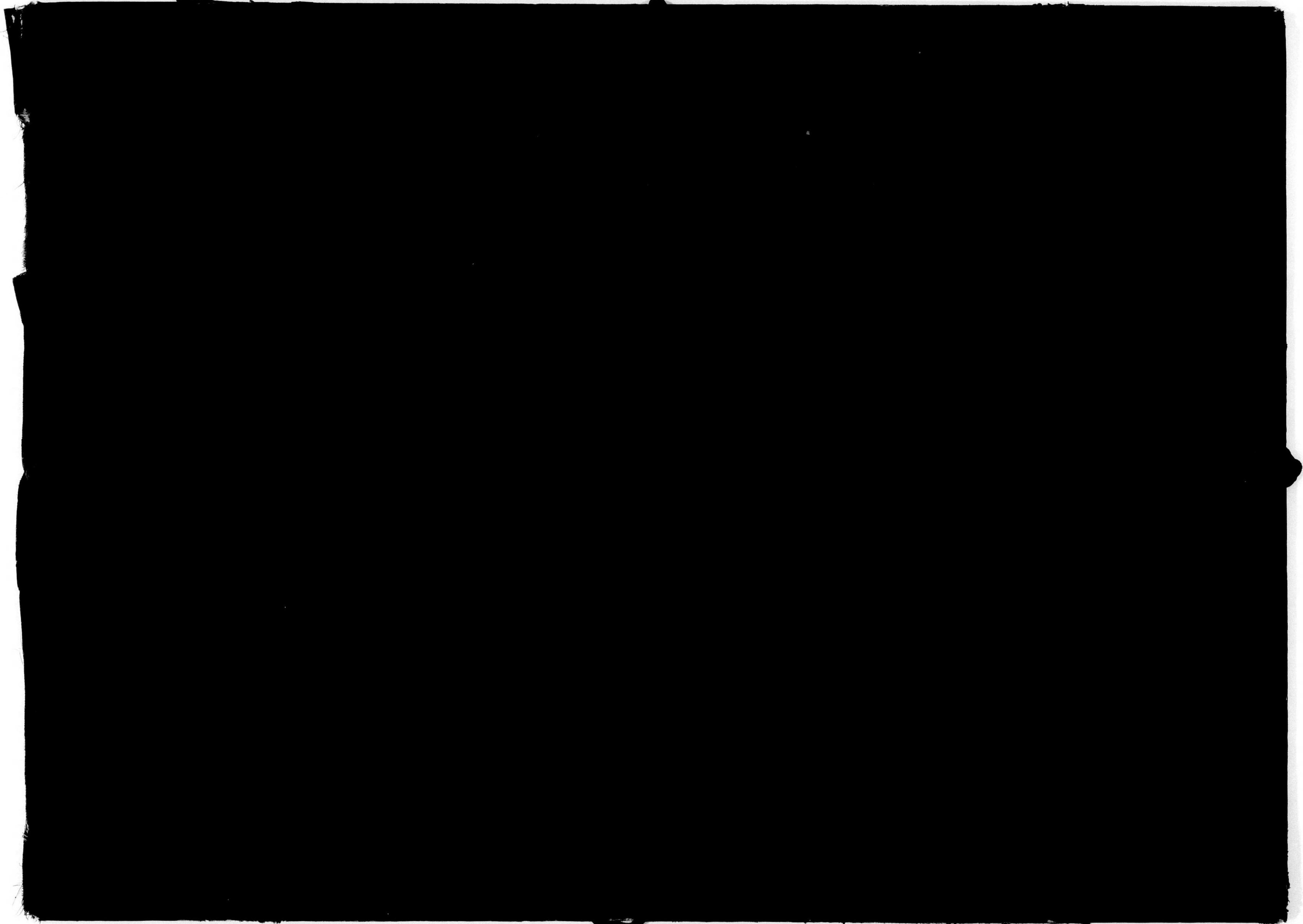


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北太平洋天氣圖

大正十二年三月

神戶

海天氣象臺



DAILY WEATHER CHARTS

OF THE

NORTH PACIFIC OCEAN.

FEBRUARY

1923



THE IMPERIAL MARINE OBSERVATORY,

KOBE, JAPAN.

發行所奇町本



PREFACE.

Our new series of the Daily Weather Charts of the North Pacific Ocean, the first number of which appears herewith may be regarded as a continuation and extension of our Weekly Weather Charts which have been published since November of 1920.

The area covered by the Weekly Chart includes only a portion of the Far East and the neighbouring waters, and is not comprehensive enough to be a sufficient material for the studies of the meteorology of the North Pacific. We have accordingly intended to enlarge our area to include the whole of the North Pacific Ocean.

The observational data are the telegraphic reports from our stations at home and abroad, and the wireless messages and meteorological logs from our merchantile marines at sea, partly completed by the abstracts from

- Meteorological Bulletin of the Philippine Weather Bureau,
- Weather Charts of L'Observatoire de Zikawei,
- Monthly Meteorological Bulletin of the Royal Observatory, Hongkong,
- Bulletin meteorologique de L'Observatoire central de L'Indochine, and
- Weather Maps of the United States Weather Bureau.

Special acknowledgement is made of the cooperation of the chiefs and observers of our stations and of that of the captains and officers of our merchantile marines. Acknowledgement is also made of the kindness in sending us the valuable publications and of the permission of freely extracting the necessary data from them to the following chiefs of the weather services, Prof. Marvin, Chief of the Weather Bureau, Washington; Rev. J. Algue, S. J. Director of the Philippine Weather Bureau, Manila; Rev. L. Proc. S. J. Director of the Zikawei Observatory; Mr. T. F. Claxton, director of the Royal Observatory, Hongkong and M. Le Cadet, Director of the Central Observatory of Indo-china, Haiphong.

The chart represents the situation at noon of the time 135th meridian. The observations at some of the foreign stations are not, strictly speaking, taken at the same hour with us, but the difference in the hour of observation is not large, so that practically all the observations may be regarded as simultaneous ones.

In the manuscript chart the observations of all the stations are entered and the isobars are drawn every two millimetres. But in the printed chart some of the stations are not given and the isobars are given every four millimetres in order to avoid complication.

The present charts have been prepared by Mr. Y. Horiguti in charge of the Division of Maritime Meteorology with assistance of Mr. K. Taguchi and Mr. T. Yano. Mr. J. Oka and Mr. T. Kikkawa have prepared the manuscripts for lithograph.

June, 1923.

T. OKADA,

Director, Imperial Marine Observatory,

KOBE, JAPAN.

緒 言

本圖ハ大正九年十一月以來出版シ來リタル週刊天氣圖ヲ擴張セルモノナリ週刊天氣圖ハ其區域東亞及其近傍ノ海洋面ニ限レルヲ以テ海洋氣象研究ノ資料トシテハ少シク物足ラザル憾ナキニ非ズ依ツテ之ヲ擴張シ北太平洋全部及ビ其沿岸地方ヲ含有セシムルコト、ナレリ。

觀測ノ資料ハ主トシテ本邦地方測候所及觀測所ノ氣象電報並船船ノ海上氣象報告ニシテ缺ケタルトコロハ米國天氣局天氣圖馬尼刺氣象臺報告除家瀝氣象臺天氣圖香港氣象臺報告印度支那氣象臺報告ヨリ採萃シテ之ヲ補フ。

觀測ハ本邦中央標準ノ正午ノモノナレドモ前記海外諸國ノ分ハ必ズシモ本邦ノ分ト同時刻ニアラザルモノアリ然レドモ其差二三時間ニ過ヅルガ故ニ本圖ノ如ク弘區域ノ現象ヲ示スモノトシテハ先ヅ同時ノモノト見做シテ甚ダシキ差違ナカルベシ。

本圖ノ原稿ニハ各所ノ觀測ヲ皆記入シ等壓線ハ二耗毎ニ之ヲ引キタルモ印刷圖ニハ混雜ヲ避クル爲メ省略セル向モ少カラズ又等壓線モ四耗毎ニ表ハセリ。

本圖ハ堀口技師之ヲ作製シ田口技手及矢野技手之ヲ補佐シ又製圖及印刷原稿ハ岡技手及吉川技手之ニ當レリ。

大正十二年六月

海洋氣象臺長岡田武松

大正
12.10.27
寄贈

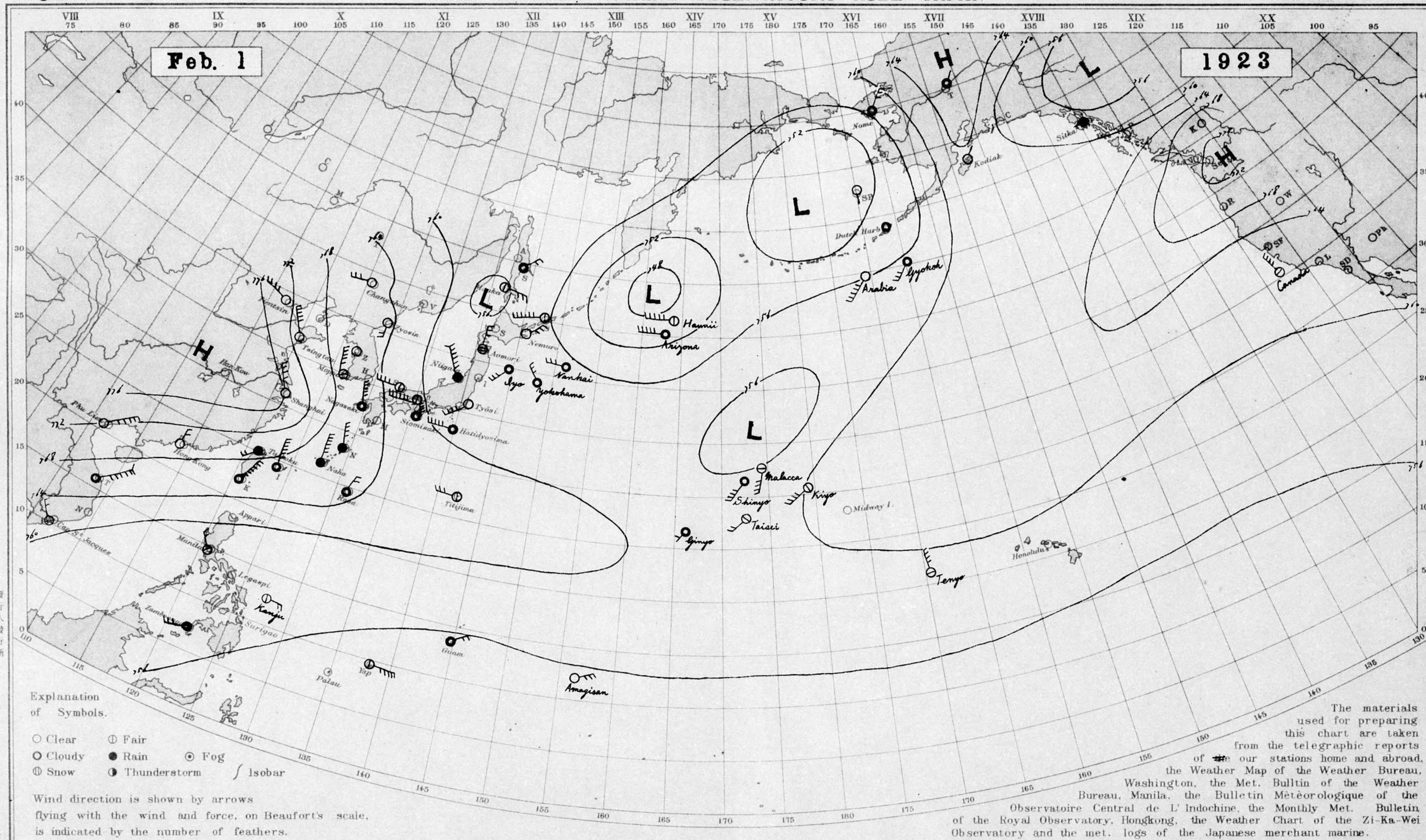
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DAILY WEATHER CHART OF THE NORTH PACIFIC OCEAN

(Noon of the time of 135° E.)

THE IMPERIAL MARINE OBSERVATORY KOBE JAPAN

No 32



Explanation of Symbols.

- Clear
- ⊙ Fair
- ☁ Cloudy
- Rain
- ☁ Fog
- ⊙ Snow
- ⊙ Thunderstorm
- Isobar

Wind direction is shown by arrows flying with the wind and force, on Beaufort's scale, is indicated by the number of feathers.

The materials used for preparing this chart are taken from the telegraphic reports of our stations home and abroad, the Weather Map of the Weather Bureau, Washington, the Met. Bulletin of the Weather Bureau, Manila, the Bulletin Météorologique of the Observatoire Central de L'Indochine, the Monthly Met. Bulletin of the Royal Observatory, Hongkong, the Weather Chart of the Zi-Ka-Wei Observatory and the met. logs of the Japanese merchant marine.

Station	Taihoku	Naha	Nagasaki	Stomisaki	Kobe	Tyosi	Hatidyosima	Titizima	Niigata	Aomori	Nemuro	Maaka	Moppo	Zyosin	Changchun	Tientsin	Tsingtau
Hour of Observation	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E
Atm. Pressure (Red. to m.s.l. and Std. Gr.)	770.4	766.4	766.8	761.2	762.5	756.8	759.3	762.9	757.0	756.4	756.5	755.7	767.8	764.6	767.3	772.4	771.5
Air Temperature (in C)	9.1	12.8	5.5	9.5	6.8	8.8	9.9	19.9	1.8	-3.1	-8.7	-10.8	5.2	-1.2	-8.1	-	-0.7
Direction and Force of Winds (0-12)	SW 2	N 6	NNW 5	NW 4	W 6	SW 4	W 5	W 3	NW 7	N 3	NE 3	ESE 3	NNW 5	S 2	WSW 3	WNW 4	NW 5
Weather	rain	rain	cloudy	cloudy	fair	clear	cloudy	fair	rain	snow	clear	fair	fair	clear	clear	clear	clear
Station	Shanghai	Hankow	Rasa	Palau	Hongkong	Manila	Surigao	Guam	Yap	Phu-Lien	Cap-S-Jacques	Honolulu	Midway I.	Nome	Sitka	Dutch Harbor	Kodiak
Hour of Observation	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	14 ^h	14 ^h	14 ^h	14 ^h	14 ^h	10 ^h	10 ^h	20 ^h	18:30 ^h	20 ^h , 135 W	20 ^h , 135 W	20 ^h , 135 W	20 ^h , 135 W
Atm. Pressure (Red. to m.s.l. and Std. Gr.)	776.0	-	764.2	-	769.1	759.2	-	757.3	757.5	773.8	763.0	-	-	756.4	757.9	753.9	763.5
Air Temperature (in C)	2.6	-	21.5	-	16.	28.	-	-	-	14.	24.	-	-	-7.	4.	0.	-1.
Direction and Force of Winds (0-12)	NW 4	-	NNE 2	-	N 2	NW 2	-	NE 2	E 5	NE 5	NW 2	-	-	NE 3	W	calm	NE
Weather	clear	-	cloudy	-	clear	fair	-	cloudy	fair	clear	fair	-	-	cloudy	rain	cloudy	clear

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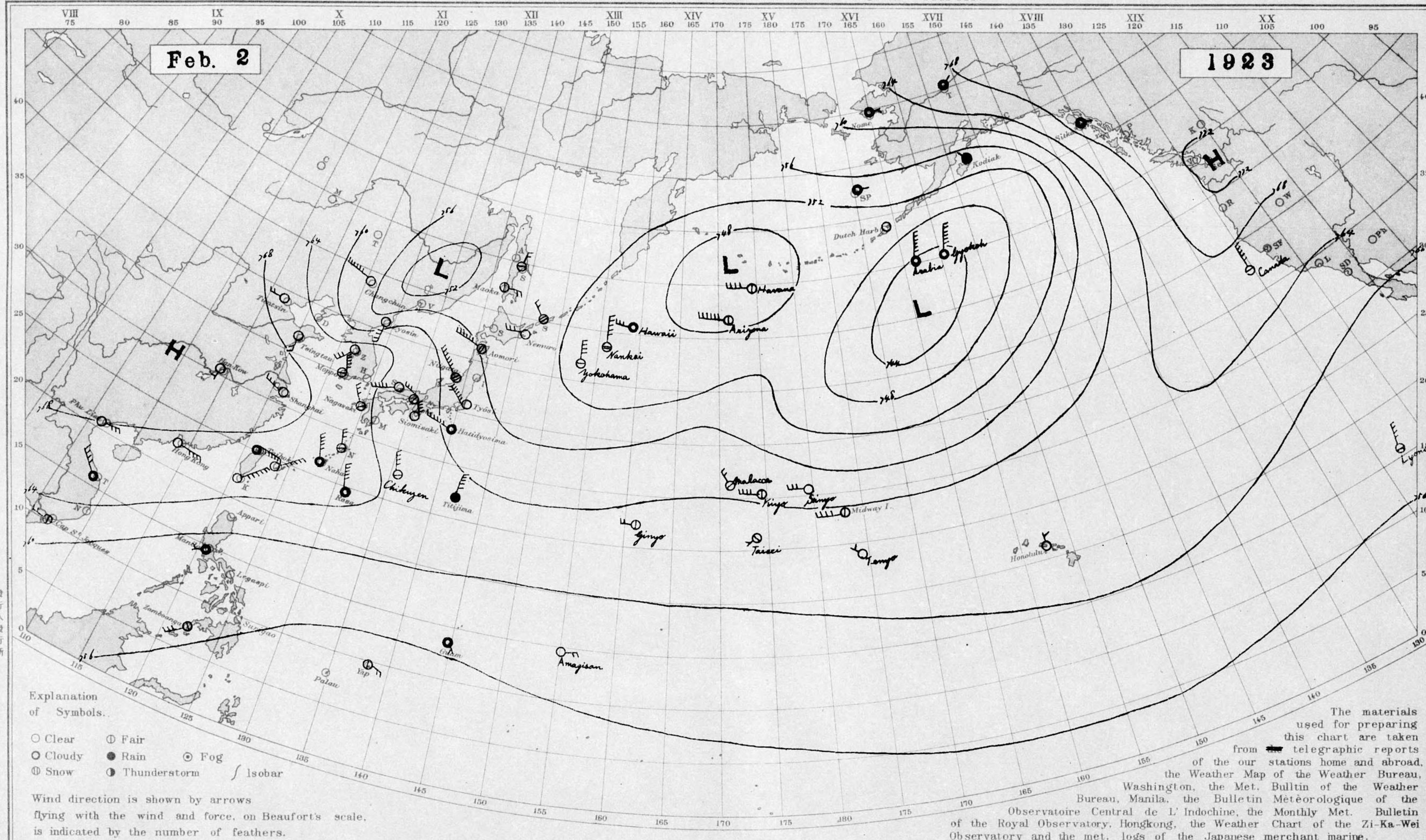
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DAILY WEATHER CHART OF THE NORTH PACIFIC OCEAN

(Noon of the time of 135° E.)

THE IMPERIAL MARINE OBSERVATORY KOBE JAPAN

No 33



Explanation of Symbols.

- Clear
- ⊙ Fair
- ☁ Cloudy
- Rain
- ☉ Fog
- ⊖ Snow
- ⚡ Thunderstorm
- Isobar

Wind direction is shown by arrows flying with the wind and force, on Beaufort's scale, is indicated by the number of feathers.

The materials used for preparing this chart are taken from telegraphic reports of our stations home and abroad, the Weather Map of the Weather Bureau, Washington, the Met. Bulletin of the Weather Bureau, Manila, the Bulletin Météorologique of the Observatoire Central de L'Indochine, the Monthly Met. Bulletin of the Royal Observatory, Hongkong, the Weather Chart of the Zi-Ka-Wei Observatory and the met. logs of the Japanese merchant marine.

Station Hour of Observation	Taihoku 12 ^h , 135 E	Naha 12 ^h , 135 E	Nagasaki 12 ^h , 135 E	Siomisaki 12 ^h , 135 E	Kobe 12 ^h , 135 E	Tyosi 12 ^h , 135 E	Hatidyosima 12 ^h , 135 E	Titiyama 12 ^h , 135 E	Niigata 12 ^h , 135 E	Aomori 12 ^h , 135 E	Nemuro 12 ^h , 135 E	Maoka 12 ^h , 135 E	Moppo 12 ^h , 135 E	Zyosin 12 ^h , 135 E	Changchun 12 ^h , 135 E	Tientsin 12 ^h , 135 E	Tsingtau 12 ^h , 135 E
Atm. Pressure (Red. to m.s.l. and Std. Gr.) * not reduced to Std. Gr.	767.4	766.3	765.4	761.5	762.5	758.0	759.3	760.3	759.8	756.0	753.7	753.6	766.4	767.5	757.6	777.2	766.9
Air Temperature (in C)	14.4	13.8	5.8	7.7	5.6	6.1	10.0	14.3	1.5	-3.4	-6.7	-9.2	5.3	3.2	-4.2	-	4.7
Direction and Force of Winds (0-12)	ESE 6	NNW 5	NW 3	NNW 4	WNW 3	NW 8	WNW 6	NNE 5	NW 6	WNW 5	W 3	E 2	NNW 5	S 4	WNW 6	W 2	S 2
Weather	cloudy	cloudy	fair	clear	fair	clear	cloudy	rain	snow	snow	clear	fair	fair	clear	clear	clear	clear
Station Hour of Observation	Shanghai 12 ^h , 135 E	Hankow 12 ^h , 135 E	Rasa 12 ^h , 135 E	Palau 12 ^h , 135 E	Hongkong 14 ^h	Manila 14 ^h	Surigao 14 ^h	Guam 14 ^h	Yap 14 ^h	Phu-Lien 10 ^h	Cap-S-Jacques 10 ^h	Honolulu 20 ^h	Midway I. 18 : 30 ^h	Nome 20 ^h , 135 W	Sitka 20 ^h , 135 W	Dutch Harbor 20 ^h , 135 W	Kodiak 20 ^h , 135 W
Atm. Pressure (Red. to m.s.l. and Std. Gr.) * not reduced to Std. Gr.	771.1	770.7	764.3	-	767.0	* 758.3	-	* 757.9	* 756.8	* 769.8	* 765.2	761.0	761.0	760.5	771.6	749.3	752.3
Air Temperature (in C)	4.9	-	16.3	-	12.	27.	-	-	-	15.	28.	19.	20.	-9.	0.	-1.	3
Direction and Force of Winds (0-12)	WNW 3	S 1	NNW 5	-	E 4	WSW 1	-	SE 1	ESE 2	ENE 3	W 2	N 1	W 4	E 1	E -	calm	NW -
Weather	clear	clear	cloudy	-	clear	cloudy	-	cloudy	fair	clear	fair	clear	fair	cloudy	cloudy	clear	rain

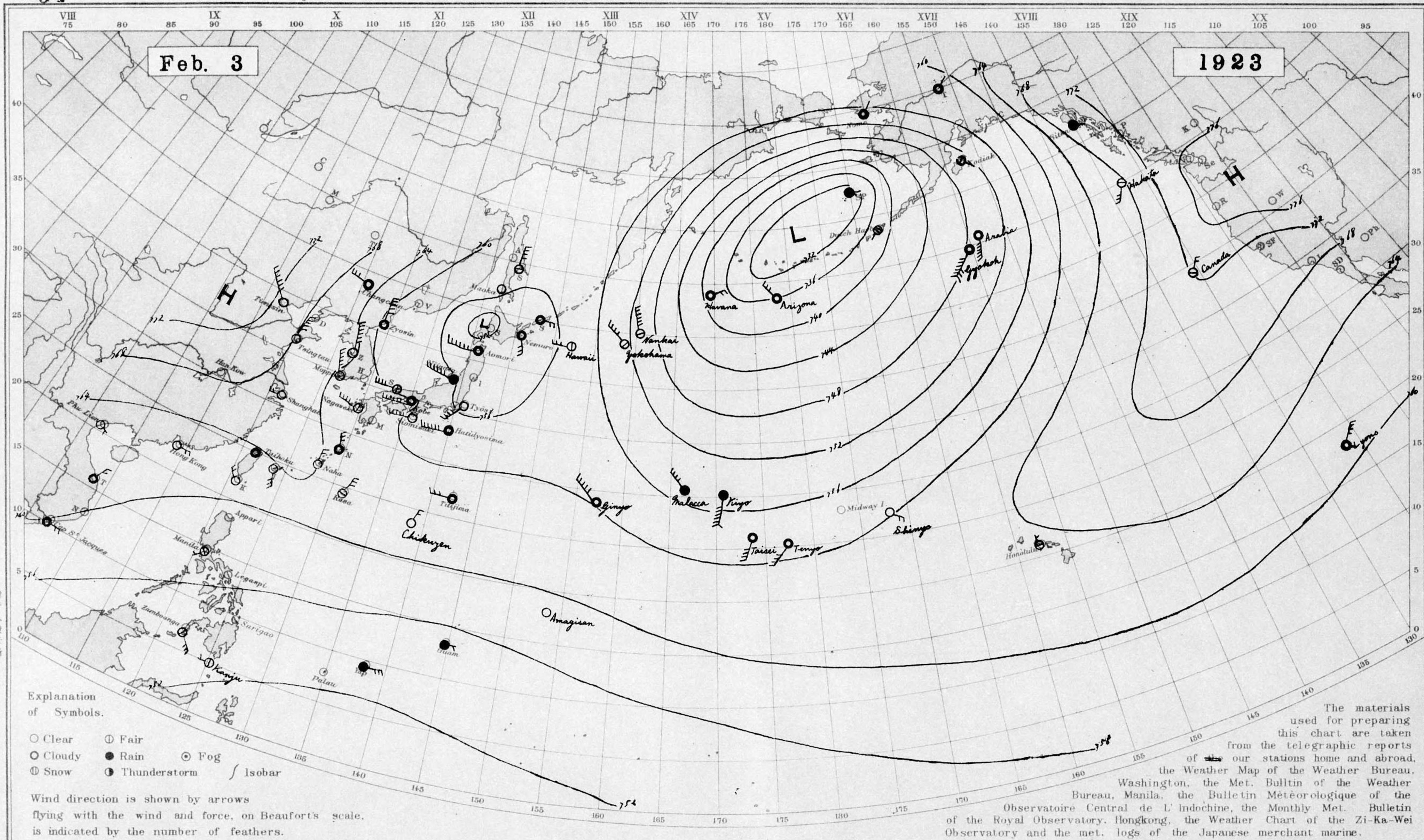
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神戶市中山手通七丁目
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DAILY WEATHER CHART OF THE NORTH PACIFIC OCEAN

(Noon of the time of 135° E.)

