

積雪分布と気象観測資料(1)

(1991.11~1992.7)

清水増治郎¹⁾・中尾正義²⁾・
木村忠志³⁾・高見晋一⁴⁾・飯田 肇⁵⁾・宮崎伸夫⁶⁾

Snow Distribution and Meteorological Data (1) (November 1991-July 1992)

By

Masujiro SHIMIZU¹⁾, Masayoshi NAKAWO²⁾

Tadashi KIMURA³⁾, Shin'ichi TAKAMI⁴⁾, Hajime IIDA⁵⁾, and Nobuo MIYAZAKI⁶⁾

^{1),2)}Nagaoka Institute of Snow and Ice Studies 2nd Laboratory

³⁾Shinjo Branch of Snow and Ice Studies, ⁴⁾Hokuriku National Agricultural Experiment Station

⁵⁾Kurobe-Yoshida Science Museum, ⁶⁾Climate Engineering Ice.

Abstract

To examine the distribution characteristics of snow deposition in relation to meteorological conditions, nine automatic stations have been installed in the area from central Hokkaido to Toyama Prefecture, covering most of the area which has large amounts of snow accumulation in Japan. Special care was taken to have several stations located at high elevations where no snow/meteorological data have been available in the past. This report presents data from the 1991-1992 winter season obtained at these automatic stations. It was a rather warm winter, compared with an average year, and the deposited snow was relatively slight at low elevations; the maximum snow depth being ca. 1.0 m. At stations located at a little over 1000 m a.s.l., the maximum snow depth ranged from 3.3 m to 4.5 m. At Murodo (2400 m a.s.l.), the highest observation site in the Tateyama Mountains, the maximum snow depth was the greatest, as high as 6.8 m in early May when most of the snow at the other sites had already melted.

キーワード：雪分布 (Snow Distribution), 山地積雪 (Mountain Snow), 気象データ (Meteorological Data), 自動観測 (Automatic Station), 日本の積雪地域 (Snowy Area in Japan), 1991-1992 冬期 (1991-1992 Winter)

1. まえがき

我国の約半分の地域は季節的積雪地域に区分される。つまり、一年のうち 1/3 から 1/2 の期間積雪に覆われる。我国の暖地積雪地域に代表される雪氷圏周辺部では、わずかな気温上昇によって降雪は降雨に変化し、また積雪

もその融解が急速に促進される。つまり積雪はその面積や量が減少する可能性がたかい。しかし一方、温暖化が生じれば大気中の水蒸気の増加のために降水量の増加が予想されており、このため降雪量自身が増加することも考えられる。つまりわずかの気温上昇でも十分に気温が低い例えば標高の高い山岳地などでは特に、積雪量の増加が生じる事も充分にあり得る。このように、最近の全球的温暖化傾向の継続は、我国の雪分布にも大きく影響を与えるであろう事は想像に難くないものの、量的に増えるのか減るのかということさえ、予想できない現状である。このことを明らかにするためには、そのメカニズムを解明してモデル化することによって将来予測を行う必要があるが、そのためには、系統的観測を長期に亘つ

¹⁾ 長岡雪氷防災実験研究所第2研究室

²⁾ 同第2研究室(現在：名古屋大学大気水圏科学研究所)

³⁾ 新庄雪氷防災研究支所長(現在：北海道札幌郡広島町)

⁴⁾ 北陸農業試験場気象資源研究室(現在：近畿大学農学部)

⁵⁾ 黒部市吉田科学館(現在：富山県土木部砂防課)

⁶⁾ クライメットエンジニアリング

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て継続して実際の変化を検知するとともに、メカニズム解明のためのデータを取得することがまず不可欠となる。

積雪は人々の社会生活に大きく影響を及ぼしてきており、またその深さは比較的簡単に測定できるところから、人口密集地を中心に古くから積雪深の観測が行われてきている。気象庁でも、我国の積雪地域全域のアメダス観測点に自動積雪深計を配備して観測を継続してきている。しかし、積雪地域の社会的な生活用式の変化につれて積雪深だけではなく積雪水量に関する情報も求められるようになってきているにもかかわらず、積雪水量に関しては、現在でもまだ系統的な観測が行われていない状況である。

一方、我国の穀倉地帯を含む多くの地域で、夏の渇水期には冬期に蓄積された山岳地の積雪に依存しているにもかかわらず、標高 1000 m 以上の高山地帯での観測は、積雪水量どころか、積雪深や気温のような最も基本となる要素すら系統的に行われていない。最近でこそ、人工衛星の情報をもとにして、高山地域の雪情報を得ようという試みも行われるようになってきたものの、まだ実用段階には至っておらず、したがってランドトゥルスデータとして実際の現地観測は不可欠である。

そこで、北は北海道から南は（現在のところ）富山まで我国の積雪地帯をカバーするように、自動積雪・気象観測装置を配備して、降積雪の広域分布観測を実施した。観測地点の選定には、冒頭に述べた気候変化による影響を検知しやすいように、なるべく近い範囲で、低標高地と高標高地（可能な限り標高 1000 m 以上）との 2ヶ所を一对として設置できるように考慮した。この資料は、図 1 および表 1 に示した 9ヶ所で 1991 年 11 月から 1992 年 5 ないし 7 月までの冬期間に得られたデータ（表 2）をまとめたものである。

観測要素は、原則として、雪関連では積雪深にくわえて最近要望の多い積雪重量を測定し、気象要素としては、雪の変動に最も関連の深い気温に加えて、特に山岳地帯で熱収支的に役割りが大きい日射量を測定した。観測装置の設置状況を図 2 に示した。場所によっては、様々の制約で上記 4 要素の測定ができなかったところもある。また逆に、長岡雪氷防災実験研究所や新庄雪氷防災研究支所、北陸農業試験所などでは、それ以外にも多くの要素について観測を行っているが、本報告では、4 要素に限ってまとめている。

2. 観測の概要および観測方法

各観測点毎の観測項目について、その測器や測定頻度、観測統計の方法などを一覧表にしたのが表 3 である。

積雪深は赤外線反射式の自動積雪深計 (Kimura, 1975) で測定した。美瑛観測点では積雪深を観測していないため、すぐ近くの気象庁のアメダスデータを掲載してある。また、立山は国立公園内の観測であり、赤外線反射式の積雪深計の設置の許可が下りず、高橋・油川式の積雪深計 (高橋・油川, 1976) を用いて観測を継続してきた名

古屋大学のデータをいただいで掲載したものである。

積雪重量は「メタルウエファール」(木村, 1983) による自動測定値から求めた。「メタルウエファール」での観測値とスノーサンプラーによる積雪全層重量との比較の例として、奥只見での観測について示したのが表 4 である。12 月 25 日の観測を除けば、両者の間に 10% 前後の違いが認められるが、積雪深の値の違いに現われている場所の違いを考慮すれば、測定誤差は 1 割以下だと考えることができよう。

気温は白金抵抗温度計で、また日射量はネオ日射計や同様の原理で測定する熱伝堆アルベドメーターを用いて計測した。

3. 観測結果

それぞれの観測要素毎の観測結果を表 5 および図 3 に示した。表の中に 9999 で示してあるのは、観測期間を通して測定しなかった場合（未測定）や、観測装置の準備の都合などで測定できなかった場合（不測定）である。測定をしていたにもかかわらず観測装置の動作不良で測定できなかった場合には欠測として -9999 で示してある。1991-1992 年の冬期はいわゆる暖冬であり、気温が高く、総じて積雪は少ない。低標高地では最大積雪深がおおむね 1m である。標高 1000 m 程度の山岳地では 3 ないし 5 m 程度であった。しかし最も高所の観測点である標高 2400 m の立山では、最大積雪深が 6.8 m にも達した。1 月から 3 月にかけて気温が欠測となってしまったが、気温が平均的に融点よりも高くなったのは 4 月以降と考えられる。3 月以前は、気温が高かったぶん降雪量がかえって増加してその結果積雪深が大きくなった可能性もある。

謝 辞

多数の自動積雪気象観測装置を設置・維持するために、以下の方々のご援助ご協力を賜った。十勝岳・白金では北海道開発局開発建設部美瑛地域農業開発事業所計画係、美瑛観測点では美瑛町農林課農務係、月山・志津でははていや旅館の今野明美氏、奥只見では六日町営林署、妙高・笹ヶ峰では妙高高原町、立山では富山県農地林務部のご厚意のもとで土地を拝借し観測装置を設置することができたものである。特に国立公園内の設置に関しては、環境庁自然保護局の担当国立公園管理事務所の皆様のご指導ご助言のもとに設置することができた。設置後の維持管理は、長岡工業高等専門学校の佐藤和秀氏、北陸農業試験場の横山宏太郎氏、長岡技術科学大学の東信彦氏、民宿京山荘の竹田勝美氏、奥只見観光株式会社、電源開発株式会社小出電力所ほか多くのかたがたのご援助なくしては実現できなかったものである。ここに記して深甚な謝意を表したい。

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表1 積雪・気象自動観測装置設置場所一覧表

Table 1 List of the snow and meteorological stations.

| 観測点名 | 北緯 | 東経 | 標高 | 設置場所 |
|------|-------------|--------------|-------|----------------|
| 白金 | 43° 29' 16" | 142° 36' 17" | 520m | 十勝岳白金ダム管理事務所構内 |
| 美瑛 | 43° 36' 13" | 142° 29' 59" | 250m | 美瑛町農業研修所構内 |
| 志津 | 38° 29' 29" | 139° 59' 56" | 710m | 月山八合目 |
| 新庄 | 38° 47' 22" | 140° 18' 46" | 127m | 新庄雪氷研究支所構内 |
| 奥只見 | 37° 09' 21" | 139° 13' 36" | 1200m | 丸山頂上西方約1 Km |
| 長岡 | 37° 25' 23" | 138° 53' 24" | 97m | 長岡雪氷防災実験研究所構内 |
| 笹ヶ峰 | 36° 51' 54" | 138° 04' 53" | 1400m | 妙高高原笹ヶ峰国民休暇村前 |
| 高田 | 37° 06' 45" | 138° 16' 31" | 11m | 北陸農業試験所構内 |
| 立山 | 36° 34' 28" | 137° 37' 33" | 2400m | 立山自然環境保護センター構内 |

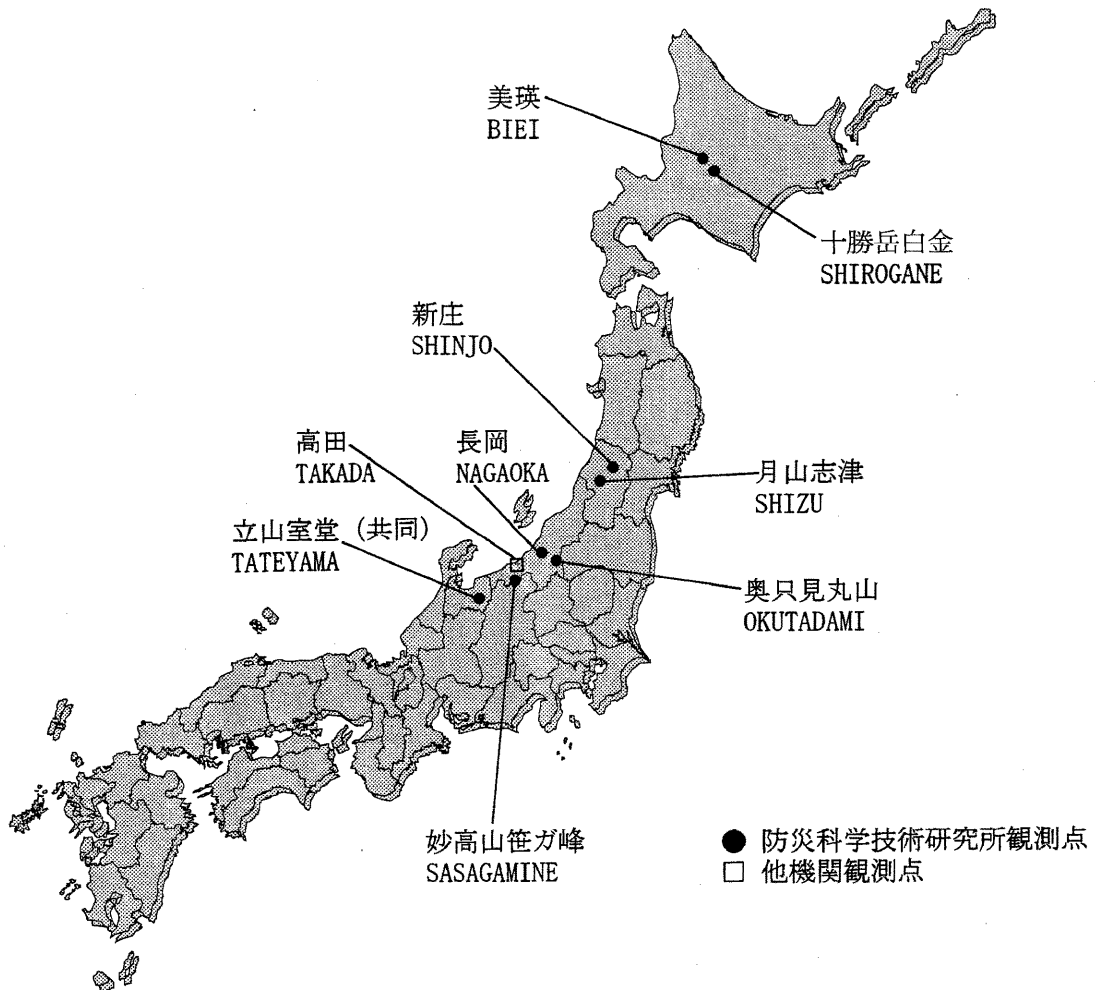


図1 積雪・気象自動観測装置配置図

Fig. 1 Location map of the snow and meteorological stations.

表2 各観測点における観測要素と測定期間

Table 2 The measured elements and the period for each observation site.

| 観測所 | 観測項目 | 観測期間(年月日) | | | | | | | | | | |
|-----|------|------------|-------|-----------|----|-------|----|----|--------------|------------|----|--|
| | | 91年 11月 | 12月 | 92年 1月 | 2月 | 3月 | 4月 | 5月 | 6月 | 7月 | | |
| 白金 | 積雪深 | 欠測 | | | | | | | | | | |
| | 積雪重量 | | | | 8 | ————— | | | | 31 | | |
| | 気温 | | | | 8 | ————— | | | | 31 | | |
| | 日射量 | 欠測 | | | | | | | | | | |
| 美瑛 | 積雪深 | 1 | ————— | | | | | | | | 31 | |
| | 積雪重量 | | | | 8 | ————— | | | | 31 | | |
| | 気温 | | | | 8 | ————— | | | | 31 | | |
| | 日射量 | | | | 8 | ————— | | | | 31 | | |
| 新庄 | 積雪深 | 26 | ————— | | | | | | 31(降積雪期のみ測定) | | | |
| | 積雪重量 | 26 | ————— | | | | | | 31(同上) | | | |
| | 気温 | 27 | ————— | | | | | 15 | | | | |
| | 日射量 | 28 | ————— | | | | | 14 | | | | |
| 志津 | 積雪深 | | 16 | — | 26 | | | | | | | |
| | 積雪重量 | | 16 | — | 26 | | | | | | | |
| | 気温 | 未測定 | | | | | | | | | | |
| | 日射量 | | 16 | — | 26 | | | | | | | |
| 長岡 | 積雪深 | 1 | ————— | | | | | | | | 31 | |
| | 積雪重量 | 1 | ————— | | | | | | | | 31 | |
| | 気温 | 1 | ————— | | | | | | | | 31 | |
| | 日射量 | 1 | ————— | | | | | | | | 31 | |
| 奥只見 | 積雪深 | | 12 | ————— | | | | | | 13(65cm以上) | | |
| | 積雪重量 | 1 | ————— | | | | | | | | 31 | |
| | 気温 | 1 | ————— | | | | | | | | 31 | |
| | 日射量 | 1 | ————— | | | | | | | | 31 | |
| 高田 | 積雪深 | 1 | ————— | | | | | | | | 31 | |
| | 積雪重量 | 1 | ————— | | | | | | | | 31 | |
| | 気温 | 1 | ————— | | | | | | | | 31 | |
| | 日射量 | 1 | ————— | | | | | | | | 31 | |
| 笹ヶ峰 | 積雪深 | 1 | ————— | | | | | | | | 31 | |
| | 積雪重量 | 1 | ————— | | | | | | | | 31 | |
| | 気温 | 1 | ————— | | | | | | | | 31 | |
| | 日射量 | 1 | ————— | | | | | | | | 31 | |
| 立山 | 積雪深 | 1 | ————— | | | | | | | | 31 | |
| | 積雪重量 | 未測定 | | | | | | | | | | |
| | 気温 | 23 | ————— | 12 | | | | 2 | ————— | 31 | | |
| | 日射量 | 未測定 | | | | | | | | | | |



図2a 十勝岳・白金の積雪・気象自動観測装置
Fig. 2a The snow and meteorological station at Shirogane.



図2b 美瑛の積雪・気象自動観測装置
Fig. 2b The snow and meteorological station at Biei.

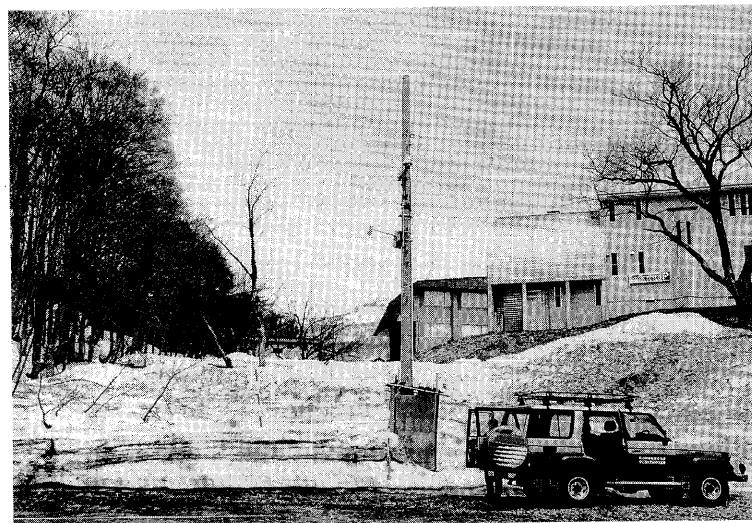


図2c 月山・志津の積雪・気象自動観測装置
Fig. 2c The snow and meteorological station at Shizu.

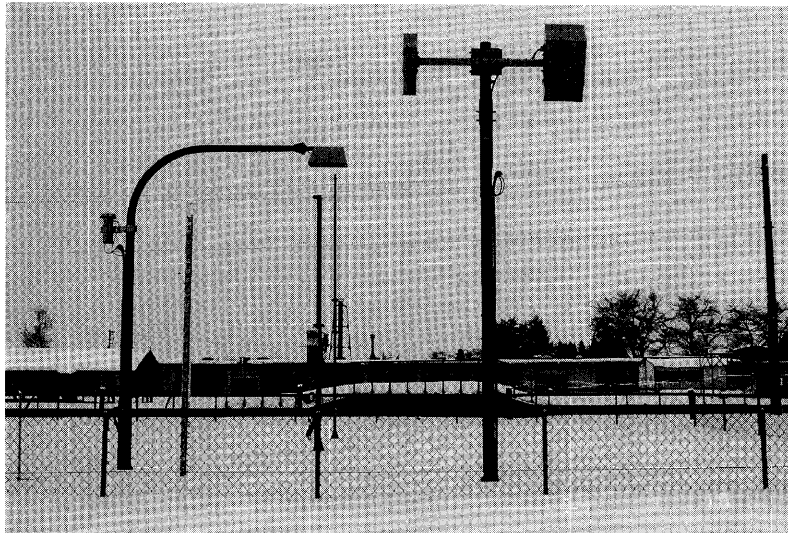


図 2 d 新庄の積雪・気象自動観測装置

Fig. 2d The snow and meteorological station at Shinjo.



図 2 e 奥只見の積雪・気象自動観測装置

Fig. 2e The snow and meteorological station at Okutadami.



図 2 f 長岡の積雪・気象自動観測装置

Fig. 2f The snow and meteorological station at Nagaoka.



図2g 妙高山・笹ガ峰の積雪・気象自動観測装置
Fig. 2g The snow and meteorological station at Sasagamine.

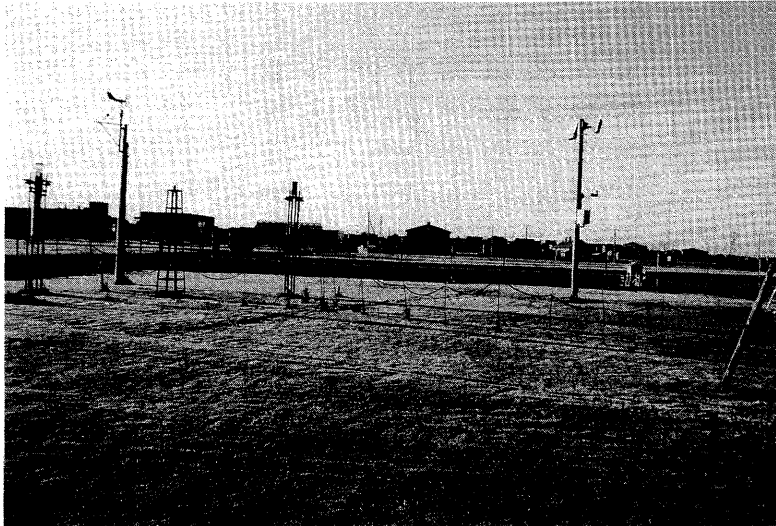


図2h 高田の積雪・気象自動観測装置
Fig.2h The snow and meteorological station at Takada.

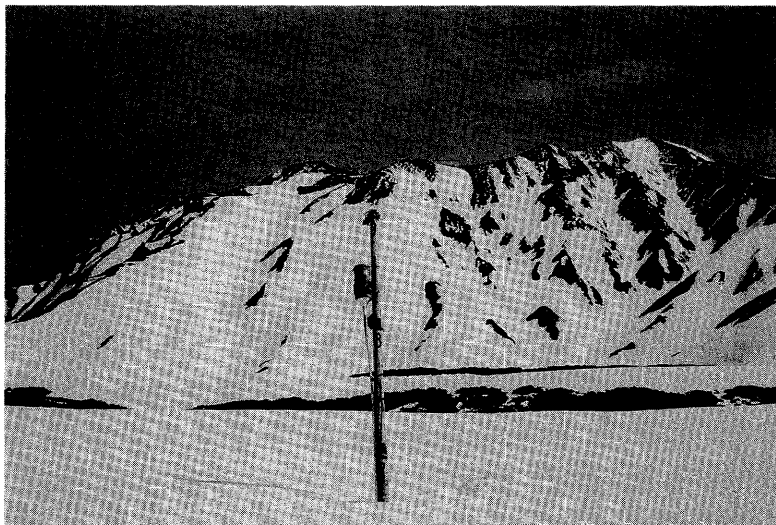


図2i 立山・室堂の積雪・気象自動観測装置
Fig. 2i The snow and meteorological station at Tateyama.

