

RUSSIAN FEDERAL SERVICE  
FOR HYDROMETEOROLOGY AND ENVIRONMENTAL MONITORING  
VOEIKOV MAIN GEOPHYSICAL OBSERVATORY  
WMO WORLD RADIATION DATA CENTRE

# SOLAR RADIATION AND RADIATION BALANCE DATA

(THE WORLD NETWORK)

SUPPLEMENT XXVI

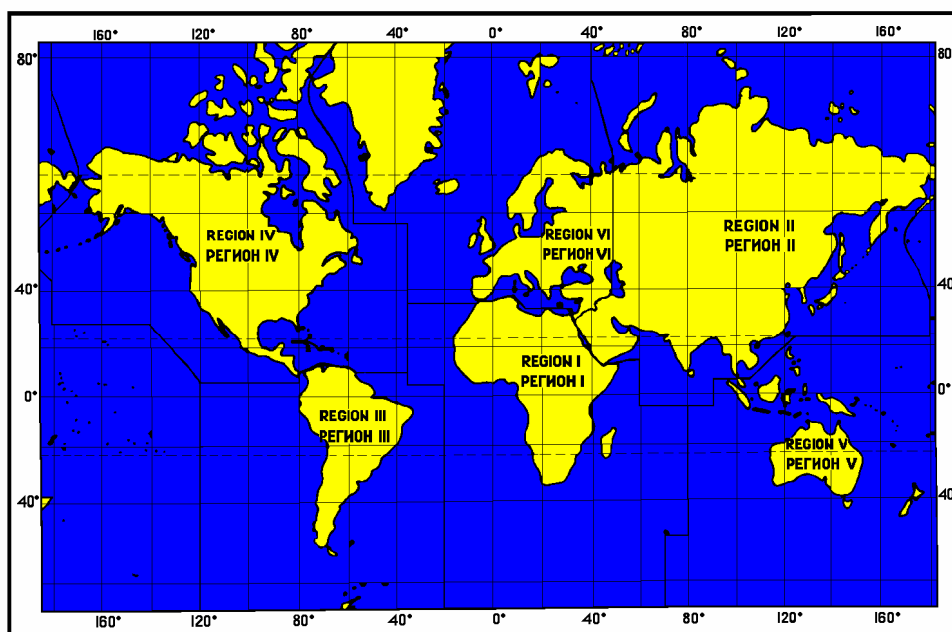


ФЕДЕРАЛЬНАЯ СЛУЖБА РОССИИ  
ПО ГИДРОМЕТЕОРОЛОГИИ И МОНИТОРИНГУ ОКРУЖАЮЩЕЙ СРЕДЫ  
ГЛАВНАЯ ГЕОФИЗИЧЕСКАЯ ОБСЕРВАТОРИЯ ИМЕНИ А.И.ВОЕЙКОВА  
МИРОВОЙ ЦЕНТР РАДИАЦИОННЫХ ДАННЫХ ВМО

# СОЛНЕЧНАЯ РАДИАЦИЯ И РАДИАЦИОННЫЙ БАЛАНС

(МИРОВАЯ СЕТЬ)

ДОПОЛНЕНИЕ XXVI



St. PETERSBURG  
САНКТ - ПЕТЕРБУРГ  
2022

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AND ENVIRONMENTAL MONITORING

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SUPPLEMENT XXVI

SPONSORED BY WORLD METEOROLOGICAL ORGANIZATION



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ДОПОЛНЕНИЕ XXVI

ИЗДАНИЕ ПО ПОРУЧЕНИЮ ВСЕМИРНОЙ МЕТЕОРОЛОГИЧЕСКОЙ ОРГАНИЗАЦИИ

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St. Petersburg, Russian Federation

St. PETERSBURG  
САНКТ - ПЕТЕРБУРГ  
2022

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## PREFACE

The World Radiation Data Centre - WRDC (St.Petersburg, Russian Federation), sponsored by the WMO (Resolution 12, XIV Session of the EC and Resolution 6, XXXVI Session of the EC), issues this publication with the purpose of providing the users with data on solar radiation, radiation balance and sunshine duration in a convenient and readily accessible form.

From 1964 up to 1992 the radiation data were published once a month. Since 1993 the publication has been issued four times a year.

Observational data received by the WRDC with certain delay are published in the supplementary issues.

The issues are distributed among the National Meteorological Services which send their solar radiation data to the WRDC to be archived and published.

Results of observations at radiometric stations should be sent to:

*The Director  
Voeikov Main Geophysical Observatory  
World Radiation Data Centre  
7, Karbyshev Street,  
194021, St.Petersburg,  
Russian Federation*

For inquiries and comments please call:

*tel.: 7 (812) 297-43-90  
fax : 7 (812) 297-86-61  
E-mail: wrdc@main.mgo.rssi.ru*

The WRDC's Web-site is <http://wrdc.mgo.rssi.ru>

## ПРЕДИСЛОВИЕ

Настоящее издание осуществляется Мировым центром радиационных данных (МЦРД, Санкт-Петербург, Российская Федерация) по поручению ВМО / Резолюция 12 (ИК - XIV) и Резолюция 6 (ИС - XXXVI) / с целью представления результатов наблюдений мировой наземной сети за солнечной радиацией, радиационным балансом земной поверхности и продолжительностью солнечного сияния в удобной и доступной для потребителей форме.

С 1964 г. публикации осуществлялись ежемесячно. В 1993 г. была изменена периодичность издания - сборники с радиационными данными стали издаваться четыре раза в год.

Материалы наблюдений, поступившие в МЦРД несвоевременно, публикуются в дополнительных выпусках.

Издания рассылаются национальным метеорологическим службам, представляющим в МЦРД для архивации и публикации материалы радиационных наблюдений.

Результаты наблюдений радиометрических станций следует высылать по адресу:

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обсерватории им.А.И.Воейкова,  
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Карбышева 7,  
194021, Санкт-Петербург,  
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Для контактов:

*tel.: 7 (812) 297-43-90  
fax : 7 (812) 297-86-61  
E-mail: wrdc@main.mgo.rssi.ru*

Интернет-страница МЦРД по адресу : <http://wrdc.mgo.rssi.ru>

## EXPLANATORY NOTES ON THE TABLES

In 1981 the World radiometric network changed over to the use of a new pyrheliometric scale - the World Radiometric Reference (WRR).

Data on solar radiation and radiation balance are expressed in  $\text{J cm}^{-2}$ , data on sunshine duration are given in hours.

Observational data in each table of the publication are arranged according to the Regions adopted by the WMO, countries within Regions are listed in the order of English alphabet, stations of each country are placed by their coordinates from north to south and, if their latitudes are equal, from west to east.

Hourly intervals are given in **True Solar Time (TST)**.

For convenience each issue is provided with a list of stations with their synoptic WMO index (if available), full name, latitude, longitude and elevation above sea level, as well as types (symbols) of the instruments which were used for measurements.

### Procedure to Calculate Daily and Monthly Totals

1. A daily total of radiation balance is determined in case the data for all hour intervals of the 24-hour period are available.  
If at least one hourly total value is missing, the daily total is not calculated and the sign of missing data "-" is entered in the table instead.
2. Daily totals of global and diffuse radiation are determined in case the data for all hour intervals of the daytime are available, with the exception of sunrise and sunset hour intervals.  
To avoid unduly great losses of daily totals due to the gaps in the data for sunrise and sunset hours, the following procedure of data processing is accepted.  
In case observational data are missing for the above-mentioned hour intervals on a number of days, we recommend to determine  $h_s$  (sun's altitude) for those hours.  
If  $h_s > 5^\circ$ , the lack of an hourly total is identified as the lack of observation, and the daily total is not determined for that day.  
If  $h_s \leq 5^\circ$ , the daily total is calculated in similar situation.
3. If data for each day of the month are available:
  - a) the monthly total is calculated by adding together daily/hourly totals for each day of the month;
  - b) the monthly mean of daily/hourly totals is calculated by dividing the monthly total by the number of days in the calendar month.
4. If there are days with missing data, first of all the monthly mean of daily/ hourly totals is calculated and then monthly total is obtained:
  - a) the monthly mean of daily/hourly totals is calculated by dividing the sum of daily/hourly totals for the days with available data (including estimated and questionable values) by the number of days with observations;
  - b) the monthly total is calculated by multiplying the monthly mean of daily/ hourly totals by the number of days in the calendar month.
5. If there are 10 or more days with missing daily/hourly totals, the monthly total and the monthly mean of daily/ hourly totals are not calculated and "-" is entered in respective columns.
6. If there are from 5 to 9 days with missing daily/hourly totals, the monthly total and the monthly mean of daily/hourly totals are enclosed in brackets.
7. If there are 5 or more daily/hourly totals enclosed in brackets (estimated or questionable), the monthly totals and the monthly mean of daily/hourly totals are enclosed in brackets.
8. If the number of days with missing daily/hourly totals and daily/hourly totals in brackets added together is from 5 to 9, the monthly total and the monthly mean of daily/hourly totals are enclosed in brackets, and if there are 10 or more such days the monthly total and the monthly mean of daily/ hourly totals are not calculated and "-" is entered in respective columns. All radiation parameters and sunshine duration are subject to this rule.
9. The monthly means of daily totals of appropriate radiation parameters from Tables I-III are also given in Tables IV-VI along with monthly means of hourly totals. If all monthly means of hourly totals have calculated, but there are 10 or more days with missing daily totals, the monthly mean of daily totals is calculated by summing up the monthly means of hourly totals for all hour intervals of the 24-hour period for radiation balance and for all hour intervals of the daytime for global and diffuse radiation.

## Notes

1. It should be mentioned that some discrepancies may occur between solar radiation and sunshine duration values measured under the similar conditions of radiation climate because different types of measuring instruments are used by the World solar radiation network.
2. For the stations of Sweden, United Kingdom and Japan (Ishigakijima) of the sunshine duration means the time when the direct solar radiation is above the threshold equal to  $120 \text{ W m}^{-2}$  as measured by the Kipp and Zonen CSD and the Kipp and Zonen CH1.
3. Solar radiation registration is not available at stations of Ukraine. Observations are made at fixed hours. The daily totals of global radiation are calculated.

## ПОЯСНЕНИЯ К ТАБЛИЦАМ

С 1981г. мировая актинометрическая сеть перешла на использование новой пиргелиометрической шкалы-Мирового радиометрического эталона (МРЭ).

Данные по солнечной радиации и радиационному балансу приводятся в  $\text{Дж}\cdot\text{см}^{-2}$ , по продолжительности солнечного сияния - в часах.

Материалы в каждой таблице сборника расположены по регионам ВМО, внутри регионов - по странам в порядке английского алфавита, в каждой стране - по станциям в соответствии с их координатами в направлении с севера на юг, при равенстве широт - с запада на восток.

Часовые интервалы указаны по истинному солнечному времени.

Для удобства пользования материалами в каждом сборнике приводится список станций, в котором указываются синоптический индекс ВМО (если он имеется), полное название, широта, долгота и высота станций, а также условными обозначениями типы измерительных приборов, с помощью которых были произведены наблюдения.

## Методика расчета суточных и месячных сумм

1. Суточная сумма радиационного баланса определяется при наличии данных за все часовые интервалы суток.  
Если отсутствует хотя бы одна часовая сумма, то суточная сумма не определяется и вместо нее в таблицах проставляется признак отсутствия данных "-".
2. Суточные суммы суммарной и рассеянной солнечной радиации определяются при наличии данных за все часовые интервалы светового дня.  
Исключение составляют часовые интервалы восхода и захода солнца.  
Для того, чтобы избежать неоправданно больших потерь суточных сумм из-за отсутствия данных в указанных интервалах, принята следующая методика обработки.  
При отсутствии в отдельные дни в указанных интервалах результатов наблюдений рекомендуется для этих часовых интервалов определять высоту солнца.  
Если высота солнца  $> 5^\circ$ , то отсутствие часовой суммы идентифицируется как отсутствие наблюдения и суточная сумма за этот день не определяется.  
Если высота солнца  $\leq 5^\circ$ , то в аналогичной ситуации суточная сумма вычисляется.
3. При наличии данных за все дни месяца:
  - а) месячная сумма определяется путем суммирования суточных (часовых) сумм за все дни месяца;
  - б) средняя за месяц суточная (часовая) сумма определяется делением месячной суммы на число дней в календарном месяце.
4. При наличии пропусков в данных сначала определяется средняя за месяц суточная (часовая) сумма, затем - месячная сумма:
  - а) средняя за месяц суточная (часовая) сумма получается в результате деления суммы суточных (часовых) значений за дни с наличием данных (включая восстановленные и сомнительные значения) на число дней с наблюдениями;
  - б) сумма за месяц определяется путем умножения средней за месяц суточной (часовой) суммы на число дней в календарном месяце.
5. При отсутствии суточных (часовых) сумм за 10 дней и более сумма за месяц и соответственно средняя за месяц суточная (часовая) сумма не вычисляются и в соответствующих графах таблицы проставляется "-".
6. При отсутствии суточных (часовых) сумм за 5-9 дней сумма за месяц и средняя за месяц суточная (часовая) сумма заключаются в скобки.
7. При наличии за месяц 5 и более суточных (часовых) сумм, заключенных в скобки (восстановленных или сомнительных), сумма за месяц и средняя за месяц суточная (часовая) сумма помещаются в скобки.

8. Если число дней с пропусками суточных (часовых) сумм и суточными (часовыми) суммами, заключенными в скобки, в совокупности составляет от 5 до 9 дней, то сумма за месяц и средняя за месяц суточная (часовая) сумма помещаются в скобки, а если составляет 10 дней и более, то сумма за месяц и средняя за месяц суточная (часовая) сумма не определяются и в соответствующих графах таблиц проставляется "-". Этому правилу должны подчиняться все радиационные параметры и продолжительность солнечного сияния.
9. В таблицах IV-VI наряду со средними за месяц часовыми суммами приводятся также средние за месяц суточные суммы соответствующих радиационных параметров из таблиц I-III. Если вычислены все средние за месяц часовые суммы, но при этом отсутствуют более 9 суточных сумм, то средняя за месяц суточная сумма определяется путем суммирования средних за месяц часовых сумм за все часовые интервалы суток для радиационного баланса и за все часовые интервалы светового дня для суммарной и рассеянной радиации.

### Примечания

1. Вследствие использования на мировой актинометрической сети различных типов измерительных приборов возможны некоторые несоответствия между значениями солнечной радиации и продолжительности солнечного сияния для пунктов, расположенных в сходных условиях радиационного климата.
2. На станциях Швеции и Великобритании, а также на станции Исигакидзима в Японии продолжительность солнечного сияния определяется по результатам измерения прямой солнечной радиации (Kipp Zonen CSD и Kipp Zonen CH1) как отрезок времени, в течение которого прямая радиация превышала пороговое значение, равное  $120 \text{ Вт} \cdot \text{м}^{-2}$ .
3. На станциях Украины отсутствует регистрация солнечной радиации. Наблюдения проводятся по срокам. Для определения суточных сумм суммарной радиации используются расчетные методы.

### Abbreviations Used in the Publication

|                               |                                     |
|-------------------------------|-------------------------------------|
| AEROLOG.STN                   | Aerological Station                 |
| ARPT                          | Airport                             |
| C.                            | Capre                               |
| CENTR.OBS.                    | Central Observatory                 |
| INST. GEOFIS.                 | Instituto de Geofisica              |
| EXPDN                         | Expedition                          |
| INT.ARPT                      | International Airport               |
| IS.                           | Island                              |
| ISLS                          | Islands                             |
| M.                            | Mount                               |
| M.OBS.                        | Main Observatory                    |
| MET.CENTRE                    | Meteorological Centre               |
| MET.OBS.                      | Meteorological Observatory          |
| MET.RES.STN                   | Meteorological Research Station     |
| OBS.                          | Observatory                         |
| RES.STN                       | Research Station                    |
| SOLAR RADIATION RESEARCH LAB. | Solar Radiation Research Laboratory |
| UNIV.                         | University                          |

### Принятые сокращения

|                                   |   |
|-----------------------------------|---|
| АЭР.                              | аэропорт  |
| АЭРОЛОГ.СТ.                       | аэрологическая станция                              |
| Г.                                | гора  |
| ГЛАВН.ОБС.                        | главная обсерватория                                |
| ИНСТ. ГЕОФИЗ.                     | институт геофизики                                  |
| ИМ.                               | имени   |
| ИССЛ.ЛАБОРАТОРИЯ ПО СОЛН.РАДИАЦИИ | исследовательская лаборатория по солнечной радиации |
| М.                                | мыс   |
| МЕЖД. АЭР.                        | международный аэропорт                              |
| МЕТ.НАУЧ.СТ.                      | метеорологическая научная станция                   |
| МЕТ.ОБС.                          | метеорологическая обсерватория                      |
| МЕТ.ЦЕНТР                         | метеорологический центр                             |
| НАУЧ.СТ.                          | научная станция                                     |
| О.                                | остров  |
| О-ВА                              | острова   |
| ОБС.                              | обсерватория  |
| УН-Т                              | университет   |
| ЦЕНТР.ОБС.                        | центральная обсерватория                            |
| ЭКСПЕД.                           | экспедиция  |

**Symbols Used in the Tables I-VII****Условные обозначения в Таблицах I-VII**

|       |  |  |
|-------|--|--|
| 2001  | year, month (2020, January)  | год, месяц (2020, январь)  |
| TG    | monthly total of global radiation  | месячная сумма суммарной радиации                                      |
| MG    | monthly mean of daily totals of global radiation                                 | средняя за месяц суточная сумма суммарной радиации                     |
| TD    | monthly total of diffuse radiation   | месячная сумма рассеянной радиации                                     |
| MD    | monthly mean of daily totals of diffuse radiation                                | средняя за месяц суточная сумма рассеянной радиации                    |
| TQ    | monthly total of radiation balance   | месячная сумма радиационного баланса                                   |
| MQ    | monthly mean of daily totals of radiation balance                                | средняя за месяц суточная сумма радиационного баланса                  |
| TS    | monthly total of sunshine duration   | месячная сумма продолжительности солнечного сияния                     |
| MS    | monthly mean of daily totals of sunshine duration                                | средняя за месяц суточная сумма продолжительности солнечного сияния    |
| P.N.  | polar night  | полярная ночь  |
| -     | value is not available or is rejected at National Meteorological Service         | значение отсутствует или забраковано национальной метеослужбой         |
| -r    | value is rejected at WRDC  | значение забраковано МЦРД  |
| 654)  | questionable value as estimated at National Meteorological Service               | сомнительное значение по оценке национальной метеослужбы               |
| 873e  | value calculated or interpolated at National Meteorological Service              | значение, рассчитанное или интерполированное национальной метеослужбой |
| 1583m | value considered outlier to own climate-defined upper limit as estimated at WRDC | значение превосходит климатический предел по оценке МЦРД               |
| 125q  | questionable value as estimated at WRDC  | сомнительное значение по оценке МЦРД                                   |
| 1052i | diffuse radiation value exceeds associated global radiation value                | значение рассеянной радиации превосходит значение суммарной радиации   |
| *     | data on sunshine duration is presented by a nearby station                       | данные по солнечному сиянию приводятся по близлежащей станции          |



| <b>Symbols Used in the List of Stations</b> |   | <b>Условные обозначения в Списке станций</b>                   |
|---|---|--|
| CDI   | Bellani pyranometer                                       | пиранометр Беллани   |
| KZ  | Kipp and Zonen pyranometer                                | пиранометр Кипп-Зонена   |
| PSP   | Eppley precision spectral pyranometer                     | прецизионный спектральный пиранометр Эппли                     |
| TB/R/                                       | bimetallic actinograph                                    | актинограф биметаллический                                     |
| TT  | thermoelectric pyranometer                                | пиранометр термоэлектрический                                  |
| TT/E/                                       | Eppley pyranometer  | пиранометр Эппли   |
| TT/EKO/                                     | EKO pyranometer   | пиранометр ЭКО   |
| TT/IS/                                      | SODECO integrated pyranometer                             | интегрирующий регистратор суммарной радиации SODECO            |
| TT/LICOR/                                   | Li-Cor pyranometer  | пиранометр Li-Cor  |
| TT/M/                                       | M-80 pyranometer  | пиранометр M-80  |
| TT/MG/                                      | Moll-Gorczynsky pyranometer                               | пиранометр Молля-Горчинского                                   |
| TT/S/                                       | stellar pyranometer                                       | пиранометр звездчатый  |
| TT/SN/                                      | Sonntag pyranometer                                       | пиранометр Зонтага   |
| SR-75                                       | Spectrolab SR-75 pyranometer                              | спектральный пиранометр SR-75                                  |
| NIP   | Normal incidence pyrhelimeter                             | пиргелиометр на перпендикулярную к солнечному лучу поверхность |
| BT/F/                                       | Funk net pyrradiometer                                    | балансомер Функа   |
| BT/GD/                                      | Gier and Duncle net pyrradiometer                         | балансомер Гира и Данкла                                       |
| BT/M/                                       | M-10 net pyrradiometer                                    | балансомер M-10  |
| BT/S/                                       | Schulze net pyrradiometer                                 | балансомер Шульце  |
| BT/SF/                                      | Suomi-Franssila net pyrradiometer                         | балансомер Суоми-Франсила                                      |
| BT./  | other designs of net pyrradiometer                        | прочие модели балансомера                                      |
| SS/A/                                       | automatic heliographe                                     | автоматический гелиограф                                       |
| SS/C/                                       | Campbell-Stokes sunshine recorder                         | регистратор солнечного сияния Кемпбелла-Стокса                 |
| SS/CS/                                      | Casella sunshine recorder                                 | регистратор солнечного сияния Казеллы                          |
| SS/EKO/                                     | EKO sunshine recorder                                     | регистратор солнечного сияния ЭКО                              |
| SS/FO/                                      | CIMEL Fibre optique sunshine recorder                     | регистратор солнечного сияния с оптическим волокном CIMEL      |
| SS/H/                                       | Haenni-type sunshine recorder                             | регистратор солнечного сияния Хэнни                            |
| SS/J/                                       | Jordan sunshine recorder                                  | регистратор солнечного сияния Джордана                         |
| SS/PREDE/                                   | PREDE sunshine recorder                                   | регистратор солнечного сияния PREDE                            |
| SS/SONI/                                    | SONI sunshine recorder                                    | регистратор солнечного сияния SONI                             |
| SS/SD6/                                     | electronic sunshine recorder SD6                          | электронный регистратор солнечного сияния SD6                  |
| KZ/CSD/                                     | Kipp and Zonen CSD sunshine sensor                        | датчик солнечного сияния Кипп-Зонена CSD                       |
| +   | - information on instrument type is not available at WRDC | сведения о типе прибора в МЦРД отсутствуют                     |

TABLE I. DAILY AND MONTHLY TOTALS OF GLOBAL RADIATION ( $J\ cm^{-2}$ )  
 MONTHLY TOTALS OF SUNSHINE DURATION (hour)  
 ТАБЛИЦА I. СУТОЧНЫЕ И МЕСЯЧНЫЕ СУММЫ СУММАРНОЙ РАДИАЦИИ ( $Дж\cdot см^{-2}$ )  
 МЕСЯЧНЫЕ СУММЫ ПРОДОЛЖИТЕЛЬНОСТИ СОЛНЕЧНОГО СИЯНИЯ (час)

|           |                   | REGION I     |       |       | AFRICA / РЕГИОН I |       |  | АФРИКА |  |  |  |  |
|-----------|-------------------|--------------|-------|-------|-------------------|-------|--|--------|--|--|--|--|
| COUNTRY   | MADEIRA           |              |       |       |                   |       |  |        |  |  |  |  |
| СТРАНА    | МАДЕЙРА           |              |       |       |                   |       |  |        |  |  |  |  |
| STATION   | PORTO SANTO ARPT  | FUNCHAL OBS. |       |       |                   |       |  |        |  |  |  |  |
| СТАНЦИЯ   | ПОРТУ-САНТУ, АЭР. | ФУНЧАЛ, ОБС. |       |       |                   |       |  |        |  |  |  |  |
| DATE/ДАТА | 2001              | 2002         | 2003  | 2001  | 2002              | 2003  |  |        |  |  |  |  |
| 1         | 1118              | 1509         | 1418  | 1098  | 1494              | 1580  |  |        |  |  |  |  |
| 2         | 1049              | 1626         | 1698  | 1089  | 1611              | 842   |  |        |  |  |  |  |
| 3         | 1078              | 1650         | 1802  | -     | 1638              | 822   |  |        |  |  |  |  |
| 4         | 1153              | 1478         | 1418  | 1299  | 1454              | 1691  |  |        |  |  |  |  |
| 5         | 996               | 1485         | 1679  | 687   | -                 | 1237  |  |        |  |  |  |  |
| 6         | 1201              | 1459         | 1652  | 838   | 1625              | 1857  |  |        |  |  |  |  |
| 7         | 1145              | 1436         | 1276  | 1222  | 1250              | 2100  |  |        |  |  |  |  |
| 8         | 778               | 1464         | 2315  | 1002  | 1630              | 2180  |  |        |  |  |  |  |
| 9         | 882               | 1696         | 2330  | 603   | 1265              | 2235  |  |        |  |  |  |  |
| 10        | 767               | 886          | 2330  | 1408  | 1702              | 2253  |  |        |  |  |  |  |
| 11        | 463               | 1095         | 2195  | 1158  | 716               | 2078  |  |        |  |  |  |  |
| 12        | 364               | 1000         | 1719  | 509   | 1117              | 1831  |  |        |  |  |  |  |
| 13        | 355               | 1628         | 1733  | 1138  | 1573              | 1162  |  |        |  |  |  |  |
| 14        | 848               | 1415         | 1183  | 916   | 1580              | 538   |  |        |  |  |  |  |
| 15        | 1338              | 1162         | 1907  | 1131  | 859               | 1015  |  |        |  |  |  |  |
| 16        | 1125              | 798          | 1200  | 656   | 963               | 2197  |  |        |  |  |  |  |
| 17        | 1318              | 1000         | 1515  | 1366  | 1794              | 1161  |  |        |  |  |  |  |
| 18        | 1424              | 670          | 1911  | 1451  | 1539              | 2209  |  |        |  |  |  |  |
| 19        | 705               | 814          | 1364  | 1386  | 1861              | 1748  |  |        |  |  |  |  |
| 20        | 908               | 1137         | 1810  | 1026  | 1058              | 2356  |  |        |  |  |  |  |
| 21        | 947               | 474          | 1843  | 962   | 603               | 2114  |  |        |  |  |  |  |
| 22        | 1323              | 1757         | 1425  | 913   | -                 | 1500  |  |        |  |  |  |  |
| 23        | 1249              | 1751         | 1470  | 1299  | -                 | 1060  |  |        |  |  |  |  |
| 24        | 1025              | 1547         | 1518  | 1356  | -                 | 738   |  |        |  |  |  |  |
| 25        | 1105              | 1518         | 2328  | 1078  | -                 | 805   |  |        |  |  |  |  |
| 26        | 1273              | 1238         | 1453  | 1422  | 1922              | 709   |  |        |  |  |  |  |
| 27        | 980               | 957          | 2200  | 1609  | 2009              | 1865  |  |        |  |  |  |  |
| 28        | 1384              | 1327         | 2310  | 1355  | 1544              | 1946  |  |        |  |  |  |  |
| 29        | 1400              | 1815         | 1557  | 1434  | 1928              | 977   |  |        |  |  |  |  |
| 30        | 1530              | -            | 2119  | 1548  | -                 | 2382  |  |        |  |  |  |  |
| 31        | 1194              | -            | 1981  | 1321  | -                 | 2050  |  |        |  |  |  |  |
| TG        | 32425             | 37792        | 54659 | 35423 | 41971)            | 49238 |  |        |  |  |  |  |
| MG        | 1046              | 1303         | 1763  | 1143  | 1447)             | 1588  |  |        |  |  |  |  |
| TS        | -                 | -            | -     | -     | -                 | -     |  |        |  |  |  |  |
| MS        | -                 | -            | -     | -     | -                 | -     |  |        |  |  |  |  |

|           |                           | REGION II |       |       | ASIA / РЕГИОН II |       |        | АЗИЯ                   |       |       |       |       |       |       |       |
|-----------|---------------------------|-----------|-------|-------|------------------|-------|--------|------------------------|-------|-------|-------|-------|-------|-------|-------|
| COUNTRY   | INDIA                     |           |       |       |                  |       |        |                        |       |       |       |       |       |       |       |
| СТРАНА    | ИНДИЯ                     |           |       |       |                  |       |        |                        |       |       |       |       |       |       |       |
| STATION   | NEW DELHI /<br>SAFDARJUNG | JODHPUR   |       |       | SHILLONG         |       |        | CALCUTTA /<br>DUM DUM  |       |       |       |       |       |       |       |
| СТАНЦИЯ   | НЬЮ-ДЕЛИ /<br>САФДАРДЖУНГ | ДЖОДЖПУР  |       |       | ШИЛЛОНГ          |       |        | КАЛЬКУТТА /<br>ДУМ-ДУМ |       |       |       |       |       |       |       |
| DATE/ДАТА | 2010                      | 2011      | 2012  | 2007  | 2008             | 2009  | 2010   | 2011                   | 2012  | 2010  | 2011  | 2012  | 2007  | 2008  | 2009  |
| 1         | -                         | 1348      | 1136  | 1935  | 1567             | 1005  | -      | 1546                   | 1418  | -     | 962   | 1457  | 1929  | 1661  | 354   |
| 2         | -                         | 1281      | 1169  | 2397  | 2312             | 1890  | -      | 1575                   | 1427  | -     | 1026  | 1209  | 2130  | 1372  | 1397  |
| 3         | -                         | 1418      | 1123  | -     | 2178             | 882   | -      | 1625                   | 1370  | -     | 1344  | 1108  | 1664  | 1552  | 2116  |
| 4         | -                         | 947       | 1088  | -     | 2109             | 1306  | -      | 1606                   | 1362  | -     | 1776  | 843   | 1356  | 142   | 1138  |
| 5         | -                         | 1131      | 1039  | 2238  | 2215             | 1400  | -      | 1607                   | 1301  | -     | 1773  | 717   | 1092  | 622   | 1285  |
| 6         | -                         | 1008      | 1074  | 1630  | 2029             | 528   | -      | 1568                   | 1327  | -     | 1740  | 917   | 1456  | 680   | 1813  |
| 7         | 1781                      | 1205      | 1025  | 2087  | 1185             | 1266  | 1989   | 1527                   | 1323  | -     | 1792  | 1148  | 1311  | 1505  | 1381  |
| 8         | 1745                      | 949       | 1063  | 2211  | 962              | 1896  | 2015   | 1527                   | 1287  | -     | 1805  | 1059  | 1543  | 1379  | 1100  |
| 9         | 1533                      | -         | 1056  | 1624  | 1758             | 1597  | 1989   | 1477                   | 1263  | -     | 1784  | 1299  | 1409  | 1600  | 1345  |
| 10        | 1607                      | 1090      | 1043  | 2186  | 1182             | 2053  | -      | 1435                   | 1263  | -     | 1781  | 1063  | 2026  | 1419  | 944   |
| 11        | 1529                      | 1207      | 654   | 1551  | 1265             | 2106  | -      | 1287                   | 992   | -     | 1747  | 1349  | 1084  | 1211  | 1808  |
| 12        | 1503                      | 1056      | 762   | 2054  | 1352             | 2003  | 1977   | 1177                   | 1244  | -     | 1719  | 1255  | 1521  | 1442  | 1181  |
| 13        | -                         | 1229      | 1180  | 2248  | 1501             | -     | 1985   | 1308                   | 1288  | -     | 1682  | 1072  | 1059  | 1798  | 1684  |
| 14        | 1165                      | 985       | 1177  | 2041  | 1340             | -     | 1847   | 1382                   | 1254  | -     | 1626  | 1276  | 1877  | 1632  | 1646  |
| 15        | 1461                      | 928       | 1046  | 2279  | 168              | -     | 1425   | 1376                   | 1150  | -     | 1666  | 1382  | 1579  | -     | 980   |
| 16        | 1545                      | 805       | 1032  | 2370  | 1114             | -     | 1541   | 1367                   | 1108  | -     | 1655  | 1373  | 1777  | 1581  | 1878  |
| 17        | 1358                      | 1344      | 1125  | 1889  | 1683             | -     | 1359   | 1101                   | 1379  | -     | 1195  | 1400  | 1972  | 752   | -     |
| 18        | 1446                      | 1267      | 1165  | 1706  | 1567             | -     | 453    | 1378                   | 1465  | -     | -     | 1437  | 1689  | 823   | -     |
| 19        | 1577                      | 1238      | 1125  | 1975  | 1740             | -     | 1244   | 1445                   | 1457  | 861   | 1339  | 1375  | 1662  | 1149  | -     |
| 20        | 1577                      | 1332      | 1171  | 1862  | 1265             | -     | 1683   | 1489                   | 1122  | 1069  | 957   | 1419  | 1357  | 644   | -     |
| 21        | 1522                      | 1322      | 1032  | 1393  | 2120             | -     | 1584   | 1482                   | 1426  | 1291  | 1137  | 1460  | 639   | 474   | -     |
| 22        | 1112                      | 1296      | 1021  | 2217  | 1861             | -     | 1821   | 1441                   | 1335  | 691   | 1445  | 1328  | 799   | 1016  | -     |
| 23        | 1319                      | 1068      | 967   | 2483  | 1392             | -     | 1796   | 1415                   | 1340  | 409   | 1524  | 1394  | 572   | 1018  | -     |
| 24        | 1453                      | 1019      | 1035  | 2087  | 419              | -     | 1675   | 1282                   | 1297  | 1294  | 1523  | 1060  | 1101  | 1371  | -     |
| 25        | 1345                      | 670       | 1088  | 1890  | 977              | -     | 1797   | 952                    | 1268  | 1886  | 1555  | 1456  | 1657  | 1841  | -     |
| 26        | 1225                      | 1142      | 1097  | 2036  | 1533             | -     | 1751   | 1047                   | 1215  | -     | 1435  | 1423  | 1711  | 836   | -     |
| 27        | 1323                      | 1321      | 918   | 2384  | 1726             | -     | 1631   | 1439                   | 1313  | 1141  | 994   | 1359  | 937   | 502   | -     |
| 28        | 1235                      | 1324      | 1136  | 2345  | 1379             | -     | 1667   | 1473                   | 1454  | 1797  | 1343  | 1409  | 952   | 1369  | -     |
| 29        | 1174                      | 1297      | 1082  | 2264  | 1434             | -     | 1615   | 1451                   | 1430  | 1746  | 1500  | 1358  | 1380  | 1737  | -     |
| 30        | 1314                      | 1170      | 1004  | 2110  | 1057             | -     | 1578   | 1428                   | 1418  | 1871  | 1557  | 1475  | 1405  | 1597  | -     |
| 31        | 1334                      | -         | 904   | 1803  | 1075             | -     | 1579   | -                      | 1382  | 706   | -     | 1456  | 1665  | 1309  | -     |
| TG        | 44153)                    | 34549     | 32537 | 63384 | 45465            | -     | 51219) | 42213                  | 40678 | -     | 44878 | 39336 | 44311 | 37235 | -     |
| MG        | 1424)                     | 1152      | 1050  | 2045  | 1467             | -     | 1652)  | 1407                   | 1312  | -     | 1496  | 1269  | 1429  | 1201  | -     |
| TS        | -                         | -         | -     | 261.4 | 162.3            | 213.0 | 263.4  | 239.2                  | 249.3 | 160.1 | 231.0 | 206.6 | 129.3 | 119.2 | 127.1 |
| MS        | -                         | -         | -     | 8.5   | 5.3              | 7.2   | 8.5    | 8.0                    | 8.1   | 5.1   | 7.8   | 6.7   | 4.2   | 3.8   | 4.3   |