THE IMPERIAL MARINE OBSERVATORY KOBE JAPAN

No 34



印發行人發行所
神戶市中山手通七丁目
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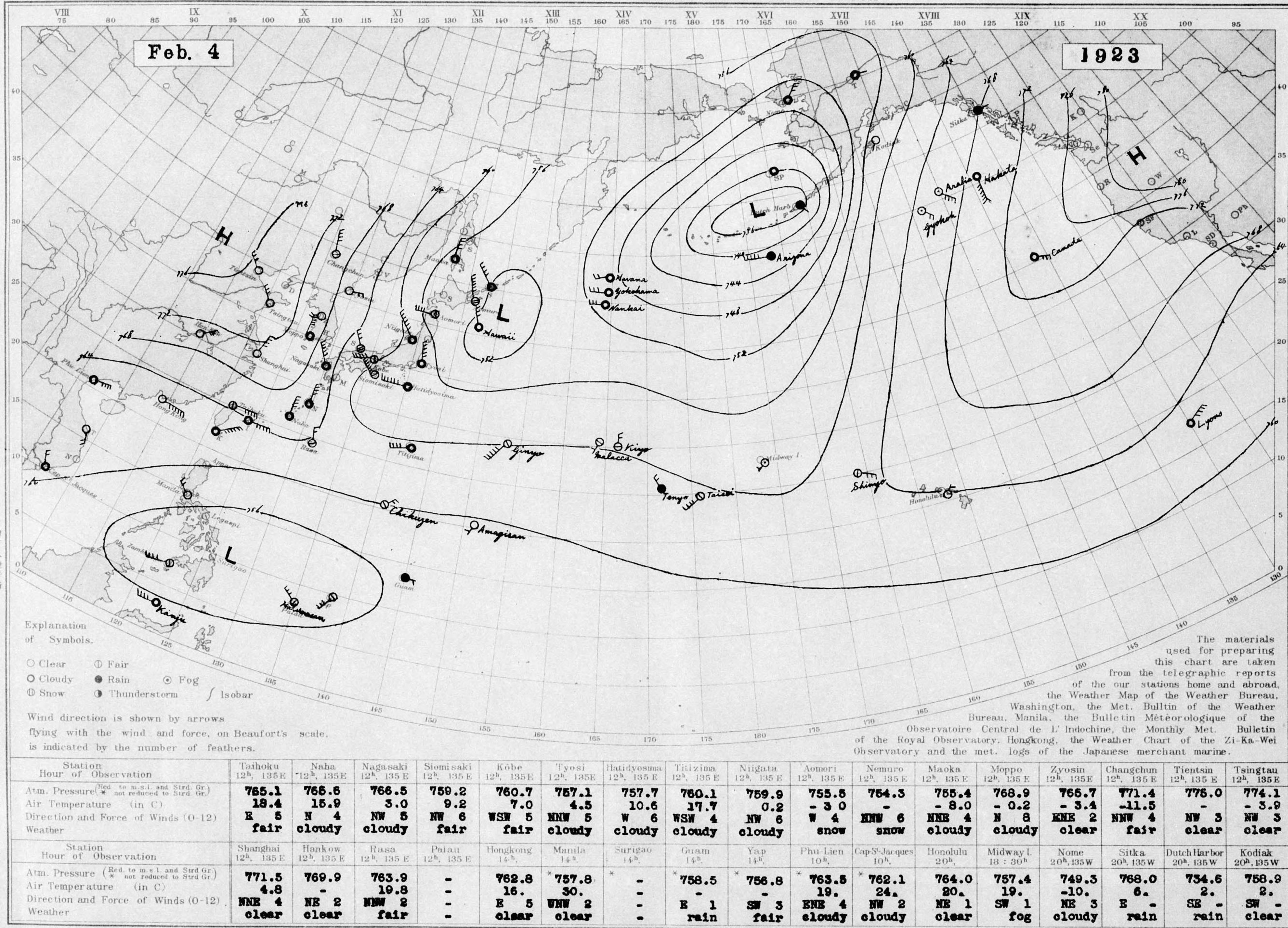
Station	Taihoku	Naha	Nagasaki	Siomisaki	Kobe	Tyosi	Hatidyosima	Trizima	Niigata	Aomori	Nemuro	Maoka	Moppo	Zyosin	Changchun	Tientsin	Tsingtau
Hour of Observation	12 ^h , 135E	12 ^h , 135E	12 ^h , 135E	12 ^h , 135E	12 ^h , 135E	12 ^h , 135E	12 ^h , 135E	12 ^h , 135E	12 ^h , 135E	12 ^h , 135E	12 ^h , 135E	12 ^h , 135E	12 ^h , 135E	12 ^h , 135E	12 ^h , 135E	12 ^h , 135E	12 ^h , 135E
Atm. Pressure (Red. to m.s.l. and Std. Gr.)*	763.9	764.0	762.9	759.3	760.2	755.9	757.8	761.6	756.1	753.4	752.5	756.2	763.3	759.7	765.1	771.5	767.9
Air Temperature (in C)	16.1	17.5	9.0	10.4	7.7	8.4	12.5	17.6	2.3	1.7	-2.1	-8.7	7.8	-0.8	-9.4	-	-0.1
Direction and Force of Winds (0-12)	calm	N 2	WNW 4	W 5	W 6	SW 4	W 6	W 3	WNW 6	W 6	SSE 3	calm	NNW 5	N 5	WNW 3	NW 6	N 5
Weather	cloudy	clear	fair	clear	cloudy	clear	cloudy	cloudy	rain	cloudy	cloudy	clear	fair	cloudy	cloudy	clear	clear
Station	Shanghai	Hankow	Rusa	Palau	Hongkong	Manila	Surigao	Guam	Yap	Phu-Lien	Cap St-Jacques	Honolulu	Midway I.	Nome	Sitka	Dutch Harbor	Kodiak
Hour of Observation	12 ^h , 135E	12 ^h , 135E	12 ^h , 135E	12 ^h , 135E	14 ^h	14 ^h	14 ^h	14 ^h	14 ^h	10 ^h	10 ^h	20 ^h	18:30 ^h	20 ^h , 135W	20 ^h , 135W	20 ^h , 135W	20 ^h , 135W
Atm. Pressure (Red. to m.s.l. and Std. Gr.)*	765.5	-	763.2	-	763.4	758.1	-	757.3	756.6	764.6	761.9	763.5	-	755.4	771.1	737.6	748.8
Air Temperature (in C)	8.2	-	18.8	-	16.	28.	-	-	-	18.	24.	19.	-	-7.	3.	0.	4.
Direction and Force of Winds (0-12)	W 2	-	NNE 3	-	E 2	SW 1	-	ESE 1	ENE 3	ESE 1	E 2	N 1	-	NE	E	SW	SE
Weather	clear	-	fair	-	clear	fair	-	rain	rain	clear	cloudy	fair	-	cloudy	rain	snow	fair

DAILY WEATHER CHART OF THE NORTH PACIFIC OCEAN

(Noon of the time of 135° E.)

THE IMPERIAL MARINE OBSERVATORY KOBE JAPAN

No 35



印行人發行所
神戸市中山手通七丁目

海
象
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Explanation of Symbols.

- Clear ⊕ Fair
- ☁ Cloudy ● Rain ⊙ Fog
- ⊖ Snow ⊕ Thunderstorm
- Isobar

Wind direction is shown by arrows flying with the wind and force, on Beaufort's scale, is indicated by the number of feathers.

The materials used for preparing this chart are taken from the telegraphic reports of our stations home and abroad, the Weather Map of the Weather Bureau, Washington, the Met. Bulletin of the Weather Bureau, Manila, the Bulletin Météorologique of the Observatoire Central de L'Indochine, the Monthly Met. Bulletin of the Royal Observatory, Hongkong, the Weather Chart of the Zi-Ka-Wei Observatory and the met. logs of the Japanese merchant marine.

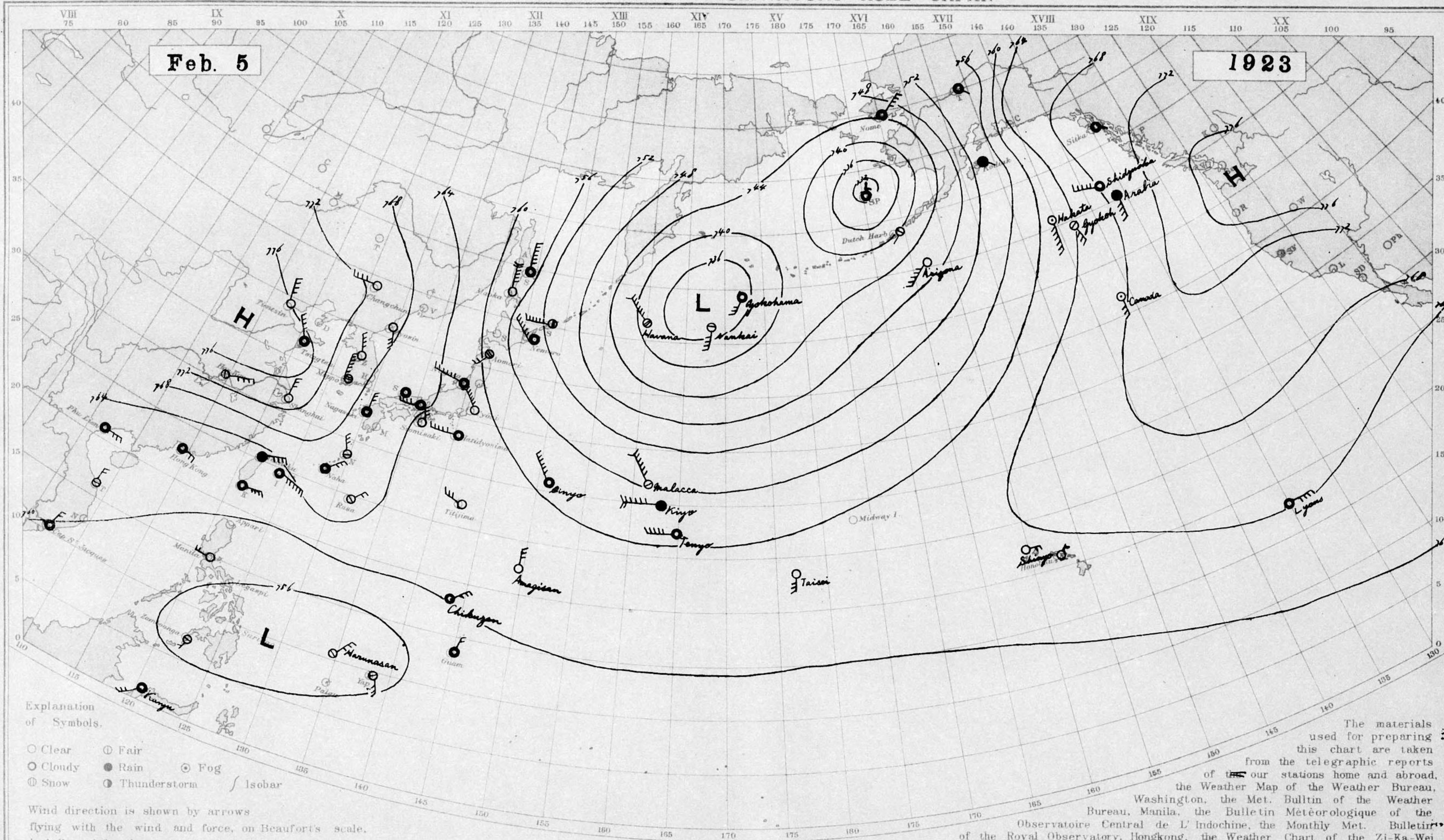
Station	Taihoku	Naha	Nagasaki	Siomi saki	Kobe	Tyosi	Hatidyosima	Tiizima	Niigata	Aomori	Nemuro	Maoka	Moppe	Zyosin	Changchun	Tientsin	Tsingtau
Hour of Observation	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E
Atm. Pressure (Red. to m.s.l. and Strd. Gr.)	765.1	766.6	766.5	759.2	760.7	757.1	757.7	760.1	759.9	755.5	754.3	755.4	768.9	765.7	771.4	775.0	774.1
Air Temperature (in C)	18.4	15.9	3.0	9.2	7.0	4.5	10.6	17.7	0.2	-3.0	-	-8.0	-0.2	-3.4	-11.5	-	-3.9
Direction and Force of Winds (0-12)	E 6	N 4	NW 5	NW 6	WSW 5	WNW 5	W 6	WSW 4	NW 6	W 4	ENE 6	NNE 4	N 8	ENE 2	NNW 4	NW 3	NW 3
Weather	fair	cloudy	cloudy	fair	fair	cloudy	cloudy	cloudy	cloudy	snow	snow	cloudy	cloudy	clear	fair	clear	clear
Station	Shanghai	Hankow	Rasa	Paiou	Hongkong	Manila	Surgao	Guam	Yap	Phu-Lien	Cap-S-Jacques	Honolulu	Midway I.	Nome	Sitka	Dutch Harbor	Kodiak
Hour of Observation	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	14 ^h	14 ^h	14 ^h	14 ^h	14 ^h	10 ^h	10 ^h	20 ^h	18:30 ^h	20 ^h , 135 W	20 ^h , 135 W	20 ^h , 135 W	20 ^h , 135 W
Atm. Pressure (Red. to m.s.l. and Strd. Gr.)	771.5	769.9	763.9	-	762.8	757.8	-	758.5	756.8	763.5	762.1	764.0	757.4	749.3	768.0	734.6	758.9
Air Temperature (in C)	4.8	-	10.8	-	16.	30.	-	-	-	19.	24.	20.	19.	-10.	6.	2.	2.
Direction and Force of Winds (0-12)	NNE 4	NE 2	NNW 2	-	E 5	WNW 2	-	E 1	SW 3	ENE 4	NW 2	NE 1	SW 1	NE 3	E -	SE -	SW -
Weather	clear	clear	fair	-	clear	clear	-	rain	fair	cloudy	cloudy	clear	clear	cloudy	rain	rain	clear

DAILY WEATHER CHART OF THE NORTH PACIFIC OCEAN

(Noon of the time of 135° E.)

THE IMPERIAL MARINE OBSERVATORY KOBE JAPAN

No 36



Explanation of Symbols.

- Clear
- ☉ Fair
- ☁ Cloudy
- ☉ Rain
- ☉ Fog
- ☉ Snow
- ☉ Thunderstorm
- Isobar

Wind direction is shown by arrows flying with the wind and force, on Beaufort's scale. is indicated by the number of feathers.

The materials used for preparing this chart are taken from the telegraphic reports of our stations home and abroad, the Weather Map of the Weather Bureau, Washington, the Met. Bulletin of the Weather Bureau, Manila, the Bulletin Météorologique of the Observatoire Central de L'Indochine, the Monthly Met. Bulletin of the Royal Observatory, Hongkong, the Weather Chart of the Zi-Ka-Wei Observatory and the met. logs of the Japanese merchant marine.

Station	Taihu	Naha	Nagasaki	Siomisaki	Kobe	Tyosi	Hatidyosima	Titizima	Niigata	Aomori	Nemuro	Maoka	Moppo	Zyosin	Changchun	Tientsin	Tsingtau
Hour of Observation	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E
Atm. Pressure (Red to m.s.l. and Strd. Gr.)*	763.9	766.0	767.3	763.4	764.9	760.8	762.4	762.1	763.0	759.5	763.4	756.6	770.0	769.4	771.8	776.0	776.3
Air Temperature (in C)	17.4	17.3	3.3	8.4	5.2	5.5	6.5	19.0	0.3	- 3.0	- 6.3	- 7.6	- 0.7	- 5.1	- 10.9	-	- 4.0
Direction and Force of Winds (0-12)	ENE 5	NE 3	N 3	NNW 3	W 4	NW 7	W 5	WNW 3	WNW 6	SW 2	NW 6	N 8	N 6	SSE 3	W 4	NNW 4	NW 4
Weather	rain	cloudy	cloudy	clear	cloudy	clear	cloudy	clear	cloudy	snow	cloudy	cloudy	snow	clear	clear	clear	cloudy
Station	Shanghai	Hankow	Rasa	Palau	Hongkong	Manila	Surigao	Guam	Yap	Phu-Lien	Cap-S-Jacques	Honolulu	Midway I.	Nome	Sitka	Dutch Harbor	Kodiak
Hour of Observation	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	14 ^h	14 ^h	14 ^h	14 ^h	14 ^h	10 ^h	10 ^h	20 ^h	18:30 ^h	20 ^h , 135 W	20 ^h , 135 W	20 ^h , 135 W	20 ^h , 135 W
Atm. Pressure (Red to m.s.l. and Strd. Gr.)*	773.0	773.9	764.9	-	762.3	758.2	-	758.0	757.2	763.5	761.7	763.5	-	745.2	771.1	740.1	753.4
Air Temperature (in C)	2.6	-	20.8	-	16.	28.	-	-	-	19.	27.	20.	-	- 3.	2.	2.	4.
Direction and Force of Winds (0-12)	N 3	NE 4	NE 2	-	ESE 2	W 2	-	NNE 2	SE 3	E 3	NNE 2	NE 1	-	NE 4	SE -	SW -	SE -
Weather	cloudy	fair	fair	-	cloudy	clear	-	cloudy	fair	cloudy	cloudy	clear	-	cloudy	cloudy	fair	rain

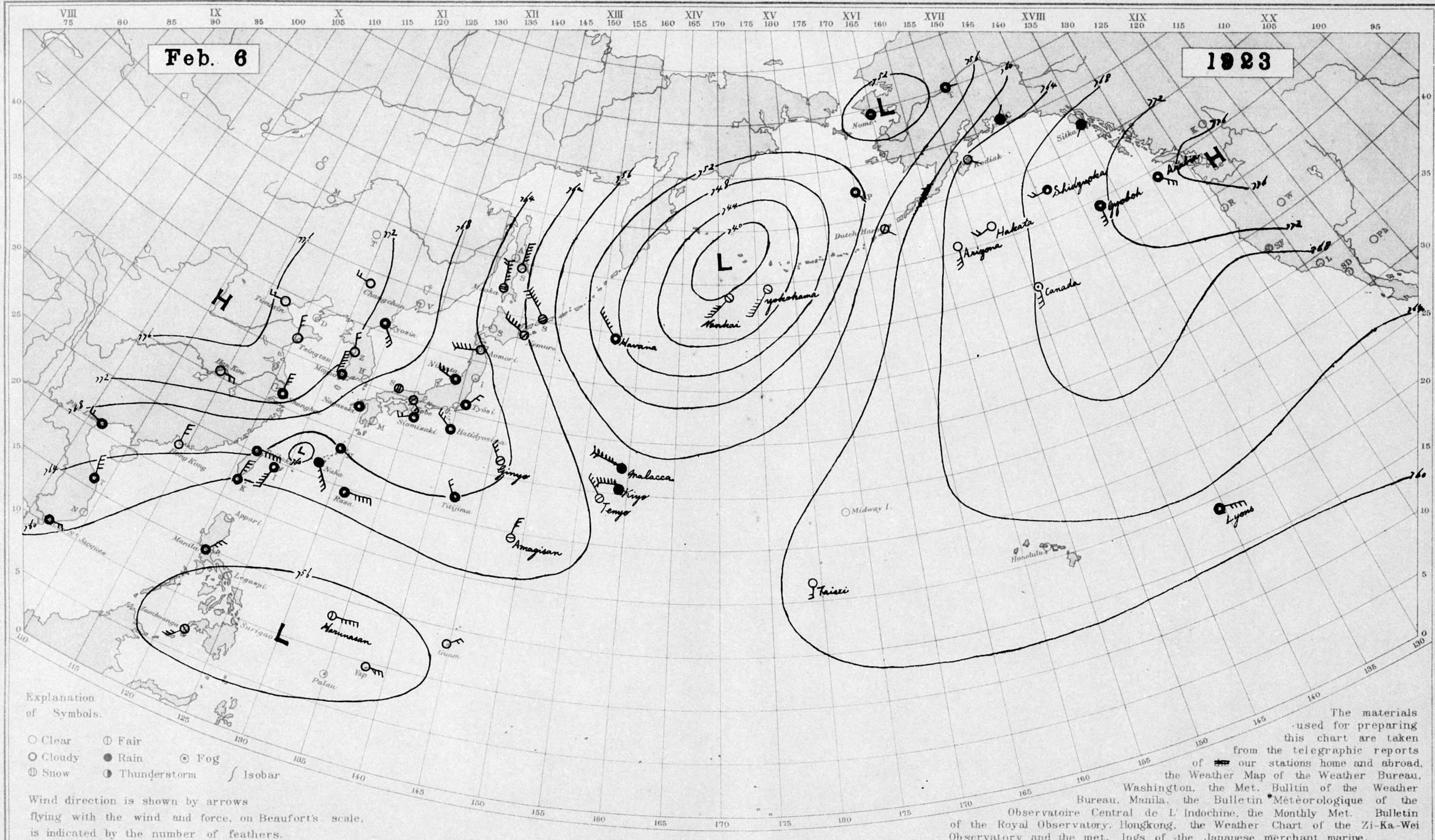
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印 刷 人 販 賣 所
神 戶 市 中 山 手 通 七 丁 目
海 洋 氣 象 臺

DAILY WEATHER CHART OF THE NORTH PACIFIC OCEAN

(Noon of the time of 135° E.)

THE IMPERIAL MARINE OBSERVATORY KOBE JAPAN

No 37



Explanation of Symbols.

- Clear
- ⊙ Fair
- ☁ Cloudy
- Rain
- ☉ Fog
- ⊖ Snow
- ⚡ Thunderstorm
- Isobar

Wind direction is shown by arrows flying with the wind and force, on Beaufort's scale, is indicated by the number of feathers.

The materials used for preparing this chart are taken from the telegraphic reports of our stations home and abroad, the Weather Map of the Weather Bureau, Washington, the Met. Bulletin of the Weather Bureau, Manila, the Bulletin Météorologique of the Observatoire Central de L'Indochine, the Monthly Met. Bulletin of the Royal Observatory, Hongkong, the Weather Chart of the Zi-Ka-Wei Observatory and the met. logs of the Japanese merchant marine.

Station	Taihoku	Naha	Nagasaki	Siomisaki	Kobe	Tyosi	Hatidyosima	Titizima	Niigata	Aomori	Nemuro	Maoka	Moppo	Zyosin	Changchun	Tientsin	Tsingtau
Hour of Observation	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E
Atm. Pressure (Red. to m.s.l. and Strd. Gr. * not reduced to Strd. Gr.)	764.8	761.9	767.6	765.3	766.9	766.0	764.7	764.0	767.7	765.6	760.8	763.0	770.3	771.3	773.0	773.3	774.6
Air Temperature (in C)	15.2	18.9	3.6	8.5	5.8	4.5	10.3	17.1	0.5	-0.2	-3.6	-6.9	-0.5	-4.9	-10.1	-	-3.9
Direction and Force of Winds (0-12)	E 5	SE 4	calm	WSW 2	SE 2	NE 2	WNW 3	NW 2	WNW 3	WSW 5	WNW 5	N 8	N 6	SE 3	WNW 2	W 2	NNW 4
Weather	cloudy	rain	cloudy	cloudy	fair	cloudy	cloudy	cloudy	cloudy	clear	fair	snow	cloudy	cloudy	clear	clear	clear
Station	Shanghai	Hankow	Rasa	Palau	Hongkong	Manila	Surigao	Guam	Yap	Phu-Lien	Cap-S-Jacques	Honolulu	Midway I.	Nome	Sitka	Dutch Harbor	Kodiak
Hour of Observation	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	14 ^h	14 ^h	14 ^h	14 ^h	14 ^h	10 ^h	10 ^h	20 ^h	18 : 30 ^h	20 ^h , 135 W	20 ^h , 135 W	20 ^h , 135 W	20 ^h , 135 W
Atm. Pressure (Red. to m.s.l. and Strd. Gr. * not reduced to Strd. Gr.)	772.7	774.2	763.2	-	764.5	758.1	-	757.8	766.7	769.4	762.3	-	-	749.3	769.1	759.9	765.0
Air Temperature (in C)	1.6	-	20.1	-	18.	26.	-	-	-	12.	26.	-	-	-1.	6.	4.	3.
Direction and Force of Winds (0-12)	N 3	E 2	E 5	-	N 4	NNE 3	-	NE 2	E 3	WNW 2	ENE 2	-	-	calm	SW -	SE -	SE -
Weather	cloudy	clear	cloudy	-	clear	cloudy	-	clear	clear	cloudy	cloudy	-	-	cloudy	rain	fair	clear

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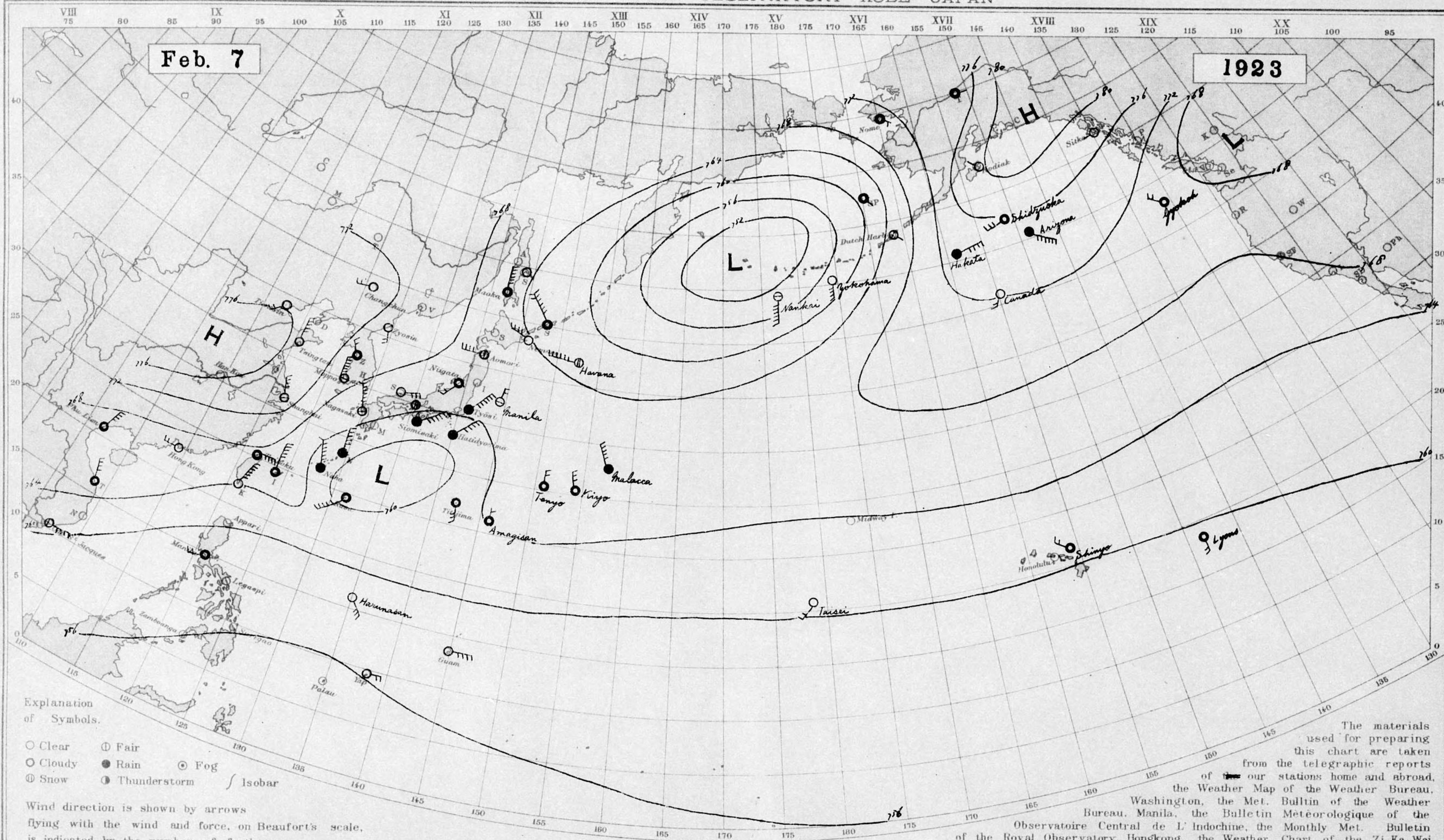
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DAILY WEATHER CHART OF THE NORTH PACIFIC OCEAN

(Noon of the time of 135° E.)