表3 統計方法および測定機器一覧

Table 3 List of the instruments and statistics.

| 観測所 | 観測項目 | 日界 | 統計方法 | 測定機器 | 単位 |
|-----|------|----|-----------------------|----------------|-------------------|
| 白金 | 積雪深 | 0時 | 1時間毎平均 | 赤外線・三角測量方式 | cm |
| | 積雪重量 | 0時 | 1時間毎平均 | メタルウェファ-式圧力ゲ-ジ | kg/m ² |
| | 気温 | 0時 | 1時間毎平均 | 自然通風白金抵抗温度計 | °C |
| | 日射量 | 0時 | 24時間積算 | ネオ日射計 | MJ/m ² |
| 美瑛 | 積雪深 | 0時 | 午前9時の値 | アメタ-ステ-タ使用 | cm |
| | 積雪重量 | 0時 | 1時間毎平均 | メタルウェファ-式圧力ゲ-ジ | kg/m ² |
| | 気温 | 0時 | 1時間毎平均 | 自然通風白金抵抗温度計 | °C |
| | 日射量 | 0時 | 6-18時積算 | ネオ日射計 | MJ/m ² |
| 新庄 | 積雪深 | 0時 | 午前9時の値 | 赤外線・三角測量方式 | cm |
| | 積雪重量 | 0時 | 午前9時の値 | メタルウェファ-式圧力ゲ-ジ | kg/m ² |
| | 気温 | 0時 | 1時間毎平均 | 通風筒付白金抵抗温度計 | °C |
| | 日射量 | 0時 | 24時間積算 | ネオ日射計 | MJ/m ² |
| 志津 | 積雪深 | 0時 | 1時間毎平均 | 超音波方式 | cm |
| | 積雪重量 | 0時 | 1時間毎平均 | メタルウェファ-式圧力ゲ-ジ | kg/m ² |
| | 気温 | - | 未測定 | - | - |
| | 日射量 | 0時 | 6-18時積算 | ネオ日射計 | MJ/m ² |
| 長岡 | 積雪深 | 0時 | 午前9時の値 | 赤外線・三角測量方式 | cm |
| | 積雪重量 | 0時 | 24時間平均 | メタルウェファ-式圧力ゲ-ジ | kg/m ² |
| | 気温 | 0時 | 24時間平均 | 通風筒付白金抵抗温度計 | °C |
| | 日射量 | 0時 | 24時間積算 | ネオ日射計 | MJ/m ² |
| 奥只見 | 積雪深 | 0時 | 午前9時の値 1h、9h、17hノ内 | 赤外線・三角測量方式 | cm |
| | 積雪重量 | 0時 | 1時間毎平均 | メタルウェファ-式圧力ゲ-ジ | kg/m ² |
| | 気温 | 0時 | 1時間毎平均 | 自然通風白金抵抗温度計 | °C |
| | 日射量 | 0時 | 24時間積算 | 熱電堆アルベルト-メ-ター | MJ/m ² |
| 高田 | 積雪深 | 0時 | 日最大値 | 赤外線・三角測量方式 | cm |
| | 積雪重量 | 0時 | 24時間平均 | メタルウェファ-式圧力ゲ-ジ | kg/m ² |
| | 気温 | 0時 | 24時間平均 | 通風筒付白金抵抗温度計 | °C |
| | 日射量 | 0時 | 24時間積算 | ネオ日射計 | MJ/m ² |
| 笹ヶ峰 | 積雪深 | 0時 | 15分毎平均 | 赤外線・三角測量方式 | cm |
| | 積雪重量 | 0時 | 15分毎平均 | メタルウェファ-式圧力ゲ-ジ | kg/m ² |
| | 気温 | 0時 | 15分毎平均 | 自然通風白金抵抗温度計 | °C |
| | 日射量 | 0時 | 24時間積算 | 熱電堆アルベルト-メ-ター | MJ/m ² |
| 立山 | 積雪深 | 0時 | 1日1回 | 油川式アクリルファイバ-深計 | cm |
| | 積雪重量 | - | 未測定 | - | - |
| | 気温 | 0時 | 30分毎平均 | 自然通風白金抵抗温度計 | °C |
| | 日射量 | - | 未測定 | - | - |

表4 メタルウエファーとスノーサンプラーによる積雪重量の比較 (奥只見観測点の例)

Table 4 Comparison of snow weight data by metal wafer and snow sampling method (an example at Okutadami).

| 測定日 | スノーサンプラーによる積雪重量 (試料採取場所の積雪深) | メタルウエファーによる積雪重量 (メタルウエファー付近の積雪深) |
|-------------|---------------------------------|-------------------------------------|
| 1991年12月25日 | 228 kg/m ² (67 cm) | 111 kg/m ² (61 cm) |
| 1992年 1月27日 | 809 kg/m ² (293 cm) | 906 kg/m ² (312 cm) |
| 3月16日 | 1371 kg/m ² (315 cm) | 1313 kg/m ² (314 cm) |
| 4月28日 | 872 kg/m ² (161 cm) | 982 kg/m ² (164 cm) |

表5-1-1 積雪深 (1991年11月)

Table 5-1-1 Show depth (November 1991)

9999:未測定・不測定 / -9999:欠測

| 年 月日 | 白金 | 美瑛 | 新庄 | 志津 | 長岡 | 奥只見 | 高田 | 笹ヶ峰 | 立山 |
|------------|-----------|---------|---------|----------|---------|-----------|----------|------------|----------|
| | SHIROGANE | BIEI | SHINJO | SHIZU | NAGAOKA | OKUTADAMI | TAKADA | SASAGAMINE | TATEYAMA |
| | cm (Ave) | cm (9h) | cm (9h) | cm (Ave) | cm (9h) | cm (9h) | cm (Max) | cm (Ave) | cm |
| 1991 11.01 | -9999 | | 9999 | -9999 | 0 | -9999 | 0 | -0 | 0 |
| 11.02 | -9999 | | 9999 | -9999 | 0 | -9999 | 0 | 0 | 0 |
| 11.03 | -9999 | | 9999 | -9999 | 0 | -9999 | 0 | 0 | 0 |
| 11.04 | -9999 | | 9999 | -9999 | 0 | -9999 | 0 | -0 | 0 |
| 11.05 | -9999 | 14 | 9999 | -9999 | 0 | -9999 | 0 | -0 | 0 |
| 11.06 | -9999 | 15 | 9999 | -9999 | 0 | -9999 | 0 | 0 | 0 |
| 11.07 | -9999 | 3 | 9999 | -9999 | 0 | -9999 | 0 | 1 | 0 |
| 11.08 | -9999 | | 9999 | -9999 | 0 | -9999 | 0 | 0 | 0 |
| 11.09 | -9999 | | 9999 | -9999 | 0 | -9999 | 0 | -0 | 0 |
| 11.10 | -9999 | | 9999 | -9999 | 0 | -9999 | 0 | -0 | 0 |
| 11.11 | -9999 | | 9999 | -9999 | 0 | -9999 | 0 | -0 | 0 |
| 11.12 | -9999 | 7 | 9999 | -9999 | 0 | -9999 | 0 | 0 | 0 |
| 11.13 | -9999 | 13 | 9999 | -9999 | 0 | -9999 | 0 | 0 | 0 |
| 11.14 | -9999 | 7 | 9999 | -9999 | 0 | -9999 | 0 | -0 | 8 |
| 11.15 | -9999 | 7 | 9999 | -9999 | 0 | -9999 | 0 | 0 | 20 |
| 11.16 | -9999 | 15 | 9999 | -9999 | 0 | -9999 | 0 | 0 | 20 |
| 11.17 | -9999 | 8 | 9999 | -9999 | 0 | -9999 | 0 | 1 | 20 |
| 11.18 | -9999 | 1 | 9999 | -9999 | 0 | -9999 | 0 | 0 | 20 |
| 11.19 | -9999 | | 9999 | -9999 | 0 | -9999 | 0 | 0 | 20 |
| 11.20 | -9999 | 2 | 9999 | -9999 | 0 | -9999 | 0 | 22 | 28 |
| 11.21 | -9999 | 8 | 9999 | -9999 | 0 | -9999 | 0 | 30 | 80 |
| 11.22 | -9999 | 5 | 9999 | -9999 | 0 | -9999 | 0 | 24 | 80 |
| 11.23 | -9999 | | 9999 | -9999 | 0 | -9999 | 0 | 17 | 76 |
| 11.24 | -9999 | | 9999 | -9999 | 0 | -9999 | 37 | 15 | 100 |
| 11.25 | -9999 | 10 | 9999 | -9999 | 0 | 84 | 0 | 35 | 108 |
| 11.26 | -9999 | 6 | 0 | -9999 | 0 | 66 | 0 | 27 | 104 |
| 11.27 | -9999 | 2 | 0 | -9999 | 0 | 69 | 0 | 19 | 100 |
| 11.28 | -9999 | | 1 | -9999 | 0 | -9999 | 0 | 11 | 88 |
| 11.29 | -9999 | | 1 | -9999 | 0 | -9999 | 0 | 5 | 72 |
| 11.30 | -9999 | | 1 | -9999 | 0 | -9999 | 0 | 4 | 72 |

表5-1-2 積雪深 (1991年12月)
Table 5-1-2 Snow depth (December 1991)

9999:未測定・不測定 / -9999:欠測

| 年 月日 | 白金 | 美瑛 | 新庄 | 志津 | 長岡 | 奥只見 | 高田 | 笹ヶ峰 | 立山 |
|-------------|-----------|---------|---------|----------|---------|-----------|----------|------------|----------|
| | SHIROGANE | BIEI | SHINJO | SHIZU | NAGAOKA | OKUTADAMI | TAKADA | SASAGAMINE | TATEYAMA |
| | cm (Ave) | cm (9h) | cm (9h) | cm (Ave) | cm (9h) | cm (9h) | cm (Max) | cm (Ave) | cm |
| 1991 12. 01 | -9999 | | 0 | -9999 | 0 | -9999 | 0 | 3 | 68 |
| 12. 02 | -9999 | | 1 | -9999 | 0 | -9999 | 0 | 3 | 68 |
| 12. 03 | -9999 | | 0 | -9999 | 0 | -9999 | 0 | 3 | 72 |
| 12. 04 | -9999 | | 0 | -9999 | 0 | -9999 | 0 | 1 | 80 |
| 12. 05 | -9999 | | 0 | -9999 | 0 | -9999 | 0 | 2 | 76 |
| 12. 06 | -9999 | | 0 | -9999 | 0 | -9999 | 0 | 1 | 80 |
| 12. 07 | -9999 | 5 | 0 | -9999 | 0 | -9999 | 0 | 1 | 80 |
| 12. 08 | -9999 | 1 | 3 | -9999 | 0 | -9999 | 0 | 3 | 80 |
| 12. 09 | -9999 | 1 | 2 | -9999 | 0 | -9999 | 0 | 27 | 104 |
| 12. 10 | -9999 | 4 | 5 | -9999 | 1 | -9999 | 0 | 46 | 104 |
| 12. 11 | -9999 | 4 | 3 | -9999 | 0 | -9999 | 0 | 38 | 104 |
| 12. 12 | -9999 | 3 | 3 | -9999 | 9 | 75 | 8 | 81 | 132 |
| 12. 13 | -9999 | 8 | 15 | -9999 | 26 | 127 | 10 | 95 | 136 |
| 12. 14 | -9999 | 6 | 11 | -9999 | 13 | 107 | 2 | 75 | 140 |
| 12. 15 | -9999 | 5 | 5 | -9999 | 1 | 98 | 0 | 65 | 140 |
| 12. 16 | -9999 | 5 | 4 | 41 | 0 | 98 | 0 | 62 | 140 |
| 12. 17 | -9999 | 2 | 2 | 39 | 0 | 84 | 0 | 56 | 136 |
| 12. 18 | -9999 | 18 | 2 | 35 | 0 | 66 | 0 | 46 | 152 |
| 12. 19 | -9999 | 19 | 2 | 38 | 0 | 66 | 0 | 44 | 152 |
| 12. 20 | -9999 | 19 | 1 | 47 | 0 | 75 | 0 | 64 | 152 |
| 12. 21 | -9999 | 22 | 0 | 43 | 0 | 81 | 0 | 56 | 152 |
| 12. 22 | -9999 | 13 | 1 | 37 | 0 | 69 | 0 | 51 | 140 |
| 12. 23 | -9999 | 14 | 0 | 35 | 0 | 66 | 0 | 48 | 144 |
| 12. 24 | -9999 | 19 | 0 | 31 | 0 | 65 | 0 | 43 | 152 |
| 12. 25 | -9999 | 15 | 0 | 30 | 0 | 61 | 0 | 41 | 152 |
| 12. 26 | -9999 | 15 | 0 | 31 | 0 | 66 | 0 | 45 | 160 |
| 12. 27 | -9999 | 15 | 0 | 75 | 0 | 69 | 0 | 46 | 160 |
| 12. 28 | -9999 | 14 | 4 | 46 | 0 | 66 | 0 | 55 | 168 |
| 12. 29 | -9999 | 17 | 6 | 61 | 0 | 127 | 0 | 115 | 236 |
| 12. 30 | -9999 | 16 | 13 | 76 | 9 | 188 | 1 | 151 | 288 |
| 12. 31 | -9999 | 23 | 14 | 71 | 14 | 190 | 0 | 149 | 272 |

表5-1-3 積雪深 (1992年1月)
Table 5-1-3 Snow depth (January 1992)

9999:未測定・不測定 / -9999:欠測

| 年 月日 | 白金 | 美瑛 | 新庄 | 志津 | 長岡 | 奥只見 | 高田 | 笹ヶ峰 | 立山 |
|------------|-----------|---------|---------|----------|---------|-----------|----------|------------|----------|
| | SHIROGANE | BIEI | SHINJO | SHIZU | NAGAOKA | OKUTADAMI | TAKADA | SASAGAMINE | TATEYAMA |
| | cm (Ave) | cm (9h) | cm (9h) | cm (Ave) | cm (9h) | cm (9h) | cm (Max) | cm (Ave) | cm |
| 1992 01.01 | -9999 | 20 | 11 | 69 | 7 | 175 | 0 | 131 | 272 |
| 01.02 | -9999 | 18 | 8 | 68 | 4 | 170 | 0 | 121 | 280 |
| 01.03 | -9999 | 17 | 7 | 68 | 0 | 162 | 0 | 115 | 272 |
| 01.04 | -9999 | 20 | 8 | 76 | 1 | 181 | 0 | 114 | 280 |
| 01.05 | -9999 | 26 | 6 | 85 | 0 | 180 | 0 | 109 | 272 |
| 01.06 | -9999 | 24 | 9 | 86 | 0 | 178 | 0 | 110 | 268 |
| 01.07 | -9999 | 22 | 11 | 86 | 0 | 181 | 0 | 117 | 288 |
| 01.08 | -9999 | 22 | 4 | 81 | 0 | 180 | 0 | 113 | 300 |
| 01.09 | -9999 | 26 | 2 | 81 | 0 | 185 | 0 | 112 | 300 |
| 01.10 | -9999 | 25 | 2 | 130 | 1 | 193 | 0 | 136 | 328 |
| 01.11 | -9999 | 24 | 2 | 91 | 0 | 195 | 0 | 137 | 316 |
| 01.12 | -9999 | 24 | 0 | 87 | 0 | 190 | 0 | 129 | 304 |
| 01.13 | -9999 | 23 | 0 | 82 | 0 | 180 | 0 | 123 | 304 |
| 01.14 | -9999 | 32 | 4 | 96 | 2 | 195 | 0 | 154 | 336 |
| 01.15 | -9999 | 30 | 12 | 104 | 7 | 210 | 0 | 166 | 336 |
| 01.16 | -9999 | 27 | 7 | 98 | 3 | 202 | 0 | 152 | 336 |
| 01.17 | -9999 | 27 | 5 | 95 | 0 | 199 | 0 | 143 | 320 |
| 01.18 | -9999 | 36 | 13 | 121 | 8 | 222 | 17 | 184 | 364 |
| 01.19 | -9999 | 42 | 34 | 133 | 21 | 311 | 24 | 223 | 408 |
| 01.20 | -9999 | 38 | 56 | 142 | 28 | 319 | 26 | 199 | 404 |
| 01.21 | -9999 | 41 | 45 | 135 | 24 | 305 | 18 | 186 | 396 |
| 01.22 | -9999 | 41 | 47 | 132 | 21 | 288 | 14 | 182 | 384 |
| 01.23 | -9999 | 44 | 51 | 148 | 35 | 330 | 55 | 210 | 428 |
| 01.24 | -9999 | 45 | 66 | 156 | 47 | 359 | 55 | 230 | 444 |
| 01.25 | -9999 | 42 | 59 | 156 | 56 | 343 | 55 | 211 | 444 |
| 01.26 | -9999 | 39 | 63 | 164 | 30 | 326 | 38 | 199 | 456 |
| 01.27 | -9999 | 40 | 53 | -9999 | 22 | 312 | 28 | 191 | 444 |
| 01.28 | -9999 | 47 | 54 | -9999 | 17 | 320 | 20 | 187 | 460 |
| 01.29 | -9999 | 46 | 58 | -9999 | 13 | 317 | 16 | 193 | 472 |
| 01.30 | -9999 | 44 | 57 | -9999 | 10 | 316 | 10 | 201 | 496 |
| 01.31 | -9999 | 43 | 54 | -9999 | 9 | 313 | 12 | 193 | 488 |

表5-1-4 積雪深 (1992年2月)

Table 5-1-4 Snow depth (February 1992)

9999:未測定・不測定 / -9999:欠測

| 年 月日 | 白金 | 美瑛 | 新庄 | 志津 | 長岡 | 奥只見 | 高田 | 笹ヶ峰 | 立山 |
|------------|-----------|---------|---------|----------|---------|-----------|----------|------------|----------|
| | SHIROGANE | BIEI | SHINJO | SHIZU | NAGAOKA | OKUTADAMI | TAKADA | SASAGAMINE | TATEYAMA |
| | cm (Ave) | cm (9h) | cm (9h) | cm (Ave) | cm (9h) | cm (9h) | cm (Max) | cm (Ave) | cm |
| 1992 02.01 | -9999 | 42 | 60 | -9999 | 38 | 350 | 30 | 243 | 488 |
| 02.02 | -9999 | 40 | 70 | -9999 | 43 | 369 | 30 | 262 | 488 |
| 02.03 | -9999 | 42 | 64 | -9999 | 39 | 352 | 21 | 241 | 484 |
| 02.04 | -9999 | 43 | 60 | -9999 | 23 | 334 | 16 | 224 | 500 |
| 02.05 | -9999 | 42 | 64 | -9999 | 23 | 339 | 16 | 220 | 508 |
| 02.06 | -9999 | 42 | 57 | -9999 | 33 | 337 | 17 | 209 | 504 |
| 02.07 | -9999 | 41 | 67 | -9999 | 20 | 327 | 13 | 220 | 500 |
| 02.08 | -9999 | 45 | 69 | -9999 | 40 | 350 | 43 | 226 | 528 |
| 02.09 | -9999 | 44 | 67 | -9999 | 49 | 352 | 43 | 241 | 528 |
| 02.10 | -9999 | 46 | 65 | -9999 | 44 | 342 | 34 | 225 | 524 |
| 02.11 | -9999 | 56 | 78 | -9999 | 33 | 357 | 2 | 255 | 548 |
| 02.12 | -9999 | 51 | 70 | -9999 | 31 | 341 | 21 | 241 | 540 |
| 02.13 | -9999 | 52 | 69 | -9999 | 28 | 339 | 19 | 231 | 532 |
| 02.14 | -9999 | 48 | 66 | -9999 | 27 | 351 | 15 | 230 | 572 |
| 02.15 | -9999 | 50 | 72 | -9999 | 26 | 345 | 15 | 225 | 564 |
| 02.16 | -9999 | 55 | 65 | -9999 | 23 | 333 | 11 | 220 | 544 |
| 02.17 | -9999 | 68 | 74 | -9999 | 31 | 363 | 10 | 247 | 580 |
| 02.18 | -9999 | 66 | 70 | -9999 | 27 | 358 | 7 | 233 | 576 |
| 02.19 | -9999 | 66 | 84 | -9999 | 41 | 374 | 9 | 260 | 604 |
| 02.20 | -9999 | 69 | 88 | -9999 | 46 | 402 | 30 | 263 | 584 |
| 02.21 | -9999 | 67 | 88 | -9999 | 37 | 386 | 34 | 259 | 584 |
| 02.22 | -9999 | 67 | 90 | -9999 | 57 | -9999 | 41 | 289 | 588 |
| 02.23 | -9999 | 73 | 90 | -9999 | 60 | 450 | 45 | 286 | 620 |
| 02.24 | -9999 | 65 | 82 | -9999 | 52 | 429 | 31 | 278 | 616 |
| 02.25 | -9999 | 62 | 83 | -9999 | 50 | 426 | 28 | 322 | 656 |
| 02.26 | -9999 | 62 | 92 | -9999 | 57 | 437 | 30 | 332 | 672 |
| 02.27 | -9999 | 62 | 85 | -9999 | 49 | 427 | 22 | 304 | 656 |
| 02.28 | -9999 | 61 | 81 | -9999 | 37 | 421 | 10 | 286 | 644 |
| 02.29 | -9999 | 60 | 76 | -9999 | 30 | 402 | 4 | 262 | 644 |

表5-1-5 積雪深 (1992年3月)
Table 5-1-5 Snow depth (March 1992)

9999:未測定・不測定 / -9999:欠測

| 年 月日 | 白金 | 美瑛 | 新庄 | 志津 | 長岡 | 奥只見 | 高田 | 笹ヶ峰 | 立山 |
|------------|-----------|---------|---------|----------|---------|-----------|----------|------------|----------|
| | SHIROGANE | BIEI | SHINJO | SHIZU | NAGAOKA | OKUTADAMI | TAKADA | SASAGAMINE | TATEYAMA |
| | cm (Ave) | cm (9h) | cm (9h) | cm (Ave) | cm (9h) | cm (9h) | cm (Max) | cm (Ave) | cm |
| 1992 03.01 | -9999 | 56 | 72 | -9999 | 22 | 371 | 0 | 236 | 628 |
| 03.02 | -9999 | 60 | 67 | -9999 | 19 | 363 | 0 | 230 | 612 |
| 03.03 | -9999 | 60 | 66 | -9999 | 21 | 355 | 4 | 226 | 600 |
| 03.04 | -9999 | 60 | 66 | -9999 | 20 | 361 | 4 | 224 | 588 |
| 03.05 | -9999 | 60 | 65 | -9999 | 15 | 352 | 0 | 220 | 584 |
| 03.06 | -9999 | 61 | 75 | -9999 | 11 | 346 | 0 | 226 | 592 |
| 03.07 | -9999 | 61 | 70 | -9999 | 9 | 344 | 0 | 248 | 616 |
| 03.08 | -9999 | 63 | 70 | -9999 | 6 | 338 | 0 | 239 | 608 |
| 03.09 | -9999 | 58 | 67 | -9999 | 0 | 337 | 0 | 231 | 600 |
| 03.10 | -9999 | 58 | 62 | -9999 | 0 | 340 | 0 | 224 | 604 |
| 03.11 | -9999 | 56 | 59 | -9999 | 0 | 341 | 0 | 220 | 600 |
| 03.12 | -9999 | 55 | 56 | -9999 | 0 | 338 | 0 | 217 | 600 |
| 03.13 | -9999 | 55 | 52 | -9999 | 0 | 338 | 0 | 214 | 596 |
| 03.14 | -9999 | 52 | 46 | -9999 | 0 | 328 | 0 | 211 | 592 |
| 03.15 | -9999 | 48 | 38 | -9999 | 0 | 330 | 0 | 206 | 600 |
| 03.16 | -9999 | 47 | 35 | -9999 | 0 | 314 | 0 | 202 | 608 |
| 03.17 | -9999 | 45 | 31 | -9999 | 0 | 326 | 1 | 201 | 608 |
| 03.18 | -9999 | 41 | 27 | -9999 | 0 | 314 | 0 | 206 | 604 |
| 03.19 | -9999 | 38 | 36 | -9999 | 0 | 320 | 0 | 205 | 604 |
| 03.20 | -9999 | 40 | 28 | -9999 | 0 | 316 | 0 | 203 | 604 |
| 03.21 | -9999 | 39 | 40 | -9999 | 12 | 331 | 8 | 221 | 620 |
| 03.22 | -9999 | 40 | 49 | -9999 | 25 | -9999 | 4 | 236 | 628 |
| 03.23 | -9999 | 38 | 37 | -9999 | 13 | -9999 | 0 | 227 | 628 |
| 03.24 | -9999 | 36 | 33 | -9999 | 6 | 338 | 0 | 223 | 632 |
| 03.25 | -9999 | 34 | 24 | -9999 | 0 | 326 | 1 | 209 | 632 |
| 03.26 | -9999 | 38 | 20 | -9999 | 0 | 320 | 0 | 205 | 632 |
| 03.27 | -9999 | 32 | 12 | -9999 | 0 | 316 | 0 | 204 | 632 |
| 03.28 | -9999 | 29 | 8 | -9999 | 0 | 319 | 0 | 202 | 628 |
| 03.29 | -9999 | 25 | 0 | -9999 | 0 | 314 | 0 | 199 | 628 |
| 03.30 | -9999 | 21 | 0 | -9999 | 0 | 301 | 0 | 196 | 640 |
| 03.31 | -9999 | 18 | 0 | -9999 | 0 | 295 | 0 | 196 | 652 |

