## A1 Administrative matters related to the research

Following the publication in the Official Journal of European Communities C series n° 170/20 June 14 1996 of the "Notice of public contract - Open procedure" for a research activity aimed at "providing the scientific basis for harmonised definition of models for determining the actions of snow applied to the structural parts of construction works", the present research group co-ordinated by Prof. Sanpaolesi - University of Pisa (IT), on July 1996 presented a tender referring to the technical specification document "General invitation to tender n° 96/C 170/13".
The research group comprises the following institutions:

1. BUILDING RESEARCH ESTABLISHMENT LTD, CONSTRUCTION DIVISION (UNITED KINGDOM)
2. CSTB, CENTRE DE RECHERCHE DE NANTES (FRANCE)
3. ECOLE POLYTECHNIQUE FÉDÉRALE DE LAUSANNE, (SWITZERLAND)
4. ISMES STRUCTURE ENGINEERING DEPARTMENT (ITALY)
5. JOINT RESEARCH CENTRE, ISIS (EU)
6. SINTEF, CIVIL AND ENVIRONMENTAL ENGINEERING (NORWAY)
7. UNIVERSITY OF LEIPZIG, INSTITUTE OF CONCRETE DESIGN (GERMANY)
8. UNIVERSITY OF PISA, DEPARTMENT OF STRUCTURAL ENGINEERING (ITALY)

In the tender the research work was divided into two consecutive phases. Each phase deals with two specific items and technical co-ordination of the research activity for each item is carried out by a member of the research group:

Phase I

task Ia: "Development of models for the determination of snow loads on the ground" Co-ordinator Dr. Gränzer (University of Leipzig - DE);

task Ib: "Development of models for exceptional snow loads" Co-ordinator Mr. Sims (BRE-UK);

Phase II

task IIc: "Definition of criteria to be adopted for serviceability loads" Co-ordinator Prof. Holand (SINTEF - N);

task IId: "Analytical study for the definition of shape coefficients" Co-ordinator Mr. Stiefel (EPFL - CH);

The contract (banco n° 500269) between the European Commission and the research group was signed on Dec. 16 1996. Prof. Sanpaolesi signed the contract as Co-ordinator of the group, on behalf of all participant. This contract covers only phase I of the research.

During the reference period, fixed as 14 months after the signature, the group has strictly followed the administrative, formal and technical indications enclosed in the contract and in its annexes. Technical specifications were given in Annexe III of the contract.

The research activity started on Feb. 1997, the interim report and final report were required to be sent to the Commission within 9 months and 12 months respectively after the signature of the contract. As a result of a delay in starting the works the Co-ordinator, on behalf of the Partners, asked DGIII for an extension of three months to the contract duration. This was approved in the

letter to the Co-ordinator from the Commission dated 20 June 1997 and article two of the contract was amended as follows:

"La tâche confiée au contractant devra être accomplie au plus tard 17 mois à compter de la date de signature du contrat (phase I)".

Therefore the timetable for the submission of official deliverables iwas as follows:

- interim report 16th December 1997;
- draft final report 16th March 1998.

The interim report was submitted to the Commission on December 11 1997, according to the revised timetable.

Now the final report is being submitted to the Commission in accordance to the timetable. Only in the case of comments coming from the Commission, within one month after the submission, will the group have one further month in order to revise the document taking into account the Commission's observations.

To date seven meetings among Partners have taken place,

- in Brussels on 12th February 1997;
- in Zurich on 29th April 1997;
- in Ispra on 3rd/4th July 1997 (with the presence of National Technical Contacts);
- in Pisa on 19th/20th September 1997 (with the presence of Mr. Jean);
- in Frankfurt on 11th 12th December 1997;
- in Brussels on 29th January 1998;
- in Oslo on 3rd and 4th March 1998.

The development of the research work has been completely in accordance with all requirements of the contract and no particular difficulties have been encountered during the development of the study.

An information and communication protocol between Partners was agreed. Both fax and e-mail are used. When e-mail was used Partners were asked to acknowledge receipt of message within 24 hours otherwise non-receipt was assumed. The standard for documents was WORD6 and spreadsheets is EXCEL5 operating in the Microsoft Windows environment.

All Partners carried out the work in accordance with the existing QA procedures at their respective organisations.

For the present research work a liaison with CEN/TC/250/SC1 has been established. This liaison was approved by SC1 with the resolution n° 76 dated May the 23rd 1997.

According to the Annexe 2 to the tender each participant had contacts with the National Meteorological Offices of specific European countries, in order to collect snow data and to receive their comments.

As for the NMO, contacts were made , according to Chapter 4 of the tender, with National Technical Contacts, who were also formally invited to the meeting held in Ispra on 4th of July 1997.

All financial aspects have been regularly fulfilled by the contractor and by the Commission in respect of terms foreseen by the contract.

## A2 Snow loads/depths data base / density models

This Annex presents summary information on the sources, the nature and the availability of snow data in each country.

A2.1 Austria

The annual (partially monthly) maxima of snow depth (m), measured at 7 o'clock in the morning, were purchased, for this contract, from the Austrian Meteorological Office. In Austria the snow depth is measured by means of a ruler. There were 2-4 measurements per station and the final value of snow depth is the mean of these.
Period of measurements: 1947 – 1997.
Total number of stations is 160.
The minimum period of observations is 30 years.
80 stations have a record period of 50 years.
All data were available in electronic format as ASCII data.
Additional information for the stations is: the number (according to the Austrian meteorological office), geographical co-ordinates, and altitude.

A2.2 Belgium and Luxembourg

Thirteen meteorological stations were selected in Belgium and one in Luxembourg. Unfortunately, there is only a short period available on computer (12 years, from 1985 to 1996), but there are several complete samples from the data used by R. Sneyer (data from 1947 to 1965). 6 stations have an altitude lower than 100 m, 3 stations have an altitude included between 100 and 200 m, 3 stations have an altitude included between 200 and 500 m and 2 have an altitude greater than 500 m.
The statistical sample for each station is constituted by the annual maximum of daily maximum snow depths. For several stations there are some years without snow; a year is considered without snow, if the annual maximum snow depth is lower than 1 cm.
To evaluate snow load from snow depth, an average density of 1,5 $kN/m^3$ was used.

A2.3 Denmark

The Danish Meteorological Institute records snow depth and snow cover on a routine basis. Simultaneous measurements of snow density and relevant climatic parameters were performed for the period 1971-80 at one station in Southern Jutland. To estimate water equivalents from other known meteorological parameters, a simulation model was used, that simulates the development of a snowpack. Simulations have been made for seven synoptic stations in the period 1971 – 79.

Unfortunately, the detailed data have been lost and are not available for further analyses. However work on snow loads is in progress in Denmark, but results were not available for incorporation in Phase I of this research.

A2.4 Eire and United Kingdom

Measurements of snow depth are taken by ruler at 0900 GMT and recorded to the nearest whole centimetre on a daily basis, whenever snow is lying on the ground. Prior to 1971 measurements were made to the nearest inch. This alters the discrimination in recorded snow depth values for stations with records starting before 1971.

Water equivalent of lying snow is recorded at some stations in the UK, also at 0900GMT, on days when the total snow depth is at least 2cm. The average snow water equivalent value from at least three samples is recorded along with the corresponding depth of snow cover. Water equivalent records for Eire are not available.

The computer records of snow depth data for the network of 14 synoptic stations in Eire were purchased from Met Eirreann. All these stations have records in excess of 30 years which are quality checked.

The UK Met Office supplies data without quality assurance. A preliminary pilot study for a small region of the UK revealed some stations with a significant number of errors in the data. Given the relatively small data set for the UK and the type of errors found, the inclusion of erroneous data would significantly affect results. This must have occurred during the previous determination of characteristic snow loads in the UK and therefore questions the reliability of snow loads given in both the UK snow loading standard BS6399 Part 3 and in Annex A of ENV 1991-2-3 [Ref. 1]. Hence data quality is particularly important for UK and all data therefore had to undergo a thorough programme of quality checking prior to analysis. Checking programs developed by BRE highlighted potential errors where there were exceptionally large snow depths or large differences in snow depth on consecutive days. These data were then checked against the original daily records in the Archive and also against alternative sources of information. Many transcription errors were discovered and corrected. In preparing the UK data for analysis, it also became apparent that many records were incomplete, although from the data supplied, it was impossible to determine whether gaps in the data set were due to zero years or failure to record. Extensive cross-checking against alternative sources has been necessary to validate the continuity of many data records.

Following these checking procedures, only 235 UK stations were considered to have data records suitable for analysis. Seven of these stations have records for more than 40 years; 154 have between 30 and 40 years of data and 62 have between 20 and 30 years of data. The remaining 12 stations have only between 12 and 19 years of data, but have been included in the data set to ensure a reasonable geographical coverage of stations for the analysis.

Forty seven stations in the UK were found to have records of both snow depth and water equivalent for more than 10 years and these data were copied from paper record in Met Office archive by BRE staff. These records were transferred to computer for use in developing a more reliable water equivalent model for UK and Eire.

A2.5 Finland

Finland has long traditions in studies of snow. Snow observations started as early as about 1750. In 1909 two observation networks, started in the eighteen-nineties, were integrated under the Central Meteorological Institute. Since then snow recordings have been expanded gradually. “Snow

courses", started in 1946 in the Hydrological office, now constitute the basic network of snow surveys in Finland. In a snow course, snow depths are measured with specified distance intervals along a line, and densities are measured at specified depth measuring points.

The time intervals of the recordings have been:
until 1968: monthly, on the 16th day in each month
1968-96: twice each month, on the first and 16th days

Daily water equivalents between the observations are interpolated by using daily precipitation and air temperature data.

## A2.6 France

Meteo France has selected 128 meteorological stations distributed on the French territory with a long observation period (since 1945) and situated at low altitude : 98 stations have an altitude lower than 200 m, 24 stations have an altitude included between 200 and 500 m, 4 stations have an altitude included between 500 and 1000 m and 2 have an altitude greater than 1000 m.
Only the daily maximum of snow depth on the ground is measured, the statistical sample for each station being constituted by the annual maximum of daily maximum snow depth. But for several stations there are some years without snow, particularly in the south of France; a year is considered without snow if the annual maximum snow depth is smaller than 1 cm.

## A2.7 Germany

Western Germany

Measurements of daily snow depth (cm) (but not regularly) and water equivalent (3 times per week, not regularly) were available for:
140 climatic stations with the maximal period of observations 1950-1983,
(some stations have a smaller record period)
173 precipitation stations with the maximal period of observations 1950-1981
(some stations have a smaller record period)
There were some gaps in the records.
Snow data and the numbers of stations were available in electronic format (standard ASCII). Additional information for the stations: the number (according to German meteorological office), geographical co-ordinates, and altitude was supplied in manuscript form and digitised.

Eastern Germany

The following meteorological data were available for 23 climatic stations:
Daily maximum, minimum and mean value of shade air temperature (0° C)
Daily values of precipitation (mm)
Daily values of snow depth (cm), measured at 7 o'clock in the morning.
There are gaps in the records.
Values of water equivalent (mm) - 3 times per week, measured at 7 o'clock in the morning. There are gaps in the records.
Period of observations: 1947-1993, with some exceptions.
Snow data and the numbers of stations are in electronic format (standard ASCII).

A2.8 Greece

Greek snow data were obtained from the archives of the National Electric Company, for a total number of 96 stations. These were chosen for the duration of the period of measurement (longer than 20 years) and to give a reasonably homogenous coverage throughout all of Greece. Stations are located mainly at high altitudes, but there are stations located at low altitudes which have fewer and less reliable data.
The data contain daily measurements indicating the water equivalent of snow fallen in the 24 h period; measurements are taken at 09:00 .
Data were available in manuscripts and it was necessary to input them to computers.
For all stations geographical co-ordinates and altitude were available, as were the following supporting qualitative information: wind presence and sunny or cloudy weather.

The accumulation of snow is very rare and starting from daily data it is treated by summing up the depths of three consecutive days' snowfall.

A2.9 Iceland

A report from the Icelandic Meteorological Institute dated September 1997 (in Icelandic) became available towards the end of Phase 1. The Icelandic Meteorological Institute records snow depths on a routine basis, normally each day. The report contains calculated snow depths in Iceland with 50 years return periods based on this data collection.

A2.10 Italy

Italian data sets for the elaboration of characteristic snow load values were collected from the archives of the Italian Hydrographic Service, for a total number of 99 stations, of two different types:

a) measurement taken three times per month (at $10^{th}$, $20^{th}$ and $30^{th}$), indicating the depth of the snow cover on the ground expressed in centimetres measured at 9:00 o'clock. This kind of data were collected for stations located at high altitudes because of the usual long duration of the snow cover on the ground. Data were collected for 46 stations for a period of 30 years (1940 - 1970)

b) daily measurements indicating the depth of snow cover and the 24 h depth of snowfall, measured at 9:00 o'clock. Such data were collected for 53 stations at low altitude to integrate data described above for a period of 40 years (1950 - 1990).

