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# Study of annual rainfall patterns for North-Western Indian Himalayan region

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**सार** – जलवायु परिवर्तन, यद्यपि अपरिहार्य है, लेकिन इसके लिए, विशेष रूप से कृषि जैसे संवेदनशील क्षेत्रों में प्रभावी अनुकूलन रणनीतियों को सक्षम करने के लिए इसकी परिवर्तनशीलता की स्थानीय समझ आवश्यक है। यह अध्ययन भारत के उत्तर-पश्चिमी हिमालयी (NWH) क्षेत्र पर केंद्रित है, जिसमें जम्मू और कश्मीर, लद्दाख, हिमाचल प्रदेश और उत्तराखंड शामिल हैं–ऐसे क्षेत्र जहाँ पिछले एक सदी में 1.6°C तापमान वृद्धि और अत्यधिक वर्षा की घटनाओं की आवृत्ति में वृद्धि सहित, बड़े पैमाने पर जलवायु परिवर्तन हुए हैं। GPCC और वर्षा सांद्रता सूचकांक (PCI) के वैश्विक डेटासेट को एक प्रमुख विश्लेषणात्मक उपकरण के रूप में उपयोग करते हुए, यह शोध 1971 से 2020 तक उत्तर-पश्चिमी क्षेत्र के विभिन्न ऊँचाईयों और जलवायु क्षेत्रों में स्थानिक-कालिक वर्षा परिवर्तनशीलता की जाँच करता है। निष्कर्ष वर्षा वितरण में, विशेष रूप से जम्मू-कश्मीर और लद्दाख में, एक गंभीर अनियमितता दर्शाते हैं, जो 1998 में जम्मू-कश्मीर में बादल फटने और 2013 में केदारनाथ बाढ़ जैसी दर्ज की गई अत्यधिक वर्षा की घटनाओं (EREs) के अनुरूप है। इन घटनाओं के लिए गणना किए गए PCI मान (उदाहरण के लिए केदारनाथ के लिए 19.10) आपदाओं की घटना में वर्षा की अनियमितता की भूमिका को रेखांकित करते हैं। देखी प्रवृति के बावजूद, ज़मीनी आंकड़ों में अंतराल और सीमित बुनियादी ढाँचा, विशेष रूप से दूरस्थ या भू-राजनीतिक रूप से संवेदनशील क्षेत्रों में सटीक निगरानी और आपदा तैयारियों में बाधा डालते हैं। यह अध्ययन उत्तर-पश्चिमी हिमालयी क्षेत्र में प्रभावी जलवायु लचीलेपन के लिए उन्नत जलवायु डेटा संग्रह, EREs के बेहतर दस्तावेज़ीकरण और सूक्ष्म जलवायु-विशिष्ट अनुकूलन रणनीतियों के विकास की तत्काल आवश्यकता पर बल देता है।

**ABSTRACT.** Climate change, though inevitable, requires localized understanding of its variability to enable effective adaptation strategies, particularly in vulnerable sectors such as agriculture. This study focuses on the North Western Himalayan (NWH) region of India, encompassing Jammu & Kashmir, Ladakh, Himachal Pradesh, and Uttarakhand-areas that have witnessed substantial climatic shifts, including a 1.6 °C temperature rise over the last century and increased frequency of extreme rainfall events. Using global datasets from the GPCC and the Precipitation Concentration Index (PCI) as a key analytical tool, this research investigates spatio-temporal rainfall variability from 1971 to 2020 across varying altitudes and climate zones of the NWH region. Findings indicate a strong irregularity in precipitation distribution, particularly in J&K and Ladakh, aligning with recorded extreme rainfall events (EREs) such as 1998 J&K cloudbursts and the 2013 Kedarnath floods. The PCI values calculated for these events (*e.g.,* 19.10 for Kedarnath) underscore the role of rainfall irregularity in disaster occurrence. Despite the observed trends, ground-based data gaps and limited infrastructure, particularly in remote or geopolitically sensitive areas, hamper precise monitoring and disaster preparedness. This study emphasizes the urgent need for enhanced climate data collection, improved documentation of EREs, and the development of microclimate-specific adaptation strategies for effective climate resilience in the North Western Himalayan region.

**Key words** – Uttarakhand, Jammu & Kashmir, Ladakh, Himachal Pradesh, Precipitation Concentration Index, EREs

## 1. Introduction

Climate change is an inescapable reality; however, understanding its variability is essential to developing effective adaptation strategies at the local scale. As the Indian economy is predominantly agrarian, any fluctuations in climate have critical implications for agricultural productivity. Agriculture, being highly

climate-sensitive, is directly and indirectly affected by shifts in temperature and precipitation patterns, influencing crop yields, water availability, drought incidence, pest & disease dynamics, & ultimately, national economic stability (Kotera *et al.,* 2014). Notably, extreme temperatures and erratic rainfall patterns have been shown to negatively impact crop production, with temperature fluctuations exerting a more pronounced influence than rainfall variations (Lobell *et al.,* 2011). Additional consequences of climate change include enhanced surface runoff and increased soil erosion, largely attributed to the rising frequency of intense rainfall events.

Piao *et al.* (2010) emphasized that climate change plays a pivotal role in shaping future agricultural planning and food security globally, including in India. The North Western (NW) Himalayan region-comprising the states of Jammu and Kashmir, Himachal Pradesh, and Uttarakhand has shown clear signs of climatic alteration. Bhutiyani *et al.* (2007) reported an approximate rise of 1.6 °C in mean temperature across this region during the period 1901–2002. Ahuja *et al*. (2023) reported clear signals of climate change in Himachal Pradesh, with rising winter temperatures and declining precipitation during monsoon and winter seasons. High-elevation districts such as Lahaul–Spiti, Kinnaur, and Kullu were found to be more vulnerable to extreme climatic events. Similarly, Goswami *et al.* (2006) identified an increasing frequency of heavy rainfall events (>100 mm) and a simultaneous decline in moderate rainfall events over Central India between 1950 and 2000. Dourte *et al.* (2012) further corroborated the trend of fewer but more intense rainfall events.

In the context of mountainous ecosystems, such extreme climatic occurrences have led to a series of ecological and socio-economic consequences, including altitudinal migration of species, depletion of traditional water sources, shifts in crop planting schedules, reduced agricultural outputs, and increased vulnerability among farming communities (Ahuja *et al.,* 2024). Consequently, analyzing spatio-temporal trends in temperature and precipitation at finer spatial scales becomes imperative for designing region-specific adaptation measures. In this regard, Panwar *et al.* (2019) conducted a localized analysis of temperature and rainfall patterns in Shimla and Dharamshala.

Similarly, Pandey *et al.* (2023) provided statistical information on the behavior of extreme temperature and precipitation for Uttarakhand region.

The increasing frequency of extreme precipitation events across the NW Himalayan states underscores the urgency of such investigations.

The Precipitation Concentration Index (PCI) is a widely recognized metric used to quantify the temporal distribution of precipitation within a specific region. It provides insights into the degree of seasonality and concentration of rainfall over the course of a year. The PCI is derived from monthly precipitation data and is calculated as the ratio of the sum of squared monthly precipitation values to the square of the total annual precipitation.

This index is particularly valuable in hydrological and climatological studies for assessing the implications of precipitation variability, especially under changing climatic conditions. Given its capacity to represent the distributional characteristics of precipitation on monthly, seasonal, and annual timescales, it serves as an effective tool for evaluating regional susceptibility to hydrometeorological extremes such as droughts and floods, and supports the development of adaptive water resource management strategies, including infrastructure planning for reservoirs and irrigation systems.

The present study aims to analyze spatio-temporal climate parameter across varying altitudes in Himachal Pradesh, Jammu & Kashmir, Ladakh and Uttarakhand to inform climate-resilient planning in these vulnerable regions.

### 1.1. *Physiographic and climatologic description of the Region*

The study mainly focuses on North Western Indian Himalayan region particularly Jammu & Kashmir, Ladakh, Himachal Pradesh and Uttarakhand as shown in Fig. 1.

#### 1.1.1. *Uttarakhand*

Uttarakhand is located between latitudes 28°43′ N and 31°27′ N and longitudes 77°34′ E and 81°02′ E, encompassing a total area of 53,483 km². Approximately 86% of the state's terrain is mountainous, and around 65% is forested. Nanda Devi, rising to 7,816 meters above sea level, is the highest peak in the state and the second-highest in India. The region experiences a harsh climate, particularly in winter, when temperatures frequently drop below freezing across many areas. Geologically, Uttarakhand is stratified into four major physiographic zones: the Terai and Bhabar plains (175-600 m), the Shivalik hills (600-1200 m), the Lesser Himalaya (1200-3000 m), and the Greater Himalaya (3000-7000 m).

This pronounced topographic diversity results in a wide range of climatic conditions, from subtropical to sub-tundra environments.

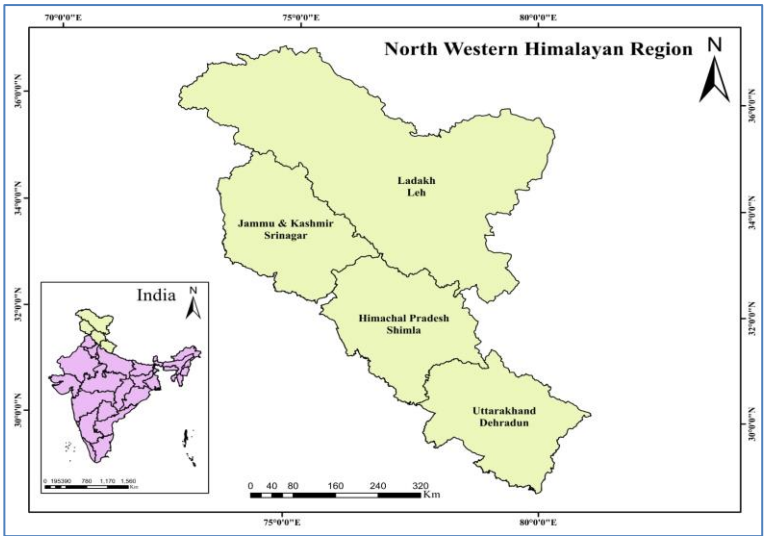



**Fig. 1**. Map of Study Area

1.1.2. *Himachal Pradesh*

Situated between latitudes 30°21′ N and 33°13′ N and longitudes 75°31′ E and 79°04′ E, Himachal Pradesh spans an area of 55,673 km². The state's elevation varies significantly, from 250 meters to over 6,600 meters above mean sea level. Geologically, Himachal Pradesh is categorized into three distinct zones: the Shivalik or outer Himalaya (up to 1,500 m), the mid-altitude inner Himalaya (up to 4,500 m), and the high-altitude Zanskar range (above 4,500 m), which includes some of the tallest Himalayan peaks.

1.1.3. *Jammu & Kashmir and Ladakh*

Located at the northernmost extent of India, the erstwhile state of Jammu & Kashmir (now reorganized into the Union Territories of Jammu & Kashmir and Ladakh) lies between latitudes 32°17′ N and 36°58′ N and longitudes 73°26′ E and 80°30′ E, covering a geographical area of 222,236 km². The region exhibits pronounced climatic variability due to its complex topography, with elevations ranging from 290 meters to over 7,000 meters. Climatic conditions range from tropical in the plains of Jammu, to temperate in the mountainous regions of Kashmir and Jammu, and to semi-arid and cold desert conditions in Ladakh. Among the major regions, Jammu experiences the highest temperatures, whereas Leh in Ladakh records the lowest.

## 2. Data source and methodology

*Data Source:* The primary dataset used in this study is the Global Precipitation Climatology Centre (GPCC) gridded precipitation dataset, which provides high-quality, long-term precipitation records for climate research and applications. The GPCC is operated by the Deutscher Wetter Dienst (DWD), Germany's national meteorological service, in collaboration with the World Meteorological Organization (WMO). It compiles, quality-controls, and archives global precipitation data collected from more than 70,000 meteorological stations worldwide.

For the present study, the GPCC gridded monthly precipitation dataset (0.25° × 0.25° resolution) was obtained through the NOAA Physical Sciences Laboratory (PSL) data portal (https://psl.noaa.gov/data/gridded/data.gpcc.html). Thus, while GPCC is the original dataset provider, NOAA PSL served as the access platform.

The Central Water Commission, in collaboration with the Indian Space Research Organization (ISRO), has also developed the Water Resources Information System (WRIS) as a comprehensive platform for hydrological and water-related information across India. However, this database was not directly used in the current study; it is mentioned here only as an additional reference for national-level water data resources.

*Methodology***:** The PCI which was proposed by (Oliver, 1980) and developed by **(**De Luis *et al.*,2000) is used for the calculation of annual PCI by using following equation-

$$PCI_{annual} = \frac{\sum_{i=1}^{12} p_i^2}{\left(\sum_{i=1}^{12} P_i\right)^2} \times 100 \quad (1)$$

$$PCI_{winter} = \frac{\sum_{i=1}^{12} p_i^2}{\left(\sum_{i=1}^{12} P_i\right)^2} \times 25 \quad (2)$$

**TABLE 1**

**Classification of PCI Values (Source: Oliver 1980)**

| PCI | Description |
|---|---|
| <10 | Uniform precipitation distribution (that is, low precipitation concentration) |
| 11 to 15 | Moderate precipitation distribution |
| 16 to 20 | Irregular distribution |
| >20 | Strong irregularity of precipitation distribution (that is, high precipitation concentration) |

$$PCI_{summer} = \frac{\sum_{i=1}^{12} p_i^2}{\left(\sum_{i=1}^{12} P_i\right)^2} \times 25 \quad (3)$$

$$PCI_{monsoon} = \frac{\sum_{i=1}^{12} p_i^2}{\left(\sum_{i=1}^{12} P_i\right)^2} \times 33.33 \quad (4)$$

$$PCI_{post\ monsoon} = \frac{\sum_{i=1}^{12} p_i^2}{\left(\sum_{i=1}^{12} P_i\right)^2} \times 16.33 \quad (5)$$

where, $p_i$ = mean monthly rainfall

It is important to note that although formulas for seasonal PCI (*e.g.*, winter, summer, monsoon and post monsoon) are presented to indicate methodological availability, the present study focused exclusively on the calculation and analysis of annual PCI. This choice was made to capture long-term spatio-temporal irregularities across the North-Western Himalayan region and to link them with extreme rainfall events. Seasonal or month-wise PCI composites were not computed in this study but represent a worthwhile direction for future investigations to better understand intra-annual precipitation variability.

## 3. Results and analysis

The range of PCI with the description in view of precipitation distribution is listed in Table 1.

The spatial distribution of the Precipitation Concentration Index (PCI) for the districts of Himachal Pradesh, Jammu & Kashmir, Ladakh, and Uttarakhand during the period 1971 to 2020 is presented through a series of maps in Figs. 2 to 7. These figures correspond to the time intervals: 1971-1978 (Fig. 2), 1979-1986 (Fig. 3), 1987-1994 (Fig. 4), 1995-2002 (Fig. 5), 2003-2010 (Fig. 6), and 2011-2020 (Fig. 7). The color scale on the right side of each figure indicates the variation in PCI across the regions.

The figures illustrate the rainfall distribution across the specified years, with the corresponding calculated values provided in Appendix Table A1.

**TABLE 2**

**Climate zones based on altitudes (source: Das 2013)**

| Serial No. | Climate Zones | Altitude(meters) |
|---|---|---|
| 1. | Tropical Zone | 300-900 |
| 2. | Warm temperate Zone | 900-1800 |
| 3. | Cool temperate Zone | 1801-2400 |
| 4. | Cold Zone | 2401-3000 |
| 5. | Alpine Zone | 3001-4000 |
| 6. | Glacial Zone | 4001-4800 |
| 7. | Perpetually frozen Zone | >4800 |

According to the altitude, the NWH can be divided into seven micro climatic zones based on the altitude as described in Table 2.

Some of the extreme precipitation based events occurred during the year 1971 to 2020 obtained from various references used in this study are listed below:

(*i*) Floods - June 2013 - Uttarakhand - Latitude: 30.7286° N, Longitude: 78.4418° E

(*ii*) Landslide - August 2010 - Jammu and Kashmir - Latitude: 34.2992° N, Longitude: 74.4667° E

(*iii*) Cloudburst - August 1998 - Jammu and Kashmir - Latitude: 32.7266° N, Longitude: 74.8570° E

(*iv*) Flash Floods - August 1997 - Himachal Pradesh - Latitude: 32.2998° N, Longitude: 76.5712° E

(*v*) Heavy Rainfall - July 1994 - Uttarakhand - Latitude: 30.2917° N, Longitude: 78.0526° E

(*vi*) Landslide - August 1993 - Himachal Pradesh - Latitude: 31.1048° N, Longitude: 77.1734° E

(*vii*) Cloudburst - August 1992 - Uttarakhand - Latitude: 30.8025° N, Longitude: 79.4681° E

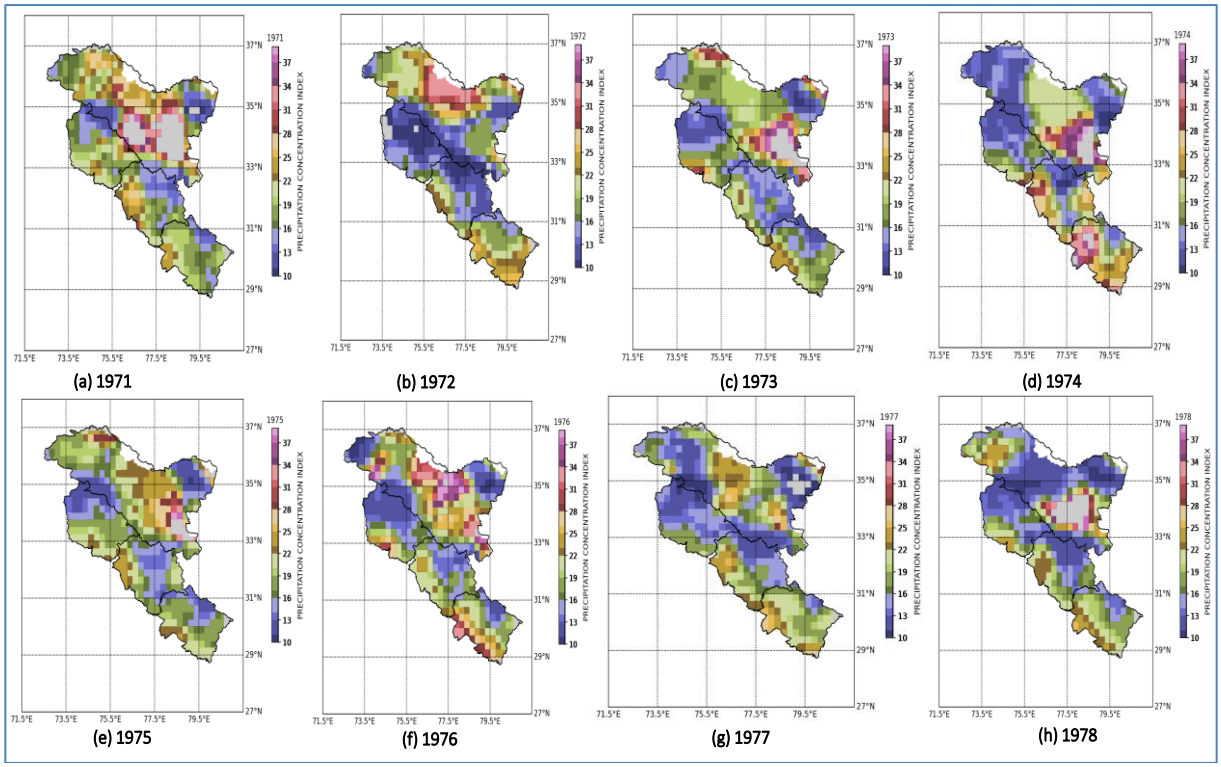
(*viii*) Flash Floods - July 1980 - Himachal Pradesh - Latitude: 32.2998° N, Longitude: 76.5712° E

(*ix*) Heavy Rainfall - August 1979 - Uttarakhand - Latitude: 30.2917° N, Longitude: 78.0526° E

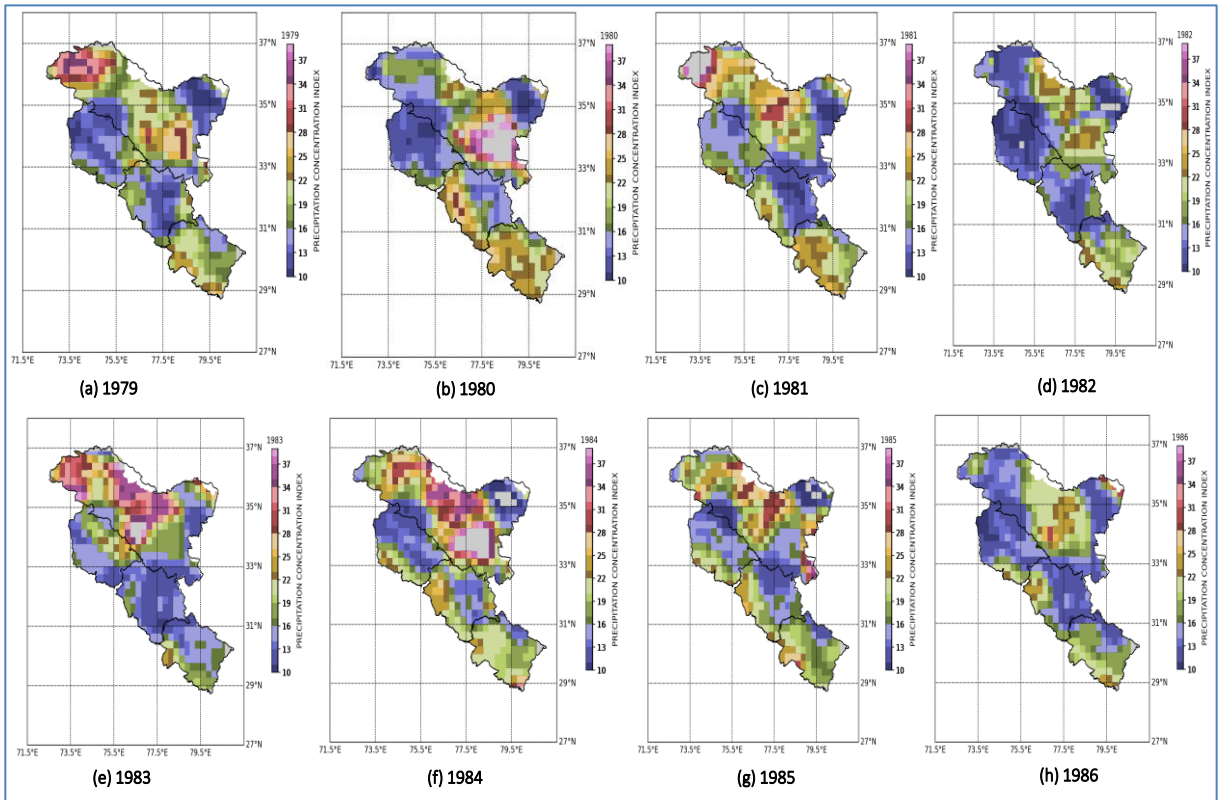
(*x*) Landslide - July 1974 - Jammu and Kashmir - Latitude: 34.0837° N, Longitude: 74.7973° E

(*xi*) Heavy Snowfall - January 1972 - Ladakh - Latitude: 34.1526° N, Longitude: 77.5771° E

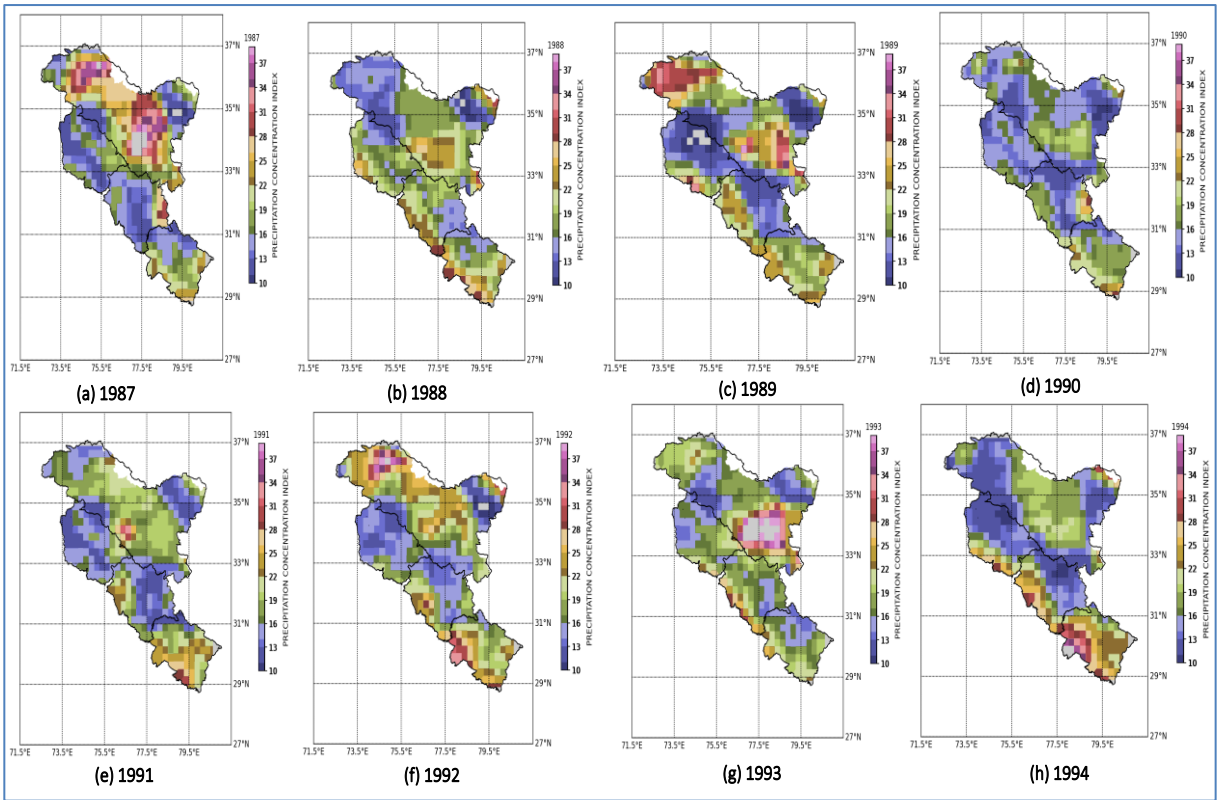
The above list provides some of the extreme precipitation-based events that have occurred in the Northwestern Indian Himalayan states. The aforementioned list comprises only those events that were officially documented and resulted in human casualties or



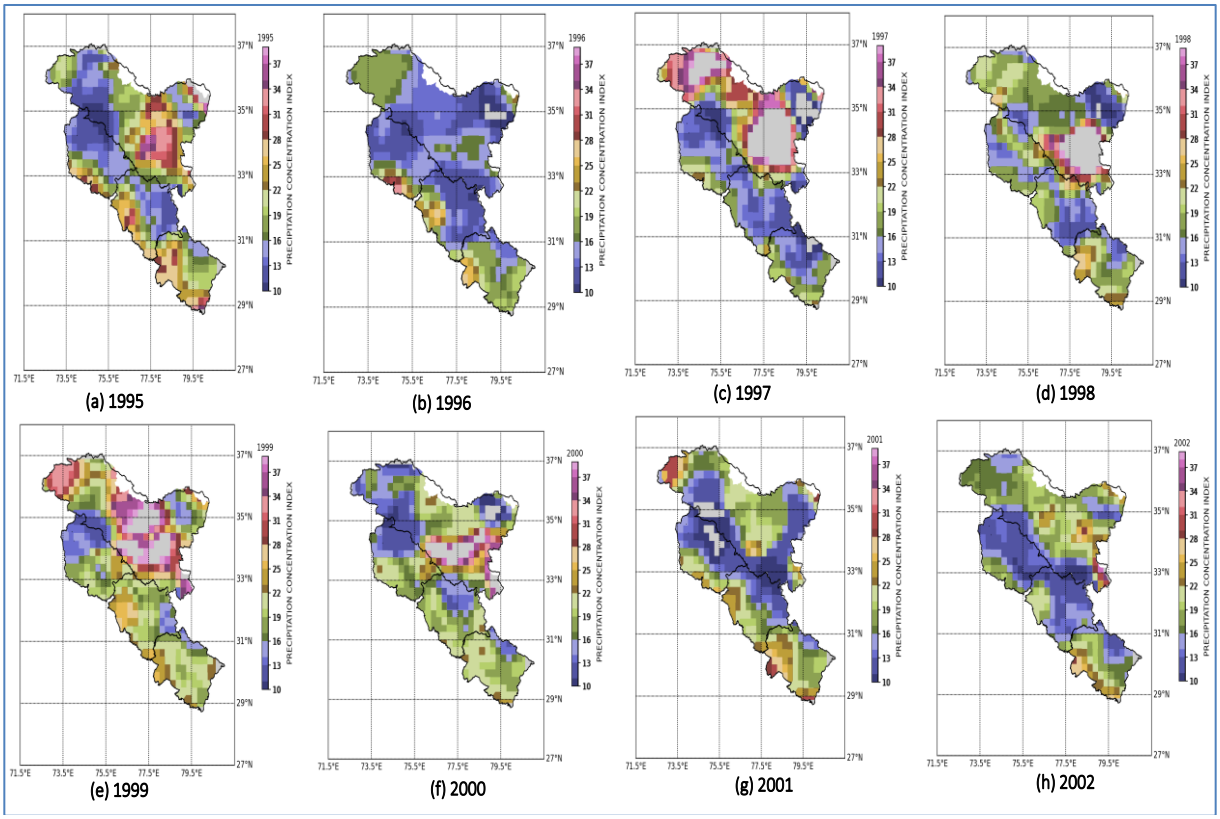

**Figs. 2(a-h).** PCI spatial distribution maps for the years 1971–1978



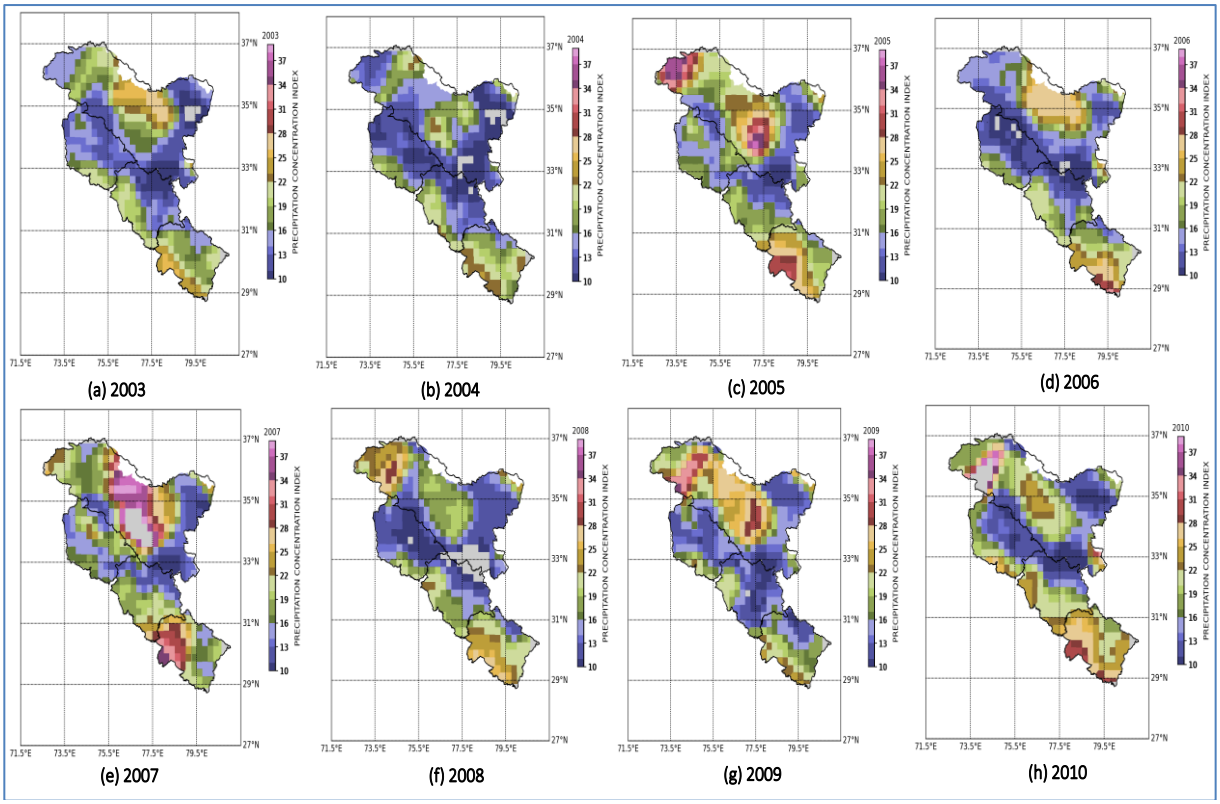

**Figs. 3(a-h).** PCI spatial distribution maps for the years 1979–1986



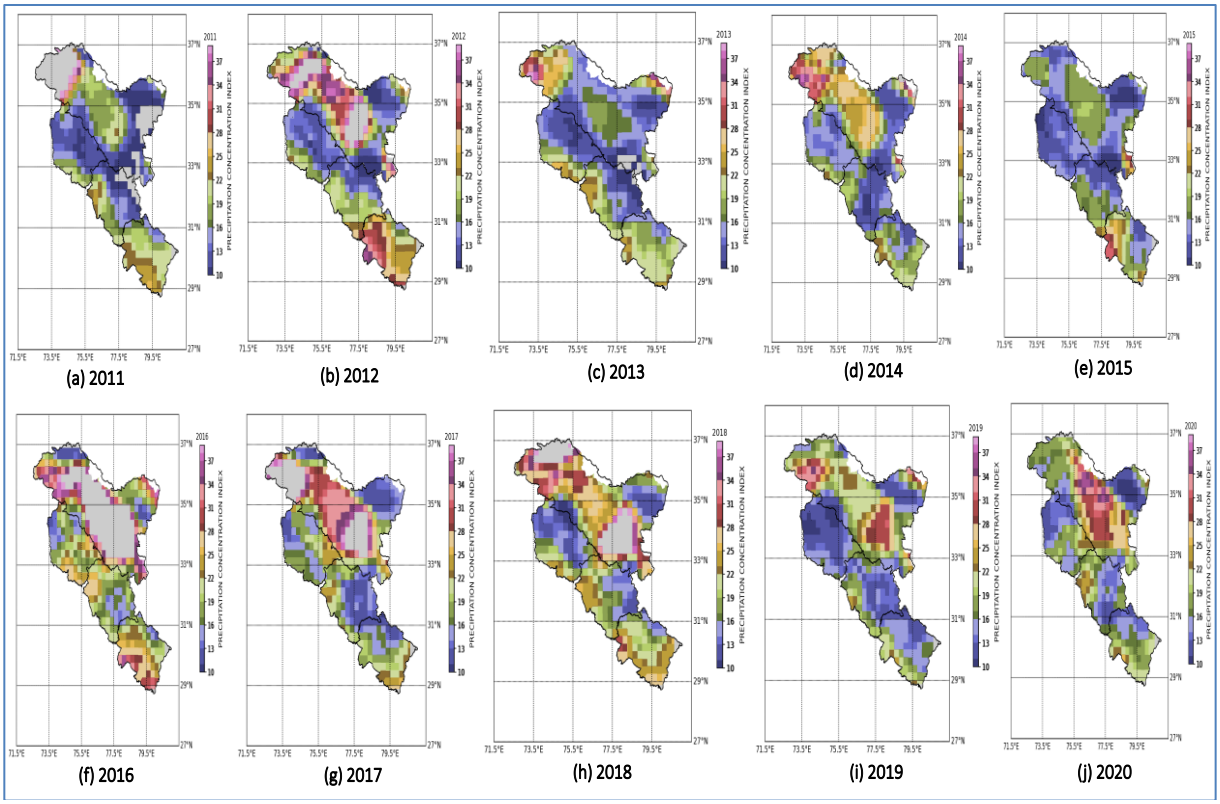

**Figs. 4(a-h)**. PCI spatial distribution maps for the years 1987–1994




**Figs. 5(a-h)**. PCI spatial distribution maps for the years 1995–2002




**Figs. 6(a-h)**. PCI spatial distribution maps for the years 2003–2010




**Figs. 7(a-j).** PCI spatial distribution maps for the years 2011–2020

economic losses. However, numerous incidents remain undocumented or are preserved solely as anecdotal accounts in local histories, largely due to the absence of systematic monitoring at the time of their occurrence.

The relationship between extreme precipitation events and PCI values needs careful interpretation. A high PCI does not always correspond to a greater total annual rainfall, but rather to how unevenly rainfall is distributed within a year. For example, in 2012, precipitation was dominated by a few intense rainfall episodes, which led to strong temporal concentration & consequently a higher PCI value. In contrast, during 2013, although the region experienced catastrophic events such as the Kedarnath floods, rainfall was spread over several months in addition to the extreme event, resulting in a lower PCI compared to 2012. This highlights that PCI is particularly sensitive to the concentration of rainfall in limited periods rather than the absolute rainfall magnitude. Therefore, extreme precipitation events that occur in isolation or within a short time window significantly elevate PCI values, while years with more evenly distributed rainfall, even if including high-impact events, may exhibit relatively lower PCI.

## 4. Conclusions

Our investigation indicates that the districts of Jammu & Kashmir (J&K) and Ladakh are frequently affected by extreme weather events (EWEs). However, the region's inaccessibility, remoteness, and its geopolitical sensitivity due to international border issues present significant challenges for the installation of meteorological instruments such as rain gauges and weather radars, particularly in Jammu & Kashmir. Analysis of precipitation data further reveals pronounced temporal irregularities in rainfall distribution across these regions, as evidenced by consistently high Precipitation Concentration Index (PCI) values during most of the study years. Moreover, the absence of precise temporal and spatial documentation for many EWEs highlights a critical gap in systematic data collection and reporting across the North Western Himalayan (NWH) region.

Notably, all identified EWEs occurred during the monsoon season, underscoring the presence of specific high-risk zones within the NWH states that require focused attention for accurate data acquisition and monitoring. For instance,

*Case Study 1*: The catastrophic flood in June 2013 in Uttarakhand (Latitude: 30.7286° N, Longitude: 78.4418° E) aligns with our calculated PCI value of 19.10, suggesting highly uneven rainfall distribution during that period, proving how a few days of abnormal weather can lead to large-scale disaster in fragile mountain ecosystems. The 2013 Kedarnath disaster was caused by a complex chain of events such as intense cloudburst-induced rainfall, glacial lake or snowmelt burst, steep terrain and flash floods and unplanned human development.

*Case Study 2*: The August 1998 cloudburst event in Jammu & Kashmir (Latitude: 32.7266° N, Longitude: 74.8570° E) corresponds with a PCI value of 17.85 in the surrounding area, further supporting the irregularity of precipitation in the region. The 1998 J&K cloudburst was a result of intense local convection, combined with the region's complex mountain geography and weak synoptic-scale circulation, which concentrated rainfall in a limited area. The absence of adequate weather-monitoring and early-warning infrastructure at the time further worsened the impacts of this event. This is strongly supported by the PCI value of 17.85, which reflects the rainfall's extreme temporal concentration, leading to disastrous impacts.

In this context, the extreme precipitation-based events listed from 1971 to 2020 are not only documented for reference but also directly linked with the PCI results. Their inclusion helps validate the observed precipitation irregularities, demonstrate the relationship between high PCI values and extreme hydrometeorological disasters, and identify vulnerable high-risk zones across the NWH states. This connection highlights the practical implications of PCI in understanding, monitoring, and planning for disaster preparedness and resilience in the Himalayan region.

Although numerous other disaster events have been reported, the lack of ground-based observational data limits comprehensive analysis. Nevertheless, our spatial assessment across varying latitudes and longitudes from 1971 to 2020 indicates specific districts within the NWH states that have been most affected by EWEs. Recent high-impact events, such as those in Leh (Ladakh) and Kedarnath (Uttarakhand), which caused widespread destruction, have not only drawn scientific interest but also reignited critical discourse on the inadequate state of disaster preparedness and management at both regional and national levels in India.

*Data Availability Statement*

The dataset is publicly accessible via the GPCC website as well as other recognized data portals. For the present study, the publicly available gridded precipitation dataset was obtained from the NOAA Physical Sciences Laboratory (https://psl.noaa.gov/data/gridded/data.gpcc.html).

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The publicly available gridded precipitation dataset was obtained from the NOAA Physical Sciences Laboratory (https://psl.noaa.gov/data/gridded/data.gpcc.html).

*Authors' contributions*

Vineet Ahuja: Conceptualization, Data curation, Formal Analysis, Visualization, original draft.
Chhavi P. Pandey: Data Curation, Methodology, Supervision, Visualization, review & editing.
Hemwati Nandan: Conceptualization, Formal Analysis, Supervision, Validation, review & editing.

*Disclaimer:* The contents and views expressed in this study are the views of the authors and do not necessarily reflect the views of the organizations they belong to.

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*Appendix*

**TABLE A1**

**Table date from the year 1971 to 1987**

| Lattitude | Longitude | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 36.88 | 73.88 | 15.18 | 17.19 | 17.69 | 11.43 | 16.15 | 14.02 | 13.6 | 13.98 | 28.6 | 13.48 | 33.51 | 11.87 | 22.58 | 16.52 | 13.89 | 14.14 | 12.88 |
| 36.88 | 74.38 | 21.92 | 19.84 | 27.69 | 13.24 | 21 | 21.01 | 16.21 | 14.25 | 22.12 | 14.42 | 17.01 | 12.31 | 15.32 | 21.9 | 15.67 | 12.48 | 16.01 |
| 36.88 | 74.63 | 22.69 | 20.82 | 29.68 | 13.75 | 23.51 | 22.56 | 17.27 | 14.16 | 21.14 | 14.64 | 15.59 | 12.47 | 14.29 | 22.26 | 15.55 | 12.48 | 15.96 |
| 36.88 | 74.88 | 21.54 | 20.97 | 30.1 | 13.86 | 24.36 | 23.16 | 17.39 | 14.12 | 20.62 | 14.67 | 14.81 | 12.57 | 13.47 | 21.42 | 15.42 | 12.52 | 15.29 |
| 36.88 | 75.13 | 18.88 | 19.94 | 28.92 | 13.38 | 22.53 | 22.93 | 16.05 | 14.02 | 20.32 | 14.54 | 13.98 | 12.62 | 12.42 | 20.2 | 15.39 | 12.52 | 14.58 |
| 36.88 | 75.38 | 16.54 | 18.73 | 27.13 | 12.93 | 20.81 | 22.8 | 14.81 | 13.92 | 20.26 | 14.32 | 13.21 | 12.65 | 11.57 | 18.59 | 15.54 | 12.52 | 14.04 |
| 36.63 | 73.13 | 15.97 | 14.76 | 13.87 | 13.03 | 18.23 | 10.36 | 15.21 | 14.73 | 32.73 | 13.21 | 50.96 | 14.67 | 25.44 | 15.56 | 15.02 | 15.7 | 11.94 |
| 36.63 | 73.38 | 16.84 | 16.13 | 14.66 | 13.15 | 18.65 | 10.8 | 15.74 | 14.65 | 33.77 | 15.07 | 64.22 | 12.85 | 29.3 | 17.59 | 19.23 | 18.05 | 12.82 |
| 36.63 | 73.63 | 16.84 | 17.4 | 15.07 | 12.71 | 18.5 | 11.57 | 15.77 | 14.96 | 34.23 | 17.15 | 61.71 | 10.09 | 31.47 | 18.81 | 20.09 | 18.42 | 14.3 |
| 36.63 | 73.88 | 16.18 | 18.24 | 15.82 | 11.81 | 17.85 | 12.95 | 14.46 | 17.34 | 33.62 | 15.71 | 44.88 | 11.69 | 31.42 | 19.18 | 16.75 | 16.01 | 16.95 |
| 36.63 | 74.13 | 18.67 | 19.26 | 19.12 | 12.17 | 18.91 | 15.62 | 13.62 | 17.26 | 31.53 | 14.31 | 30.99 | 11.91 | 28.68 | 22.07 | 15.85 | 13.57 | 20.92 |

| Lattitude | Longitude | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Table date from the year 1971 to 1987 Continued* | | | | | | | | | | | | | | | | | | |
| 36.63 | 74.38 | 25.18 | 20.79 | 23.73 | 13.53 | 22.34 | 18.79 | 15.63 | 16.47 | 29.16 | 13.82 | 24.39 | 11.6 | 25.56 | 26.15 | 17.65 | 12.77 | 24.37 |
| 36.63 | 74.63 | 27.14 | 22.27 | 26.86 | 14.45 | 26.31 | 20.83 | 17.97 | 15.7 | 27.31 | 13.68 | 21.92 | 11.43 | 23.56 | 27.76 | 18.38 | 12.76 | 25.47 |
| 36.63 | 74.88 | 26.48 | 23.14 | 28.63 | 14.81 | 28.62 | 21.99 | 19.14 | 15.17 | 25.78 | 13.62 | 20.85 | 11.42 | 21.34 | 26.79 | 17.92 | 12.95 | 25.08 |
| 36.63 | 75.13 | 24.94 | 23.25 | 29.58 | 14.8 | 28.81 | 22.62 | 19.18 | 14.9 | 24.32 | 13.45 | 19.94 | 11.46 | 18.87 | 25.17 | 17.26 | 13.19 | 24.05 |
| 36.63 | 75.38 | 23.34 | 23.24 | 30.36 | 14.78 | 28.98 | 23.36 | 19.11 | 14.67 | 22.92 | 13.3 | 19.04 | 11.49 | 16.86 | 23.8 | 16.77 | 13.4 | 23.17 |
| 36.63 | 75.63 | 23.57 | 23.16 | 30.01 | 14.18 | 28.06 | 23.76 | 19.13 | 14.39 | 20.06 | 13.67 | 18.75 | 11.72 | 20.39 | 26.12 | 18.12 | 13.59 | 23.65 |
| 36.38 | 72.88 | 15.09 | 14.08 | 13.76 | 12.34 | 17.28 | 10.23 | 14.23 | 15.62 | 30.39 | 11.04 | 45.97 | 11.85 | 24.46 | 15.33 | 14.7 | 14.58 | 15.35 |
| 36.38 | 73.13 | 16.54 | 15.78 | 14.91 | 13.31 | 18.57 | 10.66 | 16.09 | 19.15 | 33.4 | 14.21 | 72.17 | 14.71 | 29.74 | 18.01 | 20.82 | 18.42 | 14.93 |
| 36.38 | 73.38 | 17.47 | 17.09 | 15.47 | 13.7 | 19.31 | 11.15 | 16.97 | 17.72 | 34.67 | 19.37 | 80.19 | 19.47 | 32.64 | 20.03 | 23.79 | 20.53 | 14.36 |
| 36.38 | 73.63 | 16.98 | 17.71 | 14.96 | 12.9 | 19.2 | 11.75 | 16.14 | 17.89 | 34.59 | 18.84 | 58.03 | 10.15 | 31.95 | 19.64 | 20.27 | 18.36 | 15.68 |
| 36.38 | 73.88 | 16.7 | 18.41 | 15.05 | 12.2 | 18.75 | 13.56 | 14.2 | 21.46 | 34.3 | 17.95 | 39.83 | 11.31 | 30.03 | 21.21 | 17.45 | 15.41 | 20.17 |
| 36.38 | 74.13 | 18.97 | 19.25 | 16.79 | 12.53 | 18.45 | 16.71 | 12.24 | 22.05 | 34.04 | 17.53 | 30.87 | 12.43 | 28.98 | 25.13 | 18.69 | 13.63 | 26.24 |
| 36.38 | 74.38 | 24.81 | 20.13 | 19.06 | 13.21 | 19.08 | 19 | 11.9 | 21.44 | 33.81 | 17.34 | 27.17 | 12.77 | 28.14 | 28.92 | 21.87 | 13.29 | 30.85 |
| 36.38 | 74.63 | 26.43 | 20.87 | 20.31 | 13.14 | 20.42 | 18.92 | 12.23 | 20.42 | 33.01 | 17.16 | 25.95 | 12.92 | 27.24 | 30.38 | 23.97 | 13.84 | 33.61 |
| 36.38 | 74.88 | 25.96 | 21.45 | 20.96 | 12.88 | 21.68 | 18.03 | 12.88 | 19.31 | 31.79 | 16.97 | 25.69 | 13.73 | 26.87 | 30.16 | 25 | 14.77 | 35.38 |
| 36.38 | 75.13 | 26.02 | 22.53 | 21.83 | 12.88 | 22.91 | 17.8 | 14.46 | 18.56 | 30.41 | 17.07 | 25.98 | 15.43 | 28.23 | 30.33 | 26.74 | 15.91 | 37.32 |
| 36.38 | 75.38 | 25.44 | 25 | 23 | 12.67 | 23.57 | 18.47 | 17.56 | 17.75 | 28.23 | 17.69 | 26.76 | 19.27 | 32.2 | 31.34 | 28.34 | 16.94 | 39.24 |
| 36.38 | 75.63 | 21.58 | 26.64 | 21.96 | 12.8 | 19.67 | 18.13 | 17.95 | 15.3 | 20.95 | 18.65 | 27.36 | 25.75 | 38.37 | 33.02 | 28.72 | 17.32 | 37.25 |
| 36.38 | 75.88 | 22.09 | 27.92 | 20.14 | 14.72 | 16.89 | 17.52 | 17.26 | 13.13 | 16.81 | 20.72 | 26.58 | 26.17 | 40.84 | 34.79 | 29.55 | 19.26 | 33.12 |
| 36.38 | 76.13 | 21.65 | 29.88 | 19.35 | 16.87 | 17.13 | 18.91 | 18.52 | 12.62 | 18.81 | 21.71 | 25.68 | 24.9 | 39.56 | 35.44 | 30.16 | 20.5 | 30.5 |
| 36.13 | 72.63 | 15.6 | 12.03 | 13.24 | 13.34 | 15.7 | 13.2 | 15.77 | 18.98 | 19.83 | 12.8 | 20.48 | 15.08 | 21.72 | 14.63 | 13.1 | 13.76 | 16.45 |
| 36.13 | 72.88 | 15.09 | 12.85 | 13.29 | 12.36 | 16.46 | 10.78 | 15.62 | 19.35 | 26.76 | 10.41 | 37.95 | 14.55 | 25.88 | 14.46 | 14.49 | 13.73 | 17.01 |
| 36.13 | 73.13 | 16.36 | 15.43 | 14.86 | 13.08 | 18.21 | 10.79 | 16.35 | 20.52 | 32.35 | 12.83 | 68.48 | 15.28 | 30.56 | 17.73 | 21.04 | 17.53 | 16.74 |
| 36.13 | 73.38 | 17.37 | 17.49 | 15.3 | 13.44 | 19.3 | 11.36 | 17.04 | 16.62 | 34.01 | 19.15 | 71.44 | 14.22 | 33.09 | 19.65 | 22.83 | 19.53 | 14.39 |
| 36.13 | 73.63 | 16.68 | 18.02 | 14.68 | 12.46 | 19.14 | 12.42 | 15.79 | 20.25 | 33.22 | 17.35 | 47.86 | 10.3 | 31.51 | 19.49 | 18.62 | 16.35 | 16.54 |
| 36.13 | 73.88 | 17.24 | 18.9 | 15.16 | 12.55 | 19.29 | 16.23 | 13.78 | 23.67 | 32.84 | 17.7 | 34.32 | 11.52 | 29.52 | 22.68 | 18.36 | 14.07 | 22.68 |
| 36.13 | 74.13 | 20.85 | 19.59 | 16.78 | 14.8 | 19.54 | 22.46 | 13.43 | 24.62 | 33.64 | 18.24 | 28.51 | 12.52 | 27.76 | 27.81 | 21.18 | 13.19 | 29.18 |
| 36.13 | 74.38 | 24.21 | 19.98 | 17.82 | 15.74 | 19.65 | 25.55 | 14.03 | 24.25 | 34.08 | 18.34 | 26.25 | 12.6 | 26.38 | 30.57 | 23.72 | 13.31 | 33.02 |
| 36.13 | 74.63 | 22.87 | 20.41 | 17.52 | 13.86 | 19.72 | 23.08 | 11.98 | 23.03 | 32.56 | 18.02 | 25.33 | 12.48 | 25.19 | 29.24 | 24.97 | 14.25 | 35.07 |
| 36.13 | 74.88 | 20.63 | 20.81 | 17.13 | 12.62 | 19.16 | 19.64 | 11.9 | 20.99 | 30.08 | 17.45 | 24.55 | 13.83 | 24.78 | 26.99 | 24.98 | 14.95 | 35.74 |
| 36.13 | 75.13 | 19.86 | 21.63 | 17.17 | 11.75 | 17.48 | 17.55 | 12.42 | 18.55 | 26.92 | 16.84 | 23.78 | 16.51 | 26.24 | 25.34 | 24.37 | 14.95 | 35.05 |
| 36.13 | 75.38 | 21.62 | 24.33 | 17.88 | 12.31 | 15.82 | 17.45 | 14.87 | 16.38 | 22.73 | 17 | 23.57 | 20.65 | 30.94 | 25.55 | 25.23 | 15.24 | 34.21 |
| 36.13 | 75.63 | 23.22 | 28.37 | 18.89 | 15.5 | 16.11 | 19.7 | 18.71 | 14.11 | 18.37 | 18.2 | 23.51 | 23.52 | 35.68 | 27.52 | 26.38 | 16.62 | 32.17 |
| 36.13 | 75.88 | 23.59 | 31.11 | 19.23 | 18.71 | 18.49 | 22.73 | 20.82 | 12.72 | 16.62 | 19.01 | 22.77 | 23.74 | 36.15 | 29.1 | 26.9 | 18.13 | 28.91 |
| 36.13 | 76.13 | 25.67 | 32.7 | 19.3 | 20.29 | 20.31 | 25.73 | 22.45 | 12.52 | 17.08 | 19.75 | 22.66 | 23.2 | 35.64 | 30.81 | 27.31 | 19.17 | 27.54 |
| 36.13 | 76.38 | 25.52 | 33.38 | 19.37 | 20.96 | 21.1 | 27.52 | 23.07 | 12.69 | 18.46 | 21.02 | 23.16 | 23.23 | 35.91 | 32.95 | 28.11 | 20 | 27.26 |
| 36.13 | 76.63 | 25.29 | 33.81 | 19.41 | 21.42 | 21.69 | 28.9 | 23.3 | 12.69 | 20.26 | 21.54 | 23.49 | 22.59 | 35.43 | 34.65 | 28.08 | 20.65 | 26.62 |
| 35.88 | 72.63 | 17.49 | 11.7 | 13.3 | 15.13 | 15.85 | 14.99 | 20.08 | 22.13 | 16.71 | 11.86 | 17.69 | 15.7 | 22.98 | 13.97 | 13.94 | 13.64 | 16.26 |
| 35.88 | 73.13 | 17.65 | 16.1 | 14.58 | 13.05 | 18.61 | 11.68 | 18.65 | 19.77 | 30.59 | 13.13 | 53.17 | 17.35 | 33.87 | 16.24 | 20.59 | 15.27 | 16.24 |
| 35.88 | 73.38 | 16.68 | 18.43 | 14.68 | 12.2 | 18.68 | 12.59 | 17.06 | 20.81 | 30.55 | 15.47 | 46.72 | 12.64 | 33.19 | 18.69 | 18.73 | 15 | 15.58 |
| 35.88 | 73.63 | 16.42 | 19.14 | 14.97 | 11.51 | 18.14 | 15.32 | 15.45 | 22.99 | 28.87 | 15.4 | 35.57 | 11.97 | 32.05 | 19.99 | 18.03 | 13.19 | 19.51 |
| 35.88 | 73.88 | 18.38 | 20.08 | 16.25 | 12.39 | 18.44 | 21.66 | 13.55 | 24.35 | 28.2 | 16.07 | 29.53 | 12.06 | 31.1 | 23.12 | 20.68 | 12.6 | 25.25 |
| 35.88 | 74.13 | 22.42 | 20.33 | 17.48 | 14.92 | 19.38 | 28.43 | 13.35 | 24.53 | 29.58 | 16.91 | 26.62 | 12.14 | 29.1 | 26.66 | 23.42 | 12.65 | 30.13 |
| 35.88 | 74.38 | 21.67 | 20.02 | 17.13 | 15.03 | 20.15 | 28.06 | 12.98 | 23.87 | 31.27 | 17.6 | 25.21 | 11.81 | 24.25 | 28.37 | 23.75 | 13.63 | 33.45 |
| 35.88 | 74.63 | 17.47 | 20.01 | 16.08 | 13.98 | 20.24 | 23.36 | 12.31 | 22.26 | 29.82 | 17.33 | 24.11 | 11.68 | 20.97 | 26.59 | 22.92 | 15.33 | 34.82 |
| 35.88 | 74.88 | 17.43 | 20.31 | 16.02 | 12.86 | 18.35 | 19.09 | 12.46 | 18.71 | 25.17 | 15.71 | 22.12 | 12.68 | 20.82 | 22.89 | 20.33 | 14.49 | 31.59 |
| 35.88 | 75.13 | 19.72 | 21.51 | 16.69 | 12.18 | 16.37 | 17.36 | 12.83 | 15.77 | 21.17 | 14.72 | 20.49 | 13.73 | 22.58 | 20.67 | 18.17 | 13.63 | 27.61 |
| 35.88 | 75.38 | 22.32 | 24.32 | 17.81 | 13.57 | 15.95 | 18.39 | 15.08 | 14 | 18.46 | 14.91 | 20.14 | 16.21 | 26.27 | 20.84 | 18.41 | 14.2 | 26.22 |
| 35.88 | 75.63 | 27.74 | 28.58 | 19.13 | 16.91 | 17.66 | 22.12 | 19.26 | 13.01 | 16.79 | 16.44 | 20.9 | 19.58 | 31.64 | 23.48 | 21.92 | 16.31 | 26.78 |
| 35.88 | 75.88 | 27.4 | 32.2 | 19.52 | 19.74 | 20.17 | 26.11 | 22.15 | 12.75 | 16.63 | 18.82 | 21.95 | 22.73 | 35.07 | 27.96 | 26.18 | 18.4 | 27.35 |
| 35.88 | 76.13 | 26.78 | 33.43 | 19.46 | 21.08 | 21.6 | 29.12 | 23.19 | 12.82 | 17.44 | 20.81 | 22.79 | 23.57 | 36.35 | 31.31 | 27.67 | 19.44 | 27.57 |
| 35.88 | 76.38 | 25.29 | 33.76 | 19.35 | 21.66 | 22.12 | 30.06 | 23.33 | 12.8 | 18.52 | 22.07 | 23.3 | 23.64 | 36.74 | 33.11 | 28.25 | 20.04 | 27.47 |

