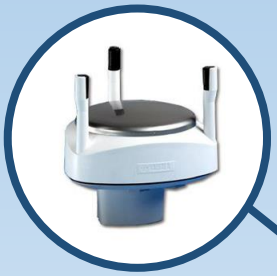
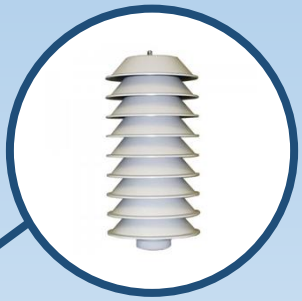
ANNUAL CLIMATOLOGICAL REPORT 2015



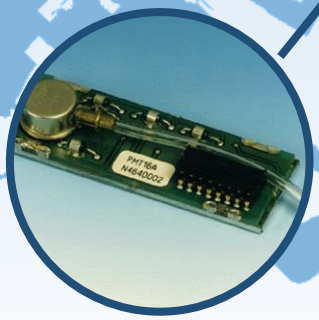














METEOROLOGICAL SERVICE SINGAPORE

Centre for Climate Research Singapore

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1. Introduction

The annual climatological report of the Meteorological Service Singapore (MSS) contains climate statistics for 58 automatic weather stations (AWSs), 5 manned meteorological stations and 1 upper air observatory (UAO). Among these AWSs island-wide, there are 40 rainfall-only stations and 18 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 climate 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 2015.

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 station 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 a long term annual average rainfall of 2,331 mm. Based on climate station 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 usually 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 currently operates 1 upper air station, 5 manned meteorological stations, and 58 automatic weather stations. The locations of these stations are shown in Figure 1.

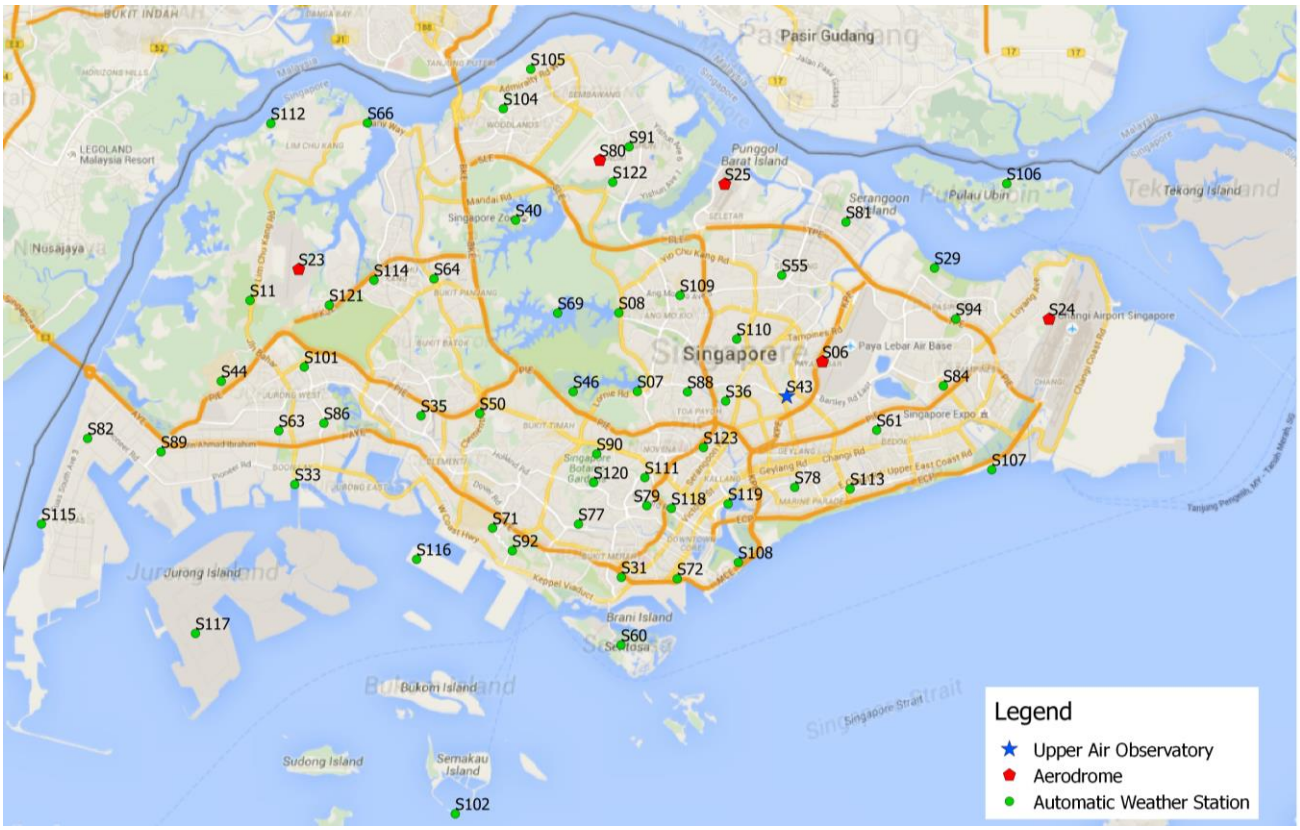


Figure 1: Locations of UAO, Manned Meteorological Stations and AWSs

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 climate 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 perform manual observations only from 5 am to 11 pm. The locations of these stations, given in decimal degree, 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	1.3678	103.9826	15
06	Paya Lebar Meteorological Station	1.3524	103.9007	34
23	Tengah Meteorological Station	1.3858	103.7114	17
25	Seletar Meteorological Station	1.4166	103.8654	17
80	Sembawang Meteorological Station	1.4252	103.8202	26

Table 2: Locations of the manned stations

ID	Station	Hellmann Rain Gauge	Thermometer	Hygrometer	Barometer	Sunshine Recorder	Soil Thermometer	Evaporation Tank	Operational Date
24	Changi Climate Station	1	1	1	1	1	1	1	01/01/1972
06	Paya Lebar Meteorological Station	1	1	1	1				01/08/1955
23	Tengah Meteorological Station	1	1	1	1				01/01/1950
25	Seletar Meteorological Station	1	1	1	1				01/04/1970
80	Sembawang Meteorological Station	1	1	1	1				01/04/1986

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

3.3. Automatic Weather Stations

The network of 58 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	1.3417	103.8338	25
08	Lower Peirce Reservoir	1.3701	103.8271	9
11	Choa Chu Kang (West)	1.3746	103.6938	22
24	Changi Climate Station	1.3678	103.9826	15
29	Pasir Ris (West)	1.3863	103.9412	10
31	Kampong Bahru	1.2745	103.8280	35
33	Jurong Pier	1.3081	103.7100	6
35	Ulu Pandan	1.3329	103.7556	13
36	Serangoon	1.3382	103.8657	9
40	Mandai	1.4036	103.7898	38
43	Tai Seng	1.3399	103.8878	36
44	Jurong (West)	1.3455	103.6806	84

ID	Station	Position		Elevation above mean sea-level (m)
		Lat. (N)	Long. (E)	
46	Upper Thomson	1.3416	103.8106	34
50	Clementi	1.3337	103.7768	69
55	Buangkok	1.3837	103.8860	29
60	Sentosa Island	1.2500	103.8279	37
61	Chai Chee	1.3277	103.9203	24
63	Boon Lay (West)	1.3275	103.7042	11
64	Bukit Panjang	1.3824	103.7603	32
66	Kranji Reservoir	1.4387	103.7363	9
69	Upper Peirce Reservoir	1.3700	103.8050	45
71	Kent Ridge	1.2923	103.7815	72
72	Tanjong Pagar	1.2740	103.8482	29
77	Queenstown	1.2937	103.8125	24
78	Tanjong Katong	1.3070	103.8907	6
79	Somerset (Road)	1.3004	103.8372	67
81	Punggol	1.4029	103.9092	25
82	Tuas West	1.3247	103.6351	45
84	Simei	1.3437	103.9444	19
86	Boon Lay (East)	1.3302	103.7205	42
88	Toa Payoh	1.3415	103.8519	29
89	Tuas	1.3199	103.6616	25
90	Bukit Timah	1.3191	103.8191	21
91	Yishun	1.4301	103.8308	43
92	Buona Vista	1.2841	103.7886	38
94	Pasir Ris (Central)	1.3679	103.9489	23
101	Jurong (North)	1.3505	103.7134	18
102	Semakau Island	1.1890	103.7680	6
104	Admiralty	1.4439	103.7854	27
105	Admiralty West	1.4582	103.7953	28
106	Pulau Ubin	1.4168	103.9673	27
107	East Coast Parkway	1.3134	103.9619	9
108	Marina Barrage	1.2799	103.8703	15
109	Ang Mo Kio	1.3764	103.8492	53
110	Serangoon North	1.3606	103.8697	57
111	Newton	1.3106	103.8365	115
112	Lim Chu Kang	1.4385	103.7013	6
113	Marine Parade	1.3065	103.9107	25
114	Choa Chu Kang (Central)	1.3819	103.7386	25
115	Tuas South	1.2938	103.6184	6
116	Pasir Panjang	1.2810	103.7540	26
117	Jurong Island	1.2542	103.6741	22
118	Dhoby Ghaut	1.2994	103.8461	21
119	Nicoll Highway	1.3011	103.8666	26
120	Botanic Garden	1.3087	103.8180	39
121	Choa Chu Kang (South)	1.3729	103.7224	38
122	Khatib	1.4173	103.8249	26
123	Whampoa	1.3214	103.8577	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 (West)				2												05/03/2009
24	Changi Climate Station	1			1	1	1	1	1	1	1	1	1	1	1	1	28/05/2009
29	Pasir Ris (West)				2												05/05/2010
31	Kampong Bahru				2												28/04/2010
33	Jurong Pier				2												03/02/2010
35	Ulu Pandan				2												27/02/2009
36	Serangoon				2												09/07/2009
40	Mandai				2												11/12/2009
43	Tai Seng		1		2	1	1	1									28/04/2011
44	Jurong (West)			1	2	1	1										17/03/2009
46	Upper Thomson				2												21/01/2010
50	Clementi			1	2	1	1										14/04/2010
55	Buangkok				2												06/11/2008
60	Sentosa Island		1		2	1	1	1	1								04/03/2010
61	Chai Chee				2												15/12/2009
63	Boon Lay (West)				2												24/03/2009
64	Bukit Panjang				2												07/12/2009
66	Kranji Reservoir				2												23/10/2008
69	Upper Peirce Reservoir				2												04/02/2010
71	Kent Ridge				2												24/03/2009
72	Tanjong Pagar				2												27/01/2010
77	Queenstown				2												23/11/2009
78	Tanjong Katong				2												24/09/2008
79	Somerset (Road)				1												24/03/2011
81	Punggol				2												04/06/2009
82	Tuas West				2												03/03/2009
84	Simei				2												15/06/2009
86	Boon Lay (East)	1			2	1	1	1									30/11/2009
88	Toa Payoh				2												16/03/2010
89	Tuas				2												02/10/2008
90	Bukit Timah				2												03/03/2009
91	Yishun				2												19/05/2009
92	Buona Vista				2												02/03/2009
94	Pasir Ris (Central)				2												18/03/2010
101	Jurong (North)				2												10/09/2008
102	Semakau Island	1			2	1	1	1	1								31/10/2008
104	Admiralty		1		2	1	1										16/10/2008
105	Admiralty West				2												11/09/2008
106	Pulau Ubin	1			2	1	1	1									05/01/2009
107	East Coast Parkway			1	2	1	1	1									10/06/2009
108	Marina Barrage		1		2	1	1	1									08/07/2010
109	Ang Mo Kio			1	2	1	1	1									02/09/2009
110	Serangoon North				2												03/06/2009

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
111	Newton		1		2	1	1										15/10/2009
112	Lim Chu Kang				2												29/01/2010
113	Marine Parade				2												13/05/2009
114	Choa Chu Kang (Central)				2												15/12/2009
115	Tuas South	1			2	1	1	1									30/03/2011
116	Pasir Panjang			1	2	1	1	1									24/02/2010
117	Jurong Island			1	2	1	1	1									05/08/2011
118	Dhoby Ghaut				2												03/09/2010
119	Nicoll Highway				2												17/09/2010
120	Botanic Garden				2												23/09/2010
121	Choa Chu Kang (South)		1		2	1	1	1	1								08/03/2011
122	Khatib	1			2	1	1	1	1	1							11/10/2010
123	Whampoa				2												09/09/2011

Table 5: Types and numbers of instruments at the AWSs

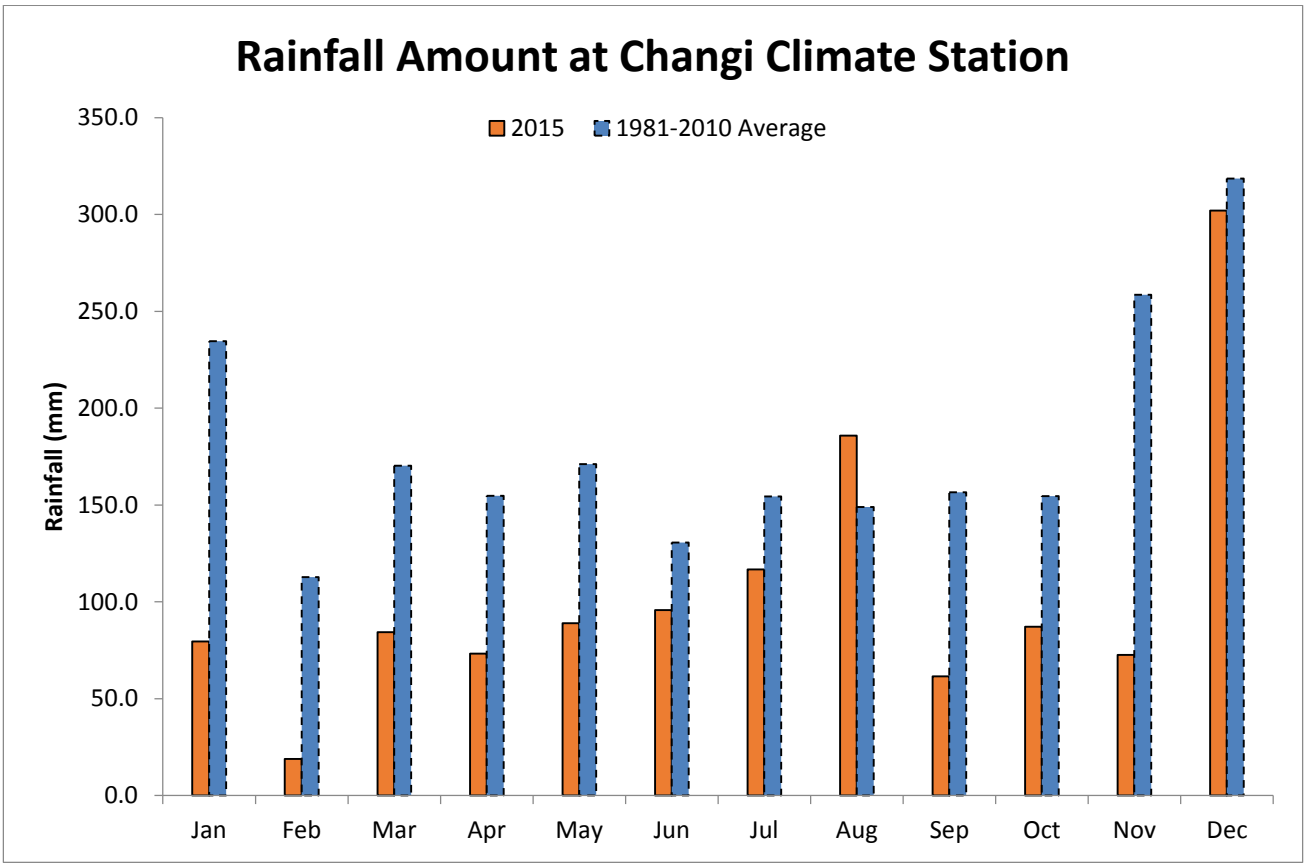
4. Monthly Records of Changi Climate Station

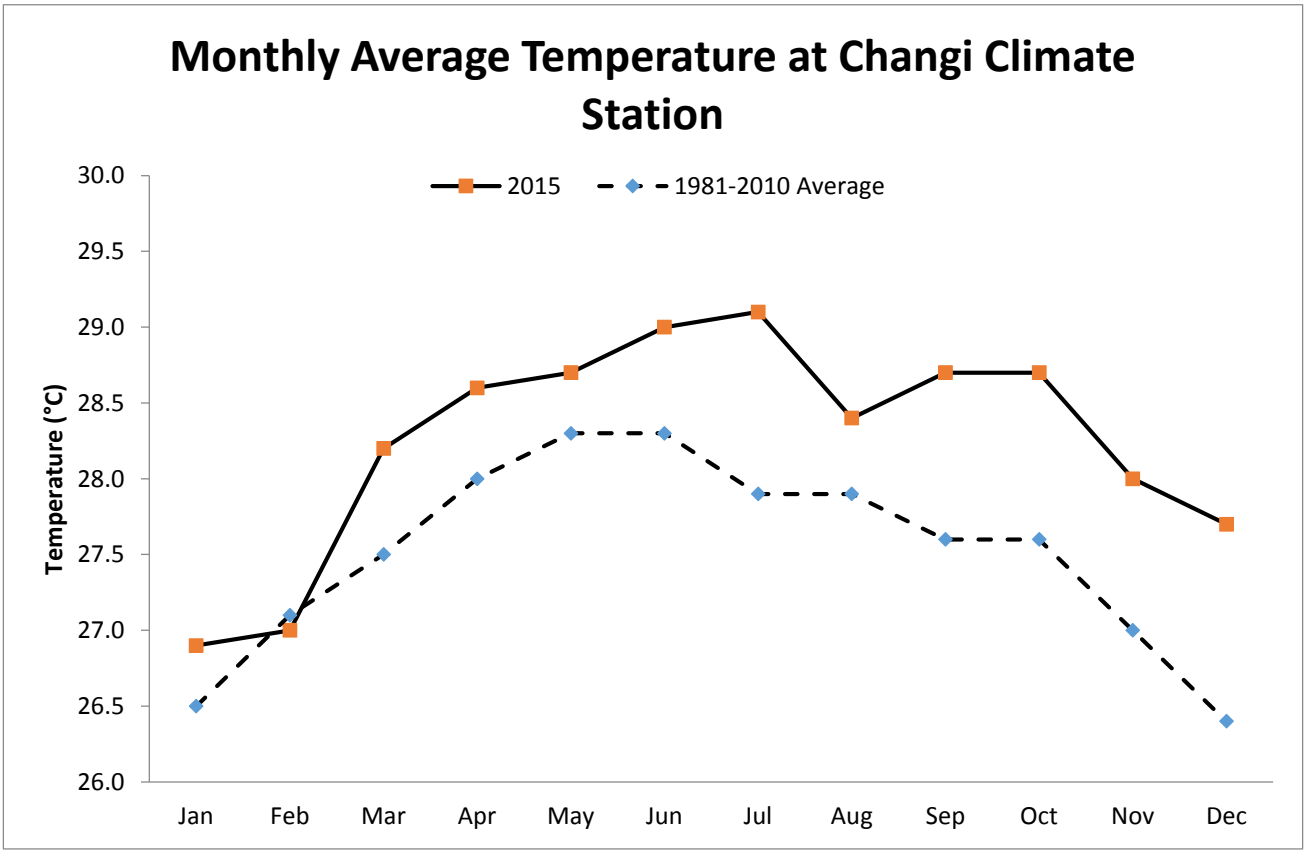
Climate Statistics of Changi Climate Station for 2015

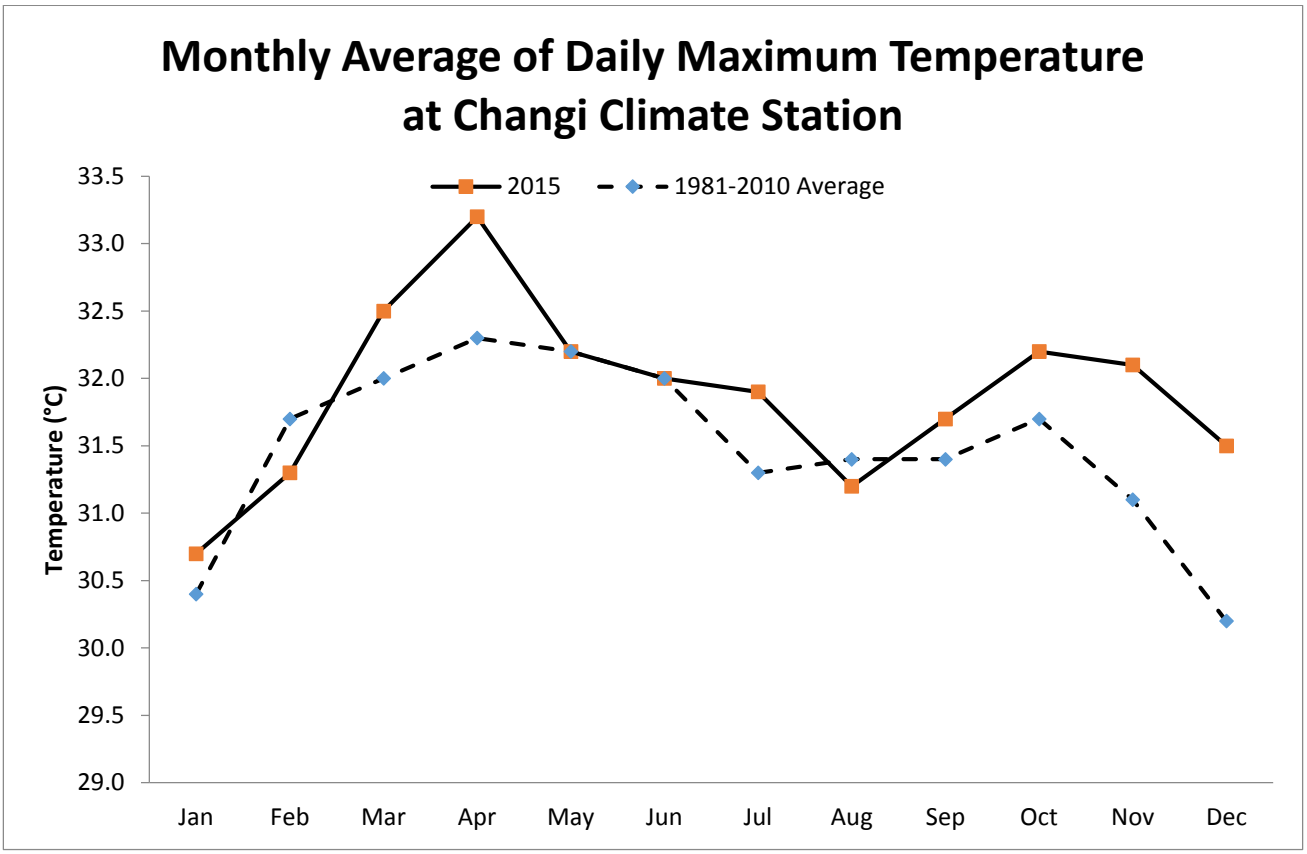
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Rainfall (mm)	Monthly Total	2015	79.6	18.8	84.4	73.2	89.0	95.8	116.8	185.8	61.6	87.2	72.6	302.0
		1981-2010 Average	234.6	112.8	170.3	154.8	171.2	130.7	154.4	148.9	156.5	154.6	258.5	318.6
	Raindays	2015	6	6	5	13	12	10	13	11	8	9	13	19
		1981-2010 Average	13	8	13	14	14	12	14	14	13	15	18	18
Temperature (°C)	Monthly Average of Daily Maximum[1]	2015	30.7	31.3	32.5	33.2	32.2	32.0	31.9	31.2	31.7	32.2	32.1	31.5
		1981-2010 Average	30.4	31.7	32.0	32.3	32.2	32.0	31.3	31.4	31.4	31.7	31.1	30.2
	Monthly Average of Daily Minimum[2]	2015	24.6	24.5	25.5	25.9	26.4	26.6	26.7	26.0	26.5	26.1	25.5	25.0
		1981-2010 Average	23.9	24.3	24.6	25.0	25.4	25.4	25.0	25.0	24.8	24.7	24.3	24.0
	Monthly 24-hr Average	2015	26.9	27.0	28.2	28.6	28.7	29.0	29.1	28.4	28.7	28.7	28.0	27.7
		1981-2010 Average	26.5	27.1	27.5	28.0	28.3	28.3	27.9	27.9	27.6	27.6	27.0	26.4
Relative Humidity (%)	Monthly Average of Daily Maximum	2015	89	90	89	92	92	89	88	89	88	90	92	93
		1981-2010 Average	95	95	96	97	96	95	95	94	96	96	97	96
	Monthly Average of Daily Minimum	2015	61	57	56	56	61	59	59	60	58	54	60	63
		1981-2010 Average	67	62	63	63	65	64	65	64	64	63	66	69
	Monthly 24-hr Average	2015	78	75	76	77	79	76	75	76	75	76	79	81
		1981-2010 Average	84	82	83	84	84	82	82	82	83	83	86	87
Wind (m/s)	Monthly 24-hr Average	2015	3.1	3.5	3.0	2.3	2.4	2.7	3.3	3.3	2.9	2.6	1.8	2.2
		1981-2010 Average	2.9	3.0	2.3	1.6	1.7	2.0	2.4	2.5	2.0	1.6	1.5	2.2

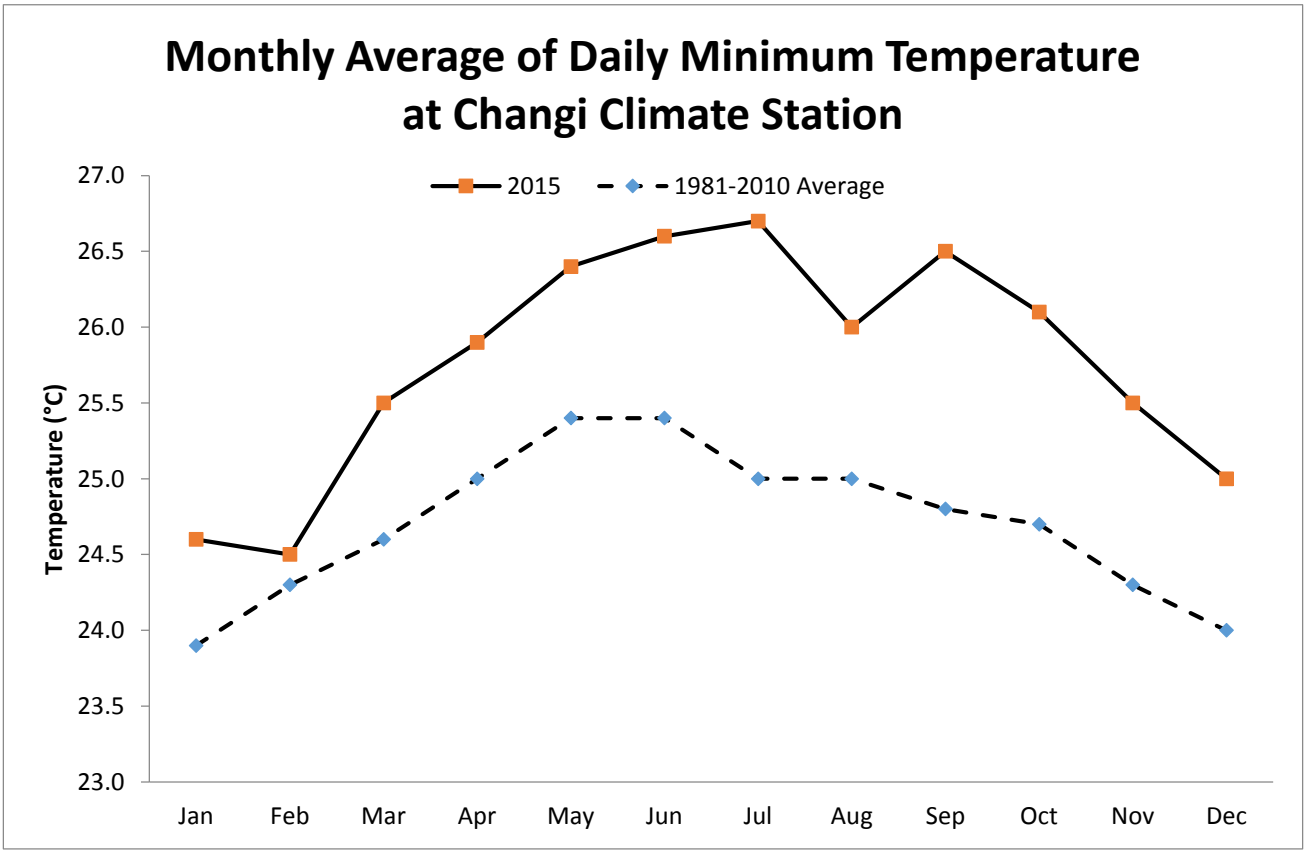
[1] Average of all daily maximum values over a month

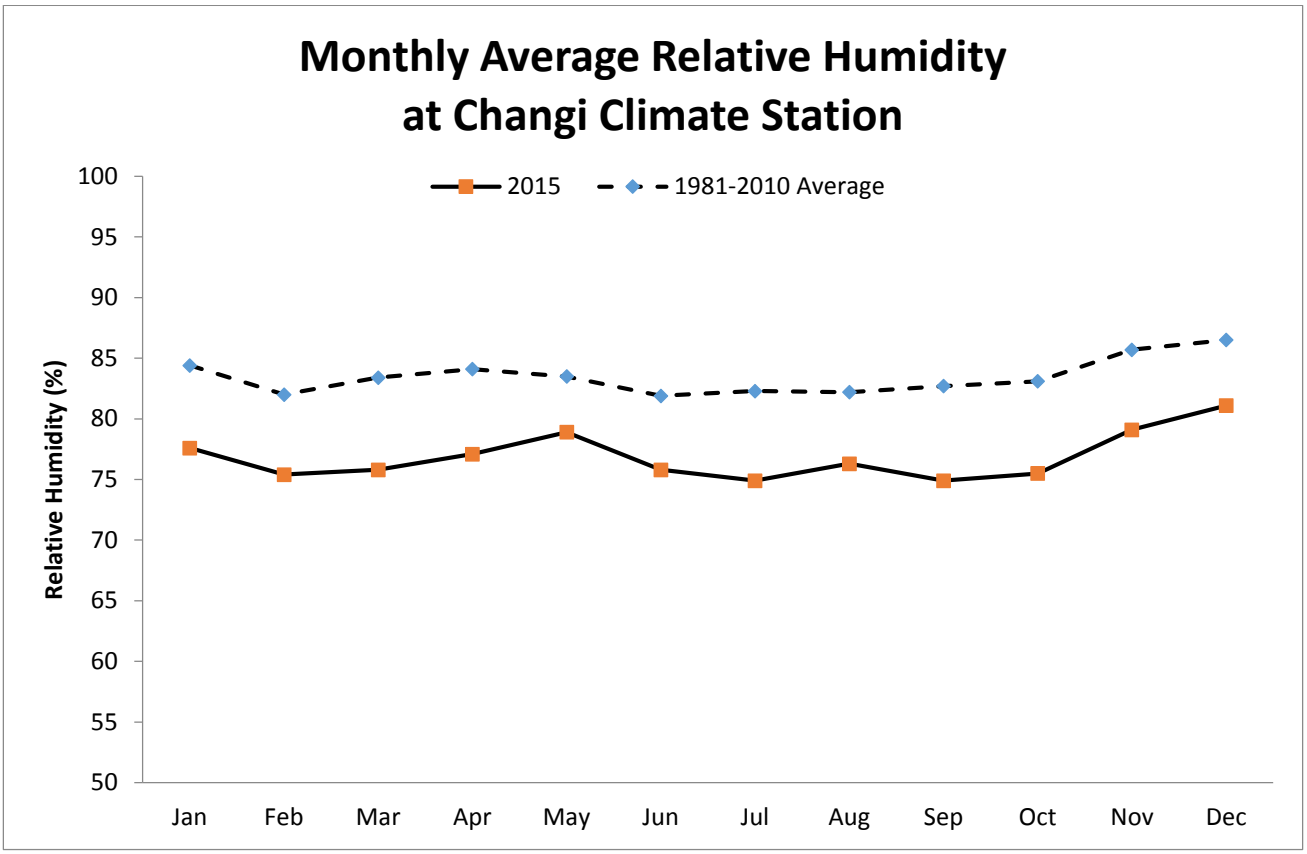
[2] Average of all daily minimum values over a month

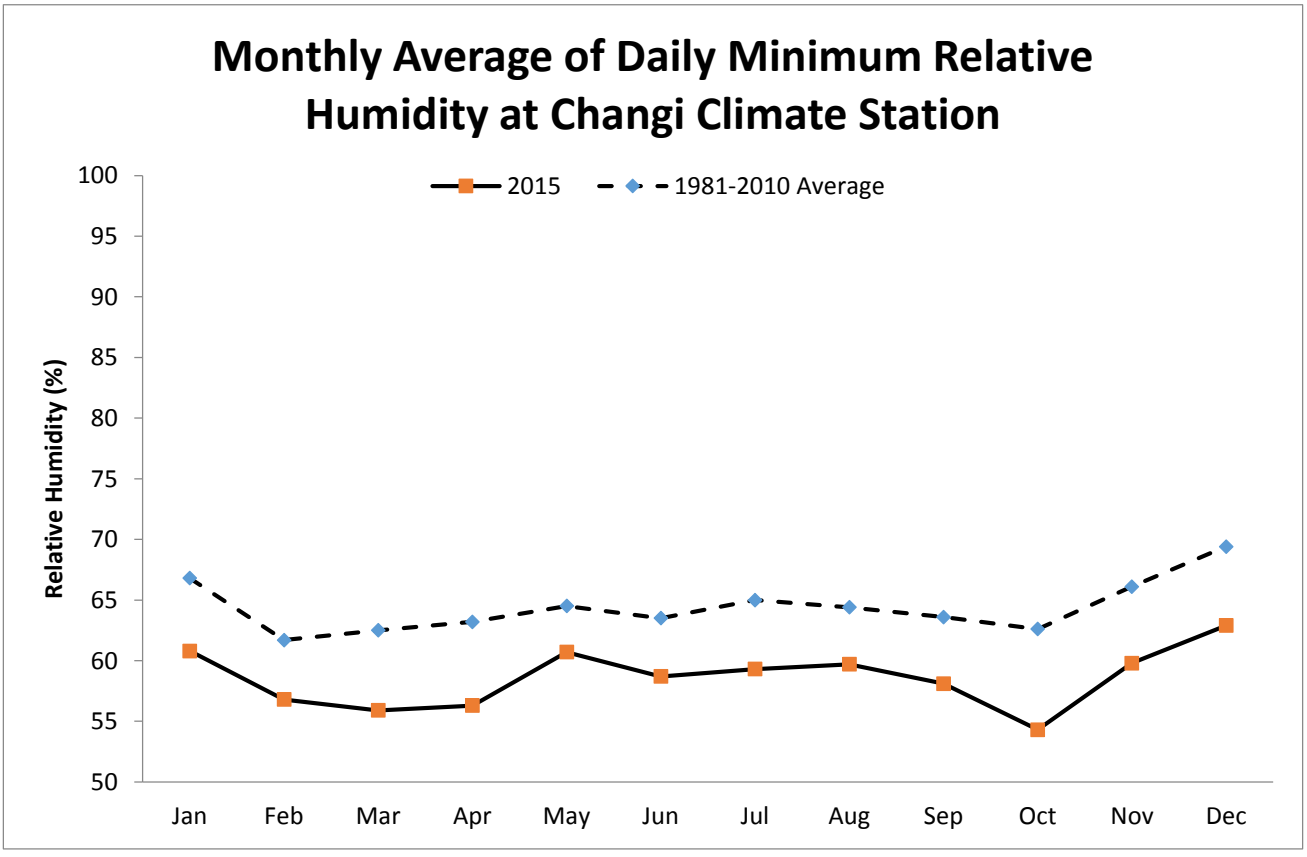

Rainfall Amount at Changi Climate Station
2015
1981-2010 Average
Rainfall (mm)
350.0
300.0
250.0
200.0
150.0
100.0
50.0
0.0
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec

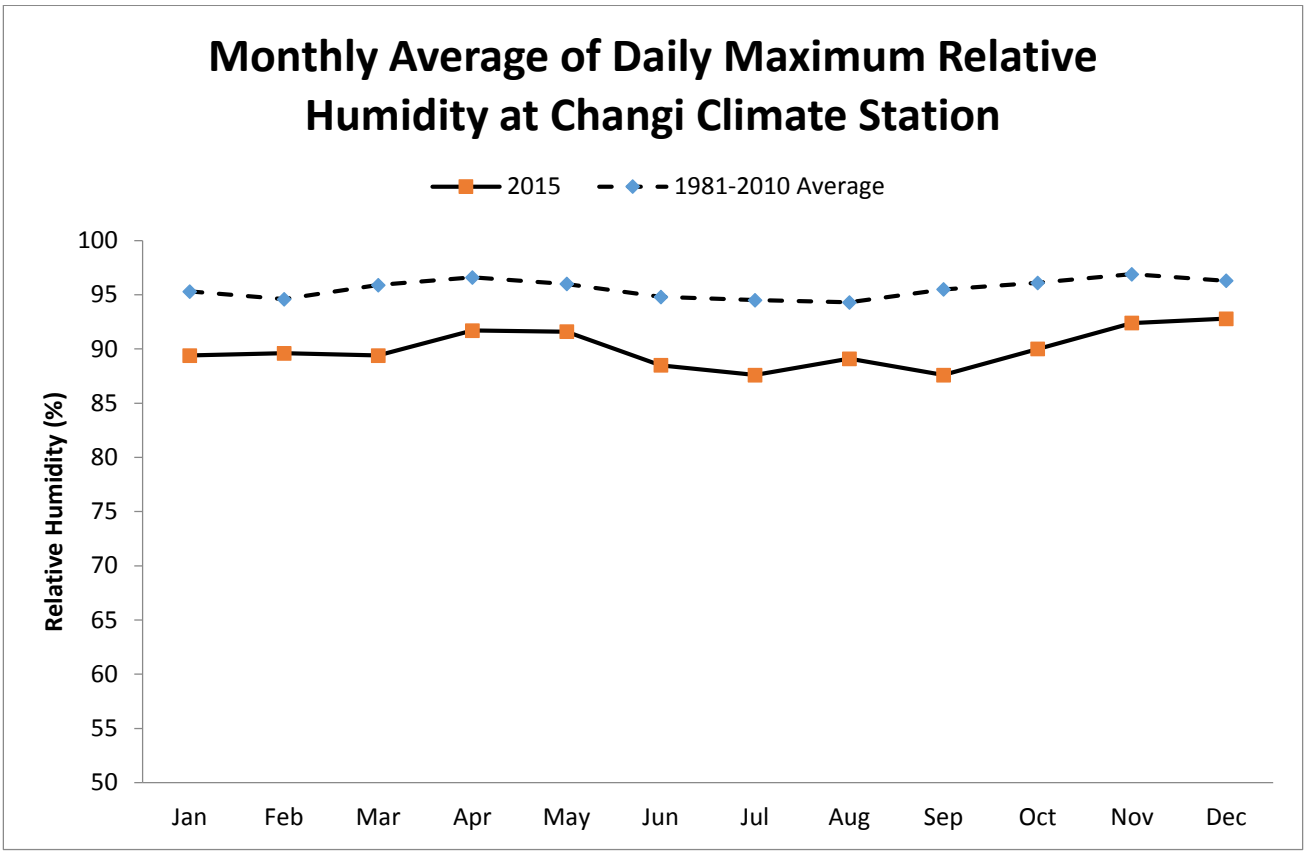

Monthly Average Temperature at Changi Climate Station
2015
1981-2010 Average
Temperature (°C)
30.0
29.5
29.0
28.5
28.0
27.5
27.0
26.5
26.0
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec

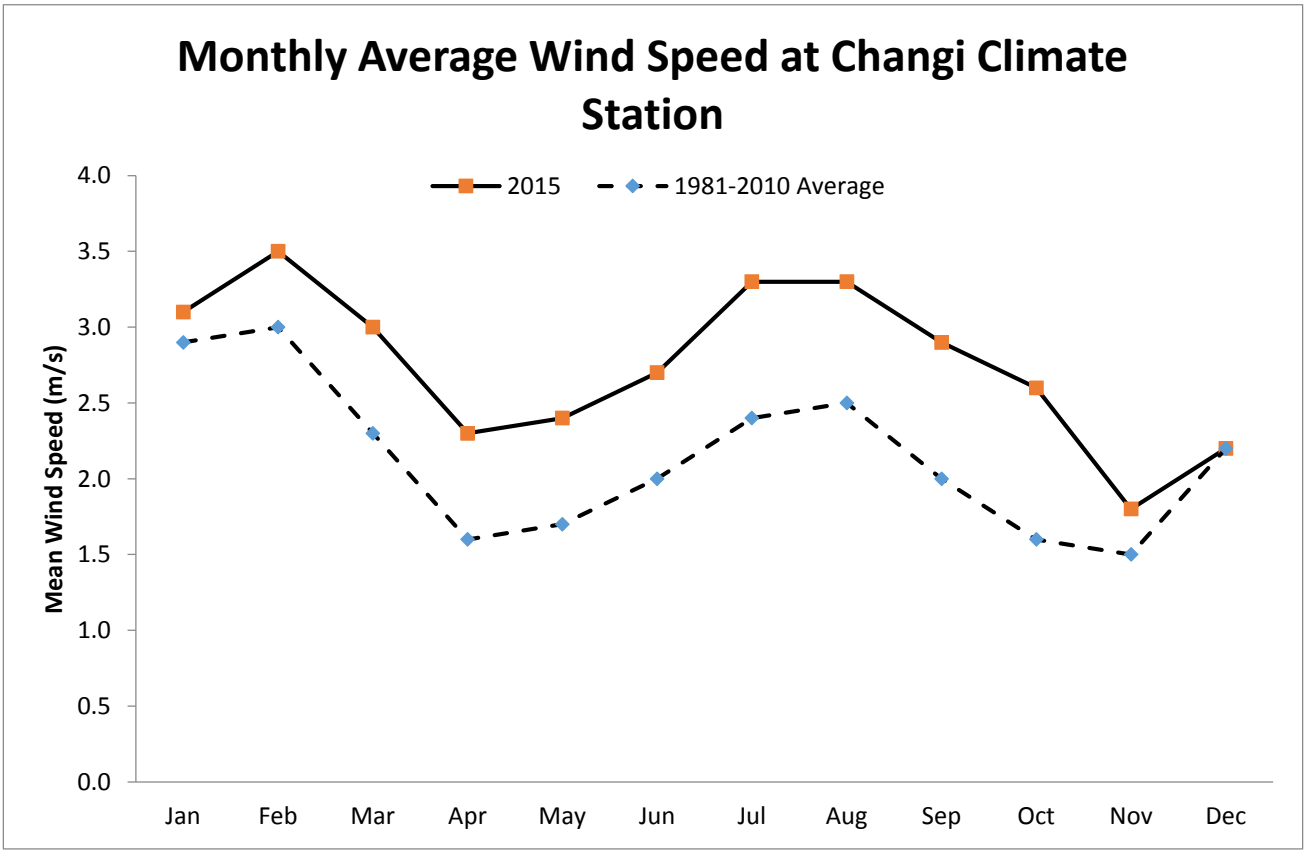

Monthly Average of Daily Maximum Temperature at Changi Climate Station
2015
1981-2010 Average
Temperature (°C)
33.5
33.0
32.5
32.0
31.5
31.0
30.5
30.0
29.5
29.0
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec


Monthly Average of Daily Minimum Temperature at Changi Climate Station
2015
1981-2010 Average
Temperature (°C)
27.0
26.5
26.0
25.5
25.0
24.5
24.0
23.5
23.0
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec


Monthly Average Relative Humidity at Changi Climate Station
2015
1981-2010 Average
Relative Humidity (%)
100
95
90
85
80
75
70
65
60
55
50
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec


Monthly Average of Daily Minimum Relative Humidity at Changi Climate Station
2015
1981-2010 Average
Relative Humidity (%)
100
95
90
85
80
75
70
65
60
55
50
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec


Monthly Average of Daily Maximum Relative Humidity at Changi Climate Station
2015
1981-2010 Average
Relative Humidity (%)
100
95
90
85
80
75
70
65
60
55
50
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec


Monthly Average Wind Speed at Changi Climate Station
2015
1981-2010 Average
Mean Wind Speed (m/s)
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec

5. Daily Records[3] 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 2015

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.6	0.0	0.0	13.8	0.0	0.0	6.4	1.6	0.0	0.0	0.2	28.8
2	0.0	3.4	0.0	11.4	16.4	1.8	0.0	0.0	0.0	28.6	0.2	0.2
3	0.0	0.2	0.0	0.0	22.2	0.0	0.4	26.2	0.0	0.0	0.0	0.0
4	0.0	0.2	14.0	0.0	5.0	2.2	22.2	6.2	0.4	0.0	0.0	0.0
5	0.0	0.0	0.0	9.8	2.6	0.0	0.0	0.0	0.0	0.2	0.0	6.0
6	21.8	10.8	0.0	1.6	3.4	12.8	0.0	1.6	0.0	19.8	0.0	4.0
7	22.4	0.2	0.0	0.0	0.2	28.4	2.0	20.2	0.0	0.6	1.4	0.0
8	0.8	0.0	0.0	0.0	0.0	0.0	20.0	28.2	0.0	0.0	0.0	21.6
9	0.4	0.0	0.0	0.0	0.0	0.0	0.0	14.2	17.4	0.0	1.4	2.0
10	33.6	0.0	0.0	0.4	0.0	0.0	11.4	1.0	0.0	0.0	0.0	40.4
11	0.0	0.0	46.0	0.0	0.0	2.8	0.6	0.0	0.0	0.0	0.0	11.0
12	0.0	0.0	0.0	0.0	3.0	17.4	0.0	63.2	0.0	0.0	0.0	37.8
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.6
14	0.0	0.0	0.0	0.0	16.6	13.4	45.8	0.0	0.0	7.8	0.0	0.4
15	0.0	0.0	0.0	0.0	9.8	3.8	0.0	0.0	18.4	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	16.4	0.0	1.6	0.2
17	0.0	0.0	0.0	0.6	0.0	0.4	0.0	0.0	0.0	0.0	9.8	0.0
18	0.0	0.0	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	8.2
19	0.0	4.0	0.0	8.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
21	0.0	0.0	0.0	3.2	0.0	0.0	0.4	0.0	0.2	0.0	0.0	0.0
22	0.0	0.0	6.4	0.0	0.0	0.0	0.0	0.0	4.6	0.0	0.0	4.8
23	0.0	0.0	0.0	0.0	5.4	0.0	0.0	0.0	0.0	0.0	0.0	25.6
24	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.6	24.0	40.2
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.2	0.0	0.0	3.2	0.0
26	0.0	0.0	0.0	18.8	0.0	0.0	3.6	0.0	0.0	0.0	0.8	0.0
27	0.0	0.0	0.0	0.4	2.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0
28	0.0	0.0	0.0	0.2	0.0	12.8	0.0	0.0	2.8	24.0	0.0	0.0
29	0.0		9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	39.0
30	0.0		0.0	3.2	0.0	0.0	0.0	1.2	1.4	5.2	25.8	2.2
31	0.0		8.8		0.0		2.2	0.0		0.4		17.0
Monthly Average	2.6	0.7	2.7	2.4	2.9	3.2	3.8	6.0	2.1	2.8	2.4	9.7

No Data

— Defective Data

Daily Average Temperature (°C), Changi, Singapore 2015

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	25.8	26.5	28.4	27.1	27.7	29.4	28.6	26.7	29.3	28.7	27.6	26.9
2	26.8	25.9	28.3	27.0	27.9	29.5	29.2	28.6	29.3	27.5	27.8	27.6
3	27.1	25.8	28.4	27.6	26.7	29.2	29.4	26.2	29.3	28.5	28.6	28.7
4	27.7	25.8	27.6	28.9	27.0	29.5	27.4	27.1	29.1	29.0	28.2	28.4
5	27.8	26.9	27.8	27.7	28.1	29.2	29.3	28.6	29.2	28.4	28.4	28.1
6	26.6	26.2	27.9	28.4	28.5	27.8	29.5	27.4	29.2	27.4	28.4	27.8
7	26.2	26.7	28.3	29.2	29.3	27.9	29.3	27.2	28.9	28.1	27.9	28.5
8	25.8	26.7	28.3	29.3	28.8	28.4	28.5	28.1	29.2	28.2	27.6	28.1
9	25.0	26.9	28.6	29.1	29.3	28.3	29.1	27.6	27.0	29.0	28.0	27.8
10	25.9	26.7	28.4	29.3	29.6	29.2	28.7	29.1	27.6	28.9	28.1	27.4
11	26.7	26.6	25.5	28.2	29.9	28.3	29.4	28.8	28.9	29.3	27.5	27.2
12	27.3	26.3	27.3	28.8	29.2	26.9	29.3	26.1	28.6	29.1	28.2	26.8
13	27.4	26.6	27.7	29.3	29.2	28.1	29.4	28.0	28.9	29.0	28.3	25.8
14	27.6	26.8	28.0	29.2	29.1	26.8	28.1	29.0	28.7	28.6	29.0	27.6
15	27.2	27.1	27.9	29.1	27.2	27.7	29.2	29.0	26.6	29.4	27.9	27.5
16	26.9	27.4	28.4	29.6	28.4	27.7	29.3	28.7	27.7	29.0	26.5	28.0
17	26.8	27.4	28.3	29.6	29.0	28.4	29.5	28.7	29.0	29.4	27.0	27.8
18	26.7	27.8	28.3	29.6	28.6	29.5	29.8	29.0	28.9	29.3	28.6	27.8
19	26.9	26.5	28.3	28.3	29.4	29.4	29.6	29.0	29.0	29.5	28.9	28.4
20	27.0	27.5	28.5	28.8	29.0	29.8	29.4	29.1	29.2	29.2	28.1	28.5
21	26.9	27.3	28.7	27.9	29.4	30.0	29.5	28.6	28.9	29.2	27.6	28.7
22	27.2	27.3	27.6	28.8	29.0	30.2	29.6	29.0	28.7	29.6	28.3	28.4
23	26.8	28.0	28.6	29.5	27.1	30.1	29.3	29.0	29.2	29.6	29.1	27.4
24	27.0	27.4	28.6	28.7	28.7	30.0	29.3	28.8	28.8	29.0	26.8	26.4
25	27.1	27.6	29.0	28.8	28.8	29.9	29.4	28.3	28.9	28.2	27.2	27.9
26	27.0	27.4	28.9	27.9	28.6	29.7	28.1	29.0	29.0	29.0	27.1	28.5
27	27.3	27.9	28.9	27.9	28.3	29.9	29.0	28.7	28.9	29.0	27.6	28.3
28	27.4	28.3	28.7	28.3	29.0	29.4	28.7	29.0	27.8	26.6	28.5	28.4
29	26.5		27.0	28.7	30.1	29.7	29.0	29.7	28.1	28.5	28.5	26.9
30	26.9		28.6	27.4	30.0	29.7	29.2	28.9	28.7	27.5	27.6	27.8
31	27.3		27.9		29.7		27.6	29.2		27.2		26.0
Monthly Average	26.9	27.0	28.2	28.6	28.7	29.0	29.1	28.4	28.7	28.7	28.0	27.7

No Data

— Defective Data

Daily Maximum Temperature (°C), Changi, Singapore 2015

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	27.5	31.2	33.3	33.2	32.6	33.9	30.8	29.3	32.3	32.3	32.2	31.8
2	30.3	29.1	33.5	33.4	32.4	33.8	31.9	32.1	33.2	31.6	32.9	31.7
3	30.7	29.6	32.9	30.9	29.5	32.4	32.0	28.7	32.5	30.9	32.9	32.9
4	32.1	28.5	34.4	33.2	31.2	32.9	29.2	29.7	32.0	31.6	31.7	31.8
5	32.4	30.8	32.9	31.7	32.6	34.3	31.9	30.8	32.1	30.9	32.3	32.8
6	31.3	30.0	32.7	33.0	32.1	32.2	31.9	30.1	32.4	32.0	32.0	32.4
7	31.1	30.7	33.0	33.2	33.2	31.6	31.7	30.1	32.1	31.6	32.9	32.4
8	30.0	30.5	33.3	33.6	31.8	30.7	31.8	31.0	32.2	32.6	30.7	31.4
9	27.0	30.7	32.4	32.8	32.1	31.8	32.4	30.5	31.7	33.0	31.8	31.1
10	30.7	30.4	33.7	33.7	32.3	32.5	30.9	32.0	30.4	31.7	32.6	32.7
11	29.9	31.1	28.2	31.6	32.8	31.9	31.9	31.0	32.7	32.7	32.2	30.8
12	30.9	30.8	31.1	33.8	32.5	29.7	32.0	28.0	31.0	33.2	32.4	31.8
13	31.5	30.8	31.7	33.5	32.9	30.9	31.5	31.5	31.5	33.0	32.7	28.7
14	30.8	30.9	32.6	33.6	34.2	28.5	31.2	32.1	31.3	32.0	33.4	31.9
15	31.1	32.0	31.5	33.1	30.3	30.6	32.5	32.3	28.9	33.4	30.7	29.6
16	31.0	32.0	32.8	33.5	31.3	29.4	32.2	31.9	30.2	32.0	28.8	30.6
17	30.9	32.0	32.3	34.0	32.4	30.7	32.0	30.9	31.7	33.0	30.1	30.2
18	30.6	32.4	32.9	34.4	32.0	32.0	32.6	32.7	30.9	31.6	32.9	31.3
19	30.8	30.9	32.2	33.7	33.0	31.8	32.5	32.2	32.8	32.7	32.3	32.1
20	30.7	32.2	32.7	33.1	32.3	32.4	32.5	32.0	32.6	32.5	32.5	33.1
21	30.7	32.1	33.4	33.7	33.0	32.5	32.4	32.3	31.7	32.3	31.7	32.9
22	30.9	31.6	32.7	33.5	31.5	33.2	32.5	31.1	31.1	33.5	32.2	32.6
23	30.4	33.6	32.9	33.7	28.6	32.8	31.6	31.8	32.0	32.7	33.6	31.4
24	30.9	31.3	32.5	34.3	31.8	33.2	32.7	30.7	32.5	31.8	30.6	29.6
25	30.6	32.5	33.0	33.3	31.9	32.0	32.6	31.0	31.7	31.1	32.4	31.7
26	30.7	31.8	32.9	31.7	32.2	32.3	30.9	31.4	32.0	33.6	32.0	32.0
27	31.3	32.7	33.1	32.9	31.9	33.0	31.4	31.7	31.8	33.0	31.9	32.1
28	31.8	33.1	32.7	33.3	31.8	32.3	31.8	32.1	31.8	30.0	32.6	32.5
29	29.4		28.7	32.6	33.3	32.8	31.9	33.1	31.1	32.5	32.3	29.2
30	31.2		33.0	33.2	34.2	32.7	32.7	31.8	31.8	32.7	33.0	31.6
31	31.8		32.0		33.5		32.2	32.3		30.6		30.3
Monthly Average	30.7	31.3	32.5	33.2	32.2	32.0	31.9	31.2	31.7	32.2	32.1	31.5

No Data

— Defective Data

Daily Minimum Temperature (°C), Changi, Singapore 2015

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	24.8	23.7	25.4	24.5	25.4	26.3	24.0	24.1	27.0	27.2	25.0	23.2
2	24.5	23.8	25.1	24.7	24.0	25.6	26.9	25.9	27.1	23.5	25.8	25.0
3	24.6	24.1	25.8	25.8	24.0	26.1	27.8	22.6	27.6	25.8	25.9	25.8
4	24.8	23.6	23.4	25.8	24.4	27.1	22.1	24.2	27.9	26.7	26.1	26.2
5	25.0	25.2	24.7	25.1	24.9	26.5	27.1	26.7	27.5	27.1	25.9	25.4
6	24.2	23.6	24.0	26.0	25.6	24.9	28.0	25.5	27.1	23.4	26.4	25.4
7	23.3	24.9	25.0	26.8	27.7	25.0	27.4	24.6	26.6	24.9	25.2	25.6
8	24.4	24.4	25.8	26.4	26.6	26.4	23.6	23.6	27.3	25.8	25.5	25.1
9	23.9	25.0	26.1	26.7	26.9	26.2	26.3	22.7	23.6	25.9	25.5	24.9
10	23.7	24.5	25.4	26.9	28.1	26.5	24.5	27.2	24.7	26.4	26.0	22.5
11	24.7	23.6	23.7	26.4	28.0	25.8	27.6	27.4	26.8	27.0	25.7	25.5
12	25.4	23.3	25.0	25.9	27.7	24.7	27.4	23.7	26.5	26.6	25.7	24.4
13	24.8	24.0	25.1	26.4	26.8	25.7	27.9	25.6	27.0	26.9	26.3	24.5
14	25.5	23.7	24.8	26.4	24.9	24.2	24.2	26.8	27.5	23.9	25.9	24.1
15	24.8	23.9	25.7	26.1	25.4	24.8	27.5	27.3	23.1	26.7	26.6	26.0
16	24.2	24.7	25.9	27.2	26.4	25.2	27.9	27.0	24.9	26.8	25.3	26.4
17	24.0	24.7	26.0	26.8	26.5	26.8	28.2	26.8	27.3	27.0	23.7	26.3
18	23.9	24.9	26.0	26.6	26.3	27.5	28.3	27.0	27.3	27.5	25.7	23.9
19	24.7	23.1	26.3	24.0	27.5	27.6	27.7	26.2	26.9	27.2	26.5	25.4
20	25.0	25.4	25.9	26.5	26.9	27.6	27.5	26.8	26.4	27.2	25.7	25.9
21	25.2	24.6	26.6	24.8	26.9	28.2	26.9	27.6	27.0	26.8	25.7	26.4
22	25.4	24.5	23.6	25.7	28.0	28.2	27.6	27.3	27.0	27.3	25.7	26.0
23	24.4	25.2	26.0	26.4	25.3	28.4	27.8	27.4	27.3	27.6	26.2	23.5
24	24.8	24.8	26.3	26.7	25.9	28.3	27.3	27.6	26.0	26.4	24.2	22.8
25	25.2	24.7	26.9	26.1	26.9	28.2	26.4	24.4	26.9	26.3	25.1	24.8
26	25.0	25.0	26.6	24.4	25.9	28.0	24.3	27.4	26.4	26.5	24.7	25.8
27	24.7	25.1	26.5	26.2	25.4	28.1	27.2	25.9	27.1	26.4	24.9	25.3
28	24.0	25.4	26.7	25.3	26.5	25.2	27.2	26.5	24.5	21.9	25.9	26.0
29	25.1		24.8	26.0	28.3	27.1	27.5	27.9	25.0	25.0	24.7	23.8
30	24.6		25.5	25.0	28.2	27.3	27.6	25.9	26.8	25.3	24.7	25.1
31	25.2		26.1		27.4		25.2	27.4		25.6		24.8
Monthly Average	24.6	24.5	25.5	25.9	26.4	26.6	26.7	26.0	26.5	26.1	25.5	25.0

▪ No Data

— Defective Data

Daily Average Relative Humidity (%), Changi, Singapore
2015

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	84.4	70.0	74.8	85.6	81.0	73.8	76.2	81.5	69.3	77.0	77.8	86.2
2	76.5	80.1	73.0	85.3	81.3	70.8	76.1	74.8	67.8	79.9	78.5	84.1
3	75.0	79.6	75.7	81.8	86.3	73.6	73.7	83.0	72.2	79.3	75.3	77.8
4	72.1	83.5	78.5	79.4	85.2	74.3	77.8	79.6	75.2	73.8	78.9	79.6
5	73.3	78.0	74.5	84.3	82.8	74.2	70.8	76.0	76.0	81.4	77.4	83.2
6	86.3	81.5	72.5	80.8	81.0	85.7	71.6	82.7	72.5	84.9	78.0	85.0
7	87.4	74.9	70.8	75.9	78.5	83.8	73.4	86.8	71.2	80.2	76.7	77.0
8	87.4	75.1	74.6	75.7	80.7	79.6	80.8	81.0	71.2	77.0	80.5	81.6
9	89.1	73.0	74.3	75.5	73.1	78.2	78.5	81.6	80.9	72.2	78.8	82.5
10	86.2	71.0	72.9	73.8	75.2	73.4	78.6	75.0	77.8	74.8	77.9	85.2
11	82.7	70.1	90.2	78.7	74.0	79.5	75.6	78.2	68.2	70.3	79.0	87.8
12	79.6	72.6	77.0	76.0	77.6	86.3	75.9	—	73.2	71.1	77.2	87.9
13	76.1	72.6	70.4	73.4	78.5	78.8	75.6	82.6	75.4	74.6	79.1	92.0
14	76.8	73.4	73.2	71.6	77.5	85.8	80.3	77.5	76.0	77.5	75.3	79.6
15	76.5	75.2	75.0	72.5	87.1	83.0	76.2	74.9	85.8	72.8	80.7	80.4
16	73.9	75.0	75.0	69.1	81.3	78.1	78.2	75.6	82.5	72.2	85.4	75.2
17	71.5	75.4	75.9	71.0	78.7	77.0	76.5	73.1	70.0	71.2	82.9	77.4
18	72.9	75.1	75.6	72.4	81.2	72.8	74.8	69.7	77.3	74.4	76.0	76.3
19	72.9	79.6	77.1	77.5	77.6	73.8	73.6	70.7	78.2	71.9	75.8	71.8
20	72.9	74.6	75.7	75.0	80.0	72.5	74.5	73.5	76.8	69.4	77.8	70.9
21	77.5	76.0	75.4	79.7	77.8	73.3	72.7	76.0	75.9	69.5	81.4	71.3
22	72.5	75.6	78.1	74.4	77.9	71.9	70.4	76.0	75.3	68.8	78.4	78.0
23	74.0	73.6	74.0	72.3	84.6	72.6	71.3	72.0	71.1	71.9	74.8	83.6
24	74.6	76.5	71.4	73.8	77.9	71.1	71.8	72.3	75.8	77.4	85.9	88.9
25	73.7	75.9	69.7	73.7	78.9	70.4	73.0	78.0	70.7	81.9	83.2	81.1
26	74.4	75.9	73.0	81.4	78.4	69.4	75.7	73.1	68.9	71.9	81.2	75.0
27	72.5	73.0	74.0	79.7	81.8	69.5	69.7	75.6	75.9	73.9	79.2	77.8
28	73.5	73.6	77.5	78.7	78.2	74.5	72.5	75.2	79.5	81.8	78.0	80.2
29	81.4		86.5	79.2	70.3	72.4	71.5	71.0	80.5	74.4	78.6	86.1
30	81.5		78.0	83.8	69.8	74.4	72.3	72.8	77.2	80.5	82.9	78.7
31	75.0		84.0		72.0		81.2	69.0		81.1		91.0
Monthly Average	77.6	75.4	75.8	77.1	78.9	75.8	74.9	76.3	74.9	75.5	79.1	81.1