Data were available in manuscripts and it was necessary to input them to computers.
Stations were selected for the continuity of the measurement period and to give a reasonably homogeneous distribution throughout Italy.
For all stations geographical co-ordinates and altitude were available, along with the following supporting qualitative information for type b) stations: wind presence and sunny or cloudy weather.

A2.11 Netherlands

The following meteorological information was acquired from the Dutch Meteorological Office:
Annual maxima of snow depth (cm) of:
13 rainfall stations with period of observations 1961-1996
1 rainfall station with period of observations 1961-1967

1 rainfall station with period of observations 1961-1970
These stations are uniformly spread across the country.
For 15 synoptical stations (having the same geographical co-ordinates as the rainfall stations above) the daily measurements:
Snow depth (cm)
Mean wind speed (m/sec)
Maximum temperature (0°C)
Minimum temperature (0°C)
All data are in electronic format (standard ASCII).

A2.12 Norway

General precipitation observations including snow depths exist from 1895 until today. In the period 1899-1931 some stations recorded the average densities, in the period 1899-1908 daily, and in the period 1908-1931 every 5th day.

Recordings from stations spread all over the country were analysed in the 1970's. For observations where only the snow depth had been recorded, a value of 300 kg/m3 was used as valid for density at maximum snow depth. In 1988 40 stations in the counties Telemark, Rogaland, Nordtröndelag and Nordland, partly additional to those in the Norwegian Standard NS 3479, were analysed. In this investigation snow depths in additional years were included, and variable densities during the winter were used (December 225, January 238, February 250, March 275, April 300 and May 325 kg/m3). Since May very seldom is relevant, this assumption of density variation is slightly less conservative than the one from 1979. In 1989 18 stations in the most urbanised municipalities in south-eastern Norway (Oslo, Asker and Baerum) were considered in the same manner.

A2.13 Portugal

Snow cover records were obtained from the Portuguese Ministry of Environment - Meteorological Institute (Climate and Climatological Change Department). These records included daily snow cover records from relevant meteorological stations together with the location details for all their meteorological stations. Data were available from 1941 on magnetic storage and on paper from 1931 and cover the period to the end of 1994. In total 112 stations on the mainland and 25 stations in the Portuguese Islands (Azores, Madeira) have been examined. Among the 112 stations on the mainland 79 were reported without relevant uncertainties and therefore considered in the analysis.

The daily snow cover is not a precise measurement but a code which represents a depth interval. This code is an integer in the range 0 to 9 where 0 equates to no snow, 4 equates to the interval 10÷15 cm, 7 to the interval 50÷100 cm and 9 greater than 200 cm. Over 97% of the total daily observations from the stations indicate no snow.
Snow density measurements in Portugal are not carried out and therefore the density values of the neighbouring Spain were assumed.

A2.14 Spain

Snow cover and station location data for a total of nine stations located in the mountain regions of Spain and 1075 thermo-pluviometric stations above 200 m altitude with at least 15 years of

measurements were obtained from the Spanish Ministry of Environment - National Meteorological Institute (Climatological Department). Additionally daily water equivalent values when the minimum temperature was less than or equal to zero degrees Celsius were included in the data from the thermo-pluviometric stations. Measurements date from 1893 to the present day.

Additionally JRC - Institute for Systems, Informatics and Safety (Agricultural Information System Unit) provided location data for 76 stations and daily snow cover records for 41 stations. Some of these stations however have records with lengths which are too short to be used for this work.

In total 1127 stations on the Spanish mainland and 32 in the islands (Balearic, Canary) were examined. Among the 1127 stations on the mainland 300 were selected using the following criterion: under 700 m of altitude with an observation period not less than 30 years and under 2000 m with an observation period not less than 50 years. Between the two stations of the Balearic Island the one reputed without relevant uncertainties was considered in the analysis.

### A2.15 Sweden

Snow depths from the period 1907-1990 (84 years) have been used as a basis for a statistical treatment. Annual maximum depths have been taken from 40 stations, including stations along the coast as well as stations in the mountainous parts and intermediate places. Data from the period 1909-25, when both depth and density measurements were carried out to a large extent, have been analysed with the objective of finding a method for the determination of density at the time of maximal snow load. Through multiple regression the density of the snow cover has been linked to the depth and age of the snow cover. The calculated densities have been verified against new independent data from Swedish Meteorological and Hydrological Institute from the period 1978-94. The results regarding density at the time of maximum snow load agree, with a standard deviation of 0.02 to 0.07 between the new-recorded data and the model based on the old data. For the computation of snow loads in Sweden the resulting densities have been simplified and standardized, also intending a harmonization with Finland, Denmark and Norway, as follows:

| | |
|---|---|
| Norrland to Dalsland (Internal, partly mountainous) | 230 kg/m3 |
| Götaland's coast, Gotland and Öland (islands) | 280 kg/m3 |
| Remaining parts of Sweden | 240 kg/m3 |

### A2.16 Switzerland

In Switzerland 4 federal research institutes carry out snow load measurements:

- Snow and Avalanche Research Institute at Davos
- National Meteorological Institute of Switzerland
- Swiss Federal Institute of Technology, Department of Geography
- Federal Research Institute for Forest, Snow and Country side

Measurements exist for 237 stations all over Switzerland. Stations in the alpine region measure mainly water equivalents (fro this investigations 168 stations are used), operated by Snow and Avalanche Research Institute at Davos. For the stations in the rest of Switzerland snow depth is measured by National Meteorological Institute. Approximately 10 % of the stations started operating before 1950, 25 % opened between 1951 and 1960, 40 % between 1961 and 1970, 20 % between 1971 and 1980 and 5 % after 1981.

The following table summarises the density models used in the calculation of national standards before the present research work.

*Table A2. 1 Models for density used in the national standards in different CEN countries*

| No. | CEN member | Density ($kg/m^3$) |
|---|---|---|
| 1 | Austria | 250-300 altitude less than 1500 m above the sea level<br>350 altitude greater than 1500 m above sea level |
| 2 | Belgium | 150 |
| 3 | Denmark | Canadian snow pack model of Leaf/Brink [27],<br>200 - for naturally packed snow |
| 4 | Finland | Direct measurements of water equivalent, $\approx 250$ |
| 5 | France | 150 |
| 6 | Germany | Snow load factor of German Meteorological Office (DWD)<br>$D = 159.81 + 129.82\,h - 81.09\,h^2 + 59.907\,h^3 - 20.652\,h^4$ for $h < 1.53$ m<br>$D = 270$ for $h \geq 1.53$ m |
| 7 | Greece | 125 |
| 8 | Ireland | 150 |
| 9 | Iceland | Snow density: $D = 250 + h + 6 \cdot t_w$<br>where $h$ - snow depth in cm<br>$t_w$ - mean temperature in the coldest winter month in °C |
| 10 | Italy | For low altitude: 250<br>For high altitude time-dependent model is used:<br>217 - 315 initial density value<br>315 mean density value in the constant period of the winter<br>315 - 529 increasing density value at the melting period |
| 11 | Luxembourg | 150 |
| 12 | Netherlands | 100 |
| 13 | Norway | 225 - 325 for maximum depths occurring in December to May |
| 14 | Portugal | no data |
| 15 | Spain | During the period of maximum snow load:<br>326 - for altitude from 1500 m to 2000 m<br>266 - for altitude from 1000 m to 1500 m<br>200 - for altitude from 800 m to 1000 m<br>150 - for altitude less than 800 m |
| 16 | Sweden | Different values for different parts of country:<br>230 - for Norrland to Dalsland (Internal, partly mountainous)<br>280 - for Götaland's coast, Gotland and Öland (islands)<br>240 - for remaining parts of Sweden |
| 17 | Switzerland | 100 - for the new-fallen snow<br>200 - for snow after several hours or days since snowfall<br>300 - average value at maximum snow load<br>350 - old snow (after weeks or months since snowfall)<br>400 - wet snow |
| 18 | UK | 150 |

## A3 Probabilistic analysis of ground snow data: examples

One of the purposes of the European Snow Load Research Program is to analyse the ground snow load data with probabilistic methods. In the Background Document of SC1/TC250/PT1 Snow Load [4], 1995 the different types of uncertainities had been discussed. They are summarised below :

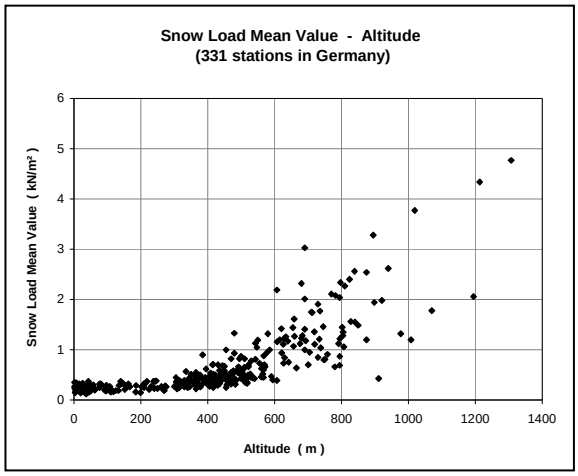
- statistical uncertainty
  - measuring techniques
  - location of station
- model uncertainty
  - transformation from depth of snow layer to snow load
  - selection of probabilistic distribution function, probabilistic model
  - determination of mean recurrence interval MRI
  - regionalization of snow load

To elaborate a complete European Ground Snow Load Map probabilistic analyses of the ground snow load data in the 18 CEN countries was performed. . The results of Germany and Switzerland are presented as examples in this annex.

Germany

Original data, water equivalent measurements three times per week, are available for 331 stations. Most of the stations from Western Germany have a record period of 30 years, most stations from Eastern Germany - 46 years. There are two stations with - 100 years.
The mean value, standard deviation and coefficient of variation of the annual maximum of snow load versus altitude can be seen in Fig. A3.1 and A3.2. Standard deviation and coefficient of variation versus mean value can be seen in Fig. A3.3.

*Figure A3.1 Mean values and standard deviation of annual maximum of snow load versus altitude*



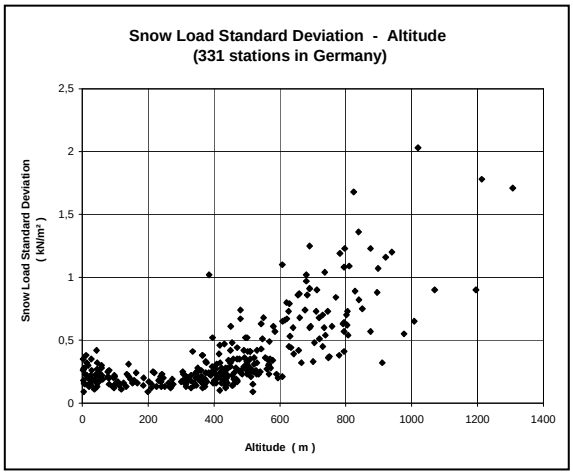



*Figure A3.2 Coefficient of variation of annual maximum of snow load versus altitude*

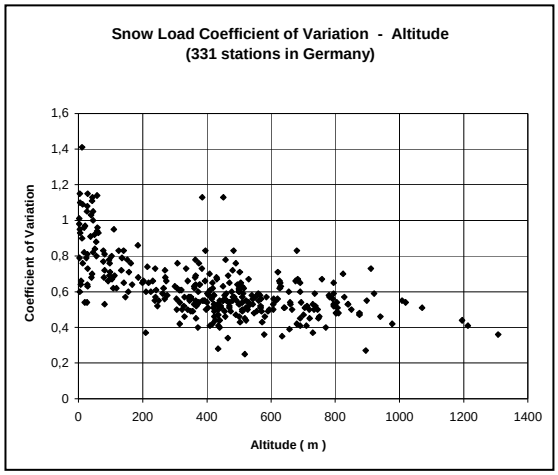
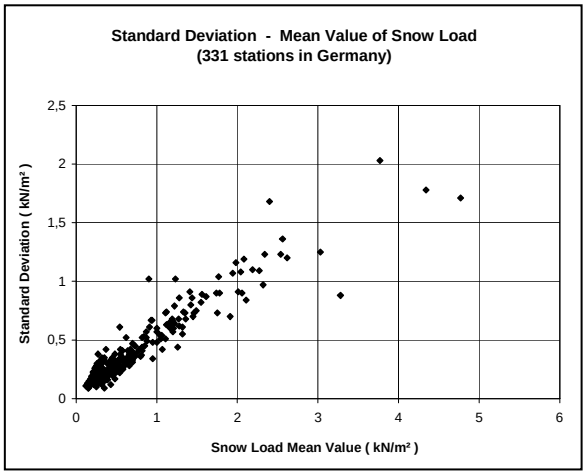
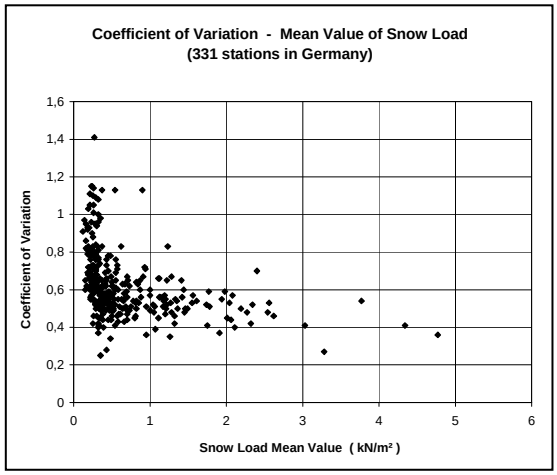



*Figure A3.3 Standard deviation and coefficient of variation versus mean value*




As can be seen from these figures, the mean value and standard deviation increase with altitude while the coefficient of variation has a tendency to decrease with altitude (Fig. A3.2). But the same figure shows that the scatter is very large: from 0.2 up to 1.4. The largest values of the coefficient of variation are observed at low altitudes. This is the statistical reason why different PDF's provide the best fit to the data at different stations.

