2	87.8	87.9	84.7	79.1	73.8	68.9	65.3
Average Wind Speed (m/s)	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.6	2.1	2.4	2.6
Max Gust (m/s)	13.8	11.5	19.8	15.0	14.6	18.0	13.2	13.0	15.7	16.7	11.9	12.0
Rainfall (mm)	26.2	28.4	22.6	45.4	108.2	124.8	83.4	78.2	163.2	188.8	124.2	98.8



- No Data
- Defective Data

S86 Boon Lay (East) 2014

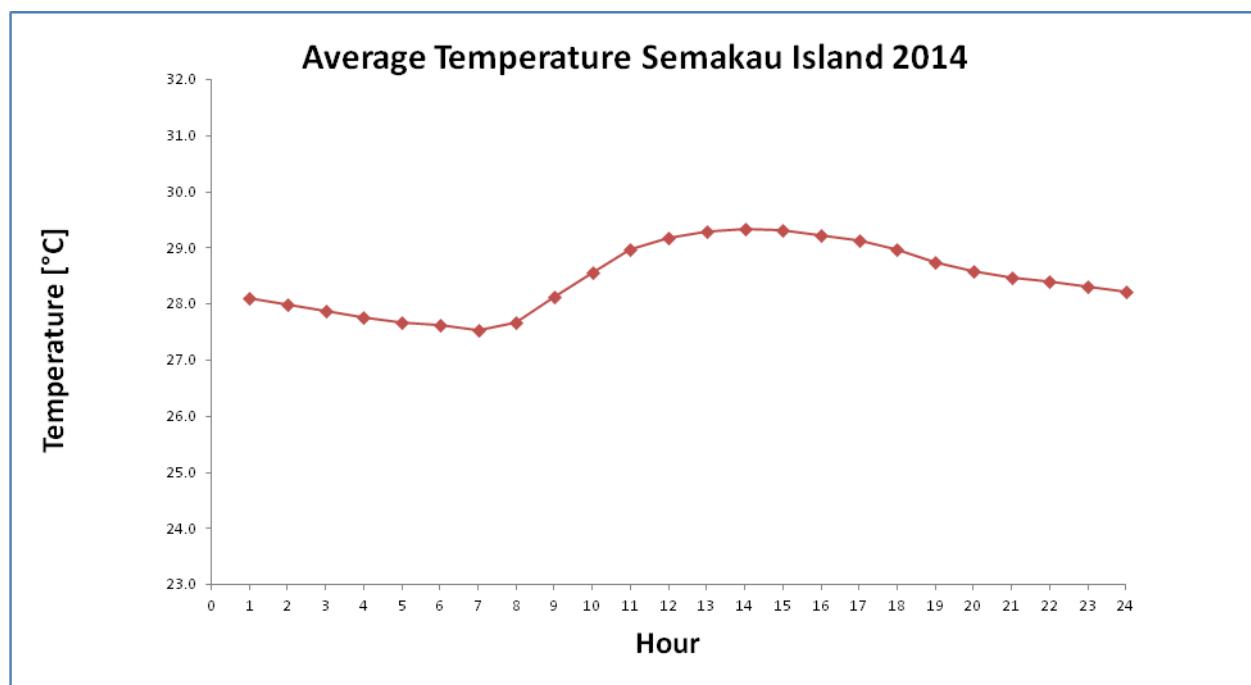
Hours	13	14	15	16	17	18	19	20	21	22	23	24
Min Dry Bulb Temperature (°C)	23.1	23.9	22.8	23.1	21.5	23.2	23.3	23.5	22.8	24.0	22.7	22.5
Max Dry Bulb Temperature (°C)	34.6	34.9	34.9	34.8	34.2	33.7	33.2	32.5	31.9	31.1	31.0	30.8
Average Dry Bulb Temperature (°C)	30.4	30.6	30.5	30.1	29.7	29.3	28.7	28.4	28.1	27.8	27.6	27.4
Average Dew Point Temperature (°C)	22.5	22.4	22.4	22.5	22.6	22.8	22.9	23.1	23.4	23.6	23.8	24.0
Min Relative Humidity (%)	38.7	33.2	30.0	30.2	30.0	33.0	41.7	44.2	50.8	56.0	59.1	62.7
Average Relative Humidity (%)	63.7	62.8	63.4	65.0	67.0	69.3	71.8	74.2	76.2	78.3	80.3	81.7
Average Wind Speed (m/s)	2.7	2.8	2.9	2.9	2.7	2.5	2.1	1.9	1.7	1.6	1.5	1.5
Max Gust (m/s)	12.3	23.8	11.8	20.0	18.1	17.4	10.5	10.9	12.4	12.0	10.9	13.4
Rainfall (mm)	167.8	91.4	206.2	300.1	204.2	183.6	103.0	45.8	49.2	6.8	39.0	19.0



- No Data
- Defective Data

S102 Semakau Island 2014

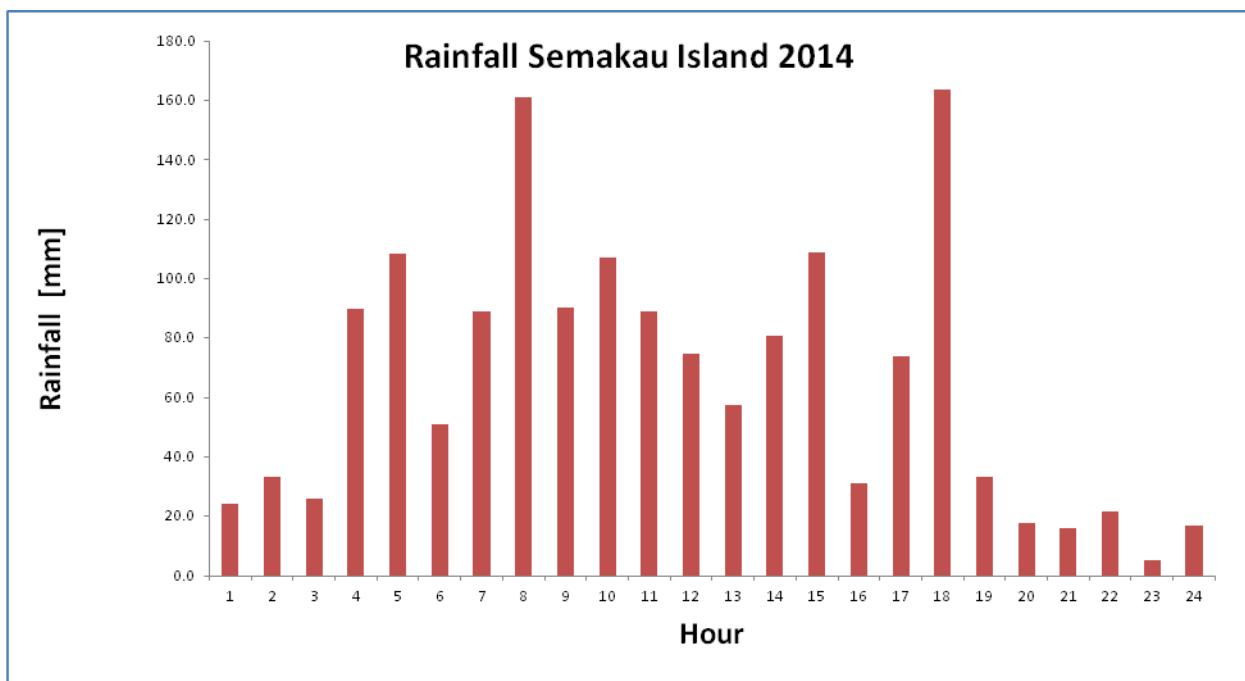
Hours	1	2	3	4	5	6	7	8	9	10	11	12
Min Dry Bulb Temperature (°C)	24.6	24.7	24.2	23.5	23.7	23.6	23.6	22.6	23.0	23.6	23.4	23.7
Max Dry Bulb Temperature (°C)	30.2	30.1	29.8	29.8	29.8	29.9	30.0	30.1	31.1	31.7	32.6	32.4
Average Dry Bulb Temperature (°C)	28.1	28.0	27.9	27.8	27.7	27.6	27.5	27.7	28.1	28.6	29.0	29.2
Average Dew Point Temperature (°C)	24.3	24.3	24.3	24.4	24.4	24.4	24.4	24.4	24.2	24.0	23.8	23.7
Min Relative Humidity (%)	64.2	62.3	64.3	66.5	63.3	63.3	65.2	67.6	60.0	54.2	40.2	43.3
Average Relative Humidity (%)	79.8	80.5	81.3	81.9	82.6	83.0	83.5	82.5	79.7	77.0	74.0	73.2
Average Wind Speed (m/s)	3.7	3.5	3.4	3.5	3.5	3.6	3.6	3.8	3.8	3.8	3.8	3.9
Max Gust (m/s)	18.3	16.4	26.2	22.6	22.8	19.7	21.6	18.5	20.4	19.9	19.4	15.5
Rainfall (mm)	24.4	33.4	25.8	90.0	108.2	51.0	89.0	161.2	90.4	107.1	89.0	74.8



- No Data
- Defective Data

S102 Semakau Island 2014

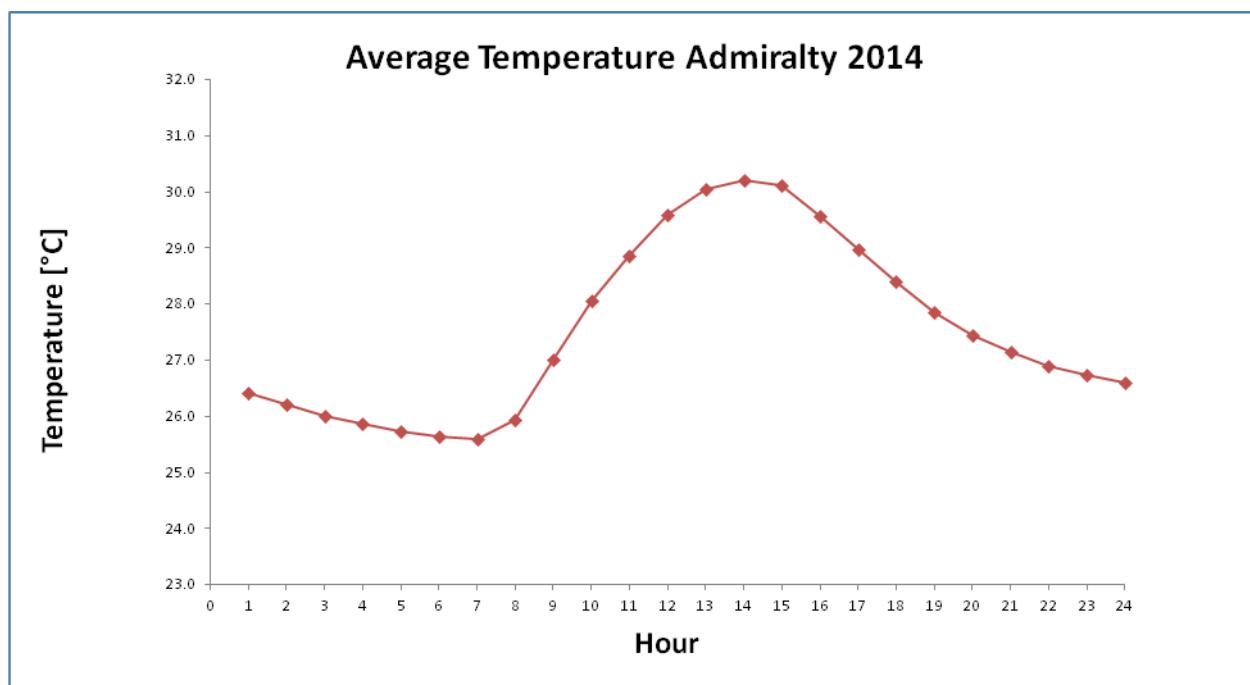
Hours	13	14	15	16	17	18	19	20	21	22	23	24
Min Dry Bulb Temperature (°C)	24.7	24.1	23.1	23.7	24.1	23.4	24.0	24.7	25.0	24.6	24.7	24.2
Max Dry Bulb Temperature (°C)	33.1	32.9	32.8	33.0	32.4	31.9	31.7	31.2	30.6	30.4	30.5	30.4
Average Dry Bulb Temperature (°C)	29.3	29.3	29.3	29.2	29.1	29.0	28.8	28.6	28.5	28.4	28.3	28.2
Average Dew Point Temperature (°C)	23.7	23.6	23.6	23.6	23.6	23.6	23.6	23.8	24.0	24.1	24.2	24.2
Min Relative Humidity (%)	42.9	45.8	44.5	45.7	46.0	45.3	49.4	49.2	53.0	59.8	63.3	64.2
Average Relative Humidity (%)	72.3	71.9	71.6	72.3	72.6	73.4	74.0	75.6	76.8	77.9	78.6	79.1
Average Wind Speed (m/s)	4.0	4.2	4.3	4.4	4.4	4.3	4.3	4.4	4.3	4.1	4.0	3.8
Max Gust (m/s)	13.1	21.9	15.0	14.9	17.9	19.0	15.6	14.2	13.4	13.9	13.9	12.6
Rainfall (mm)	57.6	80.6	109.0	31.2	74.0	163.6	33.4	17.8	16.0	21.8	5.4	17.0



- No Data
- Defective Data

S104 Admiralty 2014

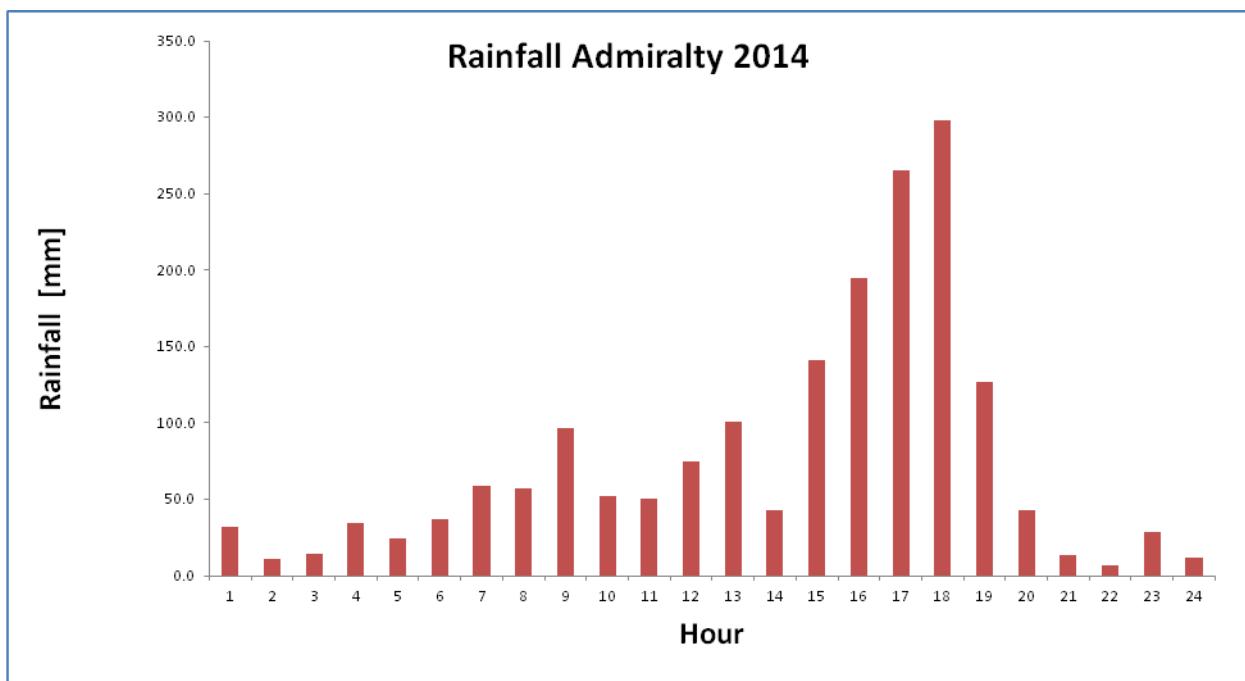
Hours	1	2	3	4	5	6	7	8	9	10	11	12
Min Dry Bulb Temperature (°C)	23.0	22.9	22.4	22.4	22.4	22.3	21.8	21.8	22.0	23.0	22.9	23.5
Max Dry Bulb Temperature (°C)	30.1	29.9	29.6	29.2	29.0	28.9	28.6	29.1	30.6	31.7	33.3	33.7
Average Dry Bulb Temperature (°C)	26.4	26.2	26.0	25.9	25.7	25.6	25.6	25.9	27.0	28.1	28.9	29.6
Average Dew Point Temperature (°C)	25.1	25.1	25.1	25.0	25.0	25.0	24.9	24.9	25.0	24.7	24.2	23.7
Min Relative Humidity (%)	70.2	75.9	80.5	82.6	78.9	79.4	77.9	74.1	76.1	63.5	53.4	48.2
Average Relative Humidity (%)	92.7	93.8	94.6	95.2	95.7	96.0	96.2	94.4	89.0	82.4	76.6	71.7
Average Wind Speed (m/s)	1.9	1.9	1.8	1.7	1.7	1.7	1.7	1.6	1.7	2.2	2.4	2.6
Max Gust (m/s)	11.2	12.7	16.8	12.5	11.5	13.6	16.2	17.4	14.8	16.3	11.7	14.0
Rainfall (mm)	31.8	10.6	14.6	34.8	24.0	37.0	59.0	57.0	96.4	52.2	50.8	74.8



- No Data
- Defective Data

S104 Admiralty 2014

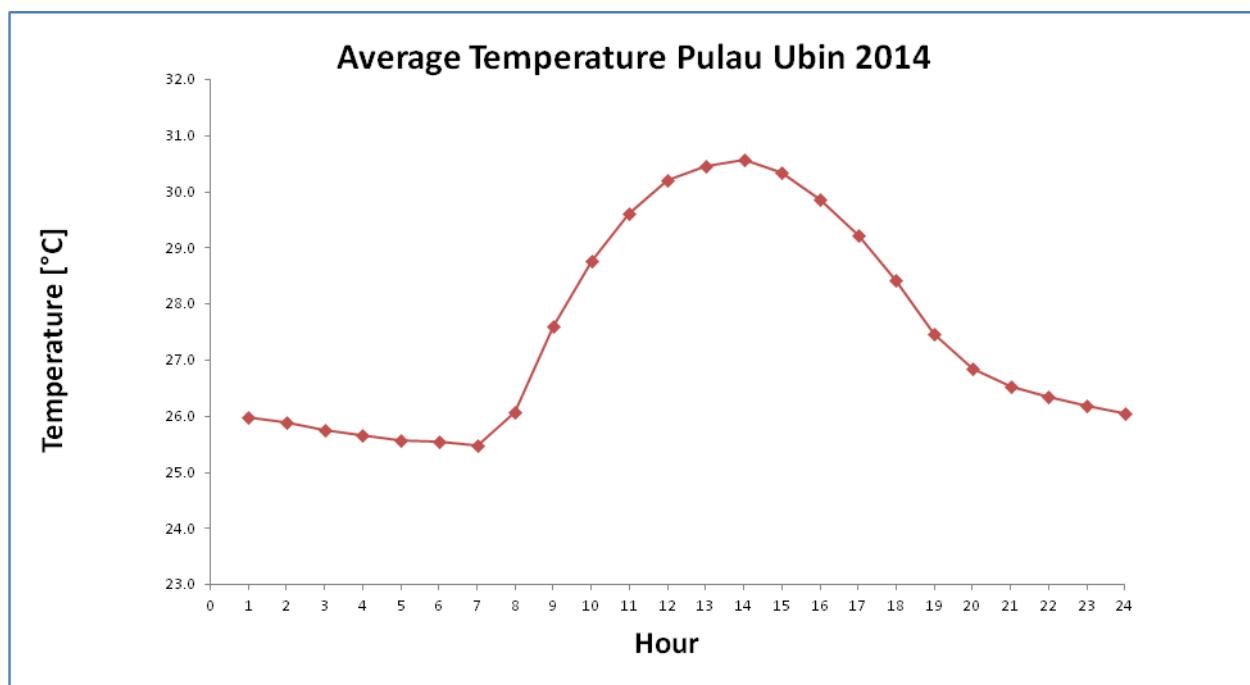
Hours	13	14	15	16	17	18	19	20	21	22	23	24
Min Dry Bulb Temperature (°C)	23.1	23.8	23.9	23.0	22.4	23.0	23.5	23.4	23.8	23.5	22.7	23.3
Max Dry Bulb Temperature (°C)	34.2	34.9	35.8	35.7	34.5	33.5	32.9	32.2	31.5	30.8	30.2	30.1
Average Dry Bulb Temperature (°C)	30.0	30.2	30.1	29.6	29.0	28.4	27.9	27.5	27.2	26.9	26.7	26.6
Average Dew Point Temperature (°C)	23.5	23.3	23.3	23.6	23.7	23.9	24.1	24.4	24.7	24.8	25.0	25.0
Min Relative Humidity (%)	43.0	33.6	33.3	31.6	33.5	43.7	50.4	55.4	57.5	61.6	68.3	67.4
Average Relative Humidity (%)	69.1	68.0	68.6	71.8	74.7	77.9	81.2	84.2	86.8	88.8	90.3	91.4
Average Wind Speed (m/s)	2.6	2.7	2.8	3.0	3.1	2.9	2.6	2.4	2.3	2.2	2.1	2.0
Max Gust (m/s)	15.0	13.6	12.9	13.9	22.2	19.2	12.0	10.8	10.0	12.2	9.9	13.9
Rainfall (mm)	100.4	43.0	140.7	194.9	265.3	298.3	127.1	42.8	13.4	7.0	28.2	11.8



- No Data
- Defective Data

S106 Pulau Ubin 2014

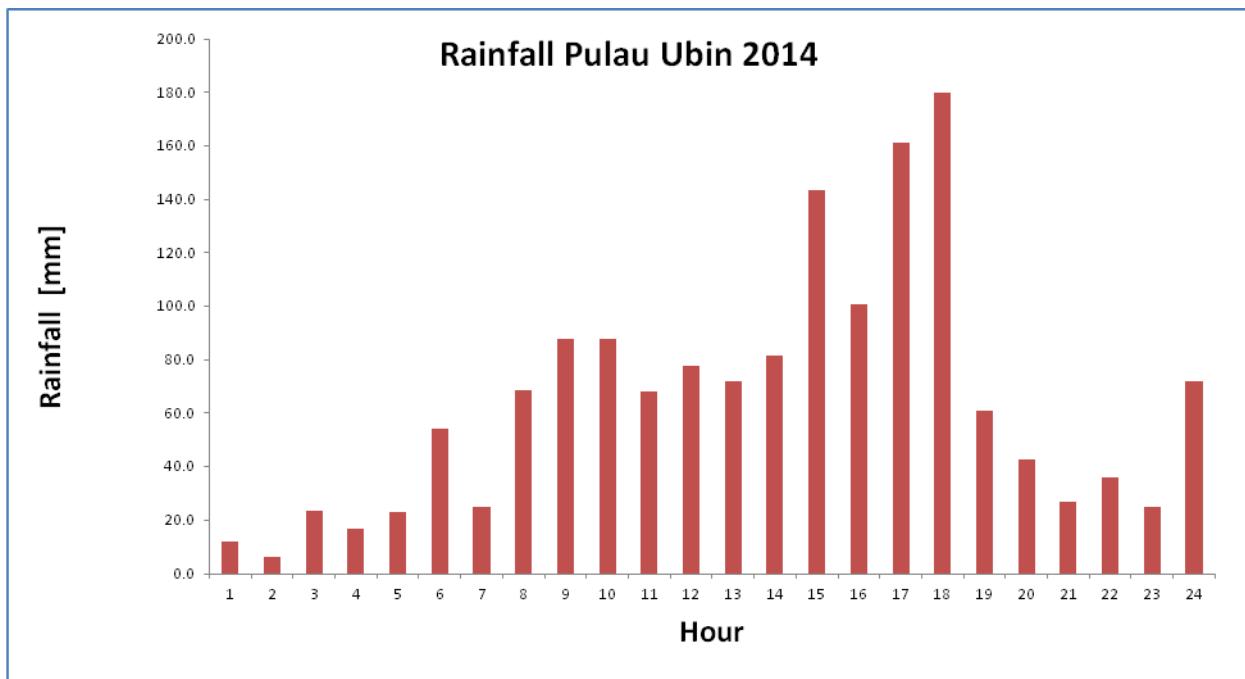
Hours	1	2	3	4	5	6	7	8	9	10	11	12
Min Dry Bulb Temperature (°C)	23.2	23.1	22.9	22.9	22.9	22.8	22.4	22.1	22.3	23.4	23.3	23.3
Max Dry Bulb Temperature (°C)	28.8	28.6	28.4	28.1	27.8	27.8	27.9	28.3	30.7	32.1	32.8	33.8
Average Dry Bulb Temperature (°C)	26.0	25.9	25.8	25.7	25.6	25.5	25.5	26.1	27.6	28.8	29.6	30.2
Average Dew Point Temperature (°C)	25.5	25.5	25.5	25.5	25.4	25.4	25.3	25.8	26.0	25.7	25.5	25.2
Min Relative Humidity (%)	82.6	77.5	70.7	82.7	86.8	84.5	84.6	82.2	75.0	67.3	60.0	52.3
Average Relative Humidity (%)	97.4	97.8	98.4	98.8	98.9	98.9	99.1	98.4	91.0	83.7	79.1	75.5
Average Wind Speed (m/s)	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.0	1.3	1.5	1.5
Max Gust (m/s)	9.7	9.3	13.1	12.8	11.6	12.2	13.1	12.4	15.8	13.0	14.4	10.0
Rainfall (mm)	11.9	6.3	23.4	16.8	23.1	54.3	25.0	68.8	87.9	87.8	68.3	77.5