## REGION II ASIA / РЕГИОН II АЗИЯ

| COUNTRY<br>СТРАНА  | INDIA<br>ИНДИЯ                                  |       |        | NAGPUR /<br>SONEGAON<br>НАГПУР /<br>СОНЕГАОН |        |       | BOMBAY /<br>SANTACRUZ<br>БОМБЕЙ /<br>САНТА-КРУС |       |       | PUNE<br>ПУНА |       |       |       |       |       |
|--------------------|---|-------|--------|--|--------|-------|---|-------|-------|--------------|-------|-------|-------|-------|-------|
| STATION<br>СТАНЦИЯ | CALCUTTA /<br>DUM DUM<br>КАЛЬКУТТА /<br>ДУМ-ДУМ |       |        |  |        |       |   |       |       |              |       |       |       |       |       |
| DATE/ДАТА          | 2010  | 2011  | 2012   | 2007   | 2010   | 2011  | 2012  | 2010  | 2011  | 2012         | 2007  | 2008  | 2009  | 2010  | 2011  |
| 1                  | -   | 1412  | 1341   | -  | -      | 1645  | 1613  | 2215  | 1576  | 1284         | -     | 2100  | 1998  | -     | 1636  |
| 2                  | 1651  | 1480  | 1198   | 2068   | -      | 1625  | 1631  | 1333  | 1300  | 1318         | -     | 1957  | 1915  | -     | 1545  |
| 3                  | 1043  | 1442  | 1104   | 1113   | -      | 1718  | 1664  | 1171  | 1408  | 1417         | -     | 1321  | 1873  | -     | 1714  |
| 4                  | 1222  | 1463  | -      | 1481   | -      | 1849  | 1680  | 847   | 1460  | 1378         | -     | 962   | 2135  | -     | 1709  |
| 5                  | 1010  | 1504  | -      | 986  | -      | 1778  | 1647  | 1165  | 1512  | 1464         | -     | 1123  | 2273  | -     | 1731  |
| 6                  | 1515  | 1460  | -      | 865  | -      | 1800  | 1574  | 1808  | 1669  | 1513         | -     | 1017  | 2101  | -     | 1901  |
| 7                  | 1763  | 1390  | -      | 2071   | -      | 1737  | 1567  | 1718  | 1561  | 1497         | -     | 1811  | 1867  | -     | 1559  |
| 8                  | 1150  | 1632  | -      | 2220   | -      | 1705  | 1559  | 1111  | 1525  | 1489         | -     | 1857  | 1735  | -     | 1716  |
| 9                  | 1140  | 1646  | -      | 1628   | -      | 1631  | 1541  | 1606  | 1568  | 1359         | -     | 1489  | 1992  | -     | 1780  |
| 10                 | 1401  | 1643  | -      | 1452   | 1684   | 1646  | 1526  | 968   | 1607  | 1005         | -     | 996   | 2078  | -     | 1808  |
| 11                 | 1501  | 1693  | -      | 1553   | 1217   | 1708  | 1491  | 730   | 1609  | 567          | 2270  | -     | 1938  | 683   | 1807  |
| 12                 | 1658  | 1476  | 1019   | 1822   | 1894   | 1494  | 995   | 1333  | 1567  | 668          | 1816  | 713   | 1129  | 1390  | 1817  |
| 13                 | 1849  | -     | 982    | 2188   | 1609   | 1633  | 1012  | 1377  | 1522  | 454          | 1635  | 588   | 1376  | 1415  | 1545  |
| 14                 | 1822  | -     | 1065   | 907  | 1330   | 1686  | 709   | 881   | 1529  | 573          | 1858  | 932   | 1904  | 455   | 1729  |
| 15                 | 1812  | -     | 998    | 1309   | 1011   | 1711  | 1111  | 856   | 1552  | 1351         | 1052  | 657   | 1143  | 860   | 1624  |
| 16                 | 1494  | -     | 1236   | 1233   | 737    | 1688  | 1271  | 959   | 1597  | 1232         | 1202  | 879   | 1170  | 728   | 1744  |
| 17                 | 1533  | -     | 1185   | 1710   | 1724   | 1636  | 1203  | 1364  | 1524  | 1283         | 1477  | 750   | 1165  | 1391  | 1323  |
| 18                 | -   | -     | 1327   | 2295   | 1794   | 1616  | -   | 1594  | 1471  | 1357         | 1920  | 1264  | -     | 1389  | 1363  |
| 19                 | 966   | -     | 1386   | 1142   | 1869   | 1554  | 1555  | 1195  | 1365  | 1347         | 2182  | 1623  | -     | 1529  | 1492  |
| 20                 | 1675  | -     | 1369   | 827  | 1793   | 1242  | 1748  | 1200  | 1346  | 1436         | 2213  | 1038  | -     | 1469  | 1413  |
| 21                 | 1495  | -     | 1172   | 1090   | 1581   | 1442  | 1749  | 1587  | 1574  | 1517         | 1634  | 1103  | -     | 1778  | 1660  |
| 22                 | 558   | -     | 1223   | 1816   | 1887   | 1680  | 1719  | -     | 1511  | 1297         | 1399  | 1587  | -     | 1674  | 1551  |
| 23                 | 447   | -     | 1203   | 1387   | 1707   | 1722  | 1692  | 1565  | 1597  | 1355         | 1784  | 1451  | -     | 1877  | 1530  |
| 24                 | 1416  | -     | 1150   | 1485   | 1565   | 1618  | 1561  | 1238  | 1391  | 1428         | 977   | 1310  | -     | 1602  | 1362  |
| 25                 | 1355  | -     | 1252   | 1964   | 1621   | 1685  | 1559  | 1603  | 1275  | 1326         | 1996  | 2217  | -     | 1733  | 1688  |
| 26                 | 1629  | -     | 1249   | 2218   | 1498   | 1280  | 1568  | 1152  | 1415  | 1283         | 2247  | 1697  | -     | 1421  | 1685  |
| 27                 | 1669  | 1260  | 1280   | 2413   | 1852   | 773   | 1502  | 1684  | 1529  | 1350         | 1609  | 1596  | -     | 1859  | 1597  |
| 28                 | 1513  | 1431  | 1189   | 1743   | 1860   | -     | -   | 1610  | 1056  | 1557         | -     | 1175  | -     | 1952  | 868   |
| 29                 | 1677  | 1437  | -      | 2215   | 1716   | 1586  | 1342  | 1638  | 1402  | 1370         | 1497  | 773   | -     | 1921  | 1495  |
| 30                 | 1731  | 1407  | 1126   | 1916   | 1670   | 1630  | 1371  | 1740  | 1368  | 1264         | 1938  | 1181  | -     | 1897  | 1573  |
| 31                 | 1125  | -     | 1217   | 2278   | 1655   | -     | 1360  | 1749  | -     | 1277         | 1939  | 1791  | -     | 1846  | -     |
| TG                 | 43635   | -     | 36877) | 51042  | 49704) | 48122 | 45452   | 42364 | 44386 | 39016        | -     | 40257 | -     | -     | 47965 |
| MG                 | 1408  | -     | 1190)  | 1647   | 1603)  | 1604  | 1466  | 1367  | 1480  | 1259         | -     | 1299  | -     | -     | 1599  |
| TS                 | 175.2   | 200.7 | 64.2   | 109.5  | 200.9  | 257.1 | 235.6   | -     | -     | -            | 117.3 | 67.7  | 149.6 | 175.4 | 243.4 |
| MS                 | 5.7   | 6.7   | 2.1    | 3.5  | 6.5    | 8.6   | 7.7   | -     | -     | -            | 3.8   | 2.2   | 5.0   | 5.7   | 8.2   |

## REGION II ASIA / РЕГИОН II АЗИЯ

| COUNTRY<br>СТРАНА  | INDIA<br>ИНДИЯ                                  |       |       | VISHAKHAPATNAM |       |       | GOA / PANJIM |       |       | MADRAS /<br>MINAMBACKAM<br>МАДРАС /<br>МИНАМБАККАМ |       |       |       |       |        |
|--------------------|---|-------|-------|----------------|-------|-------|--------------|-------|-------|--|-------|-------|-------|-------|--------|
| STATION<br>СТАНЦИЯ | CALCUTTA /<br>DUM DUM<br>КАЛЬКУТТА /<br>ДУМ-ДУМ |       |       |                |       |       |              |       |       |  |       |       |       |       |        |
| DATE/ДАТА          | 2012  | 2007  | 2008  | 2009           | 2010  | 2011  | 2012         | 2007  | 2008  | 2010   | 2011  | 2012  | 2007  | 2008  | 2009   |
| 1                  | 1408  | 2080  | 982   | 1988           | -     | 1820  | 1641         | 1690  | 1106  | -  | 1565  | 1616  | 1002  | 1217  | 1256   |
| 2                  | 1603  | 2025  | 2250  | 1588           | -     | 1704  | 1631         | 934   | 1411  | -  | 1630  | 1716  | 944   | 1689  | 1481   |
| 3                  | 1653  | 1238  | 1309  | 2517           | -     | 1711  | 1471         | 769   | 715   | -  | 1779  | 1447  | 1832  | 867   | 2149   |
| 4                  | 1639  | 609   | 1208  | 2670           | -     | 1693  | 1611         | 461   | 487   | -  | 1688  | 1790  | 1395  | 954   | 1765   |
| 5                  | 1685  | 1086  | 870   | 2569           | -     | 1712  | 1742         | 1652  | 387   | -  | 1779  | 1705  | 974   | 1211  | 1908   |
| 6                  | 1705  | 463   | 1222  | 2680           | -     | 1603  | 1755         | 1487  | 917   | -  | 1836  | 1781  | 1215  | 1599  | 1685   |
| 7                  | 1662  | 2078  | 732   | 2528           | -     | 1594  | 1821         | 756   | 1270  | -  | 1871  | 1693  | 2258  | 1734  | 1467   |
| 8                  | 1664  | 1823  | 1795  | 2450           | -     | 1946  | 1806         | 510   | 1678  | -  | 1782  | 1284  | 2151  | 1442  | 1898   |
| 9                  | 1456  | 2223  | 933   | 2652           | -     | 1933  | 1751         | 405   | 1328  | -  | 1811  | 1483  | 2124  | 858   | 1361   |
| 10                 | 1455  | 2525  | 1504  | 2020           | -     | 1958  | 1702         | 1183  | 444   | -  | 1897  | 1336  | 1403  | 1418  | 953    |
| 11                 | 837   | 2202  | 1841  | 2537           | -     | 367   | 1551         | 1550  | 845   | -  | 1892  | 1177  | 1919  | 1336  | 1381   |
| 12                 | 1114  | 1934  | 958   | 2360           | -     | 508   | 1677         | 821   | 1035  | -  | 1933  | 1721  | 2271  | 1160  | 1001   |
| 13                 | 805   | 1954  | 617   | 1929           | -     | 1946  | 1541         | 743   | 1097  | -  | 1892  | 1699  | 1506  | 1159  | 617    |
| 14                 | 489   | 1341  | 344   | 2020           | -     | 1916  | 1630         | 772   | 1848  | -  | 1842  | 1598  | 872   | 986   | 1021   |
| 15                 | 1321  | 870   | 470   | 2219           | -     | 1760  | 1554         | 613   | 475   | -  | 1894  | 1653  | 955   | 909   | 869    |
| 16                 | 1537  | 1636  | 982   | 1982           | -     | 1679  | 1577         | 412   | 280   | -  | 1636  | 1724  | 635   | 1281  | 1134   |
| 17                 | 1507  | 918   | 1508  | 1890           | -     | 1897  | 1586         | 387   | 1230  | -  | 1678  | 1667  | 1532  | 1610  | 1373   |
| 18                 | 1551  | 2753  | 1123  | 2166           | -     | 1849  | 1354         | 506   | 1878  | -  | -     | 1658  | 904   | 1304  | 1066   |
| 19                 | 1538  | 2676  | 1194  | -              | 1927  | 1829  | 1489         | 718   | 1923  | 1908   | 1557  | 1697  | 586   | 1390  | 865    |
| 20                 | 1674  | 1942  | 908   | -              | 2157  | 1456  | 1709         | 1936  | 1275  | 1069   | 1725  | 1658  | 2117  | 1200  | 692    |
| 21                 | 1731  | 2307  | 2072  | -              | 841   | 1757  | 1776         | 2114  | 603   | 1030   | 1826  | 1707  | 2289  | 1838  | 1060   |
| 22                 | 1513  | 1656  | 1343  | -              | 628   | 1732  | 1699         | 1806  | 1664  | 1108   | 1628  | 1800  | 2048  | 1386  | -      |
| 23                 | 1624  | 791   | 1840  | -              | 1547  | 1160  | 1712         | 993   | 1951  | 1669   | 1623  | 1692  | 1792  | 891   | -      |
| 24                 | 1540  | 1074  | 1955  | -              | 1671  | 1074  | 1608         | 1160  | 1519  | 1771   | 1514  | 1588  | 1471  | 1874  | -      |
| 25                 | 1556  | 2575  | 1232  | -              | 1665  | 1095  | 1436         | 1350  | 2007  | 2068   | 1629  | 1608  | 1970  | 1179  | -      |
| 26                 | -   | 2621  | 966   | -              | 1745  | 166   | 1436         | 1764  | 2038  | 1955   | 1567  | 1643  | 1932  | 1492  | -      |
| 27                 | 1419  | 2193  | -     | -              | 1507  | 1027  | 1493         | 1155  | 1658  | 943  | 1540  | 1669  | 1876  | 1910  | -      |
| 28                 | 1555  | 2523  | -     | -              | 1549  | 665   | 1509         | 1454  | 1831  | 1476   | 1741  | 1667  | 1706  | 2121  | -      |
| 29                 | 1525  | 2430  | -     | -              | 1892  | 1822  | 1575         | 1635  | 1467  | 924  | 1622  | 1558  | 447   | 2011  | -      |
| 30                 | 1496  | 2632  | 2320  | -              | 1882  | 1876  | 1477         | 904   | 802   | 1852   | 1728  | 1613  | 2205  | 1865  | -      |
| 31                 | 1413  | 2573  | 2167  | -              | 1532  | -     | 1478         | 588   | 1813  | 1708   | -     | 1633  | 2114  | 1832  | -      |
| TG                 | 45131   | 57751 | 40660 | -              | -     | 45610 | 49798        | 33228 | 38982 | -  | 51833 | 50281 | 48445 | 43723 | 38574) |
| MG                 | 1456  | 1863  | 1312  | -              | -     | 1520  | 1606         | 1072  | 1257  | -  | 1728  | 1622  | 1563  | 1410  | 1286)  |
| TS                 | 237.1   | 172.7 | 89.4  | 193.0          | 151.7 | 209.5 | 257.7        | 239.7 | 74.3  | 154.6  | 270.6 | 272.7 | 162.6 | 109.9 | 119.4  |
| MS                 | 7.7   | 5.6   | 2.9   | 6.5            | 4.9   | 7.0   | 8.4          | 7.8   | 2.4   | 5.0  | 9.1   | 8.8   | 5.3   | 3.6   | 4.0    |



## REGION II ASIA / РЕГИОН II АЗИЯ

| COUNTRY<br>СТРАНА<br>STATION | REPUBLIC OF KOREA<br>РЕСПУБЛИКА КОРЕЯ<br>АНМУЕОН-ДО |        | RUSSIA<br>РОССИЯ<br>ОЙМЯКОН |                   | EKATERIN-<br>BURG<br>ЕКАТЕРИН-<br>БУРГ | OMSK<br>ОМСК | SAMARA<br>САМАРА | IRKUTSK<br>ИРКУТСК |       |       |
|------------------------------|---|--------|-----------------------------|-------------------|--|--------------|------------------|--------------------|-------|-------|
| СТАНЦИЯ                      | АНМУЕОН   |        | ОЙМЯКОН                     | ЕКАТЕРИН-<br>БУРГ | ОМСК                                   | САМАРА       | ИРКУТСК          |                    |       |       |
| DATE/ДАТА                    | 2005  | 2006   | 2007                        | 2008              | 2009                                   | 2008*        | 2007*            | 2007*              | 2005* | 2008* |
| 1                            | 972   | 2244   | 1630                        | 705               | 1418                                   | 1939         | 1413             | 2157               | 2260  | 1261  |
| 2                            | 1194  | 649    | 2319                        | 593               | 534                                    | 2445         | 2364             | 2526               | 2122  | 305   |
| 3                            | -   | 1398   | 1072                        | 282               | 2145                                   | 1894         | 1902             | 2809               | 2602  | 509   |
| 4                            | 2541  | 1190   | 2024                        | 1494              | 2355                                   | 1299         | 2629             | 2615               | 2615  | 1540  |
| 5                            | 615   | 1824   | 2585                        | 1846              | 1195                                   | 1871         | 738              | 2476               | 2562  | 2315  |
| 6                            | 2877  | 2359   | 2353                        | 608               | 573                                    | 1750         | 2012             | 2413               | 1036  | 444   |
| 7                            | 2793  | 2448   | 2344                        | 430               | 294                                    | 1523         | 2577             | 2206               | 1570  | 1230  |
| 8                            | 1934  | 2785   | 2653                        | 322               | -                                      | 1543         | 2513             | 2688               | 2606  | 558   |
| 9                            | 411   | -      | 2617                        | 349               | 1779                                   | 1283         | 2456             | 2677               | 2304  | 1816  |
| 10                           | -   | 2110   | 1852                        | 1157              | -                                      | 1325         | 2411             | 2659               | 1798  | 1236  |
| 11                           | -   | 2447   | 2042                        | 669               | -                                      | 655          | 2252             | 2649               | 1931  | 1932  |
| 12                           | 2627  | 826    | 467                         | 976               | 540                                    | 953          | 2643             | 2603               | 1954  | 2410  |
| 13                           | -   | 2586   | 411                         | -                 | 2290                                   | 1363         | 2596             | 2779               | 1298  | 2283  |
| 14                           | 1918  | -      | 939                         | 1484              | 2070                                   | 769          | 2544             | 2781               | 2311  | 1375  |
| 15                           | 375   | -      | 2262                        | 1547              | 1982                                   | 1976         | 2481             | 2800               | 805   | 937   |
| 16                           | 895   | 2807   | 2565                        | 2255              | 611                                    | 2082         | 2262             | 2676               | 2081  | 1867  |
| 17                           | 2068  | 1615   | 2735                        | 2155              | 713                                    | 1459         | 2546             | 2595               | 2223  | 2360  |
| 18                           | 1127  | 936    | 1464                        | 2550              | 2081                                   | 858          | 1760             | 2574               | 2397  | 2245  |
| 19                           | 1640  | 2450   | 857                         | 2488              | 1792                                   | 1395         | 1370             | 2427               | 1448  | 2383  |
| 20                           | 2281  | -      | 1089                        | 2401              | 2136                                   | 1124         | 1243             | 1843               | 1215  | 1250  |
| 21                           | 2380  | -      | 2419                        | 2284              | 1975                                   | 939          | 1247             | 1232               | 2695  | 823   |
| 22                           | 2047  | 2910   | 954                         | 1076              | 2012                                   | 1036         | 2067             | 2495               | 2628  | 1190  |
| 23                           | 2833  | 1815   | 132                         | 2500              | 1604                                   | 1055         | 1639             | 2142               | 1438  | 223   |
| 24                           | 996   | 613    | 1445                        | 2471              | 1941                                   | 1500         | 2538             | 1368               | 1943  | 1845  |
| 25                           | 1219  | 768    | 1995                        | 2478              | 1891                                   | 757          | 1685             | 1175               | 2499  | 893   |
| 26                           | 2205  | 2470   | 1459                        | 1566              | 2041                                   | 960          | 1479             | 1929               | 2607  | 851   |
| 27                           | 2987  | 1625   | 1005                        | 1518              | 2093                                   | 1257         | 1919             | 1635               | 2796  | 613   |
| 28                           | 2853  | 2177   | 782                         | 1806              | 2038                                   | 1107         | 1616             | 2311               | 2883  | 362   |
| 29                           | 2716  | 632    | 1059                        | 893               | 1536                                   | 1395         | 1503             | 2285               | 2871  | 1206  |
| 30                           | 2585  | 614    | 877                         | 1773              | 1556                                   | 1201         | 651              | 2064               | 2788  | 527   |
| 31                           | 1743  | -      | 784                         | 1581              | -                                      | 399          | 1692             | 1972               | 2482  | 1378  |
| TG                           | 58363   | 53158) | 49191                       | 45732             | 47994                                  | 41112        | 60748            | 71561              | 66768 | 40167 |
| MG                           | 1883  | 1772)  | 1587                        | 1475              | 1600                                   | 1326         | 1960             | 2308               | 2154  | 1296  |
| TS                           | -   | -      | -                           | -                 | -                                      | 207.1        | 326.9            | 377.0              | 316.2 | 175.2 |
| MS                           | -   | -      | -                           | -                 | -                                      | 6.7          | 10.5             | 12.2               | 10.2  | 5.7   |

## REGION III SOUTH AMERICA / РЕГИОН III ЮЖНАЯ АМЕРИКА

| COUNTRY<br>СТРАНА<br>STATION | CHILE<br>ЧИЛИ<br>EL TOLOLO |       | RUSSIA<br>РОССИЯ<br>ОЙМЯКОН |                   | EKATERIN-<br>BURG<br>ЕКАТЕРИН-<br>БУРГ | OMSK<br>ОМСК | SAMARA<br>САМАРА | IRKUTSK<br>ИРКУТСК |       |       |       |        |        |       |       |
|------------------------------|----------------------------|-------|-----------------------------|-------------------|--|--------------|------------------|--------------------|-------|-------|-------|--------|--------|-------|-------|
| СТАНЦИЯ                      | ЭЛЬ-ТОЛОЛО                 |       | ОЙМЯКОН                     | ЕКАТЕРИН-<br>БУРГ | ОМСК                                   | САМАРА       | ИРКУТСК          |                    |       |       |       |        |        |       |       |
| DATE/ДАТА                    | 1801                       | 1802  | 1803                        | 1804              | 1805                                   | 1806         | 1807             | 1808               | 1809  | 1810  | 1811  | 1812   | 1901   | 1902  | 1903  |
| 1                            | 3038                       | 3227  | 2900                        | 2355              | 1038                                   | 1513         | 1514             | 1730               | 2211  | 2739  | 3155  | 3506   | 3559   | 3193  | 2892  |
| 2                            | 3488                       | 3185  | 2887                        | 2312              | 1821                                   | 1497         | 1265             | 1734               | 2240  | 2728  | 2790  | 3500   | 3483   | 3191  | 2882  |
| 3                            | 3477                       | 3196  | 2884                        | 2307              | 1789                                   | 1459         | 1222             | 1359               | 2295  | 2516  | 3223  | 3556   | 3511   | 3219  | 2711  |
| 4                            | 3484                       | 3161  | 2897                        | 2266              | 1788                                   | 1485         | 428              | 1741               | 2337  | 2010  | 3284  | 3292   | 3507   | 3302  | 2882  |
| 5                            | 3480                       | 3103  | 2847                        | 2253              | 1781                                   | 1257         | 1222             | 1716               | 2338  | 2831  | 3287  | 3538   | 3465   | 3305  | 2894  |
| 6                            | 3494                       | 3129  | 2802                        | 2265              | 1736                                   | 822          | 1424             | 1480               | 2341  | 2837  | 3299  | 3553   | 3382   | 3234  | 2862  |
| 7                            | 3459                       | 3217  | 2739                        | 2261              | 1744                                   | 1443         | 1477             | 1735               | 2342  | 2752  | 3313  | 3537   | 3505   | 2941  | 2841  |
| 8                            | 3467                       | 3046  | 2742                        | 2257              | 1732                                   | 1415         | 1484             | 1817               | 2366  | 809   | 3286  | 3590   | 3532   | 3186  | 2827  |
| 9                            | 3435                       | 3089  | 2779                        | 2213              | -                                      | 1089         | 1492             | 1808               | 2380  | 1023  | 3338  | 3608   | 3515   | 3188  | 2809  |
| 10                           | 3409                       | 3209  | 2793                        | 882               | 1680                                   | 285          | 1513             | 1773               | 2393  | 1479  | 3349  | 3546   | 3483   | 3098  | 2855  |
| 11                           | 3349                       | 3181  | 2838                        | 2024              | 1703                                   | 834          | 1499             | 1841               | 2375  | 1169  | 3372  | 3597   | 3431   | 2806  | 2785  |
| 12                           | 2746                       | 3185  | 2772                        | 2126              | 1681                                   | 1453         | 1491             | 1842               | 1570  | 2969  | 1990  | 3444   | 3457   | 3142  | 2788  |
| 13                           | 3166                       | 3125  | 2706                        | 2152              | 1204                                   | 1446         | 1498             | 1873               | 2428  | 2940  | 3467  | 3578   | 3470   | 3247  | 2727  |
| 14                           | 3415                       | 3075  | 2731                        | 2179              | 1691                                   | 1429         | 1523             | 1909               | 2439  | 3004  | 3405  | 3601   | 3385   | 3219  | 2641  |
| 15                           | 3497                       | 3093  | 2727                        | 2118              | 1434                                   | 1340         | 1535             | 1894               | 2535  | 3000  | 3316  | 3540   | 3470   | 3160  | 2700  |
| 16                           | 3468                       | 3146  | 2689                        | 2074              | 1622                                   | 1362         | 1324             | 1942               | 2500  | 3002  | 3366  | 3587   | 3443   | 3133  | 2640  |
| 17                           | 3459                       | 3075  | 2683                        | 2004              | 1580                                   | 1417         | 648              | 1915               | 2468  | 3052  | 3407  | 3507   | 3519   | 3109  | 2707  |
| 18                           | 3446                       | 3086  | 2701                        | 1987              | 1641                                   | 1425         | 1003             | 1078               | 2253  | 3090  | 3431  | 3279   | 3482   | 3112  | 2672  |
| 19                           | 3452                       | 3115  | 2694                        | 2031              | 1598                                   | 1428         | 1156             | 2035               | 2150  | 3080  | 3412  | 3607   | 3434   | 3073  | 2629  |
| 20                           | 3405                       | 3013  | 2670                        | 1997              | 1484                                   | 1344         | 1591             | 2079               | 2414  | 3097  | 3416  | 3572   | 3324   | 3072  | 2609  |
| 21                           | 3440                       | 3039  | 2619                        | 1997              | 1561                                   | 1414         | 1583             | 1973               | 2634  | 3108  | 3415  | 3541   | 3412   | 3037  | 2576  |
| 22                           | 3434                       | 2988  | 2589                        | 1960              | 1579                                   | 1440         | 1483             | 1770               | 2633  | 3086  | 3415  | 3562   | 3387   | 3016  | 2545  |
| 23                           | 3374                       | 3042  | 2574                        | 1846              | 1591                                   | 1411         | 1566             | 1749               | 2609  | 3119  | 3417  | 3588   | 3387   | 2975  | 2501  |
| 24                           | 3383                       | 3014  | 2544                        | 1765              | 1604                                   | 1207         | 1473             | 2078               | 2573  | 3070  | 3398  | 3545   | 3158   | 2991  | 2523  |
| 25                           | 3375                       | 3014  | 2521                        | 1870              | 1535                                   | 1399         | 1634             | 2072               | 2531  | 2807  | 3425  | 3593   | 3292   | 2975  | 2506  |
| 26                           | 3475                       | 2982  | 2156                        | 1844              | 1507                                   | 1395         | 1594             | 2103               | 1545  | 3118  | 3390  | 3566   | 3312   | 2934  | -     |
| 27                           | 3276                       | 2941  | 2466                        | 1841              | 1504                                   | 1390         | 406              | 2128               | 2316  | 2840  | 3402  | 3581   | 3249   | 2937  | 2460  |
| 28                           | 3336                       | 2844  | 2417                        | 1603              | 844                                    | 1428         | 1682             | 2142               | 1864  | 2790  | 3448  | 3568   | 3309   | 2883  | 2238  |
| 29                           | 3279                       | -     | 2378                        | 1876              | 643                                    | 1405         | 1704             | 2180               | 1207  | 844   | 3460  | 3578   | 3282   | -     | 2452  |
| 30                           | 3293                       | -     | 2381                        | 1724              | 530                                    | 1359         | 1726             | 1621               | 2094  | 1760  | 3497  | 3582   | 3279   | -     | 1150  |
| 31                           | 3288                       | -     | 2354                        | -                 | 1344                                   | -            | 1300             | 1092               | -     | 3114  | -     | -      | 3175   | -     | 2387  |
| TG                           | 104587                     | 86520 | 82480                       | 60389             | 46489                                  | 39591        | 42460            | 56209              | 68381 | 79783 | 99173 | 109783 | 105599 | 86678 | 81314 |
| MG                           | 3374                       | 3090  | 2661                        | 2013              | 1500                                   | 1320         | 1370             | 1813               | 2279  | 2574  | 3306  | 3541   | 3406   | 3096  | 2623  |
| TS                           | -                          | -     | -                           | -                 | -                                      | -            | -                | -                  | -     | -     | -     | -      | -      | -     | -     |
| MS                           | -                          | -     | -                           | -                 | -                                      | -            | -                | -                  | -     | -     | -     | -      | -      | -     | -     |

\*) Corrected data  
Исправленные данные

## REGION III SOUTH AMERICA / РЕГИОН III ЮЖНАЯ АМЕРИКА

COUNTRY CHILE  
СТРАНА ЧИЛИ  
STATION EL TOLOLO

СТАНЦИЯ ЭЛЬ-ТОЛОЛО

| DATE/ДАТА | 1904  | 1905  | 1906  | 1907  | 1908  | 1909  | 1910  | 1911  | 1912   |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 1         | 2343  | 1800  | 1531  | 1463  | 1738  | 2214  | 1084  | 2793  | 3490   |
| 2         | 2373  | 1713  | 1462  | 1368  | 1769  | 2232  | 2686  | 2774  | 3474   |
| 3         | 2312  | 1825  | 1445  | 1434  | 1759  | 2163  | 1327  | 2943  | 3290   |
| 4         | 2288  | 1814  | 1336  | 1437  | 1779  | 2282  | 2800  | 3267  | 3476   |
| 5         | 2279  | 1723  | 1428  | -     | 1810  | 704   | 2838  | -     | 3547   |
| 6         | 2268  | 936   | 1419  | -     | 1796  | 1206  | 2826  | 3320  | 3487   |
| 7         | 2249  | 1454  | 1511  | 579   | 1830  | 2141  | -     | 3319  | 3532   |
| 8         | 2234  | 1433  | 1478  | 1140  | 1861  | 2101  | 2891  | 3261  | 3553   |
| 9         | 2233  | 1765  | 1480  | 1117  | 1870  | 1445  | 2817  | -     | 3553   |
| 10        | 2268  | 1302  | 1260  | 1166  | 1846  | 2365  | 2626  | 3321  | 3564   |
| 11        | 2232  | 1729  | 1382  | 950   | 1668  | 2443  | -     | 3249  | 3548   |
| 12        | 2196  | 1704  | 1475  | 1151  | 1900  | 2460  | 2627  | 3331  | 3526   |
| 13        | 2171  | 1683  | 1412  | 1353  | 1795  | 2476  | 2129  | 3317  | 3501   |
| 14        | 2157  | 1682  | 1485  | 1539  | 1904  | 2506  | 1250  | 3309  | 3086   |
| 15        | 2158  | 1658  | 1348  | -     | 1867  | 2520  | 2230  | 3350  | 3465   |
| 16        | 2117  | 1590  | 1471  | 1530  | 1966  | 2539  | 2713  | 3394  | 3506   |
| 17        | 2128  | 1174  | 893   | 1482  | 2003  | 2198  | -     | 3333  | 3523   |
| 18        | 1973  | 1634  | 1454  | 1528  | 1823  | 2573  | 3056  | 3413  | 3512   |
| 19        | 1632  | 1092  | 1361  | 1541  | 1892  | 2490  | 2963  | 3351  | 3521   |
| 20        | 1940  | 1504  | 1300  | 1507  | 1955  | 2598  | 3105  | 3314  | 3569   |
| 21        | 2069  | 1662  | 1363  | 324   | 1976  | 2631  | 3062  | 3229  | 3548   |
| 22        | 2039  | 1596  | 1401  | 1530  | 2045  | 2614  | 1877  | -     | 3568   |
| 23        | 1691  | 1616  | -     | 1167  | 2050  | 2645  | 2757  | 3490  | 3534   |
| 24        | 260   | 1303  | 231   | 1623  | 1755  | 2691  | 3152  | 3363  | 3545   |
| 25        | 1735  | 650   | -     | 1629  | 1997  | 2636  | 3159  | 3399  | 3510   |
| 26        | 1883  | 1378  | 1412  | 1234  | 2059  | 2654  | 3176  | 3492  | 3519   |
| 27        | 1903  | 921   | 1245  | 1680  | 2099  | 2736  | 3149  | 3549  | 3583   |
| 28        | 1895  | 765   | 1370  | 1638  | 2115  | 2725  | 2632  | 3523  | 2986   |
| 29        | 1774  | 541   | 1354  | 1645  | 2117  | 2743  | 3201  | 3508  | 3274   |
| 30        | 1844  | 973   | 1421  | 1636  | 2125  | 2723  | 2996  | 3406  | 3535   |
| 31        |       | 375   |       | 1620  | 2176  |       | 3182  |       | 3475   |
| TG        | 60644 | 42995 | 40423 | 42084 | 59345 | 70454 | 82273 | 99242 | 107800 |
| MG        | 2021  | 1387  | 1347  | 1358  | 1914  | 2348  | 2654  | 3308  | 3477   |
| TS        | -     | -     | -     | -     | -     | -     | -     | -     | -      |
| MS        | -     | -     | -     | -     | -     | -     | -     | -     | -      |

## REGION IV NORTH AND CENTRAL AMERICA / РЕГИОН IV СЕВЕРНАЯ И ЦЕНТРАЛЬНАЯ АМЕРИКА

COUNTRY MEXICO  
СТРАНА МЕКСИКА  
STATION CIUDAD UNIV.

СТАНЦИЯ СЬЮДАД, УН-Т

SAINT-PIERRE AND MIQUELON  
СЕН-ПЬЕР И МИКЕЛОН  
СТ-ПЬЕР

СЕН-ПЬЕР

| DATE/ДАТА | 1801  | 1802  | 1803  | 1804  | 1805  | 1806  | 1807  | 1808  | 1809  | 1810  | 1811  | 1812  | 2007  | 2008  | 2009  |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1         | 1510  | 1705  | 2069  | 2844  | 2014  | 3251  | 2900  | 2456  | 2264  | 1879  | 1350  | 2182  | 1053  | 1933  | -r    |
| 2         | 1665  | 2067  | 2127  | 2353  | 1650  | 3034  | 2317  | 1905  | 2370  | 1839  | 1085  | 2245  | 2657  | 3136m | -r    |
| 3         | 1574  | 1837  | 2428  | 2109  | 2202  | 2244  | 2195  | 1516  | 2613  | 1322  | 1641  | 1999  | 2770  | -r    | -r    |
| 4         | 1595  | 1874  | 2486  | 2307  | 2277  | 3218  | 2154  | 880   | 2227  | 1788  | 662   | 1609  | 2953  | 2585  | 1491  |
| 5         | 1646  | 1979  | 2127  | 2005  | 2008  | 3127  | 2588  | 2175  | 1672  | 2429  | 2179  | 845   | -     | 2947m | 1400  |
| 6         | 1753  | 1986  | 1789  | 1766  | 1632  | 2652  | 1404  | 1856  | 1875  | 1923  | 2259  | 1765  | -r    | 2597  | -r    |
| 7         | 1893  | 1740  | 1641  | 2666  | 1005  | 2932  | 2641  | 2575  | 1938  | 1339  | 2055  | 2010  | 3195m | -r    | -r    |
| 8         | 1863  | 1579  | 1986  | 2577  | 979   | 2472  | 1804  | 2404  | 2028  | 1535  | 2253  | 1988  | -     | -r    | 1702  |
| 9         | 1967  | 1168  | 1916  | 2235  | 3066  | 1910  | 2184  | 1782  | 2594  | 2005  | 2083  | 1887  | 1231  | -r    | -r    |
| 10        | 1864  | 1524  | 2262  | 2210  | 2579  | 3070  | 2238  | 2394  | 2236  | 1489  | 2031  | 1179  | 2541  | 3056m | 1649  |
| 11        | 1732  | 1651  | 2544  | 1984  | 2744  | 2051  | 2283  | 1911  | 1449  | 1658  | 1857  | 1402  | 2979  | 2109  | 671   |
| 12        | 1872  | 1603  | 2052  | 2343  | 2708  | 980   | 2107  | 1118  | 1807  | 1799  | 1771  | 1521  | 1309  | 2954m | -r    |
| 13        | 1962  | 1918  | 2229  | 2556  | 2845  | 1156  | 2205  | 2202  | 1447  | 1740  | 1295  | 1600  | 3353m | 2234  | 2141  |
| 14        | 1966  | 2092  | 2025  | 2922  | 3074  | 1055  | 2336  | 2560  | 2123  | 2241  | 286   | 1908  | 3227m | -r    | 1131  |
| 15        | 1941  | 2251  | 1809  | 2334  | 3249  | 1277  | 2439  | 1686  | 1855  | 1905  | 1915  | 1793  | 720   | -r    | -r    |
| 16        | 1856  | 2311  | 1958  | 2320  | 2948  | 1800  | 2389  | 2721  | 1286  | 1878  | 2207  | 2015  | -     | -r    | -r    |
| 17        | 1756  | 2278  | 2075  | 2696  | 3083  | 1920  | 2335  | 2661  | 1528  | 626   | 2265  | 1535  | -     | 2515  | -r    |
| 18        | 1566  | 2250  | 2177  | 2766  | 3116  | 1189  | 2829  | 2251  | 1708  | 972   | 1796  | 1849  | 2891  | 942   | 310   |
| 19        | 1762  | 1742  | 2383  | 2965  | 2548  | 2005  | 2562  | 2796  | 1958  | 1368  | 2253  | 2144  | -     | -r    | -r    |
| 20        | 1846  | 1768  | 2376  | 3127  | 2914  | 2012  | 2100  | 2220  | 2300  | 1276  | 2121  | 2217  | 1945  | 2648m | -r    |
| 21        | 2006  | 1696  | 2193  | 2660  | 1975  | 1441  | 2893  | 1487  | 2460  | 610   | 2051  | 2115  | -r    | -r    | -r    |
| 22        | 1869  | 1781  | 2391  | 2633  | 2737  | 2396  | 2468  | 1983  | 2171  | 2393  | 2058  | 2085  | -     | -r    | 614   |
| 23        | 1794  | 1916  | 2667  | 2186  | 2862  | 2124  | 2803  | 2185  | 1995  | 2541  | 1965  | 2041  | 2023  | -r    | -r    |
| 24        | 1424  | 1983  | 2847  | 1608  | 3106  | 2009  | 2660  | 1893  | 2323  | 2296  | 1900  | 1988  | 1605  | -r    | -r    |
| 25        | 1412  | 1980  | 2859  | 1771  | 3194  | 1814  | 2819  | 2316  | 2095  | 2308  | 2164  | 1634  | -r    | -r    | -r    |
| 26        | 1570  | 1922  | 2257  | 2211  | 3332  | 1914  | 2350  | 2249  | 1953  | 2032  | 1457  | 1575  | 691   | 1914  | -r    |
| 27        | 1459  | 2104  | 2436  | 2384  | 3394  | 2374  | 2306  | 1833  | 1955  | 950   | 1899  | 1818  | -r    | -r    | 1317  |
| 28        | 560   | 2251  | 2718  | 2315  | 3296  | 2418  | 2356  | 1574  | 1623  | 1584  | 535   | 1563  | 2247  | 2641m | 995   |
| 29        | 262   |       | 2571  | 2520  | 3272  | 2461  | 2962  | 1597  | 1710  | 1438  | 1715  | 2037  | 899   | -r    | 952   |
| 30        | 1314  |       | 1524  | 1492  | 3206  | 2605  | 2437  | 2093  | 2224  | 1770  | 1410  | 2093  | 2105  | 536   | 842   |
| 31        | 1480  |       | 2228  |       | 3336  |       | 2348  | 2111  |       | 1472  |       | 1885  | 1042  | -r    |       |
| TG        | 50739 | 52956 | 69150 | 70865 | 82351 | 64911 | 74412 | 63390 | 59787 | 52405 | 52518 | 56527 | -     | -     | -     |
| MG        | 1637  | 1891  | 2231  | 2362  | 2656  | 2164  | 2400  | 2045  | 1993  | 1690  | 1751  | 1823  | -     | -     | -     |
| TS        | 233.4 | 217.4 | 271.7 | 230.4 | 266.0 | 174.7 | 220.8 | 168.6 | 154.8 | 153.9 | 198.4 | 255.4 | 113.1 | 166.2 | 150.7 |
| MS        | 7.5   | 7.8   | 8.8   | 7.7   | 8.6   | 5.8   | 7.1   | 5.4   | 5.2   | 5.0   | 6.6   | 8.2   | 3.6   | 5.4   | 5.0   |