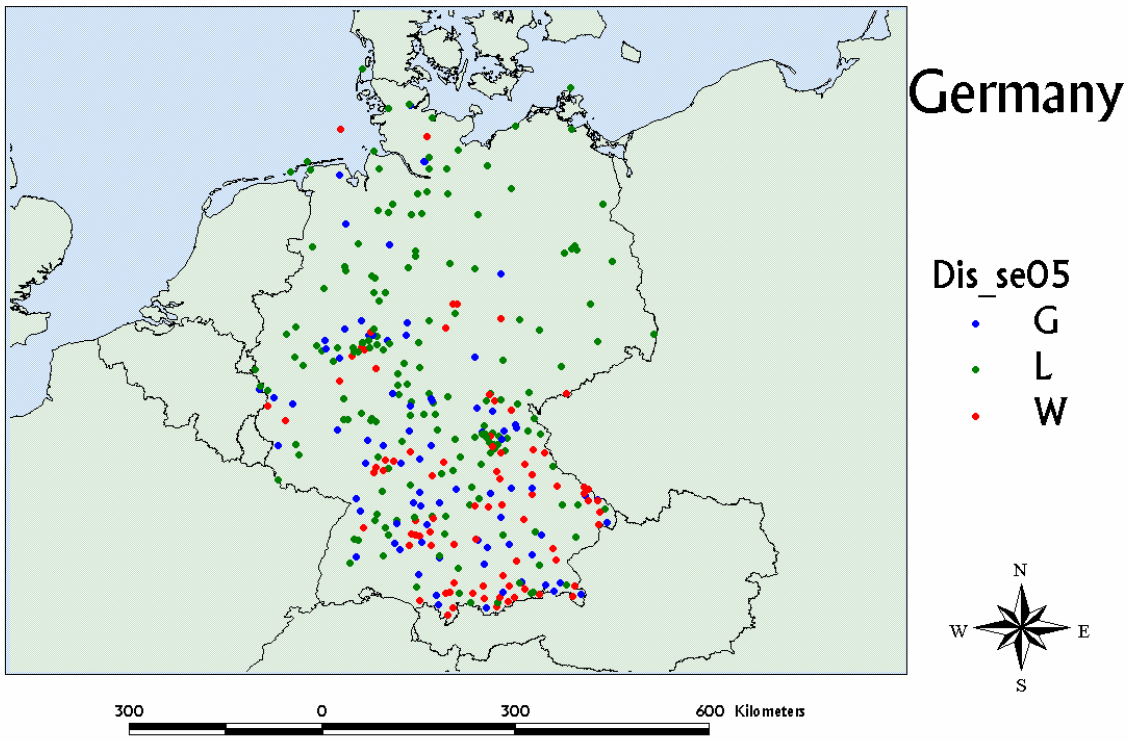
Another reason is geographical (climatic). Middle and southern Germany have a rather heterogeneous relief, many of the middle high mountains are cut by the valleys. This causes very strong differences between local climatic conditions.

The application of the approach described in section 4.3.3 (ie. probability plot, LSM, coefficient of correlation between reduced variable and snow load values) shows the following results for the 331 meteorological stations in Germany:

- Gumbel distribution is the best fitting PDF for 78 stations
- Log-normal distribution is the best fitting PDF for 171 stations
- Weibull distribution is the best fitting PDF for 82 stations

Thus the log-normal distribution fits best in 52%, Gumbel in 23%, and Weibull in 25% of all stations. The locations of the stations with the different PDFs can be seen from Fig A3.4.

*Figure A3.4 Location of stations with different best fitting PDF in Germany*




The colours of this map mean the following:

- blue - station with Gumbel distribution as the best fitting PDF
- green - station with Log-normal distribution as the best fitting PDF
- red - station with Weibull distribution as the best fitting PDF

From this map it can be seen that northwards of the middle high mountains (51-52 degree of north latitude) a log-normal distribution dominates. The northern lowland (Norddeutsche Tiefebene) and almost all eastern Germany (the former DDR) belong to this region.

Southwards of this latitude the map is very heterogeneous. In the middle high mountains Hessische Bergland, Taunus, Fichtelgebirge and also in the flatland of low Rhein (Niederrhein) the Log-normal distribution dominates again.

The Log-normal PDF also prevails in more than 50% of stations in Rothaargebirge (mixed with Gumbel and Weibull), Fränkische Schweiz (with Gumbel and Weibull), Frankenwald (with Weibull), Schwarzwald (with Gumbel), and Rhön (with Gumbel).

The Weibull PDF dominates in Odenwald, Böhmerwald, Bayerischer Wald (mixed with Log-normal), Frankische Alb (with Gumbel), in Harz and in the high western Alps (Allgäuer Alpen).

The Gumbel PDF dominates in Sauerland, Weser-Bergland (mixed with Log-normal), Donau Ebene (mixed with Weibull), Oberschwaben (mixed with Log-normal) and in the high eastern Alps (Chiemgauer Alpen).

In some mountain regions the best fitting PDF depends obviously on the wind direction. For example in northern Eifel the Log-normal distribution dominates, on the south-eastern slopes Gumbel is the prevailing PDF. There is a very complicated situation in Schwäbische Alb: Gumbel dominates in the North, Log-normal - on the north-western slopes and in the West, Weibull - on south-eastern slopes. A mixed picture is also observed in Taubergrund, where only in the east does the Log-normal PDF dominate.

All the above confirms the complexity of the choice of the PDF for a large regions. For future research it isrecommended that to solve this problem it will be necessary to work together with meteorological people taking into account local climatic conditions. As a pragmatic decision for Germany the following rough procedure can be proposed:

- In regions northwards of the middle high mountains (ie 51-52 degree of north latitude) the Log-normal distribution should be used in order o calculate the characteristic values of snow load.
- In middle and southern Germany the Gumbel distribution should be used in order to calculate the characteristic values of snow load, even in regions where Weibull dominates. This is because in comparison with the Weibull PDF Gumbel gives slightly larger 50 year MRI values (i.e. is on the safe side).

Switzerland

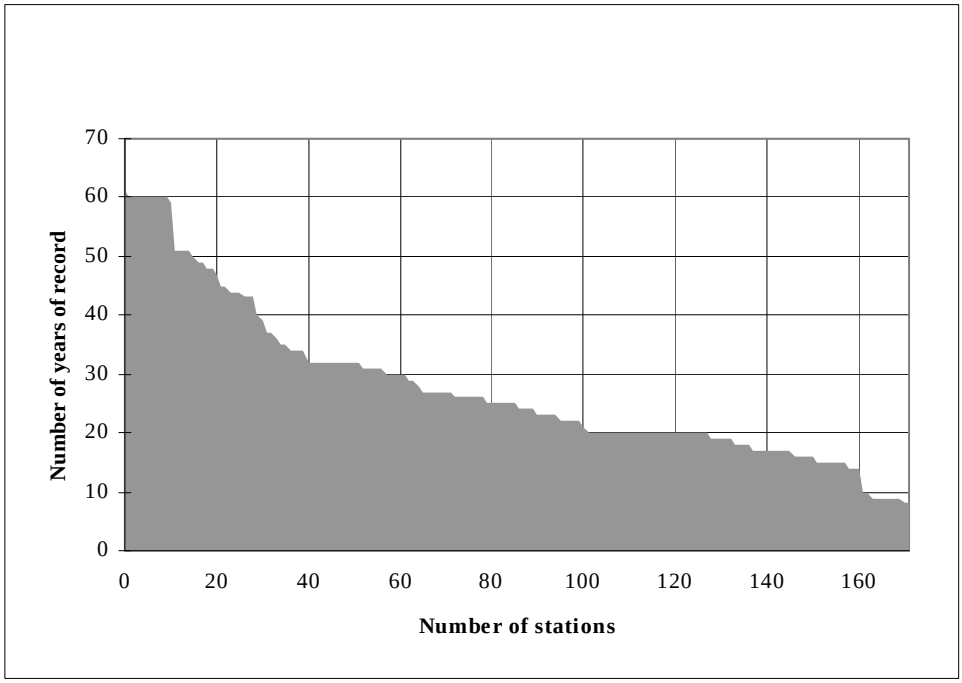
*Ground snow load data base*

The following data base was used for the probabilistic analysis of ground snow data:

- 105 meteorological stations of the National Meteorological Institute of Switzerland (SMA) with a station altitude between 261 maSL (Rheinfelden), 275 maSL (Lugano) and 2500 maSL (Säntis), measuring snow depth twice a day, determining the snow load from the snow depth using the depletion model of Martinec, 1977 and Rohrer, 1992.
- 63 meteorological stations of the Snow and Avalanche Research Institute at Davos (SLF), with a station altitude between 1090 maSL (Oberiberg) and 2540 maSL (Weissfluhjoch) measuring water-equivalent every one, and partly every two, week.

A histogram for the number of years of records can be seen from the following figure. Stations with period of measurement of less than 8 years are excluded.

*Figure A3.5: Number of years of record of ground snow depth or water-equivalents*




*Statistics of data sets*

As a general statistical analysis the data sets of the annual maximum snow depth or water-equivalent values for all stations are investigated. The mean and the standard deviation versus altitude of all data sets are shown in figure A3.5, the coefficient of variation versus altitude in figure A3.6. As can be seen from this figure the variation of the data decreases with increasing altitude. A remarkable difference between the two data sets is also apparent: The SLF-data seem to be far more homogeneous, which is due to water-equivalent measurements and the fact that SLF records are at a greater altitude and therefore also show larger snow load values.

*FigureA3.5: Mean and standard deviation versus altitude*

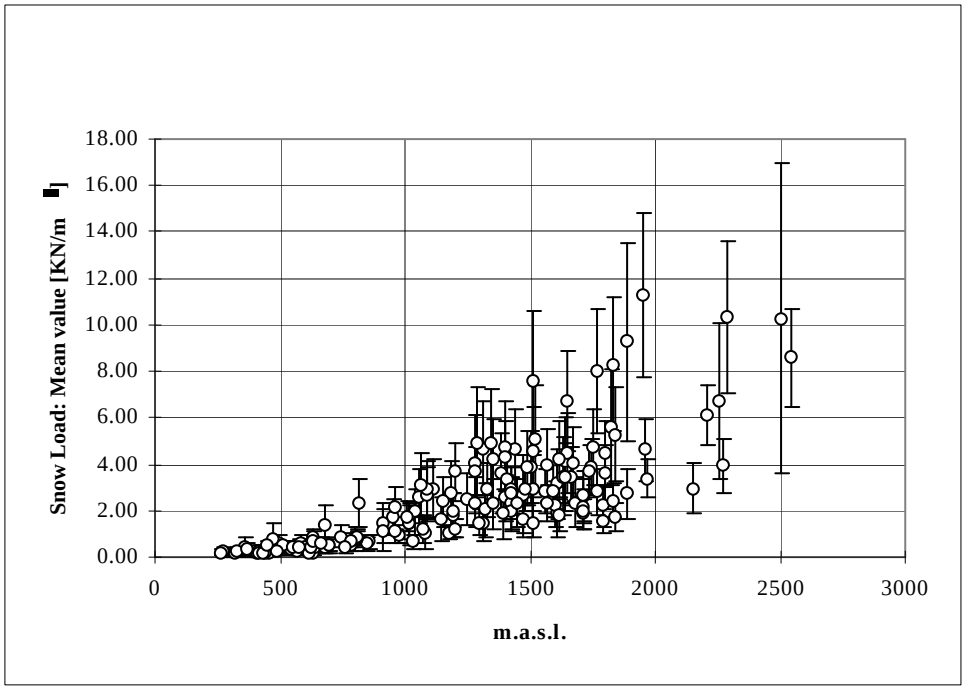
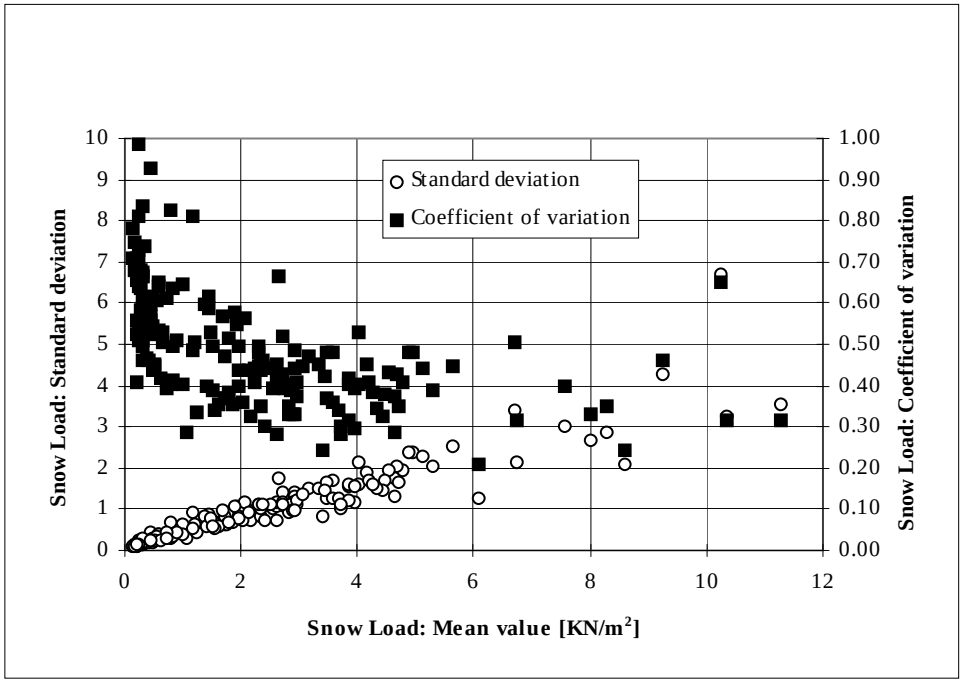