表5-1-6 積雪深 (1992年4月)

Table 5-1-6 Snow depth (April 1992)

| | | 9999:未測定・不測定 / -9999:欠測 | | | | | | | | |
|------|-------|-------------------------|---------|---------|----------|---------|-----------|----------|------------|----------|
| | | 白金 | 美瑛 | 新庄 | 志津 | 長岡 | 奥只見 | 高田 | 笹ヶ峰 | 立山 |
| | | SHIROGANE | BIEI | SHINJO | SHIZU | NAGAOKA | OKUTADAMI | TAKADA | SASAGAMINE | TATEYAMA |
| 年 | 月日 | cm (Ave) | cm (9h) | cm (9h) | cm (Ave) | cm (9h) | cm (9h) | cm (Max) | cm (Ave) | cm |
| 1992 | 04.01 | -9999 | 13 | 0 | -9999 | 0 | 288 | 0 | 191 | 652 |
| | 04.02 | -9999 | 8 | 0 | -9999 | 0 | 279 | 0 | 185 | 628 |
| | 04.03 | -9999 | 1 | 0 | -9999 | 0 | 272 | 0 | 181 | 624 |
| | 04.04 | -9999 | | 0 | -9999 | 0 | 266 | 0 | 175 | 624 |
| | 04.05 | -9999 | | 0 | -9999 | 0 | 261 | 0 | 171 | 632 |
| | 04.06 | -9999 | | 0 | -9999 | 0 | 256 | 0 | 167 | 632 |
| | 04.07 | -9999 | | 0 | -9999 | 0 | 245 | 0 | 162 | 632 |
| | 04.08 | -9999 | | 0 | -9999 | 0 | 245 | 0 | 158 | 620 |
| | 04.09 | -9999 | | 0 | -9999 | 0 | 237 | 0 | 153 | 624 |
| | 04.10 | -9999 | | 0 | -9999 | 0 | 229 | 0 | 150 | 624 |
| | 04.11 | -9999 | | 0 | -9999 | 0 | 226 | 0 | 146 | 624 |
| | 04.12 | -9999 | | 0 | -9999 | 0 | 227 | 0 | 145 | 624 |
| | 04.13 | -9999 | | 0 | -9999 | 0 | 237 | 0 | 146 | 628 |
| | 04.14 | -9999 | | 0 | -9999 | 0 | 249 | 0 | 146 | 648 |
| | 04.15 | -9999 | | 0 | -9999 | 0 | 245 | 0 | 141 | 644 |
| | 04.16 | -9999 | | 0 | -9999 | 0 | 232 | 0 | 136 | 632 |
| | 04.17 | -9999 | | 0 | -9999 | 0 | 232 | 0 | 132 | 640 |
| | 04.18 | -9999 | | 0 | -9999 | 0 | 230 | 0 | 127 | 640 |
| | 04.19 | -9999 | | 0 | -9999 | 0 | 223 | 0 | 122 | 640 |
| | 04.20 | -9999 | | 0 | -9999 | 0 | 218 | 0 | 118 | 656 |
| | 04.21 | -9999 | | 0 | -9999 | 0 | 212 | 0 | 113 | 652 |
| | 04.22 | -9999 | | 0 | -9999 | 0 | 209 | 0 | 113 | 648 |
| | 04.23 | -9999 | | 0 | -9999 | 0 | 196 | 0 | 103 | 648 |
| | 04.24 | -9999 | | 0 | -9999 | 0 | 193 | 0 | 97 | 648 |
| | 04.25 | -9999 | | 0 | -9999 | 0 | 183 | 0 | 91 | 656 |
| | 04.26 | -9999 | | 0 | -9999 | 0 | 185 | 0 | 86 | 656 |
| | 04.27 | -9999 | | 0 | -9999 | 0 | 173 | 0 | 79 | 652 |
| | 04.28 | -9999 | | 0 | -9999 | 0 | 164 | 0 | 71 | 644 |
| | 04.29 | -9999 | | 0 | -9999 | 0 | 153 | 0 | 63 | 632 |
| | 04.30 | -9999 | | 0 | -9999 | 0 | 157 | 0 | 59 | 632 |

表5-1-7 積雪深 (1992年5月)

Table 5-1-7 Snow depth (May 1992)

9999:未測定・不測定 / -9999:欠測

| 年 月日 | 白金 | 美瑛 | 新庄 | 志津 | 長岡 | 奥只見 | 高田 | 笹ヶ峰 | 立山 |
|------------|-----------|---------|---------|----------|---------|-----------|----------|------------|----------|
| | SHIROGANE | BIEI | SHINJO | SHIZU | NAGAOKA | OKUTADAMI | TAKADA | SASAGAMINE | TATEYAMA |
| | cm (Ave) | cm (9h) | cm (9h) | cm (Ave) | cm (9h) | cm (9h) | cm (Max) | cm (Ave) | cm |
| 1992 05.01 | -9999 | 0 | 0 | -9999 | 0 | 157 | 0 | 74 | 672 |
| 05.02 | -9999 | 0 | 0 | -9999 | 0 | 157 | 0 | 66 | 668 |
| 05.03 | -9999 | 0 | 0 | -9999 | 0 | 151 | 0 | 59 | 668 |
| 05.04 | -9999 | 0 | 0 | -9999 | 0 | 142 | 0 | 54 | 672 |
| 05.05 | -9999 | 0 | 0 | -9999 | 0 | 147 | 0 | 50 | 680 |
| 05.06 | -9999 | 0 | 0 | -9999 | 0 | 139 | 0 | 45 | 680 |
| 05.07 | -9999 | 0 | 0 | -9999 | 0 | 137 | 0 | 39 | 664 |
| 05.08 | -9999 | 0 | 0 | -9999 | 0 | 120 | 0 | 30 | 632 |
| 05.09 | -9999 | 0 | 0 | -9999 | 0 | 109 | 0 | 18 | 584 |
| 05.10 | -9999 | 0 | 0 | -9999 | 0 | 98 | 0 | 9 | 580 |
| 05.11 | -9999 | 0 | 0 | -9999 | 0 | 100 | 0 | 4 | 560 |
| 05.12 | -9999 | 0 | 0 | -9999 | 0 | 89 | 0 | -0 | 552 |
| 05.13 | -9999 | 0 | 0 | -9999 | 0 | 78 | 0 | -0 | 548 |
| 05.14 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | -0 | 524 |
| 05.15 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | -0 | 524 |
| 05.16 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | -0 | 504 |
| 05.17 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | -0 | 500 |
| 05.18 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | -0 | 500 |
| 05.19 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | -0 | 496 |
| 05.20 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 484 |
| 05.21 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 480 |
| 05.22 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 476 |
| 05.23 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 480 |
| 05.24 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 508 |
| 05.25 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 508 |
| 05.26 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 508 |
| 05.27 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 512 |
| 05.28 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 512 |
| 05.29 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 504 |
| 05.30 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 500 |
| 05.31 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 492 |

表5-1-8 積雪深 (1992年6月)
Table 5-1-8 Snow depth (June 1992)

9999:未測定・不測定 / -9999:欠測

| 年 月日 | 白金 | 美瑛 | 新庄 | 志津 | 長岡 | 奥只見 | 高田 | 笹ヶ峰 | 立山 |
|------------|-----------|---------|---------|----------|---------|-----------|----------|------------|----------|
| | SHIROGANE | BIEI | SHINJO | SHIZU | NAGAOKA | OKUTADAMI | TAKADA | SASAGAMINE | TATEYAMA |
| | cm (Ave) | cm (9h) | cm (9h) | cm (Ave) | cm (9h) | cm (9h) | cm (Max) | cm (Ave) | cm |
| 1992 06.01 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 492 |
| 06.02 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 488 |
| 06.03 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 468 |
| 06.04 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 460 |
| 06.05 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 444 |
| 06.06 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 444 |
| 06.07 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 432 |
| 06.08 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 404 |
| 06.09 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 388 |
| 06.10 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 388 |
| 06.11 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | -9999 |
| 06.12 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 364 |
| 06.13 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 352 |
| 06.14 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 348 |
| 06.15 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 332 |
| 06.16 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 332 |
| 06.17 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 312 |
| 06.18 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 312 |
| 06.19 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 300 |
| 06.20 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 292 |
| 06.21 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 296 |
| 06.22 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 296 |
| 06.23 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 288 |
| 06.24 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 264 |
| 06.25 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 260 |
| 06.26 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 260 |
| 06.27 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 252 |
| 06.28 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 248 |
| 06.29 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 248 |
| 06.30 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 232 |

表5-1-9 積雪深 (1992年7月)
Table 5-1-9 Snow depth (July 1992)

9999:未測定・不測定 / -9999:欠測

| 年 月日 | 白金 | 美瑛 | 新庄 | 志津 | 長岡 | 奥只見 | 高田 | 笹ヶ峰 | 立山 |
|------------|-----------|---------|---------|----------|---------|-----------|----------|------------|----------|
| | SHIROGANE | BIEI | SHINJO | SHIZU | NAGAOKA | OKUTADAMI | TAKADA | SASAGAMINE | TATEYAMA |
| | cm (Ave) | cm (9h) | cm (9h) | cm (Ave) | cm (9h) | cm (9h) | cm (Max) | cm (Ave) | cm |
| 1992 07.01 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 228 |
| 07.02 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 216 |
| 07.03 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 208 |
| 07.04 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 184 |
| 07.05 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 176 |
| 07.06 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 160 |
| 07.07 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 152 |
| 07.08 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 136 |
| 07.09 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 120 |
| 07.10 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 120 |
| 07.11 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 92 |
| 07.12 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 76 |
| 07.13 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 76 |
| 07.14 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 52 |
| 07.15 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 48 |
| 07.16 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 44 |
| 07.17 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 28 |
| 07.18 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 0 |
| 07.19 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 0 |
| 07.20 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 0 |
| 07.21 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 0 |
| 07.22 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 0 |
| 07.23 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 0 |
| 07.24 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 0 |
| 07.25 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 0 |
| 07.26 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 0 |
| 07.27 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 0 |
| 07.28 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 0 |
| 07.29 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 0 |
| 07.30 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 0 |
| 07.31 | -9999 | 0 | 0 | -9999 | 0 | -9999 | 0 | 0 | 0 |

表5-2-1 積雪重量 (1991年11月)

Table 5-2-1 Show weight (November 1991)

9999:未測定・不測定 / -9999:欠測

| 年 月日 | 白金 | 美瑛 | 新庄 | 志津 | 長岡 | 奥只見 | 高田 | 笹ヶ峰 | 立山 |
|------------|-------------------------|-------------------------|------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------|
| | SHIROGANE | BIEI | SHINJO | SHIZU | NAGAOKA | OKUTADAMI | TAKADA | SASAGAMINE | TATEYAMA |
| | kg/m ² (Ave) | kg/m ² (Ave) | kg/m ² (9h) | kg/m ² (Ave) | kg/m ² (Ave) | kg/m ² (Ave) | kg/m ² (Ave) | kg/m ² (Ave) | kg/m ² |
| 1991 11.01 | -9999 | -9999 | 0 | -9999 | 0 | 0 | 0 | 0 | 9999 |
| 11.02 | -9999 | -9999 | 0 | -9999 | 0 | 0 | 0 | 0 | 9999 |
| 11.03 | -9999 | -9999 | 0 | -9999 | 0 | 0 | 0 | 0 | 9999 |
| 11.04 | -9999 | -9999 | 0 | -9999 | 0 | 0 | 0 | 0 | 9999 |
| 11.05 | -9999 | -9999 | 0 | -9999 | 0 | 0 | 0 | 0 | 9999 |
| 11.06 | -9999 | -9999 | 0 | -9999 | 0 | 0 | 0 | 0 | 9999 |
| 11.07 | -9999 | -9999 | 0 | -9999 | 0 | 0 | 0 | 0 | 9999 |
| 11.08 | -9999 | -9999 | 0 | -9999 | 0 | 0 | 0 | 0 | 9999 |
| 11.09 | -9999 | -9999 | 0 | -9999 | 0 | 0 | 0 | 0 | 9999 |
| 11.10 | -9999 | -9999 | 0 | -9999 | 0 | 0 | 0 | 0 | 9999 |
| 11.11 | -9999 | -9999 | 0 | -9999 | 0 | 0 | 0 | 0 | 9999 |
| 11.12 | -9999 | -9999 | 0 | -9999 | 0 | 0 | 0 | 0 | 9999 |
| 11.13 | -9999 | -9999 | 0 | -9999 | 0 | 0 | 0 | 0 | 9999 |
| 11.14 | -9999 | -9999 | 0 | -9999 | 0 | 0 | 0 | 1 | 9999 |
| 11.15 | -9999 | -9999 | 0 | -9999 | 0 | 0 | 0 | 2 | 9999 |
| 11.16 | -9999 | -9999 | 0 | -9999 | 0 | 0 | 0 | 0 | 9999 |
| 11.17 | -9999 | -9999 | 0 | -9999 | 0 | 0 | 0 | 0 | 9999 |
| 11.18 | -9999 | -9999 | 0 | -9999 | 0 | 0 | 0 | 0 | 9999 |
| 11.19 | -9999 | -9999 | 0 | -9999 | 0 | 0 | 0 | 0 | 9999 |
| 11.20 | -9999 | -9999 | 0 | -9999 | 0 | 0 | 0 | 23 | 9999 |
| 11.21 | -9999 | -9999 | 0 | -9999 | 0 | 7 | 0 | 39 | 9999 |
| 11.22 | -9999 | -9999 | 0 | -9999 | 0 | 17 | 0 | 36 | 9999 |
| 11.23 | -9999 | -9999 | 0 | -9999 | 0 | 15 | 0 | 34 | 9999 |
| 11.24 | -9999 | -9999 | 0 | -9999 | 0 | 8 | -9999 | 32 | 9999 |
| 11.25 | -9999 | -9999 | 0 | -9999 | 0 | 25 | 0 | 47 | 9999 |
| 11.26 | -9999 | -9999 | 0 | -9999 | 0 | 59 | 0 | 46 | 9999 |
| 11.27 | -9999 | -9999 | 0 | -9999 | 0 | 73 | 0 | 46 | 9999 |
| 11.28 | -9999 | -9999 | 0 | -9999 | 0 | 75 | 0 | 35 | 9999 |
| 11.29 | -9999 | -9999 | 0 | -9999 | 0 | 43 | 0 | 16 | 9999 |
| 11.30 | -9999 | -9999 | 0 | -9999 | 0 | 38 | 0 | 10 | 9999 |

表5-2-2 積雪重量 (1991年12月)
Table 5-2-2 Snow weight (December 1991)

9999:未測定・不測定 / -9999:欠測

| 年 月日 | 白金 | 美瑛 | 新庄 | 志津 | 長岡 | 奥只見 | 高田 | 笹ヶ峰 | 立山 |
|------------|-------------------------|-------------------------|------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------|
| | SHIROGANE | BI EI | SHINJO | SHIZU | NAGAOKA | OKUTADAMI | TAKADA | SASAGAMINE | TATEYAMA |
| | kg/m ² (Ave) | kg/m ² (Ave) | kg/m ² (9h) | kg/m ² (Ave) | kg/m ² (Ave) | kg/m ² (Ave) | kg/m ² (Ave) | kg/m ² (Ave) | kg/m ² |
| 1991 12.01 | -9999 | -9999 | 0 | -9999 | 0 | 28 | 0 | 0 | 9999 |
| 12.02 | -9999 | -9999 | 0 | -9999 | 0 | 16 | 0 | -0 | 9999 |
| 12.03 | -9999 | -9999 | 0 | -9999 | 0 | 12 | 0 | 0 | 9999 |
| 12.04 | -9999 | -9999 | 0 | -9999 | 0 | 7 | 0 | 0 | 9999 |
| 12.05 | -9999 | -9999 | 0 | -9999 | 0 | 5 | 0 | 0 | 9999 |
| 12.06 | -9999 | -9999 | 0 | -9999 | 0 | 0 | 0 | 0 | 9999 |
| 12.07 | -9999 | -9999 | 0 | -9999 | 0 | 1 | 0 | 0 | 9999 |
| 12.08 | -9999 | -9999 | 0 | -9999 | 0 | 2 | 0 | 1 | 9999 |
| 12.09 | -9999 | -9999 | 0 | -9999 | 0 | 0 | 0 | 15 | 9999 |
| 12.10 | -9999 | -9999 | 1 | -9999 | 1 | 17 | 0 | 35 | 9999 |
| 12.11 | -9999 | -9999 | 0 | -9999 | 0 | 47 | 0 | 40 | 9999 |
| 12.12 | -9999 | -9999 | 0 | -9999 | 8 | 51 | -9999 | 78 | 9999 |
| 12.13 | -9999 | -9999 | 11 | -9999 | 29 | 93 | -9999 | 100 | 9999 |
| 12.14 | -9999 | -9999 | 12 | -9999 | 22 | 126 | -9999 | 102 | 9999 |
| 12.15 | -9999 | -9999 | 6 | -9999 | 2 | 136 | 0 | 102 | 9999 |
| 12.16 | -9999 | -9999 | 0 | 130 | 0 | 135 | 0 | 103 | 9999 |
| 12.17 | -9999 | -9999 | 0 | 122 | 0 | 142 | 0 | 103 | 9999 |
| 12.18 | -9999 | -9999 | 0 | 112 | 0 | 138 | 0 | 103 | 9999 |
| 12.19 | -9999 | -9999 | 0 | 112 | 0 | 106 | 0 | 102 | 9999 |
| 12.20 | -9999 | -9999 | 1 | 120 | 0 | 113 | 0 | 116 | 9999 |
| 12.21 | -9999 | -9999 | 0 | 116 | 0 | 133 | 0 | 117 | 9999 |
| 12.22 | -9999 | -9999 | 0 | 115 | 0 | 148 | 0 | 117 | 9999 |
| 12.23 | -9999 | -9999 | 1 | 110 | 0 | 158 | 0 | 116 | 9999 |
| 12.24 | -9999 | -9999 | 0 | 97 | 0 | 154 | 0 | 117 | 9999 |
| 12.25 | -9999 | -9999 | 0 | 85 | 0 | 111 | 0 | 114 | 9999 |
| 12.26 | -9999 | -9999 | 1 | 78 | 0 | 103 | 0 | 116 | 9999 |
| 12.27 | -9999 | -9999 | 1 | 88 | 0 | 113 | 0 | 118 | 9999 |
| 12.28 | -9999 | -9999 | 4 | 113 | 0 | 136 | 0 | 129 | 9999 |
| 12.29 | -9999 | -9999 | 12 | 156 | 0 | 169 | 0 | 197 | 9999 |
| 12.30 | -9999 | -9999 | 18 | 178 | 22 | 249 | 0 | 253 | 9999 |
| 12.31 | -9999 | -9999 | 23 | 180 | 30 | 299 | 0 | 273 | 9999 |

表5-2-3 積雪重量 (1992年1月)

Table 5-2-3 Snow weight (January 1992)

9999:未測定・不測定 / -9999:欠測

| 年 月日 | 白金 | 美瑛 | 新庄 | 志津 | 長岡 | 奥只見 | 高田 | 笹ヶ峰 | 立山 |
|------------|-------------------------|-------------------------|------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------|
| | SHIROGANE | BIEI | SHINJO | SHIZU | NAGAOKA | OKUTADAMI | TAKADA | SASAGAMINE | TATEYAMA |
| | kg/m ² (Ave) | kg/m ² (Ave) | kg/m ² (9h) | kg/m ² (Ave) | kg/m ² (Ave) | kg/m ² (Ave) | kg/m ² (Ave) | kg/m ² (Ave) | kg/m ² |
| 1992 01.01 | -9999 | -9999 | 21 | 180 | 26 | 317 | 0 | 273 | 9999 |
| 01.02 | -9999 | -9999 | 17 | 180 | 12 | 326 | 0 | 273 | 9999 |
| 01.03 | -9999 | -9999 | 17 | 183 | 0 | 336 | 0 | 280 | 9999 |
| 01.04 | -9999 | -9999 | 13 | 198 | 7 | 344 | 0 | 290 | 9999 |
| 01.05 | -9999 | -9999 | 10 | 212 | 0 | 365 | 0 | 295 | 9999 |
| 01.06 | -9999 | -9999 | 17 | 220 | 0 | 389 | 0 | 301 | 9999 |
| 01.07 | -9999 | -9999 | 15 | 220 | 0 | 415 | 0 | 315 | 9999 |
| 01.08 | -9999 | -9999 | 4 | 238 | 0 | 429 | 0 | 319 | 9999 |
| 01.09 | -9999 | -9999 | 0 | 241 | 0 | 454 | 0 | 320 | 9999 |
| 01.10 | -9999 | -9999 | 3 | 257 | 5 | 447 | 0 | 340 | 9999 |
| 01.11 | -9999 | -9999 | 1 | 260 | 0 | 470 | 0 | 348 | 9999 |
| 01.12 | -9999 | -9999 | 0 | 260 | 0 | 495 | 0 | 347 | 9999 |
| 01.13 | -9999 | -9999 | 0 | 260 | 0 | 502 | 0 | 347 | 9999 |
| 01.14 | -9999 | -9999 | 5 | 280 | 7 | 486 | 0 | 370 | 9999 |
| 01.15 | -9999 | -9999 | 11 | 290 | 8 | 511 | 0 | 394 | 9999 |
| 01.16 | -9999 | -9999 | 9 | 290 | 7 | 535 | 17 | 395 | 9999 |
| 01.17 | -9999 | -9999 | 13 | 293 | 0 | 550 | 17 | 395 | 9999 |
| 01.18 | -9999 | -9999 | 15 | 331 | 13 | 560 | 35 | 425 | 9999 |
| 01.19 | -9999 | -9999 | 41 | 362 | 32 | 657 | 53 | 468 | 9999 |
| 01.20 | -9999 | -9999 | 74 | 378 | 45 | 717 | 58 | 469 | 9999 |
| 01.21 | -9999 | -9999 | 79 | 388 | 45 | 752 | 55 | 466 | 9999 |
| 01.22 | -9999 | -9999 | 83 | 394 | 40 | 760 | 50 | 467 | 9999 |
| 01.23 | -9999 | -9999 | 95 | 416 | 61 | 788 | 82 | 490 | 9999 |
| 01.24 | -9999 | -9999 | 111 | 438 | 78 | 833 | 118 | 522 | 9999 |
| 01.25 | -9999 | -9999 | 112 | 448 | 89 | 881 | 130 | 523 | 9999 |
| 01.26 | -9999 | -9999 | 126 | 470 | 88 | 895 | 124 | 525 | 9999 |
| 01.27 | -9999 | -9999 | 124 | -9999 | 77 | 906 | 110 | 526 | 9999 |
| 01.28 | -9999 | -9999 | 131 | -9999 | 62 | 938 | 88 | 531 | 9999 |
| 01.29 | -9999 | -9999 | 135 | -9999 | 51 | 956 | 58 | 546 | 9999 |
| 01.30 | -9999 | -9999 | 138 | -9999 | 36 | 976 | 51 | 561 | 9999 |
| 01.31 | -9999 | -9999 | 136 | -9999 | 33 | 978 | 46 | 561 | 9999 |

表5-2-4 積雪重量 (1992年2月)

Table 5-2-4 Snow weight (February 1992)

