

# 每月天氣摘要 二零二二年十二月

## Monthly Weather Summary December 2022

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香港天文台編製  
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## 1. 二零二二年十二月天氣回顧

由於影響華南的東北季候風在本月較正常強，二零二二年十二月香港較正常寒冷。本月平均氣溫為 16.6 度，較正常值 18.2 度低 1.6 度。本月總雨量為 25.7 毫米，較正常值 28.8 毫米少約百分之 11。二零二二年總雨量為 2205.4 毫米，較正常值 2431.2 毫米少約百分之 9。

受一股強烈東北季候風影響，本月首日本港多雲及天氣相當清涼。翌日本港早上天氣清涼，天色漸轉明朗。隨著東北季候風緩和，十二月三日至四日本港部分時間有陽光，天氣較暖。十二月四日下午天文台氣溫上升至本月最高的 23.3 度。與此同時，一股東北季候風的補充在十二月四日稍後影響廣東。十二月五日本港轉為大致多雲，天氣較涼。

受一股乾燥東北季候風影響，除十二月十一日本港雲量較多外，十二月六日至十二日本港大致天晴及乾燥。受東北季候風的補充及一道廣闊雲雨帶影響，十二月十三日至十六日本港多雲及有幾陣雨。十二月十四日至十五日天氣寒冷。

一股強烈冬季季候風於十二月十六日晚上抵達廣東沿岸。翌日本港北風增強，離岸及高地吹烈風，氣溫顯著下降，早上亦有幾陣雨。十二月十八日至十九日本港天晴及非常乾燥，早上天氣寒冷。天文台氣溫於十二月十八日早上下降至全月最低的 9.4 度。受一股乾燥的東北季候風支配，十二月二十日至二十八日本港持續天晴。十二月二十一日至二十四日日間天氣亦非常乾燥。隨著東北季候風補充的抵達，十二月二十九日早上本港雲量較多及有幾陣微雨。當日下午及本月最後兩天本港再度轉晴及天氣乾燥。十二月三十一日早上本港天氣寒冷。

二零二二年十二月有一個熱帶氣旋影響南海及北太平洋西部。

本月沒有航機因惡劣天氣須轉飛其他地方。表 1.1 載列本月發出及取消各種警告/信號的詳情。



### 1. The Weather of December 2022

With stronger than normal northeast monsoon affecting southern China in the month, the weather of Hong Kong was colder than usual in December 2022. The monthly mean temperature was 16.6 degrees, 1.6 degrees below the normal figure of 18.2 degrees. The monthly total rainfall was 25.7 millimetres, about 11 percent below the normal figure of 28.8 millimetres. The annual total rainfall of 2205.4 millimetres in 2022 was about 9 percent below the annual normal of 2431.2 millimetres.

Under the influence of an intense northeast monsoon, the weather of Hong Kong was cloudy

and rather cool on the first day of the month. The weather became brighter with cool morning the next day. With the moderation of the northeast monsoon, there were sunny periods with warmer weather on 3 – 4 December. The temperatures at the Observatory rose to 23.3 degrees on the afternoon of 4 December, the highest of the month. Meanwhile, a replenishment of the northeast monsoon affected Guangdong later on 4 December. Local weather turned mainly cloudy and cooler on 5 December.

Affected by a dry northeast monsoon, apart from cloudier weather on 11 December, it was mainly fine and dry on 6 – 12 December. Under the influence of the replenishment of the northeast monsoon and a broad band of rain-bearing clouds, the weather of Hong Kong became cloudy with a few rain patches on 13 – 16 December. It was also cold on 14 – 15 December.

An intense winter monsoon reached the coast of Guangdong on the night of 16 December. With winds strengthening from the north and reaching gale force offshore and on high ground, local temperatures fell significantly on 17 December. There were also some rain in that morning. The weather turned fine and very dry with cold mornings on 18 - 19 December. The temperatures at the Observatory dropped to a minimum of 9.4 degrees on the morning of 18 December, the lowest of the month. Dominated by a dry northeast monsoon, local weather remained fine on 20 – 28 December. It was also very dry during the day on 21 – 24 December. With the arrival of the replenishment of the northeast monsoon, the weather turned cloudier with a few light rain patches at first on 29 December, before the returning of fine and dry weather in the afternoon and the last two days of the month. It was also cold on the morning of 31 December.

One tropical cyclone occurred over the South China Sea and the western North Pacific in December 2022

During the month, no aircraft was diverted due to adverse weather. Details of the issuance and cancellation of various warnings/signals in the month are summarized in Table 1.1.

**表 1.1 二零二二年十二月發出的警告及信號**  
**Table 1.1 Warnings and Signals issued in December 2022**

強烈季候風信號

Strong Monsoon Signal

| 開始時間<br>Beginning Time |           | 終結時間<br>Ending Time |           |
|------------------------|-----------|---------------------|-----------|
| 日/月<br>day/month       | 時<br>hour | 日/月<br>day/month    | 時<br>hour |
| 16/12                  | 1620      | 18/12               | 1440      |

雷暴警告

Thunderstorm Warning

| 開始時間<br>Beginning Time |           | 終結時間<br>Ending Time |           |
|------------------------|-----------|---------------------|-----------|
| 日/月<br>day/month       | 時<br>hour | 日/月<br>day/month    | 時<br>hour |
| 17/12                  | 0329      | 17/12               | 0500      |

霜凍警告

Frost Warning

| 開始時間<br>Beginning Time |           | 終結時間<br>Ending Time |           |
|------------------------|-----------|---------------------|-----------|
| 日/月<br>day/month       | 時<br>hour | 日/月<br>day/month    | 時<br>hour |
| 18/12                  | 1630      | 19/12               | 0745      |

寒冷天氣警告

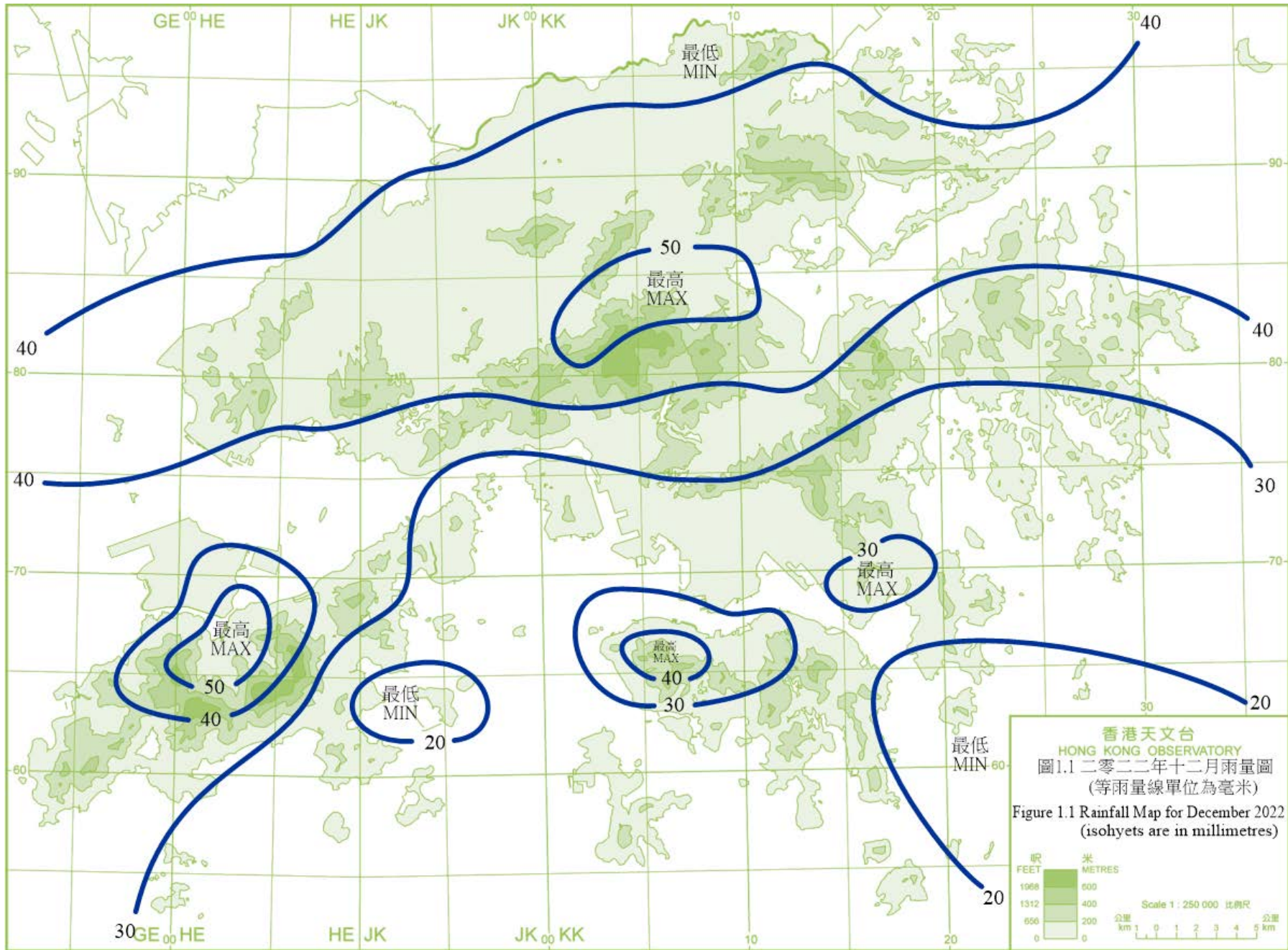
Cold Weather Warning

| 開始時間<br>Beginning Time |           | 終結時間<br>Ending Time |           |
|------------------------|-----------|---------------------|-----------|
| 日/月<br>day/month       | 時<br>hour | 日/月<br>day/month    | 時<br>hour |
| 13/12                  | 1620      | 15/12               | 1145      |
| 16/12                  | 1620      | 20/12               | 0915      |
| 31/12                  | 0605      | 31/12               | 1145      |

火災危險警告

Fire Danger Warnings

| 顏色<br>Colour | 開始時間<br>Beginning Time |           | 終結時間<br>Ending Time |           |
|--------------|------------------------|-----------|---------------------|-----------|
|              | 日/月<br>day/month       | 時<br>hour | 日/月<br>day/month    | 時<br>hour |
| 黃色 Yellow    | 4/12                   | 0600      | 4/12                | 1800      |
| 黃色 Yellow    | 10/12                  | 0600      | 11/12               | 0600      |
| 紅色 Red       | 11/12                  | 0600      | 11/12               | 2330      |
| 紅色 Red       | 17/12                  | 1200      | 19/12               | 2300      |
| 紅色 Red       | 21/12                  | 0600      | 25/12               | 2300      |
| 黃色 Yellow    | 26/12                  | 0600      | 26/12               | 2100      |
| 黃色 Yellow    | 27/12                  | 0600      | 27/12               | 1845      |
| 紅色 Red       | 29/12                  | 0615      | 29/12               | 2300      |
| 黃色 Yellow    | 31/12                  | 0600      | 31/12               | 2300      |





## 2.1 二零二二年十二月的熱帶氣旋概述

二零二二年十二月在北太平洋西部出現了一個熱帶氣旋。

熱帶低氣壓帕卡於十二月十一日凌晨在馬尼拉之東北偏東約 490 公里的北太平洋西部上形成，大致向東北移動並逐漸增強。當晚帕卡發展為熱帶風暴，並於十二月十二日凌晨達到其最高強度，中心附近最高持續風速估計為每小時 75 公里。隨後帕卡逐漸減弱，當晚在琉球群島以南的北太平洋西部上減弱為低壓區。



### 2.1 Overview of Tropical Cyclone in December 2022

One tropical cyclone occurred over the western North Pacific in December 2022.

Pakhar formed as a tropical depression over the western North Pacific about 490 km east-northeast of Manila in the small hours on 11 December. It moved generally northeastwards and intensified gradually. Pakhar developed into a tropical storm that night and reached its peak intensity in the small hours on 12 December with an estimated maximum sustained wind of 75 km/h near its centre. It then weakened gradually and degenerated into an area of low pressure over the western North Pacific to the south of Ryukyu Islands that night.

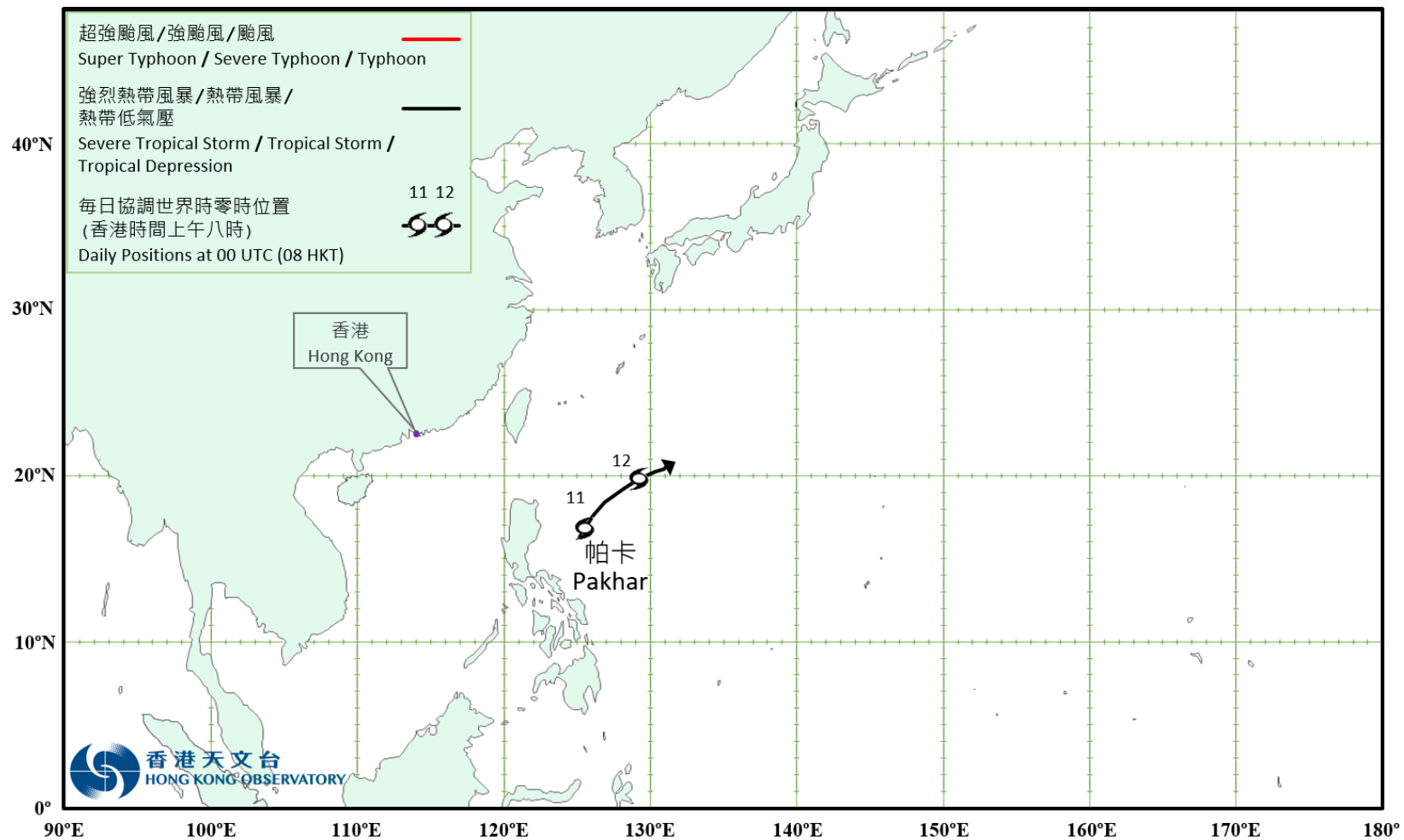
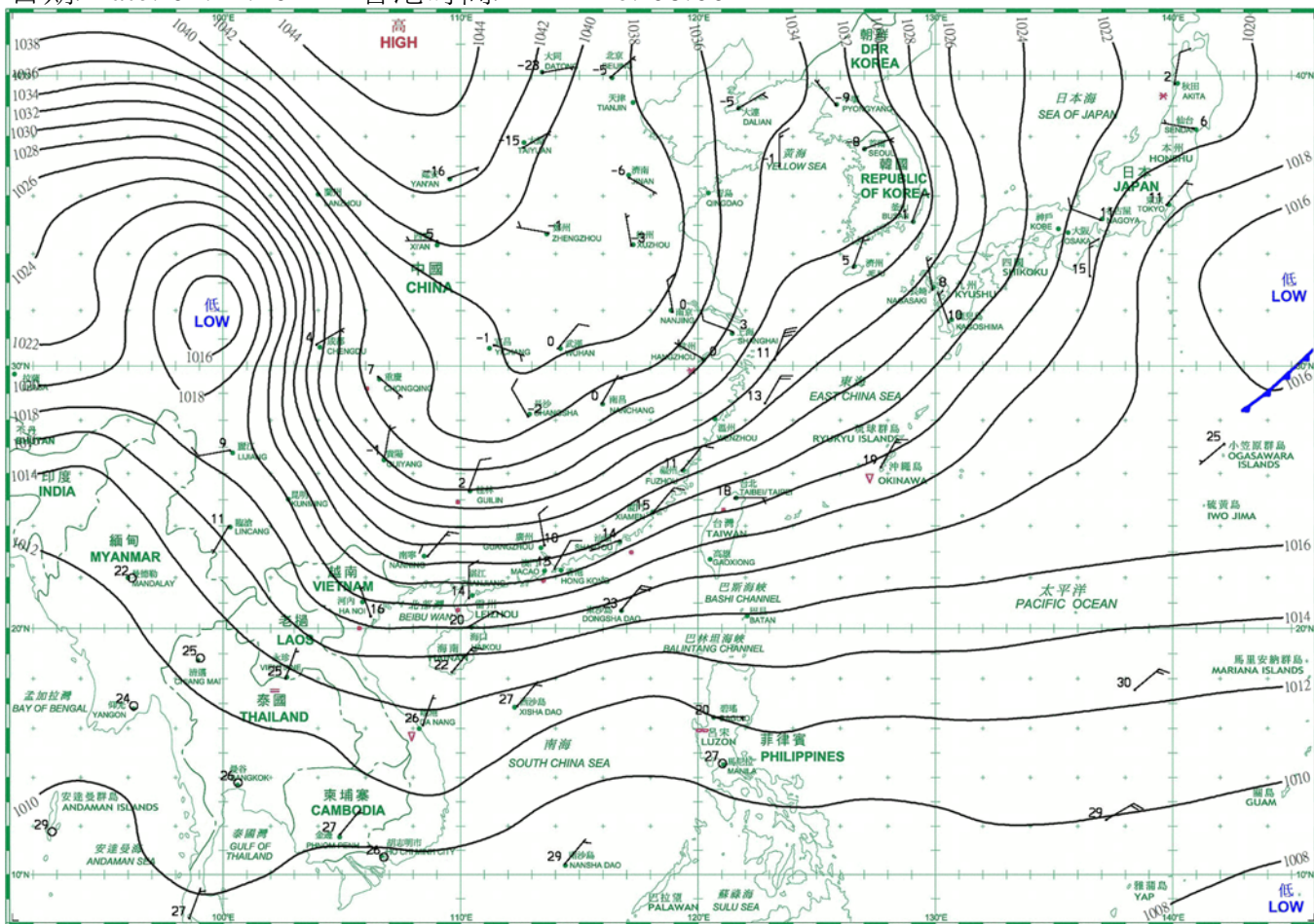


圖 2.1 二零二二年十二月之熱帶氣旋暫定路徑圖

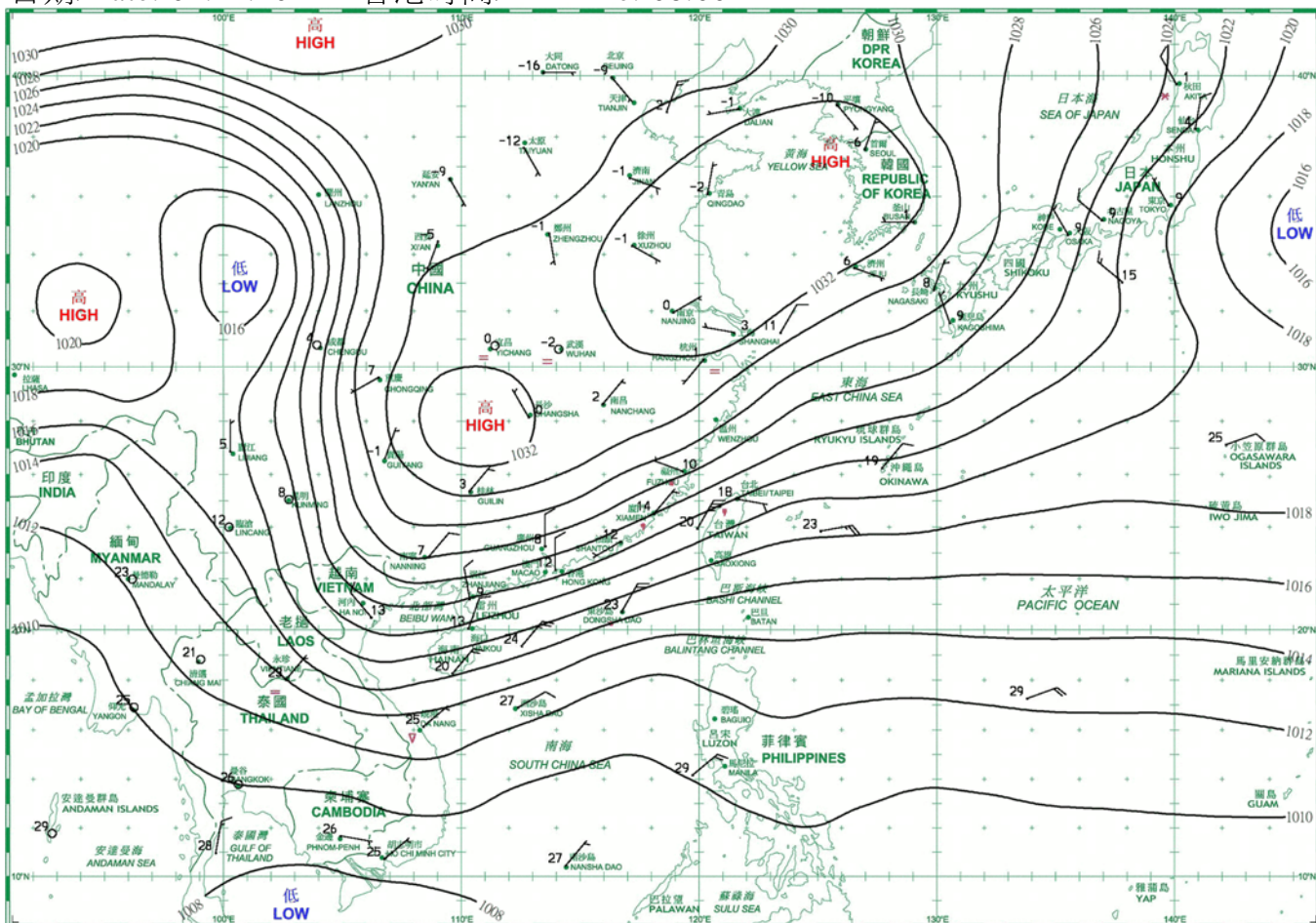
Fig. 2.1 Provisional Tropical Cyclone Track in December 2022

### 3. 二零二二年十二月每日天氣圖 Daily Weather Maps for December 2022

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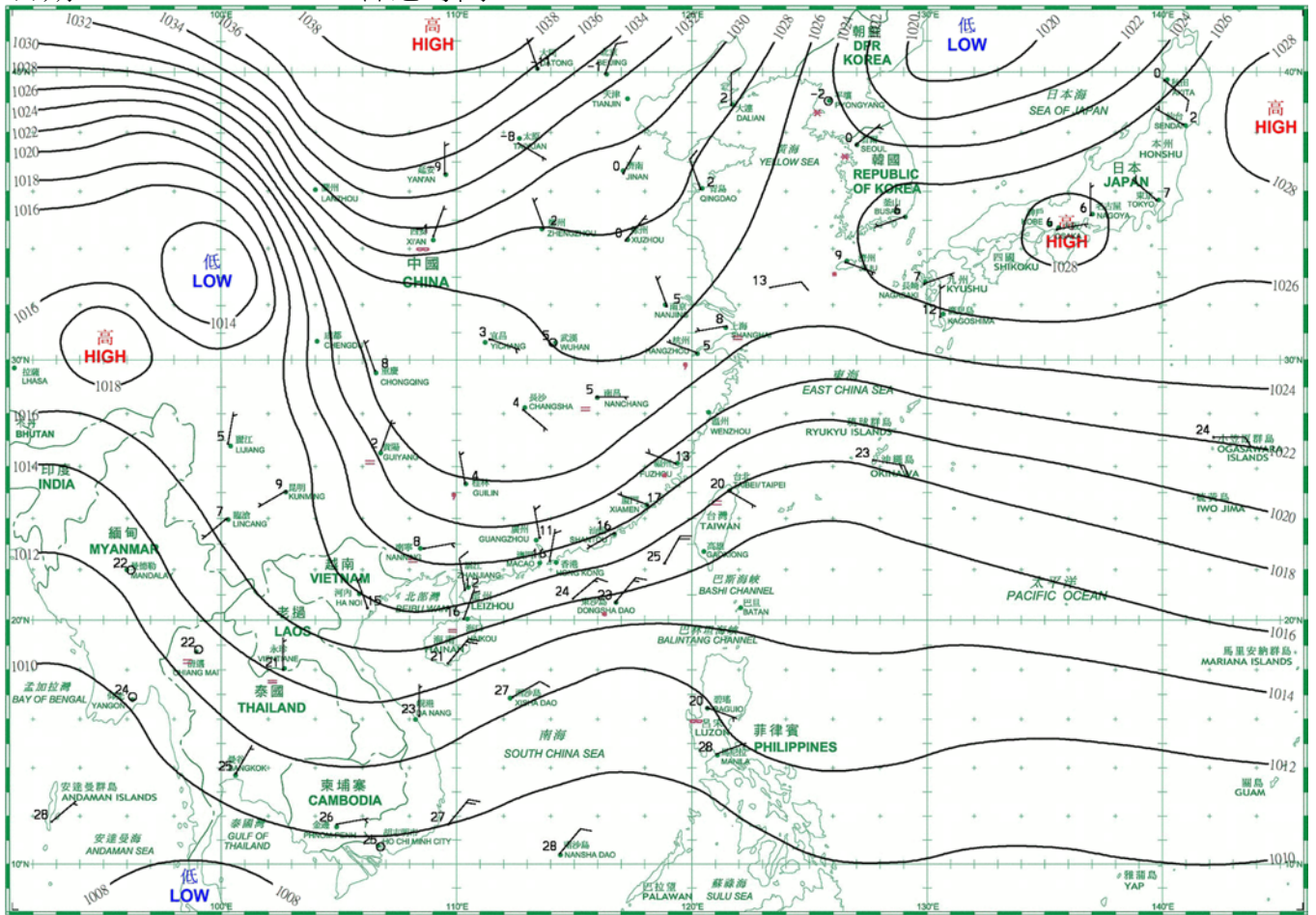