*Figure A3.6: Standard deviation and Coefficient of variation versus mean of yearly maximum snow load*



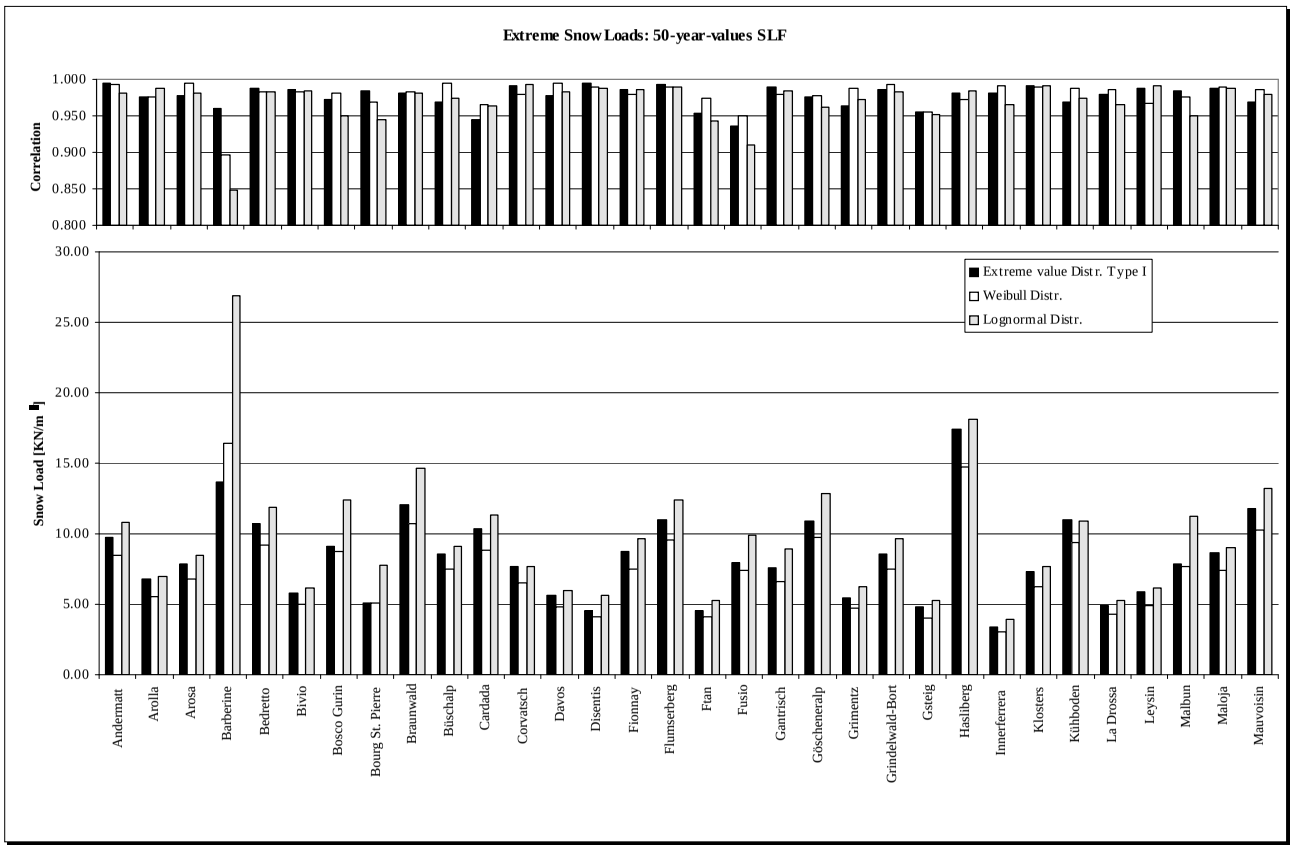

For the verification of data further research work would be required, such as (examples)

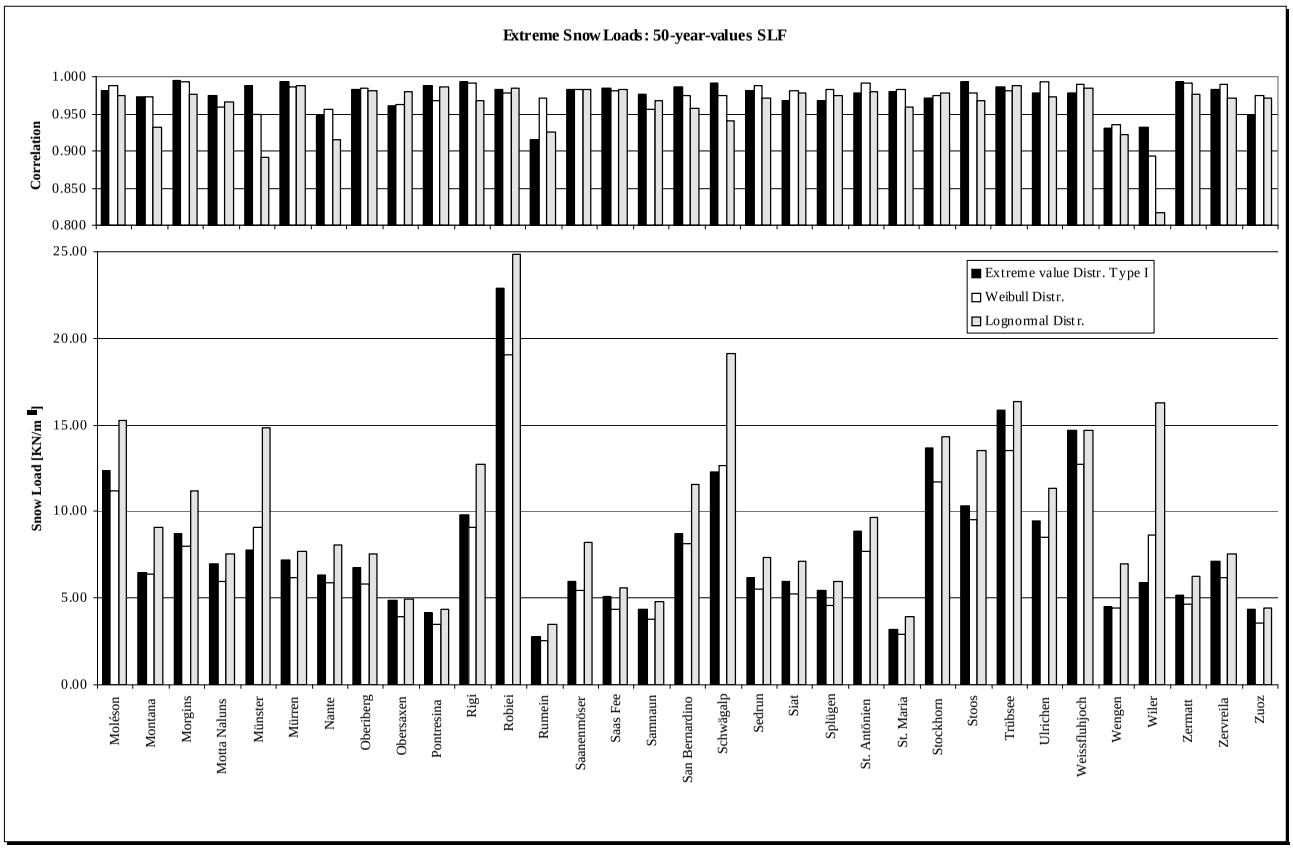
- data checking
  The data from Snow and Avalanche Institute (SLF) is checked thorougly. No irrelevant measuring or data transmission errors should be found if rechecked. For the values of the National Meteorological Institute (SMA) two data sets for each station exist. There are different values, a check of the correctness of these data would be very time-consuming. In general the differences were not high. A reasonable result can be expected.
- influence of different periods of measurement
  As shown in figure A3.4 the number of years of observations is very different. For the present study all maximum values are considered. Possibly influencing criteria, such as smoothing of extremes over a longer period of records, changes of climate, are not taken into account,.
- influence of different measuring techniques
  As discussed for figures A3.5 and A3.6 different measuring techniques give different values of standard deviation and coefficients of variation. Further elaboration of this phenomenon might lead to interesting results.

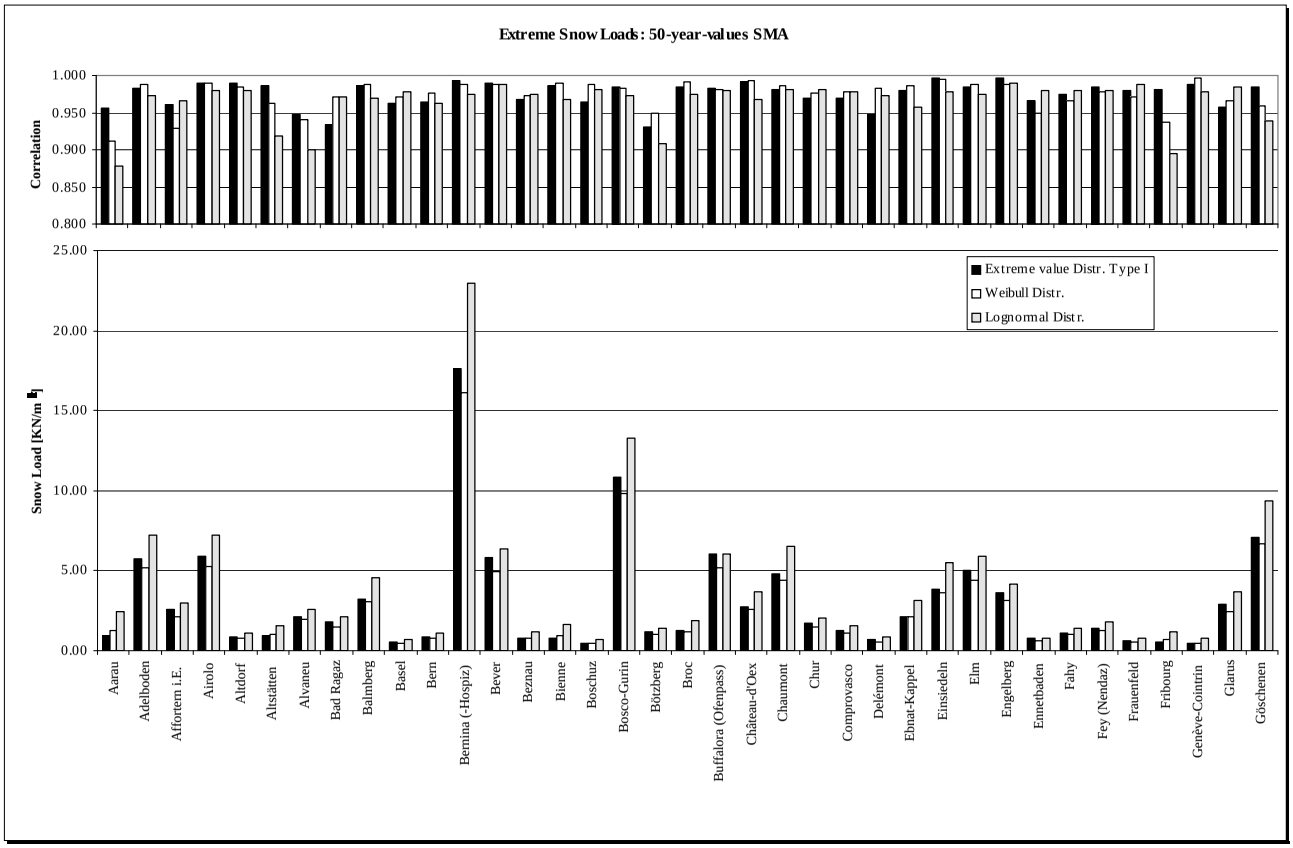
*Different types of probability distribution functions*