- No Data
- Defective Data

S106 Pulau Ubin 2014

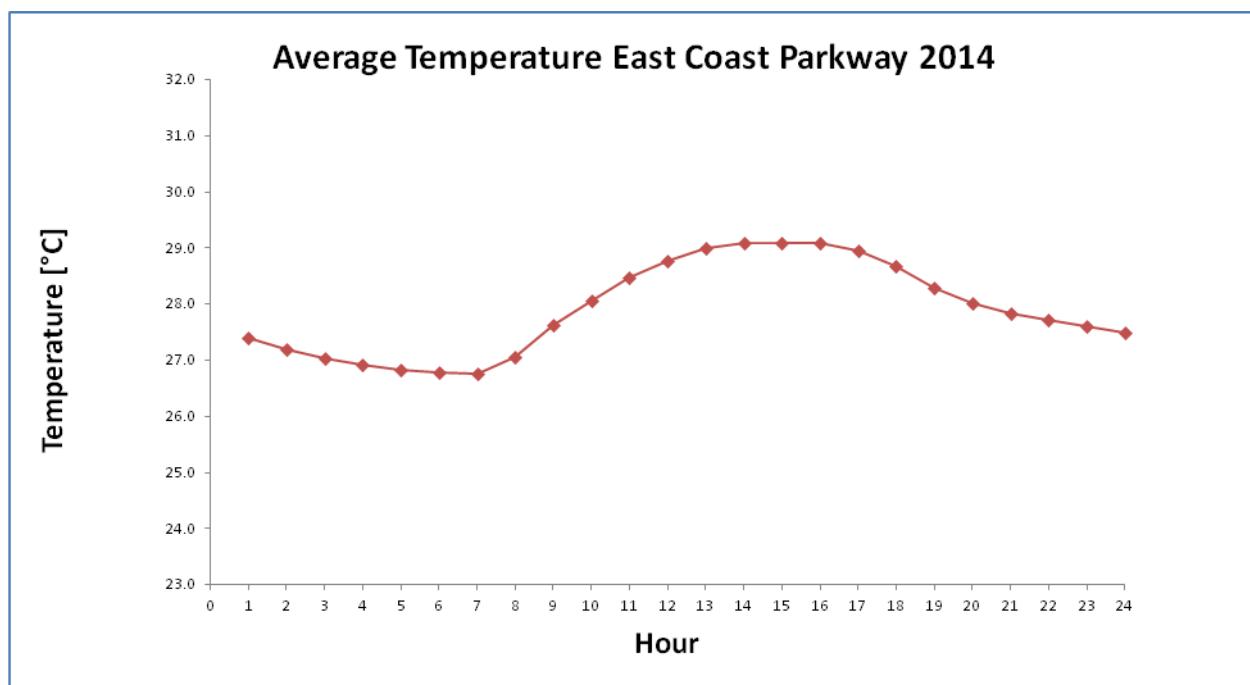
Hours	13	14	15	16	17	18	19	20	21	22	23	24
Min Dry Bulb Temperature (°C)	23.0	21.7	23.3	23.4	23.2	22.7	23.5	23.5	23.1	23.1	23.3	22.7
Max Dry Bulb Temperature (°C)	34.4	34.7	34.8	34.8	34.4	33.8	32.3	30.4	29.4	29.1	29.0	28.9
Average Dry Bulb Temperature (°C)	30.5	30.6	30.3	29.9	29.2	28.4	27.5	26.8	26.5	26.4	26.2	26.1
Average Dew Point Temperature (°C)	25.1	25.0	25.0	25.1	25.1	25.1	25.0	25.1	25.2	25.4	25.5	25.5
Min Relative Humidity (%)	47.8	41.7	43.6	44.6	44.4	48.5	43.8	63.0	70.6	75.6	79.1	79.9
Average Relative Humidity (%)	74.1	73.4	74.5	76.7	79.3	82.8	86.9	90.4	92.8	94.5	95.9	96.8
Average Wind Speed (m/s)	1.6	1.6	1.6	1.6	1.5	1.3	1.2	1.0	1.0	0.9	0.9	0.8
Max Gust (m/s)	11.8	11.9	10.4	27.6	14.6	20.1	22.6	10.2	10.6	9.8	8.7	12.0
Rainfall (mm)	72.2	81.7	143.4	100.8	161.4	179.8	60.8	42.8	26.8	35.8	24.9	72.2



- No Data
- Defective Data

S107 East Coast Parkway 2014

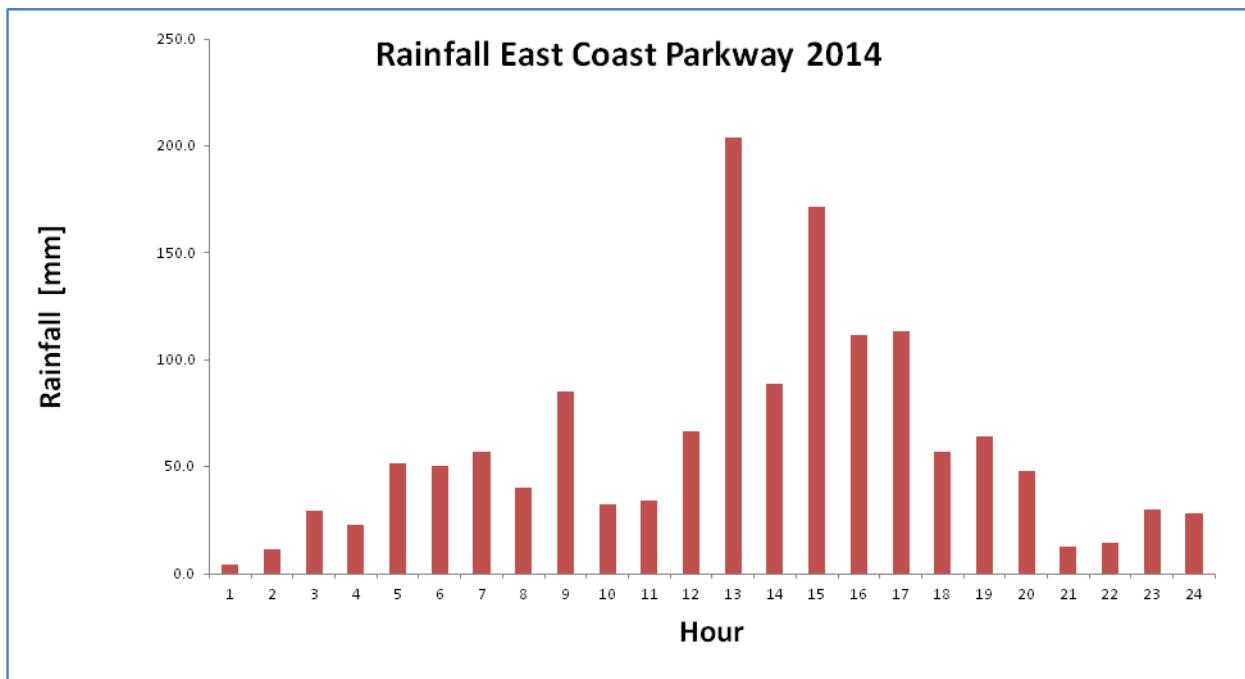
Hours	1	2	3	4	5	6	7	8	9	10	11	12
Min Dry Bulb Temperature (°C)	23.8	23.9	21.1	23.5	23.3	23.2	23.2	23.1	23.0	23.3	23.6	23.4
Max Dry Bulb Temperature (°C)	30.2	30.1	30.0	29.8	29.8	29.8	29.8	30.0	30.3	30.7	31.6	31.8
Average Dry Bulb Temperature (°C)	27.4	27.2	27.0	26.9	26.8	26.8	26.8	27.1	27.6	28.1	28.5	28.8
Average Dew Point Temperature (°C)	23.7	23.8	23.8	23.8	23.8	23.7	23.8	23.7	23.5	23.3	23.1	23.0
Min Relative Humidity (%)	64.8	58.0	51.5	65.6	65.7	61.8	65.3	64.8	62.5	56.6	51.1	46.6
Average Relative Humidity (%)	80.7	81.9	82.7	83.2	83.6	83.6	83.8	81.9	78.4	75.4	73.2	71.4
Average Wind Speed (m/s)	2.4	2.2	2.2	2.2	2.2	2.3	2.3	2.4	2.6	3.0	3.2	3.5
Max Gust (m/s)	10.9	18.5	17.8	20.1	16.4	14.7	15.4	13.1	17.6	13.6	14.2	14.8
Rainfall (mm)	4.2	11.4	29.6	23.0	51.6	50.6	56.8	40.2	85.2	32.2	34.2	66.4



- No Data
- Defective Data

S107 East Coast Parkway 2014

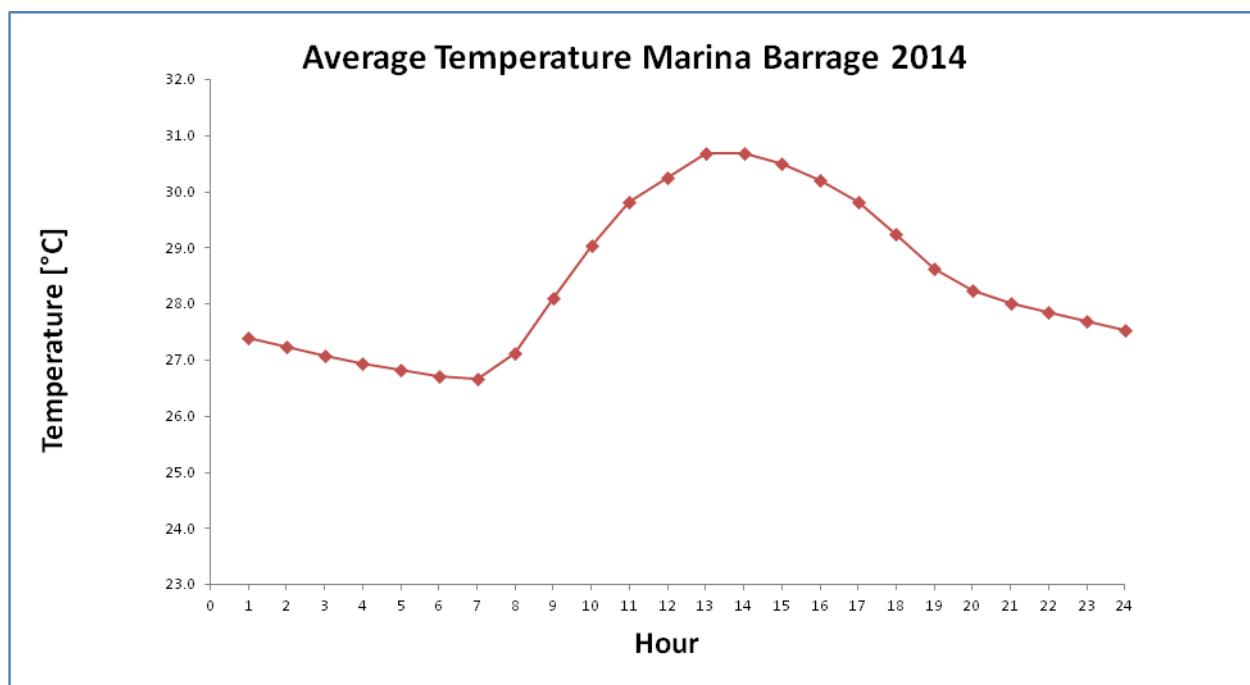
Hours	13	14	15	16	17	18	19	20	21	22	23	24
Min Dry Bulb Temperature (°C)	23.5	22.3	23.0	22.1	21.3	23.0	24.1	24.4	24.4	24.1	24.3	23.3
Max Dry Bulb Temperature (°C)	32.5	33.2	32.5	32.6	32.2	31.9	31.8	31.7	31.1	30.8	30.8	30.6
Average Dry Bulb Temperature (°C)	29.0	29.1	29.1	29.1	28.9	28.7	28.3	28.0	27.8	27.7	27.6	27.5
Average Dew Point Temperature (°C)	22.9	22.8	22.8	22.8	22.9	22.9	23.0	23.3	23.5	23.6	23.7	23.7
Min Relative Humidity (%)	44.0	40.2	40.7	37.3	42.1	35.6	37.9	51.4	58.7	53.5	64.2	65.4
Average Relative Humidity (%)	70.3	69.7	69.6	69.7	70.5	71.7	73.4	75.9	77.4	78.5	79.4	80.3
Average Wind Speed (m/s)	3.6	3.9	4.1	4.2	4.0	3.7	3.3	3.0	2.8	2.7	2.6	2.5
Max Gust (m/s)	16.8	14.8	15.2	20.2	14.3	14.3	13.7	12.8	13.7	13.1	11.5	18.1
Rainfall (mm)	204.2	89.0	171.3	111.3	113.2	56.8	64.2	48.0	12.6	14.6	29.8	28.0



- No Data
- Defective Data

S108 Marina Barrage 2014

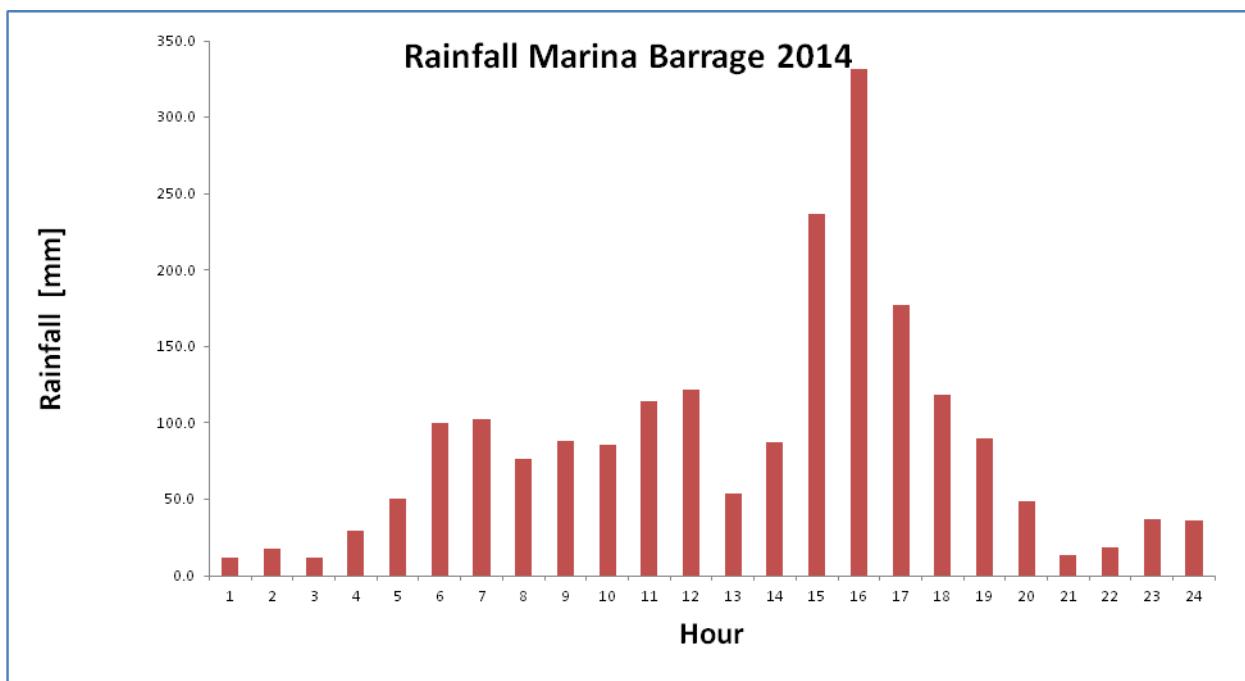
Hours	1	2	3	4	5	6	7	8	9	10	11	12
Min Dry Bulb Temperature (°C)	23.7	24.0	23.8	23.6	23.6	22.9	23.0	22.9	22.0	22.9	23.1	23.4
Max Dry Bulb Temperature (°C)	30.2	30.0	29.9	29.7	29.5	29.4	29.5	30.4	31.7	33.0	33.3	34.5
Average Dry Bulb Temperature (°C)	27.4	27.2	27.1	26.9	26.8	26.7	26.7	27.1	28.1	29.0	29.8	30.3
Average Dew Point Temperature (°C)	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	23.8	23.6	23.5
Min Relative Humidity (%)	66.8	60.3	56.9	68.8	69.1	71.7	71.7	66.8	57.0	52.1	45.0	38.6
Average Relative Humidity (%)	82.1	82.7	83.6	84.0	84.5	85.0	85.3	83.3	78.5	73.7	69.9	67.8
Average Wind Speed (m/s)	1.5	1.5	1.5	1.5	1.4	1.4	1.4	1.5	1.7	1.9	2.0	2.0
Max Gust (m/s)	10.4	9.8	12.9	12.3	11.6	9.5	14.1	12.1	27.8	23.0	24.6	12.5
Rainfall (mm)	11.4	17.8	11.4	29.0	50.6	100.2	102.8	76.2	88.2	86.0	113.8	121.4



- No Data
- Defective Data

S108 Marina Barrage 2014

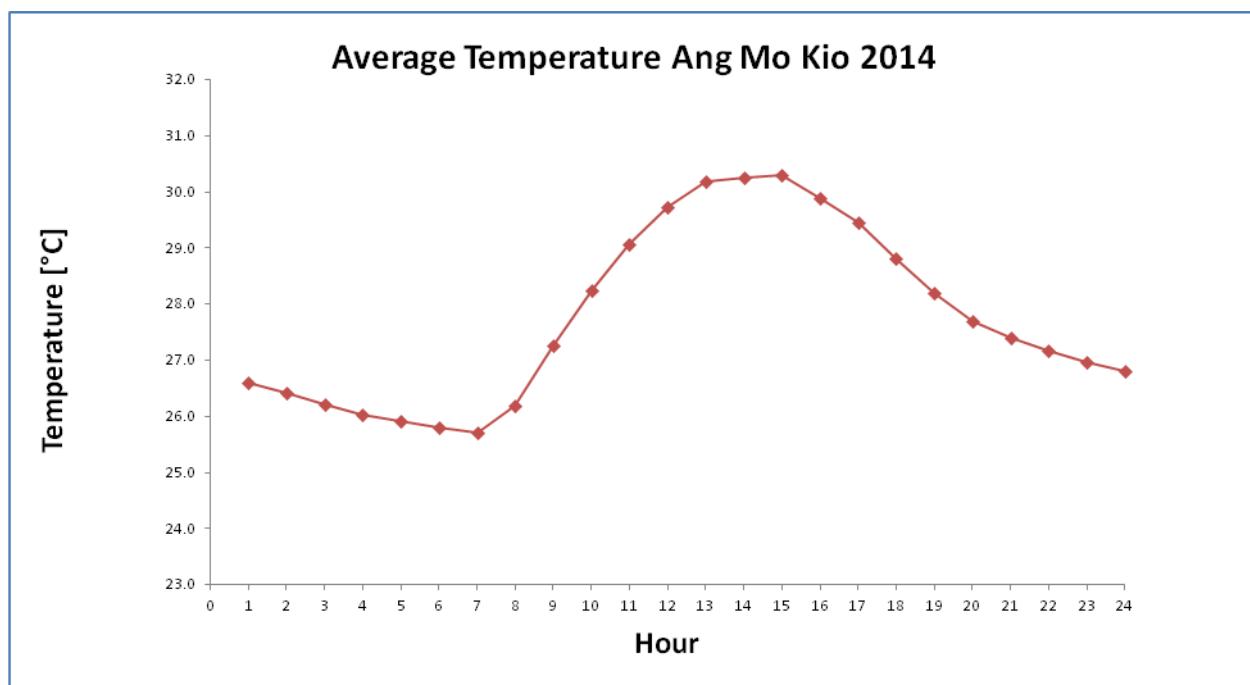
Hours	13	14	15	16	17	18	19	20	21	22	23	24
Min Dry Bulb Temperature (°C)	23.5	23.4	22.4	22.6	23.6	23.6	23.2	23.4	24.2	24.5	24.3	23.4
Max Dry Bulb Temperature (°C)	34.8	35.1	34.9	34.7	34.6	34.0	32.7	31.8	30.9	30.7	30.7	30.6
Average Dry Bulb Temperature (°C)	30.7	30.7	30.5	30.2	29.8	29.2	28.6	28.2	28.0	27.9	27.7	27.5
Average Dew Point Temperature (°C)	23.3	23.2	23.2	23.2	23.3	23.3	23.4	23.6	23.8	23.9	24.0	24.1
Min Relative Humidity (%)	34.2	32.0	31.1	32.3	36.1	35.7	37.6	48.0	55.6	58.8	65.1	67.8
Average Relative Humidity (%)	65.7	65.4	66.1	67.1	68.9	70.9	73.8	76.3	78.0	79.5	80.5	81.5
Average Wind Speed (m/s)	2.0	2.1	2.1	2.2	2.1	2.0	1.9	1.8	1.7	1.7	1.6	1.5
Max Gust (m/s)	12.3	20.9	26.5	10.9	20.8	23.3	17.2	16.0	9.3	9.8	11.1	10.9
Rainfall (mm)	54.0	87.2	236.4	332.0	177.2	118.6	90.2	49.0	13.6	18.2	36.8	35.8