THE IMPERIAL MARINE OBSERVATORY KOBE JAPAN

No 38



Explanation of Symbols.

- Clear
- Cloudy
- ⊙ Snow
- ⊙ Fair
- Rain
- ⊙ Fog
- ⊙ Thunderstorm
- Isobar

Wind direction is shown by arrows flying with the wind and force, on Beaufort's scale, is indicated by the number of feathers.

The materials used for preparing this chart are taken from the telegraphic reports of our stations; home and abroad, the Weather Map of the Weather Bureau, Washington, the Met. Bulletin of the Weather Bureau, Manila, the Bulletin Météorologique of the Observatoire Central de L'Indochine, the Monthly Met. Bulletin of the Royal Observatory, Hongkong, the Weather Chart of the Zi-Ka-Wei Observatory and the met. logs of the Japanese merchant marine.

Station	Taihoku	Naha	Nagasaki	Siomisaki	Kobe	Tyosi	Hatidyosima	Tiizima	Niigata	Aomori	Nemuro	Maoka	Moppo	Zyosin	Changchun	Tientsin	Tsingtau
Hour of Observation	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E
Atm. Pressure (Red to m.s.l. and Std. Gr. * not reduced to Std. Gr.)	767.8	763.3	764.4	762.5	764.6	766.2	761.3	761.7	766.5	767.2	764.9	764.8	768.7	770.6	773.4	775.7	774.0
Air Temperature (in C)	12.2	15.3	7.6	5.5	1.5	3.9	11.0	21.1	2.1	2.8	-3.7	-5.5	1.8	-1.9	-8.0	-	-1.8
Direction and Force of Winds (0-12)	E 4	NNW 7	NNW 7	NE 6	calm	NE 6	NE 5	SSE 3	SW 2	W 3	WNW 4	N 6	N 6	SSE 2	WSW 2	SW 2	N 5
Weather	cloudy	rain	fair	rain	snow	rain	rain	cloudy	cloudy	fair	clear	cloudy	fair	clear	clear	clear	clear
Station	Shanghai	Hankow	Rasa	Palau	Hongkong	Manila	Surigao	Guam	Yap	Phu-Lien	Cap-S-Jacques	Honolulu	Midway I.	Nome	Sitka	Dutch Harbor	Kodiak
Hour of Observation	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	14 ^h	14 ^h	14 ^h	14 ^h	14 ^h	10 ^h	10 ^h	20 ^h	18 : 30 ^h	20 ^h , 135 W	20 ^h , 135 W	20 ^h , 135 W	20 ^h , 135 W
Atm. Pressure (* not reduced to Std. Gr.)	773.0	-	759.4	-	765.4	* 758.5	-	* 758.5	* 757.9	* 768.1	* 762.0	-	-	771.6	777.7	765.5	779.8
Air Temperature (in C)	3.0	-	22.3	-	15.	29.	-	-	-	13.	25.	-	-	0.	1.	3.	0.
Direction and Force of Winds (0-12)	NNW 4	-	SW 5	-	W 2	WSW 2	-	E 4	E 2	NNE 4	E 4	-	-	SE 1	W -	SE -	NW -
Weather	fair	-	cloudy	-	clear	cloudy	-	clear	clear	cloudy	fair	-	-	cloudy	clear	fair	clear

日七月二年二十正大

圖氣天洋平大北

號八十三第

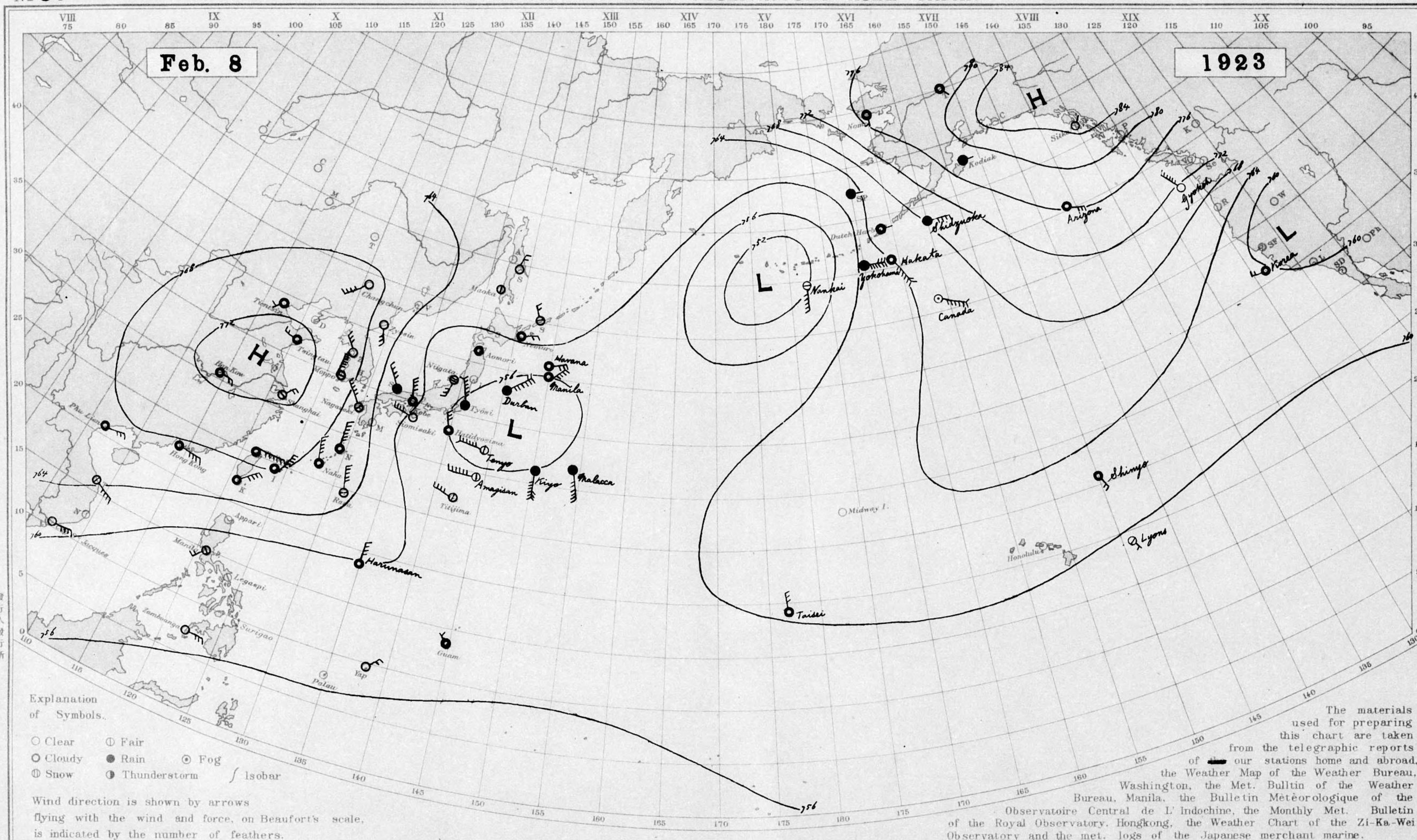
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DAILY WEATHER CHART OF THE NORTH PACIFIC OCEAN

(Noon of the time of 135° E.)

THE IMPERIAL MARINE OBSERVATORY KOBE JAPAN

No 39



Explanation of Symbols.

- Clear
- ☉ Fair
- ☁ Cloudy
- Rain
- ☉ Fog
- ❄ Snow
- ⚡ Thunderstorm
- Isobar

Wind direction is shown by arrows flying with the wind and force, on Beaufort's scale, is indicated by the number of feathers.

The materials used for preparing this chart are taken from the telegraphic reports of our stations home and abroad, the Weather Map of the Weather Bureau, Washington, the Met. Bulletin of the Weather Bureau, Manila, the Bulletin Météorologique of the Observatoire Central de L'Indochine, the Monthly Met. Bulletin of the Royal Observatory, Hongkong, the Weather Chart of the Zi-Ka-Wei Observatory and the met. logs of the Japanese merchant marine.

Station	Taihoku	Naha	Nagasaki	Siomi saki	Kobe	Tyosi	Hatidyosima	Tiizima	Niigata	Aomori	Nemuro	Maoka	Moppo	Zyosin	Changchun	Tientsin	Tsingtau
Hour of Observation	12 ^h , 135E	12 ^h , 137E	12 ^h , 135E	12 ^h , 135E	12 ^h , 135E	12 ^h , 135E	12 ^h , 135E	12 ^h , 135E	12 ^h , 135E	12 ^h , 135E	12 ^h , 135E	12 ^h , 135E	12 ^h , 135E	12 ^h , 135E	12 ^h , 135E	12 ^h , 135E	12 ^h , 135E
Atm. Pressure (Red. to m.s.l. and Strd. Gr.)*	768.7	767.3	765.9	758.5	761.1	755.1	755.9	758.5	759.1	759.0	760.9	760.4	769.2	765.5	768.1	770.1	772.3
Air Temperature (in C)	13.8	13.7	5.9	9.1	5.8	2.9	11.3	19.7	0.2	1.3	-3.9	-0.2	3.0	-1.4	-	-	-1.2
Direction and Force of Winds (0-12)	E 6	NNW 5	NW 5	WNW 4	NNW 4	NNW 7	NNW 3	WNW 4	SSW 3	calm	ENE 2	calm	N 6	SSE 3	SW 4	SW 1	WNW 2
Weather	cloudy	cloudy	fair	clear	cloudy	rain	cloudy	fair	snow	cloudy	cloudy	fair	fair	clear	clear	cloudy	cloudy
Station	Shanghai	Hankow	Rasa	Palau	Hongkong	Manila	Surigao	Guam	Yap	Phu-Lien	Cap-S-Jacques	Honolulu	Midway I.	Nome	Sitka	Dutch Harbor	Kodiak
Hour of Observation	12 ^h , 135E	12 ^h , 135E	12 ^h , 135E	12 ^h , 135E	14 ^h	14 ^h	14 ^h	14 ^h	14 ^h	10 ^h	10 ^h	20 ^h	18:30 ^h	20 ^h , 135W	20 ^h , 135W	20 ^h , 135W	20 ^h , 135W
Atm. Pressure (Red. to m.s.l. and Strd. Gr.)*	773.2	772.6	764.9	-	767.5	760.0	-	758.9	758.3	768.2	762.9	-	-	776.7	784.3	765.8	778.2
Air Temperature (in C)	2.1	-	18.3	-	15.	28.	-	-	-	11.	25.	-	-	-1.	0.	1.	2.
Direction and Force of Winds (0-12)	NE 2	E 2	NNW 5	-	E 4	SW 2	-	NW 1	NE 2	ENE 3	ENE 4	-	-	S 1	NE -	E -	E -
Weather	fair	cloudy	fair	-	cloudy	fair	-	cloudy	clear	cloudy	clear	-	-	cloudy	clear	cloudy	rain

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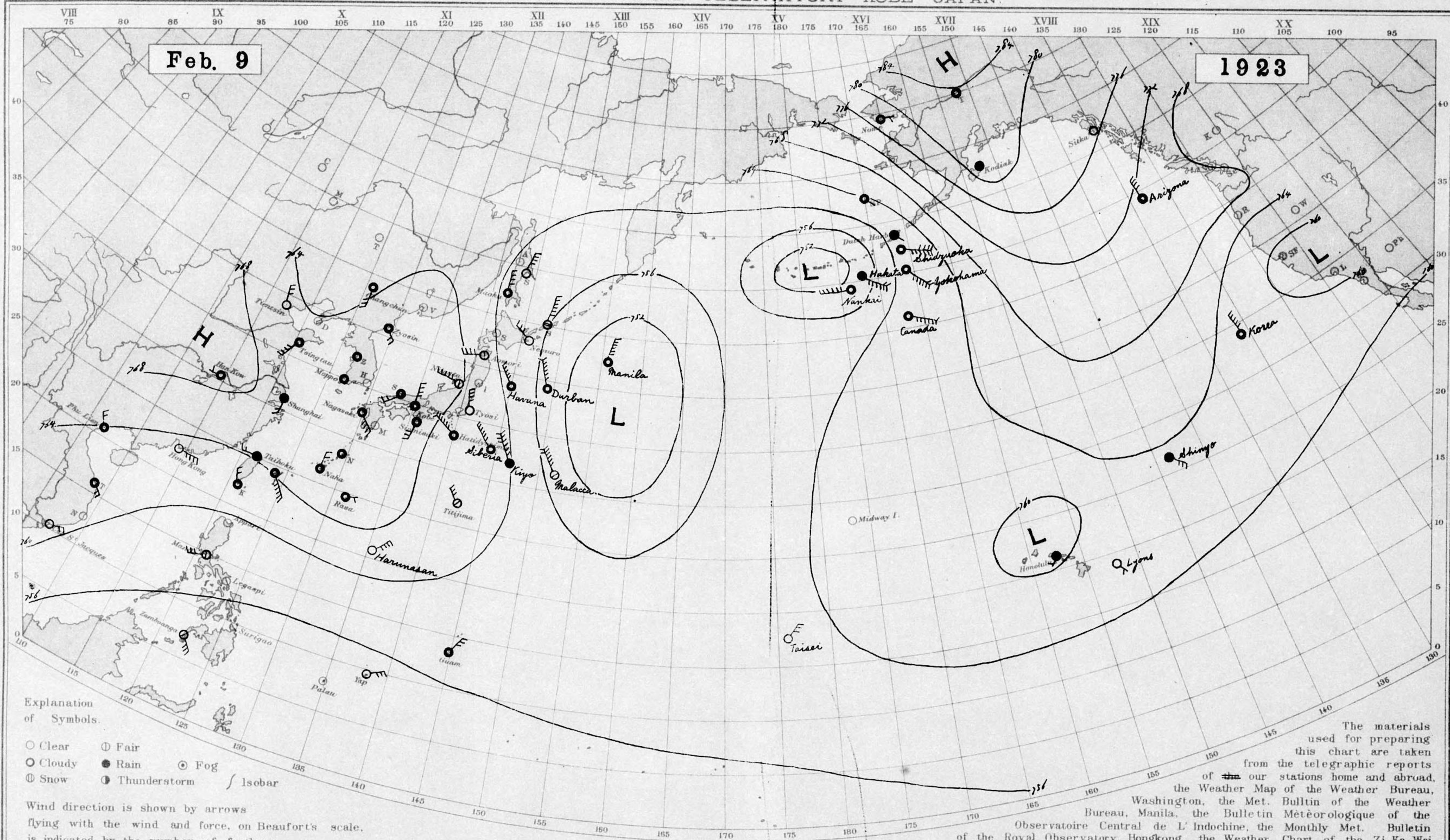
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DAILY WEATHER CHART OF THE NORTH PACIFIC OCEAN

(Noon of the time of 135° E.)

THE IMPERIAL MARINE OBSERVATORY KOBE JAPAN.

No 40



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Explanation of Symbols.
 ○ Clear ⊙ Fair
 ○ Cloudy ● Rain ⊙ Fog
 ⊙ Snow ⊙ Thunderstorm / Isobar

Wind direction is shown by arrows flying with the wind and force, on Beaufort's scale, is indicated by the number of feathers.

The materials used for preparing this chart are taken from the telegraphic reports of our stations home and abroad, the Weather Map of the Weather Bureau, Washington, the Met. Bulletin of the Weather Bureau, Manila, the Bulletin Météorologique of the Observatoire Central de L'Indochine, the Monthly Met. Bulletin of the Royal Observatory, Hongkong, the Weather Chart of the Zi-Ka-Wei Observatory and the met. logs of the Japanese merchant marine.

Station	Taihoku	Naha	Nagasaki	Siomi saki	Kôbe	Tyosi	Hatidyosima	Tai zima	Niigata	Aomori	Nemuro	Maoka	Moppo	Zyosin	Changchun	Tientsin	Tsingtau
Hour of Observation	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E
Atm. Pressure (Red. to m.s.l. and Std. Gr.)*	765.6	765.9	766.4	764.9	766.3	762.3	762.6	762.5	764.6	761.3	758.0	759.7	766.6	765.0	763.6	765.2	766.5
Air Temperature (in C)	14.1	16.5	5.2	8.0	6.1	4.6	8.5	17.3	3.1	0.8	- 5.1	- 5.1	1.1	1.6	- 4.4	-	1.9
Direction and Force of Winds (0-12)	W 2	N 2	SE 4	SSW 3	N 4	NNW 4	WNW 7	NW 3	W 5	WSW 4	WNW 3	N 4	calm	SE 2	S 3	NNW 3	SSW 4
Weather	rain	cloudy	cloudy	cloudy	cloudy	clear	cloudy	fair	fair	fair	clear	cloudy	cloudy	cloudy	cloudy	clear	cloudy
Station	Shanghai	Hankow	Rasa	Palau	Hongkong	Manila	Surigao	Guam	Yap	Phu-Lien	Cap-S-Jacques	Honolulu	Midway I.	Nome	Sitka	Dutch Harbor	Kodiak
Hour of Observation	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	14 ^h	14 ^h	14 ^h	14 ^h	14 ^h	10 ^h	10 ^h	20 ^h	18 : 30 ^h	20 ^h , 135 W	20 ^h , 135 W	20 ^h , 135 W	20 ^h , 135 W
Atm. Pressure (Red. to m.s.l. and Std. Gr.)*	766.5	768.7	765.7	-	763.4	759.3	-	758.2	757.6	765.7	762.1	759.5	-	777.7	776.2	762.0	781.3
Air Temperature (in C)	2.5	-	17.8	-	16.	28.	-	-	-	12.	26.	22.	-	- 1.	0.	4.	1.
Direction and Force of Winds (0-12)	S 2	W 1	ENE 1	-	E 4	WSW 3	-	NE 3	ENE 3	NW 2	ENE 2	SW 1	-	E 1	calm	SE -	calm
Weather	rain	cloudy	cloudy	-	clear	fair	-	cloudy	clear	cloudy	clear	rain	-	cloudy	clear	rain	rain

日 九 月 二 年 二 十 正 大

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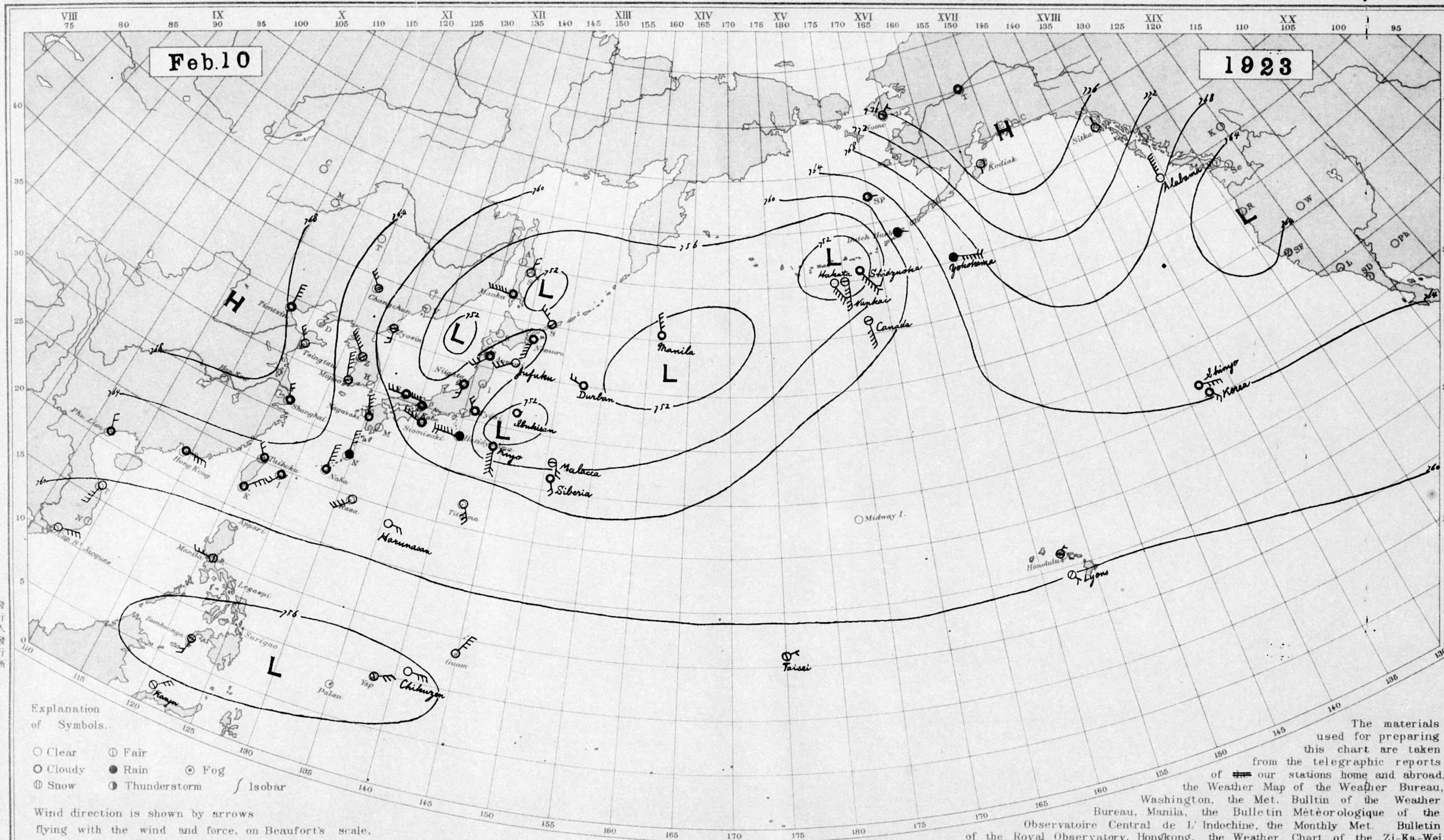
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DAILY WEATHER CHART OF THE NORTH PACIFIC OCEAN

(Noon of the time of 135° E.)

THE IMPERIAL MARINE OBSERVATORY KOBE JAPAN

No 41



Explanation of Symbols.

- Clear
- Cloudy
- ⊙ Snow
- Fair
- Rain
- ⊙ Fog
- ⊙ Thunderstorm
- Isobar

Wind direction is shown by arrows flying with the wind and force, on Beaufort's scale, is indicated by the number of feathers.

The materials used for preparing this chart are taken from the telegraphic reports of our stations home and abroad, the Weather Map of the Weather Bureau, Washington, the Met. Bulletin of the Weather Bureau, Manila, the Bulletin Météorologique of the Observatoire Central de L'Indochine, the Monthly Met. Bulletin of the Royal Observatory, Hongkong, the Weather Chart of the Zi-Ka-Wei Observatory and the met. logs of the Japanese merchant marine.