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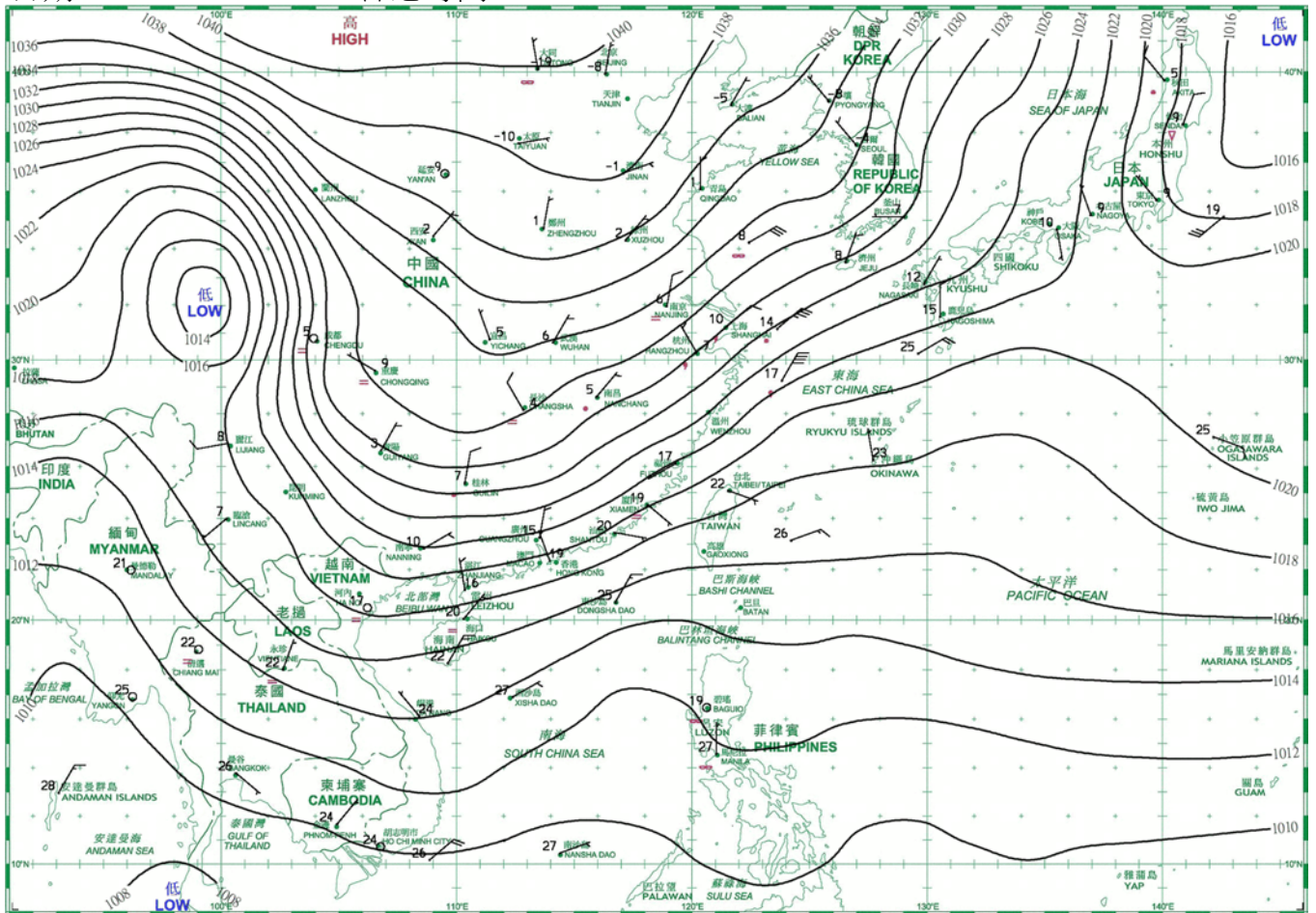


- 等壓線 Isobar(hPa)
- 暖鋒 Warm Front
- 靜止鋒 Stationary Front
- 消散中的冷鋒 Dissipating Cold Front
- 冷鋒 Cold Front
- 錮囚鋒 Occlusion
- 槽軸 (線) Axis of Trough
- 熱帶氣旋中心 Centre of Tropical Cyclone

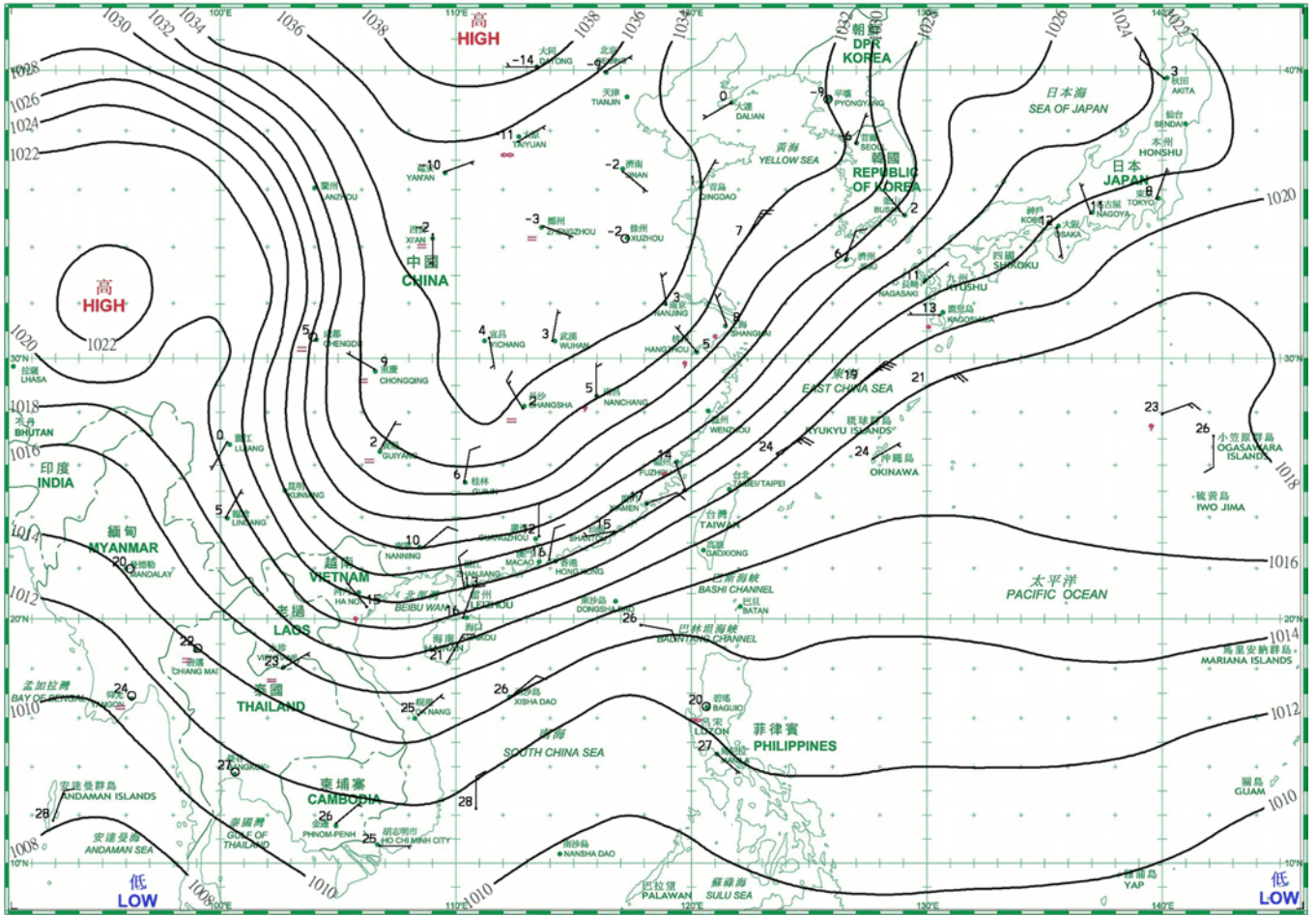
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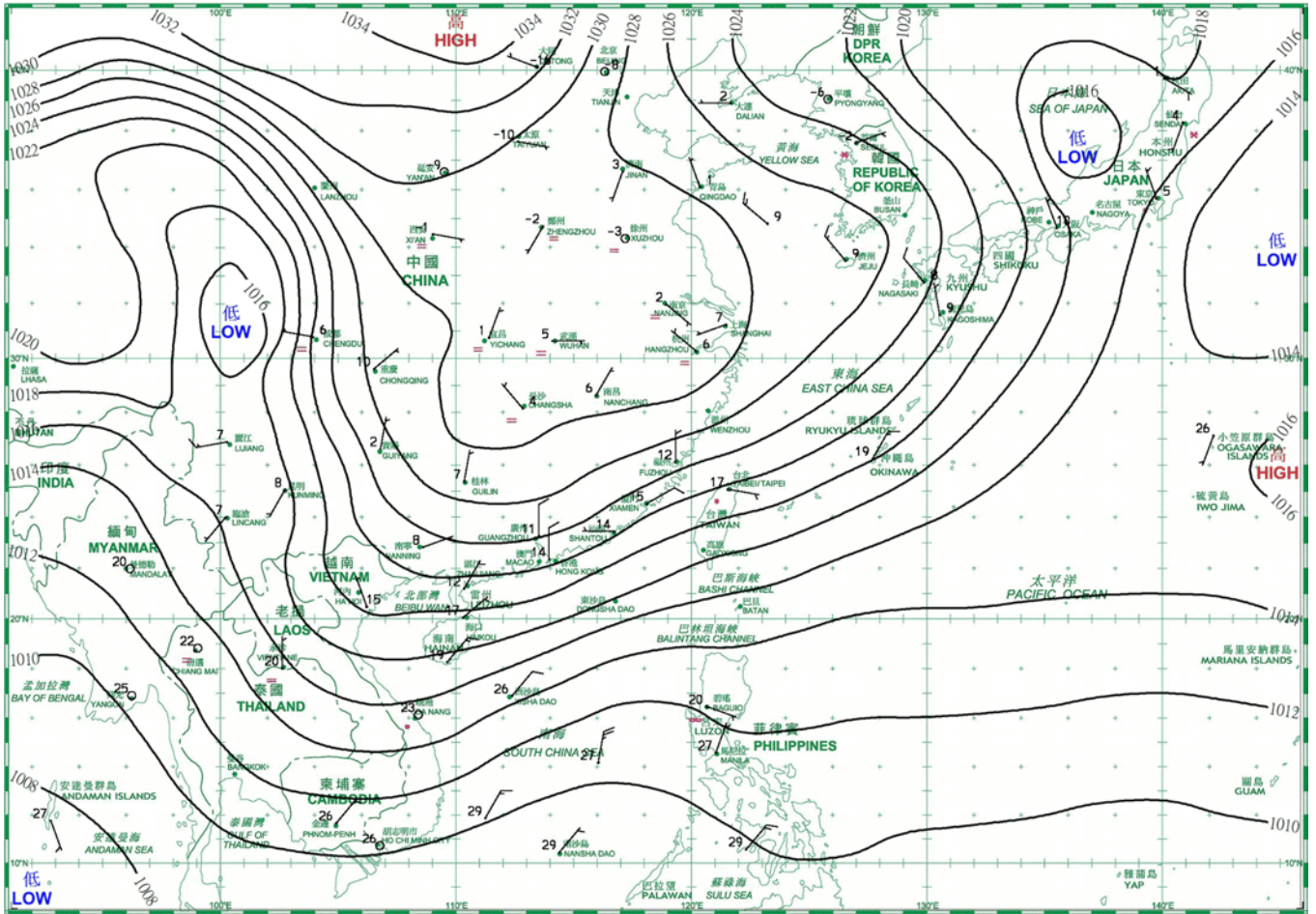
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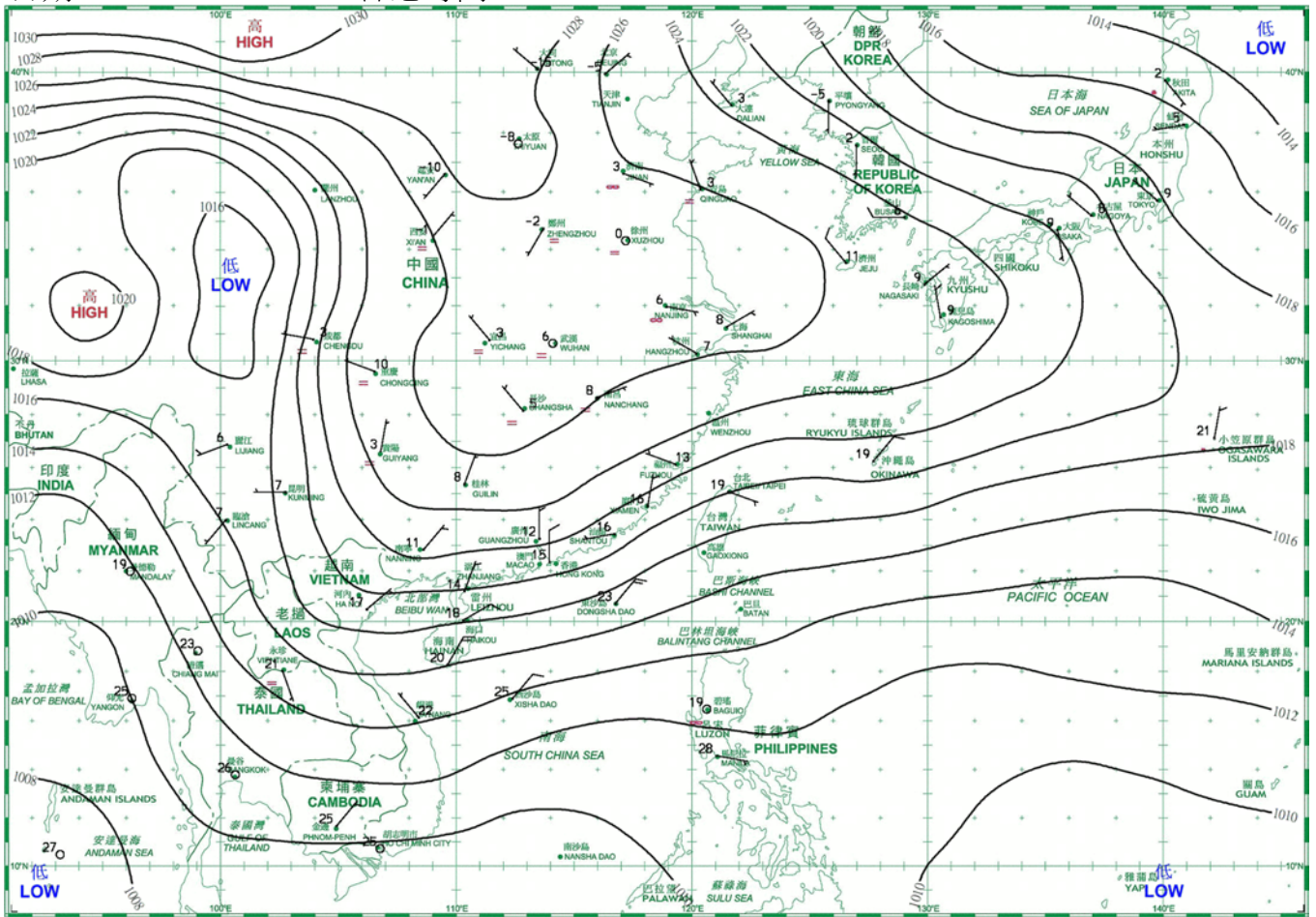
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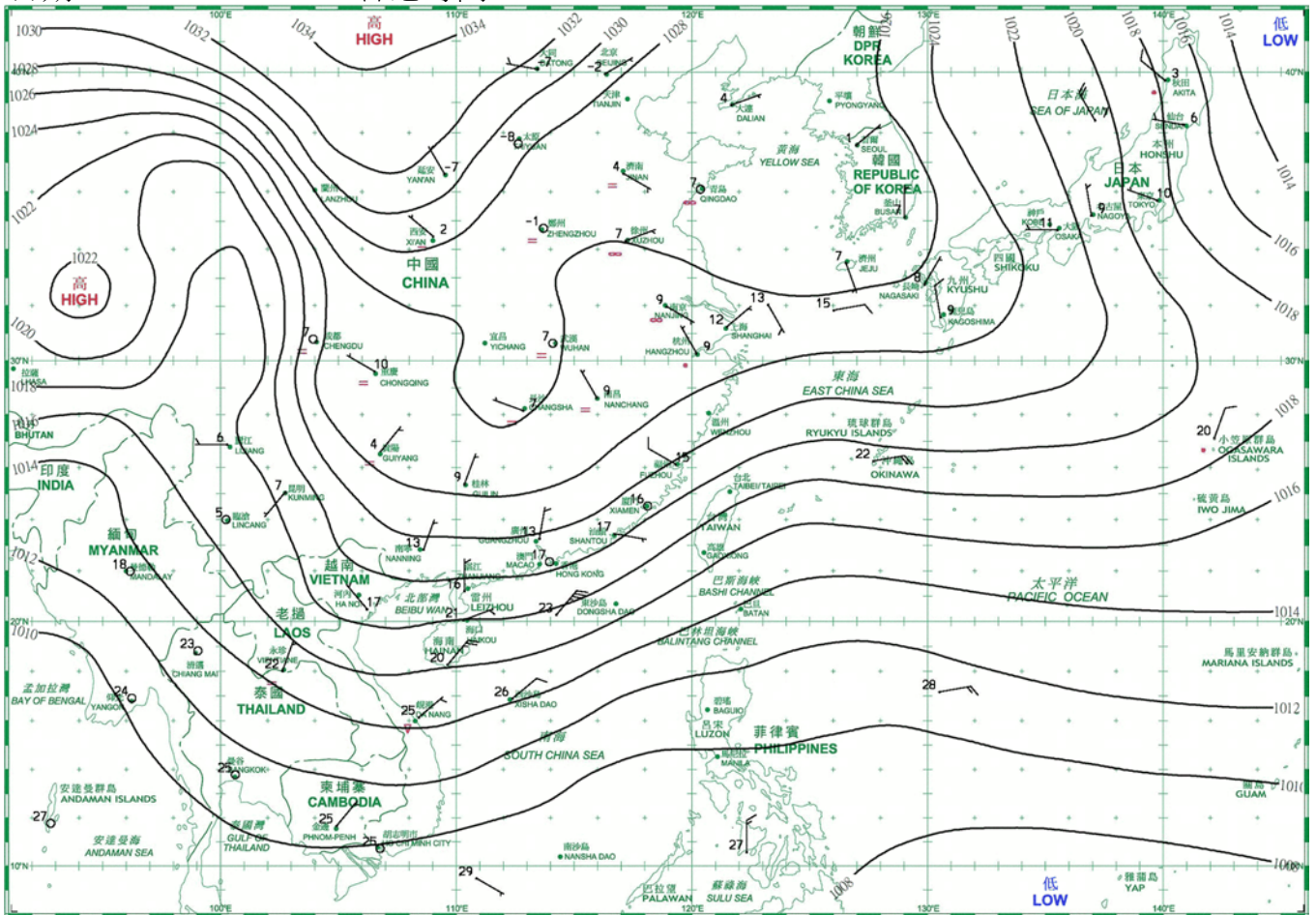
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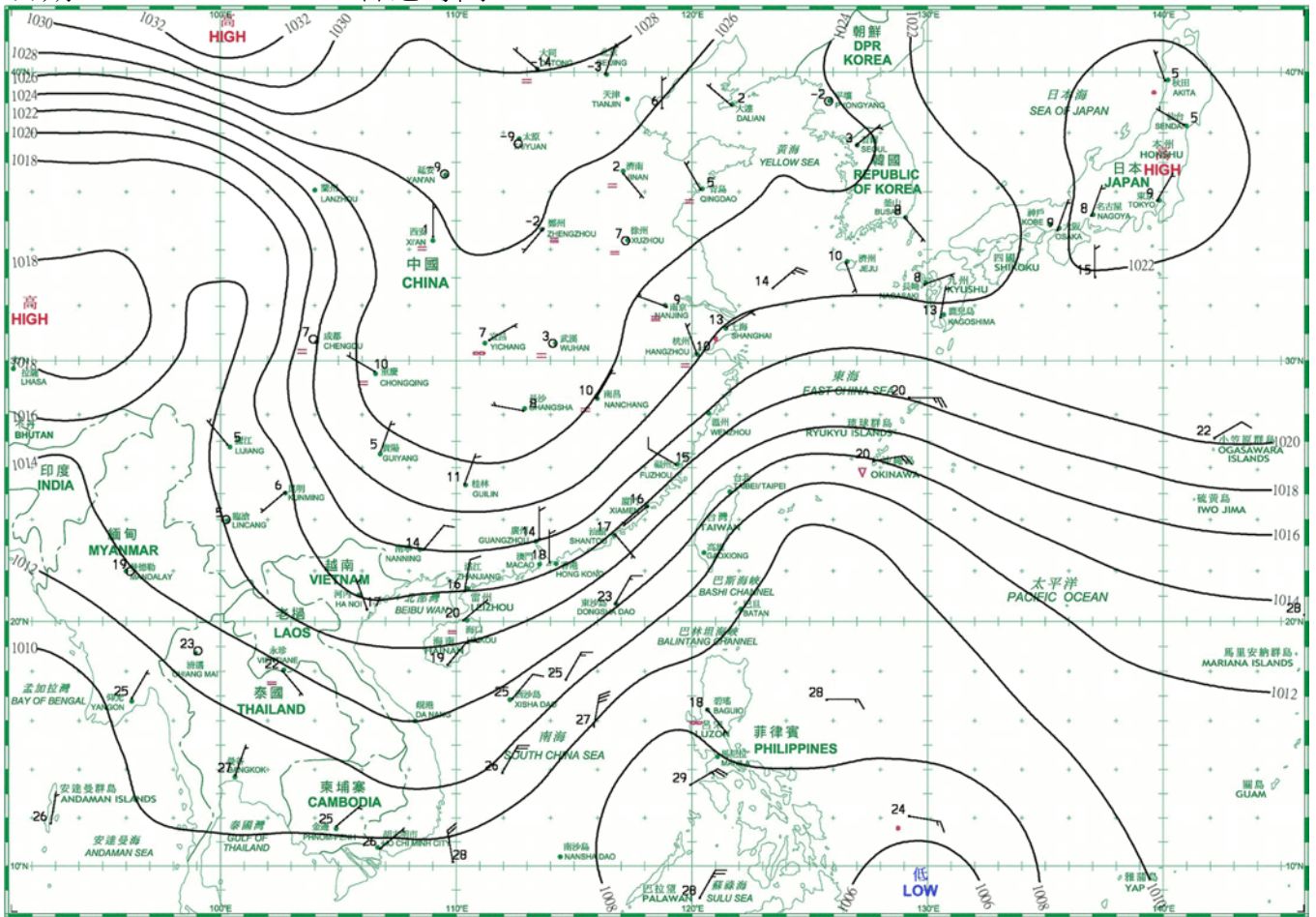
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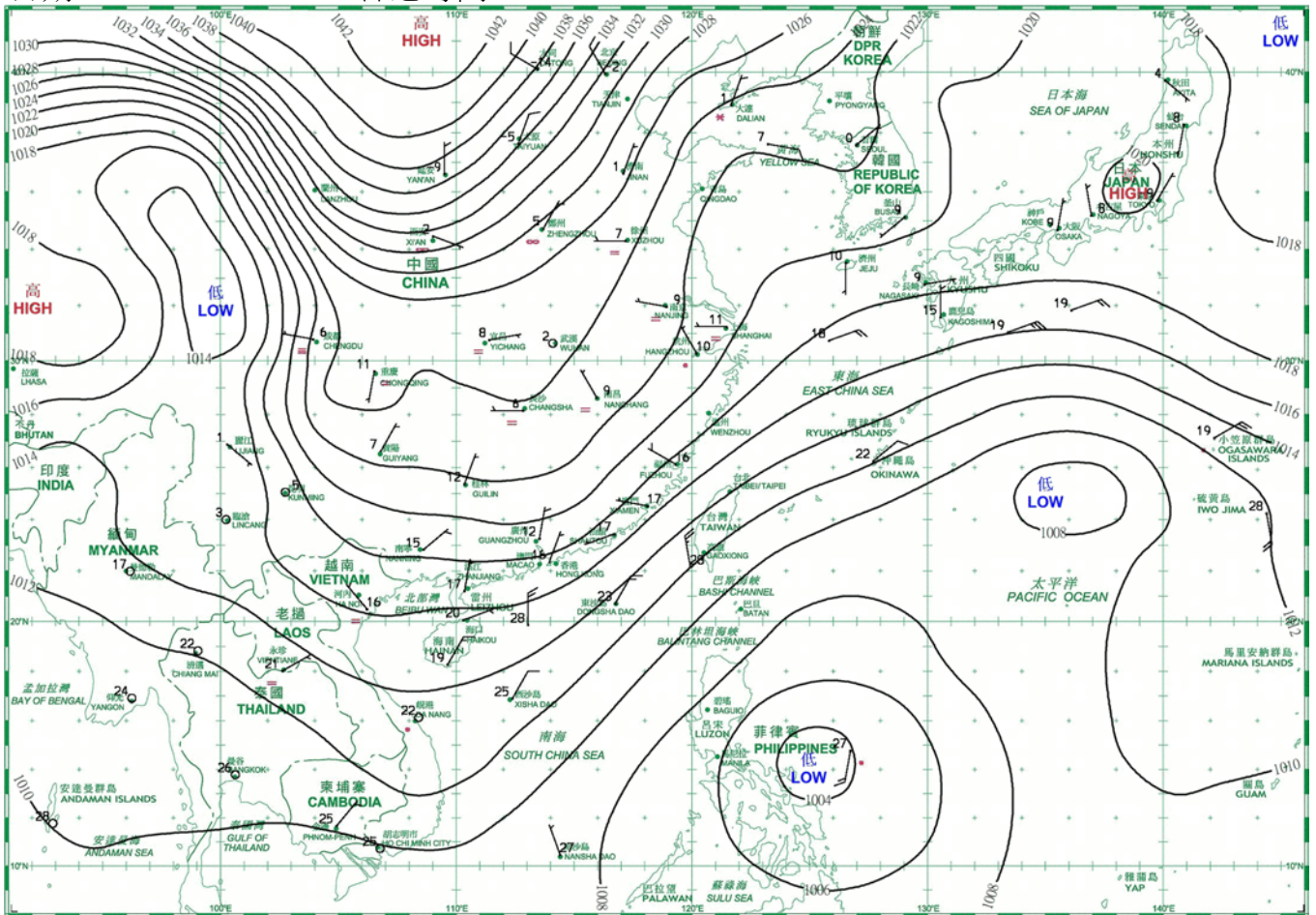
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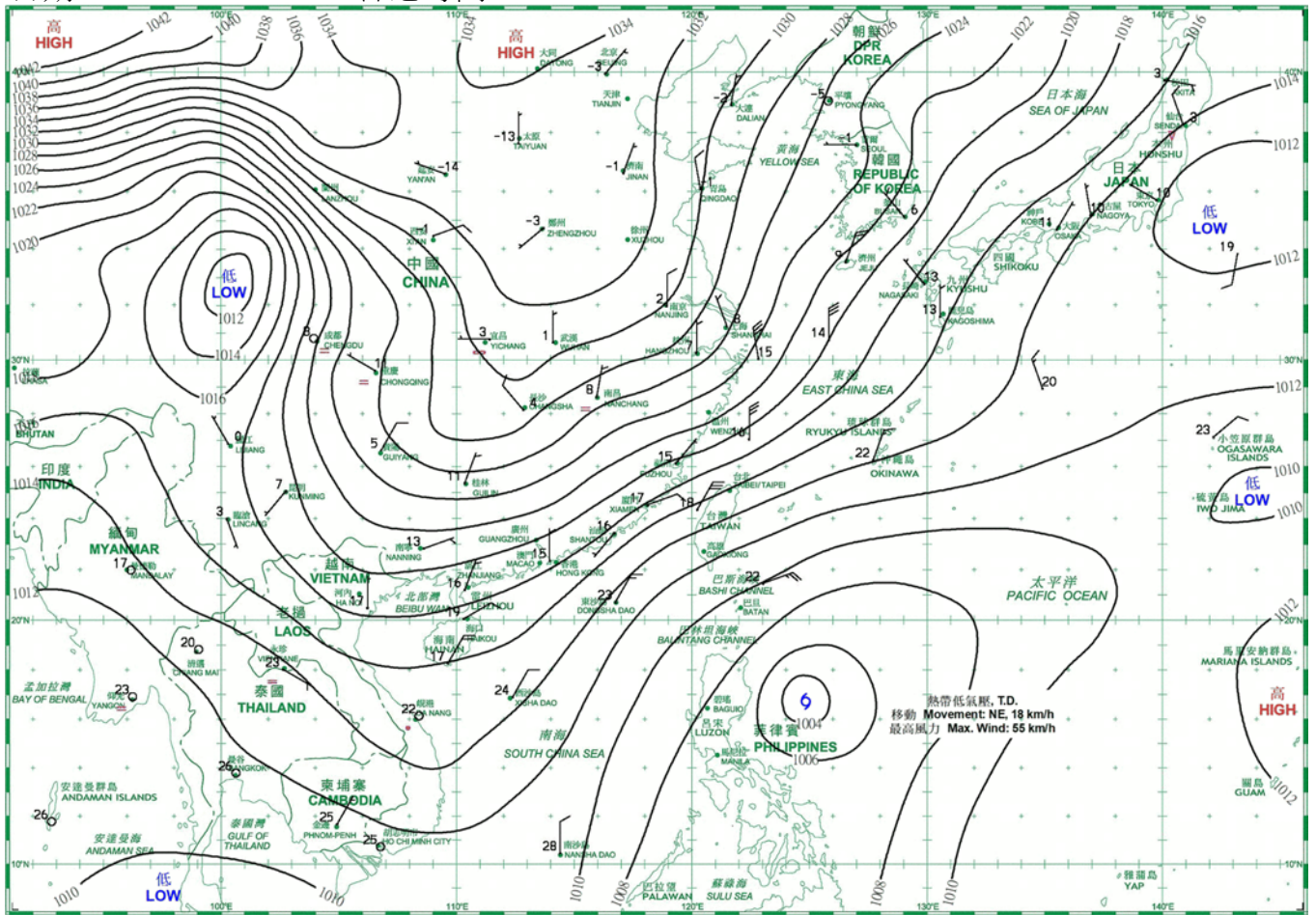
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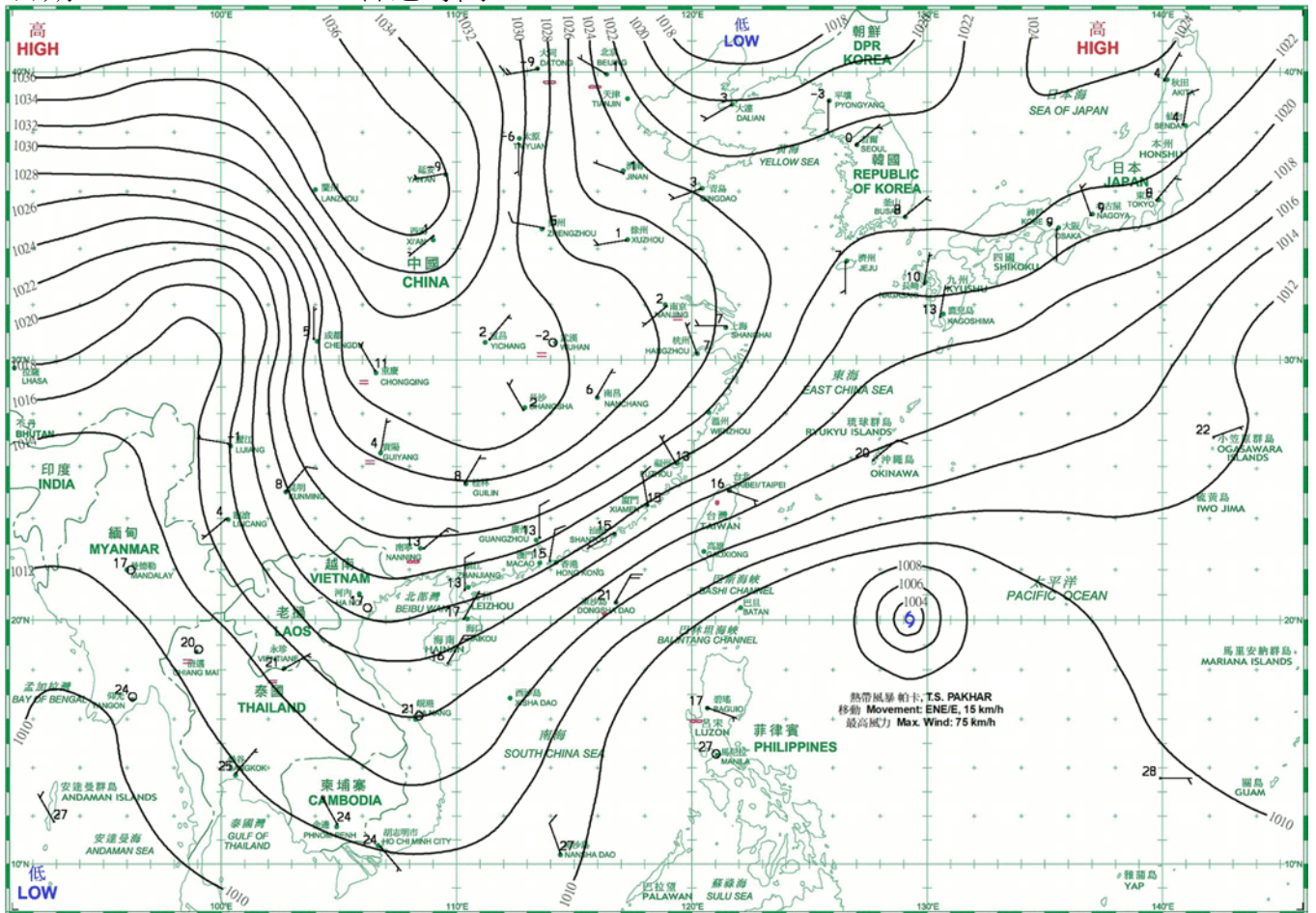
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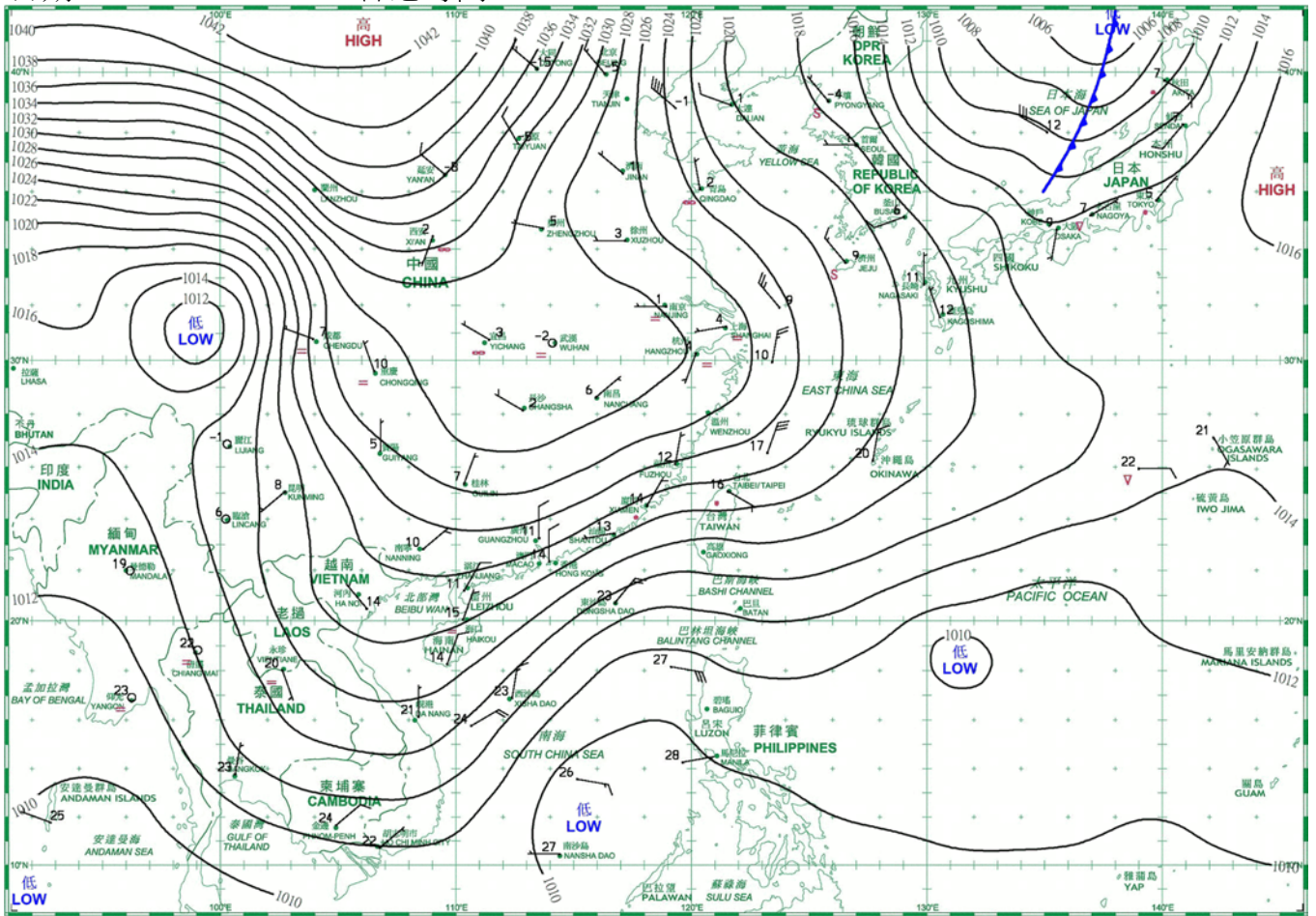