9999:未測定・不測定 / -9999:欠測

| 年 月日 | 白金 | 美瑛 | 新庄 | 志津 | 長岡 | 奥只見 | 高田 | 笹ヶ峰 | 立山 |
|------------|-------------------------|-------------------------|------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------|
| | SHIROGANE | BIEI | SHINJO | SHIZU | NAGAOKA | OKUTADAMI | TAKADA | SASAGAMINE | TATEYAMA |
| | kg/m ² (Ave) | kg/m ² (Ave) | kg/m ² (9h) | kg/m ² (Ave) | kg/m ² (Ave) | kg/m ² (Ave) | kg/m ² (Ave) | kg/m ² (Ave) | kg/m ² |
| 1992 02.01 | -9999 | -9999 | 143 | -9999 | 56 | 1000 | 69 | 597 | 9999 |
| 02.02 | -9999 | -9999 | 154 | -9999 | 71 | 1044 | 76 | 633 | 9999 |
| 02.03 | -9999 | -9999 | 152 | -9999 | 74 | 1087 | 72 | 633 | 9999 |
| 02.04 | -9999 | -9999 | 162 | -9999 | 76 | 1077 | 62 | 647 | 9999 |
| 02.05 | -9999 | -9999 | 157 | -9999 | 71 | 1074 | 56 | 656 | 9999 |
| 02.06 | -9999 | -9999 | 157 | -9999 | 76 | 1096 | 58 | 656 | 9999 |
| 02.07 | -9999 | -9999 | 160 | -9999 | 76 | 1089 | 49 | 668 | 9999 |
| 02.08 | 90 | 95 | 165 | -9999 | 89 | 1116 | 66 | 677 | 9999 |
| 02.09 | 114 | 97 | 164 | -9999 | 105 | 1116 | 87 | 686 | 9999 |
| 02.10 | 114 | 101 | 167 | -9999 | 109 | 1137 | 87 | 690 | 9999 |
| 02.11 | 117 | 110 | 181 | -9999 | 111 | 1141 | 87 | 713 | 9999 |
| 02.12 | 113 | 112 | 177 | -9999 | 105 | 1165 | 85 | 715 | 9999 |
| 02.13 | 109 | 115 | 181 | -9999 | 107 | 1170 | 74 | 713 | 9999 |
| 02.14 | 113 | 117 | 182 | -9999 | 97 | 1169 | 67 | 716 | 9999 |
| 02.15 | 110 | 117 | 188 | -9999 | 94 | 1187 | 60 | 718 | 9999 |
| 02.16 | 102 | 123 | 187 | -9999 | 90 | 1186 | 47 | 717 | 9999 |
| 02.17 | 119 | 141 | 209 | -9999 | 94 | 1203 | 37 | 744 | 9999 |
| 02.18 | 125 | 146 | 207 | -9999 | 89 | 1229 | 28 | 743 | 9999 |
| 02.19 | 130 | 151 | 227 | -9999 | 90 | 1236 | 25 | 764 | 9999 |
| 02.20 | 144 | 156 | 237 | -9999 | 103 | 1277 | 41 | 780 | 9999 |
| 02.21 | 148 | 158 | 243 | -9999 | 101 | 1273 | 53 | 784 | 9999 |
| 02.22 | 151 | 160 | 253 | -9999 | 124 | 1317 | 77 | 814 | 9999 |
| 02.23 | 157 | 166 | 258 | -9999 | 135 | 1374 | 94 | 829 | 9999 |
| 02.24 | 161 | 167 | 256 | -9999 | 137 | 1399 | 92 | 833 | 9999 |
| 02.25 | 162 | 167 | 260 | -9999 | 136 | 1395 | 91 | 884 | 9999 |
| 02.26 | 162 | 165 | 272 | -9999 | 142 | 1426 | 93 | 926 | 9999 |
| 02.27 | 162 | 163 | 270 | -9999 | 143 | 1458 | 72 | 926 | 9999 |
| 02.28 | 161 | 163 | 265 | -9999 | 114 | 1487 | 33 | 926 | 9999 |
| 02.29 | 160 | 163 | 257 | -9999 | 95 | 1492 | 21 | 920 | 9999 |

表5-2-5 積雪重量 (1992年3月)
Table 5-2-5 Snow weight (March 1992)

9999:未測定・不測定/-9999:欠測

| 年 月日 | 白金 | 美瑛 | 新庄 | 志津 | 長岡 | 奥只見 | 高田 | 笹ヶ峰 | 立山 |
|------------|-------------------------|-------------------------|------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------|
| | SHIROGANE | BIEI | SHINJO | SHIZU | NAGAOKA | OKUTADAMI | TAKADA | SASAGAMINE | TATEYAMA |
| | kg/m ² (Ave) | kg/m ² (Ave) | kg/m ² (9h) | kg/m ² (Ave) | kg/m ² (Ave) | kg/m ² (Ave) | kg/m ² (Ave) | kg/m ² (Ave) | kg/m ² |
| 1992 03.01 | 161 | 166 | 250 | -9999 | 71 | 1374 | 23 | 834 | 9999 |
| 03.02 | 168 | 171 | 230 | -9999 | 57 | 1362 | 22 | 902 | 9999 |
| 03.03 | 170 | 171 | 231 | -9999 | 61 | 1399 | 21 | 916 | 9999 |
| 03.04 | 173 | 172 | 232 | -9999 | 63 | 1435 | 21 | 920 | 9999 |
| 03.05 | 174 | 172 | 228 | -9999 | 54 | 1464 | 22 | 923 | 9999 |
| 03.06 | 176 | 173 | 247 | -9999 | 42 | 1470 | 23 | 934 | 9999 |
| 03.07 | 176 | 172 | 249 | -9999 | 27 | 1463 | 21 | 958 | 9999 |
| 03.08 | 177 | 173 | 249 | -9999 | 16 | 1477 | 21 | 963 | 9999 |
| 03.09 | 177 | 175 | 241 | -9999 | 0 | 1486 | 22 | 966 | 9999 |
| 03.10 | 177 | 175 | 227 | -9999 | 0 | 1491 | 24 | 964 | 9999 |
| 03.11 | 180 | 178 | 218 | -9999 | 0 | 1484 | 23 | 960 | 9999 |
| 03.12 | 183 | 182 | 207 | -9999 | 0 | 1497 | 23 | 965 | 9999 |
| 03.13 | 185 | 179 | 197 | -9999 | 0 | 1503 | 24 | 964 | 9999 |
| 03.14 | 184 | 174 | 174 | -9999 | 0 | 1489 | 24 | 962 | 9999 |
| 03.15 | 183 | 172 | 151 | -9999 | 0 | 1403 | 25 | 956 | 9999 |
| 03.16 | 188 | 173 | 142 | -9999 | 0 | 1313 | 24 | 935 | 9999 |
| 03.17 | 190 | 172 | 126 | -9999 | 0 | 1327 | 22 | 936 | 9999 |
| 03.18 | 186 | 171 | 110 | -9999 | 0 | 1362 | 23 | 953 | 9999 |
| 03.19 | 182 | 169 | 123 | -9999 | 0 | 1386 | 24 | 963 | 9999 |
| 03.20 | 188 | 169 | 116 | -9999 | 0 | 1411 | 23 | 961 | 9999 |
| 03.21 | 191 | 172 | 104 | -9999 | 16 | 1428 | 0 | 979 | 9999 |
| 03.22 | 194 | 174 | 123 | -9999 | 35 | 1436 | 0 | 997 | 9999 |
| 03.23 | 197 | 176 | 121 | -9999 | 28 | 1469 | 0 | 997 | 9999 |
| 03.24 | 198 | 175 | 118 | -9999 | 13 | 1506 | 0 | 1007 | 9999 |
| 03.25 | 200 | 173 | 92 | -9999 | 0 | 1493 | 0 | 1002 | 9999 |
| 03.26 | 205 | 177 | 78 | -9999 | 0 | 1491 | 0 | 996 | 9999 |
| 03.27 | 206 | 165 | 46 | -9999 | 0 | 1509 | 0 | 994 | 9999 |
| 03.28 | 207 | 147 | 22 | -9999 | 0 | 1515 | 0 | 993 | 9999 |
| 03.29 | 201 | 128 | 0 | -9999 | 0 | 1531 | 0 | 993 | 9999 |
| 03.30 | 192 | 121 | 0 | -9999 | 0 | 1564 | 0 | 1003 | 9999 |
| 03.31 | 179 | 113 | 0 | -9999 | 0 | 1543 | 0 | 963 | 9999 |

表5-2-6 積雪重量 (1992年4月)

Table 5-2-6 Snow weight (April 1992)

9999:未測定・不測定 / -9999:欠測

| 年 月日 | 白金 | 美瑛 | 新庄 | 志津 | 長岡 | 奥只見 | 高田 | 笹ヶ峰 | 立山 |
|------------|-------------------------|-------------------------|------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------|
| | SHIROGANE | BIEI | SHINJO | SHIZU | NAGAOKA | OKUTADAMI | TAKADA | SASAGAMINE | TATEYAMA |
| | kg/m ² (Ave) | kg/m ² (Ave) | kg/m ² (9h) | kg/m ² (Ave) | kg/m ² (Ave) | kg/m ² (Ave) | kg/m ² (Ave) | kg/m ² (Ave) | kg/m ² |
| 1992 04.01 | 160 | 94 | 0 | -9999 | 0 | 1525 | 0 | 946 | 9999 |
| 04.02 | 143 | 76 | 0 | -9999 | 0 | 1517 | 0 | 941 | 9999 |
| 04.03 | 123 | 45 | 0 | -9999 | 0 | 1488 | 0 | 916 | 9999 |
| 04.04 | 98 | 10 | 0 | -9999 | 0 | 1467 | 0 | 888 | 9999 |
| 04.05 | 68 | 0 | 0 | -9999 | 0 | 1443 | 0 | 872 | 9999 |
| 04.06 | 51 | 0 | 0 | -9999 | 0 | 1423 | 0 | 853 | 9999 |
| 04.07 | 38 | 0 | 0 | -9999 | 0 | 1392 | 0 | 821 | 9999 |
| 04.08 | 26 | 0 | 0 | -9999 | 0 | 1371 | 0 | 800 | 9999 |
| 04.09 | 17 | 0 | 0 | -9999 | 0 | 1374 | 0 | 773 | 9999 |
| 04.10 | 12 | 0 | 0 | -9999 | 0 | 1352 | 0 | 761 | 9999 |
| 04.11 | 9 | 0 | 0 | -9999 | 0 | 1309 | 0 | 739 | 9999 |
| 04.12 | 13 | 0 | 0 | -9999 | 0 | 1283 | 0 | 706 | 9999 |
| 04.13 | 12 | 0 | 0 | -9999 | 0 | 1270 | 0 | 700 | 9999 |
| 04.14 | 11 | 0 | 0 | -9999 | 0 | 1280 | 0 | 702 | 9999 |
| 04.15 | 13 | 0 | 0 | -9999 | 0 | 1272 | 0 | 699 | 9999 |
| 04.16 | 8 | 0 | 0 | -9999 | 0 | 1252 | 0 | 691 | 9999 |
| 04.17 | 12 | 0 | 0 | -9999 | 0 | 1274 | 0 | 661 | 9999 |
| 04.18 | 14 | 0 | 0 | -9999 | 0 | 1284 | 0 | 640 | 9999 |
| 04.19 | 19 | 0 | 0 | -9999 | 0 | 1289 | 0 | 612 | 9999 |
| 04.20 | 16 | 0 | 0 | -9999 | 0 | 1261 | 0 | 589 | 9999 |
| 04.21 | 15 | 0 | 0 | -9999 | 0 | 1235 | 0 | 562 | 9999 |
| 04.22 | 17 | 0 | 0 | -9999 | 0 | 1222 | 0 | 562 | 9999 |
| 04.23 | 15 | 0 | 0 | -9999 | 0 | 1189 | 0 | 514 | 9999 |
| 04.24 | 16 | 0 | 0 | -9999 | 0 | 1147 | 0 | 487 | 9999 |
| 04.25 | 17 | 0 | 0 | -9999 | 0 | 1107 | 0 | 453 | 9999 |
| 04.26 | 16 | 0 | 0 | -9999 | 0 | 1065 | 0 | 420 | 9999 |
| 04.27 | 19 | 0 | 0 | -9999 | 0 | 1029 | 0 | 389 | 9999 |
| 04.28 | 25 | 0 | 0 | -9999 | 0 | 982 | 0 | 356 | 9999 |
| 04.29 | 23 | 0 | 0 | -9999 | 0 | 931 | 0 | 318 | 9999 |
| 04.30 | 17 | 0 | 0 | -9999 | 0 | 885 | 0 | 290 | 9999 |

表5-2-7 積雪重量 (1992年5月)
Table 5-2-7 Snow weight (May 1992)

9999:未測定・不測定 / -9999:欠測

| 年 月日 | 白金 | 美瑛 | 新庄 | 志津 | 長岡 | 奥只見 | 高田 | 笹ヶ峰 | 立山 |
|------------|-------------------------|-------------------------|------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------|
| | SHIROGANE | BIEI | SHINJO | SHIZU | NAGAOKA | OKUTADAMI | TAKADA | SASAGAMINE | TATEYAMA |
| | kg/m ² (Ave) | kg/m ² (Ave) | kg/m ² (9h) | kg/m ² (Ave) | kg/m ² (Ave) | kg/m ² (Ave) | kg/m ² (Ave) | kg/m ² (Ave) | kg/m ² |
| 1992 05.01 | 14 | 0 | 0 | -9999 | 0 | 863 | 0 | 293 | 9999 |
| 05.02 | 17 | 0 | 0 | -9999 | 0 | 845 | 0 | 291 | 9999 |
| 05.03 | 16 | 0 | 0 | -9999 | 0 | 827 | 0 | 283 | 9999 |
| 05.04 | 17 | 0 | 0 | -9999 | 0 | 792 | 0 | 262 | 9999 |
| 05.05 | 14 | 0 | 0 | -9999 | 0 | 763 | 0 | 247 | 9999 |
| 05.06 | 15 | 0 | 0 | -9999 | 0 | 756 | 0 | 222 | 9999 |
| 05.07 | 22 | 0 | 0 | -9999 | 0 | 732 | 0 | 188 | 9999 |
| 05.08 | 23 | 0 | 0 | -9999 | 0 | 663 | 0 | 152 | 9999 |
| 05.09 | 30 | 0 | 0 | -9999 | 0 | 580 | 0 | 109 | 9999 |
| 05.10 | 28 | 0 | 0 | -9999 | 0 | 511 | 0 | 55 | 9999 |
| 05.11 | 29 | 0 | 0 | -9999 | 0 | 468 | 0 | 8 | 9999 |
| 05.12 | 32 | 0 | 0 | -9999 | 0 | 429 | 0 | 0 | 9999 |
| 05.13 | 35 | 0 | 0 | -9999 | 0 | 383 | 0 | 0 | 9999 |
| 05.14 | 29 | 0 | 0 | -9999 | 0 | 311 | 0 | -0 | 9999 |
| 05.15 | 32 | 0 | 0 | -9999 | 0 | 245 | 0 | 0 | 9999 |
| 05.16 | 35 | 0 | 0 | -9999 | 0 | 160 | 0 | 0 | 9999 |
| 05.17 | 35 | 0 | 0 | -9999 | 0 | 101 | 0 | 0 | 9999 |
| 05.18 | 36 | 0 | 0 | -9999 | 0 | 51 | 0 | 0 | 9999 |
| 05.19 | 33 | 0 | 0 | -9999 | 0 | 12 | 0 | 0 | 9999 |
| 05.20 | 37 | 0 | 0 | -9999 | 0 | 0 | 0 | 0 | 9999 |
| 05.21 | 38 | 0 | 0 | -9999 | 0 | 0 | 0 | 0 | 9999 |
| 05.22 | 34 | 0 | 0 | -9999 | 0 | 0 | 0 | 0 | 9999 |
| 05.23 | 36 | 0 | 0 | -9999 | 0 | 0 | 0 | 0 | 9999 |
| 05.24 | 37 | 0 | 0 | -9999 | 0 | 0 | 0 | 0 | 9999 |
| 05.25 | 37 | 0 | 0 | -9999 | 0 | 0 | 0 | 0 | 9999 |
| 05.26 | 36 | 0 | 0 | -9999 | 0 | 0 | 0 | 0 | 9999 |
| 05.27 | 36 | 0 | 0 | -9999 | 0 | 0 | 0 | 0 | 9999 |
| 05.28 | 37 | 0 | 0 | -9999 | 0 | 0 | 0 | 0 | 9999 |
| 05.29 | 41 | 0 | 0 | -9999 | 0 | 0 | 0 | 0 | 9999 |
| 05.30 | 45 | 0 | 0 | -9999 | 0 | 0 | 0 | 0 | 9999 |
| 05.31 | 47 | 0 | 0 | -9999 | 0 | 0 | 0 | 0 | 9999 |

表5-3-1 日平均気温 (1991年11月)

Table 5-3-1 Daily average air temperature (November 1991)

9999:未測定・不測定 / -9999:欠測, 立山:6・7月は9時データ

| 年 月日 | 白金 | 美瑛 | 新庄 | 志津 | 長岡 | 奥只見 | 高田 | 笹ヶ峰 | 立山 |
|------------|-----------|-------|--------|-------|---------|-----------|--------|------------|----------|
| | SHIROGANE | BIEI | SHINJO | SHIZU | NAGAOKA | OKUTADAMI | TAKADA | SASAGAMINE | TATEYAMA |
| | ℃ | ℃ | ℃ | ℃ | ℃ | ℃ | ℃ | ℃ | ℃ |
| 1991 11.01 | -9999 | -9999 | 9999 | 9999 | 9.6 | 4.3 | 11.5 | 3.9 | -9999 |
| 11.02 | -9999 | -9999 | 9999 | 9999 | 11.2 | 5.9 | 11.9 | 4.6 | -9999 |
| 11.03 | -9999 | -9999 | 9999 | 9999 | 12.6 | 7.1 | 12.9 | 5.8 | -9999 |
| 11.04 | -9999 | -9999 | 9999 | 9999 | 8.6 | 2.9 | 9.6 | 3.2 | -9999 |
| 11.05 | -9999 | -9999 | 9999 | 9999 | 7.2 | -0.8 | 8.1 | 0.3 | -9999 |
| 11.06 | -9999 | -9999 | 9999 | 9999 | 6.0 | 2.0 | 7.5 | 1.2 | -9999 |
| 11.07 | -9999 | -9999 | 9999 | 9999 | 10.1 | 7.6 | 7.9 | 7.0 | -9999 |
| 11.08 | -9999 | -9999 | 9999 | 9999 | 12.8 | 9.3 | 15.9 | 8.5 | -9999 |
| 11.09 | -9999 | -9999 | 9999 | 9999 | 9.7 | 1.8 | 10.3 | 1.7 | -9999 |
| 11.10 | -9999 | -9999 | 9999 | 9999 | 10.9 | 2.6 | 11.0 | 2.6 | -9999 |
| 11.11 | -9999 | -9999 | 9999 | 9999 | 6.1 | 0.0 | 8.0 | 0.7 | -9999 |
| 11.12 | -9999 | -9999 | 9999 | 9999 | 7.3 | 0.5 | 8.5 | 0.5 | -9999 |
| 11.13 | -9999 | -9999 | 9999 | 9999 | 8.6 | 1.7 | 9.9 | 2.8 | -9999 |
| 11.14 | -9999 | -9999 | 9999 | 9999 | 7.1 | -0.2 | 7.8 | 0.5 | -9999 |
| 11.15 | -9999 | -9999 | 9999 | 9999 | 5.8 | -1.5 | 7.1 | -0.2 | -9999 |
| 11.16 | -9999 | -9999 | 9999 | 9999 | 7.0 | 0.2 | 7.6 | 0.2 | -9999 |
| 11.17 | -9999 | -9999 | 9999 | 9999 | 8.6 | 2.9 | 9.0 | 3.5 | -9999 |
| 11.18 | -9999 | -9999 | 9999 | 9999 | 9.1 | 3.0 | 9.9 | 1.8 | -9999 |
| 11.19 | -9999 | -9999 | 9999 | 9999 | 10.6 | 4.0 | 12.0 | 3.9 | -9999 |
| 11.20 | -9999 | -9999 | 9999 | 9999 | 6.7 | -1.3 | 8.8 | -1.2 | -9999 |
| 11.21 | -9999 | -9999 | 9999 | 9999 | 6.0 | -2.2 | 7.4 | -1.7 | -9999 |
| 11.22 | -9999 | -9999 | 9999 | 9999 | 7.8 | 2.1 | 8.6 | 2.2 | -9999 |
| 11.23 | -9999 | -9999 | 9999 | 9999 | 10.0 | 5.0 | 10.2 | 4.3 | -2.1 |
| 11.24 | -9999 | -9999 | 9999 | 9999 | 6.0 | -1.7 | 6.8 | -1.1 | -6.9 |
| 11.25 | -9999 | -9999 | 9999 | 9999 | 3.1 | -5.3 | 4.1 | -5.6 | -10.0 |
| 11.26 | -9999 | -9999 | 9999 | 9999 | 3.8 | 1.1 | 5.0 | 0.8 | -3.1 |
| 11.27 | -9999 | -9999 | 2.7 | 9999 | 7.7 | 7.1 | 9.4 | 5.6 | 1.5 |
| 11.28 | -9999 | -9999 | 6.6 | 9999 | 10.0 | 9.4 | 11.7 | 7.5 | 3.4 |
| 11.29 | -9999 | -9999 | 7.6 | 9999 | 9.8 | 2.5 | 10.6 | 2.7 | -2.2 |
| 11.30 | -9999 | -9999 | 3.5 | 9999 | 8.3 | 4.7 | 10.1 | 2.6 | -0.4 |

表5-3-2 日平均気温 (1991年12月)

Table 5-3-2 Daily average air temperature (December 1991)

9999:未測定・不測定 / -9999:欠測, 立山:6・7月は9時データ

| 年 月日 | 白金 | 美瑛 | 新庄 | 志津 | 長岡 | 奥只見 | 高田 | 笹ヶ峰 | 立山 |
|------------|-----------|-------|--------|-------|---------|-----------|--------|------------|----------|
| | SHIROGANE | BIEI | SHINJO | SHIZU | NAGAOKA | OKUTADAMI | TAKADA | SASAGAMINE | TATEYAMA |
| | ℃ | ℃ | ℃ | ℃ | ℃ | ℃ | ℃ | ℃ | ℃ |
| 1991 12.01 | -9999 | -9999 | 4.4 | 9999 | 9.2 | 3.6 | 11.0 | 2.1 | -1.2 |
| 12.02 | -9999 | -9999 | 4.1 | 9999 | 8.1 | 0.3 | 8.7 | 0.0 | -4.5 |
| 12.03 | -9999 | -9999 | 1.7 | 9999 | 7.7 | 2.2 | 8.9 | 2.1 | -4.9 |
| 12.04 | -9999 | -9999 | 4.1 | 9999 | 7.5 | 0.8 | 8.3 | 1.1 | -5.9 |
| 12.05 | -9999 | -9999 | 3.7 | 9999 | 9.4 | 3.3 | 8.9 | 1.2 | -2.1 |
| 12.06 | -9999 | -9999 | 3.2 | 9999 | 11.2 | 4.2 | 9.9 | 2.7 | -2.5 |
| 12.07 | -9999 | -9999 | 4.2 | 9999 | 9.9 | 3.1 | 9.4 | 1.8 | -3.0 |
| 12.08 | -9999 | -9999 | 0.8 | 9999 | 5.4 | 1.4 | 6.9 | 0.5 | -5.2 |
| 12.09 | -9999 | -9999 | 0.3 | 9999 | 2.7 | -4.7 | 2.9 | -4.1 | -10.5 |
| 12.10 | -9999 | -9999 | -0.5 | 9999 | 1.7 | -4.9 | 2.2 | -3.5 | -9.3 |
| 12.11 | -9999 | -9999 | 0.8 | 9999 | 3.7 | 1.0 | 8.2 | 0.1 | -6.0 |
| 12.12 | -9999 | -9999 | -1.4 | 9999 | -0.3 | -7.2 | 0.6 | -7.0 | -13.4 |
| 12.13 | -9999 | -9999 | 0.2 | 9999 | 1.3 | -5.3 | 1.4 | -4.9 | -11.2 |
| 12.14 | -9999 | -9999 | 0.6 | 9999 | 5.4 | -0.9 | 4.5 | -1.0 | -7.3 |
| 12.15 | -9999 | -9999 | 0.4 | 9999 | 5.6 | 1.6 | 5.5 | -0.9 | -7.9 |
| 12.16 | -9999 | -9999 | 0.4 | 9999 | 6.7 | 2.5 | 5.6 | 0.5 | -2.1 |
| 12.17 | -9999 | -9999 | -0.5 | 9999 | 7.7 | 6.1 | 10.2 | 3.8 | 1.4 |
| 12.18 | -9999 | -9999 | 2.3 | 9999 | -9999 | 2.0 | 7.5 | 1.8 | -4.1 |
| 12.19 | -9999 | -9999 | 1.3 | 9999 | 2.8 | -5.0 | 3.7 | -4.3 | -10.3 |
| 12.20 | -9999 | -9999 | 0.1 | 9999 | 2.7 | -6.3 | 3.4 | -6.0 | -8.4 |
| 12.21 | -9999 | -9999 | 3.2 | 9999 | 4.6 | -1.5 | 4.9 | -1.5 | -4.3 |
| 12.22 | -9999 | -9999 | 3.0 | 9999 | 6.4 | 1.8 | 6.9 | 0.8 | -2.8 |
| 12.23 | -9999 | -9999 | 2.0 | 9999 | 8.2 | 5.0 | 10.2 | 3.5 | -0.9 |
| 12.24 | -9999 | -9999 | 4.8 | 9999 | 9.1 | 2.8 | 9.5 | 3.3 | -2.3 |
| 12.25 | -9999 | -9999 | 1.8 | 9999 | 3.2 | -4.1 | 4.0 | -4.1 | -3.5 |
| 12.26 | -9999 | -9999 | 0.3 | 9999 | 1.9 | -5.2 | 3.1 | -4.5 | -8.3 |
| 12.27 | -9999 | -9999 | 0.7 | 9999 | 2.8 | -3.7 | 3.7 | -3.8 | -6.4 |
| 12.28 | -9999 | -9999 | 1.3 | 9999 | 4.5 | -0.8 | 5.6 | -1.8 | -8.8 |
| 12.29 | -9999 | -9999 | -0.8 | 9999 | 0.4 | -8.8 | 1.1 | -9.9 | -17.5 |
| 12.30 | -9999 | -9999 | -2.7 | 9999 | -0.6 | -9.0 | 1.7 | -9.6 | -16.7 |
| 12.31 | -9999 | -9999 | 1.5 | 9999 | 2.1 | -5.2 | 3.6 | -6.0 | -12.1 |