No Data

— Defective Data

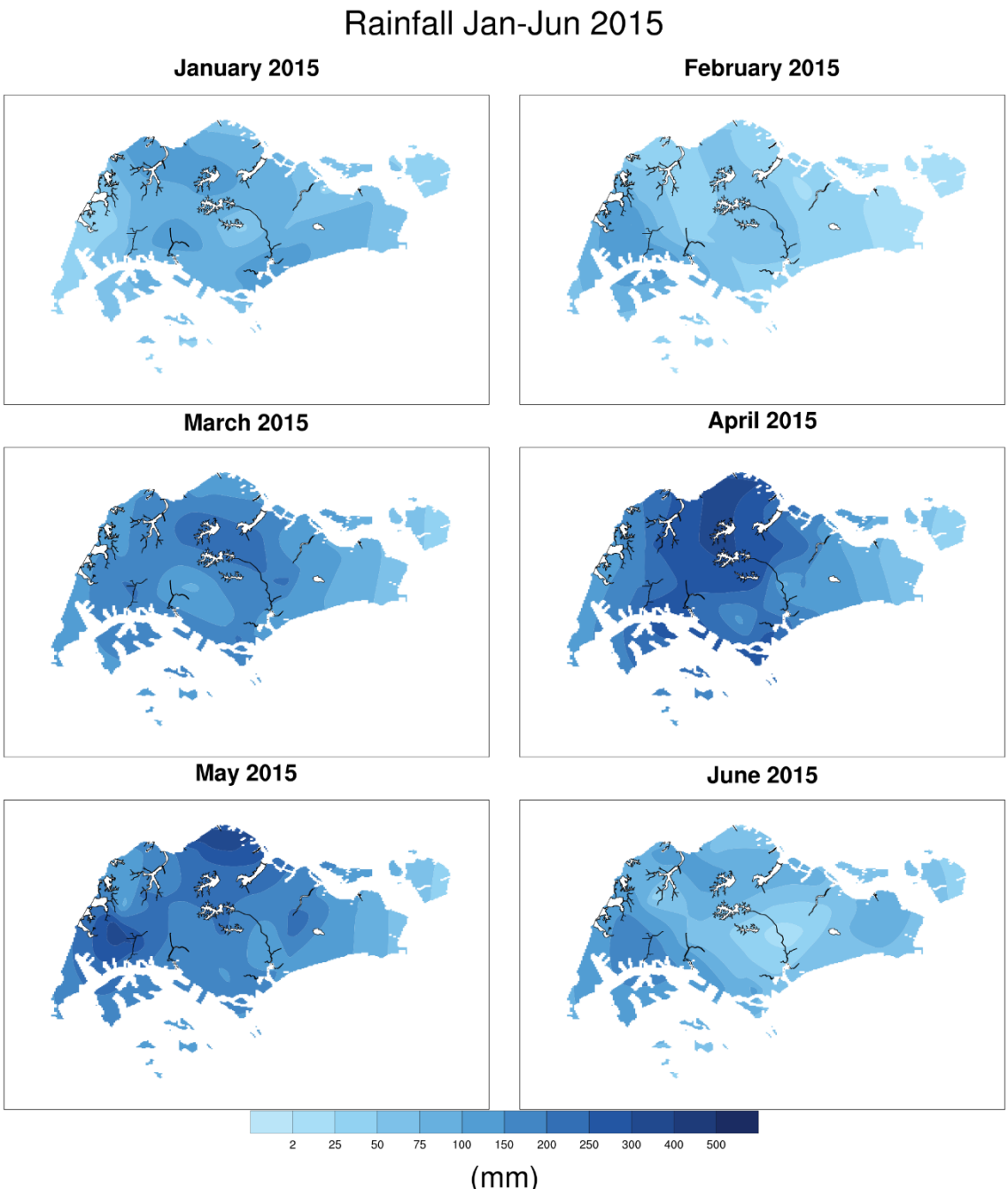
Daily Total Radiation (MJ/m²), Changi, Singapore 2015

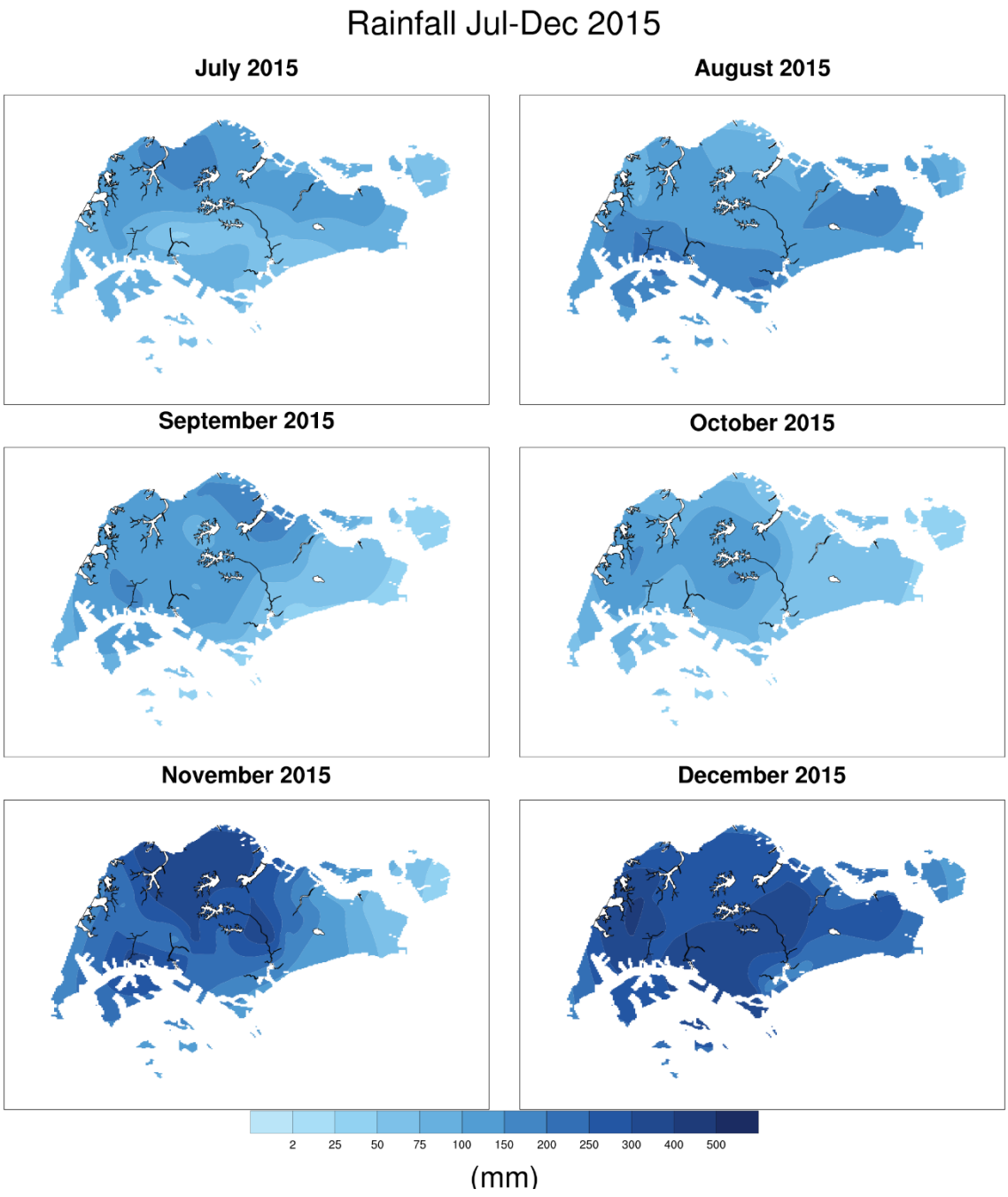
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	6.1	23.4	25.6	15.9	12.3	18.2	10.2	16.6	19.0	14.9	16.3	17.5
2	17.6	9.7	23.8	14.8	12.0	22.6	19.4	18.4	20.0	15.7	17.2	13.6
3	16.5	10.7	20.4	11.2	6.9	22.2	18.6	4.5	20.8	14.0	20.7	22.0
4	19.8	9.5	20.4	22.8	9.8	21.6	9.6	15.9	18.7	17.8	15.3	15.7
5	18.8	19.2	24.0	10.8	19.7	20.8	19.9	16.0	16.1	8.4	13.4	17.4
6	13.2	14.9	20.3	17.7	16.8	8.4	16.2	6.2	22.1	14.3	10.7	16.1
7	11.2	20.3	24.4	24.0	16.4	8.1	12.8	9.0	18.6	19.2	14.5	21.5
8	11.4	22.1	21.3	24.9	12.8	15.2	16.1	15.2	17.2	19.4	7.7	13.4
9	7.4	23.5	20.6	19.8	23.6	15.9	17.2	15.6	8.0	21.8	16.3	18.2
10	16.4	—	27.2	23.9	18.7	22.2	11.5	22.5	13.7	17.2	17.6	16.0
11	15.0	—	5.9	16.4	22.3	13.0	15.0	12.0	20.2	22.7	12.6	10.1
12	19.1	—	16.3	23.0	15.9	6.2	15.8	4.7	14.1	20.7	17.6	13.2
13	24.5	—	26.5	25.3	21.2	15.7	16.3	17.8	14.2	19.2	15.4	7.5
14	24.5	23.5	23.8	24.1	21.0	5.7	17.6	22.7	13.2	15.9	20.8	16.6
15	23.4	24.4	18.6	21.4	9.1	10.3	19.4	22.1	5.3	23.0	11.6	7.2
16	23.3	25.7	20.8	24.2	10.7	6.5	18.1	19.1	7.3	14.8	9.6	10.2
17	24.7	24.4	19.4	23.6	19.1	10.2	20.1	19.5	14.8	18.3	11.1	9.9
18	22.8	24.0	21.1	18.3	15.8	18.1	18.9	20.4	14.3	12.4	18.9	11.4
19	23.3	13.9	19.1	19.3	15.8	15.0	18.9	22.4	20.9	19.4	15.7	22.0
20	22.1	22.3	17.3	20.9	15.8	18.6	18.5	20.5	21.9	16.3	18.2	19.2
21	16.5	22.4	19.6	13.1	18.4	17.9	17.5	13.9	14.1	15.4	14.5	19.0
22	22.7	21.5	17.9	20.3	14.5	21.8	24.3	15.5	13.3	18.5	18.7	13.8
23	19.9	22.7	23.2	22.5	5.9	19.1	16.6	18.2	19.9	17.3	18.0	15.8
24	20.7	17.6	18.2	18.0	16.7	19.5	24.8	12.0	17.8	11.5	7.9	8.6
25	17.9	22.5	22.1	17.5	14.3	14.4	21.0	9.2	19.3	11.3	12.2	21.9
26	18.7	17.4	21.0	13.8	13.7	15.7	13.7	12.5	15.9	16.7	14.5	23.0
27	23.5	26.3	19.4	12.1	13.5	22.1	20.6	22.3	12.2	20.0	17.4	21.8
28	24.0	26.5	19.5	17.7	13.1	18.0	16.9	21.8	11.5	10.6	20.5	17.0
29	12.4		6.2	15.3	19.9	20.8	23.5	23.2	13.0	21.0	20.8	8.0
30	17.9		21.5	13.1	20.1	16.6	22.9	15.7	14.6	15.1	15.9	23.0
31	22.6		15.1		21.6		13.7	21.3		13.4		13.3
Monthly Average	18.6	20.3	20.0	18.9	15.7	16.0	17.6	16.3	15.7	16.6	15.4	15.6

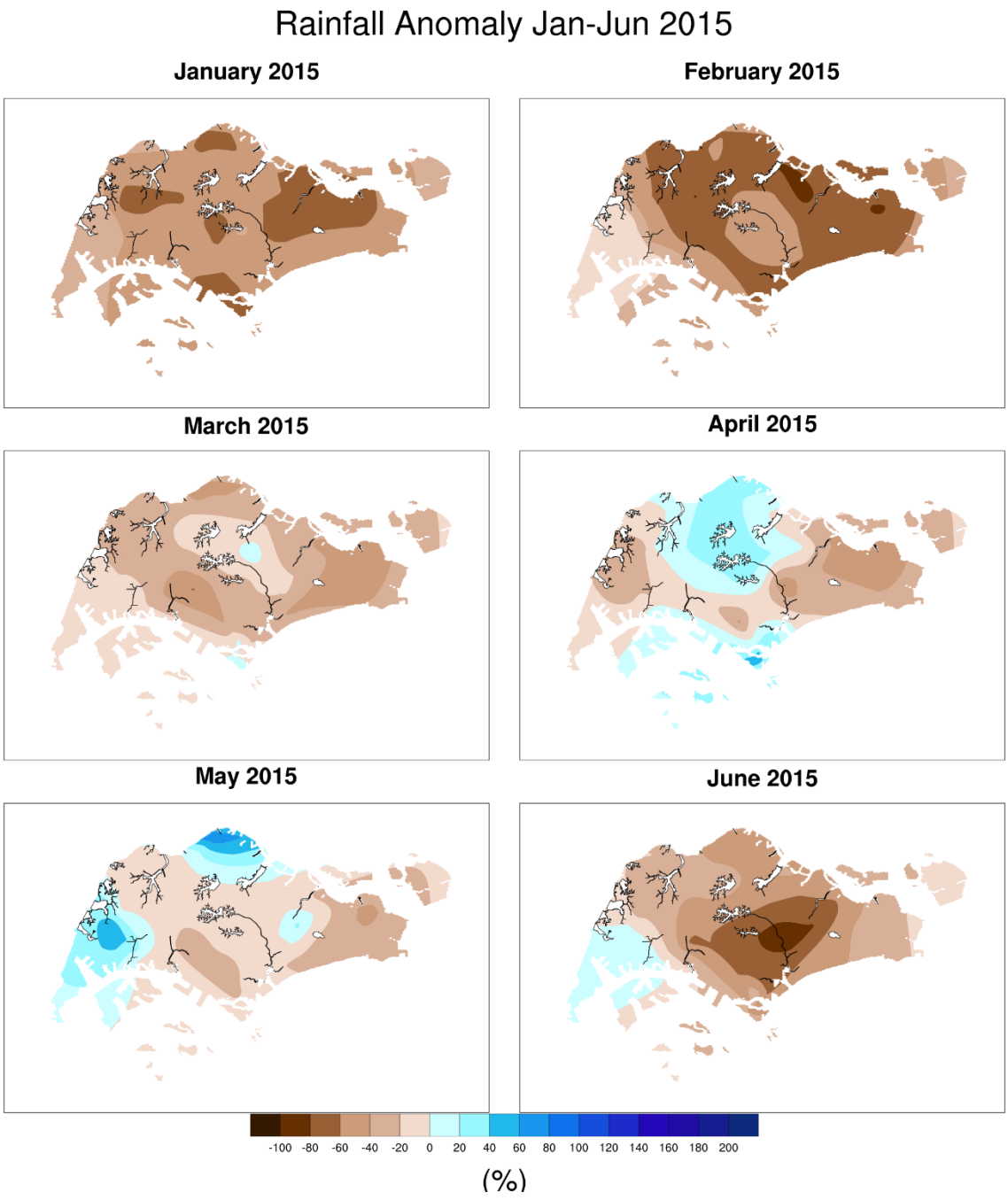
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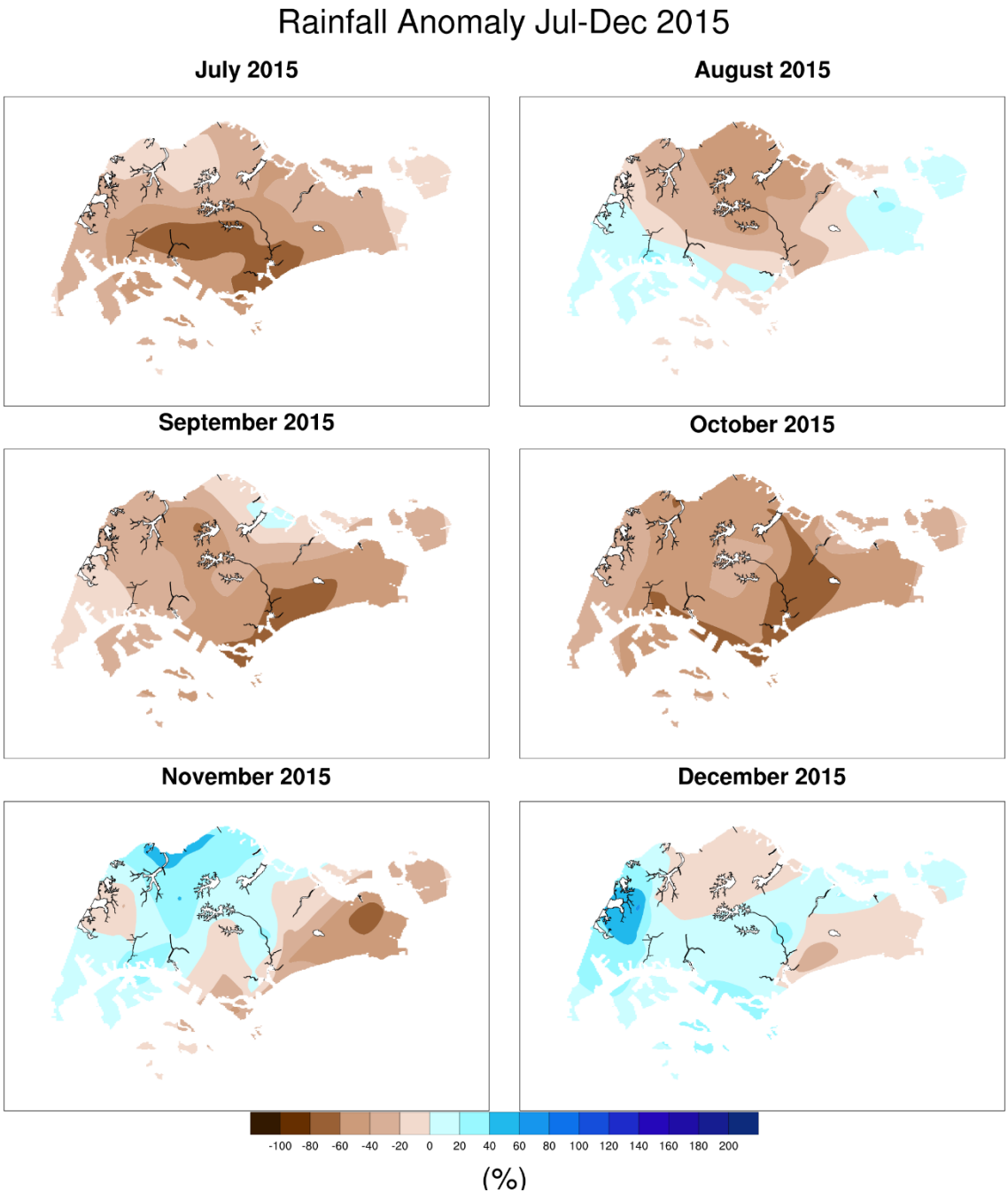
— Defective Data

6. Isohyets


Rainfall Jan-Jun 2015
January 2015
February 2015
March 2015
April 2015
May 2015
June 2015
2
25
50
75
100
150
200
250
300
400
500
(mm)


Rainfall Jul-Dec 2015
July 2015
August 2015
September 2015
October 2015
November 2015
December 2015
2
25
50
75
100
150
200
250
300
400
500
(mm)


Rainfall Anomaly Jan-Jun 2015
January 2015
February 2015
March 2015
April 2015
May 2015
June 2015
-100 -80 -60 -40 -20 0 20 40 60 80 100 120 140 160 180 200
(%)


Rainfall Anomaly Jul-Dec 2015
July 2015
August 2015
September 2015
October 2015
November 2015
December 2015
-100 -80 -60 -40 -20 0 20 40 60 80 100 120 140 160 180 200
(%)

7. Monthly Observation of Weather Parameters

7.1. 2015 Monthly Average Temperature (°C)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Manned Meteorological Stations												
Changi	26.9	27.0	28.2	28.6	28.7	29.0	29.1	28.4	28.7	28.7	28.0	27.7
Paya Lebar	—	—	—	—	—	—	—	—	—	—	—	—
Tengah	26.8	27.1	28.0	27.8	28.3	28.1	28.4	27.8	27.8	28.0	27.0	27.2
Seletar	27.0	27.1	28.2	28.5	28.8	29.3	29.5	28.7	29.0	29.1	28.0	27.9
Sembawang	26.8	26.9	27.9	27.6	27.9	28.4	28.6	28.0	28.0	28.2	27.1	27.3
Automatic Meteorological Stations												
Tai Seng	27.1	27.1	28.2	28.8	29.3	29.5	29.6	28.9	29.2	29.3	28.3	28.0
Jurong (West)	26.4	26.4	27.3	27.6	28.2	28.4	28.7	28.0	28.1	28.1	26.9	27.0
Clementi	26.5	26.6	27.5	27.8	28.3	28.3	28.5	27.8	28.1	28.3	27.3	27.3
Sentosa Island	27.1	27.1	27.9	28.3	28.7	28.8	28.7	28.1	28.4	28.7	28.1	28.0
Boon Lay (East)	27.3	27.3	28.3	28.6	29.2	29.2	29.4	28.6	28.8	29.0	27.8	27.8
Semakau Island	27.0	27.0	27.9	28.5	28.8	29.0	29.0	28.1	28.5	28.8	28.2	27.8
Admiralty	26.4	26.5	27.6	27.9	28.3	28.7	28.8	28.3	28.4	28.6	27.3	27.3
Pulau Ubin	26.3	26.4	27.3	27.6	27.8	28.2	28.4	27.7	27.9	27.8	27.1	27.0
East Coast Parkway	26.8	26.9	27.8	28.4	28.8	29.0	29.0	28.5	28.7	28.7	28.2	28.0
Marina Barrage	27.3	27.4	28.4	28.9	29.4	29.5	29.4	28.8	29.2	29.4	28.7	28.3
Ang Mo Kio	26.5	26.6	27.6	28.1	28.6	28.9	29.0	28.3	28.6	28.7	27.5	27.4
Newton	26.6	26.7	27.7	28.1	28.5	28.5	28.6	27.9	28.2	28.5	27.5	27.4
Tuas South	27.2	27.3	28.1	28.3	29.2	29.2	29.3	28.7	28.7	28.8	27.8	27.7
Pasir Panjang	27.2	27.3	28.2	28.7	29.3	29.3	29.4	28.7	28.9	29.1	28.1	28.1
Jurong Island	27.5	27.3	28.2	28.7	29.1	29.1	29.2	28.5	28.7	28.9	28.1	27.9
Choa Chu Kang (South)	26.8	27.0	27.9	27.8	28.4	28.5	28.6	27.9	28.1	28.2	27.0	27.1
Khatib	26.8	27.0	27.9	27.8	27.9	28.3	28.5	28.0	28.2	28.3	27.3	27.5
Monthly Average	26.9	27.0	27.9	28.2	28.6	28.8	28.9	28.3	28.5	28.6	27.7	27.6

▪ No Data

— Defective Data

7.2. 2015 Monthly Maximum Temperature (°C)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Manned Meteorological Stations												
Changi	32.4	33.6	34.4	34.4	34.2	34.3	32.7	33.1	33.2	33.6	33.6	33.1
Paya Lebar	33.8	34.5	34.5	35.0	34.7	35.0	34.2	34.0	34.0	34.9	34.7	34.8
Tengah	34.2	35.7	35.3	35.2	34.9	35.8	34.5	34.8	34.8	35.0	35.0	34.6
Seletar	33.4	34.9	35.4	36.4	35.2	35.8	35.2	34.5	34.7	35.1	34.4	35.1
Sembawang	32.8	34.2	34.5	34.4	34.1	34.5	33.9	33.7	34.4	34.2	34.2	34.0
Automatic Meteorological Stations												
Tai Seng	32.8	32.9	34.0	34.4	34.9	34.6	34.4	34.0	34.2	34.3	34.5	33.8
Jurong (West)	32.0	33.8	34.0	34.7	33.4	34.1	33.0	32.7	33.6	33.6	34.3	33.5
Clementi	32.3	33.6	33.5	34.8	33.1	33.9	32.8	32.6	33.2	34.3	33.8	33.9
Sentosa Island	32.8	33.2	33.3	33.8	33.1	33.2	33.1	32.7	32.6	33.6	34.1	33.7
Boon Lay (East)	33.9	34.1	34.4	35.2	34.5	34.7	33.5	33.6	33.2	33.9	34.3	34.3
Semakau Island	31.5	31.1	31.9	32.2	33.6	32.0	32.9	31.8	31.5	32.4	31.9	31.4
Admiralty	32.8	34.1	35.0	34.8	34.3	35.1	34.1	33.4	33.9	34.2	34.2	33.7
Pulau Ubin	31.9	33.3	34.0	35.1	34.5	35.2	34.7	33.7	33.7	34.7	33.9	34.0
East Coast Parkway	32.0	32.3	31.9	32.8	32.0	31.8	31.5	31.5	31.5	31.6	31.8	32.5
Marina Barrage	34.5	34.9	35.2	34.3	34.8	34.7	33.9	34.2	34.1	34.2	34.4	34.7
Ang Mo Kio	32.6	33.8	34.8	34.1	34.2	34.9	33.8	33.6	33.7	34.9	34.5	33.8
Newton	32.2	32.9	33.9	33.5	34.1	33.5	32.7	32.4	32.7	34.2	34.3	33.1
Tuas South	32.6	35.2	34.8	34.2	34.4	34.3	33.8	33.2	33.3	32.9	33.5	33.9
Pasir Panjang	32.3	34.1	33.3	33.9	33.8	33.3	33.5	32.8	33.1	33.0	33.8	33.1
Jurong Island	33.0	34.4	34.3	34.0	33.9	33.4	33.2	32.8	33.1	33.2	33.6	33.4
Choa Chu Kang (South)	32.8	34.2	34.3	34.8	34.2	35.2	33.5	33.8	33.5	33.9	34.2	33.7
Khatib	33.0	34.1	34.7	34.9	34.4	34.5	33.9	34.0	34.4	34.2	34.2	34.5
Monthly Average	32.8	33.9	34.1	34.4	34.1	34.3	33.6	33.3	33.5	33.9	34.0	33.8

▪ No Data

— Defective Data

7.3. 2015 Monthly Average Relative Humidity (%)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Manned Meteorological Stations												
Changi	77.6	75.4	75.8	77.1	78.9	75.8	74.9	76.3	74.9	75.5	79.1	81.1
Paya Lebar	—	—	—	—	—	—	—	—	—	—	—	—
Tengah	79.0	77.0	78.0	82.4	83.1	80.2	77.6	79.5	78.8	78.4	84.5	83.8
Seletar	75.3	73.3	74.0	75.8	76.4	71.7	69.5	71.5	69.7	71.2	78.6	78.9
Sembawang	78.7	77.1	79.0	83.8	83.6	80.9	78.9	81.0	79.8	78.7	83.8	83.5
Automatic Meteorological Stations												
Tai Seng	74.7	74.7	75.0	75.6	76.4	73.5	72.5	74.8	72.9	72.2	77.5	79.1
Jurong (West)	75.6	74.7	76.7	79.6	79.1	76.8	73.6	76.1	75.7	75.7	85.4	85.3
Clementi	77.8	77.5	78.7	80.8	80.8	79.2	77.6	79.6	78.3	77.2	82.4	82.9
Sentosa Island	70.8	69.6	72.7	76.4	79.0	76.6	75.7	77.6	75.4	73.0	75.3	74.5
Boon Lay (East)	74.8	74.6	75.7	77.9	77.8	76.2	73.8	76.8	75.8	74.6	82.9	82.6
Semakau Island	73.8	74.8	76.5	77.0	77.7	76.1	76.0	77.9	76.8	74.5	77.5	78.3
Admiralty	84.8	84.4	84.6	86.8	88.3	84.4	82.9	84.1	83.3	81.9	89.9	89.5
Pulau Ubin	86.6	85.3	85.8	87.7	90.6	87.4	86.3	88.2	87.2	87.7	90.3	91.2
East Coast Parkway	72.7	72.0	73.5	76.0	76.9	—	—	80.2	79.5	79.6	81.0	82.1
Marina Barrage	74.8	74.2	75.0	77.5	78.5	76.4	77.0	77.7	75.8	74.5	77.3	78.8
Ang Mo Kio	74.9	73.4	73.8	76.0	76.9	73.3	71.2	73.9	72.1	72.2	80.3	81.4
Newton	74.5	75.7	76.3	77.0	80.2	77.8	78.5	78.1	77.9	75.3	81.0	76.4
Tuas South	73.7	73.1	74.7	77.3	76.0	74.8	73.6	75.0	75.5	75.1	79.9	80.1
Pasir Panjang	77.4	77.2	79.4	80.9	81.6	80.3	79.2	81.1	80.4	78.9	84.7	84.5
Jurong Island	73.2	74.1	76.3	79.3	78.0	74.2	73.3	74.8	74.6	72.8	77.3	78.3
Choa Chu Kang (South)	74.8	74.7	76.2	72.3	70.2	—	—	83.9	82.9	82.7	89.6	89.4
Khatib	71.6	71.0	73.0	78.3	71.4	—	—	69.8	79.1	79.6	—	78.6
Monthly Average	76.0	75.4	76.7	78.9	79.1	77.6	76.3	78.1	77.6	76.8	82.1	82.0

▪ No Data

— Defective Data

7.4. 2015 Monthly Minimum Relative Humidity (%)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Manned Meteorological Stations												
Changi	49.0	49.0	47.0	48.0	46.0	42.0	51.0	40.0	40.0	35.0	47.0	49.0
Paya Lebar	—	—	—	—	—	—	—	—	—	—	—	—
Tengah	—	—	—	—	—	—	—	—	—	—	—	—
Seletar	—	—	—	—	—	—	—	—	—	—	—	—
Sembawang	—	—	—	—	—	—	—	—	—	—	—	—
Automatic Meteorological Stations												
Tai Seng	42.0	43.3	45.8	45.4	43.6	39.1	38.6	39.7	40.0	31.9	44.3	46.7
Jurong (West)	40.4	38.9	38.9	40.3	39.2	38.1	44.5	35.0	43.2	34.1	41.9	43.7
Clementi	46.4	43.7	48.0	47.4	51.9	46.1	48.5	48.5	49.5	40.5	48.2	50.1
Sentosa Island	30.4	37.7	39.1	40.6	47.5	47.5	31.7	37.3	35.0	32.5	40.2	38.2
Boon Lay (East)	39.5	41.5	40.5	44.9	41.0	40.9	46.2	40.4	45.2	34.0	43.7	44.3
Semakau Island	40.4	44.0	49.3	56.9	46.3	53.7	45.0	40.3	50.0	51.5	55.8	53.4
Admiralty	44.0	42.5	43.5	44.1	42.3	42.5	46.1	42.1	43.0	39.0	48.7	42.9
Pulau Ubin	53.6	53.5	51.6	52.9	50.9	44.1	50.4	40.2	46.2	41.0	53.0	54.2
East Coast Parkway	33.4	44.6	41.9	42.3	43.6	—	—	48.0	53.9	48.1	59.2	50.0
Marina Barrage	37.9	37.2	42.1	47.5	46.2	49.1	48.1	42.8	45.1	38.5	48.2	42.7
Ang Mo Kio	37.0	40.2	35.7	41.7	37.4	35.4	39.0	30.8	38.3	30.3	39.3	43.0
Newton	37.3	43.8	40.6	44.8	42.0	42.1	44.6	38.8	43.3	30.2	45.8	46.2
Tuas South	39.9	39.8	42.6	47.4	42.8	44.2	44.8	44.0	52.2	50.6	49.3	45.9
Pasir Panjang	41.6	44.0	44.4	49.0	49.0	47.8	44.7	42.0	47.7	40.9	52.6	48.2
Jurong Island	32.1	36.0	37.3	43.5	38.5	44.1	46.2	43.2	41.4	38.6	48.3	37.6
Choa Chu Kang (South)	34.9	35.1	36.7	40.6	49.4	—	—	43.9	49.4	41.0	53.1	54.1
Khatib	34.5	34.4	37.4	40.1	43.7	—	—	37.7	41.7	37.5	49.0	46.5
Monthly Average	39.1	41.2	42.1	45.3	44.4	43.9	44.2	40.9	45.0	38.8	48.3	46.3

▪ No Data

— Defective Data

7.5. 2015 Monthly Average Wind Speed (m/s)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Manned Meteorological Stations												
Changi	3.1	3.5	3.0	2.3	2.4	2.7	3.3	3.3	2.9	2.6	1.8	2.2
Paya Lebar	5.0	5.2	3.9	2.9	2.8	3.3	3.6	3.2	3.1	2.5	2.3	3.3
Tengah	3.8	3.9	2.9	2.4	2.3	2.6	2.8	2.7	2.5	2.2	2.0	2.7
Seletar	4.4	5.1	3.8	2.8	2.5	3.0	3.3	3.2	3.0	2.7	2.1	3.0
Sembawang	3.5	3.9	3.1	2.2	1.8	2.5	2.8	2.6	2.4	2.1	1.9	2.5
Automatic Meteorological Stations												
Tai Seng	3.5	3.7	2.8	1.9	1.6	1.9	2.0	1.8	1.7	1.6	1.5	2.1
Jurong (West)	2.4	2.4	2.0	1.7	1.9	2.2	2.6	2.5	2.2	1.8	1.6	1.9
Clementi	1.8	2.0	1.6	1.2	1.4	1.8	2.0	1.8	1.7	1.4	1.3	1.5
Sentosa Island	2.2	2.7	2.3	1.8	1.6	1.7	2.0	2.4	2.3	2.3	1.9	2.0
Boon Lay (East)	2.6	2.7	2.2	1.8	1.7	2.0	2.1	1.8	1.8	1.6	1.6	1.8
Semakau Island	5.8	6.5	5.2	4.3	3.7	4.3	4.6	4.3	4.5	4.0	5.1	4.8
Admiralty	3.6	3.8	3.1	2.3	1.7	1.8	2.0	2.1	1.9	1.9	1.8	2.4
Pulau Ubin	2.6	2.7	2.1	2.0	1.9	2.1	2.2	2.3	2.1	2.1	2.3	2.5
East Coast Parkway	3.0	3.1	2.5	2.1	3.0	3.6	4.4	4.1	3.6	2.8	2.0	2.1
Marina Barrage	2.8	2.7	2.0	1.5	1.2	1.3	1.5	1.4	1.4	1.3	1.6	2.2
Ang Mo Kio	2.1	2.3	1.8	1.4	1.5	1.6	2.0	2.0	1.8	1.6	1.2	1.5
Newton	2.1	2.2	1.9	1.6	2.1	2.3	2.7	2.6	2.4	2.2	1.4	1.6
Tuas South	2.0	1.9	1.6	1.5	1.5	1.7	1.6	1.4	1.4	1.3	1.6	1.5
Pasir Panjang	3.9	3.6	2.8	2.4	2.5	2.7	3.0	2.9	2.7	2.4	2.3	2.8
Jurong Island	—	2.3	2.0	1.9	2.9	3.2	3.7	3.6	3.2	2.9	1.6	1.6
Choa Chu Kang (South)	2.2	2.4	1.7	1.2	1.1	1.4	1.5	1.4	1.3	1.2	1.2	1.6
Khatib	1.9	2.0	1.6	1.3	1.1	1.3	1.5	1.4	1.3	1.2	1.0	1.3
Monthly Average	3.1	3.2	2.5	2.0	2.0	2.3	2.6	2.5	2.3	2.1	1.9	2.2

▪ No Data

— Defective Data

7.6. 2015 Monthly Maximum Gust (m/s)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Manned Meteorological Stations												
Changi	11.8	12.0	12.5	10.3	14.3	12.3	16.5	13.6	12.0	16.5	10.5	12.1
Paya Lebar	25.0	27.0	28.0	26.0	27.0	24.0	32.0	27.0	24.0	26.0	24.0	30.0
Tengah	24.0	26.0	25.0	31.0	24.0	21.0	32.0	30.0	23.0	28.0	27.0	28.0
Seletar	38.0	27.0	32.0	29.0	24.0	25.0	43.0	30.0	34.0	31.0	28.0	29.0
Sembawang	26.0	29.0	35.0	25.0	29.0	27.0	38.0	31.0	25.0	38.0	28.0	26.0
Automatic Meteorological Stations												
Tai Seng	12.4	13.3	20.3	11.1	12.6	23.0	13.8	10.8	13.6	11.4	18.9	18.1
Jurong (West)	10.4	13.2	17.7	15.7	10.2	12.6	17.1	19.7	14.4	14.1	14.2	14.5
Clementi	11.3	12.8	10.9	12.9	12.1	11.2	15.3	12.8	11.9	16.0	9.8	11.8
Sentosa Island	10.5	11.5	11.8	11.8	12.2	10.4	16.7	13.0	10.6	18.7	11.5	11.2
Boon Lay (East)	12.0	11.0	21.4	22.3	12.4	19.8	16.2	14.6	14.3	16.4	17.9	19.0
Semakau Island	15.0	17.9	17.1	21.3	18.9	15.2	22.2	21.0	25.8	18.0	18.3	22.2
Admiralty	12.4	14.1	16.0	17.6	10.8	13.1	16.1	17.6	14.6	15.5	13.5	15.7
Pulau Ubin	9.8	10.6	9.7	20.2	13.5	11.6	14.6	12.5	13.4	11.4	10.6	12.6
East Coast Parkway	13.6	14.5	14.2	15.0	15.9	15.2	17.2	15.8	15.4	15.7	10.0	16.3
Marina Barrage	21.0	11.5	15.9	24.7	21.1	11.4	10.4	12.5	18.9	10.1	21.1	25.5
Ang Mo Kio	10.7	12.0	13.3	13.1	10.6	11.5	15.3	12.1	20.5	14.3	12.3	16.1
Newton	12.3	13.1	12.2	14.5	12.5	12.8	14.9	14.4	12.8	16.4	10.6	13.3
Tuas South	8.1	13.0	12.7	10.4	11.9	13.7	14.2	14.9	15.8	8.7	15.8	19.4
Pasir Panjang	13.2	15.9	15.1	17.0	16.9	14.6	19.3	16.5	16.0	15.7	16.0	16.1
Jurong Island	—	13.2	15.7	14.5	15.3	10.8	16.7	18.9	15.7	19.9	15.8	12.6
Choa Chu Kang (South)	10.1	11.0	10.2	12.4	10.8	27.4	13.9	12.4	11.5	12.4	36.6	31.7
Khatib	9.3	10.1	9.6	11.2	10.1	9.8	13.3	11.0	10.3	9.4	9.2	9.6
Monthly Average	15.3	15.6	17.3	17.9	15.8	16.2	19.6	17.5	17.2	17.5	17.6	19.0

▪ No Data

— Defective Data

7.7. 2015 Monthly Total Rainfall (mm)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Yearly Total
Manned Meteorological Stations													
Changi	79.6	18.8	84.4	73.2	89.0	95.8	116.8	185.8	61.6	87.2	72.6	302.0	1266.8
Paya Lebar	71.3	34.7	156.1	131.0	241.2	26.4	108.6	166.4	81.2	51.7	226.4	281.8	1576.8
Tengah	84.8	57.9	187.9	266.5	203.9	—	125.4	138.3	128.7	99.0	275.9	264.5	—
Seletar	94.0	25.5	174.7	202.6	223.2	96.9	97.6	90.2	217.0	68.8	286.3	280.0	1856.8
Sembawang	130.3	30.8	179.3	—	261.0	55.6	153.5	100.5	116.9	94.9	329.8	285.0	—
Automatic Meteorological Stations													
Tai Seng	74.2	42.0	220.0	159.8	200.2	25.4	80.8	150.0	76.0	60.0	190.0	306.2	1584.6
Jurong (West)	—	151.4	196.4	167.6	352.4	189.2	109.0	196.4	161.6	150.8	248.8	424.4	—
Clementi	106.2	52.6	87.8	283.6	154.8	69.6	51.4	127.8	95.2	127.8	320.2	336.2	1813.2
Sentosa Island	67.6	47.0	190.4	274.6	157.4	80.0	77.4	146.2	46.4	56.8	—	391.8	—
Boon Lay (East)	82.2	68.2	197.0	202.6	259.2	161.2	48.0	170.6	154.2	81.6	268.0	256.8	1949.6
Semakau Island	32.0	88.0	109.8	161.9	92.6	86.9	100.2	—	—	57.4	140.0	220.0	—
Admiralty	76.4	65.2	138.6	319.4	261.4	62.0	176.2	83.0	157.4	85.6	351.2	270.4	2046.8
Pulau Ubin	86.2	30.8	88.4	101.6	190.2	48.8	78.8	181.2	49.8	86.2	74.6	262.4	1279.0
East Coast Parkway	53.0	49.8	81.0	144.2	72.8	29.6	52.2	154.4	58.8	53.6	61.0	220.6	1031.0
Marina Barrage	123.4	49.4	101.2	259.2	148.8	49.0	—	163.0	59.2	73.4	170.6	238.6	—
Ang Mo Kio	88.8	72.2	235.0	279.2	191.8	54.6	104.0	120.0	130.4	128.0	303.2	311.2	2018.4
Newton	122.6	81.6	145.6	152.2	169.8	41.4	74.6	220.2	151.2	87.6	218.4	360.4	1825.6
Tuas South	76.6	87.0	225.2	225.0	83.8	67.8	107.8	173.2	224.8	—	243.2	317.8	—
Pasir Panjang	71.2	35.4	165.6	187.0	116.8	113.0	—	210.4	71.8	79.4	231.2	301.8	—
Jurong Island	47.0	98.4	165.0	168.6	66.8	74.0	59.0	111.8	146.6	70.6	297.8	494.0	1799.6
Choa Chu Kang (South)	89.0	31.8	164.4	278.2	208.8	164.4	82.2	138.4	80.6	130.4	240.0	267.0	1875.2
Khatib	115.4	50.4	183.9	272.9	224.2	62.0	147.6	87.0	118.6	119.8	306.4	267.8	1956.0
Monthly Average	84.6	59.5	161.6	211.9	184.8	77.9	96.5	146.5	116.3	88.2	239.2	302.8	1769.7

▪ No Data

— Defective Data

7.7. 2015 Monthly Total Rainfall (mm)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Yearly Total
Precipitation Stations													
Macritchie Reservoir	—	72.4	170.4	292.6	176.4	31.8	—	100.2	115.4	96.2	295.4	312.0	—
Lower Peirce Reservoir	71.9	50.6	222.8	329.6	187.8	48.2	118.6	111.8	126.0	147.2	324.2	319.2	2057.9
Choa Chu Kang (West)	66.4	—	—	169.4	—	103.6	—	—	124.2	167.8	194.0	447.8	—
Pasir Ris (West)	44.4	35.0	99.0	97.6	136.0	65.3	110.6	151.8	—	—	—	—	—
Kampong Bahru	84.0	39.8	220.6	226.0	155.0	120.4	64.4	208.2	76.6	86.0	181.2	340.8	1803.0
Jurong Pier	92.6	130.8	192.4	283.0	208.8	187.8	98.6	232.9	—	79.4	343.8	297.4	—
Ulu Pandan	111.7	38.0	103.2	256.0	182.0	62.2	41.8	141.2	138.2	95.7	—	312.1	—
Serangoon	79.0	78.9	—	84.7	—	2.8	82.0	139.2	73.8	76.4	361.6	410.2	—
Mandai	129.8	57.0	244.6	322.8	214.2	121.6	176.6	102.4	71.2	126.4	309.6	269.6	2145.8
Upper Thomson	68.6	60.8	166.0	297.2	208.0	41.2	62.2	105.0	120.6	163.2	231.6	308.4	1832.8
Buangkok	89.8	19.0	133.4	234.8	178.0	54.2	112.4	99.4	134.4	56.6	215.2	339.0	1666.2
Chai Chee	48.0	42.6	100.2	86.4	206.4	35.8	76.4	205.4	74.4	76.6	160.6	313.0	1425.8
Boon Lay (West)	92.2	91.6	214.6	212.2	300.6	191.0	80.4	182.8	153.2	86.8	254.4	287.0	2146.8
Bukit Panjang	84.6	28.0	196.2	295.6	201.8	90.2	146.4	149.4	115.2	107.2	367.0	261.6	2043.2
Kranji Reservoir	141.4	35.4	174.8	256.4	169.8	120.6	175.6	126.8	123.0	80.0	374.6	272.4	2050.8
Upp Peirce Reservoir	86.4	41.6	183.0	271.4	162.2	45.0	137.2	121.6	—	116.0	—	263.4	—
Kent Ridge	66.0	38.0	—	203.4	158.6	79.6	53.4	210.2	81.8	91.2	257.4	388.2	—
Tanjong Pagar	140.0	36.8	150.2	271.4	166.0	53.6	70.6	—	65.6	62.0	—	—	—
Queenstown	94.8	47.8	133.8	129.4	145.8	65.4	91.2	194.8	106.0	85.4	216.4	326.4	1637.2
Tanjong Katong	112.0	46.4	112.0	151.2	143.6	60.0	51.8	106.2	47.0	65.2	157.0	197.6	1250.0
Somerset (Road)	—	69.6	169.8	173.4	140.8	36.4	89.6	195.8	128.6	104.6	195.0	368.2	—
Punggol	56.4	21.4	132.6	140.4	171.8	81.8	103.0	168.2	101.0	72.6	154.0	261.8	1465.0
Tuas West	49.4	103.2	195.0	194.6	169.9	136.8	70.2	203.8	141.6	—	—	—	—
Simei	39.6	31.8	49.4	71.2	192.6	30.8	77.6	244.4	89.4	81.4	158.0	278.4	1344.6
Toa Payoh	65.0	80.2	201.4	187.8	136.4	41.0	77.8	102.6	96.2	66.0	331.2	374.0	1759.6
Tuas	80.7	115.4	246.6	175.6	212.2	112.4	77.2	169.6	143.0	157.0	349.6	409.0	2248.3
Bukit Timah	112.2	59.8	142.0	199.4	177.6	54.4	81.2	159.6	166.2	83.8	—	—	—
Yishun	100.0	57.4	128.4	224.8	280.6	67.2	119.0	93.4	116.0	93.0	278.0	267.4	1825.2
Buona Vista	59.8	38.8	142.2	182.1	197.4	90.4	59.4	174.4	78.0	68.6	261.2	349.4	1701.7
Pasir Ris (Central)	56.6	35.4	49.2	78.8	153.0	59.2	118.4	237.4	82.6	63.0	156.2	223.6	1313.4
Jurong (North)	—	58.4	203.6	245.0	287.0	—	—	—	—	—	—	—	—
Admiralty West	74.4	52.0	131.0	350.8	367.6	62.2	133.4	77.8	151.8	79.6	348.2	272.8	2101.6
Serangoon North	79.6	33.8	225.4	230.6	182.4	42.0	114.0	119.2	98.8	68.4	311.8	361.2	1867.2
Lim Chu Kang	115.8	38.4	—	224.6	—	108.4	193.2	124.6	—	83.2	272.4	298.6	—
Marine Parade	74.2	52.2	83.6	110.2	129.6	30.6	68.4	146.8	—	—	118.4	221.4	—
Choa Chu Kang (Central)	97.4	24.0	169.2	328.6	216.6	169.8	107.4	137.2	75.0	96.2	333.0	225.4	1979.8
Dhoby Ghaut	157.2	69.0	174.0	200.8	159.4	25.0	88.2	215.6	129.4	99.8	222.0	379.4	1919.8
Nicoll Highway	156.6	60.2	126.0	—	189.6	53.0	90.4	195.6	69.4	106.0	243.2	316.8	—
Botanic Garden	129.2	55.2	132.6	171.8	147.6	55.0	89.6	197.2	167.2	83.4	229.2	351.4	1809.4
Whampoa	142.6	107.0	152.8	198.2	161.4	24.6	54.0	196.0	107.8	—	274.4	342.4	—
Monthly Average	89.1	53.9	157.7	209.5	189.3	74.7	97.5	157.0	108.5	93.5	256.4	312.5	1799.4

▪ No Data

— Defective Data

8. Weather Parameter Observation by Months

8.1. Jan to Apr

January 2015

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	79.6	23.3	26.9	32.4	77.6	11.8	3.1	NE	1012.1
Paya Lebar	71.3	23.6		33.8		25.0	5.0	NNE	1011.7
Tengah	84.8	21.9	26.8	34.2	79.0	24.0	3.8	N	1011.6
Seletar	94.0	23.9	27.0	33.4	75.3	38.0	4.4	N	1011.7
Sembawang	130.3	22.5	26.8	32.8	78.7	26.0	3.5	NNE	1011.7
Automatic Meteorological Stations									
Tai Seng	74.2	24.3	27.1	32.8	74.7	12.4	3.5	ENE	1012.6
Jurong (West)	—	23.1	26.4	32.0	75.6	10.4	2.4	N	
Clementi	106.2	23.1	26.5	32.3	77.8	11.3	1.8	NE	
Sentosa Island	67.6	23.7	27.1	32.8	70.8	10.5	2.2	NNE	1012.5
Boon Lay (East)	82.2	23.1	27.3	33.9	74.8	12.0	2.6	ENE	1012.4
Semakau Island	32.0	23.8	27.0	31.5	73.8	15.0	5.8	N	1011.8
Admiralty	76.4	23.3	26.4	32.8	84.8	12.4	3.6	N	
Pulau Ubin	86.2	22.6	26.3	31.9	86.6	9.8	2.6	NNW	1012.5
East Coast Parkway	53.0	24.4	26.8	32.0	72.7	13.6	3.0	N	1012.6
Marina Barrage	123.4	23.9	27.3	34.5	74.8	21.0	2.8	NNW	1012.3
Ang Mo Kio	88.8	23.4	26.5	32.6	74.9	10.7	2.1	NNE	1012.6
Newton	122.6	23.3	26.6	32.2	74.5	12.3	2.1	N	
Tuas South	76.6	23.6	27.2	32.6	73.7	8.1	2.0	NE	1012.4
Pasir Panjang	71.2	23.9	27.2	32.3	77.4	13.2	3.9	NE	1012.1
Jurong Island	47.0	22.8	27.5	33.0	73.2	—	—	—	1012.1
Choa Chu Kang (South)	89.0	22.0	26.8	32.8	74.8	10.1	2.2	NNE	1012.4
Khatib	115.4	23.1	26.8	33.0	71.6	9.3	1.9	NNW	1012.8

No Data

— Defective Data

February 2015

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	18.8	23.1	27.0	33.6	75.4	12.0	3.5	NE	1012.0
Paya Lebar	34.7	23.3		34.5		27.0	5.2	NE	1011.6
Tengah	57.9	21.9	27.1	35.7	77.0	26.0	3.9	NNE	1011.4
Seletar	25.5	23.0	27.1	34.9	73.3	27.0	5.1	N	1011.6
Sembawang	30.8	21.7	26.9	34.2	77.1	29.0	3.9	NE	1011.5
Automatic Meteorological Stations									
Tai Seng	42.0	23.2	27.1	32.9	74.7	13.3	3.7	ENE	1012.4
Jurong (West)	151.4	22.3	26.4	33.8	74.7	13.2	2.4	NE	
Clementi	52.6	22.4	26.6	33.6	77.5	12.8	2.0	NE	
Sentosa Island	47.0	22.5	27.1	33.2	69.6	11.5	2.7	NE	1012.4
Boon Lay (East)	68.2	22.9	27.3	34.1	74.6	11.0	2.7	E	1012.2
Semakau Island	88.0	23.1	27.0	31.1	74.8	17.9	6.5	NNE	1011.7
Admiralty	65.2	23.0	26.5	34.1	84.4	14.1	3.8	NE	
Pulau Ubin	30.8	22.1	26.4	33.3	85.3	10.6	2.7	NNW	1011.6
East Coast Parkway	49.8	22.8	26.9	32.3	72.0	14.5	3.1	NNE	1012.5
Marina Barrage	49.4	22.7	27.4	34.9	74.2	11.5	2.7	NE	1012.2
Ang Mo Kio	72.2	22.5	26.6	33.8	73.4	12.0	2.3	NE	1012.5
Newton	81.6	22.3	26.7	32.9	75.7	13.1	2.2	E	
Tuas South	87.0	23.6	27.3	35.2	73.1	13.0	1.9	NE	1012.3
Pasir Panjang	35.4	23.2	27.3	34.1	77.2	15.9	3.6	NE	1012.0
Jurong Island	98.4	22.3	27.3	34.4	74.1	13.2	2.3	N	1011.9
Choa Chu Kang (South)	31.8	23.2	27.0	34.2	74.7	11.0	2.4	NNE	1012.2
Khatib	50.4	22.6	27.0	34.1	71.0	10.1	2.0	NE	1012.6

▪ No Data

— Defective Data

March 2015

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	84.4	23.4	28.2	34.4	75.8	12.5	3.0	NE	1011.8
Paya Lebar	156.1	22.2		34.5		28.0	3.9	NE	1011.3
Tengah	187.9	22.6	28.0	35.3	78.0	25.0	2.9	NE	1011.2
Seletar	174.7	22.6	28.2	35.4	74.0	32.0	3.8	NNE	1011.3
Sembawang	179.3	22.1	27.9	34.5	79.0	35.0	3.1	NE	1011.3
Automatic Meteorological Stations									
Tai Seng	220.0	22.0	28.2	34.0	75.0	20.3	2.8	ENE	1012.2
Jurong (West)	196.4	21.7	27.3	34.0	76.7	17.7	2.0	N	
Clementi	87.8	22.5	27.5	33.5	78.7	10.9	1.6	NE	
Sentosa Island	190.4	22.3	27.9	33.3	72.7	11.8	2.3	NE	1012.3
Boon Lay (East)	197.0	22.6	28.3	34.4	75.7	21.4	2.2	E	1012.1
Semakau Island	109.8	22.7	27.9	31.9	76.5	17.1	5.2	NNE	1011.6
Admiralty	138.6	22.4	27.6	35.0	84.6	16.0	3.1	NE	
Pulau Ubin	88.4	22.5	27.3	34.0	85.8	9.7	2.1	NNW	1012.2
East Coast Parkway	81.0	23.4	27.8	31.9	73.5	14.2	2.5	NNE	1012.3
Marina Barrage	101.2	22.6	28.4	35.2	75.0	15.9	2.0	NE	1012.1
Ang Mo Kio	235.0	22.0	27.6	34.8	73.8	13.3	1.8	NE	1012.3
Newton	145.6	21.9	27.7	33.9	76.3	12.2	1.9	E	
Tuas South	225.2	22.6	28.1	34.8	74.7	12.7	1.6	NE	1012.1
Pasir Panjang	165.6	22.2	28.2	33.3	79.4	15.1	2.8	NE	1011.9
Jurong Island	165.0	22.6	28.2	34.3	76.3	15.7	2.0	N	1011.8
Choa Chu Kang (South)	164.4	23.5	27.9	34.3	76.2	10.2	1.7	NNE	1012.1
Khatib	183.9	22.2	27.9	34.7	73.0	9.6	1.6	NE	1012.4

▪ No Data

— Defective Data

April 2015

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	73.2	24.0	28.6	34.4	77.1	10.3	2.3	NE	1010.2
Paya Lebar	131.0	24.0		35.0		26.0	2.9	NE	1009.7
Tengah	266.5	23.2	27.8	35.2	82.4	31.0	2.4	N	1009.6
Seletar	202.6	23.7	28.5	36.4	75.8	29.0	2.8	N	1009.8
Sembawang	—	22.8	27.6	34.4	83.8	25.0	2.2	NE	1009.7
Automatic Meteorological Stations									
Tai Seng	159.8	24.2	28.8	34.4	75.6	11.1	1.9	ENE	1010.7
Jurong (West)	167.6	22.5	27.6	34.7	79.6	15.7	1.7	N	
Clementi	283.6	22.3	27.8	34.8	80.8	12.9	1.2	NE	
Sentosa Island	274.6	22.3	28.3	33.8	76.4	11.8	1.8	NE	1010.7
Boon Lay (East)	202.6	22.8	28.6	35.2	77.9	22.3	1.8	E	1010.5
Semakau Island	161.9	22.9	28.5	32.2	77.0	21.3	4.3	NNE	1010.1
Admiralty	319.4	21.7	27.9	34.8	86.8	17.6	2.3	N	
Pulau Ubin	101.6	22.5	27.6	35.1	87.7	20.2	2.0	NW	1010.6
East Coast Parkway	144.2	23.4	28.4	32.8	76.0	15.0	2.1	NNE	1010.7
Marina Barrage	259.2	22.8	28.9	34.3	77.5	24.7	1.5	NNW	1010.5
Ang Mo Kio	279.2	22.5	28.1	34.1	76.0	13.1	1.4	ENE	1010.7
Newton	152.2	22.7	28.1	33.5	77.0	14.5	1.6	E	
Tuas South	225.0	22.8	28.3	34.2	77.3	10.4	1.5	NNE	1010.6
Pasir Panjang	187.0	22.8	28.7	33.9	80.9	17.0	2.4	NE	1010.3
Jurong Island	168.6	23.7	28.7	34.0	79.3	14.5	1.9	NNW	1010.3
Choa Chu Kang (South)	278.2	22.8	27.8	34.8	72.3	12.4	1.2	N	1010.6
Khatib	272.9	23.0	27.8	34.9	78.3	11.2	1.3	NE	1010.9

No Data

— Defective Data

8.2. May to Aug

May 2015

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	89.0	24.0	28.7	34.2	78.9	14.3	2.4	S	1010.4
Paya Lebar	241.2	23.3		34.7		27.0	2.8	S	1010.0
Tengah	203.9	23.1	28.3	34.9	83.1	24.0	2.3	N	1009.9
Seletar	223.2	23.7	28.8	35.2	76.4	24.0	2.5	ESE	1010.0
Sembawang	261.0	23.1	27.9	34.1	83.6	29.0	1.8	S	1010.0
Automatic Meteorological Stations									
Tai Seng	200.2	23.9	29.3	34.9	76.4	12.6	1.6	S	1010.9
Jurong (West)	352.4	22.6	28.2	33.4	79.1	10.2	1.9	SE	
Clementi	154.8	23.6	28.3	33.1	80.8	12.1	1.4	SSE	
Sentosa Island	157.4	23.5	28.7	33.1	79.0	12.2	1.6	SE	1011.0
Boon Lay (East)	259.2	23.5	29.2	34.5	77.8	12.4	1.7	S	1010.8
Semakau Island	92.6	23.9	28.8	33.6	77.7	18.9	3.7	S	1010.3
Admiralty	261.4	22.9	28.3	34.3	88.3	10.8	1.7	S	
Pulau Ubin	190.2	23.4	27.8	34.5	90.6	13.5	1.9	NW	1010.8
East Coast Parkway	72.8	23.6	28.8	32.0	76.9	15.9	3.0	SE	1011.0
Marina Barrage	148.8	24.0	29.4	34.8	78.5	21.1	1.2	S	1010.8
Ang Mo Kio	191.8	23.4	28.6	34.2	76.9	10.6	1.5	E	1010.9
Newton	169.8	23.8	28.5	34.1	80.2	12.5	2.1	ESE	
Tuas South	83.8	25.1	29.2	34.4	76.0	11.9	1.5	SSW	1010.9
Pasir Panjang	116.8	23.7	29.3	33.8	81.6	16.9	2.5	ESE	1010.6
Jurong Island	66.8	24.1	29.1	33.9	78.0	15.3	2.9	ESE	1010.6
Choa Chu Kang (South)	208.8	23.5	28.4	34.2	70.2	10.8	1.1	N	1010.8
Khatib	224.2	23.2	27.9	34.4	71.4	10.1	1.1	S	1011.1