| Lattitude | Longitude | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Table date from the year 1971 to 1987 Continued* | | | | | | | | | | | | | | | | | | |
| 35.88 | 76.63 | 24.15 | 33.88 | 19.18 | 21.87 | 22.45 | 30.5 | 23.2 | 12.87 | 20.3 | 22.53 | 23.73 | 23.2 | 36.47 | 34.86 | 28.2 | 20.57 | 27.27 |
| 35.88 | 79.38 | 22.71 | 28.98 | 29.14 | 16.78 | 18.77 | 19.71 | 25.03 | 18.65 | 18.75 | 16.14 | 23.6 | 16.92 | 28.24 | 15.97 | 14.32 | 28.2 | 20.75 |
| 35.63 | 73.38 | 17.08 | 20.32 | 15.56 | 11.36 | 17.23 | 17.2 | 17.87 | 23.79 | 25.64 | 14.66 | 33.56 | 14.73 | 35.49 | 20.48 | 20 | 12.63 | 19.15 |
| 35.63 | 73.63 | 18.32 | 21.47 | 17.11 | 11.83 | 16.16 | 23.31 | 17.64 | 24.1 | 23.93 | 15.21 | 29.6 | 14.36 | 35.29 | 22.48 | 21.95 | 12.57 | 22.9 |
| 35.63 | 73.88 | 21.72 | 22.78 | 18.78 | 13.42 | 16.65 | 33.54 | 20.02 | 25.34 | 23.13 | 15.6 | 27.66 | 14.41 | 36.23 | 24.74 | 25.29 | 12.98 | 26.32 |
| 35.63 | 74.13 | 23.63 | 22.88 | 18.99 | 14.03 | 17.81 | 36.89 | 18.62 | 24.83 | 23.45 | 15.61 | 26.32 | 13.84 | 34.45 | 25.25 | 26.36 | 13.04 | 28.75 |
| 35.63 | 74.38 | 19.19 | 21.21 | 17.21 | 13.07 | 18.43 | 25.95 | 13.39 | 21.52 | 24.37 | 15.43 | 24.37 | 12.66 | 25.78 | 23.48 | 22.62 | 13.43 | 30.52 |
| 35.63 | 74.63 | 17.76 | 20.1 | 16.18 | 13.09 | 18 | 18.19 | 12.56 | 17.94 | 22.94 | 14.89 | 21.7 | 12.6 | 20.33 | 20.92 | 18.88 | 13.92 | 29.44 |
| 35.63 | 74.88 | 20.74 | 20.52 | 16.75 | 12.53 | 16.95 | 15.78 | 12.61 | 15.43 | 19.82 | 14.4 | 19.53 | 13.31 | 20.88 | 18.51 | 16.62 | 13.21 | 25.17 |
| 35.63 | 75.13 | 22.35 | 22 | 17.55 | 12.45 | 16.04 | 15.92 | 13.21 | 14.13 | 18.05 | 14.45 | 18.72 | 14.15 | 23.17 | 18.13 | 16.01 | 13.51 | 23.04 |
| 35.63 | 75.38 | 24.03 | 25.22 | 18.43 | 14.36 | 16.41 | 18.3 | 15.64 | 13.18 | 16.97 | 14.98 | 19.15 | 16.5 | 27.06 | 19.85 | 17.63 | 14.77 | 23.78 |
| 35.63 | 75.63 | 29.38 | 29.64 | 19.46 | 17.79 | 18.55 | 22.89 | 19.92 | 12.64 | 16.61 | 16.68 | 20.61 | 20.14 | 32.05 | 24.34 | 22.53 | 17.28 | 25.86 |
| 35.63 | 75.88 | 29.51 | 32.95 | 19.57 | 20.29 | 20.75 | 27.4 | 22.61 | 12.7 | 17.53 | 19.52 | 22.29 | 22.86 | 34.94 | 30.33 | 26.98 | 19.36 | 26.84 |
| 35.63 | 76.13 | 26.59 | 33.82 | 19.55 | 21.44 | 21.82 | 30.15 | 23.29 | 12.73 | 19.19 | 22.1 | 23.44 | 23.37 | 36.4 | 33.62 | 28.22 | 20.28 | 27.22 |
| 35.63 | 76.38 | 24.68 | 33.97 | 19.35 | 21.78 | 22.34 | 31.2 | 23.17 | 12.82 | 20.69 | 23.06 | 23.96 | 23.32 | 36.77 | 35.14 | 28.36 | 20.68 | 27.38 |
| 35.63 | 76.63 | 23.32 | 33.8 | 19.17 | 21.86 | 22.71 | 31.78 | 22.91 | 12.84 | 21.26 | 22.51 | 24.42 | 23.17 | 36.67 | 35.6 | 27.91 | 20.88 | 27.56 |
| 35.63 | 76.88 | 23.07 | 33.43 | 19.06 | 21.84 | 22.78 | 31.21 | 23.06 | 12.74 | 21.54 | 20.8 | 24.33 | 22.33 | 35.31 | 35.75 | 27.67 | 21.06 | 26.69 |
| 35.63 | 77.13 | 23.31 | 32.85 | 18.95 | 21.73 | 22.53 | 30.63 | 23.3 | 12.43 | 21.69 | 19.68 | 23.51 | 21.47 | 33.81 | 34.09 | 26.66 | 20.92 | 25.53 |
| 35.63 | 77.38 | 22.65 | 32.51 | 18.82 | 21.45 | 22.29 | 31.94 | 21.8 | 12.53 | 20.46 | 21.72 | 23.18 | 21.98 | 34.65 | 32.42 | 27.35 | 20.32 | 26.76 |
| 35.63 | 78.38 | 19.78 | 19.68 | 11.79 | 13.88 | 13.02 | 15.65 | 11.23 | 10.94 | 11.81 | 15.61 | 12.85 | 10.86 | 15.97 | 12.36 | 13.31 | 12.74 | 14.09 |
| 35.63 | 78.63 | 16.35 | 18.6 | 11.64 | 13.13 | 11.34 | 13.54 | 11.28 | 11.18 | 10.89 | 12.99 | 13.5 | 10.78 | 15.07 | 10.54 | 10.73 | 11.52 | 13.92 |
| 35.63 | 78.88 | 15.97 | 19.95 | 13 | 13.53 | 11.12 | 13.25 | 12.74 | 11.9 | 10.99 | 11.8 | 15.05 | 11.52 | 16.51 | 10.1 | 10.02 | 12.73 | 15.04 |
| 35.63 | 79.13 | 16.34 | 21.92 | 15.53 | 14.47 | 12.05 | 13.62 | 14.9 | 12.84 | 11.77 | 11.12 | 16.8 | 12.55 | 18.99 | 10.32 | 9.86 | 15.22 | 16.32 |
| 35.63 | 79.38 | 17.54 | 23.99 | 19.15 | 15.36 | 14.89 | 14.44 | 17.86 | 14.11 | 13.28 | 11.39 | 18.69 | 13.87 | 21.76 | 11.56 | 10.01 | 18.49 | 17.7 |
| 35.63 | 79.63 | 20.19 | 26.51 | 25.61 | 16.37 | 22.58 | 16.83 | 22.78 | 16.85 | 16.15 | 14.45 | 21.67 | 16.07 | 25.21 | 14.66 | 11.24 | 23.88 | 19.49 |
| 35.63 | 79.88 | 23.95 | 28.95 | 36.07 | 17.49 | 39.04 | 21.53 | 28.89 | 21.13 | 20.96 | 23.56 | 25.4 | 19.09 | 28.62 | 20.25 | 18.53 | 31.99 | 21.25 |
| 35.63 | 80.13 | 25.26 | 29.65 | 42.19 | 17.87 | 53.12 | 23.44 | 31.71 | 23.07 | 24.34 | 29.5 | 27.29 | 20.76 | 28.55 | 23.94 | 27.52 | 34.37 | 21.97 |
| 35.38 | 73.88 | 24.72 | 23.92 | 20.37 | 16.06 | 15.55 | 35.22 | 21.56 | 20.55 | 20.91 | 15.27 | 26.24 | 15.25 | 38.53 | 24.05 | 30.01 | 14.03 | 25.72 |
| 35.38 | 74.13 | 24.6 | 24.29 | 20.63 | 14.82 | 15.8 | 38.15 | 24.76 | 22.32 | 21.08 | 15.3 | 25.95 | 16.22 | 37.12 | 24.14 | 27.7 | 13.97 | 26.74 |
| 35.38 | 74.38 | 19.09 | 21.21 | 18.15 | 12.29 | 14.98 | 20.69 | 14.01 | 16.54 | 20.07 | 13.9 | 22.46 | 13.66 | 26.16 | 18.68 | 19.49 | 12.94 | 25 |
| 35.38 | 74.63 | 19.73 | 19.99 | 17.15 | 12.13 | 15.68 | 15.12 | 12.25 | 14.25 | 18.29 | 13.83 | 19.06 | 12.97 | 21.27 | 16.63 | 15.52 | 12.83 | 21.99 |
| 35.38 | 74.88 | 22.58 | 20.56 | 17.62 | 12.21 | 16.13 | 14.45 | 12.43 | 13.8 | 17.21 | 14.51 | 17.74 | 13.48 | 21.8 | 16.49 | 14.77 | 13.44 | 20.12 |
| 35.38 | 75.13 | 23.55 | 22.12 | 18.11 | 12.53 | 15.89 | 15.23 | 13.17 | 13.44 | 16.69 | 14.79 | 17.65 | 14.3 | 23.82 | 17.12 | 15.1 | 14.05 | 20.3 |
| 35.38 | 75.38 | 22.6 | 25.47 | 18.59 | 14.89 | 16.65 | 17.69 | 15.07 | 12.7 | 16.03 | 14.75 | 18.15 | 16.05 | 27.15 | 19.14 | 16.9 | 15.23 | 21.85 |
| 35.38 | 75.63 | 28.61 | 30.7 | 19.44 | 18.88 | 19.58 | 24.04 | 20.46 | 12.31 | 17.01 | 16.68 | 20.7 | 20.54 | 32.09 | 25.94 | 23.43 | 18.27 | 25.35 |
| 35.38 | 75.88 | 26.95 | 33.95 | 19.56 | 21.44 | 22.03 | 31.36 | 23.11 | 12.86 | 20.27 | 22.39 | 24.62 | 22.84 | 35.67 | 35.46 | 28.35 | 20.8 | 27.15 |
| 35.38 | 76.13 | 24.64 | 33.99 | 19.39 | 21.8 | 22.42 | 32.01 | 23.19 | 12.75 | 21.43 | 22.86 | 24.57 | 22.78 | 35.48 | 36.31 | 28.2 | 21.33 | 26.93 |
| 35.38 | 76.38 | 23.9 | 33.34 | 19.31 | 21.65 | 22.39 | 32.05 | 23.15 | 12.6 | 21.7 | 21.14 | 24.54 | 22.63 | 34.33 | 35.56 | 27.74 | 21.45 | 26.75 |
| 35.38 | 76.63 | 24.41 | 32.73 | 19.39 | 21.51 | 22.4 | 32.1 | 23.43 | 12.2 | 22.07 | 19.57 | 25.3 | 22.44 | 33.76 | 34.78 | 27.4 | 21.43 | 26.65 |
| 35.38 | 76.88 | 25.95 | 32.16 | 19.43 | 21.42 | 22.28 | 29.76 | 23.46 | 11.87 | 22.2 | 18.35 | 25.67 | 21.28 | 32.99 | 33.33 | 25.41 | 21.39 | 26.08 |
| 35.38 | 77.13 | 24.18 | 32.03 | 19.33 | 21.49 | 22.56 | 32.28 | 23.6 | 11.9 | 22.61 | 18.82 | 25.78 | 21.79 | 33.32 | 33.35 | 27 | 21.36 | 26.76 |
| 35.38 | 77.38 | 21.84 | 32.76 | 18.82 | 21.48 | 23.71 | 38.75 | 21.04 | 12.76 | 19.62 | 22.87 | 26.72 | 22.61 | 35.9 | 35.43 | 28.44 | 21.37 | 29.57 |
| 35.38 | 77.63 | 23.75 | 32.79 | 18.37 | 20.6 | 23.64 | 38.23 | 19.3 | 13.81 | 17.51 | 25.57 | 27.29 | 21.67 | 35.87 | 34.32 | 28.33 | 21.36 | 30.28 |
| 35.38 | 77.88 | 25.64 | 31.43 | 17.8 | 19.55 | 22.5 | 35.9 | 18.26 | 14.26 | 16.23 | 25.56 | 25.29 | 20.39 | 33.19 | 31.12 | 27.1 | 20.51 | 28.32 |
| 35.38 | 78.13 | 27.46 | 27.92 | 16.21 | 17.99 | 19.91 | 30.6 | 15.99 | 12.96 | 14.95 | 23.57 | 19.65 | 17.3 | 27.25 | 24.92 | 23.52 | 18.13 | 23.23 |
| 35.38 | 78.38 | 24 | 22.58 | 13.28 | 15.82 | 16.34 | 20.57 | 12.68 | 11.12 | 13.3 | 18.87 | 14.18 | 13.67 | 19.78 | 16.55 | 17.34 | 14.9 | 16.85 |
| 35.38 | 78.63 | 17.25 | 17.91 | 11.19 | 13.72 | 12.84 | 15.11 | 10.75 | 10.74 | 11.12 | 14.04 | 12.41 | 10.67 | 15.52 | 11.4 | 12.28 | 12.34 | 12.96 |
| 35.38 | 78.88 | 13.94 | 16.34 | 10.92 | 13.09 | 11.1 | 12.55 | 10.58 | 10.86 | 10.5 | 11.79 | 12.75 | 10.4 | 14.78 | 9.8 | 10.26 | 11.77 | 12.46 |
| 35.38 | 79.13 | 13.43 | 17.1 | 11.88 | 13.39 | 11.06 | 11.87 | 11.16 | 11.26 | 10.58 | 10.98 | 13.64 | 10.92 | 15.64 | 9.48 | 10.05 | 12.89 | 13.18 |
| 35.38 | 79.38 | 13.96 | 18.7 | 13.25 | 14.08 | 12.18 | 11.97 | 12.6 | 11.6 | 10.87 | 10.76 | 14.65 | 11.46 | 17.24 | 9.73 | 9.97 | 14 | 14.31 |
| 35.38 | 79.63 | 15.42 | 21.22 | 16.17 | 14.78 | 15.76 | 12.63 | 15.64 | 12.62 | 11.76 | 11.2 | 16.64 | 12.76 | 19.28 | 10.79 | 9.89 | 15.99 | 16.14 |
| 35.38 | 79.88 | 18.88 | 25 | 24.01 | 16.02 | 26.76 | 14.97 | 21.62 | 15.72 | 14.96 | 14.37 | 20.65 | 15.96 | 23.16 | 14.49 | 10.56 | 21.34 | 18.84 |

| Lattitude | Longitude | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Table date from the year 1971 to 1987 Continued* | | | | | | | | | | | | | | | | | | |
| 35.38 | 80.13 | 23.46 | 28.11 | 36.14 | 17.25 | 47.58 | 19.73 | 28.4 | 20.47 | 20.71 | 23.94 | 25.25 | 19.8 | 26.41 | 21.29 | 16.68 | 29.69 | 21.17 |
| 35.13 | 74.13 | 16.44 | 18.09 | 17.83 | 12.94 | 11.34 | 15.76 | 12.2 | 11.97 | 17.88 | 13.24 | 21.37 | 12.38 | 24.85 | 13.76 | 17.32 | 13.02 | 20.45 |
| 35.13 | 74.38 | 13.64 | 15.81 | 15.81 | 11.38 | 11.42 | 12.79 | 10.81 | 11.16 | 14.96 | 12.14 | 17.28 | 11.14 | 17.65 | 12.28 | 12 | 11.84 | 15.89 |
| 35.13 | 74.63 | 13.87 | 15.61 | 15.2 | 11.17 | 12.07 | 12.23 | 10.89 | 11.14 | 13.61 | 12.26 | 15.38 | 10.93 | 16.03 | 12.26 | 11.12 | 11.73 | 14.23 |
| 35.13 | 74.88 | 14.61 | 16.37 | 15.39 | 11.33 | 12.7 | 12.39 | 10.92 | 11.25 | 13.28 | 12.68 | 14.91 | 11.03 | 16.4 | 12.75 | 11.12 | 12.04 | 14.11 |
| 35.13 | 75.13 | 15.36 | 18.23 | 16.07 | 12.04 | 13.46 | 13.15 | 11.33 | 11.32 | 13.39 | 13.03 | 15.17 | 11.45 | 18.17 | 13.6 | 11.68 | 12.54 | 15.26 |
| 35.13 | 75.38 | 16.47 | 22.41 | 17.44 | 14.51 | 15.49 | 15.66 | 13.01 | 11.49 | 13.85 | 13.61 | 16.18 | 13.03 | 22.67 | 15.89 | 13.87 | 14 | 18.15 |
| 35.13 | 75.63 | 22.63 | 28.15 | 18.95 | 18.37 | 18.77 | 21.91 | 18 | 11.46 | 15.83 | 15.3 | 19.32 | 17.4 | 28.53 | 21.94 | 19.7 | 17.27 | 22.6 |
| 35.13 | 75.88 | 29.46 | 31.83 | 19.53 | 20.72 | 21.04 | 28.58 | 22.77 | 11.66 | 18.55 | 19.04 | 23.94 | 21.27 | 32.32 | 31.08 | 26.05 | 20.14 | 25.48 |
| 35.13 | 76.13 | 27.94 | 31.72 | 19.52 | 21.08 | 21.65 | 29.18 | 23.33 | 11.67 | 20.36 | 18.92 | 25.09 | 20.79 | 32.28 | 32.14 | 25.37 | 20.99 | 25.66 |
| 35.13 | 76.38 | 26.81 | 30.88 | 19.5 | 20.97 | 21.67 | 27.46 | 22.63 | 11.44 | 20.92 | 17.25 | 25.27 | 19.67 | 31.01 | 31.07 | 22.86 | 21.31 | 25.05 |
| 35.13 | 76.63 | 26.3 | 30.42 | 19.77 | 20.9 | 21.82 | 26.29 | 22.76 | 11.3 | 21.29 | 16.68 | 26.06 | 19.33 | 30.91 | 30.59 | 21.56 | 21.58 | 24.86 |
| 35.13 | 76.88 | 26.62 | 30.39 | 20.05 | 20.91 | 22.11 | 26.97 | 22.99 | 11.24 | 21.8 | 16.65 | 27.24 | 19.8 | 31.48 | 30.56 | 21.51 | 21.77 | 25.26 |
| 35.13 | 77.13 | 23.68 | 31.15 | 19.67 | 21.31 | 23.09 | 35.69 | 23.87 | 11.63 | 23.17 | 17.3 | 28.23 | 22.11 | 33.23 | 33.63 | 28.21 | 21.91 | 28.44 |
| 35.13 | 77.38 | 22.04 | 32.66 | 18.59 | 21.25 | 24.47 | 39.42 | 20.4 | 13.42 | 20.07 | 23.34 | 28.47 | 22.47 | 35.88 | 35.31 | 28.91 | 22.72 | 30.43 |
| 35.13 | 77.63 | 25.94 | 32.04 | 17.81 | 20.85 | 24.83 | 38.14 | 19.38 | 14.21 | 19.44 | 23.86 | 26.98 | 21.94 | 36.53 | 36.96 | 29.02 | 23.31 | 30.75 |
| 35.13 | 77.88 | 28.41 | 30.58 | 17.39 | 20.48 | 24.74 | 37.42 | 18.94 | 14.58 | 17.95 | 23.84 | 26.77 | 21.61 | 35.76 | 35.93 | 28.51 | 23.35 | 30.99 |
| 35.13 | 78.13 | 28.19 | 29.69 | 17.3 | 19.59 | 23.12 | 35.88 | 18.18 | 14.68 | 15.87 | 24.43 | 24.99 | 20.04 | 32.76 | 31.76 | 26.82 | 21.29 | 28.63 |
| 35.13 | 78.38 | 28.07 | 27.29 | 16.13 | 18.01 | 20.26 | 31.1 | 15.97 | 13.32 | 14.53 | 23.3 | 19.47 | 16.95 | 26.6 | 25.99 | 23.3 | 18.24 | 23.16 |
| 35.13 | 78.63 | 22.12 | 21.11 | 12.55 | 15.65 | 16.09 | 19.47 | 12.35 | 11 | 12.51 | 17.4 | 13.47 | 13.83 | 18.77 | 15.95 | 15.91 | 14.49 | 15.42 |
| 35.13 | 78.88 | 13.56 | 15.3 | 10.58 | 13.08 | 11.66 | 12.75 | 10.23 | 10.56 | 10.65 | 11.86 | 12.04 | 10.26 | 14.61 | 10.23 | 10.62 | 11.96 | 11.54 |
| 35.13 | 79.13 | 11.98 | 14.25 | 10.84 | 12.39 | 10.78 | 11.06 | 9.91 | 10.72 | 10.48 | 10.7 | 12.19 | 10.36 | 14.06 | 9.69 | 10.51 | 12.37 | 11.32 |
| 35.13 | 79.38 | 11.57 | 14.59 | 11.13 | 12.57 | 11.09 | 10.84 | 10.27 | 10.66 | 10.38 | 10.73 | 12.27 | 10.33 | 14.5 | 9.77 | 10.93 | 12.46 | 11.67 |
| 35.13 | 79.63 | 11.53 | 15.68 | 11.78 | 13.12 | 12.08 | 10.85 | 11.37 | 10.68 | 10.31 | 10.83 | 12.84 | 10.58 | 15.12 | 9.99 | 11.52 | 12.73 | 12.65 |
| 35.13 | 79.88 | 12.74 | 18.27 | 13.69 | 13.79 | 15.32 | 11.16 | 14.09 | 11.11 | 10.94 | 11.27 | 14.91 | 11.99 | 16.9 | 10.79 | 12.15 | 14.09 | 14.7 |
| 35.13 | 80.13 | 15.6 | 22.16 | 18.23 | 15.1 | 25.19 | 12.32 | 19.7 | 12.75 | 13.64 | 14.07 | 19.24 | 15.49 | 20.01 | 13.73 | 13.7 | 17.51 | 17.74 |
| 34.88 | 74.13 | 13.9 | 13.57 | 14.52 | 12.43 | 11.98 | 13.3 | 11.58 | 11.49 | 14.96 | 13.34 | 17.18 | 12.39 | 17.78 | 12.1 | 12.73 | 12.43 | 16.1 |
| 34.88 | 74.38 | 12.27 | 13.17 | 14.2 | 11.81 | 11.61 | 12.19 | 10.29 | 11.17 | 13.05 | 12.11 | 14.98 | 11.75 | 15.92 | 11.28 | 11.24 | 11.97 | 13.32 |
| 34.88 | 74.63 | 12.3 | 12.61 | 13.63 | 11.35 | 11.61 | 11.89 | 10.76 | 10.95 | 11.78 | 11.7 | 13.58 | 11.01 | 14.68 | 11.03 | 10.71 | 11.59 | 11.87 |
| 34.88 | 74.88 | 12.28 | 12.58 | 13.37 | 11.32 | 11.7 | 11.89 | 10.85 | 10.77 | 11.32 | 11.67 | 13.01 | 10.71 | 14.3 | 10.99 | 10.54 | 11.4 | 11.53 |
| 34.88 | 75.13 | 12 | 12.93 | 13.34 | 11.65 | 11.92 | 11.75 | 10.75 | 10.6 | 11.19 | 11.55 | 12.72 | 10.46 | 14.2 | 11.06 | 10.53 | 11.33 | 11.52 |
| 34.88 | 75.38 | 11.99 | 14.27 | 13.95 | 12.73 | 12.74 | 11.92 | 10.98 | 10.49 | 11.4 | 11.6 | 12.95 | 10.26 | 15.04 | 11.53 | 10.94 | 11.62 | 12.13 |
| 34.88 | 75.63 | 13.03 | 17.96 | 15.82 | 15.2 | 14.91 | 13.34 | 12.38 | 10.52 | 12.36 | 12.14 | 14.59 | 10.52 | 18.13 | 13.52 | 12.61 | 12.98 | 14.68 |
| 34.88 | 75.88 | 17.29 | 23 | 18.17 | 18 | 17.9 | 17.23 | 16.29 | 10.6 | 14.59 | 13.35 | 18.54 | 12.66 | 23.23 | 18.32 | 16.13 | 16.04 | 19.16 |
| 34.88 | 76.13 | 28.56 | 26.78 | 19.59 | 19.72 | 20.21 | 21.3 | 21.27 | 10.93 | 17.45 | 15.33 | 23.85 | 16.39 | 28.17 | 25 | 19.53 | 19.77 | 22.88 |
| 34.88 | 76.38 | 29.49 | 27.63 | 20.06 | 20.55 | 21.5 | 23.33 | 22.44 | 11.23 | 20.09 | 16.53 | 26.64 | 18.23 | 29.85 | 28.53 | 19.98 | 20.9 | 24.02 |
| 34.88 | 76.63 | 27.94 | 27.85 | 20.34 | 20.61 | 22.16 | 24.32 | 22.93 | 11.38 | 21.68 | 16.79 | 28.54 | 18.55 | 30.36 | 28.61 | 19.76 | 21.29 | 24.39 |
| 34.88 | 76.88 | 26.54 | 28.19 | 20.29 | 20.75 | 22.68 | 28.31 | 24.06 | 11.26 | 22.5 | 15.97 | 29.72 | 20.15 | 31.75 | 30.32 | 21.86 | 21.74 | 25.81 |
| 34.88 | 77.13 | 21.86 | 29.36 | 19.35 | 21.21 | 23.73 | 38.11 | 23.42 | 11.86 | 22.69 | 17.61 | 30.1 | 22.45 | 33.07 | 35.14 | 30.54 | 22.61 | 28.69 |
| 34.88 | 77.38 | 23.62 | 30.66 | 18.04 | 21.01 | 24.88 | 38.13 | 20.24 | 13.77 | 21.28 | 22.72 | 27.85 | 22.59 | 35.14 | 36.94 | 29.4 | 23.53 | 30.46 |
| 34.88 | 77.63 | 27.54 | 26.45 | 17.56 | 20.75 | 24.75 | 36.06 | 19.27 | 14.64 | 20.49 | 23.69 | 26.59 | 21.44 | 35.51 | 34.73 | 28.35 | 24.04 | 31.96 |
| 34.88 | 77.88 | 29.74 | 24.08 | 17.72 | 20.66 | 24.66 | 36.85 | 18.6 | 15.79 | 18.87 | 24.5 | 25.56 | 19.76 | 35.06 | 30.19 | 26.72 | 23.38 | 33.11 |
| 34.88 | 78.13 | 31.91 | 24.39 | 18.28 | 20.41 | 24.32 | 38.6 | 18.16 | 16.52 | 17.95 | 25.29 | 24.24 | 19.1 | 33.7 | 29.78 | 25.75 | 22.18 | 33.35 |
| 34.88 | 78.38 | 33.49 | 24.18 | 18.37 | 19.74 | 23.12 | 35.86 | 17.79 | 16.37 | 16.98 | 25.68 | 21.81 | 16.61 | 30.93 | 27.89 | 24.63 | 20.77 | 31.18 |
| 34.88 | 78.63 | 21.79 | 20.03 | 14.98 | 17.5 | 18.94 | 27.64 | 13.53 | 13.77 | 14.21 | 22.13 | 15.06 | 11.53 | 23.03 | 18.73 | 18.87 | 15.7 | 21.96 |
| 34.88 | 78.88 | 10.6 | 12.84 | 11.58 | 12.34 | 12.65 | 13.63 | 9.56 | 11.66 | 11.17 | 12.44 | 10.84 | 9.57 | 13.86 | 11.63 | 15.05 | 11.95 | 10.24 |
| 34.88 | 79.13 | 9.78 | 11.44 | 11.38 | 11.33 | 11.59 | 10.82 | 9.27 | 11.37 | 11.17 | 10.82 | 10.82 | 9.85 | 12.87 | 10.96 | 14.8 | 11.95 | 9.65 |
| 34.88 | 79.38 | 9.9 | 11.42 | 11.55 | 11.34 | 11.73 | 10.95 | 9.37 | 11.46 | 11.22 | 10.86 | 10.74 | 9.86 | 12.77 | 11.1 | 15.58 | 11.97 | 9.75 |
| 34.88 | 79.63 | 10.37 | 11.68 | 12.09 | 11.66 | 12.29 | 11.46 | 9.77 | 11.77 | 11.34 | 11.22 | 10.85 | 9.8 | 13.04 | 11.56 | 17.01 | 12.3 | 10.14 |
| 34.88 | 79.88 | 11.37 | 12.59 | 13.11 | 12.19 | 13.67 | 12.4 | 10.93 | 12.26 | 11.68 | 12.01 | 11.75 | 10.12 | 14.25 | 12.5 | 19.24 | 13.16 | 11.16 |
| 34.63 | 73.88 | 16.01 | 10.34 | 11.58 | 11.67 | 12.35 | 12.71 | 14.53 | 12.53 | 11.55 | 12.08 | 15.09 | 10.55 | 14.31 | 11.71 | 13.43 | 10.83 | 12.76 |
| 34.63 | 74.13 | 14.67 | 13.03 | 13.82 | 12.68 | 12.57 | 13.42 | 12.21 | 12.16 | 13.95 | 13.62 | 16.64 | 12.84 | 17.61 | 13.17 | 13.42 | 12.65 | 16.73 |

| Lattitude | Longitude | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Table date from the year 1971 to 1987 Continued* | | | | | | | | | | | | | | | | | | |
| 34.63 | 74.38 | 13.33 | 12.74 | 14.03 | 12.66 | 12.87 | 12.81 | 10.83 | 12.37 | 13.35 | 12.57 | 15.39 | 13.18 | 17.8 | 12.55 | 12.81 | 13.01 | 14.68 |
| 34.63 | 74.63 | 12.86 | 11.88 | 13.44 | 12.3 | 12.96 | 12.45 | 11.05 | 12.08 | 11.92 | 11.76 | 13.92 | 11.99 | 16.86 | 11.79 | 12.08 | 12.7 | 12.72 |
| 34.63 | 74.88 | 12.57 | 11.45 | 12.88 | 11.79 | 12.6 | 12.18 | 11.11 | 11.46 | 11.3 | 11.42 | 13.06 | 11.26 | 15.63 | 11.36 | 11.4 | 12.04 | 11.76 |
| 34.63 | 75.13 | 11.73 | 11.08 | 12.23 | 11.47 | 12.01 | 11.54 | 10.76 | 10.9 | 10.97 | 11.02 | 12.26 | 10.75 | 14.19 | 11.03 | 10.75 | 11.35 | 11.2 |
| 34.63 | 75.38 | 11.74 | 11.31 | 12.38 | 11.96 | 12.17 | 11.47 | 10.96 | 10.86 | 11.17 | 11.06 | 12.29 | 10.67 | 14.19 | 11.19 | 10.91 | 11.37 | 11.34 |
| 34.63 | 75.63 | 13.02 | 12.78 | 13.79 | 13.73 | 13.5 | 12.19 | 12.12 | 11.12 | 12.08 | 11.58 | 13.44 | 10.8 | 16.38 | 12.18 | 12.26 | 12.31 | 12.83 |
| 34.63 | 75.88 | 17.53 | 16.87 | 16.61 | 16.31 | 16.17 | 14.4 | 15.64 | 11.34 | 13.76 | 12.62 | 16.69 | 11.55 | 21.16 | 15.13 | 15.75 | 14.74 | 16.28 |
| 34.63 | 76.13 | 33.3 | 22.45 | 19.55 | 18.89 | 19.38 | 18.68 | 22 | 11.68 | 16.24 | 14.75 | 23.02 | 14.91 | 27.75 | 21.73 | 19.86 | 19 | 21.73 |
| 34.63 | 76.38 | 40.45 | 25.03 | 20.95 | 20.43 | 21.87 | 23.16 | 25.11 | 12.18 | 20.4 | 17.97 | 29.8 | 19.19 | 34.06 | 28.34 | 22.87 | 20.45 | 25.87 |
| 34.63 | 76.63 | 37.32 | 25.23 | 20.73 | 20.55 | 22.1 | 25.09 | 25.33 | 11.88 | 20.81 | 17.73 | 30.13 | 19.96 | 34.08 | 29.54 | 23.03 | 20.67 | 26.26 |
| 34.63 | 76.88 | 30.39 | 25.39 | 20.16 | 20.83 | 22.28 | 31.86 | 24.78 | 11.67 | 20.63 | 17.8 | 29.77 | 22.18 | 34.16 | 32.44 | 27.91 | 21.05 | 27.68 |
| 34.63 | 77.13 | 22.54 | 25.5 | 19.16 | 21.1 | 23.56 | 38.78 | 21.09 | 13.13 | 20.9 | 23.11 | 29.88 | 23.89 | 36.22 | 34.99 | 30.26 | 22.31 | 30.51 |
| 34.63 | 77.38 | 26.16 | 24.11 | 18.24 | 20.75 | 24.33 | 36.81 | 19 | 14.35 | 19.74 | 24.17 | 27.89 | 22.36 | 35.32 | 32.15 | 28.59 | 23.39 | 32.24 |
| 34.63 | 77.63 | 33.08 | 22.08 | 18.58 | 20.72 | 24.35 | 35.85 | 17.76 | 16.59 | 19.63 | 25.82 | 24.35 | 18.08 | 32.18 | 25.37 | 25.69 | 22.59 | 34.48 |
| 34.63 | 77.88 | 42.16 | 20.23 | 19.79 | 21.36 | 24.68 | 34.83 | 16.48 | 20.76 | 20.46 | 31.04 | 20.97 | 13.32 | 27.79 | 22.82 | 22.24 | 21.8 | 34.4 |
| 34.63 | 78.13 | 51.84 | 16.58 | 23.12 | 22.85 | 27.03 | 27.56 | 16.01 | 25.85 | 22.3 | 39.58 | 18.16 | 13.91 | 23.06 | 22.53 | 19.02 | 21.18 | 33.58 |
| 34.63 | 78.38 | 53.75 | 14.02 | 30.86 | 25.44 | 28.99 | 21.06 | 15.65 | 29.73 | 23.24 | 42.82 | 16.77 | 15.15 | 20.29 | 24.28 | 18.13 | 21.3 | 36.8 |
| 34.63 | 78.63 | 33.98 | 12.42 | 30.4 | 25.65 | 25.37 | 20.57 | 12.85 | 21.54 | 21.7 | 33.93 | 13.84 | 15.85 | 17.34 | 20.87 | 18.83 | 18.71 | 30.73 |
| 34.63 | 78.88 | 16.92 | 11.84 | 17.11 | 11.18 | 15 | 17.86 | 11.04 | 16.18 | 12.65 | 14.33 | 11.09 | 15.39 | 12.97 | 14.51 | 22.69 | 12.78 | 13.02 |
| 34.63 | 79.13 | 13.5 | 12.26 | 15.05 | 10.53 | 14.5 | 14.12 | 9.69 | 14.12 | 12.64 | 11.94 | 10.48 | 12.78 | 11.54 | 12.8 | 20.9 | 11.91 | 11.91 |
| 34.63 | 79.38 | 12.99 | 12.25 | 14.67 | 10.62 | 14.74 | 13.9 | 9.71 | 13.92 | 13.22 | 11.91 | 10.45 | 11.24 | 11.69 | 13.16 | 21.12 | 12.18 | 11.61 |
| 34.63 | 79.63 | 13.39 | 12.18 | 15.58 | 10.89 | 15.47 | 14.76 | 10.08 | 14.67 | 14.22 | 12.7 | 10.75 | 10.43 | 12.52 | 14.3 | 22.8 | 12.94 | 11.58 |
| 34.38 | 73.63 | 17.18 | 9.89 | 12.3 | 13.82 | 13.83 | 12.75 | 15.59 | 13.72 | 11.23 | 12.61 | 15.29 | 10.71 | 13.13 | 12.57 | 15.89 | 10.98 | 11.6 |
| 34.38 | 73.88 | 16.45 | 10.2 | 11.6 | 11.81 | 12.48 | 11.95 | 13.74 | 12.6 | 10.73 | 12.35 | 14.77 | 10.73 | 13.64 | 11.86 | 14.28 | 10.75 | 12.86 |
| 34.38 | 74.13 | 15.87 | 12.41 | 13.45 | 12.96 | 12.67 | 12.69 | 12.34 | 12.47 | 13.43 | 13.45 | 16.38 | 12.79 | 17.36 | 13.06 | 14.26 | 12.67 | 17.16 |
| 34.38 | 74.38 | 14.93 | 12.46 | 13.83 | 13.09 | 13.96 | 12.72 | 11.53 | 13.18 | 13.68 | 12.72 | 15.79 | 13.68 | 19.1 | 13.37 | 14.34 | 13.8 | 16.12 |
| 34.38 | 74.63 | 14.57 | 11.58 | 13.07 | 12.46 | 14.77 | 12.46 | 11.52 | 13.34 | 12.71 | 11.51 | 14.26 | 12.28 | 19.31 | 12.79 | 14.54 | 13.73 | 14.14 |
| 34.38 | 74.88 | 13.53 | 10.77 | 12.32 | 11.49 | 14.3 | 11.93 | 11.25 | 12.27 | 11.74 | 10.51 | 12.62 | 10.99 | 17.83 | 12.07 | 12.8 | 12.76 | 13.18 |
| 34.38 | 75.13 | 11.91 | 10.23 | 11.63 | 11.08 | 12.62 | 11.31 | 10.81 | 11.08 | 11.12 | 10.39 | 12.07 | 10.68 | 15.16 | 11.27 | 10.89 | 11.47 | 11.82 |
| 34.38 | 75.38 | 12.12 | 10.39 | 11.84 | 11.67 | 12.38 | 11.51 | 11.2 | 11.23 | 11.5 | 10.87 | 12.54 | 10.98 | 14.85 | 11.45 | 10.92 | 11.36 | 11.81 |
| 34.38 | 75.63 | 14.8 | 10.81 | 12.96 | 13.22 | 13.62 | 12.36 | 12.96 | 11.99 | 12.9 | 11.64 | 14.11 | 11.48 | 17.48 | 12.53 | 12.49 | 12.34 | 13.34 |
| 34.38 | 75.88 | 28.38 | 12.1 | 15.34 | 15.54 | 15.61 | 14.4 | 20.11 | 13.38 | 14.67 | 13.37 | 17.04 | 12.62 | 24.34 | 15.46 | 19.06 | 15.48 | 16.9 |
| 34.38 | 76.13 | 42.46 | 14.32 | 17.47 | 17.81 | 17.24 | 18.26 | 23.75 | 15.58 | 16.98 | 16.29 | 18.3 | 13.51 | 32.33 | 20.96 | 22.08 | 18.78 | 19.87 |
| 34.38 | 76.38 | 46.24 | 17.07 | 18.74 | 19.44 | 18.65 | 22.31 | 26.05 | 17.6 | 20.2 | 21.88 | 20.24 | 15.1 | 39.99 | 25.02 | 23.58 | 20.11 | 21.44 |
| 34.38 | 76.63 | 44.86 | 19.12 | 18.97 | 20.64 | 19.15 | 26.31 | 25.97 | 16.41 | 22.22 | 24.68 | 21.23 | 16.72 | 41.65 | 26.6 | 24.16 | 20.31 | 22.84 |
| 34.38 | 76.88 | 34.45 | 21.91 | 19.36 | 21.04 | 20.35 | 34.79 | 22.68 | 15.05 | 22.96 | 27.83 | 22.48 | 22.68 | 40.25 | 28.1 | 27.87 | 20.77 | 26.37 |
| 34.38 | 77.13 | 29.04 | 20.77 | 19.25 | 21.02 | 22.81 | 34.29 | 18.53 | 15.09 | 20.58 | 26.21 | 26.6 | 22.94 | 36.41 | 28.29 | 28.36 | 21.97 | 32.17 |
| 34.38 | 77.38 | 47.26 | 15.96 | 20.25 | 21.96 | 25.07 | 26.63 | 15.95 | 20.77 | 20.41 | 27.09 | 22 | 13.55 | 26.18 | 22.69 | 22.85 | 23.02 | 37.82 |
| 34.38 | 77.63 | 43.58 | 12.94 | 26.97 | 24.06 | 26.37 | 22.15 | 15.34 | 35.86 | 22.21 | 41.04 | 18.97 | 15.53 | 20.97 | 27 | 18.96 | 23.92 | 38.34 |
| 34.38 | 77.88 | 50.68 | 12.61 | 32.78 | 30.2 | 28.53 | 20.83 | 16.53 | 48.62 | 23.89 | 39.5 | 18.35 | 18.13 | 19.33 | 33.57 | 16.73 | 23.32 | 33.33 |
| 34.38 | 78.13 | 50.42 | 14.61 | 36.44 | 36.42 | 28.86 | 19.87 | 18.43 | 54.53 | 26.06 | 39.44 | 19.17 | 19.63 | 18.45 | 38.08 | 16.65 | 21.82 | 35.02 |
| 34.38 | 78.38 | 50.06 | 17.2 | 35.93 | 34.56 | 29.39 | 20.97 | 20.45 | 58.94 | 27.12 | 38.87 | 18.69 | 20.35 | 17.58 | 36.12 | 17.28 | 21.31 | 35.14 |
| 34.38 | 78.63 | 40.24 | 17.04 | 33.1 | 34.65 | 28.78 | 21.49 | 17.77 | 28.74 | 24.7 | 38.59 | 17.24 | 20.56 | 16.17 | 30.5 | 17.26 | 19.97 | 34.23 |
| 34.38 | 78.88 | 22.74 | 13.79 | 24.26 | 13.81 | 15.53 | 22.95 | 12.46 | 20.67 | 14.13 | 28.59 | 13.14 | 19.3 | 13.75 | 20.92 | 24.04 | 13.41 | 17.87 |
| 34.38 | 79.13 | 17.28 | 14.28 | 18.92 | 10.49 | 16.32 | 18.92 | 11.45 | 17.15 | 11.96 | 15.32 | 11.74 | 16.42 | 12.11 | 15.73 | 25.37 | 12.84 | 14.57 |
| 34.38 | 79.38 | 16.63 | 15 | 18.81 | 10.51 | 17.84 | 18.02 | 10.8 | 16.58 | 13.42 | 14.06 | 11.17 | 13.57 | 11.92 | 14.82 | 25.27 | 12.55 | 14.8 |
| 34.13 | 73.63 | 16.82 | 9.58 | 11.97 | 12.79 | 13.77 | 12.23 | 13.15 | 13.09 | 10.41 | 12.56 | 14.15 | 10.55 | 12.4 | 12.74 | 14.98 | 10.65 | 11.3 |
| 34.13 | 73.88 | 16.16 | 9.94 | 11.56 | 11.84 | 12.51 | 11.57 | 12.2 | 12.52 | 10.34 | 12.41 | 14.29 | 10.9 | 12.73 | 11.75 | 13.85 | 10.48 | 12.45 |
| 34.13 | 74.13 | 15.54 | 10.71 | 11.93 | 12.42 | 12.43 | 11.48 | 11.39 | 12.27 | 11.69 | 12.45 | 15.18 | 12.11 | 14.37 | 11.48 | 13.03 | 11.3 | 14.95 |
| 34.13 | 74.38 | 15.13 | 10.73 | 12.15 | 12.75 | 13.84 | 11.65 | 11.18 | 12.47 | 12.5 | 11.81 | 14.92 | 12.17 | 16.66 | 11.94 | 13.8 | 12.51 | 15.41 |
| 34.13 | 74.63 | 18.32 | 10.99 | 12.65 | 13.05 | 15.71 | 12.39 | 12.67 | 13.45 | 13.76 | 11.71 | 14.14 | 11.56 | 19.82 | 13.14 | 16.61 | 13.76 | 16.15 |
| 34.13 | 74.88 | 17.91 | 10.71 | 12.72 | 12.27 | 16.26 | 12.31 | 13.15 | 13.61 | 13.47 | 10.69 | 12.3 | 10.56 | 20.04 | 13.48 | 16 | 13.5 | 16.21 |

| Lattitude | Longitude | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Table date from the year 1971 to 1987 Continued* | | | | | | | | | | | | | | | | | | |
| 34.13 | 75.13 | 14.7 | 9.96 | 12.06 | 11.24 | 14.22 | 11.58 | 12.26 | 11.78 | 12.14 | 10.12 | 12.41 | 10.41 | 17.59 | 11.97 | 12.1 | 12.04 | 13.91 |
| 34.13 | 75.38 | 13.36 | 10.02 | 12.07 | 11.59 | 13.31 | 11.62 | 11.97 | 11.62 | 12.16 | 10.67 | 13.14 | 10.8 | 16.17 | 11.74 | 11.08 | 11.3 | 12.87 |
| 34.13 | 75.63 | 17 | 10.39 | 13.09 | 13.08 | 14.17 | 12.32 | 14.12 | 12.73 | 13.48 | 11.7 | 14.96 | 11.54 | 18.27 | 12.96 | 12.57 | 12.06 | 14.26 |
| 34.13 | 75.88 | 31.15 | 11.22 | 16.16 | 16.77 | 15.99 | 14.31 | 20.58 | 15.7 | 15.47 | 14.08 | 17.84 | 13.05 | 25.36 | 17.28 | 18.47 | 15.71 | 17.9 |
| 34.13 | 76.13 | 42.31 | 12.13 | 19.44 | 21.74 | 18.16 | 17.13 | 22.95 | 21.73 | 18.24 | 18.96 | 19.35 | 14.09 | 34.36 | 23.6 | 20.61 | 19.77 | 19.62 |
| 34.13 | 76.38 | 45.21 | 13.26 | 21.87 | 26.12 | 20.41 | 22.12 | 23.87 | 28.13 | 21.66 | 29.9 | 20.86 | 14.38 | 41.18 | 26.19 | 23 | 22.32 | 20.18 |
| 34.13 | 76.63 | 47.28 | 13.38 | 24.42 | 28.52 | 22.34 | 26.07 | 23.6 | 31.43 | 25.51 | 40.03 | 21.72 | 15.1 | 46.39 | 24.99 | 26.42 | 25.66 | 20.55 |
| 34.13 | 76.88 | 46.53 | 12.44 | 24.62 | 27.2 | 19.33 | 23.34 | 18.99 | 33.77 | 30.3 | 26.76 | 18.69 | 14.26 | 38.75 | 24.27 | 24.19 | 29.19 | 24.52 |
| 34.13 | 77.13 | 33.62 | 12.31 | 25.68 | 25.38 | 23.16 | 21.41 | 15.35 | 40.56 | 25.26 | 37.01 | 18.72 | 16.6 | 24.22 | 32.05 | 22.17 | 24.89 | 44.91 |
| 34.13 | 77.38 | 33.01 | 13.35 | 31.78 | 29.7 | 25.75 | 21.54 | 15.67 | 55.21 | 23.98 | 38.72 | 21.32 | 19.22 | 19.43 | 37.22 | 19.03 | 24.03 | 44.79 |
| 34.13 | 77.63 | 33.33 | 15.28 | 34.5 | 36.12 | 26.28 | 23.38 | 17.5 | 64.4 | 25.73 | 37.98 | 22.14 | 21.22 | 18.65 | 41.7 | 16.05 | 23.84 | 43.24 |
| 34.13 | 77.88 | 48.26 | 16.94 | 36.11 | 35.11 | 27.01 | 24.51 | 20.31 | 60.37 | 27.62 | 38.18 | 22.31 | 22.28 | 18.49 | 42.72 | 15.09 | 22.2 | 36.93 |
| 34.13 | 78.13 | 54.45 | 17.33 | 39.1 | 34.75 | 27.97 | 24.44 | 23.45 | 57.03 | 28.87 | 39.27 | 20.33 | 22.67 | 18.42 | 41.88 | 15.6 | 20.81 | 33.65 |
| 34.13 | 78.38 | 71.28 | 17.25 | 39.37 | 38.05 | 31.8 | 27.04 | 24.29 | 46.33 | 28.73 | 39.29 | 19.22 | 22.65 | 17.93 | 40.88 | 15.78 | 20.81 | 28.42 |
| 34.13 | 78.63 | 50.04 | 17.15 | 36.08 | 41.11 | 32.03 | 26.92 | 20.57 | 29.71 | 26.25 | 41.57 | 17.44 | 22.07 | 16.43 | 34.29 | 15.72 | 19.57 | 25.81 |
| 34.13 | 78.88 | 22.79 | 14.49 | 25.73 | 14.42 | 16.03 | 24.89 | 13.23 | 20.93 | 15.84 | 40.56 | 13.44 | 19.89 | 14.06 | 23.66 | 22.56 | 13.19 | 19.66 |
| 34.13 | 79.13 | 18.82 | 15.38 | 21.51 | 11.63 | 18.16 | 22.56 | 12.02 | 19.14 | 12.38 | 19.89 | 11.88 | 17.2 | 12.58 | 17.65 | 27.39 | 12.73 | 15.23 |
| 34.13 | 79.38 | 19.55 | 17.18 | 23.5 | 11.81 | 21.81 | 22.52 | 12.47 | 19.16 | 13.63 | 17.56 | 11.7 | 14.96 | 12.82 | 16.78 | 28.66 | 13.07 | 16.48 |
| 33.88 | 73.63 | 17.41 | 9.91 | 13.13 | 13.16 | 14.83 | 13.33 | 12.65 | 13.68 | 10.92 | 12.38 | 14.19 | 11.08 | 13.03 | 14.2 | 15.36 | 11.04 | 11.58 |
| 33.88 | 73.88 | 16.51 | 10 | 12.69 | 12.5 | 14.16 | 13.16 | 12.07 | 13.74 | 11.05 | 11.87 | 14.76 | 10.84 | 12.84 | 13.78 | 15.11 | 10.38 | 11.4 |
| 33.88 | 74.13 | 15.36 | 10.31 | 12.69 | 12.03 | 14.08 | 13.18 | 11.72 | 13.82 | 11.19 | 11.21 | 14.76 | 10.64 | 12.77 | 13.52 | 14.39 | 10.2 | 11.23 |
| 33.88 | 74.38 | 15.2 | 10.04 | 12.4 | 11.45 | 14.5 | 12.78 | 11.64 | 13.3 | 10.99 | 10.54 | 14.03 | 10.33 | 13.72 | 12.53 | 13.49 | 10.78 | 12.32 |
| 33.88 | 74.63 | 18.02 | 10.18 | 12.72 | 13.05 | 15.74 | 12.6 | 13.16 | 13.08 | 13.89 | 11.53 | 14.28 | 10.67 | 18.75 | 13.15 | 15.6 | 13.31 | 16.91 |
| 33.88 | 74.88 | 22.16 | 10.63 | 13.66 | 14.3 | 16.68 | 12.88 | 14.71 | 13.85 | 15.65 | 12.3 | 14.18 | 10.68 | 22.81 | 15.01 | 16.73 | 14.17 | 18.05 |
| 33.88 | 75.13 | 23.07 | 10.48 | 14.44 | 14.27 | 16.62 | 12.78 | 15.09 | 14.1 | 15.43 | 11.97 | 14.31 | 10.55 | 22.8 | 15.11 | 15.8 | 13.92 | 17.57 |
| 33.88 | 75.38 | 18.93 | 10.09 | 14.07 | 13.36 | 15.56 | 12.42 | 15.18 | 13.73 | 14.29 | 11.43 | 14.58 | 10.68 | 20.2 | 13.25 | 14.33 | 12.71 | 15.63 |
| 33.88 | 75.63 | 19.55 | 10.25 | 14.47 | 14.04 | 15.51 | 12.78 | 15.88 | 14.25 | 14.53 | 12.15 | 15.57 | 11.28 | 20.37 | 13.38 | 14.5 | 12.67 | 15.7 |
| 33.88 | 75.88 | 26.45 | 10.85 | 16.85 | 17.2 | 17.06 | 13.99 | 17.81 | 16.74 | 16.06 | 14.48 | 17.48 | 12.34 | 24.06 | 16.26 | 16.23 | 15.17 | 18.06 |
| 33.88 | 76.13 | 36.34 | 11.74 | 19.99 | 22.68 | 18.94 | 15.91 | 19.44 | 19.82 | 17.87 | 18.04 | 19.35 | 13.37 | 29.28 | 20.76 | 17.73 | 17.68 | 19.14 |
| 33.88 | 76.38 | 44.81 | 12.96 | 23 | 26.9 | 21.02 | 18.45 | 20.93 | 21.97 | 19.59 | 22.29 | 20.86 | 14.11 | 34.96 | 23.23 | 19.48 | 21.4 | 19.76 |
| 33.88 | 76.63 | 62.91 | 14.15 | 27.01 | 31.02 | 20.58 | 20.53 | 20.53 | 30.58 | 23.62 | 29.39 | 21.44 | 14.8 | 39.97 | 25.95 | 24.39 | 25.95 | 22.85 |
| 33.88 | 76.88 | 45.15 | 13.74 | 28.3 | 29.29 | 19.12 | 22.59 | 16.63 | 44.81 | 28.51 | 25.76 | 15.87 | 16.33 | 30.88 | 33.15 | 22.04 | 30.1 | 32.73 |
| 33.88 | 77.13 | 34.74 | 13.69 | 30.84 | 29.99 | 24 | 26.34 | 16.69 | 48.97 | 24.8 | 35.68 | 25.69 | 20.26 | 21 | 40.61 | 21.56 | 25.19 | 46.51 |
| 33.88 | 77.38 | 30.76 | 15.36 | 33.77 | 36.03 | 25 | 25.54 | 18.02 | 70.51 | 24.98 | 37.99 | 23.9 | 22.17 | 18.67 | 41.53 | 16.47 | 23.76 | 43.99 |
| 33.88 | 77.63 | 47.62 | 17.05 | 37.29 | 34.94 | 26.04 | 26.54 | 19.81 | 60.67 | 26.7 | 40.15 | 21.71 | 22.99 | 18.17 | 42.78 | 15.04 | 20.57 | 41.15 |
| 33.88 | 77.88 | 50.54 | 17.43 | 41.85 | 34.98 | 27.18 | 25.68 | 20.87 | 51.13 | 26.55 | 41.51 | 20.52 | 23.12 | 18.11 | 43.23 | 15.34 | 19.39 | 33.5 |
| 33.88 | 78.13 | 50.23 | 17.44 | 44.84 | 37.55 | 28.2 | 24.58 | 23.59 | 47.17 | 27.58 | 41.16 | 19.05 | 23.38 | 18.36 | 43.65 | 15.66 | 19.24 | 30.89 |
| 33.88 | 78.38 | 50.52 | 17.26 | 40.83 | 50 | 38.84 | 27.95 | 25.96 | 39.1 | 28.87 | 40.84 | 18.44 | 22.98 | 18.09 | 41.63 | 15.74 | 20.2 | 26.2 |
| 33.88 | 78.63 | 70.8 | 17.27 | 38.45 | 88.76 | 37.11 | 30.15 | 22.14 | 28.75 | 27.43 | 43.83 | 17.62 | 22.12 | 16.45 | 34.56 | 15.66 | 19.23 | 24.62 |
| 33.88 | 78.88 | 23.65 | 16.21 | 28.49 | 17.37 | 19.23 | 27.36 | 13.29 | 21.14 | 15.88 | 37.58 | 13.3 | 19.95 | 13.93 | 22.47 | 23.52 | 13.04 | 19.06 |
| 33.63 | 73.63 | 18.59 | 11.4 | 15.65 | 14.96 | 17.16 | 15.66 | 14 | 15.81 | 12.69 | 12.42 | 15.64 | 12.05 | 14.74 | 17.2 | 18.09 | 11.45 | 12.64 |
| 33.63 | 73.88 | 17.94 | 13.13 | 15.95 | 14.75 | 17.42 | 16.32 | 13.33 | 17.06 | 13.8 | 11.8 | 16.52 | 11.53 | 14.77 | 18.64 | 18.38 | 11.27 | 12.23 |
| 33.63 | 74.13 | 17.45 | 13.83 | 15.99 | 14.65 | 17.21 | 16.49 | 13.48 | 17.22 | 13.71 | 11.56 | 16 | 11.23 | 14.56 | 18.53 | 17.58 | 11.24 | 11.86 |
| 33.63 | 74.38 | 17.54 | 12.9 | 15.38 | 14.14 | 17.08 | 16.16 | 13.62 | 16.32 | 12.03 | 11.54 | 14.82 | 10.68 | 14.2 | 16.37 | 16.49 | 11.4 | 11.76 |
| 33.63 | 74.63 | 18.09 | 11.57 | 14.79 | 13.34 | 17.28 | 15.28 | 13.51 | 14.71 | 11.2 | 11.78 | 14.24 | 10.08 | 15.34 | 13.62 | 15.66 | 11.88 | 12.27 |
| 33.63 | 74.88 | 19.25 | 10.85 | 14.62 | 12.79 | 17.17 | 13.84 | 13.51 | 13.6 | 12.42 | 11.92 | 14.25 | 9.92 | 18.05 | 12.65 | 15.07 | 12.4 | 13.3 |
| 33.63 | 75.13 | 20.4 | 10.5 | 15.23 | 13.61 | 17.04 | 13.08 | 14.37 | 14.82 | 14.59 | 12.15 | 15.21 | 10.61 | 20.46 | 13.23 | 14.58 | 13.4 | 15.27 |
| 33.63 | 75.38 | 20.8 | 10.46 | 16.27 | 15.37 | 17.4 | 13.28 | 15.02 | 16.54 | 15.5 | 12.74 | 16.28 | 11.45 | 21.42 | 13.7 | 14.54 | 14.28 | 17.01 |
| 33.63 | 75.63 | 21.5 | 10.52 | 16.97 | 16.33 | 17.78 | 13.89 | 15.45 | 16.92 | 15.96 | 13.74 | 16.78 | 11.71 | 22.33 | 14.41 | 14.58 | 14.57 | 17.63 |
| 33.63 | 75.88 | 24.65 | 10.84 | 18.17 | 16.93 | 18.56 | 15.08 | 15.75 | 16.44 | 16.69 | 15.11 | 17.54 | 12.33 | 23.67 | 15.66 | 15.15 | 15.15 | 18.32 |
| 33.63 | 76.13 | 28.11 | 11.21 | 19.16 | 17.89 | 19.2 | 16.35 | 15.68 | 16.31 | 17.19 | 15.92 | 18.29 | 13.03 | 25.22 | 16.87 | 15.93 | 15.97 | 18.97 |
| 33.63 | 76.38 | 28.73 | 11.17 | 19.66 | 19.01 | 18.04 | 16.31 | 14.82 | 16.39 | 18.09 | 16.46 | 17.95 | 13.88 | 25.79 | 17.4 | 17.37 | 16.69 | 19.7 |

