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| 三九 | | : | |

高 篇 市 前 氣 敦 養 中華民國九年季報

Chan-shan Meteorological Observatory

of

Nantung

Kiangsu China

Report for four quarte

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例言

本網係就中華民國九年本臺氣樂觀測之成號面編纂者、凡本臺與徐家鹽氣象臺騰現象之差異、南通農業湖汐之歡現以及各省之降水景等項亦附數之、

觀測之時刻及力法等係參酌我國中央觀象臺觀測總所徐家匯氣象臺及 日本中央觀象臺等處之辦法併度本臺之所能行者而定,其要點如下、

親湖時用我國標準除即東經一百二十度之地方平除但日照時數则用其 太陽時 - 觀測訂每日八次其時刻如下,

0時(即子正) 12時(即午正)

3時(上午) 15時(即下午三時)

6時(上午) 18時(即下午六時)

9時(上午) 21時(即下午九時)

倒在 0 時及 3 時之 兩次係從自記機比較求得之、

氣壓除以公厘明配外從施冰點之訂正、不施海面及重力之訂正。但海面及 重力之訂正數揭示奏格之下、

温度用摄氏度不施海面之訂正其在冰點下煮则以負號表示之、

最低塞暑寒於昨日下午六時整置之、本日午刻觀測之、最高進暑寒於上午 六時整置之、下午六時觀測之、觀測此兩塞暑變時獨考察自記塞暑計所留痕 並之形狀而依下列之四則規定之、(一)氣溫在午前有一最低度驗後有一最高 度自最高度以後即一順下降做在本日末期所達之底。反較午前之最低度尤低 時應仍以午前之最低度為準 (二)倘本日有兩個最低度、一在日中最高度之前、 一在日中最高度之後,則計算本日之最低度、仍以在最高度之前者為率 (三)氣 證若自等時以後即漸漸上升。越過最高度而後漸降時,則本日之最低度當求之 不時之前,此所前之時刻,則加以負號。(四)温度若終日上升或終日下降時期是 本日無最高度或最低度也,冊上離作一橫進、

風之速度以每小時行若干公里計凡稱某時刻之速度云書指在該時刻前 後半小時以內所行之公里數而言譬如3h之風速,即自兩點半鐘至三點半鐘之 公里數也、 風之方向用十六方位、

雲量以自容至十之比例計、雲之形式約分十種、雲之來向用十六方位、

THAS IN DECEMBER OF THE SECOND SECON

您行速度以自署至三之比例訊、停止為 0,徐行為 1,疾行為 3,徐疾適中為 2,無雲鼠時則於雲形雲向雲速各行中,作一橫追,

湿度以百分率部、

水氣歷(水蒸氣張力)以公厘計、

不拘兩雲電银之種類熱稱降水、降水量以公厘計、有降水而無量足計 時、街上作宏、不降水時作一擴畫、 圣日降水量選公厘十分之一以上除均群 降水日、但至特別計算鐵穩機時,則不計其量之多寡、凡有鐵穩震之日、皆以其日 數算入、

最大 图迹、一小时 間達五十万至六十一公里之日、蔣强風日、

最大周速一小時間達太十二公里或太十二公里以上之日、郡大風日、

絕對最低氣溫達冰點或在冰點以下之日、(以自 0 時至24時為限)稱凍日、 各種現熟機在萬國普通符號記載但晷有增益之處、

辭數如不十分正確瞭則加疑問符號(?)於其右、觀測有缺時期作三點為 說、

> 南通军山氣泉臺 總 理 張 賽 主 任 劉渭清

INTRODUCTION

This report contains the meteorological observations made in our observatory, during the whole year 1920. The difference of the various phenomena at Chenshan and Sicawei observatories, the conditions of agriculture and tide of Nantung and the amount of precipitation of each districts etc. are taken into this report.

All observations and computations are referred to the observatories of Peking, Sicawei and Japan and moreover according to the conditions of our observatory. The important points are as follows.