▪ No Data

— Defective Data

June 2015

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	95.8	24.2	29.0	34.3	75.8	12.3	2.7	S	1010.1
Paya Lebar	26.4	24.4		35.0		24.0	3.3	S	1009.7
Tengah	—	22.3	28.1	35.8	80.2	21.0	2.6	SSE	1009.5
Seletar	96.9	23.4	29.3	35.8	71.7	25.0	3.0	SSE	1009.7
Sembawang	55.6	22.6	28.4	34.5	80.9	27.0	2.5	S	1009.7
Automatic Meteorological Stations									
Tai Seng	25.4	24.8	29.5	34.6	73.5	23.0	1.9	S	1010.5
Jurong (West)	189.2	22.5	28.4	34.1	76.8	12.6	2.2	SE	
Clementi	69.6	22.1	28.3	33.9	79.2	11.2	1.8	SSE	
Sentosa Island	80.0	23.7	28.8	33.2	76.6	10.4	1.7	SE	1010.7
Boon Lay (East)	161.2	22.5	29.2	34.7	76.2	19.8	2.0	S	1010.5
Semakau Island	86.9	24.4	29.0	32.0	76.1	15.2	4.3	S	1010.0
Admiralty	62.0	22.7	28.7	35.1	84.4	13.1	1.8	S	
Pulau Ubin	48.8	23.1	28.2	35.2	87.4	11.6	2.1	NW	1010.5
East Coast Parkway	29.6	24.4	29.0	31.8	—	15.2	3.6	SE	1010.6
Marina Barrage	49.0	24.3	29.5	34.7	76.4	11.4	1.3	S	1010.4
Ang Mo Kio	54.6	22.9	28.9	34.9	73.3	11.5	1.6	E	1010.6
Newton	41.4	23.4	28.5	33.5	77.8	12.8	2.3	SE	
Tuas South	67.8	23.2	29.2	34.3	74.8	13.7	1.7	S	1010.5
Pasir Panjang	113.0	23.6	29.3	33.3	80.3	14.6	2.7	ESE	1010.3
Jurong Island	74.0	23.6	29.1	33.4	74.2	10.8	3.2	SE	1010.2
Choa Chu Kang (South)	164.4	22.1	28.5	35.2	—	27.4	1.4	SSE	1010.5
Khatib	62.0	22.8	28.3	34.5	—	9.8	1.3	S	1010.7

No Data

— Defective Data

July 2015

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	116.8	22.1	29.1	32.7	74.9	16.5	3.3	S	1010.5
Paya Lebar	108.6	22.4		34.2		32.0	3.6	S	1010.1
Tengah	125.4	22.0	28.4	34.5	77.6	32.0	2.8	SSE	1009.9
Seletar	97.6	22.8	29.5	35.2	69.5	43.0	3.3	SE	1010.0
Sembawang	153.5	22.0	28.6	33.9	78.9	38.0	2.8	S	1010.0
Automatic Meteorological Stations									
Tai Seng	80.8	22.7	29.6	34.4	72.5	13.8	2.0	S	1010.9
Jurong (West)	109.0	22.3	28.7	33.0	73.6	17.1	2.6	SE	
Clementi	51.4	22.5	28.5	32.8	77.6	15.3	2.0	SSE	
Sentosa Island	77.4	22.4	28.7	33.1	75.7	16.7	2.0	SE	1011.1
Boon Lay (East)	48.0	22.6	29.4	33.5	73.8	16.2	2.1	S	1010.8
Semakau Island	100.2	23.8	29.0	32.9	76.0	22.2	4.6	S	1010.4
Admiralty	176.2	22.2	28.8	34.1	82.9	16.1	2.0	S	
Pulau Ubin	78.8	22.3	28.4	34.7	86.3	14.6	2.2	WNW	1010.9
East Coast Parkway	52.2	22.7	29.0	31.5	—	17.2	4.4	SE	1011.0
Marina Barrage	—	22.9	29.4	33.9	77.0	10.4	1.5	S	1010.3
Ang Mo Kio	104.0	22.0	29.0	33.8	71.2	15.3	2.0	E	1011.0
Newton	74.6	22.3	28.6	32.7	78.5	14.9	2.7	ESE	
Tuas South	107.8	23.4	29.3	33.8	73.6	14.2	1.6	S	1010.9
Pasir Panjang	—	22.8	29.4	33.5	79.2	19.3	3.0	ESE	1010.6
Jurong Island	59.0	22.8	29.2	33.2	73.3	16.7	3.7	SE	1010.6
Choa Chu Kang (South)	82.2	22.6	28.6	33.5	—	13.9	1.5	SSE	1010.8
Khatib	147.6	22.3	28.5	33.9	—	13.3	1.5	S	1011.1

No Data

— Defective Data

August 2015

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	185.8	22.6	28.4	33.1	76.3	13.6	3.3	SSE	1010.8
Paya Lebar	166.4	22.0		34.0		27.0	3.2	S	1010.4
Tengah	138.3	22.3	27.8	34.8	79.5	30.0	2.7	SSE	1010.2
Seletar	90.2	23.1	28.7	34.5	71.5	30.0	3.2	ESE	1010.4
Sembawang	100.5	22.4	28.0	33.7	81.0	31.0	2.6	S	1010.3
Automatic Meteorological Stations									
Tai Seng	150.0	22.2	28.9	34.0	74.8	10.8	1.8	S	1011.3
Jurong (West)	196.4	21.6	28.0	32.7	76.1	19.7	2.5	SE	
Clementi	127.8	22.3	27.8	32.6	79.6	12.8	1.8	SSE	
Sentosa Island	146.2	22.6	28.1	32.7	77.6	13.0	2.4	E	1011.4
Boon Lay (East)	170.6	21.9	28.6	33.6	76.8	14.6	1.8	S	1011.1
Semakau Island	—	22.9	28.1	31.8	77.9	21.0	4.3	S	1010.6
Admiralty	83.0	22.6	28.3	33.4	84.1	17.6	2.1	S	
Pulau Ubin	181.2	22.0	27.7	33.7	88.2	12.5	2.3	WNW	1011.2
East Coast Parkway	154.4	22.6	28.5	31.5	80.2	15.8	4.1	SE	1011.3
Marina Barrage	163.0	22.5	28.8	34.2	77.7	12.5	1.4	S	1011.2
Ang Mo Kio	120.0	21.6	28.3	33.6	73.9	12.1	2.0	E	1011.3
Newton	220.2	22.0	27.9	32.4	78.1	14.4	2.6	ESE	
Tuas South	173.2	22.6	28.7	33.2	75.0	14.9	1.4	S	1011.2
Pasir Panjang	210.4	22.7	28.7	32.8	81.1	16.5	2.9	ESE	1011.0
Jurong Island	111.8	22.8	28.5	32.8	74.8	18.9	3.6	ESE	1010.9
Choa Chu Kang (South)	138.4	22.3	27.9	33.8	83.9	12.4	1.4	SSE	1011.2
Khatib	87.0	22.6	28.0	34.0	69.8	11.0	1.4	S	1011.5

No Data

— Defective Data

8.3. Sep to Dec

September 2015

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	61.6	23.1	28.7	33.2	74.9	12.0	2.9	S	1011.1
Paya Lebar	81.2	24.1		34.0		24.0	3.1	S	1010.7
Tengah	128.7	22.6	27.8	34.8	78.8	23.0	2.5	SSE	1010.5
Seletar	217.0	23.5	29.0	34.7	69.7	34.0	3.0	SE	1010.7
Sembawang	116.9	22.4	28.0	34.4	79.8	25.0	2.4	S	1010.7
Automatic Meteorological Stations									
Tai Seng	76.0	23.2	29.2	34.2	72.9	13.6	1.7	S	1011.6
Jurong (West)	161.6	22.9	28.1	33.6	75.7	14.4	2.2	SE	
Clementi	95.2	23.1	28.1	33.2	78.3	11.9	1.7	SSE	
Sentosa Island	46.4	24.3	28.4	32.6	75.4	10.6	2.3	E	1011.7
Boon Lay (East)	154.2	23.5	28.8	33.2	75.8	14.3	1.8	S	1011.4
Semakau Island	—	23.9	28.5	31.5	76.8	25.8	4.5	S	1011.0
Admiralty	157.4	22.8	28.4	33.9	83.3	14.6	1.9	S	
Pulau Ubin	49.8	23.1	27.9	33.7	87.2	13.4	2.1	NW	1011.5
East Coast Parkway	58.8	24.2	28.7	31.5	79.5	15.4	3.6	SE	1011.6
Marina Barrage	59.2	24.3	29.2	34.1	75.8	18.9	1.4	S	1011.5
Ang Mo Kio	130.4	22.5	28.6	33.7	72.1	20.5	1.8	E	1011.6
Newton	151.2	23.2	28.2	32.7	77.9	12.8	2.4	ESE	
Tuas South	224.8	22.7	28.7	33.3	75.5	15.8	1.4	SSW	1011.6
Pasir Panjang	71.8	24.0	28.9	33.1	80.4	16.0	2.7	ESE	1011.3
Jurong Island	146.6	23.1	28.7	33.1	74.6	15.7	3.2	ESE	1011.2
Choa Chu Kang (South)	80.6	22.9	28.1	33.5	82.9	11.5	1.3	SSE	1011.5
Khatib	118.6	23.2	28.2	34.4	79.1	10.3	1.3	ESE	1011.7

No Data

— Defective Data

October 2015

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	87.2	21.9	28.7	33.6	75.5	16.5	2.6	SE	1011.6
Paya Lebar	51.7	22.3		34.9		26.0	2.5	S	1011.2
Tengah	99.0	22.0	28.0	35.0	78.4	28.0	2.2	SSE	1011.0
Seletar	68.8	22.5	29.1	35.1	71.2	31.0	2.7	ENE	1011.2
Sembawang	94.9	22.3	28.2	34.2	78.7	38.0	2.1	E	1011.2
Automatic Meteorological Stations									
Tai Seng	60.0	22.7	29.3	34.3	72.2	11.4	1.6	ENE	1012.0
Jurong (West)	150.8	22.1	28.1	33.6	75.7	14.1	1.8	SE	
Clementi	127.8	21.6	28.3	34.3	77.2	16.0	1.4	NE	
Sentosa Island	56.8	22.4	28.7	33.6	73.0	18.7	2.3	E	1012.2
Boon Lay (East)	81.6	22.7	29.0	33.9	74.6	16.4	1.6	ESE	1011.9
Semakau Island	57.4	22.8	28.8	32.4	74.5	18.0	4.0	S	1011.5
Admiralty	85.6	22.2	28.6	34.2	81.9	15.5	1.9	S	
Pulau Ubin	86.2	21.6	27.8	34.7	87.7	11.4	2.1	NW	1012.0
East Coast Parkway	53.6	22.6	28.7	31.6	79.6	15.7	2.8	ESE	1012.1
Marina Barrage	73.4	23.2	29.4	34.2	74.5	10.1	1.3	ESE	1011.9
Ang Mo Kio	128.0	22.0	28.7	34.9	72.2	14.3	1.6	E	1012.1
Newton	87.6	21.8	28.5	34.2	75.3	16.4	2.2	ESE	
Tuas South	—	22.8	28.8	32.9	75.1	8.7	1.3	SSW	1012.0
Pasir Panjang	79.4	22.9	29.1	33.0	78.9	15.7	2.4	ESE	1011.7
Jurong Island	70.6	22.7	28.9	33.2	72.8	19.9	2.9	ESE	1011.7
Choa Chu Kang (South)	130.4	21.8	28.2	33.9	82.7	12.4	1.2	SSE	1011.9
Khatib	119.8	22.5	28.3	34.2	79.6	9.4	1.2	E	1012.2

No Data

— Defective Data

November 2015

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	72.6	23.7	28.0	33.6	79.1	10.5	1.8	NW	1010.0
Paya Lebar	226.4	23.1		34.7		24.0	2.3	N	1009.7
Tengah	275.9	22.8	27.0	35.0	84.5	27.0	2.0	N	1009.6
Seletar	286.3	23.7	28.0	34.4	78.6	28.0	2.1	NNW	1009.7
Sembawang	329.8	23.0	27.1	34.2	83.8	28.0	1.9	N	1009.7
Automatic Meteorological Stations									
Tai Seng	190.0	23.4	28.3	34.5	77.5	18.9	1.5	ENE	1010.5
Jurong (West)	248.8	22.9	26.9	34.3	85.4	14.2	1.6	N	
Clementi	320.2	22.7	27.3	33.8	82.4	9.8	1.3	NW	
Sentosa Island	—	23.4	28.1	34.1	75.3	11.5	1.9	N	1010.6
Boon Lay (East)	268.0	23.1	27.8	34.3	82.9	17.9	1.6	N	1010.5
Semakau Island	140.0	23.9	28.2	31.9	77.5	18.3	5.1	N	1010.0
Admiralty	351.2	23.1	27.3	34.2	89.9	13.5	1.8	N	
Pulau Ubin	74.6	23.3	27.1	33.9	90.3	10.6	2.3	NW	1010.5
East Coast Parkway	61.0	24.1	28.2	31.8	81.0	10.0	2.0	N	1010.6
Marina Barrage	170.6	23.6	28.7	34.4	77.3	21.1	1.6	NNW	1010.4
Ang Mo Kio	303.2	23.2	27.5	34.5	80.3	12.3	1.2	W	1010.6
Newton	218.4	22.8	27.5	34.3	81.0	10.6	1.4	N	
Tuas South	243.2	23.6	27.8	33.5	79.9	15.8	1.6	NNE	1010.6
Pasir Panjang	231.2	23.4	28.1	33.8	84.7	16.0	2.3	NE	1010.2
Jurong Island	297.8	23.3	28.1	33.6	77.3	15.8	1.6	NNW	1010.2
Choa Chu Kang (South)	240.0	23.0	27.0	34.2	89.6	36.6	1.2	N	1010.5
Khatib	306.4	23.3	27.3	34.2	—	9.2	1.0	NNW	1010.8

No Data

— Defective Data

December 2015

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	302.0	22.5	27.7	33.1	81.1	12.1	2.2	NE	1011.5
Paya Lebar	281.8	23.6		34.8		30.0	3.3	NE	1011.1
Tengah	264.5	22.8	27.2	34.6	83.8	28.0	2.7	N	1011.0
Seletar	280.0	23.5	27.9	35.1	78.9	29.0	3.0	N	1011.1
Sembawang	285.0	22.9	27.3	34.0	83.5	26.0	2.5	NE	1011.1
Automatic Meteorological Stations									
Tai Seng	306.2	23.5	28.0	33.8	79.1	18.1	2.1	ENE	1012.0
Jurong (West)	424.4	22.6	27.0	33.5	85.3	14.5	1.9	N	
Clementi	336.2	23.0	27.3	33.9	82.9	11.8	1.5	NE	
Sentosa Island	391.8	22.9	28.0	33.7	74.5	11.2	2.0	N	1012.0
Boon Lay (East)	256.8	23.5	27.8	34.3	82.6	19.0	1.8	N	1011.9
Semakau Island	220.0	23.5	27.8	31.4	78.3	22.2	4.8	N	1011.4
Admiralty	270.4	23.3	27.3	33.7	89.5	15.7	2.4	N	
Pulau Ubin	262.4	22.5	27.0	34.0	91.2	12.6	2.5	NW	1011.9
East Coast Parkway	220.6	22.5	28.0	32.5	82.1	16.3	2.1	N	1012.0
Marina Barrage	238.6	23.4	28.3	34.7	78.8	25.5	2.2	NNW	1011.8
Ang Mo Kio	311.2	23.4	27.4	33.8	81.4	16.1	1.5	W	1012.1
Newton	360.4	22.4	27.4	33.1	76.4	13.3	1.6	N	
Tuas South	317.8	23.6	27.7	33.9	80.1	19.4	1.5	NNE	1012.0
Pasir Panjang	301.8	24.0	28.1	33.1	84.5	16.1	2.8	NE	1011.6
Jurong Island	494.0	22.8	27.9	33.4	78.3	12.6	1.6	NNW	1011.7
Choa Chu Kang (South)	267.0	22.8	27.1	33.7	89.4	31.7	1.6	NNE	1011.9
Khatib	267.8	22.9	27.5	34.5	78.6	9.6	1.3	NE	1012.2

▪ No Data

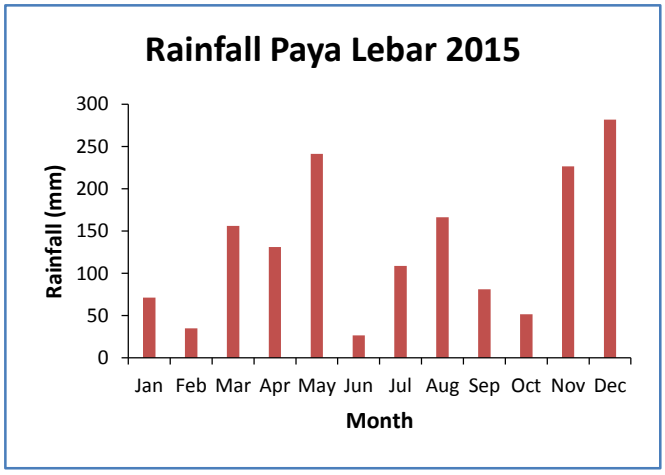
— Defective Data

9. Weather Statistics for Manned Meteorological Station

9.1. Monthly Observation

S06 Paya Lebar 2015

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Min Temperature (°C)	23.6	23.3	22.2	24.0	23.3	24.4	22.4	22.0	24.1	22.3	23.1	23.6
Average Daily Min Temperature (°C)	24.7	24.2	25.4	25.9	26.4	27.0	26.5	25.9	26.7	26.2	25.4	25.2
Average Temperature (°C)												
Average Daily Max Temperature (°C)	31.5	31.8	32.9	33.6	32.5	32.4	32.3	31.9	32.3	33.2	32.8	32.5
Max Temperature	33.8	34.5	34.5	35.0	34.7	35.0	34.2	34.0	34.0	34.9	34.7	34.8
Average Dew Point Temperature (°C)												
Min Relative Humidity (%)												
Average Relative Humidity (%)												
Average Wind Speed (m/s)	5.0	5.2	3.9	2.9	2.8	3.3	3.6	3.2	3.1	2.5	2.3	3.3
Prevailing Wind Direction	NNE	NE	NE	NE	S	S	S	S	S	S	N	NE
Maximum Gust (m/s)	25.0	27.0	28.0	26.0	27.0	24.0	32.0	27.0	24.0	26.0	24.0	30.0
Total Rainfall (mm)	71.3	34.7	156.1	131.0	241.2	26.4	108.6	166.4	81.2	51.7	226.4	281.8
Highest Daily Rainfall (mm)	35.1	19.4	37.2	48.3	101.9	10.7	42.4	52.8	50.2	23.1	40.0	50.4

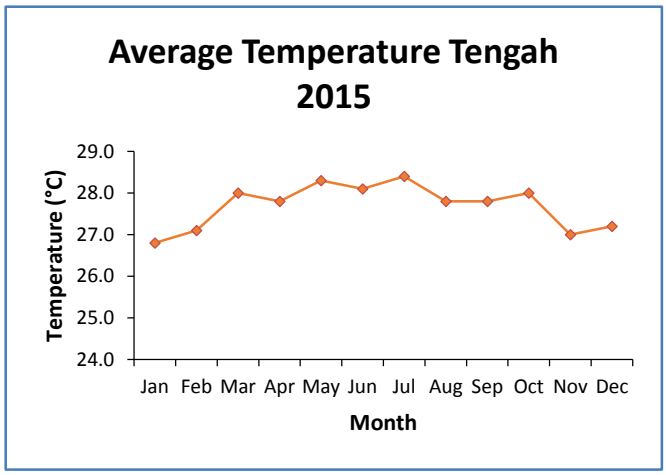


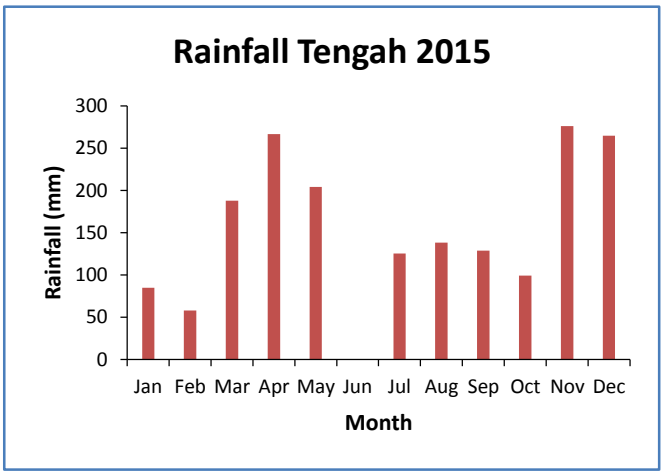
▪ No Data

— Defective Data

S23 Tengah 2015

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Min Temperature (°C)	21.9	21.9	22.6	23.2	23.1	22.3	22.0	22.3	22.6	22.0	22.8	22.8
Average Daily Min Temperature (°C)	22.9	22.9	23.8	24.0	24.5	24.4	24.5	24.1	24.3	23.9	23.9	23.9
Average Temperature (°C)	26.8	27.1	28.0	27.8	28.3	28.1	28.4	27.8	27.8	28.0	27.0	27.2
Average Daily Max Temperature (°C)	32.0	32.6	33.5	33.8	32.7	32.8	33.1	32.5	32.7	33.4	32.8	32.5
Max Temperature	34.2	35.7	35.3	35.2	34.9	35.8	34.5	34.8	34.8	35.0	35.0	34.6
Average Dew Point Temperature (°C)	22.6	22.5	23.5	24.3	24.9	24.1	23.9	23.7	23.5	23.5	23.9	24.1
Min Relative Humidity (%)												
Average Relative Humidity (%)	79.0	77.0	78.0	82.4	83.1	80.2	77.6	79.5	78.8	78.4	84.5	83.8
Average Wind Speed (m/s)	3.8	3.9	2.9	2.4	2.3	2.6	2.8	2.7	2.5	2.2	2.0	2.7
Prevailing Wind Direction	N	NNE	NE	N	N	SSE	SSE	SSE	SSE	SSE	N	N
Maximum Gust (m/s)	24.0	26.0	25.0	31.0	24.0	21.0	32.0	30.0	23.0	28.0	27.0	28.0
Total Rainfall (mm)	84.8	57.9	187.9	266.5	203.9	—	125.4	138.3	128.7	99.0	275.9	264.5
Highest Daily Rainfall (mm)	61.0	28.6	47.5	46.5	105.6	58.8	41.5	32.5	78.5	18.0	32.9	47.1



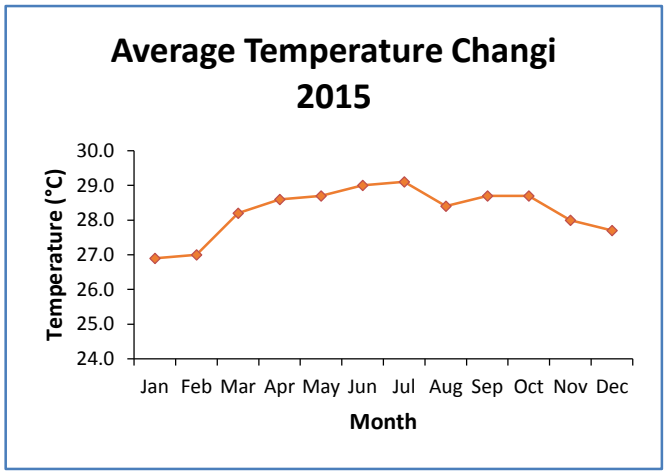


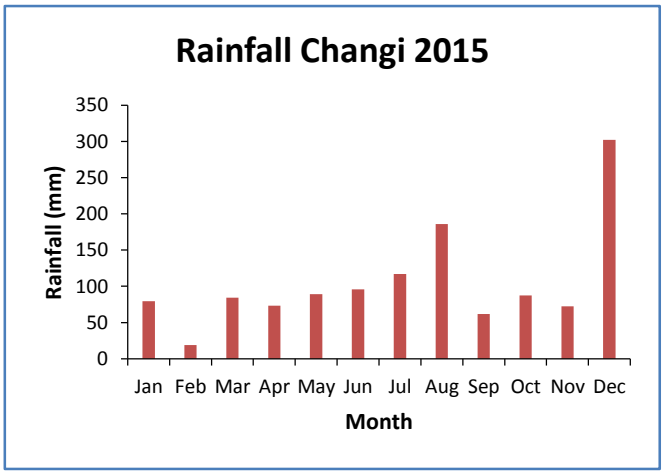
▪ No Data

— Defective Data

S24 Changi 2015

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Min Temperature (°C)	23.3	23.1	23.4	24.0	24.0	24.2	22.1	22.6	23.1	21.9	23.7	22.5
Average Daily Min Temperature (°C)	24.6	24.5	25.5	25.9	26.4	26.6	26.7	26.0	26.5	26.1	25.5	25.0
Average Temperature (°C)	26.9	27.0	28.2	28.6	28.7	29.0	29.1	28.4	28.7	28.7	28.0	27.7
Average Daily Max Temperature (°C)	30.7	31.3	32.5	33.2	32.2	32.0	31.9	31.2	31.7	32.2	32.1	31.5
Max Temperature	32.4	33.6	34.4	34.4	34.2	34.3	32.7	33.1	33.2	33.6	33.6	33.1
Average Dew Point Temperature (°C)	22.7	22.5	23.5	24.2	24.8	24.4	24.3	24.0	23.9	23.9	24.0	24.2
Min Relative Humidity (%)	49.0	49.0	47.0	48.0	46.0	42.0	51.0	40.0	40.0	35.0	47.0	49.0
Average Relative Humidity (%)	77.6	75.4	75.8	77.1	78.9	75.8	74.9	76.3	74.9	75.5	79.1	81.1
Average Wind Speed (m/s)	3.1	3.5	3.0	2.3	2.4	2.7	3.3	3.3	2.9	2.6	1.8	2.2
Prevailing Wind Direction	NE	NE	NE	NE	S	S	S	SSE	S	SE	NW	NE
Maximum Gust (m/s)	11.8	12.0	12.5	10.3	14.3	12.3	16.5	13.6	12.0	16.5	10.5	12.1
Total Rainfall (mm)	79.6	18.8	84.4	73.2	89.0	95.8	116.8	185.8	61.6	87.2	72.6	302.0
Highest Daily Rainfall (mm)	33.6	10.8	46.0	18.8	22.2	28.4	45.8	63.2	18.4	28.6	25.8	40.4



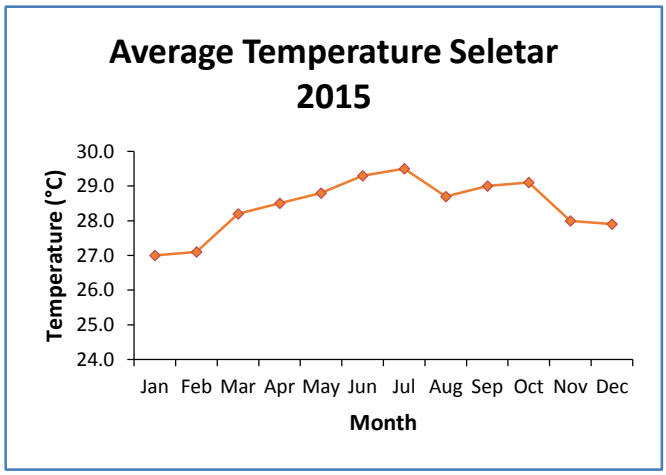


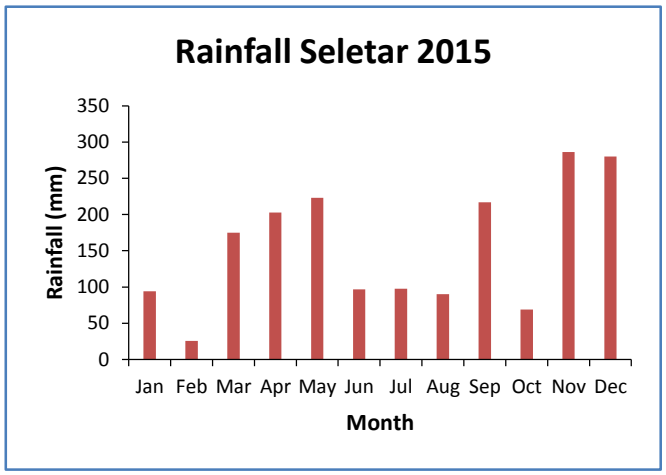
▪ No Data

— Defective Data

S25 Seletar 2015

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Min Temperature (°C)	23.9	23.0	22.6	23.7	23.7	23.4	22.8	23.1	23.5	22.5	23.7	23.5
Average Daily Min Temperature (°C)	24.7	24.3	25.4	25.5	26.1	26.7	26.6	26.1	26.3	26.3	25.4	25.4
Average Temperature (°C)	27.0	27.1	28.2	28.5	28.8	29.3	29.5	28.7	29.0	29.1	28.0	27.9
Average Daily Max Temperature (°C)	31.1	31.7	33.1	33.7	33.3	33.7	33.4	32.7	33.0	33.3	32.8	32.1
Max Temperature	33.4	34.9	35.4	36.4	35.2	35.8	35.2	34.5	34.7	35.1	34.4	35.1
Average Dew Point Temperature (°C)	22.1	21.6	22.9	23.6	24.0	23.4	23.1	22.8	22.6	23.0	23.7	23.7
Min Relative Humidity (%)												
Average Relative Humidity (%)	75.3	73.3	74.0	75.8	76.4	71.7	69.5	71.5	69.7	71.2	78.6	78.9
Average Wind Speed (m/s)	4.4	5.1	3.8	2.8	2.5	3.0	3.3	3.2	3.0	2.7	2.1	3.0
Prevailing Wind Direction	N	N	NNE	N	ESE	SSE	SE	ESE	SE	ENE	NNW	N
Maximum Gust (m/s)	38.0	27.0	32.0	29.0	24.0	25.0	43.0	30.0	34.0	31.0	28.0	29.0
Total Rainfall (mm)	94.0	25.5	174.7	202.6	223.2	96.9	97.6	90.2	217.0	68.8	286.3	280.0
Highest Daily Rainfall (mm)	40.6	14.1	66.0	52.1	65.0	59.0	37.7	23.7	80.0	18.6	46.3	74.0



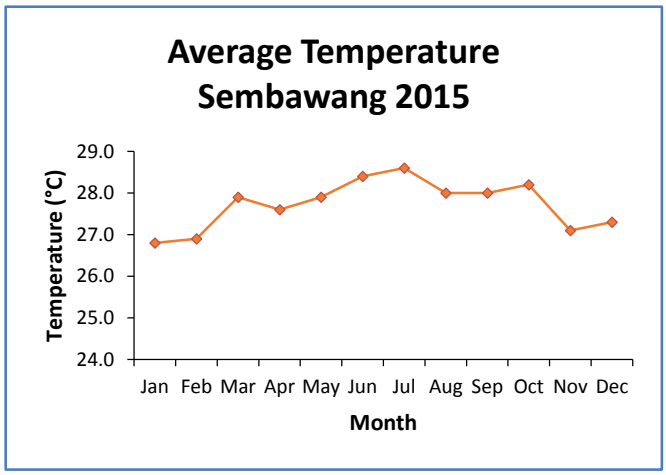


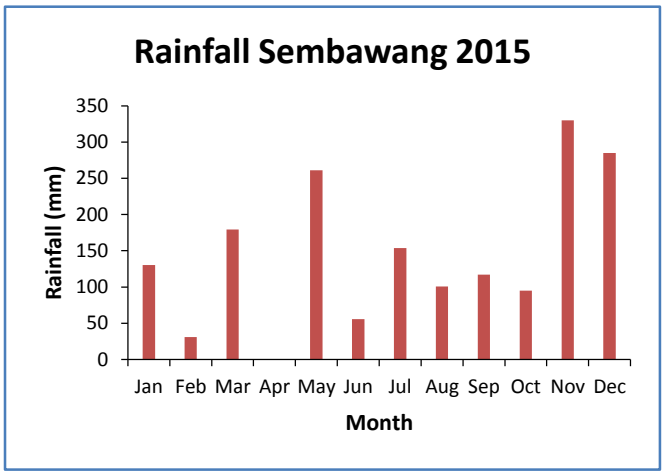
▪ No Data

— Defective Data

S80 Sembawang 2015

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Min Temperature (°C)	22.5	21.7	22.1	22.8	23.1	22.6	22.0	22.4	22.4	22.3	23.0	22.9
Average Daily Min Temperature (°C)	23.7	23.5	24.1	23.9	24.3	24.5	24.7	24.2	24.0	23.9	23.8	24.0
Average Temperature (°C)	26.8	26.9	27.9	27.6	27.9	28.4	28.6	28.0	28.0	28.2	27.1	27.3
Average Daily Max Temperature (°C)	31.2	31.8	33.0	33.1	32.3	32.4	32.6	32.1	32.4	32.9	32.3	31.8
Max Temperature	32.8	34.2	34.5	34.4	34.1	34.5	33.9	33.7	34.4	34.2	34.2	34.0
Average Dew Point Temperature (°C)	22.6	22.3	23.7	24.4	24.9	24.6	24.4	24.2	24.0	23.9	24.0	24.2
Min Relative Humidity (%)												
Average Relative Humidity (%)	78.7	77.1	79.0	83.8	83.6	80.9	78.9	81.0	79.8	78.7	83.8	83.5
Average Wind Speed (m/s)	3.5	3.9	3.1	2.2	1.8	2.5	2.8	2.6	2.4	2.1	1.9	2.5
Prevailing Wind Direction	NNE	NE	NE	NE	S	S	S	S	S	E	N	NE
Maximum Gust (m/s)	26.0	29.0	35.0	25.0	29.0	27.0	38.0	31.0	25.0	38.0	28.0	26.0
Total Rainfall (mm)	130.3	30.8	179.3	—	261.0	55.6	153.5	100.5	116.9	94.9	329.8	285.0
Highest Daily Rainfall (mm)	45.9	14.0	76.5	58.9	96.2	14.4	32.7	26.4	38.0	25.4	58.2	68.7





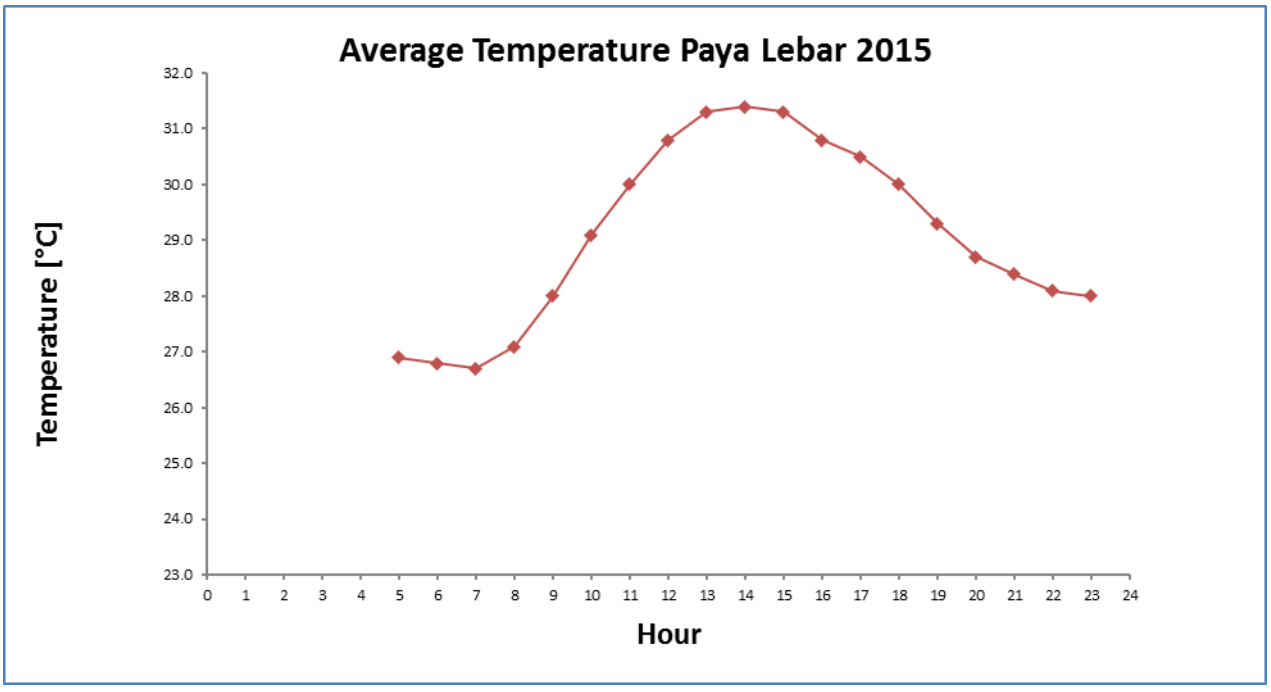
No Data

— Defective Data

9.2. Hourly Observation

S06 Paya Lebar 2015

Hours	1	2	3	4	5	6	7	8	9	10	11	12
Min Dry Bulb Temperature (°C)					23.4	23.0	23.4	22.5	23.5	23.9	24.4	24.6
Max Dry Bulb Temperature (°C)					29.2	29.0	29.1	29.4	30.3	31.3	33.0	33.4
Average Dry Bulb Temperature (°C)					26.9	26.8	26.7	27.1	28.0	29.1	30.0	30.8
Average Dew Point Temperature (°C)					24.1	24.1	24.1	24.2	24.2	24.1	23.9	23.7
Min Relative Humidity (%)					66.0	66.0	66.0	71.0	67.0	62.0	56.0	51.0
Average Relative Humidity (%)					84.9	85.3	85.7	84.7	80.0	74.8	70.0	66.6
Average Wind Speed (m/s)					2.1	2.1	2.1	2.2	3.2	3.8	4.0	4.0
Max Gust (m/s)					13.4	10.3	13.9	16.5	10.8	11.8	13.9	13.4
Rainfall (mm)	14.8	29.5	67.5	24.7	27.0	39.1	39.5	85.6	43.4	52.7	80.4	214.2

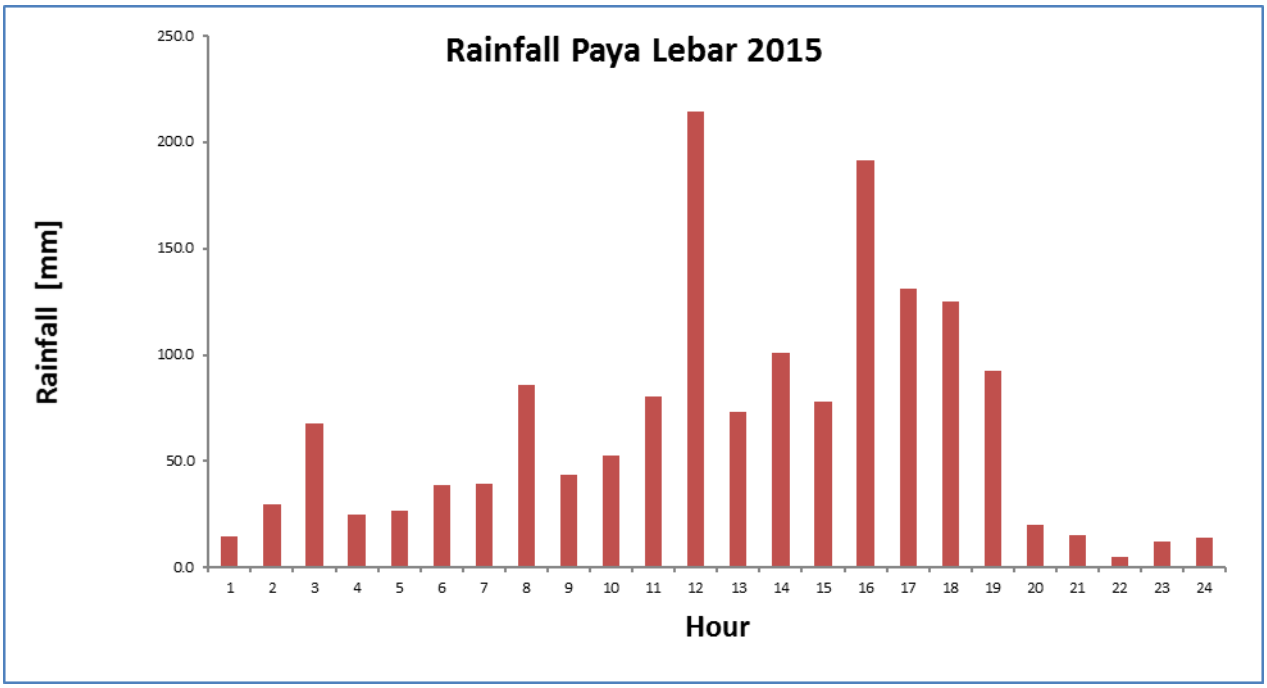


No Data

— Defective Data

S06 Paya Lebar 2015

Hours	13	14	15	16	17	18	19	20	21	22	23	24
Min Dry Bulb Temperature (°C)	24.7	25.0	25.2	24.5	25.0	22.8	23.9	24.6	25.0	25.2	25.0	
Max Dry Bulb Temperature (°C)	34.5	34.9	35.0	34.8	33.8	33.0	31.8	31.1	30.8	30.2	30.0	
Average Dry Bulb Temperature (°C)	31.3	31.4	31.3	30.8	30.5	30.0	29.3	28.7	28.4	28.1	28.0	
Average Dew Point Temperature (°C)	23.5	23.4	23.5	23.5	23.5	23.6	23.7	23.9	24.1	24.2	24.2	
Min Relative Humidity (%)	44.0	41.0	40.0	38.0	45.0	47.0	54.0	59.0	59.0	65.0	68.0	
Average Relative Humidity (%)	64.1	63.5	64.4	66.2	67.1	69.2	72.6	75.5	77.8	79.3	80.3	
Average Wind Speed (m/s)	4.2	4.4	4.4	4.4	4.2	4.0	3.6	3.3	3.1	2.8	2.6	
Max Gust (m/s)	12.9	15.4	13.9	13.9	12.9	14.4	13.4	11.8	10.8	9.8	8.2	
Rainfall (mm)	73.4	100.8	78.2	191.3	131.2	124.9	92.3	20.0	15.4	5.0	12.1	13.8

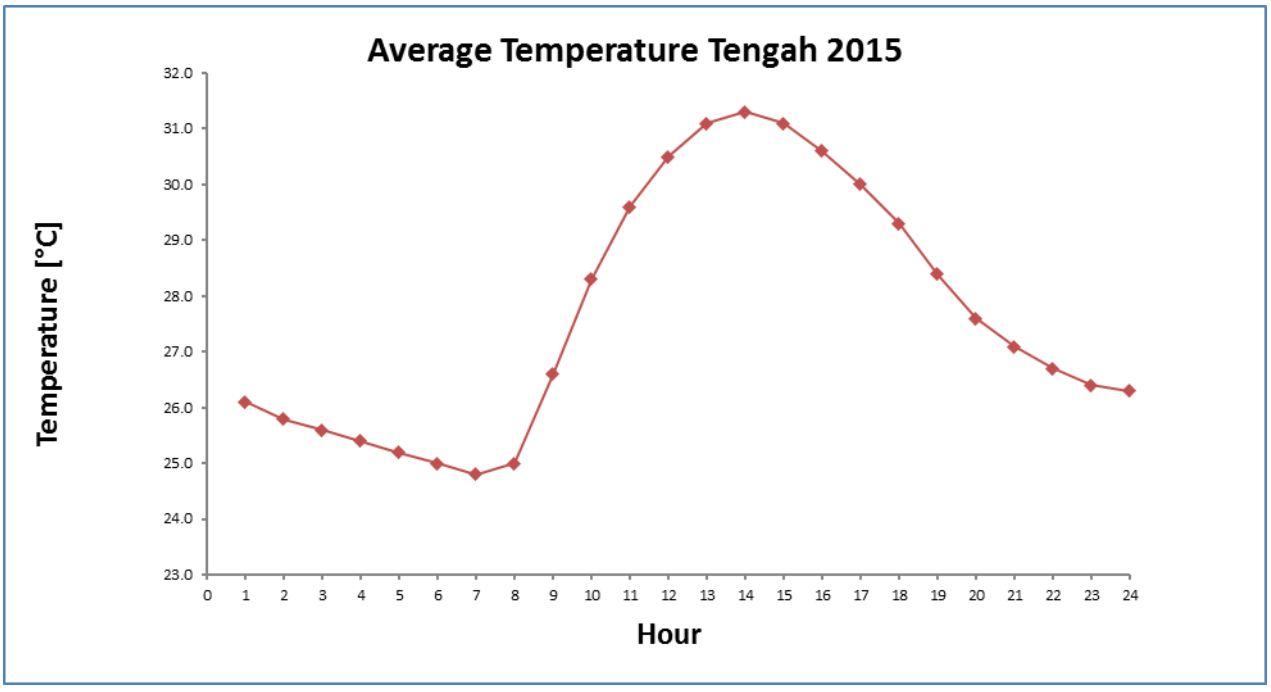


No Data

— Defective Data

S23 Tengah 2015

Hours	1	2	3	4	5	6	7	8	9	10	11	12
Min Dry Bulb Temperature (°C)	23.3	23.1	22.9	22.7	22.3	22.1	22.3	22.3	22.7	23.2	23.5	24.2
Max Dry Bulb Temperature (°C)	28.9	28.6	28.4	28.2	28.1	28.0	27.9	27.8	29.6	31.8	33.0	33.7
Average Dry Bulb Temperature (°C)	26.1	25.8	25.6	25.4	25.2	25.0	24.8	25.0	26.6	28.3	29.6	30.5
Average Dew Point Temperature (°C)	23.9	23.8	23.7	23.6	23.4	23.4	23.3	23.6	24.3	24.2	24.0	23.9
Min Relative Humidity (%)	75.0	77.0	79.0	80.0	80.0	80.0	77.0	79.0	72.0	66.0	58.0	53.0
Average Relative Humidity (%)	87.7	88.6	89.5	90.2	90.3	91.1	91.5	92.2	87.3	78.8	72.6	68.5
Average Wind Speed (m/s)					1.5	1.6	1.5	1.5	2.1	3.0	3.3	3.3
Max Gust (m/s)					8.2	13.9	13.4	14.9	9.3	11.8	13.4	11.3
Rainfall (mm)	5.2	73.2	111.9	23.8	15.4	51.5	52.6	43.7	48.4	54.7	125.7	95.7

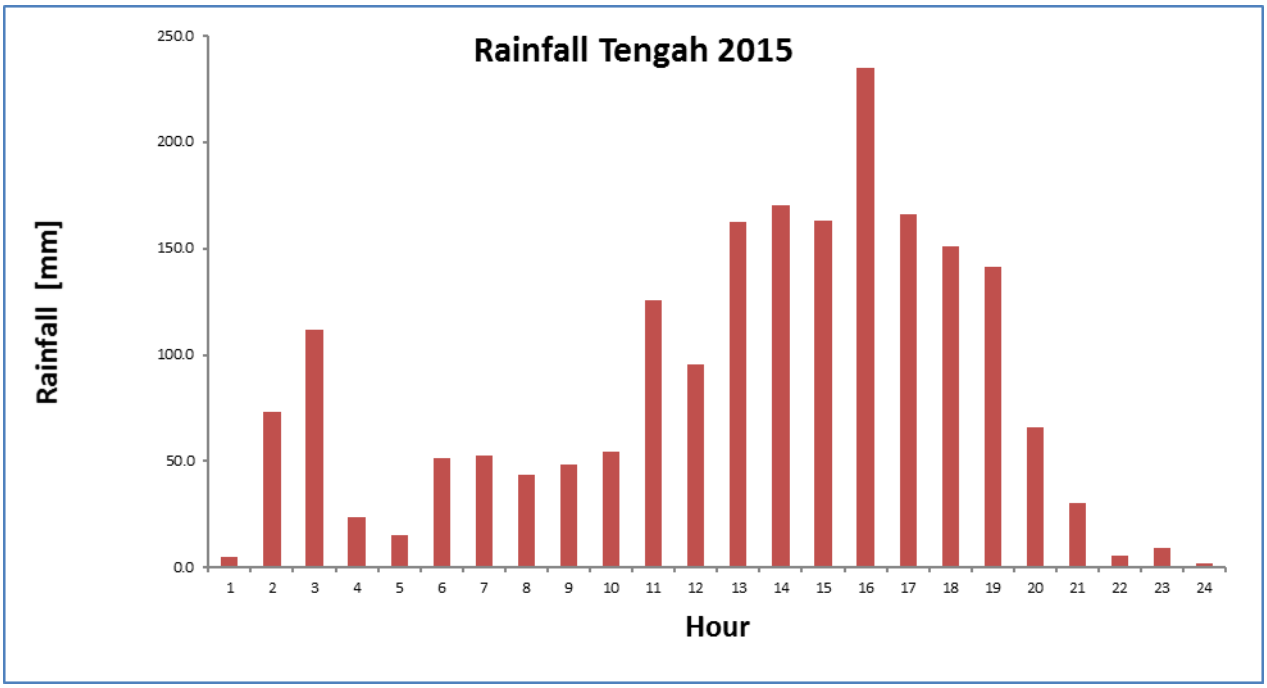


No Data

— Defective Data

S23 Tengah 2015

Hours	13	14	15	16	17	18	19	20	21	22	23	24
Min Dry Bulb Temperature (°C)	23.1	23.4	23.4	24.0	24.0	23.4	24.0	24.1	24.0	23.6	23.5	23.5
Max Dry Bulb Temperature (°C)	34.4	35.0	35.1	35.2	34.3	33.4	32.4	31.3	30.5	30.1	29.2	28.8
Average Dry Bulb Temperature (°C)	31.1	31.3	31.1	30.6	30.0	29.3	28.4	27.6	27.1	26.7	26.4	26.3
Average Dew Point Temperature (°C)	23.8	23.7	23.6	23.7	23.6	23.6	23.6	23.5	23.5	23.6	23.7	23.8
Min Relative Humidity (%)	46.0	46.0	48.0	46.0	47.0	49.0	56.0	60.0	63.0	67.0	72.0	73.0
Average Relative Humidity (%)	66.1	65.2	65.7	67.8	69.7	72.5	75.8	79.0	81.5	83.5	85.1	86.5
Average Wind Speed (m/s)	3.4	3.5	3.6	3.5	3.3	3.1	2.6	2.4	2.2	2.0	1.9	
Max Gust (m/s)	13.4	14.4	13.9	15.9	14.4	13.4	11.8	11.3	9.8	9.8	9.3	
Rainfall (mm)	162.5	170.3	162.8	235.1	165.8	151.2	141.2	65.7	30.2	5.6	9.0	1.8

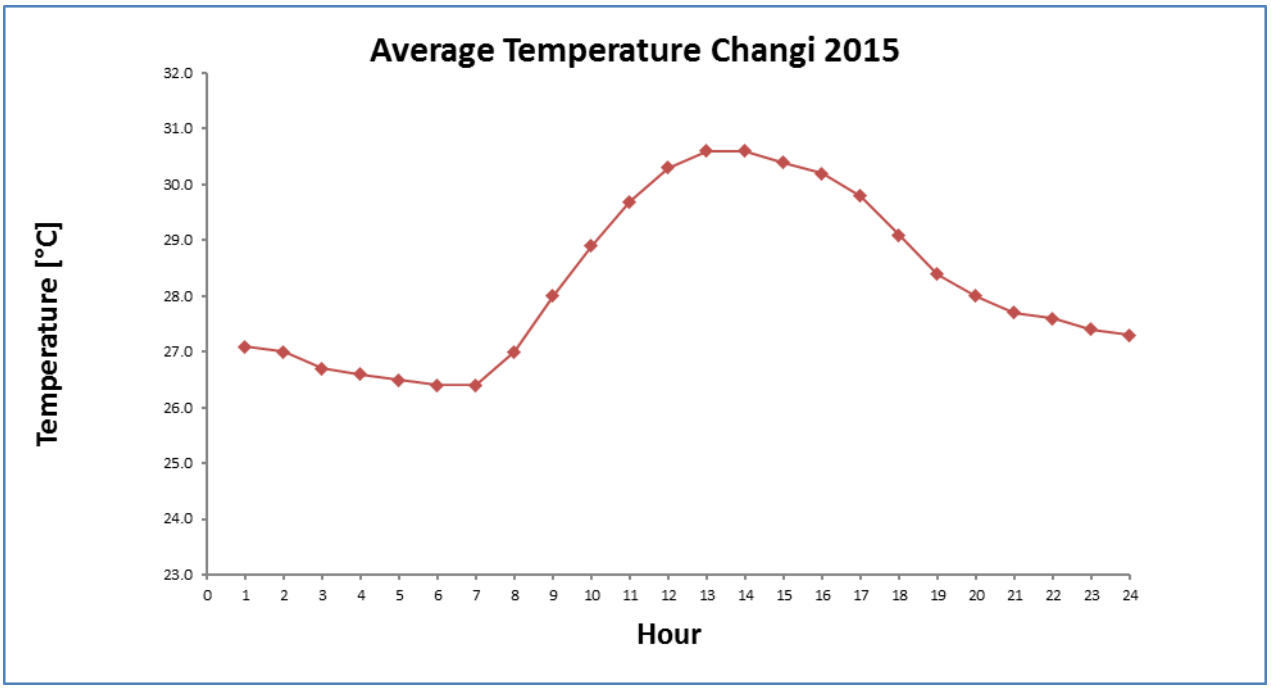


No Data

— Defective Data

S24 Changi 2015

Hours	1	2	3	4	5	6	7	8	9	10	11	12
Min Dry Bulb Temperature (°C)	23.9	23.8	23.7	22.7	22.9	21.9	22.9	22.2	22.1	23.0	23.8	23.1
Max Dry Bulb Temperature (°C)	29.4	29.4	29.2	29.0	28.8	28.9	29.0	29.6	30.6	31.6	32.3	33.3
Average Dry Bulb Temperature (°C)	27.1	27.0	26.7	26.6	26.5	26.4	26.4	27.0	28.0	28.9	29.7	30.3
Average Dew Point Temperature (°C)	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.3	24.3	24.2	23.9	23.7
Min Relative Humidity (%)	72.0	70.0	69.0	69.0	73.0	73.0	72.0	73.0	67.0	62.0	53.0	47.0
Average Relative Humidity (%)	82.9	83.7	84.6	85.6	86.1	86.5	86.7	84.8	79.4	74.8	70.2	66.9
Average Wind Speed (m/s)	2.2	2.1	1.9	1.8	1.8	1.8	1.8	2.0	2.6	3.1	3.3	3.4
Max Gust (m/s)	8.6	10.1	13.2	11.5	16.5	13.9	9.5	16.5	9.3	11.8	11.2	12.5
Rainfall (mm)	2.2	65.0	94.6	43.6	47.4	30.6	49.2	37.8	53.2	61.2	23.0	84.2

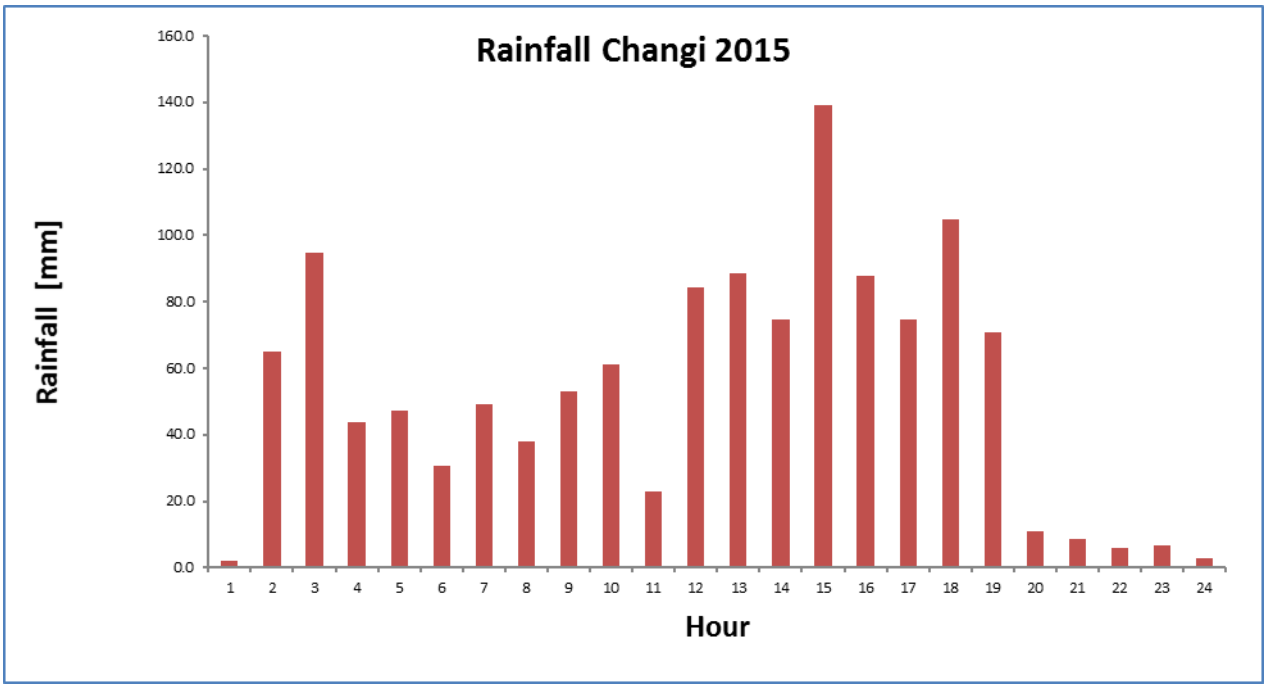


No Data

Defective Data

S24 Changi 2015

Hours	13	14	15	16	17	18	19	20	21	22	23	24
Min Dry Bulb Temperature (°C)	22.8	23.5	23.3	23.4	23.2	22.5	22.6	24.1	24.2	24.1	24.0	23.9
Max Dry Bulb Temperature (°C)	34.4	34.3	34.4	34.2	33.6	32.4	32.0	30.8	30.3	30.0	29.7	29.5
Average Dry Bulb Temperature (°C)	30.6	30.6	30.4	30.2	29.8	29.1	28.4	28.0	27.7	27.6	27.4	27.3
Average Dew Point Temperature (°C)	23.4	23.4	23.4	23.3	23.4	23.4	23.6	23.8	23.9	24.0	24.1	24.1
Min Relative Humidity (%)	42.0	37.0	36.0	40.0	44.0	47.0	57.0	59.0	60.0	67.0	69.0	70.0
Average Relative Humidity (%)	64.8	64.7	65.5	66.0	67.5	70.3	74.4	77.1	79.0	80.3	81.3	82.1
Average Wind Speed (m/s)	3.6	3.7	4.0	4.0	3.9	3.6	3.3	2.9	2.6	2.5	2.4	2.3
Max Gust (m/s)	14.0	14.7	15.3	13.6	13.3	12.5	10.9	11.5	10.5	9.4	9.1	9.6
Rainfall (mm)	88.4	74.8	139.0	87.6	74.6	104.8	70.8	10.8	8.6	5.8	6.8	2.8

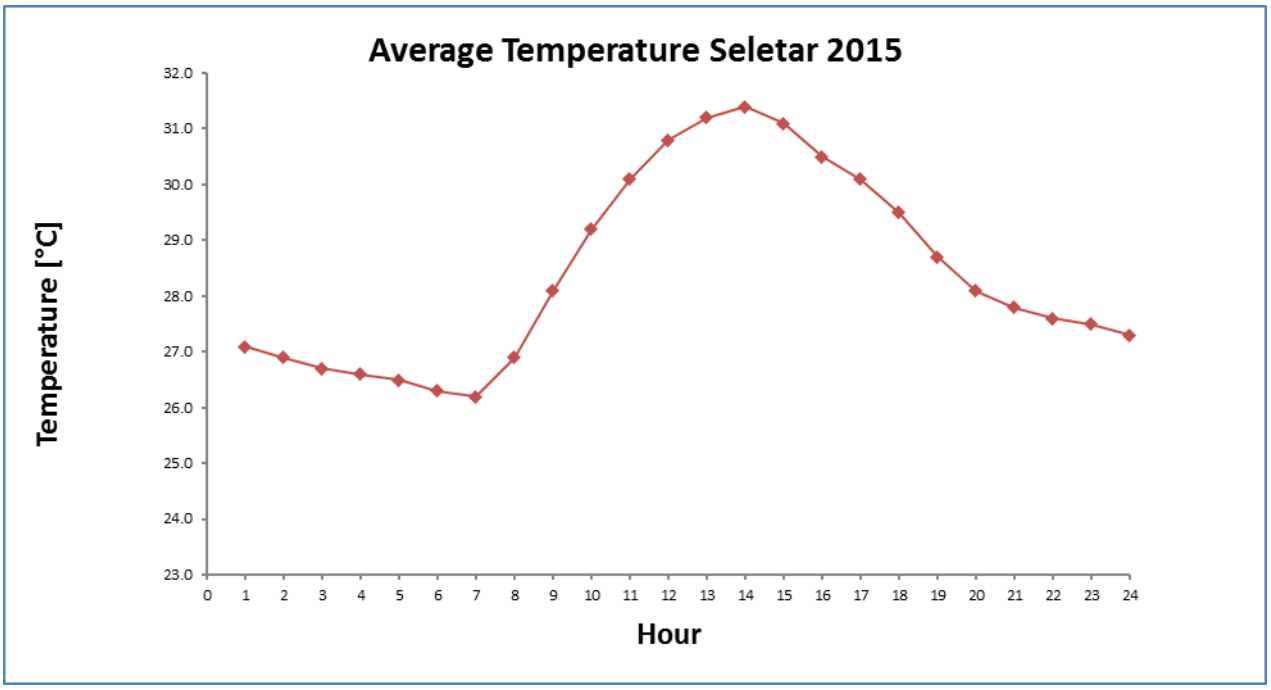


No Data

— Defective Data

S25 Seletar 2015

Hours	1	2	3	4	5	6	7	8	9	10	11	12
Min Dry Bulb Temperature (°C)	24.4	23.1	23.7	23.4	23.5	22.6	22.8	22.8	23.3	23.8	24.5	24.5
Max Dry Bulb Temperature (°C)	29.3	29.1	29.0	29.0	28.8	28.6	28.5	29.4	30.8	32.1	33.1	34.1
Average Dry Bulb Temperature (°C)	27.1	26.9	26.7	26.6	26.5	26.3	26.2	26.9	28.1	29.2	30.1	30.8
Average Dew Point Temperature (°C)	23.6	23.6	23.5	23.5	23.5	23.5	23.5	23.7	23.6	23.3	22.8	22.5
Min Relative Humidity (%)	67.0	68.0	65.0	67.0	69.0	71.0	70.0	68.0	65.0	56.0	50.0	46.0
Average Relative Humidity (%)	81.2	82.2	82.9	83.7	84.2	84.6	85.1	83.0	77.0	70.8	65.5	61.9
Average Wind Speed (m/s)					1.9	1.9	1.9	1.9	2.4	3.3	3.6	3.6
Max Gust (m/s)					12.9	14.9	10.3	13.4	10.3	12.9	12.9	13.9
Rainfall (mm)	13.4	28.0	91.9	61.3	26.9	33.3	56.1	36.3	10.3	10.9	91.7	117.3