- No Data
- Defective Data

S109 Ang Mo Kio 2014

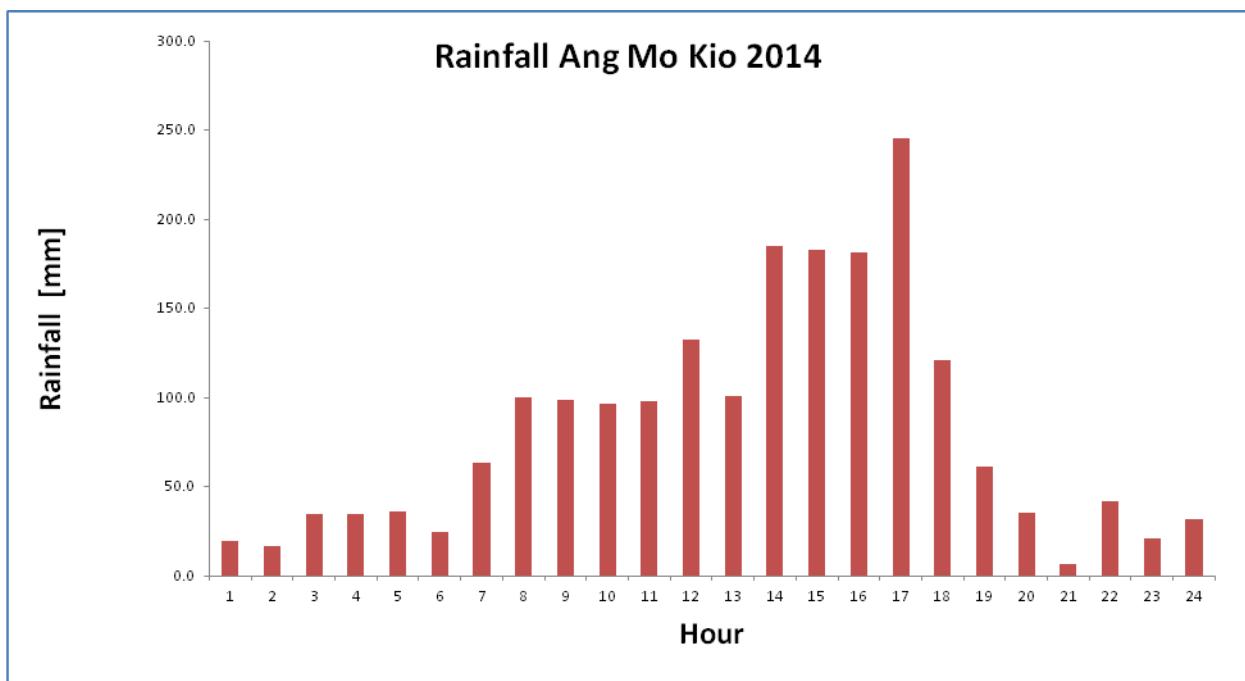
Hours	1	2	3	4	5	6	7	8	9	10	11	12
Min Dry Bulb Temperature (°C)	23.4	22.9	22.6	22.5	22.3	22.2	22.2	21.8	22.4	22.4	22.3	22.5
Max Dry Bulb Temperature (°C)	30.2	30.1	29.7	29.6	29.5	29.3	29.2	29.8	30.4	32.1	32.8	33.7
Average Dry Bulb Temperature (°C)	26.6	26.4	26.2	26.0	25.9	25.8	25.7	26.2	27.3	28.2	29.1	29.7
Average Dew Point Temperature (°C)	23.1	23.1	23.1	23.2	23.1	23.1	23.2	23.2	22.9	22.4	21.9	21.4
Min Relative Humidity (%)	64.2	56.6	52.8	62.0	63.0	68.0	68.1	66.9	59.6	46.6	44.6	39.0
Average Relative Humidity (%)	81.3	82.3	83.5	84.4	85.0	85.5	86.2	83.7	77.4	71.2	66.0	62.0
Average Wind Speed (m/s)	1.3	1.3	1.2	1.2	1.1	1.1	1.1	1.2	1.4	1.8	2.0	2.1
Max Gust (m/s)	11.5	11.8	13.9	12.1	10.1	9.7	13.2	13.6	11.5	13.5	13.5	10.8
Rainfall (mm)	19.6	16.8	34.4	34.2	36.2	24.8	63.4	100.2	98.6	96.8	98.0	132.2



- No Data
- Defective Data

S109 Ang Mo Kio 2014

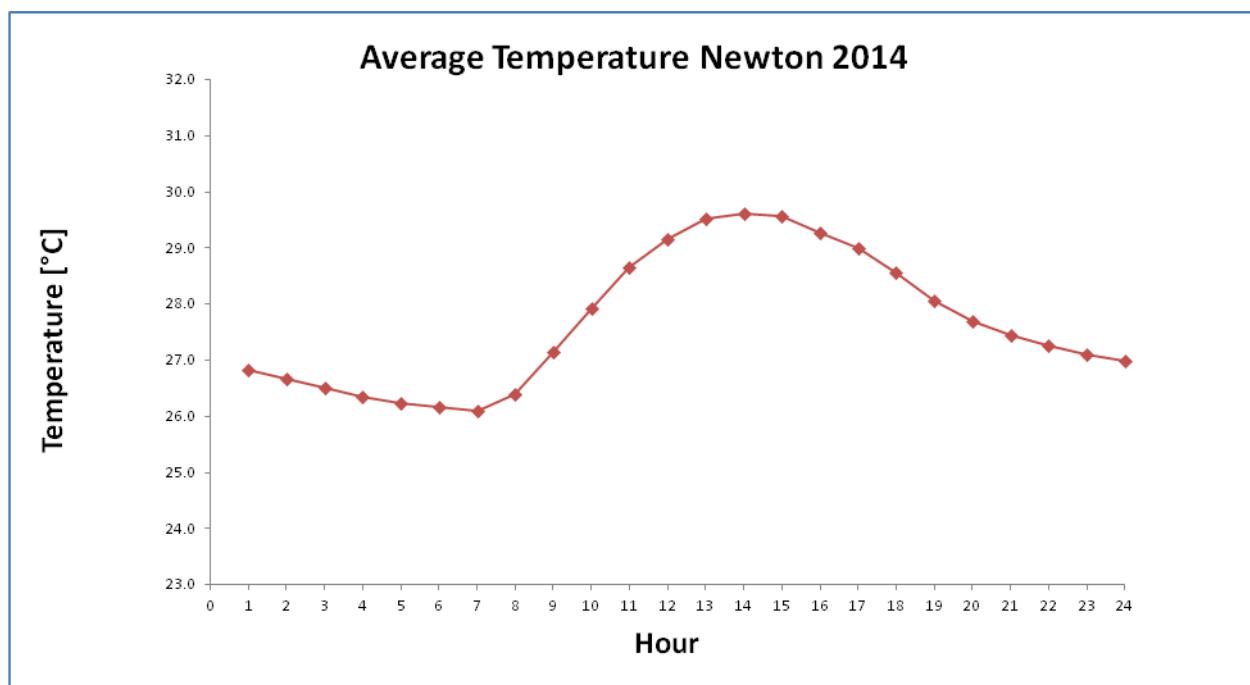
Hours	13	14	15	16	17	18	19	20	21	22	23	24
Min Dry Bulb Temperature (°C)	22.7	22.2	22.3	22.6	22.6	22.6	22.7	22.8	22.7	23.2	23.1	23.0
Max Dry Bulb Temperature (°C)	34.5	34.8	35.0	34.6	34.8	33.9	33.8	32.6	32.1	30.7	30.5	30.6
Average Dry Bulb Temperature (°C)	30.2	30.3	30.3	29.9	29.5	28.8	28.2	27.7	27.4	27.2	27.0	26.8
Average Dew Point Temperature (°C)	21.1	21.1	21.0	21.2	21.4	21.7	21.9	22.2	22.5	22.7	22.9	23.0
Min Relative Humidity (%)	36.2	31.8	31.0	30.7	32.4	31.5	30.0	30.0	37.8	51.6	55.9	61.7
Average Relative Humidity (%)	59.4	59.5	59.0	61.3	63.4	66.6	69.7	72.9	75.2	77.0	78.7	80.0
Average Wind Speed (m/s)	2.2	2.2	2.3	2.4	2.3	2.2	1.9	1.7	1.6	1.5	1.4	1.4
Max Gust (m/s)	15.7	12.7	12.3	11.5	11.5	12.0	10.7	9.7	9.3	9.6	9.7	8.5
Rainfall (mm)	100.8	185.0	183.0	181.6	245.8	121.0	61.4	35.0	6.6	41.8	21.2	31.4



- No Data
- Defective Data

S111 Newton 2014

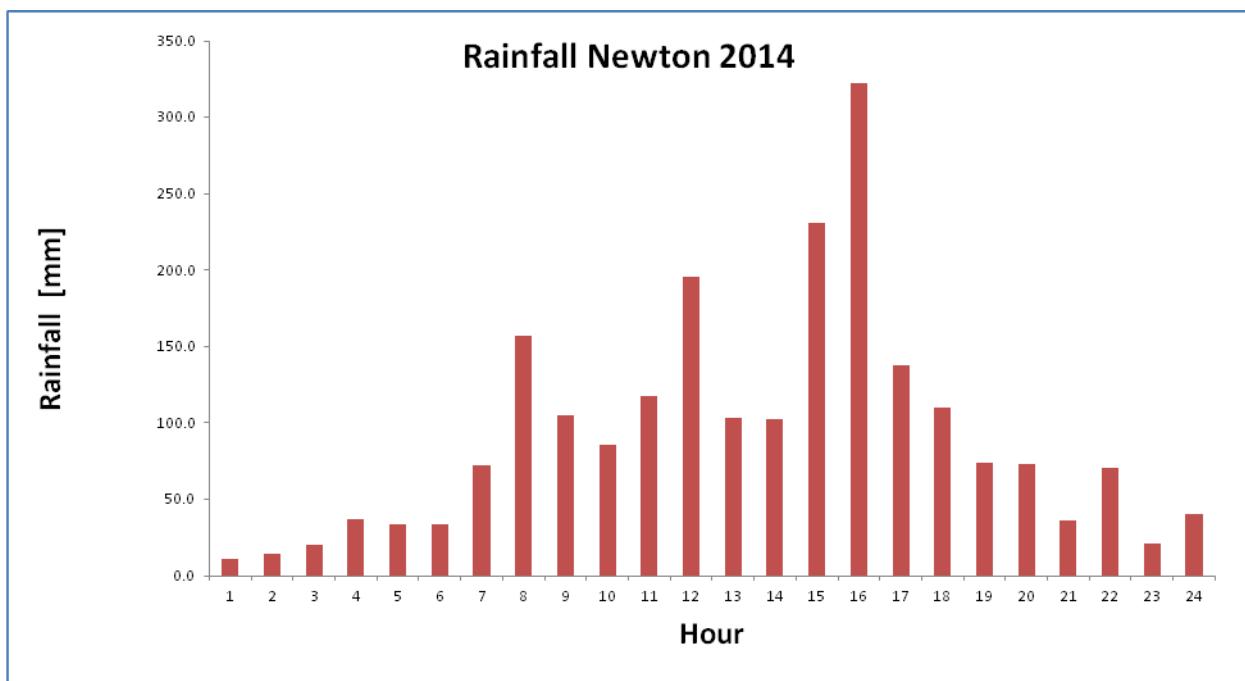
Hours	1	2	3	4	5	6	7	8	9	10	11	12
Min Dry Bulb Temperature (°C)	23.6	23.7	23.6	23.0	23.2	22.8	22.8	22.8	23.1	22.9	22.5	22.0
Max Dry Bulb Temperature (°C)	29.7	29.5	29.4	29.1	29.0	29.0	29.0	29.5	30.5	31.2	32.5	33.0
Average Dry Bulb Temperature (°C)	26.8	26.7	26.5	26.4	26.2	26.2	26.1	26.4	27.1	27.9	28.7	29.2
Average Dew Point Temperature (°C)	24.1	24.2	24.3	24.3	24.4	24.4	24.5	24.5	24.2	23.6	23.0	22.6
Min Relative Humidity (%)	68.5	61.5	59.3	63.7	67.1	69.9	70.9	67.0	63.1	55.2	39.9	40.9
Average Relative Humidity (%)	85.5	86.5	87.8	88.9	89.7	90.3	90.9	89.1	83.9	77.5	71.9	68.5
Average Wind Speed (m/s)	1.7	1.7	1.7	1.7	1.6	1.6	1.6	1.6	1.8	2.0	2.2	2.2
Max Gust (m/s)	11.2	11.2	19.6	15.3	14.3	13.2	13.6	16.4	13.7	13.0	12.5	14.5
Rainfall (mm)	11.2	14.0	20.4	37.0	33.8	33.8	72.0	157.0	104.8	85.8	117.2	195.8



- No Data
- Defective Data

S111 Newton 2014

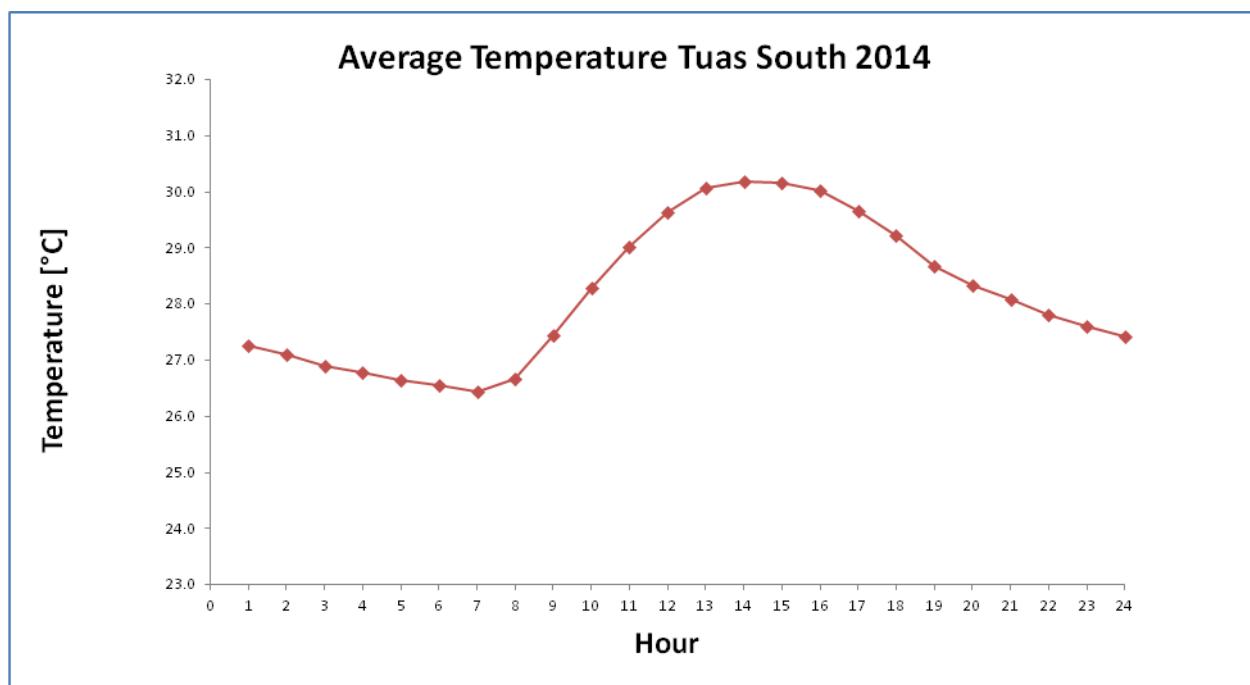
Hours	13	14	15	16	17	18	19	20	21	22	23	24
Min Dry Bulb Temperature (°C)	22.3	23.0	22.1	22.1	23.2	23.3	23.4	23.5	23.5	23.1	23.3	23.4
Max Dry Bulb Temperature (°C)	33.7	34.2	34.4	34.2	33.1	33.6	32.2	31.6	30.6	30.3	30.2	30.2
Average Dry Bulb Temperature (°C)	29.5	29.6	29.6	29.3	29.0	28.6	28.1	27.7	27.4	27.3	27.1	27.0
Average Dew Point Temperature (°C)	22.3	22.1	22.1	22.2	22.4	22.5	22.8	23.1	23.5	23.7	23.9	24.1
Min Relative Humidity (%)	38.9	33.8	32.2	31.3	35.1	34.3	34.4	41.7	50.1	57.3	58.0	65.2
Average Relative Humidity (%)	66.2	65.5	65.6	66.8	68.6	70.9	73.9	76.9	79.5	81.4	83.1	84.4
Average Wind Speed (m/s)	2.3	2.5	2.5	2.7	2.6	2.4	2.1	2.0	1.9	1.9	1.9	1.8
Max Gust (m/s)	16.0	13.3	12.5	14.0	14.0	12.4	12.3	12.7	12.7	12.5	13.5	11.8
Rainfall (mm)	103.2	102.8	231.0	322.4	138.0	109.8	74.2	72.8	36.0	70.6	20.6	40.4



- No Data
- Defective Data

S115 Tuas South 2014

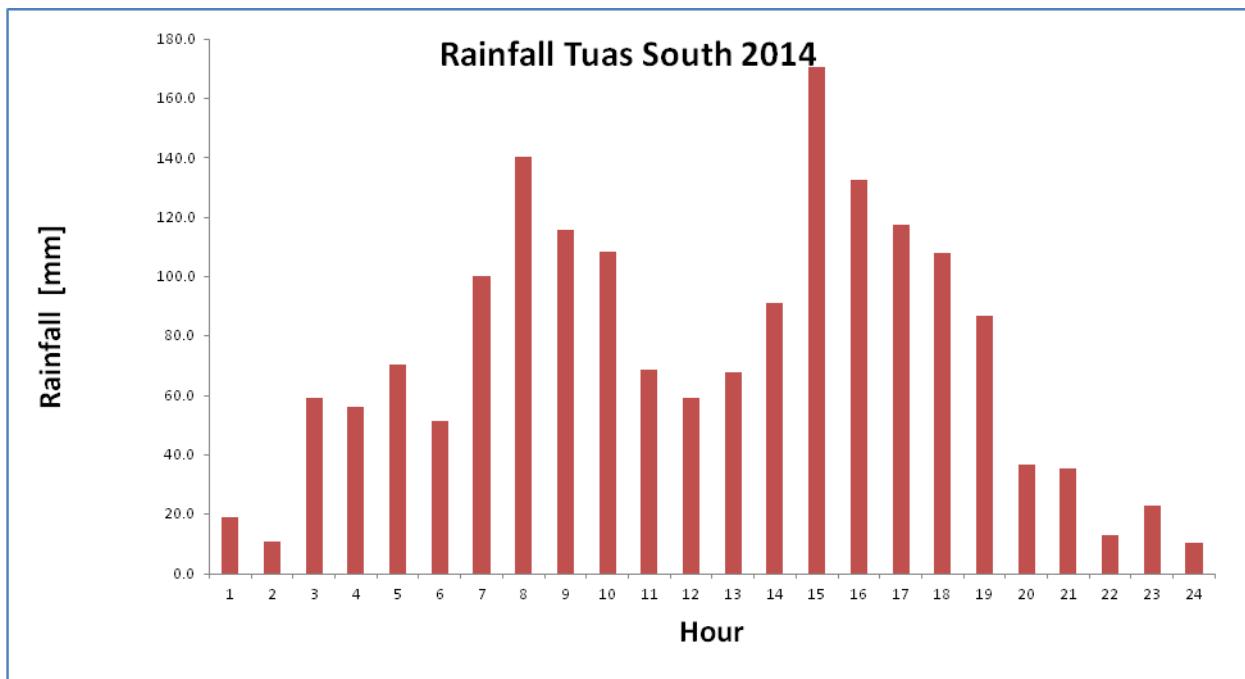
Hours	1	2	3	4	5	6	7	8	9	10	11	12
Min Dry Bulb Temperature (°C)	23.7	24.1	23.8	23.7	22.8	22.8	22.9	22.3	23.4	23.7	23.5	23.6
Max Dry Bulb Temperature (°C)	30.4	30.2	30.4	29.4	29.7	30.0	30.3	30.3	30.5	31.9	32.6	33.4
Average Dry Bulb Temperature (°C)	27.3	27.1	26.9	26.8	26.6	26.6	26.4	26.7	27.5	28.3	29.0	29.6
Average Dew Point Temperature (°C)	23.4	23.5	23.4	23.4	23.4	23.4	23.3	23.5	23.6	23.5	23.4	23.2
Min Relative Humidity (%)	61.4	64.1	66.8	67.1	67.1	62.1	59.7	58.8	63.5	57.0	52.7	48.3
Average Relative Humidity (%)	79.6	80.6	81.5	82.1	82.6	83.0	83.2	82.7	79.5	75.8	72.0	68.8
Average Wind Speed (m/s)	1.3	1.3	1.3	1.3	1.4	1.4	1.4	1.5	1.7	1.9	2.1	2.4
Max Gust (m/s)	16.2	18.4	24.6	14.1	17.0	19.3	15.7	13.6	12.3	14.5	12.8	14.8
Rainfall (mm)	19.0	11.0	59.0	56.2	70.4	51.4	100.0	140.2	115.6	108.2	68.6	59.2



- No Data
- Defective Data

S115 Tuas South 2014

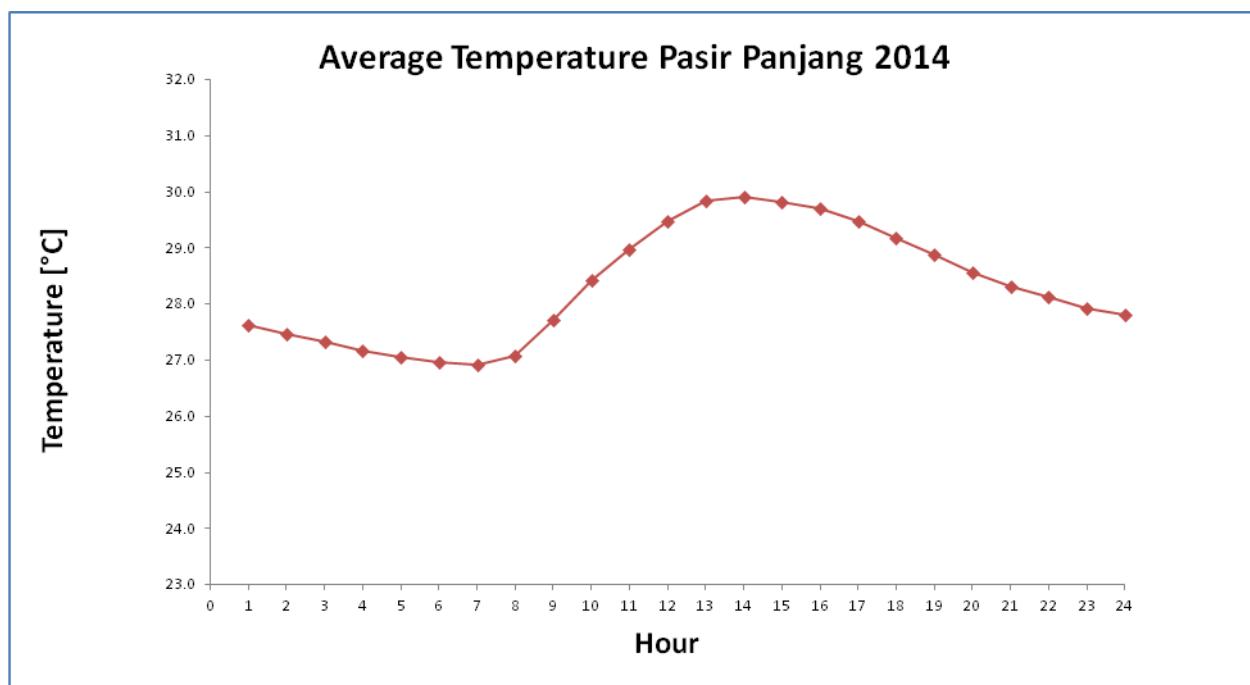
Hours	13	14	15	16	17	18	19	20	21	22	23	24
Min Dry Bulb Temperature (°C)	23.0	24.4	23.6	23.3	23.2	22.9	21.7	22.8	24.1	24.4	23.4	23.3
Max Dry Bulb Temperature (°C)	33.6	34.0	34.5	34.3	34.2	34.0	32.9	31.9	31.0	30.4	30.5	30.4
Average Dry Bulb Temperature (°C)	30.1	30.2	30.2	30.0	29.7	29.2	28.7	28.3	28.1	27.8	27.6	27.4
Average Dew Point Temperature (°C)	23.2	23.2	23.1	23.1	23.1	23.0	23.0	23.0	23.1	23.2	23.4	23.4
Min Relative Humidity (%)	42.2	36.2	34.3	33.7	34.8	38.3	43.1	46.3	49.1	53.8	61.3	63.6
Average Relative Humidity (%)	67.3	66.9	66.9	67.5	68.6	70.1	71.9	73.4	74.7	76.5	77.9	78.8
Average Wind Speed (m/s)	2.5	2.7	2.8	2.7	2.4	2.0	1.7	1.5	1.4	1.4	1.3	1.3
Max Gust (m/s)	10.4	10.6	13.8	20.1	11.7	11.2	10.6	8.8	8.8	9.6	8.7	13.6
Rainfall (mm)	67.6	91.2	170.6	132.8	117.6	107.8	86.6	36.8	35.6	13.0	23.0	10.4