Hours of Observation. — The Chinese Standard Time (mean time of the meridian 120°E.) is adopted in our observatory, but for Sunshine duration, we use apparent solar time. Daily observations are 8 times, at the following hours.

```
0h (= midnight) 12h (= noon)

3h (= 3 a.m.) 15h (= 3 p.m.)

6h (= 6 a.m.) 18h (= 6 p.m.)

9h (= 9 a.m.) 2Ih (= 9 p.m.)
```

But the readings of 0" and 3" are obtained from the self-recording instruments.

Pressure. — The barometric readings in millimetres are reduced only to freezing point, unless specially mentioned; the corrections to sea level and standard gravity are given at the bottom of the respective pages.

Temperature.—The degrees are given in Centigrade, and not reduced to sea level; those below freezing point are shown in minus signs.

The Extreme Thermometers.—The Minimum thermometer is prepared at 6 p. m. the day before and observed at noon on date. The Maximum thermometer is prepared at 6 a. m. and observed at 6 p. m. . When we observe the two thermometers we take into account the form of the trace of the thermograph, according to the following four rules.

1) The air temperature has a Minimum in the forenoon and then a Maximum, but afterwards the temperature is gradually falling, so that the temperature at the end of the day is lower than the forenoon Minimum, as Minimum

INTRODUCTION

temperature we still use that of the forenoon.

- 2) If the air temperature has two Minimum in one day, one before and one after the midday Maximum, we still use the Minimum which preceded the Maximum.
- 3) If the air temperature gradually rises after 0° and gradually falls after the Maximum, the Minimum temperature we use is that obtained before 0°, this hour is shown with a minus sign.
- 4) If the air temperature rises or falls a whole day, there is no Minimum or Maximum, we only record a dash (--) in the register.

Wind.—The Velocity is expressed in kilometres per hour. The velocity at any hour is that during two half-hours, that which is before and that which is after the named hour; for instance, the velocity of wind at 3ⁿ is the velocity from 2½ to 3½. The Direction is observed according to the sixteen cardinal points.

Clouds.—The Amount is estimated by the scale 0—10. The Cloud-form is only recorded according to the ten kinds. The Direction where coming is observed according to the sixteen cardinal points. The Velocity is estimated by the scale 0—3:—

- O. Calm or stop.
- 1. Slow.
- 2. Moderate.
- 3. Fast.

Velocity.

When the sky is cloudless, we record the dash (--) in the columns of forms, direction and velocity.

Relative Humidity. - It is given in percentages.

Tension of Aqueous Vapour. - It is given in millimetres.

Precipitation. — The Rain, Snow, Hail or Graupel (Soft Hail) are called Precipitation. The Amount is given in millimetres. When the precipitation is very small and without amount, we only record a zero (0) in the register. When there is no precipitation, we record a dash (—) in the register. The Number of days is counted only when the amount is 0.1 millimetre or more in a day; but for days with either Snow,

INTRODUCTION

Hail or Graupel the amount is not taken into consideration.

Days with Gales. — As such are counted the days when the maximum velocity reaches or exceeds 62 kilometres per hour.

Days with Moderate Gales.—As such are counted the days when the maximum velocity is from 50 to 61 kilometres per hour.

Frosty days. — Any day in which (from 0° to 24°) the absolutely lowest air temperature has reached or fallen under freezing point, is called a frosty day.

The occurrence of phenomena is usually recorded according to the international symbols, to which several others are added.

Interrogation and Ellipsis. — If a reading is not completely right, we record a note of interrogation (?) at the right of this reading. If the observation is wanting, we only record the ellipsis (...) in the register.

Chang Chien

Director of Chenshan Meteorological Observatory, Nantung.