## REGION IV NORTH AND CENTRAL AMERICA / РЕГИОН IV СЕВЕРНАЯ И ЦЕНТРАЛЬНАЯ АМЕРИКА

COUNTRY TRINIDAD AND TOBAGO  
СТРАНА ТРИНИДАД И ТОБАГО  
STATION Piarco Int. Arpt,  
TRINIDAD  
СТАНЦИЯ ПЬЯРКО, МЕЖД. АЭР.  
(ТРИНИДАД)

USA  
США  
SOLAR RADIATION  
RESEARCH LAB.  
ИССЛ. ЛАБОРАТОРИЯ  
ПО СОЛН. РАДИАЦИИ

| DATE/ДАТА | 1903* | 1907  | 1908  | 1909  | 1910  | 1911   | 1912  | 2001  | 2002  | 2003  | 2005* | 2006* | 2007* | 2008* | 2009* |
|-----------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1         | 2474  | 1716  | 2179  | 2291  | 2413  | -      | 1786  | 2054  | 1954  | 2488  | 2397  | 2407  | 3235  | 2233  | 2502  |
| 2         | 2034  | 2355  | 2215  | 2782q | 2264  | -      | 1677  | 2121  | 2149  | 2231  | 1013  | 2707  | 2586  | 2203  | 2567  |
| 3         | 1155  | 2550  | 1632  | 1036  | 1696  | -      | 1807  | 1620  | 2131  | 2133  | 2756  | 2556  | 2043  | 2325  | 2453  |
| 4         | 2027  | 2196  | 1430  | 1429  | 2245  | -      | 1816  | 2255  | 1954  | 2305  | 3001  | 2045  | 1912  | 2402  | 2470  |
| 5         | 1886  | 1366  | 1796  | 2440  | 1769  | 1749   | 1970  | 1610  | 2103  | 2131  | 2955  | 2297  | 2574  | 2129  | 2446  |
| 6         | 2306  | 2265  | 1788  | 2142  | 2210  | 1370   | 1455  | 1515  | 2195  | 2603  | 2621  | 1176  | 2485  | 1478  | 2006  |
| 7         | 2131  | 2541  | 1659  | 1768  | 2285  | 1843   | 2033  | 2260  | 2050  | 2487  | 3056  | 3180  | 2100  | 2680  | 2008  |
| 8         | 1768  | 1903  | 2343  | 2576  | 571   | 1302   | 2138  | 2226  | 2106  | 2632  | 2428  | 2921  | 2691  | 2303  | 384   |
| 9         | 2495  | 1591  | 2519  | 2214  | 1244  | 1501   | 2168  | 1578  | 2177  | 2020  | 2387  | 2380  | 3033  | 2697  | 644   |
| 10        | 2323  | 2440  | 2267  | 2222  | 959   | 1627   | 1125  | 1904  | 2253  | 2520  | 2965  | 3014  | 3113  | 2169  | 880   |
| 11        | 1937  | 1970  | 2361  | 2318  | 2116  | 2327q  | 359   | 2068  | 2321  | 2387  | 1070  | 2870  | 3089  | 1847  | 2028  |
| 12        | 1961  | 1729  | 866   | 2410  | 2377  | 2339q  | 1234  | 2120  | 1901  | 2612  | 2136  | 3009  | 2247  | 1809  | 2397  |
| 13        | 1950  | 1901  | 2511  | 2352  | 2292  | 2324q  | 1456  | 1807  | 1834  | 2557  | 2203  | 2027  | 1787  | 2574  | 2382  |
| 14        | 2093  | 2002  | 1239  | 2428  | 945   | 1635   | 1890  | 1617  | 732   | 1197  | 2281  | 3156  | 2090  | 2534  | 2257  |
| 15        | 1394  | 2356  | 701   | 2062  | 1750  | 1546   | 767   | 898   | 1782  | 961   | 1297  | 3024  | 1819  | 2380  | 2099  |
| 16        | 2314  | 2633  | 2632  | 1393  | 2105  | 1590   | 1674  | 1572  | 1955  | 1283  | 2590  | 2758  | 1599  | 2555  | 1840  |
| 17        | 2331  | 1206  | 1474  | 279   | 1324  | 1624   | 1846  | 1141  | 1463  | 1825  | 2905  | 2839  | 2319  | 2559  | 1941  |
| 18        | 2520  | 2402  | 2489  | 1366  | 1365  | 1673   | 1429  | 2260  | 1510  | 2187  | 3052  | 2257  | 1944  | 2053  | 1701  |
| 19        | 2641  | 2372  | 2571  | 1886  | 989   | 1185   | 1401  | 1398  | 2078  | 1995  | 2710  | 1300  | 1821  | 2097  | 1408  |
| 20        | 2219  | 2452  | 2234  | 2536  | 1510  | 1542   | 1851  | 1674  | 2142  | 2055  | 3194  | 3030  | 2926  | 1846  | 1183  |
| 21        | 2564  | 1844  | 1933  | 1405  | -     | 1668   | 1614  | 1785  | 2506  | 1884  | 2425  | 1029  | 2331  | 2216  | 1889  |
| 22        | 2461  | 2526  | 2598  | 474   | -     | 1562   | 1643  | 1960  | 2201  | 2335  | 3058  | 3135  | 2238  | 2257  | 1491  |
| 23        | 2441  | 2092  | 2534  | 1840  | -     | 1737   | 1599  | 2266  | 1856  | 2288  | 2266  | 2911  | 2335  | 1721  | 1807  |
| 24        | 2716q | 2558  | 1666  | 1855  | -     | 1822   | 1578  | 1712  | 1663  | 2499  | 686   | 2797  | 2035  | 1960  | 1958  |
| 25        | 2596  | 2639  | 2584  | 2015  | -     | 1208   | 1755  | 1665  | 2310  | 2419  | 2569  | 1935  | 1370  | 1880  | 1837  |
| 26        | 2544  | 2561  | 1589  | 2572  | -     | 582    | 1990  | 2150  | 2307  | 2425  | 3099  | 1413  | 1662  | 1748  | 1478  |
| 27        | 1292  | 758   | 1929  | 2299  | -     | 1225   | 2072  | 2222  | 2399  | 2595  | 2537  | 2683  | 2821  | 2261  | 879   |
| 28        | 1987  | 1213  | 2511  | 2502  | -     | 2097   | 2016  | 1876  | 2259  | 1500  | 2653  | 1993  | 1618  | 1186  | 2078  |
| 29        | 2155  | 1522  | 2255  | 2080  | -     | 1391   | 2102  | 2077  | 2337  | 2404  | 2696  | 2381  | 2932  | 1346  | 2061  |
| 30        | 1854  | 2459  | 2638  | 1307  | -     | 1106   | 1950  | 2138  | -     | 1575  | 2207  | 2663  | 2555  | 2016  | 1944  |
| 31        | 2485  | 2523  | 2051  | -     | -     | -      | 2181  | 1994  | -     | 2513  | 2054  | -     | 2336  | 1746  | -     |
| TG        | 67054 | 64641 | 63194 | 58279 | -     | 47971) | 52382 | 57543 | 58628 | 67046 | 75267 | 73893 | 71646 | 65210 | 55018 |
| MG        | 2163  | 2085  | 2039  | 1943  | -     | 1599)  | 1690  | 1856  | 2022  | 2163  | 2428  | 2463  | 2311  | 2104  | 1834  |
| TS        | 271.0 | 260.8 | 262.8 | 241.5 | 228.7 | 191.8  | 243.7 | 258.3 | 253.3 | 274.8 | -     | -     | -     | -     | -     |
| MS        | 8.7   | 8.4   | 8.5   | 8.1   | 7.4   | 6.4    | 7.9   | 8.3   | 8.7   | 8.9   | -     | -     | -     | -     | -     |

## REGION IV NORTH AND CENTRAL AMERICA / РЕГИОН IV СЕВЕРНАЯ И ЦЕНТРАЛЬНАЯ АМЕРИКА

COUNTRY USA  
СТРАНА США  
STATION SOLAR RADIATION  
RESEARCH LAB.  
СТАНЦИЯ ИССЛ. ЛАБОРАТОРИЯ  
ПО СОЛН. РАДИАЦИИ

| DATE/ДАТА | 2010* | 2011* | 2012* |
|-----------|-------|-------|-------|
| 1         | 1889  | 1472  | 430   |
| 2         | 1437  | 1457  | 871   |
| 3         | 1767  | 1223  | 1101  |
| 4         | 1937  | 1365  | 1071  |
| 5         | 1902  | 1383  | 1065  |
| 6         | 1893  | 973   | 1076  |
| 7         | 1811  | 785   | 1079  |
| 8         | 1775  | 1367  | 1061  |
| 9         | 1629  | 204   | 1085  |
| 10        | 1677  | 1346  | 503   |
| 11        | 1694  | 1332  | 377   |
| 12        | 1840  | 1296  | 492   |
| 13        | 1720  | 1303  | 1058  |
| 14        | 1595  | 893   | 679   |
| 15        | 1618  | 1271  | 901   |
| 16        | 1599  | 1198  | 975   |
| 17        | 1040  | 1253  | 745   |
| 18        | 763   | 731   | 309   |
| 19        | 1100  | 1179  | 696   |
| 20        | 837   | 1035  | 410   |
| 21        | 1461  | 953   | 591   |
| 22        | 197   | 1172  | 989   |
| 23        | 576   | 1041  | 795   |
| 24        | 1326  | 710   | 1012  |
| 25        | 540   | 1175  | 1035  |
| 26        | 1251  | 1150  | 1010  |
| 27        | 1638  | 1144  | 985   |
| 28        | 1513  | 1137  | 217   |
| 29        | 1507  | 1076  | 838   |
| 30        | 1507  | 1138  | 1064  |
| 31        | 1451  | -     | 965   |
| TG        | 44490 | 33762 | 25485 |
| MG        | 1435  | 1125  | 822   |
| TS        | -     | -     | -     |
| MS        | -     | -     | -     |

\*) Corrected data  
Исправленные данные







## REGION VI EUROPE / РЕГИОН VI ЕВРОПА

| COUNTRY<br>СТРАНА | AZORES<br>АЗОРСКИЕ О-ВА<br>ANGRA DO<br>HEROISMO OBS.<br>АНГРА-ДУ-<br>ЭРОИЖМУ, ОБС. |       |       |       |       |       | GERMANY<br>ГЕРМАНИЯ<br>HAMBURG -<br>FUHLSBUETTTEL<br>ГАМБУРГ -<br>ФЮЛСБЮТТЕЛ |       |       | BRAUNSCHWEIG<br>БРАВУШВАЙГ |       |       | LINDENBERG<br>ЛИДЕНБЕРГ |       |       |
|-------------------|--|-------|-------|-------|-------|-------|--|-------|-------|----------------------------|-------|-------|-------------------------|-------|-------|
| СТАНЦИЯ           | PICO ARPT<br>ПИКО, АЭР.  |       |       |       |       |       |  |       |       |                            |       |       |                         |       |       |
| DATE/ДАТА         | 2001   | 2002  | 2003  | 2001  | 2002  | 2003  | 2001   | 2002  | 2003  | 2001                       | 2002  | 2003  | 2001                    | 2002  | 2003  |
| 1                 | 186  | 215   | 1081  | 478   | 331   | 1187  | -  | 157   | 579   | 385                        | 148   | 784   | 214                     | 180   | 639   |
| 2                 | 879  | 512   | 1335  | 957   | 631   | 1751  | -  | 183   | 923   | 386                        | 131   | 1141  | 437                     | 133   | 387   |
| 3                 | 974  | 1103  | 1038  | 844   | 970   | 1341  | 59   | 175   | 588   | 109                        | 220   | 744   | 93                      | 211   | 229   |
| 4                 | 752  | 743   | 1633  | 652   | 870   | 1564  | 94   | 339   | 604   | 43                         | 431   | 617   | 78                      | 308   | 825   |
| 5                 | 188  | 756   | 2001  | 455   | 891   | -     | 146  | 679   | 903   | 197                        | 751   | 634   | 396                     | 569   | 1211  |
| 6                 | 594  | 870   | 743   | 813   | 831   | 1749  | 135  | 191   | 177   | 49                         | 176   | 246   | 202                     | 193   | 271   |
| 7                 | 667  | 592   | 515   | 955   | 467   | 509   | 191  | 126   | 861   | 150                        | 184   | 479   | 110                     | 242   | 159   |
| 8                 | 600  | 585   | 1244  | 832   | 412   | 1269  | 43   | 424   | 626   | 76                         | 559   | 764   | 76                      | 767   | 903   |
| 9                 | 851  | 1446  | 1038  | 1029  | 1051  | 1688  | 62   | 201   | 601   | 75                         | 355   | 780   | 83                      | 659   | 275   |
| 10                | 968  | 890   | 1507  | 832   | 970   | 1627  | 111  | 267   | 237   | 173                        | 359   | 288   | 213                     | 243   | 441   |
| 11                | 876  | 751   | 1223  | 531   | 622   | 673   | 266  | 132   | 1337  | 393                        | 225   | 882   | 230                     | 247   | 979   |
| 12                | 1071   | 1250  | 1174  | 1065  | 839   | 1421  | 78   | 302   | 833   | 266                        | 468   | 946   | 413                     | 267   | 821   |
| 13                | 765  | 1065  | 2093  | 647   | 1322  | 1199  | 187  | 228   | 638   | 288                        | 194   | 572   | 236                     | 562   | 688   |
| 14                | 882  | 1117  | 2008  | 492   | 1292  | 1714  | 60   | 272   | 1507  | 177                        | 320   | 1465  | 242                     | 267   | 1610  |
| 15                | 607  | 572   | 1298  | 406   | 627   | 1177  | 316  | 560   | 1050  | 418                        | 665   | 1308  | 396                     | 644   | 1486  |
| 16                | 1023   | 914   | 1970  | 1146  | 629   | 2059  | 391  | 146   | 1031  | 471                        | 394   | 1372  | 501                     | 217   | 1451  |
| 17                | 616  | 787   | 2295  | 770   | 814   | 1893  | 406  | 657   | 1079  | 458                        | 546   | 1450  | 482                     | 336   | 828   |
| 18                | 733  | 1030  | 956   | 742   | 635   | 704   | 161  | 442   | 545   | 294                        | 642   | 1432  | 284                     | 517   | 1418  |
| 19                | 767  | 1193  | 1264  | 1228  | 1067  | 1500  | 414  | 495   | 894   | 300                        | 370   | 1076  | 192                     | 306   | 898   |
| 20                | 416  | 1649  | 1441  | 1081  | 1615  | 1137  | 235  | 201   | 801   | 310                        | 379   | 332   | 525                     | 556   | 307   |
| 21                | 395  | 1589  | 1553  | 422   | 1653  | 1485  | 192  | 407   | 1416  | 519                        | 552   | 1110  | 543                     | 428   | 1225  |
| 22                | 533  | 856   | 2003  | 507   | 694   | 1521  | 324  | 114   | 1723  | 99                         | 466   | 1800  | 67                      | 409   | 1666  |
| 23                | 978  | 1251  | 993   | 562   | 1747  | 1417  | 191  | 143   | 1769  | 196                        | 128   | 1799  | 215                     | 168   | 1836  |
| 24                | 343  | 1715  | 1562  | 626   | 1729  | 1081  | 120  | 276   | 1703  | 146                        | 359   | 1824  | 548                     | 538   | 1859  |
| 25                | 521  | 1787  | 1828  | 350   | 1772  | 1754  | 101  | 640   | 1836  | 194                        | 895   | 1801  | 147                     | 676   | 1865  |
| 26                | 581  | 1051  | 1225  | 870   | 1627  | 1063  | 235  | 543   | 1773  | 242                        | 367   | 1760  | 104                     | 282   | 1692  |
| 27                | 92   | 402   | 868   | 284   | 1269  | 1631  | 119  | 569   | 1704  | 221                        | 520   | 1689  | 405                     | 534   | 1729  |
| 28                | 136  | 1556  | 2196  | 449   | 1311  | 1185  | 142  | 971   | 1703  | 170                        | 813   | 1792  | 312                     | 535   | 1712  |
| 29                | 869  | 897   | 1382  | 951   | 1313  | 1688  | 83   | 567   | 1206  | 222                        | 717   | 525   | 261                     | 711   | 432   |
| 30                | 346  | 1799  | 1799  | 649   | 971   | 111   | 111  | 902   | 208   | 208                        | 634   | 152   | 152                     | 1258  | 1258  |
| 31                | 965  | 1957  | 1198  | 1198  | 1476  | 240   | 240  | 1655  | 351   | 351                        | 1542  | 339   | 339                     | 1388  | 1388  |
| TG                | 20174  | 29144 | 45223 | 22823 | 30001 | 42815 | 5573   | 10407 | 33204 | 7586                       | 12334 | 33588 | 8496                    | 11705 | 32488 |
| MG                | 651  | 1005  | 1459  | 736   | 1035  | 1381  | 180  | 359   | 1071  | 245                        | 425   | 1083  | 274                     | 404   | 1048  |
| TS                | -  | -     | -     | -     | -     | -     | 35.3   | 43.6  | 174.0 | 63.3                       | 54.1  | 179.8 | 71.9                    | 47.9  | 176.4 |
| MS                | -  | -     | -     | -     | -     | -     | 1.1  | 1.5   | 5.6   | 2.0                        | 1.9   | 5.8   | 2.3                     | 1.7   | 5.7   |

## REGION VI EUROPE / РЕГИОН VI ЕВРОПА

| COUNTRY<br>СТРАНА | GERMANY<br>ГЕРМАНИЯ<br>DRESDEN/KLOTZSCHE |       |       |      |       |       | POLAND<br>ПОЛЬША<br>KOSZALIN |       |       | POLAND<br>ПОЛЬША<br>KOSZALIN |       |       |                             |       |       |         |  |  |
|-------------------|--|-------|-------|------|-------|-------|------------------------------|-------|-------|------------------------------|-------|-------|-----------------------------|-------|-------|---------|--|--|
| СТАНЦИЯ           | DRESDEN/КЛОШЕ                            |       |       |      |       |       | WUERZBURG<br>ВУРЦБУРГ        |       |       | TRIER<br>ТРИР                |       |       | WEIHNSTEPHAN<br>ВЕЙЕНСТЕФАН |       |       | КОШАЛИН |  |  |
| DATE/ДАТА         | 2001                                     | 2002  | 2003  | 2001 | 2002  | 2003  | 2001                         | 2002  | 2003  | 2001                         | 2002  | 2003  | 2004                        | 2005  | 2006  |         |  |  |
| 1                 | 328                                      | 309   | 700   | 223  | 293   | 1026  | 137                          | 121   | 604   | 520                          | 651   | 1089  | 709                         | 1321  | 2981  |         |  |  |
| 2                 | 452                                      | 265   | 694   | 134  | 246   | 995   | 128                          | 170   | 563   | 242                          | 207   | 807   | 730                         | 1534  | 2621  |         |  |  |
| 3                 | 83                                       | 146   | 190   | 142  | 296   | 929   | 62                           | 260   | -     | 423                          | 117   | 443   | 1591                        | 1832  | 3008  |         |  |  |
| 4                 | 126                                      | 282   | 927   | 172  | 491   | 566   | 237                          | 382   | 534   | 191                          | 407   | 888   | 1723                        | 1098  | 2791  |         |  |  |
| 5                 | 234                                      | 496   | 1298  | 180  | 781   | 510   | 197                          | 830   | 211   | 203                          | 353   | 526   | 1950                        | 1394  | 692   |         |  |  |
| 6                 | 46                                       | 229   | 405   | 328  | 682   | 369   | 248                          | 817   | 226   | 523                          | 947   | 782   | 2015                        | 2448  | 2383  |         |  |  |
| 7                 | 131                                      | 171   | 356   | 78   | 795   | 615   | 196                          | 800   | 657   | 134                          | 908   | 562   | 1967                        | 1696  | 1637  |         |  |  |
| 8                 | 106                                      | 804   | 804   | 89   | 667   | 812   | 70                           | 178   | 732   | 137                          | 885   | 1463  | 2033                        | 2666  | 2597  |         |  |  |
| 9                 | 97                                       | 700   | 441   | 184  | 734   | 955   | 117                          | 388   | 1039  | 528                          | 904   | 630   | 1692                        | 2240  | 3042  |         |  |  |
| 10                | 204                                      | 324   | 321   | 176  | 411   | 304   | 139                          | 486   | 227   | 477                          | 534   | 260   | 2006                        | 2558  | 1058  |         |  |  |
| 11                | 185                                      | 555   | 616   | 356  | 556   | 514   | 249                          | 591   | 286   | 505                          | 384   | 786   | 2070                        | 302   | 592   |         |  |  |
| 12                | 376                                      | 373   | 693   | 155  | 557   | 638   | 136                          | 271   | 613   | 515                          | 268   | 1306  | 2064                        | 2023  | 1515  |         |  |  |
| 13                | 240                                      | 496   | 880   | 148  | 252   | 1253  | 147                          | 201   | 802   | 328                          | 679   | 1486  | 1908                        | 1933  | 2812  |         |  |  |
| 14                | 353                                      | 172   | 1573  | 326  | 345   | 1001  | 187                          | 299   | 808   | 588                          | 406   | 1212  | 2051                        | 2712  | 3051  |         |  |  |
| 15                | 284                                      | 693   | 1514  | 521  | 850   | 1518  | 469                          | 709   | 1446  | 601                          | 870   | 1736  | 812                         | 2309  | 1668  |         |  |  |
| 16                | 475                                      | 247   | 1433  | 529  | 380   | 1499  | 590                          | 656   | 1549  | -                            | 599   | 1709  | 1483                        | 1559  | 2473  |         |  |  |
| 17                | 482                                      | 262   | 1077  | 466  | 222   | 882   | 95                           | 328   | 1328  | 618                          | 445   | 645   | 2301                        | 1798  | 2931  |         |  |  |
| 18                | 217                                      | 631   | 1583  | 304  | 518   | 1290  | 204                          | 390   | 948   | 259                          | 761   | 1772  | 1829                        | 451   | 1923  |         |  |  |
| 19                | 124                                      | 352   | 1205  | 357  | 656   | 1456  | 333                          | 593   | 1452  | 295                          | 539   | 1742  | 2285                        | 881   | 1126  |         |  |  |
| 20                | 325                                      | 449   | 165   | 479  | 393   | 1183  | 530                          | 372   | 1560  | 392                          | 678   | 1707  | 2282                        | 2884  | 930   |         |  |  |
| 21                | 569                                      | 407   | 806   | 613  | 925   | 440   | 662                          | 710   | 549   | 223                          | 1180  | 265   | 2338                        | 2568  | 619   |         |  |  |
| 22                | 148                                      | 388   | 1484  | 135  | 866   | 1878  | 647                          | 719   | 1943  | 189                          | 1194  | 1954  | 2285                        | 2263  | 1864  |         |  |  |
| 23                | 188                                      | 219   | 1836  | 148  | 264   | 1892  | 231                          | 107   | 1957  | 206                          | 285   | 1986  | 2405                        | 681   | 2509  |         |  |  |
| 24                | 592                                      | 573   | 1844  | 211  | 297   | 1911  | 281                          | 204   | 1970  | 593                          | 529   | 1928  | 1920                        | 1849  | 2706  |         |  |  |
| 25                | 180                                      | -     | 1847  | 174  | 487   | 1907  | 209                          | 526   | 1979  | 536                          | 609   | 1970  | 1524                        | 2025  | 2594  |         |  |  |
| 26                | 303                                      | 463   | 1366  | 212  | 584   | 1537  | 427                          | 580   | 1886  | 461                          | 685   | 1305  | 2453                        | 2098  | 2691  |         |  |  |
| 27                | 493                                      | 550   | 1725  | 265  | 393   | 1789  | 82                           | 167   | 1850  | 637                          | 706   | 1768  | 2396                        | 2812  | 2833  |         |  |  |
| 28                | 208                                      | 523   | 1727  | 325  | 833   | 1790  | 224                          | 1095  | 1824  | 253                          | 950   | 1956  | 1697                        | 2563  | 2221  |         |  |  |
| 29                | 280                                      | 655   | 465   | 336  | 647   | 535   | 438                          | 640   | 754   | 369                          | 710   | 984   | 655                         | 2470  | 1260  |         |  |  |
| 30                | 218                                      | 1856  | 510   | 2066 | 380   | 2112  | 380                          | 2112  | 700   | -                            | -     | -     | 1452                        | 2626  | 1674  |         |  |  |
| 31                | 292                                      | 1304  | 289   | 1346 | 233   | 1865  | 233                          | 1865  | 482   | 482                          | 1593  | 3023  | 3023                        | 3023  | 3023  |         |  |  |
| TG                | 8339                                     | 12153 | 33135 | 8565 | 15421 | 35406 | 8285                         | 13590 | 35416 | 12532                        | 18390 | 38502 | 54626                       | 60617 | 62802 |         |  |  |
| MG                | 269                                      | 419   | 1069  | 276  | 532   | 1142  | 267                          | 469   | 1142  | 404                          | 634   | 1242  | 1821                        | 1955  | 2093  |         |  |  |
| TS                | 64.4                                     | 54.0  | 177.1 | 53.2 | 83.4  | 183.0 | 43.9                         | 62.8  | 165.6 | 91.9                         | 102.7 | 202.2 | 286.2                       | 258.4 | 261.0 |         |  |  |
| MS                | 2.1                                      | 1.9   | 5.7   | 1.7  | 2.9   | 5.9   | 1.4                          | 2.2   | 5.3   | 3.0                          | 3.5   | 6.5   | 9.5                         | 8.3   | 8.7   |         |  |  |

## REGION VI EUROPE / РЕГИОН VI ЕВРОПА

| COUNTRY<br>СТРАНА<br>STATION | POLAND<br>ПОЛЬША<br>WARSAWA |       |       | BELSK  |                   |       | ZAKOPANE |       |       |
|------------------------------|-----------------------------|-------|-------|--------|-------------------|-------|----------|-------|-------|
| СТАНЦИЯ                      | ВАРШАВА                     |       |       | БЕЛЬСК |                   |       | ЗАКОПАНЕ |       |       |
| DATE/ДАТА                    | 2004                        | 2005  | 2006  | 2004   | 2005              | 2006  | 2004     | 2005  | 2006  |
| 1                            | 1881                        | 1289  | 2721  | 1982   | 1268              | 3098  | 2045     | 633   | 1922  |
| 2                            | 853                         | 1931  | 2738  | 1077   | 1829              | 2991  | 2127     | 1843  | 1152  |
| 3                            | 1430                        | 935   | 1417  | 1117   | 1257              | 1180  | 1856     | 405   | 1868  |
| 4                            | 1335                        | 1636  | 2043  | 1528   | 1977              | 2871  | 1843     | 1730  | 2031  |
| 5                            | 1936                        | 621   | 1052  | 2062   | 795               | 1095  | 2206     | 679   | 1142  |
| 6                            | 1973                        | 449   | 2173  | 2121   | 483               | 2654  | 2179     | 298   | 2701  |
| 7                            | 1933                        | 1970  | 1988  | 2105   | 2006              | 1961  | 2241     | 1926  | 1893  |
| 8                            | 2025                        | 2452  | 1441  | 2105   | 2549              | 1559  | 2234     | 2777  | 739   |
| 9                            | 1771                        | 2352  | 887   | 2047   | 2661              | 806   | 2264     | 2329  | 1404  |
| 10                           | 1724                        | 2348  | 1088  | 2056   | 2423              | 844   | 1893     | 1395  | 917   |
| 11                           | 2092                        | 1675  | 1783  | 2171   | 2032              | 2224  | 2280     | 2111  | 1340  |
| 12                           | 2042                        | 1615  | 2671  | 2172   | 1782              | 2799  | 2294     | 994   | 1835  |
| 13                           | 682                         | 1352  | 2532  | 1090   | 1684              | 2722  | 1579     | 912   | 2691  |
| 14                           | 1397                        | 1540  | 2134  | 1705   | 1504              | 1577  | 1304     | 254   | 2058  |
| 15                           | 527                         | 2288  | 2211  | 842    | 2253              | 2521  | 1779     | 393   | 699   |
| 16                           | 2105                        | 1345  | 2280  | 2251   | 1768              | 2086  | 2461     | 2852  | 559   |
| 17                           | 2205                        | 1869  | 1612  | 2339   | 2157              | 1710  | 1754     | 1900  | 433   |
| 18                           | 2100                        | 893   | 1412  | 2146   | 1642              | 1293  | 2451     | 2935  | 1433  |
| 19                           | 2011                        | 934   | 2094  | 2330   | 1132              | 2137  | 1193     | 2581  | 574   |
| 20                           | 2277                        | 1658  | 1214  | 2442   | 1964              | 1831  | 2532     | 2706  | 835   |
| 21                           | 2108                        | 2536  | 1233  | 2266   | 2855              | 1243  | 2548     | 1965  | 319   |
| 22                           | 1502                        | 2583  | 608   | 1555   | 3137 <sup>q</sup> | 956   | 2558     | 2507  | 192   |
| 23                           | 2313                        | 1661  | 2314  | 2444   | 1793              | 2400  | 2585     | 1802  | 1164  |
| 24                           | 1817                        | 2011  | 425   | 1903   | 2476              | 666   | 2350     | 1153  | 1537  |
| 25                           | 1520                        | 1681  | 2226  | 1869   | 1351              | 2127  | 807      | 755   | 2038  |
| 26                           | 1189                        | 2065  | 2614  | 1456   | 1985              | 2476  | 1691     | 692   | 1426  |
| 27                           | 2417                        | 2012  | 1536  | 2519   | 2404              | 1843  | 2309     | 784   | 2357  |
| 28                           | 1849                        | 2367  | 2509  | 2209   | 2166              | 2811  | 2192     | 1117  | 2265  |
| 29                           | 994                         | 2737  | 1450  | 1138   | 2751              | 1555  | 2097     | 374   | 1765  |
| 30                           | 2196                        | 630   | 2228  | 2078   | 880               | 2601  | 1782     | 585   | 3031  |
| 31                           |                             | 1444  |       |        | 1054              |       |          | 274   |       |
| TG                           | 52204                       | 52879 | 54634 | 57125  | 58018             | 58637 | 61434    | 43661 | 44320 |
| MG                           | 1740                        | 1706  | 1821  | 1904   | 1872              | 1955  | 2048     | 1408  | 1477  |
| TS                           | 285.8                       | 242.3 | 248.9 | 275.4  | 209.2             | 206.4 | 306.9    | 152.1 | 146.4 |
| MS                           | 9.5                         | 7.8   | 8.3   | 9.2    | 6.7               | 6.9   | 10.2     | 4.9   | 4.9   |

TABLE II. DAILY AND MONTHLY TOTALS OF DIFFUSE RADIATION ( $J\ cm^{-2}$ )ТАБЛИЦА II. СУТОЧНЫЕ И МЕСЯЧНЫЕ СУММЫ РАССЕЯННОЙ РАДИАЦИИ ( $Дж\ см^{-2}$ )

|           |              | REGION I AFRICA / РЕГИОН I АФРИКА |       |  |
|-----------|--------------|-----------------------------------|-------|--|
| COUNTRY   | MADEIRA      |                                   |       |  |
| СТРАНА    | МАДЕЙРА      |                                   |       |  |
| STATION   | FUNCHAL OBS. |                                   |       |  |
| СТАНЦИЯ   | ФУНШАЛ, ОБС. |                                   |       |  |
| DATE/ДАТА | 2001         | 2002                              | 2003  |  |
| 1         | 321          | 412                               | 783   |  |
| 2         | 457          | 244                               | 465   |  |
| 3         | -            | 246                               | 560   |  |
| 4         | 283          | 483                               | 474   |  |
| 5         | 390          | -                                 | 646   |  |
| 6         | 397          | 617                               | 377   |  |
| 7         | 300          | 671                               | 347   |  |
| 8         | 390          | 504                               | 259   |  |
| 9         | 468          | 602                               | 234   |  |
| 10        | 326          | 281                               | 203   |  |
| 11        | 414          | 538                               | 514   |  |
| 12        | 427          | 623                               | 868   |  |
| 13        | 662          | 723                               | 642   |  |
| 14        | 538          | 549                               | 469   |  |
| 15        | 398          | 318                               | 648   |  |
| 16        | 463          | 566                               | 365   |  |
| 17        | 260          | 353                               | 626   |  |
| 18        | 203          | 887                               | 533   |  |
| 19        | 217          | 564                               | 653   |  |
| 20        | 381          | 554                               | 405   |  |
| 21        | 455          | 532                               | 800   |  |
| 22        | 523          | -                                 | 656   |  |
| 23        | 519          | -                                 | 597   |  |
| 24        | 397          | -                                 | 503   |  |
| 25        | 474          | -                                 | 622   |  |
| 26        | 492          | 343                               | 562   |  |
| 27        | 361          | 322                               | 637   |  |
| 28        | 643          | 825                               | 1005  |  |
| 29        | 427          | 523                               | 703   |  |
| 30        | 210          | -                                 | 653   |  |
| 31        | 570          | -                                 | 692   |  |
| TD        | 12778        | 14838)                            | 17501 |  |
| MD        | 412          | 512)                              | 565   |  |

|           |                           | REGION II ASIA / РЕГИОН II АЗИЯ |       |       |       |      |          |       |       |           |       |                       |        |        |      |
|-----------|---------------------------|---------------------------------|-------|-------|-------|------|----------|-------|-------|-----------|-------|-----------------------|--------|--------|------|
| COUNTRY   | INDIA                     |                                 |       |       |       |      |          |       |       |           |       |                       |        |        |      |
| СТРАНА    | ИНДИЯ                     |                                 |       |       |       |      |          |       |       |           |       |                       |        |        |      |
| STATION   | NEW DELHI /<br>SAFARDJUNG | JODHPUR                         |       |       |       |      | SHILLONG |       |       | AHMADABAD |       | CALCUTTA/<br>DUM DUM  |        |        |      |
| СТАНЦИЯ   | НЬЮ-ДЕЛИ /<br>САФДАРДЖУНГ | ДЖОДХПУР                        |       |       |       |      | ШИЛЛОНГ  |       |       | АХМАДАБАД |       | КАЛЬКУТТА/<br>ДУМ-ДУМ |        |        |      |
| DATE/ДАТА | 2010                      | 2011                            | 2012  | 2007  | 2008  | 2009 | 2010     | 2011  | 2012  | 2010      | 2011  | 2012                  | 2007   | 2008   | 2007 |
| 1         | -                         | 1302m                           | 813   | 1019  | 1003  | 987  | -        | 598   | 257   | -         | 843   | 198                   | 1479   | 1290   | -    |
| 2         | -                         | 1231m                           | 871   | 894   | 892   | 975  | -        | 557   | 259   | -         | 567   | 314                   | 961    | 1149   | -    |
| 3         | -                         | 1350m                           | 767   | -     | 1038  | 830  | -        | 471   | 277   | -         | 626   | 440                   | 1222   | 1321   | -    |
| 4         | -                         | 917                             | 790   | -     | 913   | 816  | -        | 457   | 278   | -         | 644   | 485                   | -      | 1113   | -    |
| 5         | -                         | 1095m                           | 812   | 1029  | 1005  | 1019 | -        | 408   | 315   | -         | 801   | 428                   | 1359   | 1145   | 1041 |
| 6         | -                         | 969                             | 808   | 949   | 998   | 522  | -        | 429   | 304   | -         | 606   | 480                   | 862    | 650    | -    |
| 7         | -                         | 879                             | 844   | 1283  | 855   | 888  | 486      | 470   | 325   | -         | 474   | 633                   | 1314   | -      | -    |
| 8         | 979                       | 731                             | 889   | 798   | 652   | 877  | 437      | 444   | 324   | -         | -     | 552                   | 945    | -      | -    |
| 9         | 740                       | -                               | 903   | 1110  | 953   | 1076 | 477      | 509   | 341   | -         | 557   | 380                   | 1208   | -      | -    |
| 10        | 632                       | 689                             | 1044m | 1159  | 1103  | 840  | -        | 539   | 405   | -         | 890   | 526                   | 1339   | -      | -    |
| 11        | 736                       | 619                             | 653   | 1050  | 1120  | 715  | -        | 699   | 580   | -         | 166   | 361                   | 1271   | -      | -    |
| 12        | 709                       | 641                             | 765   | 1141  | 1095  | 686  | 458      | 713   | 531   | -         | 265   | 577                   | 1155   | 807    | -    |
| 13        | -                         | 576                             | 1181m | 1140  | 1209  | -    | 463      | 622   | 571   | -         | 555   | 574                   | 1499   | 698    | 1018 |
| 14        | 802                       | 677                             | 1178m | 1146  | 1202  | -    | 704      | 527   | 577   | -         | 187   | 445                   | 1419   | 1067   | -    |
| 15        | 869                       | 602                             | 678   | 1088  | 160   | -    | 987      | 559   | 694   | -         | 146   | 271                   | 1579   | 883    | 1215 |
| 16        | 912                       | 716                             | 542   | 950   | 883   | -    | 871      | 577   | 723   | -         | 195   | 325                   | 1494   | 951    | 1010 |
| 17        | 1026                      | 544                             | 643   | 989   | 867   | -    | 961      | 719   | 426   | -         | 554   | 334                   | 1422   | -      | -    |
| 18        | 864                       | 581                             | 409   | 926   | 1243  | -    | 437      | 584   | 251   | -         | -     | 266                   | 1242   | -      | 1390 |
| 19        | -                         | 599                             | 437   | 1415  | 1264  | -    | 1006     | 454   | 248   | 721       | 728   | 930                   | 1320   | 1397   | 1389 |
| 20        | 854                       | 492                             | 532   | 1200  | 1025  | -    | 640      | 371   | 459   | 688       | 647   | 294                   | 1341   | 1191   | 1298 |
| 21        | 643                       | 486                             | 556   | 1080  | 843   | -    | 689      | 393   | 281   | 587       | 726   | 190                   | 1290   | -      | 637  |
| 22        | 779                       | 507                             | 458   | 1056  | 930   | -    | 471      | 408   | 326   | 664       | 485   | 279                   | -      | 580    | 799  |
| 23        | 715                       | 644                             | 559   | 837   | 908   | -    | 442      | 402   | 348   | 409       | 424   | 258                   | -      | 403    | 572  |
| 24        | 684                       | 734                             | 534   | 1231  | 408   | -    | 516      | 545   | 409   | 970       | 324   | 498                   | -      | 579    | 1088 |
| 25        | 716                       | 614                             | 492   | 919   | 800   | -    | 351      | 589   | 455   | -         | 183   | 214                   | -      | 1232   | 1078 |
| 26        | 793                       | 599                             | 470   | 1109  | 1014  | -    | 451      | 696   | 469   | -         | 403   | 290                   | 1300   | 1135   | 1071 |
| 27        | 781                       | 552                             | 565   | 731   | 1053  | -    | 605      | 383   | 506   | 787       | 700   | 312                   | 1196   | 1229   | 803  |
| 28        | 757                       | 573                             | 448   | 788   | 953   | -    | 549      | 301   | 375   | 494       | 694   | 269                   | 1283   | 1153   | 851  |
| 29        | 1159m                     | 622                             | 506   | 1101  | 1064  | -    | 612      | 315   | 343   | 465       | 188   | 357                   | 1471   | 1180   | 1142 |
| 30        | 1269m                     | 1035m                           | 558   | 1083  | 734   | -    | 597      | 271   | 350   | 522       | 221   | 189                   | 1337   | 280    | 1080 |
| 31        | 1286m                     | -                               | 594   | 1005  | 856   | -    | 599      | -     | 381   | 689       | -     | 198                   | 1444   | 693    | 666  |
| TD        | 26357)                    | 22320                           | 21299 | 32311 | 29043 | -    | 18612)   | 15010 | 12388 | -         | 14785 | 11867                 | 40243) | 29822) | -    |
| MD        | 850)                      | 744                             | 687   | 1042  | 937   | -    | 600)     | 500   | 400   | -         | 493   | 383                   | 1298)  | 962)   | -    |