- No Data
- Defective Data

S116 Pasir Panjang 2014

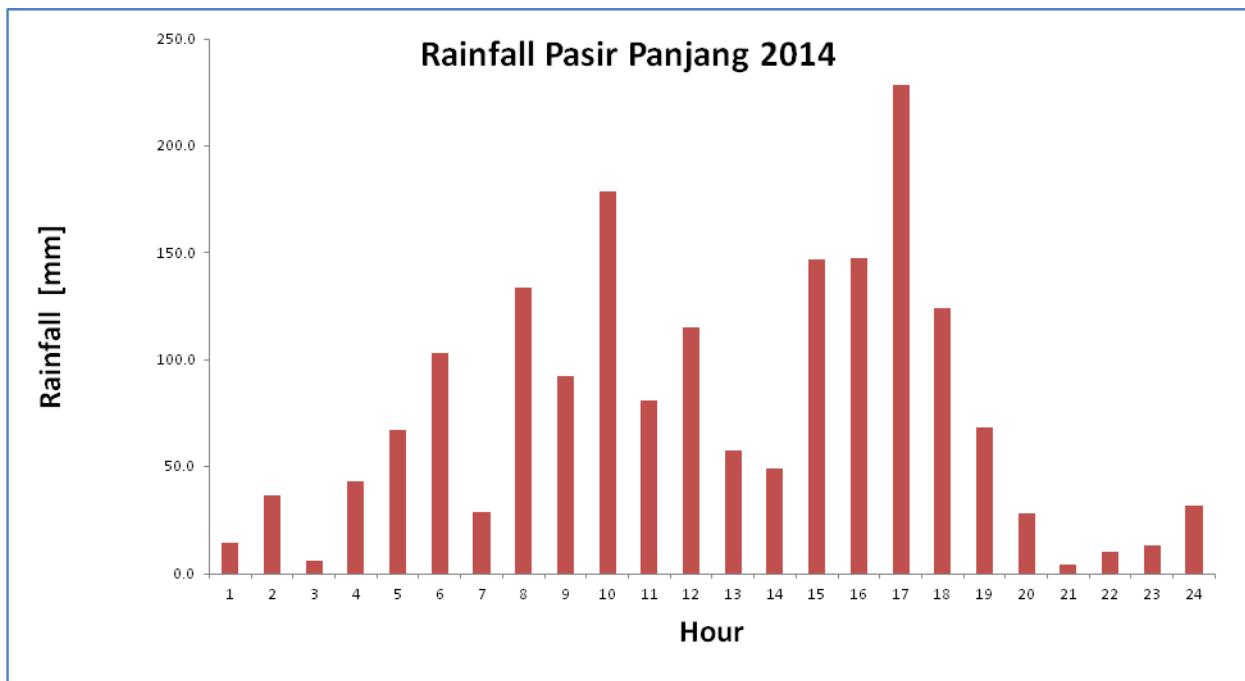
Hours	1	2	3	4	5	6	7	8	9	10	11	12
Min Dry Bulb Temperature (°C)	23.2	23.8	23.4	23.5	23.4	23.0	23.0	22.2	23.1	22.6	22.8	23.1
Max Dry Bulb Temperature (°C)	30.7	30.6	30.2	30.1	30.0	30.0	30.0	30.2	30.7	31.8	32.8	33.3
Average Dry Bulb Temperature (°C)	27.6	27.5	27.3	27.2	27.1	27.0	26.9	27.1	27.7	28.4	29.0	29.5
Average Dew Point Temperature (°C)	24.5	24.5	24.5	24.4	24.4	24.4	24.4	24.4	24.3	24.1	23.9	23.7
Min Relative Humidity (%)	67.4	63.7	63.7	64.7	67.8	69.6	70.5	67.3	66.6	59.5	51.1	44.4
Average Relative Humidity (%)	83.1	83.8	84.6	85.2	85.8	86.1	86.1	85.3	81.9	77.8	74.5	71.7
Average Wind Speed (m/s)	2.5	2.5	2.5	2.6	2.5	2.5	2.5	2.5	2.7	3.1	3.3	3.3
Max Gust (m/s)	18.8	18.3	28.8	21.2	18.2	17.2	15.1	17.4	15.0	20.0	22.1	13.9
Rainfall (mm)	14.2	36.6	6.0	43.4	67.2	103.4	29.0	133.8	92.6	179.0	81.0	115.0



- No Data
- Defective Data

S116 Pasir Panjang 2014

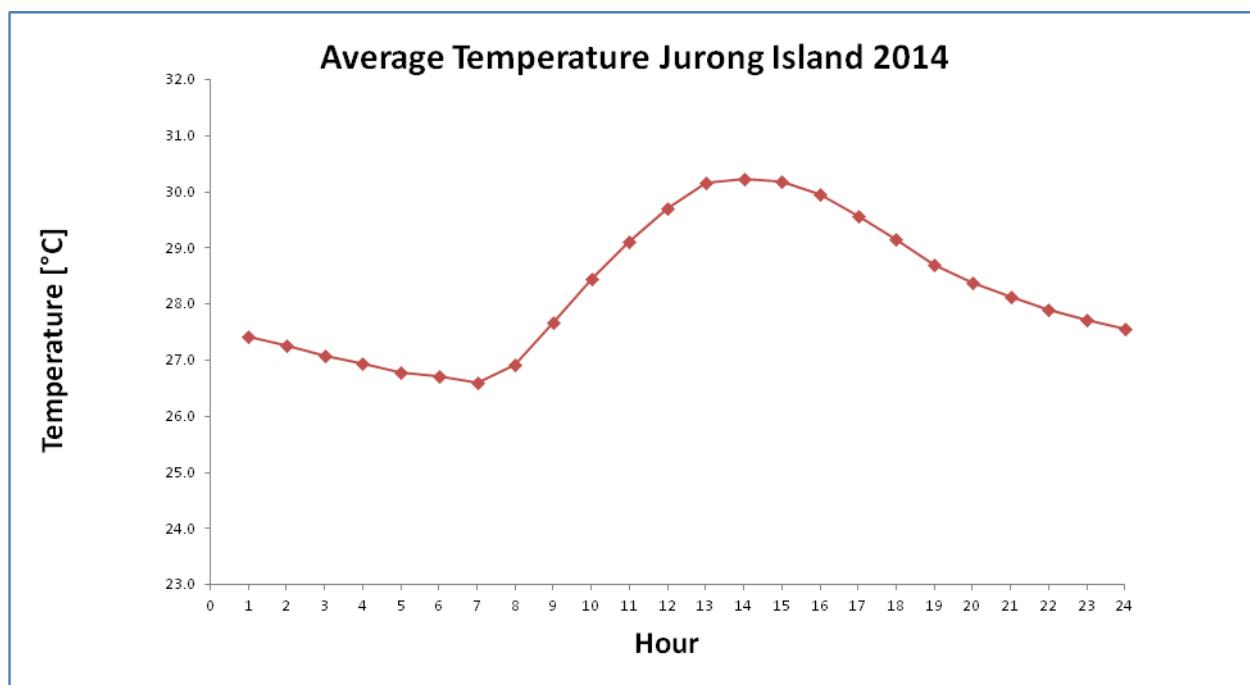
Hours	13	14	15	16	17	18	19	20	21	22	23	24
Min Dry Bulb Temperature (°C)	23.4	24.2	22.7	23.2	22.2	23.3	24.0	24.4	24.7	24.3	23.3	22.6
Max Dry Bulb Temperature (°C)	33.6	33.5	33.7	34.0	33.7	33.5	32.5	31.9	31.5	31.0	30.9	30.9
Average Dry Bulb Temperature (°C)	29.8	29.9	29.8	29.7	29.5	29.2	28.9	28.6	28.3	28.1	27.9	27.8
Average Dew Point Temperature (°C)	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.8	24.1	24.2	24.4	24.4
Min Relative Humidity (%)	40.9	36.9	31.6	34.7	33.5	43.3	44.9	48.0	53.2	60.3	62.9	67.4
Average Relative Humidity (%)	69.9	69.7	70.2	70.7	71.5	72.6	73.9	75.9	78.0	79.7	81.2	82.1
Average Wind Speed (m/s)	3.3	3.4	3.5	3.5	3.3	3.1	2.9	2.7	2.7	2.7	2.6	2.5
Max Gust (m/s)	18.0	14.7	20.6	16.1	15.1	16.6	14.2	12.5	12.3	12.4	11.7	11.9
Rainfall (mm)	57.4	49.4	146.8	147.4	228.6	124.0	68.4	28.0	4.2	10.4	13.2	31.6



- No Data
- Defective Data

S117 Jurong Island 2014

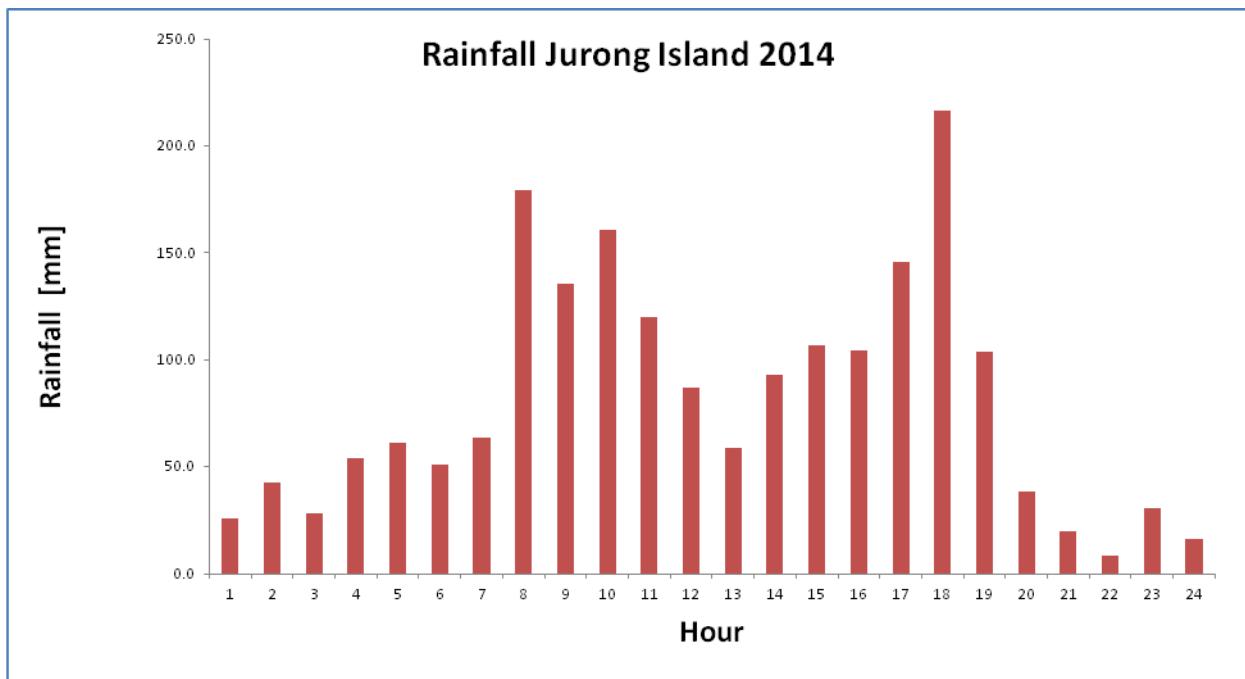
Hours	1	2	3	4	5	6	7	8	9	10	11	12
Min Dry Bulb Temperature (°C)	23.9	23.4	23.2	23.2	22.9	23.0	22.9	22.0	22.0	23.6	22.3	23.0
Max Dry Bulb Temperature (°C)	30.1	30.1	29.8	29.3	29.3	29.4	29.5	29.9	30.6	31.6	32.1	33.0
Average Dry Bulb Temperature (°C)	27.4	27.3	27.1	26.9	26.8	26.7	26.6	26.9	27.7	28.5	29.1	29.7
Average Dew Point Temperature (°C)	23.6	23.7	23.7	23.7	23.7	23.7	23.6	23.7	23.5	23.2	22.9	22.6
Min Relative Humidity (%)	60.2	64.6	63.6	64.5	67.1	64.8	61.0	61.5	60.2	51.8	42.3	37.4
Average Relative Humidity (%)	80.0	80.9	81.8	82.6	83.4	83.7	84.0	82.7	78.2	73.8	69.9	66.5
Average Wind Speed (m/s)	2.6	2.5	2.4	2.4	2.4	2.3	2.3	2.3	2.4	2.6	2.8	2.9
Max Gust (m/s)	23.0	10.6	15.9	15.5	15.3	15.7	22.3	18.4	25.8	15.4	15.2	18.2
Rainfall (mm)	25.6	42.4	28.4	54.2	61.4	50.8	63.6	179.2	135.8	161.0	120.2	87.2



- No Data
- Defective Data

S117 Jurong Island 2014

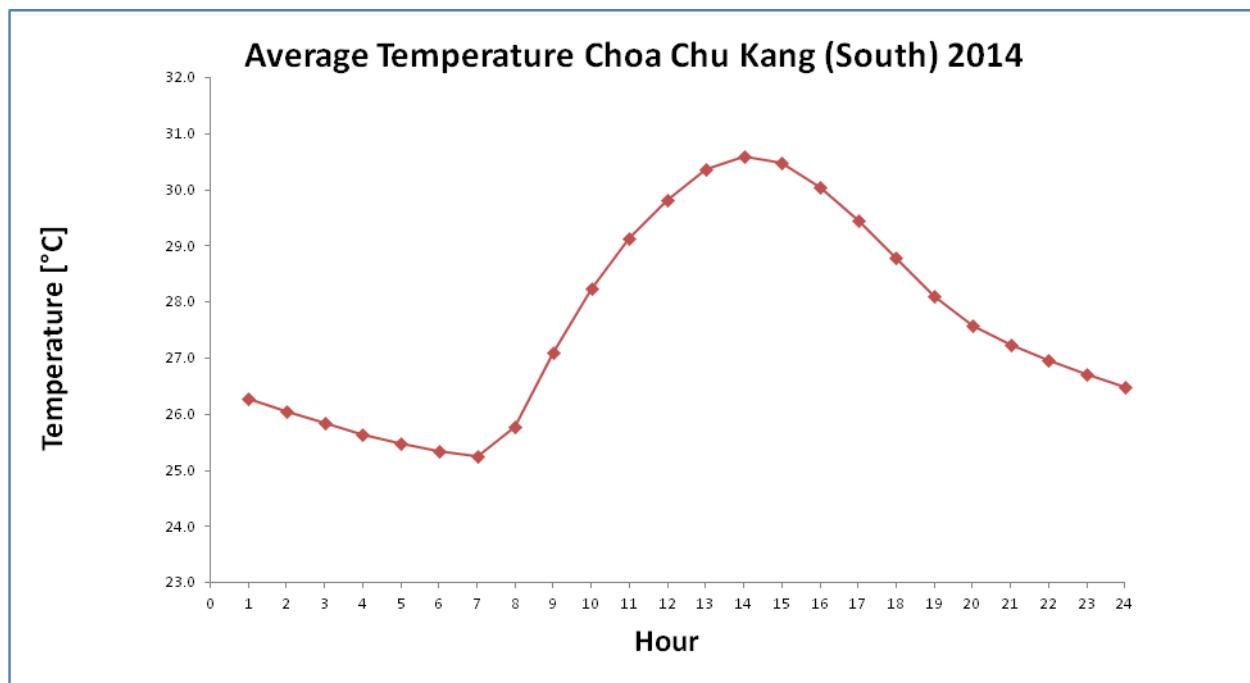
Hours	13	14	15	16	17	18	19	20	21	22	23	24
Min Dry Bulb Temperature (°C)	22.6	24.0	23.6	22.6	24.0	23.1	21.6	21.4	24.5	24.6	23.1	23.2
Max Dry Bulb Temperature (°C)	33.8	34.3	34.4	34.7	34.2	33.7	33.1	32.1	31.0	30.6	30.2	30.2
Average Dry Bulb Temperature (°C)	30.2	30.2	30.2	30.0	29.6	29.2	28.7	28.4	28.1	27.9	27.7	27.6
Average Dew Point Temperature (°C)	22.4	22.6	22.5	22.6	22.6	22.7	22.8	22.9	23.1	23.3	23.5	23.6
Min Relative Humidity (%)	33.1	30.6	30.0	30.0	30.1	30.3	34.5	43.0	44.9	48.9	59.0	57.5
Average Relative Humidity (%)	64.4	64.8	64.8	65.8	67.3	69.2	71.2	72.8	74.6	76.6	78.1	79.1
Average Wind Speed (m/s)	3.0	3.1	3.2	3.2	3.1	2.9	2.7	2.6	2.6	2.6	2.6	2.6
Max Gust (m/s)	14.0	16.8	25.0	24.2	15.3	19.3	22.7	25.5	12.5	21.5	13.1	12.7
Rainfall (mm)	58.6	93.2	106.6	104.6	145.8	216.6	103.6	38.2	19.6	8.6	30.4	16.0



- No Data
- Defective Data

S121 Choa Chu Kang (South) 2014

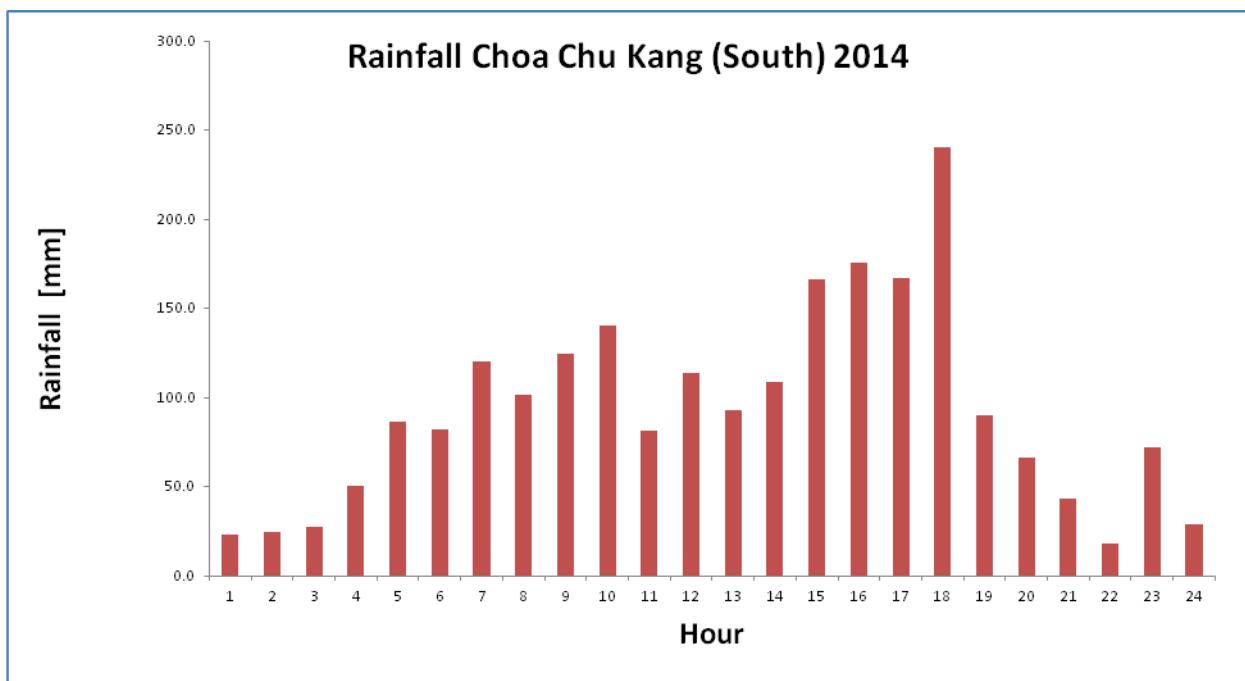
Hours	1	2	3	4	5	6	7	8	9	10	11	12
Min Dry Bulb Temperature (°C)	22.7	23.0	23.3	23.0	22.6	22.4	22.7	22.0	22.0	22.6	22.6	22.8
Max Dry Bulb Temperature (°C)	30.0	29.8	29.4	29.1	28.9	28.5	28.4	29.1	30.6	31.5	32.6	33.4
Average Dry Bulb Temperature (°C)	26.3	26.0	25.8	25.6	25.5	25.4	25.3	25.8	27.1	28.2	29.1	29.8
Average Dew Point Temperature (°C)	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.4	23.3	22.7	22.1	21.7
Min Relative Humidity (%)	65.7	58.2	56.7	66.2	68.9	70.8	72.1	70.3	62.9	54.9	45.9	35.3
Average Relative Humidity (%)	83.8	85.1	86.1	87.0	87.9	88.6	89.0	86.9	80.1	72.6	66.7	62.6
Average Wind Speed (m/s)	1.1	1.1	1.0	1.0	1.0	1.0	0.9	1.0	1.2	1.7	2.0	2.1
Max Gust (m/s)	10.5	8.8	16.3	11.5	12.9	12.7	9.7	13.1	11.0	15.6	10.8	10.7
Rainfall (mm)	23.0	24.4	27.0	50.4	86.6	82.0	120.2	101.8	124.2	140.6	81.6	113.4