W. C. Lew

Principal observer.

| m,=The inte p. = The inte M,G. = Mode | | 虚深,表进 | 低深 | 部等 | 松島 | *** | 田村、湖路 | 米路、高彩 | 部 | 湖 | 冰学,缩冰 | 報告語 | · · | 49 | 到 | |
|--|---------------|-----------------|----------------------------|----------------|----------------|---------|--------------------------------------|-------------|-------------|----------------|--------------|---------------------|---------------|---------------|------------|--------------|
| rval rate | | 8 | 111 | 111 | IIJ | 111 | S | < | 1 | Þ | 1 | D | • | × | | |
| m.= The interval between 0 ^k and 0 ^k 字正别元之朋 p. = The interval between 12 ^k and 18 ^k 华正西正之团 M.G. = Moderate gale or Eligh wind 强度 | 用於紀要1 | Dust lauxo | Ground fog : | ₩ot fog . , | Mist | Rog | Grazel frost (Verglas) M. B. W. W. | Silver thaw | Hoar frost | Dew | Ica crystals | Graupel (Soft Hail) | Hall | Show | Rain | 英 强 岩 |
| ************************************* | 中之界語 | 北京 | 他双 | 想上學 | 、吹驾(大周守) | 大風 | M.W.B.W | 和歌歌歌 | 网络(無雷) | 商光 | 質 | 月光琛(月排) | 月份 | 日光冠(日外) | 900 | 当 |
| - A | | M | 0 | M | + | Ke | 54 | 4 | A | 6 | > | Ψ | 0 | e | 9 | 黨 |
| a. — The interval between 6 th and 12 th | SNOTEVIASTEET | Zodistenl light | Earthquake | Snow on ground | Snowdrift | Gala | Thunderstorm | Thursder | Lightning . | Aurom | Rainbow | Laurer curonn | Launr balo | Solar corotta | Solar bulo | MOLLYMESOTTE |
| | USED IN L | 乳明狀析型 | 一般就近(聚位) | 學指導 | 學科學 | 海65 | 和如您. | の形式 | 60.00 | 粉組器 | 多图览 | 器路路 | 多数多 | 卷用签 | 多数 | OF SYMBOLS. |
| 12h | REMARKS | M-Ch | E-No | FY-OI | Fr-St | 75 | Cu-Nb | Ci | Nh | St-Cu | 18-Y | A-Cn | Ci-Cu | CI-St | S | 35 |
| 如正午正之問 凶正子正之問 也未經度 | KS. | Mammato-Cumulus | 教育(海島) Fr-Nb Fracto-Nimbus | Fracto-Camulus | Fracto-Stratus | Stratus | Cu-Nb Camulo-Nimbus | Cumulus | Nimbus | Strato-Cumulus | Alto-Stratus | Alto-Camulus | Cirro-Cumulus | Cirro-Stratus | Cirrus | |

本臺 在 地 球 上 之 位 置 Geographic position of our observatory.

本臺居英國格林威池東經一百二十度五十五分三十秒以時計之即東 八點三分四十二秒北緯三十一度五十六分四十秒氣壓表(水銀槽)高 於中等海面一百十公尺四

Longitude: 120°55'30"(8" 3" 42") E from Greenwich.

Latitude : 31°56'40" N.

Altitude: 110.4 over Mean Sea Level (cistern of our harometer).

注意 本臺民國六七兩年報告中所記之緯度係本臺開測之始用經 緯儀測太陽之高弧而定經度則根據民國五年份中國海關所測之海 圖推算而得旋於民國八年五月本臺用經緯儀(能看二十秒)在本臺 實測恒星數次知本遊在英國格林威池東經一百二十度五十五分三 十秒北緯三十一度五十六分四十秒如上數設欲更求精密俟將來用 較佳之經緯儀(能看五秒)復測再具報告

Note—Among our report,1917 and 1918, the Latitude of our observatory was observed the upper arc of the sun with the transit at the beginning of our observation and the Longitude of our observatory was calculated from the chart of the Yangtsze-Kiang, from Shanghai to Nankin, which was surveied by Chinese custom during the year 1916. In the May of the year 1919, we used the transit (reading to 20 seconds) to observed the Fixed Star in many times, then we known our observatory situated at Longitude 120°55′30″E from Greenwich and at Latitude 31°56′40″ N as shown above. But the accurate values of them we shall observe again with the finer transit (reading to 5 seconds) when we shall record them in our report.