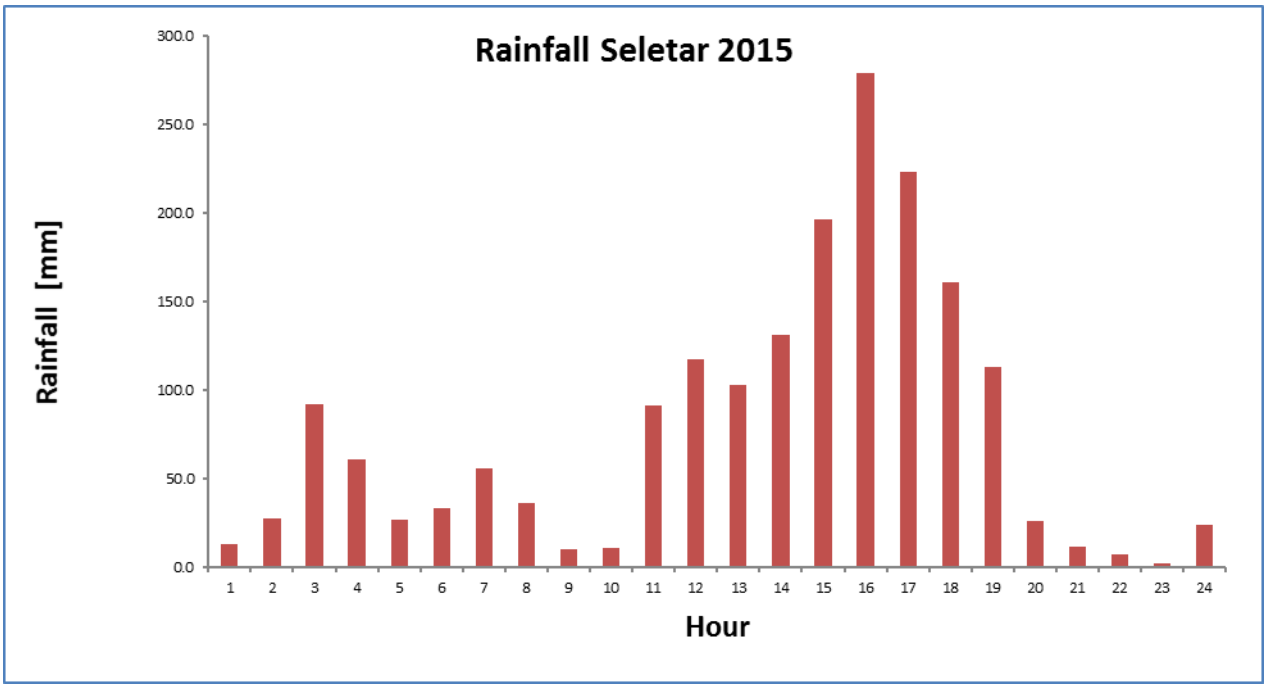


▪ No Data

— Defective Data

S25 Seletar 2015

Hours	13	14	15	16	17	18	19	20	21	22	23	24
Min Dry Bulb Temperature (°C)	23.5	23.9	24.4	24.2	24.2	23.0	23.5	24.2	24.1	24.3	24.6	24.4
Max Dry Bulb Temperature (°C)	34.8	35.8	36.0	35.0	34.3	33.0	32.1	30.9	30.3	29.8	29.7	29.5
Average Dry Bulb Temperature (°C)	31.2	31.4	31.1	30.5	30.1	29.5	28.7	28.1	27.8	27.6	27.5	27.3
Average Dew Point Temperature (°C)	22.2	22.1	22.0	22.2	22.3	22.5	22.7	22.9	23.2	23.4	23.4	23.5
Min Relative Humidity (%)	41.0	35.0	36.0	36.0	33.0	34.0	46.0	53.0	57.0	60.0	63.0	65.0
Average Relative Humidity (%)	59.8	58.8	59.7	62.5	64.1	67.1	70.7	74.0	76.4	78.0	78.9	80.3
Average Wind Speed (m/s)	3.8	4.0	4.1	4.3	4.2	4.0	3.7	3.3	3.1	2.8	2.5	
Max Gust (m/s)	13.4	13.4	13.4	13.9	16.5	17.5	13.4	12.3	11.3	11.3	9.3	
Rainfall (mm)	103.1	131.3	196.3	278.8	223.0	161.1	113.0	26.6	12.2	7.7	2.5	23.8

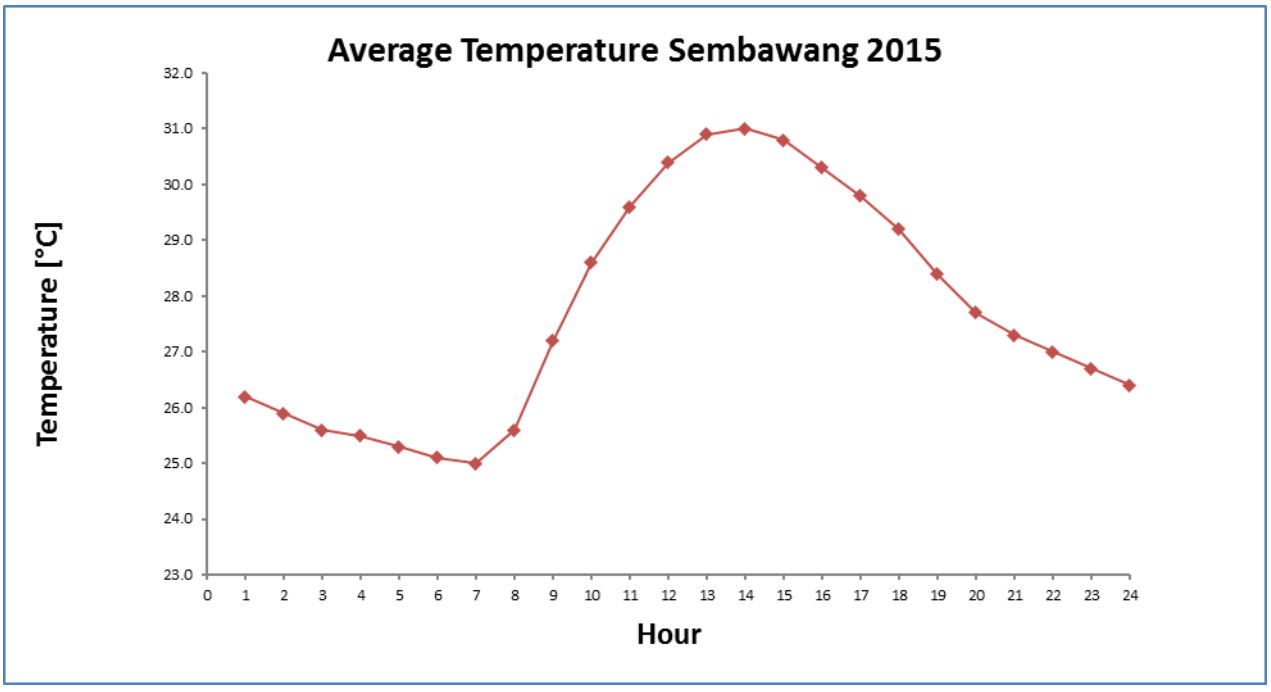


No Data

— Defective Data

S80 Sembawang 2015

Hours	1	2	3	4	5	6	7	8	9	10	11	12
Min Dry Bulb Temperature (°C)	23.7	22.5	22.8	23.1	22.8	22.5	22.6	23.0	23.3	24.0	24.3	24.5
Max Dry Bulb Temperature (°C)	29.1	28.8	28.5	28.4	28.3	28.2	28.1	28.6	29.9	31.3	32.3	32.8
Average Dry Bulb Temperature (°C)	26.2	25.9	25.6	25.5	25.3	25.1	25.0	25.6	27.2	28.6	29.6	30.4
Average Dew Point Temperature (°C)	23.9	23.8	23.6	23.5	23.6	23.5	23.5	24.2	24.7	24.7	24.4	24.2
Min Relative Humidity (%)	71.0	71.0	71.0	71.0	71.0	71.0	79.0	79.0	71.0	64.0	59.0	51.0
Average Relative Humidity (%)	87.5	88.1	88.4	88.7	90.4	90.8	91.6	92.1	86.5	79.8	74.1	70.3
Average Wind Speed (m/s)					1.4	1.6	1.5	1.4	2.1	2.8	3.0	3.1
Max Gust (m/s)					9.3	19.5	11.8	18.5	10.3	10.8	13.4	13.4
Rainfall (mm)	14.6	47.4	88.7	59.5	21.6	44.4	42.4	28.0	14.0	23.8	50.5	141.3

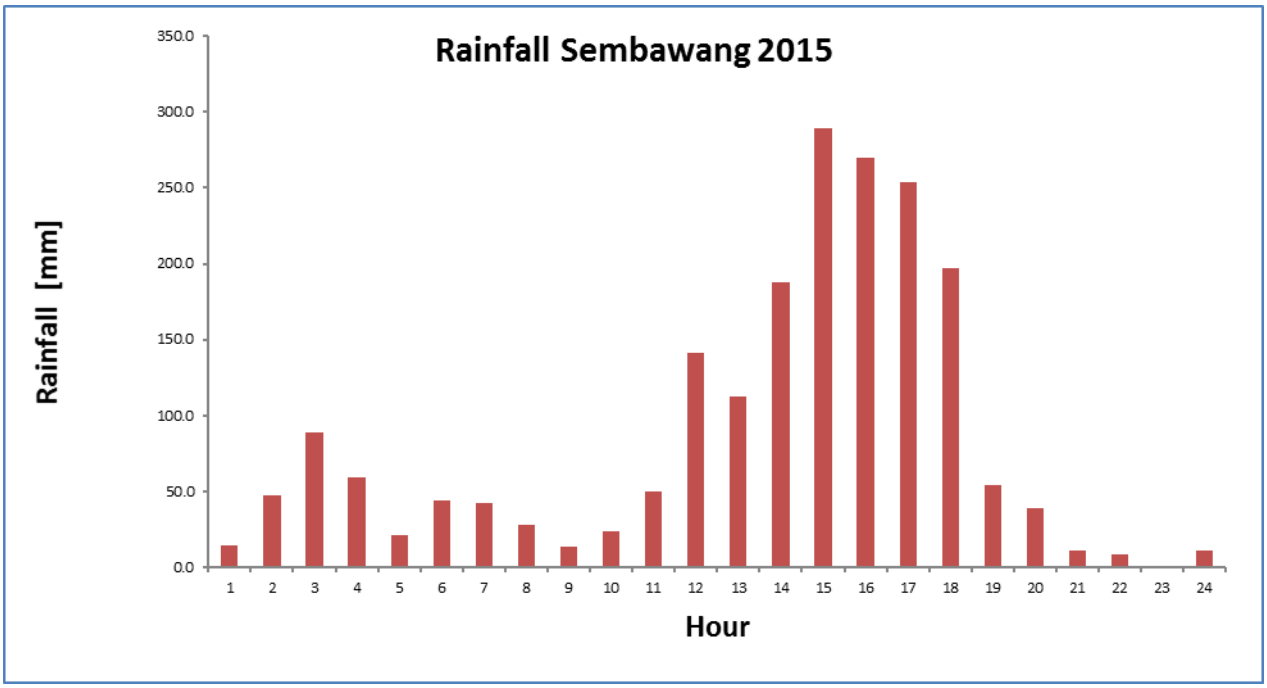


No Data

— Defective Data

S80 Sembawang 2015

Hours	13	14	15	16	17	18	19	20	21	22	23	24
Min Dry Bulb Temperature (°C)	24.1	23.4	23.6	24.0	24.0	23.0	23.9	24.1	23.8	23.8	23.6	23.6
Max Dry Bulb Temperature (°C)	33.5	34.3	34.1	34.0	33.5	32.4	31.4	30.5	30.0	29.8	29.6	29.4
Average Dry Bulb Temperature (°C)	30.9	31.0	30.8	30.3	29.8	29.2	28.4	27.7	27.3	27.0	26.7	26.4
Average Dew Point Temperature (°C)	23.9	23.7	23.6	23.6	23.6	23.7	23.9	24.1	24.2	24.3	24.3	24.1
Min Relative Humidity (%)	49.0	46.0	41.0	40.0	42.0	49.0	55.0	54.0	65.0	70.0	71.0	71.0
Average Relative Humidity (%)	67.4	66.3	66.6	68.5	70.6	73.4	77.5	81.0	83.4	85.4	87.0	87.0
Average Wind Speed (m/s)	3.1	3.3	3.5	3.4	3.3	3.1	2.7	2.4	2.1	2.0	1.8	
Max Gust (m/s)	18.0	14.4	14.4	14.9	14.9	19.5	14.4	10.3	12.3	13.4	7.2	
Rainfall (mm)	112.3	188.1	288.9	270.1	253.7	197.0	54.5	38.9	11.2	8.9	0.7	11.6



No Data

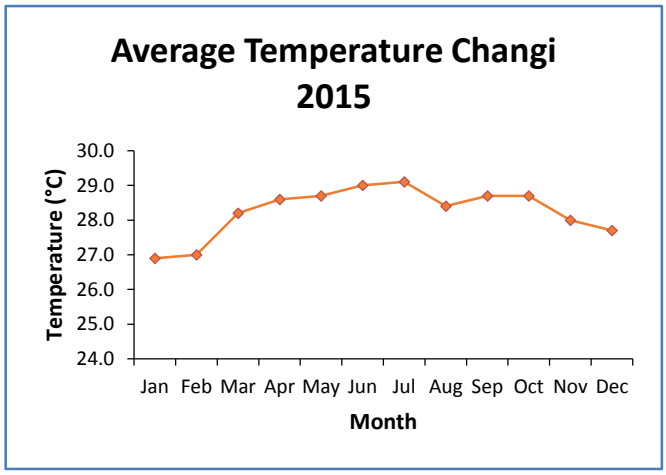
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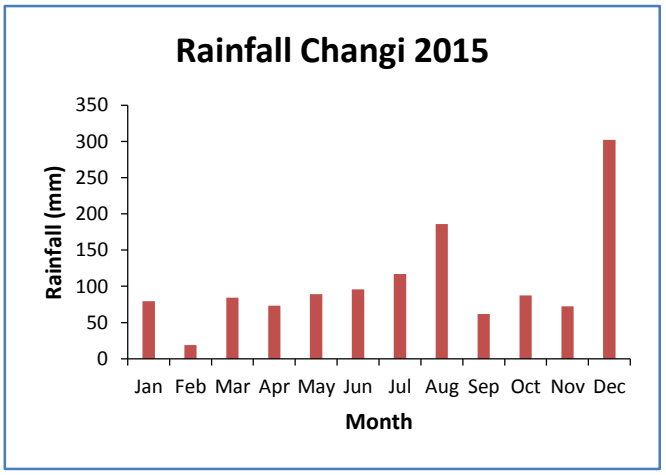
10. Weather Statistics for Automatic Weather Station

10.1. Monthly Observation

S24 Changi 2015

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Min Temperature (°C)	23.3	23.1	23.4	24.0	24.0	24.2	22.1	22.6	23.1	21.9	23.7	22.5
Average Daily Min Temperature (°C)	24.6	24.5	25.5	25.9	26.4	26.6	26.7	26.0	26.5	26.1	25.5	25.0
Average Temperature (°C)	26.9	27.0	28.2	28.6	28.7	29.0	29.1	28.4	28.7	28.7	28.0	27.7
Average Daily Max Temperature (°C)	30.7	31.3	32.5	33.2	32.2	32.0	31.9	31.2	31.7	32.2	32.1	31.5
Max Temperature	32.4	33.6	34.4	34.4	34.2	34.3	32.7	33.1	33.2	33.6	33.6	33.1
Average Dew Point Temperature (°C)	22.7	22.5	23.5	24.2	24.8	24.4	24.3	24.0	23.9	23.9	24.0	24.2
Min Relative Humidity (%)	49.0	49.0	47.0	48.0	46.0	42.0	51.0	40.0	40.0	35.0	47.0	49.0
Average Relative Humidity (%)	77.6	75.4	75.8	77.1	78.9	75.8	74.9	76.3	74.9	75.5	79.1	81.1
Average Wind Speed (m/s)	3.1	3.5	3.0	2.3	2.4	2.7	3.3	3.3	2.9	2.6	1.8	2.2
Prevailing Wind Direction	NE	NE	NE	NE	S	S	S	SSE	S	SE	NW	NE
Maximum Gust (m/s)	11.8	12.0	12.5	10.3	14.3	12.3	16.5	13.6	12.0	16.5	10.5	12.1
Total Rainfall (mm)	79.6	18.8	84.4	73.2	89.0	95.8	116.8	185.8	61.6	87.2	72.6	302.0
Highest Daily Rainfall (mm)	33.6	10.8	46.0	18.8	22.2	28.4	45.8	63.2	18.4	28.6	25.8	40.4



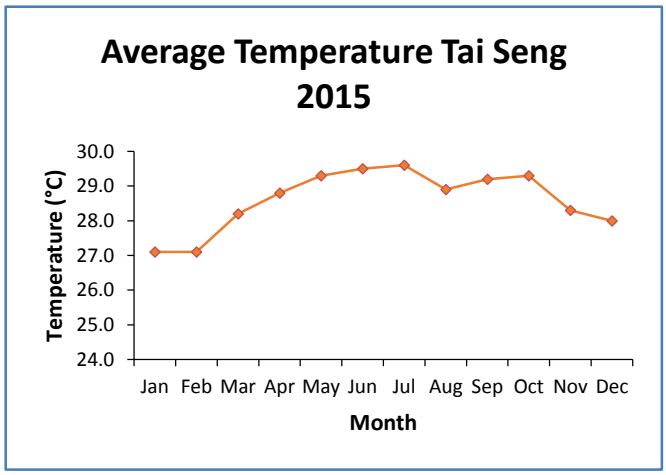


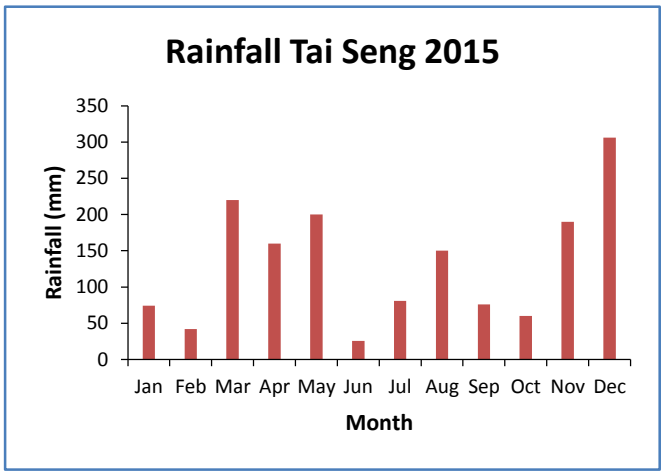
▪ No Data

— Defective Data

S43 Tai Seng 2015

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Min Temperature (°C)	24.3	23.2	22.0	24.2	23.9	24.8	22.7	22.2	23.2	22.7	23.4	23.5
Average Daily Min Temperature (°C)	25.1	24.8	25.7	26.2	26.9	27.5	27.4	26.5	27.1	26.9	25.8	25.5
Average Temperature (°C)	27.1	27.1	28.2	28.8	29.3	29.5	29.6	28.9	29.2	29.3	28.3	28.0
Average Daily Max Temperature (°C)	30.5	30.8	32.0	32.9	32.8	32.6	32.6	32.0	32.3	32.9	32.2	31.6
Max Temperature	32.8	32.9	34.0	34.4	34.9	34.6	34.4	34.0	34.2	34.3	34.5	33.8
Average Dew Point Temperature (°C)	22.1	22.0	23.1	23.8	24.6	24.1	24.0	23.8	23.7	23.5	23.8	23.9
Min Relative Humidity (%)	42.0	43.3	45.8	45.4	43.6	39.1	38.6	39.7	40.0	31.9	44.3	46.7
Average Relative Humidity (%)	74.7	74.7	75.0	75.6	76.4	73.5	72.5	74.8	72.9	72.2	77.5	79.1
Average Wind Speed (m/s)	3.5	3.7	2.8	1.9	1.6	1.9	2.0	1.8	1.7	1.6	1.5	2.1
Prevailing Wind Direction	ENE	ENE	ENE	ENE	S	S	S	S	S	ENE	ENE	ENE
Maximum Gust (m/s)	12.4	13.3	20.3	11.1	12.6	23.0	13.8	10.8	13.6	11.4	18.9	18.1
Total Rainfall (mm)	74.2	42.0	220.0	159.8	200.2	25.4	80.8	150.0	76.0	60.0	190.0	306.2
Highest Daily Rainfall (mm)	28.2	17.0	57.8	41.0	65.6	11.8	35.6	48.0	45.4	21.2	32.0	52.4



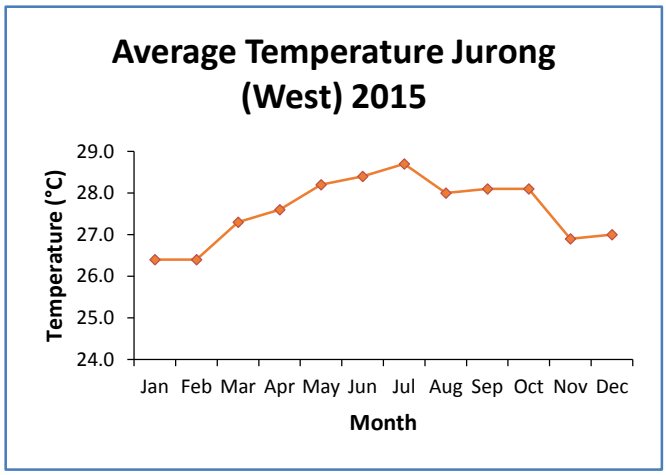


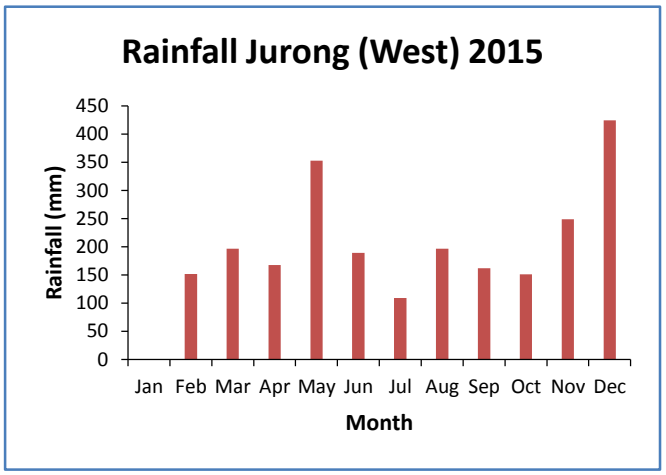
▪ No Data

— Defective Data

S44 Jurong (West) 2015

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Min Temperature (°C)	23.1	22.3	21.7	22.5	22.6	22.5	22.3	21.6	22.9	22.1	22.9	22.6
Average Daily Min Temperature (°C)	23.9	23.6	24.4	24.8	25.3	25.9	26.1	25.3	25.7	25.4	24.5	24.4
Average Temperature (°C)	26.4	26.4	27.3	27.6	28.2	28.4	28.7	28.0	28.1	28.1	26.9	27.0
Average Daily Max Temperature (°C)	30.9	31.3	32.3	32.8	31.6	31.5	31.6	31.1	31.3	32.1	31.6	31.5
Max Temperature	32.0	33.8	34.0	34.7	33.4	34.1	33.0	32.7	33.6	33.6	34.3	33.5
Average Dew Point Temperature (°C)	21.5	21.2	22.5	23.4	24.0	23.7	23.3	23.1	23.2	23.1	23.9	24.0
Min Relative Humidity (%)	40.4	38.9	38.9	40.3	39.2	38.1	44.5	35.0	43.2	34.1	41.9	43.7
Average Relative Humidity (%)	75.6	74.7	76.7	79.6	79.1	76.8	73.6	76.1	75.7	75.7	85.4	85.3
Average Wind Speed (m/s)	2.4	2.4	2.0	1.7	1.9	2.2	2.6	2.5	2.2	1.8	1.6	1.9
Prevailing Wind Direction	N	NE	N	N	SE	SE	SE	SE	SE	SE	N	N
Maximum Gust (m/s)	10.4	13.2	17.7	15.7	10.2	12.6	17.1	19.7	14.4	14.1	14.2	14.5
Total Rainfall (mm)	—	151.4	196.4	167.6	352.4	189.2	109.0	196.4	161.6	150.8	248.8	424.4
Highest Daily Rainfall (mm)	1.0	31.0	37.2	32.8	81.6	51.8	47.4	55.2	67.6	48.4	62.4	106.6



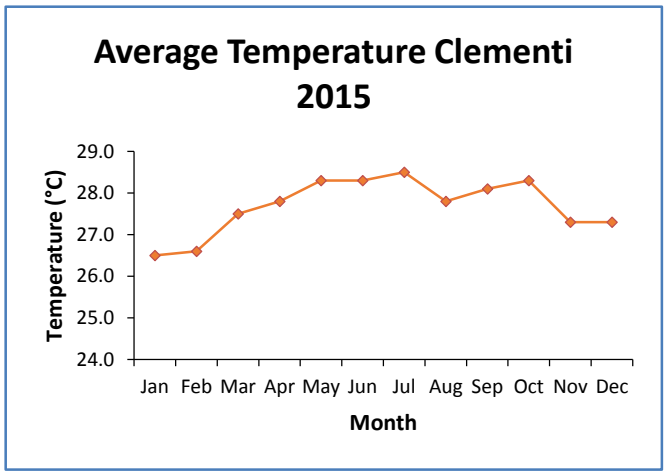


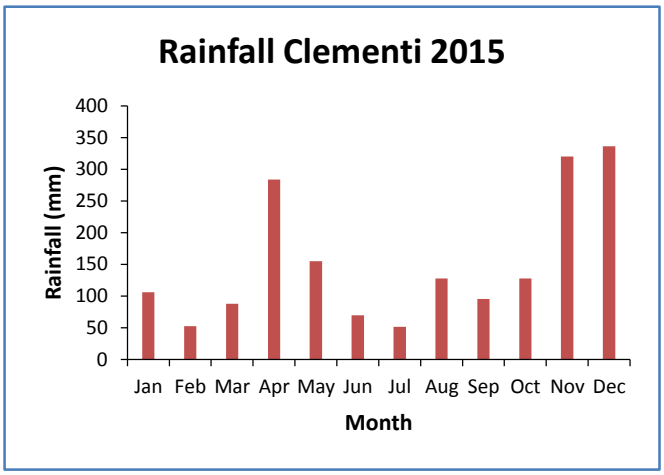
▪ No Data

— Defective Data

S50 Clementi 2015

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Min Temperature (°C)	23.1	22.4	22.5	22.3	23.6	22.1	22.5	22.3	23.1	21.6	22.7	23.0
Average Daily Min Temperature (°C)	24.1	24.0	24.8	24.8	26.0	26.2	26.4	25.4	25.9	25.6	24.8	24.6
Average Temperature (°C)	26.5	26.6	27.5	27.8	28.3	28.3	28.5	27.8	28.1	28.3	27.3	27.3
Average Daily Max Temperature (°C)	30.7	31.2	32.0	32.7	31.6	31.2	31.3	30.7	31.1	32.1	31.8	31.5
Max Temperature	32.3	33.6	33.5	34.8	33.1	33.9	32.8	32.6	33.2	34.3	33.8	33.9
Average Dew Point Temperature (°C)	22.2	22.1	23.2	24.0	24.5	24.3	24.1	23.8	23.8	23.7	23.9	24.0
Min Relative Humidity (%)	46.4	43.7	48.0	47.4	51.9	46.1	48.5	48.5	49.5	40.5	48.2	50.1
Average Relative Humidity (%)	77.8	77.5	78.7	80.8	80.8	79.2	77.6	79.6	78.3	77.2	82.4	82.9
Average Wind Speed (m/s)	1.8	2.0	1.6	1.2	1.4	1.8	2.0	1.8	1.7	1.4	1.3	1.5
Prevailing Wind Direction	NE	NE	NE	NE	SSE	SSE	SSE	SSE	SSE	NE	NW	NE
Maximum Gust (m/s)	11.3	12.8	10.9	12.9	12.1	11.2	15.3	12.8	11.9	16.0	9.8	11.8
Total Rainfall (mm)	106.2	52.6	87.8	283.6	154.8	69.6	51.4	127.8	95.2	127.8	320.2	336.2
Highest Daily Rainfall (mm)	34.8	38.0	23.6	63.4	71.8	29.2	21.8	23.8	42.2	26.2	51.4	49.0



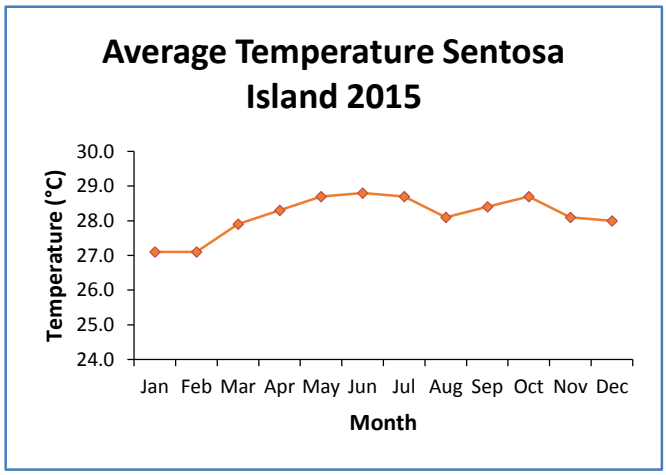


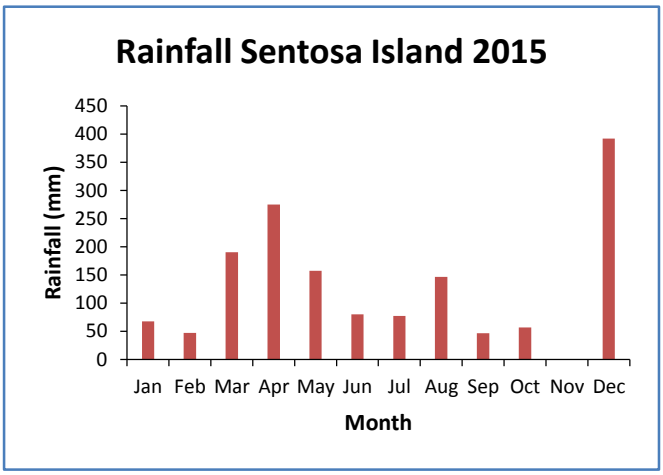
No Data

— Defective Data

S60 Sentosa Island 2015

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Min Temperature (°C)	23.7	22.5	22.3	22.3	23.5	23.7	22.4	22.6	24.3	22.4	23.4	22.9
Average Daily Min Temperature (°C)	24.9	24.9	25.5	25.8	26.6	26.7	26.4	25.8	26.4	26.4	25.7	25.4
Average Temperature (°C)	27.1	27.1	27.9	28.3	28.7	28.8	28.7	28.1	28.4	28.7	28.1	28.0
Average Daily Max Temperature (°C)	30.9	30.8	31.6	32.1	31.6	31.6	31.8	31.1	31.5	32.3	31.6	32.0
Max Temperature	32.8	33.2	33.3	33.8	33.1	33.2	33.1	32.7	32.6	33.6	34.1	33.7
Average Dew Point Temperature (°C)	21.1	20.8	22.3	23.6	24.6	24.1	23.8	23.6	23.4	23.1	23.1	22.8
Min Relative Humidity (%)	30.4	37.7	39.1	40.6	47.5	47.5	31.7	37.3	35.0	32.5	40.2	38.2
Average Relative Humidity (%)	70.8	69.6	72.7	76.4	79.0	76.6	75.7	77.6	75.4	73.0	75.3	74.5
Average Wind Speed (m/s)	2.2	2.7	2.3	1.8	1.6	1.7	2.0	2.4	2.3	2.3	1.9	2.0
Prevailing Wind Direction	NNE	NE	NE	NE	SE	SE	SE	E	E	E	N	N
Maximum Gust (m/s)	10.5	11.5	11.8	11.8	12.2	10.4	16.7	13.0	10.6	18.7	11.5	11.2
Total Rainfall (mm)	67.6	47.0	190.4	274.6	157.4	80.0	77.4	146.2	46.4	56.8	—	391.8
Highest Daily Rainfall (mm)	18.6	31.8	51.4	76.8	49.4	35.4	17.6	50.2	16.0	25.2	40.6	114.2



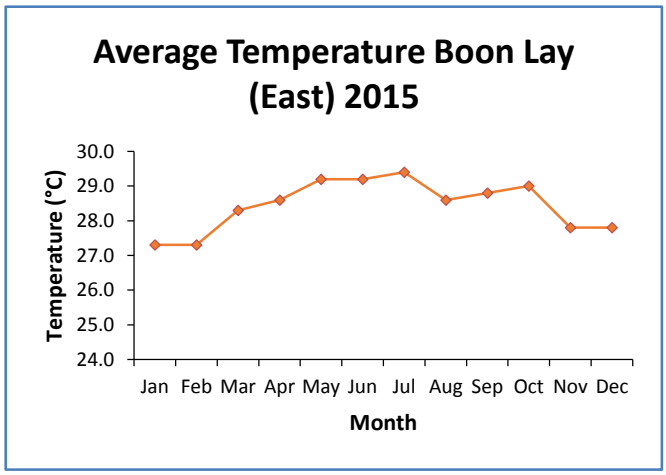


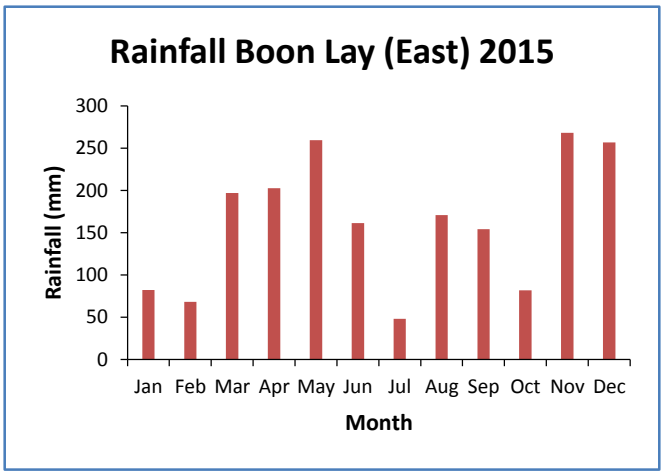
No Data

— Defective Data

S86 Boon Lay (East) 2015

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Min Temperature (°C)	23.1	22.9	22.6	22.8	23.5	22.5	22.6	21.9	23.5	22.7	23.1	23.5
Average Daily Min Temperature (°C)	24.7	24.8	25.5	25.7	26.5	26.8	27.1	26.1	26.5	26.5	25.3	25.3
Average Temperature (°C)	27.3	27.3	28.3	28.6	29.2	29.2	29.4	28.6	28.8	29.0	27.8	27.8
Average Daily Max Temperature (°C)	31.4	31.7	32.9	33.4	32.4	31.9	32.1	31.6	31.7	32.4	31.9	31.9
Max Temperature	33.9	34.1	34.4	35.2	34.5	34.7	33.5	33.6	33.2	33.9	34.3	34.3
Average Dew Point Temperature (°C)	22.1	22.1	23.3	24.1	24.7	24.3	24.1	23.9	23.9	23.8	24.4	24.3
Min Relative Humidity (%)	39.5	41.5	40.5	44.9	41.0	40.9	46.2	40.4	45.2	34.0	43.7	44.3
Average Relative Humidity (%)	74.8	74.6	75.7	77.9	77.8	76.2	73.8	76.8	75.8	74.6	82.9	82.6
Average Wind Speed (m/s)	2.6	2.7	2.2	1.8	1.7	2.0	2.1	1.8	1.8	1.6	1.6	1.8
Prevailing Wind Direction	ENE	E	E	E	S	S	S	S	S	ESE	N	N
Maximum Gust (m/s)	12.0	11.0	21.4	22.3	12.4	19.8	16.2	14.6	14.3	16.4	17.9	19.0
Total Rainfall (mm)	82.2	68.2	197.0	202.6	259.2	161.2	48.0	170.6	154.2	81.6	268.0	256.8
Highest Daily Rainfall (mm)	26.8	30.4	47.4	66.8	70.0	63.0	18.2	33.0	58.6	15.6	45.8	37.2



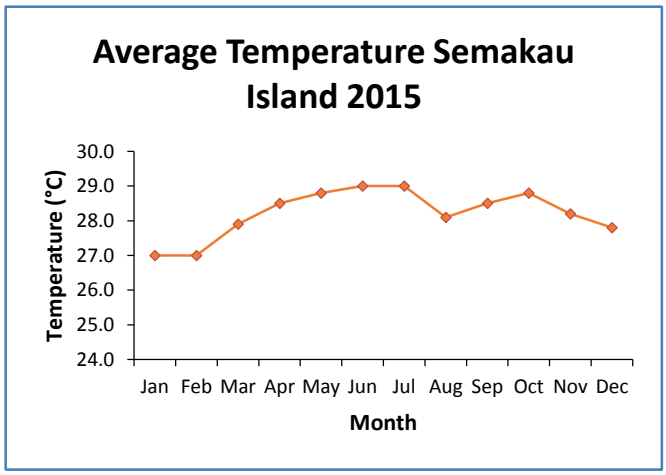


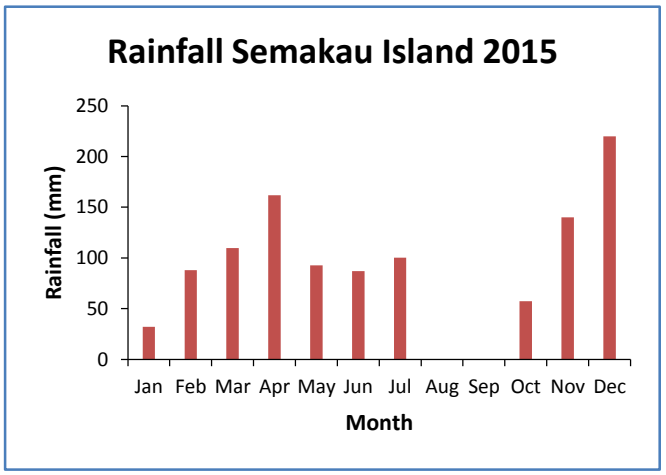
No Data

— Defective Data

S102 Semakau Island 2015

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Min Temperature (°C)	23.8	23.1	22.7	22.9	23.9	24.4	23.8	22.9	23.9	22.8	23.9	23.5
Average Daily Min Temperature (°C)	25.3	25.4	26.0	26.3	27.2	27.5	27.1	26.1	26.9	27.2	26.3	25.8
Average Temperature (°C)	27.0	27.0	27.9	28.5	28.8	29.0	29.0	28.1	28.5	28.8	28.2	27.8
Average Daily Max Temperature (°C)	29.8	29.3	30.4	30.7	30.7	30.5	30.8	29.9	30.2	30.9	30.0	29.9
Max Temperature	31.5	31.1	31.9	32.2	33.6	32.0	32.9	31.8	31.5	32.4	31.9	31.4
Average Dew Point Temperature (°C)	21.8	22.1	23.3	24.0	24.5	24.4	24.3	23.9	24.0	23.8	23.9	23.6
Min Relative Humidity (%)	40.4	44.0	49.3	56.9	46.3	53.7	45.0	40.3	50.0	51.5	55.8	53.4
Average Relative Humidity (%)	73.8	74.8	76.5	77.0	77.7	76.1	76.0	77.9	76.8	74.5	77.5	78.3
Average Wind Speed (m/s)	5.8	6.5	5.2	4.3	3.7	4.3	4.6	4.3	4.5	4.0	5.1	4.8
Prevailing Wind Direction	N	NNE	NNE	NNE	S	S	S	S	S	S	N	N
Maximum Gust (m/s)	15.0	17.9	17.1	21.3	18.9	15.2	22.2	21.0	25.8	18.0	18.3	22.2
Total Rainfall (mm)	32.0	88.0	109.8	161.9	92.6	86.9	100.2	—	—	57.4	140.0	220.0
Highest Daily Rainfall (mm)	13.8	74.4	51.6	30.0	43.5	40.5	23.2	39.8	36.4	24.0	32.4	43.2



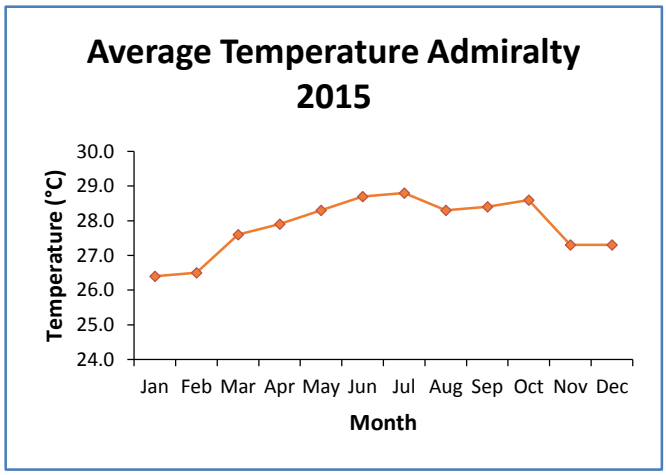


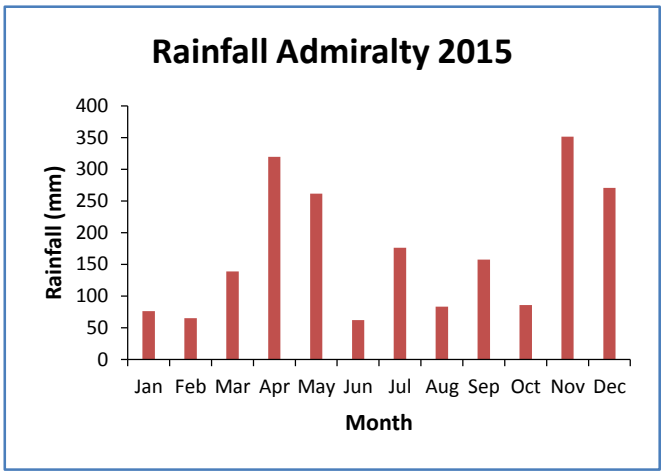
▪ No Data

— Defective Data

S104 Admiralty 2015

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Min Temperature (°C)	23.3	23.0	22.4	21.7	22.9	22.7	22.2	22.6	22.8	22.2	23.1	23.3
Average Daily Min Temperature (°C)	24.2	23.9	25.0	24.8	25.6	26.1	25.8	25.7	25.8	25.7	24.7	24.7
Average Temperature (°C)	26.4	26.5	27.6	27.9	28.3	28.7	28.8	28.3	28.4	28.6	27.3	27.3
Average Daily Max Temperature (°C)	30.3	30.7	32.3	32.9	32.3	32.4	32.4	31.8	32.1	32.9	32.1	31.4
Max Temperature	32.8	34.1	35.0	34.8	34.3	35.1	34.1	33.4	33.9	34.2	34.2	33.7
Average Dew Point Temperature (°C)	23.4	23.4	24.5	25.2	25.9	25.6	25.3	25.1	25.1	24.9	25.2	25.3
Min Relative Humidity (%)	44.0	42.5	43.5	44.1	42.3	42.5	46.1	42.1	43.0	39.0	48.7	42.9
Average Relative Humidity (%)	84.8	84.4	84.6	86.8	88.3	84.4	82.9	84.1	83.3	81.9	89.9	89.5
Average Wind Speed (m/s)	3.6	3.8	3.1	2.3	1.7	1.8	2.0	2.1	1.9	1.9	1.8	2.4
Prevailing Wind Direction	N	NE	NE	N	S	S	S	S	S	S	N	N
Maximum Gust (m/s)	12.4	14.1	16.0	17.6	10.8	13.1	16.1	17.6	14.6	15.5	13.5	15.7
Total Rainfall (mm)	76.4	65.2	138.6	319.4	261.4	62.0	176.2	83.0	157.4	85.6	351.2	270.4
Highest Daily Rainfall (mm)	41.8	42.6	37.4	64.4	87.2	13.4	40.4	16.8	72.2	30.8	44.4	48.2



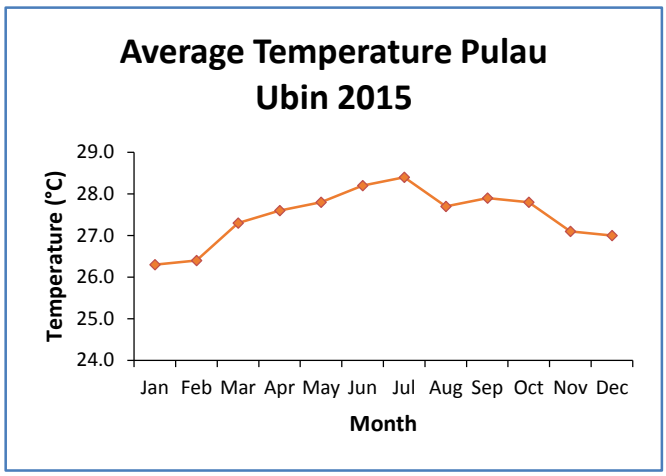


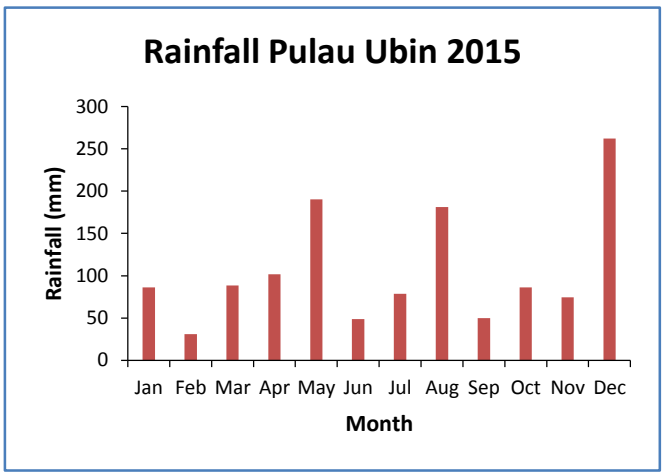
▪ No Data

— Defective Data

S106 Pulau Ubin 2015

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Min Temperature (°C)	22.6	22.1	22.5	22.5	23.4	23.1	22.3	22.0	23.1	21.6	23.3	22.5
Average Daily Min Temperature (°C)	23.8	23.3	24.2	24.6	25.1	25.4	25.3	24.9	25.0	24.8	24.5	24.2
Average Temperature (°C)	26.3	26.4	27.3	27.6	27.8	28.2	28.4	27.7	27.9	27.8	27.1	27.0
Average Daily Max Temperature (°C)	30.3	30.7	32.0	33.0	32.7	32.8	32.8	32.0	32.3	32.6	32.2	31.5
Max Temperature	31.9	33.3	34.0	35.1	34.5	35.2	34.7	33.7	33.7	34.7	33.9	34.0
Average Dew Point Temperature (°C)	23.7	23.5	24.5	25.2	26.0	25.7	25.7	25.4	25.3	25.4	25.2	25.3
Min Relative Humidity (%)	53.6	53.5	51.6	52.9	50.9	44.1	50.4	40.2	46.2	41.0	53.0	54.2
Average Relative Humidity (%)	86.6	85.3	85.8	87.7	90.6	87.4	86.3	88.2	87.2	87.7	90.3	91.2
Average Wind Speed (m/s)	2.6	2.7	2.1	2.0	1.9	2.1	2.2	2.3	2.1	2.1	2.3	2.5
Prevailing Wind Direction	NNW	NNW	NNW	NW	NW	NW	WNW	WNW	NW	NW	NW	NW
Maximum Gust (m/s)	9.8	10.6	9.7	20.2	13.5	11.6	14.6	12.5	13.4	11.4	10.6	12.6
Total Rainfall (mm)	86.2	30.8	88.4	101.6	190.2	48.8	78.8	181.2	49.8	86.2	74.6	262.4
Highest Daily Rainfall (mm)	39.6	20.6	28.6	25.0	37.4	16.8	23.2	71.6	16.6	32.4	22.8	45.4



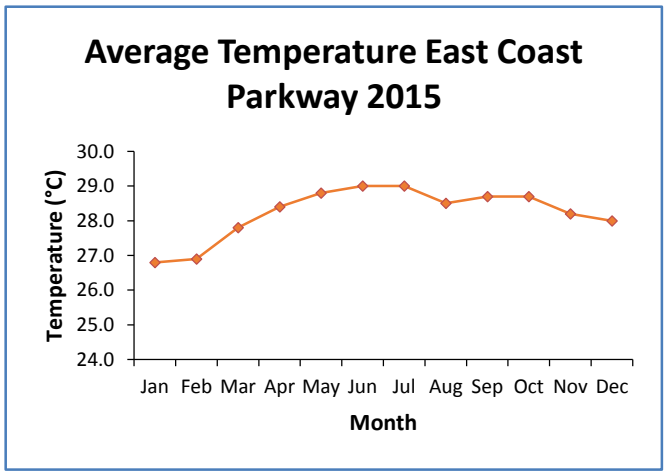


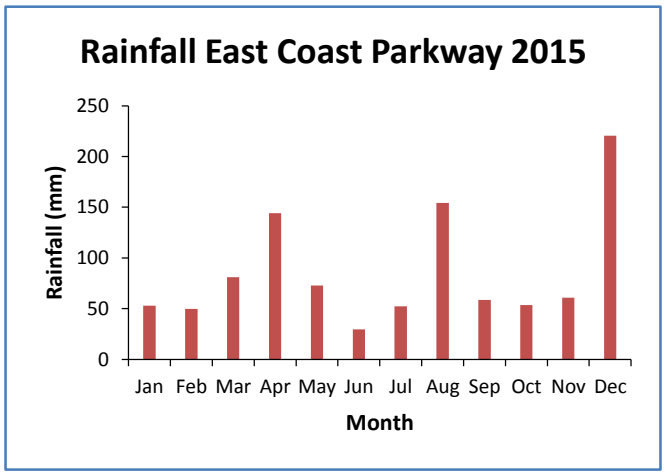
▪ No Data

— Defective Data

S107 East Coast Parkway 2015

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Min Temperature (°C)	24.4	22.8	23.4	23.4	23.6	24.4	22.7	22.6	24.2	22.6	24.1	22.5
Average Daily Min Temperature (°C)	25.1	24.8	25.9	26.2	26.9	27.4	27.1	26.6	27.0	26.9	26.3	25.5
Average Temperature (°C)	26.8	26.9	27.8	28.4	28.8	29.0	29.0	28.5	28.7	28.7	28.2	28.0
Average Daily Max Temperature (°C)	29.7	30.1	30.7	31.2	30.5	30.6	30.5	30.0	30.3	30.6	30.5	30.8
Max Temperature	32.0	32.3	31.9	32.8	32.0	31.8	31.5	31.5	31.5	31.6	31.8	32.5
Average Dew Point Temperature (°C)	21.4	21.2	22.5	23.6	24.3	—	—	24.7	24.7	24.7	24.6	24.6
Min Relative Humidity (%)	33.4	44.6	41.9	42.3	43.6	—	—	48.0	53.9	48.1	59.2	50.0
Average Relative Humidity (%)	72.7	72.0	73.5	76.0	76.9	—	—	80.2	79.5	79.6	81.0	82.1
Average Wind Speed (m/s)	3.0	3.1	2.5	2.1	3.0	3.6	4.4	4.1	3.6	2.8	2.0	2.1
Prevailing Wind Direction	N	NNE	NNE	NNE	SE	SE	SE	SE	SE	ESE	N	N
Maximum Gust (m/s)	13.6	14.5	14.2	15.0	15.9	15.2	17.2	15.8	15.4	15.7	10.0	16.3
Total Rainfall (mm)	53.0	49.8	81.0	144.2	72.8	29.6	52.2	154.4	58.8	53.6	61.0	220.6
Highest Daily Rainfall (mm)	29.4	38.8	36.8	47.6	26.0	7.0	23.2	38.0	26.6	14.6	33.2	78.4



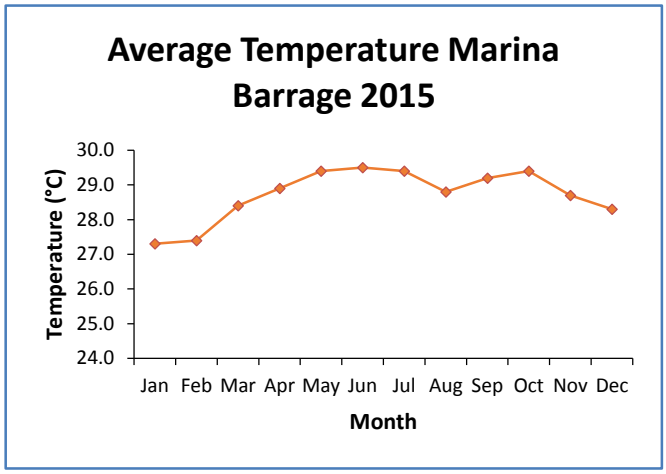


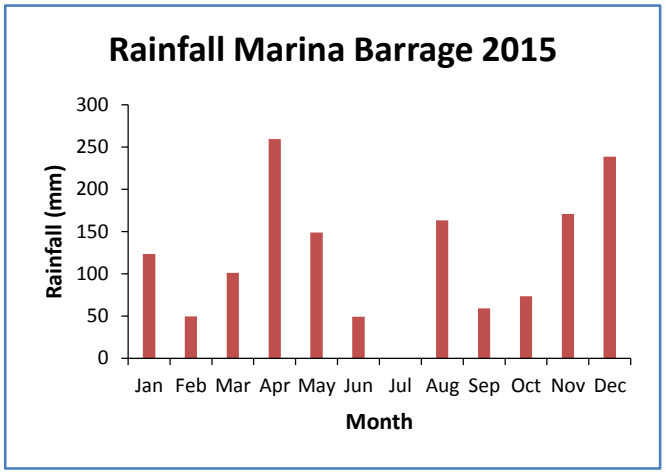
▪ No Data

— Defective Data

S108 Marina Barrage 2015

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Min Temperature (°C)	23.9	22.7	22.6	22.8	24.0	24.3	22.9	22.5	24.3	23.2	23.6	23.4
Average Daily Min Temperature (°C)	25.0	24.9	26.0	26.0	27.0	27.2	27.1	26.2	27.0	27.0	26.1	25.5
Average Temperature (°C)	27.3	27.4	28.4	28.9	29.4	29.5	29.4	28.8	29.2	29.4	28.7	28.3
Average Daily Max Temperature (°C)	31.5	31.6	32.7	33.0	32.9	32.8	32.7	32.2	32.6	33.2	32.8	32.4
Max Temperature	34.5	34.9	35.2	34.3	34.8	34.7	33.9	34.2	34.1	34.2	34.4	34.7
Average Dew Point Temperature (°C)	22.2	22.1	23.4	24.4	25.1	24.7	24.9	24.4	24.3	24.2	24.2	24.1
Min Relative Humidity (%)	37.9	37.2	42.1	47.5	46.2	49.1	48.1	42.8	45.1	38.5	48.2	42.7
Average Relative Humidity (%)	74.8	74.2	75.0	77.5	78.5	76.4	77.0	77.7	75.8	74.5	77.3	78.8
Average Wind Speed (m/s)	2.8	2.7	2.0	1.5	1.2	1.3	1.5	1.4	1.4	1.3	1.6	2.2
Prevailing Wind Direction	NNW	NE	NE	NNW	S	S	S	S	S	ESE	NNW	NNW
Maximum Gust (m/s)	21.0	11.5	15.9	24.7	21.1	11.4	10.4	12.5	18.9	10.1	21.1	25.5
Total Rainfall (mm)	123.4	49.4	101.2	259.2	148.8	49.0	—	163.0	59.2	73.4	170.6	238.6
Highest Daily Rainfall (mm)	42.6	25.8	49.6	76.6	62.4	13.8	27.8	30.4	23.6	24.4	54.4	49.2



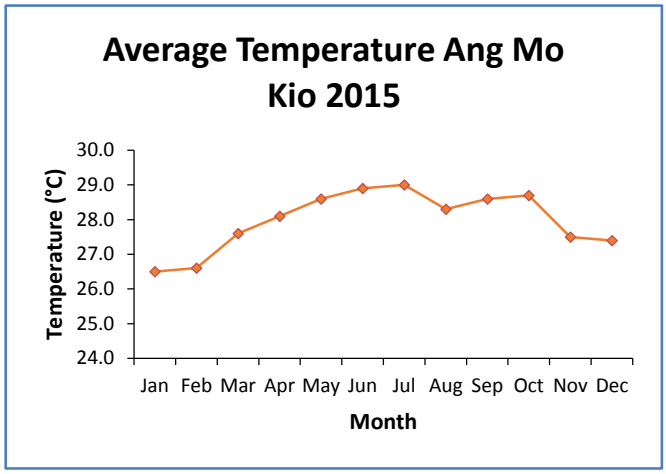


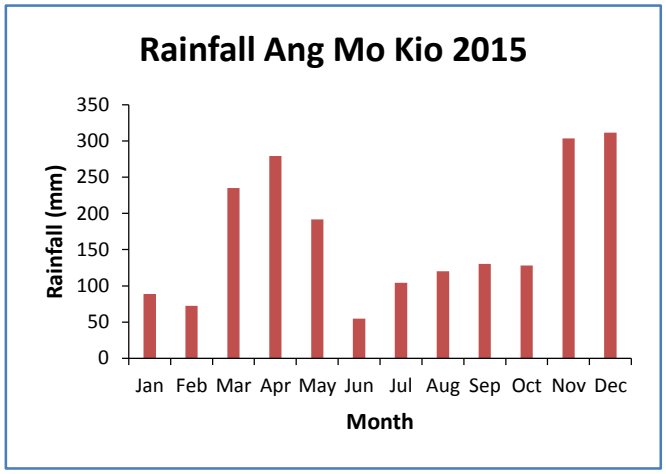
No Data

— Defective Data

S109 Ang Mo Kio 2015

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Min Temperature (°C)	23.4	22.5	22.0	22.5	23.4	22.9	22.0	21.6	22.5	22.0	23.2	23.4
Average Daily Min Temperature (°C)	24.2	23.9	24.8	25.1	25.9	26.5	26.4	25.8	26.2	25.9	24.9	24.8
Average Temperature (°C)	26.5	26.6	27.6	28.1	28.6	28.9	29.0	28.3	28.6	28.7	27.5	27.4
Average Daily Max Temperature (°C)	30.6	31.0	32.6	33.1	32.5	32.3	32.3	31.7	32.0	32.7	32.2	31.5
Max Temperature	32.6	33.8	34.8	34.1	34.2	34.9	33.8	33.6	33.7	34.9	34.5	33.8
Average Dew Point Temperature (°C)	21.4	21.2	22.2	23.1	23.9	23.4	23.1	23.0	22.8	22.8	23.6	23.7
Min Relative Humidity (%)	37.0	40.2	35.7	41.7	37.4	35.4	39.0	30.8	38.3	30.3	39.3	43.0
Average Relative Humidity (%)	74.9	73.4	73.8	76.0	76.9	73.3	71.2	73.9	72.1	72.2	80.3	81.4
Average Wind Speed (m/s)	2.1	2.3	1.8	1.4	1.5	1.6	2.0	2.0	1.8	1.6	1.2	1.5
Prevailing Wind Direction	NNE	NE	NE	ENE	E	E	E	E	E	E	W	W
Maximum Gust (m/s)	10.7	12.0	13.3	13.1	10.6	11.5	15.3	12.1	20.5	14.3	12.3	16.1
Total Rainfall (mm)	88.8	72.2	235.0	279.2	191.8	54.6	104.0	120.0	130.4	128.0	303.2	311.2
Highest Daily Rainfall (mm)	41.8	40.2	63.2	58.0	42.2	31.4	35.4	39.8	79.6	33.4	65.4	88.6