- No Data
- Defective Data

S121 Choa Chu Kang (South) 2014

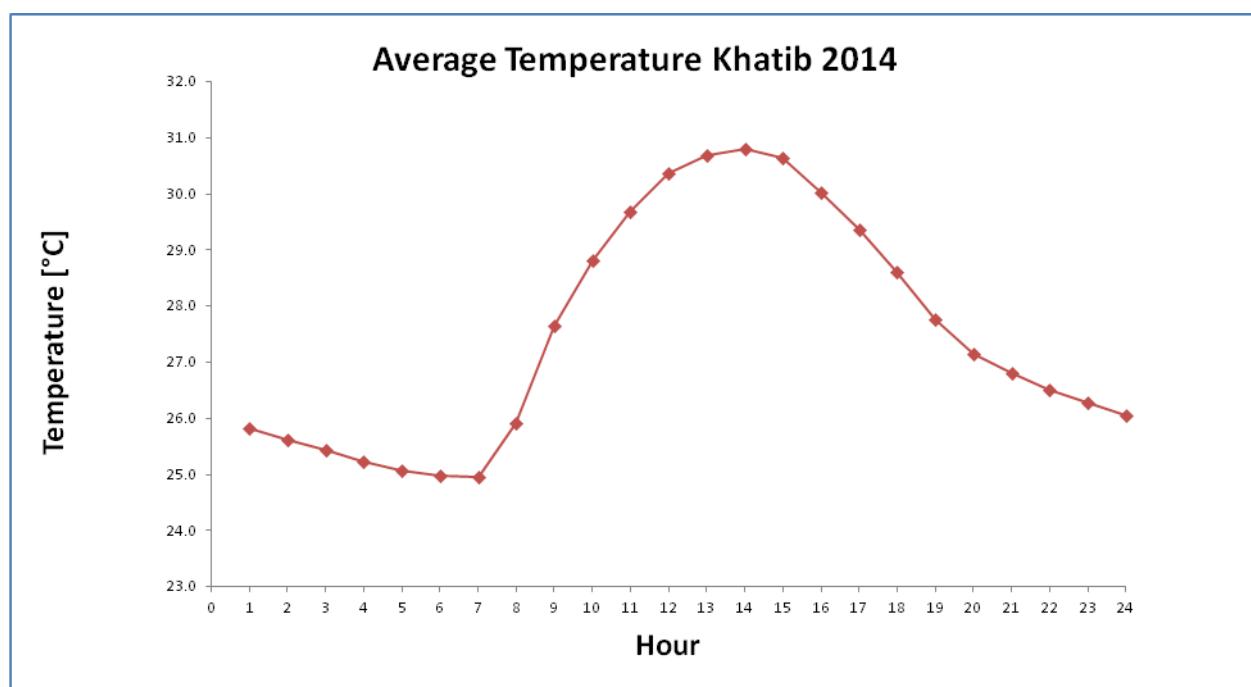
Hours	13	14	15	16	17	18	19	20	21	22	23	24
Min Dry Bulb Temperature (°C)	23.3	23.5	22.2	22.6	23.0	22.9	22.7	23.0	22.4	23.2	22.0	22.0
Max Dry Bulb Temperature (°C)	34.0	34.7	35.1	34.7	34.8	33.7	33.4	32.6	31.8	30.5	30.0	30.0
Average Dry Bulb Temperature (°C)	30.4	30.6	30.5	30.1	29.5	28.8	28.1	27.6	27.2	27.0	26.7	26.5
Average Dew Point Temperature (°C)	21.4	21.1	21.3	21.5	21.7	22.0	22.2	22.5	22.7	22.9	23.0	23.1
Min Relative Humidity (%)	33.3	30.0	30.0	30.0	30.1	30.4	38.4	40.6	44.4	50.9	60.8	62.8
Average Relative Humidity (%)	59.9	58.5	59.9	61.9	64.9	68.1	71.3	74.6	76.9	78.9	80.8	82.4
Average Wind Speed (m/s)	2.1	2.1	2.2	2.2	2.1	1.9	1.6	1.4	1.4	1.3	1.2	1.1
Max Gust (m/s)	11.0	11.3	12.0	11.4	11.7	13.9	11.0	10.3	10.1	10.1	8.7	10.0
Rainfall (mm)	93.0	108.4	166.4	175.6	167.2	240.4	90.0	66.0	43.2	18.2	72.2	28.6



- No Data
- Defective Data

S122 Khatib 2014

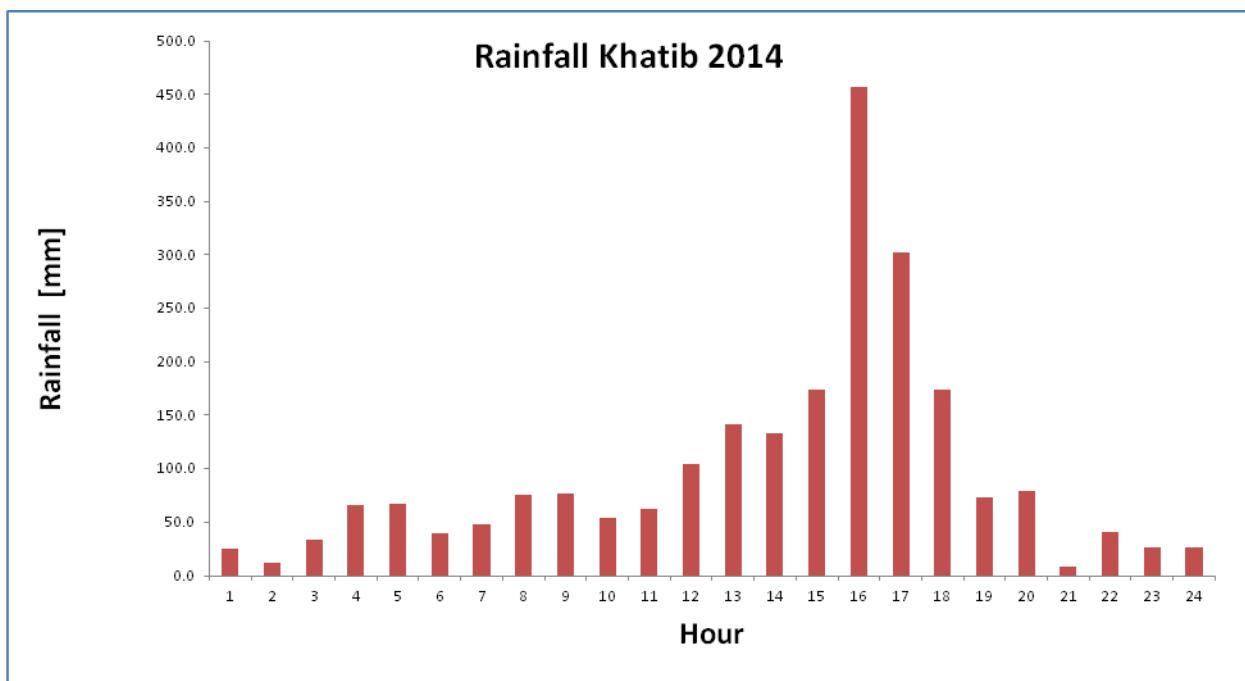
Hours	1	2	3	4	5	6	7	8	9	10	11	12
Min Dry Bulb Temperature (°C)	23.1	22.9	22.9	22.6	21.9	21.9	22.3	21.7	22.5	22.3	22.8	23.1
Max Dry Bulb Temperature (°C)	29.2	29.1	29.1	28.6	28.6	28.5	28.3	28.8	31.1	31.9	35.3	33.8
Average Dry Bulb Temperature (°C)	25.8	25.6	25.4	25.2	25.1	25.0	25.0	25.9	27.7	28.8	29.7	30.4
Average Dew Point Temperature (°C)	23.7	23.8	23.8	23.7	23.7	23.7	23.7	24.1	23.7	22.9	22.2	21.8
Min Relative Humidity (%)	62.6	62.5	58.8	68.9	69.2	70.8	69.7	67.1	54.5	51.9	43.4	37.8
Average Relative Humidity (%)	88.3	89.6	90.7	91.6	92.4	92.8	93.1	90.0	79.2	70.8	64.9	60.9
Average Wind Speed (m/s)	1.0	0.9	0.9	0.9	0.8	0.8	0.8	0.8	1.1	1.6	1.9	2.0
Max Gust (m/s)	9.5	9.2	12.5	9.8	7.9	11.3	11.4	10.3	10.7	10.2	8.7	11.0
Rainfall (mm)	24.8	11.6	33.0	65.6	67.6	39.8	47.9	75.8	76.8	54.0	62.8	104.8



- No Data
- Defective Data

S122 Khatib 2014

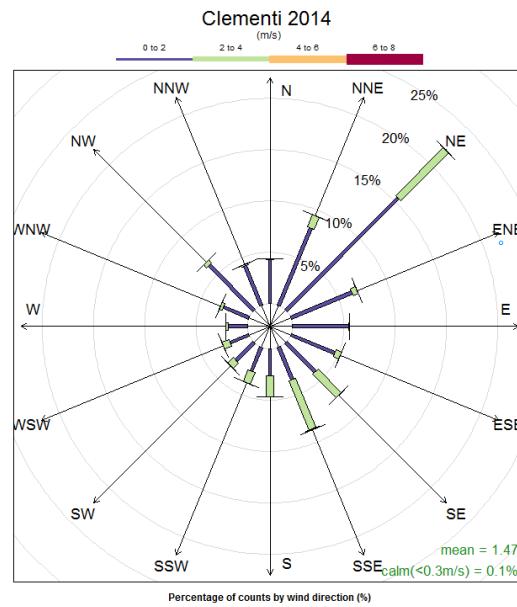
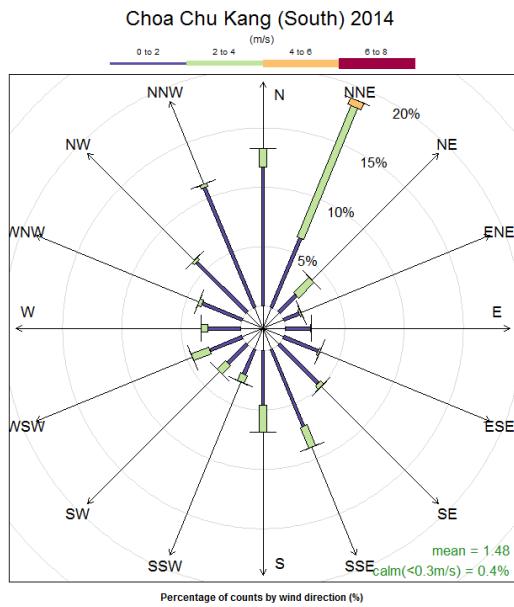
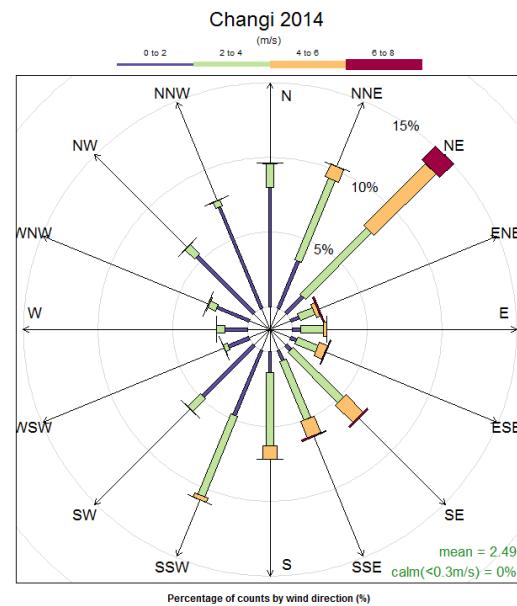
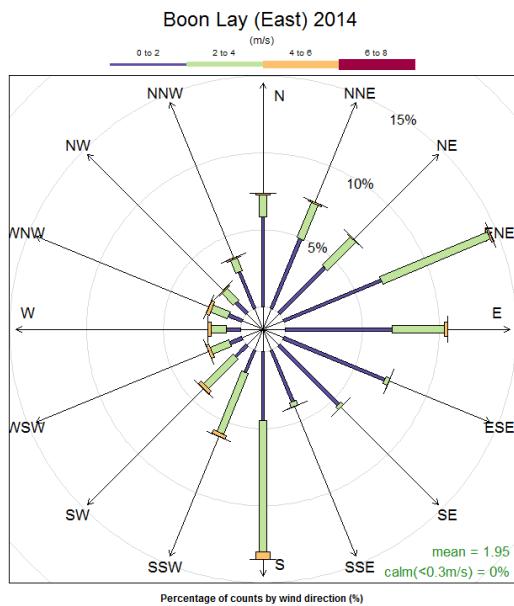
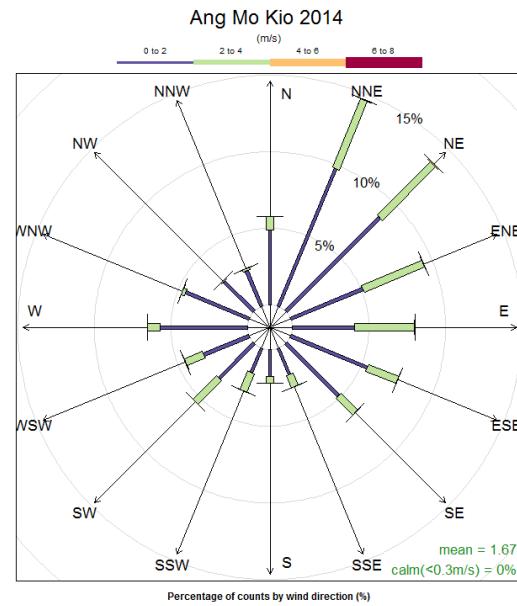
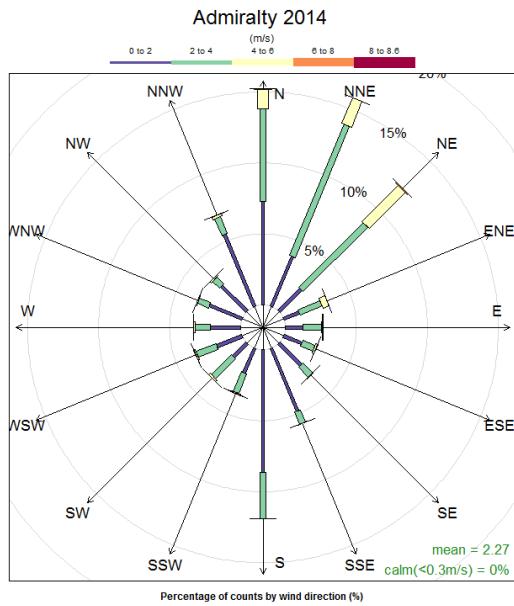
Hours	13	14	15	16	17	18	19	20	21	22	23	24
Min Dry Bulb Temperature (°C)	23.3	22.5	22.4	22.4	22.4	22.3	22.6	22.0	22.4	22.9	22.8	23.0
Max Dry Bulb Temperature (°C)	34.6	34.8	35.2	35.8	34.5	34.1	32.8	31.6	30.3	29.9	29.6	29.3
Average Dry Bulb Temperature (°C)	30.7	30.8	30.6	30.0	29.4	28.6	27.8	27.1	26.8	26.5	26.3	26.0
Average Dew Point Temperature (°C)	21.5	21.3	21.3	21.5	21.6	21.8	22.1	22.6	23.0	23.2	23.4	23.6
Min Relative Humidity (%)	32.3	30.2	30.0	30.1	33.5	32.9	34.3	34.1	42.2	52.6	62.0	61.2
Average Relative Humidity (%)	59.1	58.2	59.0	61.6	64.5	67.7	72.1	76.6	80.1	82.6	84.7	86.7
Average Wind Speed (m/s)	2.1	2.2	2.2	2.3	2.2	2.0	1.6	1.4	1.3	1.2	1.1	1.0
Max Gust (m/s)	9.6	10.2	10.3	17.0	10.6	14.3	9.0	10.1	9.3	9.1	8.9	10.5
Rainfall (mm)	141.2	132.8	173.6	456.6	302.6	173.4	72.6	79.6	8.0	40.4	26.6	26.4

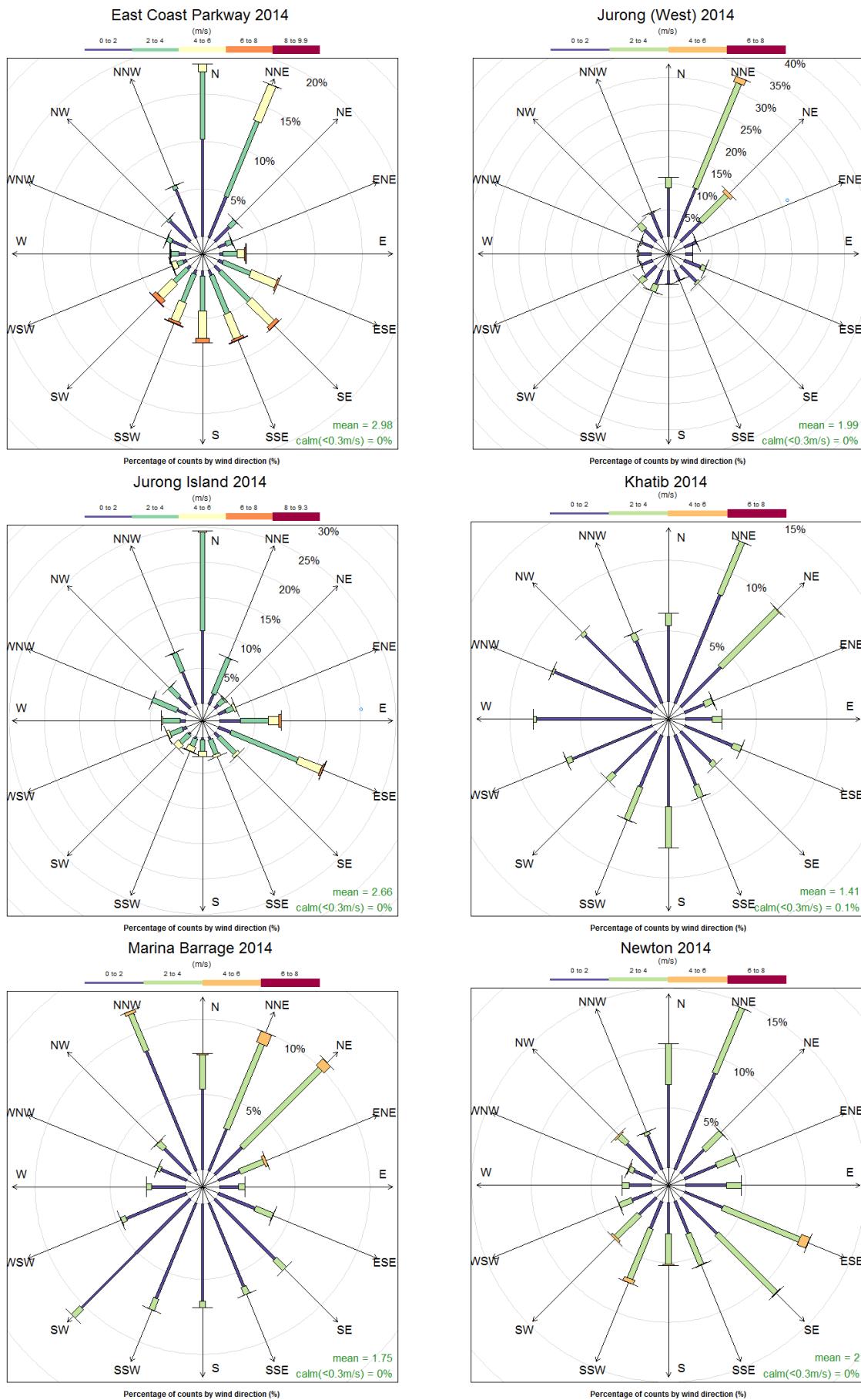


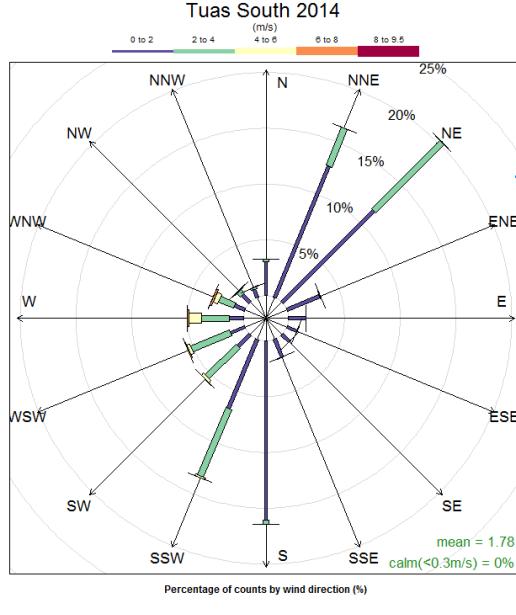
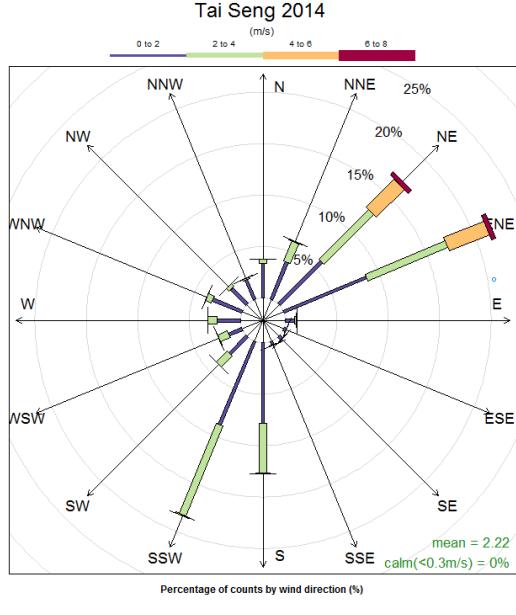
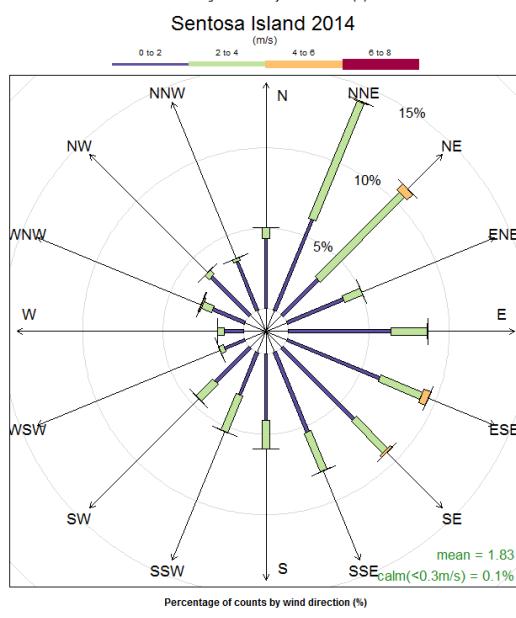
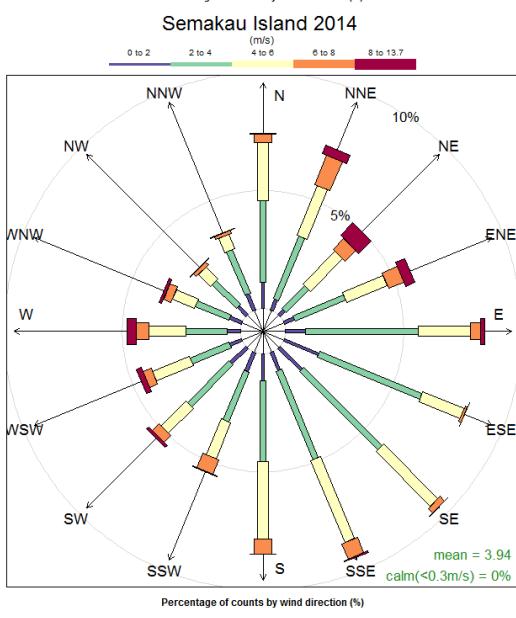
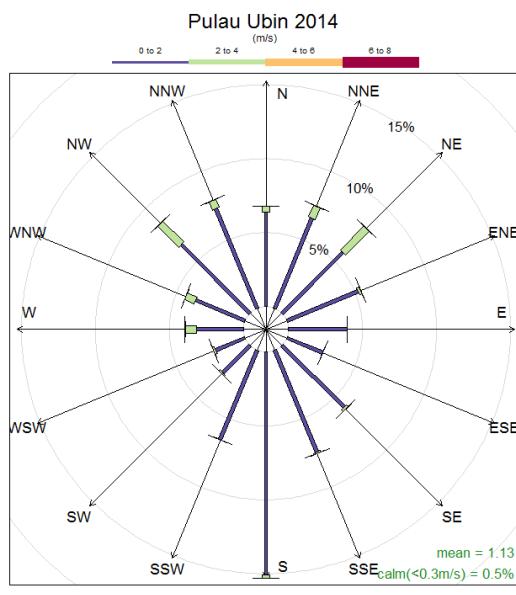
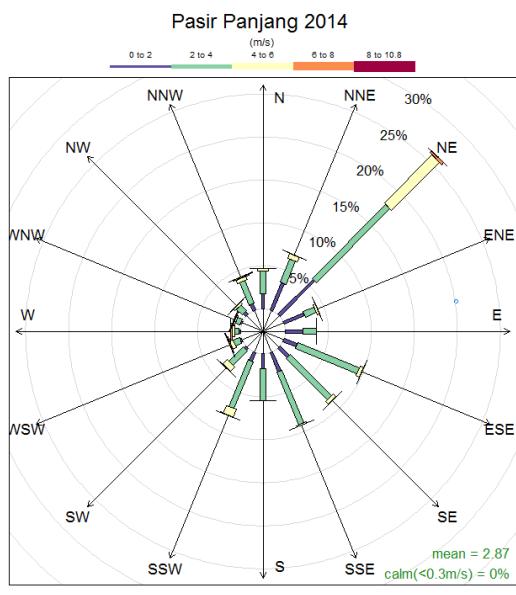
- No Data
- Defective Data