本臺主要儀器高度一覽表 The Altitudes of our Principal Instruments are shown below:—

| | 主 要 儀 像 Principal ins | 高度 Altitudes truments | 高于軍山頂 Hight over the top of Chen-Shan. | Mean Sea | |
|--------------|--------------------------------|--|---|----------|--|
| | 殷 機 (最高部) | Anemometer (Uppermost part) | 21,1170 | 128*1 | |
| | 腳爾墩氣蹬装 (水銀糖) | The Fortin Baremeter (Mercurial tank) | 3.99 | 110.4 | |
| er Shed | 自能塞易計 | Thermograph | 2.83 | 109.3 | |
| rmometer | 自紀毛登温度計 | The Hair Hygrograph | * | , , | |
| the Therm | 蹇 岩 乾 表 | Dry Bulb Thermometer | | | |
| ruments in t | ※ 暑 温 表 | Wet, | 2.3 | » t | |
| ie instrume | 最高密岛表 | Maximum , | , , , , , , , , , , , , , , , , , , , | , , | |
| The | 最低塞暑敦 | Minimum · ,, | ,, | 2.3 | |
| | 自促雨量計 | Self-Recording Rain Gauge (The rim of funnel) | 1.38 | 107.8 | |
| | 用 拉 器 (口 面) | Raingauge (The rim of funnel) | 1 | , , | |

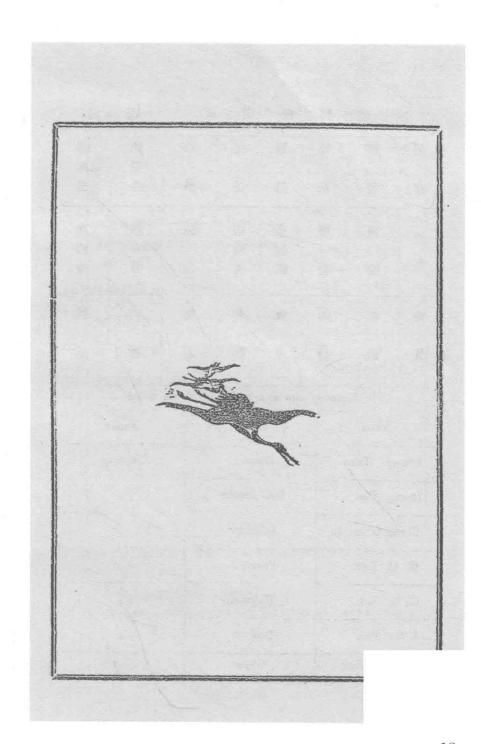
附註 (1) 維密學內各優譽如自記憲展計自記毛獎溫度計等均高于 土城面1977.

(2) 軍山頂高於平原10些

Appendix - (1) The instruments in the Thermometer Shed as Thermograph and The Hair Hygrograph etc. are 1977 over the Surface of The Hillock.

(2) Height of the top of Chen-Shan above the plain: 101th

| * | : 臺 | 現 | 任 | 職 | 員 一 | 臣 | 是 | | |
|------|----------|---------|----------|-----------|-----------|---------|------|--|--|
| 職 | 総 | 協 | 視 | 主主 | l) III | 維 | 縫 | | |
| 務 | 理 | 理 | 黎 | 任 | 員 | 智 生 | 寫 | | |
| 姓 | 張 | 張 | 張 | 劉 | 陳 | 趙 | 蔣 | | |
| 名 | 審 | 營 | 怡祖 | 清清 | 潘 | 月 | 鎌 | | |
| 籍 | 南 | 南 | 南 | 南 | 南 | 南 | 南 | | |
| 貫 | 通 | 通 | 通 | 通 | 通 | 通 | 通 | | |
| | The St | aves of | our obs | servatory | are shown | below:- | | | |
| | Name | | (| Office | | Nativ | re · | | |
| Cha | ng Chien | n t | D | irector | | Nantung | | | |
| Char | ng Cha | | Sub | -directo | | ., | | | |
| Cha | ng Ohien | Ju | In | spector | | | | | |
| ŵ. | C. Lew | | Pr | incipal | | , , , | | | |
| Ch | n Lei | | Н | elpmate | | 3 3 | | | |
| J. 8 | S. Tsao | | S | tudent | | * * | | | |
| G. | L. Chian | g | | Writer | | ,, | | | |



本 年 第 一 季

報告

Report

for

first quarter, 1920.



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