| Lattitude | Longitude | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Table date from the year 1971 to 1987 Continued* | | | | | | | | | | | | | | | | | | |
| 33.63 | 76.63 | 31.36 | 11.07 | 20.02 | 20.41 | 16.59 | 16.46 | 13.16 | 21.16 | 19.77 | 16.61 | 14.25 | 15.52 | 22.17 | 22.85 | 18.07 | 18.22 | 23.12 |
| 33.63 | 76.88 | 34.1 | 12.1 | 23.66 | 25.13 | 21.51 | 23.2 | 14.09 | 34.72 | 22.24 | 29.68 | 15.08 | 18.72 | 18.57 | 37.29 | 19.69 | 22.81 | 30.53 |
| 33.63 | 77.13 | 32.41 | 13.55 | 30.21 | 30.21 | 23.69 | 25.02 | 16.49 | 52.57 | 22.81 | 34.98 | 21.91 | 22.3 | 17.53 | 40.53 | 16.71 | 23.95 | 40.69 |
| 33.63 | 77.38 | 30.82 | 15.4 | 33.78 | 35.63 | 24.89 | 25.26 | 17.58 | 56.79 | 24.24 | 37.38 | 19.93 | 22.94 | 17.2 | 42.38 | 14.23 | 21.07 | 40.46 |
| 33.63 | 77.63 | 44.82 | 17.19 | 37.29 | 34.68 | 25.9 | 25.92 | 18.74 | 50.49 | 26.19 | 39.58 | 18.98 | 22.99 | 17.27 | 42.97 | 14.51 | 19.43 | 33.23 |
| 33.63 | 77.88 | 47.75 | 17.53 | 41.89 | 35.76 | 27.09 | 24.67 | 19.65 | 45.77 | 26.3 | 41.02 | 18.68 | 23.22 | 17.6 | 42.88 | 15.34 | 18.28 | 31.2 |
| 33.63 | 78.13 | 50 | 17.58 | 47.52 | 45.73 | 28.11 | 23.67 | 21.76 | 43.65 | 26.72 | 41.33 | 17.87 | 23.02 | 18.19 | 43 | 15.98 | 17.94 | 30.55 |
| 33.63 | 78.38 | 53.69 | 17.34 | 40.26 | 100 | 43.01 | 30.84 | 27.88 | 37.61 | 28.84 | 43.02 | 18.18 | 22.72 | 17.85 | 41.11 | 16.34 | 19.15 | 25.85 |
| 33.63 | 78.63 | 94.3 | 17.85 | 53.05 | 0 | 54 | 33.76 | 25.09 | 28.5 | 27.71 | 46.91 | 18.12 | 21.91 | 16.28 | 34.48 | 15.96 | 18.6 | 23.95 |
| 33.63 | 78.88 | 25.65 | 20.06 | 34.04 | 28.35 | 26.71 | 32.28 | 13.7 | 22.07 | 16.08 | 35.99 | 13.15 | 19.93 | 13.91 | 21.24 | 25.14 | 12.93 | 18.55 |
| 33.38 | 73.63 | 20.4 | 13.14 | 18.85 | 17.48 | 19.42 | 18.74 | 16.59 | 18.74 | 14.74 | 13.05 | 17.84 | 13.62 | 16.04 | 20.48 | 21.98 | 11.83 | 14.92 |
| 33.38 | 73.88 | 19.74 | 15.27 | 18.87 | 16.93 | 19.48 | 19.14 | 15.06 | 19.79 | 15.62 | 12.62 | 18.43 | 12.67 | 15.9 | 22.27 | 21.23 | 11.91 | 14.32 |
| 33.38 | 74.13 | 19.31 | 15.53 | 18.73 | 16.75 | 19.25 | 19.21 | 14.91 | 19.62 | 15.28 | 12.63 | 17.43 | 12.05 | 15.55 | 21.41 | 19.87 | 12.24 | 13.7 |
| 33.38 | 74.38 | 19.86 | 14.87 | 18.57 | 16.82 | 19.38 | 19.68 | 15.47 | 18.87 | 13.6 | 13.47 | 16.29 | 11.64 | 15.17 | 19.03 | 18.86 | 13.43 | 13.4 |
| 33.38 | 74.63 | 21.32 | 14.3 | 18.54 | 16.74 | 20.05 | 20.05 | 16.3 | 18.03 | 12.56 | 14.88 | 16.35 | 11.97 | 15.54 | 16.92 | 19.1 | 14.73 | 13.13 |
| 33.38 | 74.88 | 19.97 | 12.51 | 17.27 | 14.72 | 19.3 | 18.05 | 15.02 | 16.01 | 11.44 | 13.66 | 15.38 | 11.01 | 15.37 | 13.77 | 17.34 | 13.8 | 11.77 |
| 33.38 | 75.13 | 16.68 | 10.58 | 16.07 | 12.88 | 17.96 | 14.31 | 13.05 | 14.74 | 11.85 | 11.59 | 14.79 | 10.27 | 15.88 | 11.1 | 13.48 | 12.46 | 12.24 |
| 33.38 | 75.38 | 18.41 | 10.56 | 16.77 | 14.63 | 18.03 | 13.62 | 13.64 | 15.8 | 14.04 | 12.35 | 16.14 | 11.55 | 18.69 | 12.06 | 13.48 | 13.16 | 15.94 |
| 33.38 | 75.63 | 21.89 | 11.01 | 17.78 | 16.74 | 18.53 | 14.74 | 14.46 | 15.45 | 16.15 | 14.11 | 17.36 | 12.55 | 21.71 | 13.9 | 14.4 | 14.68 | 18.04 |
| 33.38 | 75.88 | 23.16 | 11.76 | 18.01 | 18.03 | 18.54 | 16.13 | 14.1 | 15.39 | 17.42 | 15.4 | 17.93 | 13.7 | 23.12 | 15.12 | 15.74 | 15.37 | 19.3 |
| 33.38 | 76.13 | 21.23 | 12.95 | 17.02 | 17.39 | 17.57 | 16.82 | 13.32 | 15.48 | 18.62 | 15.16 | 17.79 | 14.76 | 22.47 | 14.65 | 16.08 | 14.99 | 19.18 |
| 33.38 | 76.38 | 20.45 | 12.16 | 15.87 | 16.1 | 15.82 | 16.72 | 12.77 | 13.64 | 20.29 | 15.42 | 17.09 | 16.86 | 19.48 | 15.64 | 15.99 | 14.57 | 18.17 |
| 33.38 | 76.63 | 19.55 | 10.61 | 16.18 | 15.75 | 16.75 | 15.97 | 12.33 | 13.5 | 19.42 | 15.03 | 14.36 | 17.47 | 16.2 | 21.57 | 15.5 | 15.51 | 19.51 |
| 33.38 | 76.88 | 19.74 | 10.63 | 18.71 | 16.98 | 18.74 | 19.25 | 13.03 | 17.6 | 17.19 | 20.73 | 13.35 | 18.64 | 14.42 | 27.2 | 14.63 | 17.04 | 24.45 |
| 33.38 | 77.13 | 19.94 | 11.39 | 21.72 | 20 | 20.04 | 21.44 | 13.92 | 23.04 | 17.67 | 27.63 | 13.61 | 20.12 | 14.49 | 30.68 | 13.55 | 17.21 | 24.75 |
| 33.38 | 77.38 | 20.22 | 12.24 | 23.38 | 26.43 | 20.82 | 21.22 | 14.08 | 24 | 18.51 | 29.57 | 13.64 | 20.59 | 14.44 | 31.18 | 13.13 | 16.59 | 24.24 |
| 33.38 | 77.63 | 25.22 | 14.33 | 26.55 | 34.7 | 22.28 | 22.51 | 14.37 | 25.76 | 20.87 | 31.95 | 14.13 | 21.11 | 14.81 | 32.95 | 13.39 | 16.14 | 26.22 |
| 33.38 | 77.88 | 30.17 | 17.65 | 34.15 | 34.55 | 24.78 | 23.63 | 15.68 | 31.26 | 25.1 | 37.07 | 15.25 | 21.65 | 15.85 | 37.66 | 14.35 | 16.22 | 27.92 |
| 33.38 | 78.13 | 39.84 | 17.83 | 43.34 | 50.79 | 27.52 | 22.48 | 18.87 | 39.14 | 25.41 | 40.85 | 16.45 | 21.91 | 17.12 | 41.68 | 15.8 | 16.63 | 29.77 |
| 33.38 | 78.38 | 53.67 | 17.61 | 40.95 | 100 | 52.64 | 32.92 | 28.65 | 37.32 | 28.62 | 44.44 | 17.83 | 21.93 | 17.29 | 41.21 | 16.64 | 18.13 | 26.32 |
| 33.38 | 78.63 | 91.04 | 19.49 | 54.65 | 0 | 62.02 | 33.69 | 25.83 | 27.7 | 27.55 | 49.13 | 18.32 | 21.8 | 16.08 | 34.59 | 16.33 | 18.2 | 24.31 |
| 33.38 | 78.88 | 28.88 | 25.94 | 42.88 | 37.71 | 42.21 | 42.99 | 15.57 | 23.86 | 15.72 | 36.98 | 12.8 | 20.09 | 14.36 | 20.41 | 28.03 | 12.92 | 19.25 |
| 33.13 | 73.88 | 20.69 | 15.84 | 23.16 | 18.87 | 20.63 | 24.55 | 18.5 | 21.56 | 16.55 | 14.15 | 19.14 | 15.2 | 16.06 | 23.27 | 22.3 | 13.54 | 18.32 |
| 33.13 | 74.13 | 20.64 | 15.84 | 23.53 | 18.62 | 20.38 | 24.49 | 17.12 | 21.2 | 16.19 | 13.93 | 18.72 | 13.92 | 15.37 | 22.34 | 20.91 | 14.56 | 17.31 |
| 33.13 | 74.38 | 21.41 | 15.62 | 23.74 | 18.91 | 20.83 | 25.16 | 17.09 | 21.2 | 15.2 | 14.83 | 18.44 | 12.85 | 15.01 | 20.72 | 20.65 | 16.68 | 15.75 |
| 33.13 | 74.63 | 23.51 | 16.05 | 23.51 | 19.31 | 22.14 | 26.04 | 17.88 | 21.54 | 14.85 | 16.51 | 18.5 | 13.21 | 15.62 | 19.87 | 21.32 | 18.88 | 15.31 |
| 33.13 | 74.88 | 22.75 | 14.82 | 21.72 | 17.63 | 22 | 24.35 | 17.05 | 20.06 | 13.37 | 15.65 | 17.41 | 12.51 | 15.15 | 17.36 | 20 | 18.2 | 13.44 |
| 33.13 | 75.13 | 18.84 | 12.2 | 18.5 | 14.53 | 20 | 18.79 | 14.43 | 16.9 | 11.51 | 12.87 | 15.67 | 10.81 | 14.03 | 13.05 | 16.08 | 15.12 | 11.21 |
| 33.13 | 75.38 | 17.35 | 11.37 | 17.02 | 13.87 | 18.69 | 15.13 | 13.37 | 14.77 | 12.3 | 12.2 | 15.67 | 11.05 | 14.92 | 11.45 | 14.26 | 13.43 | 12.28 |
| 33.13 | 75.63 | 17.93 | 12.22 | 16.34 | 15.38 | 17.87 | 14.95 | 13.05 | 12.85 | 15.5 | 13.38 | 16.38 | 12.73 | 16.82 | 11.55 | 14.54 | 12.92 | 16.17 |
| 33.13 | 75.88 | 17.26 | 14.43 | 15.08 | 16.08 | 17.37 | 15.71 | 12.95 | 12.82 | 19.78 | 14.63 | 17.75 | 14.92 | 18.56 | 12.42 | 16.26 | 12.93 | 18.12 |
| 33.13 | 76.13 | 17.05 | 14.55 | 13.88 | 14.91 | 18.2 | 16.88 | 14.12 | 13.14 | 23.05 | 15.85 | 17.78 | 16.32 | 16.33 | 13.46 | 16.02 | 12.18 | 18.35 |
| 33.13 | 76.38 | 17.28 | 13.09 | 13.21 | 14.21 | 17.39 | 17.64 | 14.66 | 12.35 | 24.29 | 17.51 | 15.59 | 18.21 | 15.16 | 15.89 | 16.62 | 12.35 | 18.26 |
| 33.13 | 76.63 | 16.29 | 11.37 | 13.78 | 14.17 | 16.56 | 16.25 | 13.39 | 11.51 | 20.49 | 16.2 | 14.7 | 18.23 | 15.26 | 20 | 14.55 | 13.17 | 18.09 |
| 33.13 | 76.88 | 15.06 | 10.45 | 15.5 | 14.49 | 17.02 | 15.45 | 12.93 | 12.33 | 16.74 | 15.26 | 13.17 | 18.45 | 14.29 | 22.68 | 12.98 | 13.88 | 17.34 |
| 33.13 | 77.13 | 15.28 | 10.31 | 16.09 | 13.98 | 16.92 | 17.16 | 12.88 | 12.83 | 15.56 | 16.35 | 11.94 | 18.44 | 13.19 | 21.9 | 12.51 | 13.73 | 16.61 |
| 33.13 | 77.38 | 15.1 | 10.43 | 16.32 | 13.86 | 16.76 | 16.93 | 12.7 | 12.64 | 15.64 | 17.14 | 11.81 | 17.79 | 12.98 | 21.69 | 12.44 | 13.61 | 16.92 |
| 33.13 | 77.63 | 15.73 | 10.79 | 17.52 | 14.49 | 16.8 | 17.45 | 12.59 | 12.8 | 16.26 | 18.24 | 12.16 | 17.75 | 13.08 | 22.45 | 12.73 | 13.7 | 18.32 |
| 33.13 | 77.88 | 18.39 | 11.82 | 20.54 | 18.96 | 17.61 | 18.85 | 12.64 | 14.11 | 16.87 | 21.84 | 12.78 | 18.26 | 13.33 | 25.75 | 13.21 | 14.14 | 20.94 |
| 33.13 | 78.13 | 21.58 | 13.54 | 24.13 | 29.77 | 19.25 | 19.9 | 12.78 | 15.58 | 17.37 | 25.97 | 13.32 | 18.07 | 13.35 | 28.89 | 13.71 | 14.49 | 22.8 |
| 33.13 | 78.38 | 21.64 | 15.54 | 25.59 | 45.98 | 22.04 | 18.51 | 13.32 | 16.85 | 17.13 | 26.14 | 14.14 | 17.13 | 13.22 | 28.62 | 14.04 | 15.38 | 22.09 |
| 33.13 | 78.63 | 22.6 | 16.21 | 27.01 | 77.65 | 32.7 | 21.27 | 13.68 | 17.8 | 16.85 | 25.84 | 14.25 | 17.05 | 13.08 | 26.65 | 14.63 | 15.5 | 20.47 |

| Lattitude | Longitude | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Table date from the year 1971 to 1987 Continued* | | | | | | | | | | | | | | | | | | |
| 33.13 | 78.88 | 27.5 | 23.88 | 40.57 | 34.37 | 46.7 | 36.16 | 16.55 | 23.79 | 14.17 | 31.63 | 11.85 | 18.51 | 14.01 | 19.81 | 28.11 | 12.82 | 18.61 |
| 33.13 | 79.13 | 27.34 | 27.41 | 41.61 | 35.52 | 42.99 | 37.84 | 19.3 | 25.35 | 20.4 | 32.56 | 12.9 | 15.87 | 16.14 | 20.89 | 34.21 | 13.64 | 23.19 |
| 33.13 | 79.38 | 26.42 | 27.32 | 40.61 | 29.73 | 33.18 | 37.07 | 20.39 | 25 | 28.33 | 32.63 | 15.83 | 14.26 | 18.65 | 24.07 | 38.46 | 16.3 | 28.03 |
| 32.88 | 74.38 | 21.86 | 15.59 | 29.49 | 20.73 | 21.85 | 30.72 | 18.35 | 23.09 | 16.43 | 16.47 | 22.79 | 13.84 | 14.29 | 22.27 | 21.94 | 20.23 | 18.96 |
| 32.88 | 74.63 | 23.29 | 16.23 | 28.8 | 20.9 | 22.78 | 30.4 | 18.32 | 24.36 | 16.64 | 17.16 | 22.2 | 13.57 | 14.49 | 21.88 | 22.28 | 21.92 | 17.4 |
| 32.88 | 74.88 | 23.08 | 15.76 | 25.64 | 19.66 | 22.39 | 27.27 | 17.72 | 23.65 | 15.54 | 16.07 | 19.72 | 13.16 | 14.14 | 19.98 | 20.89 | 21.39 | 15.5 |
| 32.88 | 75.13 | 21.11 | 14.48 | 20.44 | 17.66 | 20.54 | 20.87 | 16.63 | 18.97 | 13.62 | 14.53 | 16.97 | 12.43 | 13.17 | 16.94 | 18.18 | 18.88 | 12.88 |
| 32.88 | 75.38 | 18.71 | 13.49 | 16.78 | 16.48 | 18.92 | 16.66 | 15.54 | 15.16 | 12.85 | 13.61 | 14.94 | 12.04 | 12.2 | 14.77 | 16.29 | 16.35 | 11.24 |
| 32.88 | 75.63 | 15.83 | 13.36 | 14.56 | 15.48 | 17.66 | 14.77 | 14.34 | 12.42 | 14 | 13.76 | 13.79 | 12.54 | 11.94 | 12.88 | 14.64 | 13.47 | 12.66 |
| 32.88 | 75.88 | 16.07 | 15.37 | 13.42 | 15.17 | 19.58 | 15.47 | 14.87 | 12.7 | 18.27 | 16.38 | 14.18 | 14.03 | 13.99 | 13.24 | 15.33 | 12.34 | 15.64 |
| 32.88 | 76.13 | 17.73 | 14.44 | 14.25 | 17.8 | 20.27 | 18.04 | 17.68 | 15.15 | 16.74 | 21.35 | 13.54 | 13.99 | 13.26 | 16.38 | 18.28 | 14.67 | 14.65 |
| 32.88 | 76.38 | 18.74 | 11.99 | 14.21 | 17.82 | 16.99 | 18.45 | 18.19 | 15.54 | 14.98 | 22.37 | 13.09 | 14.18 | 13.4 | 17.01 | 17.68 | 15.08 | 14.19 |
| 32.88 | 76.63 | 16.66 | 10.52 | 12.77 | 13.39 | 14.61 | 15.61 | 15.11 | 12.77 | 16.1 | 19.51 | 12.01 | 18.31 | 13.79 | 14.14 | 13.85 | 12.26 | 14.36 |
| 32.88 | 76.88 | 14.61 | 10.43 | 14.57 | 13.59 | 16.05 | 14.73 | 12.7 | 11.57 | 17.18 | 15.05 | 12.74 | 18.65 | 14.13 | 20.67 | 12.46 | 12.92 | 17.05 |
| 32.88 | 77.13 | 14.81 | 10.28 | 15.63 | 13.55 | 16.25 | 16.64 | 12.36 | 12.15 | 15.63 | 15.39 | 11.56 | 18.15 | 12.93 | 20.73 | 12.17 | 13.26 | 16.4 |
| 32.88 | 77.38 | 14.48 | 10.36 | 15.46 | 12.47 | 15.55 | 15.99 | 12.06 | 11.72 | 15.11 | 15.97 | 11.24 | 16.91 | 12.4 | 19.45 | 11.88 | 12.91 | 16.15 |
| 32.88 | 77.63 | 14.42 | 10.52 | 15.4 | 11.9 | 14.94 | 15.72 | 11.98 | 11.49 | 15.22 | 15.63 | 11.34 | 16.34 | 12.17 | 18.43 | 11.91 | 12.72 | 16.21 |
| 32.88 | 77.88 | 14.71 | 10.69 | 15.67 | 11.95 | 14.65 | 15.64 | 12.03 | 11.45 | 15.15 | 15.67 | 11.66 | 15.23 | 12.04 | 18.52 | 12.06 | 12.76 | 16.75 |
| 32.88 | 78.13 | 15.19 | 10.79 | 16.63 | 12.38 | 14.81 | 15.78 | 11.84 | 11.51 | 15.17 | 16.09 | 12.19 | 14.89 | 11.87 | 19.32 | 12.15 | 13.1 | 17.59 |
| 32.88 | 78.38 | 14.16 | 10.65 | 16.2 | 12.21 | 15.33 | 15.62 | 11.82 | 11.76 | 14.97 | 16.15 | 12.81 | 14.64 | 11.9 | 18.94 | 12.09 | 13.78 | 18.59 |
| 32.88 | 78.63 | 12.13 | 9.85 | 12.88 | 11.35 | 13.96 | 13.67 | 11.57 | 11.87 | 13.96 | 15.17 | 12.81 | 14.88 | 11.82 | 17.12 | 12.17 | 13.7 | 17.86 |
| 32.88 | 78.88 | 18.21 | 13.38 | 23.17 | 17.95 | 18.19 | 19.71 | 13.67 | 15.85 | 12.6 | 17.44 | 11.16 | 17.07 | 11.89 | 14.94 | 23.03 | 11.78 | 16.3 |
| 32.88 | 79.13 | 23.03 | 18.79 | 33.85 | 24.67 | 21.29 | 28.24 | 17.49 | 18.77 | 18.32 | 23.42 | 12.29 | 16.26 | 14.02 | 18.91 | 32.2 | 13.49 | 21.45 |
| 32.88 | 79.38 | 22.95 | 20.2 | 33.86 | 23.83 | 21.09 | 29.56 | 18.99 | 19.41 | 22.45 | 25.5 | 14.24 | 15.3 | 15.85 | 22.78 | 36.96 | 16.49 | 24.07 |
| 32.63 | 74.88 | 20.95 | 15.65 | 27.7 | 21.02 | 21.75 | 26.71 | 17.36 | 24.93 | 16.39 | 16.78 | 22.27 | 13.39 | 13.15 | 21.18 | 21.13 | 22.31 | 16.37 |
| 32.63 | 75.13 | 20.82 | 16.53 | 21.32 | 21.14 | 20.61 | 20.98 | 17.84 | 20.11 | 15.8 | 16.02 | 17.77 | 13.75 | 12.76 | 19.36 | 19.41 | 20.71 | 14.51 |
| 32.63 | 75.38 | 19.76 | 16.95 | 17.53 | 21.71 | 20.14 | 18.32 | 18.25 | 17.7 | 15.6 | 16.51 | 16.06 | 14.15 | 12.15 | 18.51 | 18.97 | 19.14 | 12.95 |
| 32.63 | 75.63 | 18.4 | 16.6 | 16.22 | 22.31 | 20.52 | 17.64 | 18.19 | 16.66 | 15.25 | 17.72 | 14.76 | 13.84 | 11.54 | 18.2 | 19.21 | 17.82 | 12.07 |
| 32.63 | 75.88 | 18.09 | 16.44 | 16.34 | 22.46 | 22.6 | 18.91 | 18.82 | 17.19 | 15.16 | 20.56 | 14.49 | 13.34 | 11.59 | 18.87 | 21.34 | 17.95 | 13.48 |
| 32.63 | 76.13 | 20.1 | 16.45 | 17.8 | 24.66 | 22.45 | 21.26 | 21.06 | 19.11 | 15.44 | 23.89 | 16.07 | 13.29 | 12.89 | 21.54 | 22.44 | 19.72 | 14.82 |
| 32.63 | 76.38 | 22.36 | 15.97 | 18.23 | 24.52 | 19.79 | 21.75 | 22.03 | 19.89 | 15.82 | 24.86 | 17.34 | 13.17 | 14.7 | 23.11 | 20.93 | 19.75 | 15.97 |
| 32.63 | 76.63 | 20.01 | 12.06 | 14.69 | 17.71 | 15.03 | 17.61 | 18.49 | 16.58 | 12.81 | 21.38 | 13.47 | 13.12 | 13.15 | 17.74 | 16.5 | 15.06 | 13.35 |
| 32.63 | 76.88 | 14.68 | 10.14 | 13.62 | 12.32 | 14.6 | 13.58 | 12.31 | 11.73 | 16.45 | 15.07 | 11.3 | 18.39 | 13.19 | 15.67 | 12.17 | 11.99 | 14.41 |
| 32.63 | 77.13 | 14.2 | 10.1 | 15 | 13.14 | 15.98 | 15.55 | 11.64 | 12.13 | 15.08 | 14.49 | 11.48 | 17.4 | 12.7 | 19.27 | 11.98 | 13.45 | 15.14 |
| 32.63 | 77.38 | 13.88 | 10.4 | 14.7 | 11.44 | 14.7 | 15.37 | 11.62 | 11.58 | 14.03 | 14.86 | 11.33 | 15.86 | 12.03 | 17.27 | 11.63 | 12.7 | 15.29 |
| 32.63 | 77.63 | 14.19 | 10.83 | 14.99 | 11.02 | 14.03 | 14.6 | 11.56 | 11.29 | 13.59 | 14.8 | 11.18 | 14.29 | 11.68 | 15.83 | 11.6 | 12.19 | 15.25 |
| 32.63 | 77.88 | 14.11 | 11.01 | 15.03 | 10.93 | 13.84 | 13.87 | 11.62 | 11.24 | 13.53 | 14.47 | 11.24 | 13.62 | 11.54 | 15.58 | 11.56 | 12.15 | 15.34 |
| 32.63 | 78.13 | 14 | 11.02 | 15.74 | 11.3 | 14.19 | 13.64 | 11.9 | 11.26 | 14.25 | 14.66 | 11.67 | 13.77 | 11.45 | 16.73 | 11.82 | 12.42 | 16.95 |
| 32.63 | 78.38 | 13.26 | 10.91 | 16.44 | 16.06 | 16.62 | 13.56 | 12.38 | 12.14 | 15.19 | 15.84 | 12.96 | 14.83 | 11.83 | 19.11 | 12.88 | 13.2 | 21.27 |
| 32.63 | 78.63 | 11.42 | 10.67 | 13.25 | 21.07 | 18.88 | 12.12 | 13.18 | 12.95 | 15.35 | 14.14 | 13.56 | 15.99 | 12.45 | 17.18 | 12.97 | 13.37 | 23.28 |
| 32.63 | 78.88 | 12.13 | 10.97 | 13.58 | 20.61 | 16.88 | 12.36 | 12.98 | 12.17 | 14.84 | 12.42 | 14.03 | 17.06 | 12.46 | 11.84 | 14.89 | 11.37 | 22.2 |
| 32.63 | 79.13 | 20.32 | 14.68 | 28.2 | 25.74 | 18.03 | 23.34 | 16.98 | 15.11 | 17.26 | 19.44 | 13.03 | 17.62 | 12.72 | 16.41 | 29.99 | 12.58 | 23.99 |
| 32.63 | 79.38 | 22 | 17.31 | 32.01 | 25.39 | 18.55 | 26.44 | 18.24 | 16.52 | 19.08 | 22.92 | 13.23 | 16.92 | 13.69 | 20.67 | 34.51 | 14.41 | 23.51 |
| 32.38 | 75.38 | 21.68 | 21.05 | 18.34 | 28.29 | 22.08 | 19.95 | 20.56 | 20.65 | 18.48 | 21.16 | 18.32 | 16.86 | 12.55 | 21.31 | 22.55 | 21.33 | 13.47 |
| 32.38 | 75.88 | 20.58 | 20.29 | 18.87 | 27.85 | 24.28 | 21 | 21.74 | 20.36 | 16.89 | 22.3 | 17.45 | 14.75 | 13.02 | 23.38 | 24.08 | 22.16 | 14.32 |
| 32.38 | 76.13 | 22.57 | 19.06 | 20.18 | 27.95 | 23.42 | 23.15 | 23.16 | 21.35 | 17.33 | 25.21 | 18.81 | 14.48 | 15.09 | 24.76 | 23.61 | 21.89 | 17.4 |
| 32.38 | 76.38 | 25.12 | 18.68 | 20.76 | 28.69 | 21.94 | 24.09 | 24.6 | 22.1 | 18.22 | 26.4 | 20.27 | 14.6 | 16.87 | 26.15 | 21.91 | 22.15 | 18.4 |
| 32.38 | 76.63 | 24.05 | 15.95 | 18.2 | 24.3 | 18.25 | 21.09 | 22.48 | 20.61 | 15.7 | 24.52 | 17.99 | 13.23 | 15.36 | 22.99 | 19.4 | 19.46 | 15.62 |
| 32.38 | 76.88 | 17.03 | 11.47 | 13.42 | 13.69 | 13.4 | 13.85 | 15 | 14.86 | 11.32 | 16.53 | 11.76 | 13.24 | 12.1 | 14.12 | 13.65 | 13.18 | 11.89 |
| 32.38 | 77.13 | 13.68 | 10.58 | 13.7 | 10.81 | 13.54 | 13.17 | 11.48 | 11.72 | 13.11 | 12.91 | 10.81 | 14.53 | 11.36 | 13.04 | 11.08 | 11.56 | 13.28 |
| 32.38 | 77.38 | 13.91 | 11.43 | 14.08 | 10.95 | 13.47 | 13.23 | 11.89 | 11.52 | 12.43 | 13.42 | 10.95 | 13.16 | 11.41 | 13.31 | 11.35 | 11.68 | 13.92 |
| 32.38 | 77.63 | 13.87 | 11.5 | 14.32 | 10.97 | 13.42 | 13.01 | 11.79 | 11.43 | 12.38 | 13.48 | 10.95 | 12.58 | 11.33 | 13.55 | 11.5 | 11.66 | 13.97 |

| Lattitude | Longitude | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Table date from the year 1971 to 1987 Continued* | | | | | | | | | | | | | | | | | | |
| 32.38 | 77.88 | 13.42 | 11.46 | 13.95 | 11.78 | 13.44 | 12.65 | 12.06 | 11.4 | 11.93 | 13.2 | 10.86 | 12.34 | 11.19 | 13.27 | 11.67 | 11.53 | 14.05 |
| 32.38 | 78.13 | 12.93 | 11.18 | 14.06 | 15.31 | 14.33 | 12.54 | 12.84 | 11.61 | 12.54 | 13.22 | 11.04 | 13.09 | 11.2 | 13.83 | 12.32 | 11.6 | 16.71 |
| 32.38 | 78.38 | 12.73 | 11.33 | 14.65 | 23.24 | 18.52 | 13.63 | 14.07 | 13.95 | 17.1 | 14.82 | 13.2 | 15.93 | 12.74 | 18.32 | 14.16 | 12.66 | 26.43 |
| 32.13 | 75.88 | 22.99 | 22.51 | 19.6 | 28.75 | 24.95 | 20.82 | 23.56 | 21.34 | 18.53 | 22.35 | 18.53 | 16.41 | 13.9 | 23.5 | 23.55 | 23.31 | 14.99 |
| 32.13 | 76.13 | 25.03 | 21.13 | 21.61 | 30.01 | 23.74 | 23.33 | 24.52 | 22.55 | 19.01 | 26.15 | 20.48 | 15.72 | 16.14 | 25.5 | 23.29 | 23.17 | 17.97 |
| 32.13 | 76.38 | 26.86 | 20.12 | 22.19 | 30.3 | 22.5 | 24.44 | 25.92 | 22.81 | 18.73 | 28.06 | 21.41 | 15.19 | 16.5 | 25.85 | 21.45 | 23.16 | 17.95 |
| 32.13 | 76.63 | 26.35 | 19.04 | 20.61 | 26.09 | 20.33 | 21.79 | 24 | 22.27 | 17.18 | 26.45 | 20.29 | 14.78 | 14.83 | 22.88 | 19.69 | 21.82 | 16 |
| 32.13 | 76.88 | 20.56 | 15.32 | 15.82 | 18.48 | 15.97 | 15.86 | 18.35 | 17.75 | 12.48 | 19.93 | 15.27 | 12.87 | 12.43 | 16.72 | 15.3 | 16.41 | 13 |
| 32.13 | 77.13 | 14.95 | 12.35 | 13.92 | 12.07 | 13.65 | 13.07 | 13.56 | 12.82 | 12.64 | 13.63 | 11.93 | 12.33 | 11.46 | 13.28 | 11.88 | 11.32 | 13.14 |
| 32.13 | 77.38 | 14.77 | 12.7 | 14.28 | 12.17 | 13.54 | 13.1 | 13.44 | 12.4 | 12.39 | 13.48 | 11.15 | 11.68 | 11.53 | 13.94 | 12.23 | 11.25 | 13.02 |
| 32.13 | 77.63 | 14.63 | 13.5 | 13.48 | 14.37 | 13.73 | 13.34 | 14.48 | 12.91 | 10.96 | 14.14 | 11.03 | 11.02 | 12.02 | 13.87 | 13.41 | 11.73 | 12.12 |
| 32.13 | 77.88 | 14.67 | 13.41 | 13.86 | 17.65 | 13.97 | 14.18 | 15.14 | 12.67 | 10.86 | 14.14 | 10.84 | 11.17 | 11.97 | 13.17 | 14 | 11.95 | 13.05 |
| 32.13 | 78.13 | 13.61 | 11.35 | 13.66 | 21.74 | 15.69 | 13.96 | 14.6 | 12.62 | 12.16 | 12.92 | 10.69 | 13.54 | 11.61 | 12.24 | 13.59 | 11.5 | 17.97 |
| 32.13 | 78.38 | 13.46 | 11.58 | 14.32 | 26.06 | 19.61 | 15.67 | 15.5 | 15.49 | 18.92 | 14.13 | 13.39 | 16.75 | 13.6 | 17.89 | 14.77 | 12.61 | 26.63 |
| 31.88 | 76.13 | 24.39 | 22.9 | 21.81 | 27.37 | 23.24 | 21.93 | 23.86 | 22.88 | 19.08 | 24.78 | 21.17 | 16.89 | 17.17 | 23.5 | 23.51 | 22.26 | 17.07 |
| 31.88 | 76.38 | 25.59 | 21.84 | 22.77 | 27.52 | 21.81 | 21.69 | 24.1 | 22.74 | 17.21 | 28.01 | 22.41 | 14.61 | 15.61 | 23.92 | 20.63 | 21.62 | 15.84 |
| 31.88 | 76.63 | 25.92 | 20.73 | 21.49 | 23.85 | 20.51 | 19.99 | 22.28 | 22.01 | 16.73 | 27.27 | 21.6 | 14.3 | 13.36 | 22.11 | 19.03 | 20.98 | 15.12 |
| 31.88 | 76.88 | 23.6 | 17.98 | 17.9 | 19.71 | 17.91 | 17.14 | 19.69 | 19.09 | 14.13 | 23.52 | 19.01 | 13.39 | 11.55 | 18.81 | 18.6 | 17.94 | 13.31 |
| 31.88 | 77.13 | 18.69 | 14.71 | 13.99 | 15.31 | 15.25 | 14.02 | 16.26 | 14.58 | 11.43 | 17.29 | 14.27 | 11.23 | 11.16 | 14.54 | 15.9 | 12.15 | 11.43 |
| 31.88 | 77.38 | 16.33 | 14.24 | 13.71 | 14.56 | 14.58 | 13.81 | 15.73 | 13.79 | 11.18 | 15.41 | 12.31 | 10.69 | 11.78 | 14.55 | 14.43 | 11.48 | 11.6 |
| 31.88 | 77.63 | 17.63 | 16.1 | 16.33 | 18.3 | 15.39 | 16.54 | 17.79 | 14.94 | 13.13 | 17.28 | 12.92 | 11.39 | 14.04 | 16.61 | 16.7 | 14.01 | 13.25 |
| 31.88 | 77.88 | 17.17 | 15.23 | 17.19 | 21.49 | 15 | 17.75 | 17.85 | 13.76 | 13.1 | 16.14 | 11.84 | 11.4 | 13.25 | 14.86 | 16.46 | 13.97 | 14.28 |
| 31.88 | 78.13 | 14.4 | 11.14 | 14.61 | 24.74 | 17.3 | 15.73 | 15.4 | 13.75 | 14.08 | 13.05 | 11 | 14.79 | 12.25 | 12.58 | 14.06 | 11.87 | 19.67 |
| 31.88 | 78.38 | 13.89 | 12.01 | 14.12 | 26.07 | 20.33 | 16.96 | 15.59 | 16.7 | 20.81 | 14.24 | 13.71 | 17.39 | 14.26 | 18.64 | 15.31 | 12.98 | 26.82 |
| 31.88 | 78.63 | 14.78 | 13.16 | 13.72 | 25.86 | 21.46 | 18.68 | 15.91 | 18.15 | 22.54 | 15.07 | 14.7 | 18.11 | 15.48 | 19.91 | 16.6 | 14.08 | 29.91 |
| 31.63 | 76.13 | 22.62 | 22.89 | 19.68 | 26.78 | 23.57 | 20.99 | 22.58 | 23 | 17.29 | 23.33 | 21.17 | 17.51 | 18.33 | 23.18 | 25.85 | 20.39 | 16.29 |
| 31.63 | 76.38 | 23.32 | 22.82 | 20.56 | 26.55 | 22.55 | 20.07 | 21.65 | 22.71 | 14.98 | 26.28 | 23.28 | 13.93 | 16.38 | 24.09 | 23.04 | 18.29 | 14.68 |
| 31.63 | 76.63 | 23.65 | 21.99 | 20.26 | 23.38 | 20.45 | 20.16 | 20.48 | 21.54 | 15.57 | 28.4 | 23.31 | 12.63 | 13.38 | 23.14 | 21.02 | 17.08 | 14.03 |
| 31.63 | 76.88 | 22.08 | 18.38 | 18.56 | 21.02 | 19.22 | 20.16 | 20.2 | 19.49 | 15.25 | 25.94 | 21.2 | 12.21 | 12.28 | 20.73 | 21.79 | 16.09 | 13.14 |
| 31.63 | 77.13 | 19.43 | 14.62 | 15.38 | 17.54 | 16.85 | 16.88 | 17.75 | 16.06 | 12.9 | 20.87 | 16.52 | 11.34 | 11.69 | 16.27 | 18.31 | 13.24 | 11.97 |
| 31.63 | 77.38 | 17.52 | 14.41 | 14.29 | 15.08 | 15.59 | 15.62 | 16.68 | 14.6 | 11.65 | 17.5 | 13.5 | 10.82 | 12.05 | 14.47 | 15.5 | 12.43 | 11.89 |
| 31.63 | 77.63 | 18.15 | 16.47 | 17.35 | 17.53 | 15.72 | 18.03 | 17.87 | 15.18 | 13.82 | 17.86 | 13.24 | 11.58 | 14.28 | 16.29 | 16.94 | 14.7 | 13.41 |
| 31.63 | 77.88 | 16.74 | 14.48 | 16.87 | 20.25 | 14.47 | 17.52 | 17.25 | 13.43 | 12.85 | 15.61 | 11.61 | 11.78 | 12.83 | 14.1 | 15.86 | 13.47 | 14.06 |
| 31.63 | 78.13 | 15.2 | 11.2 | 13.24 | 23.33 | 18 | 15.99 | 14.6 | 16.23 | 18.18 | 13.23 | 11.72 | 16.27 | 12.96 | 14.29 | 13.97 | 11.76 | 21.14 |
| 31.63 | 78.38 | 16.69 | 12.71 | 13.47 | 23.49 | 20.21 | 18.85 | 14.85 | 18.5 | 21.77 | 14.71 | 13.6 | 18.02 | 15.04 | 22.27 | 16.68 | 13.42 | 28.05 |
| 31.63 | 78.63 | 18.5 | 12.98 | 13.65 | 23.4 | 20.52 | 19.25 | 14.55 | 18.21 | 20.64 | 15.6 | 13.82 | 18.21 | 15.47 | 23.6 | 16.99 | 13.82 | 29.38 |
| 31.38 | 76.63 | 22.67 | 22.65 | 18.03 | 24.05 | 18.2 | 21.34 | 19.39 | 20.17 | 14.38 | 26.67 | 22.47 | 12.15 | 13.34 | 21.16 | 20.85 | 14.67 | 14.06 |
| 31.38 | 76.88 | 20.37 | 17.3 | 17.49 | 24.48 | 17.25 | 22.87 | 18.78 | 18.63 | 14.46 | 25.39 | 20.65 | 11.38 | 12.02 | 19.19 | 18.84 | 14.89 | 13.41 |
| 31.38 | 77.13 | 18.4 | 13.45 | 15.2 | 20.14 | 16.47 | 19.59 | 18.36 | 16.47 | 13.16 | 23.37 | 17.41 | 11.42 | 11.25 | 17.27 | 17.04 | 14.09 | 12.96 |
| 31.38 | 77.38 | 17.75 | 14.02 | 13.44 | 14.97 | 15.51 | 16.66 | 17.66 | 15.06 | 11.41 | 18.96 | 14.22 | 11.07 | 11.39 | 14.95 | 15.56 | 12.32 | 12.41 |
| 31.38 | 77.63 | 16.92 | 15.14 | 14.33 | 14.48 | 14.46 | 16.71 | 16.55 | 14.39 | 11.82 | 16.59 | 13.31 | 11.41 | 12.36 | 14.68 | 15.23 | 12.6 | 11.96 |
| 31.38 | 77.88 | 15.98 | 12.97 | 13.82 | 15.82 | 13.21 | 15.07 | 15.74 | 12.85 | 11.15 | 14.43 | 11.65 | 12.12 | 11.48 | 12.77 | 14.2 | 11.4 | 12.94 |
| 31.38 | 78.13 | 17.34 | 11.42 | 12.09 | 18.39 | 16.49 | 15.61 | 14.18 | 16.86 | 16.96 | 13.04 | 11.27 | 16.36 | 12.57 | 13.15 | 14.13 | 11.08 | 20.25 |
| 31.38 | 78.38 | 19.1 | 12.59 | 12.77 | 20.01 | 18.54 | 18.96 | 13.86 | 18.22 | 19.27 | 14.35 | 12.13 | 18.02 | 14.74 | 17.01 | 16.71 | 12.77 | 27.17 |
| 31.38 | 78.63 | 18.17 | 12.27 | 12.89 | 20.31 | 17.67 | 16.93 | 14.01 | 16.87 | 16.09 | 14.39 | 11.71 | 17.61 | 14.16 | 15.37 | 16.01 | 12.3 | 27.69 |
| 31.38 | 79.13 | 13.56 | 12.12 | 11.07 | 14.9 | 13.57 | 12.29 | 13.95 | 14.49 | 13.66 | 13.99 | 11.68 | 12.93 | 11.8 | 11.61 | 11.87 | 10.89 | 12.64 |
| 31.13 | 76.63 | 29.14 | 27.63 | 22.1 | 26.15 | 20.33 | 21.17 | 20.4 | 20.95 | 16.15 | 23.34 | 21.03 | 13.29 | 14.77 | 18.54 | 20.22 | 17.62 | 14.35 |
| 31.13 | 76.88 | 24.82 | 21.34 | 20.59 | 27.43 | 17.93 | 21.58 | 20.7 | 19.69 | 15.18 | 24.43 | 20.02 | 12.75 | 12.73 | 19.01 | 18.68 | 16.37 | 13.68 |
| 31.13 | 77.13 | 19.82 | 15.73 | 16.81 | 21.43 | 15.91 | 19.3 | 20.82 | 17.91 | 13.12 | 25.32 | 18.39 | 12.11 | 11.76 | 20.07 | 17.94 | 14.68 | 13.39 |
| 31.13 | 77.38 | 17.6 | 15.34 | 14.47 | 15.94 | 15.37 | 17.11 | 19.37 | 17.11 | 11.62 | 20.8 | 14.88 | 11.42 | 11.16 | 17.15 | 16.86 | 12.39 | 12.87 |
| 31.13 | 77.63 | 15.92 | 15.07 | 13.5 | 13.56 | 13.24 | 15.81 | 16.97 | 16.21 | 10.57 | 16.04 | 13.11 | 11.7 | 10.96 | 14.14 | 14.83 | 11.1 | 11.91 |
| 31.13 | 77.88 | 15.78 | 13.94 | 13.24 | 14.02 | 12.79 | 15.13 | 16.61 | 13.92 | 10.49 | 15.13 | 12.23 | 11.81 | 10.86 | 13.1 | 14.57 | 10.79 | 12.23 |

| Lattitude | Longitude | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Table date from the year 1971 to 1987 Continued* | | | | | | | | | | | | | | | | | | |
| 31.13 | 78.13 | 17.55 | 13.81 | 13.75 | 17.56 | 13.55 | 15.71 | 17.38 | 14.62 | 12.3 | 16.23 | 12.21 | 12.42 | 11.16 | 13.81 | 15.79 | 11.28 | 13.73 |
| 31.13 | 78.38 | 18.48 | 14.3 | 14.45 | 21.55 | 13.98 | 17.01 | 18.12 | 15.68 | 15.14 | 17.53 | 13.64 | 12.65 | 11.55 | 15.07 | 16.95 | 12.34 | 15 |
| 31.13 | 78.63 | 18.34 | 14.7 | 14.43 | 23.54 | 14.16 | 17.38 | 18.5 | 16.07 | 16.96 | 18.6 | 15.16 | 12.14 | 11.66 | 16.12 | 17.21 | 13.33 | 14.9 |
| 31.13 | 78.88 | 17.42 | 14.76 | 13.77 | 21.3 | 14.28 | 16.42 | 18.6 | 15.89 | 17.07 | 19.11 | 16.44 | 11.63 | 12.04 | 16.52 | 16.31 | 13.78 | 13.63 |
| 31.13 | 79.13 | 14.93 | 14.41 | 12.47 | 16.26 | 13.64 | 14.09 | 16.92 | 14.64 | 15.21 | 17.66 | 16.44 | 12.49 | 12.78 | 14.88 | 13.74 | 12.89 | 12.67 |
| 30.88 | 76.88 | 26.99 | 24.31 | 22.52 | 28.73 | 19.75 | 21.87 | 22.58 | 21.94 | 15.58 | 22.5 | 18.97 | 14.66 | 15.41 | 20.93 | 21.79 | 18.97 | 14.24 |
| 30.88 | 77.13 | 21.99 | 18.92 | 19.66 | 21.5 | 16.83 | 19.69 | 22.3 | 19.6 | 13.88 | 22.51 | 18.59 | 13.21 | 13.59 | 21.54 | 20.68 | 16.62 | 13.17 |
| 30.88 | 77.38 | 18.67 | 18.34 | 16.78 | 18.65 | 17.02 | 18.9 | 20.75 | 18.46 | 13.46 | 21.12 | 16.53 | 11.93 | 12.35 | 19.32 | 19.57 | 14.87 | 12.65 |
| 30.88 | 77.63 | 16.94 | 18.97 | 15.38 | 18.27 | 15.47 | 18.14 | 19.63 | 18.56 | 12.58 | 19.44 | 15.11 | 11.87 | 11.73 | 17.46 | 17.87 | 13.14 | 12.05 |
| 30.88 | 77.88 | 17.71 | 19.36 | 15.66 | 21.6 | 15.04 | 18.56 | 19.93 | 18.11 | 13.46 | 19.66 | 15.86 | 12.41 | 12.08 | 16.97 | 17.56 | 13.06 | 12.38 |
| 30.88 | 78.13 | 19.13 | 19.05 | 16.72 | 26.79 | 16.06 | 20.38 | 20.58 | 18.67 | 16.92 | 21.05 | 18.15 | 12.84 | 12.95 | 18.42 | 18.8 | 14.86 | 13.58 |
| 30.88 | 78.38 | 19.76 | 18.78 | 17.05 | 32.57 | 17.35 | 21.69 | 20.61 | 19.28 | 19.73 | 22.4 | 20.32 | 13.05 | 13.51 | 19.95 | 19.68 | 17.05 | 14.47 |
| 30.88 | 78.63 | 19.63 | 18.34 | 16.41 | 33.98 | 17.89 | 21.37 | 20.5 | 19.3 | 20.41 | 22.95 | 21.25 | 13.14 | 13.46 | 20.59 | 19.58 | 17.88 | 14.69 |
| 30.88 | 78.88 | 19.05 | 18.03 | 16.13 | 26.51 | 17.66 | 19.89 | 20.73 | 18.64 | 19.71 | 23.08 | 21.81 | 14.84 | 14.29 | 20.63 | 18.67 | 17.45 | 15.55 |
| 30.88 | 79.13 | 16.79 | 16.55 | 14.39 | 18.8 | 15.62 | 16.47 | 19.2 | 16.46 | 17.25 | 20.96 | 20.68 | 16.05 | 14.47 | 18.02 | 16.08 | 15.23 | 14.99 |
| 30.88 | 79.38 | 13.76 | 14.94 | 12.3 | 14.53 | 13.34 | 13.24 | 16.8 | 13.91 | 14.67 | 17.21 | 17.09 | 15.4 | 14.05 | 14.16 | 12.98 | 12.52 | 13.13 |
| 30.88 | 79.63 | 12.58 | 14.68 | 11.82 | 13.34 | 12.66 | 12.4 | 15.4 | 13.08 | 14.44 | 15.77 | 15.34 | 15.62 | 14.39 | 12.76 | 12.12 | 11.65 | 12.61 |
| 30.88 | 79.88 | 12.49 | 14.94 | 11.83 | 13.29 | 12.37 | 12.31 | 13.61 | 13.03 | 14.64 | 15.77 | 15.22 | 16.28 | 14.77 | 12.66 | 12.16 | 11.54 | 12.68 |
| 30.63 | 77.38 | 20.93 | 21.2 | 22 | 23.9 | 18.76 | 22.36 | 22.29 | 20.74 | 16.78 | 22.27 | 19.64 | 15.35 | 15.72 | 21.58 | 22.05 | 18.49 | 15.18 |
| 30.63 | 77.63 | 20.7 | 22.32 | 22.39 | 26.61 | 18.1 | 23.93 | 22.85 | 21.23 | 17.98 | 23.44 | 20.87 | 16.52 | 15.97 | 21.18 | 21.11 | 17.33 | 16.19 |
| 30.63 | 77.88 | 20.9 | 23.72 | 21.04 | 30.19 | 18.09 | 25.23 | 23.46 | 22.05 | 18.8 | 24.12 | 23.68 | 18.12 | 16.38 | 20.79 | 20.49 | 16.73 | 17.27 |
| 30.63 | 78.13 | 20.57 | 22.43 | 19.55 | 32.35 | 18.36 | 24.47 | 22.55 | 21.85 | 19.43 | 23.61 | 23.82 | 17.57 | 15.76 | 20.71 | 20.14 | 16.85 | 16.75 |
| 30.63 | 78.38 | 19.76 | 19.58 | 17 | 39.04 | 18.47 | 22.74 | 20.95 | 20.77 | 20.51 | 23.27 | 22.54 | 15.17 | 13.87 | 20.89 | 19.85 | 17.66 | 14.87 |
| 30.63 | 78.63 | 19.03 | 17.63 | 14.79 | 45.85 | 18.2 | 21.18 | 20.26 | 19.98 | 20.79 | 23.25 | 22.4 | 13.55 | 12.67 | 21.2 | 19.48 | 18.11 | 14.4 |
| 30.63 | 78.88 | 19.18 | 18.22 | 15.96 | 29.15 | 18.09 | 20.29 | 20.94 | 19.24 | 20.16 | 23.85 | 23 | 16.09 | 14.25 | 21.3 | 18.74 | 17.89 | 15.74 |
| 30.63 | 79.13 | 18.42 | 18.22 | 16.22 | 20.86 | 17.18 | 18.42 | 20.91 | 17.83 | 18.86 | 23.48 | 23.37 | 18.79 | 15.93 | 20.36 | 17.99 | 17 | 17.08 |
| 30.63 | 79.38 | 15.38 | 16.32 | 13.68 | 15.98 | 14.33 | 14.5 | 18.49 | 14.95 | 16.04 | 19.84 | 20.28 | 17.93 | 15.25 | 16.52 | 14.82 | 13.88 | 14.94 |
| 30.63 | 79.63 | 13.22 | 15.56 | 12.26 | 13.82 | 12.82 | 12.51 | 15.36 | 13.49 | 15.09 | 16.94 | 16.63 | 17.08 | 15.11 | 13.63 | 12.66 | 12.02 | 13.23 |
| 30.63 | 79.88 | 13.04 | 15.99 | 12.18 | 13.88 | 12.49 | 12.28 | 13.45 | 13.24 | 14.91 | 16.82 | 15.78 | 16.91 | 15.2 | 13.24 | 12.68 | 11.75 | 13.28 |
| 30.63 | 80.13 | 13.6 | 16.79 | 12.28 | 14.25 | 12.47 | 12.14 | 13 | 12.73 | 13.83 | 17.24 | 14.47 | 15.85 | 14.49 | 13.27 | 12.95 | 11.68 | 13.98 |
| 30.38 | 77.88 | 23.77 | 25.26 | 24.7 | 33.31 | 19.11 | 29.89 | 25.26 | 22.94 | 22.66 | 26.9 | 25.04 | 22.76 | 21.44 | 23.32 | 22.18 | 19.61 | 21.83 |
| 30.38 | 78.13 | 23.13 | 24.08 | 22.98 | 32.31 | 19.45 | 27.91 | 24.33 | 22.72 | 21.95 | 25.94 | 24.31 | 21.14 | 20.03 | 22.85 | 21.85 | 19.45 | 20.65 |
| 30.38 | 78.38 | 21.14 | 21.52 | 19.76 | 36.1 | 18.98 | 25.29 | 22.29 | 21.49 | 21.16 | 24.33 | 23.14 | 17.59 | 16.27 | 21.73 | 20.75 | 18.4 | 17.09 |
| 30.38 | 78.63 | 19.21 | 17.94 | 15.75 | 46.82 | 17.31 | 21.9 | 20.4 | 19.86 | 20.78 | 22.68 | 22.36 | 13.93 | 12.78 | 21.57 | 19.67 | 17.21 | 15.26 |
| 30.38 | 78.88 | 18.9 | 17.7 | 15.46 | 33.39 | 16.88 | 20.08 | 20.63 | 19.04 | 20.34 | 23.34 | 23.07 | 15.41 | 13.48 | 20.99 | 18.45 | 17.05 | 15 |
| 30.38 | 79.13 | 18.66 | 18.58 | 16.34 | 21.73 | 16.88 | 18.66 | 20.96 | 17.99 | 19.43 | 24.2 | 24.37 | 19.4 | 15.9 | 20.82 | 18.11 | 17.06 | 17.3 |
| 30.38 | 79.38 | 17.09 | 18.1 | 15.4 | 17.85 | 15.3 | 15.94 | 19.68 | 16.1 | 17.95 | 23.02 | 24.04 | 20.9 | 16.52 | 19.19 | 16.63 | 15.36 | 16.93 |
| 30.38 | 79.63 | 15.1 | 17.64 | 13.97 | 15.64 | 13.56 | 13.26 | 16.45 | 14.46 | 15.89 | 20.44 | 20.53 | 19.63 | 16.22 | 16.84 | 14.74 | 13.37 | 15.28 |
| 30.38 | 79.88 | 15.04 | 17.93 | 13.87 | 15.79 | 13.26 | 12.65 | 14.9 | 13.69 | 14.52 | 19.55 | 17.31 | 17.78 | 15.33 | 15.58 | 14.6 | 12.73 | 15.42 |
| 30.38 | 80.13 | 16.57 | 19.2 | 15.28 | 17.69 | 14.63 | 14.27 | 16.29 | 14.38 | 14.93 | 20.86 | 16.86 | 17.76 | 14.94 | 16.53 | 16.16 | 13.58 | 18.14 |
| 30.38 | 80.38 | 18.45 | 22.06 | 17.03 | 20.52 | 16.88 | 17.36 | 18.66 | 16.34 | 16.56 | 22.86 | 17.75 | 18.69 | 15.8 | 18.05 | 18.21 | 15.89 | 21.73 |
| 30.38 | 80.63 | 20.41 | 27.49 | 17.54 | 22.35 | 17.78 | 19.2 | 19.88 | 17.03 | 16.97 | 23.68 | 18.08 | 19.08 | 16.18 | 18.46 | 19.07 | 17.34 | 23.31 |
| 30.13 | 77.88 | 25.69 | 25.26 | 24.98 | 35.05 | 20.26 | 31.68 | 26.08 | 23.38 | 22.39 | 27.11 | 22.44 | 22.87 | 24.02 | 23.75 | 23.41 | 20.07 | 21.93 |
| 30.13 | 78.13 | 24.98 | 25.01 | 24.54 | 33.65 | 20.76 | 30.45 | 25.75 | 23.17 | 23.31 | 26.93 | 23.43 | 22.89 | 22.98 | 23.42 | 24.09 | 20.83 | 22.14 |
| 30.13 | 78.38 | 22.44 | 23.34 | 22.65 | 33.47 | 20.36 | 27.97 | 23.9 | 22.25 | 22.36 | 24.76 | 23.47 | 20.54 | 19.55 | 21.9 | 23.35 | 19.62 | 19.83 |
| 30.13 | 78.63 | 20.03 | 20.42 | 19.87 | 36.57 | 18.73 | 24.4 | 21.22 | 20.35 | 20.92 | 22.17 | 22.42 | 17.1 | 15.4 | 20.73 | 21.34 | 17.05 | 15.84 |
| 30.13 | 78.88 | 18.66 | 18.26 | 17.05 | 31.11 | 17 | 21.16 | 19.73 | 19.07 | 19.77 | 21.7 | 22.35 | 16.49 | 13.63 | 20.61 | 19.17 | 16.07 | 15.05 |
| 30.13 | 79.13 | 17.56 | 18.26 | 15.69 | 21.31 | 15.86 | 18.51 | 18.97 | 17.5 | 18.43 | 22.21 | 22.1 | 18.24 | 14.38 | 19.93 | 17.04 | 15.91 | 16.09 |
| 30.13 | 79.38 | 16.63 | 18.79 | 15.78 | 18.52 | 15.24 | 16.93 | 18.06 | 16.17 | 17.2 | 22.21 | 21.62 | 19.72 | 15.62 | 19.22 | 16.04 | 15.56 | 16.91 |
| 30.13 | 79.63 | 16.2 | 19.23 | 15.84 | 18.45 | 14.99 | 15.83 | 17.41 | 15.53 | 16.29 | 21.66 | 20.51 | 18.85 | 15.67 | 18.19 | 16.22 | 15.16 | 17.2 |
| 30.13 | 79.88 | 16.92 | 20.21 | 16.72 | 20.14 | 15.79 | 15.94 | 18.05 | 15.66 | 16.58 | 21.6 | 19.24 | 19.35 | 15.59 | 17.9 | 17.6 | 15.38 | 18.67 |
| 30.13 | 80.13 | 18.44 | 21.97 | 18.25 | 22.63 | 17.57 | 17.83 | 19.73 | 17.02 | 17.58 | 22.85 | 18.88 | 20.15 | 16.35 | 18.85 | 19.13 | 16.49 | 21.77 |