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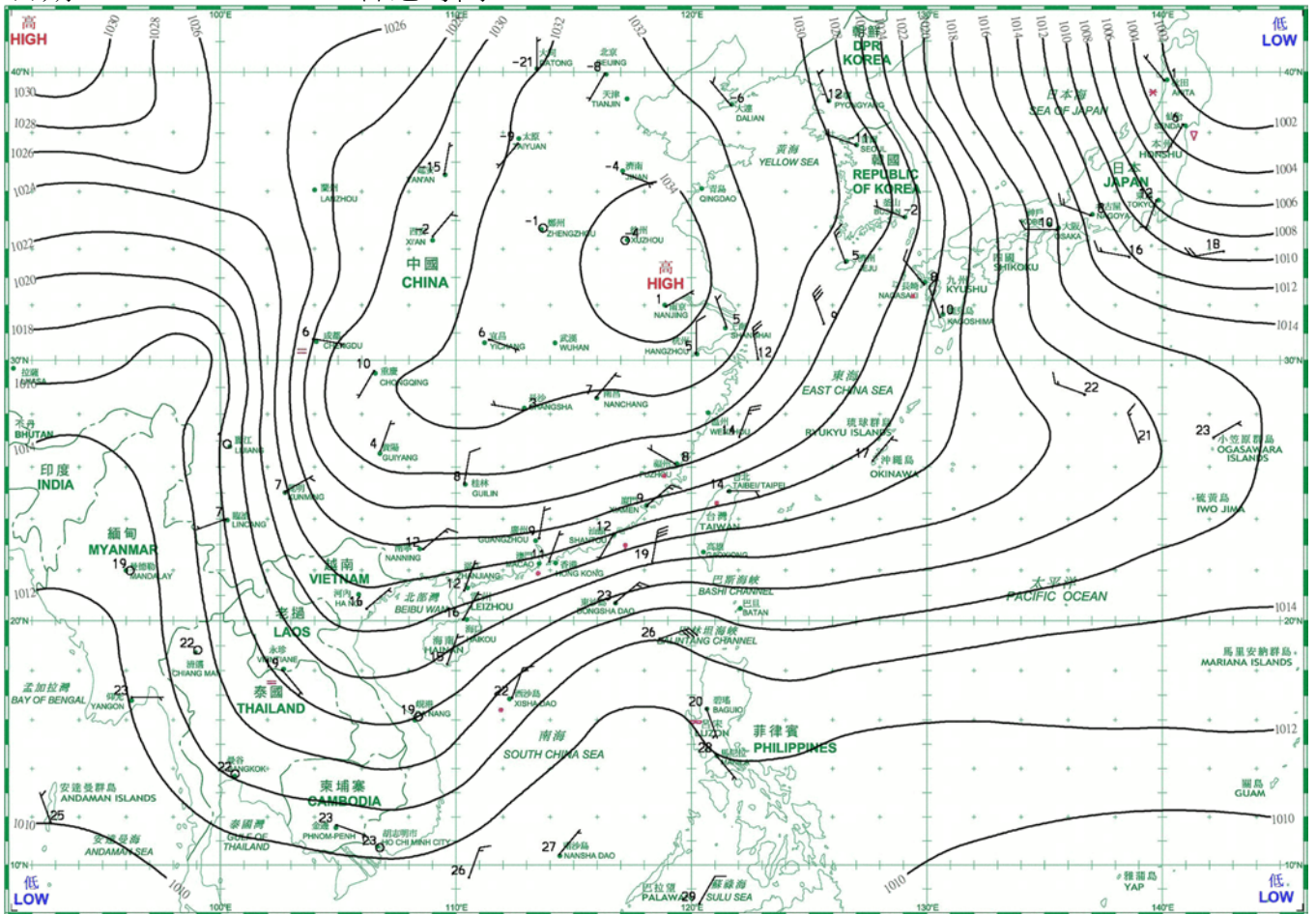