## REGION II ASIA / РЕГИОН II АЗИЯ

| COUNTRY<br>СТРАНА  | INDIA<br>ИНДИЯ         |      |       |       |        |      |        |       |       |       |        |                      |                        |              |      |
|--------------------|------------------------|------|-------|-------|--------|------|--------|-------|-------|-------|--------|----------------------|------------------------|--------------|------|
| STATION<br>СТАНЦИЯ | CALCUTTA /<br>ДУМ ДУМ  |      |       |       |        |      |        |       |       |       |        | NAGPUR /<br>СОНЕГАОН | BOMBAY /<br>САНТАКРУЗ  | PUNE<br>ПУНА |      |
| СТАНЦИЯ            | КАЛЬКУТТА /<br>ДУМ-ДУМ |      |       |       |        |      |        |       |       |       |        | НАГПУР /<br>СОНЕГАОН | БОМБЕЙ /<br>САНТА-КРУС | ПУНА         |      |
| DATE/ДАТА          | 2008                   | 2009 | 2010  | 2011  | 2012   | 2007 | 2010   | 2011  | 2012  | 2010  | 2011   | 2012                 | 2007                   | 2008         | 2009 |
| 1                  | 937                    | 354  | -     | 592   | 1232m  | -    | -      | 708   | 851   | -     | -      | 1257m                | -                      | 1041         | 1115 |
| 2                  | 1041                   | 973  | 1054  | 584   | 1125m  | -    | -      | 778   | 873   | -     | 1298   | 1304m                | -                      | 1151         | 1326 |
| 3                  | 1228                   | 662  | 861   | 639   | 1056m  | -    | -      | 769   | 893   | -     | 1390m  | 1393m                | -                      | 1025         | 963  |
| 4                  | 142                    | 763  | 725   | 674   | -      | -    | -      | 495   | 965   | -     | 848    | -                    | -                      | 882          | 1011 |
| 5                  | 619                    | 849  | 861   | 623   | -      | -    | -      | 511   | 975   | -     | 796    | -                    | -                      | 987          | 1095 |
| 6                  | 677                    | 1192 | 1006  | 566   | -      | 864  | -      | 492   | 1010  | -     | 599    | -                    | -                      | 922          | 939  |
| 7                  | 1340                   | 1236 | 983   | 655   | -      | -    | -      | 601   | 1032  | 973   | 640    | -                    | -                      | 1199         | 1026 |
| 8                  | 1286                   | 913  | 757   | 489   | -      | -    | -      | 652   | 425   | 962   | 699    | -                    | -                      | 1113         | 1022 |
| 9                  | 1215                   | 1061 | 789   | 629   | -      | -    | -      | 716   | 504   | 871   | 600    | 1354m                | -                      | 1229         | 963  |
| 10                 | -                      | 866  | 673   | 395   | -      | -    | 1132   | 634   | 430   | 649   | 608    | 984                  | -                      | 883          | 906  |
| 11                 | -                      | 956  | 615   | 325   | -      | 1413 | 1038   | 487   | 549   | 661   | 599    | 565                  | 1211                   | -            | 875  |
| 12                 | -                      | 851  | 707   | 609   | 696    | 1415 | 881    | 622   | 794   | 1003  | 612    | 666                  | 1255                   | 656          | 972  |
| 13                 | -                      | 961  | 1018  | -     | 630    | -    | 1065   | 522   | 867   | 917   | 638    | 449                  | 1211                   | 546          | 1150 |
| 14                 | 1258                   | 842  | 673   | -     | 1054m  | 883  | 940    | 438   | 601   | 835   | 720    | 568                  | 1245                   | 828          | 1157 |
| 15                 | -                      | 763  | 483   | -     | 946    | 1216 | 868    | 450   | 858   | 809   | 869    | 1339m                | 957                    | 611          | 984  |
| 16                 | 1317                   | 1022 | 597   | -     | 648    | 955  | 646    | 499   | 818   | 546   | 928    | 1224m                | 1090                   | 816          | 1051 |
| 17                 | 723                    | -    | 796   | -     | 702    | 1478 | 748    | 447   | 892   | -     | 998    | 1276m                | 1185                   | 692          | 1047 |
| 18                 | 801                    | -    | -     | -     | 645    | -    | 694    | 458   | -     | -     | 1171   | 1345m                | 1291                   | 1100         | -    |
| 19                 | 1010                   | -    | 832   | -     | 562    | 983  | 884    | 630   | 540   | 1164  | 1156   | 1336m                | 1219                   | 1244         | -    |
| 20                 | 645                    | -    | 800   | -     | 575    | 821  | 1107   | 778   | 336   | 1076  | 1163   | 1421m                | 1445                   | 923          | -    |
| 21                 | 471                    | -    | 803   | -     | 676    | 1044 | 952    | 925   | 327   | 1452m | -      | -                    | 1307                   | 991          | -    |
| 22                 | 982                    | -    | 546   | -     | 674    | 994  | 671    | 638   | 335   | -     | 1225   | 1287m                | 900                    | 1262         | -    |
| 23                 | 990                    | -    | 446   | -     | 603    | 973  | 749    | 573   | 350   | 1470m | -      | 1340m                | 1389                   | 1146         | -    |
| 24                 | 1084                   | -    | 834   | -     | 688    | 1211 | 846    | 677   | 439   | 1214  | 1236   | 1414m                | 882                    | 1007         | -    |
| 25                 | 1104                   | -    | 1102m | -     | 557    | 1223 | 815    | 670   | 487   | -     | 1165   | 1314m                | 1224                   | 1112         | -    |
| 26                 | 833                    | -    | 1343m | -     | 565    | 1138 | 836    | 840   | 461   | 1119  | 1296m  | 1273m                | 818                    | 1200         | -    |
| 27                 | 502                    | -    | -     | 1106m | 512    | 774  | 619    | 766   | 508   | -     | -      | 1343m                | 1099                   | 1250         | -    |
| 28                 | 1171                   | -    | 688   | 1250m | 550    | 1152 | 589    | -     | -     | -     | -      | -                    | -                      | 999          | -    |
| 29                 | 1253                   | -    | 560   | 1273m | -      | 1158 | 771    | 791   | 671   | -     | -      | 1354m                | 1203                   | 743          | -    |
| 30                 | 1309                   | -    | 444   | 1274m | 563    | 1322 | 765    | 808   | 669   | -     | 1319m  | 1252m                | 1054                   | 1044         | -    |
| 31                 | 1245                   | -    | 825   | -     | 531    | 1197 | 697    | -     | 696   | -     | -      | 1264m                | 852                    | 965          | -    |
| TD                 | 30026)                 | -    | 24159 | -     | 22250) | -    | 25805) | 19009 | 20477 | -     | 28216) | 36583)               | -                      | 30553        | -    |
| MD                 | 969)                   | -    | 779   | -     | 718)   | -    | 832)   | 634   | 661   | -     | 941)   | 1180)                | -                      | 986          | -    |

## REGION II ASIA / РЕГИОН II АЗИЯ

| COUNTRY<br>СТРАНА  | INDIA<br>ИНДИЯ |       |       |      |      |      |       |       |      |        |      |                                 |                               |                        |       |
|--------------------|----------------|-------|-------|------|------|------|-------|-------|------|--------|------|---------------------------------|-------------------------------|------------------------|-------|
| STATION<br>СТАНЦИЯ | PUNE<br>ПУНА   |       |       |      |      |      |       |       |      |        |      | VISHAKHAPATNAM<br>ВИШАКХАПАТНАМ | GOA / PANJIM<br>ГОА / ПАНДЖИМ | MADRAS /<br>МИНАБАККАМ |       |
| СТАНЦИЯ            | ПУНА           |       |       |      |      |      |       |       |      |        |      | ВИШАКХАПАТНАМ                   | ГОА / ПАНДЖИМ                 | МДРАС /<br>МИНАБАККАМ  |       |
| DATE/ДАТА          | 2010           | 2011  | 2012  | 2007 | 2008 | 2010 | 2011  | 2012  | 2007 | 2008   | 2010 | 2011                            | 2012                          | 2007                   | 2008  |
| 1                  | -              | 856   | 737   | 1061 | -    | -    | 700   | 666   | -    | 1092   | -    | 1058                            | 627                           | 983                    | 1189  |
| 2                  | -              | 802   | 573   | 973  | -    | -    | 1038  | 731   | -    | -      | -    | 949                             | 441                           | 945                    | 1320  |
| 3                  | -              | 746   | 495   | 1058 | -    | -    | 1023  | 899   | 766  | 691    | -    | 697                             | 750                           | 1390                   | 861   |
| 4                  | -              | 754   | 513   | 601  | -    | -    | 828   | 898   | 459  | 485    | -    | 836                             | 499                           | 1348                   | 949   |
| 5                  | -              | 718   | 442   | -    | 761  | -    | 812   | 603   | -    | 383    | -    | 663                             | 458                           | 976                    | 1199  |
| 6                  | -              | 509   | 410   | -    | 1209 | -    | 1229  | 513   | -    | 902    | -    | 705                             | 397                           | 1137                   | 1459  |
| 7                  | -              | 843   | 465   | 1487 | 732  | -    | 1289  | 363   | 754  | 1206   | -    | 653                             | 473                           | 719                    | 1244  |
| 8                  | -              | 720   | 415   | 1421 | -    | -    | -     | 464   | 507  | 1420   | -    | 667                             | 750                           | 837                    | 1227  |
| 9                  | -              | 604   | 549   | 1116 | 915  | -    | -     | 457   | 400  | 1272   | -    | 698                             | 671                           | 921                    | 860   |
| 10                 | -              | 612   | 587   | 927  | -    | -    | 426   | 529   | -    | 443    | -    | 583                             | 951                           | 1156                   | 1267  |
| 11                 | 655            | 588   | 699   | 1320 | -    | -    | 360   | 670   | -    | 816    | -    | 555                             | 991                           | 1053                   | 1124  |
| 12                 | 1121           | 521   | 696   | 1289 | 890  | -    | 502   | 542   | 809  | 980    | -    | 400                             | 1022                          | 554                    | 1126  |
| 13                 | 884            | 647   | 667   | 1135 | 431  | -    | 341   | 647   | -    | 1047   | -    | 372                             | 1052                          | 1028                   | 1158  |
| 14                 | 454            | 517   | 456   | -    | 242  | -    | 379   | 591   | 769  | 1368   | -    | 408                             | 1105                          | 871                    | 986   |
| 15                 | 780            | 626   | 763   | -    | 437  | -    | 571   | 740   | 606  | 470    | -    | 309                             | 1209                          | 953                    | 909   |
| 16                 | 703            | 466   | 616   | 1195 | 926  | -    | 866   | 749   | 410  | 276    | -    | 558                             | 1244m                         | 638                    | 1198  |
| 17                 | 738            | 818   | 726   | -    | -    | -    | 913   | 661   | 383  | 1114   | -    | 485                             | 1237m                         | 1377                   | 1147  |
| 18                 | 944            | 843   | 654   | -    | 1113 | -    | 937   | 872   | 501  | 1225   | -    | -                               | 1310m                         | 905                    | 1225  |
| 19                 | 851            | 722   | 720   | 870  | 1181 | 814  | -     | 808   | -    | 1274   | -    | 577                             | 1333m                         | 586                    | 1336  |
| 20                 | 1100           | 729   | 560   | 900  | 987  | 731  | 1145  | 545   | -    | 1081   | 1001 | 497                             | 1345m                         | 944                    | 1150  |
| 21                 | 1123           | 538   | 419   | -    | -    | 760  | 1112  | 407   | -    | 597    | 959  | 361                             | -                             | 914                    | 1264  |
| 22                 | 993            | 779   | 717   | 1503 | -    | 628  | -     | 504   | -    | -      | 1020 | 500                             | -                             | 1207                   | 1220  |
| 23                 | 934            | 768   | 480   | 487  | -    | 1149 | 1092  | 549   | 906  | -      | 1118 | 750                             | 1303m                         | 1330                   | 857   |
| 24                 | 806            | 808   | 509   | 1011 | -    | 1211 | 778   | 605   | 1156 | 1152   | 968  | 952                             | 1257m                         | 1155                   | 1313  |
| 25                 | 983            | 571   | 529   | -    | -    | 1039 | 917   | 794   | -    | -      | 962  | 1069                            | 1251m                         | 833                    | 1053  |
| 26                 | 1079           | 598   | -     | -    | -    | 1228 | 165   | 805   | -    | -      | 1300 | -                               | 1214m                         | 975                    | 1289  |
| 27                 | 768            | 702   | 665   | -    | -    | 933  | 803   | 753   | -    | -      | 817  | -                               | 1190                          | 1182                   | 1192  |
| 28                 | 608            | 825   | 582   | -    | -    | 861  | 618   | 749   | -    | -      | 962  | -                               | 1141                          | 637                    | 958   |
| 29                 | 593            | 728   | 610   | -    | -    | 673  | 409   | 655   | -    | -      | 835  | -                               | 1096                          | 448                    | 1079  |
| 30                 | 587            | 622   | 654   | -    | -    | 696  | 413   | 750   | -    | 784    | 733  | -                               | 977                           | 888                    | 1117  |
| 31                 | 676            | -     | 764   | -    | -    | 859  | -     | 727   | 587  | -      | 965  | -                               | 917                           | 879                    | 823   |
| TD                 | -              | 20580 | 18261 | -    | -    | -    | 22692 | 20246 | -    | 28292) | -    | 19128)                          | 30157                         | 29769                  | 35099 |
| MD                 | -              | 686   | 589   | -    | -    | -    | 756   | 653   | -    | 913)   | -    | 638)                            | 973                           | 960                    | 1132  |

## REGION II ASIA / РЕГИОН II АЗИЯ

| COUNTRY<br>СТРАНА<br>STATION | INDIA<br>ИНДИЯ<br>MADRAS /<br>МИНАМБАККАМ | KODAIKANAL  |       |       |      |      |      |      |       | TRIVANDRUM |       |       |      | REPUBLIC OF KOREA<br>РЕСПУБЛИКА КОРЕЯ<br>АНМУЕОН-ДО |        |  |
|------------------------------|---|-------------|-------|-------|------|------|------|------|-------|------------|-------|-------|------|---|--------|--|
| СТАНЦИЯ                      | МАДРАС /<br>МИНАМБАККАМ                   | КОДАИКАНАЛЬ |       |       |      |      |      |      |       | ТРИВАНДРАМ |       |       |      | АНМЕНДО   |        |  |
| DATE/ДАТА                    | 2009                                      | 2010        | 2011  | 2012  | 2008 | 2009 | 2011 | 2012 | 2007  | 2008       | 2011  | 2012  | 1901 | 1902  | 1903   |  |
| 1                            | 991                                       | -           | 1008  | 926   | -    | -    | -    | -    | 509   | 996        | 933   | 700   | -    | 584   | -      |  |
| 2                            | 1224                                      | -           | 932   | 327   | -    | 457  | -    | 486  | 971   | -          | 1047  | 809   | -    | 626   | 766    |  |
| 3                            | 914                                       | -           | 998   | 518   | -    | -    | -    | -    | 949   | -          | 1127  | 761   | -    | 157   | 836    |  |
| 4                            | 1110                                      | -           | 765   | 280   | 419  | -    | -    | 862  | 1241  | 991        | 1282  | 772   | -    | 496   | 942    |  |
| 5                            | 818                                       | -           | 784   | 520   | 418  | 625  | -    | 885  | 1163  | -          | 803   | 734   | -    | 639   | 924    |  |
| 6                            | 1039                                      | -           | 747   | 795   | -    | -    | -    | 855  | 682   | 1012       | 929   | 1116  | -    | 227   | 1036   |  |
| 7                            | 1054                                      | -           | 906   | 842   | -    | -    | -    | 497  | 655   | 808        | 906   | -     | -    | 597   | 499    |  |
| 8                            | 757                                       | -           | 1042  | 738   | -    | -    | -    | 872  | 545   | 1036       | 1009  | 1100  | 734  | 328   | 567    |  |
| 9                            | 1002                                      | -           | 934   | 877   | 884  | 599  | 801  | 786  | 1149  | 702        | 1040  | 675   | -    | 488   | -      |  |
| 10                           | 951                                       | -           | 954   | 821   | -    | 892  | 1095 | -    | 1225  | 1051       | 928   | 878   | 216  | 793   | 841    |  |
| 11                           | 1325                                      | -           | 674   | 1021  | -    | -    | -    | -    | 1056  | 1331       | 1031  | 989   | 599  | 441   | 415    |  |
| 12                           | 997                                       | -           | 554   | 969   | -    | -    | 990  | -    | 1083  | 1455       | 1064  | 859   | 513  | 691   | 856    |  |
| 13                           | 620                                       | -           | 819   | 909   | -    | -    | -    | -    | 1154  | -          | 561   | 1096  | -    | 663   | -      |  |
| 14                           | 1020                                      | -           | 754   | 910   | -    | -    | -    | -    | 738   | 728        | 1010  | 964   | 654  | 525   | -      |  |
| 15                           | 867                                       | -           | 727   | 877   | 1377 | -    | 674  | -    | -     | 1168       | 985   | -     | 483  | 390   | -      |  |
| 16                           | 1134                                      | -           | 460   | 566   | -    | -    | 313  | -    | 985   | 1050       | 244   | 1002  | -    | 665   | 780    |  |
| 17                           | 1107                                      | -           | 905   | 809   | 1200 | -    | 560  | 751  | 1014  | -          | 752   | 673   | 404  | 284   | 577    |  |
| 18                           | 1043                                      | -           | 906   | 811   | -    | 1119 | 730  | 668  | 977   | 769        | 1203  | 892   | 463  | 707   | 1151   |  |
| 19                           | 865                                       | 1200        | 800   | 840   | -    | 522  | -    | 436  | 758   | 880        | 1000  | 930   | -    | 457   | 1019   |  |
| 20                           | 693                                       | 533         | 821   | 899   | 1349 | 629  | -    | -    | 735   | 913        | 808   | 751   | -    | 873   | 316    |  |
| 21                           | 1060                                      | 1096        | 678   | 929   | -    | 673  | -    | -    | 686   | -          | 905   | 823   | 467  | 613   | 905    |  |
| 22                           | -   | 650         | 1013  | 904   | 845  | 694  | -    | 1118 | 861   | 808        | 1455m | 978   | -    | 845   | 478    |  |
| 23                           | -   | 1054        | 1015  | 839   | -    | 758  | -    | -    | 881   | 771        | 885   | 976   | -    | 585   | -      |  |
| 24                           | -   | 1007        | 283   | 915   | 849  | 814  | 1018 | -    | -     | 687        | 964   | 672   | -    | 635   | 381    |  |
| 25                           | -   | 1048        | 116   | 953   | 623  | -    | 378  | -    | 1170  | 968        | 1148  | 674   | 402  | -   | 1173   |  |
| 26                           | -   | 1086        | 498   | 933   | 857  | -    | -    | -    | 1027  | 971        | 1202  | 616   | -    | 588   | 788    |  |
| 27                           | -   | 889         | 1037  | 921   | -    | -    | 749  | 242  | 793   | 645        | -     | 1153  | -    | 938   | 1158   |  |
| 28                           | -   | 930         | 910   | 928   | -    | -    | -    | 960  | -     | 628        | -     | 915   | 470  | 1016  | 1152   |  |
| 29                           | -   | 527         | 783   | 894   | -    | -    | 671  | -    | 919   | 783        | -     | 1016  | -    | 760   | -      |  |
| 30                           | -   | 1038        | 849   | 759   | -    | -    | 648  | 564  | 890   | 577        | 586   | 756   | -    | 1054  | -      |  |
| 31                           | -   | 864         | 869   | 798   | -    | -    | -    | 554  | 1063  | 928        | -     | 823   | 470  | 482   | -      |  |
| TD                           | 29416)                                    | -           | 23672 | 25099 | -    | -    | -    | -    | 29561 | 27957)     | 28983 | 26152 | -    | 16978   | 25033) |  |
| MD                           | 981)                                      | -           | 789   | 810   | -    | -    | -    | -    | 954   | 902)       | 966   | 844   | -    | 606   | 808)   |  |

## REGION II ASIA / РЕГИОН II АЗИЯ

| COUNTRY<br>СТРАНА<br>STATION | REPUBLIC OF KOREA<br>РЕСПУБЛИКА КОРЕЯ<br>АНМУЕОН-ДО |       |       |       |       |      |      |      |      |        |        |      |       |       |        |
|------------------------------|---|-------|-------|-------|-------|------|------|------|------|--------|--------|------|-------|-------|--------|
| СТАНЦИЯ                      | АНМЕНДО   |       |       |       |       |      |      |      |      |        |        |      |       |       |        |
| DATE/ДАТА                    | 1904  | 1905  | 1906  | 1907  | 1908  | 1909 | 1910 | 1911 | 1912 | 2001   | 2002   | 2003 | 2004  | 2005  | 2006   |
| 1                            | 986   | 1532  | 1586  | 1303  | 1141  | 1222 | -    | 322  | 217  | 503    | 770    | 798  | 965   | 967   | 1527   |
| 2                            | 512   | 436   | 1142  | 1778q | 568   | 1130 | -    | 750  | 400  | 399    | 717    | -    | 1140  | 1151  | 647    |
| 3                            | 474   | 740   | -     | -     | 713   | 864  | -    | 447  | 147  | 471    | -      | 1026 | 639   | -     | 1177   |
| 4                            | 574   | 1388  | 1079  | 993   | 1324  | 911  | -    | 342  | -    | 452    | -      | 800  | 589   | 1046  | -      |
| 5                            | 727   | 741   | 1080  | 802   | 1200  | 492  | 884  | 512  | -    | -      | -      | -    | 468   | 596   | 1109   |
| 6                            | 861   | 357   | 751   | 573   | 1001  | -    | -    | -    | -    | 155    | -      | -    | 805   | 558   | 1386   |
| 7                            | 1055  | 516   | 1145  | 1417  | 1416  | -    | 280  | 406  | 268  | 68     | 683    | 854  | 1151  | 780   | 1075   |
| 8                            | 940   | 1283  | 1348  | 992   | 1260  | -    | 506  | 231  | -    | 83     | 431    | -    | 555   | 891   | 913    |
| 9                            | 568   | 838   | 1446  | 1053  | 645   | -    | 431  | 298  | 476  | -      | -      | 853  | 874   | 412   | -      |
| 10                           | 694   | 868   | 906   | 571   | 1039  | 647  | 710  | 578  | 606  | -      | 600    | 480  | 743   | -     | 1011   |
| 11                           | 1213  | 615   | 1130  | 1229  | 871   | 986  | 692  | 566  | 457  | 465    | -      | -    | 1345  | 1172  | 1293   |
| 12                           | 578   | 1066  | 713   | 1269  | 1053  | 861  | -    | 644  | -    | 374    | 186    | -    | -     | 1101  | 749    |
| 13                           | 823   | 1155  | 850   | 802   | -     | 442  | -    | 147  | -    | 463    | 539    | 1003 | 703   | 625   | 976    |
| 14                           | 814   | 829   | 1475  | -     | 743   | 639  | 576  | -    | -    | 620    | 668    | -    | 641   | 1473  | 1505   |
| 15                           | 670   | 1246  | 864   | 831   | 1115  | 721  | 508  | 531  | -    | -      | 405    | 818  | 1275  | 375   | 1386   |
| 16                           | 1271  | 1068  | 852   | 1502  | 1050  | 611  | 790  | -    | 463  | 430    | 489    | -    | 745   | 893   | 1131   |
| 17                           | 552   | 1113  | 1246  | 1213  | 1212  | 420  | 861  | 88   | 161  | 524    | 729    | 1079 | 1163  | 1358  | 1358   |
| 18                           | 1075  | 1242  | 1031  | 1241  | 598   | 339  | 887  | 319  | 458  | -      | 294    | 566  | 1154  | 862   | 918    |
| 19                           | 1297  | 892   | -     | 1214  | 909   | 564  | 515  | 429  | -    | 683    | 747    | 568  | 368   | 819   | 1233   |
| 20                           | 1442  | 709   | 1356  | 1096  | 1172  | -    | 568  | -    | -    | -      | 638    | -    | 838   | 1120  | 942    |
| 21                           | 823   | 503   | 1295  | 1203  | 1294  | -    | -    | -    | 567  | -      | 754    | 1027 | 664   | 1134  | 750    |
| 22                           | 759   | 612   | 1398  | 1504  | 987   | -    | -    | -    | 362  | 248    | 714    | -    | 837   | 1323  | 713    |
| 23                           | 829   | 608   | 637   | 1350  | 925   | -    | 708  | -    | 435  | -      | 303    | -    | 684   | 1014  | 1152   |
| 24                           | 1248  | 834   | 487   | 908   | 1041  | -    | 419  | -    | -    | -      | 721    | 596  | 593   | 977   | 611    |
| 25                           | 690   | 1351  | 533   | 325   | 641   | 1036 | -    | 637  | 491  | 627    | 175    | 661  | 1130  | 1179  | -      |
| 26                           | 388   | 1053  | 911   | 282   | 574   | 1101 | 659  | -    | 269  | 611    | 545    | 452  | 513   | 1183  | -      |
| 27                           | 1023  | 462   | 1479  | 1047  | 1237  | 1071 | -    | 621  | -    | 215    | 577    | 678  | 668   | 770   | -      |
| 28                           | 1216  | 1218  | 992   | 748   | 1262  | 1110 | -    | -    | -    | 721    | 356    | 1191 | 703   | 929   | -      |
| 29                           | 721   | 673   | 754   | 1065  | 797   | -    | 699  | -    | 176  | 746    | 869    | 641  | 687   | 1048  | -      |
| 30                           | 1077  | 1247  | 1248  | 1194  | 542   | 659  | 298  | -    | 341  | 345    | 446    | 1418 | 1246  | -     | -      |
| 31                           | -   | 591   | 577   | 687   | 687   | 577  | -    | -    | -    | 664    | -      | 736  | -     | 1463  | -      |
| TD                           | 25900   | 27786 | 31858 | 32157 | 29984 | -    | -    | -    | -    | 13904) | 16278) | -    | 24888 | 30428 | 32130) |
| MD                           | 863   | 896   | 1062  | 1037  | 967   | -    | -    | -    | -    | 449)   | 561)   | -    | 830   | 982   | 1071)  |

## REGION II ASIA / РЕГИОН II АЗИЯ

COUNTRY REPUBLIC RUSSIA  
OF KOREA  
СТРАНА РЕСПУБЛИКА РОССИЯ  
КОРЕЯ  
STATION ANMYEON-DO OIMYAKON EKATERIN- OMSK SAMARA IRKUTSK  
СТАНЦИЯ АНМЕНДО ОЙМЯКОН ЕКАТЕРИН- ОМСК САМАРА ИРКУТСК

| DATE/ДАТА | 2008 | 2008* | 2007* | 2007* | 2005* | 2008* |
|-----------|------|-------|-------|-------|-------|-------|
| 1         | -    | 896   | 1103  | 1025  | 606   | 923   |
| 2         | -    | 408   | 795   | 930   | 888   | 305   |
| 3         | -    | 933   | 981   | 538   | 291   | 486   |
| 4         | -    | 1047  | 648   | 818   | 292   | 873   |
| 5         | -    | 934   | 727   | 1041  | 332   | 704   |
| 6         | -    | 916   | 984   | 1092  | 886   | 444   |
| 7         | -    | 1003  | 594   | 1121  | 1060  | 907   |
| 8         | -    | 988   | 638   | 606   | 482   | 558   |
| 9         | -    | 1051  | 779   | 702   | 762   | 846   |
| 10        | -    | 1026  | 764   | 591   | 974   | 917   |
| 11        | -    | 636   | 759   | 716   | 892   | 839   |
| 12        | -    | 819   | 378   | 575   | 862   | 548   |
| 13        | -    | 638   | 360   | 534   | 980   | 563   |
| 14        | -    | 738   | 570   | 489   | 523   | 749   |
| 15        | -    | 540   | 573   | 334   | 795   | 864   |
| 16        | -    | 384   | 647   | 490   | 907   | 777   |
| 17        | -    | 965   | 462   | 885   | 793   | 350   |
| 18        | 611  | 850   | 748   | 774   | 833   | 553   |
| 19        | -    | 752   | 767   | 697   | 989   | 351   |
| 20        | -    | 805   | 961   | 838   | 974   | 915   |
| 21        | -    | 871   | 1095  | 879   | 546   | 809   |
| 22        | 1000 | 704   | 994   | 616   | 793   | 922   |
| 23        | 728  | 787   | 1006  | 874   | 1337  | 223   |
| 24        | 641  | 730   | 387   | 1221  | 887   | 738   |
| 25        | -    | 666   | 818   | 1066  | 462   | 622   |
| 26        | -    | 754   | 919   | 707   | 815   | 755   |
| 27        | -    | 585   | 988   | 1084  | 439   | 553   |
| 28        | -    | 974   | 978   | 572   | 323   | 362   |
| 29        | -    | 506   | 717   | 727   | 318   | 977   |
| 30        | -    | 940   | 590   | 957   | 511   | 457   |
| 31        | -    | 396   | 810   | 868   | 815   | 827   |
| TD        | -    | 24242 | 23540 | 24367 | 22367 | 20717 |
| MD        | -    | 782   | 759   | 786   | 722   | 668   |

## REGION III SOUTH AMERICA / РЕГИОН III ЮЖНАЯ АМЕРИКА

COUNTRY CHILE  
СТРАНА ЧИЛИ  
STATION EL TOLOLO  
СТАНЦИЯ ЭЛЬ-ТОЛОЛО

| DATE/ДАТА | 1801 | 1802 | 1803 | 1804 | 1805 | 1806 | 1807 | 1808 | 1809  | 1810  | 1811 | 1812 | 1901 | 1902 | 1903 |
|-----------|------|------|------|------|------|------|------|------|-------|-------|------|------|------|------|------|
| 1         | 556  | 238  | 221  | 156  | 775  | 109  | 157  | 116  | 140   | 151   | 165  | 187  | 249  | 303  | 190  |
| 2         | 272  | 282  | 226  | 164  | 96   | 113  | 288  | 128  | 106   | 156   | 662  | 199  | 299  | 244  | 168  |
| 3         | 229  | 280  | 200  | 152  | 112  | 113  | 201  | 523  | 109   | 518   | 170  | 197  | 221  | 191  | 328  |
| 4         | 209  | 278  | 167  | 160  | 113  | 349  | 345  | 145  | 111   | 1126  | 169  | 732  | 227  | 182  | 173  |
| 5         | 188  | 304  | 205  | 209  | 121  | 341  | 225  | 128  | 116   | 160   | 175  | 196  | 276  | 170  | 155  |
| 6         | 193  | 307  | 217  | 172  | 150  | 494  | 175  | 574  | 109   | 161   | 175  | 192  | 358  | 217  | 164  |
| 7         | 234  | 238  | 281  | 146  | 122  | 89   | 92   | 137  | 116   | 275   | 171  | 208  | 280  | 533  | 165  |
| 8         | 226  | 340  | 250  | 124  | 149  | 95   | 89   | 115  | 116   | 684   | 244  | 208  | 209  | 213  | 175  |
| 9         | 241  | 433  | 171  | 245  | -    | 597  | 83   | 103  | 125   | 828   | 201  | 180  | 236  | 221  | 211  |
| 10        | 291  | 211  | 158  | 772  | 112  | 273  | 98   | 246  | 133   | 1035  | 189  | 195  | 215  | 457  | 181  |
| 11        | 467  | 202  | 133  | 402  | 93   | 382  | 91   | 112  | 148   | 961   | 183  | 179  | 251  | 775  | 210  |
| 12        | 948  | 180  | 139  | 127  | 115  | 151  | 93   | 166  | 1112  | 188   | 801  | 325  | 249  | 250  | 170  |
| 13        | 665  | 209  | 165  | 116  | 723  | 106  | 88   | 97   | 167   | 209   | 189  | 239  | 229  | 173  | 171  |
| 14        | 301  | 212  | 158  | 109  | 155  | 100  | 98   | 93   | 158   | 179   | 176  | 189  | 392  | 175  | 329  |
| 15        | 208  | 206  | 148  | 180  | 438  | 181  | 102  | 102  | 202   | 174   | 183  | 214  | 215  | 181  | 168  |
| 16        | 191  | 185  | 159  | 132  | 102  | 118  | 363  | 105  | 149   | 350   | 176  | 196  | 217  | 189  | 199  |
| 17        | 210  | 207  | 143  | 167  | 179  | 93   | 516  | 216  | 270   | 181   | 177  | 280  | 178  | 199  | 134  |
| 18        | 213  | 229  | 129  | 149  | 98   | 90   | 769  | 832  | 461   | 169   | 171  | 418  | 195  | 181  | 148  |
| 19        | 211  | 272  | 132  | 126  | 104  | 93   | 498  | 107  | 593   | 161   | 183  | 184  | 223  | 170  | 146  |
| 20        | 205  | 319  | 129  | 127  | 419  | 188  | 88   | 124  | 416   | 155   | 187  | 193  | 306  | 171  | 215  |
| 21        | 189  | 182  | 134  | 124  | 97   | 206  | 106  | 271  | 121   | 149   | 187  | 203  | 219  | 189  | 146  |
| 22        | 194  | 208  | 125  | 121  | 106  | 98   | 281  | 564  | 140   | 169   | 194  | 186  | 215  | 183  | 155  |
| 23        | 236  | 167  | 134  | 301  | 92   | 97   | 200  | 338  | 133   | 178   | 186  | 199  | 213  | 163  | 162  |
| 24        | 233  | 158  | 138  | 359  | 89   | 410  | 177  | 108  | 189   | 313   | 188  | 205  | 514  | 166  | 194  |
| 25        | 244  | 151  | 148  | 341  | 188  | 87   | 151  | 93   | 279   | 630   | 182  | 191  | 389  | 181  | 144  |
| 26        | 197  | 159  | 628  | 153  | 211  | 86   | 129  | 132  | 1170  | 175   | 199  | 187  | 239  | 184  | 145  |
| 27        | 287  | 188  | 143  | 148  | 143  | 87   | 384  | 112  | 656   | 485   | 191  | 170  | 278  | 185  | 176  |
| 28        | 222  | 307  | 149  | 504  | 666  | 106  | 108  | 150  | 989   | 705   | 183  | 209  | 239  | 195  | 581  |
| 29        | 241  |      | 165  | 136  | 579  | 178  | 108  | 138  | 1023  | 741   | 194  | 190  | 275  |      | 172  |
| 30        | 290  |      | 159  | 382  | 492  | 315  | 110  | 859  | 1038  | 1375  | 192  | 200  | 276  |      | 686  |
| 31        | 220  |      | 159  |      | 281  |      | 691  | 964  |       | 259   |      | 204  | 322  |      | 145  |
| TD        | 8811 | 6652 | 5613 | 6504 | 7357 | 5745 | 6904 | 7898 | 10595 | 13000 | 6643 | 7055 | 8204 | 6641 | 6506 |
| MD        | 284  | 238  | 181  | 217  | 237  | 192  | 223  | 255  | 353   | 419   | 221  | 228  | 265  | 237  | 210  |

\*) Corrected data  
Исправленные данные

## REGION III SOUTH AMERICA / РЕГИОН III ЮЖНАЯ АМЕРИКА

COUNTRY CHILE  
СТРАНА ЧИЛИ  
STATION EL TOLOLO

СТАНЦИЯ ЭЛЬ-ТОЛОЛО

| DATE/ДАТА | 1904 | 1905  | 1906 | 1907 | 1908 | 1909 | 1910  | 1911 | 1912 |
|-----------|------|-------|------|------|------|------|-------|------|------|
| 1         | 147  | 141   | 91   | 95   | 99   | 125  | 871   | 1000 | 212  |
| 2         | 141  | 289   | 129  | 76   | 92   | 131  | 394   | 717  | 202  |
| 3         | 158  | 135   | 127  | 89   | 106  | 325  | 1064  | 383  | 445  |
| 4         | 157  | 120   | 378  | 97   | 85   | 402  | 195   | 226  | 268  |
| 5         | 151  | 209   | 254  | 90   | 97   | 638  | 174   | 174  | 199  |
| 6         | 142  | 685   | 315  | 504  | 99   | 942  | 188   | 176  | 216  |
| 7         | 135  | 515   | 96   | 529  | 116  | 461  | 177   | 184  | 208  |
| 8         | 128  | 661   | 74   | 625  | 127  | 261  | 212   | 327  | 192  |
| 9         | 127  | 110   | 110  | 688  | 116  | 997  | 460   | 171  | 187  |
| 10        | 112  | 656   | 440  | 552  | 110  | 188  | 733   | 198  | 186  |
| 11        | 114  | 104   | 204  | 333  | 272  | 143  | 148   | 542  | 190  |
| 12        | 128  | 101   | 155  | 555  | 108  | 142  | 723   | 179  | 193  |
| 13        | 137  | 90    | 325  | 305  | 265  | 153  | 1108  | 226  | 202  |
| 14        | 120  | 97    | 103  | 83   | 162  | 152  | 1023  | 228  | 788  |
| 15        | 113  | 107   | 304  | 84   | 321  | 134  | 1072  | 245  | 325  |
| 16        | 145  | 276   | 105  | 92   | 133  | 155  | 672   | 209  | 237  |
| 17        | 104  | 697   | 444  | 169  | 131  | 490  | 178   | 253  | 213  |
| 18        | 294  | 111   | 91   | 88   | 493  | 138  | 177   | 211  | 213  |
| 19        | 992  | 732   | 192  | 91   | 295  | 270  | 689   | 247  | 247  |
| 20        | 416  | 230   | 385  | 239  | 112  | 146  | 183   | 265  | 203  |
| 21        | 114  | 108   | 229  | 309  | 110  | 143  | 171   | 540  | 207  |
| 22        | 127  | 101   | 140  | 135  | 127  | 147  | 1072  | 236  | 195  |
| 23        | 666  | 88    | 94   | 462  | 109  | 157  | 598   | 189  | 217  |
| 24        | 231  | 490   | 218  | 105  | 518  | 153  | 197   | 254  | 214  |
| 25        | 591  | 550   | 95   | 103  | 150  | 169  | 297   | 329  | 193  |
| 26        | 125  | 365   | 114  | 750  | 129  | 160  | 166   | 259  | 223  |
| 27        | 110  | 629   | 456  | 118  | 119  | 156  | 242   | 216  | 340  |
| 28        | 102  | 676   | 614  | 129  | 180  | 137  | 736   | 205  | 984  |
| 29        | 290  | 509   | 256  | 91   | 116  | 147  | 192   | 203  | 383  |
| 30        | 108  | 616   | 126  | 89   | 120  | 185  | 648   | 272  | 207  |
| 31        |      | 371   |      | 317  | 125  |      | 265   |      | 241  |
| TD        | 6425 | 10569 | 6664 | 7992 | 5142 | 7947 | 15025 | 8864 | 8530 |
| MD        | 214  | 341   | 222  | 258  | 166  | 265  | 485   | 295  | 275  |

## REGION IV NORTH AND CENTRAL AMERICA / РЕГИОН IV СЕВЕРНАЯ И ЦЕНТРАЛЬНАЯ АМЕРИКА

COUNTRY MEXICO  
СТРАНА МЕКСИКА  
STATION CIUDAD UNIV.