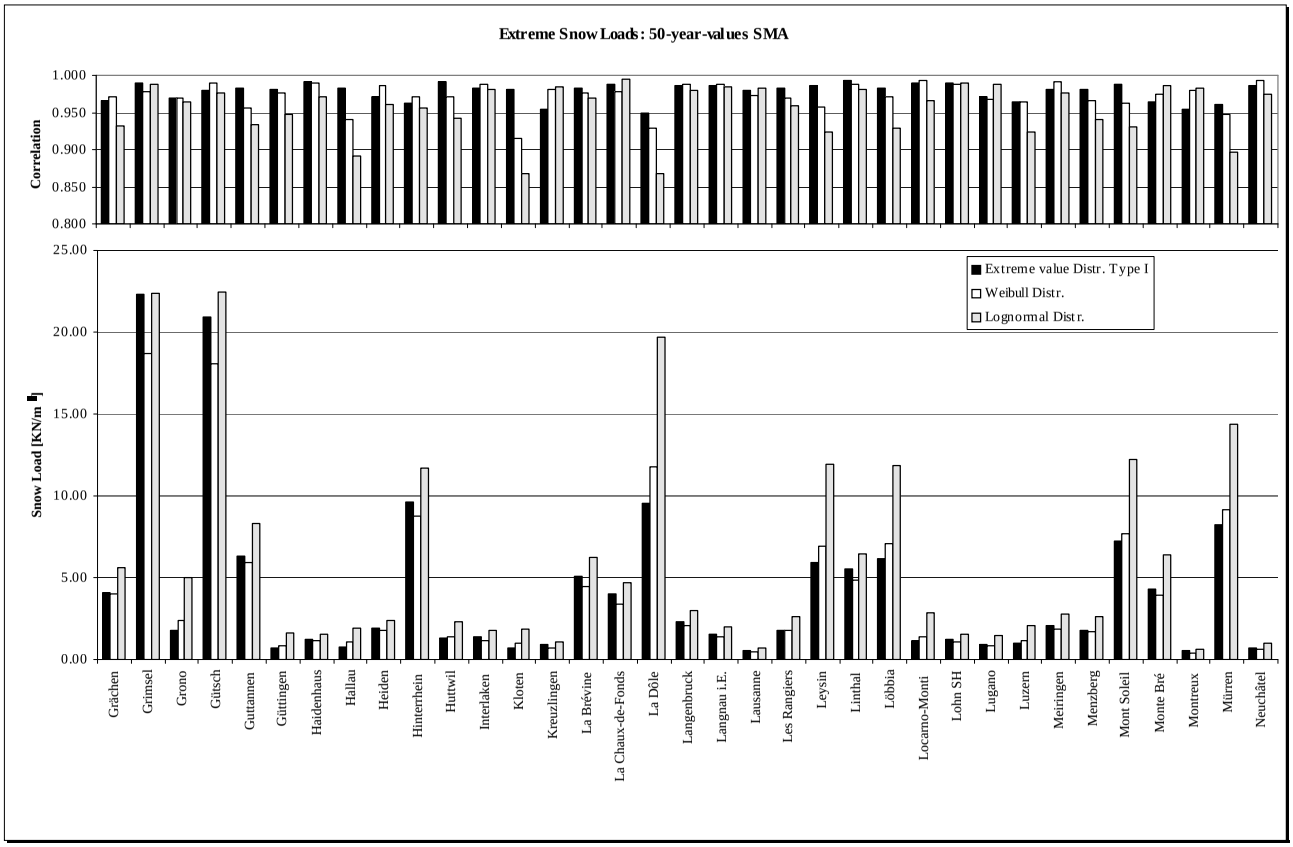
As described in section 4.2 and 4.3 different types of pdf are discussed. The following figures show a detailed analysis of all the stations of the two data sets of ground snow loads.

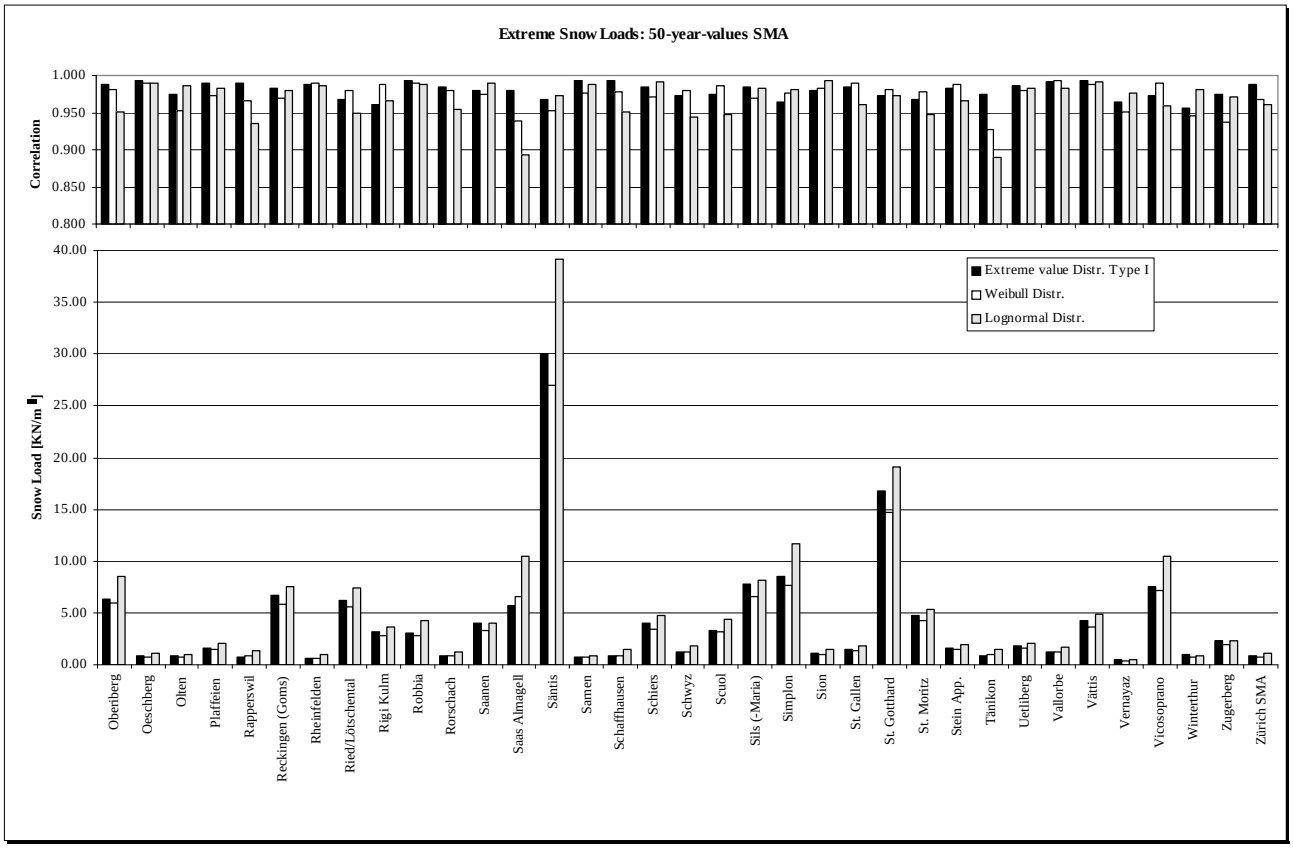
*Figure A3.7: 50 yr - MRI ground snow load and correlation coefficient for a sample of meteorological stations*




Extreme Snow Loads: 50-year-values SMA
Correlation
1.000
0.950
0.900
0.850
0.800
Snow Load [KN/m²]
25.00
20.00
15.00
10.00
5.00
0.00
Extreme value Distr. Type I
Weibull Distr.
Lognormal Distr.
Aarau
Adelboden
Affoltern i.E.
Airolo
Altdorf
Altstätten
Alvaneu
Bad Ragaz
Balmberg
Basel
Bern
Bernina (-Hospiz)
Bever
Beznau
Bienne
Boschuz
Bosco-Gurin
Bötzberg
Broc
Buffalora (Ofenpass)
Château-d'Oex
Chaumont
Chur
Comprovasco
Delémont
Ebnat-Kappel
Einsiedeln
Elm
Engelberg
Ennetbaden
Fahy
Fey (Nendaz)
Frauenfeld
Fribourg
Genève-Cointrin
Glarus
Göschenen

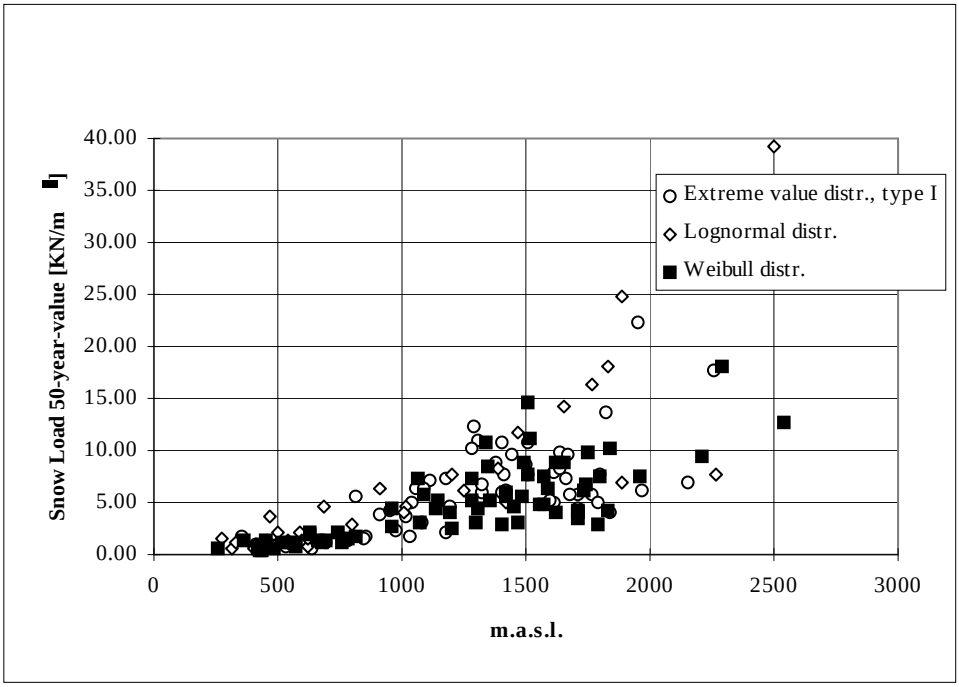

Extreme Snow Loads: 50-year-values SMA
Correlation
1.000
0.950
0.900
0.850
0.800
Snow Load [KN/m²]
25.00
20.00
15.00
10.00
5.00
0.00
Extreme value Distr. Type I
Weibull Distr.
Lognormal Distr.
Grächen
Grimsel
Grono
Gütsch
Guttannen
Güttingen
Haidenhaus
Hallau
Heiden
Hinterrhein
Huttwil
Interlaken
Kloten
Kreuzlingen
La Brévine
La Chaux-de-Fonds
La Dôle
Langenbruck
Langnau i.E.
Lausanne
Les Rangiers
Leysin
Linthal
Löbbia
Locarno-Monti
Lohn SH
Lugano
Luzern
Meiringen
Menzberg
Mont Soleil
Monte Bré
Montreux
Mürren
Neuchâtel




From these figures the following conclusions can be drawn:

- $R^2$-difference (square of Coefficient of Correlation)
  In general all stations show relatively small $R^2$-difference for the different pdf with some extreme exceptions, to be discussed later.
- The number of stations of each best fitting pdf is as follows:
  - 68 Gumbel
  - 66 Weibull
  - 34 Log-normal
- 50 yr MRI ground snow load differences
  The difference in the 50 yr MRI ground snow load for the different pdfs is generally relatively small. Again there are some stations with huge differences.
- stations with big differences of the $R^2$-coefficients and the 50 yr MRI ground snow loads
  Most of these stations show the best $R^2$-coefficients for the Gumbel-distribution, for which the smallest 50 yr MRI ground snow load has been determined.
- influence of altitude on the selection of the pdf
  As can be seen from figure A3.8 most stations at high altitude have of course high 50 yr MRI ground snow load and - what is interesting - have the Gumbel distribution as best fitting pdf; the Log-normal distribution is best fitting for low stations and the Weibull-distribution for stations at all altitudes. From other investigations this result might be expected.