Station	Taihoku	Naha	Naga saki	Siomisaki	Kôbe	Tyosi	Hatidyosima	Tiizima	Niigata	Aomori	Nemuro	Maoka	Moppo	Zyosin	Changchun	Tientsin	Tsingtau
Hour of Observation	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E
Atm. Pressure (Red to m.s.l. and Strd Gr. * not reduced to Strd Gr.)	763.5	761.4	762.1	757.9	758.6	756.6	756.4	761.9	756.4	756.3	752.7	762.7	757.4	762.1	767.9	767.1	
Air Temperature (in C)	17.5	18.1	7.2	10.9	6.8	2.5	10.0	18.4	2.7	4.1	-1.5	5.4	2.1	-10.4	-	-0.2	
Direction and Force of Winds (0-12)	NW 2	N 5	NNW 4	WNW 4	W 4	NW 2	W 8	SSE 3	SSW 2	SW 3	SSW 5	W 6	NNW 6	S 2	NW 3	N 4	
Weather	cloudy	cloudy	cloudy	cloudy	cloudy	cloudy	rain	clear	cloudy	cloudy	cloudy	cloudy	fair	fair	snow	cloudy	clear
Station	Shanghai	Hankow	Rasa	Palau	Hongkong	Manila	Surigao	Guam	Yap	Phu-Lien	Cap-S-Jacques	Honolulu	Midway I.	Nome	Sitka	Dutch Harbor	Kodiak
Hour of Observation	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	14 ^h	14 ^h	14 ^h	14 ^h	14 ^h	10 ^h	10 ^h	20 ^h	18 : 30 ^h	20 ^h , 135 W	20 ^h , 135 W	20 ^h , 135 W	20 ^h , 135 W
Atm. Pressure (Red to m.s.l. and Strd Gr. * not reduced to Strd Gr.)	766.8	-	761.8	-	761.6	758.2	-	758.1	757.2	763.0	761.1	760.5	-	775.7	775.7	762.0	778.8
Air Temperature (in C)	6.6	-	21.8	-	17.	28.	-	-	-	14.	25.	20.	-	0.	0.	4.	-1.
Direction and Force of Winds (0-12)	NNW 2	-	SW 4	-	E 4	W 3	-	NE 4	ENE 3	NNW 2	ENE 4	NE 1	-	NE 1	N -	E -	S -
Weather	cloudy	-	clear	-	cloudy	fair	-	clear	fair	cloudy	clear	fair	-	fair	clear	rain	clear

日十月二年二十正大

圖氣天洋平大北

號十四第

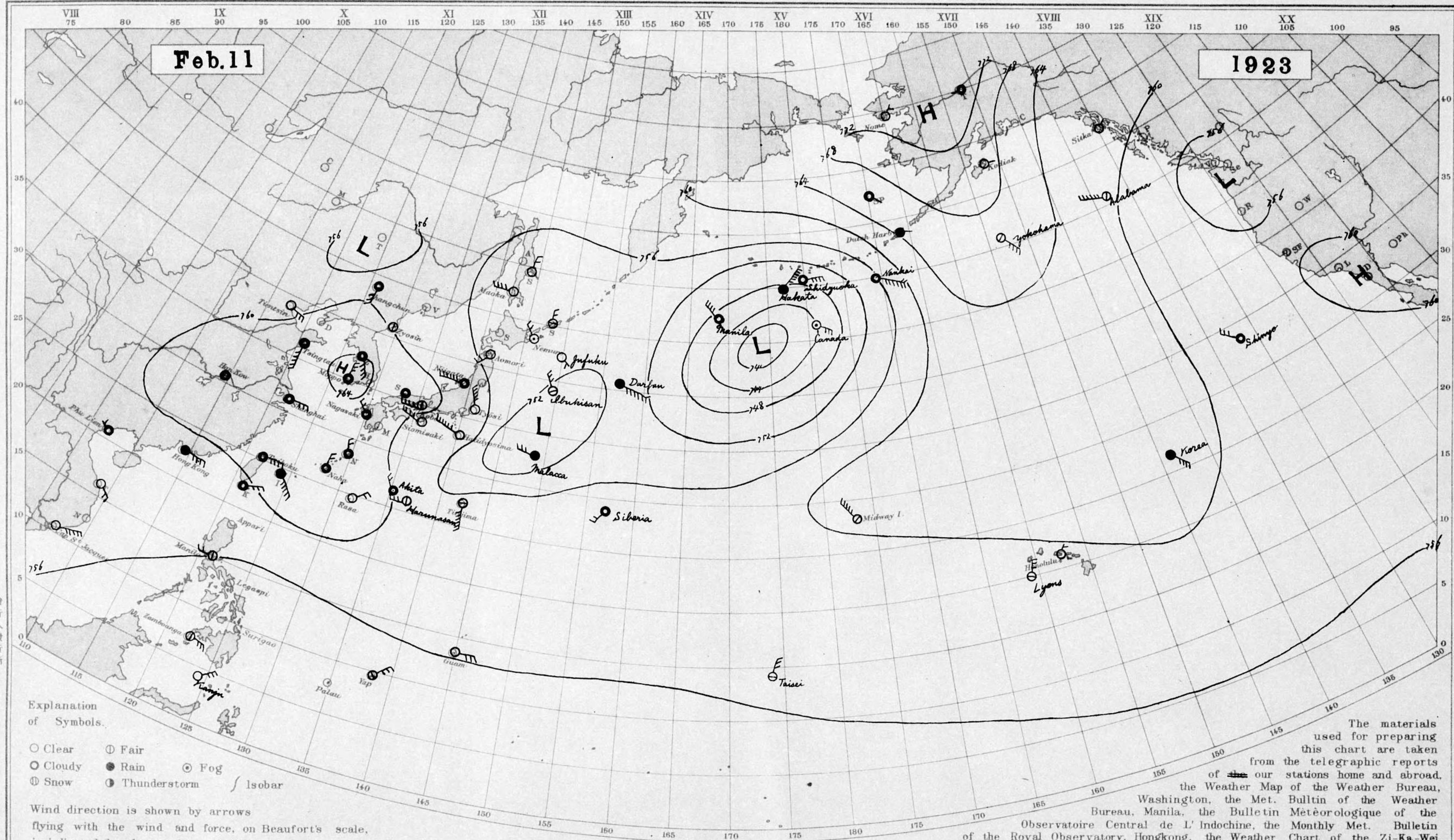
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DAILY WEATHER CHART OF THE NORTH PACIFIC OCEAN

(Noon of the time of 135° E.)

THE IMPERIAL MARINE OBSERVATORY KOBE JAPAN

No 42



Explanation of Symbols.

○ Clear ⊙ Fair
 ☁ Cloudy ● Rain ⊙ Fog
 ❄ Snow ⚡ Thunderstorm / Isobar

Wind direction is shown by arrows flying with the wind and force, on Beaufort's scale, is indicated by the number of feathers.

The materials used for preparing this chart are taken from the telegraphic reports of our stations home and abroad, the Weather Map of the Weather Bureau, Washington, the Met. Bulletin of the Weather Bureau, Manila, the Bulletin Météorologique of the Observatoire Central de L'Indochine, the Monthly Met. Bulletin of the Royal Observatory, Hongkong, the Weather Chart of the Zi-Ka-Wei Observatory and the met. logs of the Japanese merchant marine.

Station	Taihoku	Naha	Nagasaki	Siomisaki	Kôbe	Tyosi	Hatidyosima	Titizima	Niigata	Aomori	Nemuro	Maoka	Moppo	Zyosin	Changchun	Tientsin	Tsingtau
Hour of Observation	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E
Atm. Pressure (Red. to m.s.l. and Strd. Gr. * not reduced to Strd. Gr.)	760.6	761.5	762.5	759.2	760.9	757.5	758.4	758.8	759.6	755.5	755.6	764.0	764.2	759.5	759.0	759.2	763.3
Air Temperature (in C)	10.8	19.9	8.9	11.0	7.1	8.0	10.7	21.4	4.5	6.6	-3.4	0.1	2.0	1.4	-9.0	-	2.0
Direction and Force of Winds (0-12)	E 4	N 2	NW 2	WNW 4	W 4	NNW 5	WNW 6	S 6	W 6	SW 2	NW 2	W 4	N 3	calm	SSW 3	ENE 3	S 5
Weather	cloudy	cloudy	cloudy	clear	fair	clear	clear	fair	cloudy	clear	fog	clear	cloudy	fair	cloudy	clear	cloudy
Station	Shanghai	Hankow	Rosa	Palau	Hongkong	Manila	Surigao	Guam	Yap	Phu-Lien	Cap-S-Jacques	Honolulu	Midway I.	Nome	Sitka	Dutch Harbor	Kodiak
Hour of Observation	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	14 ^h	14 ^h	14 ^h	14 ^h	14 ^h	10 ^h	10 ^h	20 ^h	18 : 30 ^h	20 ^h , 135 W	20 ^h , 135 W	20 ^h , 135 W	20 ^h , 135 W
Atm. Pressure (Red. to m.s.l. and Strd. Gr. * not reduced to Strd. Gr.)	763.6	762.8	761.9	-	759.8	* 757.7	-	* 757.8	* 757.2	* 761.1	* 760.6	759.9	760.5	773.7	761.0	764.0	769.1
Air Temperature (in C)	5.3	-	22.8	-	15.	24.	-	-	-	15.	25.	21.	17.	-2.	0	4.	1.
Direction and Force of Winds (0-12)	E 3	-	NE 2	-	E 4	W 2	-	E 3	NE 3	WNW 1	ENE 5	NE 1	NW 5	NE 1	NE -	E -	E -
Weather	cloudy	cloudy	clear	-	rain	fair	-	clear	fair	cloudy	clear	clear	fair	clear	clear	rain	clear

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 海 洋 氣 象 臺

日 - 十 月 - 年 - 正 大

圖 氣 天 洋 平 大 北

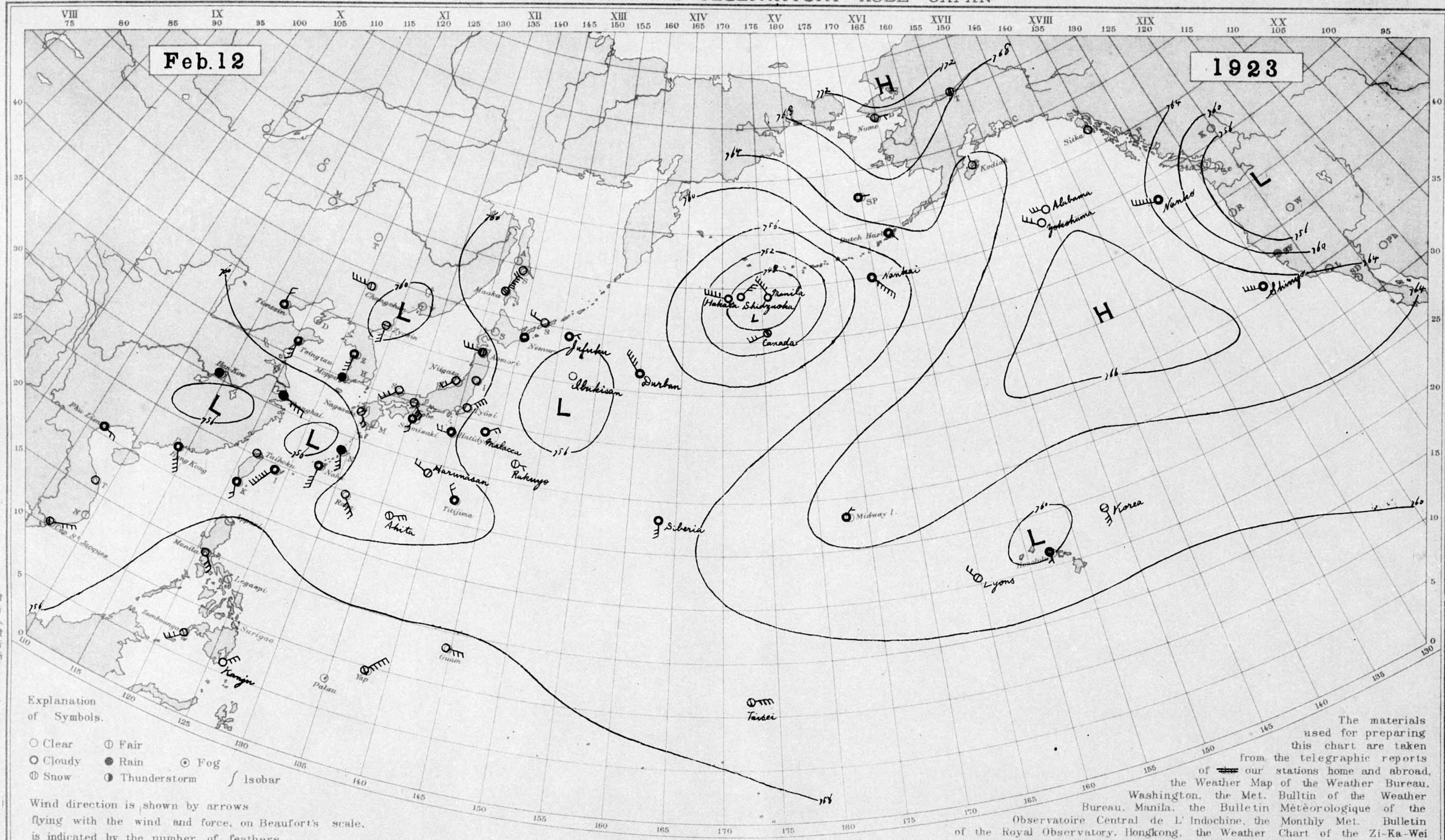
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DAILY WEATHER CHART OF THE NORTH PACIFIC OCEAN

(Noon of the time of 135° E.)

THE IMPERIAL MARINE OBSERVATORY KOBE JAPAN

No 43



印 發 行 人 販 賣 所 神 戶 市 中 山 手 通 七 丁 目 海 洋 氣 象 臺

Explanation of Symbols.

- Clear
- ☉ Fair
- ☁ Cloudy
- ☔ Rain
- ☁ Fog
- ❄ Snow
- ⚡ Thunderstorm
- Isobar

Wind direction is shown by arrows flying with the wind and force, on Beaufort's scale, is indicated by the number of feathers.

The materials used for preparing this chart are taken from the telegraphic reports of our stations home and abroad, the Weather Map of the Weather Bureau, Washington, the Met. Bulletin of the Weather Bureau, Manila, the Bulletin Météorologique of the Observatoire Central de L'Indochine, the Monthly Met. Bulletin of the Royal Observatory, Hongkong, the Weather Chart of the Zi-Ka-Wei Observatory and the met. logs of the Japanese merchant marine.

Station	Taihoku	Naha	Nagasaki	Siomisaki	Kôbe	Tyosi	Hatidyosima	Titizima	Niigata	Aomori	Nemuro	Maoka	Moppo	Zyosin	Changchun	Tientsin	Tsingtau
Hour of Observation	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E
Atm. Pressure (Red. to m.s.l. and Strd. Gr.)	759.0	759.1	761.3	760.5	761.3	760.2	760.1	761.1	761.5	760.7	758.1	756.9	761.6	758.6	761.2	762.9	761.4
Air Temperature (in C)	19.5	23.9	9.9	13.1	9.0	8.2	13.8	20.7	4.2	2.5	-3.0	-2.6	6.4	0.8	-9.0	-	3.2
Direction and Force of Winds (0-12)	calm	S 4	SE 2	S 2	SE 3	NE 4	W 2	NW 2	SW 2	W 3	calm	NNE 8	calm	S 3	W 4	N 2	S 3
Weather	clear	cloudy	fair	cloudy	clear	clear	cloudy	cloudy	clear	snow	cloudy	snow	rain	fair	fair	cloudy	cloudy
Station	Shanghai	Hankow	Rasa	Palau	Hongkong	Manila	Surigao	Guam	Yap	Phu-Lien	Cap-S-Jacques	Honolulu	Midway I.	Nome	Sitka	Dutch Harbor	Kodiak
Hour of Observation	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	14 ^h	14 ^h	14 ^h	14 ^h	14 ^h	10 ^h	10 ^h	20 ^h	18 : 30 ^h	20 ^h , 135 W	20 ^h , 135 W	20 ^h , 135 W	20 ^h , 135 W
Atm. Pressure (Red. to m.s.l. and Strd. Gr.)	758.5	758.0	761.3	-	757.4	756.7	-	757.2	756.7	760.1	760.4	759.5	765.0	771.1	766.6	763.5	763.5
Air Temperature (in C)	8.1	-	23.3	-	23.	32.	-	-	-	16.	26.	22.	16.	-1.	+3.	3.	4.
Direction and Force of Winds (0-12)	ESE 4	calm	SE 4	-	SSE 4	SE 3	-	E 3	NE 5	ESE 2	ENE 4	S 1	NE 1	E 1	calm	SE -	N -
Weather	rain	rain	clear	-	cloudy	clear	-	clear	fair	cloudy	fair	cloudy	cloudy	fair	clear	cloudy	clear

日二十月二年十正大

圖氣天洋平大北

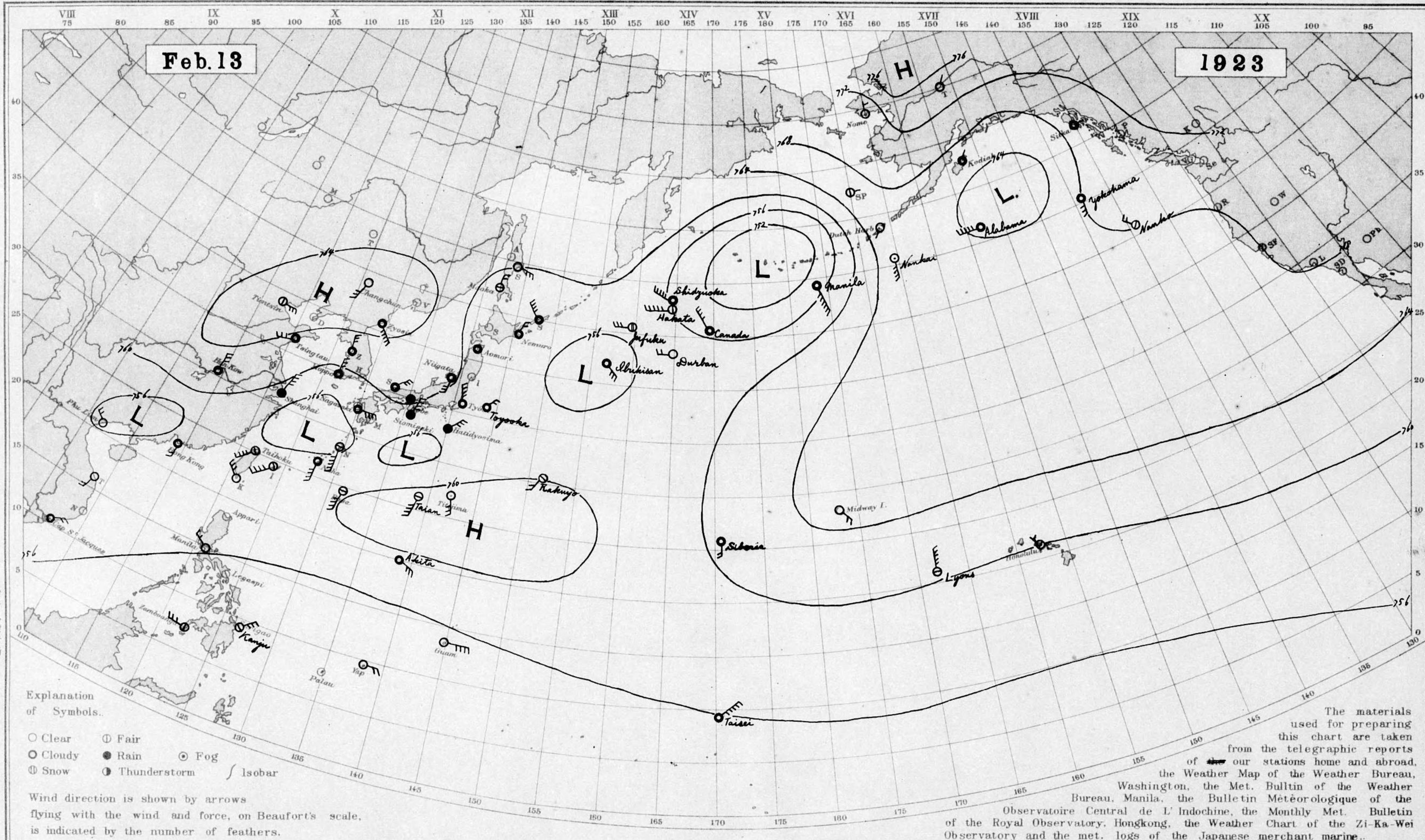
號五十四第

DAILY WEATHER CHART OF THE NORTH PACIFIC OCEAN

(Noon of the time of 135° E.)

THE IMPERIAL MARINE OBSERVATORY KOBE JAPAN

No 44



Explanation of Symbols.

- Clear
- ⊙ Fair
- ☁ Cloudy
- Rain
- ⊙ Fog
- ❄ Snow
- ⊙ Thunderstorm
- Isobar

Wind direction is shown by arrows flying with the wind and force, on Beaufort's scale, is indicated by the number of feathers.

The materials used for preparing this chart are taken from the telegraphic reports of our stations home and abroad, the Weather Map of the Weather Bureau, Washington, the Met. Bulletin of the Weather Bureau, Manila, the Bulletin Météorologique of the Observatoire Central de L'Indochine, the Monthly Met. Bulletin of the Royal Observatory, Hongkong, the Weather Chart of the Zi-Ka-Wei Observatory and the met. logs of the Japanese merchant marine.

Station	Taihoku	Naha	Nagasaki	Siomisaki	Kobe	Tyosi	Hatidyosima	Titizima	Niigata	Aomori	Nemuro	Maoka	Moppo	Zyosin	Changchun	Tientsin	Tsingtau
Hour of Observation	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E
Atm. Pressure (Red. to m.s.l. and Strd. Gr.)	756.4	757.3	756.4	758.1	760.8	758.9	756.5	760.7	761.4	759.6	758.7	759.1	759.4	765.4	764.6	765.2	763.9
Air Temperature (in C)	26.1	22.3	9.3	8.3	5.4	8.7	11.8	21.0	2.6	1.9	- 3.5	- 3.0	0.2	- 0.4	- 7.6	-	2.2
Direction and Force of Winds (0-12)	SW 4	S 4	E 4	NNE 4	calm	NNW 4	NE 3	SSW 3	SSW 3	calm	NNE 2	NNE 2	N 3	SE 5	SSW 3	E 3	WSW 3
Weather	fair	cloudy	cloudy	rain	rain	cloudy	rain	clear	cloudy	cloudy	cloudy	fair	cloudy	cloudy	clear	fair	cloudy
Station	Shanghai	Hankow	Rasa	Palau	Hongkong	Manila	Surigao	Guam	Yap	Phu-Lien	Cap-S-Jacques	Honolulu	Midway I.	Nome	Sitka	Dutch Harbor	Kodiak
Hour of Observation	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	14 ^h	14 ^h	14 ^h	14 ^h	14 ^h	10 ^h	10 ^h	20 ^h	13 : 30 ^h	20 ^h , 135 W	20 ^h , 135 W	20 ^h , 135 W	20 ^h , 135 W
Atm. Pressure (Red. to m.s.l. and Strd. Gr.)	759.6	762.9	759.8	-	757.4	757.7	-	757.3	756.9	757.3	760.4	760.0	764.5	771.6	770.1	765.0	766.1
Air Temperature (in C)	5.9	-	24.8	-	24.	31.	-	-	-	21.	25.	20.	14.	1.	- 4.	7.	3.
Direction and Force of Winds (0-12)	NNE 4	N 3	SSW 4	-	S 2	WNW 2	-	E 4	E 2	NW 2	ENE 2	NW 1	SE 2	N 1	E -	SW -	NE -
Weather	rain	cloudy	fair	-	cloudy	clear	-	clear	clear	clear	cloudy	fair	clear	clear	cloudy	clear	cloudy

日二十月二年二十正大

圖氣天洋平大北

號四十四第

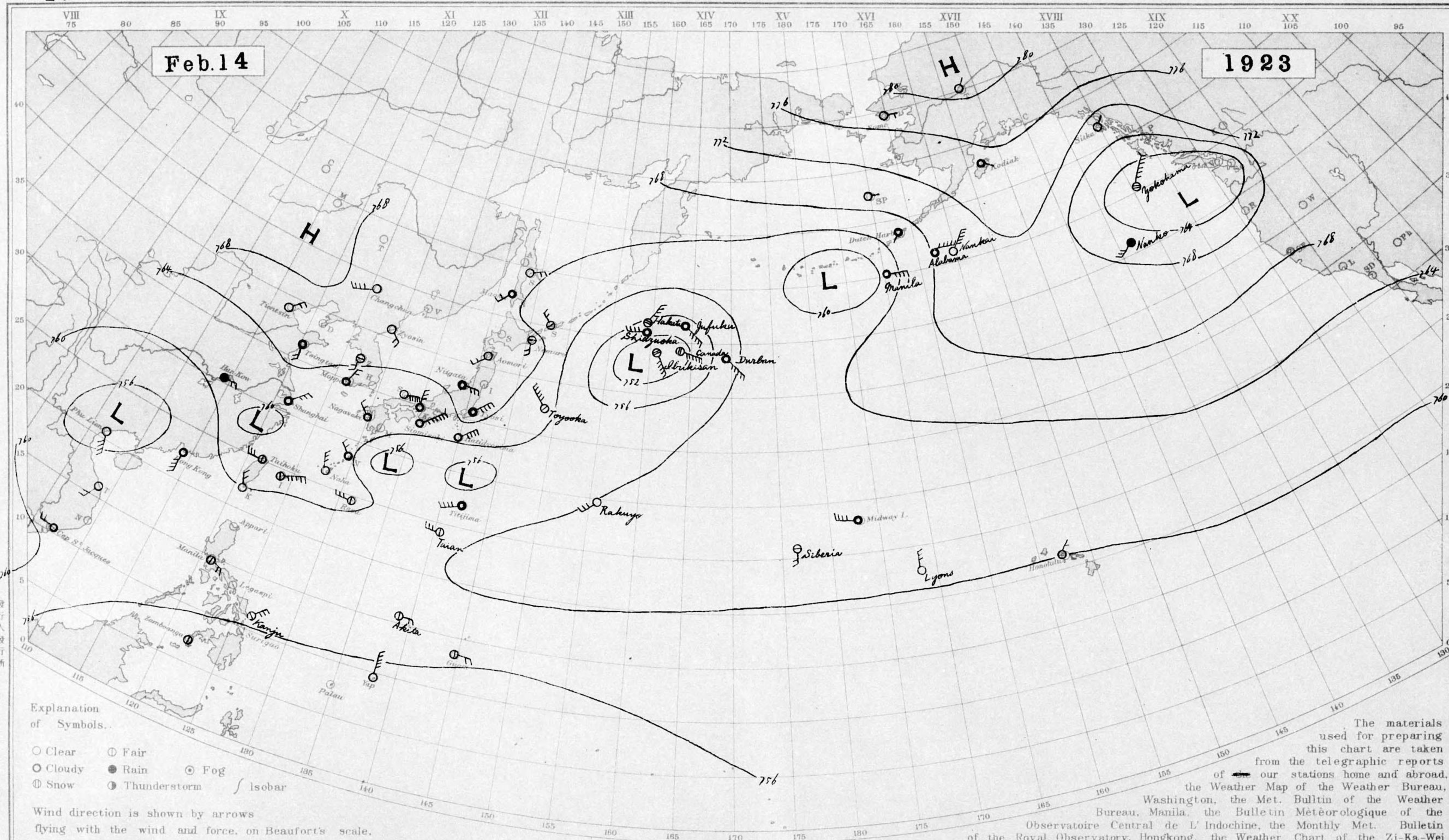
印發行人發行所
神戶市中山手通七丁目

DAILY WEATHER CHART OF THE NORTH PACIFIC OCEAN

(Noon of the time of 135° E.)

THE IMPERIAL MARINE OBSERVATORY KOBE JAPAN

No 45



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Explanation of Symbols.
 ○ Clear ○ Fair
 ☁ Cloudy ● Rain ☁ Fog
 ❄ Snow ⚡ Thunderstorm / Isobar

Wind direction is shown by arrows flying with the wind and force, on Beaufort's scale, is indicated by the number of feathers.