СТАНЦИЯ СЬЮДАД, УН-Т

TRINIDAD AND TOBAGO  
ТРИНИДАД И ТОБАГО  
PIARCO INT. ARPT,  
TRINIDAD  
ПЬЯРКО, МЕЖД.АЭР.  
(ТРИНИДАД)

| DATE/ДАТА | 1801  | 1802  | 1803  | 1804  | 1805  | 1806  | 1807  | 1808  | 1809  | 1810  | 1811  | 1812  | 1907  | 1908  | 1909  |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1         | 657   | 671   | 668   | 347   | 885   | 650   | 1082  | 1159  | 1215  | 1386  | 1153  | 255   | 1233  | 720   | 748   |
| 2         | 521   | 408   | 769   | 692   | 1586  | 935   | 1403  | 1450  | 1077  | 1195  | 1259  | 261   | 1042  | 746   | 435   |
| 3         | 590   | 820   | 471   | 819   | 890   | 683   | 1498  | 1402  | 1095  | 1190  | 1892  | 472   | 837   | 1047  | 902   |
| 4         | 609   | 602   | 372   | 750   | 850   | 489   | 1253  | 988   | 1242  | 922   | 782   | 716   | 964   | 722   | 1104  |
| 5         | 622   | 525   | 483   | 748   | 1477  | 767   | 832   | 1303  | 1378  | 750   | 999   | 793   | 998   | 940   | 808   |
| 6         | 478   | 661   | 669   | 1056  | 1226  | 1659  | 1281  | 1148  | 1551  | 1130  | 740   | 615   | 1160  | 887   | 931   |
| 7         | 255   | 835   | 958   | 1064  | 929   | 1269  | 1038  | 1136  | 1247  | 1030  | 1174  | 574   | 634   | 977   | 735   |
| 8         | 338   | 852   | 896   | 973   | 1080  | 1257  | 1215  | 867   | 1233  | 1108  | 473   | 412   | 989   | 616   | 584   |
| 9         | 1036  | 646   | 605   | 1191  | 1068  | 1230  | 1464  | 1058  | 1106  | 830   | 610   | 729   | 1115  | 759   | 819   |
| 10        | 1422  | 889   | 445   | 1143  | 1055  | 949   | 1015  | 1231  | 1677  | 1093  | 956   | 1126  | 978   | 994   | 1100  |
| 11        | 477   | 613   | 313   | 1438  | 1093  | 1073  | 1564  | 1140  | 1193  | 1335  | 979   | 1255  | 1079  | 739   | 786   |
| 12        | 372   | 660   | 814   | 1127  | 968   | 870   | 1150  | 735   | 965   | 1375  | 630   | 1109  | 1162  | 609   | 757   |
| 13        | 267   | 757   | 588   | 1094  | 1041  | 1278  | 1300  | 914   | 1141  | 1020  | 998   | 1061  | 841   | 883   | 855   |
| 14        | 404   | 800   | 904   | 782   | 881   | 1154  | 1148  | 1203  | 1230  | 1060  | 316   | 691   | 940   | 797   | 656   |
| 15        | 299   | 402   | 552   | 1009  | 573   | 1234  | 1496  | 1062  | 1299  | 993   | 698   | 990   | 986   | 669   | 756   |
| 16        | 385   | 347   | 636   | 993   | 909   | 1446  | 1569  | 822   | 1248  | 1142  | 489   | 529   | 639   | 877   | 560   |
| 17        | 573   | 421   | 691   | 1058  | 918   | 857   | 1136  | 874   | 1135  | 668   | 385   | 985   | 953   | 946   | 278   |
| 18        | 727   | 481   | 991   | 991   | 515   | 859   | 768   | 1136  | 1149  | 1052  | 1208  | 684   | 654   | 716   | 631   |
| 19        | 672   | 972   | 567   | 620   | 657   | 1744  | 978   | 1076  | 1078  | 1033  | 391   | 315   | 1039  | 763   | 780   |
| 20        | 499   | 832   | 619   | 722   | 844   | 1733  | 996   | 1272  | 1107  | 1171  | 550   | 246   | 819   | 910   | 661   |
| 21        | 396   | 591   | 780   | 865   | 1162  | 1377  | 934   | 882   | 845   | 658   | 628   | 335   | 923   | 1136  | 748   |
| 22        | 548   | 469   | 587   | 925   | 948   | 912   | 1286  | 1147  | 893   | 607   | 577   | 405   | 508   | 793   | 471   |
| 23        | 673   | 549   | 472   | 1428  | 974   | 1691  | 997   | 1455  | 1039  | 483   | 648   | 480   | 1131  | 745   | 1239  |
| 24        | 694   | 649   | 275   | 909   | 949   | 1038  | 774   | 1107  | 1293  | 653   | 763   | 522   | 734   | 1000  | 804   |
| 25        | 1026  | 604   | 303   | 1107  | 611   | 1021  | 852   | 1330  | 1289  | 766   | 503   | 901   | 632   | 898   | 1024  |
| 26        | 927   | 692   | 549   | 1326  | 459   | 1198  | 767   | 1352  | 1105  | 869   | 1154  | 1264  | 926   | 884   | 602   |
| 27        | 557   | 695   | 664   | 979   | 380   | 1006  | 855   | 1166  | 1017  | 1019  | 809   | 623   | 629   | 895   | 689   |
| 28        | 542   | 627   | 486   | 1238  | 458   | 1195  | 956   | 1086  | 1245  | 1347  | 622   | 1231  | 989   | 697   | 601   |
| 29        | 256   |       | 620   | 1310  | 582   | 1231  | 869   | 1113  | 1311  | 1102  | 1075  | 458   | 717   | 764   | 977   |
| 30        | 790   |       | 982   | 939   | 686   | 1052  | 1000  | 1200  | 1155  | 726   | 1036  | 452   | 697   | 641   | 953   |
| 31        | 961   |       | 754   |       | 515   |       | 1190  | 1289  |       | 727   |       | 705   | 892   | 761   |       |
| TD        | 18573 | 18070 | 19483 | 29643 | 27169 | 33857 | 34666 | 35103 | 35558 | 30440 | 24497 | 21194 | 27840 | 25531 | 22994 |
| MD        | 599   | 645   | 628   | 988   | 876   | 1129  | 1118  | 1132  | 1185  | 982   | 817   | 684   | 898   | 824   | 766   |



## REGION IV NORTH AND CENTRAL AMERICA / РЕГИОН IV СЕВЕРНАЯ И ЦЕНТРАЛЬНАЯ АМЕРИКА

| COUNTRY   | TRINIDAD AND TOBAGO           |       |       |       |       |       |       |       |       |       |       |       |       | USA                                 |
|-----------|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------------------------|
| СТРАНА    | ТРИНИДАД И ТОБАГО             |       |       |       |       |       |       |       |       |       |       |       |       | США                                 |
| STATION   | PIARCO INT. ARPT, TRINIDAD    |       |       |       |       |       |       |       |       |       |       |       |       | SOLAR RADIATION RESEARCH LAB.       |
| СТАНЦИЯ   | ПЬЯРКО, МЕЖД. АЭР. (ТРИНИДАД) |       |       |       |       |       |       |       |       |       |       |       |       | ИССЛ. ЛАБОРАТОРИЯ ПО СОЛН. РАДИАЦИИ |
| DATE/ДАТА | 1910                          | 1911  | 1912  | 2001  | 2002  | 2003  | 2005* | 2006* | 2007* | 2008* | 2009* | 2010* | 2011* | 2012*                               |
| 1         | 681                           | -     | 718   | 531   | 973   | 702   | 757   | 752   | 356   | 649   | 328   | 383   | 171   | 402                                 |
| 2         | 783                           | -     | 1138  | 393   | 845   | 745   | 842   | 1094  | 743   | 845   | 227   | 710   | 148   | 364                                 |
| 3         | 735                           | -     | 928   | 915   | 743   | 1132  | 593   | 707   | 848   | 605   | 344   | 528   | 438   | 137                                 |
| 4         | 698                           | -     | 708   | 345   | 927   | 864   | 412   | 941   | 1070  | 920   | 316   | 264   | 196   | 132                                 |
| 5         | 827                           | 914   | 656   | 908   | 742   | 1160  | 704   | 777   | 656   | 812   | 416   | 432   | 170   | 130                                 |
| 6         | 923                           | 1112  | 914   | 793   | 831   | 656   | 835   | 744   | 693   | 921   | 606   | 334   | 606   | 126                                 |
| 7         | 916                           | 1100  | 749   | 622   | 854   | 763   | 442   | 502   | 866   | 491   | 880   | 403   | 582   | 126                                 |
| 8         | 508                           | 923   | 595   | 622   | 760   | 739   | 794   | 617   | 605   | 713   | 381   | 432   | 154   | 173                                 |
| 9         | 904                           | 745   | 580   | 815   | 833   | 1375  | 959   | 861   | 753   | 613   | 643   | 565   | 204   | 122                                 |
| 10        | 654                           | 1018  | 899   | 730   | 827   | 712   | 500   | 526   | 458   | 821   | 854   | 366   | 187   | 492                                 |
| 11        | 656                           | 566   | 359   | 615   | 819   | 927   | 771   | 608   | 445   | 908   | 612   | 436   | 155   | 381                                 |
| 12        | 653                           | 497   | 1140  | 612   | 1359q | 582   | 978   | 442   | 905   | 784   | 244   | 271   | 176   | 431                                 |
| 13        | 701                           | 520   | 1020  | 788   | 942   | 717   | 962   | 1031  | 978   | 613   | 238   | 269   | 158   | 190                                 |
| 14        | 607                           | 604   | 945   | 998   | 715   | 746   | 1042  | 697   | 1126  | 644   | 440   | 371   | -     | 589                                 |
| 15        | 1076                          | 879   | 665   | 832   | 1251  | 870   | 1052  | 771   | 1158  | 706   | 744   | 469   | 178   | 413                                 |
| 16        | 787                           | 842   | 927   | 905   | 1037  | 983   | 653   | 1109  | 748   | 663   | 976   | 566   | 371   | 263                                 |
| 17        | 643                           | 831   | 885   | 987   | 1217  | 955   | 666   | 573   | 767   | 718   | 861   | 815   | 180   | 398                                 |
| 18        | 847                           | 647   | 850   | 508   | 1083  | 779   | 526   | 723   | 846   | 753   | 863   | 490   | 504   | 321                                 |
| 19        | 757                           | 877   | 979   | 905   | 1045  | 792   | 878   | 1058  | 1017  | 732   | 887   | 888   | 153   | 307                                 |
| 20        | 1013                          | 1109  | 697   | 1028  | 973   | 782   | 539   | 597   | 424   | 762   | 846   | 750   | 267   | 398                                 |
| 21        | -                             | 979   | 1017  | 841   | 613   | 982   | 419   | 787   | 859   | 950   | 601   | 772   | 349   | 447                                 |
| 22        | -                             | 790   | 797   | 818   | 1045  | 930   | 476   | 496   | 1081  | 942   | 674   | 199   | 172   | 132                                 |
| 23        | -                             | 857   | 1132  | 405   | 1186  | 1101  | 1042  | 436   | 845   | 1037  | 572   | 575   | 212   | 381                                 |
| 24        | -                             | 731   | 984   | 914   | 1218  | 821   | 618   | 496   | 1109  | 1039  | 600   | 591   | 428   | 199                                 |
| 25        | -                             | 786   | 825   | 1239  | 865   | 796   | 853   | 917   | 862   | 942   | 911   | 540   | 155   | 133                                 |
| 26        | -                             | 548   | 939   | 692   | 812   | 830   | 372   | 447   | 1085  | 977   | 1184  | 944   | 232   | 174                                 |
| 27        | -                             | 1077  | 758   | 663   | 718   | 654   | 772   | 696   | 758   | 520   | 730   | 222   | 164   | 276                                 |
| 28        | -                             | 735   | 716   | 672   | 962   | 1284  | 1176  | 1066  | 1168  | 762   | 275   | 182   | 137   | 219                                 |
| 29        | -                             | 744   | 718   | 816   | 787   | 920   | 480   | 1556  | 450   | 877   | 190   | 159   | 188   | 470                                 |
| 30        | -                             | 1029  | 837   | 832   | 1011  | 642   | 642   | 637   | 677   | 573   | 432   | 148   | 143   | 143                                 |
| 31        | -                             | -     | 671   | 840   | -     | 737   | 761   | -     | 499   | 715   | -     | 227   | -     | 268                                 |
| TD        | -                             | 24762 | 25746 | 23584 | 26982 | 27047 | 22516 | 22664 | 24855 | 24007 | 17875 | 14301 | 7426  | 8737                                |
| MD        | -                             | 825   | 831   | 761   | 930   | 872   | 726   | 755   | 802   | 774   | 596   | 461   | 248   | 282                                 |

## REGION V SOUTH-WEST PACIFIC / РЕГИОН V ЮГО-ЗАПАД ТИХОГО ОКЕАНА

| COUNTRY   | AUSTRALIA            |        |      |      |              |       |       |       |             |        |       |       |                 |       |       |
|-----------|----------------------|--------|------|------|--------------|-------|-------|-------|-------------|--------|-------|-------|-----------------|-------|-------|
| СТРАНА    | АВСТРАЛИЯ            |        |      |      |              |       |       |       |             |        |       |       |                 |       |       |
| STATION   | COCOS ISLAND ARPT    |        |      |      | DARWIN ARPT  |       |       |       | BROOME ARPT |        |       |       | TOWNSVILLE ARPT |       |       |
| СТАНЦИЯ   | КОКОСОВЫЕ О-ВА, АЭР. |        |      |      | ДАРВИН, АЭР. |       |       |       | БРУМ, АЭР.  |        |       |       | ТАУНСВИЛЛ, АЭР. |       |       |
| DATE/ДАТА | 2009                 | 2010   | 2011 | 2012 | 2009         | 2010  | 2011  | 2012  | 2009        | 2010   | 2011  | 2012  | 2009            | 2010  | 2011  |
| 1         | -                    | -      | 598  | -    | 363          | 870   | 461   | 1156  | 270         | 313    | 480   | 536   | -               | 603   | 829   |
| 2         | -                    | -      | -    | -    | 428          | 810   | 670   | 1171  | 345         | 330    | 536   | 830   | 1204            | 445   | 514   |
| 3         | -                    | -      | -    | 920  | 781          | 576   | 838   | 905   | 268         | 1185   | 631   | 535   | 1046            | 576   | 711   |
| 4         | -                    | 1025   | -    | 972  | 326          | 857   | 1368  | 893   | 252         | 739    | 652   | 416   | 606             | 798   | 575   |
| 5         | -                    | 1242   | -    | 1160 | 318          | 787   | 1253  | 1296  | 282         | 297    | 376   | 718   | 873             | 1152  | 452   |
| 6         | -                    | -      | -    | -    | 494          | 932   | 481   | 998   | 287         | 290    | 461   | -     | 739             | -     | 420   |
| 7         | -                    | -      | 1207 | 719  | 377          | 828   | 507   | 852   | 311         | 280    | 612   | 1371  | 749             | 412   | 831   |
| 8         | -                    | -      | 1083 | -    | 335          | 1358  | 695   | 975   | 300         | 288    | 646   | 570   | 601             | 575   | 1030  |
| 9         | -                    | 661    | 647  | 900  | 400          | 946   | 1022  | 938   | 327         | 296    | 850   | 1411  | 441             | 339   | 1290  |
| 10        | -                    | 726    | -    | -    | 647          | 755   | 1056  | 631   | 314         | 320    | 616   | 532   | 481             | 397   | 991   |
| 11        | -                    | 820    | 942  | 1408 | 526          | 826   | 1028  | 1039  | 292         | 401    | 446   | 919   | 350             | 520   | 819   |
| 12        | -                    | 1201   | -    | 1440 | 386          | 604   | 1011  | 1075  | 337         | 313    | 404   | 723   | 512             | 470   | 467   |
| 13        | -                    | 1285   | -    | 456  | 521          | 759   | 877   | 775   | 325         | 305    | 416   | 774   | 421             | 473   | 897   |
| 14        | -                    | 908    | -    | 539  | 541          | 708   | 539   | 766   | 387         | 329    | 404   | 396   | 389             | 652   | 919   |
| 15        | -                    | 1249   | 623  | -    | 629          | 991   | 962   | -     | 413         | 320    | 698   | 640   | 721             | 890   | 595   |
| 16        | -                    | 1441   | 847  | -    | 561          | 1014  | 807   | 824   | 288         | 360    | 1253  | 554   | 755             | 413   | 397   |
| 17        | -                    | 980    | -    | 1527 | 1183         | -     | 879   | 1273  | 498         | 349    | 612   | 1166  | 1372            | 404   | 433   |
| 18        | -                    | 836    | 900  | -    | 834          | 767   | 843   | 1281  | 295         | -      | 530   | 1056  | 1136            | 479   | 474   |
| 19        | -                    | 1495   | 888  | 709  | 1071         | 824   | -     | 805   | 352         | -      | 750   | 1295  | 659             | 431   | 576   |
| 20        | -                    | 876    | -    | 1074 | 1168         | 618   | 913   | 843   | 308         | -      | 896   | 1403  | 379             | 612   | 474   |
| 21        | -                    | 1164   | 1008 | 1062 | 831          | 812   | 927   | 1127  | 288         | 581    | 1200  | 1236  | 669             | 468   | 452   |
| 22        | -                    | 1313   | -    | 1307 | 649          | 753   | 1066  | 1096  | 882         | -      | 857   | 517   | 629             | 676   | 525   |
| 23        | -                    | -      | 1390 | 1469 | 601          | 522   | 920   | 1250  | 318         | -      | 735   | 332   | 542             | 850   | 583   |
| 24        | -                    | 1211   | 1325 | -    | 866          | 565   | 908   | 1083  | 275         | -      | 506   | 921   | 793             | 839   | 536   |
| 25        | -                    | 968    | 1411 | 1398 | 586          | 594   | 1408  | 1076  | 309         | -      | 549   | 906   | 617             | 813   | 1448  |
| 26        | -                    | 1077   | 1359 | -    | 955          | 851   | 745   | 978   | 281         | 1028   | 1078  | 579   | 536             | 1350  | 1082  |
| 27        | -                    | 657    | -    | 1320 | 1055         | 1104  | 1284  | 781   | 356         | 709    | 1063  | 490   | 315             | 992   | 660   |
| 28        | -                    | 751    | 1071 | 835  | 1053         | 694   | 687   | 987   | 317         | 530    | 1094  | 619   | 527             | 637   | 1493  |
| 29        | -                    | 471    | 1362 | -    | 719          | 783   | 812   | 994   | 316         | 510    | 1234  | 1228  | 1120            | 312   | 641   |
| 30        | 507                  | 965    | 691  | 1172 | 928          | 762   | 713   | 960   | 313         | 1354   | 959   | 601   | 610             | 400   | 383   |
| 31        | -                    | 1017   | -    | -    | -            | 624   | -     | 818   | -           | -      | 977   | 592   | -               | 749   | -     |
| TD        | -                    | 31438) | -    | -    | 20132        | 24690 | 26566 | 30634 | 10106       | 16022) | 21544 | 24662 | 20474           | 19351 | 21497 |
| MD        | -                    | 1014)  | -    | -    | 671          | 796   | 886   | 988   | 337         | 517)   | 718   | 796   | 682             | 624   | 717   |

\*) Corrected data  
Исправленные данные

## REGION V SOUTH-WEST PACIFIC / РЕГИОН V ЮГО-ЗАПАД ТИХОГО ОКЕАНА

| COUNTRY<br>СТРАНА  | AUSTRALIA<br>АВСТРАЛИЯ |                |       |       | ROCKHAMPTON ARPT<br>РОКГЕМПТОН, АЭР. |        |       |        | ALICE SPRINGS<br>ARPT<br>АЛИС-СПРИНГС,<br>АЭР. |       |       |       | KALGOORLIE ARPT<br>КАЛГУРЛИ, АЭР. |       |       |
|--------------------|------------------------|----------------|-------|-------|--------------------------------------|--------|-------|--------|--|-------|-------|-------|-----------------------------------|-------|-------|
| STATION<br>СТАНЦИЯ | TOWNSVILLE             | LEARMONTH ARPT |       |       |                                      |        |       |        |  |       |       |       |                                   |       |       |
| СТАЦИЯ             | ТАУНСВИЛЛ,             | ЛИРМАНТ, АЭР.  |       |       |                                      |        |       |        |  |       |       |       |                                   |       |       |
| СТАЦИЯ             | ТАУНСВИЛЛ,             | ЛИРМАНТ, АЭР.  |       |       |                                      |        |       |        |  |       |       |       |                                   |       |       |
| DATE/ДАТА          | 2012                   | 2009           | 2010  | 2011  | 2012                                 | 2009   | 2010  | 2011   | 2012   | 2009  | 2010  | 2011  | 2012                              | 2009  | 2010  |
| 1                  | 475                    | 359            | 322   | 1229  | 304                                  | 294    | -     | 768    | 599  | 258   | 346   | 558   | 1111                              | 803   | 353   |
| 2                  | 478                    | 274            | 347   | 713   | 399                                  | 529    | -     | 760    | 675  | 253   | 362   | 310   | 1606                              | 852   | 366   |
| 3                  | 509                    | 243            | 482   | 311   | 341                                  | 1189   | 530   | 1174   | -  | 289   | 356   | 430   | 466                               | 382   | 724   |
| 4                  | 509                    | 254            | 329   | 281   | 424                                  | 1195   | -     | 1106   | 667  | 720   | 751   | 301   | 485                               | 378   | 1134  |
| 5                  | 811                    | 273            | 371   | 321   | 384                                  | 394    | 613   | 514    | 385  | 306   | 490   | 384   | 1012                              | 298   | 837   |
| 6                  | 427                    | 252            | 285   | 356   | 984                                  | 987    | -     | 445    | 556  | 279   | 488   | 1225  | 1397                              | 575   | 383   |
| 7                  | 513                    | 302            | 272   | 429   | 445                                  | 794    | -     | -      | 670  | 260   | 591   | 1292  | 1375                              | 831   | 721   |
| 8                  | 1044                   | 275            | 273   | 336   | 448                                  | 681    | 466   | -      | 1219   | 257   | 245   | 918   | 362                               | 300   | 471   |
| 9                  | 1106                   | 286            | 280   | 393   | 403                                  | 571    | 378   | -      | 1026   | 260   | 245   | 357   | 1519                              | 364   | 288   |
| 10                 | 646                    | 524            | 328   | 389   | 1050                                 | 382    | 388   | -      | -  | 257   | 254   | 593   | 777                               | 1153  | 658   |
| 11                 | 1542                   | 287            | 340   | 290   | 707                                  | 1185   | 534   | 768    | 1611   | 262   | 249   | 678   | 1264                              | 882   | 408   |
| 12                 | 860                    | 250            | 307   | 285   | 1188                                 | -      | 712   | -      | 949  | 248   | 264   | 381   | 1238                              | 1041  | 312   |
| 13                 | 614                    | 259            | 319   | 267   | 1200                                 | 823    | 796   | -      | -  | 271   | 284   | 341   | 1294                              | 249   | 463   |
| 14                 | 1468                   | 282            | 328   | 435   | 373                                  | 735    | 982   | 777    | 1419   | 483   | 281   | 479   | 862                               | 329   | 379   |
| 15                 | 908                    | 283            | 889   | 320   | 431                                  | 611    | -     | 698    | 1058   | 425   | 260   | 639   | 813                               | -     | 803   |
| 16                 | 1188                   | 307            | 351   | 276   | 427                                  | 760    | 630   | 712    | 846  | 954   | 324   | 1455  | 345                               | 734   | 1396  |
| 17                 | 714                    | 275            | 524   | 307   | 397                                  | 511    | 605   | 614    | 1083   | 618   | 590   | 1533  | 394                               | 1035  | 292   |
| 18                 | 614                    | 264            | 738   | 424   | 406                                  | 661    | 665   | 860    | -  | 758   | 573   | 450   | 386                               | 747   | 789   |
| 19                 | 881                    | 447            | 790   | 743   | 411                                  | 1066   | 494   | 1195   | 1033   | -     | 1117  | 851   | 583                               | 325   | 492   |
| 20                 | 488                    | 291            | 398   | 1064  | 569                                  | 913    | 831   | 850    | -  | -     | 597   | 1036  | 867                               | 771   | 588   |
| 21                 | 556                    | 289            | 369   | 313   | 562                                  | 706    | 1050  | 585    | 678  | 1020  | 718   | 648   | 795                               | 976   | 517   |
| 22                 | 658                    | 289            | 346   | 626   | 603                                  | -      | 767   | 812    | 1227   | 618   | 568   | 561   | 826                               | 340   | 1116  |
| 23                 | 369                    | 283            | 375   | 408   | 483                                  | 1194   | -     | 392    | -  | -     | 507   | 1118  | 539                               | 312   | 540   |
| 24                 | 577                    | 868            | 324   | 382   | 445                                  | 1266   | 1175  | 1049   | 1400   | -     | 597   | 821   | 704                               | 324   | 555   |
| 25                 | 1428                   | 357            | 427   | 537   | 420                                  | 652    | -     | 1308   | 777  | 551   | 323   | 333   | 580                               | 1164  | 320   |
| 26                 | 815                    | 809            | 402   | 400   | 445                                  | -      | -     | 940    | 1255   | 302   | 941   | 855   | 254                               | 771   | 310   |
| 27                 | 1343                   | 255            | 920   | 463   | 491                                  | -      | 1223  | 1011   | 769  | 293   | 286   | 261   | 509                               | 241   | 331   |
| 28                 | 1328                   | 331            | 940   | 328   | 554                                  | -      | -     | 576    | -  | 1205  | 277   | 379   | 1372                              | 776   | 425   |
| 29                 | 1377                   | 331            | 1254  | 342   | 502                                  | 858    | -     | 604    | 1053   | 832   | 303   | 760   | 352                               | 323   | 418   |
| 30                 | 1239                   | 314            | 1009  | 451   | 612                                  | 986    | 607   | 418    | 494  | 322   | 412   | 813   | 317                               | 329   | 799   |
| 31                 | 1094                   | -              | 456   | -     | 713                                  | -      | -     | -      | -  | -     | 279   | -     | 280                               | -     | 450   |
| TD                 | 26579                  | 10113          | 15095 | 13419 | 17121                                | 23932) | 22620 | 23670) | 28910)   | 14193 | 13878 | 20760 | 24684                             | 18212 | 17638 |
| MD                 | 857                    | 337            | 487   | 447   | 552                                  | 798)   | 730   | 789)   | 933)   | 473   | 448   | 692   | 796                               | 607   | 569   |

## REGION V SOUTH-WEST PACIFIC / РЕГИОН V ЮГО-ЗАПАД ТИХОГО ОКЕАНА

| COUNTRY<br>СТРАНА  | AUSTRALIA<br>АВСТРАЛИЯ |                |       |       | WAGGA WAGGA |        |       |       | MELBOURNE ARPT |        |       |       | CAPE GRIM |       |       |
|--------------------|------------------------|----------------|-------|-------|-------------|--------|-------|-------|----------------|--------|-------|-------|-----------|-------|-------|
| STATION<br>СТАНЦИЯ | KALGOORLIE ARPT        | ADELAIDE ARPT  |       |       |             |        |       |       |                |        |       |       |           |       |       |
| СТАЦИЯ             | КАЛГУРЛИ, АЭР.         | АДЕЛАИДА, АЭР. |       |       |             |        |       |       |                |        |       |       |           |       |       |
| СТАЦИЯ             | КАЛГУРЛИ, АЭР.         | АДЕЛАИДА, АЭР. |       |       |             |        |       |       |                |        |       |       |           |       |       |
| DATE/ДАТА          | 2011                   | 2012           | 2009  | 2010  | 2011        | 2012   | 2009  | 2010  | 2011           | 2012   | 2009  | 2010  | 2011      | 2012  | 2009  |
| 1                  | 984                    | 309            | 763   | 496   | 341         | 724    | 370   | 732   | 297            | 900    | 534   | 845   | 737       | 893   | 711   |
| 2                  | 853                    | 317            | 387   | 344   | 331         | 694    | 722   | -     | 530            | 946    | 571   | 395   | 418       | 1432  | 541   |
| 3                  | 823                    | 468            | 713   | 661   | 602         | 340    | 567   | 337   | 725            | 1420   | 528   | 874   | 675       | 485   | 552   |
| 4                  | 993                    | 341            | 775   | 672   | 1459        | 359    | 606   | 702   | 985            | 385    | 821   | 868   | 380       | 514   | 770   |
| 5                  | 685                    | 321            | 432   | 990   | 1438        | 902    | 596   | 998   | 1214           | 962    | 610   | 729   | 1118      | 894   | 646   |
| 6                  | 519                    | 402            | 513   | 868   | 743         | 1467   | 283   | 443   | 678            | 1282   | 294   | 523   | 1241      | 1258  | 801   |
| 7                  | 397                    | 320            | 407   | 580   | 881         | 1217   | 394   | 450   | 402            | 1339   | 280   | 485   | 1103      | 1266  | 684   |
| 8                  | 354                    | 370            | 747   | 646   | 401         | 717    | 753   | 972   | 363            | 758    | 385   | 982   | 362       | 1363  | 470   |
| 9                  | 389                    | 1308           | 251   | 392   | 1203        | 422    | 920   | 1093  | 311            | 320    | 763   | 1258  | 353       | 431   | 387   |
| 10                 | 746                    | 671            | 448   | 309   | 983         | 436    | 339   | 466   | 337            | -      | 317   | 832   | 430       | 849   | 362   |
| 11                 | 840                    | 672            | 732   | 340   | 518         | 1167   | 264   | 536   | 1329           | -      | 717   | 1016  | 538       | 427   | 521   |
| 12                 | 312                    | 1122           | 741   | 1371  | 958         | 1632   | 630   | 394   | 915            | -      | 244   | 853   | 814       | 541   | 431   |
| 13                 | 296                    | 838            | 304   | 367   | -           | 1058   | 572   | 315   | 827            | -      | 484   | 1059  | 1153      | 1148  | 801   |
| 14                 | 837                    | 320            | 487   | 1137  | -           | 1388   | 533   | 371   | 489            | -      | 745   | 670   | 1330      | 338   | 768   |
| 15                 | 1216                   | 702            | 326   | 606   | -           | 770    | 245   | 638   | 538            | -      | -     | 445   | 1052      | 924   | 891   |
| 16                 | 299                    | 998            | 913   | 538   | 708         | 983    | 317   | -     | -              | -      | 799   | 602   | 541       | 1452  | 937   |
| 17                 | 1295                   | 1779           | 691   | 1047  | 321         | 1765   | 680   | 867   | 394            | -      | 962   | 1165  | 1124      | 854   | 648   |
| 18                 | 356                    | 500            | 805   | 840   | 923         | 443    | 1110  | 864   | 394            | 858    | 911   | 957   | 541       | 1658  | 453   |
| 19                 | 892                    | 679            | 864   | 297   | 461         | 315    | 814   | 455   | 1093           | 1166   | 792   | 948   | 617       | 1469  | 524   |
| 20                 | 343                    | 377            | 332   | 1054  | 1000        | 467    | 724   | 643   | 409            | 409    | 731   | 1146  | 747       | 815   | 736   |
| 21                 | 441                    | 331            | 774   | 1212  | 1250        | 795    | 460   | 845   | 680            | 1100   | 597   | 1301  | 1286      | 1095  | 746   |
| 22                 | 712                    | 302            | 1031  | 1047  | 764         | 722    | 644   | 406   | 1045           | 972    | 605   | 787   | -         | 1139  | 842   |
| 23                 | 291                    | 300            | 747   | 1031  | 877         | -      | 856   | 860   | 895            | 1016   | 945   | 995   | 1079      | 1725  | 989   |
| 24                 | 293                    | 296            | 930   | 1136  | 310         | -      | 916   | 915   | 678            | 308    | 1097  | 904   | 1642      | 1678  | 979   |
| 25                 | 591                    | 288            | 709   | 1263  | 281         | -      | 483   | 1118  | 383            | 702    | 797   | 906   | 452       | -     | 975   |
| 26                 | 414                    | 857            | 714   | 982   | 698         | -      | 904   | -     | 562            | 563    | 891   | 1156  | 1141      | 607   | 803   |
| 27                 | 703                    | 812            | 845   | 975   | 462         | -      | 879   | 1440  | 597            | 725    | 868   | 1204  | 883       | 849   | 568   |
| 28                 | 436                    | 330            | 578   | 281   | 1203        | -      | 279   | 918   | 967            | 738    | 774   | 567   | 890       | 1348  | 1108  |
| 29                 | 355                    | 335            | 567   | 905   | 884         | -      | 715   | 523   | 694            | 322    | 1038  | 623   | 1238      | 526   | 1065  |
| 30                 | 786                    | 881            | 748   | 966   | 606         | -      | 593   | 1181  | 548            | 854    | 1052  | 1233  | 617       | 1240  | 653   |
| 31                 | -                      | 858            | -     | 1071  | -           | -      | -     | 1039  | -              | -      | 1078  | -     | 482       | -     | 832   |
| TD                 | 18451                  | 18404          | 19274 | 24424 | 22896       | 26467) | 18168 | 22720 | 19944          | 25774) | 20847 | 26810 | 25347     | 31052 | 21362 |
| MD                 | 615                    | 594            | 642   | 788   | 763         | 854)   | 606   | 733   | 665            | 831)   | 695   | 865   | 845       | 1002  | 712   |