11. Wind Rose

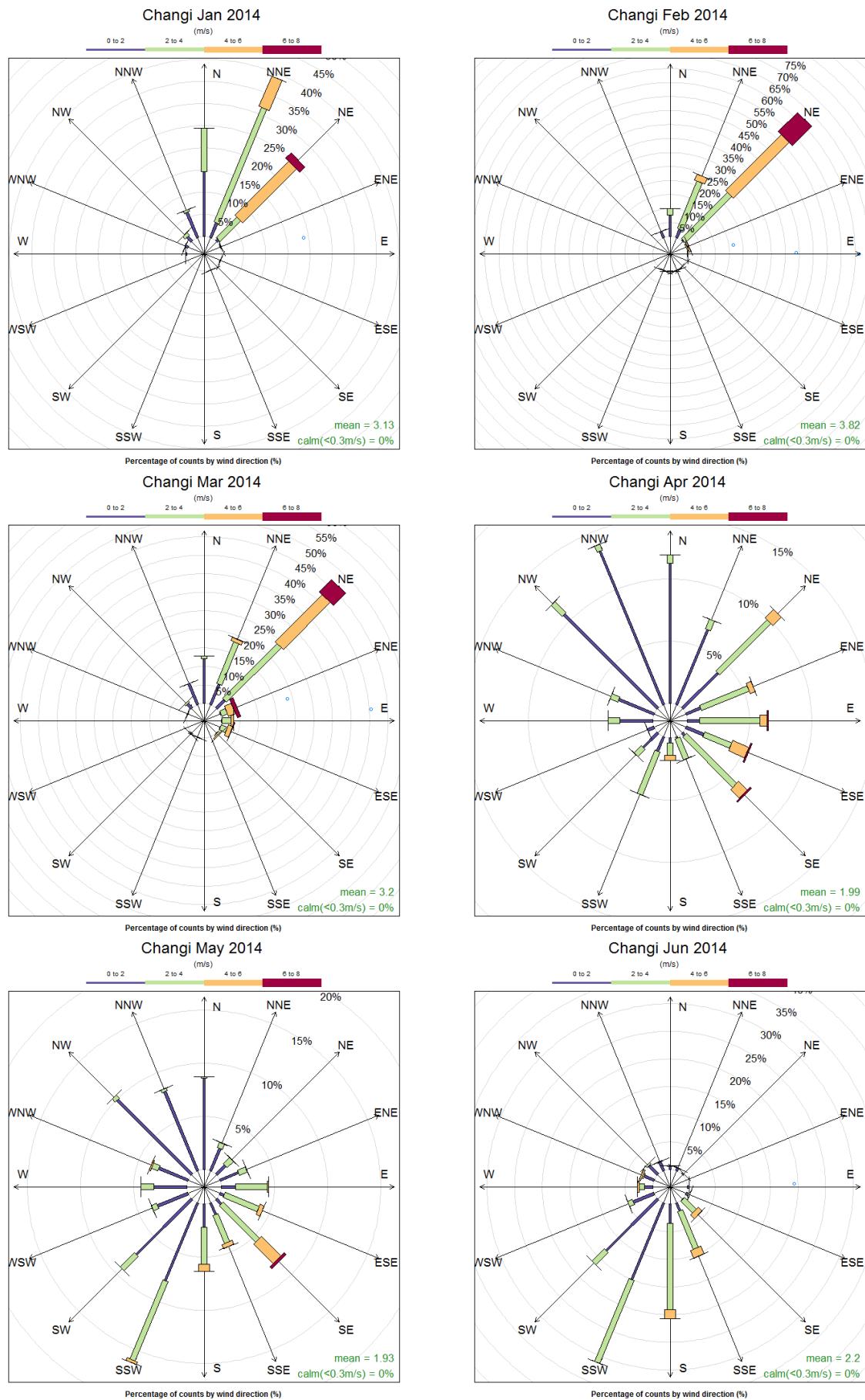
11.1. Annual Wind Rose of All Stations

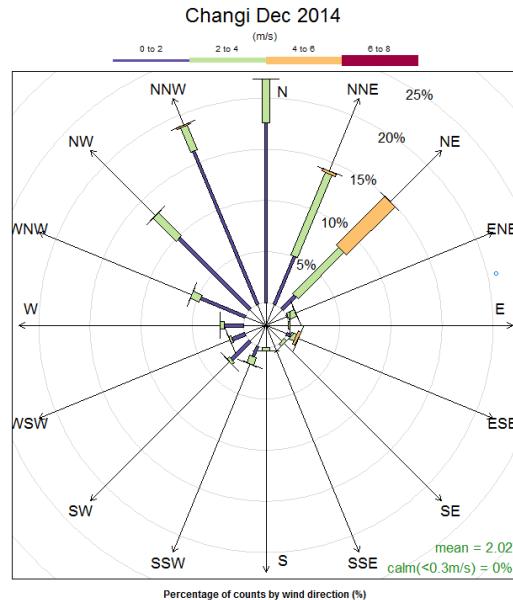
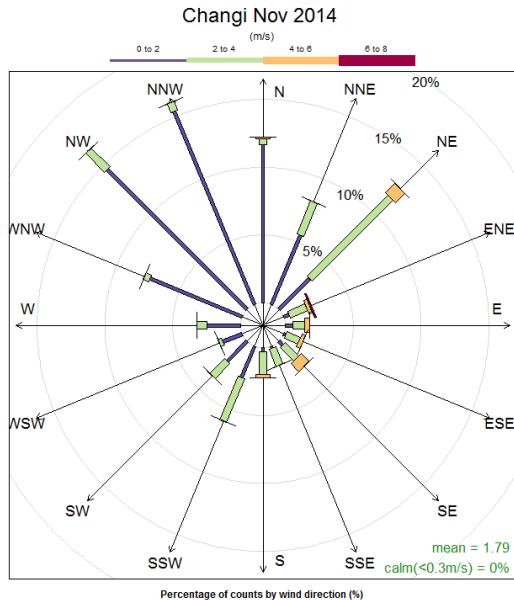
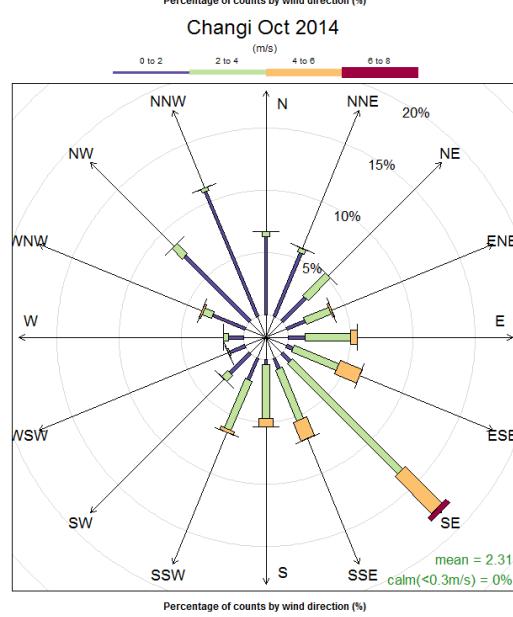
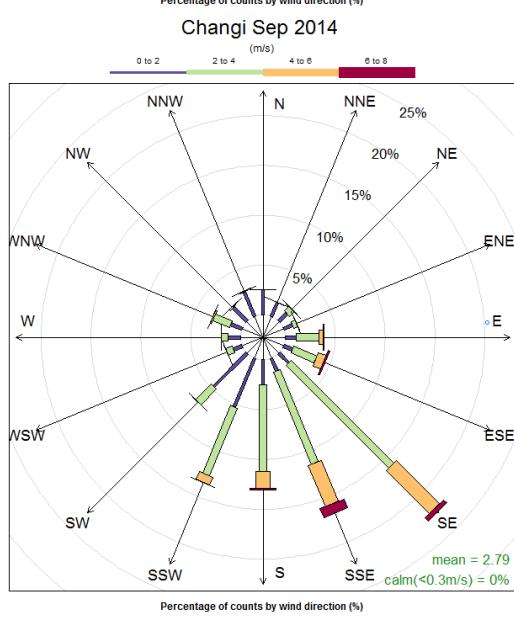
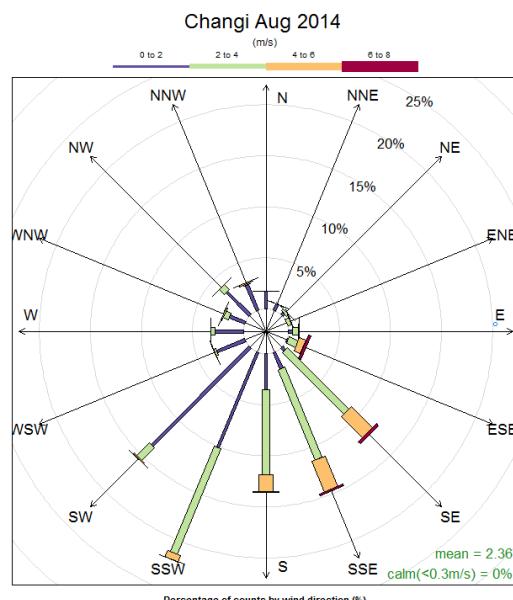
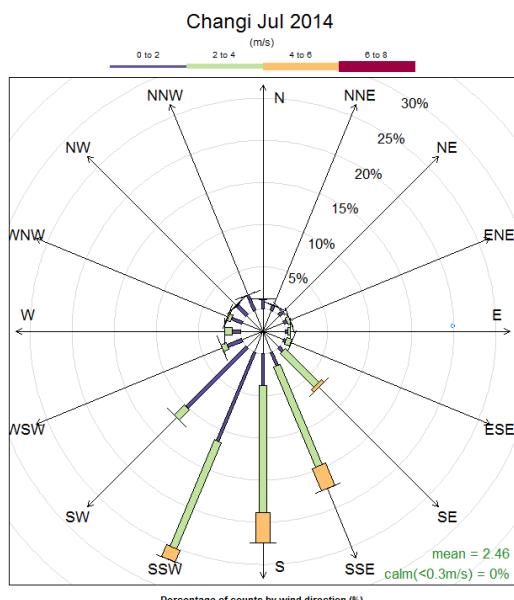






11.2. Monthly Wind Rose of Changi Climate Station





12. Upper Air Data⁴

⁴ There were no upper air soundings from July to October 2014 at 12 UTC timing

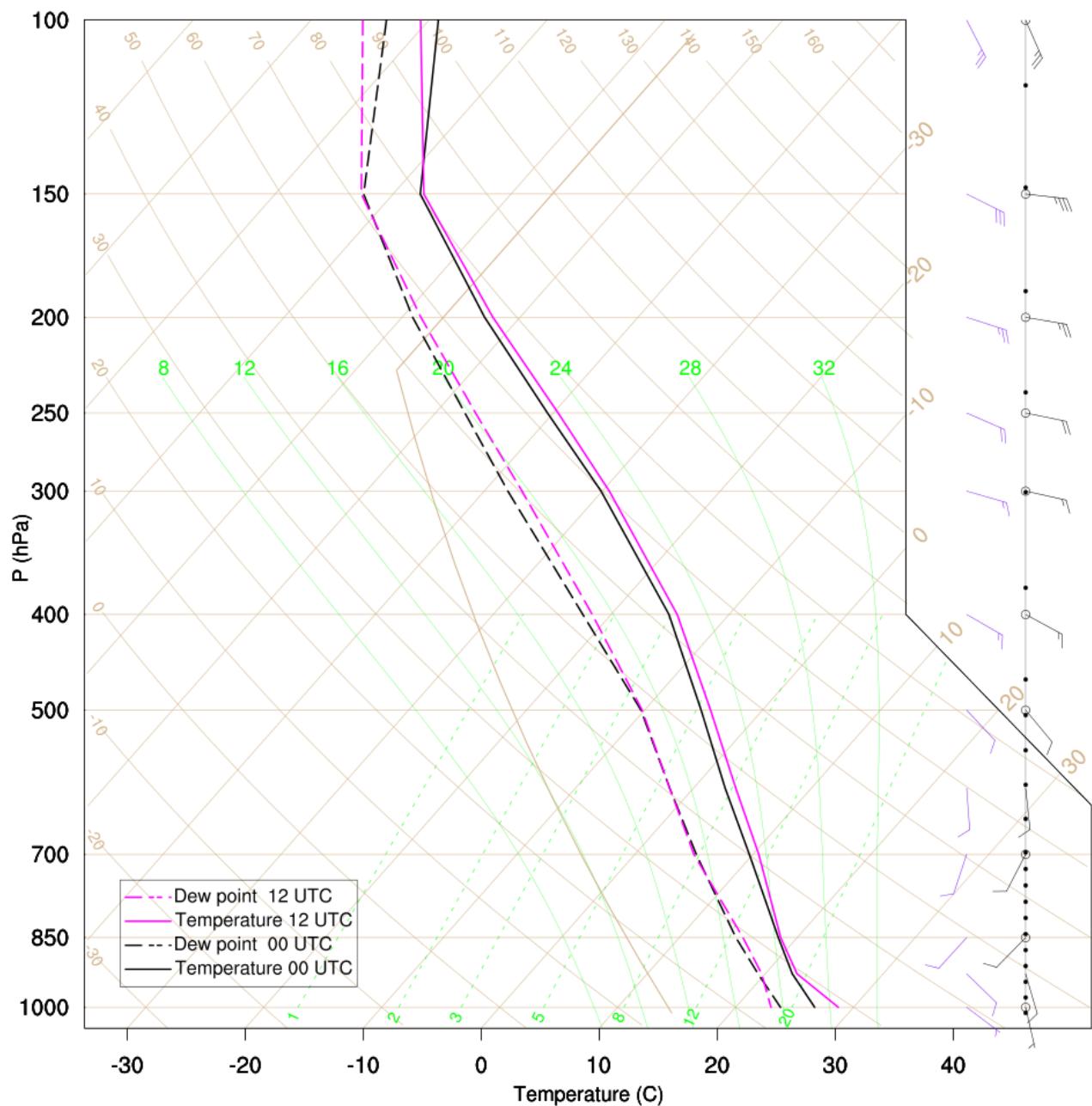
Temperature (°C) at 00 UTC and 12 UTC Singapore, 2014

Pressure	Time	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1000	00 UTC	25.7	25.3	27.0	27.3	27.4	27.5	27.2	27.0	27.4	27.1	26.3	25.3
	12 UTC	28.1	28.6	29.1	29.4	30.1	29.8	—	—	—	—	27.1	27.3
925	00 UTC	20.9	21.1	21.7	23.0	23.5	22.9	22.6	22.5	22.5	22.9	22.5	21.3
	12 UTC	21.1	21.5	22.1	23.7	24.0	24.2	—	—	—	—	22.2	22.5
850	00 UTC	17.4	18.2	18.6	18.8	19.1	19.1	18.4	18.1	18.6	18.7	18.4	17.6
	12 UTC	17.0	17.8	18.5	19.2	19.6	20.1	—	—	—	—	18.1	18.7
700	00 UTC	9.6	9.7	9.7	9.8	10.0	10.6	9.8	9.0	9.1	9.1	9.6	9.9
	12 UTC	10.3	10.1	10.7	10.3	10.8	11.3	—	—	—	—	10.2	10.1
600	00 UTC	2.1	3.5	2.6	3.0	3.1	3.1	2.7	2.3	2.4	2.8	2.7	2.6
	12 UTC	3.1	3.7	4.1	3.5	3.9	3.6	—	—	—	—	3.4	3.3
500	00 UTC	-5.3	-5.6	-5.0	-5.3	-5.0	-4.8	-5.0	-5.7	-5.5	-5.1	-4.9	-4.6
	12 UTC	-5.2	-4.7	-3.9	-4.3	-3.9	-4.1	—	—	—	—	-4.4	-4.6
400	00 UTC	-14.9	-15.7	-15.7	-15.0	-14.7	-15.0	-15.3	-15.5	-15.5	-14.8	-14.5	-14.3
	12 UTC	-15.1	-14.8	-14.8	-14.5	-13.9	-13.6	—	—	—	—	-14.4	-14.4
300	00 UTC	-30.6	-30.8	-30.1	-29.9	-29.4	-29.5	-30.2	-30.7	-30.8	-30.1	-29.4	-29.4
	12 UTC	-30.4	-30.4	-30.1	-29.2	-28.6	-28.4	—	—	—	—	-29.0	-29.0
250	00 UTC	-41.0	-41.3	-40.4	-40.2	-39.7	-39.7	-40.6	-41.0	-41.3	-40.6	-40.0	-39.9
	12 UTC	-40.7	-40.9	-40.1	-39.5	-38.8	-38.6	—	—	—	—	-39.1	-39.4
200	00 UTC	-53.8	-53.6	-52.7	-52.6	-52.1	-52.0	-53.0	-53.6	-53.7	-53.2	-52.8	-52.9
	12 UTC	-53.3	-53.4	-52.7	-52.1	-51.5	-51.4	—	—	—	—	-52.1	-52.2
150	00 UTC	-69.2	-68.0	-67.5	-67.2	-67.0	-66.8	-67.6	-67.8	-67.9	-68.0	-68.0	-67.9
	12 UTC	-68.2	-68.2	-67.7	-67.0	-66.6	-65.9	—	—	—	—	-67.7	-67.7
100	00 UTC	-77.9	-79.8	-80.8	-81.1	-79.3	-77.7	-76.8	-77.2	-77.4	-79.6	-82.6	-80.6
	12 UTC	-77.9	-79.4	-81.2	-81.1	-81.1	-79.7	—	—	—	—	-83.3	-82.1
70	00 UTC	-72.4	-74.6	-73.7	-75.5	-76.6	-71.7	-72.6	-69.6	-70.9	-73.8	-75.2	-78.4
	12 UTC	-73.8	-76.4	-79.0	-75.9	-75.3	-74.2	—	—	—	—	-76.0	-77.9
50	00 UTC	-68.4	-67.1	-67.3	-67.4	-66.1	-65.5	—	-65.3	-66.8	-68.9	-70.4	-70.8
	12 UTC	-70.3	-68.2	—	-68.3	-67.9	-67.0	—	—	—	—	-70.5	-72.5
30	00 UTC	-57.9	-59.5	-60.9	-59.0	-59.2	-58.5	—	-59.8	-60.2	-60.7	-59.1	-59.8
	12 UTC	-63.2	-61.9	—	-62.2	-60.5	-58.3	—	—	—	—	-62.4	-60.5
20	00 UTC	-55.0	-55.1	-56.0	-53.7	-50.5	-51.5	—	-53.8	-53.1	-53.4	-53.0	-54.0
	12 UTC	-55.8	-56.9	—	-55.1	-50.8	-50.7	—	—	—	—	-52.2	-49.8
10	00 UTC	—	-47.5	—	-41.2	—	-42.5	—	-45.9	-44.9	-41.3	-38.8	—
	12 UTC	—	-45.4	—	—	-39.9	—	—	—	—	—	—	—

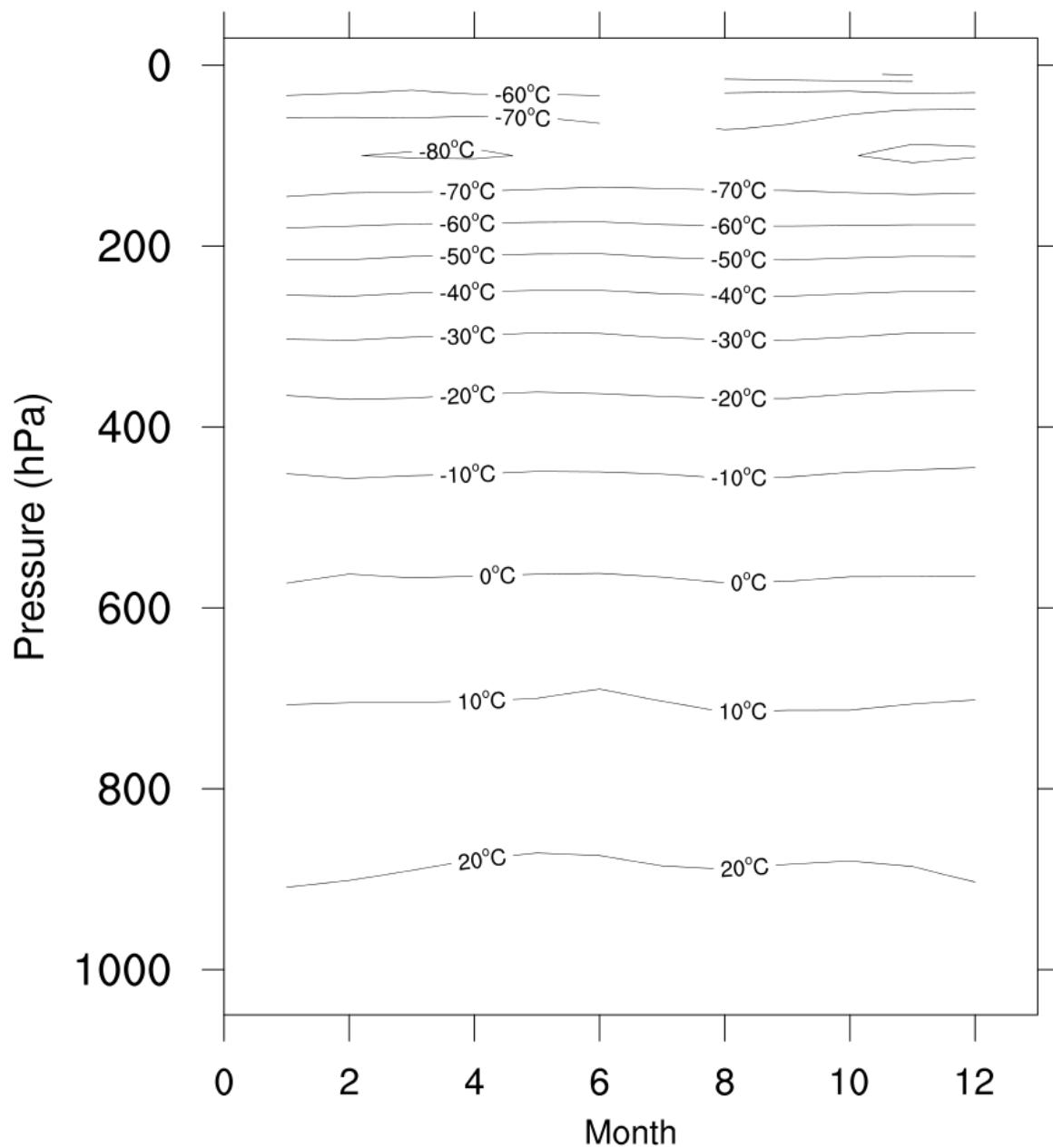
Dew Point (°C) at 00 UTC and 12 UTC Singapore, 2014