*Figure A3.8: Probabilistic distribution function and 50 yr MRI ground snow load versus altitude for all meteorological stations*




From the probabilistic analysis of the ground snow data some interesting results have been found. More detailed research work will be necessary to reduce consistently the uncertainties mentioned at the beginning of this annex. Of particular interest would be the analysis of the data in other (neighbouring) countries.

## A4 European Snow Load Data Set

### *A4.1 European Snow Loads Data Set*

The table below lists the whole European snow data set, with the calculated ordinary characteristic snow data for each station. Also marked, with a star, are the climatic stations where exceptional values have been encountered, further information on which can be found in A4.2

*Table A4.1 European Snow Loads Data Base*

| Country | CODE | NAME | LON (DD) | LAT (DD) | ALTITUDE (m) | LOAD (kN/m2) | NYRS | EXCEPT. LOAD |
|---|---|---|---|---|---|---|---|---|
| AT | 9500 | ABTENAU | 13.33 | 47.55 | 714 | 5.25 | 34 | |
| AT | 9900 | ADMONT | 14.45 | 47.57 | 646 | 3.63 | 37 | |
| AT | 9801 | AIGEN | 14.13 | 47.53 | 640 | 2.56 | 35 | |
| AT | 5700 | ALTENMARKT/TRIESTING | 16.00 | 48.02 | 397 | 2.93 | 33 | |
| AT | 5315 | AMSTETTEN | 14.87 | 48.12 | 275 | 1.77 | 43 | |
| AT | 10600 | ASPANG | 16.08 | 47.55 | 498 | 2.70 | 37 | |
| AT | 9640 | BAD AUSSEE | 13.78 | 47.62 | 665 | 5.14 | 40 | |
| AT | 20001 | BAD BLEIBERG | 13.67 | 46.62 | 907 | 5.67 | 34 | |
| AT | 19201 | BAD GLEICHENBERG | 15.90 | 46.87 | 303 | 2.67 | 50 | |
| AT | 9605 | BAD GOISERN | 13.62 | 47.63 | 510 | 4.39 | 35 | |
| AT | 9610 | BAD ISCHL | 13.63 | 47.72 | 469 | 3.79 | 50 | |
| AT | 9700 | BAD MITTERNDORF | 13.95 | 47.55 | 803 | 5.32 | 33 | |
| AT | 5870 | BADEN | 16.23 | 48.00 | 249 | 1.94 | 37 | |
| AT | 15515 | BADGASTEIN | 13.12 | 47.08 | 1100 | 3.66 | 50 | |
| AT | 13701 | BERNSTEIN | 16.25 | 47.40 | 600 | 2.29 | 48 | |
| AT | 12504 | BISCHOFSHOFEN | 13.22 | 47.40 | 550 | 3.69 | 33 | |
| AT | 11104 | BREGENZ | 9.75 | 47.50 | 436 | 2.13 | 50 | |
| AT | 14801 | BRENNER | 11.52 | 47.00 | 1450 | 5.74 | 50 | |
| AT | 13301 | BRUCK/MUR | 15.27 | 47.42 | 489 | 2.50 | 50 | |
| AT | 6000 | BRUCKNEUDORF | 16.83 | 48.00 | 167 | 1.48 | 36 | |
| AT | 14100 | BUERS | 9.82 | 47.13 | 567 | 3.19 | 50 | |
| AT | 19700 | DELLACH | 13.08 | 46.73 | 620 | 4.78 | 35 | |
| AT | 10800 | DEUTSCHKREUTZ | 16.62 | 47.60 | 192 | 1.65 | 42 | |
| AT | 18905 | DEUTSCHLANDSBERG | 15.22 | 46.83 | 410 | 2.85 | 36 | |
| AT | 18000 | DOELLACH | 12.90 | 46.95 | 1010 | 4.55 | 50 | |
| AT | 7704 | EISENSTADT | 16.53 | 47.85 | 184 | 1.49 | 50 | |
| AT | 5103 | ENNS | 14.48 | 48.22 | 260 | 1.70 | 47 | |
| AT | 15300 | ENZINGERBODEN | 12.62 | 47.17 | 1480 | 6.10 | 34 | |
| AT | 11115 | FELDKIRCH | 9.62 | 47.27 | 440 | 1.98 | 50 | |
| AT | 20200 | FERLACH | 14.30 | 46.53 | 470 | 3.91 | 37 | |
| AT | 6611 | FEUERKOGEL | 13.72 | 47.82 | 1618 | 12.30 | 50 | |
| AT | 1601 | FREISTADT | 14.50 | 48.52 | 548 | 1.66 | 50 | |
| AT | 18600 | FRIESACH | 14.42 | 46.95 | 634 | 2.33 | 37 | |
| AT | 6020 | FUCHSENBIGL | 16.73 | 48.18 | 149 | 1.18 | 42 | |
| AT | 16600 | FUERSTENFELD | 16.07 | 47.02 | 273 | 2.37 | 36 | |
| AT | 4801 | GALLSPACH | 13.82 | 48.20 | 400 | 1.89 | 31 | |
| AT | 17002 | GALTUER | 10.18 | 46.95 | 1648 | 8.05 | 50 | |
| AT | 16500 | GLEISDORF | 15.72 | 47.12 | 375 | 2.34 | 37 | |
| AT | 6620 | GMUNDEN | 13.78 | 47.92 | 424 | 2.72 | 50 | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| AT | 16400 | GRAZ-FLUGHAFEN | 15.43 | 46.98 | 340 | 2.30 | 40 | |
| AT | 16412 | GRAZ-UNIVERSITAET | 15.45 | 47.08 | 366 | 1.99 | 43 | |
| AT | 5972 | GROSSENZERSDORF | 16.55 | 48.18 | 153 | 1.28 | 40 | |
| AT | 6910 | GROSSRAMING | 14.52 | 47.88 | 379 | 2.45 | 45 | |
| AT | 3600 | GUTENBRUNN-MARTINSBERG | 15.15 | 48.38 | 810 | 4.72 | 40 | |
| AT | 14600 | HAIMING | 10.85 | 47.25 | 695 | 2.81 | 32 | |
| AT | 9410 | HALLEIN | 13.10 | 47.68 | 450 | 2.97 | 36 | |
| AT | 10000 | HIEFL AU | 14.75 | 47.60 | 492 | 4.65 | 50 | |
| AT | 5000 | HOERSCHING | 14.18 | 48.23 | 297 | 1.39 | 42 | |
| AT | 2600 | HOHEN AU/MARCH | 16.90 | 48.62 | 155 | 1.36 | 50 | |
| AT | 11400 | HOLZG AU | 10.35 | 47.27 | 1100 | 6.60 | 50 | |
| AT | 14512 | IMST | 10.73 | 47.23 | 910 | 3.31 | 37 | |
| AT | 11804 | INNSBRUCK-FLUGPLATZ | 11.35 | 47.27 | 578 | 2.98 | 37 | |
| AT | 11803 | INNSBRUCK-UNIVERSITAET | 11.40 | 47.27 | 577 | 2.58 | 44 | |
| AT | 9811 | IRDNING-GUMPENSTEIN | 14.10 | 47.50 | 710 | 2.79 | 44 | |
| AT | 700 | JAPONS | 15.57 | 48.78 | 520 | 1.70 | 37 | |
| AT | 15343 | KALS | 12.65 | 47.00 | 1347 | 4.80 | 37 | |
| AT | 20100 | KANZELHOEHE | 13.90 | 46.68 | 1526 | 7.51 | 50 | |
| AT | 13610 | KIRCHBERG-GRAFENDORF | 15.98 | 47.35 | 452 | 1.84 | 34 | |
| AT | 9000 | KIRCHBICHL | 12.08 | 47.52 | 498 | 3.86 | 31 | |
| AT | 12200 | KITZBUEHEL | 12.40 | 47.45 | 763 | 4.70 | 35 | |
| AT | 20212 | KLAGENFURT | 14.33 | 46.65 | 447 | 2.70 | 48 | |
| AT | 3500 | KOENIGSWIESEN | 14.83 | 48.40 | 608 | 2.75 | 28 | |
| AT | 18100 | KOLBNITZ | 13.30 | 46.88 | 603 | 3.53 | 37 | |
| AT | 1400 | KOLLERSCHLAG | 13.83 | 48.60 | 725 | 4.95 | 50 | |
| AT | 19710 | KORNAT | 12.88 | 46.68 | 1037 | 7.13 | 50 | |
| AT | 3805 | KREMS | 15.62 | 48.42 | 207 | 1.06 | 49 | |
| AT | 5010 | KREMSMUENSTER | 14.13 | 48.05 | 383 | 2.37 | 50 | |
| AT | 9620 | KRIPPENSTEIN | 13.70 | 47.52 | 2050 | 23.29 | 41 | |
| AT | 9010 | KUFSTEIN | 12.17 | 47.58 | 495 | 3.40 | 50 | |
| AT | 2400 | LAA/THAYA | 16.38 | 48.72 | 187 | 1.84 | 37 | |
| AT | 4900 | LAMBACH | 13.87 | 48.08 | 360 | 1.44 | 46 | |
| AT | 14403 | LANDECK | 10.58 | 47.15 | 785 | 2.82 | 50 | |
| AT | 14310 | LANGEN AM ARLBERG | 10.12 | 47.13 | 1218 | 10.73 | 45 | |
| AT | 4081 | LANGENLEBARN | 16.12 | 48.32 | 177 | 1.92 | 35 | |
| AT | 3811 | LANGENLOIS | 15.70 | 48.47 | 210 | 1.09 | 32 | |
| AT | 19020 | LEIBNITZ | 15.52 | 46.78 | 332 | 2.53 | 37 | |
| AT | 17901 | LIENZ | 12.80 | 46.83 | 659 | 4.78 | 50 | |
| AT | 3202 | LINZ | 14.28 | 48.30 | 263 | 1.31 | 50 | |
| AT | 500 | LITSCH AU | 15.03 | 48.95 | 564 | 3.03 | 37 | |
| AT | 18200 | LITZLHOF | 13.43 | 46.83 | 580 | 3.27 | 33 | |
| AT | 16300 | LOBMING | 15.18 | 47.05 | 400 | 2.50 | 37 | |
| AT | 21100 | LOIBL-TUNNEL | 14.25 | 46.45 | 1067 | 6.78 | 37 | |
| AT | 18110 | MALLNITZ | 13.17 | 46.97 | 1185 | 5.47 | 50 | |
| AT | 7200 | MARIAZELL | 15.32 | 47.77 | 875 | 5.41 | 50 | |
| AT | 6411 | MATTSEE | 13.10 | 47.97 | 508 | 3.30 | 37 | |
| AT | 15001 | MAYRHOFEN | 11.85 | 47.15 | 643 | 4.00 | 50 | |
| AT | 10500 | MOENICHKIRCHEN | 16.05 | 47.50 | 980 | 4.28 | 37 | |
| AT | 6510 | MONDSEE | 13.37 | 47.83 | 491 | 3.20 | 42 | |
| AT | 15310 | MOOSERBODEN | 12.72 | 47.17 | 2036 | 11.05 | 48 | * |
| AT | 10400 | MUERZZUSCHLAG | 15.68 | 47.60 | 755 | 3.44 | 50 | |
| AT | 17100 | NAUDERS | 10.50 | 46.90 | 1360 | 4.76 | 37 | |
| AT | 16015 | NEUMARKT IN STEIERMARK | 14.43 | 47.08 | 842 | 2.43 | 40 | |
| AT | 7905 | NEUSIEDL AM SEE | 16.85 | 47.93 | 129 | 1.71 | 50 | |
| AT | 17300 | OBERGURGL | 11.02 | 46.87 | 1938 | 8.72 | 45 | |
| AT | 2410 | OBERLEIS | 16.37 | 48.55 | 420 | 2.68 | 50 | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| AT | 16900 | OBERVERMUNT | 10.08 | 46.92 | 2040 | 13.10 | 34 | |
| AT | 15900 | OBERWOELZ | 14.28 | 47.20 | 810 | 2.49 | 37 | |
| AT | 3410 | PABNEUKIRCHEN | 14.83 | 48.33 | 595 | 2.92 | 50 | |
| AT | 16910 | PARTENEN | 10.05 | 46.97 | 1028 | 7.48 | 34 | |
| AT | 14812 | PATSCHERKOFEL | 11.47 | 47.22 | 2247 | 10.67 | 50 | |
| AT | 2503 | POYSDORF | 16.63 | 48.67 | 208 | 1.61 | 32 | |
| AT | 18805 | PREITENEGG | 14.92 | 46.93 | 1035 | 4.10 | 37 | |
| AT | 14520 | PRUTZ | 10.67 | 47.07 | 870 | 3.05 | 30 | |
| AT | 7500 | PUCHBERG AM SCHNEEBERG | 15.90 | 47.78 | 580 | 2.59 | 37 | |
| AT | 18300 | RADENTHEIN | 13.70 | 46.78 | 685 | 2.47 | 39 | |
| AT | 12615 | RADSTADT | 13.45 | 47.38 | 845 | 4.73 | 37 | |
| AT | 4501 | RANSHOFEN | 13.03 | 48.22 | 382 | 1.57 | 33 | |
| AT | 15402 | RAURIS | 13.00 | 47.22 | 945 | 3.09 | 50 | |
| AT | 10510 | REICHENAU AN DER RAX | 15.83 | 47.70 | 486 | 2.02 | 50 | |
| AT | 2900 | REICHERSBERG | 13.37 | 48.33 | 350 | 1.51 | 49 | |
| AT | 19800 | REISACH | 13.15 | 46.65 | 646 | 6.06 | 37 | |
| AT | 901 | RETZ | 15.95 | 48.75 | 256 | 1.13 | 48 | |
| AT | 11505 | REUTTE | 10.75 | 47.50 | 870 | 4.70 | 37 | |
| AT | 4700 | RIED IM INNKREIS | 13.48 | 48.22 | 435 | 1.90 | 37 | |
| AT | 14820 | RINN | 11.48 | 47.23 | 900 | 2.27 | 37 | |
| AT | 1415 | ROHRBACH | 14.00 | 48.57 | 602 | 3.39 | 49 | |
| AT | 6300 | SALZBURG-FLUGHAFEN | 13.00 | 47.80 | 434 | 1.68 | 44 | |
| AT | 12310 | SCHMITTENHOEHE | 12.73 | 47.33 | 1973 | 15.98 | 45 | |
| AT | 16421 | SCHOECKL | 15.47 | 47.20 | 1445 | 6.16 | 48 | |
| AT | 11200 | SCHOPPERNAU | 10.02 | 47.30 | 835 | 6.59 | 50 | |
| AT | 11300 | SCHROECKEN | 10.08 | 47.27 | 1263 | 11.59 | 50 | |