The materials used for preparing this chart are taken from the telegraphic reports of our stations home and abroad, the Weather Map of the Weather Bureau, Washington, the Met. Bulletin of the Weather Bureau, Manila, the Bulletin Météorologique of the Observatoire Central de L'Indochine, the Monthly Met. Bulletin of the Royal Observatory, Hongkong, the Weather Chart of the Zi-Ka-Wei Observatory and the met. logs of the Japanese merchant marine.

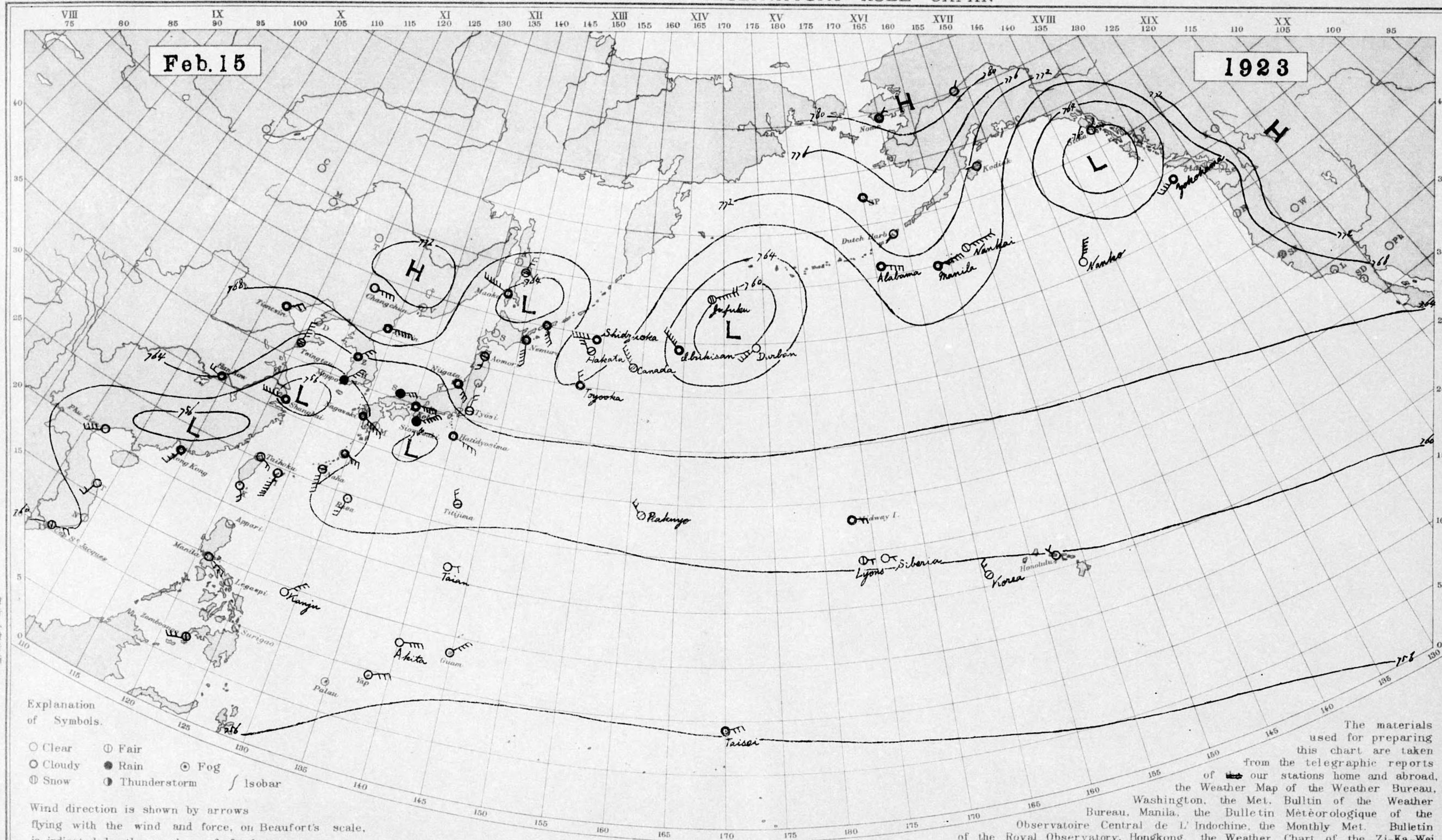
Station	Taihoku	Naha	Nagasaki	Siomisaki	Kōbe	Tyosī	Hatidyosima	Tiliuzina	Niigata	Aomori	Nemuro	Maoka	Moppo	Zyosin	Changchun	Tientsin	Tsingtau
Hour of Observation	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E
Atm. Pressure (Red. to m.s.l. and Srd Gr. * not reduced to Srd Gr.)	760.5	760.5	761.1	762.9	763.2	765.3	761.5	758.8	765.1	765.7	765.3	764.2	763.6	764.3	765.4	765.7	765.4
Air Temperature (in C)	22.4	22.8	10.3	9.6	8.0	9.0	13.0	22.4	6.1	5.7	-0.9	-4.6	9.2	2.5	-5.3	-	5.3
Direction and Force of Winds (0-12)	W 3	NNW 3	NW 2	NE 7	N 3	NE 4	NE 4	WSW 4	E 3	SW 2	S 2	SW 2	NNE 2	SE 2	WNW 4	NE 2	S 2
Weather	fair	clear	cloudy	cloudy	cloudy	cloudy	cloudy	cloudy	cloudy	clear	fair	cloudy	cloudy	clear	clear	clear	cloudy
Station	Shanghai	Hankow	Rasa	Palau	Hongkong	Manila	Surigao	Guam	Yap	Phu-Lien	Cap-S-Jacques	Honolulu	Midway I.	Nome	Sitka	Dutch Harbor	Kodiak
Hour of Observation	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	14 ^h	14 ^h	14 ^h	14 ^h	14 ^h	10 ^h	10 ^h	20 ^h	18 : 30 ^h	20 ^h , 135 W	20 ^h , 135 W	20 ^h , 135 W	20 ^h , 135 W
Atm. Pressure (Red. to m.s.l. and Srd Gr. * not reduced to Srd Gr.)	763.5	762.5	761.0	-	758.3	758.2	-	757.9	757.7	757.4	761.6	760.0	762.0	776.2	771.6	767.1	774.7
Air Temperature (in C)	6.9	-	24.8	-	25.	32.	-	-	-	24.	25.	19.	19.	-4.	-10.	2.	2.
Direction and Force of Winds (0-12)	NE 3	E 2	W 3	-	S 4	ESE 2	-	E 2	N 5	SSE 4	W 2	NE 1	W 4	E 1	NE -	SW -	SE -
Weather	cloudy	rain	fair	-	cloudy	fair	-	fair	clear	clear	cloudy	clear	cloudy	clear	clear	cloudy	cloudy

DAILY WEATHER CHART OF THE NORTH PACIFIC OCEAN

(Noon of the time of 135° E.)

THE IMPERIAL MARINE OBSERVATORY KOBE JAPAN

No 46



印 發 行 人 發 行 所
神 戶 市 中 山 手 通 七 丁 目
海 洋 氣 象 臺

Explanation of Symbols.

- Clear
- ⊙ Fair
- ☁ Cloudy
- ☔ Rain
- ☁ Fog
- ⚡ Thunderstorm
- Isobar

Wind direction is shown by arrows flying with the wind and force, on Beaufort's scale, is indicated by the number of feathers.

The materials used for preparing this chart are taken from the telegraphic reports of our stations home and abroad, the Weather Map of the Weather Bureau, Washington, the Met. Bulltin of the Weather Bureau, Manila, the Bulletin Météorologique of the Observatoire Central de L'Indochine, the Monthly Met. Bulletin of the Royal Observatory, Hongkong, the Weather Chart of the Zi-Ka-Wei Observatory and the met. logs of the Japanese merchant marine.

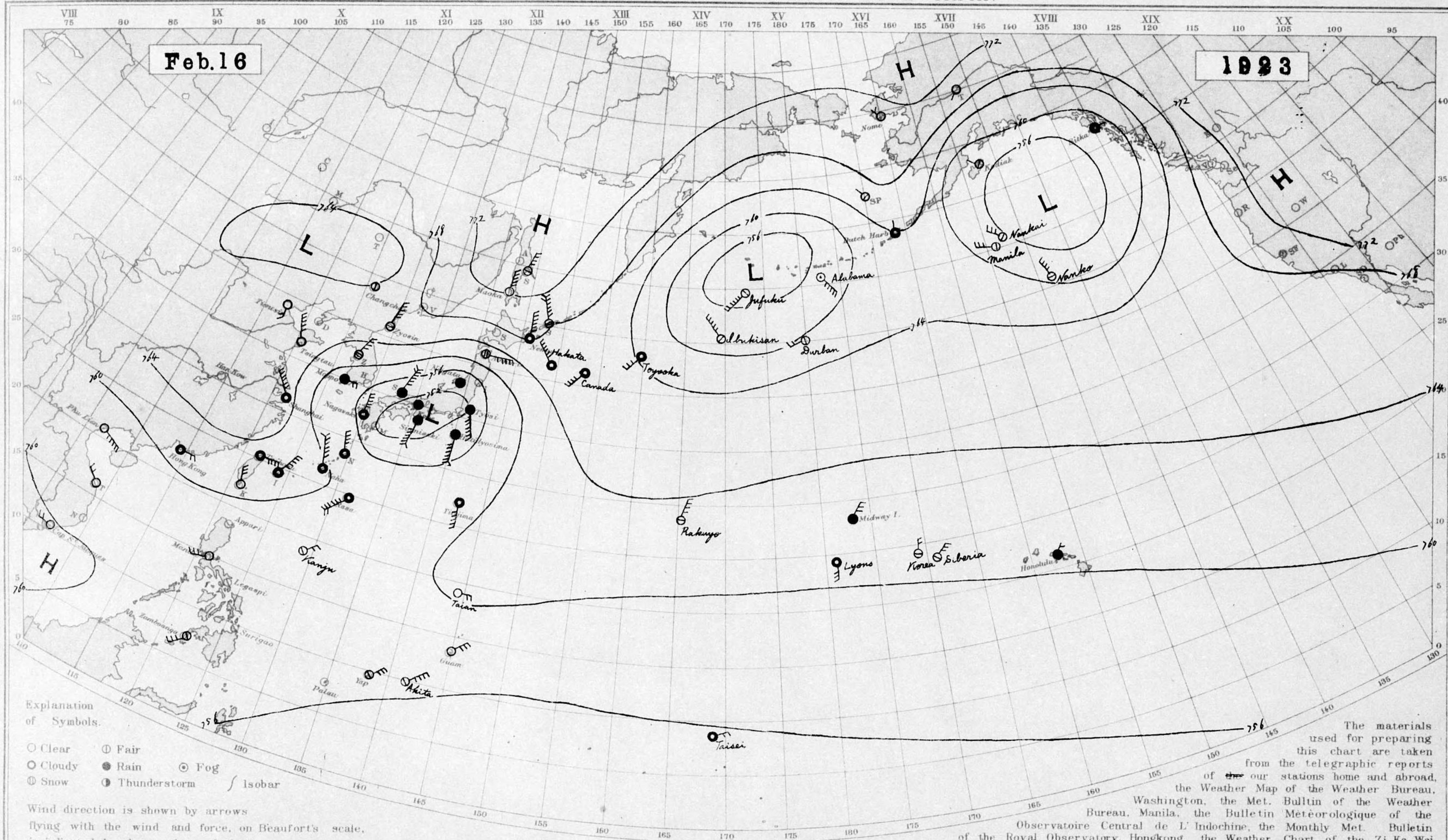
Station	Taihoku	Naha	Nagasaki	Siomisaki	Kōbe	Tyosi	Hatidyosima	Tiizima	Niigata	Aomori	Nemuro	Maoka	Moppo	Zyosin	Changchun	Tientsin	Tsingtau
Hour of Observation	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E
Atm. Pressure (Red. to m.s.l. and Strd. Gr.)	757.9	759.2	759.6	761.7	761.4	764.7	763.5	760.8	765.0	766.0	765.2	763.8	759.7	769.2	770.6	767.3	761.3
Air Temperature (in C)	21.9	25.7	14.2	13.2	13.0	11.2	16.0	22.0	5.2	6.4	0.5	-11.5	4.4	0.3	-6.0	-	-0.1
Direction and Force of Winds (0-12)	ESE 2	S 5	ESE 5	NE 6	E 5	N 2	ESE 4	NW 2	SE 3	SSW 2	S 5	WNW 6	NE 4	E 6	E 4	NE 2	N 5
Weather	clear	fair	cloudy	rain	cloudy	fair	cloudy	fair	cloudy	fair	cloudy	cloudy	rain	cloudy	clear	cloudy	snow
Station	Shanghai	Hankow	Rasa	Palau	Hongkong	Manila	Surigao	Guam	Yap	Phu-Lien	Cap St. Jacques	Honolulu	Midway I.	Nome	Sitka	Dutch Harbor	Kodiak
Hour of Observation	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	14 ^h	14 ^h	14 ^h	14 ^h	14 ^h	10 ^h	10 ^h	20 ^h	18 : 30 ^h	20 ^h , 135 W	20 ^h , 135 W	20 ^h , 135 W	20 ^h , 135 W
Atm. Pressure (Red. to m.s.l. and Strd. Gr.)	755.4	764.1	761.2	-	757.7	758.5	-	758.2	758.5	758.6	761.9	760.0	762.5	780.8	760.0	774.2	771.6
Air Temperature (in C)	10.8	-	26.3	-	25.	23.	-	-	-	26.	29.	20.	17.	-8.	-3.	3.	2.
Direction and Force of Winds (0-12)	W 5	W 2	SSW 3	-	SSW 3	ESE 3	-	NE 4	ENE 3	WSW 4	ENE 2	NW 1	E 2	NE 1	NE -	SW -	W -
Weather	cloudy	cloudy	clear	-	cloudy	clear	-	clear	clear	clear	fair	clear	cloudy	cloudy	clear	clear	clear

DAILY WEATHER CHART OF THE NORTH PACIFIC OCEAN

(Noon of the time of 135° E.)

THE IMPERIAL MARINE OBSERVATORY KOBE JAPAN

No 47



Explanation of Symbols.

- Clear
- Cloudy
- Snow
- Fair
- Rain
- Fog
- Thunderstorm
- Isobar

Wind direction is shown by arrows flying with the wind and force, on Beaufort's scale, is indicated by the number of feathers.

The materials used for preparing this chart are taken from the telegraphic reports of our stations home and abroad, the Weather Map of the Weather Bureau, Washington, the Met. Bulletin of the Weather Bureau, Manila, the Bulletin Météorologique of the Observatoire Central de L'Indochine, the Monthly Met. Bulletin of the Royal Observatory, Hongkong, the Weather Chart of the Zi-Ka-Wei Observatory and the met. logs of the Japanese merchant marine.

Station	Taihoku	Naha	Nagasaki	Siomisaki	Kobe	Tyosi	Hatidyosima	Tiizima	Niigata	Aomori	Nemuro	Maoka	Moppo	Zyosin	Changchun	Tientsin	Tsingtau
Hour of Observation	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E
Atm. Pressure (Red. to m.s.l. and Std. Gr. * not reduced to Std. Gr.)	762.8	760.3	754.9	748.2	749.6	752.0	753.4	758.9	753.1	763.1	768.0	772.0	758.7	767.5	764.0	766.6	765.8
Air Temperature (in C)	17.3	16.7	9.7	17.3	11.8	15.2	17.3	22.4	4.2	1.4	-6.1	-5.6	5.2	0.4	-2.6	-	-1.0
Direction and Force of Winds (0-12)	E 4	NNW 7	N 5	SSW 7	calm	SSE 6	S 7	S 5	calm	E 5	N 6	N 5	E 2	NNE 5	calm	S 2	NW 5
Weather	cloudy	cloudy	cloudy	rain	rain	rain	rain	cloudy	rain	snow	cloudy	clear	rain	fair	fair	clear	clear
Station	Shanghai	Hankow	Rasa	Palau	Hongkong	Manila	Surigao	Guam	Yap	Phu-Lien	Cap-S-Jacques	Honolulu	Midway I.	Nome	Sitka	Dutch Harbor	Kodiak
Hour of Observation	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	14 ^h	14 ^h	14 ^h	14 ^h	14 ^h	10 ^h	10 ^h	20 ^h	18 : 30 ^h	20 ^h , 135 W	20 ^h , 135 W	20 ^h , 135 W	20 ^h , 135 W
Atm. Pressure (Red. to m.s.l. and Std. Gr. * not reduced to Std. Gr.)	765.6	-	758.0	-	760.4	758.7	-	757.9	758.1	760.6	761.9	760.5	760.5	771.6	757.9	764.0	757.4
Air Temperature (in C)	4.8	-	24.8	-	22.	30.	-	-	-	24.	25.	19.	19.	-16.	0.	2.	0.
Direction and Force of Winds (0-12)	NW 6	-	SW 8	-	E 2	WSW 3	-	NE 3	NE 3	ESE 5	W 2	NE 1	NE 3	NW 1	E -	N -	NW -
Weather	cloudy	-	cloudy	-	cloudy	clear	-	clear	fair	clear	clear	rain	rain	clear	cloudy	cloudy	fair

日六十月二年二十正大

圖氣天洋平大北

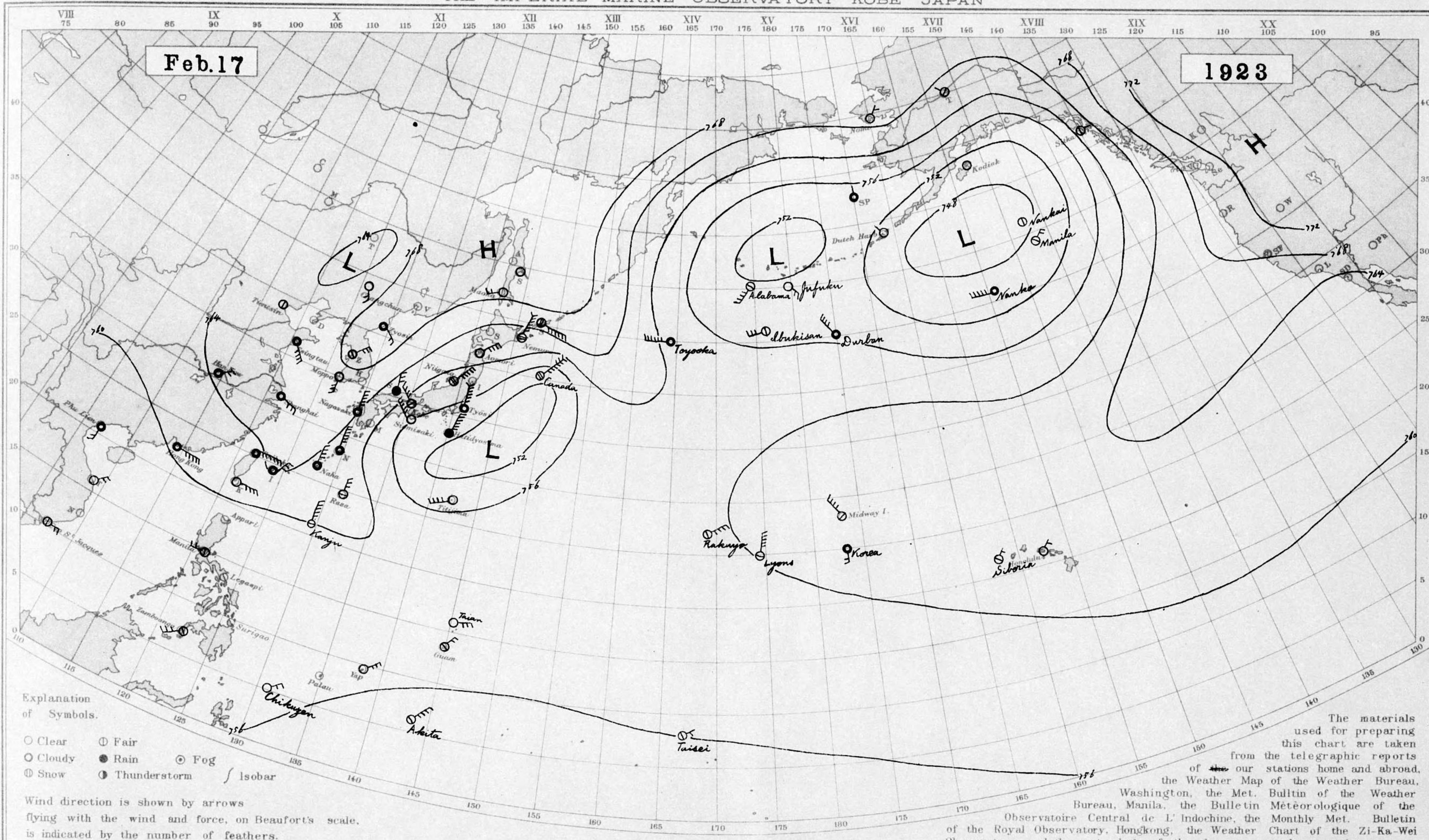
號七十四第

DAILY WEATHER CHART OF THE NORTH PACIFIC OCEAN

(Noon of the time of 135° E.)

THE IMPERIAL MARINE OBSERVATORY KOBE JAPAN

No. 48



Explanation of Symbols.

- Clear
- ⊙ Fair
- ☁ Cloudy
- Rain
- ⊙ Fog
- ⊙ Snow
- ⊙ Thunderstorm
- Isobar

Wind direction is shown by arrows flying with the wind and force, on Beaufort's scale, is indicated by the number of feathers.

The materials used for preparing this chart are taken from the telegraphic reports of our stations home and abroad, the Weather Map of the Weather Bureau, Washington, the Met. Bulletin of the Weather Bureau, Manila, the Bulletin Météorologique of the Observatoire Central de L'Indochine, the Monthly Met. Bulletin of the Royal Observatory, Hongkong, the Weather Chart of the Zi-Ka-Wei Observatory and the met. logs of the Japanese merchant marine.

Station	Taihoku	Naha	Nagasaki	Siomisaki	Kobe	Tyosi	Hatidyosima	Tiizima	Niigata	Aomori	Nemuro	Maoka	Moppo	Zyosin	Changchun	Tientsin	Tsingtau
Hour of Observation	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E
Atm. Pressure (Red. to m.s.l. and Strd. Gr.)	763.6	763.2	764.1	756.0	759.0	754.4	752.9	755.4	758.7	762.0	763.4	769.0	766.8	770.1	767.7	767.8	767.3
Air Temperature (in C)	17.6	17.3	8.5	11.5	8.1	3.7	8.8	21.2	1.8	0.9	-6.1	-7.2	9.6	0.5	-0.3	-	2.8
Direction and Force of Winds (0-12)	E 6	N 4	N 5	NW 5	NW 4	N 7	NNE 6	WSW 4	NE 5	NE 4	NNE 7	WSW 2	S 3	SE 2	SSE 2	calm	SE 4
Weather	cloudy	cloudy	cloudy	clear	fair	cloudy	rain	clear	snow	clear	snow	clear	clear	cloudy	clear	calm	fair
Station	Shanghai	Hankow	Rasa	Palau	Hongkong	Manila	Surigao	Guam	Yap	Phu-Lien	Cap-S-Jacques	Honolulu	Midway I.	Nome	Sitka	Dutch Harbor	Kodiak
Hour of Observation	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	14 ^h	14 ^h	14 ^h	14 ^h	14 ^h	10 ^h	10 ^h	20 ^h	18:30 ^h	20 ^h , 135 W	20 ^h , 135 W	20 ^h , 135 W	20 ^h , 135 W
Atm. Pressure (Red. to m.s.l. and Strd. Gr.)	766.6	764.5	761.5	-	761.5	759.3	-	757.2	757.8	759.6	761.6	761.5	761.0	764.5	763.0	750.3	751.3
Air Temperature (in C)	5.9	-	19.8	-	15.	30.	-	-	-	21.	30.	19.	16.	-4.	1.	0.	-7.
Direction and Force of Winds (0-12)	ESE 3	NE 2	N 3	-	E 5	W 2	-	NE 2	NE 3	S 2	E 2	NE 1	NW 4	NE 1	E -	NW -	calm
Weather	cloudy	cloudy	fair	-	cloudy	fair	-	fair	clear	cloudy	fair	clear	fair	clear	fair	clear	clear

日七十月二年一十正

圖氣天洋平大北

號八十四第

印發行人發行所
神戶市中山手通七丁目

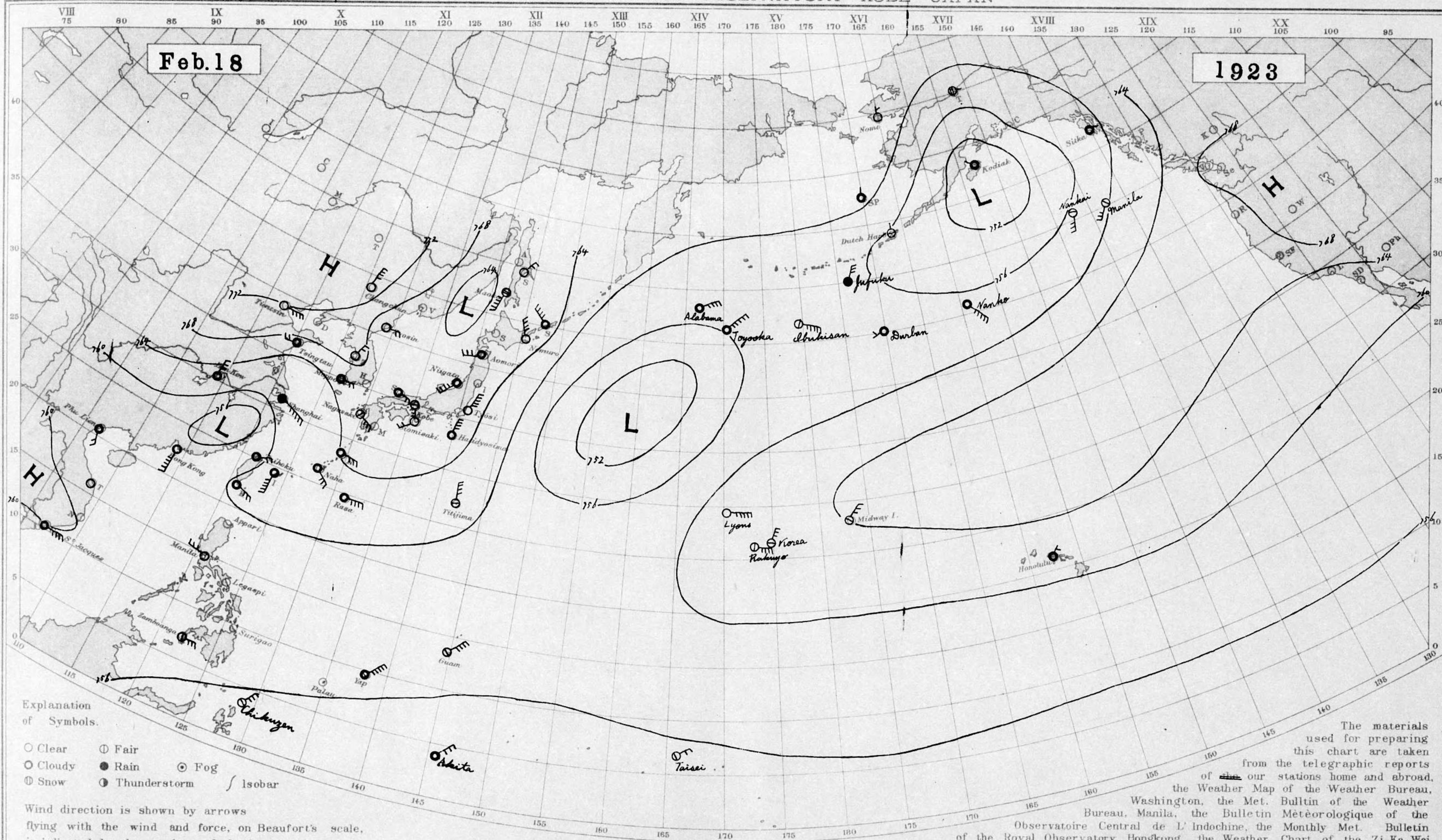
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DAILY WEATHER CHART OF THE NORTH PACIFIC OCEAN

(Noon of the time of 135° E.)