## REGION V SOUTH-WEST PACIFIC / РЕГИОН V ЮГО-ЗАПАД ТИХОГО ОКЕАНА

| COUNTRY   | AUSTRALIA |       |       | INDONESIA        |       |       |       |  |
|-----------|-----------|-------|-------|------------------|-------|-------|-------|--|
| СТРАНА    | АВСТРАЛИЯ |       |       | ИНДОНЕЗИЯ        |       |       |       |  |
| STATION   | CAPE GRIM |       |       | BUKIT KOTOTABANG |       |       |       |  |
| СТАНЦИЯ   | КЕЙП-ГРИМ |       |       | БУКИТ КОТОТАБАНГ |       |       |       |  |
| DATE/ДАТА | 2010      | 2011  | 2012  | 1911             | 1912  | 2001  | 2002  |  |
| 1         | 873       | 435   | 712   | 811i             | -     | -     | 1130) |  |
| 2         | 815       | 897   | 1126  | 1134             | 891)  | 1143) | 854)  |  |
| 3         | 906       | 1148  | 1158  | 923              | 1208) | -     | -     |  |
| 4         | 705       | 1061  | 1357  | 969              | 1024i | -     | -     |  |
| 5         | 844       | 1182  | 537   | 868              | -     | -     | -     |  |
| 6         | 464       | 1434  | 1451  | 917              | 911i  | -     | 1290) |  |
| 7         | 1215      | 510   | 1273  | 855              | -     | -     | 983)  |  |
| 8         | 553       | 342   | 1287  | 810              | 887i  | -     | -     |  |
| 9         | 760       | 582   | 1689  | 1033             | 1094) | -     | -     |  |
| 10        | 1339      | 660   | 824   | 1060             | 976i  | 1102i | 986)  |  |
| 11        | 799       | 774   | 422   | 832              | -     | 1215i | -     |  |
| 12        | 805       | 888   | 717   | 948              | -     | -     | 1212) |  |
| 13        | 696       | 1424  | 1650  | 1008             | 900)  | -     | -     |  |
| 14        | 983       | 1284  | -     | 793i             | -     | -     | 1091) |  |
| 15        | 388       | 1130  | 1467  | 1151i            | 1037) | 1272) | 1184) |  |
| 16        | 672       | 1310  | 535   | 963              | -     | -     | 904)  |  |
| 17        | 796       | 899   | 663   | 898              | 981)  | 859)  | -     |  |
| 18        | 1145      | 1049  | 1302  | 774              | 963)  | 878)  | -     |  |
| 19        | 1120      | 1187  | 1143  | 787              | 1063i | 1214) | 1562) |  |
| 20        | 1143      | 1194  | 915   | -                | -     | 1207) | -     |  |
| 21        | 1137      | 1692  | 1436  | -                | 1000i | 907i  | 1061) |  |
| 22        | 945       | 1390  | 1530  | -                | -     | 901   | -     |  |
| 23        | 666       | 658   | 1553  | -                | 1045i | 1154) | -     |  |
| 24        | 1095      | 1371  | 1564  | 865              | 1050) | -     | -     |  |
| 25        | 897       | 945   | 1734  | -                | -     | -     | -     |  |
| 26        | 593       | 807   | 1605  | 838)             | 1014) | 1096) | -     |  |
| 27        | 634       | 1149  | 484   | -                | -     | -     | -     |  |
| 28        | 1608      | 989   | 1681  | -                | -     | -     | -     |  |
| 29        | 1209      | 1412  | 1672  | -                | -     | 741i  | -     |  |
| 30        | 714       | 830   | 1420  | 893)             | 1011) | -     | -     |  |
| 31        | 451       |       | 750   | -                | -     | -     | -     |  |
| TD        | 26970     | 30633 | 36846 | -                | -     | -     | -     |  |
| MD        | 870       | 1021  | 1189  | -                | -     | -     | -     |  |

## REGION VI EUROPE / РЕГИОН VI ЕВРОПА

| COUNTRY   | GERMANY                    |      |       |              |      |       |            |      |       |                   |      |       |           |       |       |
|-----------|----------------------------|------|-------|--------------|------|-------|------------|------|-------|-------------------|------|-------|-----------|-------|-------|
| СТРАНА    | ГЕРМАНИЯ                   |      |       |              |      |       |            |      |       |                   |      |       |           |       |       |
| STATION   | HAMBURG -<br>FUHLISBUETTEL |      |       | BRAUNSCHWEIG |      |       | LINDENBERG |      |       | DRESDEN/KLOTZSCHE |      |       | WUERZBURG |       |       |
| СТАНЦИЯ   | ГАМБУРГ -<br>ФЮЛСБУТТЕЛЬ   |      |       | БРАУНШВАЙГ   |      |       | ЛИНДЕНБЕРГ |      |       | ДРЕЗДЕН/КЛОШЕ     |      |       | ВЮРЦБУРГ  |       |       |
| DATE/ДАТА | 2001                       | 2002 | 2003  | 2001         | 2002 | 2003  | 2001       | 2002 | 2003  | 2001              | 2002 | 2003  | 2001      | 2002  | 2003  |
| 1         | -                          | 157  | 430   | -            | 148  | 509   | 157        | 180  | 485   | 191               | 287  | 495   | 223       | 249   | 422   |
| 2         | -                          | 183  | 535   | 115          | 131  | 334   | 131        | 133  | 378   | 100               | 261  | 424   | 133       | 241   | 454   |
| 3         | 57                         | 171  | 479   | 109          | 215  | 542   | 92         | 207  | 229   | 82                | 145  | 188   | 139       | 290   | 499   |
| 4         | 88                         | 269  | 488   | 43           | 348  | 423   | 77         | 276  | 474   | 126               | 244  | 474   | 170       | 342   | 390   |
| 5         | 134                        | 170  | 440   | 175          | 190  | 557   | 196        | 302  | 459   | 198               | 320  | 298   | 167       | 206   | 470   |
| 6         | 133                        | 191  | 176   | 49           | 175  | 246   | 172        | 193  | 271   | 46                | 229  | 385   | 293       | 362   | 356   |
| 7         | 181                        | 126  | 435   | 145          | 183  | 421   | 106        | 242  | 159   | 114               | 170  | 329   | 77        | 307   | 503   |
| 8         | 42                         | 332  | 521   | 74           | 348  | 671   | 76         | 203  | 583   | 105               | 191  | 507   | 86        | 427   | 701   |
| 9         | 62                         | 199  | 496   | 74           | 321  | 619   | 83         | 372  | 274   | 97                | 361  | 413   | 184       | 309   | 578   |
| 10        | 108                        | 243  | 237   | 114          | 259  | 288   | 171        | 237  | 413   | 198               | 293  | 314   | 150       | 298   | 295   |
| 11        | 236                        | 130  | 416   | 230          | 222  | 605   | 204        | 240  | 616   | 173               | 394  | 597   | 219       | 253   | 489   |
| 12        | 77                         | 263  | 473   | 209          | 325  | 461   | 175        | 255  | 476   | 186               | 302  | 549   | 153       | 370   | 560   |
| 13        | 167                        | 227  | 490   | 183          | 192  | 449   | 228        | 345  | 575   | 235               | 381  | 540   | 148       | 249   | 671   |
| 14        | 59                         | 257  | 378   | 175          | 313  | 388   | 232        | 265  | 254   | 283               | 168  | 267   | 296       | 302   | 756   |
| 15        | 210                        | 358  | 694   | 150          | 398  | 626   | 185        | 449  | 502   | 195               | 474  | 462   | 162       | 436   | 492   |
| 16        | 206                        | 146  | 593   | 120          | 345  | 492   | 113        | 203  | 482   | 135               | 244  | 520   | 180       | 345   | 477   |
| 17        | 172                        | 385  | 770   | 124          | 387  | 334   | 131        | 332  | 533   | 166               | 261  | 711   | 264       | 217   | 638   |
| 18        | 157                        | 371  | 485   | 242          | 422  | 487   | 242        | 360  | 633   | 216               | 326  | 358   | 245       | 406   | 558   |
| 19        | 196                        | 370  | 700   | 237          | 328  | 855   | 189        | 274  | 718   | 124               | 301  | 686   | 290       | 378   | 553   |
| 20        | 234                        | 199  | 763   | 261          | 368  | 325   | 180        | 449  | 306   | 257               | 423  | 164   | 193       | 386   | 815   |
| 21        | 182                        | 378  | 612   | 123          | 475  | 737   | 125        | 384  | 583   | 132               | 388  | 639   | 155       | 399   | 428   |
| 22        | 249                        | 112  | 307   | 99           | 408  | 230   | 67         | 397  | 404   | 142               | 316  | 509   | 135       | 497   | 242   |
| 23        | 190                        | 143  | 326   | 196          | 127  | 304   | 215        | 168  | 287   | 188               | 219  | 262   | 148       | 257   | 274   |
| 24        | 120                        | 273  | 422   | 134          | 314  | 259   | 187        | 501  | 289   | 151               | 497  | 304   | 211       | 296   | 288   |
| 25        | 101                        | 399  | 348   | 194          | 371  | 391   | 147        | 483  | 305   | 179               | -    | 303   | 173       | 454   | 310   |
| 26        | 225                        | 388  | 357   | 240          | 337  | 375   | 103        | 256  | 406   | 277               | 405  | 662   | 212       | 489   | 567   |
| 27        | 117                        | 508  | 433   | 211          | 494  | 483   | 313        | 495  | 513   | 323               | 446  | 550   | 244       | 386   | 439   |
| 28        | 142                        | 486  | 390   | 169          | 475  | 408   | 204        | 426  | 545   | 189               | 418  | 494   | 219       | 593   | 479   |
| 29        | 83                         | 483  | 611   | 162          | 556  | 509   | 248        | 508  | 416   | 263               | 505  | 411   | 292       | 581   | 521   |
| 30        | 111                        |      | 602   | 206          |      | 601   | 152        |      | 728   | 216               |      | 475   | 384       |       | 248   |
| 31        | 221                        |      | 622   | 313          |      | 655   | 286        |      | 725   | 281               |      | 804   | 283       |       | 727   |
| TD        | 4554                       | 7917 | 15029 | 5039         | 9175 | 14584 | 5187       | 9135 | 14021 | 5568              | 9289 | 14094 | 6228      | 10325 | 15200 |
| MD        | 147                        | 273  | 485   | 163          | 316  | 470   | 167        | 315  | 452   | 180               | 320  | 455   | 201       | 356   | 490   |

## REGION VI EUROPE / РЕГИОН VI ЕВРОПА

| COUNTRY<br>СТРАНА<br>STATION | GERMANY<br>ГЕРМАНИЯ<br>TRIER |      |       |      | POLAND<br>ПОЛЬША<br>KOSZALIN |       |       |       | WARSAWA |       |       |       | ZAKOPANE |       |       |  |          |
|------------------------------|------------------------------|------|-------|------|------------------------------|-------|-------|-------|---------|-------|-------|-------|----------|-------|-------|--|----------|
| СТАНЦИЯ                      | ТРИР                         |      |       |      | ВЕЙЕНСТЕФАН                  |       |       |       | КОШАЛИН |       |       |       | ВАРШАВА  |       |       |  | ЗАКОПАНЕ |
| DATE/ДАТА                    | 2001                         | 2002 | 2003  | 2001 | 2002                         | 2003  | 2004  | 2005  | 2006    | 2004  | 2005  | 2006  | 2004     | 2005  | 2006  |  |          |
| 1                            | 135                          | 109  | 452   | 148  | 320                          | 420   | 576   | 726   | 335     | 338   | 886   | 461   | 394      | 611   | 912   |  |          |
| 2                            | 128                          | 168  | 396   | 242  | 205                          | 461   | 569   | 631   | 530     | 698   | 673   | 600   | 291      | 733   | 870   |  |          |
| 3                            | 62                           | 259  | -     | 221  | 116                          | 433   | 543   | 682   | 343     | 597   | 832   | 853   | 568      | 389   | 1062  |  |          |
| 4                            | 214                          | 300  | 490   | 191  | 323                          | 608   | 404   | 853   | 597     | 578   | 689   | 701   | 484      | 940   | 1007  |  |          |
| 5                            | 188                          | 175  | 209   | 189  | 302                          | 517   | 273   | 798   | 523     | 268   | 590   | 862   | 261      | 490   | 895   |  |          |
| 6                            | 245                          | 212  | 222   | 147  | 166                          | 624   | 247   | 538   | 780     | 282   | 439   | 761   | 309      | 293   | 577   |  |          |
| 7                            | 193                          | 245  | 555   | 134  | 230                          | 544   | 341   | 725   | 1082    | 322   | 739   | 852   | 270      | 914   | 1201  |  |          |
| 8                            | 69                           | 178  | 599   | 136  | 238                          | 328   | 257   | 486   | 616     | 237   | 615   | 1070  | 286      | 431   | 655   |  |          |
| 9                            | 117                          | 361  | 576   | 221  | 250                          | 576   | 662   | 816   | 336     | 454   | 461   | 843   | 277      | 751   | 1103  |  |          |
| 10                           | 133                          | 363  | 224   | 201  | 264                          | 254   | 445   | 512   | 837     | 531   | 484   | 798   | 566      | 988   | 895   |  |          |
| 11                           | 247                          | 377  | 281   | 316  | 343                          | 633   | 434   | 245   | 470     | 282   | 768   | 857   | 287      | 769   | 818   |  |          |
| 12                           | 133                          | 252  | 543   | 234  | 256                          | 577   | 312   | 670   | 1026    | 328   | 820   | 547   | 251      | 907   | 890   |  |          |
| 13                           | 128                          | 198  | 612   | 325  | 449                          | 396   | 440   | 734   | 510     | 508   | 950   | 829   | 673      | 786   | 732   |  |          |
| 14                           | 187                          | 295  | 739   | 225  | 395                          | 843   | 422   | 434   | 365     | 635   | 791   | 1025  | 596      | 254   | 843   |  |          |
| 15                           | 188                          | 385  | 665   | 142  | 439                          | 272   | 577   | 497   | 1182    | 502   | 863   | 955   | 921      | 393   | 699   |  |          |
| 16                           | 139                          | 473  | 461   | -    | 536                          | 267   | 679   | 786   | 889     | 498   | 1037  | 973   | 343      | 562   | 559   |  |          |
| 17                           | 91                           | 277  | 625   | 166  | 396                          | 616   | 298   | 941   | 395     | 284   | 852   | 847   | 793      | 964   | 426   |  |          |
| 18                           | 195                          | 363  | 856   | 257  | 535                          | 507   | 656   | 363   | 811     | 590   | 747   | 669   | 289      | 439   | 1011  |  |          |
| 19                           | 247                          | 408  | 363   | 275  | 428                          | 382   | 361   | 391   | 736     | 386   | 863   | 818   | 934      | 757   | 574   |  |          |
| 20                           | 284                          | 345  | 637   | 353  | 602                          | 468   | 506   | 334   | 739     | 426   | 856   | 920   | 305      | 701   | 755   |  |          |
| 21                           | 131                          | 558  | 533   | 223  | 258                          | 265   | 266   | 652   | 498     | 519   | 663   | 770   | 302      | 887   | 319   |  |          |
| 22                           | 197                          | 461  | 235   | 189  | 395                          | 288   | 339   | 869   | 591     | 700   | 489   | 566   | 333      | 726   | 192   |  |          |
| 23                           | 231                          | 107  | 281   | 206  | 284                          | 310   | 275   | 515   | 858     | 354   | 1226  | 770   | 329      | 1162  | 685   |  |          |
| 24                           | 276                          | 203  | 254   | 281  | 513                          | 367   | 712   | 1021  | 691     | 871   | 648   | 421   | 556      | 685   | 873   |  |          |
| 25                           | 209                          | 373  | 285   | 442  | 582                          | 339   | 959   | 761   | 677     | 938   | 1008  | 817   | 546      | 740   | 925   |  |          |
| 26                           | 341                          | 501  | 400   | 427  | 451                          | 952   | 303   | 843   | 511     | 719   | 856   | 596   | 887      | 615   | 673   |  |          |
| 27                           | 82                           | 165  | 418   | 311  | 500                          | 551   | 397   | 451   | 578     | 371   | 779   | 799   | 606      | 653   | 976   |  |          |
| 28                           | 210                          | 531  | 494   | 172  | 463                          | 426   | 979   | 656   | 758     | 661   | 1025  | 707   | 831      | 745   | 722   |  |          |
| 29                           | 313                          | 435  | 589   | 356  | 580                          | 779   | 530   | 717   | 901     | 774   | 489   | 876   | 658      | 335   | 658   |  |          |
| 30                           | 346                          |      | 240   | 305  |                              | -     | 837   | 745   | 807     | 530   | 622   | 681   | 881      | 555   | 409   |  |          |
| 31                           | 224                          |      | 580   | 397  |                              | 682   |       | 365   |         |       | 989   |       |          | 274   |       |  |          |
| TD                           | 5883                         | 9077 | 14274 | 7680 | 10819                        | 15175 | 14599 | 19757 | 19972   | 15181 | 23749 | 23244 | 15027    | 20449 | 22916 |  |          |
| MD                           | 190                          | 313  | 460   | 248  | 373                          | 490   | 487   | 637   | 666     | 506   | 766   | 775   | 501      | 660   | 764   |  |          |

TABLE III. DAILY AND MONTHLY TOTALS OF RADIATION BALANCE ( $J\ cm^{-2}$ )ТАБЛИЦА III. СУТОЧНЫЕ И МЕСЯЧНЫЕ СУММЫ РАДИАЦИОННОГО БАЛАНСА ( $Дж\ см^{-2}$ )

REGION II ASIA / РЕГИОН II АЗИЯ

| COUNTRY<br>СТРАНА | RUSSIA<br>РОССИЯ | ОЙМУЯКОН          | ЕКАТЕРИН-<br>BURG | ОМСК    | ИРКУТСК |
|-------------------|------------------|-------------------|-------------------|---------|---------|
| СТАНЦИЯ           | ОЙМЯКОН          | ЕКАТЕРИН-<br>БУРГ | ОМСК              | ИРКУТСК |         |
| DATE/ДАТА         | 2008*            | 2007*             | 2007*             | 2008*   |         |
| 1                 | 715              | 691               | 1452              | -       |         |
| 2                 | 893              | 1164              | 1681              | 153     |         |
| 3                 | 724              | 991               | 1847              | 217     |         |
| 4                 | 453              | 1313              | 1732              | 756     |         |
| 5                 | 687              | 334               | 1639              | 1251    |         |
| 6                 | 618              | 1074              | 1661              | 171     |         |
| 7                 | 501              | 1323              | 1502              | 634     |         |
| 8                 | 494              | 1230              | 1835              | 261     |         |
| 9                 | 387              | 1277              | 1860              | 934     |         |
| 10                | 406              | 1230              | 1793              | 520     |         |
| 11                | 168              | 1102              | 1776              | 964     |         |
| 12                | 344              | 1252              | 1765              | 1280    |         |
| 13                | 410              | 1247              | 1879              | 1139    |         |
| 14                | 216              | 1262              | 1872              | -       |         |
| 15                | 744              | 1188              | 1911              | 384     |         |
| 16                | 732              | 1017              | 1852              | 1084    |         |
| 17                | 504              | 1210              | 1826              | 1159    |         |
| 18                | 399              | -                 | 1805              | 1042    |         |
| 19                | 599              | 603               | 1712              | 1201    |         |
| 20                | 414              | 677               | 1239              | 526     |         |
| 21                | 327              | 672               | 717               | 284     |         |
| 22                | 260              | 1047              | 1680              | 509     |         |
| 23                | 288              | 766               | 1399              | 68      |         |
| 24                | 473              | 1236              | 894               | 873     |         |
| 25                | 278              | 786               | 795               | 312     |         |
| 26                | 290              | 670               | 1296              | 350     |         |
| 27                | 418              | 936               | 1100              | 300     |         |
| 28                | 359              | 729               | 1435              | 194     |         |
| 29                | 400              | -                 | 1413              | 634     |         |
| 30                | 408              | 337               | 1288              | 258     |         |
| 31                | 85               | 885               | 1259              | 627     |         |
| TQ                | 13994            | 30197             | 47915             | 19332   |         |
| MQ                | 451              | 974               | 1546              | 624     |         |

\*) Corrected data  
Исправленные данные

TABLE IV. MONTHLY MEANS OF HOURLY TOTALS OF GLOBAL RADIATION (J cm<sup>-2</sup>)ТАБЛИЦА IV. СРЕДНИЕ ЗА МЕСЯЦ ЧАСОВЫЕ СУММЫ СУММАРНОЙ РАДИАЦИИ (Дж·см<sup>-2</sup>)

| MONTH<br>МЕСЯЦ   | HOUR / ЧАС |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    | MG |       |
|--|------------|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|-------|
|  | 01         | 02 | 03 | 04 | 05 | 06 | 07 | 08  | 09  | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19 | 20 | 21 | 22 | 23 | 24 |    |       |
| <b>REGION I      AFRICA / РЕГИОН I      АФРИКА</b>                   |            |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |       |
| <b>MADEIRA<br/>МАДЕЙРА</b>   |            |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |       |
| <b>PORTO SANTO ARPT ПОРТУ-САНТУ, АЭР.</b>                            |            |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |       |
| 2001   | 0          | 0  | 0  | 0  | 0  | 0  | 0  | 11  | 52  | 100 | 137 | 170 | 170 | 159 | 126 | 85  | 34  | 2   | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 1046  |
| 2002   | 0          | 0  | 0  | 0  | 0  | 0  | 1  | 22  | 72  | 133 | 177 | 199 | 194 | 178 | 151 | 110 | 57  | 10  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 1303  |
| 2003   | 0          | 0  | 0  | 0  | 0  | 0  | 7  | 46  | 97  | 167 | 207 | 247 | 253 | 249 | 211 | 154 | 91  | 32  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 1763  |
| <b>FUNCHAL OBS.      ФУНШАЛ, ОБС.</b>                                |            |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |       |
| 2001   | 0          | 0  | 0  | 0  | 0  | 0  | 0  | 11  | 61  | 121 | 171 | 190 | 177 | 153 | 134 | 85  | 35  | 1   | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 1143  |
| 2002   | 0          | 0  | 0  | 0  | 0  | 0  | 1  | 29  | 91  | 161 | 208 | 236 | 231 | 187 | 150 | 109 | 49  | 6   | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 1447  |
| 2003   | 0          | 0  | 0  | 0  | 0  | 0  | 5  | 48  | 111 | 178 | 218 | 221 | 214 | 195 | 174 | 125 | 75  | 22  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 1588  |
| <b>REGION II      ASIA / РЕГИОН II      АЗИЯ</b>                     |            |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |       |
| <b>REPUBLIC OF KOREA<br/>РЕСПУБЛИКА КОРЕЯ</b>                        |            |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |       |
| <b>ANMYEON-DO      АНМЕНДО</b>                                       |            |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |       |
| 1901   | 0          | 0  | 0  | 0  | 0  | 0  | 0  | 0   | -   | 67  | 114 | 145 | 166 | 163 | 143 | 97  | 50  | 8   | 0  | 0  | 0  | 0  | 0  | 0  | 0  | -     |
| 1902   | 0          | 0  | 0  | 0  | 0  | 0  | 0  | 3   | 32  | 86  | 135 | 167 | 197 | 194 | 165 | 128 | 75  | 24  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 1192  |
| 1903   | 0          | 0  | 0  | 0  | 0  | 0  | 1  | 22  | 82  | 137 | 187 | 219 | 224 | 226 | 194 | 154 | 105 | 50  | 6  | 0  | 0  | 0  | 0  | 0  | 0  | -     |
| 1904   | 0          | 0  | 0  | 0  | 0  | 0  | 9  | 50  | 103 | 158 | 190 | 223 | 234 | 231 | 202 | 169 | 115 | 63  | 17 | 0  | 0  | 0  | 0  | 0  | 0  | 1578) |
| 1905   | 0          | 0  | 0  | 0  | 0  | 2  | 30 | 90  | 157 | 223 | 264 | 287 | 300 | 291 | 259 | 213 | 154 | 94  | 37 | 3  | 0  | 0  | 0  | 0  | 0  | 2279) |
| 1906   | 0          | 0  | 0  | 0  | 0  | 4  | 29 | 75  | 128 | 180 | 227 | 256 | 265 | 260 | 237 | 203 | 153 | 104 | 50 | 7  | 0  | 0  | 0  | 0  | 0  | 2093  |
| 1907   | 0          | 0  | 0  | 0  | 0  | 2  | 19 | 53  | 94  | 138 | 167 | 194 | 209 | 218 | 198 | 170 | 129 | 86  | 39 | 6  | 0  | 0  | 0  | 0  | 0  | 1704) |
| 1908   | 0          | 0  | 0  | 0  | 0  | 0  | 15 | 63  | 120 | 183 | 222 | 246 | 260 | 263 | 239 | 196 | 151 | 99  | -  | 2  | 0  | 0  | 0  | 0  | 0  | -     |
| 1909   | 0          | 0  | 0  | 0  | 0  | 0  | 4  | 38  | 89  | 140 | 182 | 203 | 210 | 207 | 179 | 129 | 89  | 40  | 6  | 0  | 0  | 0  | 0  | 0  | 0  | 1516) |
| 1910   | 0          | 0  | 0  | 0  | 0  | 0  | 1  | 19  | 74  | 124 | 167 | 209 | 213 | 193 | 168 | 115 | 62  | 14  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 1359  |
| 1911   | 0          | 0  | 0  | 0  | 0  | 0  | 0  | 5   | -   | 95  | 130 | 155 | 165 | 155 | 119 | 81  | 28  | 2   | 0  | 0  | 0  | 0  | 0  | 0  | 0  | -     |
| 1912   | 0          | 0  | 0  | 0  | 0  | 0  | 0  | 1   | -   | 66  | 99  | 124 | 128 | 123 | 95  | 60  | 17  | 1   | 0  | 0  | 0  | 0  | 0  | 0  | 0  | -     |
| 2001   | 0          | 0  | 0  | 0  | 0  | 0  | 0  | 0   | 11  | 55  | 94  | 131 | 147 | 138 | 116 | 77  | 37  | 5   | 0  | 0  | 0  | 0  | 0  | 0  | 0  | -     |
| 2002   | 0          | 0  | 0  | 0  | 0  | 0  | 0  | 3   | 33  | 89  | 137 | 171 | 192 | 184 | 156 | 120 | 70  | 24  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 1062) |
| 2003   | 0          | 0  | 0  | 0  | 0  | 0  | 1  | -   | 85  | 150 | 202 | 239 | 260 | 257 | 223 | 178 | 122 | 58  | 7  | 0  | 0  | 0  | 0  | 0  | 0  | -     |
| 2004   | 0          | 0  | 0  | 0  | 0  | 0  | 0  | 12  | 67  | 135 | 196 | 258 | 290 | 299 | 296 | 264 | 207 | 149 | 82 | 22 | 0  | 0  | 0  | 0  | 0  | 2106) |
| 2005   | 0          | 0  | 0  | 0  | 0  | 2  | 25 | 68  | 120 | 164 | 202 | 229 | 249 | 245 | 212 | 173 | 121 | 68  | 28 | 3  | 0  | 0  | 0  | 0  | 0  | 1883  |
| 2006   | 0          | 0  | 0  | 0  | 0  | 3  | 23 | 61  | 112 | 154 | 198 | 232 | 237 | 241 | 220 | 179 | 126 | 75  | 35 | 6  | 0  | 0  | 0  | 0  | 0  | 1772) |
| 2007   | 0          | 0  | 0  | 0  | 0  | 1  | 15 | 40  | 83  | 118 | 154 | 188 | 208 | 209 | 182 | 157 | 119 | 75  | 32 | 6  | 0  | 0  | 0  | 0  | 0  | 1587  |
| 2008   | 0          | 0  | 0  | 0  | 0  | 0  | 9  | 35  | 78  | 112 | 154 | 186 | 187 | 202 | 177 | 145 | 113 | 64  | 21 | 1  | 0  | 0  | 0  | 0  | 0  | 1475  |
| 2009   | 0          | 0  | 0  | 0  | 0  | 0  | 5  | 40  | 89  | 146 | 187 | 220 | 230 | 228 | 191 | 142 | 93  | 41  | 5  | 0  | 0  | 0  | 0  | 0  | 0  | 1600  |
| <b>RUSSIA<br/>РОССИЯ</b>   |            |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |       |
| <b>ОИМУАКОН      ОЙМЯКОН</b>   |            |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |       |
| 2008*  | 0          | 0  | 0  | 0  | 5  | 20 | 46 | 76  | 108 | 133 | 145 | 154 | 146 | 126 | 117 | 92  | 72  | 52  | 25 | 8  | 1  | 0  | 0  | 0  | 0  | 1326  |
| <b>EKATERINBURG      ЕКАТЕРИНБУРГ</b>                                |            |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |       |
| 2007*  | 0          | 0  | 0  | 0  | 13 | 45 | 82 | 128 | 166 | 195 | 208 | 215 | 203 | 195 | 173 | 133 | 97  | 63  | 34 | 8  | 0  | 0  | 0  | 0  | 0  | 1960  |
| <b>OMSK      ОМСК</b>  |            |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |       |
| 2007*  | 0          | 0  | 0  | 0  | 15 | 51 | 95 | 136 | 178 | 212 | 244 | 249 | 243 | 229 | 204 | 176 | 130 | 86  | 47 | 13 | 0  | 0  | 0  | 0  | 0  | 2308  |
| <b>SAMARA      САМАРА</b>  |            |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |       |
| 2005*  | 0          | 0  | 0  | 0  | 2  | 25 | 69 | 119 | 164 | 207 | 241 | 236 | 229 | 220 | 207 | 169 | 133 | 84  | 41 | 8  | 0  | 0  | 0  | 0  | 0  | 2154  |
| <b>IRKUTSK      ИРКУТСК</b>  |            |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |       |
| 2008*  | 0          | 0  | 0  | 0  | 1  | 13 | 36 | 65  | 95  | 124 | 136 | 148 | 161 | 154 | 138 | 110 | 67  | 35  | 12 | 1  | 0  | 0  | 0  | 0  | 0  | 1296  |
| <b>REGION III      SOUTH AMERICA / РЕГИОН III      ЮЖНАЯ АМЕРИКА</b> |            |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |       |
| <b>CHILE<br/>ЧИЛИ</b>  |            |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |       |
| <b>EL TOLOLO      ЭЛЬ-ТОЛОЛО</b>                                     |            |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |       |
| 1801   | 0          | 0  | 0  | 0  | 0  | 13 | 84 | 172 | 258 | 327 | 378 | 408 | 413 | 388 | 339 | 269 | 192 | 107 | 27 | 0  | 0  | 0  | 0  | 0  | 0  | 3374  |
| 1802   | 0          | 0  | 0  | 0  | 0  | 2  | 53 | 141 | 228 | 301 | 356 | 382 | 389 | 372 | 325 | 258 | 179 | 89  | 14 | 0  | 0  | 0  | 0  | 0  | 0  | 3090  |
| 1803   | 0          | 0  | 0  | 0  | 0  | 0  | 28 | 113 | 199 | 273 | 326 | 354 | 358 | 332 | 283 | 213 | 134 | 46  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 2661  |
| 1804   | 0          | 0  | 0  | 0  | 0  | 0  | 10 | 73  | 153 | 220 | 267 | 292 | 290 | 263 | 215 | 149 | 72  | 8   | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 2013  |
| 1805   | 0          | 0  | 0  | 0  | 0  | 0  | 2  | 43  | 109 | 170 | 214 | 231 | 233 | 207 | 160 | 100 | 29  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 1500  |
| 1806   | 0          | 0  | 0  | 0  | 0  | 0  | 0  | 26  | 87  | 147 | 192 | 210 | 210 | 187 | 149 | 91  | 22  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 1320  |
| 1807   | 0          | 0  | 0  | 0  | 0  | 0  | 0  | 27  | 88  | 151 | 193 | 212 | 217 | 196 | 154 | 98  | 34  | 1   | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 1370  |

\*) Corrected data  
Исправленные данные

TABLE IV (continued)

| MONTH<br>МЕСЯЦ | HOUR / ЧАС |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    | MG   |
|----------------|------------|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|------|
|                | 01         | 02 | 03 | 04 | 05 | 06 | 07  | 08  | 09  | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19 | 20 | 21 | 22 | 23 | 24 |      |
| 1808           | 0          | 0  | 0  | 0  | 0  | 0  | 3   | 55  | 130 | 196 | 244 | 267 | 268 | 247 | 193 | 140 | 65  | 4   | 0  | 0  | 0  | 0  | 0  | 0  | 1813 |
| 1809           | 0          | 0  | 0  | 0  | 0  | 0  | 25  | 100 | 180 | 251 | 294 | 320 | 313 | 285 | 238 | 168 | 90  | 16  | 0  | 0  | 0  | 0  | 0  | 0  | 2279 |
| 1810           | 0          | 0  | 0  | 0  | 0  | 7  | 65  | 142 | 218 | 280 | 318 | 340 | 329 | 298 | 249 | 187 | 107 | 33  | 0  | 0  | 0  | 0  | 0  | 0  | 2574 |
| 1811           | 0          | 0  | 0  | 0  | 0  | 29 | 113 | 199 | 276 | 337 | 378 | 398 | 404 | 375 | 318 | 244 | 158 | 69  | 6  | 0  | 0  | 0  | 0  | 0  | 3306 |
| 1812           | 0          | 0  | 0  | 0  | 0  | 32 | 116 | 205 | 284 | 349 | 398 | 422 | 420 | 393 | 341 | 271 | 188 | 101 | 22 | 0  | 0  | 0  | 0  | 0  | 3541 |
| 1901           | 0          | 0  | 0  | 0  | 0  | 7  | 70  | 156 | 242 | 318 | 374 | 406 | 413 | 397 | 355 | 293 | 212 | 125 | 40 | 0  | 0  | 0  | 0  | 0  | 3406 |
| 1902           | 0          | 0  | 0  | 0  | 0  | 40 | 128 | 214 | 288 | 347 | 382 | 391 | 378 | 329 | 275 | 194 | 105 | 24  | 0  | 0  | 0  | 0  | 0  | 0  | 3096 |
| 1903           | 0          | 0  | 0  | 0  | 0  | 18 | 97  | 182 | 259 | 312 | 340 | 354 | 332 | 290 | 227 | 144 | 59  | 3   | 0  | 0  | 0  | 0  | 0  | 0  | 2623 |
| 1904           | 0          | 0  | 0  | 0  | 0  | 5  | 64  | 143 | 209 | 258 | 287 | 291 | 271 | 229 | 161 | 88  | 15  | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 2021 |
| 1905           | 0          | 0  | 0  | 0  | 0  | 0  | 31  | 89  | 145 | 194 | 216 | 214 | 198 | 157 | 103 | 39  | 1   | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 1387 |
| 1906           | 0          | 0  | 0  | 0  | 0  | 0  | 19  | 79  | 141 | 186 | 216 | 215 | 201 | 158 | 101 | 33  | 0   | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 1347 |
| 1907           | 0          | 0  | 0  | 0  | 0  | 0  | 19  | 81  | 138 | 182 | 212 | 216 | 203 | 160 | 104 | 41  | 1   | 0   | 0  | 0  | 0  | 0  | 0  | 0  | 1358 |
| 1908           | 0          | 0  | 0  | 0  | 0  | 0  | 1   | 48  | 125 | 194 | 250 | 278 | 283 | 264 | 221 | 160 | 81  | 9   | 0  | 0  | 0  | 0  | 0  | 0  | 1914 |
| 1909           | 0          | 0  | 0  | 0  | 0  | 0  | 22  | 97  | 175 | 246 | 299 | 322 | 317 | 299 | 253 | 184 | 107 | 27  | 0  | 0  | 0  | 0  | 0  | 0  | 2348 |
| 1910           | 0          | 0  | 0  | 0  | 0  | 4  | 55  | 133 | 209 | 271 | 324 | 354 | 355 | 330 | 273 | 207 | 122 | 45  | 2  | 0  | 0  | 0  | 0  | 0  | 2654 |
| 1911           | 0          | 0  | 0  | 0  | 0  | 20 | 99  | 188 | 272 | 339 | 382 | 406 | 402 | 374 | 323 | 249 | 166 | 78  | 11 | 0  | 0  | 0  | 0  | 0  | 3308 |
| 1912           | 0          | 0  | 0  | 0  | 0  | 21 | 101 | 190 | 272 | 340 | 383 | 411 | 409 | 394 | 345 | 272 | 197 | 111 | 31 | 0  | 0  | 0  | 0  | 0  | 3477 |

REGION IV NORTH AND CENTRAL AMERICA / РЕГИОН IV СЕВЕРНАЯ И ЦЕНТРАЛЬНАЯ АМЕРИКА

USA  
США

|       | SOLAR RADIATION<br>RESEARCH LAB. |   | ИССЛ.ЛАБОРАТОРИЯ<br>ПО СОЛН.РАДИАЦИИ |   |   |    |    |     |     |     |     |     |     |     |     |     |     |    |    |   |   |   |   |   |      |      |
|-------|----------------------------------|---|--------------------------------------|---|---|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|---|---|---|---|------|------|
| 2005* | 0                                | 0 | 0                                    | 0 | 1 | 23 | 77 | 143 | 204 | 258 | 294 | 313 | 297 | 249 | 216 | 157 | 118 | 58 | 18 | 0 | 0 | 0 | 0 | 0 | 2428 |      |
| 2006* | 0                                | 0 | 0                                    | 0 | 3 | 37 | 97 | 165 | 225 | 266 | 295 | 302 | 280 | 259 | 193 | 149 | 103 | 59 | 27 | 2 | 0 | 0 | 0 | 0 | 0    | 2463 |
| 2007* | 0                                | 0 | 0                                    | 0 | 1 | 32 | 95 | 164 | 224 | 265 | 296 | 273 | 250 | 202 | 179 | 141 | 102 | 65 | 21 | 1 | 0 | 0 | 0 | 0 | 0    | 2311 |
| 2008* | 0                                | 0 | 0                                    | 0 | 0 | 11 | 62 | 131 | 193 | 252 | 279 | 291 | 264 | 219 | 161 | 117 | 77  | 39 | 8  | 0 | 0 | 0 | 0 | 0 | 0    | 2104 |
| 2009* | 0                                | 0 | 0                                    | 0 | 0 | 1  | 28 | 83  | 146 | 202 | 240 | 247 | 251 | 226 | 182 | 133 | 72  | 24 | 1  | 0 | 0 | 0 | 0 | 0 | 0    | 1834 |
| 2010* | 0                                | 0 | 0                                    | 0 | 0 | 0  | 6  | 47  | 105 | 155 | 196 | 212 | 211 | 190 | 156 | 105 | 48  | 4  | 0  | 0 | 0 | 0 | 0 | 0 | 0    | 1435 |
| 2011* | 0                                | 0 | 0                                    | 0 | 0 | 0  | 21 | 71  | 122 | 163 | 185 | 186 | 164 | 126 | 72  | 16  | 0   | 0  | 0  | 0 | 0 | 0 | 0 | 0 | 0    | 1125 |
| 2012* | 0                                | 0 | 0                                    | 0 | 0 | 0  | 0  | 8   | 47  | 90  | 126 | 142 | 138 | 125 | 92  | 47  | 7   | 0  | 0  | 0 | 0 | 0 | 0 | 0 | 0    | 822  |