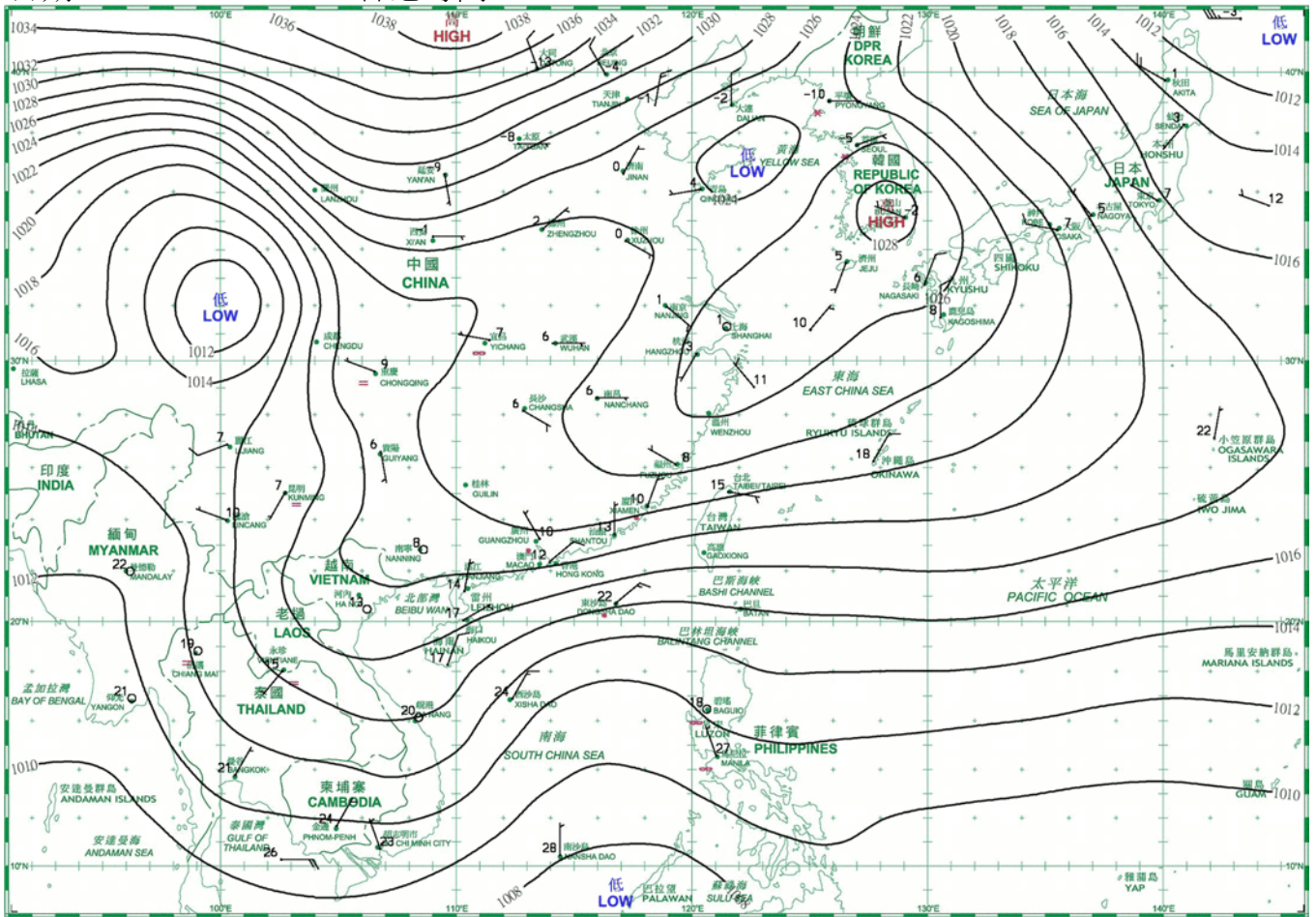
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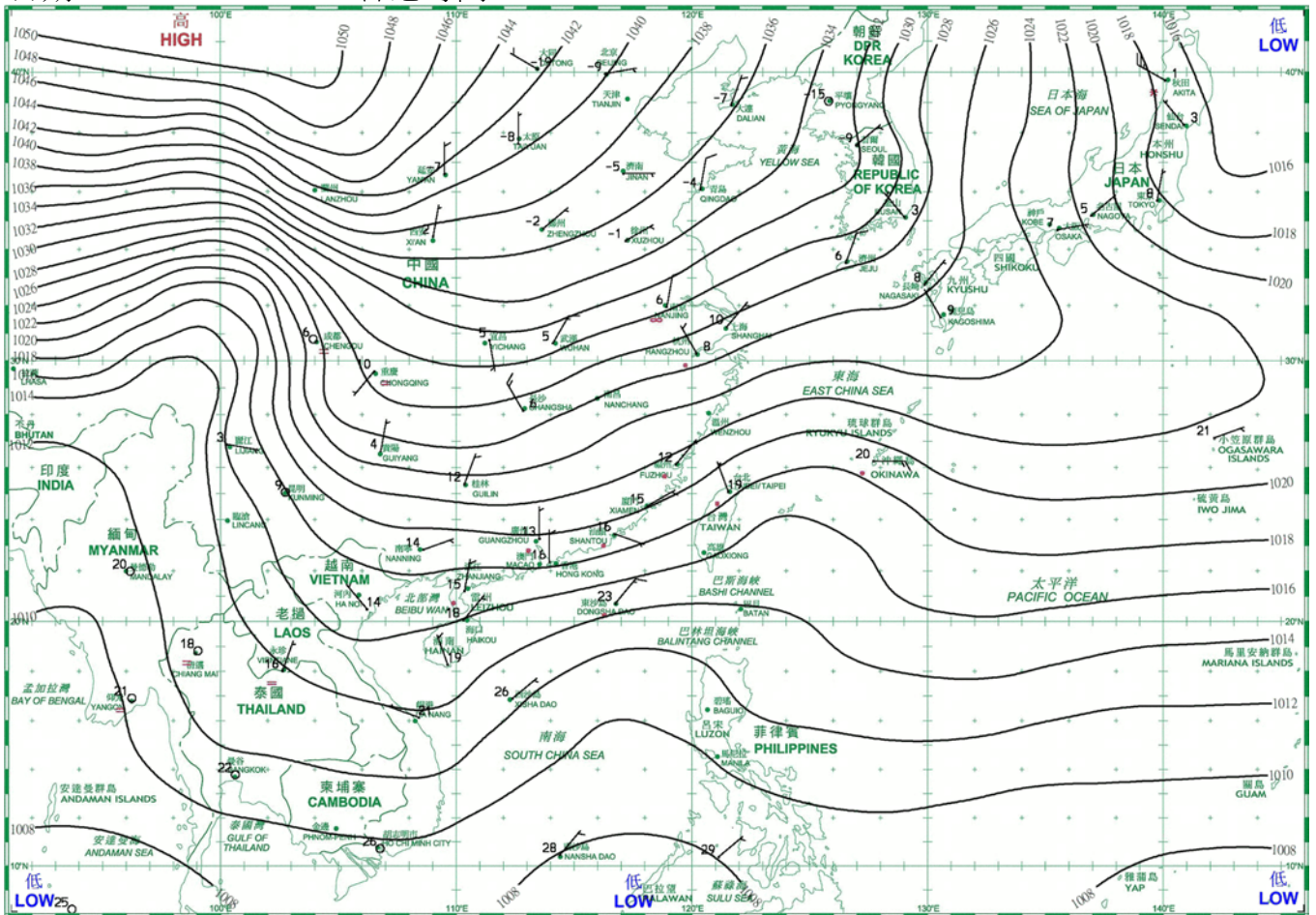
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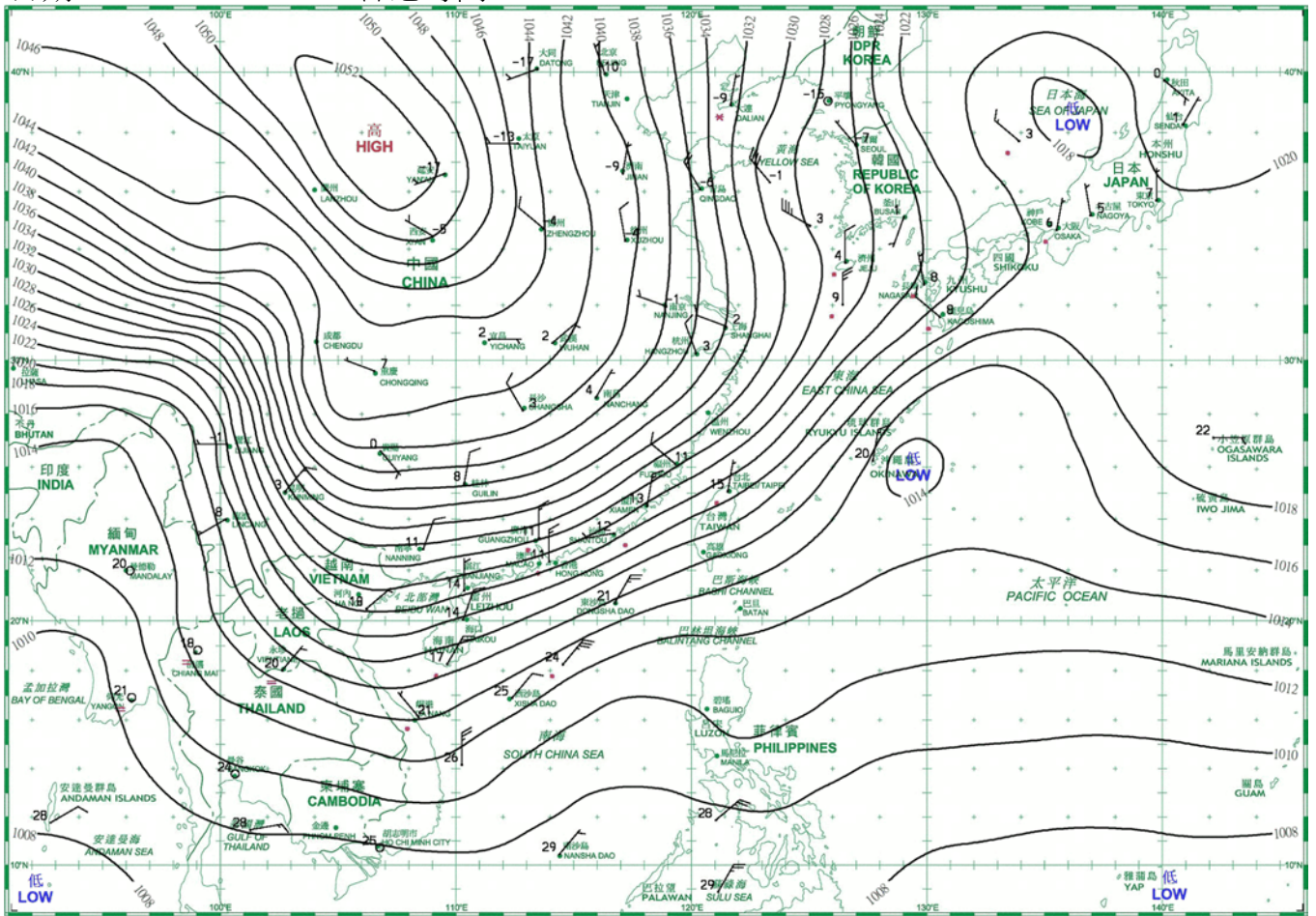
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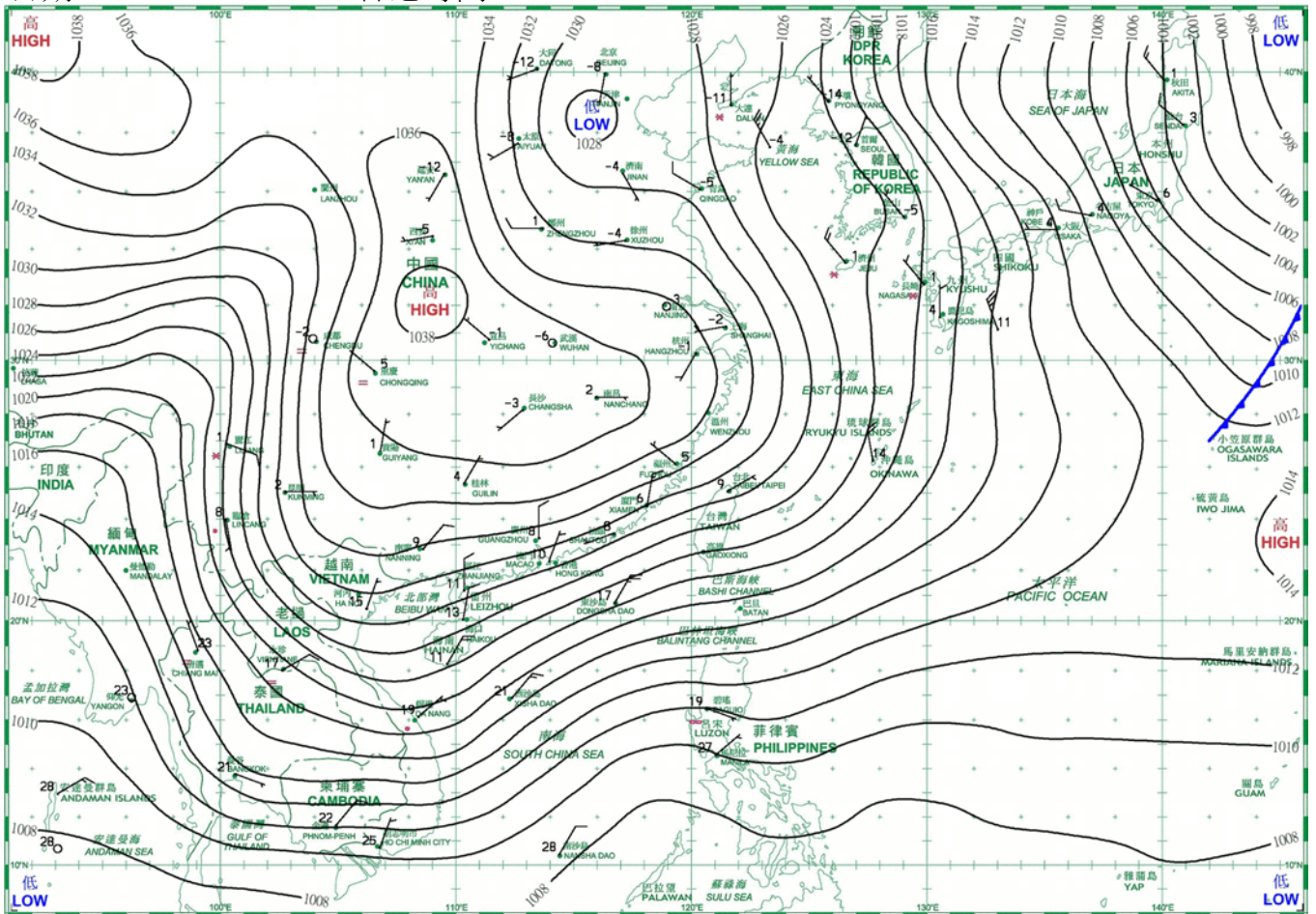
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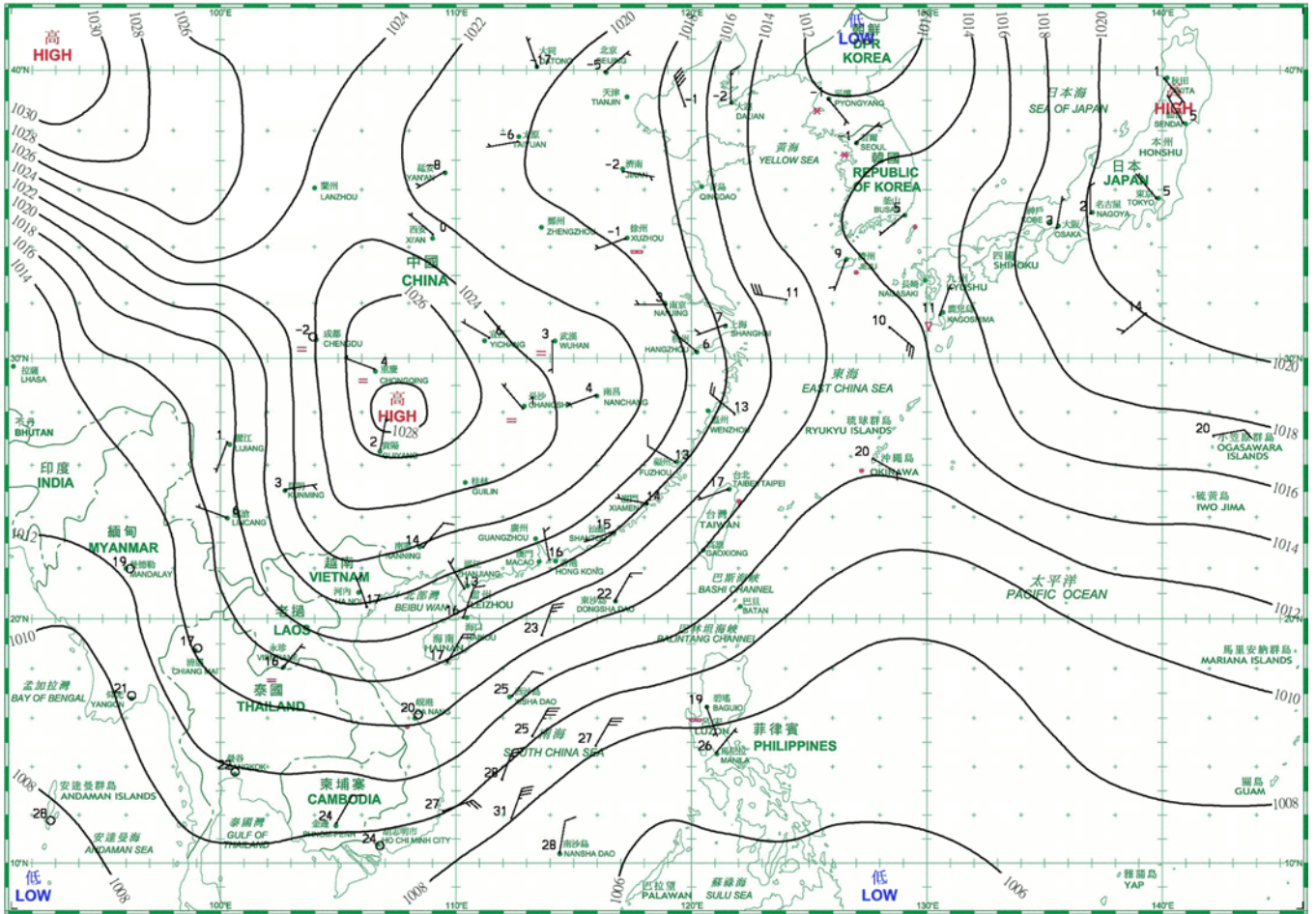


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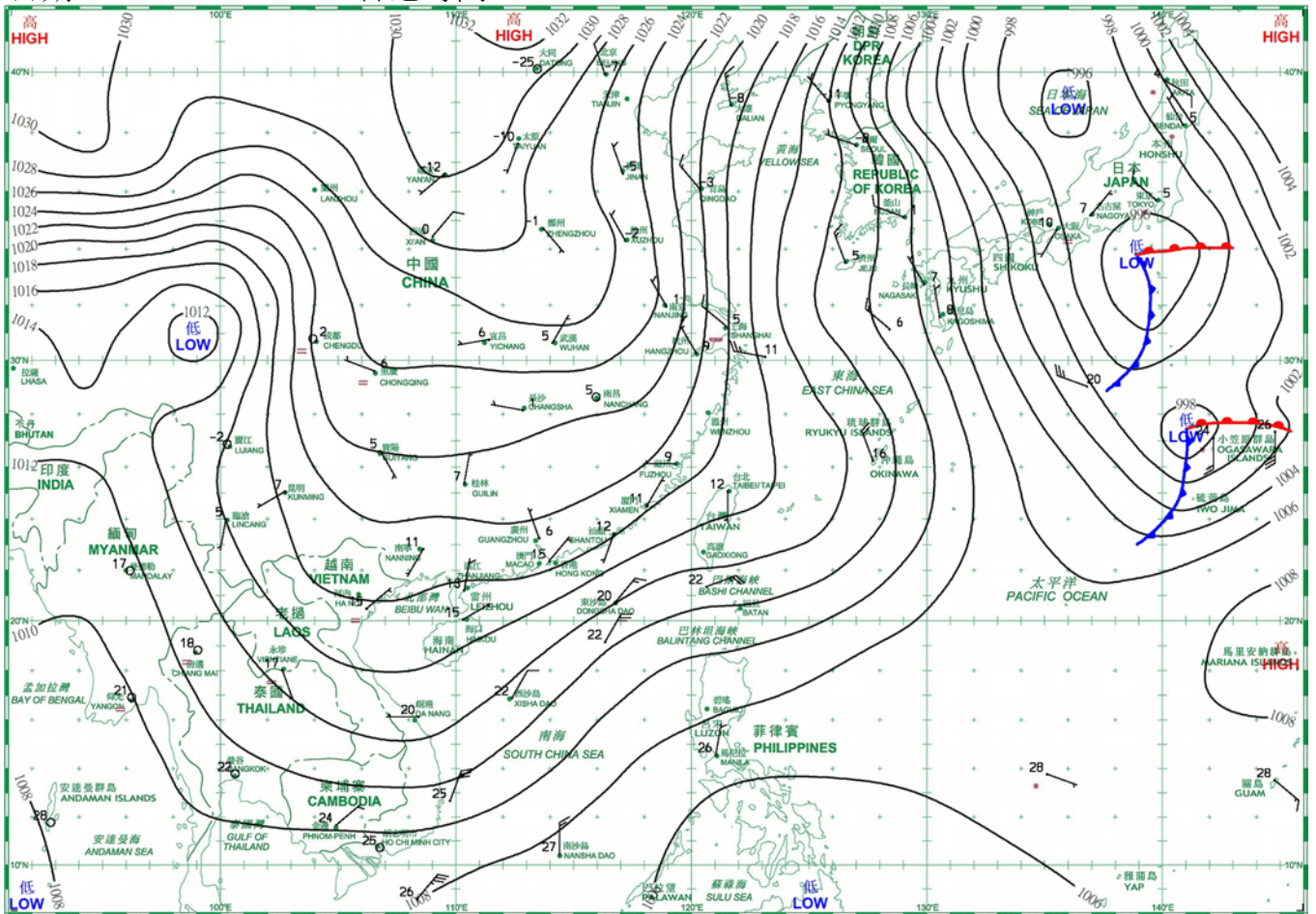




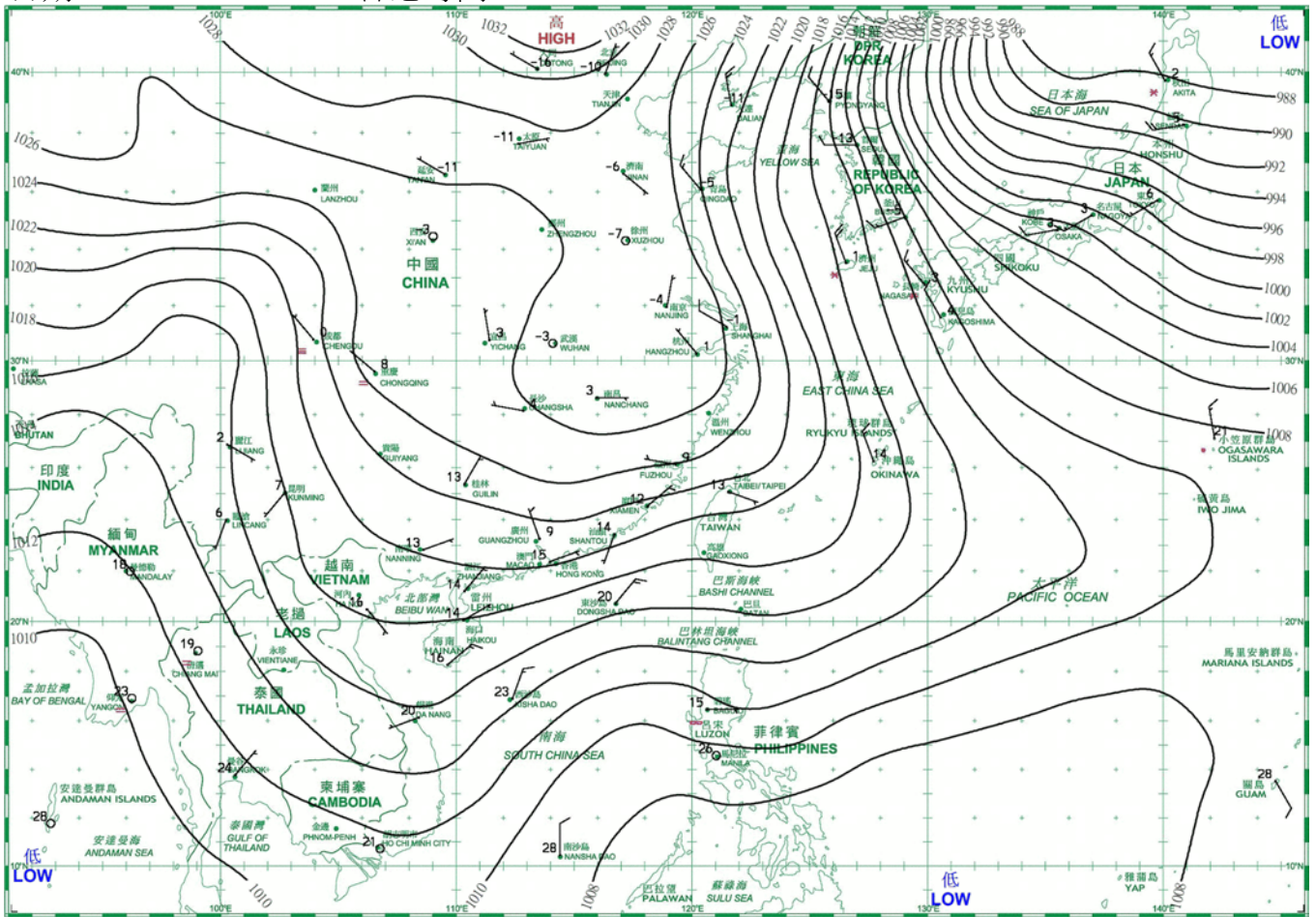
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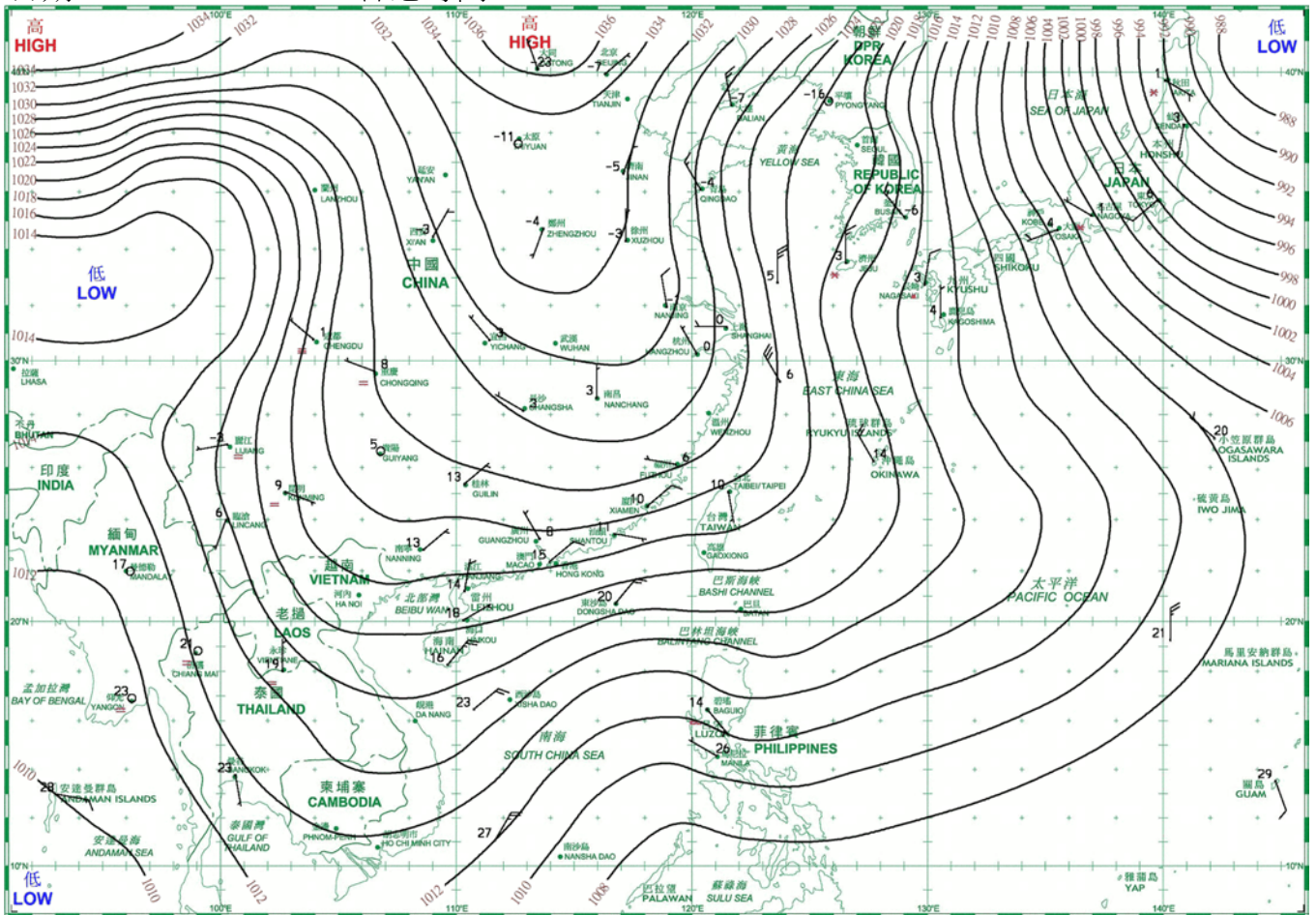
日期/Date: 22.12.2022 香港時間/HK Time: 08:00