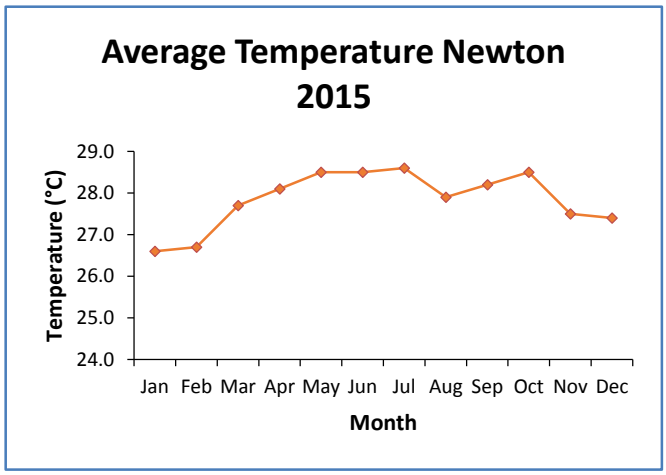


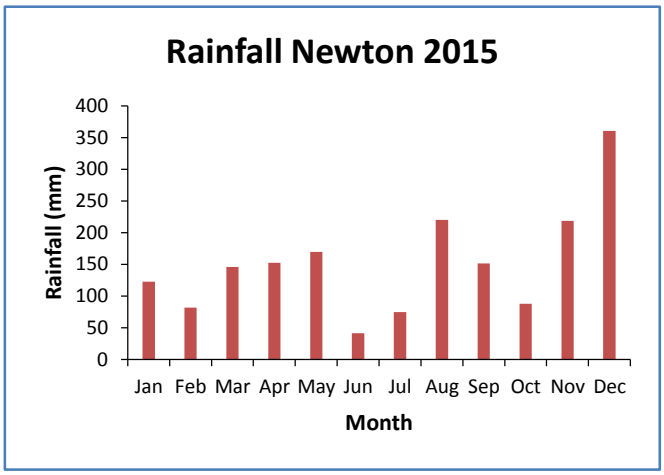
No Data

— Defective Data

S111 Newton 2015

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Min Temperature (°C)	23.3	22.3	21.9	22.7	23.8	23.4	22.3	22.0	23.2	21.8	22.8	22.4
Average Daily Min Temperature (°C)	24.4	24.4	25.2	25.6	26.5	26.6	26.6	25.6	26.4	26.3	25.1	24.7
Average Temperature (°C)	26.6	26.7	27.7	28.1	28.5	28.5	28.6	27.9	28.2	28.5	27.5	27.4
Average Daily Max Temperature (°C)	30.6	30.7	31.9	32.4	31.9	31.5	31.4	30.8	31.3	32.3	31.7	31.2
Max Temperature	32.2	32.9	33.9	33.5	34.1	33.5	32.7	32.4	32.7	34.2	34.3	33.1
Average Dew Point Temperature (°C)	21.6	21.9	23.0	24.0	24.9	24.5	24.4	24.0	24.1	23.7	24.6	23.1
Min Relative Humidity (%)	37.3	43.8	40.6	44.8	42.0	42.1	44.6	38.8	43.3	30.2	45.8	46.2
Average Relative Humidity (%)	74.5	75.7	76.3	77.0	80.2	77.8	78.5	78.1	77.9	75.3	81.0	76.4
Average Wind Speed (m/s)	2.1	2.2	1.9	1.6	2.1	2.3	2.7	2.6	2.4	2.2	1.4	1.6
Prevailing Wind Direction	N	E	E	E	ESE	SE	ESE	ESE	ESE	ESE	N	N
Maximum Gust (m/s)	12.3	13.1	12.2	14.5	12.5	12.8	14.9	14.4	12.8	16.4	10.6	13.3
Total Rainfall (mm)	122.6	81.6	145.6	152.2	169.8	41.4	74.6	220.2	151.2	87.6	218.4	360.4
Highest Daily Rainfall (mm)	52.2	32.2	55.0	38.6	46.2	12.6	23.4	49.8	65.0	30.4	47.2	76.6



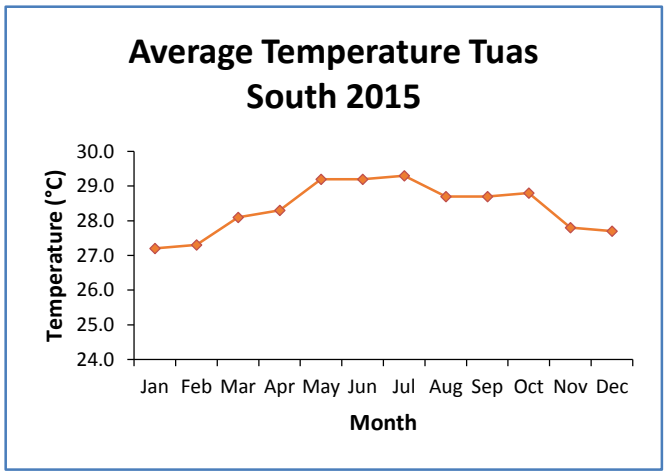


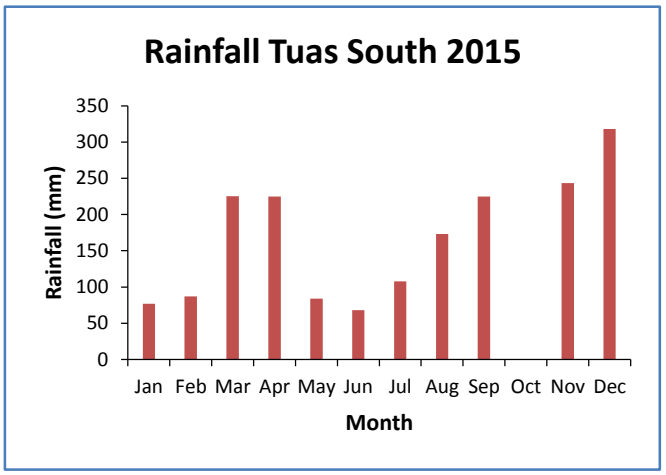
▪ No Data

— Defective Data

S115 Tuas South 2015

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Min Temperature (°C)	23.6	23.6	22.6	22.8	25.1	23.2	23.4	22.6	22.7	22.8	23.6	23.6
Average Daily Min Temperature (°C)	24.8	24.7	25.4	25.7	27.1	27.2	27.0	26.3	26.5	26.5	25.5	25.3
Average Temperature (°C)	27.2	27.3	28.1	28.3	29.2	29.2	29.3	28.7	28.7	28.8	27.8	27.7
Average Daily Max Temperature (°C)	31.2	31.4	32.2	32.0	32.1	31.9	32.2	31.5	31.3	31.8	30.8	31.4
Max Temperature	32.6	35.2	34.8	34.2	34.4	34.3	33.8	33.2	33.3	32.9	33.5	33.9
Average Dew Point Temperature (°C)	21.9	21.9	23.1	23.8	24.4	24.2	24.1	23.7	23.9	23.8	23.9	23.9
Min Relative Humidity (%)	39.9	39.8	42.6	47.4	42.8	44.2	44.8	44.0	52.2	50.6	49.3	45.9
Average Relative Humidity (%)	73.7	73.1	74.7	77.3	76.0	74.8	73.6	75.0	75.5	75.1	79.9	80.1
Average Wind Speed (m/s)	2.0	1.9	1.6	1.5	1.5	1.7	1.6	1.4	1.4	1.3	1.6	1.5
Prevailing Wind Direction	NE	NE	NE	NNE	SSW	S	S	S	SSW	SSW	NNE	NNE
Maximum Gust (m/s)	8.1	13.0	12.7	10.4	11.9	13.7	14.2	14.9	15.8	8.7	15.8	19.4
Total Rainfall (mm)	76.6	87.0	225.2	225.0	83.8	67.8	107.8	173.2	224.8	—	243.2	317.8
Highest Daily Rainfall (mm)	22.6	29.4	84.2	48.8	45.6	27.4	23.0	62.4	93.0	84.2	44.0	42.4



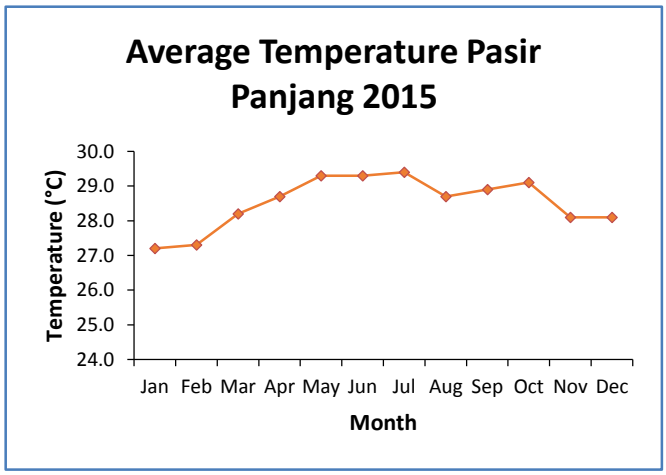


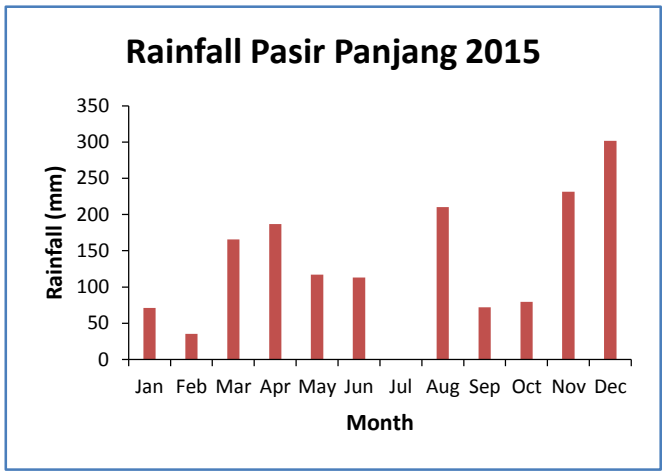
▪ No Data

— Defective Data

S116 Pasir Panjang 2015

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Min Temperature (°C)	23.9	23.2	22.2	22.8	23.7	23.6	22.8	22.7	24.0	22.9	23.4	24.0
Average Daily Min Temperature (°C)	25.1	25.0	25.7	26.2	27.2	27.5	27.4	26.4	27.1	27.0	25.9	25.6
Average Temperature (°C)	27.2	27.3	28.2	28.7	29.3	29.3	29.4	28.7	28.9	29.1	28.1	28.1
Average Daily Max Temperature (°C)	30.8	31.2	31.8	32.3	31.7	31.6	31.7	31.0	31.3	31.9	31.1	31.4
Max Temperature	32.3	34.1	33.3	33.9	33.8	33.3	33.5	32.8	33.1	33.0	33.8	33.1
Average Dew Point Temperature (°C)	22.7	22.7	24.1	24.9	25.7	25.5	25.4	25.0	25.1	24.9	25.2	25.0
Min Relative Humidity (%)	41.6	44.0	44.4	49.0	49.0	47.8	44.7	42.0	47.7	40.9	52.6	48.2
Average Relative Humidity (%)	77.4	77.2	79.4	80.9	81.6	80.3	79.2	81.1	80.4	78.9	84.7	84.5
Average Wind Speed (m/s)	3.9	3.6	2.8	2.4	2.5	2.7	3.0	2.9	2.7	2.4	2.3	2.8
Prevailing Wind Direction	NE	NE	NE	NE	ESE	ESE	ESE	ESE	ESE	ESE	NE	NE
Maximum Gust (m/s)	13.2	15.9	15.1	17.0	16.9	14.6	19.3	16.5	16.0	15.7	16.0	16.1
Total Rainfall (mm)	71.2	35.4	165.6	187.0	116.8	113.0	—	210.4	71.8	79.4	231.2	301.8
Highest Daily Rainfall (mm)	29.4	27.2	64.2	57.4	30.0	48.0	14.4	45.8	16.2	19.8	44.2	57.0



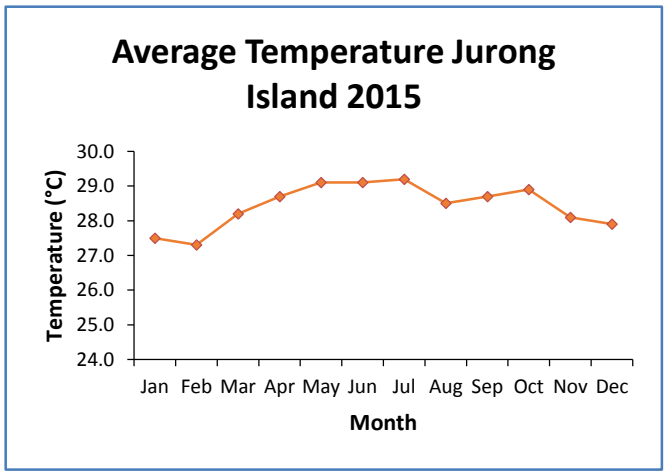


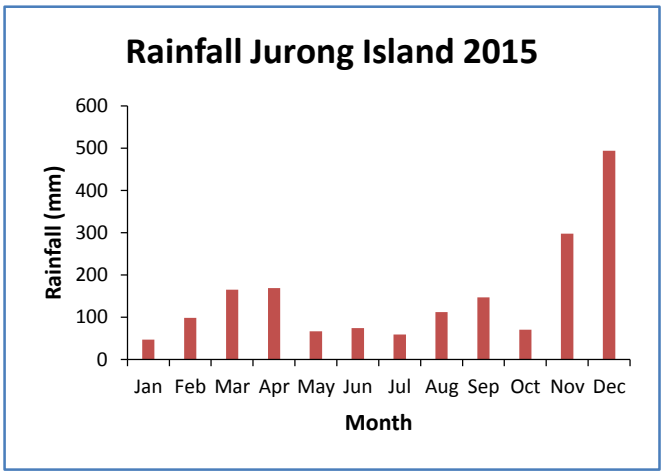
▪ No Data

— Defective Data

S117 Jurong Island 2015

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Min Temperature (°C)	22.8	22.3	22.6	23.7	24.1	23.6	22.8	22.8	23.1	22.7	23.3	22.8
Average Daily Min Temperature (°C)	25.0	24.9	25.7	26.0	27.2	27.2	26.9	26.4	26.7	26.8	25.5	25.2
Average Temperature (°C)	27.5	27.3	28.2	28.7	29.1	29.1	29.2	28.5	28.7	28.9	28.1	27.9
Average Daily Max Temperature (°C)	31.5	31.4	32.1	32.3	31.8	31.7	31.9	31.2	31.4	32.0	31.4	31.5
Max Temperature	33.0	34.4	34.3	34.0	33.9	33.4	33.2	32.8	33.1	33.2	33.6	33.4
Average Dew Point Temperature (°C)	22.0	22.0	23.4	24.6	24.8	24.0	23.8	23.5	23.6	23.4	23.6	23.6
Min Relative Humidity (%)	32.1	36.0	37.3	43.5	38.5	44.1	46.2	43.2	41.4	38.6	48.3	37.6
Average Relative Humidity (%)	73.2	74.1	76.3	79.3	78.0	74.2	73.3	74.8	74.6	72.8	77.3	78.3
Average Wind Speed (m/s)	—	2.3	2.0	1.9	2.9	3.2	3.7	3.6	3.2	2.9	1.6	1.6
Prevailing Wind Direction	—	N	N	NNW	ESE	SE	SE	ESE	ESE	ESE	NNW	NNW
Maximum Gust (m/s)	—	13.2	15.7	14.5	15.3	10.8	16.7	18.9	15.7	19.9	15.8	12.6
Total Rainfall (mm)	47.0	98.4	165.0	168.6	66.8	74.0	59.0	111.8	146.6	70.6	297.8	494.0
Highest Daily Rainfall (mm)	17.2	44.6	79.2	27.6	31.8	27.6	17.2	43.2	39.0	15.0	55.0	128.8



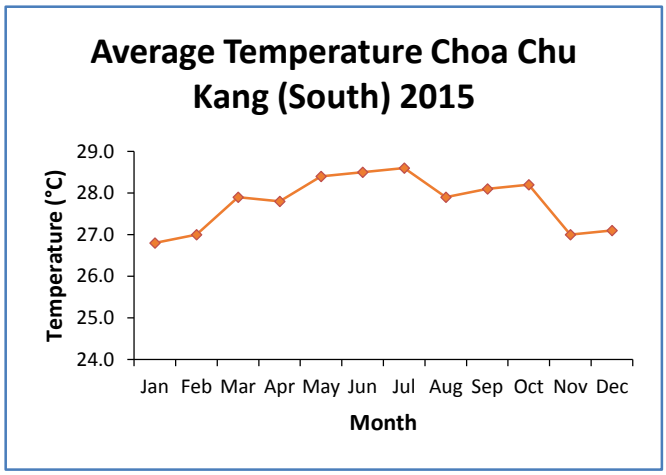


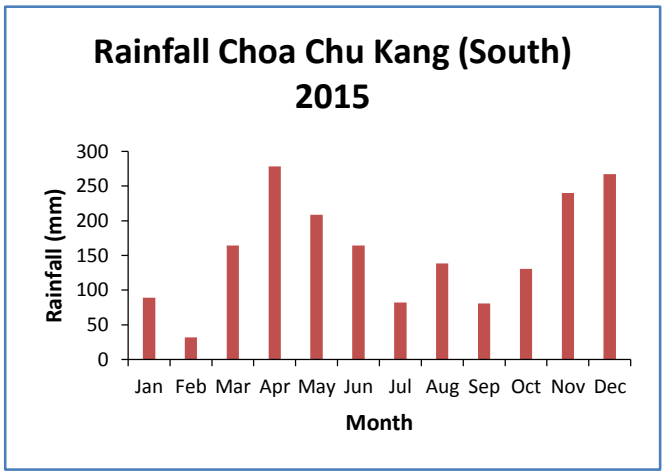
▪ No Data

— Defective Data

S121 Choa Chu Kang (South) 2015

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Min Temperature (°C)	22.0	23.2	23.5	22.8	23.5	22.1	22.6	22.3	22.9	21.8	23.0	22.8
Average Daily Min Temperature (°C)	24.2	24.4	25.1	24.8	25.5	25.6	25.8	25.1	25.3	25.1	24.5	24.6
Average Temperature (°C)	26.8	27.0	27.9	27.8	28.4	28.5	28.6	27.9	28.1	28.2	27.0	27.1
Average Daily Max Temperature (°C)	30.9	31.5	32.7	33.2	32.3	32.1	32.1	31.5	31.8	32.4	32.0	31.5
Max Temperature	32.8	34.2	34.3	34.8	34.2	35.2	33.5	33.8	33.5	33.9	34.2	33.7
Average Dew Point Temperature (°C)	21.6	21.7	22.9	23.1	23.4	—	—	24.8	24.8	24.7	25.0	25.1
Min Relative Humidity (%)	34.9	35.1	36.7	40.6	49.4	—	—	43.9	49.4	41.0	53.1	54.1
Average Relative Humidity (%)	74.8	74.7	76.2	72.3	70.2	—	—	83.9	82.9	82.7	89.6	89.4
Average Wind Speed (m/s)	2.2	2.4	1.7	1.2	1.1	1.4	1.5	1.4	1.3	1.2	1.2	1.6
Prevailing Wind Direction	NNE	NNE	NNE	N	N	SSE	SSE	SSE	SSE	SSE	N	NNE
Maximum Gust (m/s)	10.1	11.0	10.2	12.4	10.8	27.4	13.9	12.4	11.5	12.4	36.6	31.7
Total Rainfall (mm)	89.0	31.8	164.4	278.2	208.8	164.4	82.2	138.4	80.6	130.4	240.0	267.0
Highest Daily Rainfall (mm)	55.2	13.4	35.8	37.6	109.0	57.4	21.4	30.6	42.2	24.4	36.0	49.2



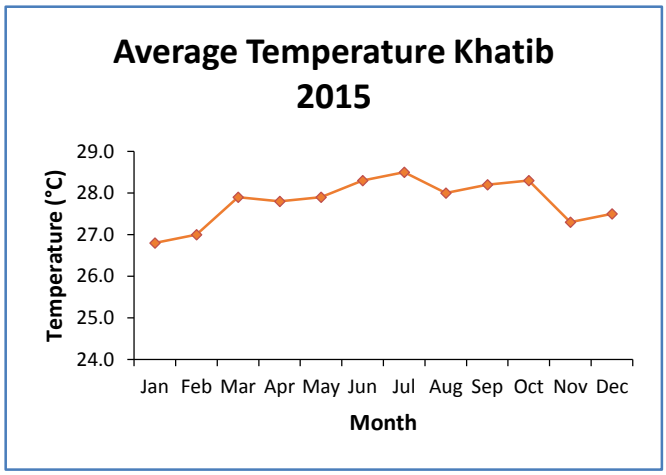


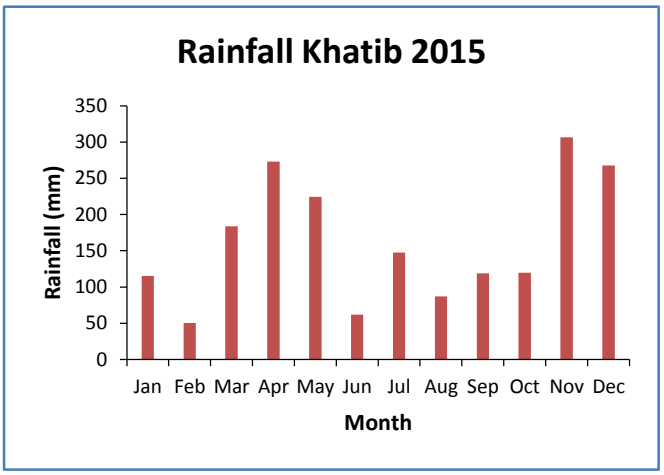
▪ No Data

— Defective Data

S122 Khatib 2015

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Min Temperature (°C)	23.1	22.6	22.2	23.0	23.2	22.8	22.3	22.6	23.2	22.5	23.3	22.9
Average Daily Min Temperature (°C)	24.1	24.1	24.8	24.5	25.0	25.2	25.2	25.0	25.0	24.9	24.4	24.5
Average Temperature (°C)	26.8	27.0	27.9	27.8	27.9	28.3	28.5	28.0	28.2	28.3	27.3	27.5
Average Daily Max Temperature (°C)	31.4	31.9	33.1	33.5	32.5	32.5	32.5	32.0	32.4	32.9	32.6	32.4
Max Temperature	33.0	34.1	34.7	34.9	34.4	34.5	33.9	34.0	34.4	34.2	34.2	34.5
Average Dew Point Temperature (°C)	21.0	20.9	22.1	23.3	23.5	—	—	23.0	24.1	24.0	—	23.5
Min Relative Humidity (%)	34.5	34.4	37.4	40.1	43.7	—	—	37.7	41.7	37.5	49.0	46.5
Average Relative Humidity (%)	71.6	71.0	73.0	78.3	71.4	—	—	69.8	79.1	79.6	—	78.6
Average Wind Speed (m/s)	1.9	2.0	1.6	1.3	1.1	1.3	1.5	1.4	1.3	1.2	1.0	1.3
Prevailing Wind Direction	NNW	NE	NE	NE	S	S	S	S	ESE	E	NNW	NE
Maximum Gust (m/s)	9.3	10.1	9.6	11.2	10.1	9.8	13.3	11.0	10.3	9.4	9.2	9.6
Total Rainfall (mm)	115.4	50.4	183.9	272.9	224.2	62.0	147.6	87.0	118.6	119.8	306.4	267.8
Highest Daily Rainfall (mm)	39.0	18.6	67.6	61.0	82.8	21.2	30.6	17.4	33.8	40.0	53.6	65.0





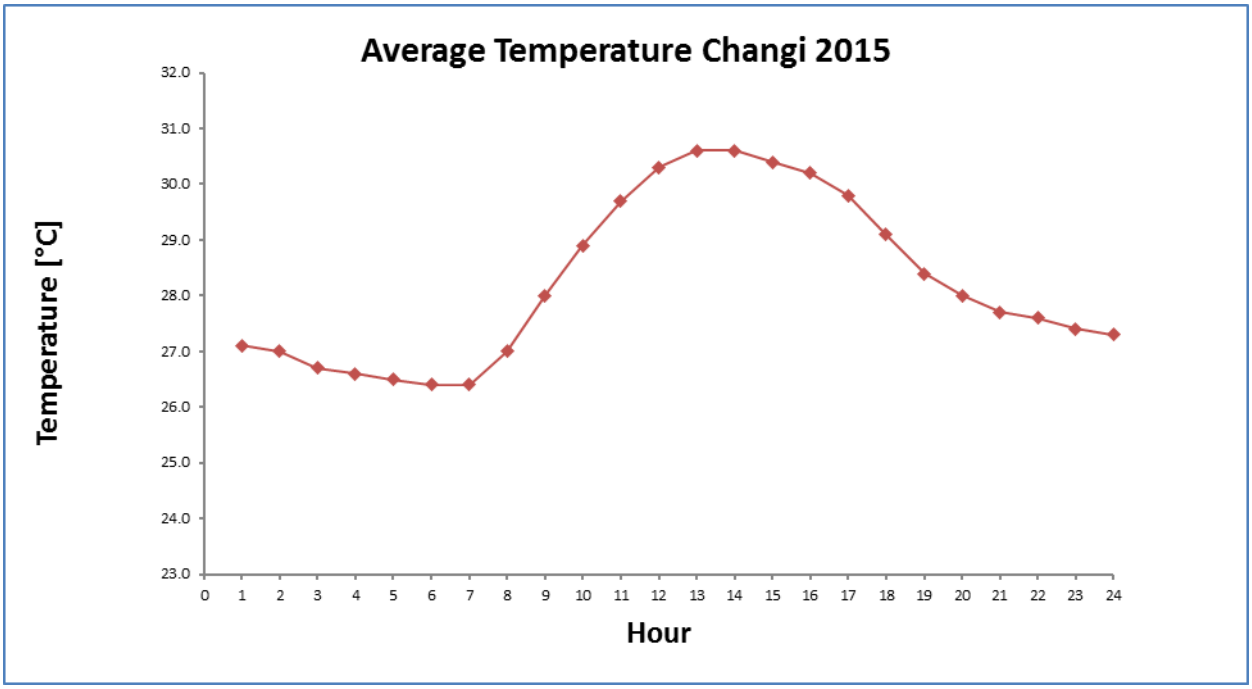
▪ No Data

— Defective Data

10.2. Hourly Observation

S24 Changi 2015

Hours	1	2	3	4	5	6	7	8	9	10	11	12
Min Dry Bulb Temperature (°C)	23.9	23.8	23.7	22.7	22.9	21.9	22.9	22.2	22.1	23.0	23.8	23.1
Max Dry Bulb Temperature (°C)	29.4	29.4	29.2	29.0	28.8	28.9	29.0	29.6	30.6	31.6	32.3	33.3
Average Dry Bulb Temperature (°C)	27.1	27.0	26.7	26.6	26.5	26.4	26.4	27.0	28.0	28.9	29.7	30.3
Average Dew Point Temperature (°C)	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.3	24.3	24.2	23.9	23.7
Average Relative Humidity (%)	82.9	83.7	84.6	85.6	86.1	86.5	86.7	84.8	79.4	74.8	70.2	66.9
Average Wind Speed (m/s)	2.2	2.1	1.9	1.8	1.8	1.8	1.8	2.0	2.6	3.1	3.3	3.4
Max Gust (m/s)	8.6	10.1	13.2	11.5	16.5	13.9	9.5	16.5	9.3	11.8	11.2	12.5
Rainfall (mm)	2.2	65.0	94.6	43.6	47.4	30.6	49.2	37.8	53.2	61.2	23.0	84.2

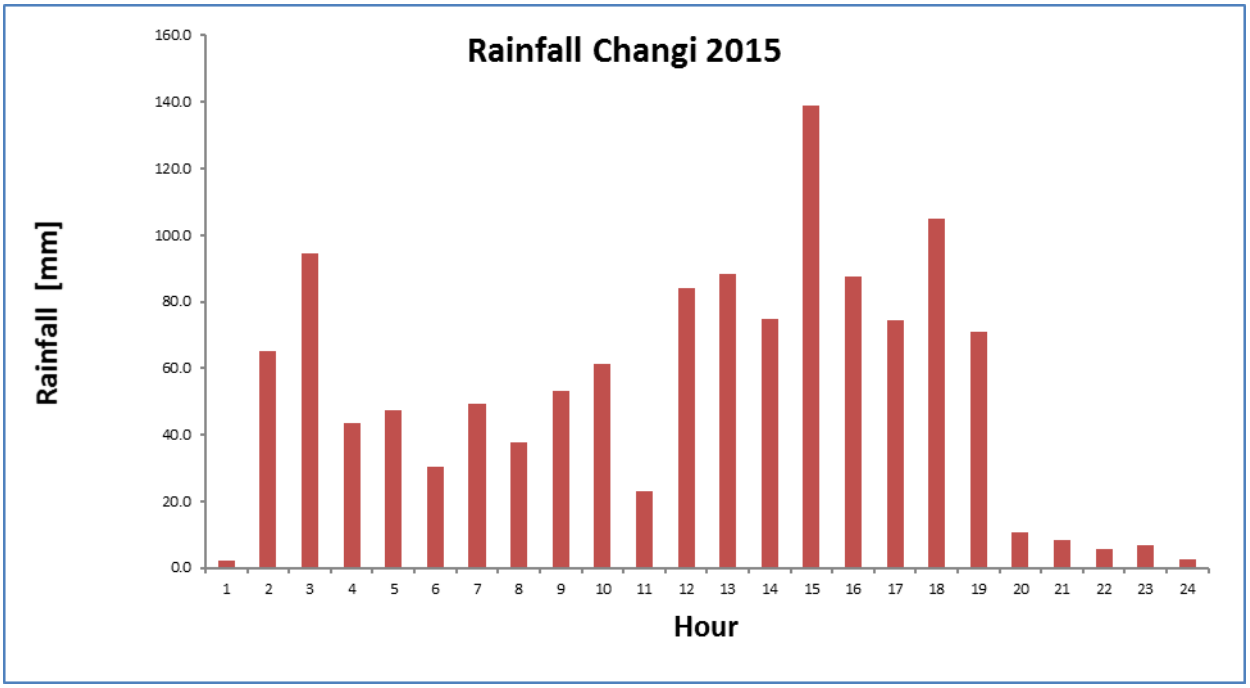


No Data

Defective Data

S24 Changi 2015

Hours	13	14	15	16	17	18	19	20	21	22	23	24
Min Dry Bulb Temperature (°C)	22.8	23.5	23.3	23.4	23.2	22.5	22.6	24.1	24.2	24.1	24.0	23.9
Max Dry Bulb Temperature (°C)	34.4	34.3	34.4	34.2	33.6	32.4	32.0	30.8	30.3	30.0	29.7	29.5
Average Dry Bulb Temperature (°C)	30.6	30.6	30.4	30.2	29.8	29.1	28.4	28.0	27.7	27.6	27.4	27.3
Average Dew Point Temperature (°C)	23.4	23.4	23.4	23.3	23.4	23.4	23.6	23.8	23.9	24.0	24.1	24.1
Average Relative Humidity (%)	64.8	64.7	65.5	66.0	67.5	70.3	74.4	77.1	79.0	80.3	81.3	82.1
Average Wind Speed (m/s)	3.6	3.7	4.0	4.0	3.9	3.6	3.3	2.9	2.6	2.5	2.4	2.3
Max Gust (m/s)	14.0	14.7	15.3	13.6	13.3	12.5	10.9	11.5	10.5	9.4	9.1	9.6
Rainfall (mm)	88.4	74.8	139.0	87.6	74.6	104.8	70.8	10.8	8.6	5.8	6.8	2.8

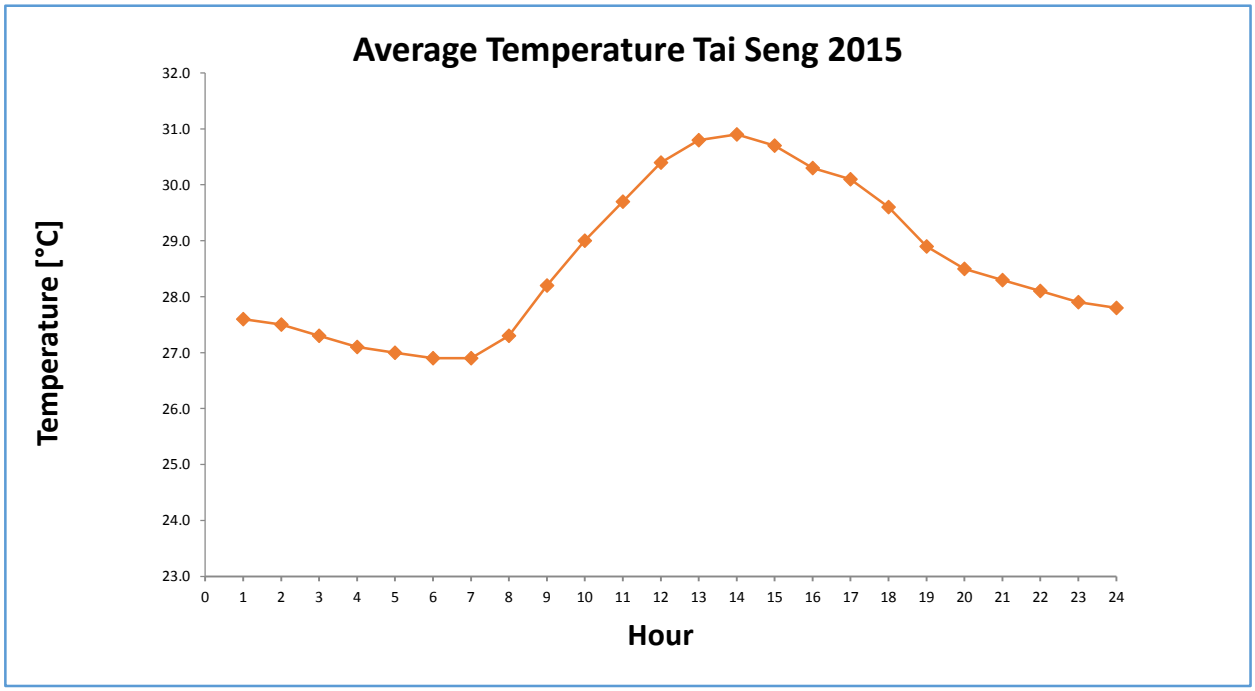


No Data

— Defective Data

S43 Tai Seng 2015

Hours	1	2	3	4	5	6	7	8	9	10	11	12
Min Dry Bulb Temperature (°C)	24.7	24.7	23.2	22.9	23.2	22.7	22.9	22.2	22.6	23.2	23.7	23.2
Max Dry Bulb Temperature (°C)	29.9	29.8	29.8	29.5	29.4	29.3	29.3	30.1	31.0	31.8	32.6	33.4
Average Dry Bulb Temperature (°C)	27.6	27.5	27.3	27.1	27.0	26.9	26.9	27.3	28.2	29.0	29.7	30.4
Average Dew Point Temperature (°C)	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.1	23.9	23.7	23.3	23.0
Average Relative Humidity (%)	80.9	81.7	82.7	83.4	83.9	84.3	84.6	82.8	78.3	73.3	68.8	65.1
Average Wind Speed (m/s)	1.6	1.6	1.6	1.5	1.5	1.5	1.5	1.7	2.2	2.5	2.6	2.7
Max Gust (m/s)	9.5	8.4	10.8	9.2	17.2	13.6	10.3	20.3	9.0	11.2	23.0	18.9
Rainfall (mm)	11.4	22.8	45.6	31.0	30.0	39.2	51.0	78.2	35.6	39.6	95.6	170.8

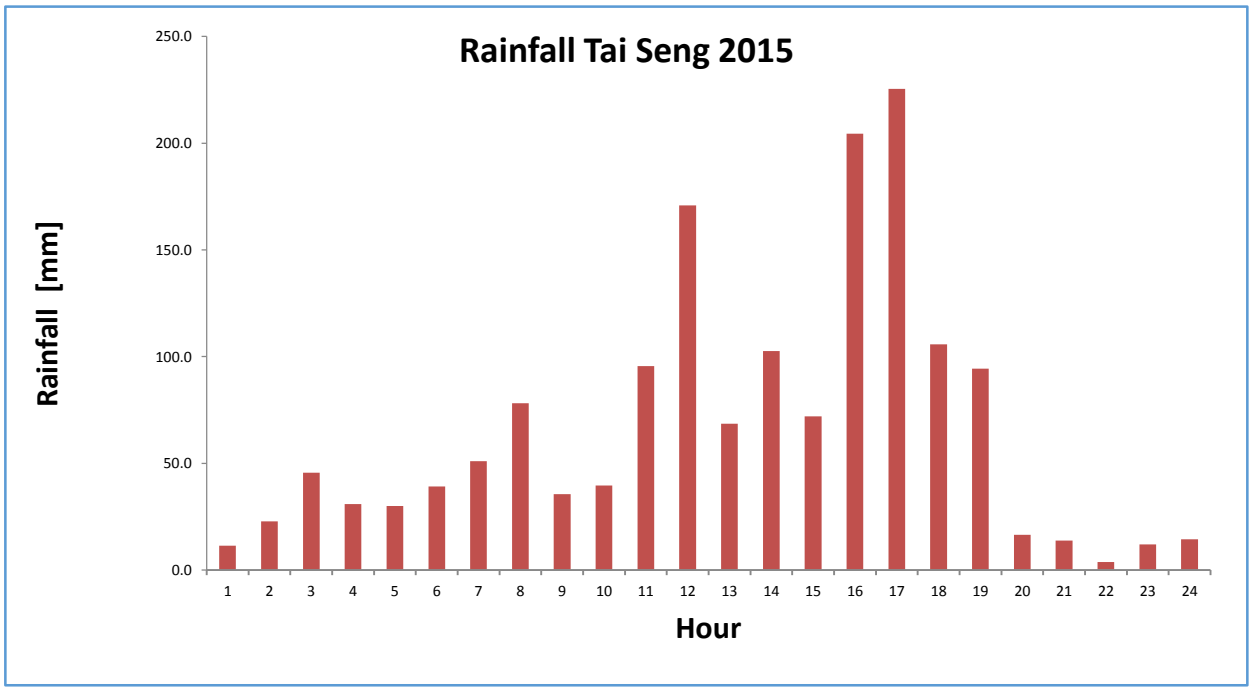


No Data

— Defective Data

S43 Tai Seng 2015

Hours	13	14	15	16	17	18	19	20	21	22	23	24
Min Dry Bulb Temperature (°C)	23.9	23.7	23.9	23.7	23.4	22.0	23.0	24.2	24.6	24.7	24.9	24.8
Max Dry Bulb Temperature (°C)	34.0	34.6	34.9	34.2	33.8	33.3	32.6	31.5	30.9	30.4	30.1	30.0
Average Dry Bulb Temperature (°C)	30.8	30.9	30.7	30.3	30.1	29.6	28.9	28.5	28.3	28.1	27.9	27.8
Average Dew Point Temperature (°C)	22.8	22.6	22.7	22.8	22.8	22.9	23.1	23.4	23.7	23.9	23.9	24.0
Average Relative Humidity (%)	63.2	62.4	63.5	65.0	66.1	68.1	71.3	74.3	76.8	78.1	79.0	80.0
Average Wind Speed (m/s)	2.8	2.9	3.0	2.9	2.9	2.7	2.5	2.3	2.1	1.9	1.8	1.7
Max Gust (m/s)	13.3	12.6	11.9	12.1	12.9	11.8	11.6	10.1	9.9	18.1	17.7	7.7
Rainfall (mm)	68.6	102.6	72.0	204.4	225.4	105.8	94.4	16.6	13.8	3.8	12.0	14.4

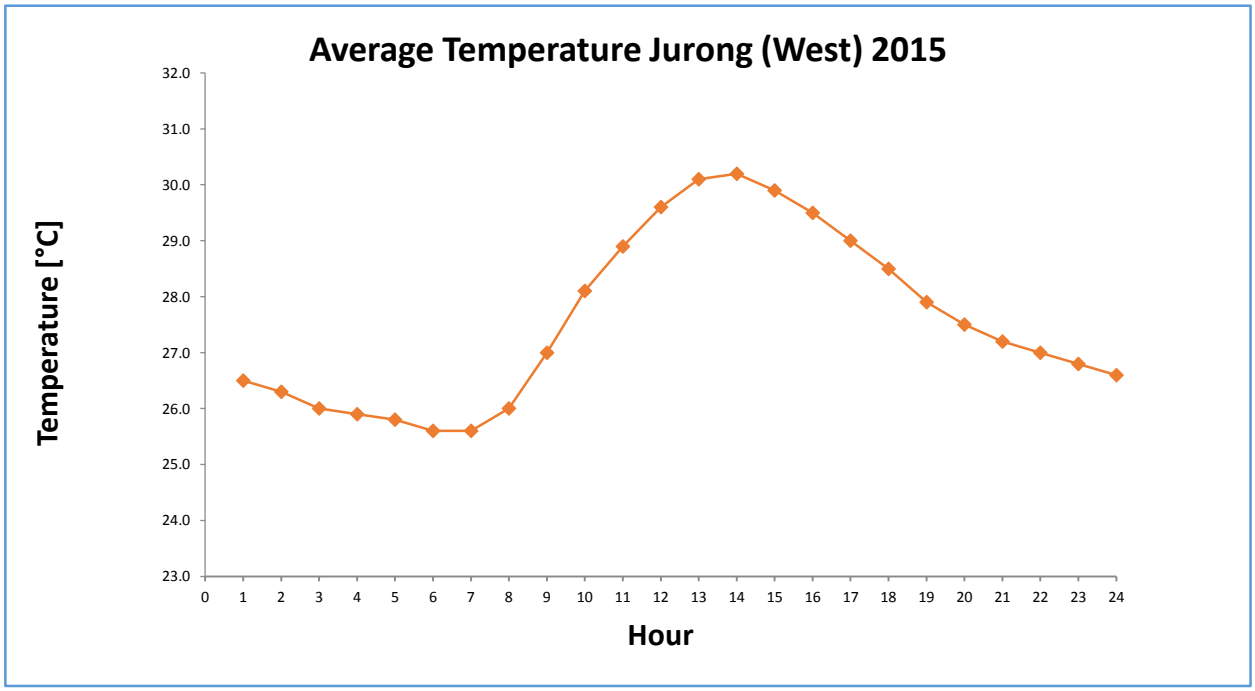


No Data

Defective Data

S44 Jurong (West) 2015

Hours	1	2	3	4	5	6	7	8	9	10	11	12
Min Dry Bulb Temperature (°C)	23.8	23.7	21.7	22.2	22.3	22.1	21.6	21.7	22.3	22.7	22.6	23.6
Max Dry Bulb Temperature (°C)	29.0	29.1	28.7	28.6	28.7	28.4	28.6	28.8	29.7	31.0	32.4	33.2
Average Dry Bulb Temperature (°C)	26.5	26.3	26.0	25.9	25.8	25.6	25.6	26.0	27.0	28.1	28.9	29.6
Average Dew Point Temperature (°C)	23.6	23.6	23.7	23.7	23.7	23.7	23.7	23.9	23.8	23.3	22.7	22.4
Average Relative Humidity (%)	84.4	85.8	87.2	88.0	88.4	89.2	89.5	88.3	83.0	75.6	69.8	66.0
Average Wind Speed (m/s)	1.7	1.6	1.6	1.6	1.6	1.6	1.6	1.7	2.0	2.5	2.6	2.5
Max Gust (m/s)	9.9	11.7	19.7	12.9	9.7	14.1	16.7	17.1	11.8	14.2	11.5	15.7
Rainfall (mm)	24.8	42.8	54.6	99.4	41.2	78.4	80.2	33.6	63.8	68.6	183.6	81.8

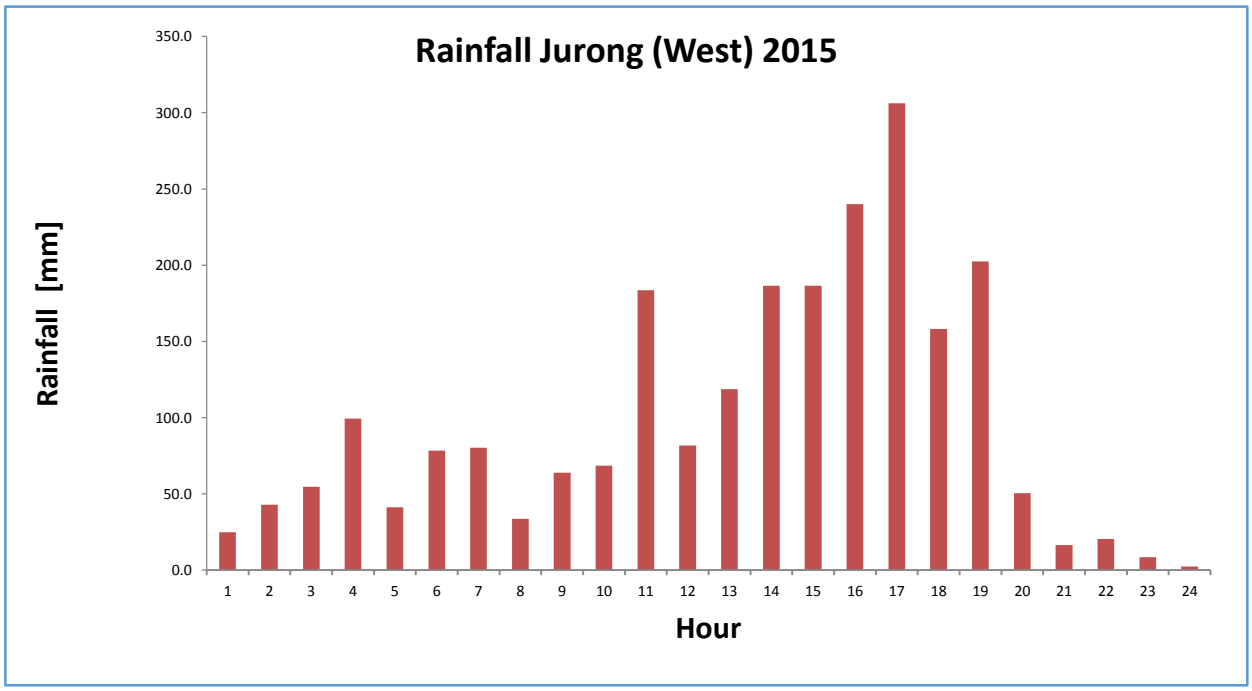


No Data

— Defective Data

S44 Jurong (West) 2015

Hours	13	14	15	16	17	18	19	20	21	22	23	24
Min Dry Bulb Temperature (°C)	22.9	23.0	22.4	22.6	21.7	22.5	22.6	23.2	23.4	23.9	23.8	23.8
Max Dry Bulb Temperature (°C)	33.9	34.0	34.7	33.5	33.3	32.9	31.8	30.9	30.3	29.9	29.5	29.4
Average Dry Bulb Temperature (°C)	30.1	30.2	29.9	29.5	29.0	28.5	27.9	27.5	27.2	27.0	26.8	26.6
Average Dew Point Temperature (°C)	22.0	21.9	21.9	22.2	22.2	22.5	22.8	22.9	23.1	23.4	23.4	23.5
Average Relative Humidity (%)	63.1	62.4	63.6	66.3	68.2	71.3	74.5	76.3	78.6	80.8	82.0	83.0
Average Wind Speed (m/s)	2.6	2.6	2.7	2.6	2.5	2.4	2.1	2.0	2.0	2.0	1.8	1.7
Max Gust (m/s)	14.4	14.5	12.6	11.7	17.7	13.4	14.2	9.9	9.9	10.1	8.8	8.8
Rainfall (mm)	118.6	186.4	186.4	240.0	306.2	158.2	202.4	50.4	16.4	20.4	8.4	2.4

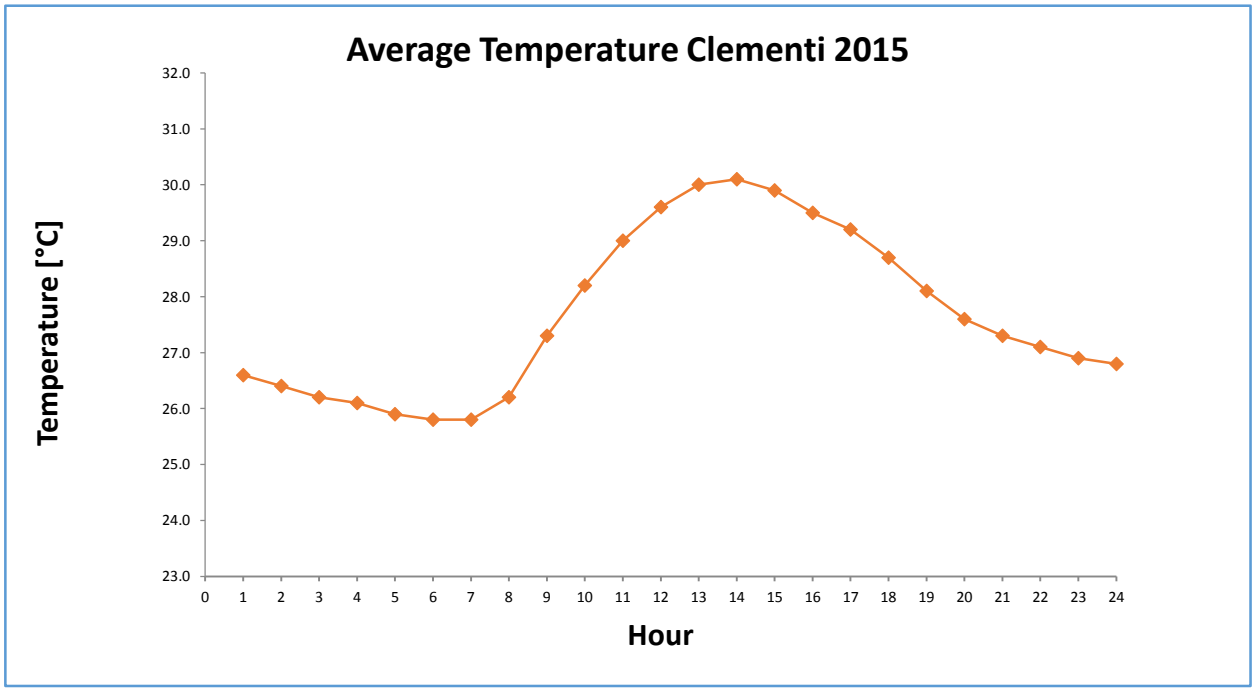


No Data

— Defective Data

S50 Clementi 2015

Hours	1	2	3	4	5	6	7	8	9	10	11	12
Min Dry Bulb Temperature (°C)	24.0	23.8	22.3	22.1	22.4	21.6	21.9	22.3	22.7	23.0	23.1	23.2
Max Dry Bulb Temperature (°C)	28.7	28.7	28.4	28.4	28.3	28.2	28.1	28.5	29.6	30.9	32.1	33.4
Average Dry Bulb Temperature (°C)	26.6	26.4	26.2	26.1	25.9	25.8	25.8	26.2	27.3	28.2	29.0	29.6
Average Dew Point Temperature (°C)	23.8	23.8	23.8	23.8	23.8	23.7	23.7	23.9	24.0	23.8	23.6	23.5
Average Relative Humidity (%)	85.0	85.9	86.7	87.3	87.9	88.3	88.6	87.0	82.2	77.1	73.0	69.9
Average Wind Speed (m/s)	1.2	1.3	1.3	1.3	1.3	1.2	1.2	1.2	1.5	1.8	1.9	1.9
Max Gust (m/s)	9.1	9.5	10.0	11.2	16.0	12.8	10.0	11.4	9.8	11.2	12.8	12.0
Rainfall (mm)	8.0	44.0	56.4	92.6	65.8	46.6	44.6	38.4	47.8	51.2	94.0	91.2

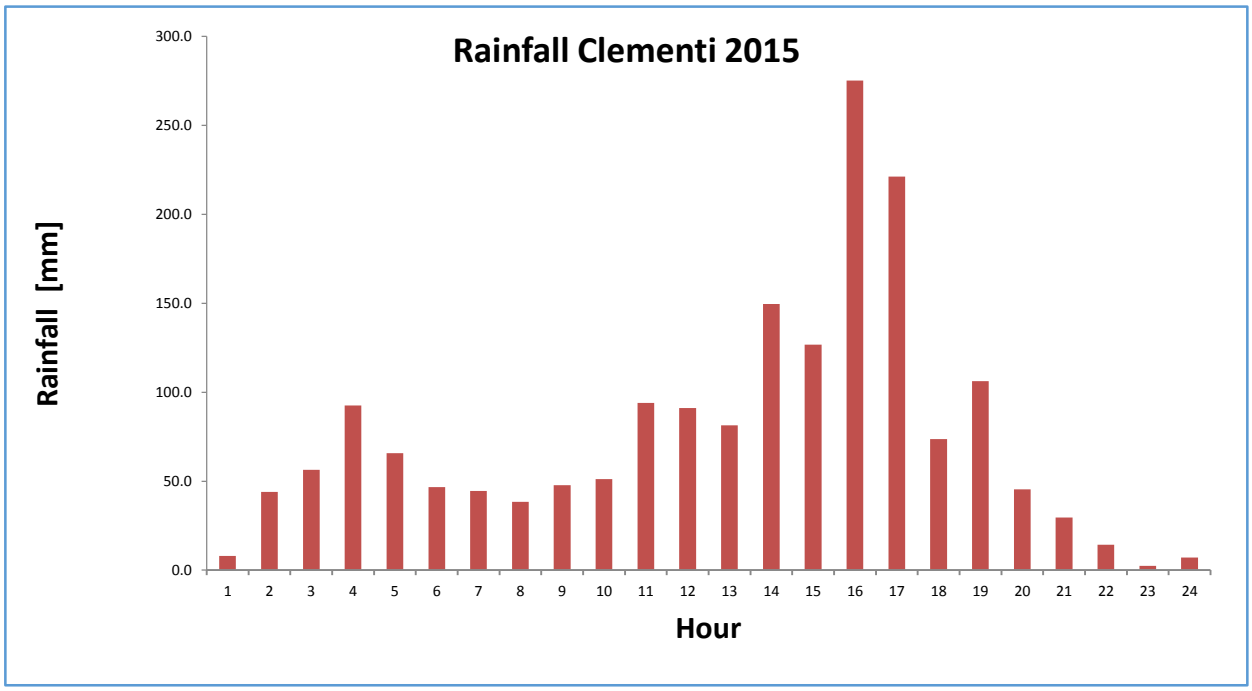


No Data

— Defective Data

S50 Clementi 2015

Hours	13	14	15	16	17	18	19	20	21	22	23	24
Min Dry Bulb Temperature (°C)	23.6	23.1	22.4	22.4	22.3	22.5	22.5	22.9	23.2	24.1	24.2	24.1
Max Dry Bulb Temperature (°C)	33.9	34.3	34.8	34.1	33.4	32.7	31.5	30.7	29.8	29.5	29.2	29.0
Average Dry Bulb Temperature (°C)	30.0	30.1	29.9	29.5	29.2	28.7	28.1	27.6	27.3	27.1	26.9	26.8
Average Dew Point Temperature (°C)	23.3	23.3	23.4	23.4	23.4	23.4	23.4	23.5	23.7	23.8	23.8	23.9
Average Relative Humidity (%)	67.9	68.1	68.9	70.5	71.8	73.9	76.3	78.9	80.8	82.3	83.2	84.1
Average Wind Speed (m/s)	2.0	2.1	2.2	2.2	2.0	1.9	1.8	1.7	1.6	1.4	1.3	1.3
Max Gust (m/s)	15.3	12.8	11.9	12.9	12.7	12.5	11.4	11.1	10.0	9.4	8.3	8.3
Rainfall (mm)	81.4	149.6	126.8	275.2	221.2	73.6	106.2	45.4	29.6	14.2	2.4	7.0

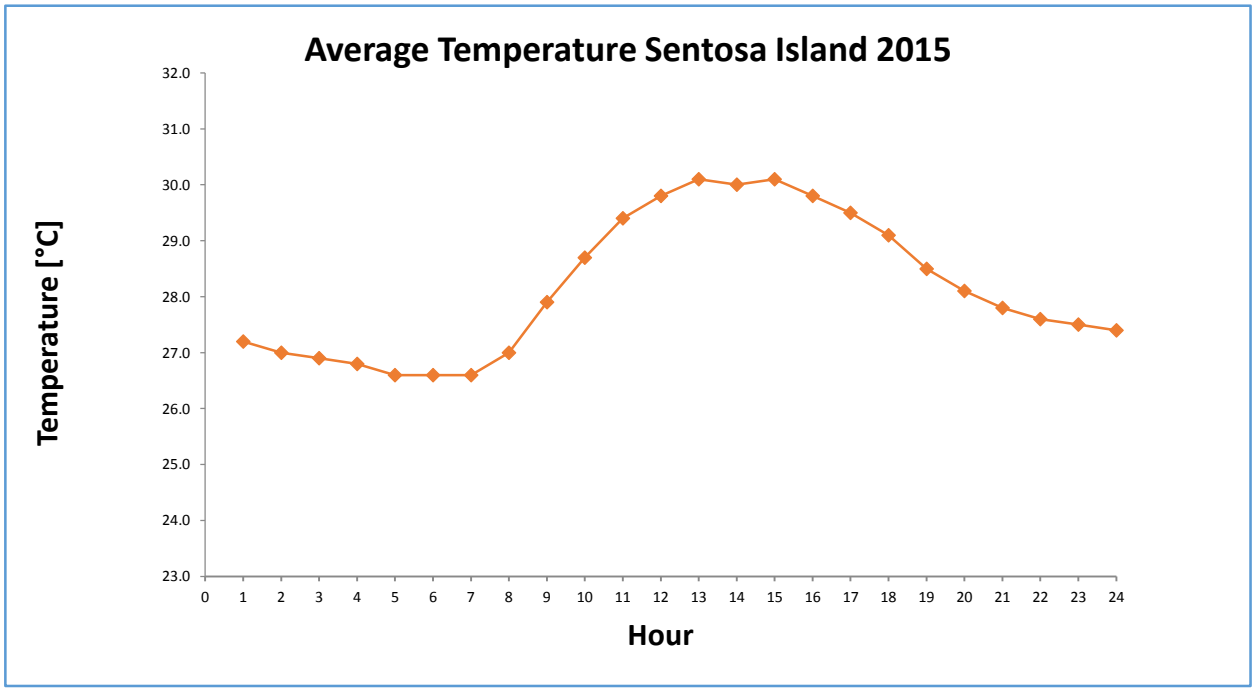


No Data

Defective Data

S60 Sentosa Island 2015

Hours	1	2	3	4	5	6	7	8	9	10	11	12
Min Dry Bulb Temperature (°C)	24.3	23.4	22.6	22.6	22.4	22.5	22.8	22.4	22.6	23.5	23.9	24.0
Max Dry Bulb Temperature (°C)	29.4	29.1	28.6	28.5	28.9	28.5	28.6	28.9	30.8	32.0	32.8	33.7
Average Dry Bulb Temperature (°C)	27.2	27.0	26.9	26.8	26.6	26.6	26.6	27.0	27.9	28.7	29.4	29.8
Average Dew Point Temperature (°C)	23.7	23.8	23.9	23.9	23.9	24.0	24.0	24.0	23.5	23.0	22.6	22.2
Average Relative Humidity (%)	81.4	82.8	83.9	84.6	85.3	85.9	86.0	83.6	77.7	71.8	67.4	64.4
Average Wind Speed (m/s)	1.8	1.8	1.7	1.7	1.7	1.7	1.7	1.8	2.1	2.4	2.4	2.5
Max Gust (m/s)	9.9	11.3	13.0	10.5	18.7	11.3	10.0	10.4	9.4	10.0	10.2	16.7
Rainfall (mm)	21.4	70.2	40.8	31.8	29.0	83.4	99.8	75.8	50.4	35.2	37.8	60.6

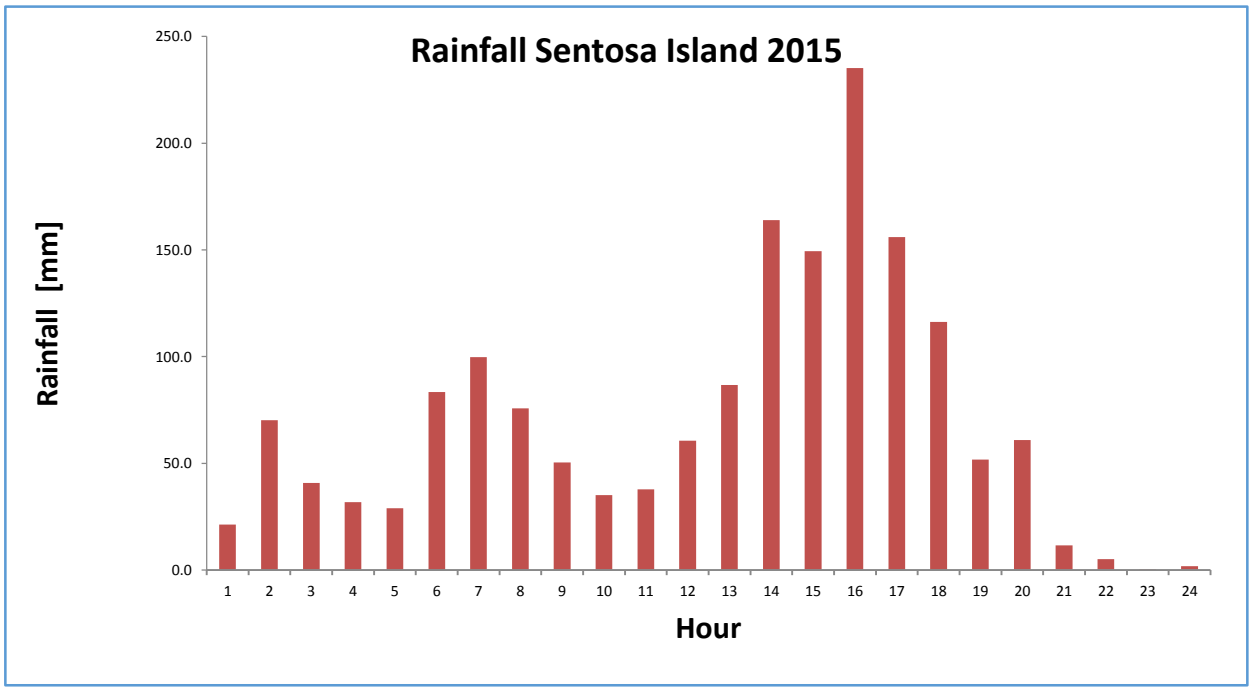


No Data

— Defective Data

S60 Sentosa Island 2015

Hours	13	14	15	16	17	18	19	20	21	22	23	24
Min Dry Bulb Temperature (°C)	22.4	23.4	23.6	22.3	22.3	22.6	23.2	22.3	22.9	24.6	24.7	24.6
Max Dry Bulb Temperature (°C)	34.0	34.1	33.8	33.7	33.8	32.9	32.4	31.0	30.2	29.6	29.3	29.2
Average Dry Bulb Temperature (°C)	30.1	30.0	30.1	29.8	29.5	29.1	28.5	28.1	27.8	27.6	27.5	27.4
Average Dew Point Temperature (°C)	22.1	22.1	22.1	22.1	22.1	22.2	22.5	22.8	23.1	23.3	23.5	23.6
Average Relative Humidity (%)	63.4	63.7	63.4	64.3	65.4	67.5	70.7	73.6	76.1	77.7	79.0	80.1
Average Wind Speed (m/s)	2.6	2.7	2.7	2.6	2.4	2.3	2.1	2.0	1.9	1.9	1.8	1.8
Max Gust (m/s)	13.6	11.6	11.2	11.8	11.5	11.2	10.9	10.4	9.8	9.5	9.4	10.0
Rainfall (mm)	86.8	164.0	149.4	235.2	156.0	116.2	51.8	61.0	11.6	5.2	0.4	1.8