| AT | 7400 | SCHWARZAU IM GEBIRGE | 15.87 | 47.80 | 612 | 3.88 | 37 | |
| AT | 1900 | SCHWARZENAU | 15.27 | 48.73 | 500 | 1.58 | 36 | * |
| AT | 5990 | SCHWECHAT | 16.57 | 48.12 | 178 | 1.79 | 45 | |
| AT | 13110 | SECKAU | 14.78 | 47.28 | 874 | 2.41 | 49 | * |
| AT | 11705 | SEEFELD | 11.17 | 47.33 | 1200 | 6.49 | 48 | |
| AT | 7710 | SEIBERSDORF | 16.50 | 47.97 | 185 | 1.61 | 33 | |
| AT | 10410 | SEMMERING | 15.82 | 47.62 | 1000 | 5.71 | 44 | |
| AT | 19505 | SILLIAN | 12.43 | 46.75 | 1075 | 7.09 | 37 | |
| AT | 15410 | SONNBLICK | 12.95 | 47.05 | 3105 | 35.82 | 50 | |
| AT | 18705 | ST.ANDRAE IM LAVANTTAL | 14.83 | 46.77 | 404 | 2.13 | 37 | |
| AT | 14300 | ST.ANTON AM ARLBERG | 10.27 | 47.13 | 1280 | 6.94 | 37 | |
| AT | 17700 | ST.JAKOB IN DEFEREGGEN | 12.35 | 46.92 | 1400 | 5.55 | 50 | |
| AT | 5604 | ST.POELTEN | 15.62 | 48.20 | 272 | 2.04 | 50 | |
| AT | 16411 | ST.RADEGUND | 15.48 | 47.18 | 725 | 2.80 | 37 | |
| AT | 18620 | ST.VEIT AN DER GLAN | 14.35 | 46.75 | 475 | 2.51 | 37 | |
| AT | 9511 | ST.WOLFGANG | 13.45 | 47.73 | 575 | 3.87 | 31 | |
| AT | 1920 | STIFT ZWETTL | 15.20 | 48.62 | 505 | 1.84 | 50 | |
| AT | 15910 | STOLZALPE | 14.20 | 47.12 | 1305 | 4.21 | 50 | |
| AT | 15710 | TAMSWEG | 13.80 | 47.12 | 1012 | 3.42 | 50 | |
| AT | 6900 | TERNBERG | 14.35 | 47.95 | 350 | 1.49 | 37 | |
| AT | 14630 | UMHAUSEN | 10.93 | 47.13 | 1036 | 2.95 | 37 | |
| AT | 12220 | UTTENDORF | 12.57 | 47.27 | 796 | 3.11 | 35 | |
| AT | 20123 | VILLACH | 13.87 | 46.62 | 493 | 3.41 | 50 | |
| AT | 20021 | VILLACHERALPE | 13.67 | 46.60 | 2140 | 12.12 | 49 | * |
| AT | 7011 | WAIDHOFEN/YBBS | 14.77 | 47.97 | 365 | 2.48 | 37 | |
| AT | 3110 | WAIZENKIRCHEN | 13.87 | 48.33 | 370 | 1.94 | 50 | |
| AT | 19821 | WEISSENSEE | 13.28 | 46.72 | 945 | 5.16 | 37 | |
| AT | 1800 | WEITRA | 14.88 | 48.68 | 580 | 2.05 | 37 | |
| AT | 16520 | WEIZ | 15.63 | 47.22 | 465 | 2.05 | 37 | |
| AT | 20600 | WIEL | 15.12 | 46.73 | 900 | 4.82 | 37 | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| AT | 5904 | WIEN-HOHE WARTE | 16.35 | 48.23 | 203 | 2.52 | 37 | |
| AT | 5805 | WIEN-MARIABRUNN | 16.23 | 48.20 | 226 | 1.62 | 50 | |
| AT | 9919 | WINDISCHGARSTEN | 14.33 | 47.73 | 600 | 5.20 | 35 | |
| AT | 16710 | WOERTERBERG | 16.08 | 47.22 | 400 | 1.79 | 50 | |
| AT | 4810 | WOLFSEGG | 13.67 | 48.10 | 660 | 3.13 | 37 | |
| AT | 7604 | WR.NEUSTADT-FLUGPL. | 16.22 | 47.83 | 285 | 1.67 | 36 | |
| AT | 12322 | ZELL AM SEE | 12.78 | 47.32 | 766 | 3.66 | 50 | |
| AT | 15011 | ZELL AM ZILLER | 11.92 | 47.23 | 585 | 3.36 | 33 | |
| AT | 16101 | ZELTWEG | 14.78 | 47.20 | 669 | 2.12 | 34 | * |
| BE | 458 | BEAUVECHAIN | 4.46 | 50.45 | 127 | 0.51 | 28 | |
| BE | 478 | BIERSET | 5.27 | 50.39 | 178 | 1.00 | 26 | |
| BE | 432 | CHIEVRES | 3.50 | 50.34 | 63 | 0.34 | 23 | |
| BE | 450 | DEURNE | 4.28 | 51.12 | 10 | 0.29 | 29 | |
| BE | 496 | ELSENBORN | 6.11 | 50.29 | 570 | 1.23 | 11 | |
| BE | 456 | FLORENNES | 4.39 | 50.14 | 299 | 0.94 | 30 | |
| BE | 449 | GOSSELIES | 4.27 | 50.28 | 193 | 0.41 | 12 | |
| BE | 479 | KLEINE BROGEL | 5.28 | 51.10 | 64 | 0.60 | 12 | * |
| BE | 400 | KOKSIJDE | 2.39 | 51.05 | 9 | 0.40 | 30 | |
| BE | 407 | MIDDELKERKE | 2.52 | 51.12 | 5 | 0.35 | 22 | |
| BE | 476 | SAINT HUBERT | 5.24 | 50.02 | 558 | 1.09 | 31 | |
| BE | 490 | SPA | 5.54 | 50.29 | 483 | 0.68 | 11 | |
| BE | 451 | ZAVENTEM | 4.32 | 50.54 | 39 | 0.37 | 30 | |
| CH | 6780 | Aarau | 8.05 | 47.37 | 408 | 0.96 | 20 | |
| CH | 5270 | Adelboden | 7.57 | 46.45 | 1355 | 5.75 | 25 | |
| CH | 6520 | Affortern i.E. | 7.73 | 47.03 | 802 | 2.57 | 17 | |
| CH | 9030 | Airolo | 8.60 | 46.53 | 1149 | 5.92 | 20 | |
| CH | 4140 | Altdorf | 8.67 | 46.85 | 451 | 0.84 | 32 | |
| CH | 0920 | Altstätten | 9.53 | 47.38 | 465 | 0.98 | 30 | |
| CH | 0510 | Alvaneu | 9.65 | 46.68 | 1175 | 2.09 | 19 | |
| CH | 2AN | Andermatt | 8.60 | 46.63 | 1440 | 9.69 | 51 | |
| CH | 4AO | Arolla | 7.48 | 46.03 | 1890 | 6.80 | 9 | |
| CH | 5AR | Arosa | 9.68 | 46.78 | 1740 | 7.89 | 17 | |
| CH | 0780 | Bad Ragaz | 9.50 | 47.02 | 496 | 1.84 | 32 | |
| CH | 6570 | Balmberg | 7.55 | 47.27 | 1075 | 3.22 | 17 | |
| CH | 4BB | Barberine | 6.93 | 46.07 | 1820 | 13.65 | 27 | |
| CH | 1940 | Basel | 7.57 | 47.50 | 316 | 0.56 | 60 | |
| CH | 6BO | Bedretto | 8.52 | 46.50 | 1400 | 10.75 | 29 | |
| CH | 5520 | Bern | 7.40 | 46.88 | 570 | 0.88 | 60 | |
| CH | 9610 | Bernina (-Hospiz) | 10.02 | 46.42 | 2256 | 17.62 | 19 | |
| CH | 9850 | Bever | 9.97 | 46.55 | 1712 | 5.79 | 51 | |
| CH | 6970 | Beznau | 8.23 | 47.55 | 327 | 0.80 | 22 | |
| CH | 6370 | Bienne | 7.27 | 47.13 | 434 | 0.81 | 31 | |
| CH | 5BI | Bivio | 9.65 | 46.47 | 1770 | 5.84 | 34 | |
| CH | 6090 | Boschuz | 6.52 | 46.73 | 437 | 0.48 | 18 | |
| CH | 9340 | Bosco-Gurin | 8.50 | 46.32 | 1510 | 10.84 | 20 | |
| CH | 6940 | Bötzberg | 8.15 | 47.48 | 514 | 1.21 | 15 | |
| CH | 4BP | Bourg St. Pierre | 7.22 | 45.95 | 1610 | 5.05 | 45 | |
| CH | 3BR | Braunwald | 8.98 | 46.93 | 1340 | 12.07 | 37 | |
| CH | 5670 | Broc | 7.12 | 46.62 | 680 | 1.27 | 20 | |
| CH | 9870 | Buffalora (Ofenpass) | 10.27 | 46.65 | 1968 | 6.09 | 19 | |
| CH | 5BU | Büschalp | 9.77 | 46.82 | 1960 | 8.61 | 51 | |
| CH | 6CA | Cardada | 8.78 | 46.20 | 1650 | 10.37 | 16 | |
| CH | 5610 | Château-d'Oex | 7.12 | 46.47 | 956 | 2.78 | 50 | |
| CH | 6350 | Chaumont | 6.98 | 47.05 | 1141 | 4.77 | 20 | |
| CH | 0640 | Chur | 8.57 | 46.83 | 586 | 1.75 | 32 | |
| CH | 9090 | Comprovasco | 8.93 | 46.45 | 552 | 1.23 | 20 | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| CH | 7CO | Corvatsch | 9.82 | 46.43 | 2270 | 7.70 | 20 | |
| CH | 5DF | Davos | 9.85 | 46.82 | 1560 | 5.59 | 51 | |
| CH | 1800 | Delémont | 7.35 | 47.37 | 416 | 0.67 | 31 | |
| CH | 5DI | Disentis | 8.85 | 46.70 | 1190 | 4.60 | 31 | |
| CH | 2060 | Ebnat-Kappel | 9.12 | 47.27 | 629 | 2.14 | 25 | |
| CH | 3800 | Einsiedeln | 8.75 | 47.13 | 914 | 3.87 | 60 | |
| CH | 3180 | Elm | 9.17 | 46.92 | 962 | 5.01 | 25 | |
| CH | 4410 | Engelberg | 8.43 | 46.78 | 1018 | 3.62 | 60 | |
| CH | 3980 | Ennetbaden | 8.32 | 47.48 | 420 | 0.76 | 16 | |
| CH | 8640 | Fahy | 6.95 | 47.43 | 596 | 1.14 | 21 | |
| CH | 7570 | Fey (Nendaz) | 7.27 | 46.18 | 780 | 1.39 | 16 | |
| CH | 4FY | Fionnay | 7.30 | 46.03 | 1500 | 8.73 | 26 | |
| CH | 3FB | Flumserberg | 9.30 | 47.05 | 1310 | 10.95 | 26 | |
| CH | 2600 | Frauenfeld | 8.88 | 47.55 | 403 | 0.66 | 16 | |
| CH | 5740 | Fribourg | 7.12 | 46.77 | 634 | 0.58 | 26 | |
| CH | 7FA | Ftan | 10.25 | 46.80 | 1710 | 4.52 | 22 | |
| CH | 6FU | Fusio | 8.67 | 46.45 | 1280 | 7.90 | 8 | |
| CH | 1GT | Gantrisch | 7.43 | 46.72 | 1510 | 7.61 | 18 | |
| CH | 8440 | Genève-Cointrin | 6.13 | 46.25 | 430 | 0.50 | 60 | |
| CH | 3210 | Glarus | 9.10 | 47.03 | 470 | 2.92 | 30 | |
| CH | 4080 | Göschenen | 8.58 | 46.67 | 1111 | 7.05 | 23 | |
| CH | 2GA | Göscheneralp | 8.50 | 46.65 | 1750 | 10.91 | 9 | |
| CH | 7220 | Grächen | 7.83 | 46.20 | 1617 | 4.07 | 20 | |
| CH | 4GR | Grimentz | 7.58 | 46.18 | 1570 | 5.43 | 9 | |
| CH | 5010 | Grimsel | 8.33 | 46.57 | 1950 | 22.33 | 27 | |
| CH | 1GB | Grindelwald-Bort | 8.05 | 46.65 | 1570 | 8.54 | 43 | |
| CH | 9200 | Grono | 9.15 | 46.25 | 357 | 1.81 | 20 | |
| CH | 1GS | Gsteig | 7.27 | 46.22 | 1195 | 4.80 | 9 | |
| CH | 4020 | Gütsch | 8.63 | 46.62 | 2288 | 20.91 | 20 | |
| CH | 5030 | Guttannen | 8.30 | 46.65 | 1055 | 6.28 | 27 | |
| CH | 1080 | Güttingen | 9.22 | 47.57 | 438 | 0.70 | 15 | |
| CH | 1150 | Haidenhaus | 9.02 | 47.65 | 694 | 1.22 | 27 | |
| CH | 1430 | Hallau | 8.47 | 47.70 | 450 | 0.80 | 27 | |
| CH | 1HB | Hasliberg | 8.22 | 46.77 | 1830 | 17.44 | 24 | |
| CH | 0980 | Heiden | 9.53 | 47.45 | 811 | 1.90 | 32 | |
| CH | 0280 | Hinterrhein | 9.17 | 46.48 | 1619 | 9.63 | 20 | |
| CH | 6600 | Huttwil | 7.85 | 47.12 | 639 | 1.29 | 20 | |
| CH | 5IN | Innerferrera | 9.43 | 46.53 | 1470 | 3.42 | 32 | |
| CH | 5190 | Interlaken | 7.88 | 46.63 | 574 | 1.35 | 32 | |
| CH | 5KK | Klosters | 9.88 | 46.87 | 1200 | 7.34 | 49 | |
| CH | 2940 | Kloten | 8.50 | 47.43 | 431 | 0.68 | 20 | |
| CH | 1110 | Kreuzlingen | 9.17 | 47.65 | 446 | 0.89 | 35 | |
| CH | 4KU | Kühboden | 8.10 | 46.42 | 2210 | 10.94 | 9 | |
| CH | 6300 | La Brévine | 6.60 | 46.98 | 1042 | 5.07 | 20 | |
| CH | 8545 | La Chaux-de-Fonds | 6.80 | 47.08 | 1018 | 3.99 | 59 | |
| CH | 8280 | La Dôle | 6.12 | 46.42 | 1672 | 9.54 | 18 | |
| CH | 7LD | La Drossa | 10.18 | 46.65 | 1710 | 4.89 | 34 | |
| CH | 6710 | Langenbruck | 7.77 | 47.35 | 740 | 2.32 | 28 | |
| CH | 6480 | Langnau i.E. | 7.80 | 46.93 | 692 | 1.55 | 32 | |
| CH | 8130 | Lausanne | 6.65 | 46.53 | 618 | 0.57 | 20 | |
| CH | 1780 | Les Rangiers | 7.22 | 47.38 | 856 | 1.76 | 20 | |
| CH | 1LS | Leysin | 7.00 | 46.35 | 1250 | 5.92 | 31 | |
| CH | 3120 | Linthal | 8.95 | 46.87 | 812 | 5.55 | 22 | |
| CH | 9745 | Löbbia | 9.67 | 46.38 | 1420 | 6.16 | 15 | |
| CH | 9400 | Locarno-Monti | 8.83 | 46.13 | 366 | 1.12 | 48 | |
| CH | 1260 | Lohn SH | 8.67 | 47.75 | 623 | 1.25 | 19 | |