Pressure	Time	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1000	00 UTC	23.4	21.1	23.0	23.8	24.7	24.6	24.7	24.2	24.3	24.1	24.2	25.3
	12 UTC	21.5	21.1	22.4	22.8	24.5	24.5	—	—	—	—	23.5	27.3
925	00 UTC	19.0	17.5	19.0	19.6	20.8	19.8	19.7	19.4	18.8	18.8	20.0	21.3
	12 UTC	18.6	18.5	19.5	20.2	20.7	21.1	—	—	—	—	19.3	22.5
850	00 UTC	15.2	12.0	13.0	16.0	16.3	15.5	15.9	14.5	13.3	13.5	15.3	17.6
	12 UTC	14.6	14.2	15.4	16.4	16.1	15.5	—	—	—	—	15.2	18.7
700	00 UTC	5.2	-1.1	3.0	5.1	7.6	5.8	4.3	5.9	4.6	6.1	6.4	9.9
	12 UTC	3.1	-0.2	2.9	6.3	6.6	5.8	—	—	—	—	7.0	10.1
600	00 UTC	-1.2	-11.0	-4.9	-2.0	0.0	-0.7	-2.4	-1.1	-2.6	-2.0	0.1	2.6
	12 UTC	-3.3	-9.2	-5.0	-0.6	-0.9	-0.3	—	—	—	—	-0.1	3.3
500	00 UTC	-11.8	-14.5	-14.7	-9.6	-7.4	-8.5	-11.3	-9.0	-11.8	-11.2	-8.9	-4.6
	12 UTC	-12.2	-15.4	-13.9	-9.5	-10.2	-7.3	—	—	—	—	-8.2	-4.6
400	00 UTC	-22.4	-26.0	-27.2	-22.1	-22.5	-19.3	-22.3	-21.4	-24.2	-23.9	-20.6	-14.3
	12 UTC	-22.6	-27.8	-26.8	-21.9	-20.7	-18.6	—	—	—	—	-19.0	-14.4
300	00 UTC	-36.9	-41.1	-42.9	-38.2	-35.9	-36.5	-37.1	-37.9	-39.1	-39.5	-37.8	-29.4
	12 UTC	-36.8	-41.0	-40.3	-36.9	-36.9	-34.4	—	—	—	—	-34.6	-29.0
250	00 UTC	-47.1	-49.4	-50.6	-48.0	-47.1	-46.3	-44.8	-47.4	-48.6	-48.2	-47.2	-39.9
	12 UTC	-47.4	-50.6	-47.2	-47.4	-46.7	-45.2	—	—	—	—	-44.8	-39.4
200	00 UTC	-58.7	-61.0	-60.8	-59.1	-59.3	-57.8	-58.0	-59.2	-59.5	-60.0	-59.0	-52.9
	12 UTC	-59.0	-61.8	-58.6	-58.6	-58.5	-56.9	—	—	—	—	-57.0	-52.2
150	00 UTC	-72.7	-74.1	-73.8	-72.3	-72.4	-71.2	-71.6	-72.5	-72.6	-73.3	-72.8	-67.9
	12 UTC	-73.4	-75.3	-73.2	-72.4	-72.7	-70.8	—	—	—	—	-72.1	-67.7
100	00 UTC	-81.5	-84.8	-85.8	-84.5	-84.9	-81.9	-80.9	-82.5	-82.6	-84.1	-86.6	-80.6
	12 UTC	-82.6	-86.4	-86.0	-85.5	-86.6	-84.5	—	—	—	—	-87.6	-82.1
70	00 UTC	-78.0	-81.6	-80.9	-80.8	-83.4	-80.0	-78.4	-87.2	-89.7	-87.1	-87.4	-78.4
	12 UTC	-80.0	-84.1	-86.2	-82.2	-82.0	-81.6	—	—	—	—	-86.8	-77.9
50	00 UTC	-82.0	-76.7	-77.3	-73.3	-73.7	-77.5	—	-93.8	-94.9	-96.4	-97.4	-70.8
	12 UTC	-78.3	-77.2	—	-75.6	-75.5	-85.9	—	—	—	—	-97.5	-72.5
30	00 UTC	-88.6	-75.2	-76.8	-68.3	-70.6	-74.4	—	-90.0	-90.2	-90.6	-89.5	-59.8
	12 UTC	-70.8	-74.4	—	-69.1	-70.8	-88.9	—	—	—	—	-91.8	-60.5
20	00 UTC	-86.6	-77.2	-77.6	-66.0	-66.1	-71.3	—	-85.8	-85.3	-85.5	-85.2	-54.0
	12 UTC	-65.2	-73.3	—	-62.2	-67.1	-83.7	—	—	—	—	-84.7	-49.8
10	00 UTC	—	-77.1	—	-60.0	—	-70.1	—	-80.4	-79.7	-77.3	-75.6	—
	12 UTC	—	-71.7	—	—	-69.9	—	—	—	—	—	—	—

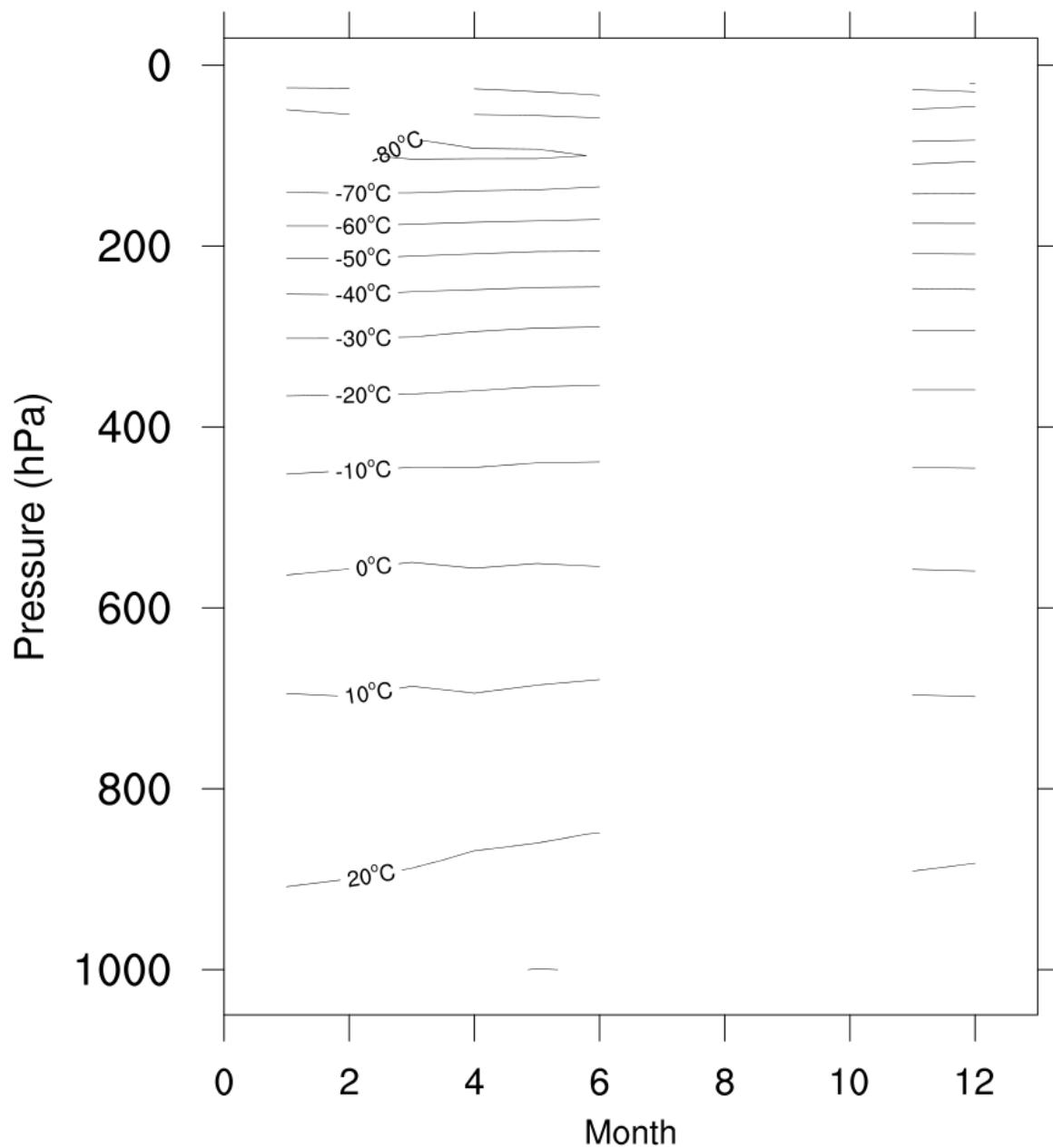
Skew-T: Annual Profile



Monthly Mean Temperature ($^{\circ}\text{C}$) at 00 UTC in 2014



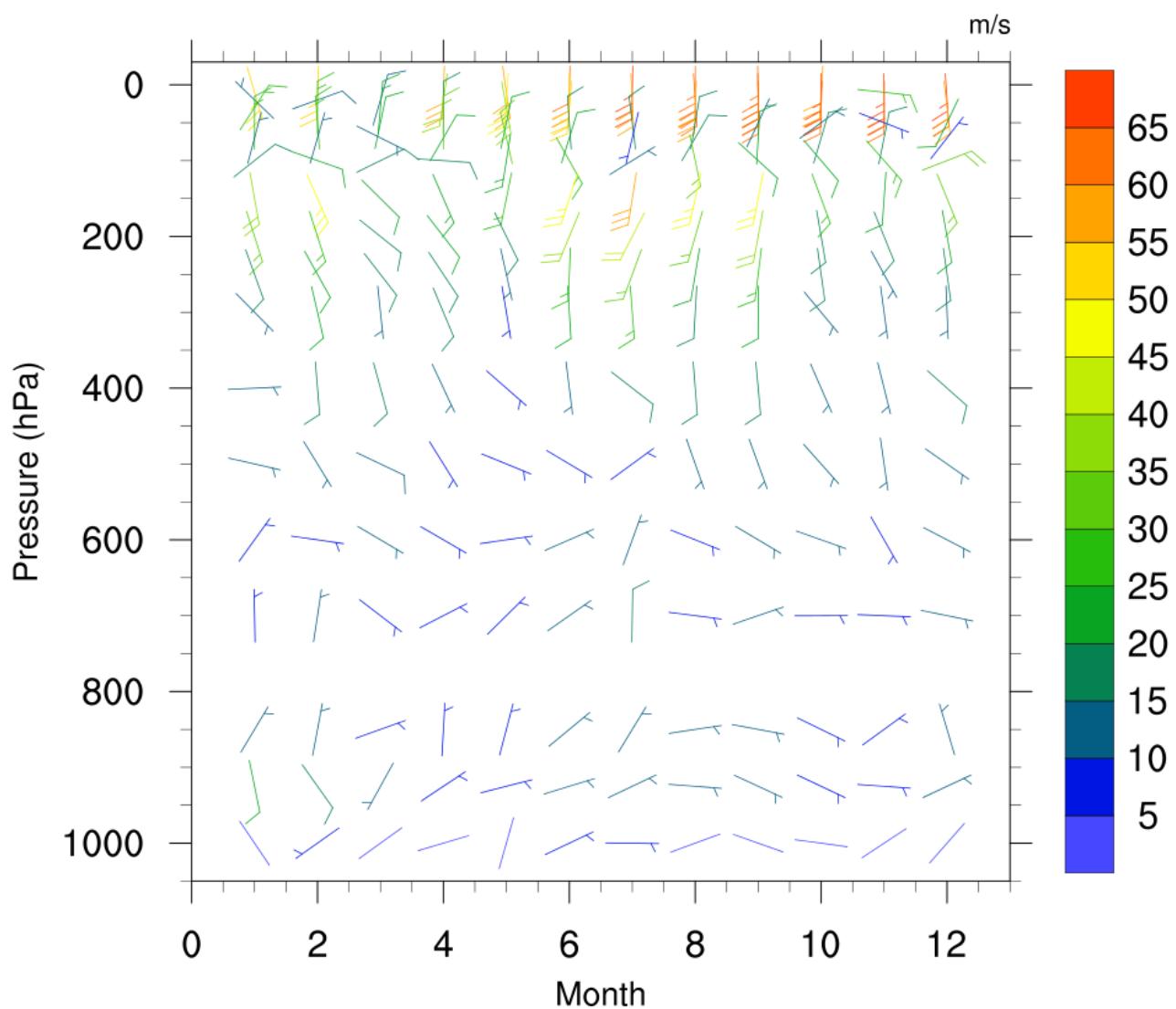
Monthly Mean Temperature ($^{\circ}\text{C}$) at 12 UTC in 2014



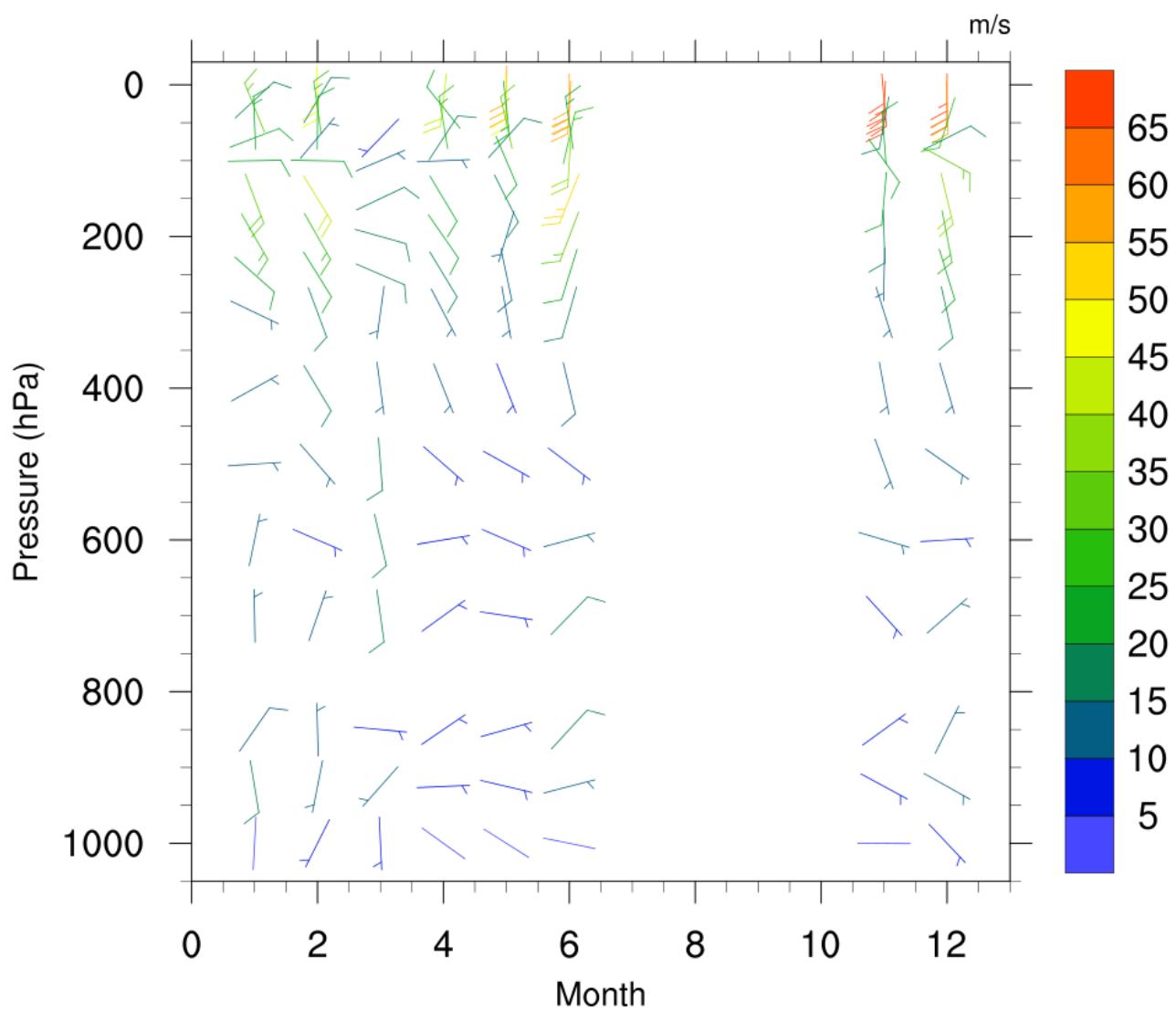
Wind Speed (m/s) at 00 UTC and 12 UTC Singapore, 2014

Pressure	Time	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1000	00 UTC	4.4	6.8	4.0	2.0	2.3	5.3	7.1	4.5	4.4	4.0	3.9	25.3
	12 UTC	3.2	6.9	5.4	1.9	2.1	4.2	—	—	—	—	4.1	27.3
925	00 UTC	21.8	16.6	13.9	6.4	7.5	11.7	11.2	11.9	12.7	8.2	7.8	21.3
	12 UTC	19.6	13.6	14.0	6.5	7.3	11.2	—	—	—	—	7.8	22.5
850	00 UTC	11.6	12.0	8.8	5.9	5.5	12.1	12.2	10.1	11.1	9.1	8.6	17.6
	12 UTC	14.7	13.1	7.6	5.6	6.0	16.7	—	—	—	—	7.2	18.7
700	00 UTC	9.4	11.0	9.9	6.6	6.7	12.9	15.1	8.3	10.5	8.8	8.2	9.9
	12 UTC	12.4	10.2	15.4	6.2	6.9	15.1	—	—	—	—	8.1	10.1
600	00 UTC	6.2	9.0	10.5	8.0	5.8	11.3	12.0	8.4	12.2	10.1	9.4	2.6
	12 UTC	10.9	9.2	16.1	6.9	8.8	11.4	—	—	—	—	10.5	3.3
500	00 UTC	12.0	11.7	14.8	8.8	7.7	9.3	9.5	10.5	10.4	11.4	11.8	-4.6
	12 UTC	12.6	11.4	17.3	8.9	9.5	9.5	—	—	—	—	10.6	-4.6
400	00 UTC	11.9	17.3	15.3	11.3	6.7	12.7	17.5	16.3	17.3	12.1	11.9	-14.3
	12 UTC	11.9	17.9	13.6	11.5	8.2	14.8	—	—	—	—	10.3	-14.4
300	00 UTC	10.1	20.3	11.6	15.2	7.7	20.6	27.2	17.7	21.4	11.5	11.1	-29.4
	12 UTC	11.2	19.7	12.3	14.2	11.9	18.9	—	—	—	—	12.3	-29.0
250	00 UTC	18.1	22.0	15.1	19.3	12.7	28.3	31.2	23.2	26.2	15.6	13.0	-39.9
	12 UTC	20.4	22.1	17.1	17.0	14.6	24.0	—	—	—	—	13.7	-39.4
200	00 UTC	30.2	28.5	18.7	23.6	16.7	37.2	41.0	33.2	35.5	19.9	17.0	-52.9
	12 UTC	27.1	29.6	15.6	21.0	13.7	32.1	—	—	—	—	16.7	-52.2
150	00 UTC	39.5	46.3	23.2	24.3	25.3	45.9	58.4	46.1	49.0	29.0	23.0	-67.9
	12 UTC	34.5	43.2	18.7	20.9	15.3	50.3	—	—	—	—	21.7	-67.7
100	00 UTC	17.3	23.8	18.6	19.0	24.5	27.5	12.0	30.9	20.7	20.3	28.4	-80.6
	12 UTC	22.1	21.4	10.6	14.5	23.8	36.5	—	—	—	—	20.7	-82.1
70	00 UTC	10.5	13.6	11.4	23.7	30.7	22.4	7.0	19.4	22.4	15.2	18.0	-78.4
	12 UTC	20.7	12.9	8.0	18.5	19.4	27.8	—	—	—	—	23.2	-77.9
50	00 UTC	27.0	25.8	22.8	30.2	21.3	20.0	17.0	16.4	14.1	12.1	9.8	-70.8
	12 UTC	24.3	21.2	—	30.0	30.5	24.8	—	—	—	—	19.0	-72.5
30	00 UTC	29.0	26.5	24.8	19.8	35.5	50.9	—	57.9	61.9	63.6	60.5	-59.8
	12 UTC	31.0	25.9	—	22.3	24.9	59.0	—	—	—	—	67.0	-60.5
20	00 UTC	13.0	14.7	15.0	35.3	48.0	54.4	60.0	60.1	63.4	69.9	68.3	-54.0
	12 UTC	19.0	17.9	—	41.5	48.7	60.0	—	—	—	—	78.0	-49.8
10	00 UTC	53.0	52.8	—	57.4	57.0	61.9	70.0	64.9	64.6	58.5	25.8	—
	12 UTC	—	49.4	—	—	55.3	—	—	—	—	—	—	—

Wind Profile at 00 UTC in 2014

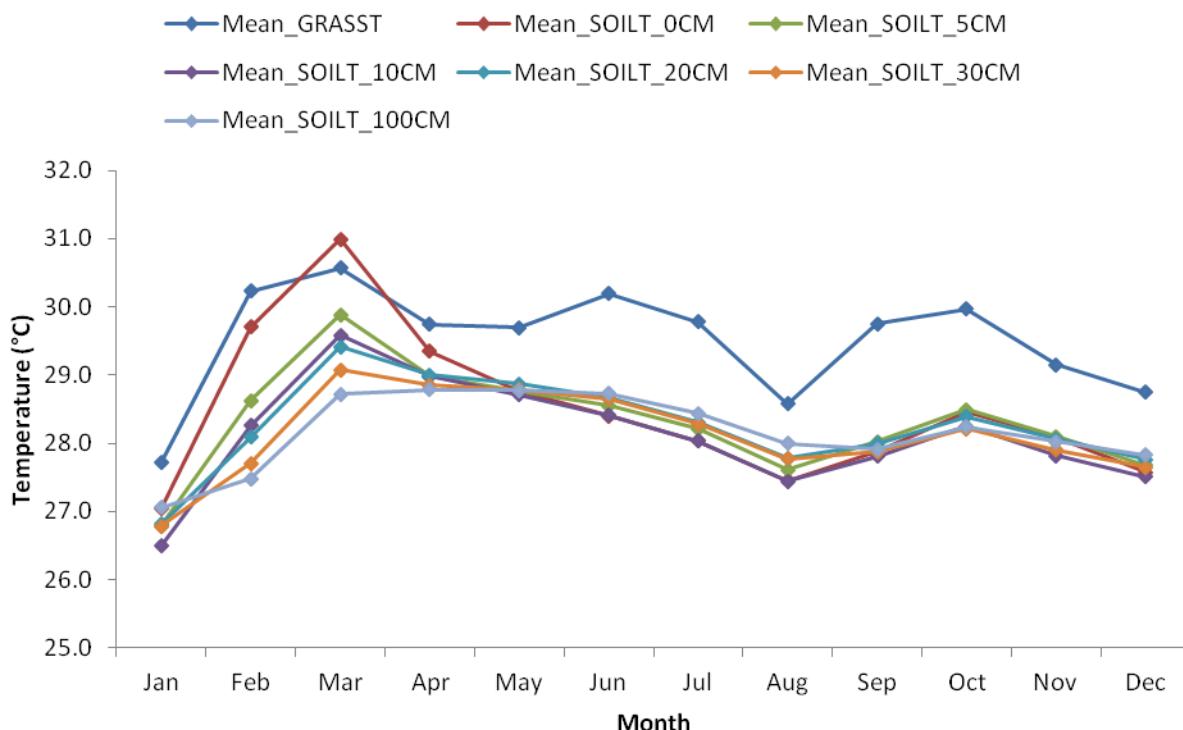


Wind Profile at 12 UTC in 2014

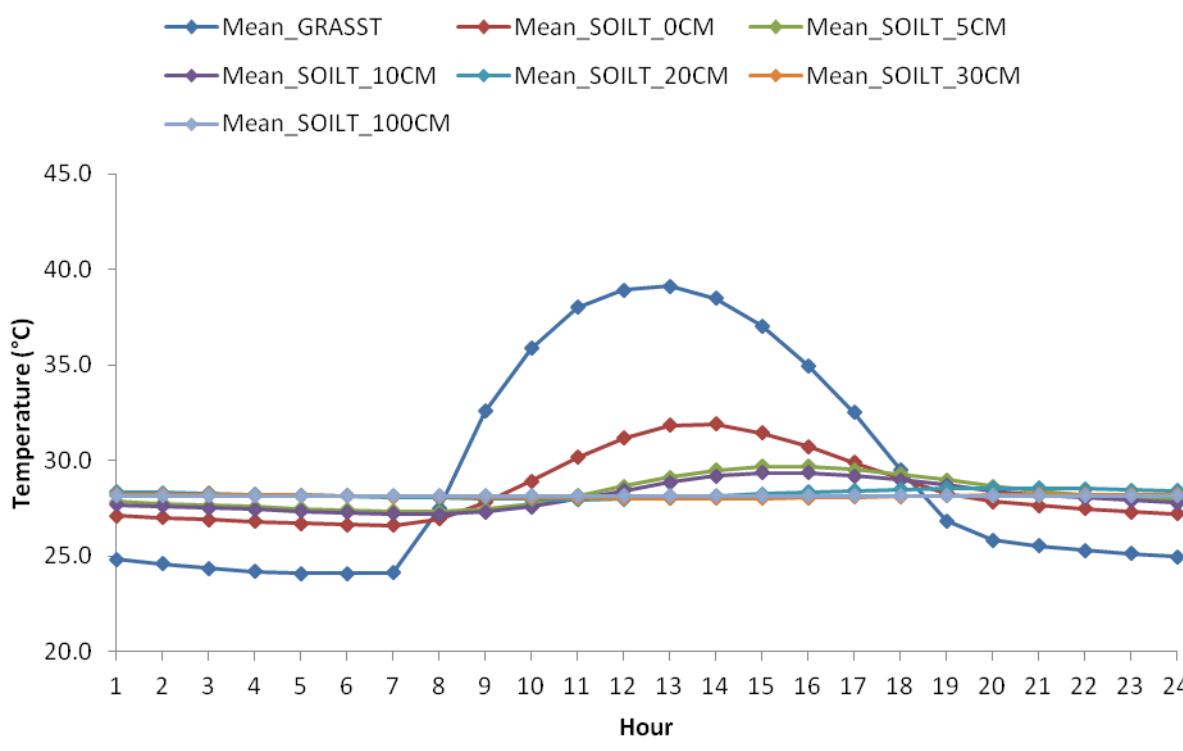


13. Soil Data

Changi Monthly Soil Temperature



Changi Hourly Soil Temperature



Annex 1 Instruments of the Manned Meteorological Station

Since 1984, the manned meteorological station serving the Changi International Airport has been designated as the Climate Station of Singapore. The locations of the other 4 manned stations are at Paya Lebar, Tengah, Seletar, and Sembawang. The Paya Lebar station is the longest serving meteorological station, which has been operational since the 1950s. The Changi station operates 24 hours every day while the other 4 meteorological stations record observations only from 4 am to 11 pm.