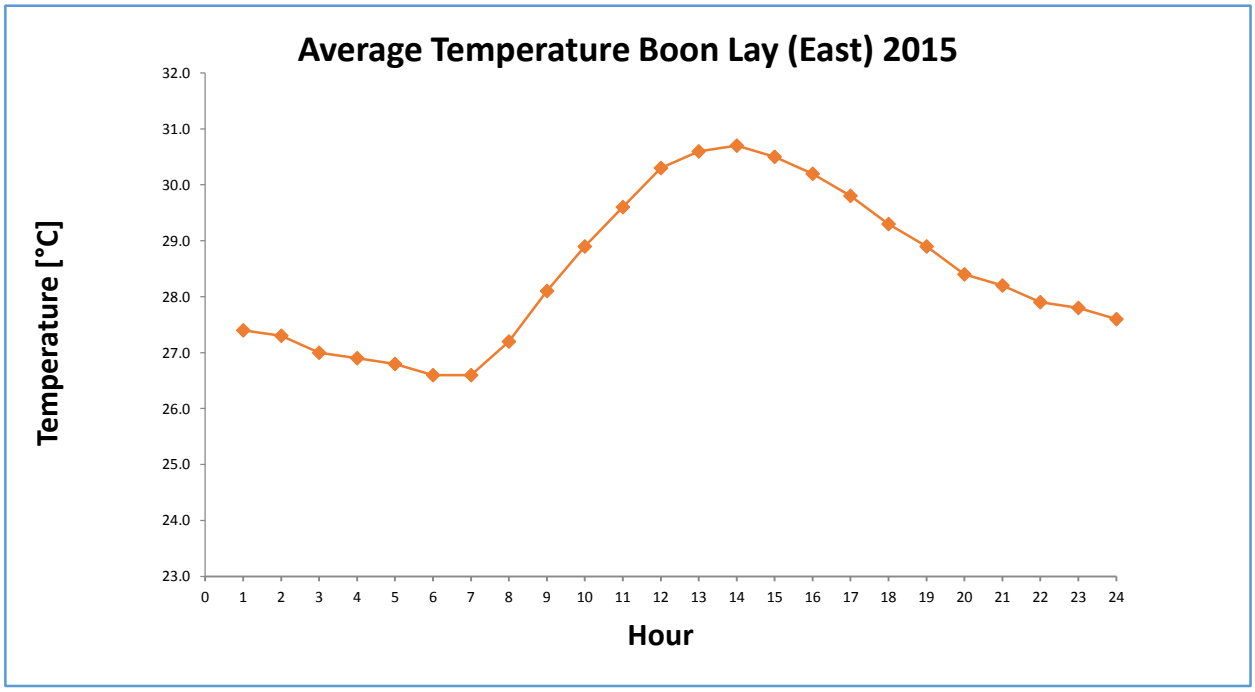


No Data

Defective Data

S86 Boon Lay (East) 2015

Hours	1	2	3	4	5	6	7	8	9	10	11	12
Min Dry Bulb Temperature (°C)	24.0	24.0	22.5	22.5	23.0	22.7	22.3	22.2	23.0	23.3	22.6	23.3
Max Dry Bulb Temperature (°C)	29.7	29.6	29.3	29.1	29.1	29.0	29.2	30.2	31.1	32.1	33.2	33.8
Average Dry Bulb Temperature (°C)	27.4	27.3	27.0	26.9	26.8	26.6	26.6	27.2	28.1	28.9	29.6	30.3
Average Dew Point Temperature (°C)	24.4	24.4	24.5	24.5	24.5	24.5	24.5	24.6	24.4	23.8	23.4	22.9
Average Relative Humidity (%)	83.7	85.0	86.2	87.1	87.8	88.4	88.7	85.9	80.4	74.4	69.8	65.6
Average Wind Speed (m/s)	1.4	1.4	1.4	1.3	1.3	1.3	1.3	1.4	1.7	2.2	2.4	2.6
Max Gust (m/s)	11.6	12.1	14.6	10.8	9.5	11.2	12.6	16.2	19.8	19.0	12.1	17.9
Rainfall (mm)	11.8	55.4	52.4	93.4	29.8	49.4	69.0	47.4	69.0	79.2	93.0	79.4

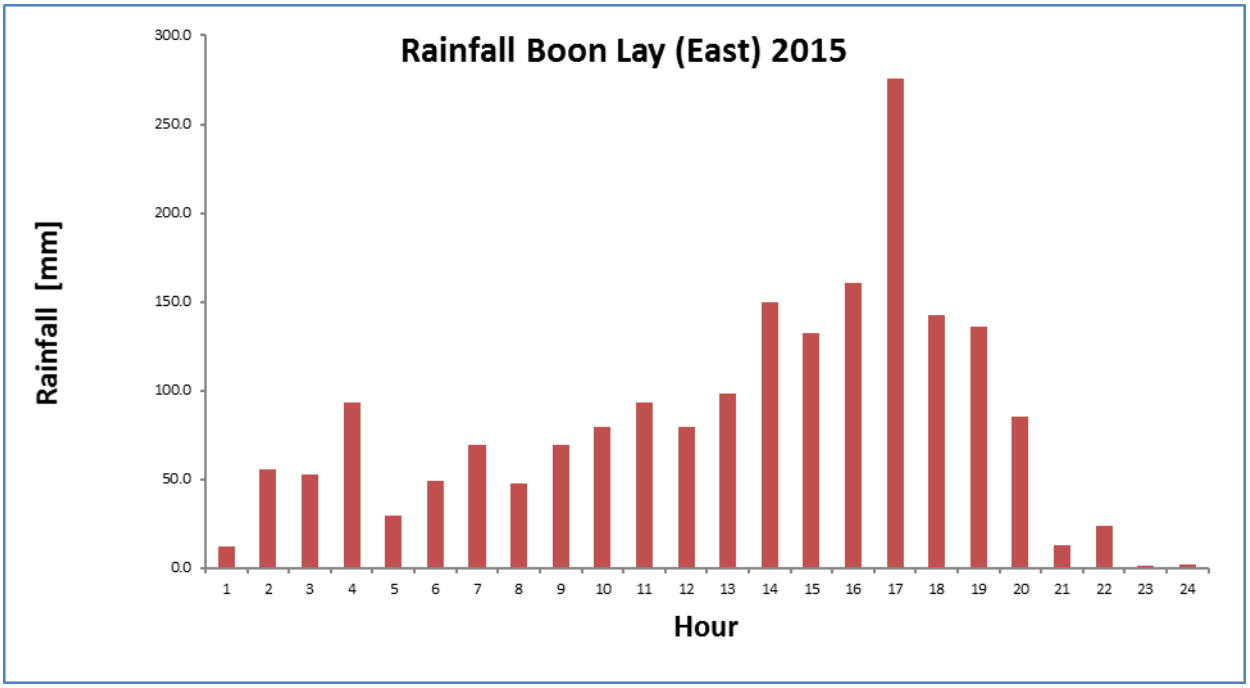


No Data

— Defective Data

S86 Boon Lay (East) 2015

Hours	13	14	15	16	17	18	19	20	21	22	23	24
Min Dry Bulb Temperature (°C)	23.9	23.5	21.9	23.1	22.8	22.6	23.4	23.5	24.3	24.5	24.3	24.0
Max Dry Bulb Temperature (°C)	34.7	34.6	35.2	34.5	34.2	33.6	32.5	31.7	31.2	30.9	30.4	30.1
Average Dry Bulb Temperature (°C)	30.6	30.7	30.5	30.2	29.8	29.3	28.9	28.4	28.2	27.9	27.8	27.6
Average Dew Point Temperature (°C)	22.7	22.7	22.7	22.8	22.9	23.1	23.3	23.4	23.7	24.0	24.1	24.3
Average Relative Humidity (%)	63.6	63.5	64.2	66.1	67.9	70.2	72.8	75.1	77.3	79.6	81.1	82.4
Average Wind Speed (m/s)	2.8	2.9	2.9	2.8	2.7	2.4	2.1	2.0	1.8	1.6	1.5	1.4
Max Gust (m/s)	12.6	16.4	14.1	13.8	22.3	14.3	14.2	10.9	10.1	21.4	8.7	8.7
Rainfall (mm)	98.6	149.8	132.0	160.8	275.6	142.4	136.2	85.2	12.6	23.8	1.4	2.0

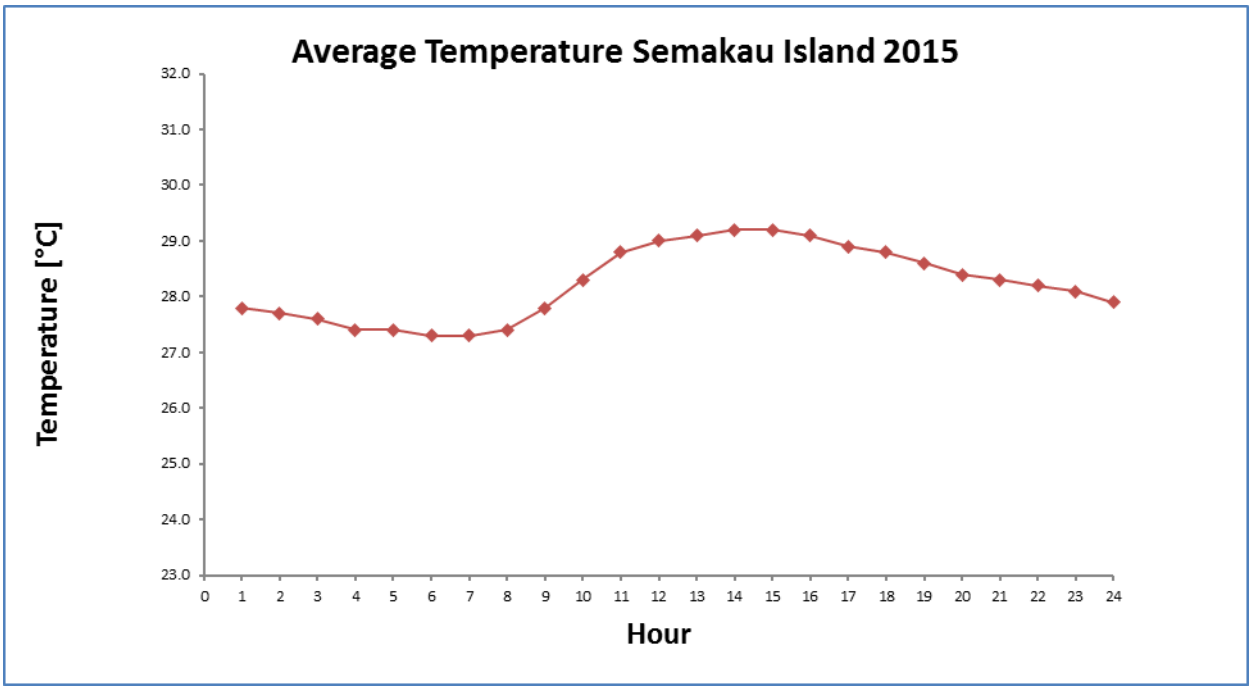


No Data

— Defective Data

S102 Semakau Island 2015

Hours	1	2	3	4	5	6	7	8	9	10	11	12
Min Dry Bulb Temperature (°C)	24.8	23.9	23.7	23.3	23.1	22.8	23.2	22.9	23.7	23.6	24.1	24.1
Max Dry Bulb Temperature (°C)	29.7	29.6	29.4	29.4	29.3	29.4	29.4	29.4	30.1	31.2	32.2	33.6
Average Dry Bulb Temperature (°C)	27.8	27.7	27.6	27.4	27.4	27.3	27.3	27.4	27.8	28.3	28.8	29.0
Average Dew Point Temperature (°C)	23.9	23.9	23.9	23.9	23.8	23.9	23.8	23.8	23.7	23.6	23.3	23.3
Average Relative Humidity (%)	79.2	80.0	80.5	80.9	81.2	81.5	81.6	80.9	78.9	75.7	72.7	71.7
Average Wind Speed (m/s)	4.4	4.4	4.4	4.3	4.3	4.2	4.2	4.4	4.5	4.6	4.5	4.7
Max Gust (m/s)	17.9	20.2	16.5	18.3	18.0	17.6	21.0	22.2	20.1	13.6	13.3	18.9
Rainfall (mm)	17.0	58.5	51.2	41.0	19.2	83.4	77.4	75.7	60.9	43.9	38.5	78.1

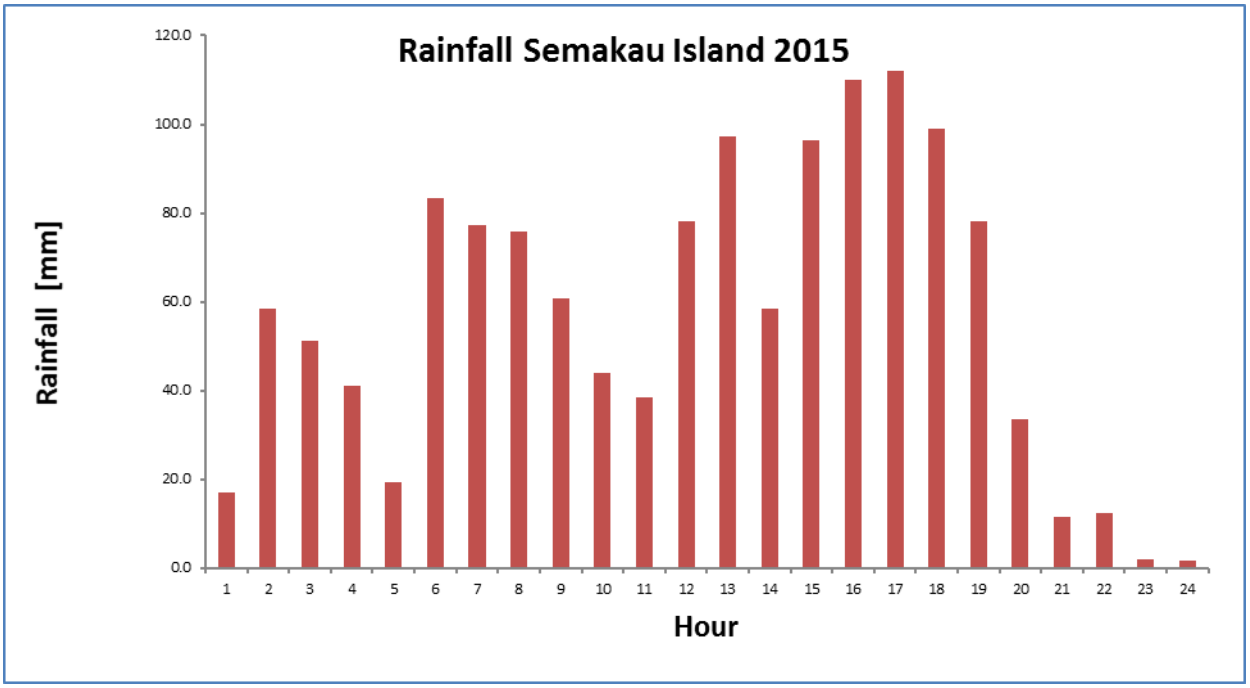


No Data

— Defective Data

S102 Semakau Island 2015

Hours	13	14	15	16	17	18	19	20	21	22	23	24
Min Dry Bulb Temperature (°C)	23.6	24.4	23.6	23.0	22.9	22.7	22.9	24.3	24.2	24.9	25.0	24.9
Max Dry Bulb Temperature (°C)	32.9	32.8	32.3	32.8	32.5	32.0	31.2	30.8	30.6	30.0	29.8	29.6
Average Dry Bulb Temperature (°C)	29.1	29.2	29.2	29.1	28.9	28.8	28.6	28.4	28.3	28.2	28.1	27.9
Average Dew Point Temperature (°C)	23.3	23.4	23.4	23.3	23.4	23.4	23.5	23.6	23.7	23.7	23.8	23.8
Average Relative Humidity (%)	71.3	71.2	71.4	71.7	72.4	73.0	74.1	75.2	76.2	77.1	77.7	78.4
Average Wind Speed (m/s)	4.9	5.2	5.3	5.5	5.5	5.5	5.4	5.2	5.0	4.8	4.5	4.4
Max Gust (m/s)	21.3	25.8	22.2	21.3	17.5	16.4	18.4	17.5	15.0	14.3	16.1	14.8
Rainfall (mm)	97.2	58.5	96.5	110.0	112.0	98.9	78.2	33.5	11.6	12.4	2.0	1.8

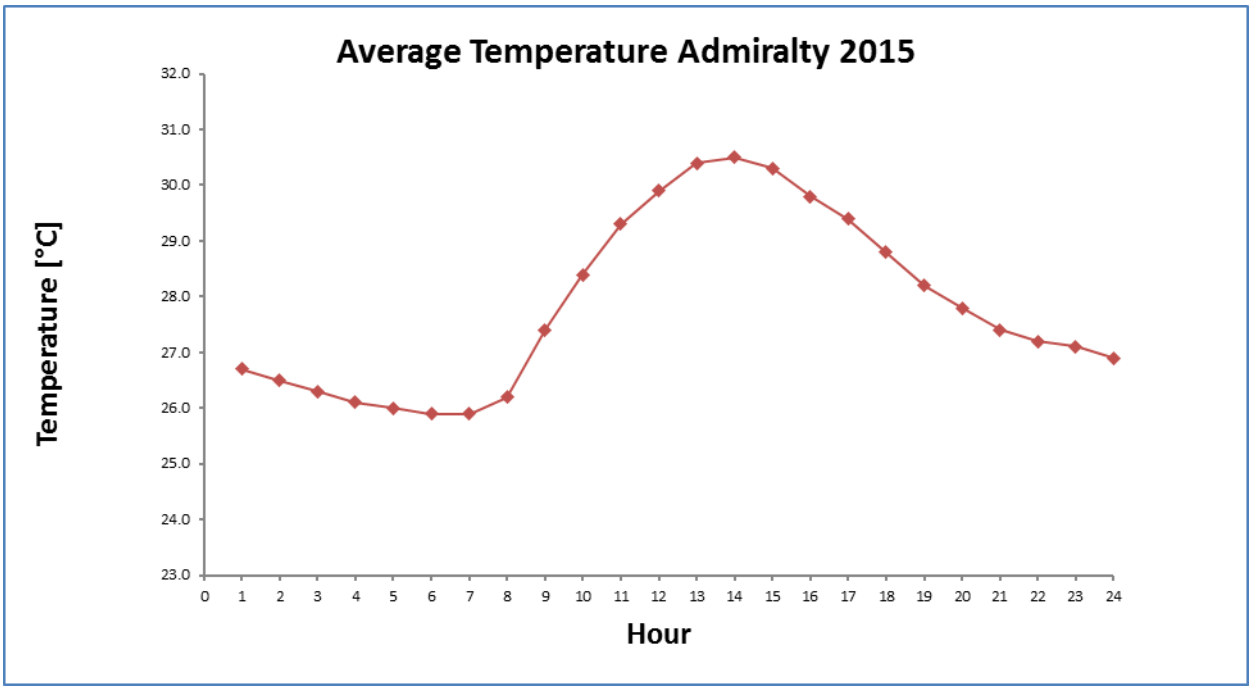


No Data

— Defective Data

S104 Admiralty 2015

Hours	1	2	3	4	5	6	7	8	9	10	11	12
Min Dry Bulb Temperature (°C)	23.6	22.2	22.3	22.6	23.1	22.2	22.5	22.7	22.9	23.3	23.4	23.8
Max Dry Bulb Temperature (°C)	29.2	29.0	28.9	28.6	28.6	28.5	28.3	28.8	30.4	31.3	32.3	33.3
Average Dry Bulb Temperature (°C)	26.7	26.5	26.3	26.1	26.0	25.9	25.9	26.2	27.4	28.4	29.3	29.9
Average Dew Point Temperature (°C)	25.6	25.6	25.5	25.5	25.4	25.4	25.4	25.5	25.7	25.3	24.7	24.2
Average Relative Humidity (%)	93.7	94.9	95.5	96.2	96.7	97.0	97.2	96.1	90.7	83.9	77.1	72.2
Average Wind Speed (m/s)	2.0	2.0	1.9	1.9	1.8	1.8	1.8	1.7	2.0	2.5	2.7	2.6
Max Gust (m/s)	8.9	15.3	17.6	12.5	9.6	15.5	11.9	15.0	9.5	11.8	13.1	14.0
Rainfall (mm)	9.2	69.6	70.4	34.8	21.2	39.2	28.6	44.2	11.4	22.2	46.0	90.8

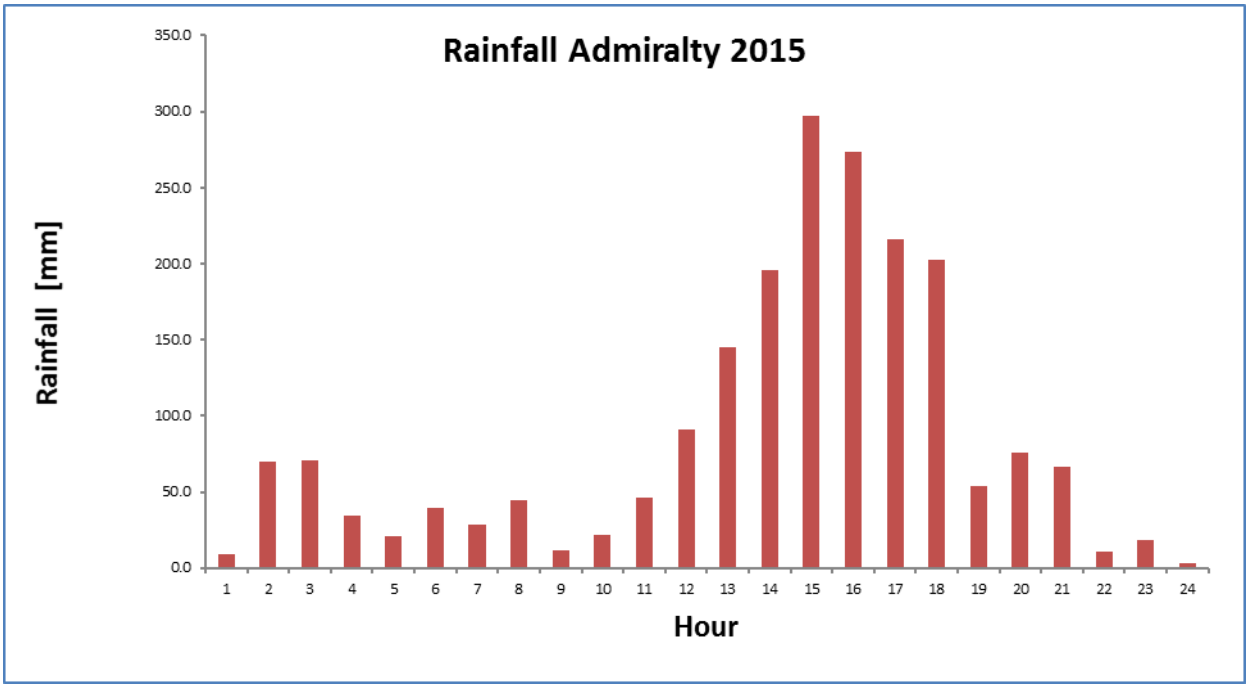


No Data

— Defective Data

S104 Admiralty 2015

Hours	13	14	15	16	17	18	19	20	21	22	23	24
Min Dry Bulb Temperature (°C)	23.1	22.5	22.6	22.3	23.1	22.4	23.2	23.9	21.7	23.8	23.8	23.7
Max Dry Bulb Temperature (°C)	34.0	34.9	35.1	35.0	33.9	33.2	32.1	31.1	30.5	30.0	29.7	29.5
Average Dry Bulb Temperature (°C)	30.4	30.5	30.3	29.8	29.4	28.8	28.2	27.8	27.4	27.2	27.1	26.9
Average Dew Point Temperature (°C)	23.9	23.6	23.6	23.8	24.0	24.2	24.5	24.8	25.1	25.4	25.5	25.6
Average Relative Humidity (%)	69.2	68.0	68.9	71.7	74.4	77.5	81.5	84.8	88.0	90.2	91.6	92.8
Average Wind Speed (m/s)	2.7	2.8	3.0	3.1	3.1	3.0	2.8	2.6	2.4	2.3	2.2	2.1
Max Gust (m/s)	14.7	15.7	14.1	17.6	16.0	16.1	13.2	11.7	12.6	10.5	9.6	9.4
Rainfall (mm)	144.8	196.2	296.8	273.4	215.8	202.6	54.0	76.2	66.4	11.0	18.8	3.2

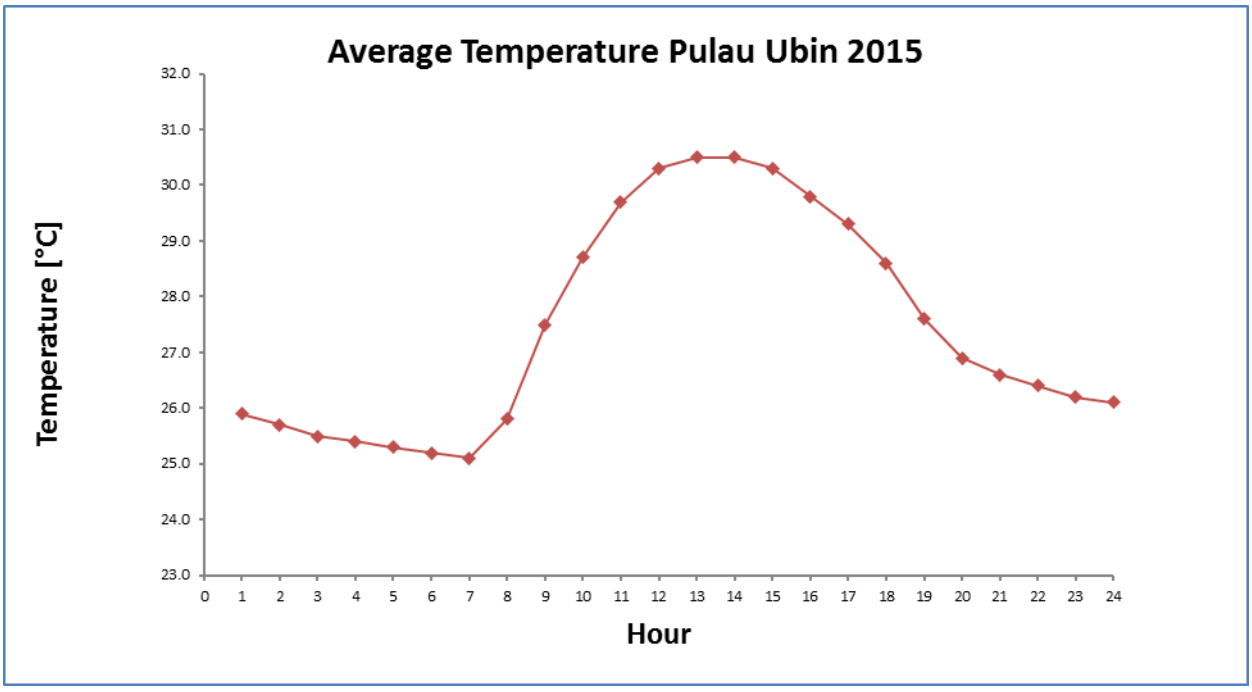


No Data

Defective Data

S106 Pulau Ubin 2015

Hours	1	2	3	4	5	6	7	8	9	10	11	12
Min Dry Bulb Temperature (°C)	23.2	23.0	22.9	22.4	22.3	21.6	21.9	22.0	22.2	22.7	23.2	22.5
Max Dry Bulb Temperature (°C)	28.4	28.2	28.0	27.9	27.9	27.9	27.7	28.4	30.4	32.1	32.7	33.8
Average Dry Bulb Temperature (°C)	25.9	25.7	25.5	25.4	25.3	25.2	25.1	25.8	27.5	28.7	29.7	30.3
Average Dew Point Temperature (°C)	25.2	25.2	25.1	25.1	25.0	24.9	24.9	25.4	25.7	25.5	25.3	25.1
Average Relative Humidity (%)	96.3	97.0	97.6	98.1	98.3	98.5	98.7	97.7	90.3	82.9	77.6	74.5
Average Wind Speed (m/s)	2.2	2.2	2.3	2.3	2.3	2.4	2.3	2.2	2.1	2.2	2.3	2.3
Max Gust (m/s)	7.2	12.2	13.1	12.5	11.4	9.6	9.9	14.6	11.6	9.6	13.2	10.2
Rainfall (mm)	4.8	27.2	102.0	47.0	33.8	52.4	24.8	23.8	17.4	77.0	25.2	71.6

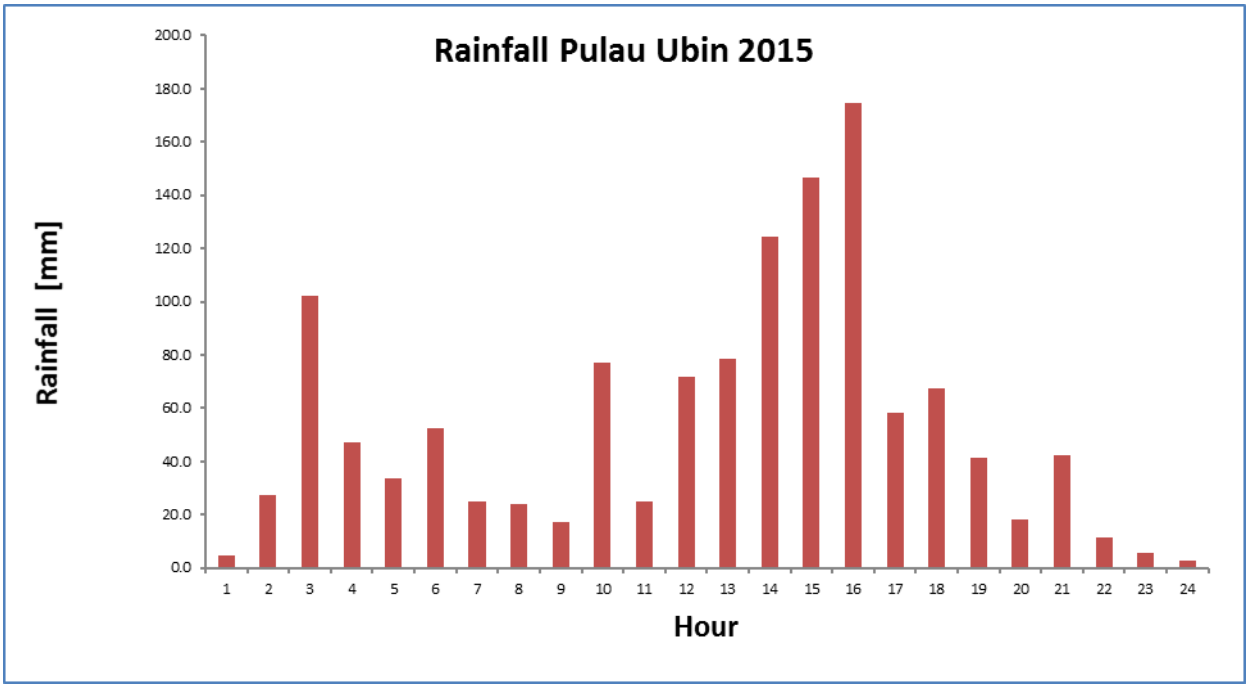


No Data

— Defective Data

S106 Pulau Ubin 2015

Hours	13	14	15	16	17	18	19	20	21	22	23	24
Min Dry Bulb Temperature (°C)	22.5	23.1	22.8	22.5	22.7	22.5	23.1	23.4	23.5	23.5	23.2	23.2
Max Dry Bulb Temperature (°C)	34.4	34.8	35.2	35.0	33.7	33.4	32.0	30.1	29.3	29.1	28.8	28.6
Average Dry Bulb Temperature (°C)	30.5	30.5	30.3	29.8	29.3	28.6	27.6	26.9	26.6	26.4	26.2	26.1
Average Dew Point Temperature (°C)	24.9	24.8	24.9	24.8	24.8	24.8	24.8	24.9	25.1	25.2	25.2	25.3
Average Relative Humidity (%)	72.6	72.7	73.6	75.2	77.4	80.6	85.4	89.1	91.6	93.2	94.5	95.5
Average Wind Speed (m/s)	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2.2	2.1	2.1	2.2
Max Gust (m/s)	10.9	13.4	10.1	13.4	10.8	13.5	11.2	9.9	9.7	20.2	7.2	10.6
Rainfall (mm)	78.6	124.6	146.4	174.8	58.4	67.4	41.2	18.0	42.6	11.4	5.8	2.8

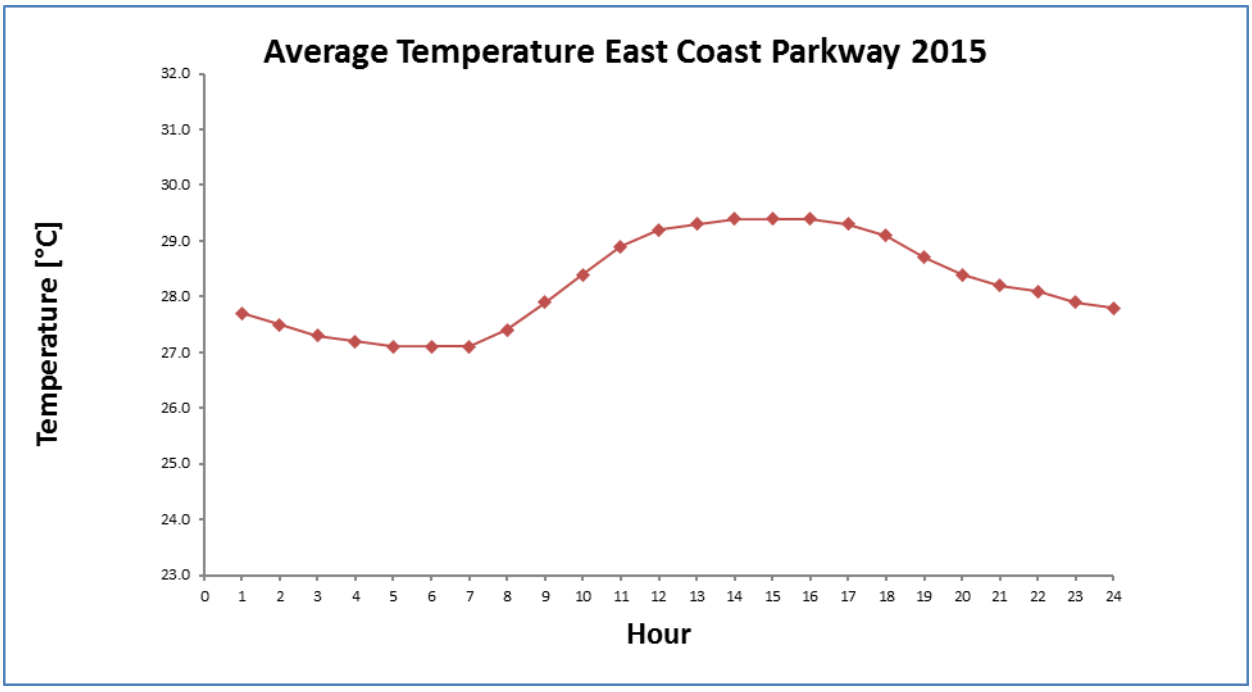


No Data

— Defective Data

S107 East Coast Parkway 2015

Hours	1	2	3	4	5	6	7	8	9	10	11	12
Min Dry Bulb Temperature (°C)	24.5	24.5	24.3	23.1	22.8	22.6	23.1	22.6	22.7	23.4	23.7	22.9
Max Dry Bulb Temperature (°C)	29.8	29.8	29.7	29.5	29.5	29.5	29.5	29.5	30.4	30.8	31.1	31.6
Average Dry Bulb Temperature (°C)	27.7	27.5	27.3	27.2	27.1	27.1	27.1	27.4	27.9	28.4	28.9	29.2
Average Dew Point Temperature (°C)	21.9	22.1	22.1	22.1	22.1	22.0	22.0	22.0	21.9	21.7	21.5	21.4
Average Relative Humidity (%)	67.9	68.9	69.6	70.2	70.6	70.4	70.3	68.8	66.0	63.6	61.0	59.5
Average Wind Speed (m/s)	2.5	2.4	2.3	2.3	2.3	2.4	2.4	2.5	2.9	3.1	3.2	3.3
Max Gust (m/s)	12.7	15.9	13.3	13.2	15.7	16.3	15.0	14.0	10.2	12.9	12.4	14.9
Rainfall (mm)	2.8	43.8	14.0	51.2	28.6	12.0	51.2	52.2	24.2	46.2	21.2	93.8

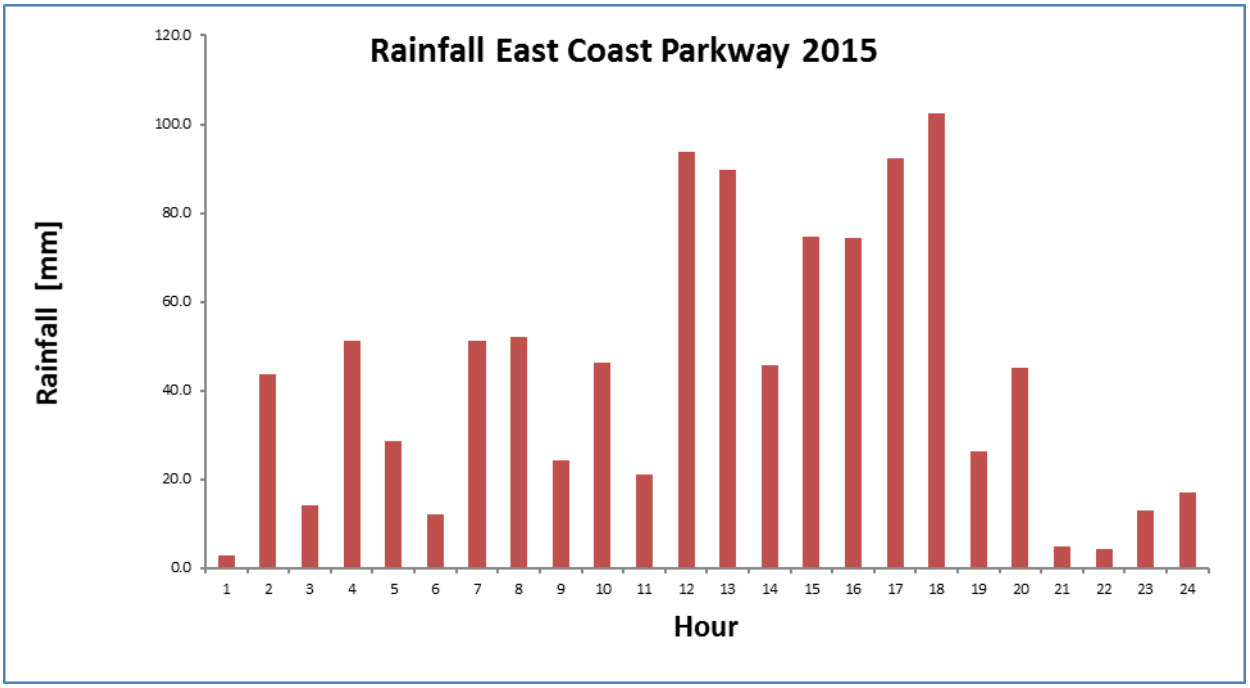


No Data

— Defective Data

S107 East Coast Parkway 2015

Hours	13	14	15	16	17	18	19	20	21	22	23	24
Min Dry Bulb Temperature (°C)	23.9	24.0	24.4	24.4	24.2	22.5	22.6	23.9	24.4	24.8	24.8	24.6
Max Dry Bulb Temperature (°C)	32.1	32.3	32.8	32.4	32.4	32.3	31.6	30.8	30.4	30.2	30.0	29.9
Average Dry Bulb Temperature (°C)	29.3	29.4	29.4	29.4	29.3	29.1	28.7	28.4	28.2	28.1	27.9	27.8
Average Dew Point Temperature (°C)	21.5	21.4	21.4	21.3	21.4	21.4	21.5	21.6	21.8	21.9	22.0	22.1
Average Relative Humidity (%)	59.0	58.7	58.6	58.7	59.0	59.9	61.7	63.6	65.0	66.0	66.7	67.3
Average Wind Speed (m/s)	3.7	4.0	4.2	4.1	4.0	3.6	3.3	3.1	3.1	2.8	2.7	2.6
Max Gust (m/s)	17.0	17.2	15.8	15.4	14.4	13.6	13.3	12.3	11.4	10.5	10.8	11.3
Rainfall (mm)	89.8	45.6	74.8	74.4	92.2	102.6	26.2	45.0	4.8	4.4	13.0	17.0

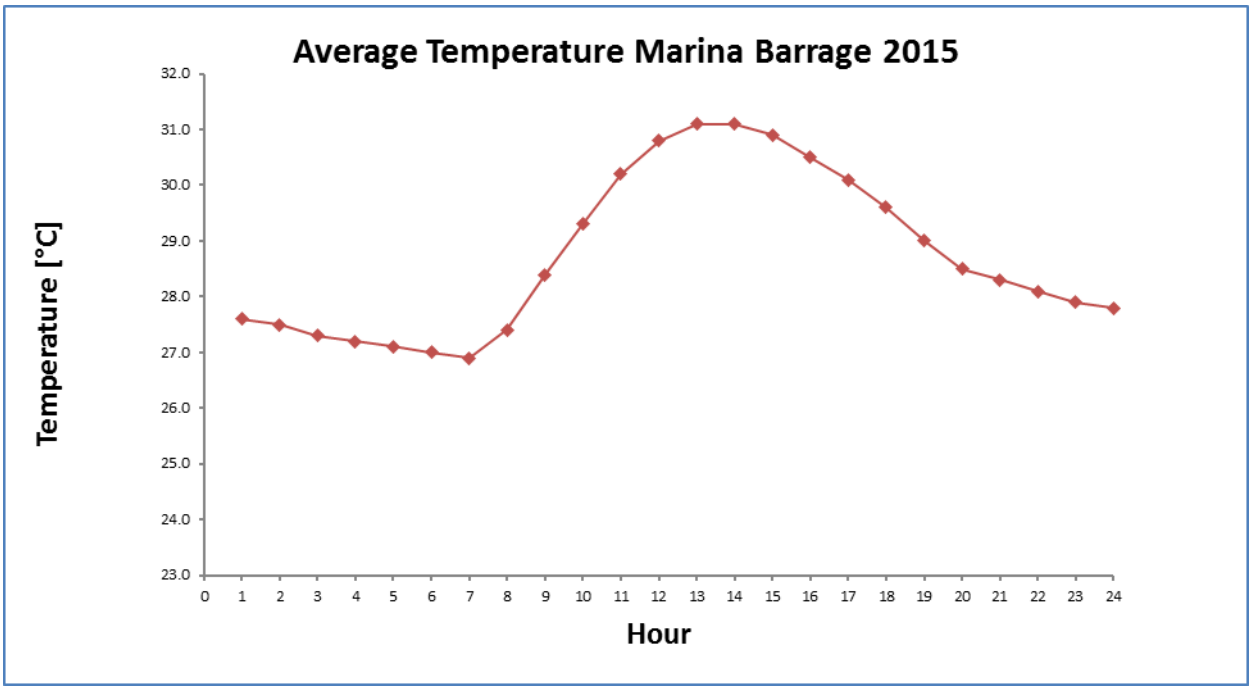


No Data

— Defective Data

S108 Marina Barrage 2015

Hours	1	2	3	4	5	6	7	8	9	10	11	12
Min Dry Bulb Temperature (°C)	24.5	24.2	22.9	22.5	22.7	23.0	23.3	22.9	23.3	23.6	23.6	24.2
Max Dry Bulb Temperature (°C)	29.6	29.5	29.5	29.3	29.1	29.0	29.0	29.9	31.2	32.2	33.3	34.0
Average Dry Bulb Temperature (°C)	27.6	27.5	27.3	27.2	27.1	27.0	26.9	27.4	28.4	29.3	30.2	30.8
Average Dew Point Temperature (°C)	24.3	24.3	24.3	24.2	24.2	24.2	24.2	24.3	24.3	24.1	23.9	23.8
Average Relative Humidity (%)	82.1	83.0	83.7	84.1	84.7	85.1	85.5	83.5	78.6	73.8	69.6	66.7
Average Wind Speed (m/s)	1.5	1.5	1.6	1.6	1.5	1.6	1.5	1.6	1.8	1.8	1.9	1.8
Max Gust (m/s)	10.7	9.4	12.5	11.8	20.5	11.3	21.3	24.7	21.2	21.0	11.1	15.9
Rainfall (mm)	32.0	45.8	27.4	31.8	39.0	36.4	127.8	51.0	35.8	49.0	56.2	77.6

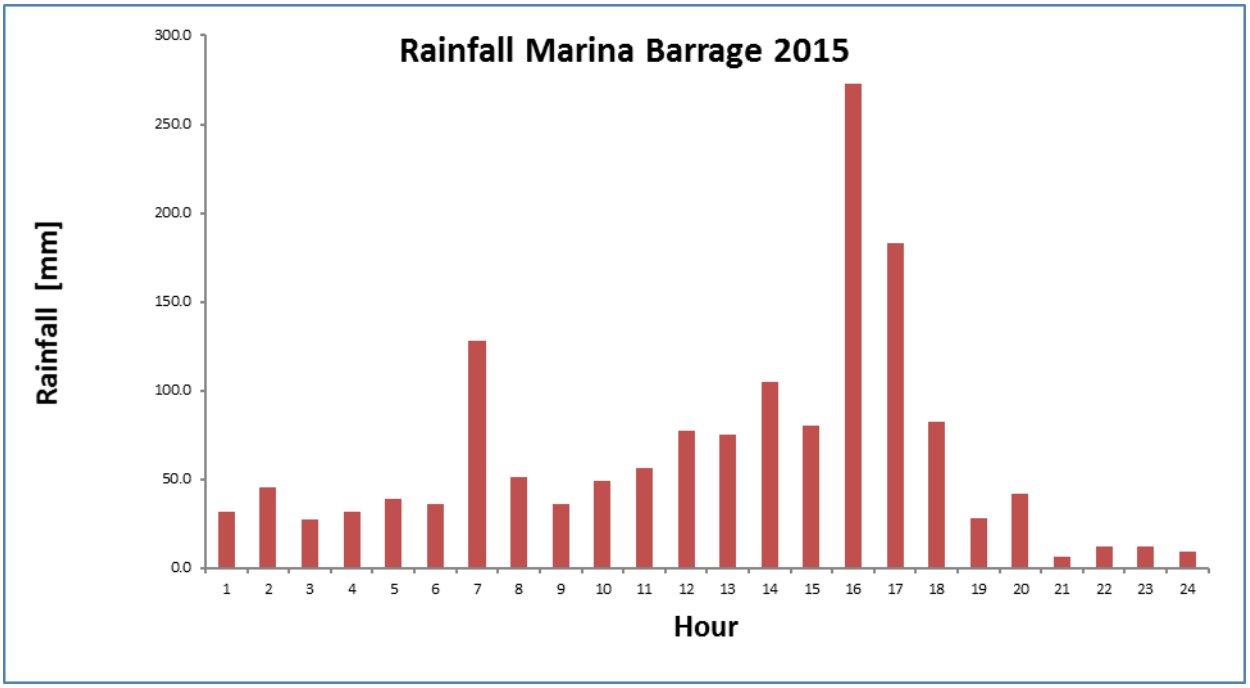


No Data

— Defective Data

S108 Marina Barrage 2015

Hours	13	14	15	16	17	18	19	20	21	22	23	24
Min Dry Bulb Temperature (°C)	23.9	22.8	23.4	23.0	23.4	22.6	23.1	23.5	24.1	25.0	25.1	24.9
Max Dry Bulb Temperature (°C)	34.6	35.2	34.5	34.7	34.5	34.0	32.5	31.2	30.5	30.2	29.9	29.8
Average Dry Bulb Temperature (°C)	31.1	31.1	30.9	30.5	30.1	29.6	29.0	28.5	28.3	28.1	27.9	27.8
Average Dew Point Temperature (°C)	23.7	23.6	23.6	23.5	23.5	23.5	23.7	23.9	24.1	24.2	24.2	24.3
Average Relative Humidity (%)	65.6	65.2	66.0	67.0	68.7	70.8	73.6	76.2	78.4	79.5	80.5	81.3
Average Wind Speed (m/s)	1.9	2.0	2.0	2.0	2.0	2.0	1.9	1.8	1.7	1.7	1.6	1.6
Max Gust (m/s)	10.9	17.9	25.5	18.9	21.1	11.8	19.3	10.2	9.2	9.6	8.7	8.6
Rainfall (mm)	74.8	104.8	80.2	272.6	183.2	82.6	28.0	41.6	6.0	12.4	12.0	9.4

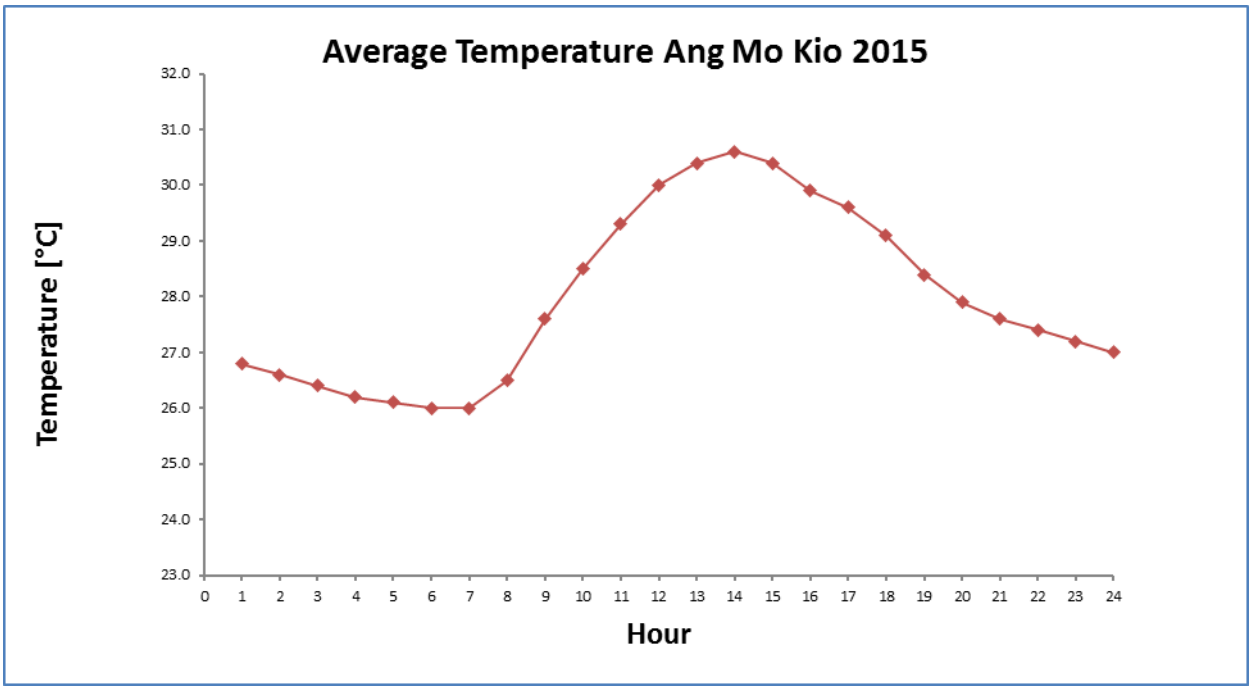


No Data

— Defective Data

S109 Ang Mo Kio 2015

Hours	1	2	3	4	5	6	7	8	9	10	11	12
Min Dry Bulb Temperature (°C)	23.9	22.8	22.7	22.6	22.5	22.0	21.7	21.6	22.1	22.7	23.2	23.0
Max Dry Bulb Temperature (°C)	29.3	29.2	29.2	29.1	28.9	28.7	28.4	29.7	30.8	31.5	32.3	33.5
Average Dry Bulb Temperature (°C)	26.8	26.6	26.4	26.2	26.1	26.0	26.0	26.5	27.6	28.5	29.3	30.0
Average Dew Point Temperature (°C)	23.5	23.6	23.6	23.6	23.6	23.6	23.6	23.7	23.5	22.9	22.3	21.9
Average Relative Humidity (%)	82.5	83.5	84.5	85.7	86.3	86.9	87.3	84.8	78.6	72.0	66.6	62.7
Average Wind Speed (m/s)	1.4	1.4	1.3	1.3	1.2	1.2	1.2	1.3	1.7	2.0	2.1	2.1
Max Gust (m/s)	8.1	12.7	10.5	9.7	13.1	14.3	11.3	11.4	15.3	10.6	11.6	11.2
Rainfall (mm)	9.8	20.6	51.0	67.4	27.8	57.0	75.4	46.2	27.6	37.6	60.2	123.4

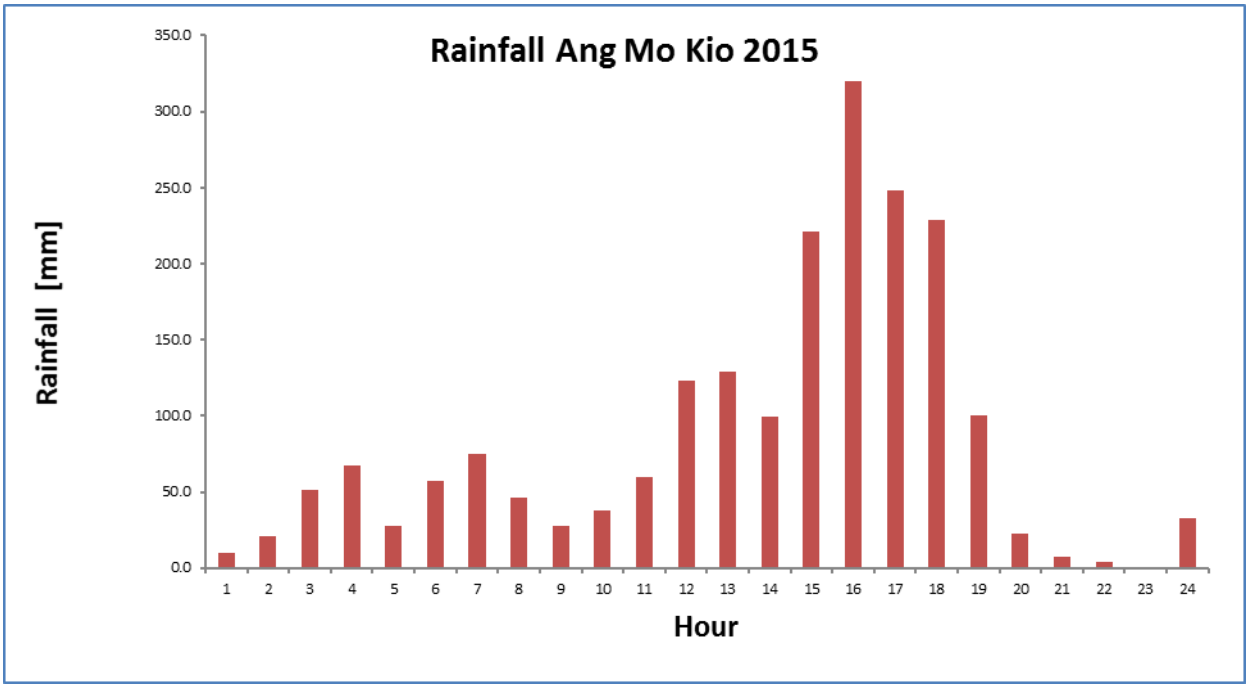


No Data

— Defective Data

S109 Ang Mo Kio 2015

Hours	13	14	15	16	17	18	19	20	21	22	23	24
Min Dry Bulb Temperature (°C)	23.5	23.3	23.6	22.6	22.5	22.0	22.5	22.5	23.6	23.8	23.8	23.8
Max Dry Bulb Temperature (°C)	34.0	34.9	34.9	34.8	33.8	33.2	32.7	31.3	30.8	30.2	29.8	29.6
Average Dry Bulb Temperature (°C)	30.4	30.6	30.4	29.9	29.6	29.1	28.4	27.9	27.6	27.4	27.2	27.0
Average Dew Point Temperature (°C)	21.6	21.5	21.5	21.8	21.9	22.1	22.3	22.7	23.0	23.3	23.4	23.5
Average Relative Humidity (%)	60.6	59.6	60.8	63.3	64.5	67.1	70.5	74.0	76.6	78.5	79.9	81.2
Average Wind Speed (m/s)	2.2	2.2	2.3	2.4	2.3	2.2	1.9	1.8	1.7	1.6	1.6	1.5
Max Gust (m/s)	12.0	12.3	11.4	13.1	16.1	20.5	12.6	10.0	9.2	9.6	8.8	9.2
Rainfall (mm)	129.2	99.2	220.8	320.0	248.0	228.6	100.6	23.0	7.2	4.0	1.0	32.8

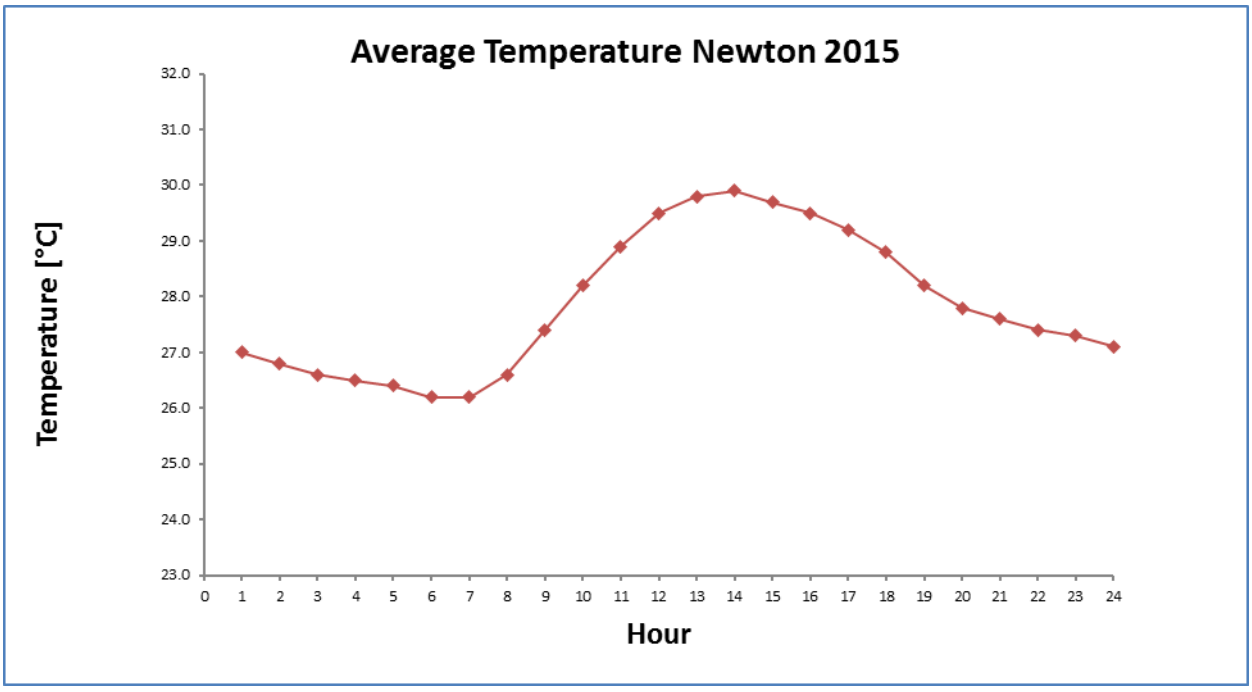


No Data

— Defective Data

S111 Newton 2015

Hours	1	2	3	4	5	6	7	8	9	10	11	12
Min Dry Bulb Temperature (°C)	23.6	23.5	22.1	22.0	22.3	21.8	22.3	22.3	22.5	22.7	22.8	23.7
Max Dry Bulb Temperature (°C)	28.9	28.8	28.8	28.7	28.5	28.4	28.5	28.7	29.6	31.9	32.4	33.0
Average Dry Bulb Temperature (°C)	27.0	26.8	26.6	26.5	26.4	26.2	26.2	26.6	27.4	28.2	28.9	29.5
Average Dew Point Temperature (°C)	24.8	24.9	24.9	24.9	25.0	25.1	25.1	25.0	24.5	23.8	23.3	22.8
Average Relative Humidity (%)	87.5	88.8	89.9	90.8	91.5	92.3	92.2	90.0	83.6	76.6	71.6	67.3
Average Wind Speed (m/s)	1.9	1.8	1.8	1.7	1.7	1.7	1.7	1.7	2.0	2.1	2.2	2.2
Max Gust (m/s)	12.5	14.6	14.4	12.8	16.4	14.3	12.6	13.1	11.1	13.8	14.1	12.8
Rainfall (mm)	6.8	32.8	38.6	44.0	51.0	48.0	65.0	59.2	31.8	42.8	91.4	111.0