| Lattitude | Longitude | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Table date from the year 1971 to 1987 Continued* | | | | | | | | | | | | | | | | | | |
| 30.13 | 80.38 | 19.29 | 23.45 | 18.44 | 23.13 | 18.38 | 19.14 | 20.26 | 17.75 | 18.09 | 23.88 | 18.52 | 19.59 | 16.62 | 19.08 | 19.52 | 17.2 | 23.81 |
| 30.13 | 80.63 | 19.32 | 25.17 | 17.86 | 22.6 | 18.23 | 19.83 | 20.36 | 17.64 | 17.88 | 24.65 | 18.38 | 19.5 | 16.59 | 18.87 | 19.54 | 17.49 | 24.41 |
| 29.88 | 77.88 | 24.31 | 21.26 | 23.94 | 39.02 | 22.66 | 32.9 | 26.04 | 25.73 | 19.52 | 24.38 | 20.53 | 20.08 | 23.12 | 21.58 | 24.61 | 18.7 | 21.73 |
| 29.88 | 78.13 | 23.44 | 23.14 | 23.97 | 36.71 | 22.62 | 32.62 | 25.88 | 24.59 | 23.16 | 24.73 | 22.63 | 22.18 | 22.02 | 21.67 | 27.18 | 19.99 | 22.79 |
| 29.88 | 78.38 | 21.97 | 23.75 | 23.73 | 30.82 | 22.76 | 28.82 | 24.33 | 23.17 | 24.41 | 23.85 | 23.74 | 22.15 | 20.24 | 21.11 | 27.55 | 20.54 | 21.77 |
| 29.88 | 78.63 | 20.7 | 22.94 | 22.81 | 28.27 | 22.1 | 26.6 | 22.49 | 22.29 | 23.46 | 22.65 | 23.01 | 20.91 | 18.49 | 20.41 | 26.01 | 19.7 | 20.43 |
| 29.88 | 78.88 | 19 | 21.44 | 20.41 | 25.74 | 20.01 | 24.55 | 20.14 | 21.11 | 21.78 | 21.78 | 22.15 | 19.72 | 15.97 | 19.74 | 22.4 | 18.11 | 18.38 |
| 29.88 | 79.13 | 17.01 | 20.22 | 17.25 | 21.79 | 17.5 | 22.2 | 17.9 | 19.07 | 19.07 | 21.68 | 21.24 | 18.81 | 14.84 | 19.1 | 17.94 | 17 | 16.87 |
| 29.88 | 79.38 | 16.23 | 20.39 | 16.47 | 20.68 | 16.52 | 21.24 | 17.45 | 17.76 | 17.47 | 22.1 | 21.1 | 18.56 | 15.47 | 18.86 | 16.21 | 17.1 | 17.29 |
| 29.88 | 79.63 | 16.43 | 21.26 | 16.94 | 21.83 | 16.7 | 20.13 | 18.12 | 17.68 | 17.61 | 22.18 | 20.99 | 18.09 | 15.6 | 18.53 | 16.75 | 17.42 | 18.35 |
| 29.88 | 79.88 | 17.07 | 22.06 | 17.88 | 23.49 | 17.45 | 18.84 | 19.33 | 17.58 | 17.56 | 21.89 | 19.87 | 19.3 | 15.83 | 18.31 | 18.19 | 17.33 | 19.79 |
| 29.88 | 80.13 | 18.2 | 23.18 | 19.01 | 25.26 | 18.5 | 18.74 | 20.61 | 17.82 | 18.18 | 22.25 | 19.48 | 21.67 | 16.89 | 19.09 | 19.5 | 17.3 | 21.66 |
| 29.88 | 80.38 | 19.05 | 23.88 | 18.71 | 24.36 | 18.49 | 18.94 | 20.64 | 17.77 | 18.09 | 23.22 | 18.66 | 20.06 | 16.67 | 19.05 | 19.47 | 17.28 | 22.95 |
| 29.63 | 78.63 | 20.96 | 25.03 | 24.1 | 27.5 | 24.26 | 28.76 | 23.7 | 23.6 | 26.62 | 23.08 | 24.94 | 23.35 | 19.92 | 20.69 | 29.42 | 21.75 | 24.06 |
| 29.63 | 78.88 | 19.8 | 23.97 | 22.04 | 25.95 | 22.03 | 27.37 | 21.43 | 22.75 | 23.62 | 22.64 | 23.58 | 21.82 | 17.91 | 19.94 | 24.22 | 20.52 | 21.7 |
| 29.63 | 79.13 | 18.14 | 22.66 | 19.08 | 23.75 | 19.72 | 25.46 | 19.16 | 21.2 | 20.12 | 22.47 | 21.97 | 20.09 | 16.48 | 19.14 | 19.14 | 19.27 | 19.29 |
| 29.63 | 79.38 | 17.32 | 22.23 | 17.71 | 22.94 | 18.66 | 24.66 | 18.6 | 20.11 | 18.54 | 22.65 | 21.55 | 19.4 | 16.45 | 19 | 16.88 | 19.12 | 18.77 |
| 29.63 | 79.63 | 16.48 | 22.23 | 17.11 | 22.95 | 17.77 | 23.67 | 18.21 | 19.24 | 17.42 | 22.43 | 21.43 | 18.32 | 16.16 | 18.49 | 16.31 | 18.7 | 18.34 |
| 29.63 | 79.88 | 16 | 22.28 | 17.1 | 23.69 | 17.18 | 20.63 | 17.98 | 18.09 | 16.46 | 21.57 | 19.85 | 17.4 | 15.42 | 17.71 | 16.72 | 17.6 | 18.18 |
| 29.63 | 80.13 | 16.91 | 22.87 | 17.89 | 25.53 | 17.74 | 18.87 | 18.68 | 17.96 | 16.51 | 21.2 | 18.91 | 18.92 | 16.02 | 18.04 | 17.76 | 17.12 | 19.23 |
| 29.63 | 80.38 | 17.81 | 22.74 | 17.53 | 24.47 | 17.74 | 18.68 | 18.52 | 17.82 | 16.35 | 21.65 | 17.63 | 17.95 | 16.09 | 17.91 | 17.51 | 16.97 | 20.21 |
| 29.38 | 79.13 | 19.23 | 23.9 | 20.06 | 25.03 | 20.67 | 28.04 | 20.49 | 22.1 | 20.71 | 23.09 | 23.79 | 20.88 | 17.87 | 19.9 | 19.58 | 20.77 | 21.13 |
| 29.38 | 79.38 | 19.03 | 23.78 | 19.35 | 24.91 | 20.35 | 26.45 | 20.64 | 21.95 | 20.73 | 23.75 | 22.74 | 20.92 | 17.9 | 20.73 | 18.16 | 21.08 | 21.34 |
| 29.38 | 79.63 | 18.07 | 23.63 | 18.52 | 24.82 | 19.83 | 25.67 | 20.28 | 21.33 | 20.22 | 23.55 | 22.11 | 20.52 | 17.36 | 20.75 | 17.4 | 20.62 | 20.87 |
| 29.38 | 79.88 | 15.86 | 23.01 | 16.81 | 23.68 | 18.1 | 22.62 | 19.27 | 19.26 | 17.86 | 21.64 | 20.39 | 18.24 | 16.06 | 20.17 | 16.71 | 18.98 | 18.86 |
| 29.38 | 80.13 | 15.37 | 22.58 | 16.1 | 23.51 | 17 | 19.94 | 18.67 | 18.29 | 16.12 | 20.13 | 18.35 | 16.58 | 15.6 | 19.33 | 16.77 | 17.99 | 18.26 |
| 29.13 | 79.38 | 19.7 | 25.15 | 20.48 | 28.07 | 21.27 | 29.61 | 22.74 | 23.01 | 22.83 | 24.26 | 25.45 | 22.99 | 19.28 | 21.92 | 19.27 | 23.54 | 24.26 |
| 29.13 | 79.63 | 18.6 | 25.29 | 19.22 | 27.98 | 21.1 | 27.14 | 23.05 | 22.39 | 23.58 | 23.98 | 23.61 | 22.7 | 18.62 | 24.15 | 18.76 | 22.97 | 23.89 |
| 29.13 | 79.88 | 16.66 | 25.12 | 17.6 | 27.05 | 20.47 | 24.31 | 23.83 | 20.84 | 22.75 | 22.17 | 22.05 | 21.43 | 17.71 | 27.39 | 18.6 | 21.66 | 23.27 |
| 29.13 | 80.13 | 15.78 | 25.31 | 17.21 | 26.41 | 20.15 | 23.13 | 24.22 | 20.43 | 21.62 | 21.37 | 20.92 | 20.82 | 17.86 | 27.82 | 18.58 | 20.71 | 23.33 |
| 28.88 | 79.63 | 17.5 | 25.25 | 18.98 | 33.23 | 20.96 | 27.75 | 27.68 | 21.8 | 27.03 | 22.84 | 26.46 | 24.69 | 19.35 | 28.17 | 20.07 | 24.81 | 27.19 |
| 28.88 | 79.88 | 16.62 | 25.44 | 18.23 | 32.32 | 21.38 | 26.04 | 26.86 | 21.44 | 25.98 | 22.42 | 23.82 | 24.45 | 18.5 | 33.34 | 20.46 | 22.71 | 27.92 |

| Lattitude | Longitude | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Table date from the year 1988 to 2004 Continued* | | | | | | | | | | | | | | | | | | |
| 36.88 | 73.88 | 12.82 | 23.14 | 15.88 | 15.01 | 24.24 | 18.69 | 15.51 | 18.08 | 17.33 | 32.98 | 18.99 | 32.26 | 13.9 | 24.88 | 15.89 | 14.67 | 12.42 |
| 36.88 | 74.38 | 13.43 | 17.02 | 15.47 | 13.43 | 25.11 | 17.11 | 12.12 | 14.22 | 16.59 | 32.58 | 15.81 | 26.01 | 10.73 | 17.66 | 14.62 | 15.51 | 12.6 |
| 36.88 | 74.63 | 14.28 | 16.18 | 15.49 | 13.56 | 22.24 | 17.22 | 12.33 | 13.69 | 15.92 | 31.12 | 14.99 | 21.14 | 10.44 | 15.92 | 13.96 | 17.34 | 14.68 |
| 36.88 | 74.88 | 14.62 | 15.63 | 15.46 | 13.66 | 18.57 | 16.4 | 12.69 | 15.09 | 15.24 | 25.99 | 14.34 | 18.27 | 10.35 | 16.22 | 13.78 | 19.05 | 18.18 |
| 36.88 | 75.13 | 14.3 | 15.31 | 15.23 | 13.38 | 15.39 | 15.41 | 12.67 | 17.33 | 14.37 | 20.32 | 14 | 17.04 | 10.71 | 16.59 | 13.96 | 19.66 | 19.75 |
| 36.88 | 75.38 | 13.84 | 15.26 | 14.93 | 13.01 | 13.46 | 14.82 | 12.77 | 20.15 | 13.56 | 16.17 | 14.29 | 16.48 | 11.6 | 17.41 | 14.94 | 20.09 | 20.42 |
| 36.63 | 73.13 | 12.49 | 27.63 | 15.73 | 16.03 | 22.65 | 19.06 | 17.24 | 19.72 | 17.82 | 32.02 | 20.58 | 33.39 | 15.89 | 29.95 | 16.67 | 14.82 | 12.96 |
| 36.63 | 73.38 | 13.89 | 30.19 | 17.85 | 16.82 | 23.25 | 19.51 | 18.05 | 20.04 | 18.07 | 33.02 | 20.75 | 33.51 | 18.02 | 29.49 | 16.78 | 15.01 | 12.87 |
| 36.63 | 73.63 | 14.69 | 31.19 | 17.91 | 16.78 | 23.53 | 19.53 | 17.87 | 19.65 | 18.22 | 33.44 | 20.2 | 33.13 | 17.2 | 27.38 | 16.82 | 15.11 | 12.75 |
| 36.63 | 73.88 | 14.25 | 30.01 | 15.46 | 15.65 | 24.2 | 19.52 | 16.31 | 18.34 | 18.06 | 34.33 | 19.06 | 32.25 | 15.26 | 23.82 | 16.39 | 15.13 | 12.62 |
| 36.63 | 74.13 | 13.76 | 26.92 | 14.25 | 14.44 | 26.44 | 19.59 | 14 | 15.85 | 17.79 | 36.48 | 17.55 | 30.5 | 13.64 | 20.01 | 15.58 | 15.38 | 12.57 |
| 36.63 | 74.38 | 13.84 | 24.09 | 14.77 | 13.96 | 30.9 | 20.2 | 12.83 | 12.74 | 17.76 | 42.07 | 17.05 | 27.54 | 13.7 | 16.66 | 14.69 | 16.56 | 13.41 |
| 36.63 | 74.63 | 13.74 | 22.39 | 15.38 | 13.99 | 34.19 | 20.02 | 13.82 | 11.69 | 17.69 | 46.32 | 17.63 | 24.03 | 13.72 | 16.07 | 14.12 | 18.51 | 16.46 |
| 36.63 | 74.88 | 13.43 | 21.05 | 15.87 | 14.13 | 32.19 | 18.81 | 14.28 | 12.28 | 17.2 | 44.67 | 17.45 | 21.58 | 13.6 | 16.65 | 14.09 | 19.81 | 19.57 |
| 36.63 | 75.13 | 13.17 | 19.77 | 16.22 | 14.29 | 28.3 | 17.95 | 13.97 | 12.82 | 16.68 | 41.42 | 16.35 | 20.3 | 13.45 | 17.24 | 14.42 | 20.2 | 20.61 |
| 36.63 | 75.38 | 13.06 | 18.69 | 16.18 | 14.54 | 23.48 | 16.99 | 13.91 | 13.77 | 16.05 | 36.17 | 15.18 | 19.7 | 12.53 | 18.17 | 15.99 | 20.77 | 21.36 |
| 36.63 | 75.63 | 13.18 | 18.41 | 14.9 | 15.39 | 20.24 | 15.96 | 14.85 | 15.37 | 14.31 | 32.97 | 13.79 | 21.76 | 13.01 | 18.3 | 18.87 | 21.52 | 22.63 |
| 36.38 | 72.88 | 12.18 | 25.34 | 14.33 | 14.91 | 18.27 | 18.59 | 14.76 | 19 | 17.65 | 27.67 | 18.94 | 31.56 | 12.6 | 30.21 | 16.83 | 14.39 | 13.69 |
| 36.38 | 73.13 | 13.51 | 29.94 | 18.47 | 16.59 | 21.55 | 19.3 | 18.39 | 20.29 | 18.16 | 31.4 | 20.6 | 33.3 | 15.2 | 30.48 | 16.84 | 14.93 | 13.05 |
| 36.38 | 73.38 | 15.62 | 32.12 | 20.56 | 17.38 | 23.07 | 19.53 | 19.36 | 20.52 | 18.43 | 32.95 | 20.96 | 33.61 | 18.56 | 30.25 | 16.94 | 15.12 | 12.89 |
| 36.38 | 73.63 | 15.13 | 31.88 | 17.38 | 16.7 | 23.7 | 19.48 | 17.72 | 19.56 | 18.35 | 33.89 | 20.18 | 33.05 | 17.44 | 27.27 | 16.94 | 15.21 | 12.81 |

| Lattitude | Longitude | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Table date from the year 1988 to 2004 Continued* | | | | | | | | | | | | | | | | | | |
| 36.38 | 73.88 | 14.65 | 30.99 | 13.65 | 15.58 | 25.07 | 19.68 | 15.01 | 17.65 | 18.16 | 35.62 | 18.97 | 31.78 | 15.93 | 22.81 | 16.7 | 15.51 | 12.82 |
| 36.38 | 74.13 | 14.83 | 29.89 | 12.84 | 14.75 | 28 | 20.51 | 12.84 | 14.86 | 17.97 | 38.74 | 18.02 | 29.49 | 14.9 | 18.38 | 16.19 | 16.28 | 13.11 |
| 36.38 | 74.38 | 15.42 | 29.06 | 14.78 | 14.59 | 33.89 | 21.88 | 12.65 | 12.67 | 17.95 | 44.3 | 18.62 | 26.37 | 15.44 | 16.21 | 15.66 | 17.69 | 14.46 |
| 36.38 | 74.63 | 15.56 | 28.78 | 17.21 | 15.17 | 38.94 | 22.12 | 13.7 | 13.12 | 18.03 | 49.95 | 20.16 | 23.67 | 16.01 | 16.1 | 15.51 | 19.1 | 17.08 |
| 36.38 | 74.88 | 15.27 | 28.73 | 19.22 | 16.41 | 39.2 | 20.81 | 14.53 | 14.81 | 17.93 | 50.45 | 20.79 | 22.2 | 16.7 | 16.64 | 15.79 | 19.81 | 19.21 |
| 36.38 | 75.13 | 14.96 | 29.11 | 21.35 | 18.64 | 37.6 | 19.81 | 15.5 | 16.96 | 17.75 | 50.58 | 20.71 | 22.08 | 17.72 | 16.65 | 16.68 | 20.13 | 20.64 |
| 36.38 | 75.38 | 14.18 | 30.66 | 22.03 | 20.57 | 35.59 | 19.06 | 16.89 | 20.34 | 16.99 | 49.72 | 19.99 | 23.84 | 18.2 | 17.44 | 19.07 | 20.83 | 22.23 |
| 36.38 | 75.63 | 14.34 | 29.08 | 18.44 | 22.07 | 30.39 | 17.36 | 17.66 | 22.58 | 14.97 | 44.29 | 18.16 | 27.88 | 18.02 | 19.18 | 20.37 | 21.55 | 21.99 |
| 36.38 | 75.88 | 16.69 | 24.48 | 16.83 | 22.4 | 26.7 | 16.86 | 18.95 | 22.31 | 13.85 | 36.86 | 17.64 | 32.62 | 20.62 | 19.54 | 20.75 | 22.04 | 18.98 |
| 36.38 | 76.13 | 17.69 | 21.59 | 16.27 | 21.32 | 25.47 | 17.33 | 19.65 | 20.39 | 13.65 | 32.28 | 17.39 | 35.06 | 22.08 | 19.68 | 20.48 | 22.75 | 17.17 |
| 36.13 | 72.63 | 17.22 | 14.24 | 14.97 | 14.58 | 12.53 | 19.03 | 10.54 | 15.3 | 15.75 | 21.1 | 14.97 | 24.1 | 15.86 | 15.41 | 16.33 | 13.81 | 16 |
| 36.13 | 72.88 | 13.14 | 22.32 | 13.75 | 14.77 | 15.83 | 18.68 | 12.8 | 18.06 | 16.97 | 24.92 | 17.5 | 30.02 | 12.21 | 25.11 | 16.47 | 14.11 | 14.05 |
| 36.13 | 73.13 | 13.25 | 29.25 | 17.61 | 16.21 | 20.53 | 19.18 | 17.26 | 19.93 | 17.98 | 30.57 | 20.04 | 32.85 | 14 | 29.19 | 16.81 | 14.86 | 13.1 |
| 36.13 | 73.38 | 15.3 | 32.27 | 19.23 | 17.47 | 23.07 | 19.43 | 18.68 | 20.21 | 18.35 | 33.25 | 20.71 | 33.42 | 18.18 | 29.41 | 17.01 | 15.13 | 12.88 |
| 36.13 | 73.63 | 14.58 | 31.56 | 15.22 | 16.55 | 23.83 | 19.27 | 16.26 | 18.83 | 18.17 | 34.26 | 19.74 | 32.51 | 16.91 | 25.64 | 16.93 | 15.26 | 12.87 |
| 36.13 | 73.88 | 14.55 | 30.84 | 12.7 | 15.61 | 25.77 | 19.6 | 13.19 | 16.33 | 18.04 | 36.58 | 18.62 | 30.61 | 15.67 | 20.38 | 16.74 | 15.89 | 13.07 |
| 36.13 | 74.13 | 15.41 | 30.38 | 13.08 | 14.95 | 30.77 | 21.74 | 11.82 | 13.89 | 18.07 | 41.08 | 18.9 | 27.76 | 15.52 | 16.55 | 16.67 | 17.35 | 13.95 |
| 36.13 | 74.38 | 16.04 | 30.2 | 14.98 | 15.1 | 37.09 | 23.62 | 12.58 | 13.72 | 18.12 | 45.72 | 20.7 | 24.73 | 16.25 | 15.4 | 16.83 | 18.89 | 16.19 |
| 36.13 | 74.63 | 15.47 | 29.8 | 16.42 | 16.24 | 34.95 | 21.35 | 12.85 | 14.9 | 17.93 | 45.06 | 21.69 | 22.19 | 17.1 | 14.25 | 16.81 | 19.12 | 17.71 |
| 36.13 | 74.88 | 14.54 | 28.45 | 17.11 | 17.88 | 29.94 | 18.91 | 13.21 | 15.74 | 17.54 | 40.9 | 21.53 | 20.63 | 17.03 | 13.25 | 17 | 18.69 | 18.1 |
| 36.13 | 75.13 | 13.44 | 26.39 | 16.72 | 19.13 | 26.46 | 17.22 | 13.64 | 15.83 | 16.78 | 36.7 | 20.33 | 20.43 | 16.19 | 13.02 | 17.48 | 18.28 | 17.66 |
| 36.13 | 75.38 | 13.23 | 24.89 | 16.69 | 20.49 | 25.6 | 16.27 | 14.92 | 16.61 | 15.6 | 35.51 | 18.55 | 22 | 16.76 | 14.15 | 18.3 | 18.67 | 17.29 |
| 36.13 | 75.63 | 14.9 | 22.9 | 16.86 | 21.06 | 25.76 | 15.93 | 16.75 | 17.95 | 14.53 | 33.31 | 17.71 | 25.09 | 19.29 | 16.91 | 19.22 | 19.97 | 16.96 |
| 36.13 | 75.88 | 16.38 | 20.25 | 16.73 | 20.98 | 25.06 | 16.01 | 17.87 | 18.4 | 14 | 29.59 | 17.55 | 27.69 | 20.78 | 18.58 | 19.23 | 21.21 | 16.12 |
| 36.13 | 76.13 | 17.13 | 19.15 | 16.37 | 20.59 | 24.82 | 16.42 | 18.57 | 18.4 | 13.77 | 28.46 | 17.56 | 30.03 | 21.46 | 19.76 | 19.15 | 22.22 | 15.72 |
| 36.13 | 76.38 | 17.6 | 19.03 | 16.32 | 20.53 | 24.93 | 16.81 | 19.07 | 18.76 | 13.69 | 28.78 | 17.6 | 32.18 | 21.89 | 20.35 | 19.38 | 23.4 | 15.34 |
| 36.13 | 76.63 | 17.92 | 18.52 | 16.25 | 20.38 | 24.71 | 17.09 | 19.26 | 18.87 | 13.65 | 28.55 | 17.5 | 33.91 | 21.77 | 21.07 | 18.62 | 24.78 | 14.91 |
| 35.88 | 72.63 | 18.64 | 12.41 | 15.57 | 14.79 | 12.47 | 20.29 | 10.53 | 14.6 | 14.94 | 21.03 | 14.85 | 19.64 | 14.5 | 14.29 | 16.2 | 14.23 | 17.18 |
| 35.88 | 73.13 | 13.66 | 30.15 | 15.78 | 16.03 | 20.24 | 19.43 | 15.54 | 19.14 | 17.95 | 30.49 | 19.48 | 31.81 | 13.77 | 30.5 | 17.26 | 14.94 | 13.5 |
| 35.88 | 73.38 | 13.82 | 31.43 | 15 | 17.05 | 23.11 | 18.71 | 15.54 | 18.7 | 18 | 33.61 | 19.64 | 32.16 | 16.77 | 25.33 | 16.99 | 15.19 | 12.97 |
| 35.88 | 73.63 | 13.46 | 30.11 | 13.71 | 16.6 | 23.66 | 18.28 | 13.09 | 16.61 | 17.83 | 34.27 | 18.66 | 30.43 | 15.29 | 20.66 | 16.77 | 15.56 | 13.11 |
| 35.88 | 73.88 | 13.8 | 29.07 | 13.98 | 16.27 | 25.29 | 18.53 | 11.27 | 13.86 | 17.8 | 36.29 | 18.58 | 27.49 | 14.29 | 16.29 | 16.6 | 16.64 | 13.71 |
| 35.88 | 74.13 | 14.67 | 28.85 | 14.73 | 15.77 | 29.6 | 20.53 | 11.36 | 12.83 | 17.9 | 40.6 | 20.45 | 24.21 | 14.7 | 14.43 | 16.7 | 18.36 | 15.44 |
| 35.88 | 74.38 | 15.27 | 28.99 | 15.39 | 15.77 | 32.39 | 20.9 | 12.27 | 14.43 | 17.86 | 42.59 | 21.65 | 21.86 | 15.95 | 13.74 | 16.41 | 19.23 | 17.65 |
| 35.88 | 74.63 | 14.91 | 27.61 | 15.53 | 17.03 | 27.25 | 18.32 | 12.56 | 15.82 | 17.61 | 37.66 | 21.05 | 19.76 | 16.37 | 12.27 | 15.92 | 18.7 | 18.24 |
| 35.88 | 74.88 | 13.21 | 23.44 | 14.02 | 18.02 | 21.56 | 15.87 | 12.54 | 14.49 | 16.78 | 29.29 | 19.66 | 18.28 | 13.94 | 11.45 | 16.13 | 17.3 | 16.88 |
| 35.88 | 75.13 | 12.5 | 20.16 | 13.2 | 18.31 | 19.47 | 14.6 | 12.9 | 13.1 | 15.75 | 23.5 | 17.98 | 18.39 | 12.25 | 11.39 | 16.74 | 16.37 | 15.18 |
| 35.88 | 75.38 | 13.42 | 18.61 | 13.95 | 18.85 | 20.11 | 14.55 | 14.22 | 13.29 | 14.81 | 22.13 | 17.15 | 20.23 | 13.56 | 12.07 | 17.12 | 16.9 | 14.59 |
| 35.88 | 75.63 | 15.32 | 18.29 | 15.39 | 19.8 | 22.5 | 15.5 | 16.4 | 15.48 | 14.16 | 24.01 | 17.21 | 23.86 | 17.73 | 14.28 | 18.03 | 19 | 14.86 |
| 35.88 | 75.88 | 16.72 | 18.87 | 16.28 | 20.61 | 24.47 | 16.2 | 18.05 | 17.82 | 13.86 | 26.93 | 17.53 | 27.98 | 20.91 | 18.53 | 19.04 | 21.45 | 15.29 |
| 35.88 | 76.13 | 17.33 | 19.37 | 16.43 | 20.68 | 25.12 | 16.61 | 18.88 | 18.57 | 13.75 | 28.81 | 17.66 | 30.69 | 21.97 | 20.09 | 19.49 | 23.13 | 15.34 |
| 35.88 | 76.38 | 17.67 | 19.3 | 16.45 | 20.7 | 25.33 | 16.84 | 19.19 | 18.95 | 13.7 | 29.49 | 17.72 | 32.21 | 22.23 | 20.68 | 19.56 | 24.04 | 15.17 |
| 35.88 | 76.63 | 17.9 | 19.23 | 16.34 | 20.59 | 25.25 | 17.07 | 19.26 | 19.14 | 13.64 | 29.64 | 17.64 | 33.6 | 22.03 | 20.81 | 18.9 | 24.93 | 14.91 |
| 35.88 | 79.38 | 23.38 | 20.79 | 20.12 | 20.53 | 25.39 | 18.76 | 29.01 | 41.49 | 15.56 | 25.06 | 18.81 | 28.8 | 18.73 | 22.74 | 24.14 | 15.7 | 19.86 |
| 35.63 | 73.38 | 13.16 | 29.26 | 14.76 | 17.37 | 22.9 | 17.77 | 12.16 | 15.77 | 17.87 | 33.07 | 18.82 | 28.7 | 15.03 | 20.22 | 17.07 | 15.72 | 13.43 |
| 35.63 | 73.63 | 13.21 | 27.68 | 15.68 | 17.72 | 23.14 | 16.93 | 11.15 | 13.38 | 17.85 | 33.35 | 19.13 | 25.91 | 13.74 | 16.06 | 16.96 | 16.75 | 14.07 |
| 35.63 | 73.88 | 13.59 | 26.95 | 16.85 | 18.28 | 24.05 | 17.02 | 11.25 | 11.93 | 18.01 | 34.79 | 21.51 | 22.38 | 13.32 | 14.55 | 17.34 | 18.33 | 15.83 |
| 35.63 | 74.13 | 13.79 | 26.72 | 17.12 | 18.35 | 25.13 | 17.46 | 11.62 | 12.5 | 18.01 | 36.3 | 23.81 | 19.83 | 13.35 | 13.92 | 17.53 | 19.29 | 17.96 |
| 35.63 | 74.38 | 13.61 | 25.26 | 15.97 | 17.96 | 23.74 | 16.54 | 11.84 | 13.52 | 17.5 | 33.39 | 22.28 | 18.44 | 13.55 | 12.24 | 16.4 | 18.36 | 17.97 |
| 35.63 | 74.63 | 12.92 | 21.75 | 14.01 | 18.26 | 19.71 | 15.01 | 12.39 | 13.48 | 16.82 | 25.5 | 19.76 | 17.21 | 12.64 | 11.28 | 15.9 | 16.71 | 16.69 |
| 35.63 | 74.88 | 12.55 | 18.74 | 12.94 | 18.93 | 17.79 | 13.94 | 12.81 | 12.21 | 16.23 | 19.56 | 18.49 | 16.85 | 11.32 | 11.49 | 16.95 | 15.08 | 15.12 |
| 35.63 | 75.13 | 13.01 | 17.44 | 12.86 | 19.01 | 17.82 | 13.98 | 13.44 | 11.89 | 15.48 | 17.81 | 17.4 | 17.61 | 11.71 | 11.49 | 17.63 | 14.84 | 14.19 |
| 35.63 | 75.38 | 14.24 | 17.09 | 13.77 | 19.16 | 19.36 | 14.74 | 14.86 | 12.78 | 14.56 | 19.08 | 16.79 | 20.35 | 13.98 | 11.96 | 17.7 | 16.37 | 13.89 |
| 35.63 | 75.63 | 16.01 | 17.49 | 15.19 | 19.82 | 22.25 | 15.98 | 17.02 | 15.88 | 13.92 | 23.02 | 17.06 | 25.24 | 18.34 | 14.78 | 18.28 | 19.65 | 14.22 |
| 35.63 | 75.88 | 17.27 | 18.44 | 16.12 | 20.3 | 24.43 | 16.64 | 18.65 | 18.05 | 13.71 | 27.18 | 17.49 | 30.15 | 21.44 | 19.71 | 19.09 | 22.71 | 15.05 |
| 35.63 | 76.13 | 17.78 | 19.07 | 16.39 | 20.58 | 25.2 | 16.97 | 19.23 | 18.93 | 13.68 | 29.22 | 17.71 | 32.79 | 22.15 | 20.83 | 19.33 | 24.39 | 15.04 |
| 35.63 | 76.38 | 17.96 | 19.35 | 16.33 | 20.62 | 25.36 | 17.14 | 19.33 | 19.26 | 13.64 | 29.99 | 17.69 | 33.91 | 22.13 | 20.89 | 19.04 | 25.08 | 14.93 |
| 35.63 | 76.63 | 17.99 | 19.1 | 16.17 | 20.42 | 25.12 | 17.32 | 19.22 | 19.35 | 13.57 | 30.2 | 17.4 | 34.71 | 21.69 | 20.35 | 18.64 | 25.55 | 14.88 |

| Lattitude | Longitude | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Table date from the year 1988 to 2004 Continued* | | | | | | | | | | | | | | | | | | |
| 35.63 | 76.88 | 18.01 | 17.98 | 15.99 | 20.01 | 24.26 | 17.46 | 19.08 | 19.03 | 13.55 | 28.78 | 17.08 | 35.39 | 20.71 | 20.57 | 18.06 | 25.96 | 14.81 |
| 35.63 | 77.13 | 17.9 | 16.67 | 15.92 | 19.53 | 23.15 | 17.42 | 19.01 | 18.61 | 13.56 | 26.91 | 16.81 | 35.26 | 19.4 | 20.41 | 17.49 | 25.73 | 14.81 |
| 35.63 | 77.38 | 17.41 | 16.6 | 15.84 | 18.97 | 22.98 | 16.93 | 18.96 | 19.56 | 13.39 | 28.34 | 16.63 | 34.72 | 20.5 | 19.47 | 17.28 | 24.48 | 14.66 |
| 35.63 | 78.38 | 9.94 | 12.53 | 13.46 | 11.57 | 12.76 | 12.51 | 14.93 | 15.59 | 11.15 | 17.99 | 10.43 | 15.03 | 13.07 | 17.25 | 17.04 | 12.21 | 10.24 |
| 35.63 | 78.63 | 10.6 | 11.77 | 13.48 | 12.2 | 12.43 | 13.17 | 14.47 | 15.3 | 11 | 13.51 | 10.3 | 14.37 | 10.47 | 14.76 | 17.77 | 11.42 | 10.99 |
| 35.63 | 78.88 | 12.94 | 12.1 | 13.8 | 13.53 | 14.19 | 14.25 | 15.48 | 18.15 | 11.35 | 11.67 | 11.17 | 16.31 | 10.02 | 14.59 | 18.86 | 11.82 | 12.14 |
| 35.63 | 79.13 | 16.02 | 13 | 14.57 | 15.28 | 16.88 | 15.58 | 17.4 | 23.43 | 12.18 | 11.24 | 12.72 | 19.05 | 10.65 | 15.23 | 19.72 | 12.61 | 13.44 |
| 35.63 | 79.38 | 19.26 | 14.75 | 16.08 | 17.12 | 19.99 | 17.06 | 19.89 | 30.82 | 13.72 | 12.91 | 14.57 | 21.7 | 12.16 | 17.06 | 20.66 | 13.61 | 14.91 |
| 35.63 | 79.63 | 23.43 | 18.51 | 19 | 19.41 | 24.52 | 18.77 | 24.09 | 42.08 | 16.46 | 19.45 | 17.62 | 25.35 | 15.28 | 21.22 | 22.21 | 14.82 | 17.48 |
| 35.63 | 79.88 | 28.2 | 23.62 | 23.19 | 21.79 | 30.32 | 20.31 | 29.64 | 54.8 | 20.21 | 34.39 | 22.3 | 28.49 | 20.24 | 27.41 | 23.94 | 15.93 | 21.12 |
| 35.63 | 80.13 | 31.43 | 25.62 | 24.99 | 22.63 | 33.93 | 20.81 | 30.56 | 60.19 | 23.36 | 42.37 | 24.73 | 28.25 | 23.08 | 30.77 | 24.6 | 16.1 | 23.46 |
| 35.38 | 73.88 | 14.05 | 25.63 | 18.48 | 19.12 | 23.33 | 17.07 | 12.02 | 12.95 | 18.29 | 31.97 | 27.7 | 17.32 | 13.49 | 15.8 | 18.66 | 19.93 | 18.3 |
| 35.38 | 74.13 | 13.7 | 25.08 | 17.96 | 19.95 | 23.22 | 16.5 | 12.36 | 12.8 | 18.13 | 32.3 | 26.82 | 17.33 | 13.44 | 14.76 | 19.31 | 19.78 | 19.6 |
| 35.38 | 74.38 | 12.9 | 20.87 | 15.14 | 18.52 | 19.97 | 14.4 | 12.1 | 11.57 | 16.95 | 24.3 | 21.76 | 16.44 | 11.47 | 11.69 | 17.23 | 16.73 | 16.38 |
| 35.38 | 74.63 | 12.6 | 17.49 | 12.99 | 18.37 | 17.33 | 13.36 | 12.56 | 11.31 | 16.1 | 17.71 | 18.57 | 16.04 | 10.95 | 11.17 | 17.15 | 14.31 | 14.5 |
| 35.38 | 74.88 | 13.17 | 16.47 | 12.51 | 19.04 | 16.91 | 13.51 | 13.21 | 11.39 | 15.92 | 15.56 | 18.05 | 16.31 | 11.52 | 11.53 | 18.39 | 13.54 | 14 |
| 35.38 | 75.13 | 13.67 | 16.25 | 12.69 | 19.21 | 17.38 | 14.06 | 13.84 | 11.54 | 15.36 | 15.64 | 17.26 | 17.28 | 12.32 | 11.55 | 18.55 | 13.96 | 13.71 |
| 35.38 | 75.38 | 14.69 | 15.93 | 13.59 | 18.97 | 18.7 | 14.97 | 15.21 | 12.48 | 14.29 | 17.31 | 16.25 | 20.17 | 14.25 | 11.62 | 17.51 | 15.92 | 13.13 |
| 35.38 | 75.63 | 16.62 | 16.76 | 15.29 | 19.74 | 22.33 | 16.43 | 17.65 | 16.62 | 13.71 | 22.85 | 16.84 | 27.33 | 18.59 | 15.72 | 17.82 | 20.93 | 13.66 |
| 35.38 | 75.88 | 17.92 | 19.05 | 16.11 | 20.23 | 24.95 | 17.19 | 19.23 | 18.98 | 13.7 | 29.7 | 17.62 | 34.96 | 21.68 | 21.36 | 19.1 | 25.34 | 15.08 |
| 35.38 | 76.13 | 18.15 | 18.56 | 16.23 | 20.3 | 24.96 | 17.41 | 19.35 | 19.34 | 13.65 | 29.99 | 17.49 | 35.74 | 21.53 | 21.54 | 18.57 | 25.91 | 14.86 |
| 35.38 | 76.38 | 18.06 | 17.87 | 16.08 | 19.81 | 24.33 | 17.55 | 19.24 | 19.13 | 13.61 | 29.73 | 17.17 | 36.07 | 20.88 | 21.05 | 18.55 | 25.88 | 14.92 |
| 35.38 | 76.63 | 17.91 | 17.13 | 16 | 19.44 | 23.47 | 17.8 | 19.13 | 18.91 | 13.61 | 29.28 | 16.92 | 36.77 | 19.98 | 20.56 | 18.96 | 25.81 | 15.18 |
| 35.38 | 76.88 | 17.77 | 16.37 | 16.1 | 19.3 | 22.42 | 17.66 | 19.12 | 18.59 | 13.69 | 26.88 | 16.75 | 36.96 | 18.95 | 19.6 | 19.15 | 25.52 | 15.55 |
| 35.38 | 77.13 | 17.59 | 15.74 | 16.08 | 19.07 | 22.28 | 17.83 | 19.19 | 19.65 | 13.57 | 28.08 | 16.58 | 37.79 | 19.21 | 19.82 | 18.95 | 25.51 | 15.74 |
| 35.38 | 77.38 | 17.43 | 16.74 | 15.43 | 19.08 | 23.49 | 17.28 | 18.78 | 24.11 | 13.18 | 32.13 | 16.36 | 39.92 | 20.56 | 19.44 | 18.03 | 26.19 | 16.54 |
| 35.38 | 77.63 | 17.35 | 19.34 | 15.07 | 19.25 | 23.79 | 16.8 | 18.61 | 28.85 | 12.87 | 36.3 | 16.33 | 39 | 21.01 | 18.27 | 18.12 | 26.13 | 18.34 |
| 35.38 | 77.88 | 16.61 | 19.12 | 14.87 | 17.12 | 23.57 | 15.89 | 18.55 | 28.52 | 12.6 | 37.16 | 15.92 | 35.44 | 20.72 | 17.59 | 17.9 | 23.91 | 17.44 |
| 35.38 | 78.13 | 14.87 | 18.21 | 14.39 | 14.88 | 20.25 | 13.92 | 17.91 | 24.65 | 12.02 | 32.02 | 14.08 | 28.77 | 20.27 | 17.77 | 17.93 | 18.83 | 14.49 |
| 35.38 | 78.38 | 11.51 | 14.52 | 13.52 | 12.63 | 15.49 | 12.43 | 16.22 | 18.62 | 11.05 | 23.36 | 11.51 | 19.42 | 17.29 | 18.23 | 15.98 | 14.2 | 10.88 |
| 35.38 | 78.63 | 9.84 | 11.51 | 12.91 | 12.07 | 11.79 | 12.45 | 14.32 | 15 | 10.27 | 15.83 | 10.12 | 14.12 | 11.65 | 15.09 | 15.82 | 11.54 | 10.12 |
| 35.38 | 78.88 | 10.82 | 10.79 | 12.52 | 12.55 | 11.46 | 13.08 | 13.36 | 14.83 | 10.13 | 11.3 | 10.27 | 13.85 | 9.64 | 12.53 | 15.96 | 10.66 | 10.58 |
| 35.38 | 79.13 | 12.86 | 10.87 | 12.58 | 13.53 | 12.91 | 14.28 | 13.36 | 17.05 | 10.71 | 9.94 | 11.16 | 15.44 | 9.35 | 12.26 | 16.47 | 10.89 | 11.14 |
| 35.38 | 79.38 | 15.01 | 11.41 | 13.27 | 14.48 | 14.75 | 15.45 | 14.31 | 21.42 | 11.86 | 9.88 | 11.96 | 16.91 | 9.65 | 13.15 | 17.1 | 11.55 | 11.69 |
| 35.38 | 79.63 | 18.39 | 13.16 | 14.82 | 16.04 | 17.99 | 16.93 | 16.37 | 29.74 | 14.14 | 11.15 | 13.43 | 19.06 | 10.77 | 15.57 | 18.47 | 12.59 | 12.98 |
| 35.38 | 79.88 | 23.9 | 17.61 | 18.32 | 18.93 | 24.16 | 18.99 | 20.96 | 43.08 | 18.19 | 17.46 | 16.98 | 23.07 | 14.18 | 21.01 | 21.09 | 14.25 | 16.38 |
| 35.38 | 80.13 | 29.91 | 23.37 | 23 | 21.74 | 31.32 | 20.48 | 26.18 | 55.97 | 22.89 | 32.46 | 21.94 | 25.9 | 20.16 | 28.56 | 23.66 | 15.53 | 21.57 |
| 35.13 | 74.13 | 13.3 | 16.87 | 16.12 | 16.95 | 18.75 | 14.63 | 11.93 | 11.94 | 17.04 | 20.22 | 23.53 | 13.91 | 11.35 | 12.59 | 15.97 | 17.03 | 14.45 |
| 35.13 | 74.38 | 11.92 | 13.19 | 12.99 | 14.7 | 15.35 | 11.91 | 11.51 | 10.48 | 14.73 | 14.11 | 16.03 | 13.3 | 10.7 | 10 | 14.17 | 13.2 | 12.7 |
| 35.13 | 74.63 | 12.04 | 12.26 | 12.01 | 14.42 | 14.37 | 11.25 | 11.61 | 10.4 | 13.82 | 12.22 | 14.26 | 13.37 | 10.82 | 9.76 | 13.88 | 11.73 | 12.16 |
| 35.13 | 74.88 | 12.39 | 12.26 | 11.82 | 14.84 | 14.48 | 11.42 | 11.96 | 10.51 | 13.73 | 11.83 | 14.14 | 13.84 | 11.04 | 9.78 | 14.32 | 11.46 | 12.12 |
| 35.13 | 75.13 | 12.92 | 12.61 | 12.11 | 15.51 | 15.21 | 12.07 | 12.69 | 10.69 | 13.71 | 12.27 | 14.4 | 14.94 | 11.42 | 9.81 | 14.8 | 12.04 | 12.18 |
| 35.13 | 75.38 | 14.25 | 13.36 | 13.16 | 16.79 | 17.08 | 13.71 | 14.45 | 11.6 | 13.59 | 14.13 | 15.08 | 18 | 13.11 | 10.17 | 15.4 | 14.12 | 12.28 |
| 35.13 | 75.63 | 16.29 | 14.65 | 14.97 | 18.53 | 20.82 | 16.07 | 17.16 | 15.07 | 13.55 | 18.74 | 16.39 | 25.42 | 16.96 | 13.38 | 16.61 | 19.32 | 13.15 |
| 35.13 | 75.88 | 17.51 | 16.82 | 15.9 | 18.96 | 23.33 | 17.01 | 18.79 | 17.75 | 13.7 | 26.02 | 17.24 | 33.93 | 19.76 | 20.23 | 19.49 | 24.11 | 15.3 |
| 35.13 | 76.13 | 17.73 | 16.46 | 16.03 | 19.03 | 22.74 | 17.28 | 19 | 18.21 | 13.74 | 26.32 | 16.99 | 36.17 | 19.16 | 20.21 | 19.56 | 24.81 | 15.58 |
| 35.13 | 76.38 | 17.59 | 15.67 | 16.03 | 18.91 | 21.53 | 17.01 | 18.99 | 18.02 | 13.77 | 24.44 | 16.58 | 36.84 | 17.93 | 18.74 | 19.77 | 24.6 | 15.82 |
| 35.13 | 76.63 | 17.48 | 15.21 | 16.17 | 19.19 | 20.51 | 16.81 | 19.14 | 18.21 | 13.88 | 23.4 | 16.4 | 37.49 | 17.39 | 18.13 | 21.01 | 24.44 | 16.69 |
| 35.13 | 76.88 | 17.44 | 14.8 | 16.36 | 19.21 | 20.05 | 17.01 | 19.3 | 18.98 | 13.86 | 23.96 | 16.33 | 38.5 | 17.38 | 18.4 | 22.23 | 24.37 | 17.46 |
| 35.13 | 77.13 | 17.29 | 14.51 | 15.81 | 18.94 | 21.47 | 17.93 | 19.15 | 21.88 | 13.53 | 29.16 | 16.24 | 41.62 | 18.96 | 19.56 | 20.16 | 24.65 | 17.01 |
| 35.13 | 77.38 | 17.55 | 18.09 | 15.25 | 19.46 | 23.6 | 17.65 | 18.76 | 28.96 | 13.1 | 36.67 | 16.15 | 41.57 | 20.87 | 19 | 18.9 | 26.34 | 18.6 |
| 35.13 | 77.63 | 17.76 | 18.66 | 15.11 | 21.29 | 23.68 | 17.27 | 18.65 | 30.12 | 13.03 | 37.83 | 16.28 | 40.85 | 20.44 | 18.73 | 20.21 | 27.21 | 20.12 |
| 35.13 | 77.88 | 17.63 | 18.72 | 15.03 | 19.92 | 23.89 | 17.02 | 18.7 | 29.76 | 12.84 | 37.92 | 16.65 | 39.98 | 20.19 | 18.12 | 20.07 | 26.68 | 19.71 |
| 35.13 | 78.13 | 16.54 | 18.71 | 14.85 | 16.86 | 23.75 | 15.93 | 18.61 | 28.55 | 12.37 | 37.48 | 16.15 | 35.61 | 20.24 | 17.52 | 18.62 | 23.77 | 17.65 |
| 35.13 | 78.38 | 14.76 | 17.99 | 14.27 | 14.84 | 20.38 | 13.96 | 17.83 | 25.2 | 11.66 | 31.84 | 13.85 | 28.02 | 19.96 | 17.89 | 18.09 | 18.37 | 14.31 |
| 35.13 | 78.63 | 10.72 | 13.36 | 13.23 | 13.22 | 14.14 | 12.77 | 15.65 | 17.99 | 10.42 | 21.18 | 10.87 | 17.43 | 15.49 | 17.78 | 15.3 | 13.51 | 10.48 |
| 35.13 | 78.88 | 10.2 | 10.57 | 12.11 | 12.79 | 10.69 | 13.13 | 13.1 | 14.16 | 9.85 | 11.7 | 10 | 13.35 | 9.85 | 12.18 | 14.55 | 10.57 | 10.13 |
| 35.13 | 79.13 | 11.28 | 10.33 | 11.53 | 13.01 | 11.1 | 13.53 | 11.87 | 14.22 | 10.2 | 9.74 | 10.63 | 14.32 | 9.54 | 11.1 | 14.11 | 10.09 | 10.48 |

| Lattitude | Longitude | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Table date from the year 1988 to 2004 Continued* | | | | | | | | | | | | | | | | | | |
| 35.13 | 79.38 | 11.93 | 10.34 | 11.57 | 13.09 | 11.57 | 13.54 | 11.94 | 15.6 | 10.54 | 9.45 | 10.73 | 15.01 | 10.07 | 11.49 | 13.8 | 10.29 | 10.48 |
| 35.13 | 79.63 | 13.44 | 10.74 | 11.93 | 13.59 | 12.77 | 13.94 | 12.32 | 19.05 | 11.59 | 9.33 | 11.07 | 16.11 | 11.19 | 12.71 | 14.03 | 10.72 | 10.76 |
| 35.13 | 79.88 | 16.72 | 12.39 | 13.15 | 15.26 | 15.89 | 15.32 | 13.61 | 26.01 | 14.17 | 10.11 | 12.15 | 18.21 | 12.92 | 15.54 | 15.61 | 11.73 | 12.06 |
| 35.13 | 80.13 | 22.58 | 16.79 | 15.94 | 18.37 | 22.11 | 17.23 | 16.45 | 37.72 | 18.9 | 14.93 | 14.68 | 21.36 | 17.51 | 21.89 | 18.51 | 13.29 | 15.89 |
| 34.88 | 74.13 | 14.22 | 12.84 | 14.52 | 15.8 | 15.06 | 15.46 | 11.89 | 12.77 | 15.92 | 13.65 | 21.5 | 12.9 | 10.92 | 12.23 | 13.27 | 15.4 | 11.85 |
| 34.88 | 74.38 | 12.08 | 11.08 | 13.24 | 14.07 | 13.72 | 13.18 | 11.4 | 11.12 | 13.72 | 11.96 | 15.9 | 12.3 | 10.88 | 10.66 | 13.29 | 12.94 | 11.65 |
| 34.88 | 74.63 | 11.96 | 10.51 | 12.42 | 12.96 | 12.95 | 11.7 | 11.23 | 10.63 | 12.27 | 11.22 | 13.51 | 12.08 | 11.37 | 9.98 | 12.59 | 11.47 | 11.44 |
| 34.88 | 74.88 | 12.01 | 10.37 | 12.12 | 12.61 | 12.77 | 11.35 | 11.23 | 10.53 | 11.81 | 10.9 | 12.93 | 12.03 | 11.42 | 9.81 | 12.33 | 11.06 | 11.28 |
| 34.88 | 75.13 | 12.03 | 10.38 | 12.02 | 12.54 | 12.72 | 11.31 | 11.41 | 10.53 | 11.72 | 10.75 | 12.69 | 12.2 | 11.31 | 9.75 | 12.19 | 11.06 | 11.18 |
| 34.88 | 75.38 | 12.43 | 10.58 | 12.33 | 12.99 | 13.24 | 11.63 | 12.14 | 10.72 | 11.95 | 10.83 | 13.04 | 13.21 | 11.5 | 9.71 | 12.41 | 11.62 | 11.31 |
| 34.88 | 75.63 | 13.75 | 11.22 | 13.47 | 14.6 | 15.14 | 12.74 | 14.07 | 11.62 | 12.62 | 11.63 | 14.49 | 17.01 | 12.64 | 9.95 | 13.64 | 13.73 | 12.01 |
| 34.88 | 75.88 | 15.58 | 12.52 | 15.1 | 17.03 | 18.08 | 14.17 | 16.72 | 13.86 | 13.39 | 14.35 | 15.92 | 24.73 | 14.55 | 11.87 | 16.08 | 17.73 | 13.71 |
| 34.88 | 76.13 | 16.89 | 14.66 | 15.93 | 18.49 | 19.75 | 15.55 | 18.47 | 16.31 | 13.87 | 19.21 | 16.39 | 32.91 | 16.23 | 16.25 | 20.47 | 21.17 | 16.56 |
| 34.88 | 76.38 | 17.28 | 15.03 | 16.23 | 19.11 | 19.49 | 16.35 | 19.02 | 17.64 | 13.96 | 21.31 | 16.37 | 36.5 | 16.77 | 17.95 | 22.91 | 22.15 | 18 |
| 34.88 | 76.63 | 17.47 | 14.83 | 16.42 | 19.4 | 19.07 | 16.8 | 19.27 | 18.36 | 14.02 | 21.56 | 16.27 | 38.46 | 16.81 | 18.59 | 23.91 | 22.58 | 18.86 |
| 34.88 | 76.88 | 17.42 | 14.2 | 16.17 | 19.41 | 19.46 | 17.38 | 19.14 | 20.11 | 13.87 | 23.27 | 16.08 | 41.49 | 17.04 | 19.62 | 23.54 | 22.77 | 18.85 |
| 34.88 | 77.13 | 17.43 | 14.61 | 15.36 | 19.11 | 21.71 | 18.44 | 18.89 | 23.92 | 13.49 | 31.07 | 15.81 | 44.2 | 18.84 | 20.36 | 19.97 | 23.35 | 17.35 |
| 34.88 | 77.38 | 17.81 | 18.56 | 15.14 | 20.33 | 23.54 | 17.9 | 18.74 | 29.63 | 13.27 | 36.85 | 16.05 | 42.23 | 20.56 | 18.79 | 19.22 | 24.94 | 18.25 |
| 34.88 | 77.63 | 17.9 | 18.84 | 14.95 | 20.14 | 23.67 | 18.63 | 18.41 | 27.58 | 12.95 | 39.72 | 15.89 | 41.37 | 20.25 | 18.75 | 20.34 | 26.27 | 19.36 |
| 34.88 | 77.88 | 17.44 | 19.4 | 14.7 | 18.58 | 24.23 | 19.09 | 18.28 | 26.03 | 12.58 | 43.3 | 16.03 | 40.39 | 20.16 | 18.8 | 21.69 | 27.29 | 20.9 |
| 34.88 | 78.13 | 16.79 | 20.12 | 14.71 | 17.23 | 25.2 | 19 | 18.55 | 25.58 | 12.3 | 45.39 | 16.71 | 37.05 | 20.32 | 17.99 | 20.45 | 26.57 | 19.56 |
| 34.88 | 78.38 | 16.05 | 20.08 | 14.44 | 16.57 | 24.62 | 18.34 | 17.64 | 24.98 | 11.95 | 45.21 | 15.88 | 30.88 | 20.41 | 17.43 | 19.17 | 22.95 | 16.62 |
| 34.88 | 78.63 | 13.89 | 17.2 | 13.38 | 15.56 | 18.5 | 13.99 | 15.52 | 22.03 | 10.96 | 30.2 | 12.37 | 20.07 | 19.79 | 17.37 | 16.91 | 16.24 | 12.09 |
| 34.88 | 78.88 | 10.41 | 10.69 | 11.11 | 13.12 | 10.49 | 12.11 | 12.24 | 15.1 | 9.58 | 12.37 | 9.68 | 14.48 | 14.4 | 12.48 | 13.33 | 10.8 | 9.45 |
| 34.88 | 79.13 | 10.71 | 10.45 | 10.59 | 12.67 | 9.78 | 12.16 | 11.21 | 12.79 | 9.52 | 9.62 | 10.27 | 15.31 | 13.92 | 11.02 | 12.41 | 9.57 | 9.8 |
| 34.88 | 79.38 | 11.02 | 10.45 | 10.61 | 12.59 | 9.84 | 12.17 | 11.31 | 12.89 | 9.53 | 9.56 | 10.44 | 15.69 | 14.84 | 11.3 | 12.43 | 9.59 | 9.85 |
| 34.88 | 79.63 | 11.71 | 10.63 | 10.8 | 12.86 | 10.12 | 12.34 | 11.68 | 13.98 | 9.7 | 9.38 | 10.71 | 16.7 | 16.58 | 12.07 | 12.7 | 9.77 | 9.89 |
| 34.88 | 79.88 | 13.09 | 11.41 | 11.35 | 13.85 | 11.15 | 12.76 | 12.51 | 16.2 | 10.71 | 9.23 | 11.21 | 18.82 | 19.31 | 13.93 | 13.41 | 10.24 | 10.32 |
| 34.63 | 73.88 | 19.31 | 14.2 | 12.96 | 12.85 | 13.4 | 16.54 | 12.31 | 14.25 | 12.77 | 13.88 | 16.91 | 13.58 | 14.02 | 14.18 | 11.49 | 13.59 | 10.14 |
| 34.63 | 74.13 | 15.79 | 12.91 | 14.99 | 16.43 | 14.66 | 16.56 | 11.87 | 12.99 | 15.91 | 13.21 | 22.09 | 13.34 | 11.19 | 13.02 | 12.77 | 16.24 | 11.52 |
| 34.63 | 74.38 | 13.56 | 11.14 | 15.09 | 15.59 | 14.07 | 15.28 | 11.74 | 11.96 | 14.05 | 12.58 | 19.29 | 13.46 | 11.22 | 11.57 | 13.36 | 14.74 | 11.72 |
| 34.63 | 74.63 | 12.99 | 10.29 | 14.37 | 13.85 | 13.17 | 14.05 | 11.44 | 11.19 | 11.98 | 11.96 | 15.79 | 12.6 | 12.43 | 10.38 | 13.07 | 13.05 | 11.51 |
| 34.63 | 74.88 | 12.58 | 10.09 | 13.48 | 12.83 | 12.68 | 12.93 | 11.23 | 10.9 | 11.26 | 11.37 | 14.13 | 12 | 12.3 | 10.13 | 12.46 | 12.06 | 11.22 |
| 34.63 | 75.13 | 11.9 | 10.07 | 12.48 | 12.17 | 12.09 | 12.09 | 10.94 | 10.62 | 10.94 | 10.81 | 12.9 | 11.54 | 11.61 | 10.05 | 11.79 | 11.52 | 10.9 |
| 34.63 | 75.38 | 11.96 | 10.25 | 12.46 | 12.35 | 12.19 | 12.15 | 11.23 | 10.72 | 11.07 | 10.75 | 12.92 | 11.86 | 11.66 | 10.23 | 11.83 | 11.7 | 11.03 |
| 34.63 | 75.63 | 12.94 | 10.63 | 13.53 | 13.81 | 13.43 | 13.22 | 12.49 | 11.33 | 11.68 | 11.12 | 14.47 | 13.78 | 12.61 | 10.51 | 12.82 | 12.84 | 11.83 |
| 34.63 | 75.88 | 14.69 | 11.59 | 15.33 | 16.48 | 16.1 | 14.22 | 14.99 | 13.03 | 12.7 | 12.73 | 15.93 | 19.78 | 14.35 | 10.81 | 15.2 | 15.49 | 13.91 |
| 34.63 | 76.13 | 16.45 | 13.73 | 16.42 | 18.88 | 19.3 | 15.72 | 17.91 | 16.35 | 13.58 | 18.08 | 16.39 | 30.47 | 16.45 | 14.57 | 19.94 | 18.6 | 18.14 |
| 34.63 | 76.38 | 17.21 | 15.25 | 16.68 | 19.73 | 20.59 | 17.23 | 19.38 | 19.99 | 13.84 | 23.57 | 16.74 | 38.85 | 18.21 | 18.36 | 23.78 | 20.03 | 22.15 |
| 34.63 | 76.63 | 17.27 | 15.15 | 16.42 | 19.48 | 20.43 | 17.62 | 19.27 | 20.43 | 13.81 | 24.06 | 16.55 | 39.82 | 18.15 | 19.2 | 23.7 | 20.49 | 21.28 |
| 34.63 | 76.88 | 17.14 | 14.82 | 15.65 | 18.71 | 21.35 | 18.25 | 19 | 21.24 | 13.47 | 27.42 | 16.19 | 41.18 | 19.13 | 19.48 | 21.76 | 20.49 | 19.78 |
| 34.63 | 77.13 | 17.5 | 17.6 | 15.09 | 17.76 | 23.82 | 18.77 | 18.66 | 25.25 | 13.14 | 35.21 | 16.08 | 42.59 | 20.66 | 20.92 | 18.92 | 21.08 | 16.67 |
| 34.63 | 77.38 | 17.81 | 19.61 | 14.78 | 17.95 | 24.37 | 19.99 | 18.77 | 25.76 | 12.83 | 40.86 | 16.18 | 41.79 | 20.82 | 19.66 | 19.02 | 22.18 | 15.97 |
| 34.63 | 77.63 | 17.13 | 20.64 | 14.49 | 17.59 | 23.48 | 21.96 | 18.12 | 25.06 | 12.3 | 48.08 | 15.8 | 37.75 | 20.67 | 19.47 | 19.98 | 24.25 | 17.61 |
| 34.63 | 77.88 | 17.02 | 22.92 | 14.61 | 17.69 | 22.57 | 24.46 | 17.04 | 26.39 | 12.09 | 53.54 | 17.65 | 33.8 | 21.57 | 19.31 | 21.35 | 26.35 | 19.43 |
| 34.63 | 78.13 | 18.72 | 24.51 | 15.14 | 19.19 | 22.43 | 26.87 | 17.37 | 27.95 | 12.7 | 54.79 | 25.42 | 29.41 | 24.52 | 18.39 | 22.16 | 26.08 | 18.87 |
| 34.63 | 78.38 | 20.39 | 26.48 | 16.53 | 19.45 | 20.84 | 30.3 | 17.29 | 28.12 | 13.29 | 54.45 | 31.8 | 25.72 | 28.42 | 17.78 | 24.16 | 23.2 | 16.04 |
| 34.63 | 78.63 | 18.62 | 24.37 | 15.45 | 18.51 | 18.95 | 25.76 | 14.35 | 26.72 | 13.04 | 45.88 | 28.14 | 24.58 | 43.17 | 17.45 | 23.8 | 17.24 | 12.52 |
| 34.63 | 78.88 | 15.55 | 14.16 | 10.84 | 14.74 | 13.18 | 20.89 | 11.58 | 20.55 | 11.59 | 21.1 | 16.58 | 21.33 | 31.46 | 12.32 | 18.95 | 11.19 | 10.01 |
| 34.63 | 79.13 | 15.35 | 12.25 | 10.93 | 12.51 | 10.47 | 18.89 | 11.67 | 15.69 | 10.53 | 10.35 | 13.35 | 18.5 | 24.23 | 11.67 | 17.24 | 9.89 | 10 |
| 34.63 | 79.38 | 15.87 | 12.3 | 11.23 | 12.3 | 10.38 | 18.75 | 12.64 | 15.04 | 10.69 | 9.94 | 12.66 | 17.97 | 23.34 | 11.94 | 17.14 | 9.85 | 10.04 |
| 34.63 | 79.63 | 16.91 | 12.69 | 11.69 | 12.75 | 10.64 | 18.81 | 13.99 | 16.06 | 10.56 | 10.36 | 12.71 | 19.32 | 24.63 | 12.69 | 17.48 | 10.02 | 9.92 |
| 34.38 | 73.63 | 20.59 | 15.4 | 12.84 | 11.96 | 13.41 | 15.69 | 13.47 | 14.93 | 11.55 | 14.92 | 15.03 | 14.98 | 16.52 | 14.78 | 12.92 | 12.79 | 11.04 |
| 34.38 | 73.88 | 18.28 | 13.46 | 13.09 | 12.78 | 14.03 | 16.12 | 12.27 | 13.05 | 13.18 | 13.54 | 16.39 | 13.72 | 13.93 | 13.68 | 11.6 | 14.13 | 10.11 |
| 34.38 | 74.13 | 16.52 | 12.36 | 15.66 | 16.43 | 15.11 | 16.56 | 11.63 | 12.32 | 15.81 | 13.39 | 22.44 | 14.71 | 11.69 | 13.28 | 12.61 | 16.82 | 11.48 |
| 34.38 | 74.38 | 14.92 | 11.07 | 16.82 | 16.85 | 14.66 | 16.37 | 11.76 | 12.04 | 13.71 | 13.31 | 21.72 | 15.15 | 11.6 | 11.84 | 13.29 | 16.07 | 12.2 |
| 34.38 | 74.63 | 14.35 | 10.09 | 16.29 | 15.15 | 13.83 | 15.66 | 11.45 | 11.84 | 11.77 | 12.91 | 18.35 | 13.75 | 12.67 | 10.09 | 13.26 | 14.53 | 11.84 |
| 34.38 | 74.88 | 13.12 | 9.68 | 14.44 | 13.54 | 12.92 | 14.14 | 10.84 | 11.32 | 11.01 | 12.08 | 15.34 | 11.86 | 11.83 | 9.5 | 12.14 | 12.69 | 11.44 |