表5-3-3 日平均気温 (1992年1月)

Table 5-3-3 Daily average air temperature (January 1992)

9999:未測定・不測定 / -9999:欠測, 立山:6・7月は9時⁷-⁷

| 年 月日 | 白金 | 美瑛 | 新庄 | 志津 | 長岡 | 奥只見 | 高田 | 笹ヶ峰 | 立山 |
|------------|-----------|-------|--------|-------|---------|-----------|--------|------------|----------|
| | SHIROGANE | BIEI | SHINJO | SHIZU | NAGAOKA | OKUTADAMI | TAKADA | SASAGAMINE | TATEYAMA |
| | ℃ | ℃ | ℃ | ℃ | ℃ | ℃ | ℃ | ℃ | ℃ |
| 1992 01.01 | -9999 | -9999 | 0.7 | 9999 | 2.9 | -2.6 | 4.5 | -2.6 | -8.7 |
| 01.02 | -9999 | -9999 | 0.0 | 9999 | 3.9 | -3.3 | 4.8 | -2.9 | -9.3 |
| 01.03 | -9999 | -9999 | 1.1 | 9999 | 2.7 | -2.8 | 4.4 | -2.0 | -9.1 |
| 01.04 | -9999 | -9999 | 1.7 | 9999 | 2.2 | -5.2 | 2.4 | -5.0 | -12.7 |
| 01.05 | -9999 | -9999 | 1.7 | 9999 | 4.0 | -3.7 | 4.5 | -2.7 | -10.5 |
| 01.06 | -9999 | -9999 | 0.5 | 9999 | 3.5 | -2.0 | 4.1 | -3.4 | -4.8 |
| 01.07 | -9999 | -9999 | 1.0 | 9999 | 5.0 | 0.8 | 6.6 | 1.3 | -4.2 |
| 01.08 | -9999 | -9999 | 3.9 | 9999 | 6.4 | -2.7 | 6.2 | -2.8 | -7.6 |
| 01.09 | -9999 | -9999 | 0.1 | 9999 | 2.9 | -1.6 | 3.8 | -1.7 | -5.5 |
| 01.10 | -9999 | -9999 | 0.1 | 9999 | 1.9 | -5.8 | 4.0 | -5.8 | -11.4 |
| 01.11 | -9999 | -9999 | 3.0 | 9999 | 3.2 | -4.6 | 3.8 | -5.8 | -6.2 |
| 01.12 | -9999 | -9999 | -0.1 | 9999 | 4.3 | -0.6 | 4.4 | -0.7 | -7.0 |
| 01.13 | -9999 | -9999 | 4.4 | 9999 | 5.6 | -0.3 | 6.1 | -1.4 | -9999 |
| 01.14 | -9999 | -9999 | -1.5 | 9999 | 0.7 | -6.5 | 2.8 | -6.6 | -9999 |
| 01.15 | -9999 | -9999 | -2.0 | 9999 | 0.0 | -8.7 | 1.2 | -9.7 | -9999 |
| 01.16 | -9999 | -9999 | -0.3 | 9999 | -0.6 | -4.1 | 1.4 | -4.6 | -9999 |
| 01.17 | -9999 | -9999 | -0.7 | 9999 | 3.2 | -1.8 | 5.0 | -2.4 | -9999 |
| 01.18 | -9999 | -9999 | -0.6 | 9999 | 0.8 | -6.9 | 0.7 | -7.7 | -9999 |
| 01.19 | -9999 | -9999 | -0.4 | 9999 | 0.8 | -7.9 | 0.7 | -8.7 | -9999 |
| 01.20 | -9999 | -9999 | -1.0 | 9999 | 0.9 | -6.9 | 0.1 | -7.7 | -9999 |
| 01.21 | -9999 | -9999 | -0.9 | 9999 | 1.4 | -4.2 | 0.7 | -5.6 | -9999 |
| 01.22 | -9999 | -9999 | -2.2 | 9999 | 1.6 | -3.4 | 1.6 | -4.1 | -9999 |
| 01.23 | -9999 | -9999 | -1.3 | 9999 | -0.5 | -7.9 | 0.0 | -7.5 | -9999 |
| 01.24 | -9999 | -9999 | -3.4 | 9999 | -0.9 | -8.1 | 0.4 | -7.8 | -9999 |
| 01.25 | -9999 | -9999 | -2.6 | 9999 | 2.1 | -3.9 | 1.9 | -3.4 | -9999 |
| 01.26 | -9999 | -9999 | -0.9 | 9999 | 2.3 | -2.9 | 2.1 | -2.5 | -9999 |
| 01.27 | -9999 | -9999 | -3.4 | 9999 | 2.8 | -2.6 | 4.0 | -2.8 | -9999 |
| 01.28 | -9999 | -9999 | 0.2 | 9999 | 3.1 | -4.0 | 3.7 | -2.2 | -9999 |
| 01.29 | -9999 | -9999 | -0.7 | 9999 | 3.8 | -2.5 | 4.9 | -1.7 | -9999 |
| 01.30 | -9999 | -9999 | -1.1 | 9999 | 1.2 | -5.3 | 1.3 | -4.5 | -9999 |
| 01.31 | -9999 | -9999 | -1.8 | 9999 | 0.3 | -6.3 | 1.3 | -6.8 | -9999 |

表5-3-4 日平均気温 (1992年2月)

Table 5-3-4 Daily average air temperature (February 1992)

9999:未測定・不測定 / -9999:欠測, 立山:6・7月は9時⁷-⁷ク

| 年 月日 | 白金 | 美瑛 | 新庄 | 志津 | 長岡 | 奥只見 | 高田 | 笹ヶ峰 | 立山 |
|------------|-----------|-------|--------|-------|---------|-----------|--------|------------|----------|
| | SHIROGANE | BIEI | SHINJO | SHIZU | NAGAOKA | OKUTADAMI | TAKADA | SASAGAMINE | TATEYAMA |
| | ℃ | ℃ | ℃ | ℃ | ℃ | ℃ | ℃ | ℃ | ℃ |
| 1992 02.01 | -9999 | -9999 | -2.1 | 9999 | -0.7 | -8.3 | 0.0 | -9.0 | -9999 |
| 02.02 | -9999 | -9999 | -0.9 | 9999 | 0.6 | -7.8 | 1.4 | -9.2 | -9999 |
| 02.03 | -9999 | -9999 | -0.7 | 9999 | 1.8 | -0.9 | 2.0 | -2.1 | -9999 |
| 02.04 | -9999 | -9999 | 0.5 | 9999 | 1.9 | -2.9 | 3.0 | -3.0 | -9999 |
| 02.05 | -9999 | -9999 | -1.7 | 9999 | 0.5 | -7.3 | 1.4 | -7.2 | -9999 |
| 02.06 | -9999 | -9999 | -2.1 | 9999 | 1.6 | -5.4 | 1.0 | -6.2 | -9999 |
| 02.07 | -9999 | -9999 | -2.5 | 9999 | 1.0 | -5.2 | 2.6 | -5.4 | -9999 |
| 02.08 | -10.3 | -7.1 | -2.6 | 9999 | -0.8 | -7.8 | -0.3 | -7.4 | -9999 |
| 02.09 | -10.3 | -8.1 | -2.3 | 9999 | -0.8 | -8.6 | 0.5 | -9.2 | -9999 |
| 02.10 | -4.8 | -3.2 | -2.9 | 9999 | 3.6 | -5.0 | 2.4 | -3.6 | -9999 |
| 02.11 | -10.5 | -7.7 | -3.0 | 9999 | -0.2 | -8.8 | 0.2 | -8.6 | -9999 |
| 02.12 | -5.6 | -3.8 | -3.9 | 9999 | 0.7 | -2.4 | 0.0 | -3.0 | -9999 |
| 02.13 | -8.2 | -5.6 | 0.3 | 9999 | 3.4 | -3.0 | 4.1 | -3.2 | -9999 |
| 02.14 | -7.2 | -5.2 | -0.6 | 9999 | 1.2 | -5.2 | 1.0 | -4.8 | -9999 |
| 02.15 | -1.5 | -0.8 | 0.9 | 9999 | 3.9 | -2.1 | 3.2 | -4.1 | -9999 |
| 02.16 | -1.5 | -0.3 | -2.2 | 9999 | 1.7 | -4.5 | 2.4 | -3.1 | -9999 |
| 02.17 | -8.4 | -5.2 | -2.1 | 9999 | -0.3 | -8.3 | 1.2 | -8.7 | -9999 |
| 02.18 | -5.6 | -3.8 | -3.0 | 9999 | 1.1 | -4.8 | 2.2 | -5.9 | -9999 |
| 02.19 | -8.2 | -5.9 | -2.5 | 9999 | -0.7 | -8.0 | 0.7 | -7.3 | -9999 |
| 02.20 | -11.5 | -8.8 | -4.8 | 9999 | -1.1 | -9.2 | -0.5 | -8.7 | -9999 |
| 02.21 | -8.1 | -6.6 | -4.0 | 9999 | -1.8 | -9.2 | -1.8 | -10.4 | -9999 |
| 02.22 | -9.6 | -7.2 | -2.1 | 9999 | 0.3 | -8.9 | 0.2 | -9.7 | -9999 |
| 02.23 | -7.5 | -4.6 | -0.2 | 9999 | 0.8 | -6.8 | 1.6 | -6.1 | -9999 |
| 02.24 | -4.0 | -2.8 | -0.8 | 9999 | 0.2 | -4.8 | 1.0 | -5.7 | -9999 |
| 02.25 | -8.3 | -8.8 | -0.9 | 9999 | -0.1 | -8.6 | 1.3 | -9.3 | -9999 |
| 02.26 | -6.1 | -5.3 | -0.4 | 9999 | 1.0 | -7.7 | 2.0 | -8.3 | -9999 |
| 02.27 | -6.5 | -7.2 | 1.2 | 9999 | 4.6 | -0.7 | 5.6 | 1.3 | -9999 |
| 02.28 | -3.7 | -5.1 | 0.5 | 9999 | 6.9 | 2.0 | 6.7 | 4.8 | -9999 |
| 02.29 | 0.8 | 1.9 | 0.3 | 9999 | 6.0 | 6.3 | 7.1 | 5.6 | -9999 |

表5-3-5 日平均気温 (1992年3月)

Table 5-3-5 Daily average air temperature (March 1992)

9999:未測定・不測定 / -9999:欠測, 立山:6・7月は9時データ

| 年 月日 | 白金 | 美瑛 | 新庄 | 志津 | 長岡 | 奥只見 | 高田 | 笹ヶ峰 | 立山 |
|------------|-----------|-------|--------|-------|---------|-----------|--------|------------|----------|
| | SHIROGANE | BIEI | SHINJO | SHIZU | NAGAOKA | OKUTADAMI | TAKADA | SASAGAMINE | TATEYAMA |
| | ℃ | ℃ | ℃ | ℃ | ℃ | ℃ | ℃ | ℃ | ℃ |
| 1992 03.01 | -5.4 | -3.8 | 3.2 | 9999 | 6.1 | 1.3 | 6.4 | 3.0 | -9999 |
| 03.02 | -8.0 | -5.5 | -0.6 | 9999 | 2.4 | -6.4 | 3.5 | -4.6 | -9999 |
| 03.03 | -8.3 | -6.0 | -1.5 | 9999 | 0.3 | -7.9 | 0.7 | -7.1 | -9999 |
| 03.04 | -8.0 | -5.6 | 0.3 | 9999 | 2.0 | -5.5 | 1.9 | -5.0 | -9999 |
| 03.05 | -9.1 | -10.2 | -1.0 | 9999 | 1.9 | -0.4 | 3.0 | 0.5 | -9999 |
| 03.06 | -8.8 | -7.1 | 0.4 | 9999 | 3.6 | -3.6 | 4.7 | -2.9 | -9999 |
| 03.07 | -10.1 | -7.9 | -0.9 | 9999 | 1.7 | -7.5 | 2.7 | -7.3 | -9999 |
| 03.08 | -5.1 | -4.1 | 0.6 | 9999 | 3.8 | -3.7 | 4.0 | -4.5 | -9999 |
| 03.09 | -3.5 | -4.8 | 1.3 | 9999 | 6.0 | 0.3 | 6.7 | -0.2 | -9999 |
| 03.10 | -0.8 | 0.3 | 1.7 | 9999 | 6.7 | -0.0 | 7.3 | 0.5 | -9999 |
| 03.11 | -3.2 | -0.5 | 2.5 | 9999 | 4.8 | -2.8 | 5.6 | -1.9 | -9999 |
| 03.12 | -3.1 | -2.1 | 0.2 | 9999 | 6.0 | 1.2 | 6.7 | 1.7 | -9999 |
| 03.13 | -1.1 | 0.7 | 4.6 | 9999 | 9.2 | 1.6 | 8.8 | 3.2 | -9999 |
| 03.14 | 0.3 | 2.2 | 5.0 | 9999 | 9.1 | 4.3 | 8.5 | 5.6 | -9999 |
| 03.15 | 1.6 | 2.9 | 2.5 | 9999 | 7.2 | 4.9 | 8.6 | 5.5 | -9999 |
| 03.16 | -5.8 | -3.0 | 2.7 | 9999 | 4.1 | -2.5 | 5.4 | -1.5 | -9999 |
| 03.17 | -8.0 | -6.6 | 0.5 | 9999 | 2.6 | -5.8 | 3.6 | -6.2 | -9999 |
| 03.18 | -6.2 | -5.3 | 0.8 | 9999 | 3.4 | -1.5 | 5.3 | -1.3 | -9999 |
| 03.19 | -2.5 | -0.5 | 2.6 | 9999 | 5.6 | -2.5 | 6.0 | -1.5 | -9999 |
| 03.20 | -5.0 | -3.0 | 1.8 | 9999 | 4.9 | -0.7 | 5.5 | 0.0 | -9999 |
| 03.21 | -6.8 | -4.7 | -1.8 | 9999 | 0.5 | -3.8 | 1.3 | -4.0 | -9999 |
| 03.22 | -7.5 | -5.2 | 0.0 | 9999 | 1.5 | -7.2 | 3.6 | -7.0 | -9999 |
| 03.23 | -4.9 | -2.6 | 0.9 | 9999 | 2.3 | -3.1 | 3.5 | -3.1 | -9999 |
| 03.24 | -1.8 | -1.6 | 2.8 | 9999 | 5.1 | 2.1 | 6.2 | 2.3 | -9999 |
| 03.25 | -2.2 | -1.4 | 4.1 | 9999 | 6.7 | 1.2 | 6.8 | 1.6 | -9999 |
| 03.26 | 0.0 | 2.5 | 5.7 | 9999 | 7.8 | -0.4 | 6.7 | -0.4 | -9999 |
| 03.27 | 1.1 | 2.6 | 4.5 | 9999 | 5.9 | -0.7 | 5.9 | -1.1 | -9999 |
| 03.28 | 2.5 | 3.3 | 3.5 | 9999 | 7.2 | 1.9 | 6.9 | 1.8 | -9999 |
| 03.29 | 3.5 | 3.0 | 7.0 | 9999 | 11.4 | 4.9 | 11.5 | 3.8 | -9999 |
| 03.30 | 3.0 | 3.7 | 7.1 | 9999 | 9.0 | 2.8 | 9.7 | 2.7 | -9999 |
| 03.31 | 5.2 | 7.3 | 6.7 | 9999 | 9.3 | 2.4 | 9.3 | 3.8 | -9999 |

表5-3-6 日平均気温 (1992年4月)

Table 5-3-6 Daily average air temperature (April 1992)

9999:未測定・不測定 / -9999:欠測, 立山:6・7月は9時⁷-⁷

| 年 月日 | 白金 | 美瑛 | 新庄 | 志津 | 長岡 | 奥只見 | 高田 | 笹ヶ峰 | 立山 |
|------------|-----------|------|--------|-------|---------|-----------|--------|------------|----------|
| | SHIROGANE | BIEI | SHINJO | SHIZU | NAGAOKA | OKUTADAMI | TAKADA | SASAGAMINE | TATEYAMA |
| | ℃ | ℃ | ℃ | ℃ | ℃ | ℃ | ℃ | ℃ | ℃ |
| 1992 04.01 | 6.0 | 7.2 | 5.8 | 9999 | 10.2 | 6.3 | 11.0 | 5.1 | -9999 |
| 04.02 | 7.0 | 7.3 | 8.4 | 9999 | 10.7 | 4.0 | 10.5 | 4.8 | -2.7 |
| 04.03 | 6.1 | 7.8 | 9.8 | 9999 | 11.3 | 5.5 | 10.9 | 4.7 | 0.9 |
| 04.04 | 9.2 | 10.2 | 10.2 | 9999 | 14.4 | 7.0 | 14.7 | 6.1 | 2.1 |
| 04.05 | 8.2 | 10.5 | 10.4 | 9999 | 11.1 | 3.1 | 11.5 | 2.6 | -0.3 |
| 04.06 | 0.0 | 1.8 | 9.0 | 9999 | 10.5 | 3.3 | 9.2 | 5.8 | 2.3 |
| 04.07 | -2.5 | -0.3 | 5.9 | 9999 | 7.6 | 1.0 | 8.2 | 1.7 | 0.8 |
| 04.08 | 1.4 | 3.1 | 7.9 | 9999 | 10.7 | 5.6 | 9.9 | 6.0 | 1.7 |
| 04.09 | 3.1 | 5.0 | 11.0 | 9999 | 11.3 | 5.4 | 12.2 | 5.6 | -0.5 |
| 04.10 | 1.0 | 3.0 | 6.1 | 9999 | 8.8 | 4.5 | 11.3 | 3.6 | 2.6 |
| 04.11 | -0.7 | 1.2 | 6.2 | 9999 | 9.6 | 1.9 | 11.2 | 3.3 | -3.3 |
| 04.12 | -0.5 | 1.4 | 6.9 | 9999 | 6.9 | -0.6 | 7.8 | -1.2 | -7.7 |
| 04.13 | -0.3 | 1.8 | 4.7 | 9999 | 6.1 | -2.6 | 6.8 | -1.6 | -8.9 |
| 04.14 | -0.7 | 1.6 | 4.6 | 9999 | 5.7 | -2.7 | 6.0 | -1.7 | -7.5 |
| 04.15 | 0.7 | 2.5 | 5.4 | 9999 | 9.5 | 2.1 | 9.7 | 1.7 | -3.6 |
| 04.16 | -0.7 | 1.1 | 9999 | 9999 | 9.6 | 2.3 | 10.3 | 2.3 | -5.6 |
| 04.17 | 3.0 | 4.4 | 9999 | 9999 | 8.2 | -0.3 | 8.0 | 0.9 | -4.5 |
| 04.18 | 5.7 | 5.7 | 9999 | 9999 | 14.0 | 9.9 | 16.1 | 9.5 | 2.9 |
| 04.19 | 7.6 | 9.4 | 9999 | 9999 | 11.9 | 5.0 | 13.4 | 5.1 | -1.6 |
| 04.20 | 3.3 | 5.8 | 9999 | 9999 | 9.8 | 2.7 | 10.7 | 4.2 | -4.6 |
| 04.21 | 2.1 | 4.1 | 9999 | 9999 | 13.0 | 7.3 | 12.2 | 8.7 | 2.1 |
| 04.22 | 5.2 | 5.4 | 9999 | 9999 | 12.4 | 6.7 | 15.1 | 8.7 | 0.6 |
| 04.23 | 0.8 | 2.9 | 9999 | 9999 | 14.2 | 5.2 | 14.7 | 5.6 | -2.1 |
| 04.24 | 8.2 | 9.9 | 9999 | 9999 | 16.5 | 9.8 | 18.3 | 8.2 | 0.6 |
| 04.25 | 1.9 | 4.4 | 9999 | 9999 | 11.9 | 2.6 | 11.8 | 3.3 | -5.4 |
| 04.26 | 5.2 | 7.2 | 9999 | 9999 | 12.3 | 6.9 | 12.0 | 7.0 | 1.4 |
| 04.27 | 5.4 | 7.4 | 9999 | 9999 | 15.9 | 12.6 | 15.3 | 11.0 | 5.6 |
| 04.28 | 11.9 | 12.2 | 9999 | 9999 | 16.8 | 12.3 | 16.0 | 10.9 | 5.8 |
| 04.29 | 5.3 | 6.2 | 9999 | 9999 | 12.5 | 4.1 | 13.1 | 4.9 | 0.3 |
| 04.30 | 0.9 | 3.6 | 9999 | 9999 | 8.4 | 4.8 | 9.6 | 3.5 | 0.3 |

表5-3-7 日平均気温 (1992年5月)

Table 5-3-7 Daily average air temperature (May 1992)