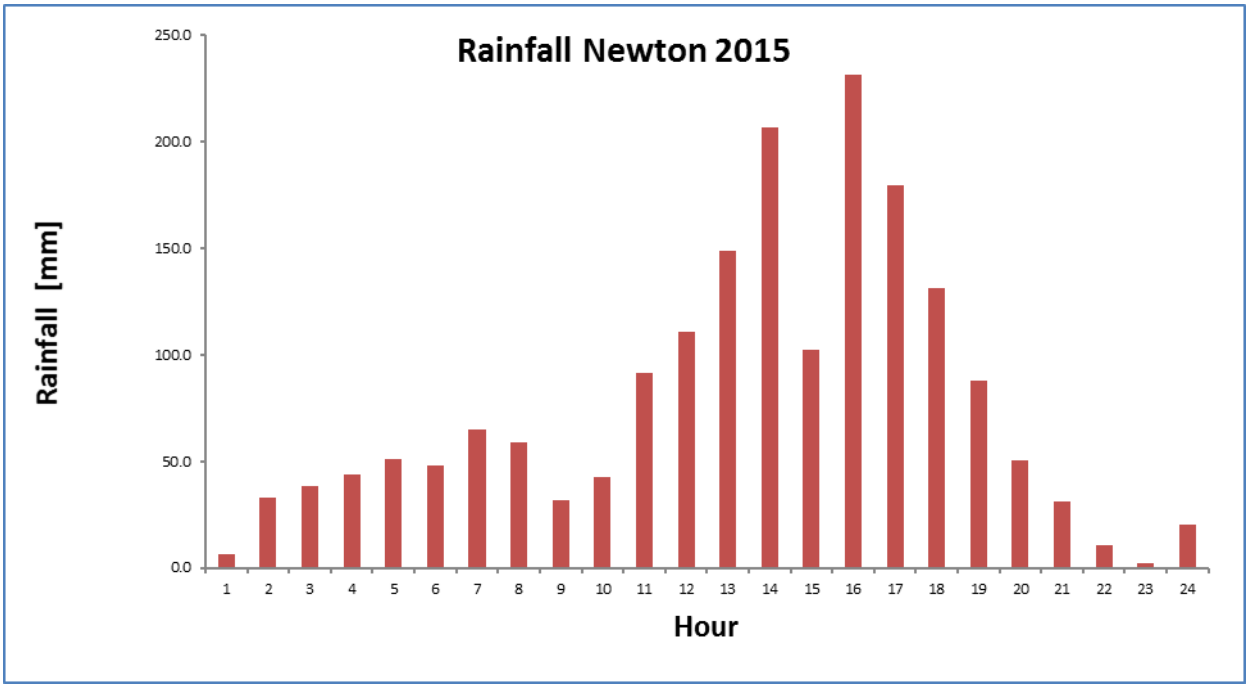


No Data

— Defective Data

S111 Newton 2015

Hours	13	14	15	16	17	18	19	20	21	22	23	24
Min Dry Bulb Temperature (°C)	22.6	22.4	22.9	22.8	22.8	21.9	22.4	22.7	23.6	24.0	23.9	23.8
Max Dry Bulb Temperature (°C)	33.7	34.3	34.2	33.9	33.2	32.4	31.3	30.6	29.9	29.5	29.2	29.1
Average Dry Bulb Temperature (°C)	29.8	29.9	29.7	29.5	29.2	28.8	28.2	27.8	27.6	27.4	27.3	27.1
Average Dew Point Temperature (°C)	22.5	22.5	22.5	22.6	22.6	22.9	23.2	23.7	24.1	24.4	24.5	24.6
Average Relative Humidity (%)	64.7	64.4	65.4	66.6	67.6	70.5	74.0	77.9	81.3	83.3	84.8	86.1
Average Wind Speed (m/s)	2.4	2.5	2.7	2.6	2.5	2.4	2.2	2.1	2.0	2.0	2.0	1.9
Max Gust (m/s)	14.9	13.3	14.5	13.7	13.1	13.1	12.2	12.2	11.6	10.9	11.3	11.3
Rainfall (mm)	148.8	206.6	102.2	231.6	179.6	131.4	88.2	50.6	31.4	10.6	2.0	20.2

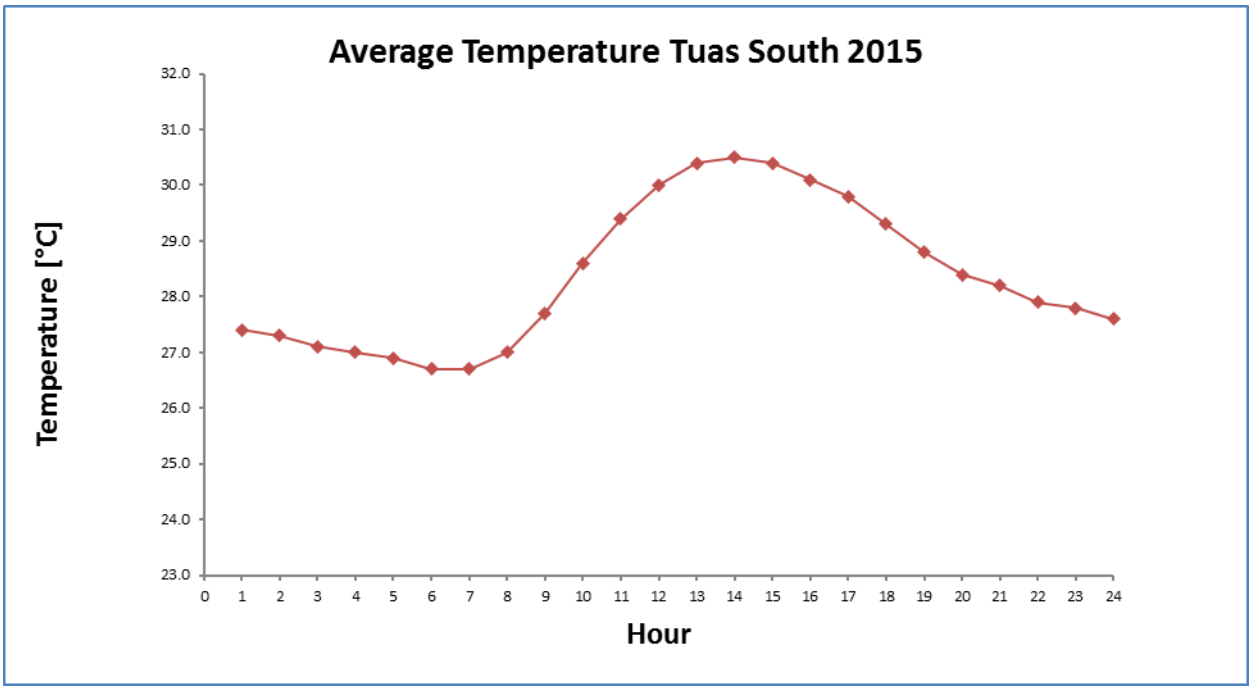


No Data

— Defective Data

S115 Tuas South 2015

Hours	1	2	3	4	5	6	7	8	9	10	11	12
Min Dry Bulb Temperature (°C)	24.7	24.4	23.5	23.2	23.6	22.8	22.6	22.6	22.7	23.3	23.6	24.4
Max Dry Bulb Temperature (°C)	29.5	29.5	29.3	29.1	29.0	29.0	29.3	29.7	30.3	31.7	32.6	33.4
Average Dry Bulb Temperature (°C)	27.4	27.3	27.1	27.0	26.9	26.7	26.7	27.0	27.7	28.6	29.4	30.0
Average Dew Point Temperature (°C)	23.6	23.7	23.6	23.6	23.6	23.6	23.6	23.8	23.9	23.8	23.6	23.5
Average Relative Humidity (%)	79.9	80.7	81.4	82.0	82.6	83.0	83.4	82.9	79.9	75.5	71.5	68.7
Average Wind Speed (m/s)	1.1	1.2	1.2	1.2	1.2	1.1	1.1	1.2	1.4	1.6	1.9	2.2
Max Gust (m/s)	11.9	10.7	19.4	10.9	12.0	13.5	14.9	9.8	11.3	10.9	10.8	12.1
Rainfall (mm)	18.6	23.6	48.6	48.8	38.4	203.8	71.2	107.4	63.8	32.8	52.6	40.0

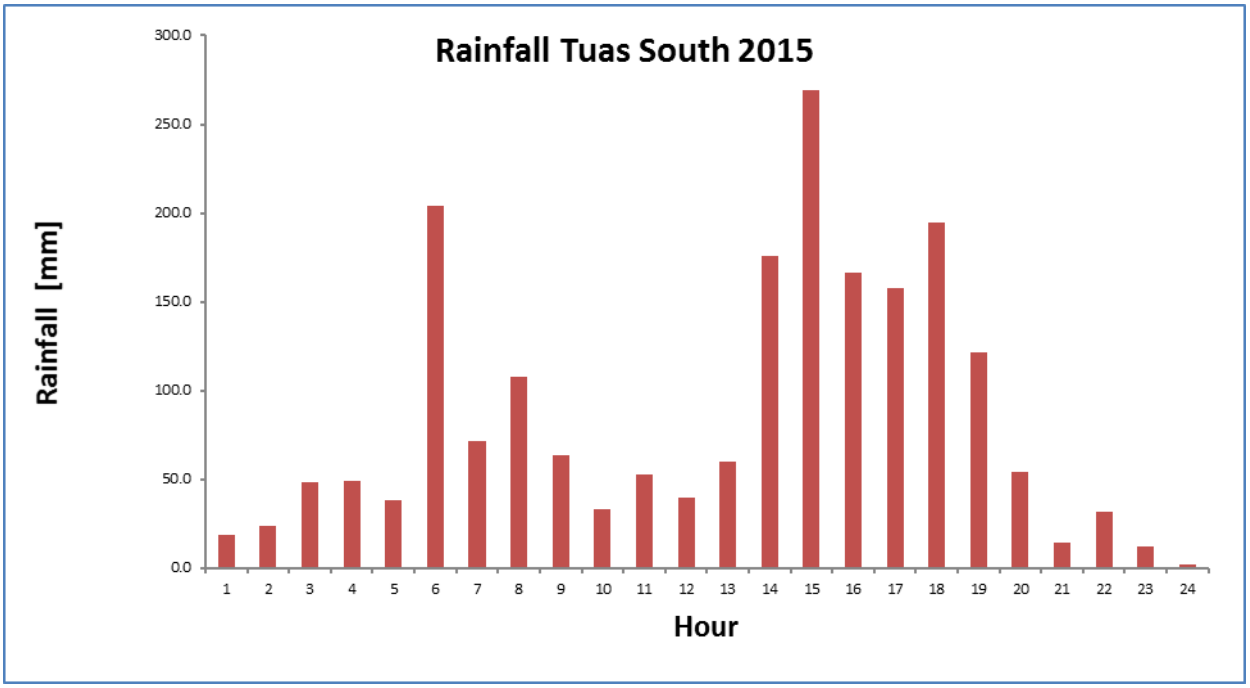


No Data

— Defective Data

S115 Tuas South 2015

Hours	13	14	15	16	17	18	19	20	21	22	23	24
Min Dry Bulb Temperature (°C)	24.7	23.8	23.1	23.9	23.5	22.6	22.8	23.9	24.2	24.6	24.6	24.7
Max Dry Bulb Temperature (°C)	34.3	34.3	34.9	34.7	35.2	34.5	33.4	31.8	31.0	30.4	29.9	29.8
Average Dry Bulb Temperature (°C)	30.4	30.5	30.4	30.1	29.8	29.3	28.8	28.4	28.2	27.9	27.8	27.6
Average Dew Point Temperature (°C)	23.5	23.5	23.5	23.4	23.3	23.2	23.3	23.3	23.4	23.5	23.6	23.6
Average Relative Humidity (%)	67.2	67.0	67.5	68.2	69.2	70.5	72.4	74.1	75.6	77.2	78.2	79.1
Average Wind Speed (m/s)	2.5	2.7	2.6	2.4	2.1	1.8	1.5	1.3	1.2	1.2	1.1	1.1
Max Gust (m/s)	15.8	10.9	11.3	15.4	12.3	12.5	14.9	15.0	15.8	13.7	8.1	7.1
Rainfall (mm)	59.8	175.8	269.4	166.6	157.4	194.4	121.6	54.0	14.2	32.0	12.4	1.8

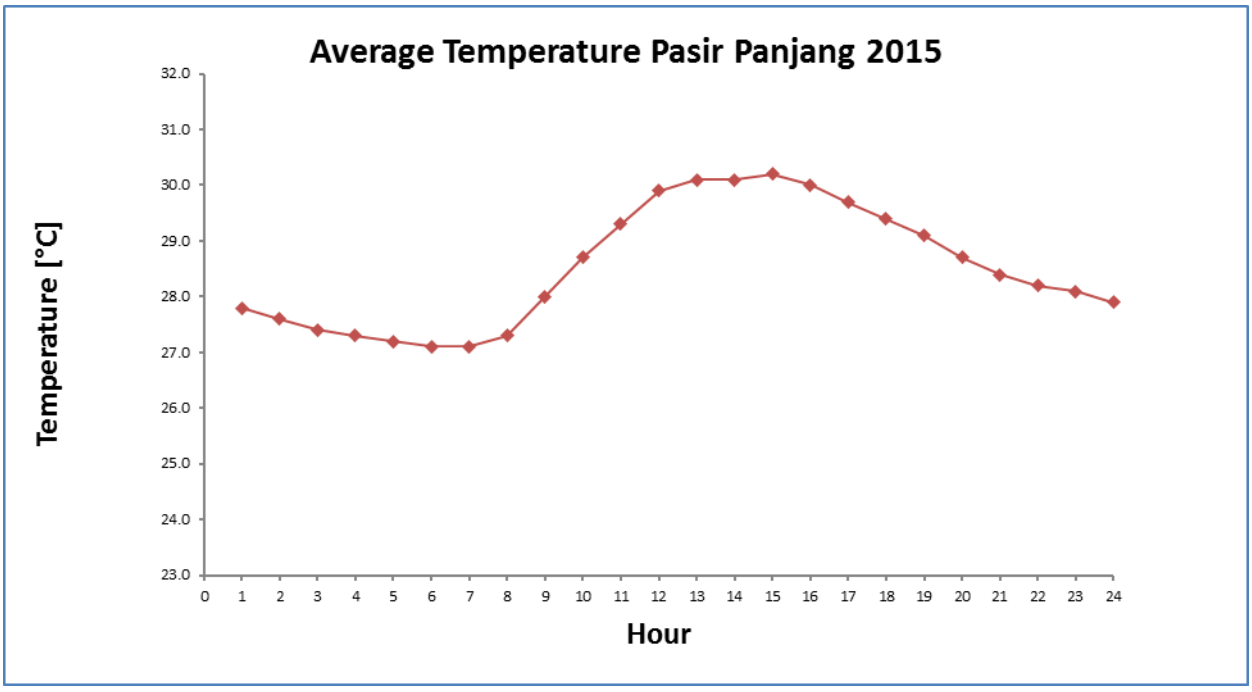


No Data

— Defective Data

S116 Pasir Panjang 2015

Hours	1	2	3	4	5	6	7	8	9	10	11	12
Min Dry Bulb Temperature (°C)	24.7	24.5	23.0	23.2	23.2	22.9	23.1	22.7	23.3	23.9	24.3	23.4
Max Dry Bulb Temperature (°C)	29.9	29.8	29.7	29.7	29.6	29.6	29.6	29.9	30.4	31.2	31.9	32.8
Average Dry Bulb Temperature (°C)	27.8	27.6	27.4	27.3	27.2	27.1	27.1	27.3	28.0	28.7	29.3	29.9
Average Dew Point Temperature (°C)	25.1	25.1	25.1	25.1	25.0	25.0	25.0	25.1	25.0	24.8	24.5	24.3
Average Relative Humidity (%)	85.4	86.3	87.1	87.6	88.1	88.4	88.5	87.6	84.1	79.7	75.8	72.5
Average Wind Speed (m/s)	2.5	2.5	2.5	2.5	2.4	2.4	2.4	2.5	2.8	3.2	3.1	3.2
Max Gust (m/s)	16.9	15.9	16.5	14.6	16.1	14.2	15.5	19.3	13.8	12.5	13.1	12.8
Rainfall (mm)	2.4	29.2	59.6	26.8	46.8	61.4	96.8	59.8	64.6	36.4	47.0	67.0

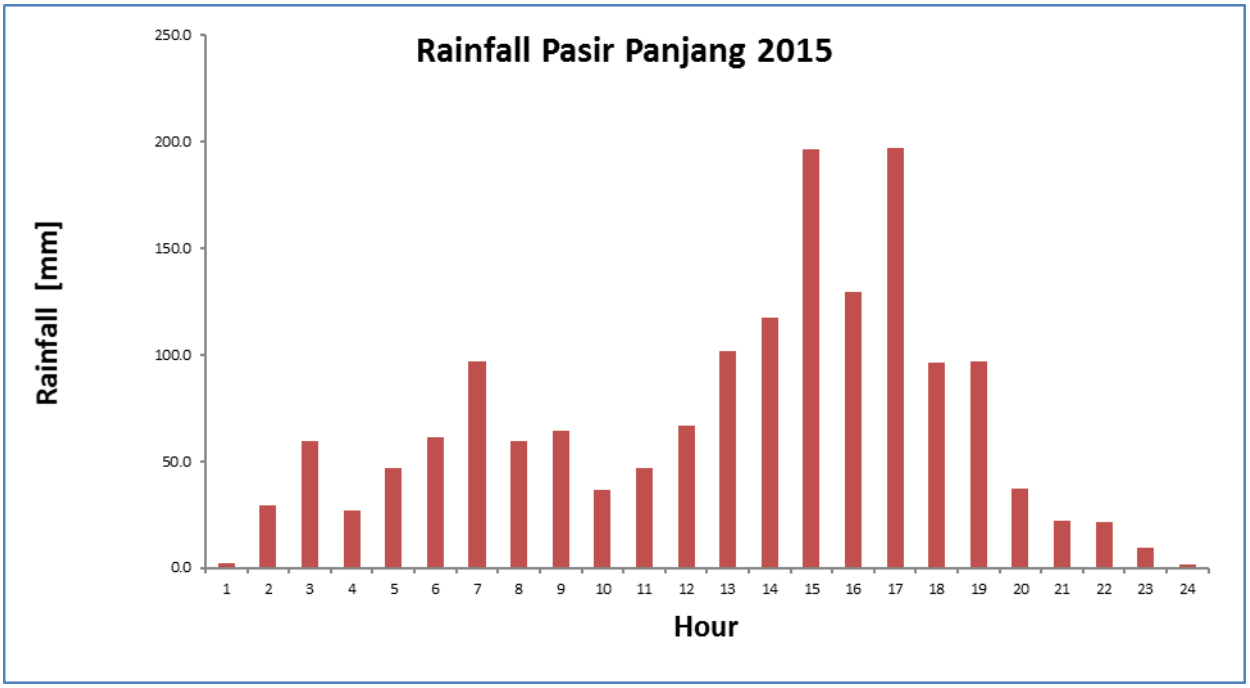


No Data

— Defective Data

S116 Pasir Panjang 2015

Hours	13	14	15	16	17	18	19	20	21	22	23	24
Min Dry Bulb Temperature (°C)	23.6	24.1	23.6	23.3	22.8	22.2	24.0	23.9	24.2	24.7	24.7	24.8
Max Dry Bulb Temperature (°C)	33.4	33.6	33.8	34.1	33.8	33.3	32.9	31.6	31.2	30.7	30.3	30.1
Average Dry Bulb Temperature (°C)	30.1	30.1	30.2	30.0	29.7	29.4	29.1	28.7	28.4	28.2	28.1	27.9
Average Dew Point Temperature (°C)	24.2	24.2	24.1	24.2	24.2	24.3	24.3	24.5	24.8	24.9	25.0	25.1
Average Relative Humidity (%)	71.4	71.3	71.3	72.3	72.9	74.6	76.2	78.5	80.8	82.4	83.6	84.5
Average Wind Speed (m/s)	3.3	3.4	3.4	3.3	3.2	3.0	2.8	2.8	2.7	2.7	2.6	2.5
Max Gust (m/s)	14.0	16.0	16.0	14.4	17.0	15.1	15.6	13.3	10.6	10.8	9.7	9.7
Rainfall (mm)	101.6	117.6	196.8	129.8	197.0	96.4	96.8	37.4	22.4	21.6	9.8	1.4

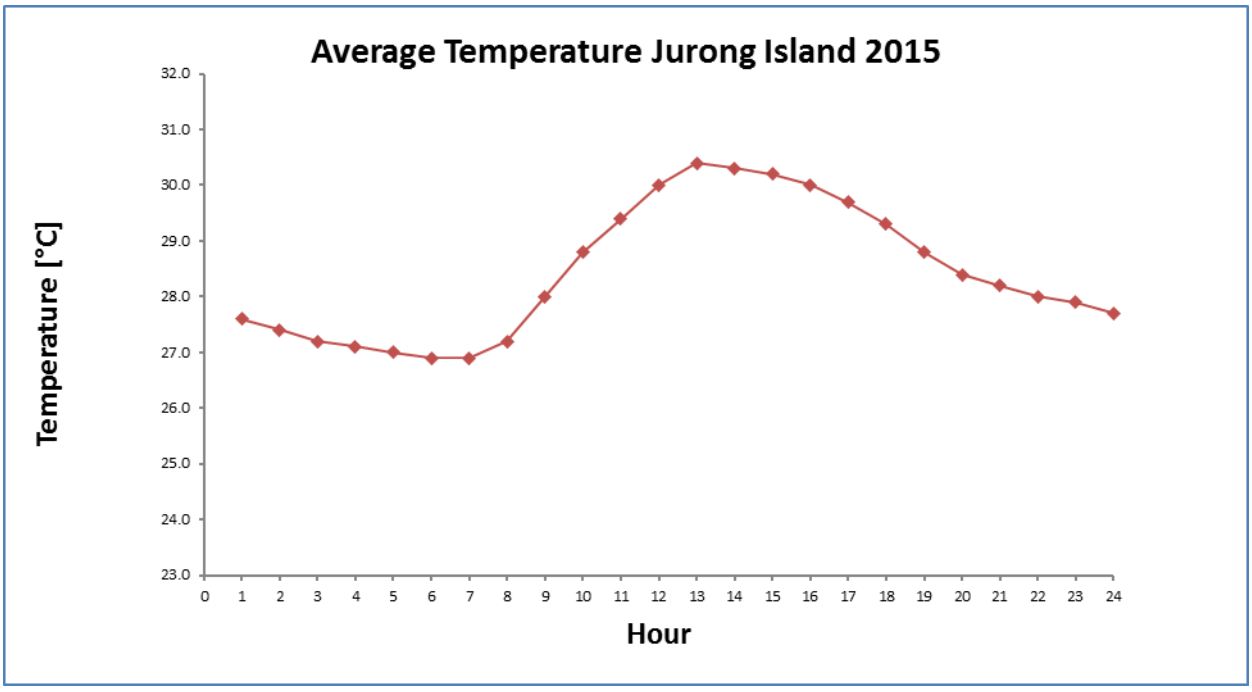


No Data

— Defective Data

S117 Jurong Island 2015

Hours	1	2	3	4	5	6	7	8	9	10	11	12
Min Dry Bulb Temperature (°C)	24.5	24.1	23.4	22.9	22.3	22.7	23.4	22.8	22.8	23.1	24.4	23.1
Max Dry Bulb Temperature (°C)	29.6	29.5	29.3	29.2	29.0	29.0	29.0	29.4	30.2	31.2	32.0	32.6
Average Dry Bulb Temperature (°C)	27.6	27.4	27.2	27.1	27.0	26.9	26.9	27.2	28.0	28.8	29.4	30.0
Average Dew Point Temperature (°C)	23.9	24.0	24.0	24.0	24.0	24.0	24.0	24.1	23.9	23.5	23.1	22.9
Average Relative Humidity (%)	80.7	81.8	82.6	83.2	83.7	84.4	84.5	83.3	78.8	73.6	69.5	66.4
Average Wind Speed (m/s)	2.4	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.5	2.7	2.8	3.0
Max Gust (m/s)	15.3	13.4	10.5	10.0	11.2	19.9	12.6	12.4	11.3	12.1	12.6	13.9
Rainfall (mm)	13.6	34.6	40.2	47.6	16.0	63.6	53.8	62.8	33.8	57.6	41.0	107.0

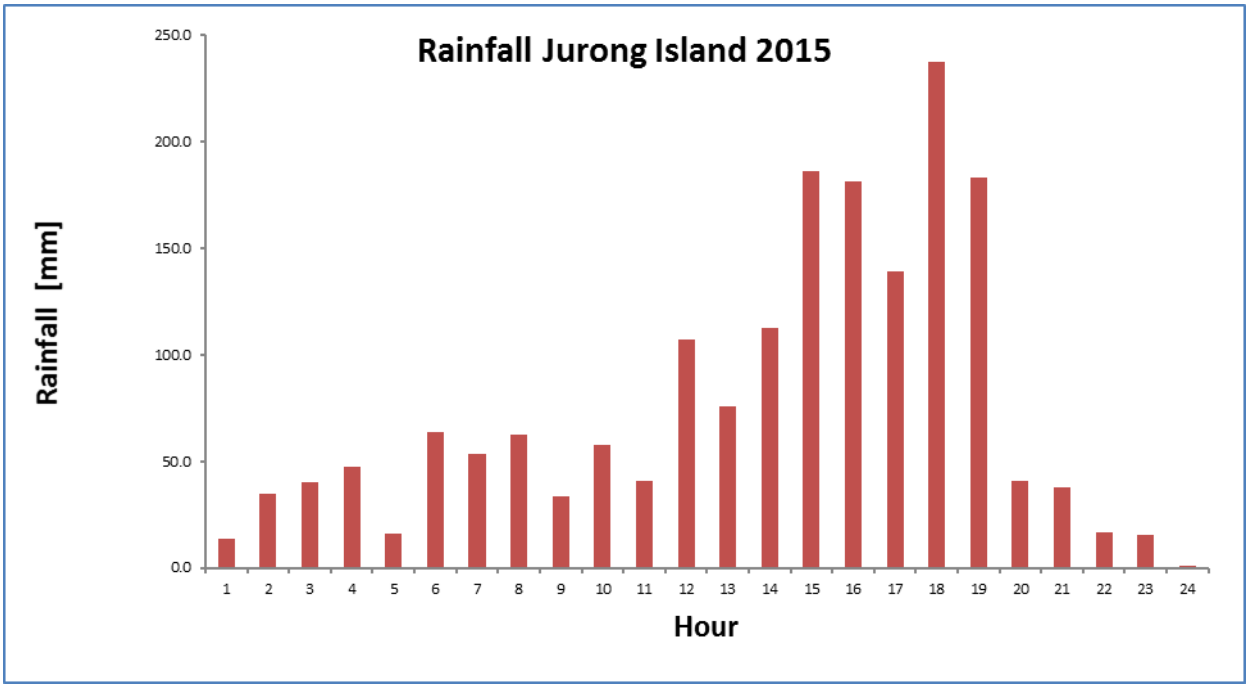


No Data

— Defective Data

S117 Jurong Island 2015

Hours	13	14	15	16	17	18	19	20	21	22	23	24
Min Dry Bulb Temperature (°C)	23.9	23.3	23.3	23.4	23.7	22.7	22.6	23.1	24.1	23.9	24.4	24.5
Max Dry Bulb Temperature (°C)	33.4	34.0	34.2	34.3	34.4	34.0	33.0	31.5	30.8	30.1	29.7	29.6
Average Dry Bulb Temperature (°C)	30.4	30.3	30.2	30.0	29.7	29.3	28.8	28.4	28.2	28.0	27.9	27.7
Average Dew Point Temperature (°C)	22.8	22.9	22.9	22.9	22.9	23.0	23.2	23.3	23.5	23.7	23.8	23.9
Average Relative Humidity (%)	65.0	65.5	65.8	66.8	67.8	70.2	72.5	74.2	76.0	77.7	78.8	79.6
Average Wind Speed (m/s)	3.2	3.4	3.5	3.4	3.2	2.9	2.5	2.4	2.4	2.4	2.5	2.4
Max Gust (m/s)	16.7	16.2	12.6	15.8	18.9	15.8	12.0	13.3	11.1	10.7	11.6	11.4
Rainfall (mm)	75.6	113.0	186.4	181.4	139.2	237.4	183.0	40.8	37.8	16.8	15.4	1.2

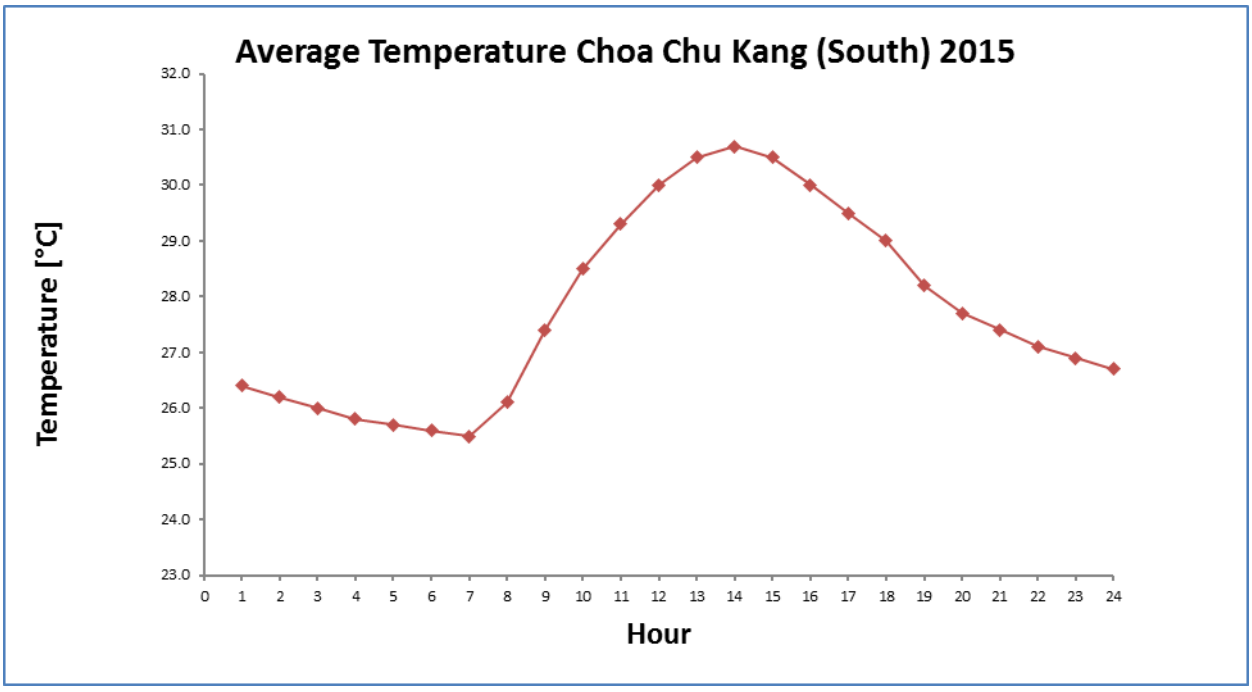


No Data

Defective Data

S121 Choa Chu Kang (South) 2015

Hours	1	2	3	4	5	6	7	8	9	10	11	12
Min Dry Bulb Temperature (°C)	23.7	23.1	22.3	22.3	22.1	21.8	22.5	22.6	22.7	22.9	22.6	22.7
Max Dry Bulb Temperature (°C)	29.1	29.1	28.6	28.3	28.2	28.0	28.0	29.5	30.2	31.6	35.2	33.4
Average Dry Bulb Temperature (°C)	26.4	26.2	26.0	25.8	25.7	25.6	25.5	26.1	27.4	28.5	29.3	30.0
Average Dew Point Temperature (°C)	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.8	23.0	22.3	21.6	21.4
Average Relative Humidity (%)	74.7	75.7	76.4	77.2	77.9	78.7	79.3	77.1	72.6	65.6	59.7	56.5
Average Wind Speed (m/s)	1.1	1.0	1.0	1.0	1.0	1.0	0.9	1.1	1.6	2.0	2.1	2.1
Max Gust (m/s)	11.9	13.9	12.4	9.3	8.5	23.3	27.4	13.6	12.1	10.6	10.7	10.9
Rainfall (mm)	4.4	80.2	105.2	34.2	15.6	45.2	36.6	40.2	31.0	41.6	92.4	80.4

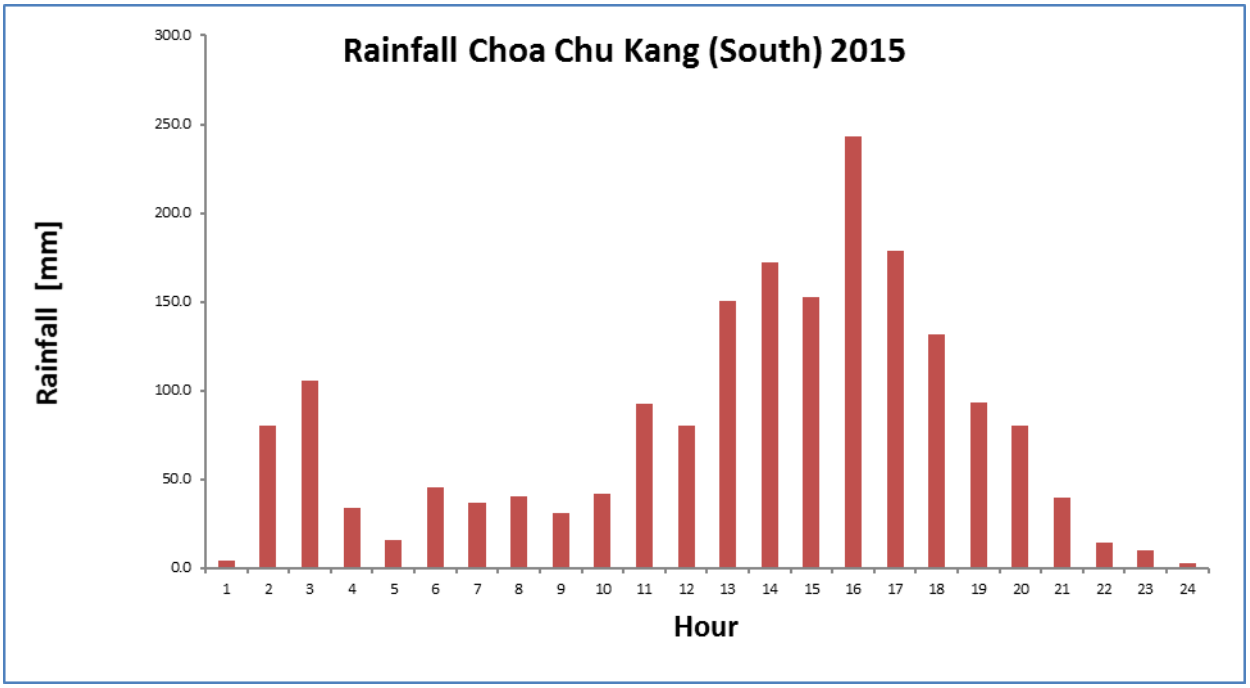


No Data

— Defective Data

S121 Choa Chu Kang (South) 2015

Hours	13	14	15	16	17	18	19	20	21	22	23	24
Min Dry Bulb Temperature (°C)	23.0	22.8	23.0	22.8	23.4	22.0	23.7	23.6	23.7	23.9	23.9	23.8
Max Dry Bulb Temperature (°C)	33.9	34.8	34.8	34.7	34.0	33.2	32.1	31.1	30.3	29.9	29.5	29.2
Average Dry Bulb Temperature (°C)	30.5	30.7	30.5	30.0	29.5	29.0	28.2	27.7	27.4	27.1	26.9	26.7
Average Dew Point Temperature (°C)	21.1	21.1	21.1	21.4	21.5	21.6	21.8	21.9	22.2	22.3	22.5	22.5
Average Relative Humidity (%)	54.2	54.3	55.0	57.4	59.2	61.5	64.7	66.9	69.1	70.9	72.2	73.2
Average Wind Speed (m/s)	2.2	2.2	2.2	2.2	2.1	1.9	1.6	1.5	1.4	1.3	1.2	1.1
Max Gust (m/s)	11.5	27.8	29.3	36.6	29.9	11.9	13.0	11.4	9.1	8.7	12.2	11.9
Rainfall (mm)	150.6	172.0	152.4	243.2	178.8	131.4	93.0	80.2	39.4	14.6	10.2	2.4

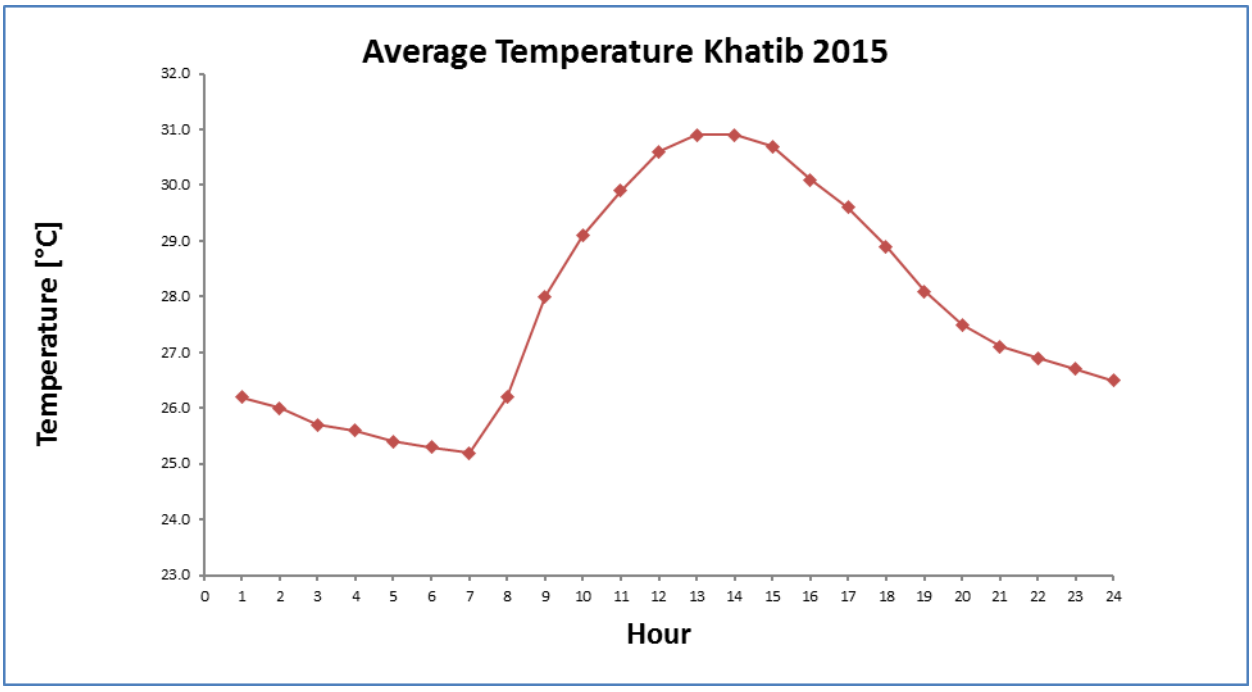


No Data

— Defective Data

S122 Khatib 2015

Hours	1	2	3	4	5	6	7	8	9	10	11	12
Min Dry Bulb Temperature (°C)	23.6	22.3	22.3	22.6	22.8	22.6	22.5	22.5	22.6	23.0	23.0	23.7
Max Dry Bulb Temperature (°C)	29.2	29.0	28.5	28.4	28.4	28.3	28.2	29.2	30.5	31.9	33.0	33.5
Average Dry Bulb Temperature (°C)	26.2	26.0	25.7	25.6	25.4	25.3	25.2	26.2	28.0	29.1	29.9	30.6
Average Dew Point Temperature (°C)	21.1	21.3	21.2	21.1	21.1	21.2	20.4	22.1	21.3	20.1	19.2	18.8
Average Relative Humidity (%)	65.9	67.3	68.9	69.1	68.8	69.5	69.8	69.8	61.1	54.2	49.2	45.7
Average Wind Speed (m/s)	1.0	0.9	0.9	0.8	0.8	0.8	0.8	0.9	1.4	1.7	1.9	2.0
Max Gust (m/s)	6.9	12.1	9.6	10.0	7.2	9.4	7.9	13.3	6.6	9.0	9.5	9.6
Rainfall (mm)	12.0	38.6	83.6	53.2	27.0	37.5	45.7	39.3	15.5	30.0	53.1	105.3

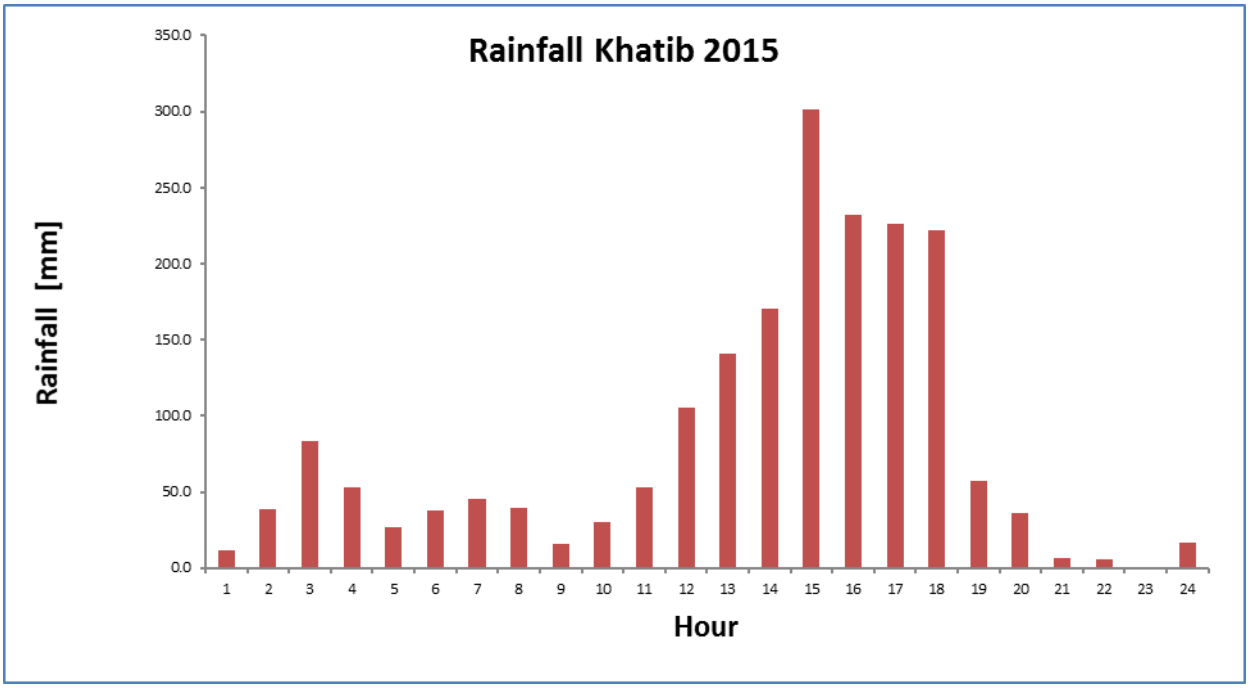


No Data

— Defective Data

S122 Khatib 2015

Hours	13	14	15	16	17	18	19	20	21	22	23	24
Min Dry Bulb Temperature (°C)	23.7	23.3	23.1	23.1	23.4	22.2	22.8	23.4	23.5	23.8	23.8	23.8
Max Dry Bulb Temperature (°C)	34.9	34.7	34.6	34.7	34.0	33.0	32.0	30.7	29.9	29.8	29.5	29.2
Average Dry Bulb Temperature (°C)	30.9	30.9	30.7	30.1	29.6	28.9	28.1	27.5	27.1	26.9	26.7	26.5
Average Dew Point Temperature (°C)	18.4	18.4	18.4	18.9	18.9	19.3	19.4	19.9	20.3	20.6	20.9	21.2
Average Relative Humidity (%)	44.0	43.9	45.6	47.7	49.1	52.1	55.3	58.5	60.3	62.5	63.8	65.1
Average Wind Speed (m/s)	2.0	2.2	2.3	2.1	2.0	1.8	1.6	1.4	1.3	1.1	1.1	1.0
Max Gust (m/s)	10.1	11.6	11.2	11.0	10.3	9.8	9.5	8.1	8.5	7.9	6.9	6.3
Rainfall (mm)	140.8	170.7	301.2	231.7	226.6	222.0	57.0	35.8	6.4	5.8	0.4	16.8



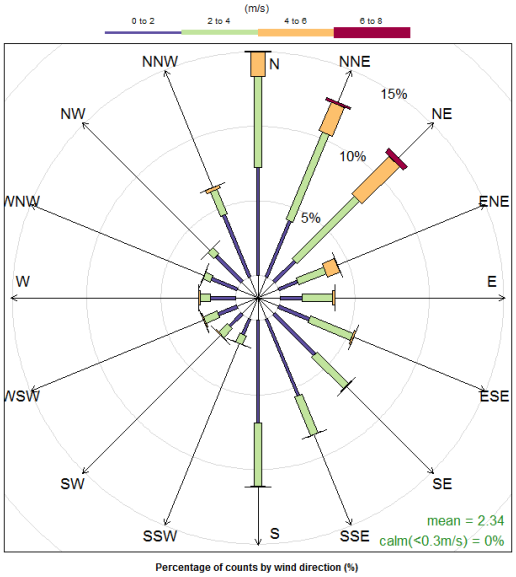
No Data

— Defective Data

11. Wind Rose

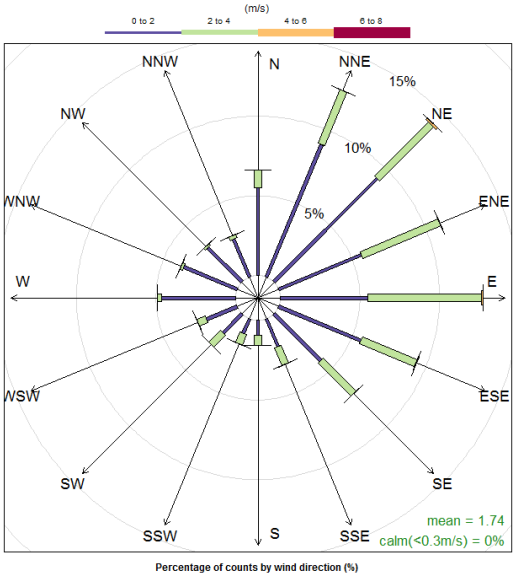
11.1. Annual Wind Rose of All Stations

Admiralty 2015



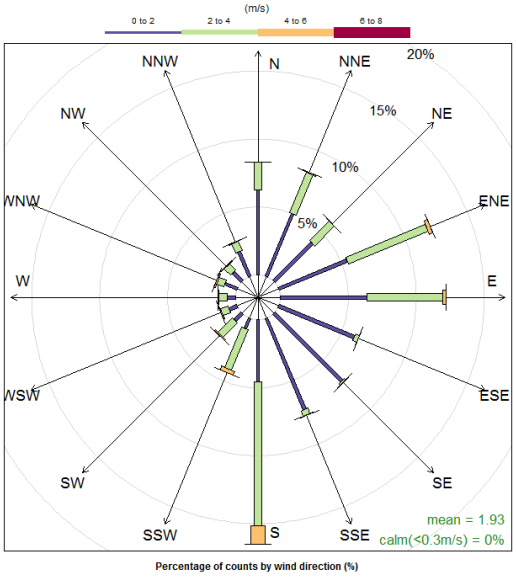
Percentage of counts by wind direction (%)

Ang Mo Kio 2015



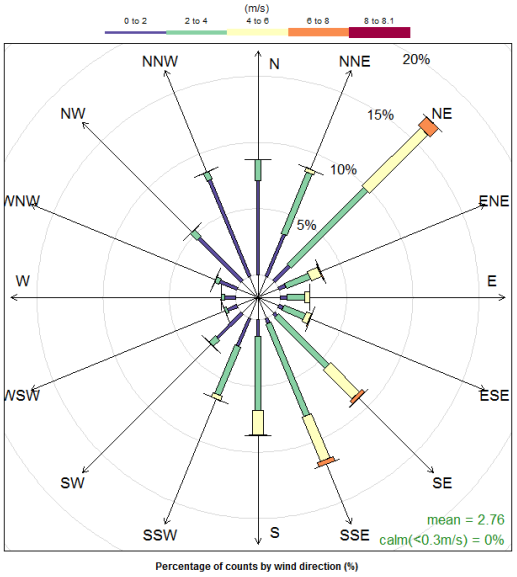
Percentage of counts by wind direction (%)

Boon Lay (East) 2015



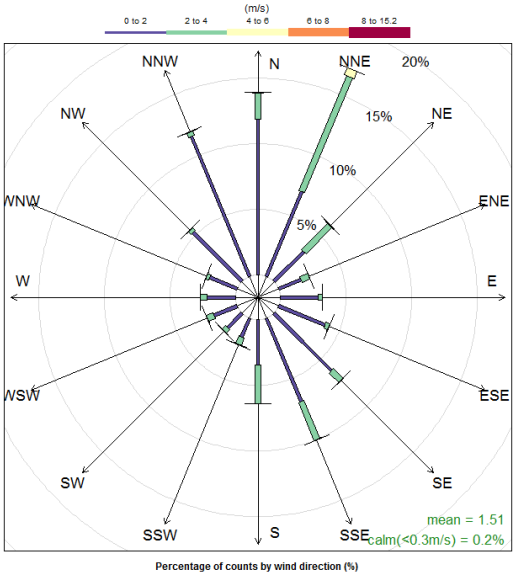
Percentage of counts by wind direction (%)

Changi 2015



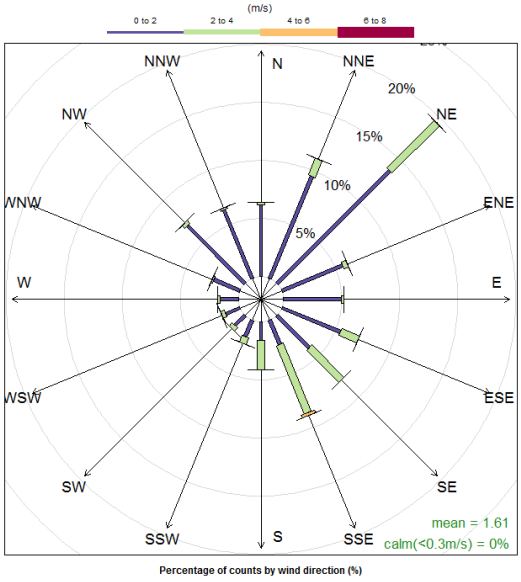
Percentage of counts by wind direction (%)

Choa Chu Kang (South) 2015



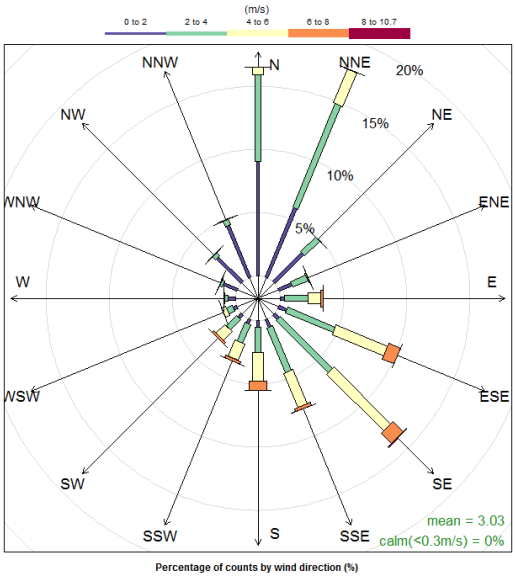
Percentage of counts by wind direction (%)

Clementi 2015



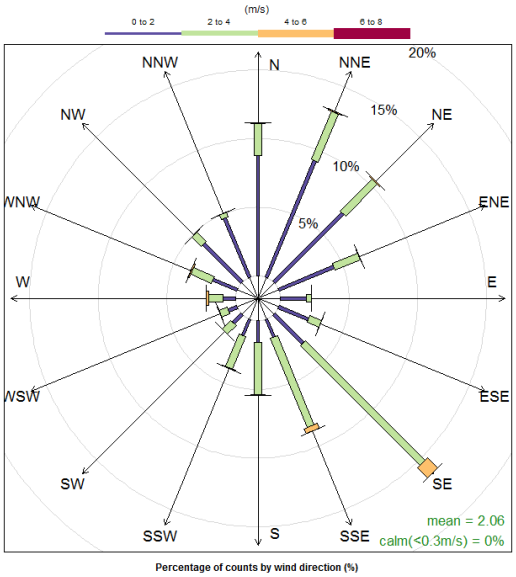
Percentage of counts by wind direction (%)

East Coast Parkway 2015



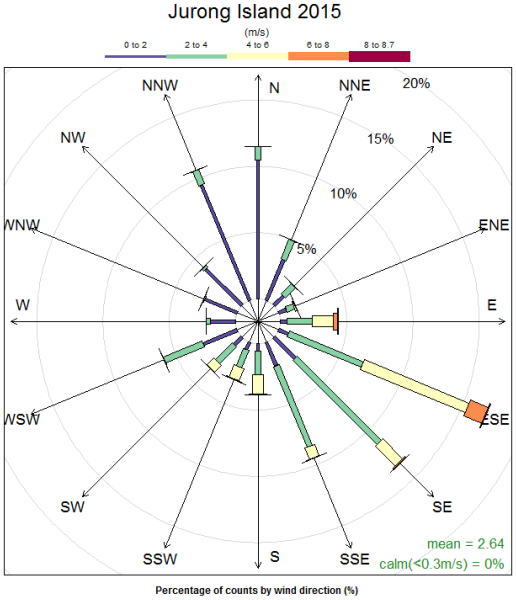
Percentage of counts by wind direction (%)

Jurong (West) 2015



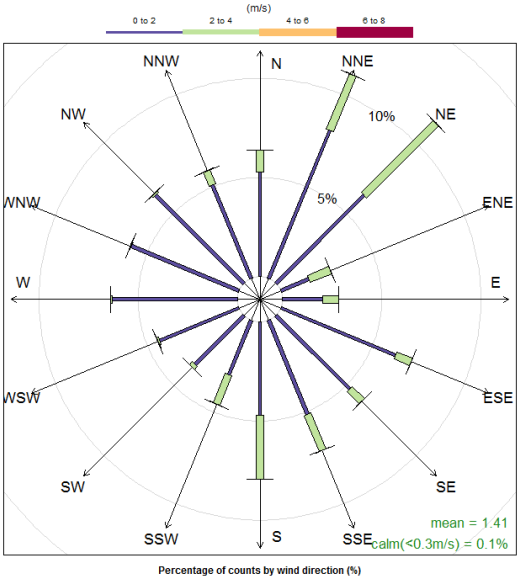
Percentage of counts by wind direction (%)

Jurong Island 2015



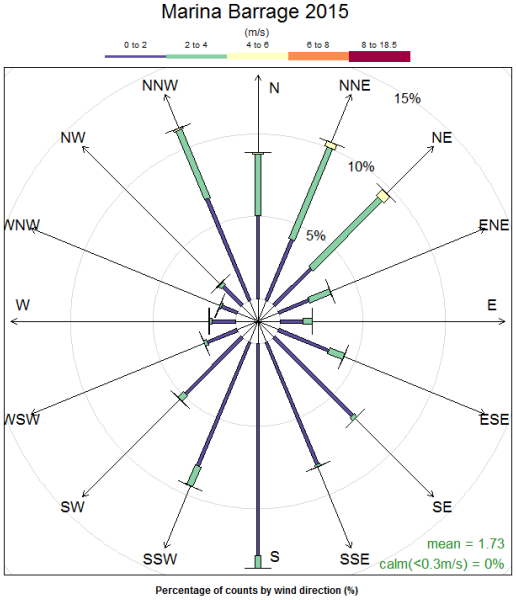
Percentage of counts by wind direction (%)

Khatib 2015



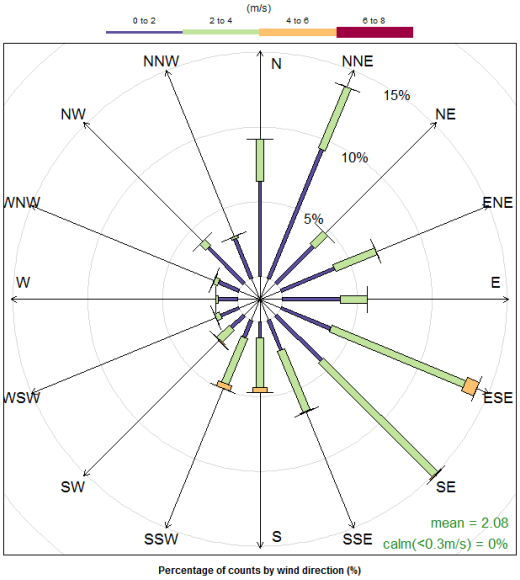
Percentage of counts by wind direction (%)

Marina Barrage 2015



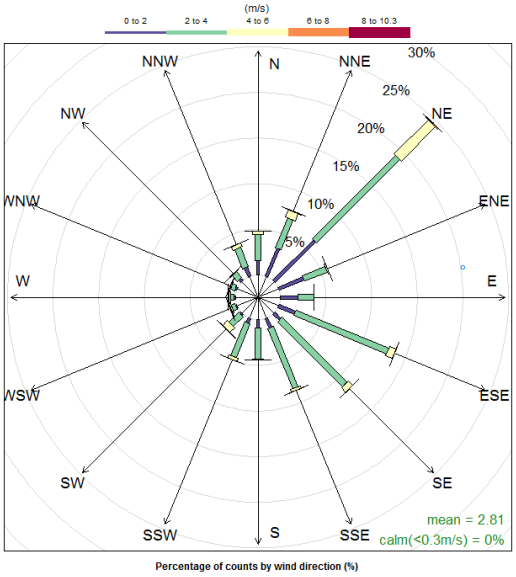
Percentage of counts by wind direction (%)

Newton 2015

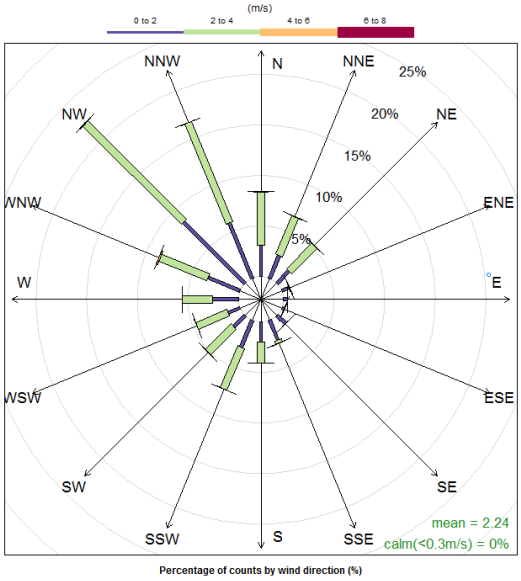


Percentage of counts by wind direction (%)