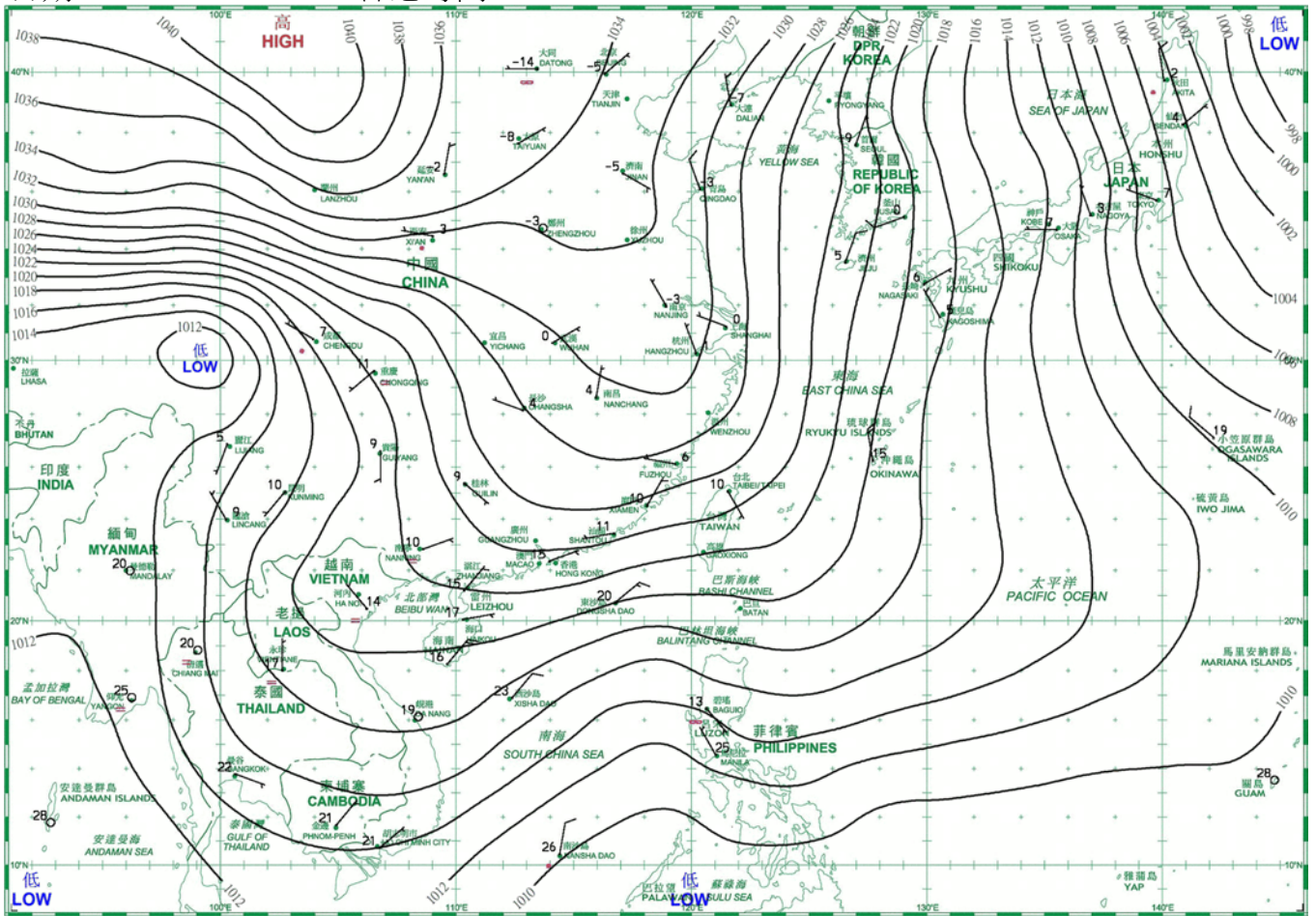
日期/Date: 23.12.2022 香港時間/HK Time: 08:00



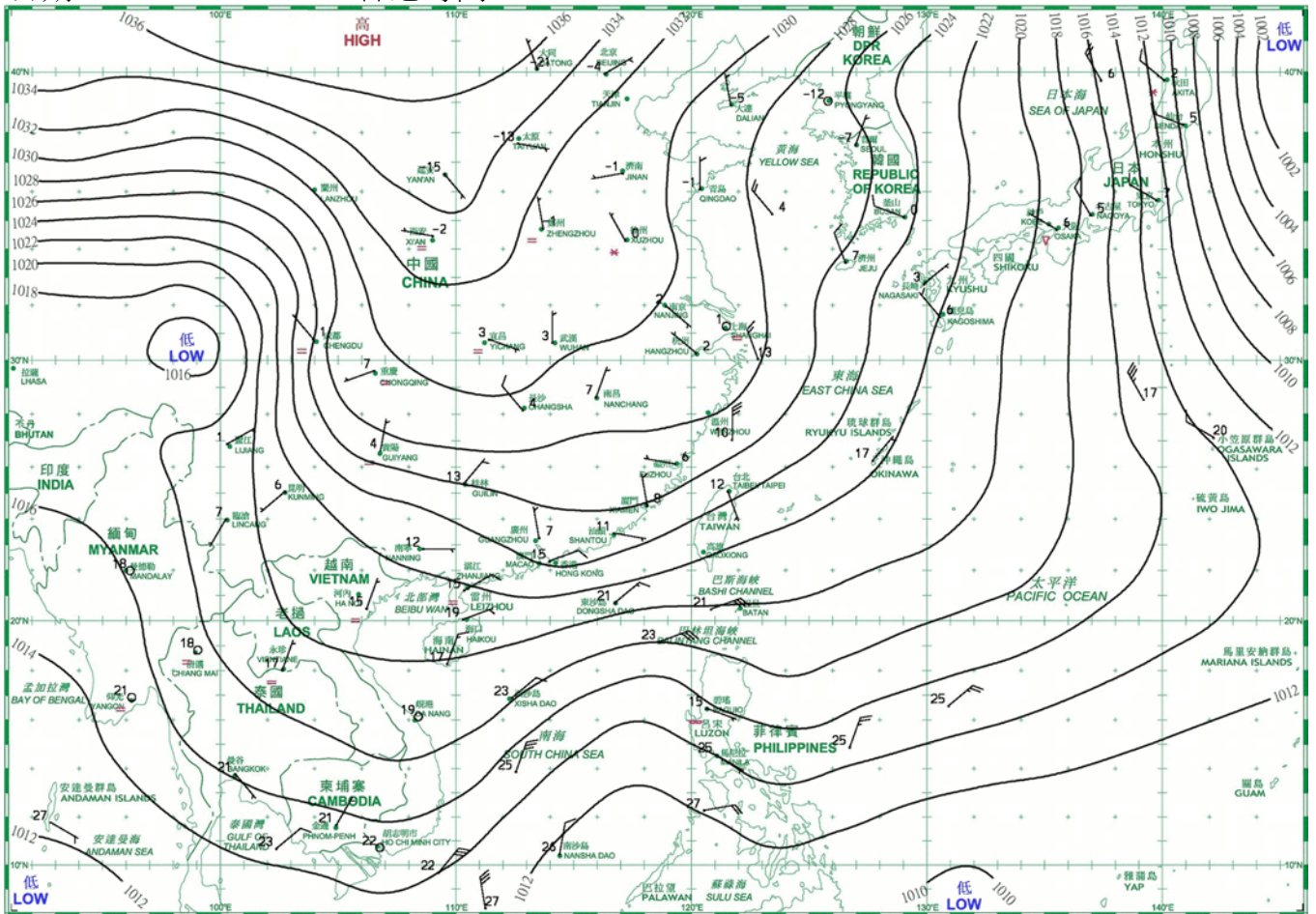
日期/Date: 24.12.2022 香港時間/HK Time: 08:00



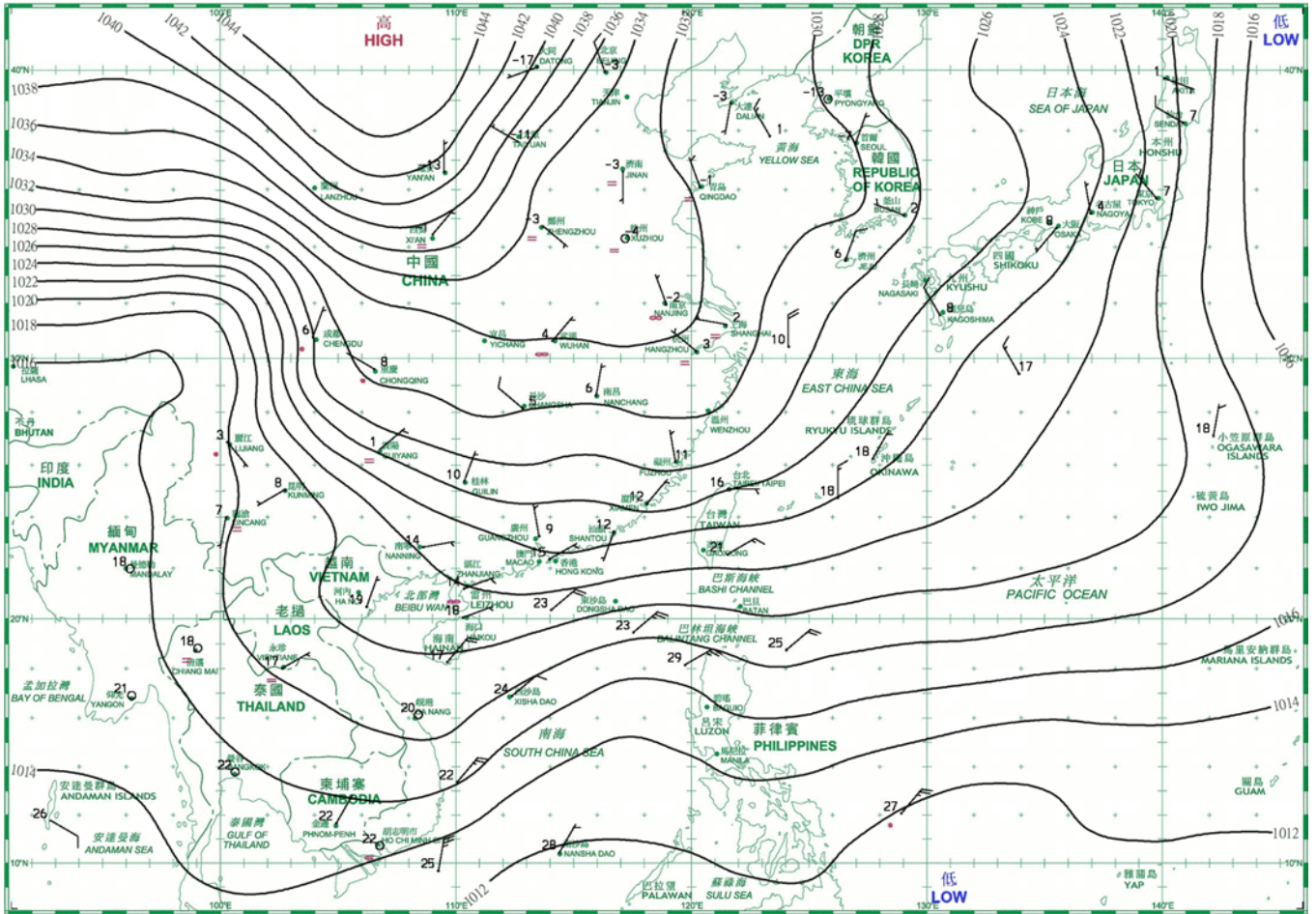
日期/Date: 25.12.2022 香港時間/HK Time: 08:00



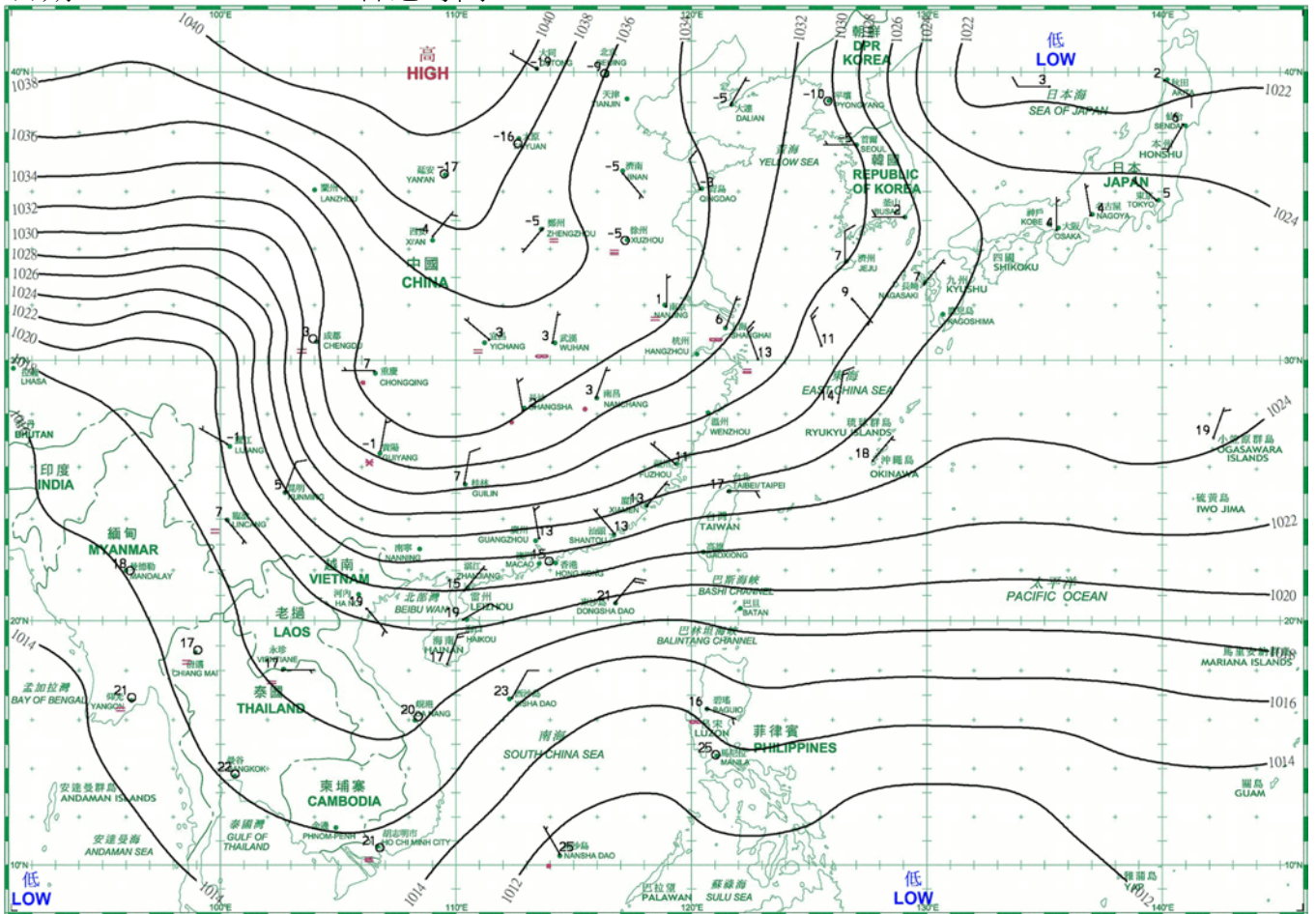
日期/Date: 26.12.2022 香港時間/HK Time: 08:00



日期/Date: 27.12.2022 香港時間/HK Time: 08:00

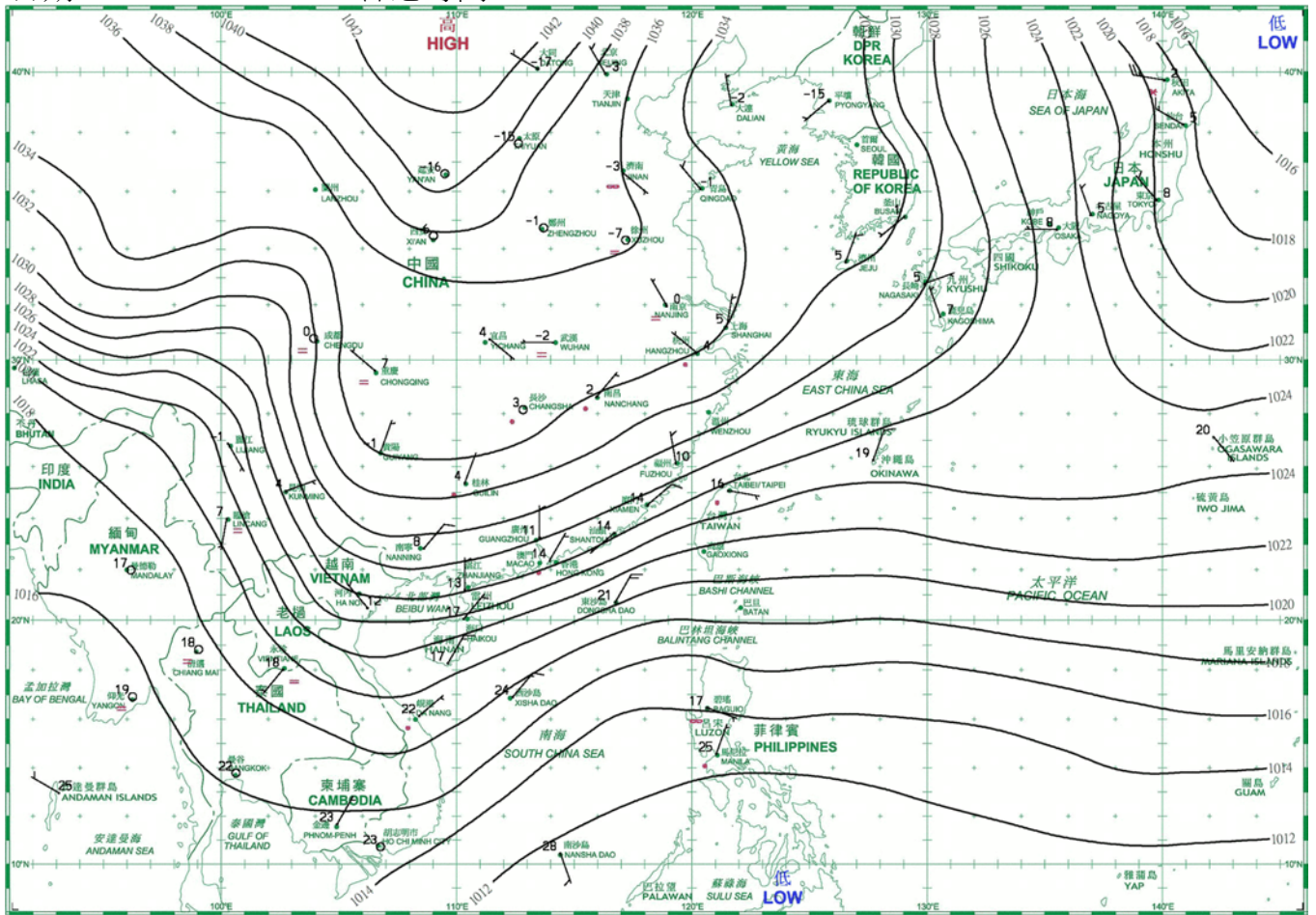


日期/Date: 28.12.2022 香港時間/HK Time: 08:00

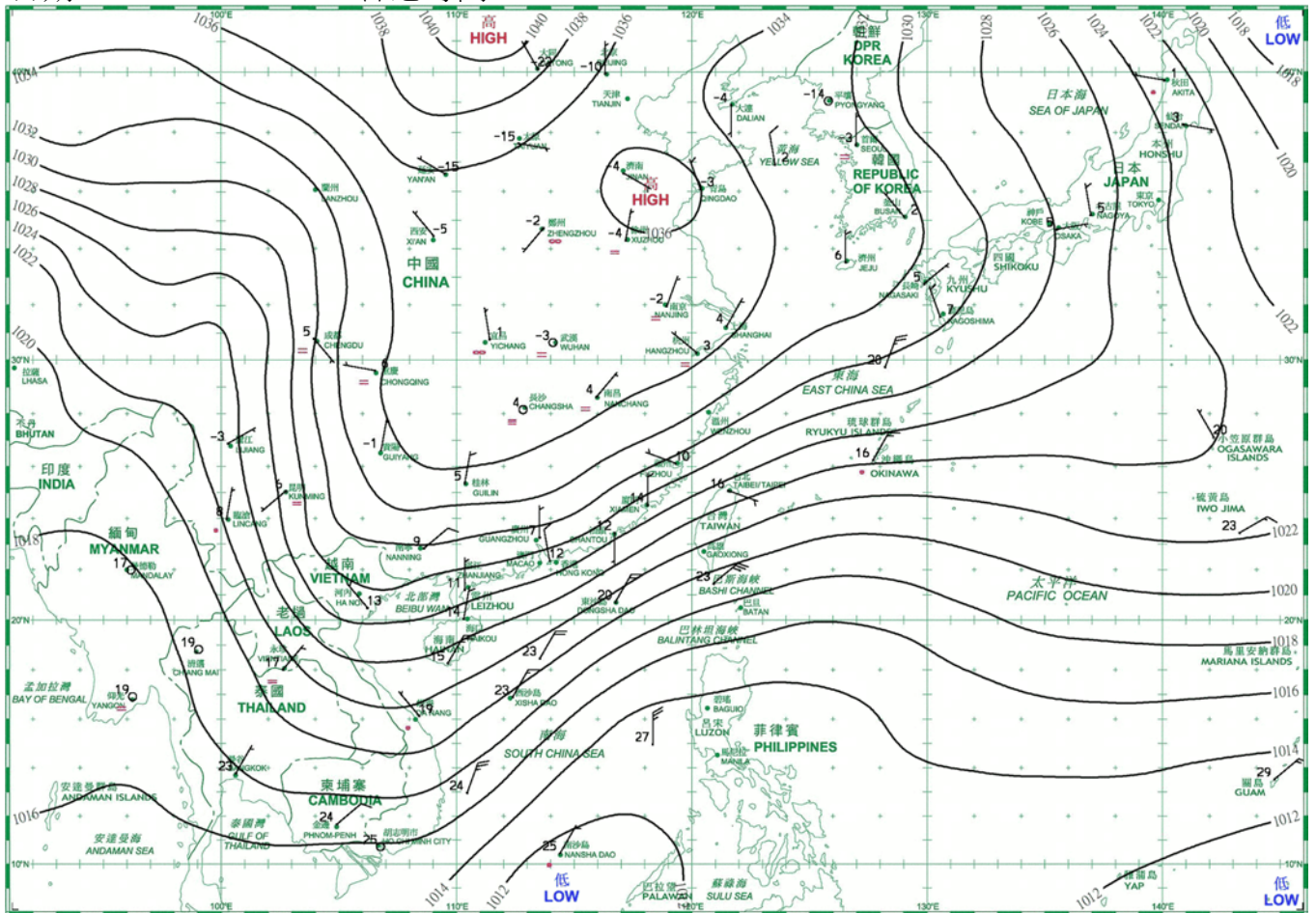


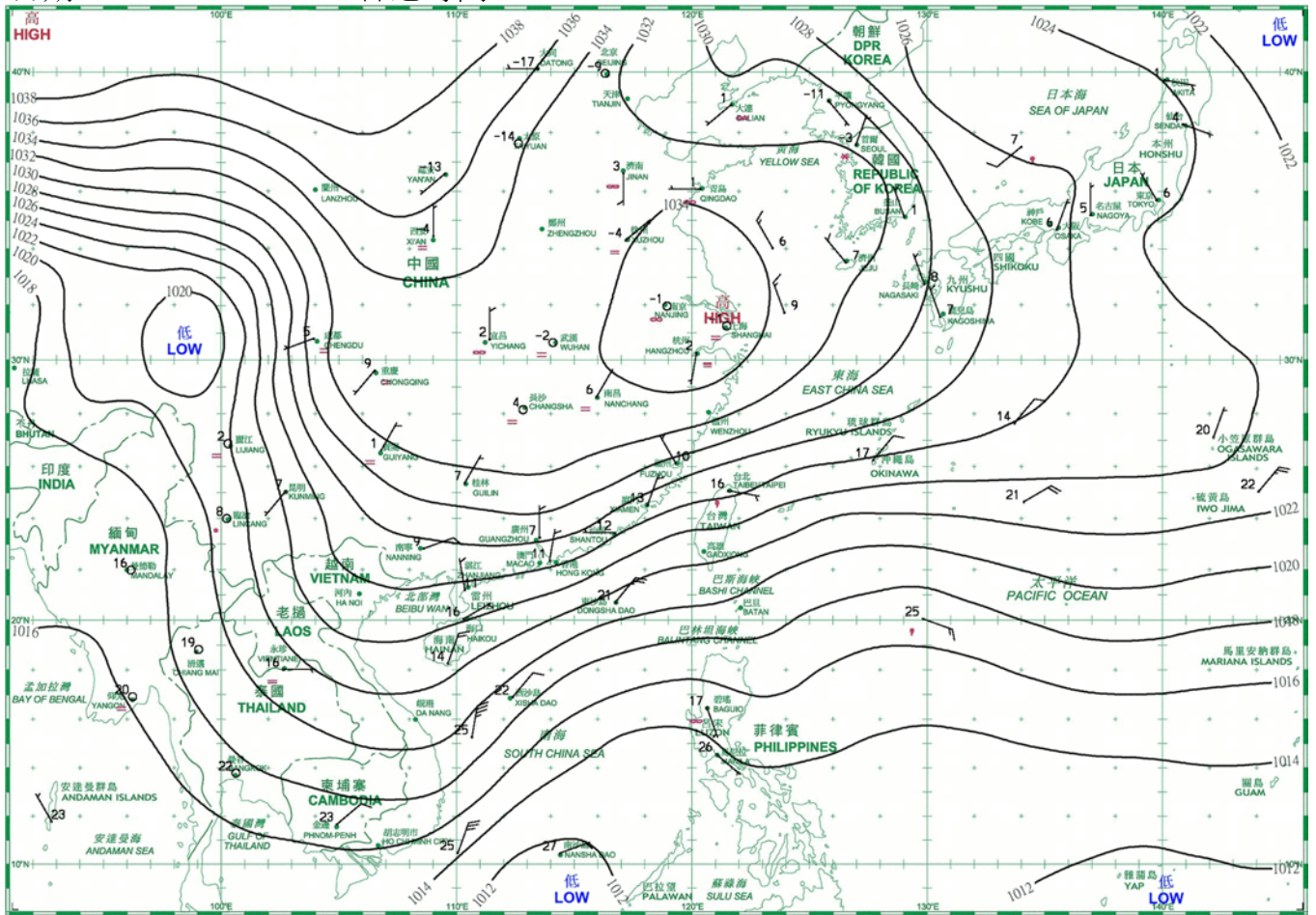


日期/Date: 29.12.2022 香港時間/HK Time: 08:00



日期/Date: 30.12.2022 香港時間/HK Time: 08:00





## 4.1.1 二零二二年十二月香港氣象觀測摘錄(一)

## 4.1.1 Extract of Meteorological Observations in Hong Kong (Part 1), December 2022

| 日期<br>Date          | 平均氣壓<br>Mean<br>Pressure     | 氣 溫<br>Air Temperature |            |               | 平均<br>露點溫度<br>Mean<br>Dew Point<br>Temperature | 平均<br>相對濕度<br>Mean<br>Relative<br>Humidity | 平均雲量<br>Mean<br>Amount<br>of Cloud | 總雨量<br>Total<br>Rainfall |
|---------------------|------------------------------|------------------------|------------|---------------|--|--|------------------------------------|--------------------------|
|                     |                              | 最高<br>Maximum          | 平均<br>Mean | 最低<br>Minimum |  |  |                                    |                          |
| 十二月<br>December     | 百帕斯卡<br>hPa                  | °C                     | °C         | °C            | °C   | %  | %                                  | 毫米<br>mm                 |
| 1                   | 1020.5                       | 18.4                   | 16.5       | 14.8          | 11.5   | 72   | 88                                 | Tr                       |
| 2                   | 1019.4                       | 19.4                   | 16.5       | 13.6          | 10.7   | 69   | 75                                 | -                        |
| 3                   | 1017.1                       | 21.5                   | 19.2       | 16.9          | 14.3   | 73   | 86                                 | -                        |
| 4                   | 1018.0                       | 23.3                   | 21.2       | 19.9          | 16.4   | 74   | 84                                 | -                        |
| 5                   | 1019.8                       | 20.7                   | 17.9       | 15.7          | 11.5   | 66   | 76                                 | -                        |
| 6                   | 1019.7                       | 19.8                   | 17.1       | 14.9          | 11.2   | 68   | 76                                 | -                        |
| 7                   | 1018.9                       | 21.5                   | 18.7       | 16.6          | 12.6   | 68   | 63                                 | Tr                       |
| 8                   | 1017.9                       | 22.6                   | 19.9       | 17.7          | 14.6   | 72   | 32                                 | -                        |
| 9                   | 1015.8                       | 22.7                   | 19.6       | 17.4          | 13.2   | 67   | 19                                 | -                        |
| 10                  | 1015.5                       | 21.6                   | 18.4       | 15.6          | 10.5   | 61   | 10                                 | -                        |
| 11                  | 1016.2                       | 19.0                   | 16.7       | 15.3          | 8.8  | 60   | 65                                 | -                        |
| 12                  | 1018.3                       | 18.0                   | 16.2       | 15.0          | 8.7  | 61   | 84                                 | Tr                       |
| 13                  | 1019.4                       | 16.7                   | 14.5       | 12.9          | 8.9  | 71   | 88                                 | 3.2                      |
| 14                  | 1021.4                       | 13.1                   | 12.5       | 11.5          | 11.1   | 91   | 93                                 | 8.7                      |
| 15                  | 1017.9                       | 16.2                   | 14.6       | 12.3          | 13.3   | 91   | 90                                 | 3.8                      |
| 16                  | 1017.5                       | 18.2                   | 16.9       | 15.1          | 15.1   | 90   | 96                                 | 0.9                      |
| 17                  | 1024.9                       | 15.1                   | 13.2       | 11.8          | 4.9  | 60   | 89                                 | 9.1                      |
| 18                  | 1025.9                       | 13.8                   | 11.8       | 9.4           | -5.2   | 30   | 42                                 | Tr                       |
| 19                  | 1021.7                       | 16.6                   | 13.7       | 10.6          | 3.2  | 50   | 25                                 | -                        |
| 20                  | 1018.3                       | 19.2                   | 16.8       | 14.7          | 11.5   | 71   | 53                                 | -                        |
| 21                  | 1016.3                       | 19.8                   | 17.5       | 15.5          | 5.4  | 46   | 37                                 | Tr                       |
| 22                  | 1016.5                       | 20.3                   | 17.2       | 13.9          | 1.4  | 35   | 6                                  | -                        |
| 23                  | 1019.0                       | 20.2                   | 17.1       | 14.7          | 3.2  | 40   | 24                                 | -                        |
| 24                  | 1021.1                       | 20.1                   | 16.9       | 14.4          | 5.8  | 49   | 13                                 | -                        |
| 25                  | 1022.3                       | 18.5                   | 16.2       | 14.1          | 8.0  | 59   | 14                                 | -                        |
| 26                  | 1022.8                       | 18.8                   | 16.3       | 14.3          | 9.7  | 65   | 7                                  | -                        |
| 27                  | 1022.7                       | 18.8                   | 16.9       | 14.9          | 11.3   | 70   | 13                                 | -                        |
| 28                  | 1022.6                       | 20.6                   | 17.7       | 14.7          | 11.6   | 68   | 23                                 | -                        |
| 29                  | 1024.2                       | 18.9                   | 16.8       | 14.5          | 9.0  | 60   | 56                                 | Tr                       |
| 30                  | 1025.1                       | 17.3                   | 15.0       | 12.4          | 7.8  | 62   | 12                                 | -                        |
| 31                  | 1024.7                       | 18.7                   | 15.6       | 12.0          | 8.8  | 64   | 33                                 | -                        |
| 平均/總值<br>Mean/Total | 1020.0                       | 19.0                   | 16.6       | 14.4          | 9.3  | 64   | 51                                 | 25.7                     |
| 正常*<br>Normal*      | 1020.1                       | 20.4                   | 18.2       | 16.2          | 12.4   | 70   | 57                                 | 28.8                     |
| 觀測站<br>Station      | 天文台<br>Hong Kong Observatory |                        |            |               |  |  |                                    |                          |

天文台於十二月十日 15 時 18 分錄得本月最低氣壓 1012.9 百帕斯卡。

The minimum pressure recorded at the Hong Kong Observatory was 1012.9 hectopascals at 1518 HKT on 10 December.