| Lattitude | Longitude | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Table date from the year 1988 to 2004 Continued* | | | | | | | | | | | | | | | | | | |
| 34.38 | 75.13 | 11.95 | 9.75 | 12.72 | 12.39 | 12.19 | 12.78 | 10.52 | 10.63 | 10.64 | 10.9 | 13.34 | 11.37 | 11.45 | 9.77 | 11.45 | 11.76 | 10.82 |
| 34.38 | 75.38 | 12.18 | 10.07 | 12.81 | 12.53 | 12.29 | 13.08 | 10.85 | 10.77 | 10.74 | 10.68 | 13.56 | 11.96 | 11.98 | 10.31 | 11.67 | 11.97 | 10.94 |
| 34.38 | 75.63 | 13.55 | 10.41 | 14.32 | 14.21 | 13.54 | 14.75 | 11.89 | 11.49 | 11.28 | 11.13 | 15.99 | 13.91 | 13.59 | 10.68 | 12.55 | 12.93 | 11.72 |
| 34.38 | 75.88 | 15.68 | 11.61 | 17.23 | 18.16 | 16.58 | 17.07 | 14.18 | 13.65 | 12.49 | 13.73 | 19.06 | 19.1 | 17.97 | 10.68 | 14.23 | 14.54 | 14.17 |
| 34.38 | 76.13 | 17.59 | 14.48 | 18.23 | 21.78 | 19.56 | 19.23 | 16.62 | 17.18 | 13.11 | 19.38 | 20.06 | 25.72 | 27.76 | 12.19 | 16.61 | 16.16 | 18.35 |
| 34.38 | 76.38 | 18.35 | 18.21 | 18.16 | 23.64 | 22.34 | 20.06 | 18.53 | 21.11 | 13.26 | 25.62 | 19.91 | 31.32 | 33.65 | 15.61 | 20.57 | 17.59 | 22.19 |
| 34.38 | 76.63 | 17.98 | 18.27 | 17.29 | 22.15 | 23.76 | 20.38 | 18.94 | 22.05 | 13.2 | 29.05 | 18.8 | 33.62 | 29.21 | 16.84 | 20.67 | 18.06 | 22.09 |
| 34.38 | 76.88 | 17.4 | 18.19 | 16.03 | 18.29 | 24.56 | 20.01 | 19.6 | 23.17 | 13.21 | 34.58 | 18.05 | 35.9 | 24.56 | 19.24 | 19.15 | 18.04 | 19.38 |
| 34.38 | 77.13 | 17.67 | 23.29 | 15.01 | 16.13 | 25.82 | 22.45 | 19.85 | 21.57 | 12.77 | 41.66 | 17.1 | 35.52 | 23.04 | 20.08 | 18.67 | 18.54 | 16.3 |
| 34.38 | 77.38 | 19.24 | 23.32 | 14.63 | 16.61 | 22.45 | 28.95 | 18.28 | 25.83 | 12.28 | 50.7 | 18.1 | 31.91 | 23.41 | 20.23 | 19.02 | 19.8 | 15.19 |
| 34.38 | 77.63 | 21.13 | 23.87 | 15.9 | 18.3 | 20.86 | 32.1 | 18.62 | 31.05 | 13.54 | 52.31 | 29.67 | 26.24 | 29.62 | 20.61 | 19.65 | 22.14 | 15.96 |
| 34.38 | 77.88 | 21.25 | 24.87 | 17.4 | 19.1 | 21.36 | 33.82 | 17.28 | 32.12 | 14.84 | 51.9 | 43.71 | 36.81 | 34.74 | 20.27 | 21.41 | 23.48 | 16.79 |
| 34.38 | 78.13 | 21.49 | 26.28 | 18.9 | 19.32 | 22.69 | 35.96 | 17.53 | 32.69 | 15.34 | 51.24 | 51.7 | 39.35 | 36.17 | 19.42 | 25.32 | 22.45 | 15.35 |
| 34.38 | 78.38 | 21.6 | 28.66 | 19.17 | 19.52 | 22.59 | 36.75 | 17.73 | 31.91 | 15.45 | 50.44 | 56.1 | 42.11 | 39.49 | 19.56 | 28.62 | 19.34 | 14.08 |
| 34.38 | 78.63 | 19.86 | 27.64 | 18.11 | 18.84 | 21 | 31.15 | 16.21 | 28.83 | 15.36 | 46.11 | 49.09 | 35.08 | 45.42 | 15.29 | 25.51 | 14.8 | 11.93 |
| 34.38 | 78.88 | 17.08 | 17.68 | 12.25 | 17.05 | 17.01 | 23.93 | 12.97 | 23.33 | 14.9 | 31.34 | 35.68 | 28.26 | 37.06 | 12.01 | 21.58 | 11.71 | 10.49 |
| 34.38 | 79.13 | 17.92 | 14.45 | 11.27 | 14.82 | 13.72 | 24.24 | 12.84 | 18.41 | 12.43 | 15.63 | 21.63 | 24.66 | 32.19 | 11.96 | 20.41 | 10.75 | 10.28 |
| 34.38 | 79.38 | 20.15 | 14.22 | 11.82 | 13.25 | 12.72 | 24.1 | 14.07 | 17.46 | 11.47 | 10.39 | 16.68 | 21.66 | 29.96 | 12.8 | 21.25 | 10.6 | 10.26 |
| 34.13 | 73.63 | 18.29 | 13.65 | 12.67 | 11.82 | 13.53 | 14.01 | 13.13 | 13.28 | 11.14 | 13.86 | 14.26 | 13.53 | 14.8 | 13.62 | 13.06 | 12.94 | 10.56 |
| 34.13 | 73.88 | 17.05 | 12.27 | 12.96 | 12.47 | 14.07 | 15.08 | 12.03 | 11.65 | 12.96 | 12.8 | 15.02 | 13.42 | 13.58 | 12.86 | 11.86 | 14.03 | 10.05 |
| 34.13 | 74.13 | 15.97 | 11.23 | 14.38 | 13.79 | 14.37 | 15.61 | 11.23 | 11.11 | 13.76 | 12.27 | 17.17 | 13.97 | 12.26 | 12.32 | 12.08 | 15.69 | 10.6 |
| 34.13 | 74.38 | 15.05 | 10.27 | 15.77 | 14.62 | 13.96 | 15.85 | 11.06 | 11.58 | 12.43 | 12.17 | 18.93 | 14.22 | 11.46 | 10.92 | 12.58 | 15.71 | 11.46 |
| 34.13 | 74.63 | 15.52 | 9.94 | 16.71 | 15.46 | 13.55 | 16.21 | 11.37 | 12.6 | 11.79 | 12.98 | 19.65 | 14.76 | 12.39 | 10.14 | 13.1 | 15.17 | 13 |
| 34.13 | 74.88 | 14.96 | 10.05 | 15.34 | 15.3 | 12.87 | 15.52 | 11.18 | 12.66 | 11.68 | 13.4 | 17.07 | 13.72 | 11.8 | 10.12 | 12.32 | 13.31 | 13.28 |
| 34.13 | 75.13 | 13.11 | 9.86 | 13.34 | 13.71 | 12.41 | 14.11 | 10.88 | 11.18 | 11.23 | 11.78 | 14.81 | 12.46 | 11.53 | 9.49 | 11.47 | 12 | 11.51 |
| 34.13 | 75.38 | 12.91 | 9.97 | 13.05 | 13.1 | 12.6 | 14.23 | 10.99 | 10.96 | 11.02 | 10.88 | 14.79 | 13.1 | 12.25 | 9.91 | 11.48 | 11.98 | 10.89 |
| 34.13 | 75.63 | 14.25 | 10.45 | 14.4 | 14.57 | 13.68 | 16.05 | 11.95 | 11.77 | 11.6 | 11.38 | 17.11 | 15.86 | 14.44 | 10.39 | 12.22 | 12.82 | 11.45 |
| 34.13 | 75.88 | 17.48 | 12.17 | 17.36 | 19.42 | 16.13 | 18.98 | 14.79 | 14.19 | 13.13 | 14.61 | 21.64 | 27.63 | 23.07 | 10.81 | 13.71 | 14.15 | 13.56 |
| 34.13 | 76.13 | 21.15 | 16.82 | 18.77 | 26.37 | 19.09 | 21.1 | 17.32 | 18.27 | 14.13 | 19.33 | 27.11 | 47.02 | 58.39 | 11.17 | 14.89 | 15.31 | 17.43 |
| 34.13 | 76.38 | 24.02 | 22.63 | 19.37 | 31.37 | 22.33 | 22.35 | 19.24 | 22.01 | 14.65 | 24.13 | 31.99 | 54.33 | 72.43 | 14.01 | 17.12 | 16.22 | 20.56 |
| 34.13 | 76.63 | 25.35 | 25.01 | 19.58 | 33.19 | 25.84 | 24.36 | 20.39 | 24.06 | 15.33 | 30.07 | 34.87 | 50.91 | 66.47 | 16.73 | 18.71 | 16.63 | 21.6 |
| 34.13 | 76.88 | 25.25 | 25.92 | 17.65 | 25.68 | 26.29 | 37.94 | 21.98 | 20.26 | 15.57 | 41.67 | 30.48 | 54.39 | 49.72 | 20.91 | 18.03 | 16.68 | 20.29 |
| 34.13 | 77.13 | 23.1 | 31.52 | 16.96 | 18.67 | 22.48 | 50.35 | 20.6 | 30.2 | 15 | 49.09 | 34.89 | 36.34 | 35.13 | 20.84 | 18.84 | 17.21 | 18.2 |
| 34.13 | 77.38 | 22.78 | 23.17 | 18.25 | 18.7 | 20.74 | 40.66 | 18.31 | 37.3 | 15.35 | 49.6 | 40.6 | 36.6 | 44.5 | 20.57 | 20.08 | 18.02 | 15.98 |
| 34.13 | 77.63 | 22.83 | 23.92 | 18.91 | 19.24 | 19.91 | 38.86 | 18.82 | 35.51 | 15.86 | 50.02 | 42.66 | 38.85 | 45.38 | 20.43 | 20.63 | 19.2 | 14.46 |
| 34.13 | 77.88 | 22.76 | 25.07 | 19.7 | 19.78 | 18.36 | 39.31 | 19.74 | 33.97 | 16.28 | 49.31 | 46.37 | 41.16 | 42.72 | 20.38 | 23.43 | 19.11 | 13.05 |
| 34.13 | 78.13 | 22.58 | 26.46 | 20.47 | 19.76 | 19.55 | 38.89 | 20.32 | 33.48 | 16.4 | 48.83 | 53.88 | 43.07 | 42.8 | 19.76 | 26.16 | 17.58 | 12.51 |
| 34.13 | 78.38 | 21.79 | 29.89 | 20.22 | 19.66 | 24.54 | 38.39 | 19.96 | 32.06 | 16.37 | 48.88 | 58.6 | 44.47 | 35.98 | 16.28 | 25.79 | 15.19 | 12.03 |
| 34.13 | 78.63 | 19.79 | 29.72 | 17.85 | 19.3 | 22 | 32.3 | 17.82 | 28.45 | 16.03 | 45.84 | 52.85 | 33.37 | 29.46 | 12.59 | 23.18 | 12.69 | 11.07 |
| 34.13 | 78.88 | 16.54 | 18.89 | 13.54 | 17.9 | 18.04 | 24.39 | 13.62 | 23.29 | 15.07 | 33.81 | 39.85 | 28.05 | 32.83 | 11.86 | 22.09 | 11.78 | 10.73 |
| 34.13 | 79.13 | 18.07 | 16.17 | 11.54 | 16.45 | 15.56 | 24.57 | 13.49 | 19.56 | 13.5 | 18.82 | 28.19 | 27.67 | 35.66 | 12.46 | 22.49 | 11.28 | 10.55 |
| 34.13 | 79.38 | 21.26 | 17.21 | 12.22 | 15.09 | 15.14 | 24.33 | 15.57 | 19.55 | 12.55 | 11.9 | 21.74 | 26.78 | 35.35 | 14.19 | 24.45 | 11.37 | 10.71 |
| 33.88 | 73.63 | 19.06 | 13.61 | 13.16 | 11.83 | 13.3 | 13.32 | 14.02 | 14.4 | 11.08 | 14.15 | 13.71 | 13.79 | 15.57 | 14.91 | 13.92 | 13.11 | 11.54 |
| 33.88 | 73.88 | 18.8 | 12.91 | 13.18 | 11.68 | 13.01 | 13.92 | 13.42 | 13.15 | 11.67 | 13.31 | 13.4 | 13.53 | 15.79 | 13.68 | 12.92 | 13.62 | 11.19 |
| 33.88 | 74.13 | 17.84 | 12.05 | 13.3 | 11.49 | 12.5 | 13.84 | 12.73 | 12.9 | 11.73 | 12.64 | 12.91 | 13.55 | 15.5 | 12.82 | 12.36 | 13.52 | 11.22 |
| 33.88 | 74.38 | 16.3 | 10.64 | 13.83 | 11.86 | 12.35 | 14.44 | 11.4 | 12.79 | 11.53 | 12.38 | 13.28 | 13.52 | 14.09 | 11.98 | 11.66 | 13.68 | 11.14 |
| 33.88 | 74.63 | 16.36 | 10.4 | 15.84 | 15.04 | 13.57 | 17.04 | 11.48 | 13.05 | 12.14 | 13.5 | 17.58 | 15.89 | 12.86 | 11.24 | 12.42 | 15.23 | 12.88 |
| 33.88 | 74.88 | 17.86 | 11.55 | 16.65 | 17.79 | 14.46 | 18.27 | 12.56 | 13.67 | 12.48 | 14.76 | 19.79 | 20.49 | 13.76 | 10.99 | 12.74 | 14.83 | 13.89 |
| 33.88 | 75.13 | 17.87 | 11.85 | 15.51 | 17.81 | 14.46 | 18.28 | 13.24 | 13.43 | 12.54 | 14.92 | 19.25 | 22.1 | 15.77 | 10.11 | 12.31 | 13.44 | 13.18 |
| 33.88 | 75.38 | 16.2 | 10.69 | 14.35 | 15.19 | 13.81 | 17.42 | 12.78 | 12.48 | 12.16 | 13.25 | 17.72 | 19.18 | 15.94 | 9.54 | 11.69 | 12.51 | 11.29 |
| 33.88 | 75.63 | 16.34 | 10.71 | 14.76 | 15.24 | 14.25 | 18.13 | 13.04 | 12.79 | 12.38 | 12.86 | 18.6 | 19.63 | 17.01 | 9.91 | 12.02 | 12.86 | 11.05 |
| 33.88 | 75.88 | 18.93 | 11.95 | 16.35 | 17.75 | 15.65 | 19.56 | 14.49 | 14.63 | 13.46 | 15.23 | 22.24 | 26.16 | 23.68 | 10.46 | 12.95 | 13.95 | 11.85 |
| 33.88 | 76.13 | 22.03 | 14.56 | 17.8 | 21.8 | 17.14 | 21.25 | 15.67 | 17.15 | 14.71 | 18.44 | 26.9 | 34.32 | 33.35 | 11.16 | 13.88 | 14.76 | 13.11 |
| 33.88 | 76.38 | 24.25 | 18.76 | 18.57 | 27.71 | 18.54 | 22.88 | 16.84 | 20.14 | 15.48 | 21.74 | 31.68 | 38.45 | 46.45 | 12.04 | 14.83 | 15.36 | 14.39 |
| 33.88 | 76.63 | 26.91 | 24.36 | 19.32 | 30.54 | 21.69 | 30.77 | 18.88 | 21.59 | 16.79 | 28.84 | 35.08 | 49.96 | 57.01 | 18.27 | 16.51 | 16.07 | 16.34 |
| 33.88 | 76.88 | 26.47 | 38.34 | 18 | 22.81 | 23.06 | 60.13 | 20.51 | 24.22 | 17.5 | 44.82 | 32.53 | 55.42 | 43.94 | 25.08 | 19 | 16.23 | 20.32 |
| 33.88 | 77.13 | 24.42 | 29.25 | 19.27 | 19.06 | 19.44 | 57.7 | 18.37 | 36.64 | 16.23 | 49.9 | 41.12 | 41.5 | 73.11 | 23.66 | 19.8 | 16.36 | 19.36 |
| 33.88 | 77.38 | 23.23 | 22.13 | 19.46 | 19 | 18.11 | 41.9 | 20.17 | 36.32 | 15.99 | 48.63 | 41.9 | 38.94 | 61.55 | 22.5 | 19.4 | 16.76 | 16.84 |

| Lattitude | Longitude | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Table date from the year 1988 to 2004 Continued* | | | | | | | | | | | | | | | | | | |
| 33.88 | 77.63 | 23.42 | 23.58 | 19.37 | 19.33 | 17.45 | 39.24 | 20.52 | 34.04 | 16.19 | 47.88 | 42.3 | 39.67 | 43.76 | 21.48 | 19.67 | 16.54 | 13.58 |
| 33.88 | 77.88 | 23.79 | 24.75 | 19.35 | 19.66 | 16.25 | 39.49 | 20.15 | 32.88 | 16.32 | 47.17 | 43.83 | 41.39 | 41.92 | 19.46 | 21.74 | 15.8 | 11.58 |
| 33.88 | 78.13 | 23.39 | 26.24 | 19.86 | 19.86 | 16.36 | 39.58 | 19.98 | 32.5 | 16.46 | 47.22 | 50.33 | 42.5 | 37.04 | 15.05 | 21.61 | 14.11 | 11.15 |
| 33.88 | 78.38 | 21.75 | 31.04 | 19.79 | 19.79 | 23.33 | 39.16 | 19.56 | 31.03 | 16.43 | 47.63 | 57.35 | 40.74 | 28.93 | 12 | 20.74 | 12.53 | 10.51 |
| 33.88 | 78.63 | 19.86 | 31.86 | 17.64 | 19.16 | 20.94 | 33.29 | 17.67 | 28.29 | 15.96 | 45.39 | 52.52 | 31.97 | 25.85 | 11.65 | 21.3 | 11.92 | 10.65 |
| 33.88 | 78.88 | 16.53 | 19.25 | 13.01 | 17.65 | 17.37 | 23.65 | 13.51 | 23.27 | 15.12 | 32.31 | 39.98 | 28.56 | 33.62 | 12.2 | 22.95 | 11.79 | 10.85 |
| 33.63 | 73.63 | 21.81 | 15.57 | 14.31 | 12.68 | 13.12 | 13.58 | 16.86 | 17.56 | 12.51 | 15.49 | 14.26 | 15.55 | 18.82 | 18.77 | 15.82 | 14.22 | 14.17 |
| 33.63 | 73.88 | 22.32 | 15.03 | 14.47 | 12.81 | 12.42 | 13.92 | 16.77 | 16.82 | 13.52 | 15.07 | 14.09 | 15.71 | 20.24 | 18.26 | 15.29 | 14.96 | 14.83 |
| 33.63 | 74.13 | 21.17 | 14.26 | 14.29 | 12.98 | 12.18 | 13.68 | 16.12 | 16.58 | 13.86 | 14.87 | 13.75 | 15.92 | 20.09 | 17.56 | 14.93 | 14.48 | 14.79 |
| 33.63 | 74.38 | 18.75 | 13.15 | 14.01 | 12.94 | 12.37 | 14.13 | 14.1 | 15.86 | 13.34 | 15.17 | 13.47 | 16.53 | 19.04 | 16.51 | 14.05 | 13.71 | 13.98 |
| 33.63 | 74.63 | 16.86 | 12.31 | 13.55 | 12.72 | 12.61 | 15.39 | 12.7 | 15 | 12.72 | 15.5 | 13.82 | 17.44 | 17.87 | 14.57 | 12.33 | 13.13 | 12.68 |
| 33.63 | 74.88 | 16.88 | 11.74 | 13.53 | 13.13 | 13.15 | 16.64 | 12.63 | 14.23 | 12.31 | 15.24 | 15.15 | 18.71 | 16.96 | 11.93 | 11.15 | 12.82 | 11.36 |
| 33.63 | 75.13 | 17.46 | 11.24 | 14.33 | 14.4 | 13.99 | 18.07 | 13.36 | 13.56 | 12.56 | 14.36 | 18.08 | 19.41 | 17.65 | 10.03 | 11.33 | 12.91 | 10.54 |
| 33.63 | 75.38 | 17.93 | 11.12 | 15.03 | 15.11 | 14.49 | 18.92 | 13.99 | 13.85 | 13.15 | 14.12 | 20.05 | 20.43 | 20.56 | 9.95 | 11.86 | 12.98 | 10.45 |
| 33.63 | 75.63 | 19.09 | 11.52 | 15.32 | 15.81 | 14.97 | 19.27 | 14.14 | 14.41 | 13.61 | 15.04 | 21 | 21.69 | 21.04 | 10.44 | 12.53 | 13.24 | 10.63 |
| 33.63 | 75.88 | 19.96 | 12.19 | 15.87 | 17.5 | 15.49 | 19.99 | 14.32 | 15.28 | 14.31 | 16.31 | 22.36 | 23.15 | 21.7 | 11.19 | 13.22 | 13.78 | 10.87 |
| 33.63 | 76.13 | 20.24 | 12.91 | 16.29 | 20.14 | 16.15 | 20.8 | 14.39 | 15.93 | 14.8 | 17.14 | 23.35 | 24.93 | 23.31 | 11.51 | 13.48 | 14.06 | 11.11 |
| 33.63 | 76.38 | 20.09 | 13.37 | 16.67 | 22.09 | 17 | 23 | 14.19 | 16.24 | 15.33 | 17.87 | 23.06 | 25.1 | 24.92 | 11.6 | 13.55 | 14.19 | 11.26 |
| 33.63 | 76.63 | 21.32 | 14.07 | 15.59 | 21.85 | 16.46 | 35.45 | 13.95 | 17.08 | 15.12 | 24.44 | 22.13 | 31.06 | 28.66 | 12.83 | 14.27 | 14.94 | 12.33 |
| 33.63 | 76.88 | 23 | 26.81 | 16.83 | 18.29 | 16.86 | 58.97 | 15.86 | 29.48 | 15.42 | 42.74 | 31.02 | 40.43 | 37.85 | 23.85 | 17.44 | 16.42 | 14.29 |
| 33.63 | 77.13 | 23.24 | 21.13 | 18.91 | 18.38 | 16.77 | 47.03 | 19.48 | 34.76 | 15.66 | 48.43 | 38.2 | 38.19 | 50.98 | 27.83 | 19.17 | 16.3 | 16.84 |
| 33.63 | 77.38 | 23.03 | 21.32 | 18.46 | 18.57 | 16.48 | 39.41 | 19.97 | 32.52 | 16.05 | 46.77 | 39.11 | 38.16 | 39.76 | 24.96 | 18.37 | 16.15 | 15.31 |
| 33.63 | 77.63 | 23.47 | 23.28 | 18.73 | 18.96 | 16.48 | 38.7 | 20.14 | 31.75 | 15.87 | 46 | 41.54 | 39.17 | 37.74 | 20.66 | 18.39 | 15.66 | 12.09 |
| 33.63 | 77.88 | 23.92 | 24.83 | 19.02 | 19.36 | 15.93 | 39.04 | 19.68 | 31.41 | 15.99 | 46.04 | 44.83 | 39.28 | 34.13 | 12.75 | 17.86 | 13.47 | 10.42 |
| 33.63 | 78.13 | 23.7 | 26.23 | 19.63 | 19.63 | 16.12 | 39.01 | 19.15 | 31.36 | 16.23 | 46.29 | 50.58 | 38.99 | 32.95 | 11.25 | 17.71 | 12.15 | 10.12 |
| 33.63 | 78.38 | 21.6 | 31.41 | 19.41 | 19.51 | 21.94 | 38.77 | 19.27 | 30.73 | 16.25 | 46.58 | 56.67 | 37.85 | 25.47 | 11.09 | 18.06 | 11.6 | 10.2 |
| 33.63 | 78.63 | 19.81 | 33.63 | 17.37 | 18.89 | 19.99 | 33.99 | 17.46 | 28.32 | 15.78 | 44.89 | 52.07 | 30.48 | 24.24 | 11.5 | 20.02 | 11.51 | 10.42 |
| 33.63 | 78.88 | 16.99 | 20.94 | 12.69 | 17.61 | 17.18 | 23.25 | 13.48 | 23.61 | 15.29 | 31.3 | 40.19 | 29.79 | 35.24 | 13.3 | 24.78 | 11.88 | 10.98 |
| 33.38 | 73.63 | 25.56 | 18.51 | 15.11 | 14.17 | 13.63 | 15.1 | 21.44 | 22.59 | 14.9 | 18.19 | 15.79 | 17.64 | 21.17 | 22.8 | 18.3 | 15.45 | 17.46 |
| 33.38 | 73.88 | 25.66 | 17.24 | 15.11 | 14.31 | 13.03 | 15.27 | 20.56 | 20.74 | 16.07 | 17.71 | 15.44 | 17.74 | 22.11 | 21.77 | 17.38 | 16.07 | 18.22 |
| 33.38 | 74.13 | 23.69 | 16.53 | 14.97 | 14.39 | 13.06 | 15.08 | 19.08 | 19.77 | 16.46 | 17.52 | 15.18 | 17.79 | 21.82 | 20.59 | 16.78 | 15.63 | 17.63 |
| 33.38 | 74.38 | 20.47 | 16.33 | 14.9 | 14.55 | 13.83 | 15.67 | 17.06 | 18.95 | 16.45 | 18.11 | 15.32 | 18.52 | 21.04 | 19.36 | 16.22 | 15.13 | 16.88 |
| 33.38 | 74.63 | 18.35 | 16.33 | 14.85 | 14.53 | 14.69 | 16.41 | 15.79 | 18.24 | 16.1 | 18.57 | 15.77 | 19.74 | 20.64 | 18.13 | 15.44 | 14.94 | 16.1 |
| 33.38 | 74.88 | 16.62 | 14.06 | 13.77 | 12.89 | 13.97 | 16.09 | 14.08 | 16.06 | 14.45 | 16.79 | 14.77 | 18.4 | 18.73 | 14.85 | 12.84 | 13.6 | 13.31 |
| 33.38 | 75.13 | 15.63 | 11.09 | 13.21 | 12.09 | 13.2 | 16.61 | 12.99 | 13.66 | 13.1 | 13.71 | 15.16 | 15.73 | 16.26 | 10.99 | 10.74 | 12.1 | 10.3 |
| 33.38 | 75.38 | 16.77 | 11.11 | 14.22 | 13.9 | 14.28 | 18.48 | 13.59 | 13.95 | 13.69 | 13.54 | 17.97 | 17.09 | 18.69 | 10.47 | 11.64 | 12.32 | 10.13 |
| 33.38 | 75.63 | 18.77 | 12.25 | 15.14 | 16.57 | 15.34 | 19.68 | 13.95 | 14.8 | 14.58 | 15.31 | 20.18 | 20.13 | 21 | 11.09 | 12.89 | 13 | 10.56 |
| 33.38 | 75.88 | 19.13 | 13.34 | 15.73 | 19.7 | 16.32 | 20.06 | 13.81 | 15.18 | 15.21 | 16.02 | 21.28 | 23.31 | 22.7 | 11.46 | 13.46 | 13.36 | 10.91 |
| 33.38 | 76.13 | 18.21 | 13.79 | 15.76 | 21.2 | 17.16 | 20.14 | 13.31 | 15.08 | 15.07 | 15.35 | 19.7 | 23.54 | 23.38 | 11.38 | 13.18 | 13.27 | 10.99 |
| 33.38 | 76.38 | 17.41 | 13.29 | 15.16 | 20.09 | 16.87 | 21.71 | 12.86 | 14.71 | 14.39 | 14.13 | 16.53 | 21.19 | 22.12 | 11.33 | 13.09 | 13.35 | 10.97 |
| 33.38 | 76.63 | 18.47 | 13.43 | 13.2 | 16.63 | 14.16 | 26.2 | 11.84 | 17.33 | 13.24 | 16.54 | 16.62 | 21.74 | 19.55 | 11.22 | 13.16 | 13.75 | 11.17 |
| 33.38 | 76.88 | 21.12 | 13.42 | 13.79 | 16.11 | 13.53 | 32.36 | 13.86 | 23.29 | 12.97 | 26.48 | 22.36 | 27.04 | 23.31 | 12.07 | 13.85 | 14.58 | 12.56 |
| 33.38 | 77.13 | 22.1 | 15 | 14.59 | 16.41 | 14.16 | 33.06 | 16.71 | 24.78 | 13.59 | 35.14 | 30.74 | 29.92 | 24.8 | 12.92 | 14.06 | 14.93 | 13.39 |
| 33.38 | 77.38 | 22.24 | 16.12 | 14.96 | 16.65 | 14.51 | 31.43 | 17.31 | 24.67 | 13.74 | 36.8 | 35.19 | 29.01 | 22.61 | 11.46 | 13.03 | 14.38 | 11.76 |
| 33.38 | 77.63 | 22.88 | 18.56 | 15.82 | 17.12 | 14.81 | 32.7 | 17.28 | 25.46 | 13.88 | 38.76 | 39.01 | 28.98 | 22.38 | 10.68 | 11.71 | 12.43 | 9.97 |
| 33.38 | 77.88 | 23.54 | 22.79 | 17.17 | 17.97 | 15.37 | 35.05 | 17.36 | 27.11 | 14.65 | 41.96 | 44.03 | 30.73 | 23.55 | 10.7 | 12.17 | 11.48 | 9.81 |
| 33.38 | 78.13 | 23.68 | 25.67 | 18.66 | 18.95 | 16.62 | 37.5 | 18.09 | 29.71 | 15.68 | 43.58 | 50.09 | 33.85 | 25.24 | 10.82 | 14.21 | 11.22 | 9.89 |
| 33.38 | 78.38 | 21.37 | 30.94 | 18.75 | 19.12 | 19.17 | 38.18 | 18.49 | 30.82 | 15.86 | 45.51 | 54.59 | 34.65 | 23.26 | 11.08 | 15.72 | 11.14 | 10.3 |
| 33.38 | 78.63 | 19.48 | 34.03 | 16.99 | 18.65 | 18.91 | 34.37 | 17.21 | 28.73 | 15.66 | 44.98 | 51.74 | 29.3 | 22.77 | 11.98 | 19.3 | 11.19 | 10.51 |
| 33.38 | 78.88 | 18.41 | 25.78 | 12.95 | 18.3 | 17.57 | 23.6 | 14.08 | 25.05 | 16.03 | 32.29 | 39.54 | 32.52 | 37.39 | 17.21 | 29.51 | 13.22 | 12.39 |
| 33.13 | 73.88 | 27.54 | 19.95 | 15.05 | 15.83 | 14.94 | 17.71 | 25.35 | 27.62 | 17.96 | 21.47 | 17.62 | 18.85 | 21.02 | 21.34 | 19.17 | 16.45 | 20.52 |
| 33.13 | 74.13 | 24.46 | 20.09 | 15.51 | 15.73 | 15.69 | 17.22 | 23.27 | 25.01 | 20.63 | 21.14 | 17.05 | 18.43 | 20.55 | 21.21 | 18.84 | 16.92 | 19.43 |
| 33.13 | 74.38 | 21.4 | 21.05 | 16.15 | 15.77 | 16.92 | 17.72 | 21.72 | 23.46 | 22.31 | 21.02 | 17.06 | 19.11 | 20.57 | 21.04 | 18.05 | 17.55 | 18.6 |
| 33.13 | 74.63 | 19.69 | 21.4 | 16.8 | 16.11 | 18.02 | 18.37 | 20.64 | 22.25 | 22.58 | 21.17 | 17.58 | 20.81 | 20.97 | 20.45 | 18.04 | 18.33 | 18.37 |
| 33.13 | 74.88 | 18.12 | 19.23 | 15.72 | 14.55 | 17.01 | 17.55 | 18.32 | 19.87 | 20.39 | 19.46 | 16.36 | 19.86 | 19.74 | 17.98 | 15.71 | 17.45 | 16.08 |
| 33.13 | 75.13 | 16.2 | 15.1 | 13.71 | 12.32 | 14.54 | 16.73 | 15 | 16.43 | 16.65 | 15.82 | 14.3 | 16.42 | 16.85 | 14.35 | 11.69 | 14.98 | 12.38 |
| 33.13 | 75.38 | 15.94 | 13.22 | 13.29 | 12.48 | 14.31 | 17.81 | 13.76 | 14.78 | 15.08 | 14.15 | 14.52 | 15.55 | 16.71 | 13.39 | 10.95 | 13.75 | 11.19 |
| 33.13 | 75.63 | 16.5 | 13.34 | 13.94 | 15.21 | 15.91 | 18.25 | 13.58 | 14.07 | 15.23 | 14.07 | 15.99 | 18.3 | 19.62 | 13.16 | 11.92 | 13.06 | 11.23 |

| Lattitude | Longitude | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Table date from the year 1988 to 2004 Continued* | | | | | | | | | | | | | | | | | | |
| 33.13 | 75.88 | 16.53 | 13.64 | 15.17 | 17.62 | 16.71 | 17.77 | 13.48 | 14.48 | 15.42 | 13.88 | 16.9 | 23.71 | 23.88 | 12.57 | 12.58 | 12.59 | 11.56 |
| 33.13 | 76.13 | 16.15 | 15.21 | 14.98 | 17.54 | 16.3 | 17.34 | 14.25 | 15.25 | 14.76 | 12.66 | 15.13 | 22.64 | 22.85 | 11.99 | 11.9 | 12.41 | 11.13 |
| 33.13 | 76.38 | 15.96 | 15.59 | 13.5 | 15.68 | 15.17 | 17.78 | 14.44 | 15.6 | 13.41 | 11.83 | 13.75 | 20.82 | 18.9 | 11.65 | 11.54 | 12.22 | 10.76 |
| 33.13 | 76.63 | 17.09 | 13.7 | 12.41 | 15.16 | 13.41 | 20.07 | 12.59 | 16.04 | 12.3 | 12.63 | 14.91 | 21.09 | 16.18 | 11.27 | 12.2 | 12.44 | 10.89 |
| 33.13 | 76.88 | 19.76 | 11.68 | 12.66 | 15.43 | 12.9 | 21.86 | 12.08 | 17.6 | 11.98 | 16.7 | 18.9 | 22.97 | 15.53 | 11.43 | 13.21 | 13.07 | 11.68 |
| 33.13 | 77.13 | 20.38 | 11.67 | 12.64 | 15.28 | 13.17 | 22.12 | 13.34 | 18.44 | 11.74 | 22.13 | 24.36 | 23.25 | 15.31 | 11.08 | 12.61 | 13.16 | 11.19 |
| 33.13 | 77.38 | 20.18 | 12.21 | 12.63 | 14.98 | 13.48 | 22.18 | 14 | 18.8 | 11.86 | 25.15 | 28.85 | 23.78 | 15.47 | 10.42 | 11.18 | 12.17 | 10.11 |
| 33.13 | 77.63 | 20.47 | 12.88 | 13.09 | 15.23 | 13.71 | 22.65 | 14.05 | 19.11 | 11.91 | 26.69 | 32.71 | 25.57 | 16.72 | 10.41 | 10.49 | 10.96 | 9.97 |
| 33.13 | 77.88 | 21.22 | 14.07 | 13.95 | 16.18 | 14.33 | 24.82 | 14.05 | 19.72 | 12.17 | 28.78 | 37.13 | 26.47 | 19.65 | 10.45 | 10.53 | 10.68 | 10.09 |
| 33.13 | 78.13 | 21.27 | 15.51 | 14.5 | 16.62 | 15.67 | 26.95 | 13.91 | 21.32 | 12.8 | 30.78 | 39.73 | 27.22 | 21.05 | 10.52 | 10.72 | 10.63 | 10.17 |
| 33.13 | 78.38 | 19.05 | 17.3 | 13.96 | 16.67 | 15.02 | 27.65 | 13.86 | 22.18 | 12.86 | 31.02 | 42.35 | 26.41 | 21.45 | 10.57 | 10.81 | 10.62 | 10.23 |
| 33.13 | 78.63 | 17.09 | 19.16 | 13.12 | 16.57 | 14.46 | 26.57 | 13.11 | 22.07 | 13.01 | 30.92 | 42.41 | 22.43 | 20.5 | 10.78 | 12.06 | 10.59 | 10.01 |
| 33.13 | 78.88 | 18.45 | 25.83 | 13.13 | 18.15 | 17.15 | 22.73 | 14.2 | 24.85 | 15.76 | 27.32 | 32.69 | 33.4 | 35.38 | 19.23 | 28.84 | 14.05 | 12.1 |
| 33.13 | 79.13 | 23.76 | 30.68 | 16.12 | 20.16 | 18.84 | 23.62 | 20.55 | 27.32 | 16.08 | 18.12 | 30.65 | 39.2 | 44.2 | 24.93 | 37.28 | 20.06 | 16.03 |
| 33.13 | 79.38 | 30.56 | 32 | 18.99 | 24.04 | 21.66 | 28.86 | 26.53 | 30.08 | 17.35 | 15.47 | 28.68 | 40.78 | 48.96 | 25.5 | 39.22 | 23.89 | 17.95 |
| 32.88 | 74.38 | 22.06 | 26.16 | 17.84 | 16.88 | 21.23 | 21.02 | 27.05 | 28.02 | 28.91 | 22.94 | 18.6 | 18.71 | 19.81 | 23.32 | 18.99 | 20.98 | 18.78 |
| 32.88 | 74.63 | 20.68 | 28.5 | 17.99 | 16.55 | 20.45 | 21.22 | 26.89 | 27.29 | 30.55 | 22.07 | 18.82 | 20.52 | 19.84 | 23.19 | 19.02 | 21.72 | 18.67 |
| 32.88 | 74.88 | 19.29 | 26.79 | 16.99 | 15.35 | 18.31 | 19.76 | 24.81 | 24.88 | 28.75 | 20.34 | 17.85 | 20.43 | 19.14 | 20.77 | 17.23 | 20.91 | 17.07 |
| 32.88 | 75.13 | 17.64 | 21.56 | 15.22 | 13.81 | 15.95 | 17.9 | 20.8 | 20.72 | 23.42 | 17.73 | 15.99 | 18.21 | 17.49 | 18.01 | 13.92 | 18.94 | 14.79 |
| 32.88 | 75.38 | 16.56 | 17.2 | 13.66 | 12.68 | 14.81 | 16.81 | 17.71 | 16.82 | 18.9 | 15.53 | 14.65 | 16.56 | 16.34 | 16.55 | 11.83 | 17.26 | 13.25 |
| 32.88 | 75.63 | 15.9 | 15.79 | 12.85 | 12.87 | 14.5 | 15.87 | 15.9 | 13.85 | 15.88 | 13.62 | 13.79 | 16.88 | 15.95 | 15.6 | 10.49 | 15.14 | 11.93 |
| 32.88 | 75.88 | 15.82 | 16.44 | 13.16 | 14.49 | 14.62 | 14.63 | 16.06 | 14.41 | 14.91 | 13.34 | 14.14 | 19.64 | 17.42 | 15.35 | 10.25 | 13.82 | 11.63 |
| 32.88 | 76.13 | 16.61 | 20.71 | 12.5 | 15.47 | 15.1 | 14.44 | 17.86 | 15.92 | 13.9 | 13.69 | 14.95 | 19.45 | 16.55 | 15.82 | 11.34 | 14.4 | 12.25 |
| 32.88 | 76.38 | 16.73 | 18.89 | 12.11 | 16.69 | 14.92 | 14.99 | 17.43 | 16.03 | 13.54 | 13.44 | 14.46 | 19.89 | 16.17 | 15.88 | 12.16 | 14.09 | 12.34 |
| 32.88 | 76.63 | 15.92 | 13.55 | 11.52 | 15.36 | 13.13 | 17.41 | 13.94 | 14.7 | 12.85 | 12.58 | 13.06 | 18.14 | 13.35 | 13.74 | 10.51 | 11.9 | 10.16 |
| 32.88 | 76.88 | 18.71 | 11.59 | 12.52 | 15.11 | 12.88 | 19.89 | 11.87 | 15.47 | 12.03 | 14.43 | 17.29 | 20.15 | 14.87 | 12.94 | 11.94 | 11.62 | 11.73 |
| 32.88 | 77.13 | 19.85 | 11.47 | 12.63 | 14.93 | 13.12 | 20.51 | 12.15 | 16.53 | 11.65 | 18.79 | 22.15 | 21.32 | 14.84 | 12.49 | 11.88 | 11.71 | 11.66 |
| 32.88 | 77.38 | 19.52 | 12.06 | 12.29 | 13.93 | 13.35 | 19.55 | 12.2 | 16.75 | 11.87 | 21.66 | 26.36 | 20.47 | 14.6 | 10.7 | 10.59 | 10.87 | 10.18 |
| 32.88 | 77.63 | 19.31 | 12.42 | 12.32 | 13.57 | 13.48 | 18.92 | 11.88 | 16.45 | 11.77 | 22.26 | 28.53 | 20.04 | 14.63 | 10.24 | 10.38 | 10.41 | 9.95 |
| 32.88 | 77.88 | 19.18 | 12.55 | 12.56 | 13.52 | 13.96 | 19.23 | 11.47 | 16.29 | 11.54 | 21.28 | 28.83 | 20.08 | 15.08 | 10.3 | 10.49 | 10.42 | 10.04 |
| 32.88 | 78.13 | 18.88 | 12.63 | 12.72 | 13.73 | 14.71 | 20.04 | 11.45 | 16.59 | 11.44 | 20.45 | 29.23 | 19.92 | 16.14 | 10.44 | 10.66 | 10.56 | 10.23 |
| 32.88 | 78.38 | 17.34 | 13.03 | 12.46 | 13.91 | 14.15 | 20.58 | 11.74 | 17.08 | 11.32 | 20.24 | 29.81 | 19.23 | 16.8 | 10.54 | 10.76 | 10.69 | 10.37 |
| 32.88 | 78.63 | 15.54 | 13.31 | 12.02 | 13.7 | 13.97 | 19.71 | 11.49 | 17.18 | 11.31 | 19.46 | 27.32 | 17.58 | 16.33 | 10.59 | 11.19 | 10.64 | 10.2 |
| 32.88 | 78.88 | 16.11 | 15.1 | 13.29 | 13.82 | 18.47 | 18.41 | 12.72 | 19.02 | 12 | 15.51 | 19.86 | 26.43 | 27.77 | 15.55 | 20.67 | 11.51 | 11.17 |
| 32.88 | 79.13 | 23.47 | 19.78 | 16.64 | 16.21 | 19.95 | 23.42 | 18.38 | 23.41 | 13.24 | 13.55 | 22.33 | 36.47 | 41.07 | 21.01 | 30.17 | 14.43 | 13.24 |
| 32.88 | 79.38 | 30.23 | 22.49 | 18.36 | 19.27 | 20.91 | 32.34 | 22.79 | 27.37 | 15.01 | 13.65 | 22.7 | 37.92 | 44.75 | 23.04 | 34.34 | 17.58 | 14.39 |
| 32.63 | 74.88 | 20.47 | 32.68 | 17.17 | 15.4 | 18.38 | 22.68 | 28.77 | 28.37 | 33.2 | 20.26 | 18.53 | 19.98 | 18.34 | 24.08 | 17.08 | 21.96 | 17.03 |
| 32.63 | 75.13 | 19.17 | 25 | 16.29 | 15.14 | 17.24 | 20.71 | 25.39 | 23.64 | 27.74 | 18.82 | 18.02 | 19.12 | 17.79 | 20.8 | 16.04 | 20.39 | 16.13 |
| 32.63 | 75.38 | 18.92 | 19.45 | 15.36 | 15.26 | 17.06 | 20.09 | 22.83 | 19.73 | 22.61 | 17.55 | 18.03 | 18.75 | 17.4 | 19.78 | 15.14 | 19.25 | 15.5 |
| 32.63 | 75.63 | 18.81 | 17.98 | 14.24 | 15.29 | 16.82 | 18.93 | 21.11 | 17.82 | 18.99 | 16.03 | 18 | 19.41 | 16.5 | 19.52 | 13.78 | 17.9 | 14.49 |
| 32.63 | 75.88 | 18.24 | 20.59 | 13.69 | 15.54 | 16.59 | 16.55 | 20.39 | 17.87 | 16.66 | 14.96 | 17.89 | 19.94 | 16.21 | 19.4 | 13.59 | 16.95 | 14.28 |
| 32.63 | 76.13 | 18.97 | 22.09 | 14.32 | 17.12 | 17.82 | 16.64 | 21.01 | 19.55 | 16.79 | 14.94 | 18.38 | 21.76 | 18.08 | 20.16 | 16.27 | 17.83 | 16.12 |
| 32.63 | 76.38 | 19.75 | 21.65 | 15.06 | 19.29 | 18.21 | 17.42 | 20.76 | 20.25 | 16.92 | 14.76 | 17.81 | 23.64 | 20.08 | 20.46 | 17.81 | 18.1 | 17.07 |
| 32.63 | 76.63 | 16.88 | 16.62 | 12.91 | 16.65 | 14.82 | 16.08 | 16.84 | 16.55 | 14.15 | 13.05 | 14.32 | 21.14 | 16.43 | 17.14 | 13.61 | 14.07 | 12.69 |
| 32.63 | 76.88 | 16.44 | 11.26 | 12.14 | 14.78 | 12.77 | 18.5 | 12.08 | 13.97 | 11.97 | 13.65 | 14.48 | 16.6 | 12.43 | 14.6 | 11.02 | 10.73 | 11.51 |
| 32.63 | 77.13 | 17.76 | 11.14 | 12.38 | 14.35 | 13.1 | 19.97 | 11.83 | 15.97 | 11.52 | 18.26 | 21.83 | 19.51 | 14.16 | 13.85 | 11.6 | 11.45 | 13.41 |
| 32.63 | 77.38 | 18.28 | 12.38 | 11.93 | 13.27 | 13.4 | 18.9 | 11.46 | 16.47 | 11.73 | 20.58 | 26.24 | 19.13 | 14.49 | 11.82 | 11.62 | 10.7 | 10.87 |
| 32.63 | 77.63 | 19.25 | 12.56 | 12.29 | 12.89 | 13.68 | 17.75 | 10.95 | 15.27 | 11.61 | 18.97 | 25.81 | 18.8 | 14.14 | 10.52 | 11.28 | 10.51 | 10.05 |
| 32.63 | 77.88 | 19.33 | 12.48 | 12.65 | 12.77 | 14.02 | 17.64 | 10.79 | 14.74 | 11.43 | 17.6 | 23.58 | 18.58 | 14.1 | 10.48 | 11.02 | 10.48 | 10.05 |
| 32.63 | 78.13 | 19.19 | 12.19 | 13.22 | 12.94 | 14.46 | 18.19 | 11.06 | 14.56 | 11.12 | 16.8 | 21.93 | 18.24 | 14.67 | 10.45 | 11.09 | 10.55 | 10.1 |
| 32.63 | 78.38 | 18.38 | 11.9 | 14.73 | 13.68 | 14.87 | 19.43 | 12.11 | 14.83 | 10.84 | 16.78 | 22.35 | 19.29 | 16.25 | 10.49 | 11.42 | 10.77 | 10.31 |
| 32.63 | 78.63 | 15.93 | 11.68 | 17.7 | 14.16 | 15.49 | 16.87 | 12.77 | 13.53 | 10.65 | 14 | 17.58 | 17.29 | 15.9 | 10.87 | 11.3 | 11.33 | 10.9 |
| 32.63 | 78.88 | 12.77 | 14.23 | 20.03 | 14.44 | 18.52 | 13.79 | 12.51 | 10.99 | 11.65 | 10.6 | 13.95 | 13.3 | 17.06 | 12.18 | 12.25 | 11.95 | 11.78 |
| 32.63 | 79.13 | 20.58 | 17.53 | 18.28 | 14.69 | 21.56 | 22.69 | 16.69 | 19.34 | 13.14 | 12.4 | 18.82 | 34.65 | 35.26 | 18.23 | 23.87 | 12.18 | 12.92 |
| 32.63 | 79.38 | 25.25 | 19.22 | 17.67 | 16.03 | 20.82 | 27.58 | 19.86 | 23.72 | 14.01 | 12.44 | 20.18 | 37.37 | 40.77 | 21.01 | 29.25 | 13.82 | 13.51 |
| 32.38 | 75.38 | 21.93 | 19.59 | 16.97 | 18.11 | 19.29 | 26.92 | 25.62 | 22.42 | 23.55 | 20.12 | 21.12 | 21.02 | 18.92 | 25.22 | 18.01 | 20.02 | 17.37 |
| 32.38 | 75.88 | 21.04 | 21.3 | 16.18 | 19.6 | 19.67 | 21.04 | 23.56 | 21.82 | 20.92 | 17.43 | 19.96 | 22.82 | 17.82 | 22.68 | 18.3 | 18.79 | 17.42 |
| 32.38 | 76.13 | 20.88 | 22.85 | 16.34 | 20.75 | 20.18 | 18.87 | 22.72 | 22.95 | 19.5 | 16.54 | 20.02 | 23.65 | 19.35 | 22.22 | 19.85 | 19.46 | 18.81 |