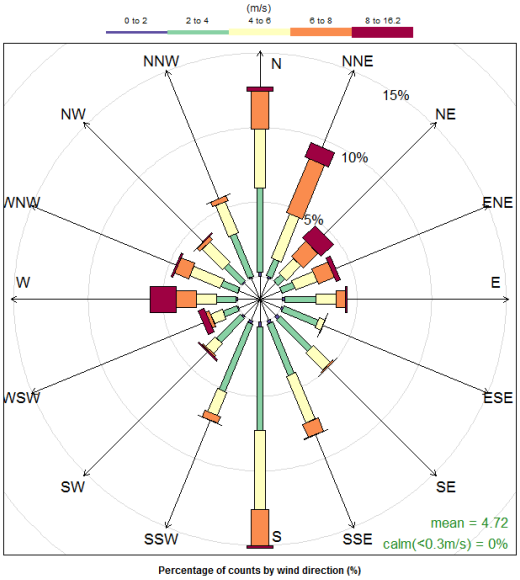
Pasir Panjang 2015



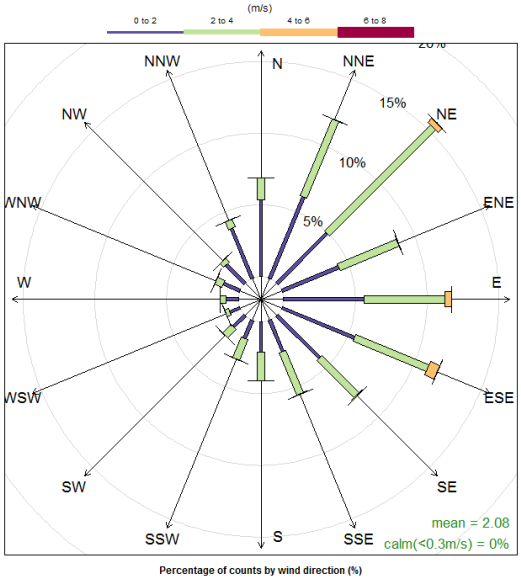
Pulau Ubin 2015



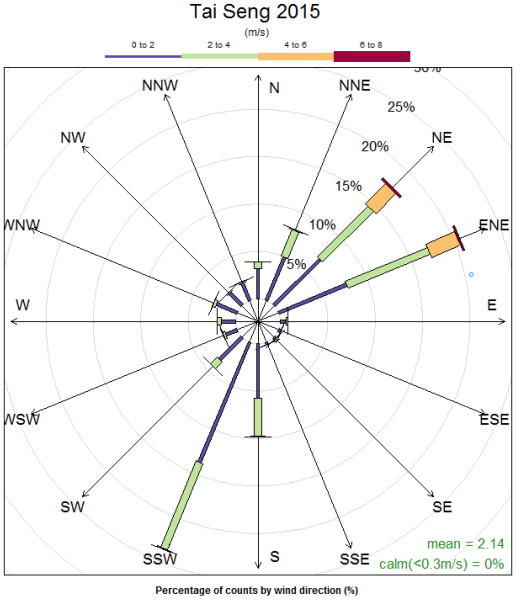
Semakau Island 2015



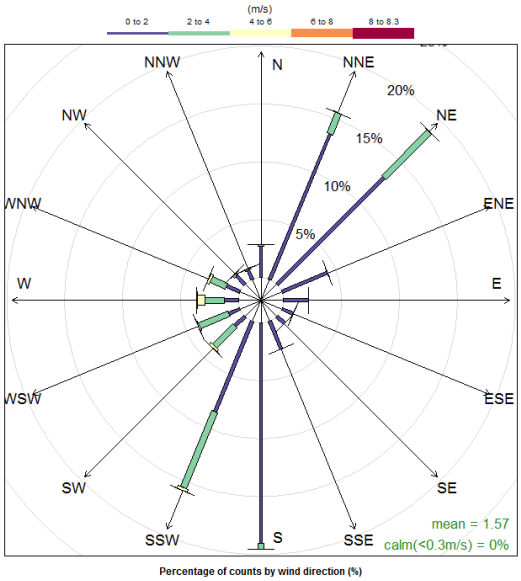
Sentosa Island 2015



Tai Seng 2015

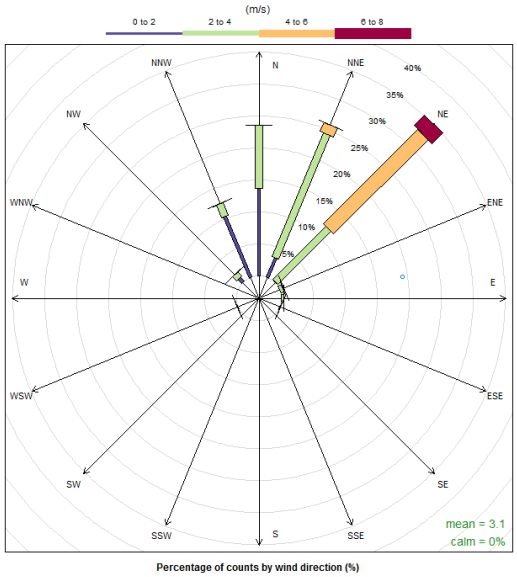


Tuas South 2015



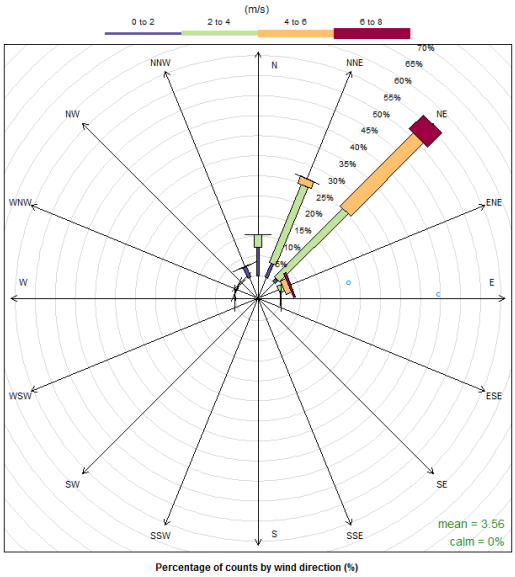
11.2. Monthly Wind Rose of Changi Climate Station

Changi Jan 2015



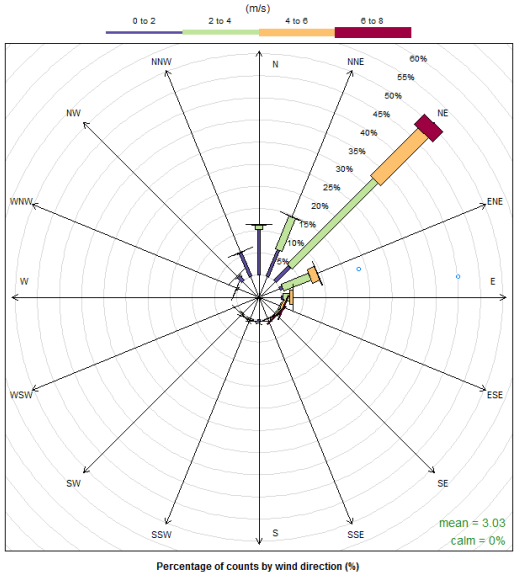
Percentage of counts by wind direction (%)

Changi Feb 2015



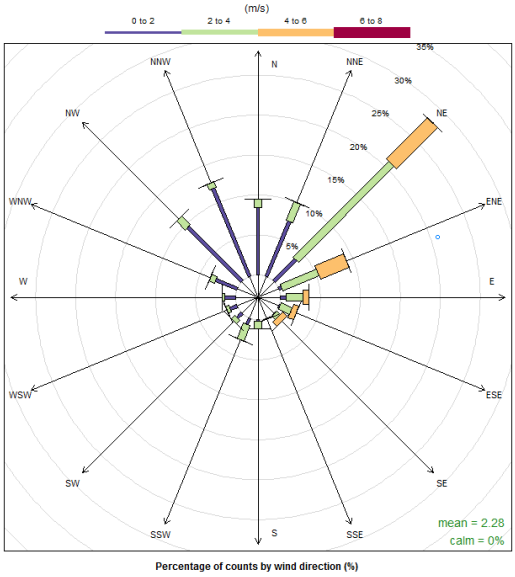
Percentage of counts by wind direction (%)

Changi Mar 2015



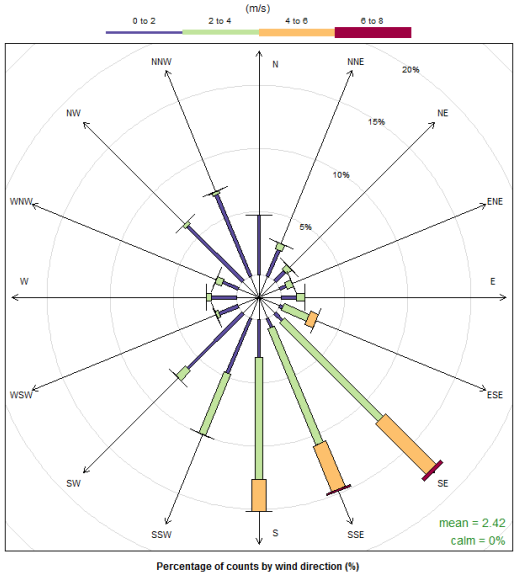
Percentage of counts by wind direction (%)

Changi Apr 2015



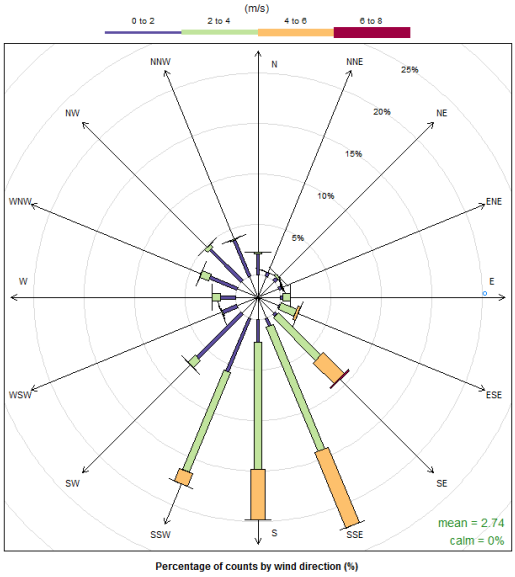
Percentage of counts by wind direction (%)

Changi May 2015



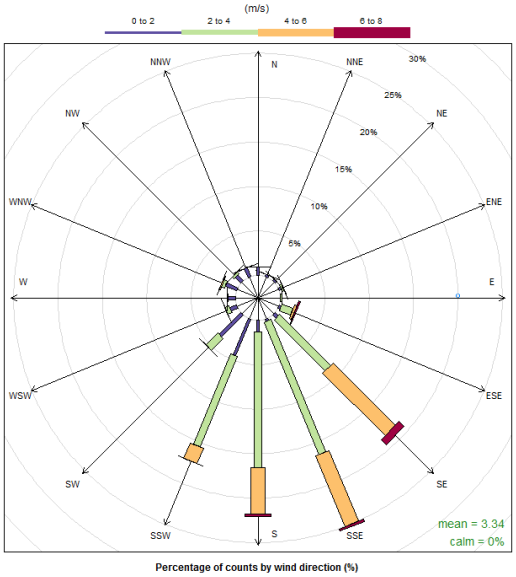
Percentage of counts by wind direction (%)

Changi Jun 2015



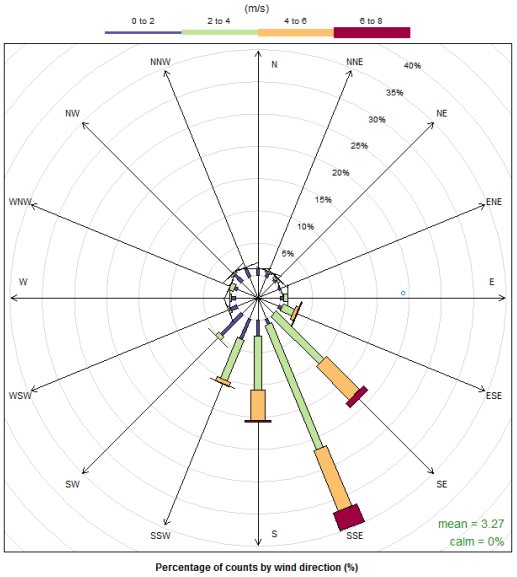
Percentage of counts by wind direction (%)

Changi Jul 2015



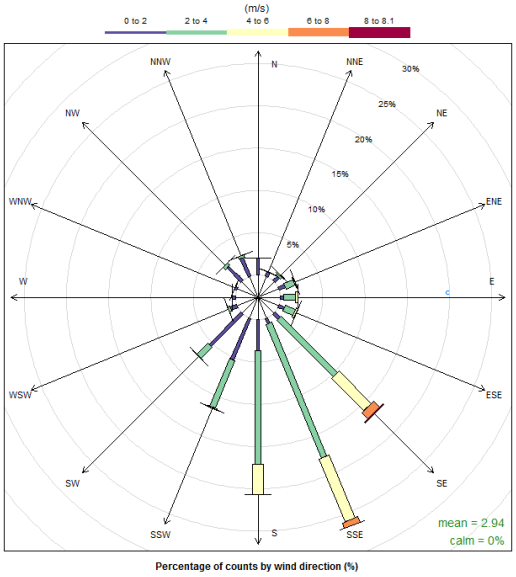
Percentage of counts by wind direction (%)

Changi Aug 2015



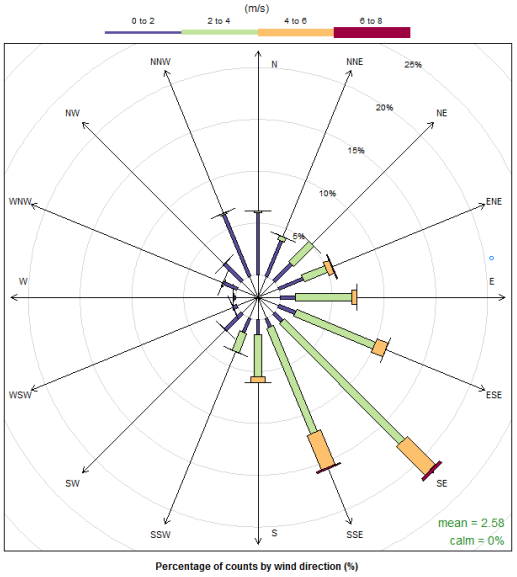
Percentage of counts by wind direction (%)

Changi Sep 2015



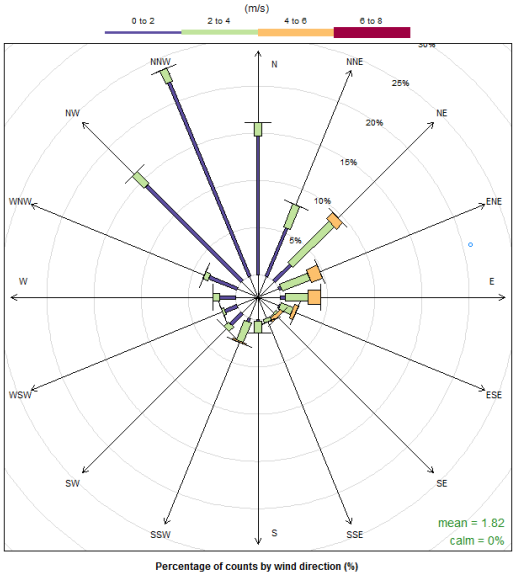
Percentage of counts by wind direction (%)

Changi Oct 2015



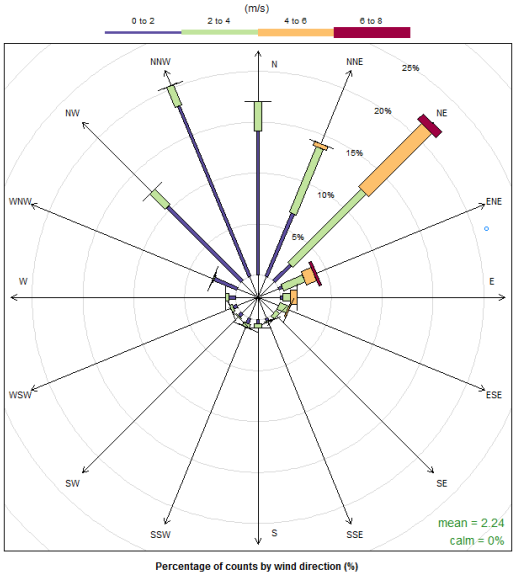
Percentage of counts by wind direction (%)

Changi Nov 2015



Percentage of counts by wind direction (%)

Changi Dec 2015



Percentage of counts by wind direction (%)

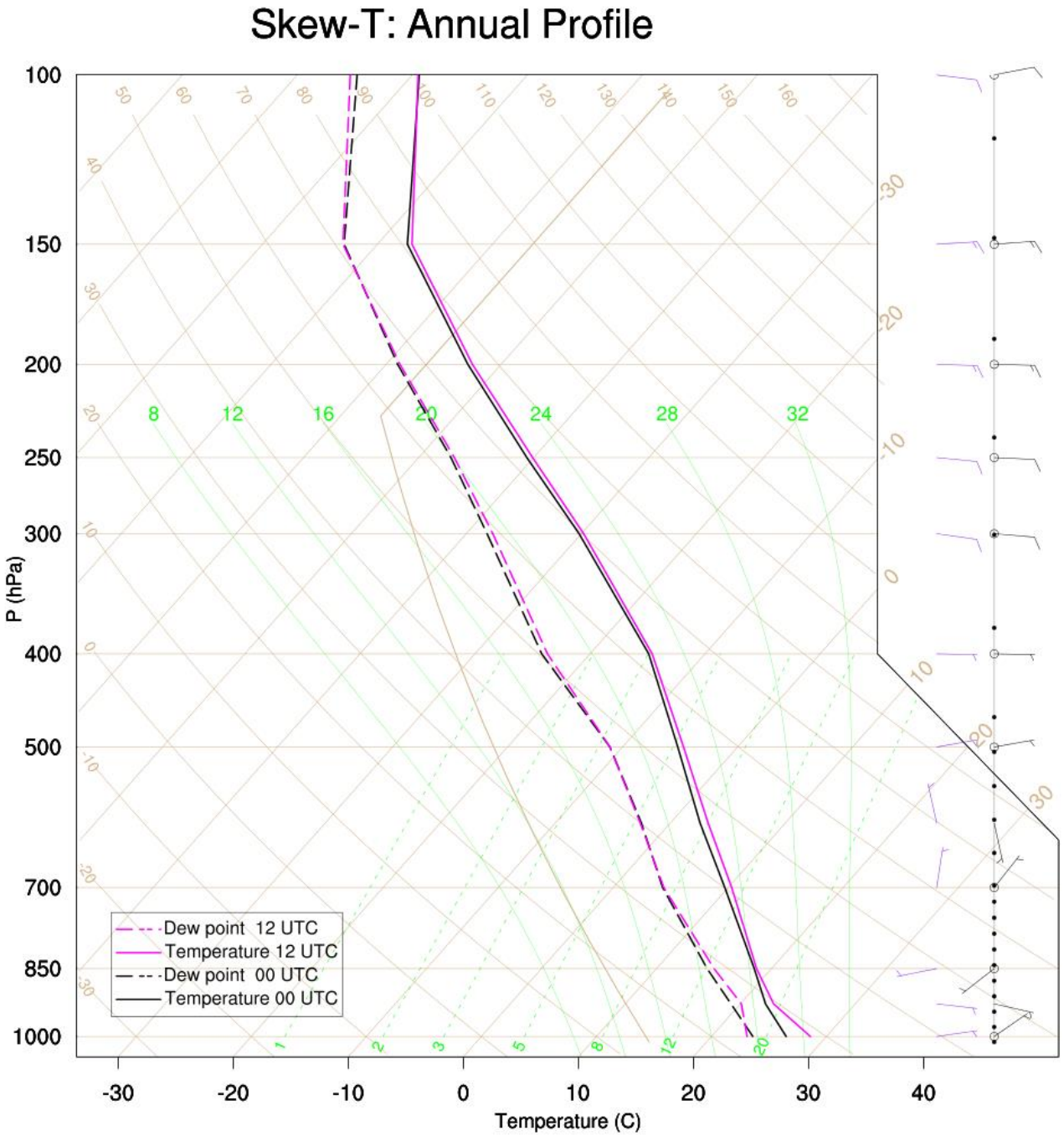
12. Upper Air Data

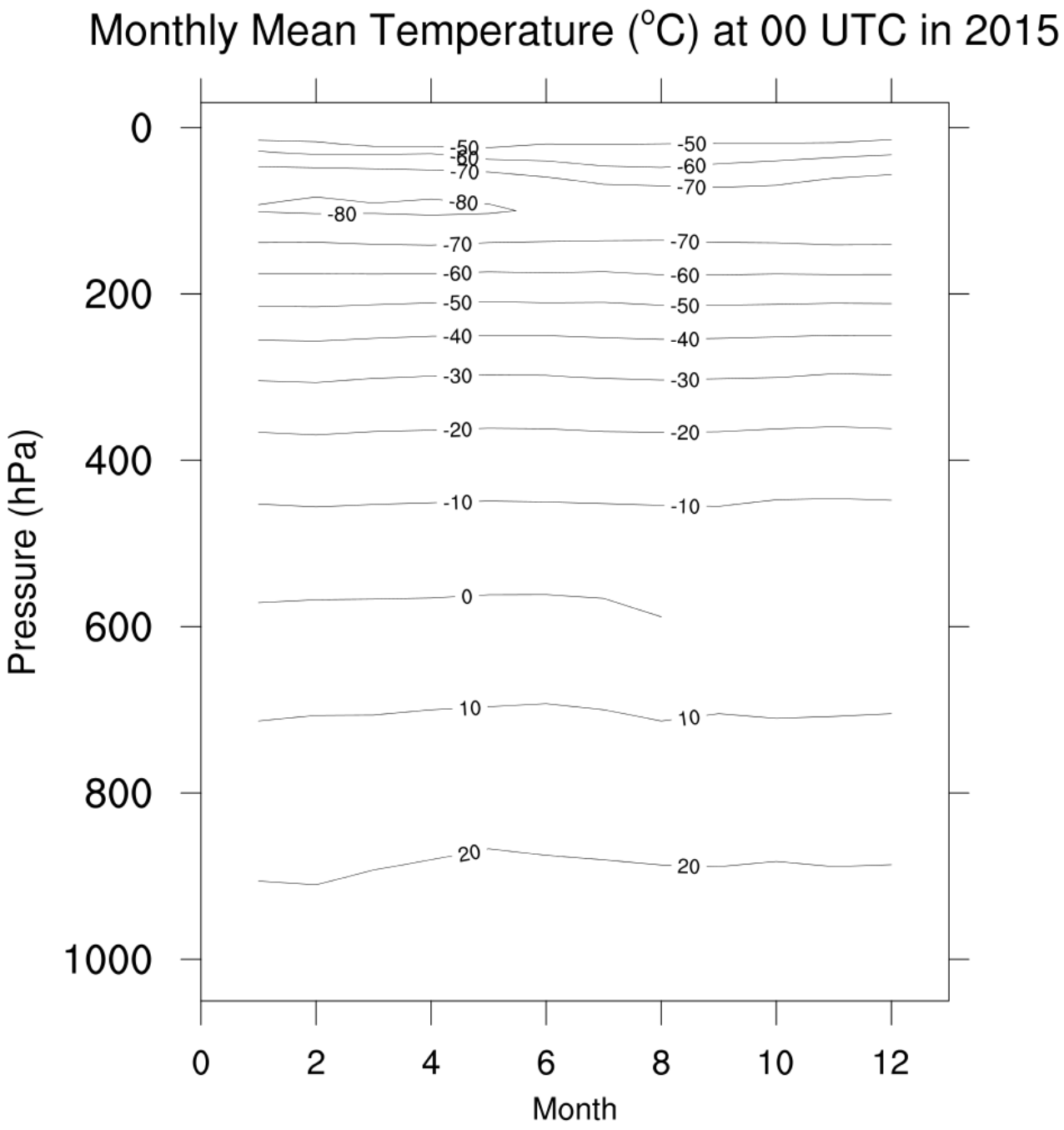
Temperature (°C) at 00 UTC and 12 UTC
Singapore, 2015

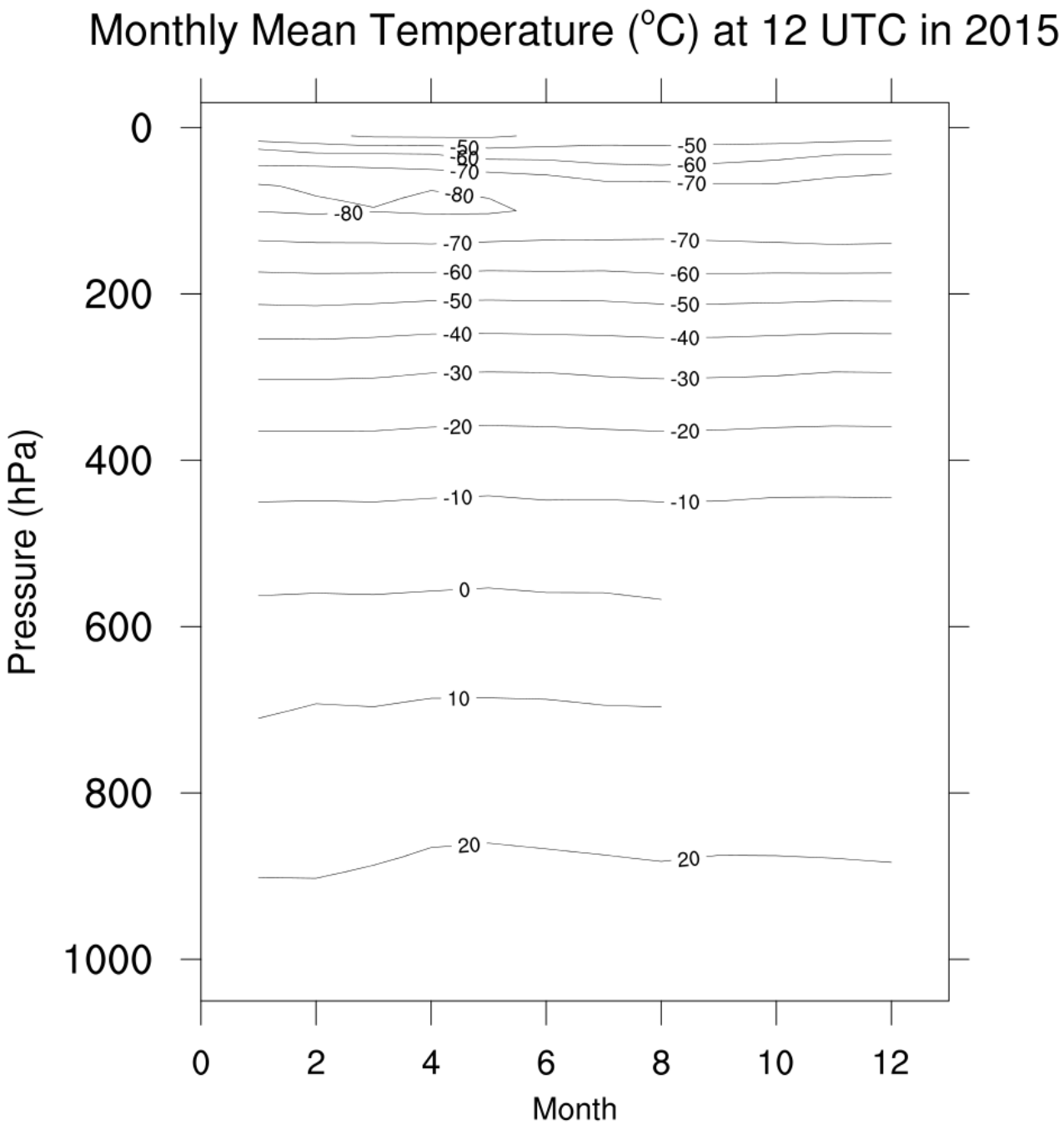
Pressure	Time	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1000	00 UTC	24.8	24.7	26.1	26.6	27.7	27.9	27.9	26.5	27.1	26.7	26.1	26.1
	12 UTC	27.1	27.9	28.6	29.0	29.3	29.8	29.6	28.7	28.7	29.1	27.9	27.9
925	00 UTC	21.1	20.7	21.8	22.6	23.1	23.0	22.8	22.4	22.0	22.5	22.4	22.3
	12 UTC	21.5	21.4	22.5	23.5	23.9	23.6	23.4	22.7	23.0	23.2	22.9	22.7
850	00 UTC	17.5	17.7	18.3	18.8	19.4	19.0	18.7	18.4	18.5	18.7	18.2	18.5
	12 UTC	17.5	17.5	18.3	19.4	19.6	19.3	18.9	18.6	19.0	18.9	18.8	18.5
700	00 UTC	9.2	9.6	9.6	10.0	10.2	10.4	10.0	9.1	9.7	9.3	9.5	9.7
	12 UTC	9.4	10.4	10.2	10.8	10.8	10.7	10.3	10.2	10.1	10.0	10.2	10.2
600	00 UTC	2.3	2.8	2.8	2.8	3.3	3.4	2.8	0.8	—	—	—	—
	12 UTC	3.1	3.3	3.2	3.5	3.8	3.7	3.3	2.5	—	—	—	—
500	00 UTC	-5.4	-5.6	-5.4	-5.1	-5.1	-5.2	-5.2	-5.6	-5.8	-4.9	-4.8	-4.8
	12 UTC	-5.0	-4.7	-4.9	-4.5	-4.2	-5.1	-4.6	-4.9	-4.9	-4.5	-4.4	-4.5
400	00 UTC	-15.0	-15.5	-15.1	-15.0	-14.6	-14.7	-15.1	-15.1	-15.1	-14.5	-14.3	-14.7
	12 UTC	-14.9	-14.9	-15.0	-14.5	-14.2	-14.4	-14.7	-15.0	-14.8	-14.3	-14.3	-14.4
300	00 UTC	-30.9	-31.3	-30.3	-29.8	-29.6	-29.7	-30.3	-30.7	-30.4	-30.1	-29.4	-29.6
	12 UTC	-30.6	-30.6	-30.2	-29.3	-29.1	-29.2	-29.9	-30.4	-30.1	-29.8	-29.1	-29.2
250	00 UTC	-41.3	-41.6	-40.8	-40.2	-39.9	-40.0	-40.6	-41.1	-40.8	-40.4	-39.9	-40.1
	12 UTC	-40.9	-41.1	-40.5	-39.5	-39.3	-39.6	-40.0	-40.6	-40.5	-40.0	-39.3	-39.4
200	00 UTC	-53.5	-53.6	-53.1	-52.6	-52.2	-52.6	-52.3	-53.2	-53.3	-53.1	-52.8	-52.9
	12 UTC	-53.0	-53.4	-52.8	-52.0	-51.8	-52.0	-52.0	-52.9	-52.9	-52.6	-52.1	-52.2
150	00 UTC	-67.0	-66.6	-67.5	-67.7	-66.8	-67.1	-66.6	-67.9	-67.9	-67.4	-68.2	-68.0
	12 UTC	-66.2	-66.7	-67.1	-67.3	-66.4	-66.6	-66.3	-67.3	-67.5	-67.2	-67.9	-67.6
100	00 UTC	-80.4	-81.2	-81.0	-81.7	-81.1	-78.8	-79.3	-75.5	-77.0	-79.3	-78.7	-79.1
	12 UTC	-80.3	-81.4	-80.3	-81.3	-81.2	-78.7	-79.1	-76.3	-76.9	-79.4	-79.4	-79.3
70	00 UTC	-78.3	-78.7	-76.9	-77.4	-76.0	-74.9	-70.8	-70.0	-69.4	-70.2	-73.0	-74.8
	12 UTC	-80.7	-78.7	-77.4	-79.6	-78.4	-76.6	-72.5	-72.5	-70.9	-70.9	-73.2	-75.3
50	00 UTC	-71.6	-71.1	-70.3	-69.6	-68.8	-65.4	-61.2	-60.7	-62.4	-63.5	-66.2	-67.6
	12 UTC	-72.0	-72.2	-71.0	-69.8	-68.2	-66.4	-63.1	-61.9	-62.6	-63.6	-66.6	-67.9
30	00 UTC	-60.8	-58.2	-58.2	-59.1	-52.9	-53.9	-54.6	-53.8	-54.6	-56.1	-56.9	-58.5
	12 UTC	-62.2	-59.6	-59.1	-58.7	-53.6	-54.3	-53.0	-53.5	-55.0	-56.6	-58.6	-59.0
20	00 UTC	-54.8	-52.8	-46.5	-46.1	-47.3	-50.2	-49.7	-50.3	-50.8	-50.8	-51.1	-53.4
	12 UTC	-55.2	-50.9	-47.5	-48.3	-45.6	-47.8	-49.6	-49.3	-49.7	-50.5	-53.0	-54.5
10	00 UTC	-45.0	-44.1	-41.8	-40.8	-41.5	-43.8	-44.4	-43.8	-45.8	-45.2	-45.7	-47.4
	12 UTC	-41.4	-41.6	-39.0	-38.5	-38.7	-41.4	-42.4	-44.6	-44.3	-44.0	-43.2	-44.8

Dew Point (°C) at 00 UTC and 12 UTC
Singapore, 2015

Pressure	Time	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1000	00 UTC	21.5	21.8	23.4	24.1	25.1	24.7	24.5	23.6	24.0	23.8	23.6	23.8
	12 UTC	21.6	21.2	23.1	23.9	24.2	23.7	23.1	23.2	23.2	22.6	23.5	23.3
925	00 UTC	17.7	17.5	19.0	19.4	20.6	20.2	19.8	19.0	19.4	17.8	19.8	19.7
	12 UTC	18.5	18.6	20.0	20.6	20.8	20.3	20.2	20.0	20.0	20.2	20.4	20.2
850	00 UTC	13.6	13.4	14.2	14.9	15.7	15.7	14.6	14.1	13.1	11.8	15.5	14.4
	12 UTC	14.4	14.6	15.7	15.9	15.9	15.6	15.2	14.9	13.6	13.5	15.7	15.0
700	00 UTC	4.4	1.2	4.0	5.0	6.3	4.1	3.5	4.9	1.6	3.1	6.4	5.5
	12 UTC	4.0	1.7	3.7	5.1	6.5	3.7	3.8	4.3	2.9	3.7	6.7	6.0
600	00 UTC	-2.4	-4.4	-3.6	-1.6	-1.5	-3.9	-2.7	-0.5	—	—	—	—
	12 UTC	-3.3	-4.4	-2.8	-1.9	-1.4	-4.3	-3.5	-0.9	—	—	—	—
500	00 UTC	-10.9	-12.6	-11.7	-10.9	-9.7	-10.4	-11.8	-11.7	-12.1	-13.7	-8.6	-9.8
	12 UTC	-11.0	-13.3	-11.7	-11.5	-9.2	-11.3	-11.6	-11.9	-11.3	-14.1	-8.0	-9.0
400	00 UTC	-23.1	-25.0	-24.1	-22.0	-23.2	-22.6	-25.2	-26.6	-29.2	-27.3	-21.6	-21.8
	12 UTC	-23.3	-26.1	-24.5	-21.8	-22.1	-21.9	-25.9	-26.2	-27.2	-28.1	-19.4	-20.5
300	00 UTC	-38.1	-39.6	-39.8	-38.9	-38.4	-38.3	-39.3	-38.8	-41.5	-40.9	-36.9	-36.9
	12 UTC	-37.3	-39.6	-40.2	-38.6	-37.3	-38.1	-38.5	-38.5	-40.4	-41.2	-35.1	-36.2
250	00 UTC	-47.9	-48.9	-48.3	-48.2	-48.6	-47.4	-47.8	-47.3	-47.8	-48.2	-47.1	-46.0
	12 UTC	-48.0	-48.8	-48.7	-49.7	-47.0	-47.4	-46.5	-47.6	-48.1	-48.9	-45.3	-45.2
200	00 UTC	-59.6	-60.2	-59.8	-59.9	-59.9	-59.1	-58.8	-59.3	-59.6	-59.3	-59.3	-58.1
	12 UTC	-59.9	-60.8	-60.4	-60.5	-58.9	-58.6	-58.4	-59.4	-59.2	-59.0	-57.7	-58.2
150	00 UTC	-72.6	-73.2	-73.2	-73.0	-72.9	-72.7	-72.1	-73.4	-73.9	-73.4	-73.0	-73.4
	12 UTC	-72.8	-74.2	-73.7	-74.2	-72.3	-72.7	-72.2	-73.0	-73.9	-73.4	-72.9	-73.0
100	00 UTC	-84.0	-86.1	-85.3	-85.9	-85.4	-84.1	-84.0	-84.1	-84.6	-85.8	-85.4	-86.3
	12 UTC	-85.2	-87.7	-85.8	-87.5	-85.8	-84.3	-84.1	-84.6	-84.9	-85.7	-85.2	-86.1
70	00 UTC	-85.0	-88.0	-85.9	-87.4	-85.6	-88.8	-79.9	-89.9	-89.4	-87.8	-86.7	-86.9
	12 UTC	-87.6	-88.3	-87.1	-88.0	-86.7	-86.7	-81.7	-89.7	-88.4	-87.5	-86.9	-86.9
50	00 UTC	-98.3	-97.9	-97.4	-96.9	-92.7	-93.9	-87.1	-86.7	-88.0	-88.8	-88.6	-89.6
	12 UTC	-98.6	-98.7	-92.2	-97.0	-95.9	-94.6	-88.5	-87.6	-88.1	-88.9	-88.9	-89.9
30	00 UTC	-90.7	-88.8	-88.8	-89.5	-85.2	-85.9	-86.3	-85.8	-86.3	-87.4	-83.9	-85.1
	12 UTC	-91.6	-89.8	-89.5	-89.2	-85.7	-86.1	-85.2	-85.6	-86.6	-87.7	-85.2	-85.5
20	00 UTC	-86.5	-85.1	-80.8	-80.5	-81.3	-83.3	-83.0	-83.4	-83.7	-83.7	-83.9	-85.5
	12 UTC	-86.8	-83.8	-81.5	-82.0	-80.2	-81.7	-82.9	-82.7	-83.0	-83.5	-85.2	-86.3
10	00 UTC	-79.8	-79.2	-77.6	-76.9	-77.4	-78.9	-79.4	-78.9	-80.3	-79.9	-80.2	-81.4
	12 UTC	-77.3	-77.5	-75.7	-75.4	-75.5	-77.3	-78.0	-79.5	-79.3	-79.1	-78.5	-79.6

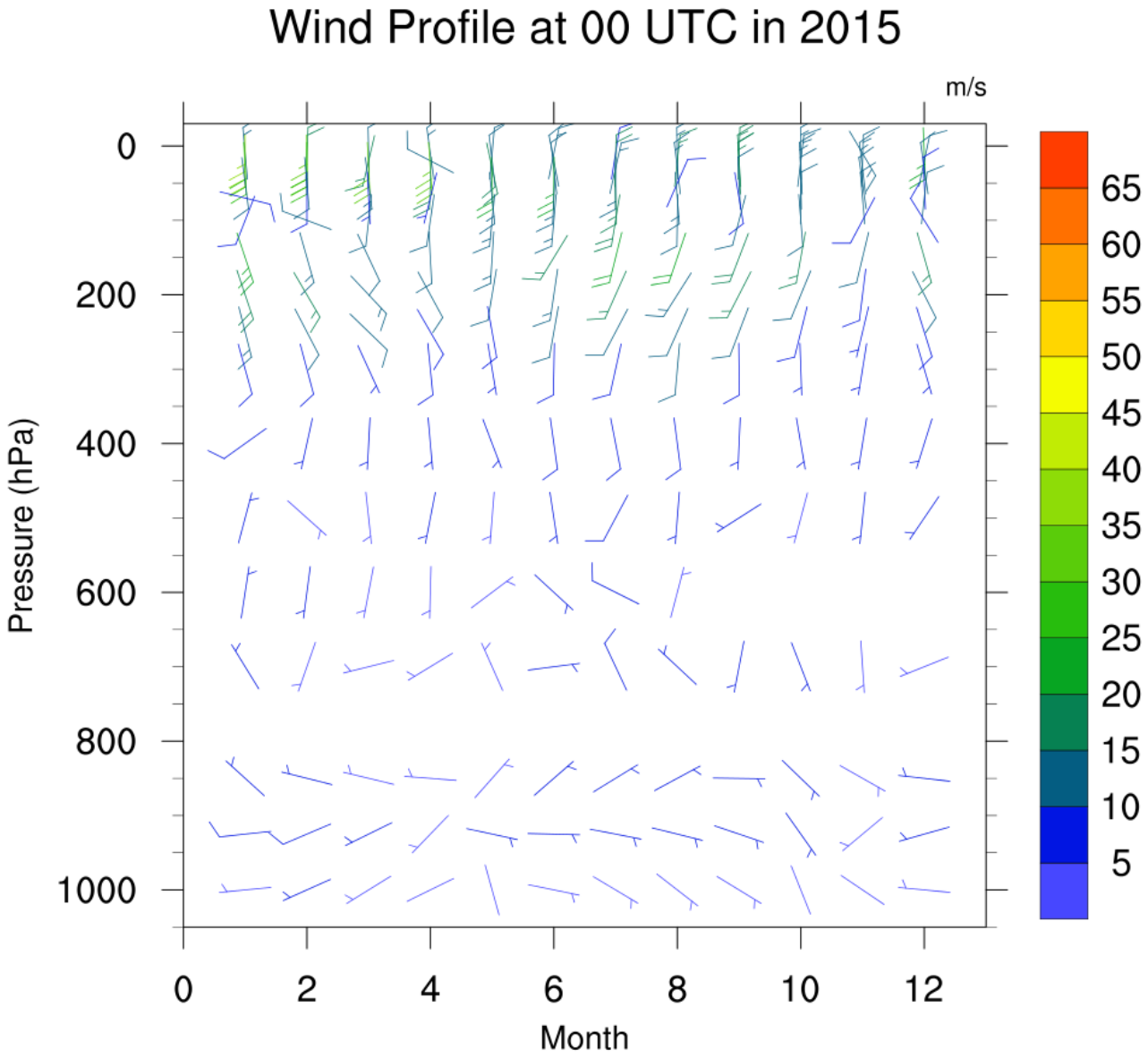

Skew-T: Annual Profile
P (hPa)
Temperature (C)
Dew point 12 UTC
Temperature 12 UTC
Dew point 00 UTC
Temperature 00 UTC

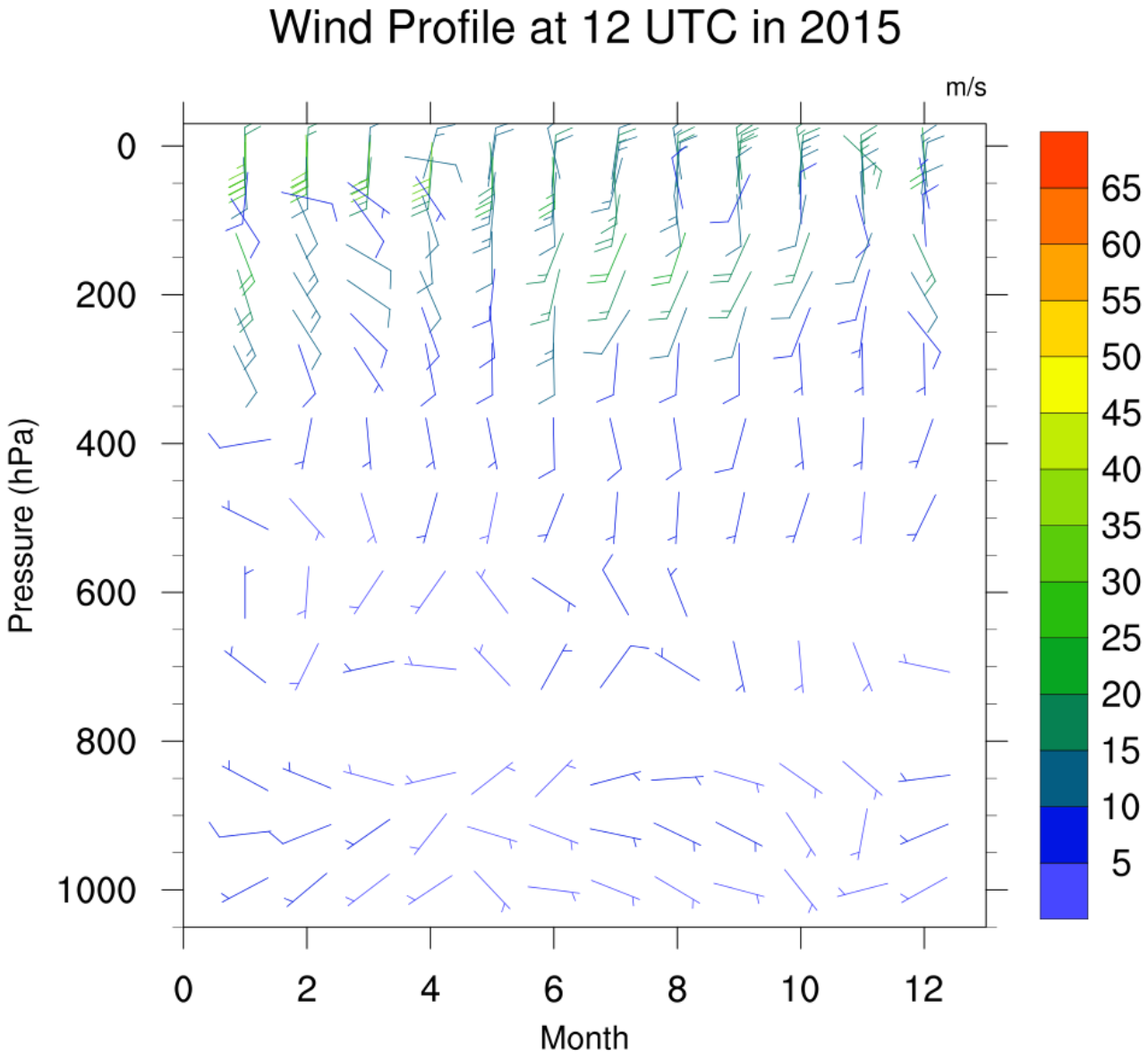

Monthly Mean Temperature (°C) at 00 UTC in 2015
Pressure (hPa)
0
200
400
600
800
1000
0
2
4
6
8
10
12
Month
-50
-60
-70
-80
-70
-60
-50
-40
-30
-20
-10
0
10
20


Monthly Mean Temperature (°C) at 12 UTC in 2015
Pressure (hPa)
0
200
400
600
800
1000
0
2
4
6
8
10
12
Month
-50
-60
-70
-80
-70
-60
-50
-40
-30
-20
-10
0
10
20

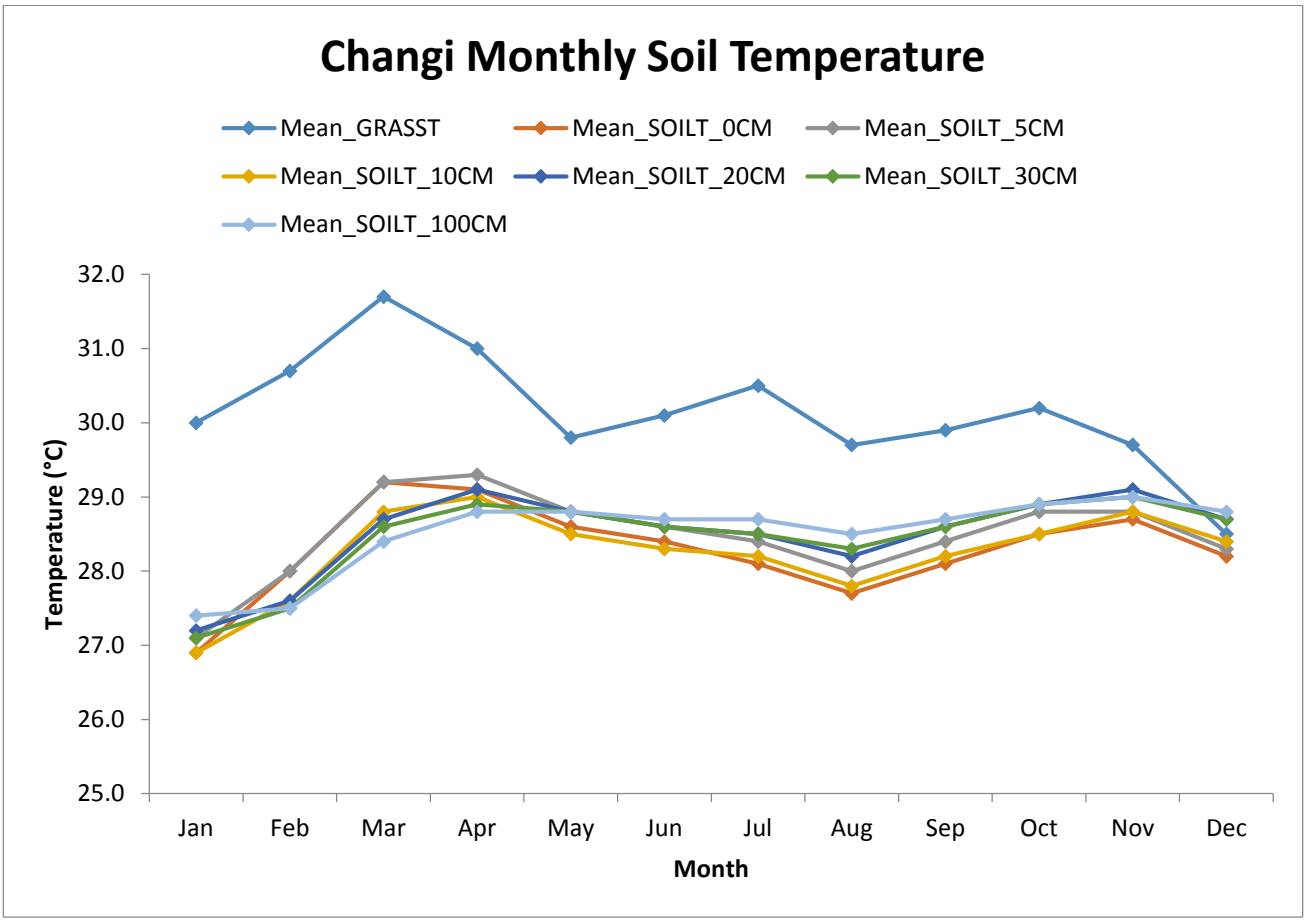
Wind Speed (m/s) at 00 UTC and 12 UTC
Singapore, 2015

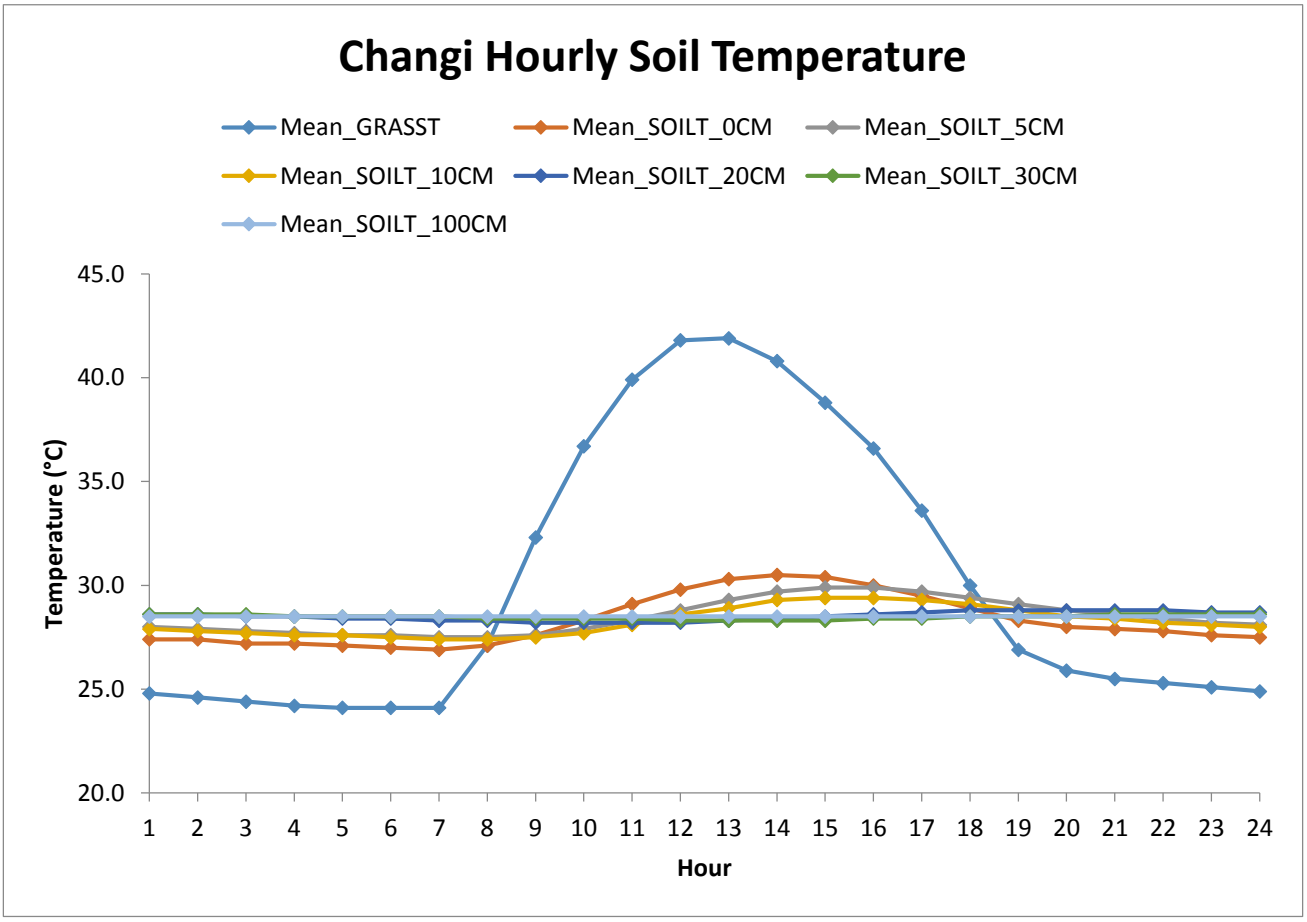
Pressure	Time	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1000	00 UTC	4.5	5.2	3.6	2.2	2.1	2.9	3.2	2.8	2.6	2.2	2.1	3.4
	12 UTC	5.8	6.1	4.6	3.3	2.7	3.4	3.4	4.2	3.3	2.9	2.5	4.4
925	00 UTC	9.9	9.1	6.2	4.6	5.5	6.5	7.3	6.2	6.2	5.7	3.2	7.4
	12 UTC	8.5	7.8	6.0	4.7	4.5	4.6	5.8	6.3	5.6	4.1	3.2	6.5
850	00 UTC	5.9	5.3	4.2	3.3	3.9	5.4	6.8	5.2	5.9	5.7	4.2	5.4
	12 UTC	6.1	5.5	4.6	3.4	3.3	4.9	5.8	5.1	5.0	4.5	3.2	5.7
700	00 UTC	6.5	3.7	4.8	3.8	4.0	5.4	7.6	5.8	5.4	5.3	4.9	4.7
	12 UTC	6.1	3.6	5.5	4.2	3.5	5.6	8.1	5.9	5.1	4.5	4.5	4.7
600	00 UTC	5.2	5.6	4.9	4.5	3.8	5.6	7.8	3.8	—	—	—	—
	12 UTC	5.4	5.0	4.7	4.3	3.6	5.6	7.6	6.7	—	—	—	—
500	00 UTC	6.6	4.3	4.6	5.9	4.6	5.9	7.6	7.0	5.7	5.0	5.8	5.7
	12 UTC	7.0	4.4	4.7	5.6	4.4	6.2	6.8	6.3	6.1	5.4	5.0	5.1
400	00 UTC	7.9	6.6	6.6	7.1	5.1	7.8	7.8	9.0	7.4	6.3	5.6	6.7
	12 UTC	8.8	6.5	7.1	6.2	5.8	8.2	8.1	8.7	8.4	7.2	5.3	6.4
300	00 UTC	8.7	8.5	7.2	8.1	7.4	9.4	9.5	10.2	9.3	7.2	6.0	6.7
	12 UTC	10.5	9.0	7.1	9.1	7.6	10.4	9.9	9.6	9.6	7.4	5.9	7.0
250	00 UTC	13.5	10.8	10.2	9.7	8.8	12.5	10.4	11.5	11.7	8.7	7.3	8.3
	12 UTC	13.3	11.4	10.0	9.8	8.4	12.6	10.3	10.8	10.5	8.1	6.8	7.7
200	00 UTC	19.1	16.1	12.7	10.5	11.2	14.8	17.4	14.6	15.1	11.4	8.8	10.7
	12 UTC	17.6	14.1	12.2	10.8	9.8	16.0	16.3	15.4	15.8	10.1	8.1	10.4
150	00 UTC	23.0	13.1	12.2	11.0	12.7	15.7	21.2	22.1	18.6	15.7	12.0	16.9
	12 UTC	21.6	13.6	11.7	10.2	11.7	15.8	20.1	22.2	18.9	15.1	10.3	15.9
100	00 UTC	7.9	10.9	11.5	11.0	13.0	12.6	18.0	11.3	12.4	12.3	8.4	8.3
	12 UTC	8.0	11.2	9.9	10.3	12.9	12.2	17.8	12.0	11.9	11.3	8.0	7.9
70	00 UTC	7.9	8.7	6.8	6.6	14.7	14.3	16.9	14.6	8.9	10.5	10.4	11.7
	12 UTC	8.5	9.9	5.9	7.2	14.0	12.9	16.7	14.3	9.7	9.6	11.6	10.5
50	00 UTC	12.0	11.9	15.0	18.8	21.5	23.7	13.2	9.9	12.4	11.4	11.8	7.8
	12 UTC	12.4	12.0	15.2	19.2	22.0	23.0	13.9	7.8	12.2	10.8	10.2	7.2
30	00 UTC	28.1	29.6	31.8	32.9	18.3	11.3	13.0	14.6	16.0	14.3	14.9	11.1
	12 UTC	27.9	29.9	31.4	30.2	17.7	11.6	14.9	13.5	17.4	14.1	15.4	11.9
20	00 UTC	36.4	33.2	15.9	10.4	10.2	12.3	17.7	15.8	19.3	14.4	14.0	10.4
	12 UTC	34.5	31.1	17.3	10.6	11.8	15.9	16.8	18.1	19.3	15.5	16.2	13.6
10	00 UTC	13.6	18.0	11.5	13.8	10.4	13.1	9.4	13.9	16.8	14.4	14.8	23.1
	12 UTC	17.8	17.1	11.9	15.0	11.2	11.2	11.6	14.8	19.9	15.3	15.6	23.4


Wind Profile at 00 UTC in 2015
m/s
Pressure (hPa)
0
200
400
600
800
1000
0
2
4
6
8
10
12
Month
65
60
55
50
45
40
35
30
25
20
15
10
5


Wind Profile at 12 UTC in 2015
m/s
Pressure (hPa)
0
200
400
600
800
1000
0
2
4
6
8
10
12
Month
65
60
55
50
45
40
35
30
25
20
15
10
5

13. Soil Data


Changi Monthly Soil Temperature
Mean_GRASST
Mean_SOILT_0CM
Mean_SOILT_5CM
Mean_SOILT_10CM
Mean_SOILT_20CM
Mean_SOILT_30CM
Mean_SOILT_100CM
Temperature (°C)
32.0
31.0
30.0
29.0
28.0
27.0
26.0
25.0
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month


Changi Hourly Soil Temperature
Mean_GRASST
Mean_SOILT_0CM
Mean_SOILT_5CM
Mean_SOILT_10CM
Mean_SOILT_20CM
Mean_SOILT_30CM
Mean_SOILT_100CM
Temperature (°C)
45.0
40.0
35.0
30.0
25.0
20.0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
Hour

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
		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
06	Paya Lebar Meteorological Station	Pressure	1 Aug, 1955 to 1 Jan, 1982	F Darton& Company[8]	Indoor
			1 Jan, 1982 to Present	Negretti and Zambra[9]	Outdoor
		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
23	Tengah 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
25	Seletar Meteorological Station	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

[4] www.lambrecht.net
[5] www.vaisala.com
[6] www.zeal.co.uk and www.casellameasurement.com/cl_ne_manual.htm
[7] www.munroinstruments.com
[8] www.russell-scientific.co.uk
[9] www.negrettiandzambra.co.uk
[10] www.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

[11] www.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 Treament Work	1 Jan, 1949	20 Mar, 1975	-	1°23.15	103°55.41
	Serangoon Sewage Treament Work	21 Mar, 1975	29 Apr, 1977	Natural	1°23.15	103°55.41
	Serangoon Sewage Treament Work	30 Apr, 1977	30 Apr, 1987	Tilting	1°23.15	103°55.41
	Serangoon Sewage Treament 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
40	Singapore Orchid's	16 Oct, 1965	7 May, 1987	Tilting	1°24.40	103°47.00

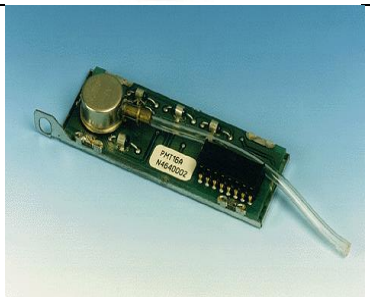
Station Number	Location	Operational Period		Instruments	Lat.(N)	Long. (E)
	Singapore Orchid's	8 May, 1987	31 Mar, 2010	Hellmann	1°24.40	103°47.00
	Singapore Orchid's	11 Dec, 2009	Present	Vaisala	1°24.40	103°46.99
43	Upper Air Observatory	1 Apr, 1962	31 Dec, 2011	Tilting	1°20.44	103°53.29
	Upper Air Observatory	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	1Jul, 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
	Punggol 17th 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

Station Number	Location	Operational Period		Instruments	Lat.(N)	Long. (E)
	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	• 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	• 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	• 12 plate plastic shield to house humidity and temperature sensors • White outer surface, black inner surface	
Vaisala WMT50 Ultrasonic Wind Sensor	• 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	• Measurement range from 600 to 1100 hPa • Total uncertainty ± 0.3 hPa	

Kipp & Zonen CNR 1 Net Radiometer	• Measures short and long-wave radiation • Response time less than 18 seconds • Daily uncertainty ± 10%	
Kipp & Zonen CUV 4 Broadband UV Radiometer	• 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	• Spectral range 280 to 315 nm • Response time less than 0.5 second	
Vaisala CL31 Celiometer	• 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	• Measurement range from 10 to 50000 m • Instrument uncertainty ± 4%	
Nova Lynx Model 255-100 Analog Output Evaporation Gauge	• Measurement range from 0 to 10 inches • Reporting resolution in 0.01 inches • Uncertainty ± 0.25%	

Table 8: Current list of instruments in use in MSS