ID	Station	Parameters	Operational Period	Instruments	Location
24	Changi Climate Station	Pressure	1 Jun, 1981 to 1 Nov, 2010	WilhLambrecht ⁴	Indoor
			1 Nov, 2010 to Present	Vaisala ⁵	Outdoor
		Temperature	1 Jun, 1981 to 1 Aug, 2011	Zeal/Casella (Mercury) ⁶	Outdoor
			1 Aug, 2011 to Present	Vaisala	Outdoor
		Humidity	1 Jun, 1981 to 1 Aug, 2011	Zeal/Casella (Mercury)	Outdoor
			1 Aug, 2011 to Present	Vaisala	Outdoor
		Surface Wind	1 Jun, 1981 to 1 Aug, 2011	Munro Pressure Tube ⁷	Outdoor
			1 Aug, 2011 to Present	Vaisala	Outdoor
		Rainfall	1 Jun, 1981 to 1 Nov, 2010	Munro Rain Gauges ⁷	Outdoor
			1 Nov, 2010 to Present	Vaisala	Outdoor
06	Paya Lebar Meteorological Station	Evaporation	1 Jun, 1981 to 1 Nov, 2010	A Class Evap Pan	Outdoor
			1 Nov, 2010 to Present	Vaisala	Outdoor
		Sunshine	1 Jun, 1981 to Present	Campbell-stokes recorder	Outdoor
		Pressure	1 Aug, 1955 to 1 Jan, 1982	F Darton& Company ⁸	Indoor
			1 Jan, 1982 to Present	Negretti and Zambra ⁹	Outdoor
23	Tengah Meteorological Station	Temperature	1 Aug, 1955 to 1 Aug, 1981	Zeal/Casella (Mercury)	Outdoor
			1 Aug, 1981 to Present	Casella	Roof top
		Humidity	1 Aug, 1955 to 1 Aug, 1981	Zeal/Casella (Mercury)	Outdoor
			1 Aug, 1981 to Present	Casella	Roof top
		Rainfall	1 Aug, 1955 to 1 Aug, 1981	Munro Rain Gauges	Outdoor
			1 Aug, 1981 to Present	Munro Rain Gauges	Roof top
25	Seletar Meteorological Station	Pressure	1 Jan, 1950 to 1 Oct, 2003	THIES Clima	Indoor
			1 Oct, 2003 to Present	Sutron Corp	Indoor
		Temperature	1 Jan, 1950 to 1 Oct, 2003	Zeal/Casella (Mercury)	Outdoor
			1 Oct, 2003 to Present	Sutron Corp	Outdoor
		Humidity	1 Jan, 1950 to 1 Oct, 2003	Zeal/Casella (Mercury)	Outdoor
			1 Oct, 2003 to Present	Sutron Corp	Outdoor
		Rainfall	1 Jan, 1950 to Present	Munro Rain Gauges	Outdoor
		Pressure	1 May, 1970 to 31 May, 2005	THIES Clima ¹⁰	Indoor
			1 Jun, 2005 to Present	ALMOS/ Vaisala	Outdoor
		Temperature	1 May, 1970 to 31 May, 2005	Zeal/Casella (Mercury)	Outdoor
			1 Jun, 2005 to Present	ALMOS/ Vaisala	Outdoor
		Humidity	1 May, 1970 to 31 May, 2005	Zeal/Casella (Mercury)	Outdoor
			1 Jun, 2005 to Present	ALMOS/ Vaisala	Outdoor
		Rainfall	1 May, 1970 to Present	Munro Rain Gauges	Outdoor

⁴www.lambrecht.net

⁵www.vaisala.com

⁶www.zeal.co.uk and www.casellameasurement.com/cl_ne_manual.htm

⁷www.munroinstruments.com

⁸www.russell-scientific.co.uk

⁹www.negrettiandzambra.co.uk

¹⁰www.thiesclima.com/air-pressure.html

ID	Station	Parameters	Operational Period	Instruments	Location
80	Sembawang Meteorological Station	Pressure	1 Apr, 1986 to 30 Sep, 2003	WilhLambrecht	Indoor
			1 Oct, 2003 to Present	Sutron Corp ¹¹	Indoor
		Temperature	1 Apr, 1986 to 30 Sep, 2003	Zeal/Casella (Mercury)	Outdoor
			1 Oct, 2003 to Present	Sutron Corp	Outdoor
		Humidity	1 Apr, 1986 to 30 Sep, 2003	Zeal/Casella (Mercury)	Outdoor
			1 Oct, 2003 to Present	Sutron Corp	Outdoor
		Rainfall	1 Apr, 1986 to Present	Munro Rain Gauges	Outdoor

Table 6: Instruments and their operational dates at the Manned Meteorological Stations

¹¹www.sutron.com

Annex 2 Instruments of the Manual Rainfall Station

Before the AWSs system, there were a number of manual rain gauges in operation in Singapore. Rainfall was recorded on continuous strips of paper rolls, and operators had to visit the stations once a week to collect and replace them. Among the rain gauges used in the past were the natural siphon rain gauge, the tilting siphon rain gauge and the Hellmann rain gauge.

The tilting siphon rain gauge, produces an autographic record of rainfall accumulation from a pen attached to a float in the rainfall chamber of the instrument. The chamber tilts and empties when the pen reaches the top of the chart at 25mm rainfall. Siphoning starts when the chamber tilts.

The natural siphon rain gauge works in a similar mechanism as the tilting siphon rain gauge except the way in which it siphons. It consists of two coaxial tubes to the sides of the float container. The annular gap between the inner and outer tubes is so small that siphoning can start abruptly when water reaches the top of the tube without any mechanical trigger.

The Hellman rain gauge is an autographic rain gauge with 200cm² circular collecting area. Measuring 453mm tall, it consists of a protective housing, tunnel, built-in measuring vessel with float and siphoning device, and records on a clockwork driven drum with nominal recording period of 7 days.

Station Number	Location	Operational Period		Instruments	Lat.(N)	Long. (E)
07	Macritchie Reservoir	1 Jan, 1953	26 May, 1982	Natural	1°20.51	103°50.03
	Macritchie Reservoir	27 May, 1982	7 May, 1987	Tilting	1°20.51	103°50.03
	Macritchie Reservoir	8 May, 1987	Present	Hellmann	1°20.51	103°50.03
	Macritchie Reservoir	12 Feb, 2009	Present	Vaisala	1°20.51	103°50.03
11	Ama Keng Police Station	1 Feb, 1954	26 Nov, 1984	Tilting	1°24.00	103°42.00
	Ama Keng Police Station	27 Nov, 1984	30 Jun, 1988	Hellmann	1°24.00	103°42.00
	Ama Keng Telephone Exchange	1 Jul, 1988	31 Oct, 2003	Hellmann	-	-
	Choa Chu Kang Cemetery Office	1 Nov, 2003	30 Sep, 2009	Hellmann	1°22.47	103°41.63
	Choa Chu Kang Cemetery Office	5 Mar, 2009	Present	Vaisala	1°22.46	103°41.62
29	Serangoon Sewage Treatment Work	1 Jan, 1949	20 Mar, 1975	-	1°23.15	103°55.41
	Serangoon Sewage Treatment Work	21 Mar, 1975	29 Apr, 1977	Natural	1°23.15	103°55.41
	Serangoon Sewage Treatment Work	30 Apr, 1977	30 Apr, 1987	Tilting	1°23.15	103°55.41
	Serangoon Sewage Treatment Work	1 May, 1987	30 Jun, 2010	Hellmann	1°23.15	103°55.41
	Pasir Ris Home Team Chalets	5 May, 2010	Present	Vaisala	1°23.19	103°56.48
31	Singapore Harbour Board Gate 9	1 Mar, 1948	30 Sep, 1976	Tilting	1°16.00	103°49.00
	Saint James Complex	1 Jun, 1976	15 Apr, 1986	Tilting	1°15.93	103°49.47
	Saint James Complex	16 Apr, 1986	31 Mar, 2010	Hellmann	1°15.93	103°49.47
	CHIJ (Kellock) Primary School	28 Apr, 2010	Present	Vaisala	1°16.46	103°49.69
33	Tanjong Kling Police Station	01 Jan, 1953	31 Dec, 1969	Tilting	1°18.50	103°43.00
	Tanjong Kling Police Station	01 Jan, 1973	25 Sep, 1977	Hellmann	1°18.50	103°43.00
	Marine Police Station Jurong Pier	26 Sep, 1977	31 Aug, 1999	Hellmann	-	-
	Jurong Pier Road	1 Sep, 1999	30 Apr, 2010	Hellmann	1°18.49	103°42.60
	Jurong Pier Road	3 Feb, 2010	Present	Vaisala	1°18.49	103°42.59
35	Ulu Pandan Sewage Treatment Work	19 Jun, 1975	30 Nov, 1981	Tilting	1°19.97	103°45.34
	Ulu Pandan Sewage Treatment Work	1 Dec, 1981	1 Mar, 2010	Hellmann	1°19.97	103°45.34
	Ulu Pandan Sewage Treatment Work	27 Feb, 2009	Present	Vaisala	1°19.95	103°45.30
36	Woodleigh Filter	1 Dec, 2000	Mar, 2010	Hellmann	1°20.29	103°51.94
	Woodleigh Filter	19 Jul, 2009	Present	Vaisala	1°20.26	103°51.97
39	Kampong Java Teban	1 Nov, 1963	31 Dec, 1976	Tilting	-	-

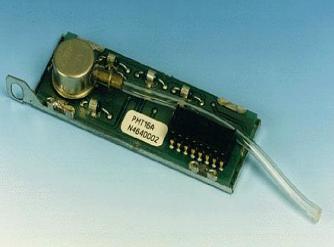
Station Number	Location	Operational Period		Instruments	Lat.(N)	Long. (E)
	Jurong Industrial Waterworks	1 Jan, 1977	23 Sep, 1987	Tilting	1°19.51	103°44.21
	Jurong Industrial Waterworks	24 Sep, 1987	Present	Hellmann	1°19.51	103°44.21
	Jurong Industrial Waterworks	29 Dec, 2009	Present	Vaisala	1°19.51	103°44.21
40	Singapore Orchid's	16 Oct, 1965	7 May, 1987	Tilting	1°24.40	103°47.00
	Singapore Orchid's	8 May, 1987	31 Mar, 2010	Hellmann	1°24.40	103°47.00
	Singapore Orchid's	11 Dec, 2009	Present	Vaisala	1°24.40	103°46.99
43	Upper Air Observatory	1 Apr, 1962	31 Dec, 2011	Tilting	1°20.44	103°53.29
	Upper Air Observatory	28 Apr, 2011	Present	Vaisala	1°20.44	103°53.29
44	Nanyang Technical University	1 Apr, 1967	31 Dec, 1971	Tilting	1°20.71	103°41.00
	Nanyang Technical University	1 Jan, 1972	31 Aug, 2009	Hellmann	1°20.71	103°41.00
	Nanyang Technological University	17 Mar, 2009	Present	Vaisala	1°20.71	103°41.00
46	Singapore Golf Club	1 Sep, 1967	3 Mar, 1978	Natural	1°20.50	103°48.64
	Singapore Golf Club	4 Mar, 1978	31 Mar, 2010	Hellmann	1°20.50	103°48.64
	Singapore Golf Club	21 Jan, 2010	Present	Vaisala	1°20.49	103°48.65
50	Singapore Boy's Home	1 Nov, 1968	31 Aug, 1973	Tilting	-	-
	Singapore Boy's Home	1 Sep, 1973	31 Oct, 1994	Hellmann	-	-
	Ngee Ann Polytechnic	1 Nov, 1994	30 Jun, 2010	Hellmann	1°19.91	103°46.57
	Ngee Ann Polytechnic	14 Apr, 2010	Present	Vaisala	1°19.91	103°46.57
55	Trafalgar Station	12 Apr, 1973	30 Aug, 1979	Tilting	1°23.00	103°54.00
	Trafalgar Station	31 Aug, 1979	24 Mar, 1997	Hellmann	1°23.00	103°54.00
	Woodbridge Hospital	25 Mar, 1997	3 Jan, 2010	Hellmann	1°23.01	103°53.16
	Woodbridge Hospital	6 Nov, 2008	Present	Vaisala	1°23.02	103°53.16
60	Sentosa Telecom Station	1 May, 1972	15 Jan, 1976	-	1°14.87	103°50.18
	Sentosa Telecom Station	16 Jan, 1976	31 Dec, 1980	Tilting	1°14.87	103°50.18
	Sentosa Telecom Station	1 Jan, 1981	1 Apr, 2010	Hellmann	1°14.87	103°50.18
	Sentosa	4 Mar, 2010	Present	Vaisala	1°15.02	103°49.65
61	Opera Estate	1 Jan, 1976	31 Dec, 1981	Tilting	1°19.00	103°55.00
	Chai Chee Pumping Station	1 Jan, 1982	21 Oct, 1987	Hellmann	-	-
	Chai Chee Complex	22 Oct, 1987	4 Apr, 2010	Hellmann	1°19.38	103°55.30
	Ping Yi Secondary School	15 Dec, 2009	Present	Vaisala	1°19.63	103°55.24
63	International Road Pumping Station	1 Nov, 1976	17 Aug, 1982	Tilting	1°19.65	103°42.25
	International Road Pumping Station	18 Aug, 1982	3 Nov, 2009	Hellmann	1°19.65	103°42.25
	International Road Pumping Station	24 Mar, 2009	Present	Vaisala	1°19.65	103°42.25
64	Bukit Panjang Sewage Treatment Work	28 Nov, 1977	30 Nov, 1984	Tilting	-	-
	Bukit Panjang Telephone Exchange	1 Dec, 1984	31 Mar, 2010	Hellmann	1°22.94	103°45.64
	Bukit Panjang Telecom	7 Dec, 2009	Present	Vaisala	1°22.94	103°45.64
66	Kranji Reservoir	1 Jan, 1978	2 Nov, 2009	Hellmann	1°26.32	103°44.16
	Kranji Reservoir	23 Oct, 2008	Present	Vaisala	1°26.32	103°44.16
71	Kent Ridge Met. Station	1 Oct, 1980	11 Apr, 1984	Tilting	1°18.10	103°46.42
	Kent Ridge Road	12 Apr, 1984	3 Jan, 2010	Hellmann	1°17.54	103°46.89
	Kent Ridge Road, CRISP	24 Mar, 2009	Present	Vaisala	1°17.54	103°46.89
72	Prince Edward Road	1 Jul, 1982	Present	Hellmann	1°16.43	103°50.89
	Prince Edward Road	27 Jan, 2010	Present	Vaisala	1°16.43	103°50.89
77	Clarence Lane Pumping Station	1 Jan, 1980	23 Apr, 1990	Tilting	1°17.40	103°48.90
	Clarence Lane Pumping Station	24 Apr, 1990	14 Dec, 1998	Hellmann	1°17.40	103°48.90
	MOE Kay Siang Road	15 Dec, 1998	1 Apr, 2010	Hellmann	1°17.10	103°48.80
	Queenstown Secondary School	23 Nov, 2009	Present	Vaisala	1°17.62	103°48.76
78	Poole Road	1 Jul, 1977	24 Aug, 1984	Tilting	1°18.42	103°53.44
	Poole Road	25 Aug, 1984	4 Jan, 2010	Hellmann	1°18.42	103°53.44
	Poole Road Pumping Station	24 Sep, 2008	Present	Vaisala	1°18.42	103°53.44
79	Power Building Somerset/ Triple One	1 Sep, 1984	Present	Hellmann	1°18.02	103°50.23
	Triple One Somerset Building	24 Mar, 2011	Present	Vaisala	1°18.02	103°50.23
81	Punggol Port Road	1 Jun, 1986	31 Dec, 2002	Hellmann	1°24.40	103°55.10

Station Number	Location	Operational Period		Instruments	Lat.(N)	Long. (E)
	Punggol 17 th Ave	1 Jan, 2003	28 Feb, 2010	Hellmann	1°25.00	103°54.32
	Punggol Secondary School	4 Jun, 2009	Present	Vaisala	1°24.17	103°54.57
82	Tuas Incinerator	1 Aug, 1986	1 Jul, 2010	Hellmann	1°19.48	103°38.11
	Tuas Incinerator	3 Mar, 2009	Present	Vaisala	1°19.49	103°38.11
89	Tuas Fire Station	1 Jan, 1999	14 Sep, 2010	Hellmann	1°19.19	103°39.68
	Tuas Fire Station	2 Oct, 2008	Present	Vaisala	1°19.19	103°39.68
90	CCAB Bukit Timah Road	1 Jun, 1995	2 Nov, 2009	Hellmann	1°19.15	103°49.16
	CCAB Bukit Timah Road	3 Mar, 2009	Present	Vaisala	1°19.15	103°49.16
91	Yishun Ave 5	1 Jul, 1995	1 Oct, 2009	Hellmann	1°25.80	103°49.84
	Yishun Ave 5	19 May, 2009	Present	Vaisala	1°25.80	103°49.84
92	NACLI, South Buona Vista	1 Sep, 1995	Present	Hellmann	1°17.05	103°47.33
	NACLI, South Buona Vista	2 Mar, 2009	Present	Vaisala	1°17.05	103°47.33
94	Pasir Ris Street 51	1 Feb, 1999	1 Jul, 2010	Hellmann	1°21.97	103°57.17
	Coral Secondary School	18 Mar, 2010	Present	Vaisala	1°22.08	103°56.94

Table 7: Locations and instruments of the Manual Rainfall Stations

Annex 3 Instruments of the Automatic Weather Station

MSS employs an array of sensors and instruments that measures and records different meteorological parameters. These include radiation shield sensor, ultrasonic wind sensor, temperature and humidity sensor, electronic tipping bucket rain gauge, and pressure sensor. Information recorded by these sensors is transmitted wirelessly to the Main Meteorological Office located at terminal building of the Changi International Airport.

Instruments	General Specifications	Reference Picture
Vaisala Rain Gauge RG13	<ul style="list-style-type: none"> • Contact closure every 0.2 mm • Constant flow rate from siphoning device at base of funnel • Area of aperture 400 cm² 	
Vaisala HMP45A and HMP45D Relative Humidity and Temperature Probes, Vaisala HUMICAP® Sensor	<ul style="list-style-type: none"> • Measurement range from -39.2 to 60 °C and 0.8 to 100% RH • Output scale from -40 to 60 °C and 0 to 100 % RH • Uncertainty at 20 °C is ± 0.2 °C, ± 2% RH for 0 to 90 % RH and ± 3% RH for 90 to 100 % RH 	
Vaisala DTR503 Radiation Shield	<ul style="list-style-type: none"> • 12 plate plastic shield to house humidity and temperature sensors • White outer surface, black inner surface 	
Vaisala WMT50 Ultrasonic Wind Sensor	<ul style="list-style-type: none"> • Measuring range from 0 to 60 m/s • Response time 0.25 s • Accuracy (0 to 35 m/s) ± 0.3 m/s or ± 3%, whichever is greater • Accuracy (35 to 60 m/s) ± 5% • Accuracy (wind direction) ± 3% 	
Vaisala PMT16A Pressure Sensor	<ul style="list-style-type: none"> • Measurement range from 600 to 1100 hPa • Total uncertainty ± 0.3 hPa 	

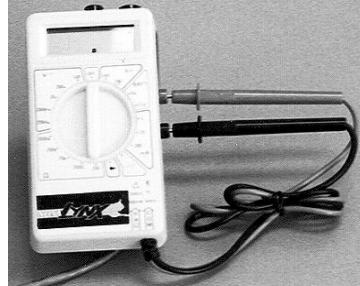
Kipp & Zonen CNR 1 Net Radiometer	<ul style="list-style-type: none"> • Measures short and long-wave radiation • Response time less than 18 seconds • Daily uncertainty $\pm 10\%$ 	
Kipp & Zonen CUV 4 Broadband UV Radiometer	<ul style="list-style-type: none"> • Spectral range 305 to 385 nm • Response time less than 1 second • Maximum irradiance 100 W/m² 	
Middleton Solar UVR1-B Narrow-band UV-B global spectral radiometer	<ul style="list-style-type: none"> • Spectral range 280 to 315 nm • Response time less than 0.5 second 	
Vaisala CL31 Celiometer	<ul style="list-style-type: none"> • Measurement range from 0 to 7.5 km • Measurement cycle adjustable between 2 and 120 seconds • Reporting resolution in 5 m 	
Vaisala FD12 Visibility Meter	<ul style="list-style-type: none"> • Measurement range from 10 to 50000 m • Instrument uncertainty $\pm 4\%$ 	
Nova Lynx Model 255-110 Evaporation Gauge Tester	<ul style="list-style-type: none"> • Measurement range from 0 to 10 inches • Reporting resolution in 0.01 inches • Uncertainty $\pm 0.25\%$ 	

Table 8: Current list of instruments in use in MSS