THE IMPERIAL MARINE OBSERVATORY KOBE JAPAN

No. 49



Explanation of Symbols.

- Clear
- Cloudy
- ⊙ Snow
- ⊙ Fair
- Rain
- ⊙ Fog
- ⊙ Thunderstorm
- Isobar

Wind direction is shown by arrows flying with the wind and force, on Beaufort's scale, is indicated by the number of feathers.

The materials used for preparing this chart are taken from the telegraphic reports of our stations home and abroad, the Weather Map of the Weather Bureau, Washington, the Met. Bulletin of the Weather Bureau, Manila, the Bulletin Météorologique of the Observatoire Central de L'Indochine, the Monthly Met. Bulletin of the Royal Observatory, Hongkong, the Weather Chart of the Zi-Ka-Wei Observatory and the met. logs of the Japanese merchant marine.

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海 戶 市 中 山 手 通 七 丁 目
海 氣 象 臺

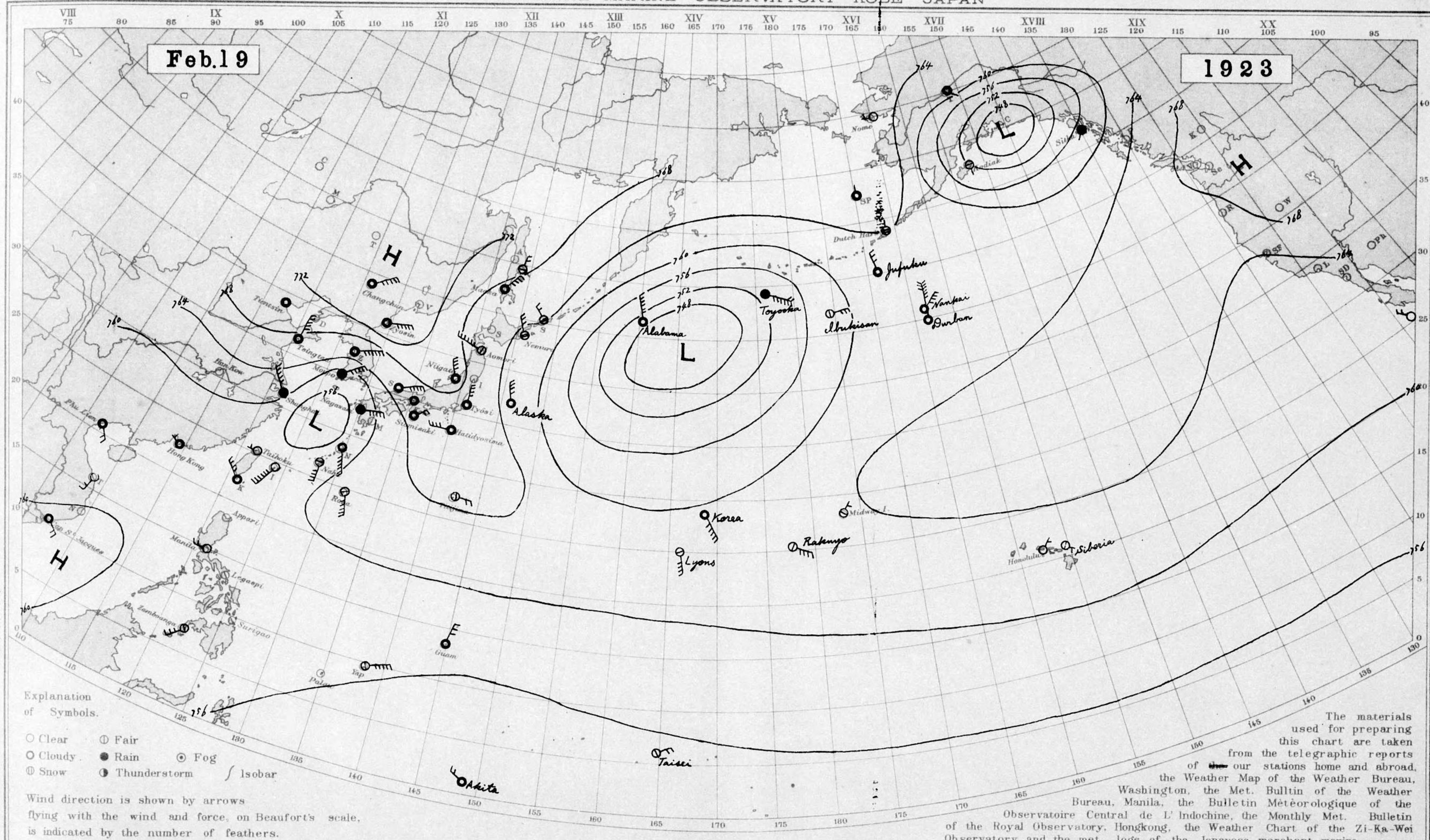
Station	Taihoku	Naha	Nagasaki	Siomisaki	Kōbe	Tyōsi	Hatidyosima	Titizima	Niigata	Aomori	Nemuro	Maoka	Moppo	Zyosin	Changchun	Tientsin	Tsingtau
Hour of Observation	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E
Atm. Pressure (Red. to m.s.l. and Strd. Gr.)*	759.0	762.9	765.4	765.2	766.8	765.3	765.2	762.1	766.9	765.4	765.1	765.1	767.0	766.8	774.4	772.1	767.7
Air Temperature (in C)	18.6	22.4	12.0	13.5	8.4	7.3	11.4	18.3	5.4	4.4	-7.6	-3.6	8.8	1.4	-6.2	-	5.1
Direction and Force of Winds (0-12)	ENE 2	SE 3	ESE 3	SW 2	SSE 2	NNE 5	NNE 4	N 4	SW 4	WSW 3	NNW 4	SSW 5	E 2	E 2	NNE 4	E 4	W 2
Weather	cloudy	cloudy	fair	clear	fair	clear	cloudy	fair	cloudy	cloudy	clear	snow	cloudy	clear	clear	clear	cloudy
Station	Shanghai	Hankow	Rasa	Palau	Hongkong	Manila	Surigao	Guam	Yap	Phu-Lien	Cap-S-Jacques	Honolulu	Midway I.	Nome	Sitka	Dutch Harbor	Kodiak
Hour of Observation	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	14 ^h	14 ^h	14 ^h	14 ^h	14 ^h	10 ^h	10 ^h	20 ^h	18 : 30 ^h	20 ^h , 135 W	20 ^h , 135 W	20 ^h , 135 W	20 ^h , 135 W
Atm. Pressure (Red. to m.s.l. and Strd. Gr.)*	761.5	762.5	763.2	-	757.7	759.5	-	758.5	758.3	758.6	761.7	760.5	764.0	762.0	759.5	755.9	749.8
Air Temperature (in C)	8.5	-	19.0	-	25.	29.	-	-	-	24.	28.	21.	16.	-8.	0.	1.	0.
Direction and Force of Winds (0-12)	ESE 5	N 3	E 4	-	S 5	WNW 3	-	NE 4	NE 5	SSE 2	E 4	NE 1	NE 3	N 1	E -	N -	NW -
Weather	rain	cloudy	fair	clear	fair	clear	cloudy	fair	cloudy	cloudy	cloudy	cloudy	fair	clear	cloudy	fair	cloudy

DAILY WEATHER CHART OF THE NORTH PACIFIC OCEAN

(Noon of the time of 135° E.)

THE IMPERIAL MARINE OBSERVATORY KOBE JAPAN

No 50



Explanation of Symbols.

- Clear
- ☉ Fair
- ☁ Cloudy
- ☔ Rain
- ☁ Fog
- ❄ Snow
- ⚡ Thunderstorm
- Isobar

Wind direction is shown by arrows flying with the wind and force, on Beaufort's scale, is indicated by the number of feathers.

The materials used for preparing this chart are taken from the telegraphic reports of our stations home and abroad, the Weather Map of the Weather Bureau, Washington, the Met. Bulletin of the Weather Bureau, Manila, the Bulletin Météorologique of the Observatoire Central de L'Indochine, the Monthly Met. Bulletin of the Royal Observatory, Hongkong, the Weather Chart of the Zi-Ka-Wei Observatory and the met. logs of the Japanese merchant marine.

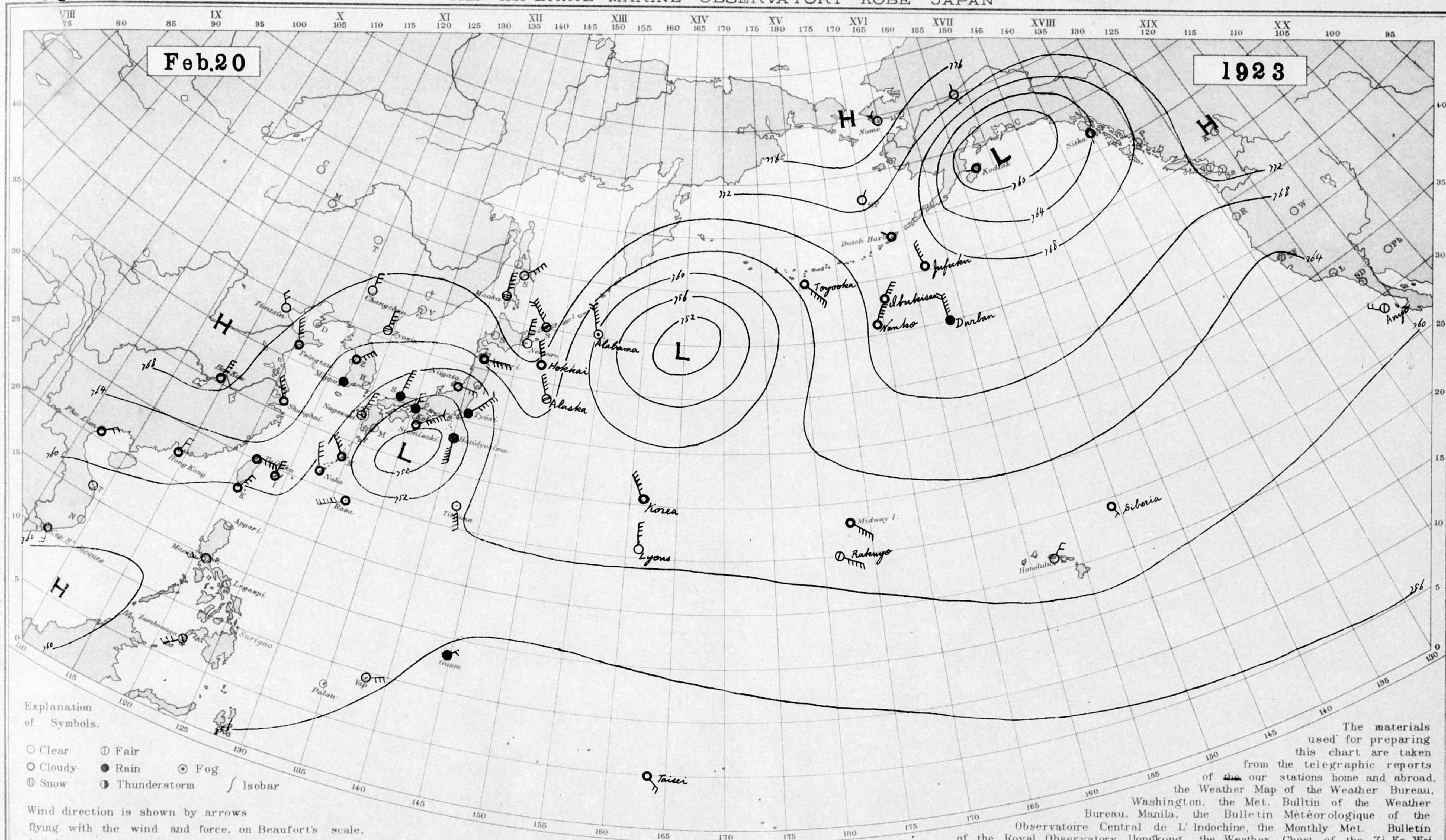
Station	Taihoku	Naha	Nagasaki	Siomisaki	Kobe	Tyosi	Hatidyosima	Tiizima	Niigata	Aomori	Nemuro	Maoka	Moppo	Zyosin	Changchun	Tientsin	Tsingtau
Hour of Observation	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E
Atm. Pressure (Red. to m.s.l. and Strd. Gr.)	758.5	759.2	758.3	764.1	766.2	765.4	764.6	764.1	768.4	766.7	763.7	767.3	759.5	773.5	773.2	770.7	765.4
Air Temperature (in C)	21.8	22.4	10.7	12.5	7.2	8.0	15.5	19.3	4.7	2.7	-5.6	-6.4	5.9	-11.6	-8.8	-	-0.4
Direction and Force of Winds (0-12)	W 1	S 4	ENE 5	NE 2	calm	N 4	W 4	E 2	NNW 4	WNW 6	NNW 3	NNE 4	NE 5	ENE 5	NE 5	calm	N 5
Weather	clear	fair	rain	cloudy	cloudy	cloudy	cloudy	fair	cloudy	fair	snow	cloudy	rain	cloudy	cloudy	cloudy	cloudy
Station	Shanghai	Hankow	Rasa	Palau	Hongkong	Manila	Surigao	Guam	Yap	Phu Lien	Cap St. Jacques	Honolulu	Midway I.	Nome	Sitka	Dutch Harbor	Kodiak
Hour of Observation	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	14 ^h	14 ^h	14 ^h	14 ^h	14 ^h	10 ^h	10 ^h	20 ^h	18 : 30 ^h	20 ^h , 135 W	20 ^h , 135 W	20 ^h , 135 W	20 ^h , 135 W
Atm. Pressure (Red. to m.s.l. and Strd. Gr.)	760.5	-	762.0	-	756.0	* 759.0	-	* 757.8	* 757.7	* 759.2	* 762.0	760.5	763.5	767.1	756.4	764.0	752.3
Air Temperature (in C)	7.3	-	22.9	-	22.	31.	-	-	-	21.	28.	21.	16.	-19.	1.	-1.	0.
Direction and Force of Winds (0-12)	NW 5	-	SSE 5	-	WNW 1	W 2	-	NNE 3	ENE 5	S 2	ESE 2	NE 1	NE 1	W 1	SW -	N -	S -
Weather	rain	-	fair	-	cloudy	clear	-	cloudy	fair	cloudy	cloudy	clear	fair	clear	rain	snow	fair

DAILY WEATHER CHART OF THE NORTH PACIFIC OCEAN

(Noon of the time of 135° E.)

THE IMPERIAL MARINE OBSERVATORY KOBE JAPAN

No 51



Explanation of Symbols.

- Clear
- ⊙ Fair
- ☁ Cloudy
- Rain
- ⊙ Fog
- ⊙ Snow
- ⊙ Thunderstorm
- Isobar

Wind direction is shown by arrows flying with the wind and force, on Beaufort's scale, is indicated by the number of feathers.

The materials used for preparing this chart are taken from the telegraphic reports of our stations home and abroad, the Weather Map of the Weather Bureau, Washington, the Met. Bulletin of the Weather Bureau, Manila, the Bulletin Météorologique of the Observatoire Central de L'Indochine, the Monthly Met. Bulletin of the Royal Observatory, Hongkong, the Weather Chart of the Zi-Ka-Wei Observatory and the met. logs of the Japanese merchant marine.

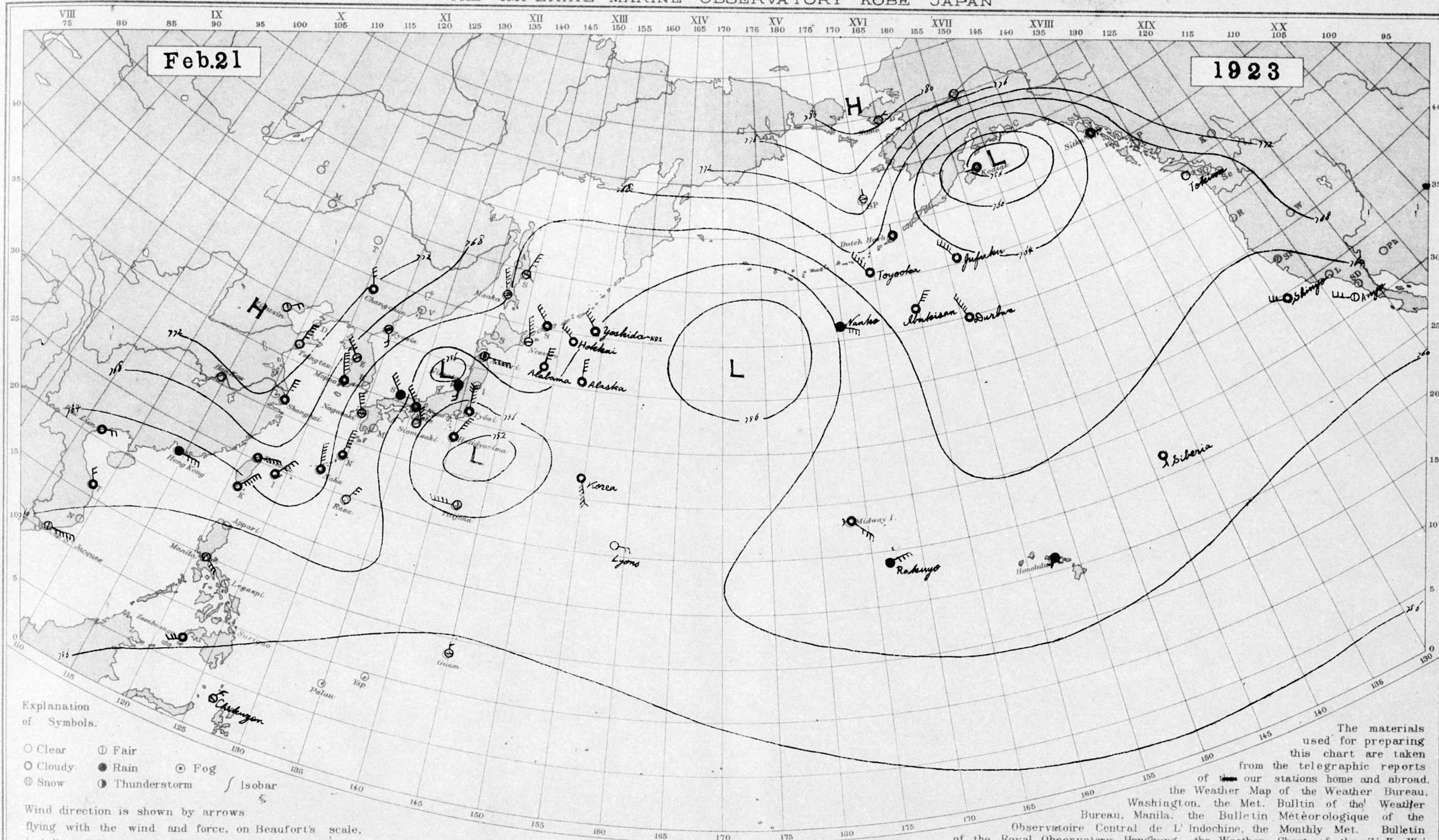
Station	Taihoku	Naha	Nagasaki	Siomisaki	Kobe	Tyosi	Hatidyosima	Tiizima	Niigata	Aomori	Nemuro	Maoka	Moppo	Zyosin	Changchun	Tientsin	Tsingtau
Hour of Observation	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E
Atm. Pressure (Red. to m.s.l. and Strd. Gr.)	763.0	759.3	757.1	752.6	754.5	758.8	753.0	759.5	759.4	764.2	768.4	770.4	761.7	767.2	767.0	769.9	766.8
Air Temperature (in C)	15.6	18.4	10.4	13.1	9.2	8.8	15.8	20.9	1.4	1.1	-10.8	-9.6	6.0	-3.2	-8.5	-	-1.8
Direction and Force of Winds (0-12)	E 4	NNW 5	N 5	NE 7	N 3	NE 7	S 6	SSE 5	E 3	E 5	N 6	N 5	calm	N 4	N 3	NW 2	NNW 6
Weather	cloudy	cloudy	fair	cloudy	rain	rain	rain	clear	cloudy	cloudy	clear	snow	rain	snow	clear	clear	cloudy
Station	Shanghai	Hankow	Rasa	Palau	Hongkong	Manila	Surigao	Guam	Yap	Phu-Lien	Cap-S-Jacques	Honolulu	Midway I.	Nome	Sitka	Dutch Harbor	Kodiak
Hour of Observation	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	14 ^h	14 ^h	14 ^h	14 ^h	14 ^h	10 ^h	10 ^h	20 ^h	18 : 30 ^h	20 ^h , 135 W	20 ^h , 135 W	20 ^h , 135 W	20 ^h , 135 W
Atm. Pressure (Red. to m.s.l. and Strd. Gr.)	766.0	768.7	758.4	-	761.3	* 759.1	-	* 757.1	* 757.6	* 763.0	* 761.5	761.5	761.0	777.2	764.0	770.1	758.4
Air Temperature (in C)	4.3	-	23.8	-	19.	30.	-	-	-	18.	25.	22.	19.	-16.	1.	-2.	-1.
Direction and Force of Winds (0-12)	NW 5	N 4	WSW 6	-	N 2	WSW 2	-	NE 1	ENE 3	NE 2	SSE 2	NE 2	SE 5	NW 1	S -	NW -	W -
Weather	cloudy	cloudy	cloudy	-	cloudy	clear	-	rain	clear	cloudy	cloudy	clear	cloudy	clear	cloudy	cloudy	cloudy

DAILY WEATHER CHART OF THE NORTH PACIFIC OCEAN

(Noon of the time of 135° E.)

THE IMPERIAL MARINE OBSERVATORY KOBE JAPAN

No 52



Explanation of Symbols.

- Clear
- Cloudy
- Snow
- Fair
- Rain
- Fog
- Thunderstorm
- Isobar

Wind direction is shown by arrows flying with the wind and force, on Beaufort's scale, is indicated by the number of feathers.

The materials used for preparing this chart are taken from the telegraphic reports of our stations home and abroad, the Weather Map of the Weather Bureau, Washington, the Met. Bulletin of the Weather Bureau, Manila, the Bulletin Météorologique of the Observatoire Central de L'Indochine, the Monthly Met. Bulletin of the Royal Observatory, Hongkong, the Weather Chart of the Zi-Ka-Wei Observatory and the met. logs of the Japanese merchant marine.