| Lattitude | Longitude | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Table date from the year 1988 to 2004 Continued* | | | | | | | | | | | | | | | | | | |
| 32.38 | 76.38 | 21.63 | 23.57 | 17.13 | 22.44 | 19.95 | 18.71 | 22.55 | 23.4 | 18.96 | 15.94 | 19.38 | 24.91 | 21.2 | 22.4 | 20.88 | 20.03 | 19.8 |
| 32.38 | 76.63 | 19.12 | 20.81 | 15.61 | 20.5 | 17.62 | 17.42 | 20.25 | 20.26 | 17.7 | 14.29 | 16.99 | 24.32 | 19.61 | 20.26 | 18.31 | 17.46 | 17.19 |
| 32.38 | 76.88 | 15.7 | 13.36 | 12.61 | 14.72 | 13.71 | 15.38 | 14.6 | 14.43 | 13.79 | 12.76 | 13.24 | 19.29 | 13.75 | 14.72 | 11.46 | 11.66 | 11.12 |
| 32.38 | 77.13 | 18.24 | 11.45 | 12.64 | 12.9 | 13.03 | 16.85 | 11.17 | 13.67 | 11.08 | 14.75 | 16.34 | 16.87 | 12.27 | 13.37 | 11.66 | 10.57 | 10.93 |
| 32.38 | 77.38 | 19.15 | 12.43 | 12.49 | 12.53 | 13.63 | 17.05 | 10.67 | 14.05 | 11.24 | 16.15 | 19.74 | 18.71 | 13.22 | 12.16 | 12.49 | 10.78 | 10.58 |
| 32.38 | 77.63 | 19.49 | 12.51 | 12.77 | 12.44 | 13.79 | 16.5 | 10.61 | 13.74 | 11.27 | 15.51 | 19.01 | 18.19 | 13.29 | 11.45 | 12.55 | 10.87 | 10.4 |
| 32.38 | 77.88 | 18.88 | 12.36 | 13.16 | 12.21 | 13.86 | 16.18 | 10.82 | 13.3 | 11.17 | 14.51 | 16.56 | 17.06 | 13.16 | 11.01 | 11.93 | 10.65 | 10.17 |
| 32.38 | 78.13 | 18.18 | 11.99 | 14.48 | 12.12 | 14.34 | 16.33 | 11.41 | 12.92 | 10.96 | 13.71 | 15.09 | 16.47 | 13.76 | 10.65 | 11.81 | 10.46 | 9.94 |
| 32.38 | 78.38 | 18.01 | 12.41 | 20.62 | 14.16 | 16.06 | 17.44 | 12.92 | 12.54 | 10.79 | 13.29 | 16.1 | 18.24 | 17.71 | 10.57 | 11.61 | 10.91 | 10.34 |
| 32.13 | 75.88 | 22.42 | 21.34 | 17.66 | 22.01 | 20.98 | 26.01 | 25.13 | 23.94 | 23.19 | 18.62 | 19.4 | 24.85 | 18.05 | 24.4 | 20.52 | 19.19 | 18.74 |
| 32.13 | 76.13 | 21.96 | 23.72 | 17.53 | 23.44 | 21.75 | 20.57 | 23.77 | 25.26 | 21.78 | 17.01 | 19.96 | 25.29 | 19.63 | 23.63 | 21.78 | 20.33 | 20.35 |
| 32.13 | 76.38 | 21.5 | 24.48 | 17.34 | 23.62 | 20.88 | 18.23 | 23.13 | 25.17 | 22.03 | 15.51 | 18.98 | 25.45 | 20.36 | 22.89 | 21.59 | 20.41 | 20.58 |
| 32.13 | 76.63 | 19.7 | 23.18 | 16.83 | 21.77 | 20.86 | 17.69 | 22.71 | 24.16 | 23.62 | 14.54 | 17.99 | 26.23 | 19.94 | 21.32 | 20.08 | 19.38 | 19.6 |
| 32.13 | 76.88 | 16.61 | 17.42 | 14.27 | 16.62 | 18.43 | 16.87 | 18.64 | 17.81 | 20.2 | 12.53 | 15.23 | 24.39 | 16.44 | 16.34 | 14.22 | 14.91 | 14.93 |
| 32.13 | 77.13 | 18.15 | 12.28 | 13.62 | 13.19 | 14.21 | 16.87 | 12.8 | 14.01 | 12.49 | 11.77 | 13.69 | 19 | 12.7 | 12.88 | 12.2 | 11.18 | 11.23 |
| 32.13 | 77.38 | 19.38 | 12.24 | 13.68 | 12.73 | 14.42 | 16.3 | 11.92 | 13.69 | 11.35 | 13.25 | 14.6 | 19.39 | 12.84 | 12.82 | 13.01 | 11.32 | 10.89 |
| 32.13 | 77.63 | 17.32 | 13.16 | 13.39 | 12.81 | 14.35 | 15.8 | 12.31 | 13.53 | 12.3 | 14.12 | 14.21 | 19.07 | 13.21 | 13.47 | 12.93 | 11.85 | 11.59 |
| 32.13 | 77.88 | 15.92 | 13.04 | 14.11 | 12.42 | 14.21 | 15.37 | 12.45 | 13.43 | 12.46 | 13.85 | 13.59 | 18.11 | 13.58 | 13.06 | 12.52 | 11.91 | 11.48 |
| 32.13 | 78.13 | 15.6 | 12.45 | 17.23 | 11.76 | 14.53 | 14.95 | 12.3 | 12.19 | 11.32 | 12.36 | 12.77 | 15.47 | 14.45 | 11.58 | 12.34 | 10.83 | 10.27 |
| 32.13 | 78.38 | 15.78 | 14.05 | 24.95 | 15.01 | 16.82 | 16.53 | 13.45 | 11.91 | 11.31 | 11.95 | 14.2 | 15.06 | 18.94 | 11.16 | 12.07 | 11.38 | 10.73 |
| 31.88 | 76.13 | 22.36 | 22.44 | 18.62 | 22.98 | 22.42 | 23.43 | 25.19 | 25.64 | 22.59 | 17.45 | 19.95 | 25.88 | 19.49 | 23.75 | 21.83 | 20.65 | 20.87 |
| 31.88 | 76.38 | 20.81 | 22.5 | 17.27 | 22.4 | 22.89 | 19.58 | 25.07 | 27.33 | 25.03 | 14.25 | 18.62 | 25.03 | 18.44 | 22.22 | 20.29 | 19.72 | 20 |
| 31.88 | 76.63 | 19.8 | 23.71 | 16.83 | 20.51 | 25.36 | 18.61 | 25.51 | 29.21 | 27.92 | 13.48 | 18.21 | 26.59 | 19.04 | 20.75 | 19.02 | 19.45 | 19.84 |
| 31.88 | 76.88 | 19.06 | 22.29 | 15.56 | 17.26 | 24.79 | 19.09 | 22.15 | 23.48 | 25.34 | 12.8 | 16.95 | 26.4 | 19.36 | 18.76 | 15.73 | 17.89 | 17.88 |
| 31.88 | 77.13 | 16.49 | 15.57 | 13.02 | 12.63 | 17.42 | 18.49 | 14.86 | 14.86 | 15.91 | 11.95 | 13.08 | 21.56 | 16.66 | 16.15 | 11.4 | 13.96 | 13.51 |
| 31.88 | 77.38 | 15.18 | 13.45 | 12.9 | 12.83 | 15.22 | 16.38 | 13.55 | 13.85 | 12.95 | 13.02 | 12.58 | 20.42 | 15.1 | 15.57 | 12.86 | 12.88 | 12.77 |
| 31.88 | 77.63 | 15.34 | 14.96 | 14.64 | 14.77 | 15.75 | 16.57 | 14.97 | 15.54 | 14.84 | 15.22 | 14.25 | 20.99 | 16.44 | 16.81 | 14.07 | 14.83 | 14.61 |
| 31.88 | 77.88 | 14.7 | 13.83 | 15.85 | 13.57 | 14.98 | 15.7 | 13.99 | 14.86 | 14 | 14.59 | 14.01 | 19.66 | 15.93 | 15.66 | 14.27 | 13.9 | 13.48 |
| 31.88 | 78.13 | 13.93 | 13.08 | 20.95 | 12.29 | 15.02 | 14.52 | 12.99 | 11.99 | 11.55 | 11.7 | 12.37 | 14.22 | 16.13 | 12.6 | 13.06 | 11.56 | 11.08 |
| 31.88 | 78.38 | 14.89 | 15.25 | 26.9 | 16.22 | 17.77 | 16.59 | 13.94 | 12.01 | 11.85 | 11.62 | 13.87 | 13.96 | 20.16 | 12.06 | 13.08 | 12.97 | 12.12 |
| 31.88 | 78.63 | 15.38 | 16.28 | 28.19 | 17.27 | 19.78 | 17.11 | 14.8 | 12.38 | 12.62 | 12.05 | 14.06 | 16.18 | 20.79 | 11.93 | 12.8 | 13.05 | 12.11 |
| 31.63 | 76.13 | 23.8 | 20.95 | 19.12 | 22.73 | 22.33 | 28.88 | 28.54 | 25.89 | 21.16 | 18.04 | 19.95 | 26.19 | 19.71 | 23.71 | 20.97 | 20.62 | 20.79 |
| 31.63 | 76.38 | 22.64 | 19.97 | 18.27 | 21.91 | 24.65 | 26.79 | 29.78 | 28.51 | 23.27 | 14.33 | 18.77 | 25.04 | 17.93 | 21.87 | 18.64 | 19.83 | 20.34 |
| 31.63 | 76.63 | 21.75 | 23.69 | 17.41 | 19.85 | 28.56 | 22.57 | 27.77 | 31.15 | 26 | 13.12 | 17.53 | 24.4 | 18.45 | 20.79 | 17.2 | 19.97 | 20.46 |
| 31.63 | 76.88 | 22.74 | 24.91 | 16.62 | 18.22 | 26.22 | 20.94 | 22.58 | 24.76 | 22.81 | 13.66 | 16.7 | 24.03 | 20.48 | 20.48 | 15.62 | 19.62 | 18.92 |
| 31.63 | 77.13 | 19.47 | 18.82 | 14.01 | 13.98 | 18.39 | 18.75 | 16.47 | 17.5 | 15.54 | 13.28 | 13.48 | 20.26 | 18.96 | 18.72 | 11.97 | 16.25 | 15.61 |
| 31.63 | 77.38 | 16.03 | 14.84 | 12.99 | 12.93 | 15.49 | 16.09 | 14.87 | 15.74 | 13.5 | 13.25 | 12.57 | 19.52 | 17.42 | 17.31 | 12.58 | 14.13 | 14.13 |
| 31.63 | 77.63 | 16.18 | 15.15 | 14.62 | 15.08 | 16.18 | 16.06 | 15.84 | 16.73 | 15.43 | 15.13 | 14.33 | 20.36 | 17.43 | 17.65 | 14.68 | 15.38 | 15.15 |
| 31.63 | 77.88 | 14.56 | 13.32 | 15.46 | 13.18 | 14.67 | 15.05 | 14.03 | 14.69 | 13.72 | 13.97 | 13.34 | 18.57 | 16.05 | 16.12 | 14.97 | 13.68 | 13.32 |
| 31.63 | 78.13 | 14.06 | 13.94 | 21.62 | 13.39 | 16.17 | 15.33 | 13.32 | 11.9 | 11.66 | 11.29 | 12.43 | 13.3 | 17.88 | 13.2 | 14.34 | 13.63 | 12.26 |
| 31.63 | 78.38 | 15.09 | 15.63 | 25.44 | 16.4 | 19.31 | 17.38 | 14.61 | 12.31 | 12.79 | 11.89 | 13.68 | 14.63 | 20.81 | 13.46 | 15.19 | 15.07 | 12.7 |
| 31.63 | 78.63 | 15.05 | 16.01 | 25.96 | 15.84 | 19.98 | 17.29 | 14.96 | 12.5 | 13.16 | 12.27 | 13.63 | 15.39 | 21.19 | 12.86 | 14.24 | 14.39 | 12.43 |
| 31.38 | 76.63 | 22.5 | 21.08 | 17.48 | 18.22 | 24.33 | 25.66 | 27.39 | 25.49 | 18.25 | 14.61 | 14.77 | 21.57 | 18.22 | 19.16 | 14.74 | 19.33 | 20.22 |
| 31.38 | 76.88 | 22.15 | 22.17 | 15.81 | 16.29 | 22.35 | 20.71 | 23.95 | 22.66 | 15.36 | 13.4 | 13.33 | 19.87 | 18.75 | 19.39 | 13.07 | 18.44 | 17.64 |
| 31.38 | 77.13 | 20.17 | 19.39 | 13.63 | 13.87 | 17.74 | 19.09 | 19.12 | 18.8 | 13.32 | 12.93 | 12.44 | 19.22 | 19.32 | 19.29 | 11.74 | 16.42 | 15.67 |
| 31.38 | 77.38 | 17.35 | 15.5 | 12.71 | 12.72 | 15.36 | 16.24 | 16.45 | 16.43 | 12.79 | 12.97 | 12.17 | 19.23 | 19.42 | 17.77 | 13.07 | 14.07 | 14.2 |
| 31.38 | 77.63 | 15.76 | 13.87 | 12.94 | 13.68 | 15.07 | 14.32 | 15.66 | 15.38 | 13.63 | 13.67 | 12.58 | 18.31 | 17.42 | 16.84 | 13.96 | 13.88 | 13.67 |
| 31.38 | 77.88 | 14.16 | 12.66 | 13.37 | 11.96 | 13.76 | 13.79 | 13.71 | 13.57 | 12.41 | 12.66 | 11.79 | 16.67 | 15.8 | 15.4 | 13.62 | 12.89 | 12.6 |
| 31.38 | 78.13 | 13.93 | 13.67 | 17.8 | 12.7 | 15.99 | 15.17 | 13.06 | 12.04 | 11.94 | 11.08 | 12.32 | 14.1 | 19 | 14.22 | 15.47 | 15.5 | 13.16 |
| 31.38 | 78.38 | 14.62 | 14.93 | 21.15 | 14.77 | 18.68 | 16.9 | 14.77 | 13.53 | 13.28 | 12.1 | 12.98 | 13.89 | 21.32 | 14.65 | 17.11 | 16.45 | 13.29 |
| 31.38 | 78.63 | 13.94 | 14.63 | 19.48 | 13.33 | 17.84 | 16.02 | 14.85 | 15.04 | 12.61 | 12.3 | 12.44 | 13.81 | 22.02 | 14.08 | 15.21 | 15.45 | 13.14 |
| 31.38 | 79.13 | 13.1 | 12.11 | 12.61 | 10.34 | 14.31 | 13.14 | 13.59 | 13.27 | 12.08 | 10.01 | 11.75 | 13.4 | 13.68 | 12.27 | 12.7 | 11.38 | 10.66 |
| 31.13 | 76.63 | 23.4 | 20.32 | 19.47 | 19.23 | 24.59 | 29.02 | 27.98 | 27.4 | 18.23 | 18.24 | 15.01 | 22.84 | 21.71 | 19.44 | 15.01 | 20.38 | 22.5 |
| 31.13 | 76.88 | 22.25 | 21.37 | 16.77 | 15.76 | 20.88 | 24.34 | 27.16 | 25.3 | 15.8 | 14.41 | 13.13 | 20.76 | 20.9 | 20.05 | 14.33 | 19.45 | 19.56 |
| 31.13 | 77.13 | 22.29 | 20.26 | 14.16 | 14.67 | 17.74 | 20.69 | 22.1 | 21.41 | 13.95 | 13.07 | 12.25 | 19.79 | 20.78 | 20.26 | 13.03 | 17.69 | 16.97 |
| 31.13 | 77.38 | 19.27 | 16.92 | 12.32 | 14.27 | 15.73 | 16.39 | 18.4 | 17.79 | 12.9 | 13.6 | 11.96 | 19.33 | 20.27 | 18.45 | 13.55 | 14.88 | 14.68 |
| 31.13 | 77.63 | 15.92 | 13.93 | 11.7 | 12.78 | 13.96 | 13.52 | 15.78 | 14.46 | 12 | 13.39 | 11.42 | 17.17 | 17.94 | 16.21 | 12.88 | 13.28 | 13.05 |
| 31.13 | 77.88 | 14.76 | 13.45 | 12.08 | 11.64 | 13.82 | 13.45 | 14.99 | 13.92 | 11.8 | 13.02 | 11.3 | 16.82 | 17.07 | 16.2 | 13.16 | 13.36 | 13.33 |

| Lattitude | Longitude | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Table date from the year 1988 to 2004 Continued* | | | | | | | | | | | | | | | | | | |
| 31.13 | 78.13 | 14.43 | 13.71 | 13.09 | 11.57 | 14.73 | 14.42 | 15.99 | 15.75 | 12.61 | 13.23 | 12.77 | 17.57 | 18.45 | 17.44 | 14.31 | 14.25 | 14.43 |
| 31.13 | 78.38 | 14.29 | 13.76 | 13.54 | 11.96 | 15.55 | 14.9 | 17.99 | 19.24 | 13.59 | 13.43 | 15.12 | 18.1 | 20.15 | 18.5 | 15.48 | 15.4 | 15.35 |
| 31.13 | 78.63 | 14.22 | 13.88 | 13.59 | 12.24 | 16.06 | 14.81 | 19.15 | 21.14 | 14.1 | 13.45 | 16.43 | 18.36 | 20.33 | 19.01 | 15.93 | 15.69 | 15.7 |
| 31.13 | 78.88 | 14.21 | 14.36 | 13.8 | 12.73 | 16.37 | 14.38 | 19.23 | 19.76 | 14.44 | 12.68 | 16.48 | 17.87 | 18.37 | 18.85 | 15.85 | 15.42 | 15.08 |
| 31.13 | 79.13 | 13.94 | 14.61 | 13.5 | 12.45 | 15.64 | 13.51 | 17.14 | 16.05 | 13.95 | 10.98 | 14.76 | 15.85 | 15.3 | 16.29 | 15 | 13.98 | 13.5 |
| 30.88 | 76.88 | 24.68 | 24.07 | 19.83 | 18.3 | 24.01 | 29.85 | 27.2 | 27.27 | 17.45 | 16.52 | 15.08 | 22.01 | 22.37 | 21.63 | 16.69 | 21.32 | 22.29 |
| 30.88 | 77.13 | 24.56 | 22.08 | 17.42 | 17.36 | 19.56 | 23.04 | 22.32 | 23.6 | 15.76 | 14.32 | 13.71 | 20.9 | 20.33 | 20.76 | 15.15 | 19.41 | 18.5 |
| 30.88 | 77.38 | 22.88 | 19.76 | 15.07 | 16.23 | 18.31 | 19.43 | 20.9 | 21.18 | 15.05 | 15.05 | 13.22 | 20.99 | 19.97 | 19.79 | 14.5 | 17.53 | 16.71 |
| 30.88 | 77.63 | 21.03 | 17.78 | 14.29 | 13.78 | 18.25 | 17.49 | 20.39 | 19.14 | 15.25 | 17.08 | 13.08 | 21.04 | 19.16 | 18.95 | 15.24 | 15.94 | 15.51 |
| 30.88 | 77.88 | 18.99 | 17.51 | 14.97 | 13.69 | 19.41 | 16.57 | 21.6 | 18.91 | 15.84 | 16.59 | 14.78 | 20.61 | 19.25 | 20.27 | 16.11 | 16.38 | 16.48 |
| 30.88 | 78.13 | 17.34 | 17.42 | 15.85 | 15.69 | 20.94 | 16.44 | 23.47 | 21.57 | 17.04 | 15.41 | 18.73 | 20.47 | 20.48 | 21.97 | 18.43 | 18.01 | 18.03 |
| 30.88 | 78.38 | 16.85 | 17.08 | 16.07 | 16.91 | 21.07 | 16.46 | 24.53 | 24.97 | 17.4 | 15.37 | 21.46 | 20.47 | 21.81 | 22.49 | 19.86 | 19.12 | 18.49 |
| 30.88 | 78.63 | 16.47 | 17.02 | 16.12 | 17.05 | 20.71 | 16.15 | 24.52 | 25.52 | 17.13 | 15.11 | 21.54 | 20.26 | 22 | 22.27 | 19.68 | 18.96 | 18.31 |
| 30.88 | 78.88 | 16.4 | 17.93 | 16.97 | 17.59 | 20.56 | 15.95 | 23.44 | 22.3 | 17.16 | 14.55 | 20.16 | 20.01 | 20.53 | 21.71 | 19.34 | 18.43 | 18.12 |
| 30.88 | 79.13 | 15.34 | 17.35 | 15.9 | 16.1 | 18.68 | 14.78 | 20.52 | 18.16 | 15.93 | 12.57 | 17.36 | 18.25 | 17.7 | 19.42 | 17.25 | 16.43 | 16.2 |
| 30.88 | 79.38 | 14.28 | 15.72 | 13.34 | 13.15 | 15.96 | 13.32 | 16.59 | 14.91 | 13.87 | 10.21 | 14.53 | 15.7 | 14.3 | 15.32 | 13.58 | 14.42 | 13.64 |
| 30.88 | 79.63 | 14.5 | 15.79 | 12.85 | 13.31 | 16.54 | 13.06 | 15.58 | 14.31 | 13.21 | 9.66 | 13.42 | 15.25 | 13.09 | 13.39 | 11.1 | 15.28 | 14.48 |
| 30.88 | 79.88 | 15.13 | 15.5 | 14.09 | 17.42 | 17.46 | 13.23 | 16.87 | 14.51 | 13.11 | 9.84 | 12.5 | 15.55 | 12.96 | 13.02 | 11.25 | 15.94 | 15.67 |
| 30.63 | 77.38 | 28.38 | 23.76 | 20.92 | 18.15 | 25.03 | 25.55 | 25.93 | 26.93 | 19.25 | 20.74 | 17.98 | 24.07 | 21.48 | 22.62 | 18.15 | 21.1 | 20.25 |
| 30.63 | 77.63 | 28.94 | 24.14 | 21.7 | 17.93 | 27.73 | 24.7 | 28.41 | 27.87 | 21.51 | 23.82 | 20.04 | 25.07 | 21.82 | 23.57 | 19.27 | 21.15 | 20.51 |
| 30.63 | 77.88 | 24.74 | 23.59 | 21.25 | 19.3 | 28.7 | 20.74 | 29.31 | 25.85 | 22 | 20.23 | 22.49 | 23.98 | 21.41 | 24.83 | 20.48 | 21.51 | 21.14 |
| 30.63 | 78.13 | 19.61 | 21.02 | 19.3 | 19.87 | 26.86 | 18.24 | 28.17 | 24.63 | 20.61 | 16.32 | 23.85 | 22.02 | 21.06 | 24.46 | 20.71 | 20.93 | 20.7 |
| 30.63 | 78.38 | 16.85 | 17.56 | 16.65 | 18.86 | 23.96 | 16.43 | 27.02 | 27.36 | 18.39 | 14.53 | 23.68 | 20.66 | 21.81 | 23.11 | 20.61 | 19.59 | 19.19 |
| 30.63 | 78.63 | 15.57 | 16.12 | 15.22 | 18.45 | 22.2 | 15.75 | 26.61 | 28.67 | 17.13 | 13.71 | 22.48 | 20.12 | 22.82 | 22.27 | 18.78 | 18.41 | 18.17 |
| 30.63 | 78.88 | 16.37 | 18.3 | 17.08 | 19.97 | 22.32 | 15.83 | 24.98 | 23.3 | 17.42 | 14.05 | 20.93 | 19.85 | 21.05 | 22.23 | 19.67 | 18.58 | 18.62 |
| 30.63 | 79.13 | 16.72 | 19.58 | 18 | 20.05 | 21.29 | 16.05 | 23.07 | 19.65 | 17.51 | 13.97 | 19.06 | 20.34 | 19.7 | 21.01 | 17.82 | 18.14 | 18.13 |
| 30.63 | 79.38 | 15.35 | 17.91 | 15.42 | 16.76 | 17.75 | 14.33 | 19.31 | 16.5 | 15.17 | 11.19 | 15.78 | 18.09 | 16.28 | 16.18 | 13.59 | 15.55 | 15 |
| 30.63 | 79.63 | 15.53 | 16.73 | 14.33 | 16.26 | 17 | 13.54 | 17.81 | 14.98 | 13.52 | 9.71 | 13.41 | 16.54 | 13.72 | 14.09 | 11.87 | 15.24 | 14.53 |
| 30.63 | 79.88 | 16.34 | 16.31 | 15.13 | 21.23 | 18.07 | 13.84 | 19.28 | 14.96 | 13.25 | 10.03 | 12.41 | 16.52 | 13.32 | 14.31 | 11.59 | 15.9 | 16.14 |
| 30.63 | 80.13 | 16.67 | 16.45 | 15.01 | 21.9 | 17.72 | 14.25 | 18.78 | 14.74 | 13.04 | 10.6 | 11.99 | 16.28 | 13.54 | 13.61 | 11.29 | 15.74 | 15.91 |
| 30.38 | 77.88 | 25.19 | 25.98 | 23.06 | 23.09 | 31.49 | 22.17 | 31.93 | 28.75 | 25.05 | 19.96 | 26.1 | 24.87 | 22.03 | 27.02 | 23.63 | 24.09 | 22.87 |
| 30.38 | 78.13 | 21.35 | 23.78 | 21.53 | 22.79 | 28.97 | 20.83 | 29.94 | 26.11 | 23.68 | 17.56 | 26.13 | 23.34 | 21.86 | 26 | 22.62 | 23.35 | 22.37 |
| 30.38 | 78.38 | 18.39 | 20.15 | 18.68 | 20.8 | 27 | 17.94 | 28.8 | 27.16 | 20.49 | 15.1 | 25.01 | 21.54 | 21.17 | 24.45 | 22.2 | 21.51 | 20.52 |
| 30.38 | 78.63 | 15.35 | 16.43 | 15.32 | 17.47 | 25.15 | 16.11 | 29.39 | 30.42 | 17.69 | 12.31 | 22.58 | 20.43 | 22 | 23.48 | 18.71 | 18.95 | 19.18 |
| 30.38 | 78.88 | 15.92 | 17.53 | 16.39 | 19.44 | 23.81 | 15.43 | 27.08 | 24.52 | 17.18 | 12.5 | 20.53 | 19.14 | 20.95 | 23.02 | 19.1 | 18.24 | 19.12 |
| 30.38 | 79.13 | 17.27 | 20.07 | 18.52 | 21.67 | 21.9 | 16.04 | 24.48 | 20.14 | 17.53 | 13.6 | 18.94 | 20.36 | 20.22 | 21.32 | 17.81 | 18.3 | 18.96 |
| 30.38 | 79.38 | 17.27 | 19.93 | 18.28 | 21.11 | 19.23 | 15.43 | 23.01 | 18.34 | 16.36 | 12.3 | 16.56 | 20.78 | 18.54 | 18.02 | 15.19 | 16.84 | 17.44 |
| 30.38 | 79.63 | 17.27 | 18.65 | 17.5 | 22.07 | 17.64 | 14.54 | 22.23 | 16.8 | 14.5 | 10.57 | 13.91 | 19.91 | 16.03 | 16.61 | 13.17 | 15.68 | 16.05 |
| 30.38 | 79.88 | 17.6 | 18.88 | 17.07 | 23.73 | 18.59 | 14.78 | 22.13 | 16.14 | 14.02 | 11.04 | 13.04 | 19.06 | 15.48 | 16.2 | 12.3 | 16.35 | 17.46 |
| 30.38 | 80.13 | 19.11 | 20.8 | 16.68 | 22.4 | 20.1 | 16.37 | 21.17 | 16.81 | 15.26 | 13.45 | 14.55 | 19.54 | 16.83 | 16.49 | 13.11 | 17.99 | 19.17 |
| 30.38 | 80.38 | 21.91 | 22.82 | 17.54 | 21.99 | 21.72 | 18.32 | 21.55 | 18.32 | 17.6 | 16.66 | 17.21 | 21.37 | 18.57 | 18.02 | 15.14 | 19.84 | 20.7 |
| 30.38 | 80.63 | 23.54 | 23.92 | 17.84 | 21.94 | 22.35 | 18.93 | 22.26 | 18.96 | 18.64 | 18.13 | 18.37 | 22.62 | 19.49 | 18.78 | 15.99 | 20.62 | 21.27 |
| 30.13 | 77.88 | 25.49 | 24.46 | 22.33 | 24.4 | 31.29 | 21.98 | 35.8 | 28.28 | 25.95 | 18.46 | 27.21 | 24.88 | 21.04 | 28.03 | 28.18 | 24.83 | 22.23 |
| 30.13 | 78.13 | 23.7 | 24.52 | 22.3 | 24.71 | 30.55 | 21.62 | 34.45 | 28.07 | 25.27 | 17.81 | 27.1 | 23.96 | 21.93 | 27.56 | 26.21 | 25.27 | 22.69 |
| 30.13 | 78.38 | 21.62 | 22.64 | 20.74 | 22.77 | 29.54 | 19.84 | 32.44 | 27.38 | 22.67 | 16.68 | 25.3 | 22.58 | 21.18 | 26.33 | 23.98 | 23.99 | 21.95 |
| 30.13 | 78.63 | 17.96 | 18.87 | 17.58 | 18.63 | 27.17 | 17.06 | 31.69 | 27.84 | 19.44 | 13.46 | 21.84 | 20.2 | 19.32 | 24.89 | 21.58 | 20.97 | 20.49 |
| 30.13 | 78.88 | 16.87 | 17.24 | 16.69 | 19.21 | 23.99 | 15.32 | 28.78 | 24.6 | 17.57 | 11.74 | 18.88 | 18.45 | 19.28 | 22.95 | 20 | 18.6 | 19.85 |
| 30.13 | 79.13 | 17.69 | 18.09 | 17.83 | 22.43 | 19.93 | 14.95 | 25.27 | 19.74 | 16.34 | 12.06 | 16.85 | 18.8 | 19.09 | 20.74 | 17.46 | 16.87 | 19.54 |
| 30.13 | 79.38 | 18.43 | 19.07 | 18.61 | 23.62 | 18.48 | 15.26 | 22.99 | 18.41 | 15.71 | 12.54 | 15.81 | 20.11 | 18.51 | 18.54 | 16 | 16.78 | 18.54 |
| 30.13 | 79.63 | 18.56 | 19.51 | 18.4 | 23.74 | 18.7 | 15.21 | 22.73 | 18.16 | 15.6 | 12.97 | 15.23 | 20.54 | 17.76 | 17.43 | 14.77 | 17 | 18.25 |
| 30.13 | 79.88 | 19.28 | 21.04 | 17.99 | 22.73 | 19.99 | 16.15 | 22.61 | 18.15 | 16.48 | 14.55 | 15.8 | 20.74 | 18 | 17.84 | 14.65 | 18.14 | 19.84 |
| 30.13 | 80.13 | 21.65 | 23.32 | 18.34 | 23.02 | 22.11 | 18.71 | 22.77 | 18.99 | 18.45 | 17.16 | 18.01 | 21.81 | 19.11 | 19.03 | 15.85 | 20.05 | 21.67 |
| 30.13 | 80.38 | 23.43 | 24.14 | 18.39 | 23.18 | 23.2 | 19.85 | 22.51 | 19.37 | 19.31 | 18.45 | 19.13 | 22.49 | 19.53 | 19.44 | 16.37 | 21.04 | 22.19 |
| 30.13 | 80.63 | 24.18 | 24.41 | 17.98 | 22.85 | 23.49 | 19.12 | 22.42 | 19.65 | 19.44 | 18.65 | 18.98 | 22.9 | 19.61 | 19.4 | 16.35 | 21.39 | 22.16 |
| 29.88 | 77.88 | 28.12 | 23.12 | 20.51 | 23.06 | 32.22 | 25.99 | 39.44 | 26.67 | 26.11 | 19.2 | 24.97 | 25.5 | 19.32 | 28.75 | 26.53 | 24.93 | 21.42 |
| 29.88 | 78.13 | 28.12 | 23.66 | 21.47 | 24.43 | 32.81 | 23.1 | 39.95 | 27.23 | 25.48 | 19.86 | 24.21 | 23.77 | 20.15 | 29.72 | 27.81 | 25.49 | 22.63 |
| 29.88 | 78.38 | 25.55 | 23.29 | 21.49 | 25.11 | 30.28 | 20.75 | 36.26 | 27.6 | 23.34 | 19.68 | 22.41 | 22.48 | 21.09 | 27.8 | 25.2 | 25.23 | 22.71 |
| 29.88 | 78.63 | 23.36 | 21.68 | 20.22 | 23.45 | 27.73 | 19.14 | 32.85 | 26.12 | 21.27 | 17.98 | 20.11 | 20.95 | 20.13 | 25.9 | 22.19 | 23.67 | 22.11 |

| Lattitude | Longitude | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Table date from the year 1988 to 2004 Continued* | | | | | | | | | | | | | | | | | | |
| 29.88 | 78.88 | 21.9 | 19.59 | 18.97 | 23.81 | 24.19 | 16.91 | 30.28 | 23.92 | 18.96 | 15.06 | 17.87 | 19.09 | 18.65 | 23.42 | 20.44 | 21.54 | 21.06 |
| 29.88 | 79.13 | 20.89 | 18.25 | 18.37 | 24.77 | 19.89 | 16.26 | 25.86 | 20.82 | 16.73 | 13.52 | 16.43 | 18.57 | 18.37 | 20.03 | 18.97 | 18.62 | 20.13 |
| 29.88 | 79.38 | 20.59 | 18.24 | 18.29 | 25.08 | 18.75 | 17.17 | 23.23 | 19.59 | 16 | 14 | 16.6 | 19.43 | 18.48 | 18.34 | 17.95 | 17.59 | 19.78 |
| 29.88 | 79.63 | 20.47 | 19.11 | 18.12 | 23.64 | 19.31 | 17.08 | 22.73 | 19.66 | 16.7 | 15.05 | 17.3 | 19.97 | 18.36 | 18.02 | 16.55 | 18.05 | 19.65 |
| 29.88 | 79.88 | 20.43 | 20.7 | 17.88 | 21.89 | 20.3 | 16.97 | 22.49 | 19.51 | 18.11 | 16.47 | 17.96 | 20.39 | 18.51 | 18.58 | 16.24 | 18.71 | 20.51 |
| 29.88 | 80.13 | 21.17 | 22.61 | 18.09 | 21.85 | 21.66 | 18.46 | 22.8 | 19.64 | 19.54 | 18.01 | 19.08 | 21.55 | 19.05 | 19.36 | 16.7 | 19.86 | 21.63 |
| 29.88 | 80.38 | 22.32 | 23.7 | 18.15 | 22.28 | 22.47 | 19.33 | 22.78 | 19.46 | 19.62 | 18.42 | 19.2 | 22.12 | 19.24 | 19.61 | 16.54 | 20.63 | 22.16 |
| 29.63 | 78.63 | 28.16 | 22.96 | 21.66 | 26.38 | 28.49 | 20.62 | 34.6 | 26.7 | 20.92 | 22.74 | 18.65 | 22.17 | 21.85 | 26.62 | 23.41 | 25.89 | 23.39 |
| 29.63 | 78.88 | 26.87 | 21.35 | 20.67 | 27.2 | 25.25 | 18.89 | 30.82 | 24.95 | 19.21 | 18.71 | 18.77 | 20.82 | 20.2 | 23.54 | 22.37 | 24.36 | 23 |
| 29.63 | 79.13 | 24.93 | 19.65 | 19.42 | 26.76 | 21.66 | 18.71 | 26.34 | 22.7 | 17.8 | 16.22 | 18.32 | 19.88 | 19.18 | 20.14 | 21.07 | 21.63 | 21.85 |
| 29.63 | 79.38 | 23.45 | 18.86 | 18.65 | 25.41 | 20.26 | 20 | 23.82 | 21.5 | 17.41 | 15.96 | 18.34 | 20.03 | 19.07 | 18.9 | 19.94 | 19.74 | 21.07 |
| 29.63 | 79.63 | 22.03 | 18.13 | 17.76 | 23.92 | 19.36 | 19.38 | 22.77 | 21 | 16.88 | 15.62 | 18.16 | 19.7 | 18.63 | 18.15 | 18.49 | 18.32 | 19.94 |
| 29.63 | 79.88 | 19.87 | 18.41 | 16.87 | 21.1 | 19.11 | 16.82 | 21.91 | 19.96 | 17.44 | 15.72 | 17.78 | 19.01 | 18.06 | 17.79 | 16.33 | 17.2 | 19.12 |
| 29.63 | 80.13 | 18.83 | 19.97 | 16.67 | 19.73 | 19.78 | 16.78 | 21.83 | 19.65 | 19.16 | 17.09 | 18.28 | 20.04 | 18.03 | 18.39 | 16.05 | 17.86 | 20.18 |
| 29.63 | 80.38 | 18.77 | 20.82 | 16.6 | 19.48 | 19.7 | 17.16 | 22.07 | 19.2 | 19.4 | 17.18 | 18.47 | 20.54 | 17.95 | 18.58 | 15.85 | 18.59 | 20.76 |
| 29.38 | 79.13 | 26.99 | 20.75 | 20.35 | 28.65 | 23.23 | 19.56 | 27.39 | 24.22 | 18.16 | 18.14 | 20.04 | 21.09 | 20.57 | 21.13 | 22.83 | 23.68 | 22.57 |
| 29.38 | 79.38 | 25.69 | 20.75 | 20.34 | 26.44 | 22.82 | 21.34 | 25.33 | 23.59 | 18.97 | 18.28 | 20.39 | 21.44 | 20.49 | 20.95 | 21.71 | 22.65 | 22.71 |
| 29.38 | 79.63 | 24.65 | 20.17 | 20.01 | 25.3 | 22.13 | 21.24 | 24.57 | 23.46 | 18.8 | 17.73 | 20.1 | 20.95 | 20.12 | 20.28 | 21.06 | 21.26 | 21.84 |
| 29.38 | 79.88 | 21.03 | 18.85 | 19.28 | 20.85 | 20.05 | 17.88 | 22.91 | 23.23 | 16.98 | 16.23 | 19.04 | 18.74 | 18.85 | 18.85 | 18.79 | 17.89 | 18.09 |
| 29.38 | 80.13 | 17.52 | 18.72 | 18.38 | 17.45 | 18.66 | 16.36 | 21.38 | 22.24 | 17.34 | 16.54 | 18.53 | 18.02 | 17.81 | 18.56 | 16.28 | 16.63 | 16.78 |
| 29.13 | 79.38 | 28.38 | 22.66 | 22.32 | 29.22 | 25.48 | 21.36 | 28.27 | 26.37 | 19.01 | 20.6 | 22.07 | 22.72 | 22.22 | 23.27 | 24.03 | 25 | 22.76 |
| 29.13 | 79.63 | 26.65 | 22.8 | 23.37 | 25.66 | 25.61 | 21.51 | 26.97 | 27.38 | 19.34 | 19.89 | 22.39 | 21.63 | 21.82 | 22.76 | 23.24 | 23.46 | 21.45 |
| 29.13 | 79.88 | 23.69 | 22.9 | 24.91 | 20.43 | 24.76 | 20.19 | 25.67 | 30.02 | 18.74 | 19.48 | 22.4 | 18.97 | 21.64 | 23.91 | 22.61 | 21.27 | 18.58 |
| 29.13 | 80.13 | 20.86 | 23.48 | 25.25 | 18.15 | 23.75 | 20.16 | 24.8 | 31.32 | 19.05 | 19.98 | 22.38 | 18.2 | 21.57 | 24.74 | 21.69 | 20.82 | 16.81 |
| 28.88 | 79.63 | 27.15 | 25.29 | 27.55 | 23.62 | 28.08 | 21.06 | 29.67 | 32.41 | 18.17 | 21.28 | 23.06 | 23.11 | 23.7 | 29.51 | 26.33 | 24.43 | 19.29 |
| 28.88 | 79.88 | 25.49 | 25.98 | 28.71 | 20.39 | 28.26 | 22.07 | 27.96 | 34.47 | 19.34 | 22.22 | 24.57 | 19.09 | 23.47 | 29.06 | 25.67 | 23.26 | 18.84 |

| Lattitude | Longitude | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Table date from the year 2005 to 2020 Continued* | | | | | | | | | | | | | | | | | |
| 36.88 | 73.88 | 34 | 13.83 | 19.59 | 21.61 | 15.75 | 18.3 | 38.88 | 19.13 | 19.27 | 25.1 | 11.46 | 12.2 | 14.36 | 40.18 | 16.64 | 14.39 |
| 36.88 | 74.38 | 29.37 | 13.18 | 15.81 | 22.84 | 15.57 | 18.52 | 43.94 | 18.31 | 19.09 | 26.72 | 12.41 | 11.64 | 13.06 | 45.58 | 18.51 | 17.31 |
| 36.88 | 74.63 | 25.43 | 13.82 | 14.85 | 22.67 | 16.17 | 18.14 | 41.66 | 17.95 | 17.45 | 27.28 | 13.03 | 11.66 | 13.09 | 46.69 | 18.62 | 19.04 |
| 36.88 | 74.88 | 21.03 | 14.45 | 15.38 | 18.24 | 14.75 | 16.2 | 22.43 | 13.37 | 14.43 | 27.58 | 13.41 | 11.73 | 12.97 | 46.06 | 18.06 | 19.1 |
| 36.88 | 75.13 | 19.59 | 14.92 | 16.45 | 11.22 | 11.08 | 12.55 | 11.32 | 9.97 | 14.39 | 26.03 | 13.14 | 11.78 | 11.07 | 42.79 | 16.25 | 18.45 |
| 36.88 | 75.38 | 19.4 | 15.41 | 19.5 | 11.14 | 10.51 | 12.87 | 11.46 | 10.17 | 15.66 | 22.36 | 13.1 | 11.83 | 10.45 | 38.3 | 14.78 | 18.58 |
| 36.63 | 73.13 | 35.51 | 15.79 | 22.38 | 22.87 | 18.37 | 18.06 | 50.26 | 19.98 | 26.21 | 28.39 | 15.25 | 20.08 | 32.38 | 27.27 | 15.38 | 16.74 |
| 36.63 | 73.38 | 35.81 | 15.46 | 22.05 | 22.69 | 18.05 | 18 | 49.86 | 19.86 | 24.84 | 22.26 | 14.79 | 19.35 | 28.41 | 31.31 | 14.52 | 17.14 |
| 36.63 | 73.63 | 35.33 | 14.91 | 21.02 | 22.9 | 17.67 | 18.03 | 50.27 | 19.81 | 22.7 | 19.41 | 14.25 | 17.78 | 24.7 | 38.65 | 14.12 | 17.45 |
| 36.63 | 73.88 | 34.09 | 14.05 | 19.36 | 23.65 | 17.24 | 18.19 | 51.49 | 19.82 | 21.21 | 23.05 | 13.54 | 15.02 | 21.04 | 47.04 | 14.86 | 17.76 |
| 36.63 | 74.13 | 31.84 | 13.43 | 17.3 | 24.44 | 17.53 | 18.78 | 54.04 | 20.05 | 20.66 | 25.26 | 13.13 | 12.86 | 16.92 | 49.23 | 16.73 | 18.1 |
| 36.63 | 74.38 | 28.39 | 13.72 | 15.53 | 23.51 | 20.53 | 21.64 | 57.95 | 25.63 | 22.13 | 26.58 | 12.41 | 11.98 | 14.13 | 49.29 | 18.92 | 18.87 |
| 36.63 | 74.63 | 23.88 | 14.53 | 15.31 | 22.77 | 23.51 | 27.8 | 55.16 | 33.64 | 27.44 | 27.59 | 11.82 | 11.53 | 13.44 | 50.11 | 20.62 | 18.99 |
| 36.63 | 74.88 | 20.71 | 15.18 | 16.69 | 23.02 | 26.54 | 26.65 | 47.19 | 34.22 | 23.06 | 26.6 | 12.3 | 11.98 | 12.2 | 49.56 | 21.04 | 20.31 |
| 36.63 | 75.13 | 20.02 | 15.6 | 18.8 | 16.06 | 25.13 | 15.27 | 22.78 | 28.84 | 15.01 | 22.27 | 13.34 | 13.79 | 11.97 | 47.3 | 18.44 | 20.66 |
| 36.63 | 75.38 | 20.14 | 16 | 22.12 | 13.1 | 18.52 | 12.74 | 11.65 | 17.9 | 15.5 | 20.55 | 12.48 | 12.94 | 11.66 | 44.06 | 15.07 | 18.21 |
| 36.63 | 75.63 | 20.8 | 17.32 | 24.22 | 11.4 | 12.3 | 11.99 | 11.31 | 10.92 | 15.65 | 16.56 | 11.89 | 12.18 | 10.7 | 34.26 | 12.5 | 17.44 |
| 36.38 | 72.88 | 32.39 | 15.94 | 22.61 | 23.11 | 19.65 | 18.06 | 57.59 | 21.18 | 29.31 | 32.22 | 17.31 | 25.62 | 38.51 | 28.03 | 18.17 | 17.2 |
| 36.38 | 73.13 | 35.19 | 15.88 | 22.2 | 22.78 | 20.07 | 18.28 | 57.57 | 22.58 | 29.55 | 30.74 | 18.11 | 25.88 | 37.91 | 31.21 | 18.41 | 18.06 |
| 36.38 | 73.38 | 35.92 | 15.93 | 22.15 | 22.97 | 19.53 | 18.28 | 55.93 | 21.14 | 28.78 | 29.13 | 18.38 | 26.17 | 38.23 | 34.86 | 18.63 | 18.56 |
| 36.38 | 73.63 | 35.27 | 14.74 | 20.98 | 23.59 | 18.21 | 18.18 | 53.73 | 20.27 | 26.12 | 25.18 | 18.32 | 25.79 | 39.64 | 39.51 | 18.47 | 18.17 |
| 36.38 | 73.88 | 33.55 | 14.27 | 19.16 | 23.82 | 18.05 | 18.63 | 51.52 | 20.8 | 24.07 | 22.59 | 17.75 | 24.48 | 42.53 | 45.32 | 18.35 | 17.38 |
| 36.38 | 74.13 | 30.56 | 14.3 | 17.16 | 22.64 | 21.72 | 24.13 | 54.3 | 28.03 | 25 | 24.23 | 17.11 | 21.09 | 39.02 | 48.1 | 18.98 | 16.91 |
| 36.38 | 74.38 | 26.75 | 14.75 | 15.89 | 24.26 | 25.49 | 33.11 | 50.21 | 36.12 | 26.71 | 29.71 | 12.52 | 18.4 | 25.35 | 49.45 | 20.58 | 16.39 |
| 36.38 | 74.63 | 23.28 | 15.51 | 16.63 | 26.77 | 30.17 | 37.92 | 46.44 | 39.36 | 27.1 | 27.19 | 11.91 | 17.67 | 18.62 | 48.34 | 21.47 | 16.44 |
| 36.38 | 74.88 | 21.02 | 16.04 | 18.85 | 25.76 | 30.32 | 32.4 | 42.86 | 40.93 | 26.28 | 20.18 | 13.95 | 21.75 | 18.11 | 43.26 | 18.37 | 18.21 |
| 36.38 | 75.13 | 20.56 | 16.43 | 21.36 | 19.46 | 29.05 | 20.2 | 38.76 | 45.92 | 19.82 | 16.25 | 15.04 | 28.65 | 19.31 | 35.84 | 17.09 | 22.24 |
| 36.38 | 75.38 | 20.9 | 16.75 | 23.48 | 17.66 | 26.44 | 18.99 | 24.73 | 48.94 | 15.11 | 15.46 | 14.78 | 28.1 | 19.97 | 31.01 | 16.7 | 27.64 |
| 36.38 | 75.63 | 20.5 | 18.99 | 26.87 | 16.47 | 24.15 | 16.77 | 15.94 | 33.29 | 13.98 | 14.89 | 14.25 | 24.08 | 20.19 | 26.65 | 16.8 | 24.37 |
| 36.38 | 75.88 | 20.34 | 22.45 | 30.67 | 14.12 | 18.93 | 12.71 | 11.66 | 17.87 | 13.76 | 13.5 | 13.45 | 16.87 | 16.47 | 23.02 | 13.63 | 16.19 |

| Lattitude | Longitude | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Table date from the year 2005 to 2020 Continued* | | | | | | | | | | | | | | | | | |
| 36.38 | 76.13 | 20.37 | 24.79 | 33.45 | 12.58 | 14.5 | 11.17 | 11.48 | 12.41 | 14.64 | 10.96 | 11.69 | 13.67 | 12.54 | 18.54 | 10.42 | 13.27 |
| 36.13 | 72.63 | 22.12 | 15.79 | 26.87 | 22.13 | 17.99 | 17.55 | 49.76 | 16.06 | 26.02 | 28.14 | 14.68 | 27.79 | 42.25 | 22.79 | 19.67 | 17 |
| 36.13 | 72.88 | 30.08 | 15.9 | 22.7 | 21.51 | 20.78 | 18.42 | 56.27 | 22.27 | 30.82 | 30.75 | 17.29 | 29.46 | 41.95 | 28.56 | 21.03 | 16.77 |
| 36.13 | 73.13 | 34.46 | 15.47 | 21.7 | 21.61 | 21.64 | 18.83 | 59.05 | 26.8 | 33.74 | 31.67 | 18.46 | 31.1 | 42.46 | 32.58 | 22.87 | 17.1 |
| 36.13 | 73.38 | 35.56 | 15.43 | 21.83 | 22.46 | 20.15 | 18.56 | 59.58 | 26.93 | 34.42 | 32.47 | 18.98 | 32.98 | 43.23 | 34.26 | 24.47 | 16.93 |
| 36.13 | 73.63 | 34.42 | 14.18 | 20.46 | 23.45 | 19.71 | 18.83 | 57.5 | 25.52 | 31.42 | 33.92 | 18.64 | 35.83 | 45.52 | 33.22 | 26.04 | 16.16 |
| 36.13 | 73.88 | 31.8 | 14.12 | 18.42 | 22.4 | 21.9 | 26.24 | 53.78 | 31.16 | 27.25 | 33.79 | 17.66 | 34.3 | 51.62 | 30.79 | 28.11 | 15.93 |
| 36.13 | 74.13 | 28.18 | 14.87 | 16.74 | 25.65 | 26.35 | 37.36 | 47.48 | 37.13 | 24.37 | 27.27 | 16.65 | 30.15 | 65.01 | 28.66 | 30.01 | 16.62 |
| 36.13 | 74.38 | 24.65 | 15.75 | 16.15 | 28.25 | 32.31 | 43.16 | 43.65 | 39.89 | 25.22 | 24.96 | 14.68 | 33.38 | 53.9 | 28.21 | 30.44 | 17.25 |
| 36.13 | 74.63 | 21.93 | 16.17 | 16.72 | 27.42 | 33.5 | 38.13 | 41.43 | 40.59 | 25.03 | 25.41 | 13.48 | 34.74 | 39.87 | 28.38 | 26.61 | 17.7 |
| 36.13 | 74.88 | 20.3 | 15.98 | 17.87 | 23.46 | 29.21 | 26.87 | 38.65 | 39.89 | 21.64 | 24.08 | 14.57 | 40.06 | 33.07 | 26.02 | 23.75 | 18.44 |
| 36.13 | 75.13 | 19.46 | 15.63 | 19.44 | 18.35 | 26.81 | 19.85 | 34.44 | 41.4 | 19.89 | 22.07 | 15.34 | 40.45 | 30.31 | 24.2 | 21.42 | 20.52 |
| 36.13 | 75.38 | 19.19 | 16.79 | 22.91 | 15.94 | 25.69 | 19.93 | 26.32 | 45.7 | 15.99 | 21.44 | 16.18 | 40.27 | 28.85 | 24.47 | 21.04 | 25.88 |
| 36.13 | 75.63 | 19.41 | 20.18 | 29.13 | 17.72 | 26.01 | 20.75 | 20.55 | 37.3 | 14.59 | 22.53 | 17.14 | 42.96 | 28.64 | 26.29 | 21.07 | 30.25 |
| 36.13 | 75.88 | 19.49 | 23.26 | 33.57 | 16.87 | 25.69 | 18.69 | 17.66 | 30.32 | 13.6 | 23 | 17.38 | 35.46 | 27.87 | 24.01 | 20.32 | 27.91 |
| 36.13 | 76.13 | 19.52 | 24.89 | 35.47 | 15.69 | 22.6 | 14.24 | 14.44 | 22.68 | 13.12 | 19.83 | 15.93 | 22.67 | 22.75 | 20.39 | 17.27 | 21.58 |
| 36.13 | 76.38 | 19.85 | 25.99 | 36.73 | 15.11 | 18.04 | 11.71 | 12.33 | 16.81 | 13.81 | 15.35 | 13.38 | 15.83 | 15.43 | 17.84 | 12.55 | 14.99 |
| 36.13 | 76.63 | 19.88 | 26.84 | 37.44 | 13.69 | 15.75 | 11.14 | 12.1 | 13.63 | 15.02 | 12.12 | 11.86 | 14.08 | 12.64 | 17.23 | 10.75 | 12.5 |
| 35.88 | 72.63 | 18.54 | 14.75 | 25.82 | 18.89 | 18.08 | 17.8 | 42.56 | 14.42 | 23.57 | 25.19 | 13.65 | 27.52 | 35.47 | 20.09 | 18.96 | 16.74 |
| 35.88 | 73.13 | 33.21 | 16 | 20.89 | 19.76 | 22.94 | 21.24 | 63.28 | 33.18 | 38.74 | 34.77 | 18.26 | 36.65 | 44.94 | 26.55 | 26.81 | 15.72 |
| 35.88 | 73.38 | 33.52 | 13.97 | 20.48 | 22.14 | 22.62 | 22.85 | 60.48 | 34.63 | 37.12 | 37.26 | 18.39 | 35.52 | 48.71 | 26.37 | 29.01 | 15.66 |
| 35.88 | 73.63 | 31 | 13.12 | 19.06 | 22.91 | 23.39 | 29.26 | 54.41 | 35.33 | 31.3 | 35.27 | 17.76 | 32.92 | 58.61 | 27.29 | 31.57 | 15.87 |
| 35.88 | 73.88 | 26.97 | 13.3 | 17.63 | 26.22 | 27.77 | 39.6 | 47.72 | 38.88 | 25.78 | 32.1 | 17.62 | 31.51 | 77.97 | 26.68 | 33.51 | 16.68 |
| 35.88 | 74.13 | 23.12 | 14.15 | 16.64 | 28.97 | 33.88 | 46.43 | 43.3 | 40.39 | 25.54 | 31.42 | 19.01 | 38.01 | 70.07 | 27.77 | 34.7 | 17.81 |
| 35.88 | 74.38 | 21.24 | 15.6 | 16.05 | 28.49 | 33.32 | 43.06 | 41.56 | 40.38 | 25.12 | 31.84 | 15.74 | 42.58 | 48.8 | 32.14 | 33 | 18.61 |
| 35.88 | 74.63 | 19.88 | 16.3 | 16.86 | 25.52 | 30.27 | 34.45 | 38.99 | 39.67 | 23.63 | 35.06 | 14.24 | 43.74 | 40.95 | 36.98 | 29.04 | 18.79 |
| 35.88 | 74.88 | 18.03 | 14.84 | 17.04 | 20.26 | 25.58 | 21.46 | 33.25 | 36.29 | 19.16 | 29.44 | 14.95 | 46.79 | 36.37 | 32.07 | 25.76 | 18.07 |
| 35.88 | 75.13 | 17.18 | 14.49 | 17.88 | 15.42 | 22.43 | 18.94 | 24.58 | 32.63 | 16.39 | 26.51 | 15.73 | 41.57 | 32.2 | 28.57 | 22.9 | 17.96 |
| 35.88 | 75.38 | 17.53 | 16.62 | 20.99 | 14.81 | 22.98 | 19.19 | 21 | 35.16 | 15.06 | 25.13 | 16.54 | 41.07 | 30.15 | 28.62 | 21.83 | 20.97 |
| 35.88 | 75.63 | 18.55 | 20.57 | 27.72 | 16.53 | 25.37 | 20.28 | 20.32 | 34.7 | 15.12 | 25.47 | 17.46 | 44.08 | 29.73 | 30.17 | 22.01 | 27.71 |
| 35.88 | 75.88 | 19.55 | 24.24 | 34.48 | 18.14 | 26.54 | 21.34 | 19.43 | 34.26 | 14.98 | 25.9 | 18.13 | 49.06 | 29.9 | 30.64 | 22.36 | 31.86 |
| 35.88 | 76.13 | 20.01 | 25.93 | 36.73 | 17.83 | 26.92 | 20.1 | 18.64 | 32.89 | 13.99 | 25.42 | 18.19 | 47.72 | 29.86 | 28.47 | 21.91 | 31.6 |
| 35.88 | 76.38 | 20.37 | 26.56 | 37.34 | 16.8 | 25.66 | 16.73 | 17.42 | 28.93 | 13.51 | 23.13 | 17.27 | 34.19 | 27.11 | 22.58 | 20.36 | 27.56 |
| 35.88 | 76.63 | 20.65 | 27.01 | 37.6 | 15.78 | 22.71 | 13.32 | 13.62 | 22.31 | 13.66 | 18.8 | 15.28 | 19.3 | 19.39 | 19.93 | 15.67 | 19.39 |
| 35.88 | 79.38 | 18.94 | 21.65 | 21.93 | 22.93 | 25.5 | 17.9 | 20.5 | 21.73 | 35.55 | 40.42 | 17.19 | 31.79 | 14.7 | 22.36 | 33.11 | 17.48 |
| 35.63 | 73.38 | 28.59 | 12.84 | 19.11 | 23.76 | 28.81 | 32.65 | 53.81 | 36.87 | 32.45 | 36.45 | 15.99 | 32.13 | 65.73 | 27.7 | 32.28 | 15.83 |
| 35.63 | 73.63 | 24.16 | 12.4 | 18.58 | 26.08 | 33.46 | 42.32 | 47.85 | 37.71 | 27.87 | 32.64 | 15.7 | 31.55 | 85.32 | 28.71 | 32.61 | 16.69 |
| 35.63 | 73.88 | 19.4 | 12.58 | 18.44 | 27.9 | 33.79 | 46.39 | 43.73 | 39.39 | 25.77 | 31.16 | 16.86 | 33.86 | 67.78 | 29.13 | 33.59 | 17.49 |
| 35.63 | 74.13 | 17.01 | 12.97 | 18.06 | 28.09 | 32.68 | 45.64 | 41.43 | 39.25 | 25.22 | 30.97 | 16.49 | 37.37 | 52.36 | 30.56 | 32.88 | 18.06 |
| 35.63 | 74.38 | 17.18 | 13.88 | 16.81 | 26.63 | 31.3 | 39.84 | 39.04 | 38.24 | 24.02 | 32.37 | 14.21 | 38.84 | 43.49 | 33.95 | 29.75 | 18.09 |
| 35.63 | 74.63 | 16.97 | 13.94 | 16.58 | 22.03 | 25.9 | 27.36 | 32.94 | 34.18 | 19.92 | 30.1 | 14.1 | 39.6 | 39.57 | 31.84 | 25.94 | 17.07 |
| 35.63 | 74.88 | 16.47 | 13.43 | 17.26 | 15.93 | 21.74 | 18.8 | 23.43 | 27.78 | 16.86 | 25.41 | 14.94 | 39.9 | 34.21 | 27 | 22.69 | 15.84 |
| 35.63 | 75.13 | 16.66 | 14.59 | 18.65 | 13.8 | 20.86 | 18.32 | 18.89 | 27.2 | 14.89 | 24.12 | 15.63 | 34.95 | 30.45 | 25.92 | 19.79 | 16.07 |
| 35.63 | 75.38 | 17.55 | 17.66 | 22.28 | 14.93 | 22.25 | 19.27 | 18.41 | 30.81 | 14.87 | 24.71 | 16.44 | 37.57 | 30 | 27.39 | 20.71 | 19.5 |
| 35.63 | 75.63 | 19.06 | 22.2 | 29.95 | 17.35 | 25.14 | 20.63 | 19.24 | 34.47 | 15.24 | 26.04 | 17.29 | 45.57 | 30 | 29.7 | 21.8 | 27.11 |
| 35.63 | 75.88 | 20.28 | 25.62 | 36.29 | 18.66 | 26.68 | 21.91 | 19.53 | 35.71 | 15.75 | 26.6 | 18 | 49.97 | 30.48 | 29.82 | 22.5 | 32.81 |
| 35.63 | 76.13 | 20.89 | 26.82 | 37.58 | 19.28 | 27.23 | 22.42 | 19.25 | 35.79 | 15.6 | 26.55 | 18.4 | 50.98 | 31.02 | 29.03 | 22.61 | 35.17 |
| 35.63 | 76.38 | 21.19 | 27.17 | 37.82 | 18.67 | 27.31 | 20.91 | 19.02 | 35.01 | 14.49 | 26.19 | 18.32 | 51.1 | 31.29 | 27.97 | 22.1 | 34.56 |
| 35.63 | 76.63 | 21.43 | 27.36 | 37.46 | 17.24 | 25.9 | 18.43 | 18.06 | 32.93 | 13.56 | 24.78 | 17.66 | 40.92 | 30.48 | 22.79 | 21 | 30.59 |
| 35.63 | 76.88 | 21.27 | 27.37 | 37.89 | 15.91 | 23.83 | 15.28 | 15.36 | 27.57 | 13.37 | 21.57 | 16.73 | 31.22 | 25.87 | 20.26 | 19.04 | 24.02 |
| 35.63 | 77.13 | 20.43 | 27.05 | 37.15 | 15.22 | 20.51 | 12.5 | 12.77 | 19.28 | 13.62 | 17.39 | 14.66 | 17.68 | 16.18 | 19.08 | 12.91 | 15.91 |
| 35.63 | 77.38 | 19.55 | 26.71 | 34.18 | 13.89 | 16.9 | 11.28 | 11.57 | 13.92 | 14.11 | 14.13 | 12.72 | 14.56 | 12.61 | 17.4 | 10.26 | 12.17 |
| 35.63 | 78.38 | 13.22 | 15.41 | 16.32 | 12.3 | 11.89 | 12.1 | 11.33 | 10.85 | 17.55 | 12.71 | 12.06 | 18.51 | 12.93 | 16.06 | 13.19 | 11.01 |
| 35.63 | 78.63 | 13.36 | 14.64 | 14.52 | 13.08 | 12.36 | 12.77 | 11.63 | 11.72 | 19.05 | 14.51 | 11.77 | 19.72 | 12.93 | 16.58 | 15.25 | 11.09 |
| 35.63 | 78.88 | 14.16 | 15.19 | 14.21 | 14.35 | 13.34 | 13.7 | 12.11 | 13.37 | 21.13 | 17.54 | 11.84 | 21.63 | 13.1 | 17.38 | 18.23 | 11.69 |
| 35.63 | 79.13 | 15.36 | 16.27 | 14.41 | 15.98 | 14.84 | 14.75 | 12.61 | 15.6 | 23.16 | 21.51 | 12.34 | 23.93 | 13.33 | 18.04 | 21.48 | 12.78 |
| 35.63 | 79.38 | 17.04 | 17.55 | 15.49 | 17.88 | 17.08 | 16.03 | 13.36 | 18.23 | 25.43 | 26.51 | 13.44 | 26.93 | 13.64 | 18.64 | 24.62 | 14.49 |
| 35.63 | 79.63 | 19.35 | 19.71 | 18.48 | 20.74 | 20.87 | 17.89 | 14.77 | 21.79 | 29.57 | 34.68 | 15.56 | 31.65 | 14.17 | 19.53 | 28.38 | 17.36 |
| 35.63 | 79.88 | 22.04 | 22.45 | 23.7 | 23.92 | 26.61 | 19.98 | 17.83 | 25.96 | 34.28 | 44.55 | 18.25 | 36.81 | 14.79 | 20.43 | 31.59 | 21.17 |
| 35.63 | 80.13 | 23.97 | 23.45 | 26.64 | 24.83 | 27.45 | 21.45 | 19.35 | 28.67 | 35.21 | 47.34 | 19.25 | 39.34 | 15.08 | 20.27 | 31.54 | 23.44 |
| 35.38 | 73.88 | 15.61 | 12.36 | 20.33 | 27.03 | 34.48 | 45.65 | 40.84 | 37.13 | 25.24 | 31.7 | 15.53 | 35.47 | 53.88 | 30.69 | 31.62 | 17.76 |