9999:未測定・不測定 / -9999:欠測, 立山:6・7月は9時〜夕

| 年 月日 | 白金 | 美瑛 | 新庄 | 志津 | 長岡 | 奥只見 | 高田 | 笹ヶ峰 | 立山 |
|------------|-----------|------|--------|-------|---------|-----------|--------|------------|----------|
| | SHIROGANE | BIEI | SHINJO | SHIZU | NAGAOKA | OKUTADAMI | TAKADA | SASAGAMINE | TATEYAMA |
| | ℃ | ℃ | ℃ | ℃ | ℃ | ℃ | ℃ | ℃ | ℃ |
| 1992 05.01 | 0.7 | 2.8 | 9999 | 9999 | 9.8 | 0.4 | 10.7 | 0.9 | -6.1 |
| 05.02 | 1.5 | 3.8 | 9999 | 9999 | 12.2 | 4.7 | 12.2 | 3.3 | -3.6 |
| 05.03 | 4.2 | 6.5 | 9999 | 9999 | 13.9 | 4.5 | 15.3 | 5.9 | -2.6 |
| 05.04 | 2.0 | 4.4 | 9999 | 9999 | 11.8 | 1.9 | 13.6 | 2.7 | -5.9 |
| 05.05 | -0.3 | 2.1 | 9999 | 9999 | 10.4 | 0.7 | 11.7 | 2.0 | -4.5 |
| 05.06 | 3.4 | 5.8 | 9999 | 9999 | 9.4 | 3.9 | 10.1 | 4.7 | 3.1 |
| 05.07 | 7.3 | 8.3 | 9999 | 9999 | 13.8 | 7.2 | 15.1 | 7.2 | 4.1 |
| 05.08 | 6.0 | 6.9 | 9999 | 9999 | 16.8 | 13.1 | 18.8 | 11.5 | 6.9 |
| 05.09 | 11.9 | 13.9 | 9999 | 9999 | 15.2 | 11.2 | 15.2 | 11.1 | 6.7 |
| 05.10 | 7.7 | 10.1 | 9999 | 9999 | 11.8 | 3.3 | 12.0 | 2.8 | 5.8 |
| 05.11 | 8.6 | 10.6 | 9999 | 9999 | 11.2 | 6.1 | 11.5 | 5.0 | 6.3 |
| 05.12 | 11.4 | 13.1 | 9999 | 9999 | 14.7 | 10.3 | 14.6 | 9.3 | 8.6 |
| 05.13 | 12.2 | 12.7 | 9999 | 9999 | 17.1 | 12.0 | 17.8 | 11.7 | 7.2 |
| 05.14 | 6.6 | 8.2 | 9999 | 9999 | 15.4 | 10.3 | 16.8 | 11.3 | 6.4 |
| 05.15 | 10.0 | 12.5 | 9999 | 9999 | 14.7 | 10.1 | 14.5 | 10.3 | 7.9 |
| 05.16 | 12.5 | 13.7 | 9999 | 9999 | 13.7 | 9.8 | 13.6 | 10.6 | 5.4 |
| 05.17 | 11.2 | 12.9 | 9999 | 9999 | 14.5 | 7.4 | 14.9 | 8.2 | 2.9 |
| 05.18 | 12.2 | 13.9 | 9999 | 9999 | 15.1 | 8.6 | 15.4 | 8.1 | 2.7 |
| 05.19 | 9.6 | 11.5 | 9999 | 9999 | 15.3 | 7.6 | 15.0 | 7.7 | 4.3 |
| 05.20 | 15.3 | 17.0 | 9999 | 9999 | 16.9 | 11.0 | 16.5 | 10.4 | 4.2 |
| 05.21 | 11.8 | 13.8 | 9999 | 9999 | 18.3 | 12.1 | 18.4 | 11.6 | 4.1 |
| 05.22 | 9.1 | 10.2 | 9999 | 9999 | 17.1 | 10.0 | 17.2 | 8.7 | 2.2 |
| 05.23 | 10.6 | 12.9 | 9999 | 9999 | 13.2 | 6.9 | 12.9 | 5.3 | 0.8 |
| 05.24 | 10.5 | 12.3 | 9999 | 9999 | 12.0 | 7.9 | 13.4 | 7.3 | 0.7 |
| 05.25 | 12.7 | 13.6 | 9999 | 9999 | 12.6 | 4.0 | 14.1 | 4.5 | -1.7 |
| 05.26 | 10.3 | 12.3 | 9999 | 9999 | 14.1 | 6.9 | 14.3 | 5.4 | -0.6 |
| 05.27 | 9.9 | 11.8 | 9999 | 9999 | 14.5 | 7.3 | 14.8 | 6.2 | 0.6 |
| 05.28 | 12.5 | 14.8 | 9999 | 9999 | 14.8 | 7.0 | 14.2 | 5.6 | 0.9 |
| 05.29 | 13.7 | 14.7 | 9999 | 9999 | 15.5 | 8.1 | 15.2 | 7.9 | 4.8 |
| 05.30 | 15.2 | 16.8 | 9999 | 9999 | 15.8 | 9.0 | 16.5 | 8.0 | 2.9 |
| 05.31 | 16.5 | 18.1 | 9999 | 9999 | 16.1 | 7.6 | 16.5 | 7.4 | 3.5 |

表5-3-8 日平均気温 (1992年6月)

Table 5-3-8 Daily average air temperature (June 1992)

9999:未測定・不測定 / -9999:欠測, 立山:6・7月は9時〜夕

| 年 月日 | 白金 | 美瑛 | 新庄 | 志津 | 長岡 | 奥只見 | 高田 | 笹ヶ峰 | 立山 |
|------------|-----------|------|--------|-------|---------|-----------|--------|------------|----------|
| | SHIROGANE | BIEI | SHINJO | SHIZU | NAGAOKA | OKUTADAMI | TAKADA | SASAGAMINE | TATEYAMA |
| | ℃ | ℃ | ℃ | ℃ | ℃ | ℃ | ℃ | ℃ | ℃ |
| 1992 06.01 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 6.5 |
| 06.02 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9.8 |
| 06.03 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9.3 |
| 06.04 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 7.3 |
| 06.05 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 8.4 |
| 06.06 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 8.0 |
| 06.07 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9.4 |
| 06.08 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9.1 |
| 06.09 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9.1 |
| 06.10 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 10.9 |
| 06.11 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 11.8 |
| 06.12 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 4.2 |
| 06.13 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 5.0 |
| 06.14 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 4.7 |
| 06.15 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 6.3 |
| 06.16 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 8.7 |
| 06.17 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 6.6 |
| 06.18 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 6.2 |
| 06.19 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 2.1 |
| 06.20 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 6.4 |
| 06.21 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 1.1 |
| 06.22 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 4.6 |
| 06.23 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 6.6 |
| 06.24 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 5.4 |
| 06.25 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 7.7 |
| 06.26 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 8.7 |
| 06.27 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 8.0 |
| 06.28 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 8.0 |
| 06.29 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 8.6 |
| 06.30 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 7.2 |

表5-3-9 日平均気温 (1992年7月)

Table 5-3-9 Daily average air temperature (July 1992)

9999:未測定・不測定 / -9999:欠測, 立山:6・7月は9時⁷ -⁷

| 年 月日 | 白金 | 美瑛 | 新庄 | 志津 | 長岡 | 奥只見 | 高田 | 笹ヶ峰 | 立山 |
|------------|-----------|------|--------|-------|---------|-----------|--------|------------|----------|
| | SHIROGANE | BIEI | SHINJO | SHIZU | NAGAOKA | OKUTADAMI | TAKADA | SASAGAMINE | TATEYAMA |
| | ℃ | ℃ | ℃ | ℃ | ℃ | ℃ | ℃ | ℃ | ℃ |
| 1992 07.01 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 5.1 |
| 07.02 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 10.6 |
| 07.03 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9.2 |
| 07.04 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 8.2 |
| 07.05 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 13.0 |
| 07.06 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 11.6 |
| 07.07 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 13.4 |
| 07.08 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 10.9 |
| 07.09 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 7.5 |
| 07.10 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 10.1 |
| 07.11 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 8.3 |
| 07.12 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 8.4 |
| 07.13 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 8.5 |
| 07.14 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9.0 |
| 07.15 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 8.8 |
| 07.16 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 10.0 |
| 07.17 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 11.5 |
| 07.18 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 11.6 |
| 07.19 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 8.0 |
| 07.20 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 13.5 |
| 07.21 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 14.2 |
| 07.22 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 13.3 |
| 07.23 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 14.0 |
| 07.24 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 12.0 |
| 07.25 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 17.4 |
| 07.26 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 14.7 |
| 07.27 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 16.2 |
| 07.28 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 17.6 |
| 07.29 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 15.7 |
| 07.30 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 15.9 |
| 07.31 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 9999 | 11.5 |

表5-4-1 日合計全天日射量 (1991年11月)

Table 5-4-1 Daily total global radiation (November 1991)

9999:未測定・不測定 / -9999:欠測

| 年 月日 | 白金 | 美瑛 | 新庄 | 志津 | 長岡 | 奥只見 | 高田 | 笹ヶ峰 | 立山 |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | SHIROGANE | BIEI | SHINJO | SHIZU | NAGAOKA | OKUTADAMI | TAKADA | SASAGAMINE | TATEYAMA |
| | MJ/m ² | MJ/m ² | MJ/m ² | MJ/m ² | MJ/m ² | MJ/m ² | MJ/m ² | MJ/m ² | MJ/m ² |
| 1991 11.01 | -9999 | -9999 | 9999 | -9999 | 6.6 | 4.4 | 6.6 | 7.3 | 9999 |
| 11.02 | -9999 | -9999 | 9999 | -9999 | 11.4 | 11.7 | 10.4 | 10.5 | 9999 |
| 11.03 | -9999 | -9999 | 9999 | -9999 | 10.2 | 11.8 | 8.9 | 12.2 | 9999 |
| 11.04 | -9999 | -9999 | 9999 | -9999 | 1.5 | 2.1 | 1.5 | 5.6 | 9999 |
| 11.05 | -9999 | -9999 | 9999 | -9999 | 3.4 | 2.5 | 3.5 | 5.8 | 9999 |
| 11.06 | -9999 | -9999 | 9999 | -9999 | 11.4 | 13.1 | 11.6 | 13.3 | 9999 |
| 11.07 | -9999 | -9999 | 9999 | -9999 | 11.8 | 12.5 | 2.1 | 12.0 | 9999 |
| 11.08 | -9999 | -9999 | 9999 | -9999 | 3.3 | 3.6 | 3.0 | 3.8 | 9999 |
| 11.09 | -9999 | -9999 | 9999 | -9999 | 7.1 | 1.2 | 4.2 | 11.0 | 9999 |
| 11.10 | -9999 | -9999 | 9999 | -9999 | 4.9 | 2.0 | 8.0 | 10.3 | 9999 |
| 11.11 | -9999 | -9999 | 9999 | -9999 | 0.0 | 3.1 | 4.6 | 8.2 | 9999 |
| 11.12 | -9999 | -9999 | 9999 | -9999 | 3.4 | 8.6 | 7.8 | 10.3 | 9999 |
| 11.13 | -9999 | -9999 | 9999 | -9999 | 1.4 | 3.7 | 8.4 | 3.2 | 9999 |
| 11.14 | -9999 | -9999 | 9999 | -9999 | 1.9 | 1.3 | 2.5 | 4.3 | 9999 |
| 11.15 | -9999 | -9999 | 9999 | -9999 | 0.0 | 2.0 | 2.1 | 6.9 | 9999 |
| 11.16 | -9999 | -9999 | 9999 | -9999 | 10.0 | 11.0 | 10.0 | 11.1 | 9999 |
| 11.17 | -9999 | -9999 | 9999 | -9999 | 6.9 | 7.8 | 7.8 | 8.8 | 9999 |
| 11.18 | -9999 | -9999 | 9999 | -9999 | 4.0 | 4.2 | 7.1 | 7.3 | 9999 |
| 11.19 | -9999 | -9999 | 9999 | -9999 | 8.3 | 10.1 | 8.6 | 9.9 | 9999 |
| 11.20 | -9999 | -9999 | 9999 | -9999 | 1.1 | 1.7 | 3.1 | 0.9 | 9999 |
| 11.21 | -9999 | -9999 | 9999 | -9999 | 4.2 | 6.3 | 4.5 | 10.4 | 9999 |
| 11.22 | -9999 | -9999 | 9999 | -9999 | 10.1 | 11.0 | 9.3 | 10.0 | 9999 |
| 11.23 | -9999 | -9999 | 9999 | -9999 | 1.6 | 3.3 | 1.6 | 3.3 | 9999 |
| 11.24 | -9999 | -9999 | 9999 | -9999 | 0.9 | 0.8 | -9999 | 5.5 | 9999 |
| 11.25 | -9999 | -9999 | 9999 | -9999 | 2.7 | 2.6 | 1.2 | 3.9 | 9999 |
| 11.26 | -9999 | -9999 | 9999 | -9999 | 8.5 | 7.8 | 7.0 | 7.8 | 9999 |
| 11.27 | -9999 | -9999 | 9999 | -9999 | 7.4 | 8.7 | 5.8 | 6.5 | 9999 |
| 11.28 | -9999 | -9999 | 2.6 | -9999 | 2.9 | 2.2 | 2.3 | 2.0 | 9999 |
| 11.29 | -9999 | -9999 | 4.5 | -9999 | 3.2 | 1.5 | 2.9 | 5.0 | 9999 |
| 11.30 | -9999 | -9999 | 3.2 | -9999 | 7.8 | 8.4 | 7.7 | 8.7 | 9999 |

表5-4-2 日合計全天日射量 (1991年12月)

Table 5-4-2 Daily total global radiation (December 1991)

9999:未測定・不測定/-9999:欠測

| 年 月日 | 白金 | 美瑛 | 新庄 | 志津 | 長岡 | 奥只見 | 高田 | 笹ヶ峰 | 立山 |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | SHIROGANE | BIEI | SHINJO | SHIZU | NAGAOKA | OKUTADAMI | TAKADA | SASAGAMINE | TATEYAMA |
| | MJ/m ² | MJ/m ² | MJ/m ² | MJ/m ² | MJ/m ² | MJ/m ² | MJ/m ² | MJ/m ² | MJ/m ² |
| 1991 12.01 | -9999 | -9999 | 3.9 | -9999 | 6.0 | 6.5 | 4.5 | 8.2 | 9999 |
| 12.02 | -9999 | -9999 | 8.4 | -9999 | 4.1 | 3.2 | 4.4 | 10.0 | 9999 |
| 12.03 | -9999 | -9999 | 5.0 | -9999 | 7.5 | 8.6 | 8.2 | 8.0 | 9999 |
| 12.04 | -9999 | -9999 | 4.8 | -9999 | 7.9 | 9.6 | 6.6 | 10.3 | 9999 |
| 12.05 | -9999 | -9999 | 5.3 | -9999 | 9.3 | 9.5 | 8.4 | 9.2 | 9999 |
| 12.06 | -9999 | -9999 | 2.3 | -9999 | 0.0 | 6.8 | 7.0 | 7.8 | 9999 |
| 12.07 | -9999 | -9999 | 2.0 | -9999 | 2.7 | 3.3 | 2.0 | 7.8 | 9999 |
| 12.08 | -9999 | -9999 | 1.8 | -9999 | 4.4 | 5.8 | 4.1 | 3.4 | 9999 |
| 12.09 | -9999 | -9999 | 3.8 | -9999 | 1.8 | 2.5 | 1.2 | 0.8 | 9999 |
| 12.10 | -9999 | -9999 | 4.5 | -9999 | 3.1 | 3.5 | 3.1 | 6.8 | 9999 |
| 12.11 | -9999 | -9999 | 1.5 | -9999 | 0.8 | 3.6 | 1.1 | 1.4 | 9999 |
| 12.12 | -9999 | -9999 | 1.9 | -9999 | 2.1 | 3.2 | 0.9 | 4.0 | 9999 |
| 12.13 | -9999 | -9999 | 3.8 | -9999 | 2.6 | 2.0 | 5.0 | 9.9 | 9999 |
| 12.14 | -9999 | -9999 | 2.4 | -9999 | 7.1 | 5.2 | 7.4 | 9.3 | 9999 |
| 12.15 | -9999 | -9999 | 5.3 | -9999 | 5.9 | 7.4 | 6.6 | 7.0 | 9999 |
| 12.16 | -9999 | -9999 | 3.3 | -9999 | 8.9 | 9.3 | 8.2 | 9.1 | 9999 |
| 12.17 | -9999 | -9999 | 2.4 | 6.2 | 7.9 | 9.5 | 7.3 | 7.3 | 9999 |
| 12.18 | -9999 | -9999 | 1.6 | 2.3 | -9999 | 1.2 | 1.2 | 6.4 | 9999 |
| 12.19 | -9999 | -9999 | 3.0 | 3.5 | 2.1 | 1.9 | 1.1 | 8.9 | 9999 |
| 12.20 | -9999 | -9999 | 6.5 | 4.9 | 5.0 | 4.5 | 3.6 | 9.1 | 9999 |
| 12.21 | -9999 | -9999 | 6.8 | 8.2 | 9.1 | 9.8 | 8.2 | 10.3 | 9999 |
| 12.22 | -9999 | -9999 | 9.5 | 8.8 | 8.6 | 9.0 | 8.0 | 9.0 | 9999 |
| 12.23 | -9999 | -9999 | 3.6 | 3.7 | 5.8 | 6.9 | 4.5 | 4.9 | 9999 |
| 12.24 | -9999 | -9999 | 1.3 | 2.3 | 3.6 | 1.3 | 3.3 | 6.1 | 9999 |
| 12.25 | -9999 | -9999 | 5.5 | 2.0 | 2.1 | 1.6 | 1.1 | 2.8 | 9999 |
| 12.26 | -9999 | -9999 | 3.6 | 1.4 | 1.5 | 0.5 | 1.8 | 2.3 | 9999 |
| 12.27 | -9999 | -9999 | 3.7 | 3.0 | 2.5 | 1.8 | 2.0 | 2.3 | 9999 |
| 12.28 | -9999 | -9999 | 2.1 | 2.0 | 1.7 | 2.0 | 2.0 | 1.8 | 9999 |
| 12.29 | -9999 | -9999 | 4.0 | 2.4 | 1.1 | 0.8 | 1.0 | 0.5 | 9999 |
| 12.30 | -9999 | -9999 | 5.0 | 4.4 | 3.1 | 1.0 | 4.2 | 4.3 | 9999 |
| 12.31 | -9999 | -9999 | 6.2 | 4.7 | 6.0 | 3.6 | 7.5 | 8.9 | 9999 |

表5-4-3 日合計全天日射量 (1992年1月)

Table 5-4-3 Daily total global radiation (January 1992)

9999:未測定・不測定 / -9999:欠測

| 年 | 月日 | 白金 | 美瑛 | 新庄 | 志津 | 長岡 | 奥只見 | 高田 | 笹ヶ峰 | 立山 |
|------|-------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | | SHIROGANE | BIEI | SHINJO | SHIZU | NAGAOKA | OKUTADAMI | TAKADA | SASAGAMINE | TATEYAMA |
| | | MJ/m ² | MJ/m ² | MJ/m ² | MJ/m ² | MJ/m ² | MJ/m ² | MJ/m ² | MJ/m ² | MJ/m ² |
| 1992 | 01.01 | -9999 | -9999 | 4.7 | 3.7 | 1.9 | 1.8 | 3.6 | 3.8 | 9999 |
| | 01.02 | -9999 | -9999 | 4.5 | 4.4 | 5.1 | 7.1 | 5.6 | 8.6 | 9999 |
| | 01.03 | -9999 | -9999 | 4.5 | 5.4 | 1.3 | 4.1 | 2.3 | 9.4 | 9999 |
| | 01.04 | -9999 | -9999 | 5.8 | 5.2 | 2.5 | 2.2 | 0.9 | 6.0 | 9999 |
| | 01.05 | -9999 | -9999 | 4.5 | 1.7 | 1.9 | 3.3 | 4.0 | 9.1 | 9999 |
| | 01.06 | -9999 | -9999 | 5.2 | 4.3 | 4.0 | 4.9 | 3.2 | 3.7 | 9999 |
| | 01.07 | -9999 | -9999 | 4.0 | 3.1 | 5.1 | 4.8 | 7.3 | 8.0 | 9999 |
| | 01.08 | -9999 | -9999 | 4.1 | 2.9 | 1.8 | 3.6 | 1.7 | 9.6 | 9999 |
| | 01.09 | -9999 | -9999 | 2.1 | 1.8 | 1.2 | 2.1 | 1.3 | 2.6 | 9999 |
| | 01.10 | -9999 | -9999 | 6.6 | 3.9 | 2.1 | 2.4 | 1.5 | 2.6 | 9999 |
| | 01.11 | -9999 | -9999 | 5.4 | 2.9 | 2.7 | 4.4 | 7.4 | 10.6 | 9999 |
| | 01.12 | -9999 | -9999 | 6.0 | 6.1 | 8.4 | 8.7 | 7.2 | 8.5 | 9999 |
| | 01.13 | -9999 | -9999 | 5.8 | 3.7 | 3.1 | 7.8 | 5.6 | 9.6 | 9999 |
| | 01.14 | -9999 | -9999 | 4.2 | 2.8 | 2.0 | 2.5 | 0.9 | 3.5 | 9999 |
| | 01.15 | -9999 | -9999 | 7.5 | 3.7 | 4.8 | 6.2 | 7.5 | 10.2 | 9999 |
| | 01.16 | -9999 | -9999 | 9.0 | 6.9 | 0.8 | 10.7 | 9.4 | 10.6 | 9999 |
| | 01.17 | -9999 | -9999 | 8.1 | 6.7 | 5.4 | 10.2 | 6.9 | 6.7 | 9999 |
| | 01.18 | -9999 | -9999 | 3.3 | 1.6 | 1.1 | 1.8 | 1.5 | 3.2 | 9999 |
| | 01.19 | -9999 | -9999 | 2.8 | 4.9 | 5.6 | 2.6 | 4.9 | 6.7 | 9999 |
| | 01.20 | -9999 | -9999 | 6.5 | 4.4 | 2.9 | 3.6 | 4.0 | 11.8 | 9999 |
| | 01.21 | -9999 | -9999 | 9.1 | 8.0 | 8.9 | 10.8 | 8.8 | 10.7 | 9999 |
| | 01.22 | -9999 | -9999 | 5.0 | 4.7 | 4.4 | 5.1 | 5.8 | 4.0 | 9999 |
| | 01.23 | -9999 | -9999 | 5.4 | 2.6 | 3.4 | 4.8 | 1.8 | 2.3 | 9999 |
| | 01.24 | -9999 | -9999 | 7.0 | 2.9 | 2.7 | 4.8 | 7.3 | 10.4 | 9999 |
| | 01.25 | -9999 | -9999 | 7.4 | 5.4 | 4.9 | 10.3 | 9.3 | 10.0 | 9999 |
| | 01.26 | -9999 | -9999 | 11.4 | -9999 | 10.8 | 10.2 | 9.1 | 11.0 | 9999 |
| | 01.27 | -9999 | -9999 | 4.1 | -9999 | 6.0 | 7.8 | 8.3 | 10.7 | 9999 |
| | 01.28 | -9999 | -9999 | 3.2 | -9999 | 5.6 | 9.6 | 7.9 | 11.9 | 9999 |
| | 01.29 | -9999 | -9999 | 5.5 | -9999 | 3.9 | 1.0 | 2.5 | 2.5 | 9999 |
| | 01.30 | -9999 | -9999 | 7.1 | -9999 | 3.7 | 6.4 | 4.0 | 9.8 | 9999 |
| | 01.31 | -9999 | -9999 | 8.5 | -9999 | 2.4 | 3.4 | 3.6 | 4.9 | 9999 |

表5-4-4 日合計全天日射量 (1992年2月)

Table 5-4-4 Daily total global radiation (February 1992)