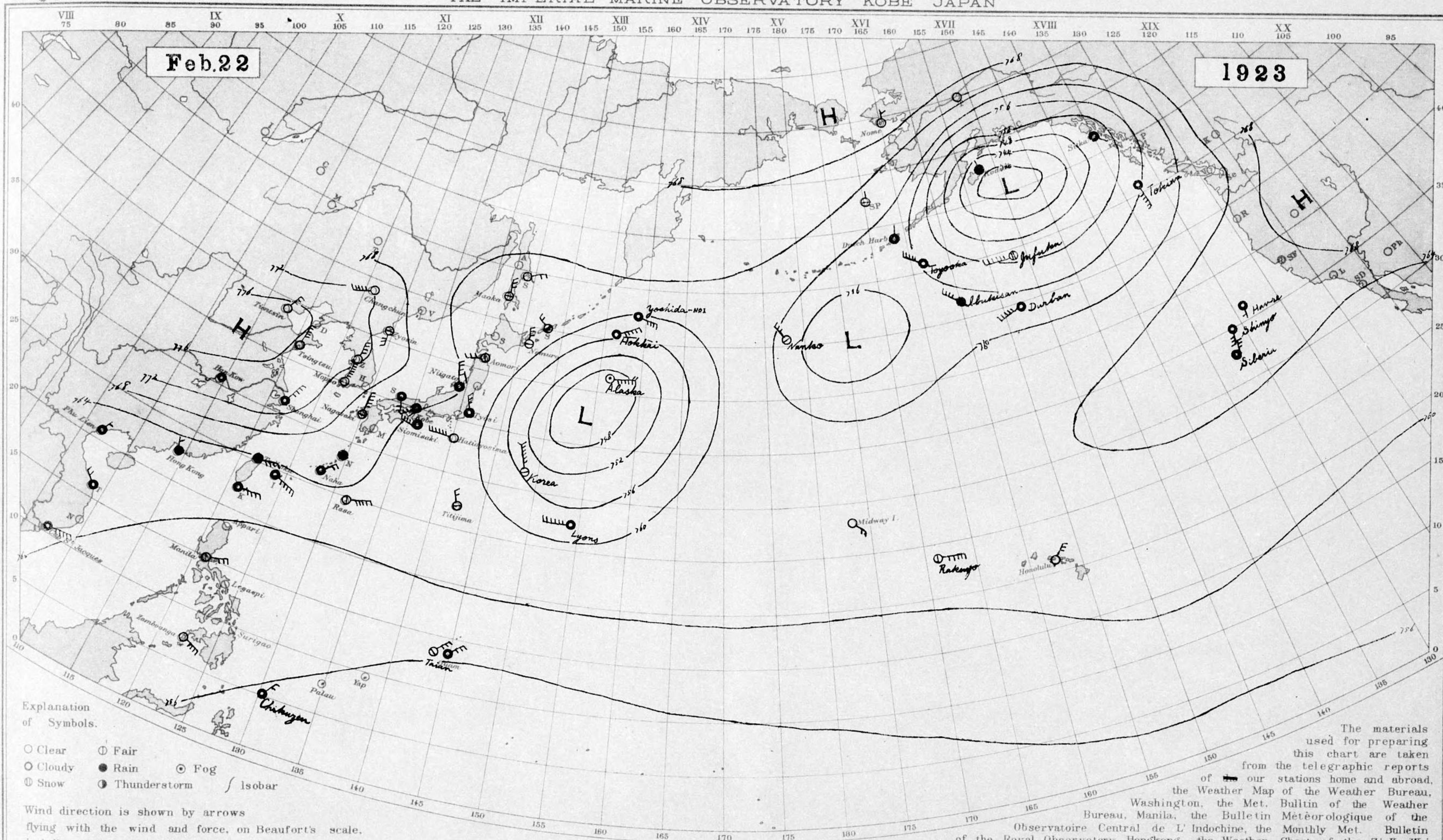
Station	Taihoku	Naha	Nagasaki	Siomi salci	Kobe	Tyosi	Hatidyosoma	Tilizima	Niigata	Aomori	Nemuro	Maoka	Moppo	Zyosin	Changchun	Tientsin	Tsingtau
Hour of Observation	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E
Atm. Pressure (Red. to m.s.l. and Strd. Gr.)	767.1	764.2	763.5	756.9	759.7	764.4	754.0	755.4	756.1	760.3	762.7	764.1	766.9	766.4	772.0	774.9	772.8
Air Temperature (in C)	14.0	16.9	9.4	12.0	8.3	5.5	11.3	20.3	2.6	-0.9	-0.2	-9.5	2.7	0.4	-10.6	-	-11.5
Direction and Force of Winds (0-12)	ENE 5	NNW 6	NNW 4	NNW 4	NW 4	N 9	NNE 5	W 5	S 2	E 5	NNW 5	NNW 5	NNW 6	SSE 2	NNW 3	NE 2	N 5
Weather	cloudy	cloudy	fair	clear	cloudy	rain	cloudy	fair	rain	snow	fair	snow	cloudy	snow	cloudy	fair	clear
Station	Shanghai	Hankow	Rasa	Paiou	Hongkong	Manila	Surigao	Guam	Yap	Phu-Lien	Cap-S-Jacques	Honolulu	Midway I.	Nome	Sitka	Dutch Harbor	Kodiak
Hour of Observation	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	14 ^h	14 ^h	14 ^h	14 ^h	14 ^h	10 ^h	10 ^h	10 ^h	18 : 30 ^h	20 ^h , 135 W	20 ^h , 135 W	20 ^h , 135 W	20 ^h , 135 W
Atm. Pressure (Red. to m.s.l. and Strd. Gr.)	771.7	771.5	762.0	-	763.7	759.3	-	757.0	-	764.2	761.4	763.0	762.0	780.8	764.5	766.1	755.9
Air Temperature (in C)	2.7	-	20.2	-	15.	32.	-	-	-	18.	27.	20.	19.	-14.	2.	-4.	-1.
Direction and Force of Winds (0-12)	N 4	calm	NNW 3	-	E 4	SE 3	-	N 1	-	ENE 2	ENE 5	SW 1	SE 5	NE 1	E -	N -	W -
Weather	cloudy	clear	fair	-	rain	fair	-	fair	-	cloudy	fair	rain	cloudy	clear	cloudy	cloudy	cloudy

DAILY WEATHER CHART OF THE NORTH PACIFIC OCEAN

(Noon of the time of 135° E.)

THE IMPERIAL MARINE OBSERVATORY KOBE JAPAN

No 53



Explanation of Symbols.

- Clear
- ☁ Cloudy
- ☉ Snow
- ⊙ Fair
- Rain
- ⊙ Fog
- ⊙ Thunderstorm
- Isobar

Wind direction is shown by arrows flying with the wind and force, on Beaufort's scale, is indicated by the number of feathers.

The materials used for preparing this chart are taken from the telegraphic reports of our stations home and abroad, the Weather Map of the Weather Bureau, Washington, the Met. Bulletin of the Weather Bureau, Manila, the Bulletin Météorologique of the Observatoire Central de L'Indochine, the Monthly Met. Bulletin of the Royal Observatory, Hongkong, the Weather Chart of the Zi-Ka-Wei Observatory and the met. logs of the Japanese merchant marine.

Station	Taihoku	Naha	Nagasaki	Siomisaki	Kobe	Tyosi	Hatidyosima	Fuzuzima	Niigata	Aomori	Nemuro	Macka	Moppo	Zyosin	Changchun	Tientsin	Tsingtau
Hour of Observation	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E
Atm. Pressure (Red. to m.s.l. and Strd. Gr.)*	763.9	764.9	766.9	763.2	764.3	762.1	762.1	762.1	764.6	761.7	761.0	761.7	770.4	768.9	772.0	776.1	775.8
Air Temperature (in C)	14.4	16.6	8.1	10.5	7.7	7.1	11.1	19.8	5.1	2.4	-8.0	-5.4	2.2	-2.6	-11.0	-	-11.4
Direction and Force of Winds (0-12)	E 4	NE 2	N 5	WNW 4	SW 3	NNW 3	W 6	NNW 2	NNW 4	WSW 3	N 3	N 3	N 7	S 3	WSW 5	NNE 3	N 5
Weather	rain	cloudy	fair	cloudy	cloudy	cloudy	clear	fair	cloudy	fair	fair	fair	clear	fair	clear	clear	clear
Station	Shanghai	Hankow	Rasa	Palau	Hongkong	Manila	Surigao	Guam	Yap	Phu-Lien	Cap-S-Jacques	Honolulu	Midway I.	Nome	Sitka	Dutch Harbor	Kodiak
Hour of Observation	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	14 ^h	14 ^h	14 ^h	14 ^h	14 ^h	10 ^h	10 ^h	20 ^h	18:30 ^h	20 ^h , 135 W	20 ^h , 135 W	20 ^h , 135 W	20 ^h , 135 W
Atm. Pressure (Red. to m.s.l. and Strd. Gr.)*	772.6	774.0	764.0	-	763.4	760.0	-	757.7	-	764.0	762.4	762.5	762.0	770.1	751.5	757.4	741.2
Air Temperature (in C)	4.2	-	20.2	-	15.	31.	-	-	-	18.	26.	22.	19.	-12.	8.	-4.	3.
Direction and Force of Winds (0-12)	NNE 4	calm	ENE 5	-	NNW 1	ENE 5	-	NE 3	-	NNE 1	ENE 5	NE 3	SE 2	N 1	SE -	N -	N -
Weather	cloudy	cloudy	fair	-	rain	fair	-	cloudy	-	cloudy	cloudy	clear	clear	clear	cloudy	cloudy	rain

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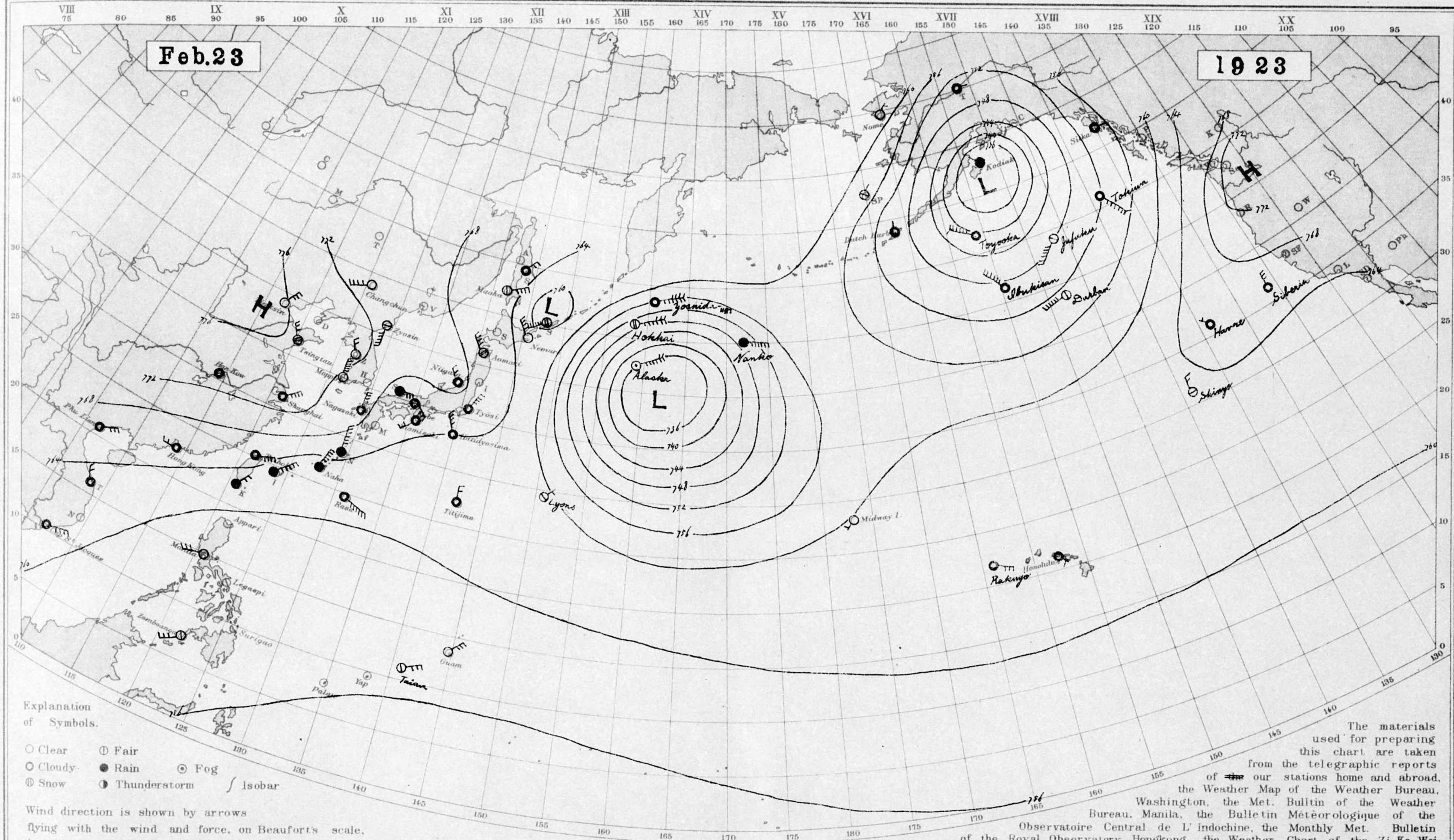
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DAILY WEATHER CHART OF THE NORTH PACIFIC OCEAN

(Noon of the time of 135° E.)

THE IMPERIAL MARINE OBSERVATORY KOBE JAPAN

No 54



Explanation of Symbols.

- Clear
- ◐ Fair
- ◑ Cloudy
- Rain
- ⊙ Fog
- ⊖ Snow
- ⊕ Thunderstorm
- Isobar

Wind direction is shown by arrows flying with the wind and force, on Beaufort's scale, is indicated by the number of feathers.

The materials used for preparing this chart are taken from the telegraphic reports of our stations home and abroad, the Weather Map of the Weather Bureau, Washington, the Met. Bulletin of the Weather Bureau, Manila, the Bulletin Météorologique of the Observatoire Central de L'Indochine, the Monthly Met. Bulletin of the Royal Observatory, Hongkong, the Weather Chart of the Zi-Ka-Wei Observatory and the met. logs of the Japanese merchant marine.

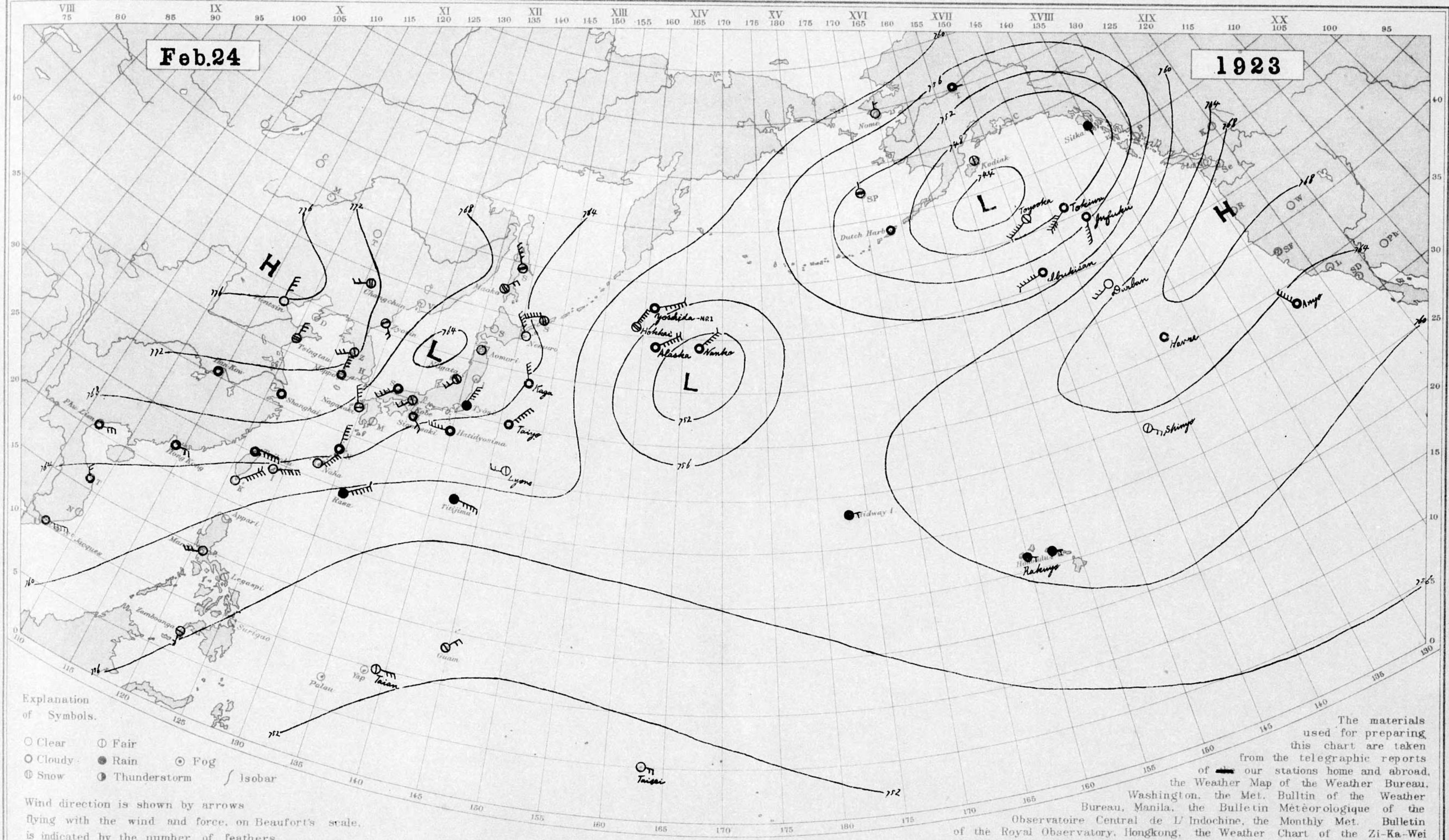
Station	Taihoku	Naha	Naga-saki	Siomisaki	Kobe	Tyosi	Hatidyosima	Tsuzima	Niigata	Aomori	Nemuro	Maoka	Moppo	Zyosin	Changchun	Tientsin	Tsingtau
Hour of Observation	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E
Atm. Pressure (Red to m.s.l. and Std. Gr. * not reduced to Std. Gr.)	766.4	762.4	768.1	764.6	766.1	765.5	764.0	762.8	768.6	767.4	763.0	765.5	771.7	768.3	771.7	776.1	774.0
Air Temperature (in C)	13.8	14.8	6.0	10.2	5.7	5.9	11.3	18.7	2.0	-0.9	-5.3	-3.9	2.0	-2.7	-14.4	-	-1.2
Direction and Force of Winds (0-12)	ENE 4	NNE 5	N 4	SW 2	SE 3	NNE 4	NNW 4	N 2	NW 2	NW 4	NW 4	ENE 4	N 6	S 5	WSW 4	NNE 3	NNW 3
Weather	cloudy	rain	cloudy	cloudy	cloudy	cloudy	cloudy	cloudy	cloudy	snow	clear	fair	clear	fair	clear	clear	snow
Station	Shanghai	Hankow	Rasa	Palau	Hongkong	Manila	Surigao	Guam	Yap	Phu-Lien	Cap-S-Jacques	Honolulu	Midway I.	Nome	Sitka	Dutch Harbor	Kodiak
Hour of Observation	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	14 ^h	14 ^h	14 ^h	14 ^h	14 ^h	10 ^h	10 ^h	20 ^h	18 : 30 ^h	20 ^h , 135 W	20 ^h , 135 W	20 ^h , 135 W	20 ^h , 135 W
Atm. Pressure (Red to m.s.l. and Std. Gr. * not reduced to Std. Gr.)	773.2	774.0	761.5	-	766.1	* 759.4	-	* 757.0	-	* 768.1	* 763.7	762.0	760.0	761.0	753.9	750.8	754.6
Air Temperature (in C)	4.7	-	20.3	-	14.	29.	-	-	-	14.	26.	22.	20.	-17.	3	-3.	1.
Direction and Force of Winds (0-12)	NE 4	calm	ESE 5	-	W 2	WSW 3	-	NE 3	-	ENE 3	ENE 4	SE 1	SW 1	NE 1	E -	N -	NW -
Weather	cloudy	cloudy	cloudy	-	cloudy	clear	-	clear	-	cloudy	cloudy	cloudy	clear	clear	cloudy	cloudy	rain

DAILY WEATHER CHART OF THE NORTH PACIFIC OCEAN

(Noon of the time of 135° E.)

THE IMPERIAL MARINE OBSERVATORY KOBE JAPAN

No. 55



Explanation of Symbols.

- Clear
- Cloudy
- Snow
- Fair
- Rain
- Fog
- Thunderstorm
- Isobar

Wind direction is shown by arrows flying with the wind and force, on Beaufort's scale, is indicated by the number of feathers.

The materials used for preparing this chart are taken from the telegraphic reports of our stations home and abroad, the Weather Map of the Weather Bureau, Washington, the Met. Bulletin of the Weather Bureau, Manila, the Bulletin Météorologique of the Observatoire Central de L'Indochine, the Monthly Met. Bulletin of the Royal Observatory, Hongkong, the Weather Chart of the Zi-Ka-Wei Observatory and the met. logs of the Japanese merchant marine.

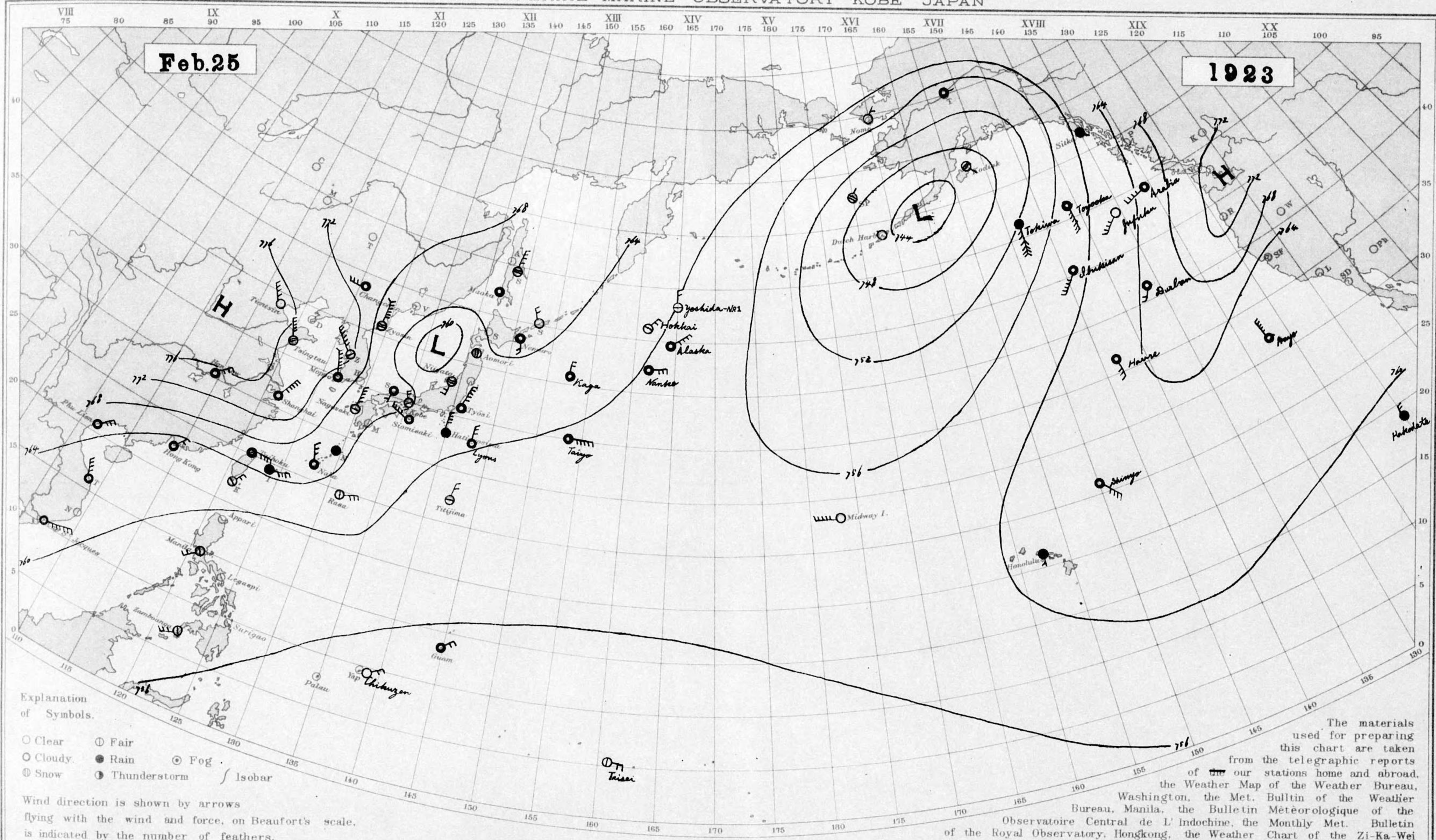
Station	Taihoku	Naha	Naga.saki	Somi.saki	Kobe	Tyosi	Hatidyosima	Tilizima	Niigata	Aomori	Nemuro	Maoka	Moppo	Zyosin	Changchun	Tientsin	Tsingtau
Hour of Observation	12 ^h , 135 ^E	12 ^h , 135 ^E	12 ^h , 135 ^E	12 ^h , 135 ^E	12 ^h , 135 ^E	12 ^h , 135 ^E	12 ^h , 135 ^E	12 ^h , 135 ^E	12 ^h , 135 ^E	12 ^h , 135 ^E	12 ^h , 135 ^E	12 ^h , 135 ^E	12 ^h , 135 ^E	12 ^h , 135 ^E	12 ^h , 135 ^E	12 ^h , 135 ^E	12 ^h , 135 ^E
Atm. Pressure (Red to m.s.l. and Strd. Gr. * not reduced to Strd. Gr.)	765.1	763.7	767.2	764.5	766.2	765.6	762.6	759.4	766.8	766.4	766.0	767.0	771.1	770.6	772.2	775.8	772.9
Air Temperature (in C)	16.3	17.6	6.5	10.9	7.3	5.9	16.0	19.9	1.1	2.2	- 2.5	- 0.3	0.1	3.7	-13.0	-	- 2.5
Direction and Force of Winds (0-12)	E 5	NNE 6	NNW 4	SE 2	SW 2	NNE 5	W 5	ESE 5	SW 2	calm	NW 5	NE 2	N 4	SE 2	WSW 2	N 4	N 3
Weather	cloudy	clear	fair	cloudy	fair	rain	cloudy	rain	snow	clear	clear	snow	cloudy	fair	snow	clear	snow
Station	Shanghai	Hankow	Rasa	Palau	Hongkong	Manila	Surigao	Guam	Yap	Phu-Lien	Cap-St-Jacques	Honolulu	Midway I.	Nome	Sitka	Dutch Harbor	Kodiak
Hour of Observation	12 ^h , 135 ^E	12 ^h , 135 ^E	12 ^h , 135 ^E	12 ^h , 135 ^E	14 ^h	14 ^h	14 ^h	14 ^h	14 ^h	10 ^h	10 ^h	20 ^h	18 : 30 ^h	20 ^h , 135 ^W	20 ^h , 135 ^W	20 ^h , 135 ^W	20 ^h , 135 ^W
Atm. Pressure (Red to m.s.l. and Strd. Gr. * not reduced to Strd. Gr.)	771.8	771.7	759.1	-	765.5	* 758.4	-	* 756.6	-	* 767.2	* 763.4	761.5	757.9	757.9	747.3	749.3	745.2
Air Temperature (in C)	5.2	-	19.1	-	15.	31.	-	-	-	16.	26.	21.	21.	-20.	4.	- 7.	- 1.
Direction and Force of Winds (0-12)	calm	calm	NE 7	-	E 2	WSW 3	-	NE 2	-	ENE 3	ENE 5	E 1	E 1	N 1	S -	calm	calm
Weather	cloudy	cloudy	rain	-	cloudy	clear	-	fair	-	cloudy	cloudy	rain	rain	clear	rain	cloudy	fair

DAILY WEATHER CHART OF THE NORTH PACIFIC OCEAN

(Noon of the time of 135° E.)

THE IMPERIAL MARINE OBSERVATORY KOBE JAPAN

No 56



Explanation of Symbols.