| Lattitude | Longitude | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Table date from the year 2005 to 2020 Continued* | | | | | | | | | | | | | | | | | |
| 35.38 | 74.13 | 15.02 | 12.61 | 19.4 | 26.82 | 32.4 | 43.84 | 38.83 | 36.8 | 24.28 | 31.7 | 14.65 | 37.13 | 45.88 | 31.85 | 30.49 | 17.79 |
| 35.38 | 74.38 | 15.18 | 12.44 | 16.74 | 23.74 | 28.19 | 34.82 | 32.84 | 33.12 | 20.92 | 30.59 | 13.79 | 36.65 | 40.64 | 32.71 | 26.09 | 16.77 |
| 35.38 | 74.63 | 15.59 | 12.91 | 16.28 | 17.56 | 22.88 | 20.46 | 24.35 | 25.7 | 17.03 | 24.93 | 14.02 | 36.14 | 35.22 | 26.18 | 20.78 | 15.31 |
| 35.38 | 74.88 | 16.18 | 14.46 | 17.79 | 13.51 | 20.45 | 16.7 | 17.1 | 20.52 | 13.98 | 22.42 | 14.76 | 30.39 | 28.19 | 23.47 | 17.23 | 14.6 |
| 35.38 | 75.13 | 16.78 | 15.55 | 19.37 | 13.38 | 20.24 | 17.1 | 15.93 | 22.78 | 13.26 | 21.94 | 15.48 | 29.59 | 27.5 | 23.87 | 17.06 | 15.45 |
| 35.38 | 75.38 | 17.67 | 18.26 | 22.88 | 15.12 | 21.8 | 19.33 | 16.76 | 27.75 | 14.19 | 23.74 | 16.49 | 35.61 | 30.14 | 25.54 | 19.72 | 19.45 |
| 35.38 | 75.63 | 20.03 | 23.89 | 32.4 | 17.81 | 25.51 | 21.22 | 18.49 | 34.34 | 15.32 | 26.18 | 17.42 | 47.97 | 30.93 | 28.46 | 21.51 | 28.01 |
| 35.38 | 75.88 | 22.08 | 27.44 | 38.43 | 19.36 | 26.97 | 22.89 | 19.62 | 37.48 | 16.16 | 27.58 | 18.12 | 50.58 | 31.89 | 28.26 | 22.57 | 34.56 |
| 35.38 | 76.13 | 22.11 | 27.35 | 38.87 | 19.53 | 27.14 | 23.38 | 18.94 | 37.12 | 16.33 | 26.56 | 18.51 | 51.14 | 32.07 | 27.54 | 22.38 | 35.91 |
| 35.38 | 76.38 | 22.05 | 27.3 | 38.85 | 19.28 | 26.69 | 23.06 | 18.72 | 36.2 | 16 | 26.18 | 18.53 | 50.95 | 32.32 | 26.85 | 22.02 | 35.73 |
| 35.38 | 76.63 | 22.04 | 27.36 | 38.68 | 18.39 | 26.28 | 21.34 | 19 | 34.92 | 15.01 | 26.03 | 18.37 | 49.73 | 32.54 | 25.93 | 21.48 | 34.58 |
| 35.38 | 76.88 | 21.96 | 27.29 | 37.15 | 17.39 | 26.19 | 19.19 | 18.45 | 31.63 | 14.16 | 24.93 | 18.09 | 43.71 | 32.39 | 23.07 | 20.74 | 31.6 |
| 35.38 | 77.13 | 22.19 | 27.24 | 36.63 | 16.51 | 25.53 | 16.8 | 16.99 | 28.39 | 13.67 | 23.01 | 17.34 | 35.13 | 29.97 | 20.16 | 19.79 | 28.44 |
| 35.38 | 77.38 | 22.82 | 27.75 | 32.84 | 15.49 | 24 | 14.25 | 13.83 | 27.85 | 13.69 | 20.22 | 15.85 | 26.65 | 21.39 | 19.86 | 17.44 | 22.12 |
| 35.38 | 77.63 | 21.09 | 27.6 | 27.51 | 13.76 | 20.65 | 12.21 | 11 | 17.53 | 14.46 | 16.03 | 13.6 | 20.1 | 14.23 | 19.55 | 10.95 | 13.51 |
| 35.38 | 77.88 | 18.37 | 25.83 | 24.62 | 12.53 | 12.94 | 11.32 | 10.42 | 10.79 | 15.39 | 11.9 | 11.25 | 17.89 | 13.57 | 17.05 | 11.21 | 12.18 |
| 35.38 | 78.13 | 16.22 | 22.4 | 22.53 | 11.8 | 11.57 | 11.35 | 10.72 | 10.41 | 15.55 | 11.29 | 11.46 | 17.29 | 12.84 | 15.27 | 11.81 | 11.48 |
| 35.38 | 78.38 | 14.28 | 17.81 | 18.76 | 11.98 | 11.57 | 11.35 | 10.65 | 10.66 | 14.91 | 11.63 | 11.47 | 17.13 | 12.42 | 14.28 | 12.25 | 10.87 |
| 35.38 | 78.63 | 13.1 | 14.42 | 15.19 | 12.17 | 11.53 | 11.43 | 10.51 | 10.96 | 14.56 | 11.93 | 10.96 | 17.09 | 12.18 | 13.93 | 12.8 | 10.45 |
| 35.38 | 78.88 | 13.03 | 13.3 | 12.95 | 12.51 | 11.62 | 11.82 | 10.44 | 11.61 | 14.78 | 12.68 | 10.66 | 17.7 | 12.14 | 13.95 | 13.73 | 10.45 |
| 35.38 | 79.13 | 13.68 | 13.58 | 12.23 | 13.13 | 12.01 | 12.54 | 10.44 | 12.8 | 15.45 | 14.11 | 10.64 | 19.25 | 12.26 | 14.17 | 15.04 | 10.87 |
| 35.38 | 79.38 | 14.9 | 14.23 | 12.32 | 14.14 | 12.75 | 13.63 | 10.51 | 14.62 | 16.65 | 16.5 | 10.95 | 21.55 | 12.55 | 14.61 | 16.64 | 11.86 |
| 35.38 | 79.63 | 16.9 | 15.63 | 13.31 | 15.92 | 14.54 | 15.43 | 11.02 | 17.48 | 19.69 | 21.3 | 12.1 | 25.59 | 13.15 | 15.55 | 19.07 | 14.05 |
| 35.38 | 79.88 | 20.02 | 18.59 | 17.08 | 19.43 | 18.64 | 18.17 | 12.29 | 22.05 | 26.09 | 31.2 | 14.7 | 32 | 14.17 | 17.19 | 22.71 | 18.67 |
| 35.38 | 80.13 | 23.42 | 22 | 23.97 | 23.1 | 24.23 | 20.94 | 16.49 | 27.05 | 32.29 | 41.97 | 17.7 | 37.86 | 15.18 | 18.59 | 25.36 | 23 |
| 35.13 | 74.13 | 15.76 | 11.11 | 17.98 | 23.86 | 30.62 | 39.18 | 30.24 | 29.61 | 20.52 | 30.61 | 13.69 | 33.55 | 41.39 | 30.11 | 23.13 | 16.55 |
| 35.13 | 74.38 | 13.48 | 11.21 | 13.31 | 18.87 | 25.75 | 25.34 | 23.69 | 21.56 | 16.11 | 23.76 | 13.33 | 28.75 | 32.62 | 23.26 | 17.62 | 14.97 |
| 35.13 | 74.63 | 13.19 | 11.79 | 12.89 | 13.69 | 19.04 | 14.1 | 17.02 | 15.86 | 13.19 | 19.96 | 13.62 | 24.02 | 23.59 | 17.54 | 14.65 | 14.02 |
| 35.13 | 74.88 | 13.55 | 12.49 | 13.37 | 12.53 | 16.2 | 12.84 | 14.37 | 14.67 | 12.11 | 17.65 | 13.97 | 21.47 | 21.44 | 15.34 | 13.4 | 13.88 |
| 35.13 | 75.13 | 14.45 | 13.48 | 14.57 | 12.86 | 17.39 | 13.95 | 14.25 | 17.43 | 12.22 | 18.37 | 14.91 | 23.58 | 23.69 | 17.08 | 14.33 | 15.33 |
| 35.13 | 75.38 | 16.47 | 16.48 | 18.5 | 14.72 | 21.78 | 17.04 | 15.58 | 22.91 | 13.4 | 21.32 | 16.53 | 31.11 | 29.28 | 22.84 | 17.77 | 19.61 |
| 35.13 | 75.63 | 19.77 | 22.48 | 28.43 | 16.93 | 25.01 | 20.85 | 17.43 | 31.45 | 15.3 | 24.68 | 17.66 | 46.96 | 31.43 | 25.56 | 20.62 | 27.41 |
| 35.13 | 75.88 | 22.27 | 26.82 | 35.44 | 18.48 | 26.44 | 22.95 | 18.78 | 34.61 | 16.25 | 26.41 | 18.31 | 48.86 | 32.49 | 26.51 | 21.86 | 33.32 |
| 35.13 | 76.13 | 22.52 | 27.11 | 36.66 | 18.72 | 26.23 | 23.38 | 18.49 | 34.33 | 16.66 | 25.69 | 18.63 | 49.14 | 32.59 | 26.38 | 21.69 | 34.84 |
| 35.13 | 76.38 | 22.28 | 26.83 | 35.5 | 18.64 | 25.74 | 23.37 | 18.17 | 32.82 | 16.97 | 24.98 | 18.79 | 48.82 | 32.76 | 26.1 | 21.32 | 33.82 |
| 35.13 | 76.63 | 22.47 | 27.1 | 35.01 | 18.55 | 25.38 | 22.74 | 18.37 | 31.71 | 16.92 | 25.01 | 18.79 | 48.98 | 32.94 | 26.09 | 21.09 | 32.19 |
| 35.13 | 76.88 | 23 | 27.48 | 35.19 | 18.33 | 25.48 | 21.26 | 19.14 | 31.61 | 16.27 | 25.27 | 18.7 | 48.32 | 33.1 | 25.97 | 20.96 | 31.4 |
| 35.13 | 77.13 | 24.09 | 27.52 | 36.6 | 18.03 | 26.12 | 19.57 | 18.98 | 34 | 15.05 | 25.09 | 18.3 | 44.22 | 33.17 | 24.91 | 21.09 | 33.76 |
| 35.13 | 77.38 | 24.96 | 27.76 | 30.41 | 17.88 | 26.72 | 17.71 | 17.5 | 38.7 | 14.12 | 24.52 | 17.35 | 36.89 | 32.86 | 22.09 | 21.13 | 35.27 |
| 35.13 | 77.63 | 24.09 | 27.62 | 27.51 | 16.46 | 25.32 | 15.5 | 14.8 | 37.37 | 13.71 | 21.95 | 16.14 | 31.65 | 27.74 | 18.67 | 19.86 | 32.97 |
| 35.13 | 77.88 | 21.27 | 27.16 | 25.79 | 14.23 | 21.45 | 12.8 | 11.73 | 19.33 | 14.59 | 16.85 | 14.04 | 27.16 | 18.14 | 19.13 | 14.66 | 18.46 |
| 35.13 | 78.13 | 17.81 | 25.34 | 23.7 | 12.72 | 13.11 | 11.15 | 10.37 | 10.87 | 14.14 | 12 | 10.96 | 17.3 | 12.64 | 14.74 | 11.96 | 11.47 |
| 35.13 | 78.38 | 16.45 | 21.72 | 22.33 | 11.92 | 11.6 | 10.98 | 10.41 | 10.71 | 13.55 | 11.3 | 10.84 | 16.75 | 12.06 | 13.28 | 12.14 | 10.92 |
| 35.13 | 78.63 | 14.37 | 16.57 | 18.02 | 11.84 | 11.41 | 10.84 | 10.3 | 10.95 | 12.62 | 11.33 | 10.79 | 16.24 | 11.93 | 12.7 | 11.93 | 10.34 |
| 35.13 | 78.88 | 12.99 | 12.87 | 13.25 | 11.66 | 11.27 | 10.75 | 10.15 | 11.12 | 12.03 | 11.25 | 10.63 | 15.67 | 11.88 | 12.3 | 11.71 | 10.05 |
| 35.13 | 79.13 | 12.85 | 12.28 | 11.69 | 11.72 | 11.33 | 10.91 | 10.06 | 11.52 | 11.82 | 11.47 | 10.48 | 15.9 | 11.91 | 12.12 | 11.77 | 10.15 |
| 35.13 | 79.38 | 13.23 | 12.32 | 11.36 | 12.07 | 11.58 | 11.41 | 10.02 | 12.36 | 12.05 | 12.18 | 10.37 | 17.16 | 12.12 | 12.18 | 12.15 | 10.57 |
| 35.13 | 79.63 | 14.23 | 12.69 | 11.16 | 12.79 | 12.21 | 12.52 | 10.06 | 13.9 | 13.24 | 13.92 | 10.53 | 19.77 | 12.62 | 12.61 | 13 | 11.64 |
| 35.13 | 79.88 | 16.37 | 13.97 | 12.04 | 14.3 | 13.8 | 14.67 | 10.06 | 16.76 | 16.46 | 18.15 | 11.37 | 24.61 | 13.6 | 13.65 | 14.7 | 14.32 |
| 35.13 | 80.13 | 19.96 | 16.67 | 16.14 | 17.17 | 17.47 | 18.01 | 11.65 | 21.76 | 22.49 | 26.88 | 13.5 | 31.75 | 15.13 | 15.4 | 17.33 | 18.66 |
| 34.88 | 74.13 | 17.79 | 10.2 | 17.56 | 17.79 | 22.39 | 22.45 | 20.11 | 16.61 | 14.39 | 21.41 | 12.82 | 22.88 | 23.22 | 19.82 | 14.45 | 14.34 |
| 34.88 | 74.38 | 14.49 | 10.39 | 14.3 | 14.15 | 18.17 | 15.11 | 17.2 | 14.28 | 13.06 | 18.71 | 12.78 | 21.73 | 19.95 | 15.57 | 13.36 | 13.34 |
| 34.88 | 74.63 | 13.02 | 10.96 | 12.93 | 11.63 | 15.28 | 11.68 | 14.54 | 12.97 | 12.07 | 16.17 | 12.76 | 17.78 | 18.06 | 11.84 | 11.95 | 12.81 |
| 34.88 | 74.88 | 12.7 | 11.19 | 12.61 | 11.07 | 14.29 | 11.09 | 13.3 | 12.89 | 11.45 | 14.5 | 12.81 | 16.16 | 17.15 | 10.83 | 11.37 | 12.89 |
| 34.88 | 75.13 | 12.72 | 11.35 | 12.57 | 11.14 | 14.05 | 11.27 | 12.6 | 13.48 | 11.41 | 14.32 | 13.14 | 16.47 | 17.46 | 10.83 | 11.38 | 13.57 |
| 34.88 | 75.38 | 13.48 | 12.22 | 13.22 | 12.23 | 15.56 | 12.21 | 13 | 15.25 | 11.85 | 15.73 | 14.11 | 19.54 | 20.7 | 12.74 | 12.57 | 16.07 |
| 34.88 | 75.63 | 16.03 | 15.36 | 16.06 | 14.68 | 19.8 | 15.25 | 15.11 | 19.23 | 13.27 | 19.26 | 16.31 | 29.99 | 28.4 | 19.2 | 16.08 | 20.8 |
| 34.88 | 75.88 | 19.53 | 20.64 | 22.84 | 16.16 | 24.35 | 20.11 | 17.06 | 26.84 | 15.4 | 22.57 | 18.19 | 45.25 | 31.53 | 22.86 | 19.34 | 26.98 |
| 34.88 | 76.13 | 22.28 | 24.54 | 31.96 | 17.61 | 25.35 | 22.58 | 17.94 | 29.42 | 17.4 | 24.08 | 18.87 | 47.17 | 32.76 | 25.01 | 20.63 | 29.98 |
| 34.88 | 76.38 | 23.51 | 26.06 | 35.26 | 18.3 | 25.17 | 23.17 | 18.18 | 29.93 | 18.05 | 23.94 | 19.18 | 48.09 | 33.05 | 25.72 | 20.83 | 30.41 |
| 34.88 | 76.63 | 24 | 26.84 | 36.21 | 18.49 | 24.98 | 23.43 | 18.26 | 29.79 | 18.3 | 23.98 | 19.27 | 48.54 | 33.23 | 26.21 | 20.82 | 30.13 |

| Lattitude | Longitude | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Table date from the year 2005 to 2020 Continued* | | | | | | | | | | | | | | | | | |
| 34.88 | 76.88 | 25.12 | 27.25 | 37.65 | 18.59 | 25.12 | 22.99 | 18.38 | 31.53 | 17.71 | 24.63 | 19.07 | 47.63 | 33.51 | 26.22 | 20.96 | 31.38 |
| 34.88 | 77.13 | 26.64 | 27.08 | 36.57 | 18.92 | 26.26 | 21.68 | 19.28 | 37.8 | 16.64 | 25.7 | 18.66 | 45.63 | 33.94 | 25.25 | 21.26 | 34.87 |
| 34.88 | 77.38 | 26.83 | 26.28 | 29.43 | 19.34 | 28.45 | 20.26 | 21.05 | 44.95 | 16.17 | 26.23 | 18.09 | 46.33 | 34.44 | 24.7 | 21.6 | 35.12 |
| 34.88 | 77.63 | 26.5 | 26.45 | 27.62 | 18.71 | 27.89 | 18.51 | 18.8 | 44.89 | 15.04 | 25.37 | 17.29 | 47.96 | 35.15 | 22.74 | 21.93 | 34.34 |
| 34.88 | 77.88 | 24.85 | 27.11 | 26.42 | 16.55 | 25.43 | 15.92 | 15.16 | 39.73 | 13.75 | 22.69 | 15.93 | 53.01 | 35.03 | 21.66 | 25.01 | 31.14 |
| 34.88 | 78.13 | 19.74 | 26.7 | 24.76 | 13.22 | 21.28 | 12.29 | 11.85 | 17.22 | 13.09 | 16.12 | 12.94 | 50.1 | 32.13 | 29.97 | 25.48 | 21.34 |
| 34.88 | 78.38 | 17.65 | 24.2 | 23.3 | 11.53 | 12.67 | 10.34 | 10.3 | 11.2 | 11.42 | 11.17 | 11.04 | 44.11 | 20.07 | 24.23 | 19.23 | 14.98 |
| 34.88 | 78.63 | 15.39 | 18.95 | 20.63 | 11.33 | 11.81 | 10.13 | 10.21 | 11.49 | 10.89 | 11.08 | 11.85 | 18.1 | 12.93 | 14.05 | 11.17 | 11.53 |
| 34.88 | 78.88 | 12.38 | 12.96 | 13.26 | 11.24 | 11.88 | 10.08 | 9.94 | 11.66 | 10.8 | 11.14 | 12.12 | 14.12 | 12.61 | 12.1 | 11.21 | 10.28 |
| 34.88 | 79.13 | 11.64 | 11.74 | 11.34 | 11.12 | 11.87 | 10.05 | 9.74 | 11.67 | 10.75 | 11.13 | 12.01 | 12.91 | 12.57 | 11.49 | 11.25 | 10.38 |
| 34.88 | 79.38 | 11.67 | 11.81 | 11.09 | 11.18 | 11.97 | 10.14 | 9.64 | 11.91 | 10.87 | 11.35 | 12.01 | 13.35 | 12.74 | 11.42 | 11.49 | 10.65 |
| 34.88 | 79.63 | 12.07 | 12.15 | 10.64 | 11.36 | 12.27 | 10.49 | 9.61 | 12.59 | 11.43 | 12.08 | 12.45 | 14.96 | 13.3 | 11.76 | 12.1 | 11.01 |
| 34.88 | 79.88 | 13.15 | 12.95 | 10.35 | 11.83 | 13.05 | 11.45 | 9.81 | 14.08 | 12.91 | 14 | 13.6 | 18.23 | 14.46 | 12.65 | 13.36 | 11.93 |
| 34.63 | 73.88 | 15.63 | 12.04 | 14.71 | 12.89 | 14.16 | 17.83 | 13.31 | 14.73 | 13.75 | 15.6 | 10.81 | 13.64 | 13.27 | 12.87 | 11.55 | 12.67 |
| 34.63 | 74.13 | 19.98 | 10.19 | 18.75 | 14.22 | 18.52 | 16.44 | 16.96 | 13.81 | 13.07 | 18.14 | 12.42 | 19.78 | 18.01 | 15.75 | 12.65 | 13.59 |
| 34.63 | 74.38 | 17.44 | 10 | 17.78 | 12.53 | 16.78 | 13.41 | 15.99 | 13.16 | 12.66 | 17.36 | 12.95 | 20.17 | 17.9 | 14.13 | 12.34 | 13.35 |
| 34.63 | 74.63 | 15.02 | 10.44 | 15.81 | 11.28 | 15.13 | 11.51 | 14.42 | 12.85 | 11.99 | 15.59 | 13.08 | 17.76 | 17.44 | 11.7 | 11.57 | 13.22 |
| 34.63 | 74.88 | 13.64 | 10.57 | 14.23 | 10.92 | 13.82 | 10.94 | 12.99 | 12.82 | 11.46 | 13.98 | 12.87 | 15.77 | 16 | 10.6 | 10.99 | 13.26 |
| 34.63 | 75.13 | 12.68 | 10.41 | 12.79 | 10.66 | 12.61 | 10.78 | 11.91 | 12.37 | 11.14 | 12.94 | 12.51 | 14.38 | 14.91 | 10.15 | 10.52 | 12.98 |
| 34.63 | 75.38 | 12.88 | 10.68 | 12.82 | 10.93 | 13.03 | 11.13 | 11.95 | 12.97 | 11.35 | 13.21 | 12.85 | 15.31 | 16.15 | 10.4 | 10.8 | 13.9 |
| 34.63 | 75.63 | 14.88 | 11.88 | 14.81 | 12.93 | 15.49 | 12.86 | 13.31 | 15.39 | 12.33 | 15.68 | 14.58 | 21.63 | 22.09 | 13.74 | 12.97 | 17.83 |
| 34.63 | 75.88 | 18.66 | 15.15 | 20.95 | 15.36 | 21.41 | 17.2 | 16.2 | 20.27 | 14.24 | 19.91 | 17.63 | 40.97 | 30.58 | 20.79 | 17.13 | 24.38 |
| 34.63 | 76.13 | 22.87 | 19.38 | 37.07 | 17.35 | 25 | 22.23 | 17.56 | 26.92 | 17.25 | 23.07 | 19.05 | 46.24 | 32.92 | 23.96 | 19.76 | 27.88 |
| 34.63 | 76.38 | 25.4 | 22.7 | 45.07 | 18.44 | 24.89 | 23.71 | 18.35 | 29.26 | 18.86 | 23.63 | 19.59 | 48.41 | 33.6 | 26.13 | 20.97 | 29.69 |
| 34.63 | 76.63 | 25.81 | 23.82 | 43.62 | 18.63 | 24.82 | 24.03 | 18.03 | 29.92 | 18.69 | 23.8 | 19.4 | 48.53 | 33.73 | 26.08 | 20.96 | 30.09 |
| 34.63 | 76.88 | 27.45 | 24.15 | 44.09 | 19.11 | 25.1 | 24.23 | 17.11 | 33.79 | 17.65 | 24.38 | 18.84 | 46.71 | 34.07 | 25.33 | 21.1 | 32.05 |
| 34.63 | 77.13 | 29.45 | 23.73 | 35.26 | 19.66 | 26.66 | 23.04 | 18.73 | 41.62 | 16.71 | 25.76 | 18.46 | 45.84 | 34.81 | 25 | 21.62 | 33.48 |
| 34.63 | 77.38 | 29.57 | 23.53 | 30.52 | 19.95 | 28.56 | 21.71 | 21.82 | 47.48 | 16.6 | 26.82 | 18.21 | 49.39 | 35.96 | 23.62 | 22.47 | 33.05 |
| 34.63 | 77.63 | 28.9 | 24.91 | 27.81 | 19.44 | 29.13 | 20.74 | 21.58 | 48.07 | 16.44 | 26.56 | 17.68 | 61.37 | 40.12 | 25.1 | 26.37 | 31.69 |
| 34.63 | 77.88 | 26.57 | 26.21 | 26.03 | 17.63 | 26.68 | 18.6 | 17.75 | 44.3 | 15.49 | 25.1 | 16.47 | 54.53 | 45.76 | 38.14 | 29.94 | 29.1 |
| 34.63 | 78.13 | 20.55 | 25.82 | 24.93 | 13.65 | 24.22 | 15.6 | 13.69 | 27.18 | 14.3 | 20.66 | 13.95 | 52.08 | 46.14 | 45.04 | 29.63 | 24.84 |
| 34.63 | 78.38 | 17.07 | 23.21 | 24.29 | 12.07 | 17.16 | 12.11 | 10.39 | 14.94 | 12.56 | 13.6 | 12.81 | 50.53 | 33.11 | 38.56 | 26.21 | 26.43 |
| 34.63 | 78.63 | 14.78 | 18.31 | 21.57 | 11.28 | 14.49 | 11.54 | 9.71 | 14.06 | 12.12 | 12.5 | 14.38 | 36.59 | 19.22 | 25.37 | 15.52 | 19.52 |
| 34.63 | 78.88 | 12.15 | 13.61 | 13.01 | 11.2 | 14.05 | 11.41 | 9.57 | 13.88 | 11.96 | 12.53 | 14.7 | 16.98 | 15.46 | 15.94 | 15.26 | 13.95 |
| 34.63 | 79.13 | 11.68 | 12.95 | 12.03 | 11.04 | 13.59 | 10.99 | 9.48 | 13.48 | 11.68 | 12.31 | 14.41 | 12.69 | 14.65 | 12.62 | 14.06 | 13.01 |
| 34.63 | 79.38 | 11.58 | 13.28 | 11.75 | 11.08 | 13.47 | 11.01 | 9.53 | 13.61 | 11.85 | 12.58 | 14.77 | 12.34 | 14.75 | 12.14 | 14.25 | 12.41 |
| 34.63 | 79.63 | 11.61 | 14.06 | 11.16 | 11.32 | 13.59 | 11.58 | 9.79 | 14.59 | 12.65 | 13.56 | 16.11 | 13.6 | 15.56 | 12.74 | 15.22 | 11.96 |
| 34.38 | 73.63 | 14.84 | 13.5 | 13.91 | 12.44 | 11.93 | 18.44 | 12.41 | 15.07 | 14.78 | 13.88 | 10.67 | 12.86 | 12.59 | 13.31 | 11.74 | 12.54 |
| 34.38 | 73.88 | 16.8 | 11.69 | 15.18 | 12.13 | 12.87 | 16.47 | 12.52 | 13.83 | 13.4 | 14.74 | 10.7 | 13.33 | 12.33 | 12 | 10.77 | 12.37 |
| 34.38 | 74.13 | 20.92 | 10.34 | 19.66 | 13.06 | 17.15 | 14.92 | 15.68 | 13.14 | 12.94 | 17.04 | 12.11 | 18.18 | 17.1 | 13.72 | 11.77 | 13.43 |
| 34.38 | 74.38 | 19.61 | 10 | 20.72 | 12.22 | 16.73 | 13.08 | 15.66 | 13.06 | 12.73 | 16.97 | 13.07 | 20.13 | 17.96 | 13.84 | 12.11 | 13.43 |
| 34.38 | 74.63 | 17.31 | 10.25 | 20.1 | 11.11 | 15.46 | 11.81 | 14.01 | 13.15 | 11.75 | 15.7 | 13.48 | 18.83 | 17.65 | 12.37 | 11.67 | 13.54 |
| 34.38 | 74.88 | 14.34 | 10.17 | 16.25 | 10.39 | 12.96 | 11.47 | 11.94 | 12.63 | 10.99 | 13.96 | 13.04 | 16.4 | 15.86 | 11.29 | 10.87 | 13.59 |
| 34.38 | 75.13 | 12.61 | 9.83 | 13.09 | 10.2 | 11.78 | 10.9 | 11.21 | 11.72 | 10.78 | 12.47 | 12.31 | 13.98 | 14.28 | 10.18 | 10.16 | 12.78 |
| 34.38 | 75.38 | 12.84 | 10.08 | 13.01 | 10.6 | 12.17 | 10.94 | 11.48 | 12.23 | 11.1 | 12.47 | 12.47 | 14.3 | 14.85 | 10.14 | 10.39 | 13.32 |
| 34.38 | 75.63 | 14.62 | 10.6 | 14.96 | 11.7 | 14.02 | 12.02 | 12.39 | 13.96 | 11.85 | 14 | 13.73 | 18.57 | 19.3 | 11.62 | 11.74 | 16.2 |
| 34.38 | 75.88 | 18.02 | 12.1 | 20.91 | 14.54 | 18.01 | 15.22 | 14.99 | 17.38 | 13.43 | 18.01 | 16.43 | 35.88 | 29.08 | 19.2 | 15.48 | 22.09 |
| 34.38 | 76.13 | 21.98 | 14.5 | 37.15 | 16.29 | 23.82 | 19.83 | 16.46 | 24.23 | 15.79 | 21.53 | 18.42 | 44.79 | 32.56 | 22.21 | 18.35 | 26.13 |
| 34.38 | 76.38 | 25.26 | 16.91 | 51.54 | 18.14 | 24.92 | 22.6 | 17.9 | 28.51 | 18.35 | 23.76 | 18.9 | 47.81 | 33.6 | 24.97 | 20.58 | 28.15 |
| 34.38 | 76.63 | 26.89 | 18.46 | 54.24 | 18.36 | 25.01 | 22.52 | 18.17 | 31.37 | 18.08 | 24.25 | 18.73 | 47.79 | 34.09 | 25.42 | 21.59 | 29.43 |
| 34.38 | 76.88 | 29.5 | 18.92 | 47.36 | 18.77 | 25.59 | 22.61 | 18.16 | 37.25 | 17.18 | 24.85 | 18.27 | 46.71 | 34.87 | 25 | 22.49 | 31.44 |
| 34.38 | 77.13 | 31.78 | 19.08 | 38.09 | 19.6 | 27.17 | 22.4 | 20.03 | 44.51 | 16.67 | 25.92 | 18.15 | 49.29 | 36.34 | 24.49 | 24.12 | 31.63 |
| 34.38 | 77.38 | 32.34 | 20.17 | 32.87 | 19.92 | 28.74 | 21.93 | 21.97 | 48.14 | 16.57 | 26.87 | 18.02 | 58.08 | 39.38 | 25.93 | 27.02 | 30.78 |
| 34.38 | 77.63 | 30.33 | 22.43 | 28.69 | 19.32 | 29.09 | 21.44 | 21.89 | 49.02 | 16.38 | 26.84 | 17.42 | 54.63 | 47.18 | 37.71 | 30.04 | 29.42 |
| 34.38 | 77.88 | 25.72 | 23.45 | 26.25 | 16.78 | 26.82 | 19.99 | 18.44 | 45.58 | 16.16 | 25.59 | 15.59 | 52.16 | 47.9 | 45.98 | 30.81 | 25.76 |
| 34.38 | 78.13 | 19.88 | 22.13 | 25.34 | 13.53 | 24.63 | 17.87 | 13.82 | 28.73 | 16.28 | 21.73 | 14.17 | 51.51 | 44.22 | 45.61 | 30.13 | 24.1 |
| 34.38 | 78.38 | 15.95 | 19.5 | 24.37 | 12.38 | 19.63 | 15.69 | 11.31 | 19.62 | 15.14 | 16.26 | 14.03 | 51 | 36.29 | 42.39 | 26.84 | 26.64 |
| 34.38 | 78.63 | 13.89 | 16.2 | 18.05 | 11.77 | 14.89 | 14.13 | 9.84 | 15.8 | 13.8 | 13.03 | 15.29 | 40.42 | 25.77 | 33.2 | 16.98 | 28.52 |
| 34.38 | 78.88 | 12.94 | 14.11 | 13.44 | 11.6 | 14.02 | 13.56 | 9.59 | 15.07 | 13.22 | 13 | 16 | 30.83 | 18.76 | 23.15 | 16.73 | 23.41 |
| 34.38 | 79.13 | 12.8 | 13.96 | 12.56 | 11.44 | 13.89 | 12.98 | 9.55 | 14.89 | 12.93 | 13.07 | 16.17 | 17.54 | 17.14 | 15.58 | 17.22 | 16.45 |
| 34.38 | 79.38 | 12.77 | 14.88 | 12.25 | 11.54 | 14.27 | 13.19 | 9.78 | 15.81 | 13.32 | 13.89 | 17.21 | 15.29 | 17.59 | 14.27 | 18.64 | 14.31 |

| Lattitude | Longitude | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Table date from the year 2005 to 2020 Continued* | | | | | | | | | | | | | | | | | |
| 34.13 | 73.63 | 14.64 | 12.32 | 13.62 | 11.89 | 11.88 | 17.19 | 11.96 | 14.28 | 14.45 | 13.92 | 10.8 | 13.15 | 12.11 | 13.29 | 10.74 | 11.78 |
| 34.13 | 73.88 | 16.82 | 11.24 | 14.71 | 11.87 | 12.54 | 15.32 | 11.92 | 13.29 | 13.34 | 14.7 | 10.77 | 13.72 | 12.31 | 11.65 | 10.28 | 12.2 |
| 34.13 | 74.13 | 18.95 | 10.46 | 17.69 | 11.7 | 14.55 | 13.41 | 12.89 | 12.72 | 12.51 | 15.74 | 11.55 | 15.41 | 14.38 | 11.24 | 10.63 | 13.04 |
| 34.13 | 74.38 | 18.81 | 10.13 | 19.9 | 11.07 | 15.51 | 12.3 | 13.41 | 12.74 | 11.97 | 15.57 | 12.58 | 16.91 | 16.47 | 11.94 | 11.25 | 13.28 |
| 34.13 | 74.63 | 18.55 | 10.66 | 22.73 | 11.34 | 16.11 | 12.69 | 12.88 | 13.93 | 11.83 | 15.38 | 13.6 | 18.65 | 18.11 | 13.69 | 12.15 | 14.03 |
| 34.13 | 74.88 | 15.63 | 11.03 | 20 | 10.73 | 12.93 | 13.2 | 11.19 | 13.04 | 11.28 | 14.31 | 13.54 | 17.84 | 17.14 | 13.75 | 11.8 | 14.88 |
| 34.13 | 75.13 | 13.09 | 10.01 | 14.55 | 10.03 | 11.38 | 11.78 | 10.77 | 11.65 | 10.67 | 12.91 | 12.73 | 15.63 | 15.44 | 11.47 | 10.49 | 14.14 |
| 34.13 | 75.38 | 12.88 | 9.85 | 13.39 | 10.26 | 11.66 | 11.01 | 11.06 | 11.85 | 10.81 | 12.39 | 12.43 | 14.89 | 15.16 | 10.29 | 10.33 | 13.95 |
| 34.13 | 75.63 | 14.28 | 10.2 | 14.88 | 11.01 | 13.09 | 11.42 | 11.82 | 13.24 | 11.38 | 13.33 | 13.13 | 17.47 | 17.97 | 11.01 | 11.26 | 15.92 |
| 34.13 | 75.88 | 17.24 | 11.1 | 19.72 | 13.45 | 16.16 | 13.24 | 13.67 | 15.9 | 12.54 | 16.33 | 15.04 | 29.22 | 26.2 | 17.07 | 14.02 | 20.3 |
| 34.13 | 76.13 | 20.77 | 12.54 | 30.82 | 15.35 | 21.38 | 16.41 | 16.28 | 20.53 | 14.19 | 19.98 | 17.31 | 43.06 | 31.96 | 21.14 | 17.12 | 24.58 |
| 34.13 | 76.38 | 23.94 | 13.87 | 52.1 | 16.73 | 25.07 | 19.93 | 17.95 | 27.09 | 16.45 | 23.17 | 18.05 | 47.6 | 33.28 | 23.73 | 19.74 | 26.32 |
| 34.13 | 76.63 | 27.31 | 14.84 | 56.66 | 17.99 | 25.41 | 20.79 | 19.06 | 32.72 | 17.41 | 24.91 | 18.21 | 49.34 | 34.59 | 24.43 | 22.53 | 28.52 |
| 34.13 | 76.88 | 32.01 | 15.15 | 51.8 | 18.78 | 26.46 | 21.26 | 20.13 | 40.41 | 16.71 | 25.7 | 18.17 | 51.45 | 36.4 | 25.02 | 24.89 | 30.65 |
| 34.13 | 77.13 | 34.53 | 15.66 | 42.97 | 19.74 | 28.03 | 21.72 | 21.74 | 46.71 | 16.63 | 26.53 | 18.14 | 57.35 | 39.4 | 29.41 | 27.66 | 30.16 |
| 34.13 | 77.38 | 34.42 | 16.92 | 36.7 | 19.79 | 29.31 | 21.76 | 22.27 | 48.82 | 16.55 | 27.02 | 17.83 | 56.31 | 45.83 | 40.39 | 29.51 | 29.43 |
| 34.13 | 77.63 | 30.99 | 18.55 | 31.65 | 18.57 | 28.24 | 20.99 | 20.73 | 47.83 | 16.29 | 26.56 | 16.26 | 52.77 | 57.46 | 49.22 | 29.87 | 28.69 |
| 34.13 | 77.88 | 24.96 | 18.8 | 29.31 | 15.08 | 25.7 | 19.7 | 16.43 | 38.64 | 16.26 | 24.63 | 14.9 | 51.81 | 49.36 | 48.13 | 30.65 | 25.41 |
| 34.13 | 78.13 | 19.56 | 17.72 | 27.92 | 12.64 | 22.64 | 17.96 | 12.96 | 25.55 | 16.66 | 20.46 | 14.13 | 51.53 | 44.42 | 46.21 | 31.24 | 24.86 |
| 34.13 | 78.38 | 15.31 | 16.27 | 20.83 | 12.28 | 19.23 | 16.95 | 11.44 | 19.61 | 15.67 | 16.16 | 14.32 | 51.18 | 37.29 | 43.62 | 26.41 | 26.45 |
| 34.13 | 78.63 | 13.57 | 14.85 | 14.52 | 11.91 | 14.97 | 15.45 | 10.04 | 16.22 | 14.39 | 13.42 | 15.06 | 44.61 | 26.5 | 35.68 | 17.74 | 28.51 |
| 34.13 | 78.88 | 13.09 | 14.34 | 13.38 | 11.69 | 14.02 | 14.69 | 9.68 | 15.76 | 13.76 | 13.07 | 16.11 | 33.95 | 19.87 | 26.24 | 16.62 | 23.91 |
| 34.13 | 79.13 | 13.18 | 14.73 | 12.76 | 11.82 | 14.27 | 14.88 | 9.77 | 16.58 | 13.95 | 13.94 | 17.51 | 26.98 | 18.77 | 18.96 | 18.5 | 20.41 |
| 34.13 | 79.38 | 13.5 | 16.48 | 12.24 | 12.25 | 15.17 | 16.12 | 10.45 | 19.11 | 14.99 | 15.9 | 19.72 | 23.5 | 20.13 | 17.53 | 21.32 | 17.74 |
| 33.88 | 73.63 | 13.9 | 12.8 | 13.83 | 12.06 | 12.64 | 17.64 | 12.26 | 15.31 | 15.27 | 14.59 | 11.39 | 14.27 | 13.08 | 14.87 | 10.74 | 11.68 |
| 33.88 | 73.88 | 14.84 | 12.32 | 13.95 | 11.87 | 12.12 | 16.03 | 11.81 | 14.18 | 14.34 | 14.21 | 11.02 | 14.04 | 13 | 13.32 | 10.51 | 11.84 |
| 33.88 | 74.13 | 14.88 | 12.08 | 14.11 | 11.04 | 11.55 | 13.98 | 11.5 | 13.15 | 13.36 | 13.34 | 10.94 | 13.75 | 13.05 | 12.51 | 10.44 | 12 |
| 33.88 | 74.38 | 15.41 | 11.39 | 15.48 | 10.14 | 11.45 | 12.4 | 11.26 | 12.21 | 12.38 | 13.4 | 11.53 | 14.46 | 13.84 | 12.56 | 10.48 | 12.83 |
| 33.88 | 74.63 | 17.51 | 10.58 | 22.29 | 10.34 | 13.62 | 12.6 | 11.74 | 12.95 | 11.72 | 15.02 | 13.5 | 18.82 | 17.76 | 13.72 | 11.77 | 15.68 |
| 33.88 | 74.88 | 17.17 | 10.87 | 24.67 | 10.61 | 13.74 | 13.51 | 11.48 | 14.08 | 11.48 | 15.49 | 14.54 | 22.03 | 20.22 | 15.19 | 12.81 | 17.91 |
| 33.88 | 75.13 | 15.9 | 11.13 | 20.88 | 10.58 | 12.61 | 13.04 | 10.98 | 13.43 | 11.14 | 14.83 | 14.15 | 21.56 | 21.21 | 15.02 | 12.79 | 19.01 |
| 33.88 | 75.38 | 14.48 | 10.58 | 16.31 | 10.23 | 12.13 | 11.35 | 10.87 | 12.46 | 10.69 | 13.63 | 13.15 | 19.77 | 19.34 | 13.15 | 11.78 | 17.54 |
| 33.88 | 75.63 | 14.97 | 10.57 | 16.3 | 10.56 | 12.93 | 11.03 | 11.4 | 13.05 | 10.97 | 13.79 | 13.18 | 19.26 | 19.38 | 12.27 | 11.9 | 17.67 |
| 33.88 | 75.88 | 17.49 | 11.25 | 19.81 | 11.59 | 14.78 | 11.77 | 12.49 | 15.36 | 11.75 | 15.63 | 14.29 | 25.92 | 23.64 | 14.8 | 13.58 | 20.21 |
| 33.88 | 76.13 | 19.93 | 11.93 | 24.28 | 13.05 | 17.32 | 12.87 | 13.85 | 18.17 | 12.53 | 17.67 | 15.67 | 32.46 | 29.47 | 17.71 | 16.09 | 23.87 |
| 33.88 | 76.38 | 21.51 | 12.38 | 29.73 | 14.08 | 21 | 14.31 | 14.75 | 21.18 | 13.33 | 19.46 | 16.74 | 37.79 | 31.69 | 20.54 | 18.39 | 25.91 |
| 33.88 | 76.63 | 25.7 | 13.49 | 41.72 | 16.43 | 25.4 | 18.42 | 16.51 | 30.42 | 15.52 | 23.31 | 17.68 | 46.8 | 34.13 | 23.16 | 22.9 | 28.35 |
| 33.88 | 76.88 | 35.75 | 14 | 54.61 | 19.23 | 27.78 | 21.3 | 20.84 | 43.25 | 16.62 | 26.7 | 18.29 | 78.14 | 39 | 30.84 | 27.96 | 29.89 |
| 33.88 | 77.13 | 37.25 | 14.06 | 47.62 | 19.8 | 28.83 | 21.71 | 21.8 | 47.78 | 16.69 | 27.13 | 18.13 | 70.65 | 44.11 | 47.06 | 28.97 | 29.51 |
| 33.88 | 77.38 | 34.12 | 14.48 | 40.9 | 18.65 | 27.9 | 20.83 | 20.3 | 45.44 | 16.33 | 26.67 | 16.76 | 56.94 | 50.84 | 53.6 | 28.92 | 29.23 |
| 33.88 | 77.63 | 28.72 | 15.25 | 36.59 | 15.79 | 25.61 | 19.51 | 17.1 | 40.61 | 15.94 | 25.4 | 15.39 | 53.33 | 57.58 | 54.75 | 29.37 | 28.69 |
| 33.88 | 77.88 | 21.89 | 15.47 | 31.18 | 12.95 | 22.56 | 17.73 | 13.55 | 27.65 | 15.79 | 21.48 | 14.18 | 52.28 | 57.92 | 51.55 | 29.99 | 26.67 |
| 33.88 | 78.13 | 16.29 | 14.73 | 24.03 | 11.89 | 19.28 | 16 | 11.88 | 19.69 | 14.65 | 17.38 | 13.67 | 51.59 | 47.1 | 48.16 | 29.94 | 26.25 |
| 33.88 | 78.38 | 14.07 | 13.95 | 16.19 | 11.93 | 16.23 | 15.3 | 10.69 | 16.02 | 14.28 | 14.8 | 13.9 | 51.19 | 36.56 | 43.87 | 26.16 | 27.1 |
| 33.88 | 78.63 | 13.6 | 14.06 | 13.83 | 11.7 | 14.86 | 15.41 | 10.18 | 15.76 | 14.3 | 13.64 | 14.75 | 46.6 | 26.38 | 36.06 | 18.47 | 27.74 |
| 33.88 | 78.88 | 13.41 | 14.66 | 13.31 | 11.83 | 14.45 | 15.76 | 9.91 | 16.68 | 14.51 | 13.39 | 16.18 | 35.12 | 20.48 | 27.41 | 16.78 | 23.34 |
| 33.63 | 73.63 | 14.52 | 14.85 | 14.95 | 12.82 | 13.31 | 18.89 | 13.39 | 17.36 | 16.72 | 15.45 | 12.08 | 15.68 | 14.67 | 16.68 | 11.64 | 11.94 |
| 33.63 | 73.88 | 15.17 | 14.6 | 15.07 | 12.62 | 13.22 | 18 | 13.32 | 16.47 | 16.28 | 14.69 | 11.76 | 15.67 | 14.72 | 16.38 | 11.75 | 12.39 |
| 33.63 | 74.13 | 15.02 | 14.53 | 14.76 | 12.27 | 13.1 | 16.31 | 13.33 | 15.52 | 15.81 | 13.87 | 11.68 | 16.25 | 14.68 | 16.16 | 11.88 | 13.35 |
| 33.63 | 74.38 | 14.79 | 14.08 | 14.73 | 11.81 | 12.68 | 14.61 | 12.95 | 14.27 | 15.09 | 13.44 | 11.77 | 17.45 | 14.65 | 16.28 | 11.71 | 14.67 |
| 33.63 | 74.63 | 14.88 | 12.89 | 15.23 | 10.92 | 11.7 | 13.03 | 11.8 | 12.26 | 13.6 | 13.1 | 12.08 | 19.06 | 14.97 | 15.9 | 11.52 | 16.44 |
| 33.63 | 74.88 | 15.01 | 11.43 | 16.14 | 10.03 | 10.99 | 11.88 | 10.75 | 10.91 | 11.97 | 13.16 | 12.7 | 19.99 | 16.34 | 14.71 | 11.73 | 17.8 |
| 33.63 | 75.13 | 15.28 | 10.56 | 17.08 | 9.8 | 11.61 | 11.02 | 10.65 | 11.37 | 10.9 | 13.63 | 13.37 | 21.25 | 18.88 | 12.99 | 12.17 | 18.2 |
| 33.63 | 75.38 | 15.77 | 10.81 | 17.55 | 10.22 | 12.69 | 10.68 | 11.09 | 12.45 | 10.81 | 14.06 | 13.61 | 22.82 | 20.4 | 12.76 | 12.55 | 18.34 |
| 33.63 | 75.63 | 16.81 | 11.39 | 18.48 | 10.48 | 13.23 | 10.96 | 11.48 | 13.41 | 11.24 | 14.84 | 13.92 | 23.1 | 21.15 | 13.52 | 12.9 | 19.4 |
| 33.63 | 75.88 | 18.44 | 11.95 | 19.56 | 10.9 | 14.01 | 11.36 | 12.16 | 14.36 | 11.95 | 15.71 | 14.46 | 25.13 | 22.81 | 14.16 | 13.68 | 21.46 |
| 33.63 | 76.13 | 19.2 | 12.14 | 20.11 | 11.24 | 14.68 | 11.55 | 12.56 | 15 | 12.21 | 16.08 | 14.73 | 27.08 | 25.15 | 15.06 | 15.06 | 23.23 |
| 33.63 | 76.38 | 19.59 | 12.16 | 20.58 | 11.56 | 15.42 | 11.75 | 12.84 | 15.71 | 12.38 | 16.48 | 14.93 | 29.07 | 26.77 | 17.41 | 16.98 | 24.36 |
| 33.63 | 76.63 | 21.81 | 12.77 | 24.22 | 12.58 | 18.45 | 12.95 | 13.32 | 19.88 | 13.26 | 18.58 | 15.97 | 32.53 | 31.26 | 23.24 | 22.13 | 26.49 |
| 33.63 | 76.88 | 27.41 | 14.21 | 36.78 | 15.27 | 25.37 | 18.04 | 15.68 | 33.42 | 16 | 24.38 | 17.43 | 51.98 | 38 | 39.2 | 25.78 | 29.77 |
| 33.63 | 77.13 | 32.24 | 14.19 | 46.14 | 17.55 | 26.45 | 19.96 | 18.42 | 40.42 | 16.44 | 26.71 | 17.2 | 67.73 | 46.62 | 58.3 | 28.01 | 30.01 |