REGION V SOUTH-WEST PACIFIC / РЕГИОН V ЮГО-ЗАПАД ТИХОГО ОКЕАНА

AUSTRALIA  
АВСТРАЛИЯ

|  | COCOS ISLAND<br>ARPT |   | КОКОСОВЫЕ О-ВА,<br>АЭР. |   |   |    |    |     |     |     |     |     |     |     |     |     |     |    |    |   |   |   |   |   |   |       |       |
|--|----------------------|---|-------------------------|---|---|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|---|---|---|---|---|-------|-------|
| 2010                                     | 0                    | 0 | 0                       | 0 | 0 | 1  | 33 | 103 | 173 | 240 | 305 | 321 | 313 | 286 | 233 | 171 | 94  | 29 | 1  | 0 | 0 | 0 | 0 | 0 | 0 | 2357) |       |
| 2011                                     | 0                    | 0 | 0                       | 0 | 0 | 2  | 39 | 103 | 173 | -   | 295 | 309 | 319 | 301 | 241 | 180 | 109 | 37 | 2  | 0 | 0 | 0 | 0 | 0 | 0 | -     |       |
| 2012                                     | 0                    | 0 | 0                       | 0 | 0 | 3  | 40 | 103 | 169 | -   | 303 | 307 | 319 | 291 | 234 | 173 | 106 | 39 | 2  | 0 | 0 | 0 | 0 | 0 | 0 | -     |       |
| DARWIN ARPT ДАРВИН, АЭР.                 |                      |   |                         |   |   |    |    |     |     |     |     |     |     |     |     |     |     |    |    |   |   |   |   |   |   |       |       |
| 2009                                     | 0                    | 0 | 0                       | 0 | 0 | 0  | 25 | 100 | 176 | 241 | 279 | 289 | 310 | 294 | 252 | 185 | 104 | 26 | 0  | 0 | 0 | 0 | 0 | 0 | 0 | 0     | 2281  |
| 2010                                     | 0                    | 0 | 0                       | 0 | 0 | 1  | 33 | 106 | 184 | 242 | 285 | 302 | 295 | 287 | 235 | 188 | 111 | 34 | 1  | 0 | 0 | 0 | 0 | 0 | 0 | 0     | 2303  |
| 2011                                     | 0                    | 0 | 0                       | 0 | 0 | 2  | 38 | 112 | 175 | 234 | 280 | 283 | 297 | 289 | 235 | 165 | 96  | 36 | 2  | 0 | 0 | 0 | 0 | 0 | 0 | 0     | 2244  |
| 2012                                     | 0                    | 0 | 0                       | 0 | 0 | 3  | 38 | 90  | 143 | 187 | 217 | 233 | 229 | 208 | 193 | 132 | 64  | 23 | 1  | 0 | 0 | 0 | 0 | 0 | 0 | 0     | 1761  |
| BROOME ARPT БРУМ, АЭР.                   |                      |   |                         |   |   |    |    |     |     |     |     |     |     |     |     |     |     |    |    |   |   |   |   |   |   |       |       |
| 2009                                     | 0                    | 0 | 0                       | 0 | 0 | 0  | 26 | 102 | 191 | 264 | 320 | 350 | 351 | 321 | 265 | 194 | 109 | 27 | 0  | 0 | 0 | 0 | 0 | 0 | 0 | 0     | 2518  |
| 2010                                     | 0                    | 0 | 0                       | 0 | 0 | 2  | 42 | 121 | 204 | 266 | 326 | 369 | 366 | 345 | 288 | 213 | 129 | 43 | 1  | 0 | 0 | 0 | 0 | 0 | 0 | 0     | 2721) |
| 2011                                     | 0                    | 0 | 0                       | 0 | 0 | 4  | 44 | 104 | 182 | 257 | 313 | 348 | 356 | 324 | 278 | 210 | 126 | 50 | 4  | 0 | 0 | 0 | 0 | 0 | 0 | 0     | 2600  |
| 2012                                     | 0                    | 0 | 0                       | 0 | 0 | 6  | 55 | 117 | 180 | 240 | 286 | 320 | 321 | 290 | 234 | 182 | 113 | 51 | 6  | 0 | 0 | 0 | 0 | 0 | 0 | 0     | 2400  |
| TOWNSVILLE ARPT ТАУНСВИЛЛ, АЭР.          |                      |   |                         |   |   |    |    |     |     |     |     |     |     |     |     |     |     |    |    |   |   |   |   |   |   |       |       |
| 2009                                     | 0                    | 0 | 0                       | 0 | 0 | 0  | 21 | 91  | 168 | 245 | 294 | 321 | 331 | 301 | 258 | 181 | 99  | 24 | 0  | 0 | 0 | 0 | 0 | 0 | 0 | 0     | 2346) |
| 2010                                     | 0                    | 0 | 0                       | 0 | 0 | 2  | 43 | 120 | 193 | 276 | 316 | 348 | 357 | 336 | 283 | 208 | 121 | 39 | 1  | 0 | 0 | 0 | 0 | 0 | 0 | 0     | 2665  |
| 2011                                     | 0                    | 0 | 0                       | 0 | 0 | 5  | 52 | 123 | 217 | 284 | 337 | 357 | 362 | 343 | 287 | 216 | 136 | 54 | 4  | 0 | 0 | 0 | 0 | 0 | 0 | 0     | 2778  |
| 2012                                     | 0                    | 0 | 0                       | 0 | 0 | 7  | 48 | 108 | 177 | 248 | 299 | 315 | 325 | 294 | 277 | 211 | 117 | 49 | 5  | 0 | 0 | 0 | 0 | 0 | 0 | 0     | 2481  |
| LEARMONTH ARPT ЛИРМАНТ, АЭР.             |                      |   |                         |   |   |    |    |     |     |     |     |     |     |     |     |     |     |    |    |   |   |   |   |   |   |       |       |
| 2009                                     | 0                    | 0 | 0                       | 0 | 0 | 0  | 27 | 104 | 184 | 258 | 306 | 338 | 339 | 313 | 264 | 195 | 110 | 28 | 0  | 0 | 0 | 0 | 0 | 0 | 0 | 0     | 2465  |
| 2010                                     | 0                    | 0 | 0                       | 0 | 0 | 2  | 49 | 134 | 214 | 288 | 342 | 368 | 362 | 335 | 292 | 223 | 133 | 46 | 2  | 0 | 0 | 0 | 0 | 0 | 0 | 0     | 2789  |
| 2011                                     | 0                    | 0 | 0                       | 0 | 0 | 8  | 68 | 154 | 237 | 309 | 358 | 385 | 387 | 361 | 307 | 237 | 156 | 70 | 7  | 0 | 0 | 0 | 0 | 0 | 0 | 0     | 3045  |
| 2012                                     | 0                    | 0 | 0                       | 0 | 0 | 11 | 74 | 159 | 241 | 309 | 346 | 375 | 375 | 353 | 304 | 231 | 153 | 70 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0     | 3012  |
| ROCKHAMPTON ARPT РОКГЕМПТОН, АЭР.        |                      |   |                         |   |   |    |    |     |     |     |     |     |     |     |     |     |     |    |    |   |   |   |   |   |   |       |       |
| 2009                                     | 0                    | 0 | 0                       | 0 | 0 | 0  | 20 | 87  | 161 | 203 | 230 | 267 | 264 | 253 | 215 | 157 | 85  | 21 | 0  | 0 | 0 | 0 | 0 | 0 | 0 | 0     | 1938) |
| 2010                                     | 0                    | 0 | 0                       | 0 | 0 | 2  | 38 | 114 | 186 | 235 | 303 | 316 | 319 | 289 | 232 | 197 | 108 | 40 | 2  | 0 | 0 | 0 | 0 | 0 | 0 | 0     | 2381  |
| 2011                                     | 0                    | 0 | 0                       | 0 | 0 | 7  | 58 | 131 | 208 | 272 | 321 | 344 | 347 | 322 | 279 | 224 | 145 | 62 | 8  | 0 | 0 | 0 | 0 | 0 | 0 | 0     | 2748) |
| 2012                                     | 0                    | 0 | 0                       | 0 | 0 | 9  | 57 | 122 | 185 | 227 | 278 | 306 | 297 | 279 | 248 | 193 | 137 | 60 | 8  | 0 | 0 | 0 | 0 | 0 | 0 | 0     | 2394) |
| ALICE SPRINGS ARPT АЛИС-СПРИНГС,<br>АЭР. |                      |   |                         |   |   |    |    |     |     |     |     |     |     |     |     |     |     |    |    |   |   |   |   |   |   |       |       |
| 2009                                     | 0                    | 0 | 0                       | 0 | 0 | 0  | 28 | 104 | 190 | 263 | 304 | 329 | 322 | 301 | 259 | 186 | 98  | 23 | 0  | 0 | 0 | 0 | 0 | 0 | 0 | 0     | 2408  |
| 2010                                     | 0                    | 0 | 0                       | 0 | 0 | 3  | 49 | 131 | 212 | 279 | 331 | 354 | 345 | 318 | 262 | 203 | 119 | 43 | 2  | 0 | 0 | 0 | 0 | 0 | 0 | 0     | 2651) |
| 2011                                     | 0                    | 0 | 0                       | 0 | 0 | 10 | 69 | 153 | 234 | 293 | 348 | 369 | 359 | 343 | 295 | 223 | 141 | 63 | 7  | 0 | 0 | 0 | 0 | 0 | 0 | 0     | 2906  |
| 2012                                     | 0                    | 0 | 0                       | 0 | 0 | 10 | 62 | 129 | 185 | 248 | 288 | 313 | 293 | 262 | 226 | 172 | 106 | 50 | 8  | 0 | 0 | 0 | 0 | 0 | 0 | 0     | 2352  |
| GERALDTON ARPT ДЖЕРАЛДТОН, АЭР.          |                      |   |                         |   |   |    |    |     |     |     |     |     |     |     |     |     |     |    |    |   |   |   |   |   |   |       |       |
| 2009                                     | 0                    | 0 | 0                       | 0 | 0 | 0  | 24 | 87  | 157 | 216 | 265 | 286 | 288 | 270 | 226 | 160 | 90  | 21 | 0  | 0 | 0 | 0 | 0 | 0 | 0 | 0     | 2091  |
| 2010                                     | 0                    | 0 | 0                       | 0 | 0 | 4  | 47 | 113 | 190 | 261 | 299 | 325 | 327 | 297 | 258 | 198 | 119 | 44 | 3  | 0 | 0 | 0 | 0 | 0 | 0 | 0     | 2484  |
| 2011                                     | 0                    | 0 | 0                       | 0 | 0 | 13 | 66 | 139 | 211 | 271 | 330 | 351 | 350 | 323 | 273 | 215 | 145 | 67 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0     | 2766  |
| 2012                                     | 0                    | 0 | 0                       | 0 | 0 | 20 | 86 | 169 | 248 | 311 | 361 | 384 | 388 | 365 | 311 | 247 | 166 | 86 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0     | 3161  |

\*) Corrected data  
Исправленные данные

TABLE IV (continued)

| MONTH<br>МЕСЯЦ                                       | HOUR / ЧАС |    |    |    |    |     |     |      |      |      |      |      |      |      |      |      |      |     |     |    |    |    |    |    | MG    |
|--|------------|----|----|----|----|-----|-----|------|------|------|------|------|------|------|------|------|------|-----|-----|----|----|----|----|----|-------|
|  | 01         | 02 | 03 | 04 | 05 | 06  | 07  | 08   | 09   | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18  | 19  | 20 | 21 | 22 | 23 | 24 |       |
| <b>KALGOORLIE ARPT КАЛГУРЛИ, АЭР.</b>                |            |    |    |    |    |     |     |      |      |      |      |      |      |      |      |      |      |     |     |    |    |    |    |    |       |
| 2009   | 0          | 0  | 0  | 0  | 0  | 0   | 20  | 78   | 147  | 201  | 250  | 273  | 281  | 249  | 203  | 146  | 83   | 21  | 0   | 0  | 0  | 0  | 0  | 0  | 1952  |
| 2010   | 0          | 0  | 0  | 0  | 0  | 4   | 48  | 115  | 187  | 242  | 296  | 322  | 323  | 304  | 256  | 197  | 117  | 44  | 3   | 0  | 0  | 0  | 0  | 0  | 2459  |
| 2011   | 0          | 0  | 0  | 0  | 0  | 15  | 79  | 157  | 237  | 301  | 330  | 357  | 345  | 319  | 277  | 216  | 144  | 75  | 14  | 0  | 0  | 0  | 0  | 0  | 2865  |
| 2012   | 0          | 0  | 0  | 0  | 0  | 25  | 92  | 166  | 231  | 287  | 326  | 350  | 343  | 322  | 281  | 228  | 163  | 85  | 23  | 0  | 0  | 0  | 0  | 0  | 2923  |
| <b>ADELAIDE ARPT АДЕЛАИДА, АЭР.</b>                  |            |    |    |    |    |     |     |      |      |      |      |      |      |      |      |      |      |     |     |    |    |    |    |    |       |
| 2009   | 0          | 0  | 0  | 0  | 0  | 14  | 60  | 114  | 174  | 218  | 240  | 239  | 215  | 168  | 115  | 59   | 13   | 0   | 0   | 0  | 0  | 0  | 0  | 0  | 1566) |
| 2010   | 0          | 0  | 0  | 0  | 0  | 4   | 33  | 83   | 140  | 189  | 229  | 251  | 235  | 221  | 185  | 146  | 91   | 35  | 3   | 0  | 0  | 0  | 0  | 0  | 1844  |
| 2011   | 0          | 0  | 0  | 0  | 0  | 16  | 70  | 140  | 195  | 253  | 305  | 323  | 326  | 297  | 250  | 195  | 134  | 70  | 14  | 0  | 0  | 0  | 0  | 0  | 2592  |
| 2012   | 0          | 0  | 0  | 0  | 1) | 22) | 71) | 124) | 185) | 255) | 308) | 345) | 344) | 340  | 280  | 221  | 158  | 88  | 26  | 1  | 0  | 0  | 0  | 0) | 2727) |
| <b>WAGGA WAGGA УОГГА-УОГГА</b>                       |            |    |    |    |    |     |     |      |      |      |      |      |      |      |      |      |      |     |     |    |    |    |    |    |       |
| 2009   | 0          | 0  | 0  | 0  | 0  | 0)  | -   | 58)  | 110  | 164  | 206  | 239  | 241  | 223  | 180  | 132  | 72   | 15  | 0   | 0  | 0  | 0  | 0  | 0  | -     |
| 2010   | 0          | 0  | 0  | 0  | 0  | 4   | 37  | 94   | 157  | 213  | 243  | 257  | 256  | 223  | 188  | 143  | 82   | 35  | 3   | 0  | 0  | 0  | 0  | 0  | 1826) |
| 2011   | 0          | 0  | 0  | 0  | 0  | 18  | 78  | 149  | 213  | 269  | 299  | 321  | 331  | 299  | 259  | 212  | 148  | 72  | 17  | 0  | 0  | 0  | 0  | 0  | 2743  |
| 2012   | 0)         | 0) | 0) | 0) | 1) | 30) | 97) | 172) | 246) | 286) | 329) | 334) | 331) | 311) | 261) | 201) | 138) | 82) | 26) | 1) | 0) | 0) | 0) | 0) | 2833) |
| <b>MELBOURNE ARPT МЕЛЬБУРН, АЭР.</b>                 |            |    |    |    |    |     |     |      |      |      |      |      |      |      |      |      |      |     |     |    |    |    |    |    |       |
| 2009   | 0          | 0  | 0  | 0  | 0  | 13  | 56  | 108  | 157  | 201  | 225  | 219  | 208  | 164  | 113  | 57   | 14   | 0   | 0   | 0  | 0  | 0  | 0  | 0  | 1521  |
| 2010   | 0          | 0  | 0  | 0  | 0  | 4   | 35  | 81   | 131  | 176  | 196  | 210  | 197  | 188  | 147  | 107  | 69   | 27  | 3   | 0  | 0  | 0  | 0  | 0  | 1572  |
| 2011   | 0          | 0  | 0  | 0  | 0  | 18  | 62  | 124  | 178  | 219  | 258  | 286  | 279  | 261  | 221  | 172  | 116  | 61  | 16  | 0  | 0  | 0  | 0  | 0  | 2311  |
| 2012   | 0          | 0  | 0  | 0  | 2  | 31  | 83  | 141  | 197  | 227  | 277  | 295  | 297  | 265  | 222  | 187  | 139  | 81  | 26  | 2  | 0  | 0  | 0  | 0  | 2462  |
| <b>CAPE GRIM КЕЙП-ГРИМ</b>                           |            |    |    |    |    |     |     |      |      |      |      |      |      |      |      |      |      |     |     |    |    |    |    |    |       |
| 2009   | 0          | 0  | 0  | 0  | 0  | 11  | 47  | 92   | 126  | 156  | 185  | 189  | 181  | 133  | 91   | 46   | 11   | 0   | 0   | 0  | 0  | 0  | 0  | 0  | 1273  |
| 2010   | 0          | 0  | 0  | 0  | 0  | 5   | 38  | 80   | 131  | 180  | 214  | 241  | 248  | 232  | 196  | 145  | 91   | 36  | 5   | 0  | 0  | 0  | 0  | 0  | 1826  |
| 2011   | 0          | 0  | 0  | 0  | 1  | 20  | 59  | 117  | 167  | 226  | 279  | 290  | 305  | 280  | 244  | 186  | 132  | 72  | 22  | 1  | 0  | 0  | 0  | 0  | 2400  |
| 2012   | 0          | 0  | 0  | 0  | 3  | 28  | 72  | 125  | 184  | 222  | 248  | 258  | 243  | 243  | 215  | 181  | 129  | 73  | 29  | 3  | 0  | 0  | 0  | 0  | 2255  |
| <b>INDONESIA ИНДОНЕЗИЯ</b>                           |            |    |    |    |    |     |     |      |      |      |      |      |      |      |      |      |      |     |     |    |    |    |    |    |       |
| <b>BUKIT KOTOTABANG БУКИТ КОТОТАБАНГ</b>             |            |    |    |    |    |     |     |      |      |      |      |      |      |      |      |      |      |     |     |    |    |    |    |    |       |
| 1911   | 0          | 0  | 0  | 0  | 0  | 0   | 10  | 45   | 101  | 159  | 191  | 203  | 188  | 165  | 136  | 81)  | 36)  | 9   | 0   | 0  | 0  | 0  | 0  | 0  | 1349  |
| 1912   | 0          | 0  | 0  | 0  | 0  | 0   | 12  | 44)  | 93   | 133  | 156  | 167  | 158  | 149  | 109  | 82   | 40   | 10  | 0   | 0  | 0  | 0  | 0  | 0  | 1148  |
| 2001   | 0          | 0  | 0  | 0  | 0  | 0   | 14  | 56   | 96   | 133  | 174  | 195  | 204  | 182  | 143  | 85   | 45   | 12) | 0   | 0  | 0  | 0  | 0  | 0  | 1288  |
| 2002   | 0          | 0  | 0  | 0  | 0  | 0   | 12  | 53   | 111  | 159  | 196  | 224  | 223  | 199  | 162  | 107  | 53)  | 13  | 0   | 0  | 0  | 0  | 0  | 0  | 1487  |
| 2003   | 0          | 0  | 0  | 0  | 0  | 0   | -   | 73   | 146) | 207) | -    | -    | -    | -    | -    | -    | -    | 12) | 0   | 0  | 0  | 0  | 0  | 0  | -     |
| <b>REGION VI EUROPE / РЕГИОН VI ЕВРОПА</b>           |            |    |    |    |    |     |     |      |      |      |      |      |      |      |      |      |      |     |     |    |    |    |    |    |       |
| <b>AZORES АЗОРСКИЕ О-ВА</b>                          |            |    |    |    |    |     |     |      |      |      |      |      |      |      |      |      |      |     |     |    |    |    |    |    |       |
| <b>ANGRA DO HEROISMO OBS. АНГРА-ДУ-ЭРОИЖМУ, ОБС.</b> |            |    |    |    |    |     |     |      |      |      |      |      |      |      |      |      |      |     |     |    |    |    |    |    |       |
| 2001   | 0          | 0  | 0  | 0  | 0  | 0   | 0   | 3    | 26   | 55   | 89   | 105  | 112  | 104  | 87   | 53   | 16   | 0   | 0   | 0  | 0  | 0  | 0  | 0  | 651   |
| 2002   | 0          | 0  | 0  | 0  | 0  | 0   | 15  | 53   | 102  | 135  | 147  | 137  | 147  | 129  | 92   | 42   | 6    | 0   | 0   | 0  | 0  | 0  | 0  | 0  | 1005  |
| 2003   | 0          | 0  | 0  | 0  | 0  | 0   | 6   | 38   | 87   | 130  | 170  | 185  | 213  | 199  | 172  | 137  | 88   | 32  | 1   | 0  | 0  | 0  | 0  | 0  | 1459  |
| <b>PICO ARPT ПИКО, АЭР.</b>                          |            |    |    |    |    |     |     |      |      |      |      |      |      |      |      |      |      |     |     |    |    |    |    |    |       |
| 2001   | 0          | 0  | 0  | 0  | 0  | 0   | 4   | 33   | 66   | 96   | 119  | 133  | 122  | 89   | 54   | 19   | 0    | 0   | 0   | 0  | 0  | 0  | 0  | 0  | 736   |
| 2002   | 0          | 0  | 0  | 0  | 0  | 1   | 18  | 60   | 103  | 142  | 153  | 157  | 151  | 121  | 83   | 40   | 7    | 0   | 0   | 0  | 0  | 0  | 0  | 0  | 1035  |
| 2003   | 0          | 0  | 0  | 0  | 0  | 7   | 38  | 91   | 135  | 176  | 205  | 193  | 176  | 155  | 116  | 67   | 25   | 2   | 0   | 0  | 0  | 0  | 0  | 0  | 1381  |



TABLE V. MONTHLY MEANS OF HOURLY TOTALS OF DIFFUSE RADIATION ( $J\ cm^{-2}$ )ТАБЛИЦА V. СРЕДНИЕ ЗА МЕСЯЦ ЧАСОВЫЕ СУММЫ РАССЯННОЙ РАДИАЦИИ ( $Дж\cdot см^{-2}$ )

| MONTH<br>МЕСЯЦ | HOUR / ЧАС                            |    |    |    |    |    |     |     |     |     |      |      |                            |      |      |     |               |     |     |    |    |    |    |       | MD  |
|----------------|---------------------------------------|----|----|----|----|----|-----|-----|-----|-----|------|------|----------------------------|------|------|-----|---------------|-----|-----|----|----|----|----|-------|-----|
|                | 01                                    | 02 | 03 | 04 | 05 | 06 | 07  | 08  | 09  | 10  | 11   | 12   | 13                         | 14   | 15   | 16  | 17            | 18  | 19  | 20 | 21 | 22 | 23 | 24    |     |
|                | REGION I                              |    |    |    |    |    |     |     |     |     |      |      | AFRICA / РЕГИОН I          |      |      |     | АФРИКА        |     |     |    |    |    |    |       |     |
|                | MADEIRA<br>МАДЕЙРА                    |    |    |    |    |    |     |     |     |     |      |      |                            |      |      |     |               |     |     |    |    |    |    |       |     |
|                | FUNCHAL OBS.                          |    |    |    |    |    |     |     |     |     |      |      | ФУНШАЛ, ОБС.               |      |      |     |               |     |     |    |    |    |    |       |     |
| 2001           | 0                                     | 0  | 0  | 0  | 0  | 0  | 0   | 0   | 0   | 8   | 26   | 39   | 49                         | 60   | 63   | 60  | 51            | 35  | 19  | 2  | 0  | 0  | 0  | 0     | 412 |
| 2002           | 0                                     | 0  | 0  | 0  | 0  | 0  | 0   | 2   | 18  | 36  | 52   | 61   | 79                         | 77   | 62   | 56  | 47            | 26  | 5   | 0  | 0  | 0  | 0  | 512)  |     |
| 2003           | 0                                     | 0  | 0  | 0  | 0  | 0  | 5   | 22  | 39  | 57  | 73   | 73   | 69                         | 72   | 60   | 49  | 32            | 13  | 1   | 0  | 0  | 0  | 0  | 565   |     |
|                | REGION II                             |    |    |    |    |    |     |     |     |     |      |      | ASIA / РЕГИОН II           |      |      |     | АЗИЯ          |     |     |    |    |    |    |       |     |
|                | REPUBLIC OF KOREA<br>РЕСПУБЛИКА КОРЕЯ |    |    |    |    |    |     |     |     |     |      |      |                            |      |      |     |               |     |     |    |    |    |    |       |     |
|                | ANMYEON-DO                            |    |    |    |    |    |     |     |     |     |      |      | АНМЕНДО                    |      |      |     |               |     |     |    |    |    |    |       |     |
| 1901           | 0                                     | 0  | 0  | 0  | 0  | 0  | 0   | 0   | 0   | 0   | 0    | 39   | 52                         | 59   | 63   | 62  | 53            | 40  | 26  | 6  | 0  | 0  | 0  | -     |     |
| 1902           | 0                                     | 0  | 0  | 0  | 0  | 0  | 0   | 3   | 26  | 50  | 73   | 82   | 86                         | 85   | 76   | 63  | 44            | 18  | 1   | 0  | 0  | 0  | 0  | 606   |     |
| 1903           | 0                                     | 0  | 0  | 0  | 0  | 0  | 1   | 19) | 47  | 69  | 86   | 102  | 105                        | 106  | 90   | 72  | 54            | 30  | 5   | 0  | 0  | 0  | 0  | 808)  |     |
| 1904           | 0                                     | 0  | 0  | 0  | 0  | 0  | 9   | 33  | 57  | 80  | 88   | 97   | 108                        | 105  | 90   | 82  | 62            | 39  | 14  | 0  | 0  | 0  | 0  | 863   |     |
| 1905           | 0                                     | 0  | 0  | 0  | 0  | 2  | 22  | 48  | 69  | 82  | 92   | 96   | 98                         | 94   | 88   | 75  | 59            | 44  | 23  | 3  | 0  | 0  | 0  | 896   |     |
| 1906           | 0                                     | 0  | 0  | 0  | 0  | 4  | 22  | 49  | 72  | 93  | 111  | 116  | 118                        | 109  | 102  | 92  | 81            | 58  | 34  | 7  | 0  | 0  | 0  | 1062  |     |
| 1907           | 0                                     | 0  | 0  | 0  | 0  | 2  | 16  | 37  | 63  | 90  | 98   | 114  | 121                        | 122  | 115  | 110 | 87            | 61  | 31  | 6  | 0  | 0  | 0  | 1037  |     |
| 1908           | 0                                     | 0  | 0  | 0  | 0  | 0  | 13  | 39  | 70  | 87  | 101  | 111  | 108                        | 111  | 103  | 88  | 69            | 44  | 21  | 2  | 0  | 0  | 0  | 967   |     |
| 1909           | 0)                                    | 0) | 0) | 0) | 0) | 0) | 4)  | 27) | 52) | 76) | 87)  | 101) | 98)                        | 85)  | 79)  | 64) | 47)           | 26) | 5)  | 0) | 0) | 0) | 0) | 751)  |     |
| 1910           | 0                                     | 0  | 0  | 0  | 0  | 0  | 1   | -   | 41  | 59  | 68   | 75   | 75                         | 80   | 71   | 59  | 35            | 10  | 0   | 0  | 0  | 0  | 0  | -     |     |
| 1911           | 0                                     | 0  | 0  | 0  | 0  | 0  | 0   | 5   | -   | 41  | 53   | 63   | 64                         | 60   | 49   | 36  | 19            | 2   | 0   | 0  | 0  | 0  | 0  | -     |     |
| 1912           | 0                                     | 0  | 0  | 0  | 0  | 0  | 0   | 1   | -   | 34  | 45   | 56   | 60                         | 56   | 47   | 33  | 15            | 1   | 0   | 0  | 0  | 0  | 0  | -     |     |
| 2001           | 0                                     | 0  | 0  | 0  | 0  | 0  | 0   | 0   | 11) | 35  | 50   | 64   | 70                         | 70   | 62   | 44  | 26            | 5   | 0   | 0  | 0  | 0  | 0  | 449)  |     |
| 2002           | 0                                     | 0  | 0  | 0  | 0  | 0  | 0   | 3   | 24) | 41  | 56   | 72   | 77                         | 78   | 71   | 59  | 40            | 16  | 1   | 0  | 0  | 0  | 0  | 561)  |     |
| 2003           | 0                                     | 0  | 0  | 0  | 0  | 0  | 1   | -   | 37  | 60  | 71   | 81   | 80                         | 79   | 75   | 67  | 52            | 32  | 6   | 0  | 0  | 0  | 0  | -     |     |
| 2004           | 0                                     | 0  | 0  | 0  | 0  | 0  | 11  | 35  | 60  | 79  | 88   | 91   | 96                         | 94   | 83   | 77  | 62            | 41  | 16  | 0  | 0  | 0  | 0  | 830   |     |
| 2005           | 0                                     | 0  | 0  | 0  | 0  | 2  | 18  | 40  | 65  | 85  | 101  | 112  | 128                        | 119  | 107  | 91  | 63            | 42  | 21  | 3  | 0  | 0  | 0  | 982   |     |
| 2006           | 0)                                    | 0) | 0) | 0) | 0) | 3) | 20) | 47) | 74) | 88) | 107) | 116) | 119)                       | 123) | 120) | 92) | 72)           | 50) | 27) | 6) | 0) | 0) | 0) | 1071) |     |
|                | RUSSIA<br>РОССИЯ                      |    |    |    |    |    |     |     |     |     |      |      |                            |      |      |     |               |     |     |    |    |    |    |       |     |
|                | OIMYAKON                              |    |    |    |    |    |     |     |     |     |      |      | ОЙМЯКОН                    |      |      |     |               |     |     |    |    |    |    |       |     |
| 2008*          | 0                                     | 0  | 0  | 0  | 4  | 15 | 29  | 42  | 56  | 67  | 75   | 85   | 85                         | 80   | 71   | 59  | 49            | 37  | 19  | 7  | 1  | 0  | 0  | 782   |     |
|                | EKATERINBURG                          |    |    |    |    |    |     |     |     |     |      |      | ЕКАТЕРИНБУРГ               |      |      |     |               |     |     |    |    |    |    |       |     |
| 2007*          | 0                                     | 0  | 0  | 0  | 9  | 20 | 31  | 40  | 49  | 54  | 63   | 75   | 78                         | 80   | 83   | 69  | 50            | 33  | 20  | 6  | 0  | 0  | 0  | 759   |     |
|                | OMSK                                  |    |    |    |    |    |     |     |     |     |      |      | ОМСК                       |      |      |     |               |     |     |    |    |    |    |       |     |
| 2007*          | 0                                     | 0  | 0  | 0  | 11 | 23 | 33  | 43  | 57  | 67  | 77   | 78   | 77                         | 76   | 69   | 61  | 47            | 35  | 22  | 8  | 0  | 0  | 0  | 786   |     |
|                | SAMARA                                |    |    |    |    |    |     |     |     |     |      |      | САМАРА                     |      |      |     |               |     |     |    |    |    |    |       |     |
| 2005*          | 0                                     | 0  | 0  | 0  | 2  | 13 | 27  | 40  | 55  | 66  | 68   | 72   | 74                         | 73   | 67   | 58  | 47            | 33  | 20  | 6  | 0  | 0  | 0  | 722   |     |
|                | IRKUTSK                               |    |    |    |    |    |     |     |     |     |      |      | ИРКУТСК                    |      |      |     |               |     |     |    |    |    |    |       |     |
| 2008*          | 0                                     | 0  | 0  | 0  | 1  | 11 | 25  | 37  | 50  | 66  | 74   | 77   | 75                         | 68   | 61   | 53  | 35            | 23  | 11  | 1  | 0  | 0  | 0  | 668   |     |
|                | REGION III                            |    |    |    |    |    |     |     |     |     |      |      | SOUTH AMERICA / РЕГИОН III |      |      |     | ЮЖНАЯ АМЕРИКА |     |     |    |    |    |    |       |     |
|                | CHILE<br>ЧИЛИ                         |    |    |    |    |    |     |     |     |     |      |      |                            |      |      |     |               |     |     |    |    |    |    |       |     |
|                | EL TOLOLO                             |    |    |    |    |    |     |     |     |     |      |      | ЭЛЬ-ТОЛОЛО                 |      |      |     |               |     |     |    |    |    |    |       |     |
| 1801           | 0                                     | 0  | 0  | 0  | 0  | 4  | 14  | 20  | 23  | 26  | 26   | 23   | 25                         | 28   | 30   | 23  | 21            | 15  | 6   | 0  | 0  | 0  | 0  | 284   |     |
| 1802           | 0                                     | 0  | 0  | 0  | 0  | 1  | 10  | 15  | 17  | 19  | 22   | 25   | 24                         | 23   | 25   | 22  | 18            | 13  | 4   | 0  | 0  | 0  | 0  | 238   |     |
| 1803           | 0                                     | 0  | 0  | 0  | 0  | 0  | 6   | 12  | 15  | 18  | 17   | 19   | 18                         | 20   | 19   | 17  | 14            | 7   | 0   | 0  | 0  | 0  | 0  | 181   |     |
| 1804           | 0                                     | 0  | 0  | 0  | 0  | 0  | 3   | 13  | 20  | 21  | 24   | 28   | 26                         | 26   | 23   | 19  | 11            | 2   | 0   | 0  | 0  | 0  | 0  | 217   |     |
| 1805           | 0                                     | 0  | 0  | 0  | 0  | 0  | 1   | 11  | 20  | 27  | 30   | 35   | 37                         | 32   | 27   | 21  | 8             | 0   | 0   | 0  | 0  | 0  | 0  | 237   |     |
| 1806           | 0                                     | 0  | 0  | 0  | 0  | 0  | 6   | 14  | 21  | 26  | 28   | 27   | 26                         | 20   | 16   | 7   | 0             | 0   | 0   | 0  | 0  | 0  | 0  | 192   |     |
| 1807           | 0                                     | 0  | 0  | 0  | 0  | 0  | 7   | 19  | 27  | 33  | 31   | 30   | 28                         | 23   | 17   | 8   | 1             | 0   | 0   | 0  | 0  | 0  | 0  | 223   |     |
| 1808           | 0                                     | 0  | 0  | 0  | 0  | 1  | 12  | 21  | 26  | 29  | 33   | 34   | 34                         | 31   | 20   | 11  | 2             | 0   | 0   | 0  | 0  | 0  | 0  | 255   |     |
| 1809           | 0                                     | 0  | 0  | 0  | 0  | 8  | 22  | 32  | 36  | 40  | 43   | 38   | 38                         | 38   | 30   | 19  | 5             | 0   | 0   | 0  | 0  | 0  | 0  | 353   |     |
| 1810           | 0                                     | 0  | 0  | 0  | 0  | 3  | 14  | 24  | 34  | 42  | 47   | 50   | 47                         | 43   | 44   | 40  | 23            | 9   | 0   | 0  | 0  | 0  | 0  | 419   |     |
| 1811           | 0                                     | 0  | 0  | 0  | 0  | 6  | 11  | 14  | 17  | 24  | 26   | 25   | 19                         | 17   | 21   | 16  | 15            | 9   | 2   | 0  | 0  | 0  | 0  | 221   |     |
| 1812           | 0                                     | 0  | 0  | 0  | 0  | 7  | 13  | 17  | 19  | 22  | 21   | 20   | 18                         | 19   | 22   | 18  | 17            | 12  | 5   | 0  | 0  | 0  | 0  | 228   |     |
| 1901           | 0                                     | 0  | 0  | 0  | 0  | 4  | 15  | 20  | 22  | 22  | 23   | 22   | 23                         | 22   | 26   | 22  | 20            | 15  | 7   | 0  | 0  | 0  | 0  | 265   |     |
| 1902           | 0                                     | 0  | 0  | 0  | 0  | 1  | 10  | 15  | 19  | 21  | 22   | 23   | 25                         | 24   | 25   | 21  | 17            | 12  | 4   | 0  | 0  | 0  | 0  | 237   |     |
| 1903           | 0                                     | 0  | 0  | 0  | 0  | 6  | 14  | 17  | 20  | 22  | 22   | 24   | 22                         | 21   | 19   | 16  | 7             | 0   | 0   | 0  | 0  | 0  | 0  | 210   |     |
| 1904           | 0                                     | 0  | 0  | 0  | 0  | 3  | 12  | 18  | 22  | 26  | 27   | 27   | 25                         | 22   | 20   | 12  | 3             | 0   | 0   | 0  | 0  | 0  | 0  | 214   |     |
| 1905           | 0                                     | 0  | 0  | 0  | 0  | 1  | 13  | 29  | 43  | 49  | 45   | 48   | 43                         | 34   | 26   | 10  | 0             | 0   | 0   | 0  | 0  | 0  | 0  | 341   |     |