- Clear
- Cloudy
- ⊕ Snow
- ⊙ Fair
- Rain
- ⊙ Fog
- ⊙ Thunderstorm
- Isobar

Wind direction is shown by arrows flying with the wind and force, on Beaufort's scale, is indicated by the number of feathers.

The materials used for preparing this chart are taken from the telegraphic reports of our stations home and abroad, the Weather Map of the Weather Bureau, Washington, the Met. Bulletin of the Weather Bureau, Manila, the Bulletin Météorologique of the Observatoire Central de L'Indochine, the Monthly Met. Bulletin of the Royal Observatory, Hongkong, the Weather Chart of the Zi-Ka-Wei Observatory and the met. logs of the Japanese merchant marine.

Station	Taihoku	Naha	Nagasaki	Siomi saki	Kobe	Tyosi	Hatidyosima	Tiizima	Niigata	Aomori	Nemuro	Maoka	Moppo	Zyosin	Changchun	Tientsin	Tsingtau
Hour of Observation	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E
Atm. Pressure (Red. to m.s.l. and Std. Gr.)	767.3	764.1	766.2	763.0	765.2	760.7	760.7	759.2	763.6	763.3	766.3	765.1	769.4	767.8	771.2	777.5	775.0
Air Temperature (in C)	14.3	19.2	5.1	8.9	6.2	7.5	10.2	20.9	1.1	3.0	-1.7	-	-1.4	-11.1	-16.0	-	-6.4
Direction and Force of Winds (0-12)	E 4	NNW 3	N 5	WNW 4	NNW 2	NNE 5	N 4	NNE 2	SSW 2	calm	SSE 2	calm	NNW 7	N 7	W 3	NW 4	NNW 5
Weather	cloudy	cloudy	fair	cloudy	fair	cloudy	rain	fair	snow	snow	cloudy	cloudy	cloudy	snow	cloudy	clear	snow
Station	Shanghai	Hankow	Rosa	Palau	Hongkong	Manila	Surigao	Guam	Yap	Phu-Lien	Cap-S-Jacques	Honolulu	Midway I.	Nome	Sitka	Dutch Harbor	Kodiak
Hour of Observation	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	14 ^h	14 ^h	14 ^h	14 ^h	14 ^h	10 ^h	10 ^h	20 ^h	18 : 30 ^h	20 ^h , 135 W	20 ^h , 135 W	20 ^h , 135 W	20 ^h , 135 W
Atm. Pressure (Red. to m.s.l. and Std. Gr.)	773.8	775.9	763.6	-	763.1	760.1	-	757.2	-	767.7	763.4	760.5	757.4	757.9	761.0	744.2	747.8
Air Temperature (in C)	2.3	-	19.3	-	13.	29.	-	-	-	14.	25.	22.	16.	-21.	2.	-8.	0.
Direction and Force of Winds (0-12)	NNE 5	NE 3	ENE 3	-	NNE 2	SW 2	-	NE 2	-	NE 3	ENE 6	S 1	W 5	NE 1	SE -	calm	SE -
Weather	cloudy	cloudy	fair	-	cloudy	fair	-	cloudy	-	cloudy	cloudy	rain	clear	clear	rain	clear	snow

日五十月一年二十正大

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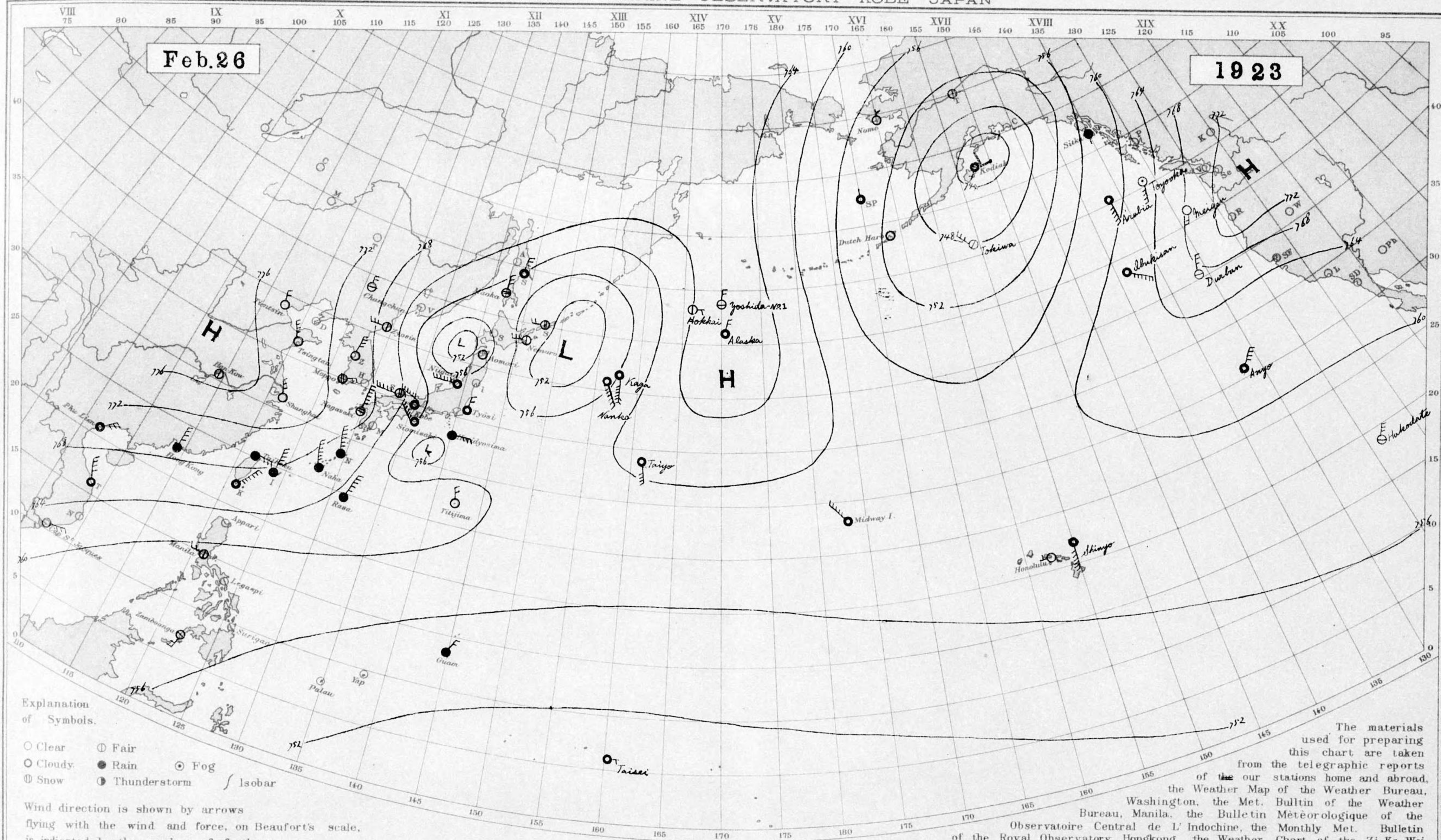
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DAILY WEATHER CHART OF THE NORTH PACIFIC OCEAN

(Noon of the time of 135° E.)

THE IMPERIAL MARINE OBSERVATORY KÔBE JAPAN

No 57



Explanation of Symbols.

- Clear
- Cloudy
- ⊙ Snow
- ⊙ Fair
- Rain
- ⊙ Fog
- ⊙ Thunderstorm
- Isobar

Wind direction is shown by arrows flying with the wind and force, on Beaufort's scale, is indicated by the number of feathers.

The materials used for preparing this chart are taken from the telegraphic reports of our stations home and abroad, the Weather Map of the Weather Bureau, Washington, the Met. Bulletin of the Weather Bureau, Manila, the Bulletin Météorologique of the Observatoire Central de L'Indochine, the Monthly Met. Bulletin of the Royal Observatory, Hongkong, the Weather Chart of the Zi-Ka-Wei Observatory and the met. logs of the Japanese merchant marine.

Station	Taihoku	Naha	Nagasaki	Siomisaki	Kôbe	Tyosi	Hatidyosma	Tilizima	Niigata	Aomori	Nemuro	Maoka	Moppo	Zyosin	Changchun	Tientsin	Tsingtau
Hour of Observation	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E
Atm. Pressure (Red. to m.s.l. and Strd. Gr.)	771.3	767.1	769.2	760.0	762.0	756.6	758.3	761.0	757.3	755.2	755.4	757.8	771.4	764.2	771.3	774.4	774.3
Air Temperature (in C)	8.9	11.2	- 1.1	7.5	2.2	5.9	8.0	20.3	1.1	3.1	- 1.6	- 1.4	- 5.0	- 8.9	- 15.6	-	- 4.0
Direction and Force of Winds (0-12)	E 3	NNW 6	N 6	NW 6	WNW 7	N 2	E 3	NNW 2	W 6	calm	W 3	N 3	ENE 2	W 3	N 2	NNW 2	NW 4
Weather	rain	rain	snow	cloudy	cloudy	cloudy	rain	clear	cloudy	clear	fair	snow	snow	fair	fair	clear	clear
Station	Shanghai	Hankow	Rasa	Palau	Hongkong	Manila	Surigao	Guam	Yap	Phu-Lien	Cap-S-Jacques	Honolulu	Midway I.	Nome	Sitka	Dutch Harbor	Kodiak
Hour of Observation	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	14 ^h	14 ^h	14 ^h	14 ^h	14 ^h	10 ^h	10 ^h	20 ^h	18 : 30 ^h	20 ^h , 135 W	20 ^h , 135 W	20 ^h , 135 W	20 ^h , 135 W
Atm. Pressure (Red. to m.s.l. and Strd. Gr.)	775.1	776.4	763.5	-	768.8	760.8	-	754.8	-	770.9	763.8	759.5	758.4	753.4	756.4	750.8	743.7
Air Temperature (in C)	0.4	-	18.6	-	9.	30.	-	-	-	13.	26.	22.	16.	22.	6.	- 7.	2.
Direction and Force of Winds (0-12)	NNW 3	calm	NNE 5	-	N 4	W 2	-	NE 2	-	NE 3	ENE 3	W 1	NW 5	N 1	S -	-	SW -
Weather	clear	fair	rain	-	rain	fair	-	rain	-	cloudy	cloudy	clear	cloudy	clear	rain	-	cloudy

日六十二月二年二十正大

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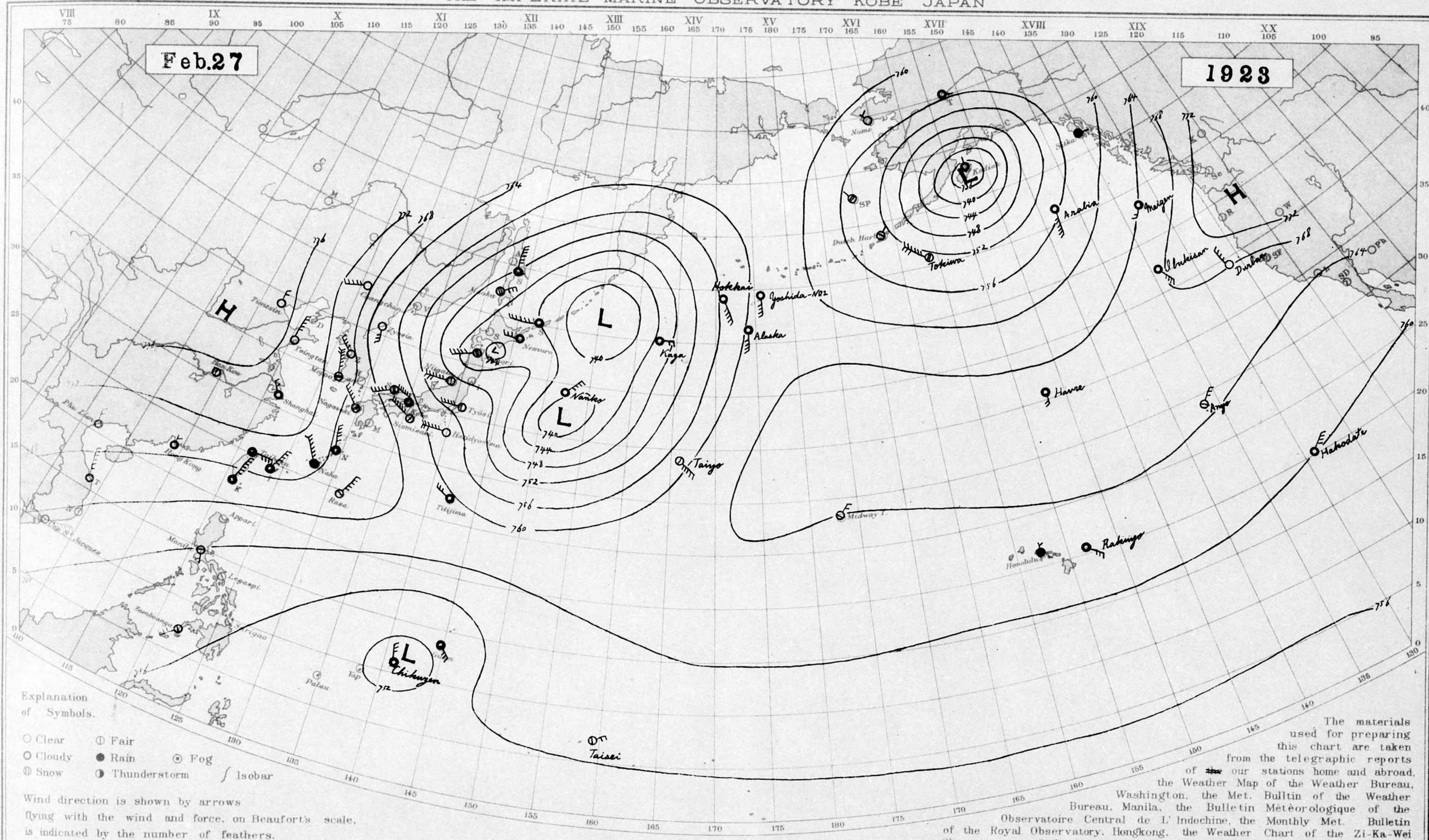
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DAILY WEATHER CHART OF THE NORTH PACIFIC OCEAN

(Noon of the time of 135° E.)

THE IMPERIAL MARINE OBSERVATORY KOBE JAPAN

No. 58



Explanation of Symbols.

- Clear
- ⊙ Fair
- ☁ Cloudy
- Rain
- ⊙ Fog
- ⊙ Snow
- ⊙ Thunderstorm
- Isobar

Wind direction is shown by arrows flying with the wind and force, on Beaufort's scale, is indicated by the number of feathers.

The materials used for preparing this chart are taken from the telegraphic reports of our stations home and abroad, the Weather Map of the Weather Bureau, Washington, the Met. Bulletin of the Weather Bureau, Manila, the Bulletin Meteorologique of the Observatoire Central de L'Indochine, the Monthly Met. Bulletin of the Royal Observatory, Hongkong, the Weather Chart of the Zi-Ka-Wei Observatory and the met. logs of the Japanese merchant marine.

Station	Taihoku	Naha	Nagasaki	Siomisaki	Kobe	Tyosii	Hatidyosima	Titizima	Niigata	Aomori	Nemuro	Maoka	Moppo	Zyosin	Changchun	Tientsin	Tsingtau
Hour of Observation	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E
Atm. Pressure (Red. to m.s.l. and Strd. Gr.)*	770.9	768.1	766.4	760.6	761.4	754.9	758.4	760.5	754.4	745.7	746.4	749.7	769.2	763.7	769.6	776.1	774.7
Air Temperature (in C)	10.5	11.8	0.5	4.0	0.8	4.6	5.8	15.1	0.7	-2.4	-3.8	-1.5	-3.7	5.0	-9.6	-	-3.7
Direction and Force of Winds (0-12)	E 4	NW 7	NW 5	WNW 7	WNW 6	W 5	W 9	WNW 3	W 9	WSW 5	W 3	NE 3	NNW 8	S 3	WSW 8	N 2	N 5
Weather	cloudy	rain	snow	fair	cloudy	fair	clear	cloudy	fair	snow	cloudy	snow	snow	clear	clear	clear	clear
Station	Shanghai	Hankow	Rasa	Palau	Hongkong	Manila	Surigao	Guam	Yap	Phu-Lien	Cap-S-Jacques	Honolulu	Midway I.	Nome	Sitka	Dutch Harbor	Kodiak
Hour of Observation	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	14 ^h	14 ^h	14 ^h	14 ^h	14 ^h	10 ^h	10 ^h	20 ^h	18:30 ^h	20 ^h , 135 W	20 ^h , 135 W	20 ^h , 135 W	20 ^h , 135 W
Atm. Pressure (Red. to m.s.l. and Strd. Gr.)*	774.3	775.0	764.5	-	770.3	761.6	-	755.1	-	772.6	763.8	761.0	764.0	757.4	758.9	763.4	755.6
Air Temperature (in C)	3.9	-	17.3	-	10.	29.	-	-	-	12.	25.	22.	14.	-23.	8.	-8.	1.
Direction and Force of Winds (0-12)	NW 2	calm	NNE 5	-	N 1	SSE 1	-	SE 3	-	NNW 2	ENE 6	N 1	NE 2	NW 1	E -	NE -	N -
Weather	cloudy	fair	fair	-	cloudy	fair	-	cloudy	-	cloudy	clear	rain	fair	clear	rain	fair	rain

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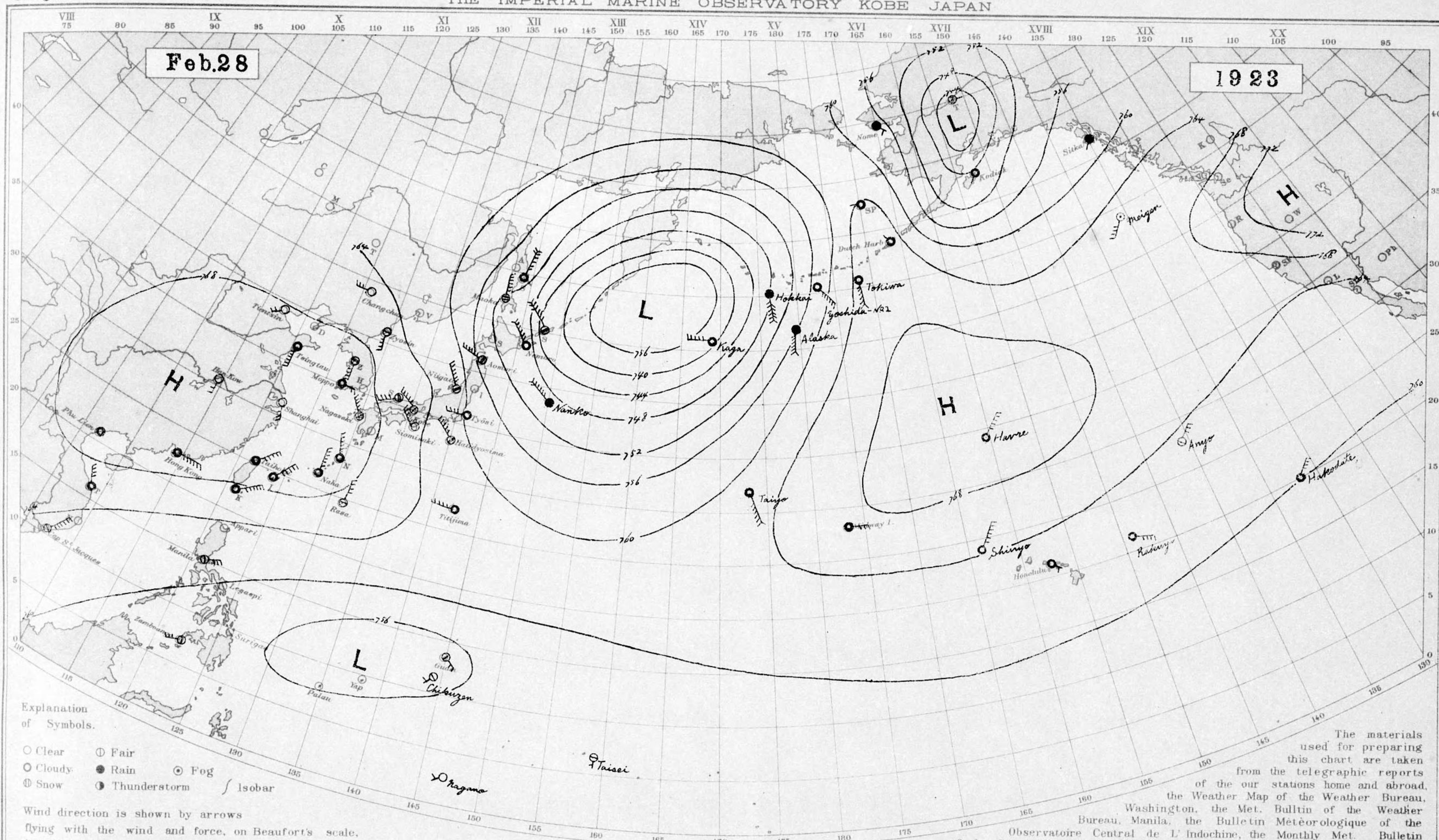
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DAILY WEATHER CHART OF THE NORTH PACIFIC OCEAN

(Noon of the time of 135° E.)

THE IMPERIAL MARINE OBSERVATORY KOBE JAPAN

No 59



Explanation of Symbols.

- Clear
- ☉ Fair
- ☁ Cloudy
- ☔ Rain
- ☁ Fog
- ❄ Snow
- ⚡ Thunderstorm
- Isobar

Wind direction is shown by arrows flying with the wind and force, on Beaufort's scale, is indicated by the number of feathers.

The materials used for preparing this chart are taken from the telegraphic reports of the our stations home and abroad, the Weather Map of the Weather Bureau, Washington, the Met. Bulletin of the Weather Bureau, Manila, the Bulletin Météorologique of the Observatoire Central de L'Indochine, the Monthly Met. Bulletin of the Royal Observatory, Hongkong, the Weather Chart of the Zi-Ka-Wei Observatory and the met. logs of the Japanese merchant marine.

Station	Taihoku	Naha	Nagasaki	Siomisaki	Kobe	Tyosi	Hatidyosima	Titizima	Niigata	Aomori	Nemuro	Maoka	Moppo	Zyosin	Changchun	Tientsin	Tsingtau
Hour of Observation	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E
Atm. Pressure (Red. to m.s.l. and Strd. Gr.)	770.5	770.3	770.1	764.8	766.3	759.2	760.5	761.3	761.6	755.7	748.7	751.5	771.4	764.4	764.9	768.4	769.4
Air Temperature (in C)	14.5	12.8	3.0	5.0	2.3	4.8	5.3	16.4	1.8	1.4	-6.5	-6.1	-1.1	-1.8	-6.6	-	-
Direction and Force of Winds (0-12)	NE 5	N 6	NW 5	NW 6	WNW 5	W 4	NW 5	W 5	NW 6	WNW 6	NW 7	N 6	ESE 2	S 4	W 3	SW 2	S 6
Weather	cloudy	cloudy	fair	clear	fair	cloudy	snow	cloudy	snow	snow	cloudy	snow	cloudy	fair	clear	clear	cloudy
Station	Shanghai	Hankow	Rasa	Palau	Hongkong	Manila	Surigao	Guam	Yap	Phu-Lien	Cap-S-Jacques	Honolulu	Midway I.	Nome	Sitka	Dutch Harbor	Kodiak
Hour of Observation	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	14 ^h	14 ^h	14 ^h	14 ^h	14 ^h	10 ^h	10 ^h	20 ^h	18 : 30 ^h	20 ^h , 135 W	20 ^h , 135 W	20 ^h , 135 W	20 ^h , 135 W
Atm. Pressure (Red. to m.s.l. and Strd. Gr.)	771.9	771.7	767.7	-	769.7	762.3	-	759.9	-	771.6	765.5	761.5	767.6	756.9	758.9	764.5	748.8
Air Temperature (in C)	8.8	-	15.5	-	15.	29.	-	-	-	15.	26.	25.	18.	3.	3.	-4.	-11.
Direction and Force of Winds (0-12)	SSE 3	S 2	N 4	-	E 6	ENE 3	-	SE 2	-	calm	NNE 6	SE 1	E 3	SE 1	SW	NW	SW
Weather	clear	clear	fair	-	cloudy	fair	-	fair	-	cloudy	fair	cloudy	cloudy	rain	rain	cloudy	cloudy

日八十月二年一十正大

圖氣天洋平大北

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DAILY WEATHER CHART OF THE NORTH PACIFIC OCEAN

(Noon of the time of 135° E.)

THE IMPERIAL MARINE OBSERVATORY KOBE JAPAN

No. Appendix: Tracks of Cyclones



Explanation of Symbols.

○ Clear ⊙ Fair ⊙ Fog
 ⊙ Cloudy ● Rain ⊙ Thunderstorm
 ⊙ Snow ⊙ Isobar

Wind direction is shown by arrows flying with the wind and force, on Beaufort's scale, is indicated by the number of feathers.

The materials used for preparing this chart are taken from the telegraphic reports of our stations home and abroad, the Weather Map of the Weather Bureau, Washington, the Met. Bulletin of the Weather Bureau, Manila, the Bulletin Météorologique of the Observatoire Central de L'Indochine, the Monthly Met. Bulletin of the Royal Observatory, Hongkong, the Weather Chart of the Zi-Ka-Wei Observatory and the met. logs of the Japanese merchant marine.

Station	Taihoku	Naha	Nagasaki	Simisaki	Kôbe	Tyosi	Haidyosima	Titizima	Niigata	Aomori	Nemuro	Maoka	Moppo	Zyosin	Changchun	Tientsin	Tsingtau
Hour of Observation	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E
Atm. Pressure (Red. to m.s.l. and Strd. Gr.)*																	
Air Temperature (in C)																	
Direction and Force of Winds (0-12)																	
Weather																	
Station	Shanghai	Hankow	Rasa	Palau	Hongkong	Manila	Surigao	Guam	Yap	Phu-Lien	Cap-S-Jacques	Honolulu	Midway I.	Nome	Sitka	Dutch Harbor	Kodiak
Hour of Observation	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	12 ^h , 135 E	14 ^h	14 ^h	14 ^h	14 ^h	14 ^h	10 ^h	10 ^h	20 ^h	18 : 30 ^h	20 ^h , 135 W	20 ^h , 135 W	20 ^h , 135 W	20 ^h , 135 E
Atm. Pressure (Red. to m.s.l. and Strd. Gr.)*						*	*	*	*	*	*						
Air Temperature (in C)																	
Direction and Force of Winds (0-12)																	
Weather																	

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