| Lattitude | Longitude | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Table date from the year 2005 to 2020 Continued* | | | | | | | | | | | | | | | | | |
| 33.63 | 77.38 | 29.09 | 13.76 | 41.3 | 15.68 | 25.11 | 19.01 | 16.74 | 37.79 | 15.96 | 25.8 | 15.95 | 63.49 | 52.77 | 60 | 28.51 | 30.05 |
| 33.63 | 77.63 | 23.07 | 13.84 | 35.07 | 13.03 | 22.15 | 17.3 | 13.96 | 29.85 | 15.05 | 21.94 | 14.5 | 56.03 | 55.82 | 56.58 | 29.34 | 29.91 |
| 33.63 | 77.88 | 16.74 | 13.06 | 23.63 | 11.66 | 18.71 | 14.83 | 12.07 | 18.52 | 13.39 | 17.62 | 13.35 | 53.08 | 57.67 | 53.31 | 29.85 | 28.4 |
| 33.63 | 78.13 | 13.95 | 12.62 | 15.9 | 11.22 | 15.32 | 13.76 | 10.63 | 14.56 | 12.92 | 14.86 | 13.01 | 51.23 | 50.71 | 50.11 | 29.66 | 27.71 |
| 33.63 | 78.38 | 13.19 | 12.7 | 14.04 | 10.93 | 14.37 | 13.65 | 10.2 | 14.08 | 12.94 | 13.55 | 13.45 | 50.98 | 35.92 | 44.07 | 27.17 | 27.93 |
| 33.63 | 78.63 | 13.28 | 13.47 | 13.57 | 11.31 | 14.3 | 14.7 | 10.03 | 15.11 | 13.75 | 13.27 | 14.62 | 47.38 | 26.37 | 36.5 | 20.56 | 27.51 |
| 33.63 | 78.88 | 13.74 | 15.51 | 13.3 | 12.37 | 15.17 | 17.51 | 10.21 | 18.24 | 15.49 | 14.35 | 17.35 | 34.94 | 21.87 | 28.63 | 17.5 | 25.02 |
| 33.38 | 73.63 | 16.36 | 17.94 | 16.17 | 13.96 | 13.94 | 20 | 15.26 | 20.13 | 18.21 | 16.47 | 12.46 | 17.53 | 16.65 | 18.68 | 13.02 | 13.12 |
| 33.38 | 73.88 | 16.83 | 17.04 | 16.65 | 13.51 | 14.16 | 19.1 | 15.04 | 18.86 | 17.92 | 15.77 | 12.1 | 17.46 | 16.34 | 18.37 | 12.85 | 14.08 |
| 33.38 | 74.13 | 16.44 | 16.49 | 15.95 | 13.26 | 14.52 | 18 | 15.06 | 17.62 | 17.94 | 15.19 | 12.15 | 18.57 | 16.2 | 18.46 | 12.88 | 15.39 |
| 33.38 | 74.38 | 16.07 | 16.21 | 15.54 | 13.73 | 15.15 | 17.3 | 15.36 | 16.81 | 18.04 | 14.96 | 12.49 | 20.71 | 16.25 | 19.1 | 13.21 | 17.04 |
| 33.38 | 74.63 | 16.17 | 15.76 | 15.73 | 14.33 | 15.4 | 16.71 | 15.32 | 16.05 | 17.7 | 14.64 | 12.83 | 22.69 | 16.32 | 19.04 | 13.55 | 18.55 |
| 33.38 | 74.88 | 14.76 | 13.56 | 14.67 | 12.7 | 13.2 | 14.22 | 13.18 | 13.35 | 15.35 | 13.43 | 12.32 | 21 | 15.39 | 15.96 | 12.43 | 17.84 |
| 33.38 | 75.13 | 13.82 | 10.81 | 13.84 | 10.2 | 11.15 | 11.07 | 10.74 | 10.95 | 12.11 | 12.72 | 12.25 | 16.79 | 15.51 | 11.27 | 11.24 | 15.93 |
| 33.38 | 75.38 | 15.45 | 10.53 | 15.66 | 10.08 | 12.29 | 10.54 | 10.96 | 11.82 | 11.5 | 13.78 | 13.34 | 17.97 | 17.91 | 11.24 | 11.81 | 17.17 |
| 33.38 | 75.63 | 17.73 | 11.15 | 18.29 | 10.37 | 13.54 | 11.14 | 11.61 | 13.03 | 12.15 | 15.29 | 14.44 | 20.96 | 20.92 | 13.02 | 12.91 | 19.99 |
| 33.38 | 75.88 | 19.03 | 11.66 | 19.04 | 10.72 | 14.48 | 11.37 | 12.05 | 13.89 | 12.5 | 15.92 | 14.73 | 22.31 | 24.21 | 14.82 | 14.57 | 22.42 |
| 33.38 | 76.13 | 18.69 | 11.82 | 18.37 | 10.89 | 14.47 | 11.25 | 12 | 13.89 | 12.41 | 15.52 | 14.26 | 21.98 | 24.85 | 16.13 | 15.93 | 22.88 |
| 33.38 | 76.38 | 18.41 | 11.88 | 18.23 | 10.88 | 14.46 | 11.21 | 11.99 | 13.99 | 12.31 | 15.45 | 14.04 | 22.44 | 24.94 | 17.78 | 18.2 | 22.3 |
| 33.38 | 76.63 | 18.65 | 11.68 | 19.61 | 10.6 | 14.65 | 11.46 | 11.98 | 14.84 | 12.06 | 16.45 | 14.32 | 27.55 | 24.06 | 22.67 | 18.79 | 22.22 |
| 33.38 | 76.88 | 18.53 | 11.86 | 23.79 | 11.09 | 15.34 | 12.62 | 12.51 | 17.6 | 12.13 | 18.64 | 15.09 | 34.89 | 25.78 | 33.61 | 19.9 | 22.66 |
| 33.38 | 77.13 | 19.06 | 12.48 | 27.23 | 11.19 | 16.15 | 13.39 | 12.82 | 19.53 | 12.21 | 19.53 | 14.99 | 42.41 | 28.59 | 43.08 | 21.88 | 22.87 |
| 33.38 | 77.38 | 17.15 | 11.39 | 22.45 | 10.52 | 14.17 | 12.18 | 11.82 | 16.48 | 11.34 | 17.05 | 13.48 | 45.48 | 29.26 | 45.79 | 22.51 | 22.36 |
| 33.38 | 77.63 | 13.72 | 10.18 | 14.93 | 9.83 | 12.72 | 10.97 | 10.95 | 12.78 | 10.49 | 13.85 | 11.83 | 52.73 | 32.03 | 48.18 | 24.39 | 22.84 |
| 33.38 | 77.88 | 12.39 | 10.27 | 12.81 | 9.86 | 12.51 | 10.79 | 10.46 | 11.91 | 10.35 | 12.55 | 11.26 | 56.09 | 40.57 | 50.57 | 27.89 | 24.82 |
| 33.38 | 78.13 | 12.36 | 10.93 | 12.59 | 9.97 | 13.21 | 11.58 | 10.07 | 12.48 | 11.02 | 12.48 | 11.99 | 51.9 | 44.57 | 49.39 | 29.53 | 27.6 |
| 33.38 | 78.38 | 12.36 | 11.55 | 12.36 | 10.09 | 13.32 | 12.54 | 9.84 | 13.31 | 11.69 | 12.36 | 13.01 | 51.22 | 33.75 | 43.73 | 27.46 | 27.39 |
| 33.38 | 78.63 | 12.77 | 13.13 | 12.17 | 10.68 | 13.57 | 14.87 | 9.89 | 15.82 | 13.3 | 13.1 | 15.5 | 46.81 | 26.43 | 37.07 | 21.62 | 26.75 |
| 33.38 | 78.88 | 15.42 | 18.48 | 12.4 | 13.41 | 16.83 | 22.16 | 12.02 | 25.78 | 17.75 | 18.37 | 22.07 | 34.15 | 24.74 | 30.92 | 18.77 | 25.58 |
| 33.13 | 73.88 | 17.48 | 20.99 | 16.77 | 14.59 | 16.27 | 19.96 | 17.4 | 22.1 | 19.67 | 16.64 | 12.26 | 18.72 | 18.22 | 20.62 | 14.63 | 17.24 |
| 33.13 | 74.13 | 17.25 | 18.87 | 16.57 | 14.7 | 16.83 | 20.49 | 17.51 | 20.34 | 20.9 | 17.39 | 12.61 | 20.18 | 17.67 | 20.49 | 14.19 | 18.35 |
| 33.13 | 74.38 | 17.21 | 17.78 | 16.43 | 15.84 | 17.96 | 21.2 | 18.15 | 19.35 | 21.75 | 17.77 | 13.24 | 23.27 | 17.5 | 21.36 | 14.39 | 18.92 |
| 33.13 | 74.63 | 17.49 | 17.56 | 17.05 | 17.37 | 19.08 | 21.54 | 18.87 | 19.27 | 21.99 | 17.7 | 13.92 | 25.8 | 17.6 | 21.93 | 15.12 | 19.31 |
| 33.13 | 74.88 | 16.13 | 15.72 | 16.22 | 16.38 | 17.06 | 19.38 | 17.07 | 16.95 | 20.14 | 16.53 | 13.47 | 24.4 | 16.36 | 19.6 | 14.13 | 18.05 |
| 33.13 | 75.13 | 14.11 | 12.43 | 14.05 | 12.97 | 13.19 | 14.97 | 13.17 | 12.99 | 16.27 | 14.47 | 12.54 | 19.35 | 14.57 | 14.52 | 11.97 | 15.62 |
| 33.13 | 75.38 | 14.98 | 11.17 | 14.07 | 11.41 | 12.36 | 12.77 | 11.57 | 11.8 | 14.4 | 14.16 | 12.97 | 17.42 | 15.28 | 11.94 | 11.55 | 15.7 |
| 33.13 | 75.63 | 16.99 | 10.96 | 15.36 | 10.94 | 13.26 | 11.9 | 11.27 | 12.14 | 13.97 | 14.95 | 13.66 | 17.1 | 18.99 | 11.53 | 12.84 | 18.39 |
| 33.13 | 75.88 | 17.66 | 11.03 | 16.62 | 10.92 | 14.74 | 11.37 | 11.4 | 13.1 | 13.5 | 15.41 | 14.01 | 16.96 | 23.8 | 13.17 | 15.89 | 20.43 |
| 33.13 | 76.13 | 16.87 | 11.16 | 15.68 | 10.76 | 13.54 | 11.3 | 11.26 | 12.44 | 13.2 | 14.69 | 13.26 | 18.48 | 24.31 | 15.06 | 18.13 | 19.49 |
| 33.13 | 76.38 | 15.85 | 11.1 | 15.5 | 10.35 | 12.72 | 11.15 | 11.02 | 12.11 | 12.7 | 14.57 | 12.93 | 19.84 | 22.94 | 18.4 | 18.14 | 18.76 |
| 33.13 | 76.63 | 15.91 | 10.6 | 17 | 9.62 | 13.33 | 11.02 | 10.89 | 13.26 | 11.8 | 16 | 13.58 | 24 | 21.14 | 24.85 | 16.71 | 19.99 |
| 33.13 | 76.88 | 15.78 | 10.41 | 19.18 | 9.51 | 13.78 | 11.34 | 11.35 | 14.76 | 11.37 | 17.5 | 14.21 | 28.15 | 20.47 | 28.73 | 16.25 | 20.32 |
| 33.13 | 77.13 | 15.4 | 10.42 | 18.16 | 9.44 | 13.19 | 11.05 | 11.08 | 13.97 | 10.98 | 15.93 | 13.29 | 27.66 | 20.23 | 27.91 | 16.68 | 19.22 |
| 33.13 | 77.38 | 13.02 | 9.9 | 13.97 | 9.45 | 11.6 | 10.37 | 10.61 | 11.56 | 10.29 | 12.78 | 11.64 | 26.08 | 20.29 | 26.86 | 17.35 | 18.34 |
| 33.13 | 77.63 | 11.14 | 9.83 | 11.32 | 9.84 | 10.88 | 10.1 | 10.37 | 10.6 | 10 | 11.08 | 10.55 | 27.34 | 20.69 | 27.07 | 18.65 | 18.02 |
| 33.13 | 77.88 | 10.82 | 10.01 | 10.87 | 9.92 | 10.91 | 10.13 | 10.19 | 10.49 | 9.89 | 10.86 | 10.38 | 32.75 | 20.9 | 29.39 | 20.17 | 18.1 |
| 33.13 | 78.13 | 10.75 | 10.16 | 10.75 | 9.87 | 11.04 | 10.26 | 10.06 | 10.57 | 9.9 | 11.01 | 10.52 | 36.1 | 19.67 | 28.06 | 19.65 | 17.78 |
| 33.13 | 78.38 | 10.69 | 10.25 | 10.72 | 9.88 | 11.08 | 10.38 | 10.03 | 10.64 | 9.95 | 11.17 | 10.65 | 25.71 | 16.17 | 20.13 | 17.42 | 15.76 |
| 33.13 | 78.63 | 10.74 | 10.51 | 10.73 | 9.7 | 11.43 | 11.18 | 9.88 | 11.34 | 10.2 | 11.71 | 11.74 | 24.53 | 16.03 | 21.28 | 15.68 | 17.09 |
| 33.13 | 78.88 | 15.81 | 19.27 | 12.16 | 13.29 | 15.97 | 23 | 14 | 29.52 | 17.69 | 21.32 | 24.51 | 34.04 | 24.52 | 30.89 | 19.02 | 23.13 |
| 33.13 | 79.13 | 19.12 | 24.93 | 13.61 | 16.5 | 20.65 | 29.54 | 17.87 | 41.82 | 21.45 | 30.54 | 29.57 | 35.39 | 26.68 | 28.41 | 25.3 | 20.66 |
| 33.13 | 79.38 | 19.16 | 27.26 | 14.42 | 18.32 | 19.87 | 33.87 | 19.82 | 43.83 | 22.91 | 33.75 | 30.81 | 38.62 | 28.7 | 28.69 | 30.88 | 18.86 |
| 32.88 | 74.38 | 17.8 | 18.76 | 17.41 | 18.9 | 21.37 | 25.85 | 21.02 | 20.94 | 25.56 | 21.34 | 14.38 | 25.1 | 18.65 | 23.02 | 15.35 | 20.35 |
| 32.88 | 74.63 | 17.99 | 18.68 | 17.82 | 20.31 | 22.27 | 26.08 | 21.5 | 20.78 | 25.54 | 21.33 | 14.71 | 27.79 | 18.06 | 24.24 | 16.01 | 17.82 |
| 32.88 | 74.88 | 16.78 | 17.26 | 17.07 | 19.24 | 20.08 | 23.76 | 19.85 | 18.8 | 23.6 | 19.76 | 14.31 | 27.05 | 16.83 | 22.63 | 15.48 | 15.95 |
| 32.88 | 75.13 | 14.88 | 14.95 | 15.24 | 16.76 | 16.67 | 19.89 | 16.76 | 15.76 | 20.32 | 17.05 | 13.53 | 23.25 | 15.34 | 19.07 | 13.87 | 15.11 |
| 32.88 | 75.38 | 13.75 | 13.38 | 13.84 | 14.81 | 14.46 | 17.18 | 14.59 | 13.71 | 18.17 | 15.47 | 12.85 | 20.53 | 14.5 | 16.12 | 12.47 | 14.8 |
| 32.88 | 75.63 | 13.6 | 12.09 | 12.63 | 12.76 | 12.66 | 14.53 | 12.47 | 12.04 | 16.58 | 14.97 | 12.24 | 18.06 | 15.64 | 12.94 | 11.95 | 15.63 |
| 32.88 | 75.88 | 13.84 | 11.82 | 12.45 | 12.04 | 12.36 | 13.22 | 11.76 | 11.71 | 15.79 | 14.91 | 12.18 | 17.1 | 19.77 | 13.08 | 15.11 | 16.08 |
| 32.88 | 76.13 | 13.19 | 13.17 | 12.94 | 13.52 | 12.9 | 14.63 | 13.42 | 12.47 | 16.51 | 14.63 | 12.05 | 20.42 | 18.24 | 15.2 | 13.56 | 16.72 |
| 32.88 | 76.38 | 13.1 | 13.66 | 13.24 | 13.81 | 12.95 | 14.75 | 13.89 | 12.78 | 16.4 | 14.7 | 12.09 | 21.62 | 16.71 | 17.5 | 12.28 | 17.45 |

| Lattitude | Longitude | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Table date from the year 2005 to 2020 Continued* | | | | | | | | | | | | | | | | | |
| 32.88 | 76.63 | 12.09 | 11.71 | 12.42 | 11.23 | 10.81 | 11.91 | 11.41 | 11.07 | 14.16 | 15.21 | 11.8 | 19.68 | 18.13 | 23.03 | 14.96 | 17.03 |
| 32.88 | 76.88 | 14.14 | 10.94 | 16.45 | 9.93 | 14.47 | 10.58 | 10.74 | 14.02 | 12.84 | 18.4 | 13.52 | 25.45 | 19.2 | 26.76 | 16.08 | 19.26 |
| 32.88 | 77.13 | 13.6 | 10.64 | 15.71 | 10.1 | 14.23 | 10.32 | 10.61 | 13.82 | 12.12 | 16.86 | 12.66 | 24.64 | 19.33 | 24.38 | 16.72 | 18.46 |
| 32.88 | 77.38 | 11.39 | 9.84 | 11.64 | 9.63 | 11.31 | 10.01 | 10.1 | 10.92 | 10.41 | 11.8 | 10.85 | 21.89 | 19.08 | 20.76 | 17.09 | 16.85 |
| 32.88 | 77.63 | 10.45 | 10.07 | 10.52 | 9.8 | 10.42 | 10.12 | 9.98 | 10.31 | 9.89 | 10.53 | 10.37 | 21 | 16.71 | 18.21 | 16.24 | 15.84 |
| 32.88 | 77.88 | 10.46 | 10.25 | 10.55 | 9.85 | 10.49 | 10.23 | 9.94 | 10.38 | 9.91 | 10.68 | 10.47 | 20.95 | 15.56 | 16.67 | 15.96 | 15.06 |
| 32.88 | 78.13 | 10.6 | 10.39 | 10.67 | 9.92 | 10.76 | 10.3 | 9.97 | 10.48 | 9.99 | 10.99 | 10.55 | 20.18 | 14.67 | 15.15 | 15.88 | 14.17 |
| 32.88 | 78.38 | 10.71 | 10.46 | 10.76 | 9.99 | 10.97 | 10.32 | 10.04 | 10.55 | 10.07 | 11.2 | 10.61 | 16.56 | 13.16 | 12.91 | 14.31 | 13.27 |
| 32.88 | 78.63 | 10.73 | 10.39 | 10.8 | 9.76 | 11.23 | 10.59 | 9.83 | 10.8 | 9.96 | 11.48 | 10.95 | 16.41 | 13.17 | 13.93 | 13.75 | 13.91 |
| 32.88 | 78.88 | 14.16 | 14.72 | 12.35 | 11.78 | 13.54 | 18.09 | 11.85 | 21.38 | 14.14 | 15.15 | 19.47 | 32.53 | 22 | 29.72 | 16.68 | 20.59 |
| 32.88 | 79.13 | 17.76 | 20.13 | 13.65 | 14.42 | 17.04 | 23.88 | 15.11 | 33.22 | 18.33 | 21.12 | 25.79 | 34.44 | 23.94 | 27.87 | 21.79 | 19.46 |
| 32.88 | 79.38 | 17.77 | 22.96 | 13.42 | 15.65 | 18.86 | 26.86 | 16.52 | 36.99 | 20.01 | 26.46 | 28.26 | 37.32 | 25.75 | 27.53 | 26.99 | 17.76 |
| 32.63 | 74.88 | 16.75 | 18.71 | 16.76 | 20.36 | 21.11 | 25.44 | 20.81 | 18.83 | 24.96 | 22.16 | 14.58 | 27.63 | 16.86 | 24.61 | 15.99 | 14.5 |
| 32.63 | 75.13 | 15.83 | 17.34 | 15.99 | 18.99 | 18.85 | 22.55 | 19.29 | 17.36 | 22.67 | 19.32 | 14.16 | 25.01 | 16.09 | 21.8 | 15.36 | 14.61 |
| 32.63 | 75.38 | 15.2 | 16.62 | 15.26 | 18.15 | 17.62 | 20.96 | 18.29 | 16.36 | 21.45 | 17.94 | 13.85 | 23.75 | 15.75 | 20.08 | 14.44 | 15.32 |
| 32.63 | 75.63 | 14.24 | 15.92 | 14.12 | 17.14 | 16.15 | 19.46 | 17.12 | 15.07 | 20.53 | 17.16 | 13.17 | 23.59 | 15.81 | 18.39 | 13.17 | 16.65 |
| 32.63 | 75.88 | 14.08 | 15.92 | 13.74 | 16.72 | 15.53 | 18.36 | 16.6 | 14.64 | 19.47 | 16.34 | 13.05 | 23.52 | 16 | 17.77 | 12.88 | 17.23 |
| 32.63 | 76.13 | 15.84 | 17.53 | 15.48 | 18.31 | 17.4 | 19.67 | 18.48 | 16.61 | 20.17 | 16.84 | 14.38 | 25.28 | 17.23 | 19.55 | 13.67 | 19.8 |
| 32.63 | 76.38 | 16.76 | 18.37 | 16.5 | 19.22 | 18.3 | 20.23 | 19.53 | 17.67 | 20.67 | 17.37 | 15.22 | 25.18 | 17.9 | 20.91 | 14.7 | 21.3 |
| 32.63 | 76.63 | 12.87 | 15.19 | 12.79 | 15.94 | 13.68 | 15.76 | 15.63 | 13.4 | 17.65 | 15.23 | 12.34 | 21.21 | 14.1 | 18.75 | 11.22 | 18.45 |
| 32.63 | 76.88 | 12.05 | 12.01 | 13.23 | 12.24 | 12.97 | 10.31 | 10.95 | 12.28 | 14.45 | 17.32 | 11.78 | 19.44 | 18.44 | 21.98 | 15.62 | 16.94 |
| 32.63 | 77.13 | 12.87 | 11.82 | 14.03 | 11.91 | 15.13 | 10.38 | 10.47 | 13.35 | 13.63 | 16.82 | 12.64 | 22 | 19.2 | 20.76 | 17.05 | 16.8 |
| 32.63 | 77.38 | 11.39 | 10.64 | 11.34 | 10.33 | 12.91 | 10.67 | 9.9 | 11.13 | 11.12 | 12.32 | 11.31 | 20.07 | 16.28 | 17.44 | 15.99 | 15.44 |
| 32.63 | 77.63 | 10.86 | 10.61 | 11.23 | 9.8 | 10.79 | 10.87 | 9.83 | 10.9 | 10.17 | 11.15 | 11.1 | 19.13 | 14.28 | 15.33 | 15.1 | 14.79 |
| 32.63 | 77.88 | 10.79 | 10.57 | 11.17 | 9.84 | 10.56 | 10.8 | 9.89 | 10.83 | 10.16 | 11.07 | 11.05 | 18.44 | 13.46 | 14.23 | 14.56 | 14.3 |
| 32.63 | 78.13 | 10.78 | 10.56 | 11.07 | 9.8 | 10.78 | 10.65 | 9.82 | 10.74 | 10.09 | 11.24 | 10.95 | 18.34 | 13.36 | 13.69 | 14.7 | 13.81 |
| 32.63 | 78.38 | 10.85 | 10.61 | 10.9 | 9.76 | 11.57 | 10.36 | 9.68 | 10.66 | 9.92 | 11.69 | 10.73 | 17.46 | 13.62 | 13.07 | 14.5 | 13.69 |
| 32.63 | 78.63 | 11.2 | 10.81 | 10.91 | 9.97 | 12.76 | 10.3 | 9.68 | 10.97 | 9.79 | 12.54 | 10.62 | 15.98 | 13.61 | 13.06 | 13.48 | 15.2 |
| 32.63 | 78.88 | 11.96 | 11.25 | 11.1 | 10.46 | 13.09 | 11.92 | 9.78 | 13 | 10.23 | 13.44 | 12.22 | 16.5 | 15.23 | 16.75 | 12.69 | 18.47 |
| 32.63 | 79.13 | 17.31 | 16.06 | 13.92 | 13.38 | 14.8 | 20.48 | 13.38 | 27.75 | 15.82 | 15.7 | 22.09 | 28.4 | 20.86 | 26.61 | 18.1 | 19.44 |
| 32.63 | 79.38 | 18.56 | 19.22 | 14.33 | 14.54 | 16.86 | 23.39 | 15.09 | 33.47 | 18.04 | 19.5 | 25.59 | 33.07 | 23.07 | 25.51 | 23.49 | 17.49 |
| 32.38 | 75.38 | 16.74 | 19.54 | 16.28 | 21.04 | 20.16 | 24.01 | 21.55 | 18.43 | 24.44 | 20.15 | 14.81 | 27.26 | 17.34 | 23.82 | 16.11 | 17.01 |
| 32.38 | 75.88 | 16.98 | 19.23 | 16.36 | 20.34 | 19.18 | 21.85 | 20.75 | 18.15 | 22.31 | 18.21 | 15.31 | 27.69 | 19.67 | 22.45 | 14.81 | 20.53 |
| 32.38 | 76.13 | 18.35 | 19.96 | 17.81 | 21 | 20.23 | 22.18 | 21.54 | 19.46 | 22.32 | 18.49 | 16.75 | 27.29 | 21.64 | 22.57 | 16.49 | 22.56 |
| 32.38 | 76.38 | 19.29 | 20.64 | 18.84 | 21.54 | 20.95 | 22.56 | 22.17 | 20.38 | 22.62 | 19.02 | 17.82 | 26.9 | 22.08 | 23.06 | 17.82 | 23.16 |
| 32.38 | 76.63 | 16.76 | 18.66 | 16.33 | 19.44 | 18.09 | 19.88 | 19.8 | 17.72 | 20.62 | 16.88 | 15.76 | 24.02 | 17.8 | 21.01 | 15.45 | 21.4 |
| 32.38 | 76.88 | 11.1 | 13.31 | 11.28 | 14.15 | 11.36 | 12.88 | 13.16 | 11.4 | 15.38 | 12.94 | 11.18 | 17.98 | 12.44 | 16.33 | 11.47 | 16.66 |
| 32.38 | 77.13 | 11.4 | 11.33 | 11.96 | 11.85 | 13.16 | 11.29 | 10.45 | 11.12 | 12.53 | 13.65 | 11.77 | 18.57 | 13.53 | 15.25 | 13.69 | 15.1 |
| 32.38 | 77.38 | 12.13 | 11.67 | 13 | 11.24 | 12.92 | 12.86 | 10.54 | 12.01 | 11.53 | 12.44 | 12.57 | 17.93 | 12.66 | 14.68 | 13.12 | 14.69 |
| 32.38 | 77.63 | 12.08 | 11.52 | 13.32 | 10.59 | 11.57 | 12.75 | 10.37 | 12.35 | 10.91 | 12.17 | 12.55 | 16.7 | 12.25 | 13.63 | 13.07 | 13.91 |
| 32.38 | 77.88 | 11.57 | 10.97 | 12.63 | 10.25 | 10.6 | 12.22 | 10.26 | 11.96 | 10.67 | 11.53 | 11.97 | 16.21 | 11.95 | 13.32 | 12.97 | 13.44 |
| 32.38 | 78.13 | 11.19 | 10.67 | 12.06 | 9.94 | 10.65 | 11.85 | 9.96 | 11.66 | 10.31 | 11.38 | 11.53 | 16.95 | 12.3 | 13.65 | 13.25 | 13.63 |
| 32.38 | 78.38 | 11.13 | 10.96 | 11.21 | 9.76 | 12.67 | 11.19 | 9.5 | 11.26 | 9.8 | 12.36 | 11.14 | 18.98 | 14.19 | 14 | 13.68 | 14.88 |
| 32.13 | 75.88 | 18.15 | 20.6 | 17.38 | 22.03 | 20.69 | 23.3 | 22.72 | 19.78 | 23.95 | 19.12 | 16.46 | 26.86 | 23.08 | 25.06 | 16.61 | 22.68 |
| 32.13 | 76.13 | 19.68 | 21.29 | 19.1 | 22.28 | 21.74 | 23.62 | 23.24 | 21.16 | 23.88 | 19.49 | 18.09 | 27.07 | 24.11 | 24.82 | 18.69 | 23.94 |
| 32.13 | 76.38 | 19.82 | 21.25 | 19.44 | 21.65 | 21.36 | 23 | 22.71 | 21.14 | 23.25 | 19.18 | 18.5 | 26.51 | 23.02 | 23.93 | 18.97 | 23.63 |
| 32.13 | 76.63 | 18.65 | 20.2 | 18.51 | 20.01 | 19.64 | 21.33 | 21.09 | 19.84 | 21.81 | 17.71 | 17.68 | 23.95 | 20.04 | 22.39 | 18.07 | 22.29 |
| 32.13 | 76.88 | 13.97 | 15.58 | 14.33 | 15.42 | 13.55 | 16.48 | 15.69 | 14.97 | 17 | 12.99 | 13.58 | 18.54 | 14.04 | 18.23 | 13.91 | 17.97 |
| 32.13 | 77.13 | 12.08 | 12.23 | 13.06 | 12.64 | 11.44 | 13.63 | 11.29 | 12.04 | 12.53 | 12.17 | 12.64 | 16.3 | 11.91 | 14.69 | 12.25 | 14.2 |
| 32.13 | 77.38 | 13.67 | 13.38 | 15.83 | 12.82 | 12.91 | 15.21 | 11.62 | 13.85 | 12.27 | 12.87 | 13.82 | 16.31 | 11.8 | 14.41 | 12.25 | 13.89 |
| 32.13 | 77.63 | 13.89 | 12.29 | 16.58 | 12.48 | 10.12 | 15.88 | 12.36 | 15.47 | 12.68 | 11.44 | 14.22 | 15.4 | 11.63 | 14.71 | 12.21 | 13.95 |
| 32.13 | 77.88 | 13.56 | 11.96 | 15.96 | 12.17 | 10.15 | 15.59 | 12.36 | 15.43 | 12.57 | 11.59 | 13.89 | 15.33 | 11.65 | 15.03 | 12.39 | 13.94 |
| 32.13 | 78.13 | 12.38 | 11.13 | 13.95 | 10.87 | 11.07 | 14.32 | 10.77 | 13.73 | 10.95 | 11.61 | 12.79 | 16.01 | 11.86 | 14.72 | 12.74 | 13.7 |
| 32.13 | 78.38 | 11.85 | 11.84 | 12.24 | 10.29 | 12.89 | 13.04 | 9.79 | 12.44 | 10.02 | 13.6 | 12.12 | 19.05 | 14.31 | 14.46 | 13.41 | 15.52 |
| 31.88 | 76.13 | 19.98 | 21.66 | 19.47 | 21.6 | 21.5 | 23.56 | 23.01 | 21.47 | 23.74 | 19.17 | 18.68 | 23.86 | 22.47 | 23.82 | 21.29 | 23.31 |
| 31.88 | 76.38 | 18.65 | 20.71 | 18.55 | 20.03 | 19.6 | 22.06 | 21.46 | 20.21 | 22.54 | 17.63 | 17.56 | 22.89 | 21.17 | 23.17 | 19.64 | 22.35 |
| 31.88 | 76.63 | 18.09 | 20.01 | 18.45 | 18.75 | 18.25 | 20.94 | 20.09 | 19.62 | 21.2 | 16.39 | 17.24 | 21.09 | 19.09 | 22.46 | 18.31 | 21.34 |
| 31.88 | 76.88 | 16.62 | 18.04 | 17.52 | 16.72 | 14.92 | 19.48 | 17.5 | 18.3 | 18.66 | 13.67 | 16.11 | 17.32 | 15.52 | 20.97 | 15.49 | 19.23 |
| 31.88 | 77.13 | 15.16 | 15.05 | 16.84 | 15 | 9.98 | 17.76 | 14.01 | 15.81 | 14.77 | 10.58 | 15.32 | 13.97 | 12.38 | 16.94 | 12.04 | 14.77 |
| 31.88 | 77.38 | 15.88 | 14.38 | 18.98 | 14.78 | 10.43 | 18.26 | 13.83 | 17.19 | 14.02 | 10.83 | 15.74 | 14.86 | 12.14 | 16.39 | 12.26 | 14.16 |
| 31.88 | 77.63 | 16.94 | 14.82 | 20.35 | 15.17 | 11.89 | 19.19 | 15.34 | 19.73 | 15.6 | 13.04 | 17.12 | 16.99 | 13.92 | 17.85 | 14.47 | 16.15 |

| Lattitude | Longitude | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Table date from the year 2005 to 2020 Continued* | | | | | | | | | | | | | | | | | |
| 31.88 | 77.88 | 16.1 | 13.72 | 19.4 | 14.34 | 11.32 | 18.62 | 14.5 | 19.08 | 14.66 | 12.8 | 16.44 | 16.15 | 13.01 | 16.99 | 13.81 | 15.15 |
| 31.88 | 78.13 | 13.72 | 12.79 | 15.95 | 12.33 | 13.08 | 16.95 | 11.51 | 15.88 | 11.5 | 13.42 | 13.75 | 15.11 | 11.87 | 14.45 | 12.94 | 13.58 |
| 31.88 | 78.38 | 13.35 | 14.79 | 14.04 | 11.91 | 13.33 | 15.36 | 10.39 | 14.32 | 10.47 | 15.17 | 13.24 | 19.17 | 14.74 | 13.83 | 13.48 | 16.58 |
| 31.88 | 78.63 | 12.63 | 14.22 | 12.56 | 11.14 | 13.19 | 13.6 | 9.84 | 12.99 | 10.08 | 15.2 | 12.85 | 16.19 | 13.65 | 11.67 | 12.87 | 16.72 |
| 31.63 | 76.13 | 19.33 | 21.81 | 18.97 | 20.14 | 20.13 | 23.44 | 22.1 | 21.26 | 23.33 | 18.19 | 18.17 | 21.07 | 21.82 | 23.52 | 23.43 | 22.68 |
| 31.63 | 76.38 | 17.61 | 20.7 | 17.85 | 18.78 | 17.3 | 22.03 | 20.1 | 19.71 | 21.87 | 16.02 | 16.61 | 19.53 | 20.35 | 23.17 | 22.15 | 21.04 |
| 31.63 | 76.63 | 17.59 | 20.31 | 18.2 | 18.45 | 15.87 | 21.73 | 19.09 | 19.77 | 20.7 | 14.53 | 16.68 | 18.26 | 17.91 | 23.43 | 19.4 | 19.81 |
| 31.63 | 76.88 | 18.59 | 19.92 | 19.64 | 17.77 | 14.97 | 21.45 | 18.38 | 20.37 | 19.53 | 13.51 | 18.06 | 16.48 | 16.07 | 22.11 | 15.89 | 18.81 |
| 31.63 | 77.13 | 17.63 | 17.2 | 19.16 | 16.96 | 11.68 | 19.76 | 16.42 | 18.25 | 16.77 | 10.98 | 17.45 | 14.38 | 13.78 | 18.16 | 12.45 | 15.12 |
| 31.63 | 77.38 | 17.06 | 15.13 | 19.91 | 16.14 | 10.43 | 19.45 | 15.31 | 18.61 | 15.19 | 10.73 | 16.87 | 14.51 | 12.73 | 17.01 | 12.65 | 13.72 |
| 31.63 | 77.63 | 17.79 | 15.35 | 21.55 | 15.85 | 12.09 | 20.17 | 15.93 | 21 | 16.15 | 13.26 | 17.96 | 16.46 | 14.16 | 17.99 | 14.92 | 15.33 |
| 31.63 | 77.88 | 16.74 | 13.68 | 20.21 | 14.73 | 10.6 | 19.57 | 14.47 | 19.78 | 14.57 | 12.53 | 16.98 | 14.84 | 12.36 | 16.11 | 13.41 | 13.56 |
| 31.63 | 78.13 | 15.76 | 16.5 | 18.01 | 14.55 | 14.12 | 18.97 | 11.98 | 17.95 | 11.85 | 15.51 | 14.76 | 15.25 | 12.75 | 13.05 | 13.33 | 14.55 |
| 31.63 | 78.38 | 15.16 | 17.27 | 17.06 | 14.41 | 14.72 | 18.43 | 11.43 | 17.62 | 11.23 | 15.87 | 14.91 | 17.35 | 14.87 | 12.51 | 13.54 | 18.24 |
| 31.63 | 78.63 | 14.18 | 16.34 | 15.44 | 13.15 | 14.13 | 16.88 | 10.8 | 15.98 | 10.75 | 15.62 | 14.15 | 15.24 | 13.68 | 11.18 | 13.08 | 18.39 |
| 31.38 | 76.63 | 16.62 | 19.3 | 17.19 | 18.44 | 13.18 | 21.24 | 17.44 | 18.57 | 19.08 | 12.75 | 16.05 | 16.38 | 16.92 | 21.16 | 18.93 | 16.69 |
| 31.38 | 76.88 | 17.78 | 18.92 | 18.72 | 17.74 | 12.23 | 20.78 | 17.05 | 18.92 | 18.13 | 11.45 | 17.38 | 16.92 | 14.94 | 19.13 | 15.45 | 14.95 |
| 31.38 | 77.13 | 18.37 | 17.93 | 19.78 | 17.68 | 11.41 | 20.24 | 16.62 | 18.47 | 16.95 | 10.74 | 18.05 | 17.23 | 13.63 | 17.61 | 13.66 | 13.23 |
| 31.38 | 77.38 | 18.06 | 16.12 | 20.74 | 17.25 | 10.69 | 20.17 | 15.65 | 18.75 | 15.47 | 10.89 | 17.36 | 15.75 | 12.29 | 16.3 | 12.92 | 11.99 |
| 31.38 | 77.63 | 17.56 | 14.23 | 20.91 | 15.56 | 10.62 | 20.2 | 14.88 | 19.96 | 14.83 | 11.65 | 16.9 | 14.47 | 12.35 | 15.8 | 13.34 | 12.05 |
| 31.38 | 77.88 | 16.85 | 13.8 | 19.96 | 14.87 | 12.72 | 20.22 | 13.79 | 19.32 | 13.61 | 12.56 | 16.04 | 13.12 | 11.11 | 14.33 | 12.11 | 11.47 |
| 31.38 | 78.13 | 17.9 | 17.73 | 20.14 | 16.35 | 15.24 | 20.85 | 12.71 | 19.96 | 12.35 | 16.46 | 16 | 14.26 | 12.27 | 12.33 | 12.76 | 16.44 |
| 31.38 | 78.38 | 17.62 | 19.05 | 20.23 | 16.79 | 16.88 | 21.25 | 12.68 | 21.36 | 12.23 | 16.56 | 16.71 | 15.88 | 13.2 | 12.46 | 13.38 | 18.5 |
| 31.38 | 78.63 | 17.37 | 17.71 | 19.75 | 15.67 | 15.86 | 20.55 | 12.44 | 20.22 | 11.94 | 16.33 | 15.69 | 16.24 | 11.66 | 12.6 | 12.79 | 17.03 |
| 31.38 | 79.13 | 13.92 | 11.23 | 15.75 | 11.77 | 11.21 | 16.21 | 11.51 | 15.26 | 11.57 | 11.84 | 14.02 | 14.05 | 10.12 | 11.78 | 10.5 | 11.94 |
| 31.13 | 76.63 | 17.13 | 20.46 | 18.67 | 19.19 | 13.41 | 21.85 | 17.7 | 19.63 | 19.67 | 12.49 | 16.76 | 17.66 | 19.18 | 20.01 | 19.03 | 16.12 |
| 31.13 | 76.88 | 18.49 | 19.9 | 20.7 | 18.32 | 12.7 | 21.67 | 17.74 | 20.61 | 19.08 | 11.8 | 18.07 | 19.42 | 18.06 | 19.34 | 18.16 | 14.83 |
| 31.13 | 77.13 | 19.68 | 18.93 | 21.9 | 18.23 | 11.58 | 21.65 | 17.31 | 20.69 | 17.97 | 11.4 | 18.93 | 20.48 | 15.69 | 18.73 | 16.61 | 13.1 |
| 31.13 | 77.38 | 19.35 | 16.64 | 22.08 | 17.72 | 11.25 | 21.23 | 16.05 | 20.31 | 15.99 | 11.39 | 17.8 | 18.3 | 13.27 | 16.77 | 14.35 | 11.96 |
| 31.13 | 77.63 | 18.31 | 14.57 | 20.4 | 15.94 | 12.78 | 20.51 | 14.34 | 19.11 | 13.99 | 12.29 | 15.99 | 14.5 | 11.64 | 14.42 | 12.2 | 11.34 |
| 31.13 | 77.88 | 18.49 | 14.83 | 20.86 | 15.87 | 14.01 | 21.3 | 14.19 | 19.79 | 13.81 | 13 | 16.58 | 13.96 | 11.08 | 14.26 | 11.53 | 11.5 |
| 31.13 | 78.13 | 20.01 | 16.13 | 23.48 | 17.81 | 15.93 | 23.3 | 15.19 | 22.93 | 14.71 | 13.77 | 18.52 | 15.64 | 11.33 | 15.69 | 11.78 | 12.28 |
| 31.13 | 78.38 | 21.05 | 16.38 | 25.21 | 19.21 | 17.68 | 24.5 | 16.01 | 25.38 | 15.5 | 14.31 | 20.17 | 17.56 | 11.95 | 17.28 | 11.98 | 12.78 |
| 31.13 | 78.63 | 21.13 | 15.59 | 25.19 | 19.05 | 17.75 | 24.53 | 16.34 | 25.47 | 15.8 | 13.96 | 20.6 | 19.01 | 12.52 | 17.81 | 12.01 | 13.06 |
| 31.13 | 78.88 | 20.53 | 14.73 | 24.28 | 18.11 | 13.06 | 23.39 | 16.29 | 24.32 | 15.85 | 13.97 | 20.03 | 19.42 | 12.92 | 17.29 | 12.23 | 13.23 |
| 31.13 | 79.13 | 18.25 | 13.42 | 21.44 | 15.75 | 10.92 | 20.53 | 14.95 | 20.58 | 14.81 | 13.2 | 17.48 | 17.52 | 12.42 | 15.28 | 12.11 | 12.84 |
| 30.88 | 76.88 | 20.17 | 21.81 | 23.21 | 19.52 | 14.3 | 23.51 | 19.16 | 23.54 | 20.69 | 12.83 | 19.5 | 20.25 | 22.81 | 20.25 | 20.81 | 16.74 |
| 30.88 | 77.13 | 20.66 | 19.45 | 23.16 | 18.37 | 13.79 | 22.77 | 18.41 | 22.82 | 19.18 | 13.16 | 19.63 | 20.2 | 19.77 | 19.55 | 18.78 | 14.74 |
| 30.88 | 77.38 | 20.6 | 17.39 | 23.43 | 17.81 | 12.82 | 22.48 | 17.53 | 22.69 | 17.83 | 13.08 | 19.32 | 18.95 | 16.69 | 18.6 | 16.44 | 12.98 |
| 30.88 | 77.63 | 20.46 | 15.69 | 23.78 | 17.41 | 12.35 | 22.48 | 16.62 | 22.89 | 16.66 | 12.71 | 19.33 | 17.12 | 14.38 | 17.62 | 14.23 | 11.96 |
| 30.88 | 77.88 | 22.12 | 16.4 | 25.36 | 18.49 | 12.96 | 23.53 | 17.16 | 24.17 | 17.19 | 13.93 | 21.14 | 18.11 | 13.97 | 18.66 | 13.92 | 12.59 |
| 30.88 | 78.13 | 23.92 | 17.49 | 27.63 | 20.42 | 14.61 | 25.17 | 18.52 | 27.02 | 18.5 | 15.91 | 23.81 | 20.41 | 15.06 | 20.7 | 14.82 | 13.84 |
| 30.88 | 78.38 | 24.63 | 17.93 | 28.56 | 21.37 | 16.02 | 26.06 | 19.18 | 28.67 | 19.1 | 17.02 | 25.02 | 21.8 | 15.79 | 21.54 | 15.45 | 14.82 |
| 30.88 | 78.63 | 24.33 | 17.86 | 28.17 | 21.25 | 15.99 | 25.85 | 19.18 | 28.56 | 18.89 | 16.88 | 24.4 | 22.27 | 15.82 | 21.11 | 15.24 | 15.2 |
| 30.88 | 78.88 | 23.23 | 17.73 | 27.19 | 20.74 | 15.2 | 24.84 | 19.17 | 27.36 | 18.7 | 17.12 | 22.85 | 22.07 | 16.02 | 20.39 | 15.32 | 15.59 |
| 30.88 | 79.13 | 21.24 | 16.01 | 24.91 | 18.84 | 12.92 | 22.87 | 17.62 | 24.05 | 17.08 | 15.36 | 19.5 | 20.1 | 14.61 | 18.04 | 14.01 | 14.62 |
| 30.88 | 79.38 | 18.15 | 13.99 | 20.03 | 15.32 | 10.99 | 20.06 | 14.98 | 18.68 | 14.45 | 12.59 | 14.65 | 17.34 | 12.31 | 14.72 | 12.04 | 13.2 |
| 30.88 | 79.63 | 15.75 | 13.89 | 16.24 | 12.88 | 11.08 | 18.06 | 13.83 | 15.79 | 13.44 | 11.88 | 11.98 | 15.62 | 11.64 | 13.4 | 11.55 | 13.08 |
| 30.88 | 79.88 | 14.92 | 14.14 | 15.03 | 12.07 | 11.8 | 17.24 | 13.56 | 15.57 | 13.6 | 12.03 | 11.27 | 13.73 | 11.84 | 13.21 | 11.52 | 13.31 |
| 30.63 | 77.38 | 23.18 | 20.74 | 26.32 | 19.58 | 17.6 | 24.52 | 20.13 | 26.16 | 20.89 | 17.38 | 22.69 | 21.06 | 20.31 | 21.43 | 19.6 | 16.58 |
| 30.63 | 77.63 | 24.47 | 20.62 | 28.38 | 20.79 | 18.16 | 25.52 | 20.54 | 28.05 | 21.21 | 18.85 | 24.59 | 21.87 | 19.17 | 23.06 | 19.05 | 16.11 |
| 30.63 | 77.88 | 26.03 | 21.07 | 30.44 | 22.28 | 19.02 | 26.51 | 21.02 | 29.83 | 21.57 | 19.87 | 26.85 | 23.08 | 18.53 | 24.96 | 18.76 | 16.31 |
| 30.63 | 78.13 | 25.84 | 20.29 | 30.42 | 22.63 | 18.53 | 26.58 | 20.8 | 29.91 | 21.02 | 19.7 | 26.76 | 23.24 | 17.76 | 24.42 | 17.69 | 16.23 |
| 30.63 | 78.38 | 25.32 | 18.6 | 29.54 | 22.16 | 16.98 | 26.32 | 19.81 | 29.31 | 19.56 | 17.76 | 25.32 | 22.97 | 16.31 | 21.98 | 15.81 | 15.46 |
| 30.63 | 78.63 | 24.98 | 17.74 | 28.48 | 21.72 | 15.83 | 25.97 | 19.09 | 28.49 | 18.41 | 16.09 | 23.74 | 22.94 | 15.34 | 20.04 | 14.49 | 14.95 |
| 30.63 | 78.88 | 24.03 | 18.33 | 27.69 | 21.56 | 15.53 | 25.11 | 19.68 | 27.71 | 18.83 | 17.29 | 22.61 | 22.89 | 16.22 | 20.31 | 15.43 | 15.92 |
| 30.63 | 79.13 | 23.04 | 18.34 | 25.9 | 20.79 | 15.19 | 23.74 | 19.55 | 25.51 | 18.4 | 16.83 | 20.25 | 22.11 | 16.3 | 19.92 | 15.59 | 16.23 |
| 30.63 | 79.38 | 19.94 | 16.61 | 20.17 | 17.06 | 12.45 | 20.64 | 17.12 | 20.92 | 15.73 | 13.46 | 15.13 | 19.54 | 13.77 | 16.69 | 12.98 | 14.49 |
| 30.63 | 79.63 | 16.93 | 15.51 | 15.9 | 13.4 | 11.3 | 17.98 | 15.03 | 16.95 | 14.07 | 12.02 | 12.39 | 16.85 | 12.13 | 14.27 | 11.5 | 13.73 |
| 30.63 | 79.88 | 16.25 | 15.07 | 14.96 | 12.58 | 11.67 | 18.11 | 14.51 | 16.9 | 13.99 | 12.17 | 12.18 | 14.29 | 12.45 | 14.25 | 11.47 | 13.7 |
| 30.63 | 80.13 | 15.66 | 14.69 | 14.8 | 12.55 | 12.08 | 18.3 | 14.4 | 17.18 | 14.54 | 12.29 | 11.5 | 12.75 | 13.61 | 15.02 | 11.62 | 13.72 |

| Lattitude | Longitude | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Table date from the year 2005 to 2020 Continued* | | | | | | | | | | | | | | | | | |
| 30.38 | 77.88 | 27.98 | 23.31 | 32.68 | 23.95 | 22.08 | 27.96 | 22.74 | 32.44 | 23.44 | 22.95 | 29.38 | 25.29 | 20.62 | 29.02 | 21.65 | 17.96 |
| 30.38 | 78.13 | 27.34 | 22.42 | 31.6 | 24.07 | 21.71 | 27.7 | 22.44 | 31.39 | 22.77 | 22.72 | 28.23 | 25.02 | 19.88 | 27.32 | 20.47 | 18.06 |
| 30.38 | 78.38 | 27.21 | 20.38 | 30.95 | 23.36 | 19.28 | 27.44 | 20.95 | 30.61 | 20.66 | 19.43 | 26.54 | 24.81 | 17.37 | 23.23 | 17.4 | 16.76 |
| 30.38 | 78.63 | 27.04 | 19.08 | 29.58 | 23.05 | 19.09 | 27.16 | 19.28 | 28.85 | 18.31 | 15.68 | 23.52 | 25.1 | 14.75 | 19.09 | 14.03 | 15.23 |
| 30.38 | 78.88 | 26.53 | 19.12 | 28.77 | 22.72 | 16.44 | 26.03 | 19.72 | 28.44 | 18.47 | 16.36 | 21.97 | 24.68 | 15.34 | 19.29 | 14.39 | 15.83 |
| 30.38 | 79.13 | 25.06 | 19.99 | 26.14 | 22.22 | 15.82 | 24.27 | 20.48 | 26.58 | 18.65 | 16.65 | 19.89 | 23.95 | 16.46 | 20.2 | 15.41 | 16.66 |
| 30.38 | 79.38 | 22.67 | 20.51 | 20.2 | 20.02 | 14.53 | 22.06 | 19.9 | 23.47 | 17.8 | 14.5 | 16.02 | 23.15 | 15.57 | 18.99 | 13.93 | 16.24 |
| 30.38 | 79.63 | 19.57 | 19.35 | 16.01 | 16.21 | 12.83 | 20.01 | 17.91 | 20.01 | 16.69 | 12.68 | 13.37 | 20.65 | 14.19 | 16.95 | 11.94 | 14.57 |
| 30.38 | 79.88 | 18.16 | 17.66 | 15.47 | 15.28 | 12.9 | 20.55 | 17.12 | 20.03 | 15.57 | 12.69 | 12.26 | 16.77 | 14.93 | 17.2 | 11.85 | 14.38 |
| 30.38 | 80.13 | 17.03 | 17.9 | 16.66 | 16.77 | 15 | 21.2 | 18.26 | 20.42 | 17.35 | 14.87 | 12.08 | 16.43 | 17.45 | 19.58 | 13.28 | 15.91 |
| 30.38 | 80.38 | 17.9 | 19.69 | 18.41 | 18.72 | 17.4 | 22.07 | 19.99 | 21.17 | 19.62 | 17.65 | 14.32 | 18.38 | 20.46 | 22.61 | 15.4 | 18.85 |
| 30.38 | 80.63 | 18.67 | 20.88 | 19.29 | 19.23 | 18.12 | 22.64 | 20.65 | 22.02 | 20.04 | 18.28 | 15.14 | 19.61 | 23.12 | 25.87 | 15.65 | 19.59 |
| 30.13 | 77.88 | 29.2 | 23.17 | 34.19 | 24.44 | 21.04 | 29.05 | 22.48 | 34.13 | 23.05 | 22.32 | 31.66 | 26.46 | 19.83 | 30.22 | 21.79 | 17.69 |
| 30.13 | 78.13 | 29.36 | 23.54 | 33.73 | 24.95 | 22.46 | 28.96 | 22.92 | 33.56 | 23.15 | 23.26 | 30.3 | 27.31 | 19.98 | 28.92 | 21.73 | 19.14 |
| 30.13 | 78.38 | 28.81 | 22.77 | 32.39 | 24.47 | 21.12 | 28.38 | 22.27 | 31.7 | 21.68 | 21.26 | 27.79 | 27.5 | 18.43 | 24.77 | 19.71 | 19.15 |
| 30.13 | 78.63 | 28.16 | 21.44 | 30.44 | 23.77 | 19.08 | 27.8 | 20.52 | 29.51 | 19.34 | 17.42 | 24.46 | 27.48 | 15.75 | 20.2 | 15.93 | 17.49 |
| 30.13 | 78.88 | 28.87 | 21.67 | 29.47 | 24.14 | 19.01 | 26.72 | 20.24 | 28.28 | 18.81 | 15.91 | 20.9 | 27.67 | 15.13 | 18.86 | 14.16 | 16.98 |
| 30.13 | 79.13 | 27.91 | 22.23 | 24.78 | 23.23 | 16.94 | 23.92 | 20.84 | 26.2 | 19.4 | 15.13 | 18.2 | 26.78 | 15.74 | 19.22 | 13.89 | 16.55 |
| 30.13 | 79.38 | 23.52 | 23.19 | 18.26 | 20.93 | 15.7 | 21.33 | 21.13 | 23.23 | 19.86 | 14.52 | 15.77 | 25.84 | 16.26 | 19.33 | 13.6 | 16.13 |
| 30.13 | 79.63 | 19.86 | 22.07 | 16.19 | 19.35 | 15.15 | 20.84 | 20.37 | 22.03 | 18.64 | 14.95 | 14.37 | 23.23 | 17.02 | 19.63 | 13.47 | 16.06 |
| 30.13 | 79.88 | 18.68 | 20.48 | 16.8 | 19.44 | 15.7 | 21.91 | 20.09 | 22.1 | 18.02 | 16.01 | 14.05 | 20.42 | 18.65 | 20.94 | 14.3 | 17.1 |
| 30.13 | 80.13 | 18.93 | 20.59 | 18.37 | 20.44 | 17.78 | 23.16 | 21.1 | 22.69 | 19.76 | 18.35 | 15.21 | 19.93 | 20.75 | 22.99 | 16.09 | 19.27 |
| 30.13 | 80.38 | 18.97 | 20.97 | 19.31 | 20.52 | 18.8 | 23.33 | 21.48 | 22.56 | 21.21 | 19.4 | 15.7 | 19.82 | 21.81 | 23.91 | 16.84 | 20.29 |
| 30.13 | 80.63 | 18.97 | 21.3 | 19.67 | 20.1 | 18.84 | 23.2 | 21.3 | 22.39 | 21.62 | 19.23 | 15.67 | 19.75 | 22.61 | 24.82 | 16.67 | 20.96 |
| 29.88 | 77.88 | 29.1 | 23.95 | 34.82 | 25.08 | 23.49 | 30.38 | 21.89 | 35.46 | 21.94 | 20.95 | 31.93 | 33.67 | 18.76 | 27.86 | 19.05 | 20.04 |
| 29.88 | 78.13 | 29.82 | 24.75 | 34.98 | 26.09 | 21.55 | 30.25 | 22.51 | 34.94 | 22.13 | 22.47 | 31.93 | 35.62 | 18.81 | 27.59 | 21.16 | 22.7 |
| 29.88 | 78.38 | 29.77 | 24.24 | 33.46 | 25.41 | 21.69 | 29.03 | 22.94 | 33.03 | 21.97 | 22.25 | 28.53 | 31.43 | 19.2 | 24.86 | 22.24 | 22.89 |
| 29.88 | 78.63 | 29.28 | 24.05 | 31.66 | 24.95 | 21.1 | 28.08 | 22.74 | 31.37 | 20.92 | 20.74 | 24.86 | 29.3 | 18.77 | 22.74 | 20.47 | 21.58 |
| 29.88 | 78.88 | 29.72 | 24.43 | 29.62 | 25.12 | 19.97 | 26.92 | 22.4 | 29.6 | 19.89 | 18.33 | 21.18 | 28.82 | 17.87 | 21.26 | 17.53 | 19.55 |
| 29.88 | 79.13 | 27.6 | 25.36 | 22.25 | 23.58 | 18.96 | 23.61 | 22.33 | 25.98 | 20.44 | 15.51 | 17.35 | 28.34 | 17.34 | 20.1 | 15.05 | 17.66 |
| 29.88 | 79.38 | 23.13 | 26.26 | 16.87 | 21.66 | 17.98 | 21.19 | 22.23 | 23.65 | 20.99 | 15.92 | 15.8 | 27.73 | 17.76 | 20.23 | 14.27 | 16.87 |
| 29.88 | 79.63 | 20.96 | 24.4 | 16.21 | 21.42 | 17.27 | 21.62 | 21.54 | 23.24 | 19.69 | 16.93 | 15.58 | 25.32 | 18.88 | 21.3 | 14.77 | 17.24 |
| 29.88 | 79.88 | 19.8 | 22.09 | 16.91 | 21.25 | 16.97 | 22.35 | 21.14 | 23.16 | 18.89 | 17.83 | 15.91 | 22.54 | 20.11 | 22.41 | 15.63 | 18.25 |
| 29.88 | 80.13 | 19.72 | 21.06 | 18.1 | 21.37 | 17.84 | 23.49 | 21.47 | 23.45 | 19.65 | 19.12 | 16.49 | 21.27 | 21.53 | 23.78 | 16.57 | 19.58 |
| 29.88 | 80.38 | 19.45 | 20.92 | 19.06 | 20.91 | 18.42 | 23.7 | 21.54 | 23.34 | 20.42 | 19.26 | 15.96 | 20.18 | 22.25 | 24.37 | 16.7 | 20.38 |
| 29.63 | 78.63 | 31.42 | 26.79 | 33.2 | 26.75 | 23.21 | 29.04 | 24.24 | 32.55 | 21.47 | 22.31 | 24.26 | 32.18 | 21.56 | 24.66 | 24.31 | 25.22 |
| 29.63 | 78.88 | 30.47 | 27.42 | 28.38 | 26.69 | 22.95 | 27.61 | 24.6 | 30.15 | 20.86 | 19.88 | 20.29 | 29.66 | 21.11 | 23.71 | 20.65 | 22.18 |
| 29.63 | 79.13 | 26.57 | 27.32 | 20.59 | 24.72 | 21.05 | 24.3 | 24.04 | 26.56 | 20.69 | 17.96 | 17.46 | 27.86 | 20.21 | 22.21 | 17.54 | 19.13 |
| 29.63 | 79.38 | 23.31 | 27.23 | 17.07 | 23.05 | 19.4 | 22.21 | 23.2 | 24.49 | 20.57 | 17.9 | 16.47 | 27.41 | 19.87 | 21.77 | 16.19 | 17.68 |
| 29.63 | 79.63 | 22.01 | 26.09 | 15.94 | 21.99 | 18.63 | 21.73 | 22.27 | 23.84 | 20.31 | 17.5 | 15.9 | 26.99 | 19.66 | 21.95 | 15.05 | 16.96 |
| 29.63 | 79.88 | 19.91 | 23.08 | 15.29 | 21.11 | 16.88 | 21.87 | 21.14 | 23.41 | 19.26 | 17.53 | 15.63 | 24.17 | 19.88 | 22.5 | 14.52 | 17.11 |
| 29.63 | 80.13 | 19.43 | 20.77 | 15.99 | 21.21 | 16.45 | 23.17 | 20.76 | 23.52 | 18.75 | 18.88 | 16.2 | 22.26 | 21.22 | 23.61 | 15.03 | 18.46 |
| 29.63 | 80.38 | 19 | 20.28 | 16.89 | 20.95 | 16.56 | 23.97 | 20.78 | 23.4 | 18.96 | 18.98 | 15.82 | 21.1 | 22.55 | 24.35 | 14.86 | 18.87 |
| 29.38 | 79.13 | 26.35 | 28.91 | 20.83 | 25.46 | 22.93 | 26.05 | 24.94 | 27.49 | 20.93 | 19.91 | 17.86 | 27.38 | 22.66 | 23.92 | 19.24 | 20.42 |
| 29.38 | 79.38 | 24.89 | 27.39 | 18.97 | 24.86 | 21.08 | 24.46 | 24.39 | 26.11 | 20.72 | 20.16 | 18.22 | 27.71 | 22.3 | 23.96 | 18.68 | 19.51 |
| 29.38 | 79.63 | 24.02 | 26.98 | 17.72 | 24.33 | 20.09 | 23.99 | 23.83 | 25.67 | 20.71 | 19.71 | 18.01 | 28.37 | 21.9 | 24.14 | 17.5 | 18.64 |
| 29.38 | 79.88 | 21.3 | 24.11 | 15.53 | 22.24 | 18.25 | 23.3 | 21.57 | 24.76 | 20.16 | 18.47 | 17.42 | 27.43 | 21.19 | 23.47 | 15.09 | 17.49 |
| 29.38 | 80.13 | 19.32 | 20.71 | 14.78 | 21.12 | 16.97 | 23.57 | 19.62 | 24.33 | 19.12 | 18.62 | 17.77 | 24.62 | 22.03 | 23.57 | 13.97 | 17.34 |
| 29.13 | 79.38 | 26.13 | 30.29 | 21.02 | 26.43 | 23.71 | 28.42 | 25.22 | 28.74 | 21.61 | 21.96 | 19.39 | 29.04 | 24.85 | 26.34 | 21 | 21.22 |
| 29.13 | 79.63 | 25.33 | 28.97 | 19.56 | 25.69 | 22.21 | 27.49 | 24.76 | 28 | 21.95 | 21.73 | 20.67 | 30.74 | 24.61 | 26.33 | 19.89 | 20.69 |
| 29.13 | 79.88 | 23.33 | 26.4 | 18.04 | 22.96 | 20.5 | 26.48 | 22.55 | 27.43 | 21.89 | 20.67 | 22.43 | 31.3 | 24.52 | 25.81 | 18.01 | 20.01 |
| 29.13 | 80.13 | 21.72 | 23.46 | 17.76 | 21.4 | 20.25 | 26.23 | 20.96 | 27.37 | 22.01 | 20.08 | 23.72 | 30.06 | 25.78 | 26.23 | 17.06 | 20.26 |
| 28.88 | 79.63 | 26.29 | 32.95 | 19.92 | 24.69 | 23.84 | 30.2 | 23.6 | 29.42 | 23.22 | 21.99 | 21.77 | 31.28 | 27.42 | 27.71 | 22.24 | 21.48 |
| 28.88 | 79.88 | 24.81 | 29.89 | 19.18 | 22.05 | 22.55 | 28.48 | 23.95 | 29.59 | 23.74 | 21.55 | 25.02 | 33.06 | 27.55 | 27.64 | 20.32 | 21.81 |