天文台於十二月四日 13 時 28 分錄得本月最高氣溫 23.3 °C。

The maximum air temperature recorded at the Hong Kong Observatory was 23.3 °C at 1328 HKT on 4 December.

天文台於十二月十八日 7 時 46 分錄得本月最低氣溫 9.4 °C。

The minimum air temperature recorded at the Hong Kong Observatory was 9.4 °C at 0746 HKT on 18 December.

天文台於十二月十七日 5 時 10 分錄得本月最高1分鐘平均降雨率 19 毫米/小時。

The maximum 1-minute mean rainfall rate recorded at the Hong Kong Observatory was 19 millimetres per hour at 0510 HKT on 17 December.

\* 1991-2020 氣候平均值 (除特別列明外) ([https://www.hko.gov.hk/tc/cis/normal/1991\\_2020/normal.s.htm](https://www.hko.gov.hk/tc/cis/normal/1991_2020/normal.s.htm))

\* 1991-2020 Climatological normal, unless otherwise specified ([https://www.hko.gov.hk/en/cis/normal/1991\\_2020/normal.s.htm](https://www.hko.gov.hk/en/cis/normal/1991_2020/normal.s.htm))

Tr - 微量 (降雨量少於 0.05 毫米)

Tr - Trace of rainfall (amount less than 0.05 mm)

## 4.1.2 二零二二年十二月香港氣象觀測摘錄(二)

## 4.1.2 Extract of Meteorological Observations in Hong Kong (Part 2), December 2022

| 日期<br>Date          | 出現低能見度的時數#<br>Number of hours of<br>Reduced Visibility# | 總日照<br>Total Bright<br>Sunshine | 每日太陽總輻射<br>Daily Global<br>Solar Radiation     | 總蒸發量<br>Total<br>Evaporation | 盛行風向<br>Prevailing<br>Wind Direction | 平均風速<br>Mean<br>Wind Speed |
|---------------------|---|---------------------------------|--|------------------------------|--------------------------------------|----------------------------|
| 十二月<br>December     | 小時<br>hours   | 小時<br>hours                     | 兆焦耳/米 <sup>2</sup><br>MJ/m <sup>2</sup>        | 毫米<br>mm                     | 度<br>degrees                         | 公里/小時<br>km/h              |
| 1                   | 0   | 0.3                             | 7.29   | 3.4                          | 010                                  | 31.9                       |
| 2                   | 0   | 5.7                             | 13.89  | 2.4                          | 360                                  | 25.0                       |
| 3                   | 0   | 4.2                             | 11.17  | 2.1                          | 010                                  | 15.3                       |
| 4                   | 0   | 4.6                             | 11.76  | 3.4                          | 010                                  | 19.0                       |
| 5                   | 0   | 1.9                             | 8.15   | 2.8                          | 360                                  | 32.3                       |
| 6                   | 0   | 6.5                             | 13.86  | 2.8                          | 010                                  | 23.5                       |
| 7                   | 0   | 7.6                             | 14.65  | 3.2                          | 010                                  | 22.6                       |
| 8                   | 0   | 9.6                             | 16.10  | 2.4                          | 020                                  | 16.3                       |
| 9                   | 0   | 9.1                             | 16.12  | 3.1                          | 010                                  | 21.3                       |
| 10                  | 0   | 9.6                             | 16.45  | 3.6                          | 360                                  | 27.7                       |
| 11                  | 0   | 1.7                             | 8.91   | 2.9                          | 360                                  | 34.0                       |
| 12                  | 6   | 5.0                             | 12.37  | 3.6                          | 360                                  | 38.1                       |
| 13                  | 2   | -                               | 5.78   | 1.1                          | 360                                  | 29.8                       |
| 14                  | 0   | -                               | 3.39   | 0.4                          | 360                                  | 33.3                       |
| 15                  | 0   | -                               | 4.17   | 0.3                          | 030                                  | 24.3                       |
| 16                  | 0   | -                               | 2.53   | 1.3                          | 010                                  | 27.4                       |
| 17                  | 0   | -                               | 5.42   | 4.1                          | 360                                  | 61.2                       |
| 18                  | 0   | 8.9                             | 17.21  | 3.0                          | 010                                  | 41.9                       |
| 19                  | 0   | 8.9                             | 16.84  | 2.1                          | 010                                  | 29.2                       |
| 20                  | 0   | 7.3                             | 14.13  | 2.6                          | 060                                  | 31.4                       |
| 21                  | 0   | 8.8                             | 16.20  | 4.1                          | 360                                  | 27.0                       |
| 22                  | 0   | 9.4                             | 17.55  | 3.0                          | 010                                  | 22.6                       |
| 23                  | 0   | 9.0                             | 17.24  | 2.4                          | 010                                  | 23.1                       |
| 24                  | 0   | 9.4                             | 16.89  | 2.3                          | 020                                  | 22.4                       |
| 25                  | 0   | 9.3                             | 17.29  | 2.6                          | 070                                  | 31.0                       |
| 26                  | 0   | 9.3                             | 16.64  | 2.1                          | 070                                  | 29.4                       |
| 27                  | 0   | 9.3                             | 16.72  | 2.3                          | 070                                  | 35.1                       |
| 28                  | 0   | 9.3                             | 16.00  | 3.2                          | 060                                  | 27.7                       |
| 29                  | 6   | 5.6                             | 12.77  | 2.8                          | 360                                  | 26.3                       |
| 30                  | 4   | 9.3                             | 15.69  | 2.6                          | 360                                  | 30.1                       |
| 31                  | 0   | 8.9                             | 16.52  | 2.6                          | 360                                  | 26.1                       |
| 平均/總值<br>Mean/Total | 18  | 188.5                           | 12.89  | 80.6                         | 010                                  | 28.6                       |
| 正常*<br>Normal*      | 188.5 §   | 161.6                           | 10.91  | 80.9                         | 010                                  | 26.4                       |
| 觀測站<br>Station      | 香港國際機場<br>Hong Kong<br>International Airport            | 京士柏<br>King's Park              | 橫瀾島 <sup>^</sup><br>Waglan Island <sup>^</sup> |                              |                                      |                            |

橫瀾島於十二月十七日 9 時 42 分鐘得本月最高陣風 94 公里/小時，風向 360 度。

The maximum gust peak speed recorded at Waglan Island was 94 kilometres per hour from 360 degrees at 0942 HKT on 17 December.

# 低能見度是指能見度低於 8 公里，不包括出現霧、薄霧或降水。

- 在2004年及以前，香港國際機場的能見度讀數是基於專業氣象觀測員每小時的觀測數據。在2005年及以後，讀數是採用位於機場南跑道中間的能見度儀表在每小時前10分鐘的平均數據。這與使用儀器觀測來改進能見度評估的國際趨勢是一致的。
- 在2007年10月10日前曾出現於此摘錄內香港國際機場2005年及以後的低能見度時數資料乃基於專業氣象觀測員每小時的觀測數據。有關資料已於2007年10月10日起改為以機場南跑道中間之能見度儀表在每小時前10分鐘的平均數據計算。

# Reduced visibility refers to visibility below 8 kilometres when there is no fog, mist, or precipitation.

- The visibility readings at the Hong Kong International Airport are based on hourly observations by professional meteorological observers in 2004 and before, and average readings over the 10-minute period before the clock hour of the visibility meter near the middle of the south runway from 2005 onwards. The change of the data source in 2005 is an improvement of the visibility assessment using instrumented observations following the international trend.
- Before 10 October 2007, the number of hours of reduced visibility at the Hong Kong International Airport in 2005 and thereafter displayed in this summary was based on hourly visibility observations by professional meteorological observers. Since 10 October 2007, the data have been revised using the average visibility readings over the 10-minute period before the clock hour, as recorded by the visibility meter near the middle of the south runway.

<sup>^</sup> 如橫瀾島未能提供數據，則以長洲或其他鄰近氣象站的數據作補充，以計算盛行風向和平均風速。

<sup>^</sup> In case the data are not available from Waglan Island, observations of Cheung Chau or other nearby weather stations will be incorporated in computing the Prevailing Wind Direction and Mean Wind Speed.

\* 1991-2020 氣候平均值 (除特別列明外) ([https://www.hko.gov.hk/tc/cis/normal/1991\\_2020/normal.htm](https://www.hko.gov.hk/tc/cis/normal/1991_2020/normal.htm))

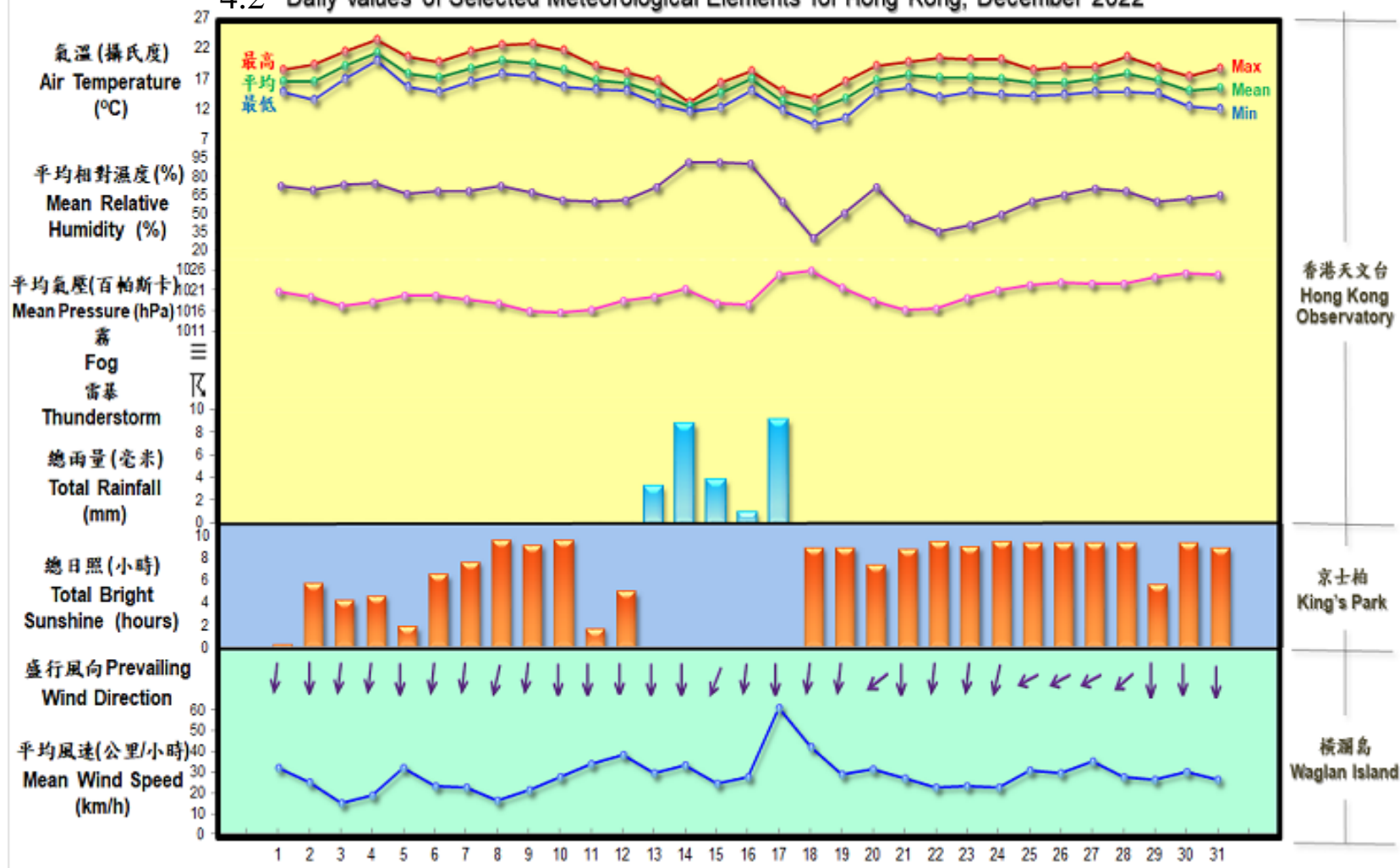
\* 1991-2020 Climatological normal, unless otherwise specified ([https://www.hko.gov.hk/en/cis/normal/1991\\_2020/normal.htm](https://www.hko.gov.hk/en/cis/normal/1991_2020/normal.htm))

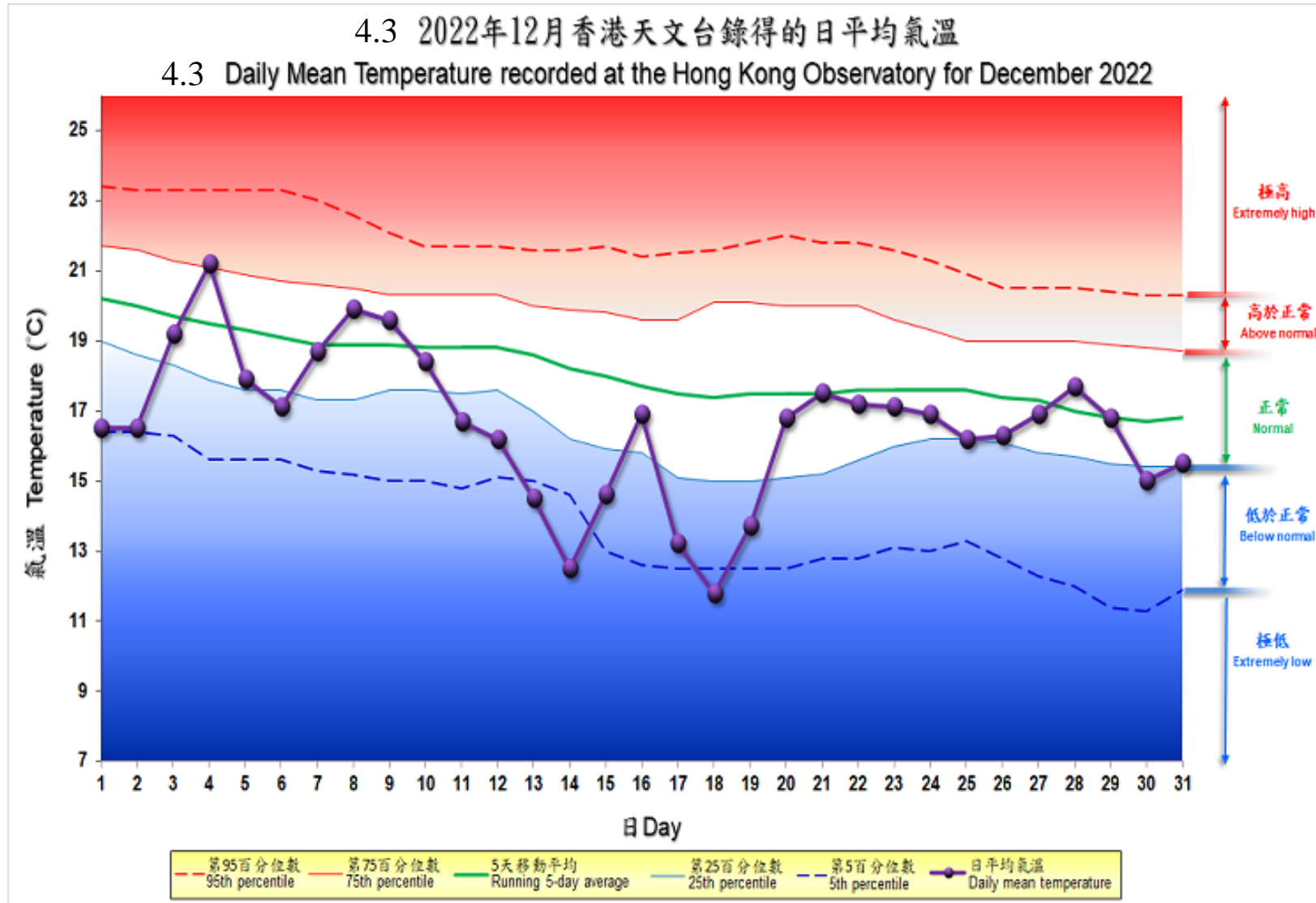
§ 1997-2021 平均值

§ 1997-2021 Mean value

### 4.2 2022年12月部分香港氣象要素的每日記錄

### 4.2 Daily Values of Selected Meteorological Elements for Hong Kong, December 2022





附註： 極高: 高於第95百分位數  
 高於正常: 介乎第75和第95百分位數之間  
 正常: 介乎第25和第75百分位數之間  
 低於正常: 介乎第5和第25百分位數之間  
 極低: 低於第5百分位數  
 百分位數值及5天移動平均值是基於1991至2020年的數據計算所得

Remarks: Extremely high: above 95th percentile  
 Above normal: between 75th and 95th percentile  
 Normal: between 25th and 75th percentile  
 Below normal: between 5th and 25th percentile  
 Extremely low: below 5th percentile  
 Percentile and 5-day running average values are computed based on the data from 1991 to 2020

## 5. 二零二二年天氣概況

根據世界氣象組織的初步評估，2022 年可能是全球有記錄以來第五或第六暖的一年。在 2022 年全球平均海平面繼續上升，創下歷史新高。2022 年大部分時間北極海冰覆蓋範圍都低於平均水平，而 9 月份的全年最低值亦是有衛星記錄以來的第十一低。2022 年各類極端天氣事件繼續在全球多處肆虐，當中包括巴基斯坦、中國、歐洲、地中海地區和北非的熱浪；北美洲及日本的暴風雪；非洲之角地區、中國、歐洲及地中海多處地區的嚴重乾旱；極端降雨引致的嚴重水浸亦影響巴基斯坦、阿富汗、印度、孟加拉、澳洲和南非東部；以及熱帶氣旋在馬達加斯加、莫桑比克、馬拉維、加勒比地區西部和菲律賓帶來的嚴重破壞及重大傷亡。

2022 年赤道太平洋中部及東部水溫持續低於正常，一次拉尼娜事件於 2022 年 3 月形成，並持續了整年。

本港方面，由於 7 月天氣破紀錄炎熱及 9 月至 11 月為最溫暖的秋季，2022 年的天氣較正常溫暖，全年平均氣溫為 23.9 度，較 1991-2020 年正常值[1]高 0.4 度，是自 1884 年有記錄以來其中一個第六溫暖的年份。而全年平均最高氣溫 26.7 度及平均最低氣溫 22.0 度，亦是有記錄以來各自的第五高及其中一個第七高。香港天文台於 7 月 24 日錄得全年最高氣溫 36.1 度，是有記錄以來其中一個第三高。2022 年的熱夜[2]數目和酷熱天氣[3]日數均是 52 天，兩者皆是有記錄以來第二高。此外，2022 年共有 15 日天文台日最高氣溫為 35.0 度或以上，是有記錄以來最多。

天文台於 2 月 21 日錄得全年最低氣溫 7.5 度。全年寒冷天氣[4]日數為 13 天，較 1991-2020 正常值少 2.2 天。

2022 年本港的全年雨量為 2,205.4 毫米，較 1991-2020 正常值 2,431.2 毫米少約百分之 9。年內天文台曾發出兩次紅色暴雨警告。2022 年的雷暴日數為 25 天，較 1991-2020 正常值少約 17 天。

2022 年共有 27 個熱帶氣旋影響北太平洋西部及南海，較長期(1961-2010)平均的約 30 個為少。全年有 11 個熱帶氣旋達到颱風或以上強度[5]，低於長期平均的約 15 個，當中有 4 個熱帶氣旋達到超強颱風強度（中心附近最高十分鐘持續風速達到每小時 185 公里或以上）。本港方面，年內有 6 個熱帶氣旋令天文台需要發出熱帶氣旋警告信號，接近長期年平均。天文台在 7 月暹芭、8 月馬鞍及 11 月尼格吹襲本港期間發出八號烈風或暴風信號。

有關各月份的詳細天氣論述，可參考「每月天氣摘要」網頁：  
<https://www.hko.gov.hk/tc/wxinfo/pastwx/mws/mws.htm>。

2022 年本港發生的重要天氣事件扼述如下：

### 極少雨和陽光充沛的四月

由於 2022 年 4 月大部分時間香港受乾燥東北季候風影響及輸送到華南沿岸的水汽較少，4 月香港遠較正常少雨。全月總雨量為 3.5 毫米，只是正常值 153.0 毫米的百分之 2，是有記錄以來最少雨的 4 月。此外，4 月平均相對濕度為百分之 73，是自 1961 年以來 4 月份的最低紀錄。4 月亦遠較正常多陽光，月內的總日照為 191.1 小時，較正常值 113.2 小時多約百分之 69，是有記錄以來 4 月份的第 5 高。

### 五月十一日至十三日的大雨

位於華南北部的一道活躍低壓槽於 2022 年 5 月 10 日向南靠近，並在其後數日於廣東沿岸徘徊。5 月 11 日至 13 日該低壓槽為珠江口一帶帶來大驟雨及狂風雷暴。香港各區在這 3 日普遍錄得超過 300 毫米雨量，港島部分地區更錄得超過 400 毫米雨量。5 月 13 日早上的大雨亦令天文台需要發出今年首個紅色暴雨警告信號。

### 暹芭襲港

2022 年 6 月下旬熱帶氣旋暹芭在南海中部形成，隨後移向廣東西部沿岸，並於 7 月 2 日在該區登陸。由於暹芭逼近，7 月 1 日稍後香港風力明顯增強，香港天文台需要發出本年首個八號烈風或暴風信號，亦是首次在香港特別行政區成立紀念日發出八號熱帶氣旋信號。7 月 2 日香港普遍吹強風至烈風，初時離岸及高地間中吹暴風。暹芭的外圍雨帶亦在 6 月 30 日至 7 月 3 日為香港帶來狂風大驟雨及雷暴，這四天本港普遍錄得超過 150 毫米雨量，而港島部分地區更錄得超過 250 毫米雨量。

### 破紀錄高溫的七月

由於較正常強的副熱帶高壓脊在月內持續影響華南，並為該區帶來長時間的高溫天氣，2022 年 7 月成為香港自 1884 年有記錄以來最熱的月份，打破了之前 2020 年 7 月的紀錄。該月平均氣溫 30.3 度及平均最低氣溫 28.4 度，分別較正常值高 1.4 度及 1.5 度，兩者均為有記錄以來相關月平均值的最高。此外，該月平均最高氣溫 33.3 度較正常值高 1.7 度，亦是最高紀錄之一。2022 年 7 月香港天文台日最高氣溫為 35.0 度或以上共有 10 天，刷新了單月的最高紀錄。2022 年 7 月的熱夜數目共 25 天，是有記錄以來最多熱夜數目的月份，而由 7 月 9 日開始的連續 21 個熱夜，亦成為了新紀錄。此外，該月的酷熱天氣日數為 21 天，是有記錄以來的單月最高。

### 尼格 – 十一月的風暴

強烈熱帶風暴尼格在肆虐菲律賓後，在 2022 年 10 月 30 日至 11 月 1 日向西北偏北移動，橫過南海中部及北部，移向廣東沿岸。11 月 2 日尼格繼續靠近廣東沿岸，但因受東北季候風影響，下午尼格減弱為熱帶風暴。11 月 2 日晚上尼格橫過本港南部水域，並在翌日早上最接近本港，在本港之西南偏南掠過。隨後尼格在珠海登陸。隨著尼格靠近，11 月 2 日下午天文台發出八號烈風或暴風信號。尼格是本港自 1946 年以來第三個需要在 11 月發出八號警告信號的熱帶氣旋。上一次在 11 月發出八號警告信號是在



1972 年。11 月 2 日稍後至翌日初時本港普遍吹強風至烈風，離岸及高地間中吹暴風。尼格的外圍雨帶於 11 月 2 日至 3 日為本港間中帶來狂風驟雨。這兩天本港普遍錄得超過 30 毫米雨量，而市區及東部地區的雨量更超過 80 毫米。

### **最溫暖的秋季**

香港在 2022 年 9 月至 11 月期間經歷了有記錄以來最溫暖的秋季。2022 年秋季平均最高氣溫 29.2 度及平均氣溫 26.4 度，兩者均為有記錄以來同期最高紀錄。此外，平均最低氣溫為 24.4 度亦是同期最高紀錄之一。