\*) Corrected data  
Исправленные данные

TABLE V (continued)

| MONTH<br>МЕСЯЦ   | HOUR / ЧАС                                   |    |    |    |    |     |     |     |     |     |     |     |   |     |     |     |    |    |    |    |    |    |    |    | MD    |
|------------------|--|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|---|-----|-----|-----|----|----|----|----|----|----|----|----|-------|
|                  | 01   | 02 | 03 | 04 | 05 | 06  | 07  | 08  | 09  | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |       |
| 1906             | 0  | 0  | 0  | 0  | 0  | 0   | 0   | 8   | 19  | 28  | 31  | 35  | 33  | 27  | 22  | 14  | 7  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 222   |
| 1907             | 0  | 0  | 0  | 0  | 0  | 0   | 0   | 8   | 19  | 27  | 32  | 38  | 39  | 35  | 29  | 20  | 10 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 258   |
| 1908             | 0  | 0  | 0  | 0  | 0  | 0   | 1   | 10  | 15  | 18  | 17  | 22  | 23  | 18  | 16  | 14  | 9  | 2  | 0  | 0  | 0  | 0  | 0  | 0  | 166   |
| 1909             | 0  | 0  | 0  | 0  | 0  | 0   | 6   | 15  | 21  | 25  | 28  | 35  | 34  | 30  | 27  | 22  | 16 | 4  | 0  | 0  | 0  | 0  | 0  | 0  | 265   |
| 1910             | 0  | 0  | 0  | 0  | 0  | 3   | 18  | 32  | 45  | 51  | 55  | 58  | 56  | 53  | 41  | 35  | 27 | 11 | 0  | 0  | 0  | 0  | 0  | 0  | 485   |
| 1911             | 0  | 0  | 0  | 0  | 0  | 7   | 16  | 19  | 21  | 25  | 29  | 27  | 28  | 29  | 32  | 27  | 21 | 12 | 2  | 0  | 0  | 0  | 0  | 0  | 295   |
| 1912             | 0  | 0  | 0  | 0  | 0  | 7   | 14  | 16  | 19  | 23  | 27  | 29  | 28  | 22  | 25  | 25  | 20 | 15 | 5  | 0  | 0  | 0  | 0  | 0  | 275   |
| <b>REGION IV</b> | <b>NORTH AND CENTRAL AMERICA / РЕГИОН IV</b> |    |    |    |    |     |     |     |     |     |     |     | <b>СЕВЕРНАЯ И ЦЕНТРАЛЬНАЯ АМЕРИКА</b>     |     |     |     |    |    |    |    |    |    |    |    |       |
|                  | <b>USA</b>                                   |    |    |    |    |     |     |     |     |     |     |     |   |     |     |     |    |    |    |    |    |    |    |    |       |
|                  | <b>США</b>                                   |    |    |    |    |     |     |     |     |     |     |     |   |     |     |     |    |    |    |    |    |    |    |    |       |
|                  | <b>SOLAR RADIATION RESEARCH LAB.</b>         |    |    |    |    |     |     |     |     |     |     |     | <b>ИССЛ.ЛАБОРАТОРИЯ ПО СОЛН. РАДИАЦИИ</b> |     |     |     |    |    |    |    |    |    |    |    |       |
| 2005*            | 0  | 0  | 0  | 0  | 0  | 11  | 25  | 38  | 48  | 57  | 65  | 78  | 77  | 85  | 83  | 63  | 53 | 32 | 12 | 0  | 0  | 0  | 0  | 0  | 726   |
| 2006*            | 0  | 0  | 0  | 0  | 2  | 14  | 26  | 36  | 50  | 62  | 70  | 78  | 82  | 77  | 76  | 75  | 56 | 33 | 16 | 2  | 0  | 0  | 0  | 0  | 755   |
| 2007*            | 0  | 0  | 0  | 0  | 1  | 14  | 28  | 40  | 48  | 66  | 78  | 90  | 93  | 91  | 84  | 67  | 53 | 35 | 13 | 1  | 0  | 0  | 0  | 0  | 802   |
| 2008*            | 0  | 0  | 0  | 0  | 0  | 7   | 26  | 41  | 57  | 73  | 81  | 89  | 94  | 86  | 79  | 64  | 46 | 26 | 7  | 0  | 0  | 0  | 0  | 0  | 774   |
| 2009*            | 0  | 0  | 0  | 0  | 0  | 1   | 14  | 32  | 46  | 60  | 68  | 71  | 75  | 71  | 62  | 50  | 32 | 13 | 1  | 0  | 0  | 0  | 0  | 0  | 596   |
| 2010*            | 0  | 0  | 0  | 0  | 0  | 0   | 4   | 19  | 35  | 49  | 58  | 62  | 61  | 61  | 51  | 37  | 21 | 4  | 0  | 0  | 0  | 0  | 0  | 0  | 461   |
| 2011*            | 0  | 0  | 0  | 0  | 0  | 0   | 0   | 9   | 22  | 25  | 32  | 35  | 38  | 33  | 28  | 19  | 8  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 252   |
| 2012*            | 0  | 0  | 0  | 0  | 0  | 0   | 0   | 4   | 19  | 30  | 40  | 46  | 45  | 42  | 31  | 20  | 5  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 282   |
| <b>REGION V</b>  | <b>SOUTH-WEST PACIFIC / РЕГИОН V</b>         |    |    |    |    |     |     |     |     |     |     |     | <b>ЮГО-ЗАПАД ТИХОГО ОКЕАНА</b>            |     |     |     |    |    |    |    |    |    |    |    |       |
|                  | <b>AUSTRALIA</b>                             |    |    |    |    |     |     |     |     |     |     |     |   |     |     |     |    |    |    |    |    |    |    |    |       |
|                  | <b>АВСТРАЛИЯ</b>                             |    |    |    |    |     |     |     |     |     |     |     |   |     |     |     |    |    |    |    |    |    |    |    |       |
|                  | <b>COCOS ISLAND ARPT</b>                     |    |    |    |    |     |     |     |     |     |     |     | <b>КОКОСОВЫЕ О-ВА, АЭР.</b>               |     |     |     |    |    |    |    |    |    |    |    |       |
| 2010             | 0  | 0  | 0  | 0  | 0  | 1   | 22  | 55  | 81  | 107 | 119 | 135 | 117                                       | 114 | 107 | 88  | 56 | 22 | 1  | 0  | 0  | 0  | 0  | 0  | 1014) |
| 2011             | 0  | 0  | 0  | 0  | 0  | 2   | 28  | 56  | 82  | -   | 120 | 113 | 125                                       | 122 | 109 | 81  | 57 | 26 | 2  | 0  | 0  | 0  | 0  | 0  | -     |
| 2012             | 0  | 0  | 0  | 0  | 0  | 3   | 30  | 59  | 90  | -   | 124 | 129 | 120                                       | 114 | 107 | 83  | 58 | 25 | 2  | 0  | 0  | 0  | 0  | 0  | -     |
|                  | <b>DARWIN ARPT</b>                           |    |    |    |    |     |     |     |     |     |     |     | <b>ДАРВИН, АЭР.</b>                       |     |     |     |    |    |    |    |    |    |    |    |       |
| 2009             | 0  | 0  | 0  | 0  | 0  | 14  | 34  | 56  | 70  | 87  | 88  | 86  | 73  | 60  | 50  | 38  | 14 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 671   |
| 2010             | 0  | 0  | 0  | 0  | 0  | 1   | 20  | 50  | 74  | 96  | 106 | 102 | 93  | 81  | 65  | 59  | 43 | 19 | 1  | 0  | 0  | 0  | 0  | 0  | 796   |
| 2011             | 0  | 0  | 0  | 0  | 0  | 2   | 22  | 53  | 81  | 103 | 112 | 110 | 103                                       | 87  | 79  | 66  | 44 | 23 | 2  | 0  | 0  | 0  | 0  | 0  | 886   |
| 2012             | 0  | 0  | 0  | 0  | 0  | 3   | 26  | 52  | 79  | 103 | 119 | 122 | 120                                       | 117 | 101 | 74  | 46 | 20 | 1  | 0  | 0  | 0  | 0  | 0  | 988   |
|                  | <b>BROOME ARPT</b>                           |    |    |    |    |     |     |     |     |     |     |     | <b>БРУМ, АЭР.</b>                         |     |     |     |    |    |    |    |    |    |    |    |       |
| 2009             | 0  | 0  | 0  | 0  | 0  | 13  | 29  | 33  | 36  | 36  | 33  | 32  | 31  | 32  | 28  | 22  | 11 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 337   |
| 2010             | 0  | 0  | 0  | 0  | 0  | 2   | 20  | 41  | 53  | 66  | 69  | 65  | 63  | 48  | 46  | 42  | 33 | 17 | 1  | 0  | 0  | 0  | 0  | 0  | 517)  |
| 2011             | 0  | 0  | 0  | 0  | 0  | 3   | 24  | 49  | 66  | 74  | 85  | 92  | 76  | 57  | 66  | 57  | 43 | 23 | 3  | 0  | 0  | 0  | 0  | 0  | 718   |
| 2012             | 0  | 0  | 0  | 0  | 0  | 5   | 31  | 56  | 77  | 75  | 81  | 83  | 93  | 93  | 79  | 65  | 49 | 28 | 5  | 0  | 0  | 0  | 0  | 0  | 796   |
|                  | <b>TOWNSVILLE ARPT</b>                       |    |    |    |    |     |     |     |     |     |     |     | <b>ТАУНСВИЛЛ, АЭР.</b>                    |     |     |     |    |    |    |    |    |    |    |    |       |
| 2009             | 0  | 0  | 0  | 0  | 0  | 13  | 40  | 59  | 74  | 92  | 97  | 81  | 74  | 56  | 43  | 30  | 11 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 682   |
| 2010             | 0  | 0  | 0  | 0  | 0  | 1   | 21  | 41  | 63  | 76  | 81  | 77  | 74  | 65  | 49  | 39  | 30 | 16 | 1  | 0  | 0  | 0  | 0  | 0  | 624   |
| 2011             | 0  | 0  | 0  | 0  | 0  | 4   | 28  | 50  | 68  | 78  | 87  | 90  | 79  | 64  | 56  | 51  | 38 | 21 | 3  | 0  | 0  | 0  | 0  | 0  | 717   |
| 2012             | 0  | 0  | 0  | 0  | 0  | 6   | 30  | 61  | 85  | 97  | 99  | 97  | 91  | 87  | 72  | 59  | 45 | 25 | 4  | 0  | 0  | 0  | 0  | 0  | 857   |
|                  | <b>LEARMONTH ARPT</b>                        |    |    |    |    |     |     |     |     |     |     |     | <b>ЛИРМАНТ, АЭР.</b>                      |     |     |     |    |    |    |    |    |    |    |    |       |
| 2009             | 0  | 0  | 0  | 0  | 0  | 11  | 26  | 36  | 40  | 38  | 35  | 33  | 32  | 30  | 26  | 21  | 10 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 337   |
| 2010             | 0  | 0  | 0  | 0  | 0  | 2   | 19  | 34  | 45  | 48  | 49  | 48  | 52  | 56  | 46  | 37  | 31 | 18 | 2  | 0  | 0  | 0  | 0  | 0  | 487   |
| 2011             | 0  | 0  | 0  | 0  | 0  | 5   | 21  | 31  | 39  | 43  | 45  | 43  | 46  | 40  | 41  | 39  | 30 | 19 | 4  | 0  | 0  | 0  | 0  | 0  | 447   |
| 2012             | 0  | 0  | 0  | 0  | 0  | 8   | 28  | 40  | 42  | 50  | 56  | 47  | 50  | 59  | 54  | 45  | 39 | 27 | 7  | 0  | 0  | 0  | 0  | 0  | 552   |
|                  | <b>ROCKHAMPTON ARPT</b>                      |    |    |    |    |     |     |     |     |     |     |     | <b>РОКГЕМПТОН, АЭР.</b>                   |     |     |     |    |    |    |    |    |    |    |    |       |
| 2009             | 0  | 0  | 0  | 0  | 0  | 12  | 38  | 64  | 92  | 109 | 112 | 105 | 95  | 75  | 50  | 34  | 12 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 798)  |
| 2010             | 0  | 0  | 0  | 0  | 0  | 2   | 21  | 44  | 68  | 88  | 99  | 87  | 83  | 72  | 57  | 49  | 38 | 20 | 2  | 0  | 0  | 0  | 0  | 0  | 730   |
| 2011             | 0  | 0  | 0  | 0  | 0  | 5   | 28  | 53  | 80  | 94  | 93  | 96  | 95  | 82  | 66  | 51  | 39 | 24 | 5  | 0  | 0  | 0  | 0  | 0  | 789)  |
| 2012             | 0  | 0  | 0  | 0  | 0  | 7   | 30  | 57  | 85  | 114 | 117 | 116 | 110                                       | 98  | 77  | 55  | 43 | 26 | 6  | 0  | 0  | 0  | 0  | 0  | 933)  |
|                  | <b>ALICE SPRINGS ARPT</b>                    |    |    |    |    |     |     |     |     |     |     |     | <b>АЛИС-СПРИНГС, АЭР.</b>                 |     |     |     |    |    |    |    |    |    |    |    |       |
| 2009             | 0  | 0  | 0  | 0  | 0  | 16  | 43  | 59  | 73  | 44  | 48  | 53  | 49  | 59  | 69  | 43  | 14 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 473   |
| 2010             | 0  | 0  | 0  | 0  | 0  | 2   | 15  | 28  | 38  | 45  | 45  | 49  | 48  | 50  | 46  | 40  | 26 | 14 | 1  | 0  | 0  | 0  | 0  | 0  | 448   |
| 2011             | 0  | 0  | 0  | 0  | 0  | 6   | 26  | 46  | 61  | 67  | 73  | 80  | 75  | 65  | 58  | 58  | 46 | 25 | 4  | 0  | 0  | 0  | 0  | 0  | 692   |
| 2012             | 0  | 0  | 0  | 0  | 0  | 6   | 27  | 42  | 57  | 75  | 97  | 99  | 94  | 90  | 77  | 62  | 41 | 22 | 5  | 0  | 0  | 0  | 0  | 0  | 796   |
|                  | <b>KALGOORLIE ARPT</b>                       |    |    |    |    |     |     |     |     |     |     |     | <b>КАЛГУРЛИ, АЭР.</b>                     |     |     |     |    |    |    |    |    |    |    |    |       |
| 2009             | 0  | 0  | 0  | 0  | 0  | 11  | 32  | 54  | 72  | 74  | 73  | 71  | 72  | 66  | 48  | 30  | 10 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 607   |
| 2010             | 0  | 0  | 0  | 0  | 0  | 3   | 17  | 31  | 43  | 54  | 65  | 70  | 61  | 66  | 55  | 46  | 37 | 18 | 2  | 0  | 0  | 0  | 0  | 0  | 569   |
| 2011             | 0  | 0  | 0  | 0  | 0  | 8   | 25  | 34  | 42  | 50  | 56  | 64  | 77  | 74  | 65  | 53  | 38 | 22 | 7  | 0  | 0  | 0  | 0  | 0  | 615   |
| 2012             | 0  | 0  | 0  | 0  | 0  | 11  | 26  | 37  | 46  | 52  | 61  | 60  | 62  | 57  | 54  | 53  | 40 | 24 | 10 | 0  | 0  | 0  | 0  | 0  | 594   |
|                  | <b>ADELAIDE ARPT</b>                         |    |    |    |    |     |     |     |     |     |     |     | <b>АДЕЛАИДА, АЭР.</b>                     |     |     |     |    |    |    |    |    |    |    |    |       |
| 2009             | 0  | 0  | 0  | 0  | 0  | 10  | 30  | 49  | 73  | 83  | 90  | 84  | 77  | 62  | 46  | 29  | 9  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 642   |
| 2010             | 0  | 0  | 0  | 0  | 0  | 3   | 20  | 40  | 61  | 90  | 103 | 98  | 89  | 91  | 77  | 57  | 37 | 18 | 2  | 0  | 0  | 0  | 0  | 0  | 788   |
| 2011             | 0  | 0  | 0  | 0  | 0  | 10  | 30  | 51  | 65  | 84  | 83  | 91  | 86  | 79  | 69  | 58  | 47 | 30 | 9  | 0  | 0  | 0  | 0  | 0  | 763   |
| 2012             | 0  | 0  | 0  | 0  | 1) | 12) | 30) | 56) | 78) | 92) | 85) | 82) | 90)                                       | 77) | 70) | 81) | 64 | 40 | 16 | 1  | 0  | 0  | 0  | 0) | 854)  |

\*) Corrected data  
Исправленные данные

TABLE V (continued)

| MONTH<br>МЕСЯЦ | HOUR / ЧАС       |    |    |    |    |     |     |     |     |     |     |      |                  |      |     |     |     |     |     |    |    |    |    |    | MD   |
|----------------|------------------|----|----|----|----|-----|-----|-----|-----|-----|-----|------|------------------|------|-----|-----|-----|-----|-----|----|----|----|----|----|------|
|                | 01               | 02 | 03 | 04 | 05 | 06  | 07  | 08  | 09  | 10  | 11  | 12   | 13               | 14   | 15  | 16  | 17  | 18  | 19  | 20 | 21 | 22 | 23 | 24 |      |
|                | WAGGA WAGGA      |    |    |    |    |     |     |     |     |     |     |      | УОГГА-УОГГА      |      |     |     |     |     |     |    |    |    |    |    |      |
| 2009           | 0                | 0  | 0  | 0  | 0  | 0   | 9   | 30  | 48  | 66  | 78  | 81   | 77               | 72   | 57  | 48  | 30  | 10  | 0   | 0  | 0  | 0  | 0  | 0  | 606  |
| 2010           | 0                | 0  | 0  | 0  | 0  | 4   | 21  | 39  | 59  | 72  | 85  | 89   | 93               | 87   | 80  | 57  | 35  | 18  | 2   | 0  | 0  | 0  | 0  | 0  | 733  |
| 2011           | 0                | 0  | 0  | 0  | 0  | 10  | 26  | 35  | 45  | 56  | 66  | 78   | 72               | 72   | 66  | 60  | 44  | 26  | 10  | 0  | 0  | 0  | 0  | 0  | 665  |
| 2012           | 0)               | 0) | 0) | 0) | 1) | 14) | 30) | 43) | 58) | 75) | 85) | 89)  | 94)              | 92)  | 83) | 65) | 47) | 30) | 13) | 1) | 0) | 0) | 0) | 0) | 831) |
|                | MELBOURNE ARPT   |    |    |    |    |     |     |     |     |     |     |      | МЕЛЬБУРН, АЭР.   |      |     |     |     |     |     |    |    |    |    |    |      |
| 2009           | 0                | 0  | 0  | 0  | 0  | 0   | 10  | 32  | 57  | 82  | 87  | 92   | 88               | 79   | 68  | 53  | 32  | 10  | 0   | 0  | 0  | 0  | 0  | 0  | 695  |
| 2010           | 0                | 0  | 0  | 0  | 0  | 3   | 20  | 41  | 70  | 87  | 99  | 115  | 111              | 105  | 85  | 62  | 44  | 20  | 3   | 0  | 0  | 0  | 0  | 0  | 865  |
| 2011           | 0                | 0  | 0  | 0  | 0  | 11  | 28  | 51  | 65  | 77  | 86  | 99   | 94               | 87   | 81  | 70  | 49  | 30  | 11  | 0  | 0  | 0  | 0  | 0  | 845  |
| 2012           | 0                | 0  | 0  | 0  | 2  | 18  | 39  | 65  | 79  | 95  | 105 | 107  | 115              | 103  | 95  | 80  | 59  | 38  | 16  | 1  | 0  | 0  | 0  | 0  | 1002 |
|                | CAPE GRIM        |    |    |    |    |     |     |     |     |     |     |      | КЕЙП-ГРИМ        |      |     |     |     |     |     |    |    |    |    |    |      |
| 2009           | 0                | 0  | 0  | 0  | 0  | 0   | 9   | 33  | 57  | 70  | 87  | 97   | 101              | 89   | 75  | 56  | 30  | 8   | 0   | 0  | 0  | 0  | 0  | 0  | 712  |
| 2010           | 0                | 0  | 0  | 0  | 0  | 4   | 22  | 43  | 64  | 85  | 97  | 104  | 104              | 104  | 95  | 73  | 49  | 24  | 4   | 0  | 0  | 0  | 0  | 0  | 870  |
| 2011           | 0                | 0  | 0  | 0  | 1  | 14  | 38  | 63  | 88  | 99  | 111 | 120  | 109              | 98   | 92  | 77  | 59  | 36  | 15  | 1  | 0  | 0  | 0  | 0  | 1021 |
| 2012           | 0                | 0  | 0  | 0  | 3  | 20  | 41  | 72  | 102 | 123 | 112 | 119  | 124              | 131  | 106 | 98  | 70  | 47  | 22  | 3  | 0  | 0  | 0  | 0  | 1189 |
|                | INDONESIA        |    |    |    |    |     |     |     |     |     |     |      |                  |      |     |     |     |     |     |    |    |    |    |    |      |
|                | ИНДОНЕЗИЯ        |    |    |    |    |     |     |     |     |     |     |      |                  |      |     |     |     |     |     |    |    |    |    |    |      |
|                | BUKIT KOTOTABANG |    |    |    |    |     |     |     |     |     |     |      | БУКИТ КОТОТАБАНГ |      |     |     |     |     |     |    |    |    |    |    |      |
| 1911           | 0                | 0  | 0  | 0  | 0  | 0   | 12  | -   | -   | -   | -   | -    | -                | 129) | -   | 97) | 67) | 35) | 10  | 0  | 0  | 0  | 0  | 0  | -    |
| 1912           | 0                | 0  | 0  | 0  | 0  | 0   | 12  | -   | -   | -   | -   | -    | -                | -    | -   | -   | -   | -   | 11  | 0  | 0  | 0  | 0  | 0  | -    |
| 2001           | 0                | 0  | 0  | 0  | 0  | 0   | 15) | -   | -   | -   | -   | -    | -                | -    | -   | -   | -   | -   | 12) | 0  | 0  | 0  | 0  | 0  | -    |
| 2002           | 0                | 0  | 0  | 0  | 0  | 0   | 13  | -   | -   | -   | -   | 144) | -                | -    | -   | -   | -   | -   | 12) | 0  | 0  | 0  | 0  | 0  | -    |

TABLE VI. MONTHLY MEANS OF HOURLY TOTALS OF RADIATION BALANCE ( $J\ cm^{-2}$ )ТАБЛИЦА VI. СРЕДНИЕ ЗА МЕСЯЦ ЧАСОВЫЕ СУММЫ РАДИАЦИОННОГО БАЛАНСА (Дж·см<sup>-2</sup>)

| MONTH<br>МЕСЯЦ | HOUR / ЧАС                                |     |     |     |    |    |         |    |     |     |     |     |     |     |     |     |    |    |    |     |     |     |     |     | MO   |
|----------------|---|-----|-----|-----|----|----|---------|----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|-----|-----|-----|-----|-----|------|
|                | 01  | 02  | 03  | 04  | 05 | 06 | 07      | 08 | 09  | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17 | 18 | 19 | 20  | 21  | 22  | 23  | 24  |      |
|                | REGION II      ASIA / РЕГИОН II      АЗИЯ |     |     |     |    |    |         |    |     |     |     |     |     |     |     |     |    |    |    |     |     |     |     |     |      |
|                | RUSSIA<br>РОССИЯ                          |     |     |     |    |    |         |    |     |     |     |     |     |     |     |     |    |    |    |     |     |     |     |     |      |
|                | ОМУЯКОН                                   |     |     |     |    |    | ОЙМЯКОН |    |     |     |     |     |     |     |     |     |    |    |    |     |     |     |     |     |      |
| 2008*          | -13                                       | -13 | -12 | -12 | -8 | 1  | 15      | 32 | 50  | 64  | 71  | 76  | 71  | 60  | 54  | 39  | 26 | 13 | -2 | -10 | -13 | -13 | -12 | -13 | 451  |
|                | EKATERINBURG      ЕКАТЕРИНБУРГ            |     |     |     |    |    |         |    |     |     |     |     |     |     |     |     |    |    |    |     |     |     |     |     |      |
| 2007*          | -12                                       | -12 | -12 | -11 | -4 | 16 | 40      | 70 | 96  | 116 | 126 | 131 | 126 | 118 | 102 | 70  | 45 | 24 | 5  | -11 | -14 | -13 | -12 | -12 | 974  |
|                | OMSK                                      |     |     |     |    |    | ОМСК    |    |     |     |     |     |     |     |     |     |    |    |    |     |     |     |     |     |      |
| 2007*          | -3  | -3  | -3  | -3  | 4  | 28 | 59      | 91 | 123 | 149 | 173 | 176 | 172 | 162 | 143 | 121 | 87 | 55 | 27 | 2   | -3  | -4  | -4  | -3  | 1546 |
|                | IRKUTSK                                   |     |     |     |    |    | ИРКУТСК |    |     |     |     |     |     |     |     |     |    |    |    |     |     |     |     |     |      |
| 2008*          | -10                                       | -10 | -9  | -8  | -6 | 2  | 19      | 37 | 55  | 72  | 80  | 87  | 92  | 86  | 77  | 59  | 33 | 15 | -2 | -8  | -10 | -10 | -10 | -10 | 624  |

\*) Corrected data  
Исправленные данные

## LIST OF STATIONS

## СПИСОК СТАНЦИЙ

| INDEX<br>ИНДЕКС  | NAME OF STATION<br>НАИМЕНОВАНИЕ СТАНЦИИ | LATITUDE<br>ШИРОТА                     | LONGITUDE<br>ДОЛГОТА | ALTITUDE /m/<br>ВЫСОТА /м/ | TYPE OF INSTRUMENT<br>ТИП ПРИБОРА |            |            |       |          |
|--|---|--|----------------------|----------------------------|-----------------------------------|------------|------------|-------|----------|
|  |   |  |                      |                            | G                                 | D          | Q          | SS    |          |
| REGION I AFRICA / РЕГИОН I АФРИКА  |   |  |                      |                            |                                   |            |            |       |          |
| MADEIRA<br>МАДЕЙРА   |   |  |                      |                            |                                   |            |            |       |          |
| 08522  | FUNCHAL OBS.                            | ФУНШАЛ, ОБС.                           | 32 38 N              | 16 54 W                    | 58                                | KZ/CM11/   | KZ/CM11/   | -     | -        |
| 08524  | PORTO SANTO ARPT                        | ПОРТУ-САНТУ, АЭР.                      | 33 04 N              | 16 21 W                    | 78                                | TB/R/      | -          | -     | -        |
| REGION II ASIA / РЕГИОН II АЗИЯ  |   |  |                      |                            |                                   |            |            |       |          |
| INDIA<br>ИНДИЯ   |   |  |                      |                            |                                   |            |            |       |          |
| 42647  | AHMADABAD                               | АХМАДАБАД                              | 23 04 N              | 72 38 E                    | 55                                | -          | TT         | -     | -        |
| 43003  | BOMBAY /<br>SANTACRUZ                   | БОМБЕЙ /<br>САНТА-КРУС                 | 19 07 N              | 72 51 E                    | 15                                | PSP        | TT         | -     | -        |
| 42809  | CALCUTTA /<br>DUM DUM                   | КАЛЬКУТТА /<br>ДУМ-ДУМ                 | 22 39 N              | 88 27 E                    | 6                                 | PSP        | TT         | -     | SS/C/    |
| 43192  | GOA / PANJIM                            | ГОА / ПАНДЖИМ                          | 15 29 N              | 73 49 E                    | 55                                | PSP        | PSP        | -     | SS/C/    |
| 42339  | JODHPUR                                 | ДЖОДХПУР                               | 26 18 N              | 73 01 E                    | 217                               | PSP        | TT         | -     | SS/C/    |
| 43339  | KODAIKANAL                              | КОДАЙКАНАЛЬ                            | 10 14 N              | 77 28 E                    | 2339                              | PSP        | PSP        | -     | SS/C/    |
| 43279  | MADRAS /<br>MINAMBAKKAM                 | МАДРАС /<br>МИНАМБАККАМ                | 13 00 N              | 80 11 E                    | 10                                | PSP        | TT/EKO/    | -     | SS/C/    |
| 42867  | NAGPUR /<br>SONEGAON                    | НАГПУР /<br>СОНЕГАОН                   | 21 06 N              | 79 03 E                    | 308                               | PSP        | TT         | -     | SS/C/    |
| 42182  | NEW DELHI /<br>SAFDARJUNG               | НЬЮ-ДЕЛИ /<br>САФДАРДЖУНГ              | 28 35 N              | 77 12 E                    | 212                               | PSP        | TT         | -     | -        |
| 43063  | PUNE                                    | ПУНА                                   | 18 32 N              | 73 51 E                    | 555                               | PSP        | TT         | -     | SS/C/    |
| 42516  | SHILLONG                                | ШИЛЛОНГ                                | 25 34 N              | 91 53 E                    | 1600                              | PSP        | TT         | -     | SS/C/    |
| 43371  | TRIVANDRUM                              | ТРИВАНДРАМ                             | 8 29 N               | 76 57 E                    | 60                                | PSP        | TT/EKO/    | -     | SS/C/    |
| 43149  | VISHAKHAPATNAM                          | ВИШАКХАПАТНАМ                          | 17 43 N              | 83 14 E                    | 41                                | PSP        | TT/EKO/    | -     | SS/C/    |
| REPUBLIC OF KOREA<br>РЕСПУБЛИКА КОРЕЯ  |   |  |                      |                            |                                   |            |            |       |          |
| 47132  | ANMYEON-DO                              | АНМЕНДО                                | 36 32 N              | 126 19 E                   | 47                                | EKO/MS802F | EKO/MS802F | -     | -        |
| RUSSIAN FEDERATION ( RUSSIA )<br>РОССИЙСКАЯ ФЕДЕРАЦИЯ ( РОССИЯ )               |   |  |                      |                            |                                   |            |            |       |          |
| 28440  | EKATERINBURG                            | ЕКАТЕРИНБУРГ                           | 56 48 N              | 60 38 E                    | 237                               | TT/M/      | TT/M/      | BT/M/ | SS/C/    |
| 30710  | IRKUTSK                                 | ИРКУТСК                                | 52 16 N              | 104 21 E                   | 485                               | TT/M/      | TT/M/      | BT/M/ | SS/C/    |
| 24688  | OIMYAKON                                | ОЙМЯКОН                                | 63 16 N              | 143 09 E                   | 726                               | TT/M/      | TT/M/      | BT/M/ | SS/C/    |
| 28698  | OMSK                                    | ОМСК                                   | 54 56 N              | 73 24 E                    | 94                                | TT/M/      | TT/M/      | BT/M/ | SS/C/    |
| 28900  | SAMARA                                  | САМАРА                                 | 53 15 N              | 50 27 E                    | 44                                | TT/M/      | TT/M/      | -     | SS/C/    |
| REGION III SOUTH AMERICA / РЕГИОН III ЮЖНАЯ АМЕРИКА                            |   |  |                      |                            |                                   |            |            |       |          |
| CHILE<br>ЧИЛИ  |   |  |                      |                            |                                   |            |            |       |          |
| 85490  | EL TOLOLO                               | ЭЛЬ-ТОЛОЛО                             | 30 10 S              | 70 42 W                    | 2030                              | KZ         | KZ         | -     | -        |
| REGION IV NORTH AND CENTRAL AMERICA / РЕГИОН IV СЕВЕРНАЯ И ЦЕНТРАЛЬНАЯ АМЕРИКА |   |  |                      |                            |                                   |            |            |       |          |
| MEXICO<br>МЕКСИКА  |   |  |                      |                            |                                   |            |            |       |          |
|  | CIUDAD UNIV.                            | СЬЮДАД, УН-Т                           | 19 20 N              | 99 11 W                    | 2268                              | KZ/CMР21/  | KZ/CMР21/  | -     | KZ/CHP1/ |
| SAINT-PIERRE AND MIQUELON<br>СЕН-ПЬЕР И МИКЕЛОН                                |   |  |                      |                            |                                   |            |            |       |          |
| 71805  | ST-PIERRE                               | СЕН-ПЬЕР                               | 46 46 N              | 56 11 W                    | 21                                | KZ         | -          | -     | SS/CS/   |
| TRINIDAD AND TOBAGO<br>ТРИНИДАД И ТОВАГО                                       |   |  |                      |                            |                                   |            |            |       |          |
| 78970  | PIARCO INT. ARPT,<br>TRINIDAD           | ПЬЯРКО, МЕЖД. АЭР.<br>(ТРИНИДАД)       | 10 37 N              | 61 21 W                    | 12                                | KZ         | KZ         | -     | SS/C/    |
| UNITED STATES OF AMERICA ( USA )<br>СОЕДИНЕННЫЕ ШТАТЫ АМЕРИКИ ( США )          |   |  |                      |                            |                                   |            |            |       |          |
|  | SOLAR RADIATION<br>RESEARCH LAB.        | ИССЛ. ЛАБОРАТОРИЯ<br>ПО СОЛН. РАДИАЦИИ | 39 44 N              | 105 11 W                   | 1829                              | KZ/CM22/   | KZ/CM22/   | -     | -        |

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|--|---|----------------------------|---------------------|----------------------------|-----|-----------------------------------|-----------|---|----------|
|  |   | D                          | Q                   | SS                         |     |                                   |           |   |          |
| REGION V SOUTH-WEST PACIFIC / РЕГИОН V ЮГО-ЗАПАД ТИХОГО ОКЕАНА |   |                            |                     |                            |     |                                   |           |   |          |
| AUSTRALIA<br>АВСТРАЛИЯ   |   |                            |                     |                            |     |                                   |           |   |          |
| 94672  | ADELAIDE ARPT                           | АДЕЛАИДА, АЭР.             | 34 57 S             | 138 31 E                   | 8   | KZ/CM11/                          | KZ/CM11/  | - | -        |
| 94326  | ALICE SPRINGS<br>ARPT                   | АЛИС-СПРИНГС,<br>АЭР.      | 23 48 S             | 133 53 E                   | 547 | KZ/CM11/                          | KZ/CM11/  | - | -        |
| 94203  | BROOME ARPT                             | БРУМ, АЭР.                 | 17 57 S             | 122 14 E                   | 9   | KZ/CM11/                          | KZ/CM11/  | - | -        |
| 94954  | CAPE GRIM                               | КЕЙП-ГРИМ                  | 40 41 S             | 144 41 E                   | 93  | KZ/CM11/                          | KZ/CM11/  | - | -        |
| 96996  | COCOS ISLAND<br>ARPT                    | КОКОСОВЫЕ О-ВА,<br>АЭР.    | 12 11 S             | 96 50 E                    | 4   | KZ/CM11/                          | KZ/CM11/  | - | -        |
| 94120  | DARWIN ARPT                             | ДАРВИН, АЭР.               | 12 25 S             | 130 54 E                   | 35  | KZ/CM11/                          | KZ/CM11/  | - | -        |
| 94403  | GERALDTON ARPT                          | ДЖЕРАЛДТОН, АЭР.           | 28 48 S             | 114 42 E                   | 30  | KZ/CM11/                          | KZ/CM11/  | - | -        |
| 94637  | KALGOORLIE ARPT                         | КАЛГУРЛИ, АЭР.             | 30 47 S             | 121 27 E                   | 370 | KZ/CM11/                          | KZ/CM11/  | - | -        |
| 94302  | LEARMONTH ARPT                          | ЛИРМАНТ, АЭР.              | 22 14 S             | 114 06 E                   | 6   | KZ/CM11/                          | KZ/CM11/  | - | -        |
| 94866  | MELBOURNE ARPT                          | МЕЛЬБУРН, АЭР.             | 37 40 S             | 144 50 E                   | 119 | KZ/CM11/                          | KZ/CM11/  | - | -        |
| 94374  | ROCKHAMPTON ARPT                        | РОКГЕМПТОН, АЭР.           | 23 23 S             | 150 29 E                   | 15  | KZ/CM11/                          | KZ/CM11/  | - | -        |
| 94294  | TOWNSVILLE ARPT                         | ТАУНСВИЛЛ, АЭР.            | 19 15 S             | 146 46 E                   | 9   | TT/E8-48/                         | TT/E8-48/ | - | -        |
| 94910  | WAGGA WAGGA                             | ВОГГА-ВОГГА                | 35 09 S             | 147 27 E                   | 213 | KZ/CM11/                          | KZ/CM11/  | - | -        |
| INDONESIA<br>ИНДОНЕЗИЯ   |   |                            |                     |                            |     |                                   |           |   |          |
| 96169  | BUKIT KOTOTABANG                        | БУКИТ КОТОТАБАНГ           | 0 12 S              | 100 19 E                   | 864 | PSP                               | PSP       | - | -        |
| REGION VI EUROPE / РЕГИОН VI ЕВРОПА                            |   |                            |                     |                            |     |                                   |           |   |          |
| AZORES<br>АЗОРСКИЕ О-ВА  |   |                            |                     |                            |     |                                   |           |   |          |
| 08511  | ANGRA DO<br>HEROISMO OBS.               | АНГРА-ДУ-<br>ЭРОИЖМУ, ОБС. | 38 40 N             | 27 13 W                    | 74  | KZ/CM11/                          | -         | - | -        |
| 08504  | PICO ARPT                               | ПИКО, АЭР.                 | 38 33 N             | 28 27 W                    | 33  | KZ/CM11/                          | -         | - | -        |
| GERMANY<br>ГЕРМАНИЯ  |   |                            |                     |                            |     |                                   |           |   |          |
| 10348  | BRAUNSCHEWIG                            | БРАУНШВАЙГ                 | 52 18 N             | 10 27 E                    | 83  | KZ/CM11/                          | KZ/CM11/  | - | SS/C/    |
| 10488  | DRESDEN/KLOTZSCHE                       | ДРЕЗДЕН/КЛОШЕ              | 51 08 N             | 13 45 E                    | 226 | KZ/CM11/                          | KZ/CM11/  | - | SS/C/    |
| 10147  | HAMBURG -<br>FUHLBUETTEL                | ГАМБУРГ -<br>ФЮЛСБЮТТЕЛЬ   | 53 38 N             | 10 00 E                    | 14  | KZ/CM11/                          | KZ/CM11/  | - | SS/C/    |
| 10393  | LINDENBERG                              | ЛИНДЕНБЕРГ                 | 52 13 N             | 14 07 E                    | 122 | KZ/CM21/                          | KZ/CM21/  | - | SS/C/    |
| 10609  | TRIER                                   | ТРИР                       | 49 45 N             | 6 40 E                     | 278 | KZ/CM11/                          | KZ/CM11/  | - | SS/C/    |
| 10863  | WEIHENSTEPHAN                           | ВЕЙЕНСТЕФАН                | 48 24 N             | 11 42 E                    | 472 | KZ/CM11/                          | KZ/CM11/  | - | SS/C/    |
| 10655  | WUERZBURG                               | ВЮРЦБУРГ                   | 49 46 N             | 9 58 E                     | 275 | KZ/CM11/                          | KZ/CM11/  | - | SS/C/    |
| POLAND<br>ПОЛЬША   |   |                            |                     |                            |     |                                   |           |   |          |
| 12471  | BELSK                                   | БЕЛЬСК                     | 51 50 N             | 20 47 E                    | 178 | KZ/CMP21/                         | -         | - | SS/C/    |
| 12105  | KOSZALIN                                | КОШАЛИН                    | 54 12 N             | 16 09 E                    | 33  | KZ/CMP11/                         | KZ/CMP11/ | - | KZ/CSD1/ |
| 12372  | WARSZAWA                                | ВАРШАВА                    | 52 16 N             | 20 59 E                    | 130 | KZ/CMP11/                         | KZ/CMP11/ | - | SS/C/    |
| 12625  | ZAKOPANE                                | ЗАКОПАНЕ                   | 49 18 N             | 19 57 E                    | 857 | KZ/CMP11/                         | KZ/CMP11/ | - | KZ/CSD3/ |