9999:未測定・不測定 / -9999:欠測

| 年 月日 | 白金 | 美瑛 | 新庄 | 志津 | 長岡 | 奥只見 | 高田 | 笹ヶ峰 | 立山 |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | SHIROGANE | BIEI | SHINJO | SHIZU | NAGAOKA | OKUTADAMI | TAKADA | SASAGAMINE | TATEYAMA |
| | MJ/m ² | MJ/m ² | MJ/m ² | MJ/m ² | MJ/m ² | MJ/m ² | MJ/m ² | MJ/m ² | MJ/m ² |
| 1992 02.01 | -9999 | -9999 | 6.3 | -9999 | 2.6 | 4.1 | 3.2 | 2.6 | 9999 |
| 02.02 | -9999 | -9999 | 7.5 | -9999 | 3.8 | 4.4 | 10.0 | 11.1 | 9999 |
| 02.03 | -9999 | -9999 | 3.6 | -9999 | 7.0 | 10.5 | 6.0 | 6.2 | 9999 |
| 02.04 | -9999 | -9999 | 4.6 | -9999 | 2.8 | 3.1 | 2.4 | 6.0 | 9999 |
| 02.05 | -9999 | -9999 | 6.4 | -9999 | 4.5 | 4.8 | 4.7 | 11.7 | 9999 |
| 02.06 | -9999 | -9999 | 10.7 | -9999 | 12.1 | 11.2 | 11.8 | 13.7 | 9999 |
| 02.07 | -9999 | -9999 | 5.7 | -9999 | 1.5 | 1.9 | 6.2 | 4.9 | 9999 |
| 02.08 | -9999 | 6.5 | 9.0 | -9999 | 6.0 | 5.2 | 4.1 | 6.4 | 9999 |
| 02.09 | -9999 | 8.2 | 9.8 | -9999 | 7.3 | 6.1 | 9.1 | -9999 | 9999 |
| 02.10 | -9999 | 7.2 | 7.8 | -9999 | 11.3 | 14.0 | 12.9 | -9999 | 9999 |
| 02.11 | -9999 | 9.1 | 8.7 | -9999 | 6.9 | 9.2 | -9999 | 12.9 | 9999 |
| 02.12 | -9999 | 8.1 | 13.4 | -9999 | 13.8 | 14.2 | 12.6 | 13.9 | 9999 |
| 02.13 | -9999 | 5.4 | 11.2 | -9999 | 5.6 | 12.3 | 10.9 | 13.4 | 9999 |
| 02.14 | -9999 | 8.8 | 9.6 | -9999 | 4.5 | 7.7 | 4.1 | 9.7 | 9999 |
| 02.15 | -9999 | 10.9 | 8.6 | -9999 | 12.1 | 13.9 | 12.3 | 13.1 | 9999 |
| 02.16 | -9999 | 6.1 | 5.3 | -9999 | 1.2 | 4.0 | 2.9 | 3.1 | 9999 |
| 02.17 | -9999 | 6.0 | 7.8 | -9999 | 4.7 | 5.5 | 7.7 | 14.4 | 9999 |
| 02.18 | -9999 | 10.9 | 11.5 | -9999 | 10.1 | 14.4 | 10.0 | 11.7 | 9999 |
| 02.19 | -9999 | 7.8 | 10.4 | -9999 | 3.8 | 4.0 | 4.0 | 6.3 | 9999 |
| 02.20 | -9999 | 7.5 | 8.4 | -9999 | 12.6 | 12.2 | 11.1 | 11.9 | 9999 |
| 02.21 | -9999 | 10.5 | 9.9 | -9999 | 4.8 | 5.4 | 3.6 | 2.7 | 9999 |
| 02.22 | -9999 | 12.3 | 10.0 | -9999 | 7.5 | 2.2 | 7.5 | 3.4 | 9999 |
| 02.23 | -9999 | 9.4 | 10.8 | -9999 | 5.7 | 6.1 | 13.1 | 15.3 | 9999 |
| 02.24 | -9999 | 13.5 | 9.6 | -9999 | 6.4 | 9.8 | 6.6 | 7.4 | 9999 |
| 02.25 | -9999 | 14.0 | 12.3 | -9999 | 4.7 | 4.2 | 6.9 | 3.2 | 9999 |
| 02.26 | -9999 | 10.8 | 8.1 | -9999 | 6.4 | 6.2 | 10.3 | 15.9 | 9999 |
| 02.27 | -9999 | 11.7 | 6.6 | -9999 | 7.8 | 7.0 | 13.5 | 16.2 | 9999 |
| 02.28 | -9999 | 15.0 | 16.4 | -9999 | 14.7 | 16.9 | 13.9 | 17.0 | 9999 |
| 02.29 | -9999 | 6.9 | 2.6 | -9999 | 1.7 | 1.9 | 1.4 | 1.5 | 9999 |

表5-4-5 日合計全天日射量 (1992年3月)
Table 5-4-5 Daily total global radiation (March 1992)

9999:未測定・不測定 / -9999:欠測

| 年 月日 | 白金 | 美瑛 | 新庄 | 志津 | 長岡 | 奥只見 | 高田 | 笹ヶ峰 | 立山 |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | SHIROGANE | BIEI | SHINJO | SHIZU | NAGAOKA | OKUTADAMI | TAKADA | SASAGAMINE | TATEYAMA |
| | MJ/m ² | MJ/m ² | MJ/m ² | MJ/m ² | MJ/m ² | MJ/m ² | MJ/m ² | MJ/m ² | MJ/m ² |
| 1992 03.01 | -9999 | 11.6 | 14.7 | -9999 | 1.6 | 4.3 | 1.1 | 2.2 | 9999 |
| 03.02 | -9999 | 13.0 | 6.4 | -9999 | 8.4 | 12.9 | 6.0 | 17.3 | 9999 |
| 03.03 | -9999 | 15.5 | 12.3 | -9999 | 6.4 | 7.9 | 2.5 | 11.5 | 9999 |
| 03.04 | -9999 | 11.3 | 11.0 | -9999 | 11.4 | 16.1 | 11.5 | 17.7 | 9999 |
| 03.05 | -9999 | 11.7 | 7.2 | -9999 | 5.0 | 4.8 | 3.5 | 3.8 | 9999 |
| 03.06 | -9999 | 7.5 | 10.3 | -9999 | 5.5 | 7.7 | 3.5 | 9.6 | 9999 |
| 03.07 | -9999 | 16.3 | 13.4 | -9999 | 11.3 | 11.1 | 10.5 | 17.2 | 9999 |
| 03.08 | -9999 | 12.6 | 14.3 | -9999 | 17.4 | 18.4 | 15.3 | 18.8 | 9999 |
| 03.09 | -9999 | 15.0 | 14.4 | -9999 | 16.7 | 18.4 | 14.8 | 18.5 | 9999 |
| 03.10 | -9999 | 14.5 | 15.5 | -9999 | 10.5 | 8.6 | 8.8 | 14.9 | 9999 |
| 03.11 | -9999 | 17.3 | 14.1 | -9999 | 6.8 | 10.8 | 4.4 | 18.1 | 9999 |
| 03.12 | -9999 | 13.4 | 17.2 | -9999 | 14.6 | 17.7 | 14.1 | 17.8 | 9999 |
| 03.13 | -9999 | 14.4 | 12.2 | -9999 | 14.3 | 18.1 | 14.5 | 19.2 | 9999 |
| 03.14 | -9999 | 14.6 | 19.0 | -9999 | 15.1 | 17.5 | 14.0 | 18.4 | 9999 |
| 03.15 | -9999 | 11.0 | 3.9 | -9999 | 1.4 | 5.6 | 2.8 | 7.3 | 9999 |
| 03.16 | -9999 | 13.1 | 7.9 | -9999 | 1.2 | 2.9 | 1.3 | 6.4 | 9999 |
| 03.17 | -9999 | 18.7 | 19.4 | -9999 | 10.2 | 11.6 | 9.9 | 8.2 | 9999 |
| 03.18 | -9999 | 16.4 | 4.0 | -9999 | 2.9 | 8.2 | 3.3 | 7.4 | 9999 |
| 03.19 | -9999 | 17.9 | 14.9 | -9999 | 8.2 | 5.0 | 7.7 | 16.9 | 9999 |
| 03.20 | -9999 | 14.8 | 20.4 | -9999 | 9.0 | 15.3 | 7.7 | 18.5 | 9999 |
| 03.21 | -9999 | 13.8 | 5.5 | -9999 | 3.1 | 4.8 | 3.1 | 3.2 | 9999 |
| 03.22 | -9999 | 12.3 | 17.5 | -9999 | 9.8 | 10.9 | 12.6 | 16.2 | 9999 |
| 03.23 | -9999 | 17.8 | 17.1 | -9999 | 10.3 | 11.9 | 6.7 | 7.3 | 9999 |
| 03.24 | -9999 | 20.2 | 16.0 | -9999 | 10.5 | 12.4 | 7.1 | 14.6 | 9999 |
| 03.25 | -9999 | 6.1 | 5.2 | -9999 | 2.0 | 7.3 | 2.1 | 11.2 | 9999 |
| 03.26 | -9999 | 17.6 | 14.6 | -9999 | 10.9 | 10.5 | 4.4 | 11.1 | 9999 |
| 03.27 | -9999 | 14.9 | 17.4 | -9999 | 11.4 | 12.7 | 9.5 | 10.9 | 9999 |
| 03.28 | -9999 | 21.4 | 19.5 | -9999 | 16.0 | 17.5 | 12.4 | 14.6 | 9999 |
| 03.29 | -9999 | 21.8 | 18.3 | -9999 | 11.9 | 12.8 | 7.3 | 8.0 | 9999 |
| 03.30 | -9999 | 7.5 | 4.6 | -9999 | 2.0 | 6.1 | 2.9 | 8.6 | 9999 |
| 03.31 | -9999 | 22.2 | 5.8 | -9999 | 14.7 | 19.4 | 17.8 | 22.6 | 9999 |

表5-4-6 日合計全天日射量 (1992年4月)

Table 5-4-6 Daily total global radiation (April 1992)

9999:未測定・不測定/-9999:欠測

| 年 月日 | 白金 | 美瑛 | 新庄 | 志津 | 長岡 | 奥只見 | 高田 | 笹ヶ峰 | 立山 |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | SHIROGANE | BIEI | SHINJO | SHIZU | NAGAOKA | OKUTADAMI | TAKADA | SASAGAMINE | TATEYAMA |
| | MJ/m ² | MJ/m ² | MJ/m ² | MJ/m ² | MJ/m ² | MJ/m ² | MJ/m ² | MJ/m ² | MJ/m ² |
| 1992 04.01 | -9999 | 17.3 | 6.9 | -9999 | 6.3 | 7.2 | 5.0 | 6.1 | 9999 |
| 04.02 | -9999 | 16.6 | 2.1 | -9999 | 5.8 | 9.1 | 4.3 | 12.4 | 9999 |
| 04.03 | -9999 | 22.1 | 21.5 | -9999 | 20.2 | 23.3 | 18.4 | 23.1 | 9999 |
| 04.04 | -9999 | 20.1 | 20.6 | -9999 | 16.5 | 19.9 | 13.7 | 15.7 | 9999 |
| 04.05 | -9999 | 19.0 | 3.9 | -9999 | 3.7 | 6.0 | 4.0 | 6.3 | 9999 |
| 04.06 | -9999 | 2.6 | 6.8 | -9999 | 7.7 | 17.8 | 3.9 | 22.1 | 9999 |
| 04.07 | -9999 | 23.6 | 6.3 | -9999 | 4.5 | 8.1 | 2.5 | 13.8 | 9999 |
| 04.08 | -9999 | 22.0 | 23.7 | -9999 | 20.8 | 24.0 | 19.0 | 23.0 | 9999 |
| 04.09 | -9999 | 13.5 | 12.7 | -9999 | 2.4 | 1.9 | 3.2 | 4.0 | 9999 |
| 04.10 | -9999 | 15.6 | 9.9 | -9999 | 4.8 | 5.6 | 3.9 | 3.4 | 9999 |
| 04.11 | -9999 | 12.8 | 6.8 | -9999 | 5.5 | 3.4 | 16.3 | 20.4 | 9999 |
| 04.12 | -9999 | 10.3 | 13.0 | -9999 | 13.5 | 17.2 | 12.4 | 13.3 | 9999 |
| 04.13 | -9999 | 21.0 | 6.5 | -9999 | 5.2 | 7.1 | 16.5 | 16.6 | 9999 |
| 04.14 | -9999 | 13.6 | 12.6 | -9999 | 11.3 | 12.7 | 10.7 | 22.4 | 9999 |
| 04.15 | -9999 | 16.4 | 9999 | -9999 | 20.5 | 23.8 | 18.1 | 21.6 | 9999 |
| 04.16 | -9999 | 3.3 | 9999 | -9999 | 7.5 | 13.9 | 11.8 | 22.1 | 9999 |
| 04.17 | -9999 | 12.6 | 9999 | -9999 | 16.4 | 14.6 | 11.0 | 25.4 | 9999 |
| 04.18 | -9999 | 4.9 | 9999 | -9999 | 13.8 | 18.3 | 14.6 | 21.1 | 9999 |
| 04.19 | -9999 | 13.2 | 9999 | -9999 | 10.7 | 9.6 | 11.3 | 12.1 | 9999 |
| 04.20 | -9999 | 15.1 | 9999 | -9999 | 18.4 | 12.6 | 19.9 | 24.4 | 9999 |
| 04.21 | -9999 | 10.7 | 9999 | -9999 | 20.3 | 23.3 | 19.3 | 23.2 | 9999 |
| 04.22 | -9999 | 2.6 | 9999 | -9999 | 3.4 | 4.2 | 3.7 | 4.4 | 9999 |
| 04.23 | -9999 | 10.4 | 9999 | -9999 | 22.8 | 22.2 | 21.5 | 24.9 | 9999 |
| 04.24 | -9999 | 19.8 | 9999 | -9999 | 14.4 | 15.0 | 15.7 | 17.8 | 9999 |
| 04.25 | -9999 | 12.2 | 9999 | -9999 | 20.3 | 15.5 | 21.1 | 26.0 | 9999 |
| 04.26 | -9999 | 12.1 | 9999 | -9999 | 24.3 | 25.7 | 22.2 | 25.4 | 9999 |
| 04.27 | -9999 | 20.6 | 9999 | -9999 | 24.0 | 26.3 | 22.8 | 25.5 | 9999 |
| 04.28 | -9999 | 23.9 | 9999 | -9999 | 23.4 | 24.7 | 21.9 | 24.6 | 9999 |
| 04.29 | -9999 | 4.6 | 9999 | -9999 | 21.2 | 22.7 | 22.5 | 25.4 | 9999 |
| 04.30 | -9999 | 10.1 | 9999 | -9999 | 3.4 | 8.2 | 4.4 | 5.2 | 9999 |

表5-4-7 日合計全天日射量 (1992年5月)

Table 5-4-7 Daily total global radiation (May 1992)

9999:未測定・不測定/-9999:欠測

| 年 月日 | 白金 | 美瑛 | 新庄 | 志津 | 長岡 | 奥只見 | 高田 | 笹ヶ峰 | 立山 |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | SHIROGANE | BIEI | SHINJO | SHIZU | NAGAOKA | OKUTADAMI | TAKADA | SASAGAMINE | TATEYAMA |
| | MJ/m ² | MJ/m ² | MJ/m ² | MJ/m ² | MJ/m ² | MJ/m ² | MJ/m ² | MJ/m ² | MJ/m ² |
| 1992 05.01 | -9999 | 15.3 | 9999 | -9999 | 18.9 | 8.6 | 18.6 | 12.2 | 9999 |
| 05.02 | -9999 | 10.8 | 9999 | -9999 | 20.1 | 22.3 | 19.4 | 17.6 | 9999 |
| 05.03 | -9999 | 11.6 | 9999 | -9999 | 13.3 | 15.6 | 19.5 | 22.1 | 9999 |
| 05.04 | -9999 | 14.1 | 9999 | -9999 | 12.0 | 6.0 | 18.8 | 5.8 | 9999 |
| 05.05 | -9999 | 7.3 | 9999 | -9999 | 21.9 | 5.6 | 23.5 | 25.3 | 9999 |
| 05.06 | -9999 | 21.7 | 9999 | -9999 | 23.0 | 25.6 | 23.4 | 25.8 | 9999 |
| 05.07 | -9999 | 18.6 | 9999 | -9999 | 0.0 | 10.7 | 7.9 | 10.1 | 9999 |
| 05.08 | -9999 | 3.7 | 9999 | -9999 | 3.0 | 4.9 | 2.1 | 6.5 | 9999 |
| 05.09 | -9999 | 24.6 | 9999 | -9999 | 4.6 | 11.6 | 5.3 | 9.8 | 9999 |
| 05.10 | -9999 | 28.7 | 9999 | -9999 | 20.3 | 15.3 | 19.2 | 16.8 | 9999 |
| 05.11 | -9999 | 26.1 | 9999 | -9999 | 27.0 | 28.5 | 24.6 | 27.7 | 9999 |
| 05.12 | -9999 | 26.1 | 9999 | -9999 | 24.9 | 26.7 | 22.5 | 24.8 | 9999 |
| 05.13 | -9999 | 24.1 | 9999 | -9999 | 13.8 | 15.9 | 12.3 | 14.9 | 9999 |
| 05.14 | -9999 | 1.8 | 9999 | -9999 | 2.4 | 4.3 | 5.8 | 10.1 | 9999 |
| 05.15 | -9999 | 28.5 | 9999 | -9999 | 18.1 | 24.7 | 19.0 | 22.8 | 9999 |
| 05.16 | -9999 | 28.0 | 9999 | -9999 | 4.5 | 9.1 | 7.6 | 17.4 | 9999 |
| 05.17 | -9999 | 23.6 | 9999 | -9999 | 10.0 | 9.4 | 13.1 | 16.0 | 9999 |
| 05.18 | -9999 | 17.6 | 9999 | -9999 | 6.5 | 4.0 | 5.9 | 4.3 | 9999 |
| 05.19 | -9999 | 9.3 | 9999 | -9999 | 23.8 | 14.0 | 17.1 | 24.6 | 9999 |
| 05.20 | -9999 | 28.2 | 9999 | -9999 | 20.0 | 18.5 | 17.7 | 18.3 | 9999 |
| 05.21 | -9999 | 19.3 | 9999 | -9999 | 23.2 | 26.0 | 22.8 | 25.1 | 9999 |
| 05.22 | -9999 | 11.6 | 9999 | -9999 | 15.6 | 13.3 | 12.7 | 10.1 | 9999 |
| 05.23 | -9999 | 17.7 | 9999 | -9999 | 4.3 | 6.9 | 3.9 | 7.7 | 9999 |
| 05.24 | -9999 | 11.6 | 9999 | -9999 | 4.6 | 6.7 | 6.7 | 14.3 | 9999 |
| 05.25 | -9999 | 10.4 | 9999 | -9999 | 4.1 | 2.7 | 15.0 | 15.0 | 9999 |
| 05.26 | -9999 | 5.3 | 9999 | -9999 | 25.8 | 24.7 | 22.8 | 17.1 | 9999 |
| 05.27 | -9999 | 11.9 | 9999 | -9999 | 20.5 | 11.6 | 15.9 | 14.5 | 9999 |
| 05.28 | -9999 | 27.8 | 9999 | -9999 | 20.1 | 13.1 | 18.1 | 10.3 | 9999 |
| 05.29 | -9999 | 25.6 | 9999 | -9999 | 25.9 | 18.4 | 24.9 | 28.3 | 9999 |
| 05.30 | -9999 | 28.3 | 9999 | -9999 | 9.5 | 7.5 | 9.2 | 4.7 | 9999 |
| 05.31 | -9999 | 30.0 | 9999 | -9999 | 11.3 | 7.3 | 17.3 | 4.3 | 9999 |

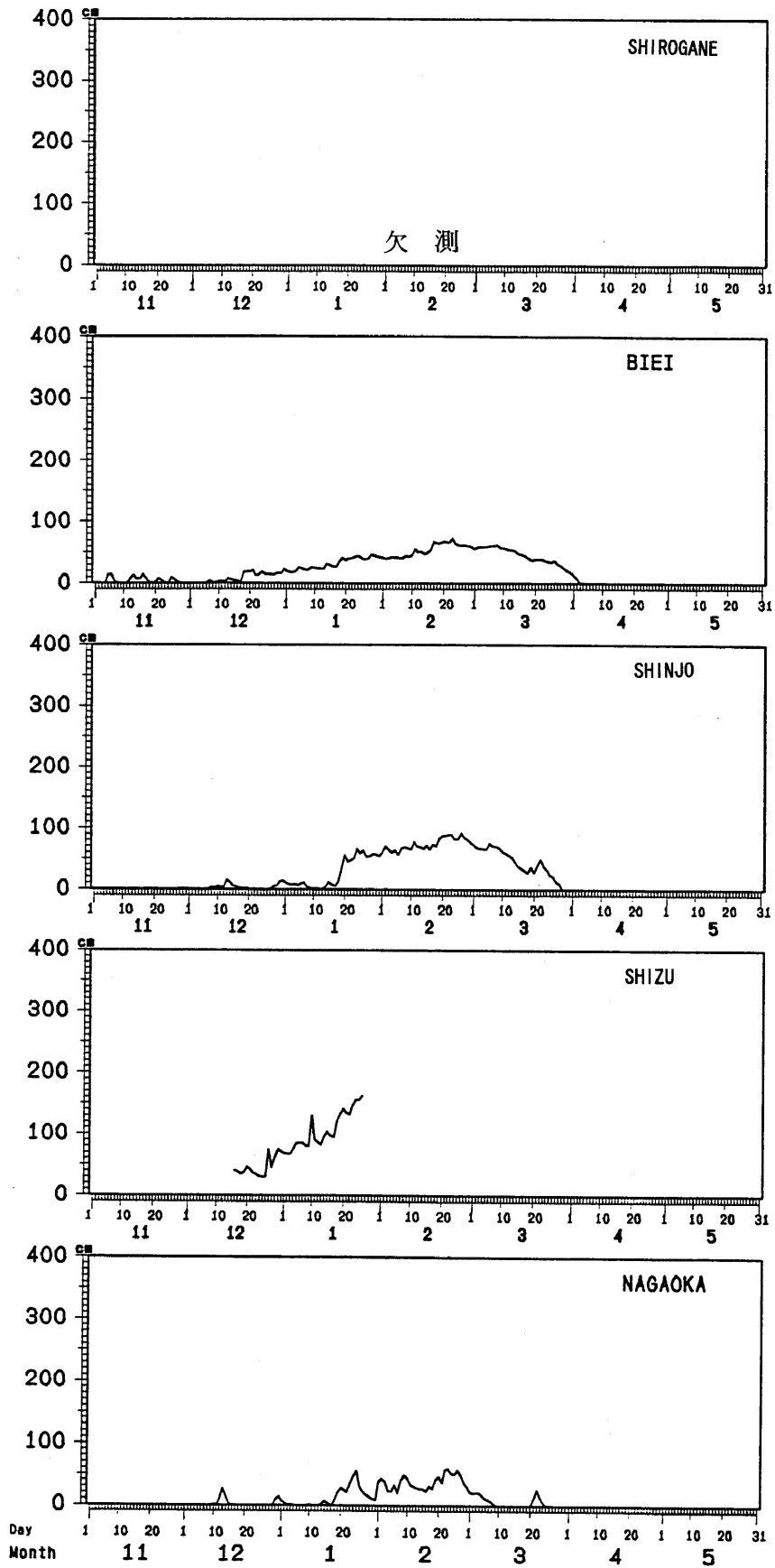


図3a-1 積雪深 (1991年11月-1992年7月)

Fig. 3a-1 Snow depth (November 1991-July 1992)

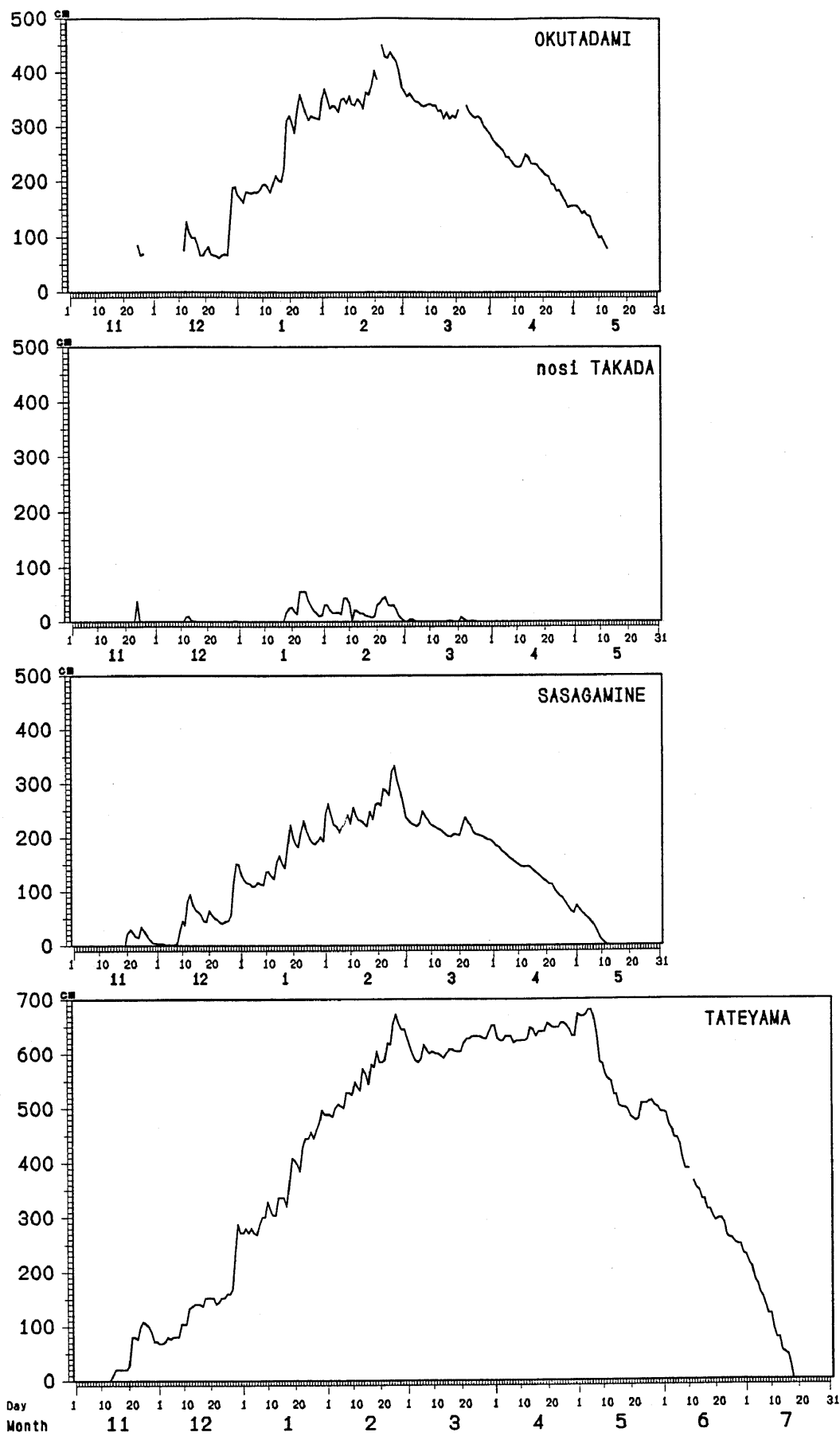


図3a-2 積雪深 (1991年11月-1992年7月)
Fig. 3a-2 Snow depth (November 1991-July 1992)