附註：

- [1] 1961-1990、1971-2000、1981-2010 及 1991-2020 氣候平均值，可參考：  
<https://www.hko.gov.hk/tc/cis/normal.htm>。除特別註明外，本文採用 1991-2020 氣候平均值。
- [2] 熱夜指當日最低氣溫在 28.0 度或以上。
- [3] 酷熱天氣指當日最高氣溫達 33.0 度或以上。
- [4] 寒冷天氣指當日最低氣溫在 12.0 度或以下。
- [5] 熱帶氣旋分級資料可參考：<https://www.hko.gov.hk/tc/informtc/class.htm>。

表 5.1.1 2022 年破紀錄高溫天氣事件摘要

| 破紀錄事件<br>(自 1884 年有記錄以來)  | 日期 / 週期               | 新紀錄    |
|---|-----------------------|--------|
| 1. 最少 1 月份寒冷天氣日數<br>(與 1901 年 1 月、1996 年 1 月及 2017 年 1 月並列最少)         | 2022 年 1 月            | 0 天    |
| 2. 最高 3 月份平均最高氣溫  | 2022 年 3 月            | 25.0°C |
| 3. 最高大暑日最高氣溫  | 2022 年 7 月 23 日       | 34.9°C |
| 4. 上水氣象站最高氣溫<br>(自 2004 年有記錄以來)                                       | 2022 年 7 月 24 日       | 39.0°C |
| 5. 最高 7 月份最高氣溫  | 2022 年 7 月 24 日       | 36.1°C |
| 6. 最高 7 月份日平均氣溫   | 2022 年 7 月 24 日及 25 日 | 32.0°C |
| 7. 最高 7 月份日最低氣溫   | 2022 年 7 月 25 日       | 29.9°C |
| 8. 最高 7 月份平均最高氣溫<br>(與 2020 年 7 月並列最高)                                | 2022 年 7 月            | 33.3°C |
| 9. 最高 7 月份平均氣溫  | 2022 年 7 月            | 30.3°C |
| 10. 最高 7 月份平均最低氣溫   | 2022 年 7 月            | 28.4°C |
| 11. 最高月平均最高氣溫<br>(與 2020 年 7 月並列最高)                                   | 2022 年 7 月            | 33.3°C |
| 12. 最高月平均氣溫   | 2022 年 7 月            | 30.3°C |
| 13. 最高月平均最低氣溫   | 2022 年 7 月            | 28.4°C |
| 14. 最多 7 月份日最高氣溫 $\geq 35.0^{\circ}\text{C}$ 日數                       | 2022 年 7 月            | 10 天   |
| 15. 最多日最高氣溫 $\geq 35.0^{\circ}\text{C}$ 日數月份                          | 2022 年 7 月            | 10 天   |
| 16. 最多 7 月份酷熱天氣日數   | 2022 年 7 月            | 21 天   |
| 17. 最多酷熱天氣日數月份  | 2022 年 7 月            | 21 天   |
| 18. 最多 7 月份熱夜數目   | 2022 年 7 月            | 25 天   |
| 19. 最多熱夜數目月份  | 2022 年 7 月            | 25 天   |
| 20. 最多 7 月份連續熱夜數目   | 2022 年 7 月 9 日至 29 日  | 21 天   |
| 21. 最多連續熱夜數目月份  | 2022 年 7 月 9 日至 29 日  | 21 天   |
| 22. 最多 8 月份日最高氣溫 $\geq 35.0^{\circ}\text{C}$ 日數<br>(與 1900 年 8 月並列最多) | 2022 年 8 月            | 2 天    |
| 23. 最高 9 月份最高氣溫   | 2022 年 9 月 13 日       | 35.9°C |
| 24. 最高 9 月份日平均氣溫  | 2022 年 9 月 13 日及 14 日 | 31.7°C |
| 25. 最高 9 月份日最低氣溫  | 2022 年 9 月 14 日       | 29.6°C |
| 26. 最多 9 月份日最高氣溫 $\geq 35.0^{\circ}\text{C}$ 日數                       | 2022 年 9 月            | 3 天    |
| 27. 最高重陽節日最高氣溫  | 2022 年 10 月 4 日       | 33.5°C |
| 28. 最高 10 月份平均最高氣溫<br>(與 2019 年 10 月並列最高)                             | 2022 年 10 月           | 29.5°C |

|   |                      |        |
|---|----------------------|--------|
| 29. 最多 10 月份酷熱天氣日數<br>(與 1890 年 10 月並列最多) | 2022 年 10 月          | 2 天    |
| 30. 最高秋季平均最高氣溫                            | 2022 年 9 月至 11 月     | 29.2°C |
| 31. 最高秋季平均氣溫                              | 2022 年 9 月至 11 月     | 26.4°C |
| 32. 最高秋季平均最低氣溫<br>(與 2015 年並列最高)          | 2022 年 9 月至 11 月     | 24.4°C |
| 33. 最多全年連續熱夜數目                            | 2022 年 7 月 9 日至 29 日 | 21 天   |
| 34. 最多全年日最高氣溫 $\geq$ 35.0°C 日數            | 2022 年               | 15 天   |

表 5.1.2 2022 年其他破紀錄極端天氣事件摘要

| 破紀錄事件                                      | 日期 / 週期        | 新紀錄      |
|--|----------------|----------|
| 1. 最低 4 月份相對濕度<br>(自 1984 年天文台總部設置自動氣象站以來) | 2022 年 4 月 8 日 | 22%      |
| 2. 最低 4 月份平均相對濕度<br>(自 1961 年以來)           | 2022 年 4 月     | 73%      |
| 3. 最低 4 月份總雨量<br>(自 1884 年有記錄以來)           | 2022 年 4 月     | 3.5 毫米   |
| 4. 最低 5 月份日平均氣溫<br>(自 1884 年有記錄以來)         | 2022 年 5 月 2 日 | 18.5°C   |
| 5. 最少 11 月份總日照時數<br>(自 1884 年有記錄以來)        | 2022 年 11 月    | 100.3 小時 |
| 6. 最高 11 月份平均相對濕度<br>(自 1961 年以來)          | 2022 年 11 月    | 83%      |

## 5. The Year's Weather – 2022

Globally, 2022 is likely to be the fifth or sixth warmest year on record according to the World Meteorological Organization's preliminary assessment. Global mean sea level continued to rise, reaching a new record high in 2022. Over the Arctic, sea-ice extent was below average for most of the time in 2022 and the minimum sea-ice extent in September was one of the eleventh lowest in the satellite record. In 2022, various extreme weather events continued to batter different parts of the world, including heatwaves in Pakistan, China, Europe, Mediterranean region and North Africa; blizzards in North America and Japan; severe drought in the Greater Horn of Africa region, China, and many parts of Europe and the Mediterranean; extreme rainfall triggered severe flooding in Pakistan, Afghanistan, India, Bangladesh, Australia and eastern South Africa; and severe damages and heavy casualties brought by tropical cyclones in Madagascar, Mozambique, Malawi, western Caribbean and the Philippines.

Sea surface temperatures of the central and eastern equatorial Pacific were persistently below normal in 2022. A La Niña event was established in March 2022 and persisted throughout the year.

In Hong Kong, with a record-breaking hot July and the warmest autumn from September to November, the weather was warmer than usual in 2022 with an annual mean temperature of 23.9 degrees, 0.4 degree above the 1991-2020 normal[1] and among the sixth warmest since records began in 1884. The annual mean maximum temperature of 26.7 degrees and annual mean minimum temperature of 22.0 degrees were also the fifth and one of the seventh highest on record respectively. The highest temperature recorded at the Hong Kong Observatory in the year was 36.1 degrees on 24 July, one of the third highest on record. There were 52 Hot Nights[2] and 52 Very Hot Days[3] in Hong Kong in 2022, both ranking the second highest on record. Moreover, there were 15 days with daily maximum temperatures at the Observatory equal to or higher than 35.0 degrees in 2022, the highest on record.

The lowest temperature recorded at the Observatory in the year was 7.5 degrees on 21 February. The number of Cold Days[4] in the year was 13 days, 2.2 days less than the 1991-2020 normal.

The annual total rainfall in 2022 was 2205.4 millimetres, about 9 percent below the 1991-2020 normal of 2431.2 millimetres. Two red rainstorm warnings were issued by the Observatory in the year. The number of days with thunderstorms reported in Hong Kong was 25 days in 2022, about 17 days less than the 1991-2020 normal.

A total of 27 tropical cyclones occurred over the western North Pacific and the South China

Sea in 2022, less than the long-term (1961-2020) average of about 30. There were 11 tropical cyclones reaching typhoon intensity[5] or above during the year, less than the long-term average of about 15, and four of them reached super typhoon intensity (with maximum 10-minute wind speed of 185 km/h or above near the centre). In Hong Kong, six tropical cyclones necessitated the issuance of tropical cyclone warning signals, near the long-term average in a year. The No. 8 Gale or Storm Signals were issued during the passages of Chaba in July, Ma-on in August and Nalgae in November.

Detailed description of the weather for individual months is available on the Monthly Weather Summary webpage:

<https://www.hko.gov.hk/en/wxinfo/pastwx/mws/mws.htm>.

Some significant weather events in Hong Kong in 2022 are highlighted below:

### **An extremely dry and sunny April**

With dry northeast monsoon affecting Hong Kong and less moisture supply to the south China coast for most of the time in the month, April 2022 was much drier than usual in Hong Kong. The total rainfall in the month was 3.5 millimetres, only about 2 percent of the normal figure of 153.0 millimetres and the lowest on record for April. Moreover, the monthly mean relative humidity was 73 percent, the lowest on record for April since 1961. The month was also much sunnier than usual, the total duration of bright sunshine in the month was 191.1 hours, about 69 percent above the normal of 113.2 hours and the fifth highest on record for April.

### **Heavy rain on 11-13 May**

An active trough of low pressure over the northern part of southern China edged south on 10 May 2022 and lingered along the coast of Guangdong in the next few days. The trough of low pressure brought heavy showers and squally thunderstorms to the Pearl River Estuary areas on 11 – 13 May 2022. In Hong Kong, more than 300 millimetres of rainfall were generally recorded over the territory and rainfall even exceeded 400 millimetres over parts of Hong Kong Island on these three days. The heavy rain on the morning of 13 May 2022 also necessitated the issuance of the first Red Rainstorm Warning Signal of the year.

### **Strike of Chaba**

Tropical cyclone Chaba formed over the central part of the South China Sea in late June 2022. It then moved towards the coast of western Guangdong and made landfall over there on 2 July 2022. With the approach of Chaba, local winds strengthened significantly later on 1 July 2022, necessitating the issuance of the first No.8 Gale or Storm Signal in this year and also the first time on the HKSAR Establishment Day. Strong to gale force winds generally affected the territory on 2 July 2022, with occasional storm force winds offshore and on high ground at first. The outer rainbands of Chaba also brought heavy squally showers and thunderstorms to Hong

Kong on 30 June - 3 July 2022. More than 150 millimetres of rainfall were generally recorded over Hong Kong on these four days and rainfall even exceeded 250 millimetres over parts of Hong Kong Island.

### **A July with record-breaking high temperatures**

With a stronger than usual subtropical ridge persisting over southern China and bringing prolonged high temperature weather to the region in the month, July 2022 was the hottest month in Hong Kong since records began in 1884, breaking the previous record set in July 2020. The monthly mean temperature of 30.3 degrees and monthly mean minimum temperature of 28.4 degrees were 1.4 degrees and 1.5 degrees above their normals and both were the highest of the correspondingly monthly mean values on record. Moreover, the monthly mean maximum temperature of 33.3 degrees was 1.7 degrees above the normal and one of the highest on record. There were 10 days with daily maximum temperatures at the Hong Kong Observatory equal to or higher than 35.0 degrees, the highest number in a month on record. With a total of 25 hot nights, July 2022 was the month with the highest number of hot nights on record and the 21 consecutive hot nights that started from 9 July 2022 also set a new record. Moreover, there were 21 very hot days in the month, the highest number of very hot days in a month on record.

### **Nalgae – the storm in November**

After wreaking havoc in the Philippines, severe tropical storm Nalgae moved north-northwestwards across the central and northern parts of the South China Sea towards the coast of Guangdong on 30 October - 1 November 2022. It continued to edge closer to the coast of Guangdong on 2 November 2022, but weakened into a tropical storm in the afternoon due to the influence of the northeast monsoon. Nalgae skirted past the southern waters of Hong Kong on the night of 2 November 2022 and came closest to the south-southwest of Hong Kong on the early morning of 3 November 2022. It then made landfall over Zhuhai. With the approach of Nalgae, the Observatory issued the No.8 Gale or Storm Signal on the afternoon of 2 November 2022. Nalgae was the third tropical cyclone requiring the issuance of the No. 8 Signal in Hong Kong in November since records began in 1946. The last time when the No. 8 Signal was issued in November was in 1972. Strong to gale force winds generally affected Hong Kong with occasional storm force winds offshore and on high ground later on 2 November 2022 and at first on 3 November 2022. The outer rainbands of Nalgae also brought occasional squally showers to Hong Kong on 2 – 3 November 2022. More than 30 millimetres of rainfall were generally recorded over Hong Kong on these two days and rainfall even exceeded 80 millimetres over the urban areas and the eastern part of the territory.

### **Warmest autumn**

Hong Kong experienced the warmest autumn on record from September to November 2022. The mean maximum temperature of 29.2 degrees and the mean temperature of 26.4 degrees

were both the highest on record for autumn. Moreover, the mean minimum temperature of 24.4 degrees was also one of the highest on record for autumn.

**Notes:**

- [1] Climatological normals for the reference period of 1961-1990, 1971-2000, 1981-2010 and 1991-2020 are available at: <https://www.hko.gov.hk/en/cis/normal.htm>. Climatological normals of 1991-2020 are referenced in the text unless otherwise stated.
- [2] “Hot Night” refers to the condition with the daily minimum temperature equal to or higher than 28.0 degrees.
- [3] “Very Hot Day” refers to the condition with the daily maximum temperature equal to or higher than 33.0 degrees.
- [4] “Cold Day” refers to the condition with the daily minimum temperature equal to or lower than 12.0 degrees.
- [5] Information on the classification of Tropical Cyclones is available at: <https://www.hko.gov.hk/en/informtc/class.htm>.

**Table 5.1.3 Summary of record-breaking high temperature events in 2022**

| <b>Record-breaking Events<br/>(since records began in 1884)</b>  | <b>Date / Period</b>     | <b>New Record</b> |
|--|--------------------------|-------------------|
| 1. Fewest number of Cold Days for January (on par with January 1901, January 1996 and January 2017)                  | January 2022             | 0 Days            |
| 2. Highest Mean Maximum Temperature for March  | March 2022               | 25.0°C            |
| 3. Highest Daily Maximum Temperature for Great Heat  | 23 July 2022             | 34.9°C            |
| 4. Highest Temperature at Sheung Shui Weather Station (since records began in 2004)                                  | 24 July 2022             | 39.0°C            |
| 5. Highest Maximum Temperature for July  | 24 July 2022             | 36.1°C            |
| 6. Highest Daily Mean Temperature for July   | 24 and 25 July 2022      | 32.0°C            |
| 7. Highest Daily Minimum Temperature for July  | 25 July 2022             | 29.9°C            |
| 8. Highest Mean Maximum Temperature for July (on par with July 2020)   | July 2022                | 33.3°C            |
| 9. Highest Mean Temperature for July   | July 2022                | 30.3°C            |
| 10. Highest Mean Minimum Temperature for July  | July 2022                | 28.4°C            |
| 11. Highest Mean Maximum Temperature for All Months (on par with July 2020)  | July 2022                | 33.3°C            |
| 12. Highest Mean Temperature for All Months  | July 2022                | 30.3°C            |
| 13. Highest Mean Minimum Temperature for All Months  | July 2022                | 28.4°C            |
| 14. Highest Number of Days with Maximum Temperature $\geq 35.0^{\circ}\text{C}$ for July                             | July 2022                | 10 Days           |
| 15. Highest Number of Days with Maximum Temperature $\geq 35.0^{\circ}\text{C}$ for All Months                       | July 2022                | 10 Days           |
| 16. Highest Number of Very Hot Days for July   | July 2022                | 21 Days           |
| 17. Highest Number of Very Hot Days for All Months   | July 2022                | 21 Days           |
| 18. Highest Number of Hot Nights for July  | July 2022                | 25 Days           |
| 19. Highest Number of Hot Nights for All Months  | July 2022                | 25 Days           |
| 20. Highest Number of Consecutive Hot Nights for July  | 9 – 29 July 2022         | 21 Days           |
| 21. Highest Number of Consecutive Hot Nights for All Months  | 9 – 29 July 2022         | 21 Days           |
| 22. Highest Number of Days with Maximum Temperature $\geq 35.0^{\circ}\text{C}$ for August (on par with August 1900) | August 2022              | 2 Days            |
| 23. Highest Maximum Temperature for September  | 13 September 2022        | 35.9°C            |
| 24. Highest Daily Mean Temperature for September   | 13 and 14 September 2022 | 31.7°C            |



|   |                            |         |
|---|----------------------------|---------|
| 25. Highest Daily Minimum Temperature for September   | 14 September 2022          | 29.6°C  |
| 26. Highest Number of Days with Maximum Temperature $\geq 35.0^{\circ}\text{C}$ for September | September 2022             | 3 Days  |
| 27. Highest Daily Maximum Temperature for Chung Yeung Festival                                | 4 October 2022             | 33.5°C  |
| 28. Highest Mean Maximum Temperature for October (on par with October 2019)                   | October 2022               | 29.5°C  |
| 29. Highest Number of Very Hot Days for October (on par with October 1890)                    | October 2022               | 2 Days  |
| 30. Highest Mean Maximum Temperature for autumn   | September to November 2022 | 29.2°C  |
| 31. Highest Mean Temperature for autumn   | September to November 2022 | 26.4°C  |
| 32. Highest Mean Minimum Temperature for autumn (on par with 2015)                            | September to November 2022 | 24.4°C  |
| 33. Highest Annual Number of Consecutive Hot Nights   | 9 – 29 July 2022           | 21 Days |
| 34. Highest Annual Number of Days with Maximum Temperature $\geq 35.0^{\circ}\text{C}$        | 2022                       | 15 Days |

**Table 5.1.4 Summary of other record-breaking extreme weather events in 2022**

| <b>Record-breaking Events</b>   | <b>Date / Period</b> | <b>New Record</b> |
|---|----------------------|-------------------|
| 1. Lowest Relative Humidity for April (since the automatic weather station was established at the Observatory's Headquarters in 1984) | 8 April 2022         | 22%               |
| 2. Lowest Mean Relative Humidity for April (since 1961)   | April 2022           | 73%               |
| 3. Lowest Total Rainfall for April (since 1884)   | April 2022           | 3.5 mm            |
| 4. Lowest Daily Mean Temperature for May (since 1884)   | 2 May 2022           | 18.5°C            |
| 5. Lowest Total Hours of Bright Sunshine for November (since 1884)  | November 2022        | 100.3 Hours       |
| 6. Highest Mean RH for November (since 1961)  | November 2022        | 83%               |

表 5.2.1 二零二二年香港氣象觀測摘要(一)

Table 5.2.1 Summary of Meteorological Observations in Hong Kong (Part1), 2022

| 月份<br>Month                                   | 氣 溫<br>Air Temperature       |                                |            |                                | 平均<br>露點溫度<br>Mean<br>Dew Point<br>Temperature | 平均<br>相對濕度<br>Mean<br>Relative<br>Humidity | 平均雲量<br>Mean<br>Amount<br>of Cloud | 總雨量<br>Total Rainfall |
|---|------------------------------|--------------------------------|------------|--------------------------------|--|--|------------------------------------|-----------------------|
|   | 平均氣壓<br>Mean<br>Pressure     | 平均日最高<br>Mean Daily<br>Maximum | 平均<br>Mean | 平均日最低<br>Mean Daily<br>Minimum |  |  |                                    |                       |
|   | 百帕斯卡<br>hPa                  | °C                             | °C         | °C                             |  |  |                                    |                       |
| 一月<br>January                                 | 1018.8                       | 20.2                           | 18.0       | 16.5                           | 14.0   | 78   | 67                                 | 4.1                   |
| 二月<br>February                                | 1019.3                       | 17.7                           | 15.2       | 13.4                           | 11.8   | 81   | 77                                 | 168.5                 |
| 三月<br>March                                   | 1014.0                       | 25.0                           | 21.5       | 19.2                           | 17.4   | 79   | 64                                 | 92.7                  |
| 四月<br>April                                   | 1013.9                       | 27.1                           | 23.7       | 21.5                           | 18.4   | 73   | 58                                 | 3.5                   |
| 五月<br>May                                     | 1009.7                       | 27.7                           | 25.0       | 23.3                           | 21.3   | 81   | 82                                 | 436.5                 |
| 六月<br>June                                    | 1006.5                       | 31.0                           | 28.6       | 26.8                           | 25.0   | 81   | 83                                 | 349.2                 |
| 七月<br>July                                    | 1006.0                       | 33.3                           | 30.3       | 28.4                           | 25.6   | 77   | 61                                 | 158.5                 |
| 八月<br>August                                  | 1006.8                       | 31.9                           | 28.8       | 26.8                           | 25.4   | 82   | 71                                 | 614.8                 |
| 九月<br>September                               | 1008.4                       | 32.7                           | 29.6       | 27.3                           | 22.8   | 69   | 54                                 | 171.2                 |
| 十月<br>October                                 | 1014.3                       | 29.5                           | 26.2       | 23.9                           | 18.7   | 65   | 56                                 | 49.9                  |
| 十一月<br>November                               | 1014.8                       | 25.4                           | 23.4       | 22.0                           | 20.2   | 83   | 71                                 | 130.8                 |
| 十二月<br>December                               | 1020.0                       | 19.0                           | 16.6       | 14.4                           | 9.3  | 64   | 51                                 | 25.7                  |
| 平均/總值<br>Mean/Total                           | 1012.7                       | 26.7                           | 23.9       | 22.0                           | 19.2   | 76   | 66                                 | 2205.4                |
| 氣候平均值<br>Climatological normal<br>(1991-2020) | 1012.9                       | 26.0                           | 23.5       | 21.6                           | 19.3   | 78   | 68                                 | 2431.2                |
| 氣候平均值<br>Climatological normal<br>(1981-2010) | 1012.9                       | 25.6                           | 23.3       | 21.4                           | 19.0   | 78   | 68                                 | 2398.5                |
| 觀測站<br>Station                                | 天文台<br>Hong Kong Observatory |                                |            |                                |  |  |                                    |                       |

香港天文台於七月一日 18 時 13 分錄得本年最低氣壓 997.8 百帕斯卡。

The annual minimum pressure recorded at the Hong Kong Observatory was 997.8 hectopascals at 1813 HKT on 1 July.

香港天文台於七月二十四日 14 時 31 分錄得本年最高氣溫 36.1 °C。

The annual maximum air temperature recorded at the Hong Kong Observatory was 36.1 degrees Celsius at 1431 HKT on 24 July.

天文台於二月二十一日 8 時 2 分錄得本年最低氣溫 7.5 °C。

The annual minimum air temperature recorded at the Hong Kong Observatory was 7.5 degrees Celsius at 0802 HKT on 21 February.

京士柏於八月九日 22 時 46 分錄得本年最高1分鐘平均降雨率 141 毫米/小時。

The annual maximum 1-minute mean rainfall rate recorded at King's Park was 141 millimetres per hour at 2246 HKT on 9 August.

Tr - 微量 (降雨量少於 0.05 毫米)

Tr - Trace of rainfall (amount less than 0.05 mm)

表 5.2.2 二零二二年香港氣象觀測摘要(二)

Table 5.2.2 Summary of Meteorological Observations in Hong Kong (Part2), 2022

| 月份<br>Month                                   | 出現低能見度的時數#<br>Number of hours of<br>Reduced Visibility# |  | 總日照<br>Total Bright<br>Sunshine | 平均每日<br>太陽總輻射<br>Mean Daily Global<br>Solar Radiation | 總蒸發量<br>Total<br>Evaporation | 盛行風向<br>Prevailing<br>Wind Direction           | 平均風速<br>Mean<br>Wind Speed |
|---|---|--|---------------------------------|---|------------------------------|--|----------------------------|
|   | 小時<br>hours   | 小時<br>hours                                  | 小時<br>hours                     | 兆焦耳/米 <sup>2</sup><br>MJ/m <sup>2</sup>               | 毫米<br>mm                     | 度<br>degrees                                   | 公里/小時<br>km/h              |
| 一月<br>January                                 | 98  | 103  | 133.7                           | 11.04   | 70.3                         | 070  | 24.8                       |
| 二月<br>February                                | 32  | 16   | 99.1                            | 10.41   | 54.4                         | 010  | 27.1                       |
| 三月<br>March                                   | 106   | 40   | 169.5                           | 15.08   | 91.2                         | 040  | 20.3                       |
| 四月<br>April                                   | 19  | 9  | 191.1                           | 17.98   | 111.4                        | 080  | 18.9                       |
| 五月<br>May                                     | 2   | 1  | 124.6                           | 14.27   | 82.7                         | 080  | 24.2                       |
| 六月<br>June                                    | 0   | 0  | 116.1                           | 14.33   | 86.7                         | 220  | 21.1                       |
| 七月<br>July                                    | 20  | 4  | 226.2                           | 19.80   | 126.4                        | 230  | 22.4                       |
| 八月<br>August                                  | 6   | 2  | 167.7                           | 16.22   | 99.3                         | 090  | 18.6                       |
| 九月<br>September                               | 74  | 5  | 237.4                           | 18.33   | 135.6                        | 080  | 21.5                       |
| 十月<br>October                                 | 0   | 0  | 241.0                           | 17.49   | 148.3                        | 080  | 32.0                       |
| 十一月<br>November                               | 33  | 8  | 100.3                           | 9.58  | 54.7                         | 070  | 27.7                       |
| 十二月<br>December                               | 11  | 18   | 188.5                           | 12.89   | 80.6                         | 010  | 28.6                       |
| 平均/總值<br>Mean/Total                           | 401   | 206  | 1995.2                          | 14.79   | 1141.6                       | 070  | 23.9                       |
| 氣候平均值<br>Climatological normal<br>(1991-2020) | 825.8   | 1074.5                                       | § 1829.3                        | 13.23   | 1204.1                       | 070  | 22.9                       |
| 氣候平均值<br>Climatological normal<br>(1981-2010) | 692.3   | 1074.5                                       | § 1835.6                        | 12.85   | 1227.3                       | 080  | 23.3                       |
| 觀測站<br>Station                                | 天文台<br>Hong Kong<br>Observatory                         | 香港國際機場<br>Hong Kong<br>International Airport |                                 | 京士柏<br>King's Park                                    |                              | 橫瀾島 <sup>^</sup><br>Waglan Island <sup>^</sup> |                            |

橫瀾島於十一月二日 22 時 7 分錄得本年最高陣風 112 公里/小時，風向 060 度。

The annual maximum gust peak speed recorded at Waglan Island was 112 kilometres per hour from 060 degrees at 2207 HKT on 2 November.

# 低能見度是指能見度低於 8 公里，不包括出現霧、薄霧或降水。

- 在2004年及以前，香港國際機場的能見度讀數是基於專業氣象觀測員每小時的觀測數據。在2005年及以後，讀數是採用位於機場南跑道中間的能見度儀表在每小時前10分鐘的平均數據。這與使用儀器觀測來改進能見度評估的國際趨勢是一致的。
- 在2007年10月10日前曾出現於此摘錄內香港國際機場2005年及以後的低能見度時數資料乃基於專業氣象觀測員每小時的觀測數據。有關資料已於2007年10月10日起改為以機場南跑道中間之能見度儀表在每小時前10分鐘的平均數據計算。

# Reduced visibility refers to visibility below 8 kilometres when there is no fog, mist, or precipitation.

- The visibility readings at the Hong Kong International Airport are based on hourly observations by professional meteorological observers in 2004 and before, and average readings over the 10-minute period before the clock hour of the visibility meter near the middle of the south runway from 2005 onwards. The change of the data source in 2005 is an improvement of the visibility assessment using instrumented observations following the international trend.
- Before 10 October 2007, the number of hours of reduced visibility at the Hong Kong International Airport in 2005 and thereafter displayed in this summary was based on hourly visibility observations by professional meteorological observers. Since 10 October 2007, the data have been revised using the average visibility readings over the 10-minute period before the clock hour, as recorded by the visibility meter near the middle of the south runway.

§ 1997-2021 平均值

§ 1997-2021 Mean value

<sup>^</sup> 如橫瀾島未能提供數據，則以長洲或其他鄰近氣象站的數據作補充，以計算盛行風向和平均風速

<sup>^</sup> In case the data are not available from Waglan Island, observations of Cheung Chau or other nearby weather stations will be incorporated in computing the Prevailing Wind Direction and Mean Wind Speed

表 5.2.3 二零二二年香港氣象觀測摘要(三)

Table 5.2.3 Summary of Meteorological Observations in Hong Kong (Part3),2022

| 月份<br>Month                                   | 酷熱天氣日數<br>Number of Very Hot days | 熱夜日數<br>Number of Hot nights | 寒冷天氣日數<br>Number of Cold days | 雷暴日數<br>Number of days with Thunderstorm |
|---|-----------------------------------|------------------------------|-------------------------------|--|
| 一月<br>January                                 | -                                 | -                            | -                             | -  |
| 二月<br>February                                | -                                 | -                            | 8                             | -  |
| 三月<br>March                                   | -                                 | -                            | -                             | 1  |
| 四月<br>April                                   | -                                 | -                            | -                             | -  |
| 五月<br>May                                     | -                                 | -                            | -                             | 3  |
| 六月<br>June                                    | 6                                 | 10                           | -                             | 8  |
| 七月<br>July                                    | 21                                | 25                           | -                             | 2  |
| 八月<br>August                                  | 10                                | 8                            | -                             | 8  |
| 九月<br>September                               | 13                                | 9                            | -                             | 3  |
| 十月<br>October                                 | 2                                 | -                            | -                             | -  |
| 十一月<br>November                               | -                                 | -                            | -                             | -  |
| 十二月<br>December                               | -                                 | -                            | 5                             | -  |
| 平均/總值<br>Mean/Total                           | 52                                | 52                           | 13                            | 25                                       |
| 氣候平均值<br>Climatological normal<br>(1991-2020) | 17.5                              | 23.6                         | 15.2                          | 42.3                                     |
| 氣候平均值<br>Climatological normal<br>(1981-2010) | 10.2                              | 17.8                         | 17.1                          | 38.6                                     |
| 觀測站<br>Station                                | 天文台<br>Hong Kong Observatory      |                              |                               |  |

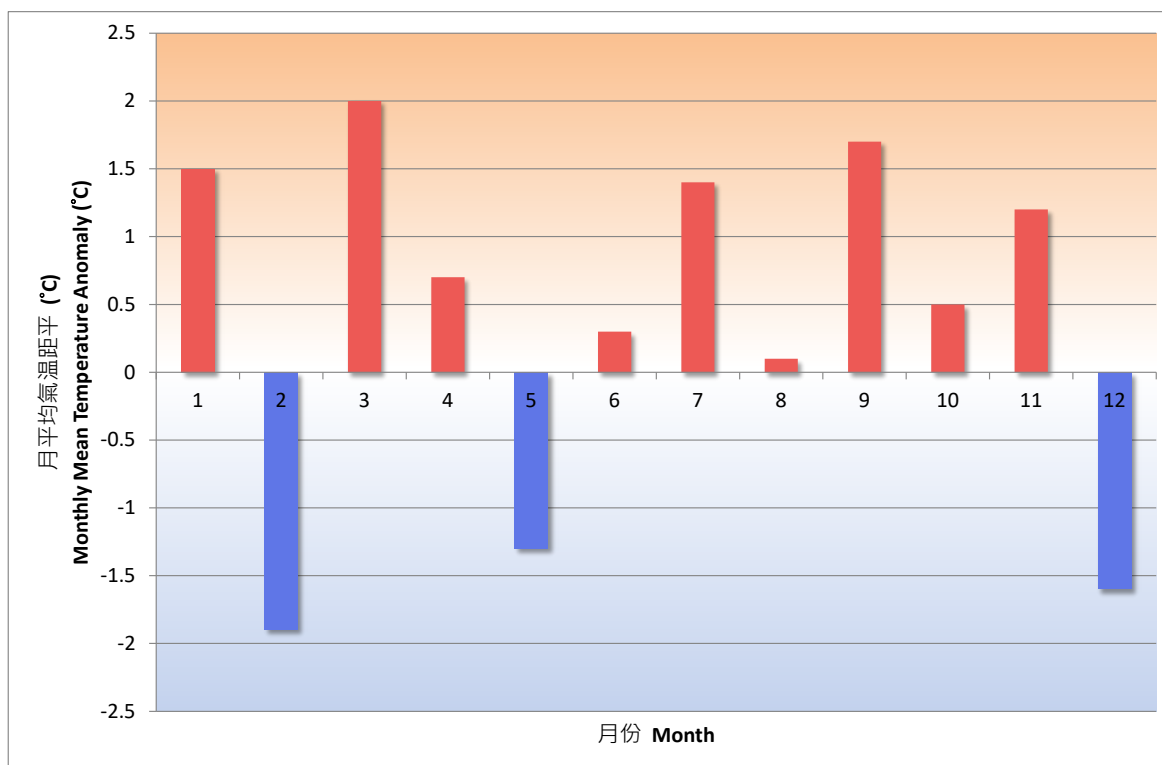


圖 5.1 2022 年香港月平均氣溫距平(與 1991-2020 正常值相比)

Fig. 5.1 Monthly mean temperature anomalies (against the 1991-2020 normal) in Hong Kong in 2022

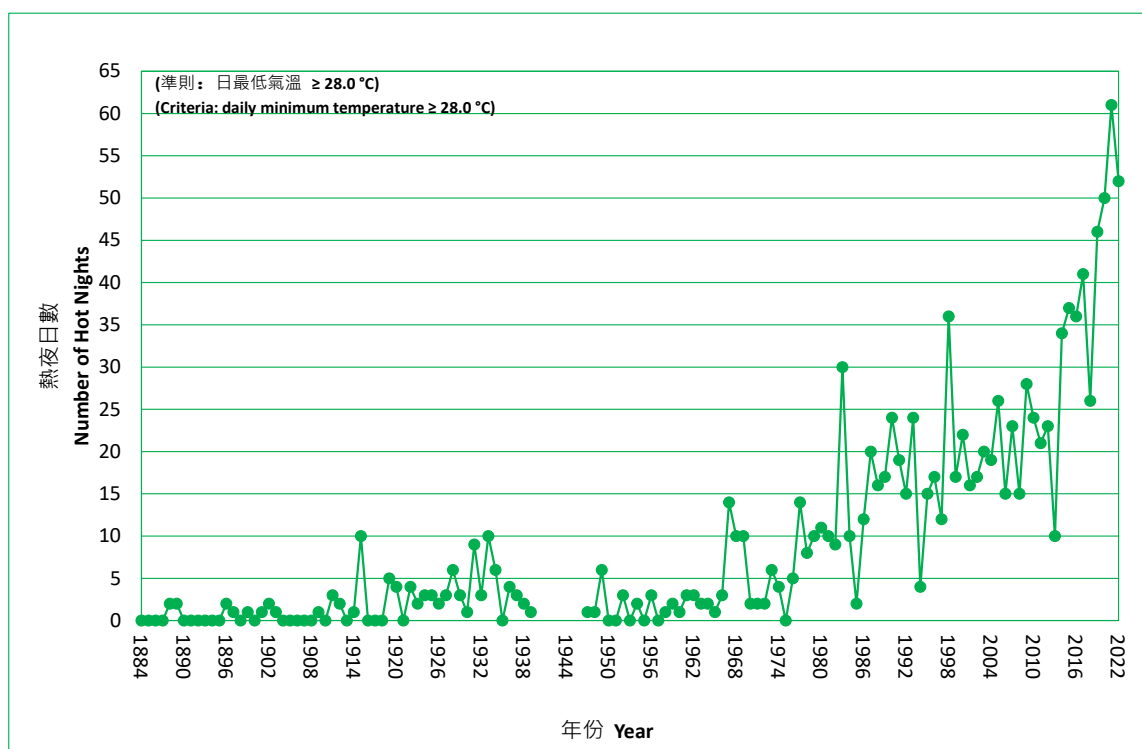


圖 5.2 香港全年熱夜數目的長期時間序列(1884-2022)

Fig. 5.2 Long-term time series of number of Hot Nights in Hong Kong 1884-2022

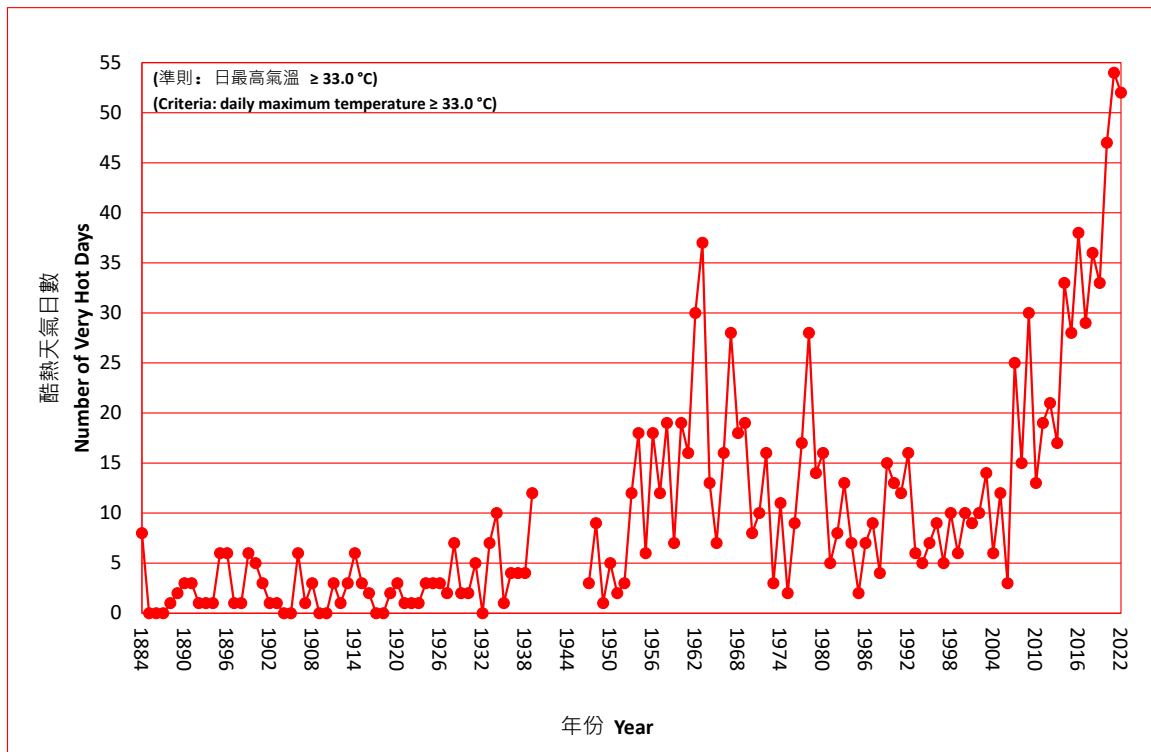


圖 5.3 香港全年酷熱天氣日數的長期時間序列(1884-2022)

Fig. 5.3 Long-term time series of number of Very Hot Days in Hong Kong 1884-2022

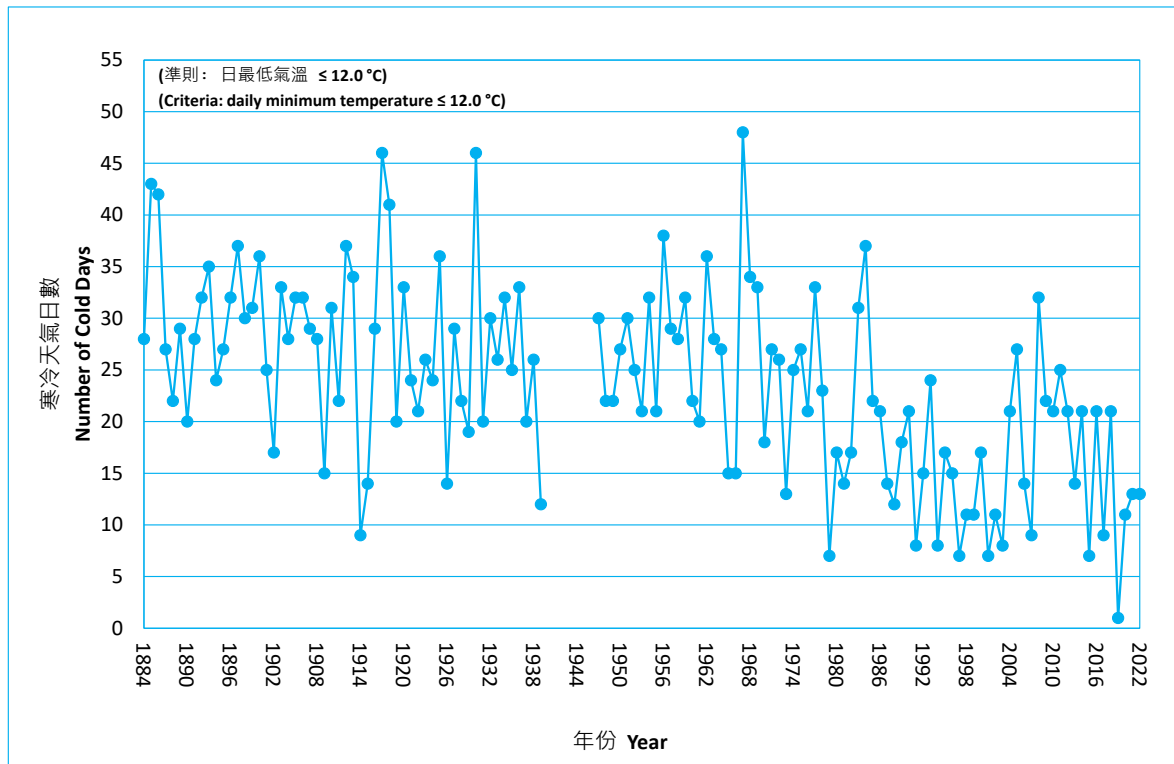


圖 5.4 香港全年寒冷天氣日數的長期時間序列(1884-2022)

Fig. 5.4 Long-term time series of number of Cold Days in Hong Kong 1884-2022

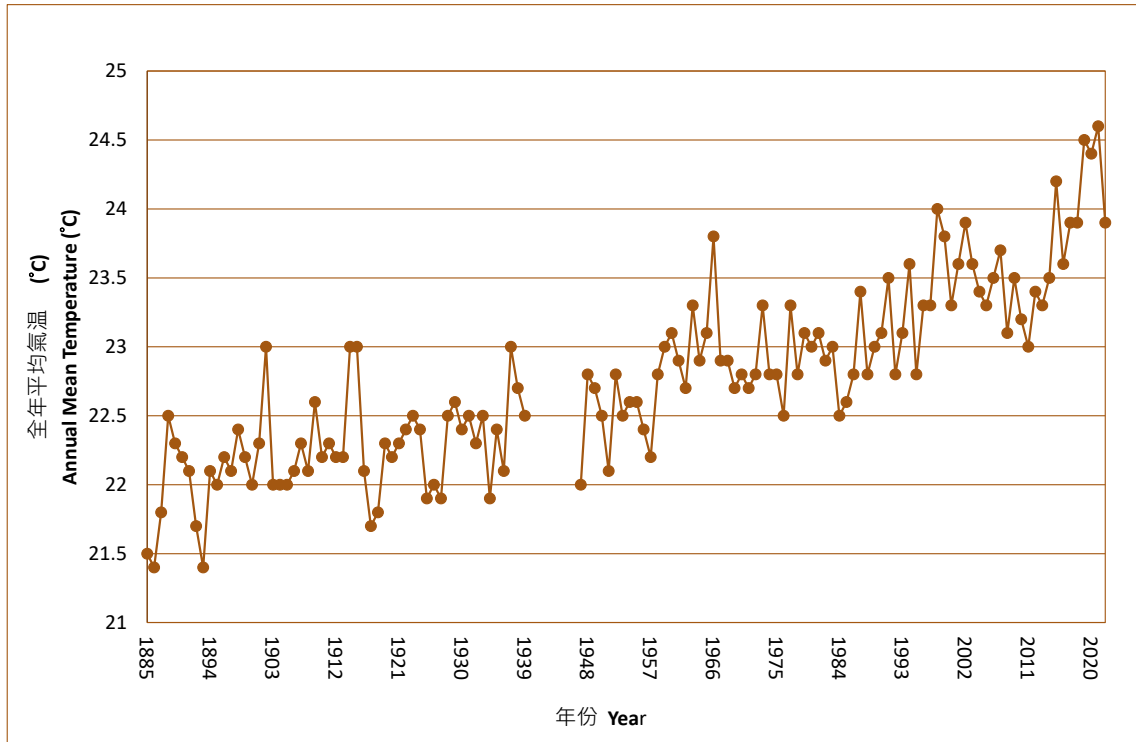


圖 5.5 香港全年平均氣溫的長期時間序列(1885-2022)

Fig. 5.5 Long-term time series of annual mean temperature in Hong Kong 1885-2022

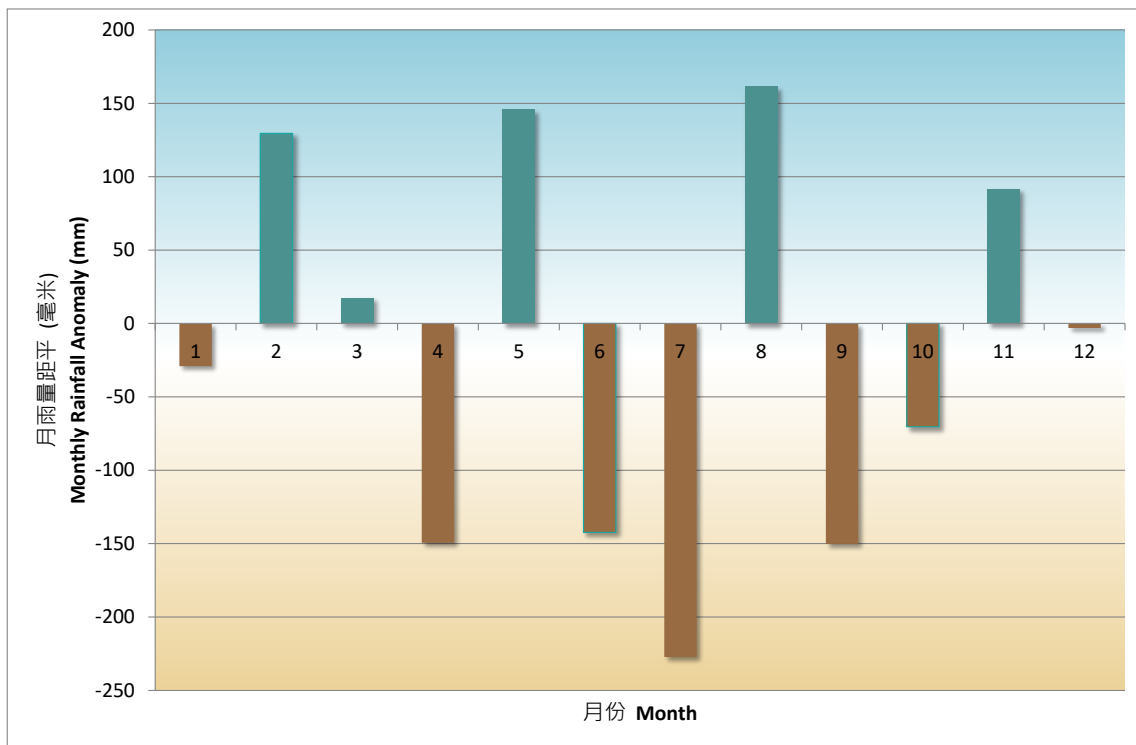


圖 5.6 2022 年香港月雨量距平(與 1991-2020 正常值相比)

Fig. 5.6 Monthly rainfall anomalies (against the 1991-2020 normal) in Hong Kong in 2022

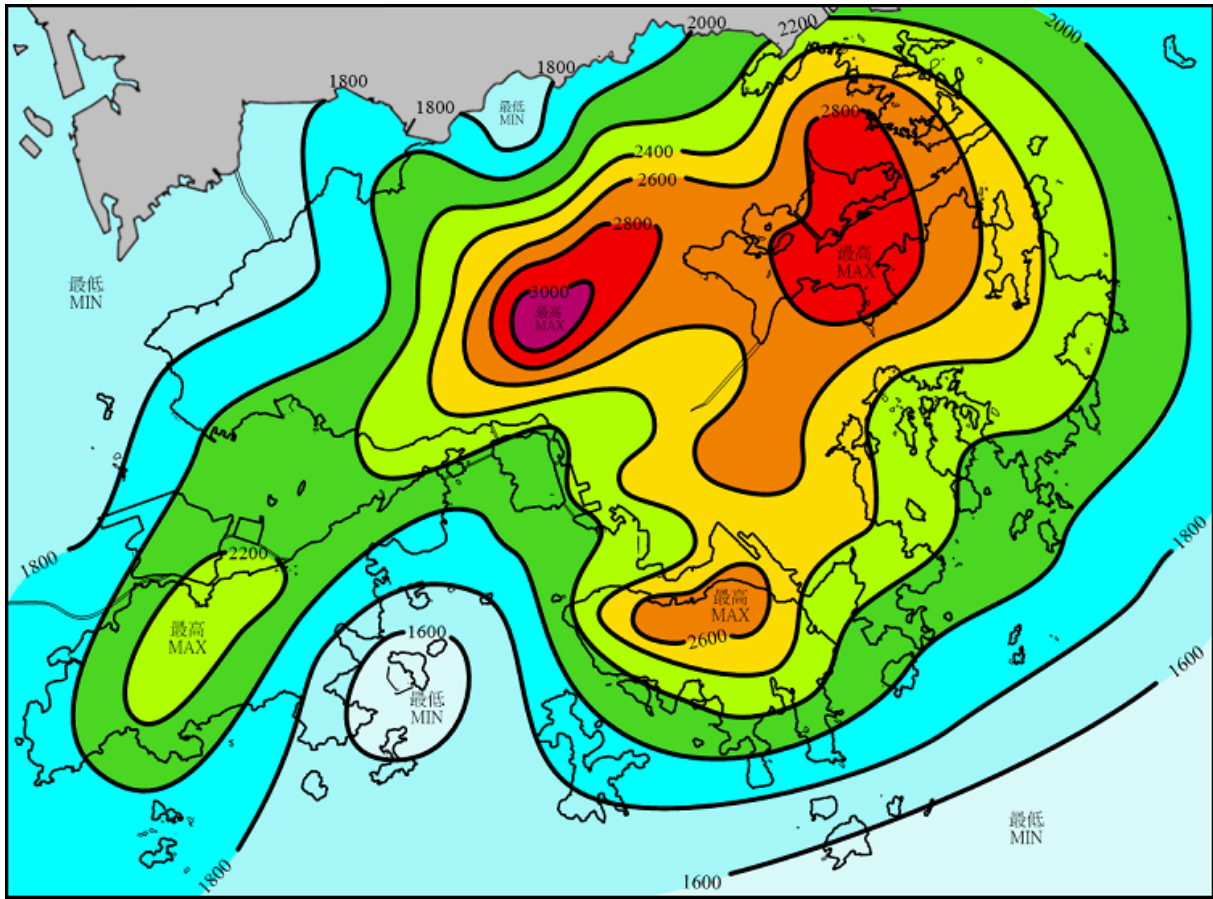


圖 5.7 2022 年香港年雨量分佈(毫米)

Fig. 5.7 Annual rainfall distribution in Hong Kong in 2022 (in mm)