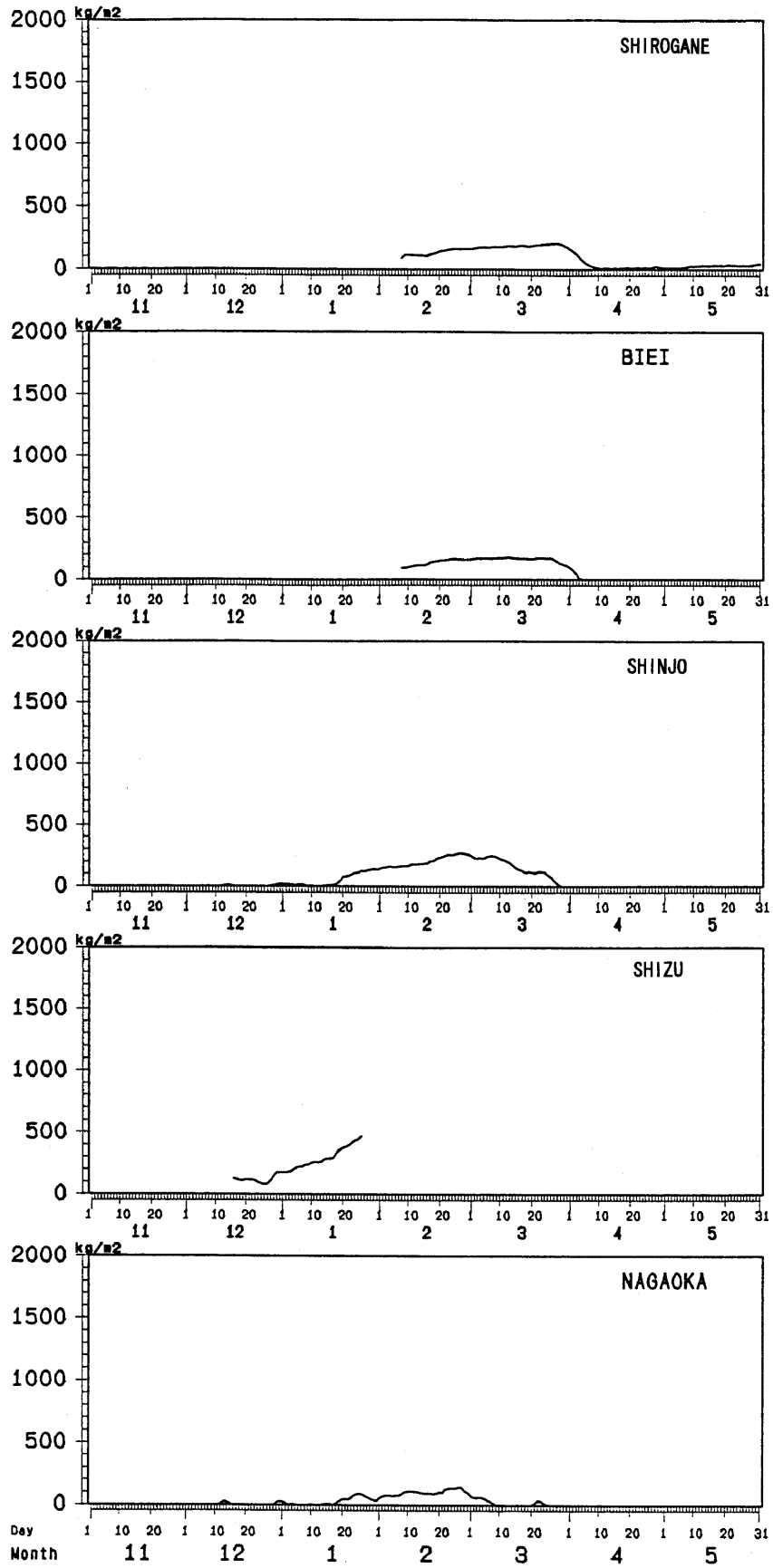


図3b-1 積雪重量 (1991年11月-1992年5月)
Fig. 3b-1 Snow weight (November 1991-May 1992)

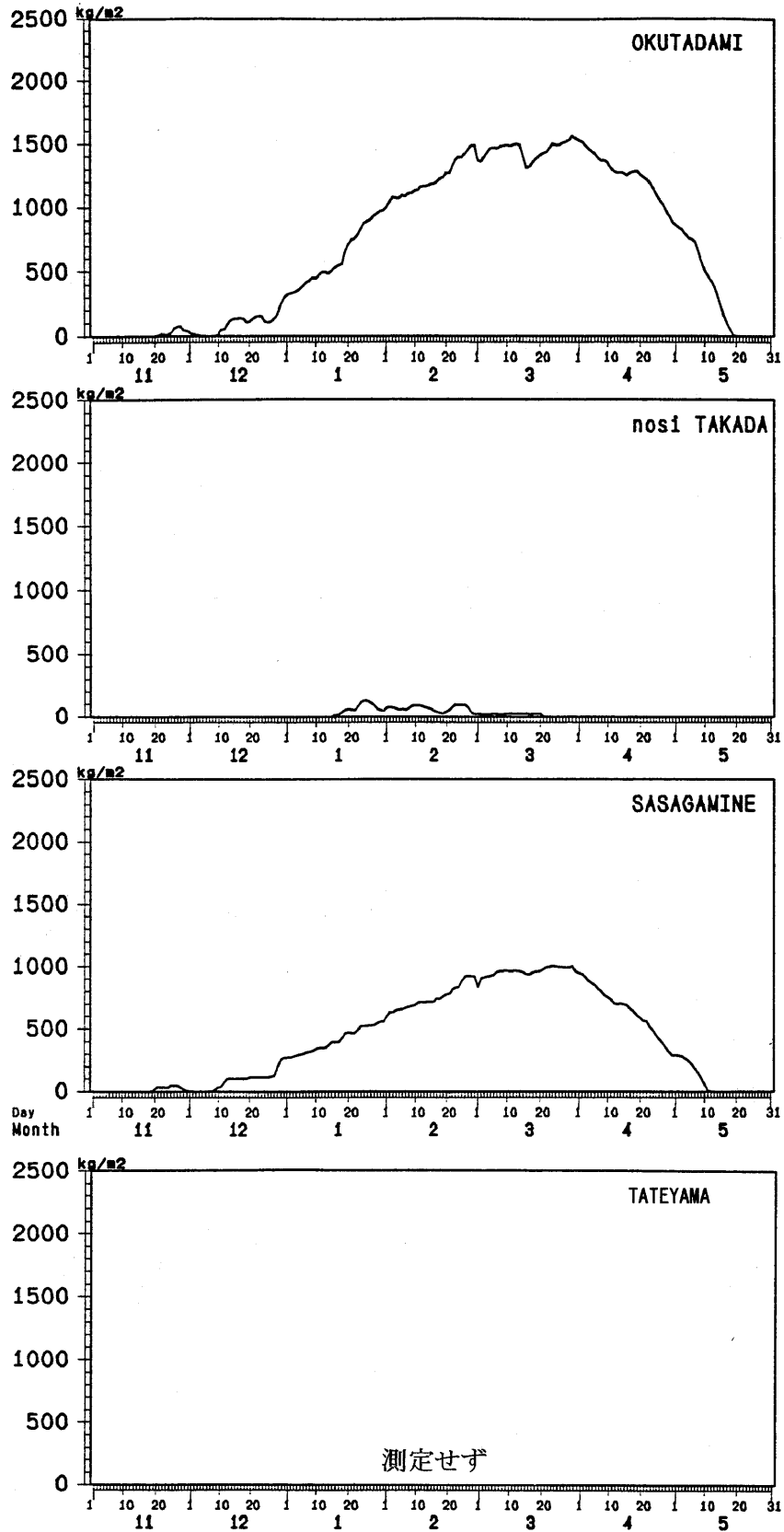


図3b-2 積雪重量 (1991年11月-1992年5月)
Fig. 3b-2 Snow weight (November 1991-May 1992)

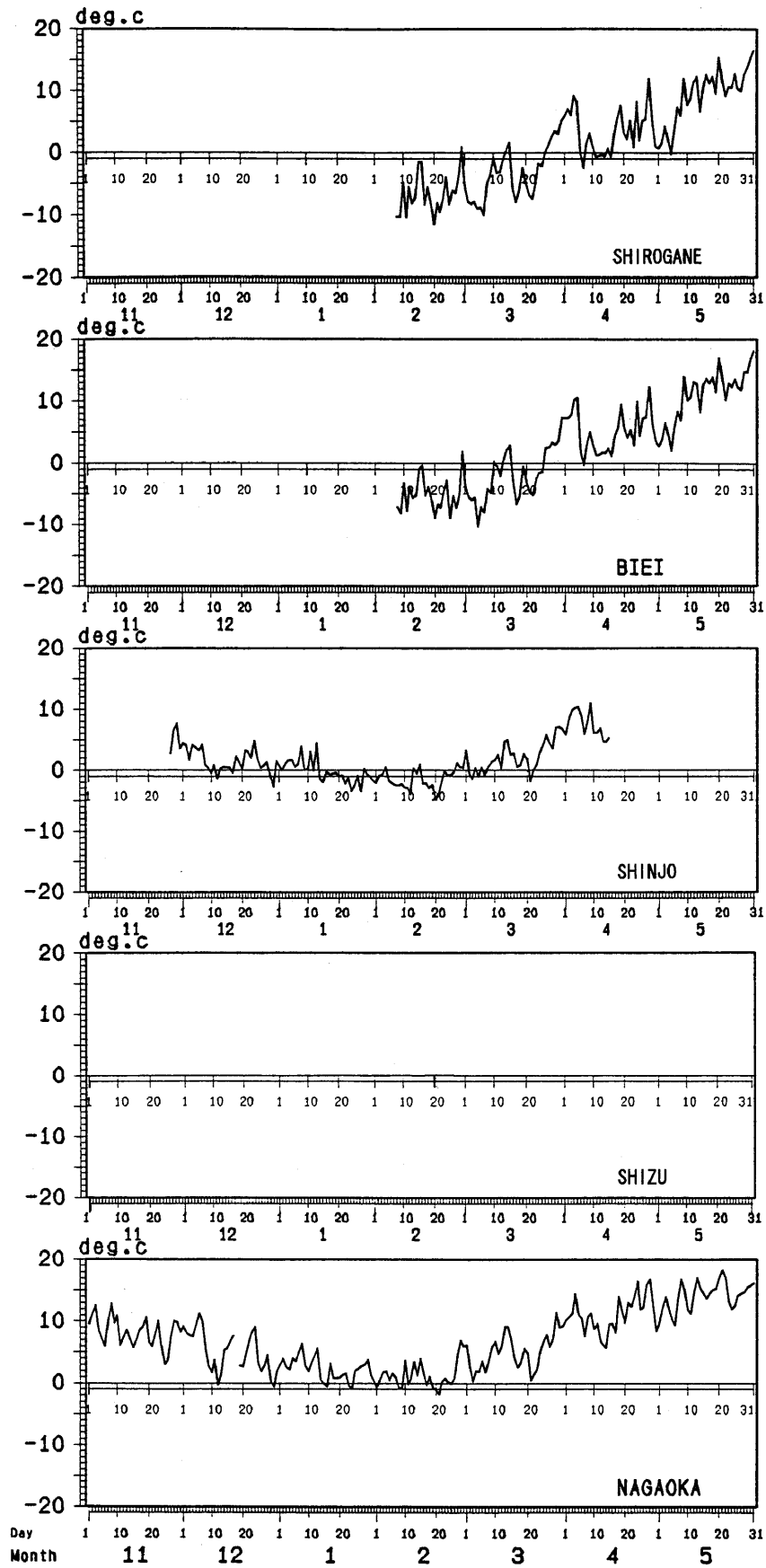


図3c-1 日平均気温 (1991年11月-1992年7月)

Fig. 3c-1 Daily average air temperature (November 1991-July 1992)

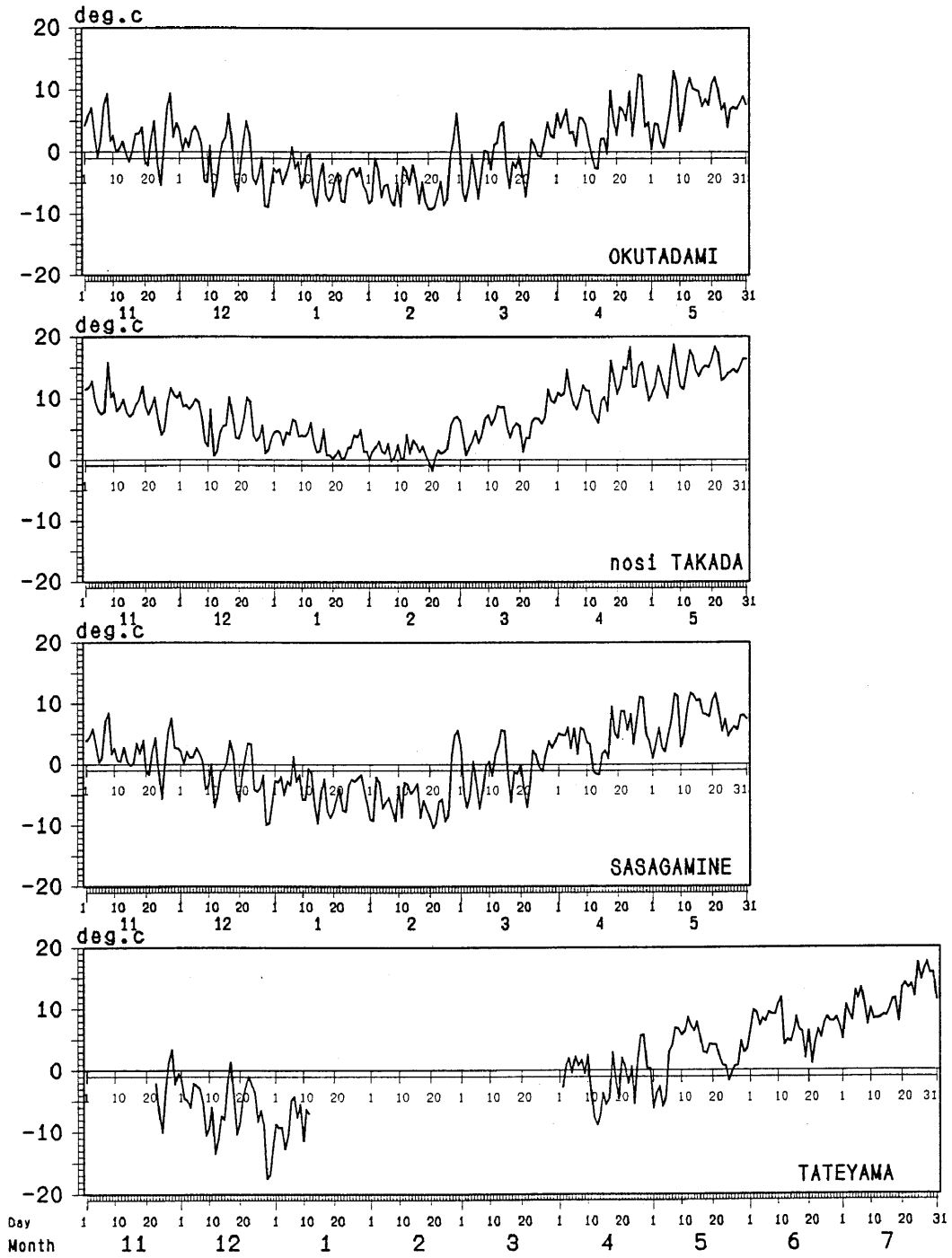


図3c-2 日平均気温 (1991年11月-1992年7月)

Fig. 3c-2 Daily average air temperature (November 1991-July 1992)

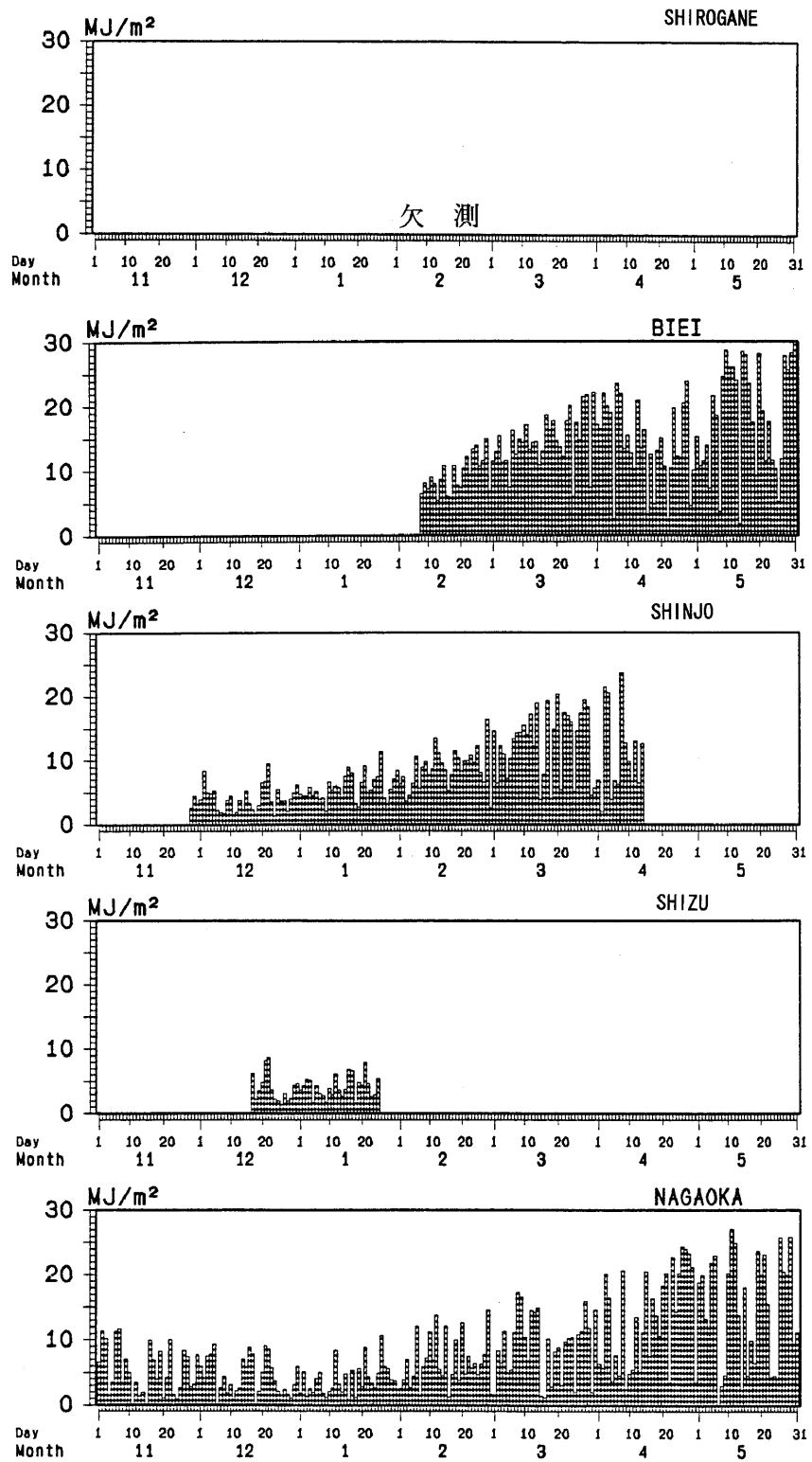


図3d-1 日合計全天日射量 (1991年11月-1992年5月)

Fig. 3d-1 Daily total global radiation (November 1991-May 1992)

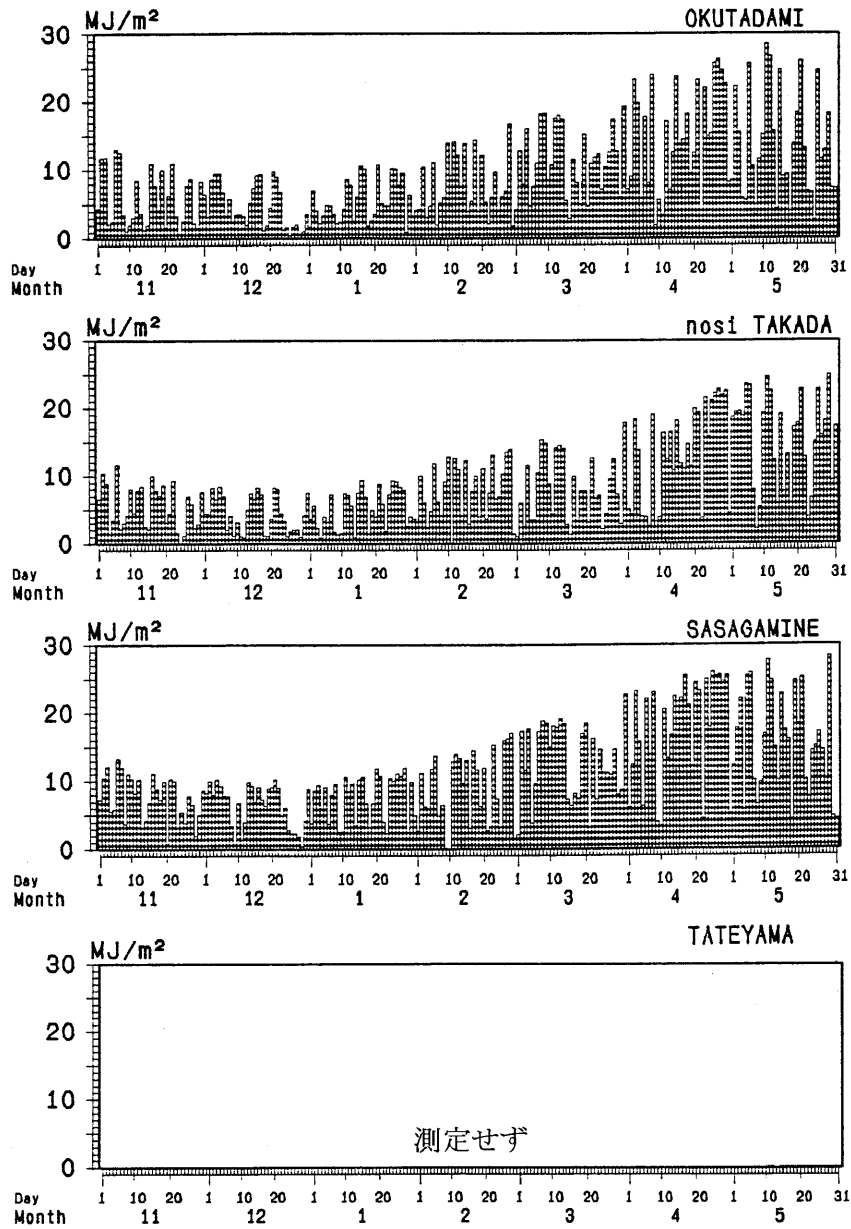


図3d-2 日合計全天日射量 (1991年11月-1992年5月)

Fig. 3d-2 Daily total global radiation (November 1991-May 1992)