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|---|---|---|---|---|---|---|---|---|
| CH | 9480 | Lugano | 8.97 | 46.00 | 275 | 0.92 | 60 | |
| CH | 4590 | Luzern | 8.28 | 47.02 | 456 | 0.97 | 32 | |
| CH | 3MB | Malbun | 9.62 | 47.10 | 1610 | 7.87 | 24 | |
| CH | 7MA | Maloja | 9.70 | 46.40 | 1800 | 8.69 | 44 | |
| CH | 4MV | Mauvoisin | 7.35 | 46.00 | 1840 | 11.81 | 26 | |
| CH | 5070 | Meiringen | 8.20 | 46.73 | 632 | 2.05 | 32 | |
| CH | 4660 | Menzberg | 8.00 | 47.03 | 1035 | 1.73 | 17 | |
| CH | 1MN | Moléson | 7.02 | 46.55 | 1520 | 12.38 | 23 | |
| CH | 6390 | Mont Soleil | 7.00 | 47.17 | 1180 | 7.25 | 22 | |
| CH | 4MO | Montana | 7.47 | 46.30 | 1590 | 6.46 | 20 | |
| CH | 9460 | Monte Bré | 8.98 | 46.02 | 910 | 4.34 | 16 | |
| CH | 8020 | Montreux | 6.90 | 46.45 | 405 | 0.50 | 40 | |
| CH | 1MI | Morgins | 6.85 | 46.23 | 1380 | 8.75 | 34 | |
| CH | 7MT | Motta Naluns | 10.27 | 46.85 | 2150 | 7.00 | 10 | |
| CH | 4MS | Münster | 8.27 | 46.48 | 1410 | 7.77 | 44 | |
| CH | 1MR | Mürren | 7.88 | 46.55 | 1660 | 7.23 | 48 | |
| CH | 6NT | Nante | 8.62 | 46.52 | 1420 | 6.30 | 14 | |
| CH | 6340 | Neuchâtel | 6.93 | 46.95 | 485 | 0.67 | 60 | |
| CH | 3760 | Oberiberg | 8.78 | 47.03 | 1090 | 6.30 | 27 | |
| CH | 5OB | Obersaxen | 9.10 | 46.92 | 1420 | 4.89 | 15 | |
| CH | 6580 | Oeschberg | 7.62 | 47.13 | 482 | 0.81 | 30 | |
| CH | 6750 | Olten | 7.90 | 47.35 | 413 | 0.87 | 26 | |
| CH | 5769 | Plaffeien | 7.30 | 46.73 | 850 | 1.61 | 18 | |
| CH | 7PO | Pontresina | 9.90 | 46.50 | 1840 | 4.13 | 8 | |
| CH | 3500 | Rapperswil | 8.83 | 47.22 | 410 | 0.75 | 20 | |
| CH | 7050 | Reckingen (Goms) | 8.25 | 46.47 | 1325 | 6.75 | 17 | |
| CH | 1560 | Rheinfelden | 7.78 | 47.55 | 261 | 0.65 | 29 | |
| CH | 7270 | Ried/Lötschental | 7.80 | 46.42 | 1480 | 6.15 | 17 | |
| CH | 2RI | Rigi | 8.47 | 47.05 | 1640 | 9.82 | 36 | |
| CH | 4305 | Rigi Kulm | 8.50 | 47.03 | 1794 | 3.21 | 27 | |
| CH | 9670 | Robbia | 10.07 | 46.35 | 1078 | 2.99 | 30 | |
| CH | 6RO | Robiei | 8.52 | 46.45 | 1890 | 22.92 | 23 | |
| CH | 1010 | Rorschach | 9.50 | 47.48 | 420 | 0.81 | 15 | |
| CH | 5RU | Rumein | 9.17 | 46.72 | 1200 | 2.76 | 14 | |
| CH | 5590 | Saanen | 7.25 | 46.48 | 1008 | 3.96 | 15 | |
| CH | 1SM | Saanenmöser | 7.30 | 46.53 | 1390 | 5.95 | 9 | |
| CH | 7160 | Saas Almagell | 7.95 | 46.10 | 1680 | 5.76 | 20 | |
| CH | 4SF | Saas Fee | 7.93 | 46.10 | 1790 | 5.08 | 26 | |
| CH | 7SN | Samnaun | 10.37 | 46.95 | 1710 | 4.38 | 9 | |
| CH | 6SB | San Bernardino | 9.20 | 46.47 | 1630 | 8.69 | 25 | |
| CH | 2220 | Säntis | 9.37 | 47.22 | 2500 | 30.00 | 60 | |
| CH | 4560 | Sarnen | 8.25 | 46.90 | 479 | 0.78 | 22 | |
| CH | 1300 | Schaffhausen | 8.63 | 47.65 | 457 | 0.85 | 31 | |
| CH | 0700 | Schiers | 9.68 | 46.98 | 682 | 4.01 | 24 | |
| CH | 3SW | Schwägalp | 9.32 | 47.25 | 1290 | 12.32 | 26 | |
| CH | 4270 | Schwyz | 8.63 | 47.02 | 448 | 1.25 | 20 | |
| CH | 9930 | Scuol | 10.33 | 46.77 | 1295 | 3.30 | 32 | |
| CH | 5SE | Sedrun | 8.77 | 46.68 | 1420 | 6.17 | 32 | |
| CH | 5SI | Siat | 9.17 | 46.80 | 1280 | 5.98 | 17 | |
| CH | 9810 | Sils (-Maria) | 9.77 | 46.43 | 1802 | 7.74 | 20 | |
| CH | 9580 | Simplon | 8.05 | 46.20 | 1470 | 8.51 | 20 | |
| CH | 7500 | Sion | 7.37 | 46.23 | 542 | 1.14 | 47 | |
| CH | 5SP | Splügen | 9.32 | 46.55 | 1450 | 5.49 | 37 | |
| CH | 5SA | St. Antönien | 9.82 | 46.97 | 1510 | 8.84 | 45 | |
| CH | 1030 | St. Gallen | 9.33 | 47.40 | 664 | 1.40 | 32 | |
| CH | 9010 | St. Gotthard | 8.60 | 46.50 | 1510 | 16.73 | 39 | |

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|---|---|---|---|---|---|---|---|---|
| CH | 7ST | St. Maria | 10.43 | 46.60 | 1400 | 3.17 | 30 | |
| CH | 9830 | St. Moritz | 9.83 | 46.53 | 1832 | 4.77 | 23 | |
| CH | 2300 | Stein App. | 9.37 | 47.35 | 786 | 1.63 | 25 | |
| CH | 1SH | Stockhorn | 7.53 | 46.70 | 1650 | 13.66 | 23 | |
| CH | 2ST | Stoos | 8.67 | 46.98 | 1280 | 10.29 | 43 | |
| CH | 2510 | Tänikon | 8.92 | 47.45 | 536 | 0.84 | 20 | |
| CH | 2TR | Trübsee | 8.40 | 46.80 | 1770 | 15.85 | 44 | |
| CH | 3880 | Uetliberg | 8.48 | 47.35 | 810 | 1.80 | 20 | |
| CH | 4UL | Ulrichen | 8.30 | 46.52 | 1350 | 9.44 | 34 | |
| CH | 6060 | Vallorbe | 6.38 | 46.70 | 762 | 1.26 | 14 | |
| CH | 0760 | Vättis | 9.43 | 46.90 | 948 | 4.23 | 25 | |
| CH | 7775 | Vernayaz | 7.03 | 46.13 | 453 | 0.51 | 15 | |
| CH | 9750 | Vicosoprano | 9.62 | 46.35 | 1065 | 7.57 | 20 | |
| CH | 5WJ | Weissfluhjoch | 9.82 | 46.83 | 2540 | 14.70 | 61 | |
| CH | 1WE | Wengen | 7.92 | 46.62 | 1310 | 4.51 | 10 | |
| CH | 4WI | Wiler | 7.78 | 46.40 | 1400 | 5.89 | 24 | |
| CH | 2790 | Winterthur | 8.77 | 47.48 | 495 | 0.95 | 19 | |
| CH | 4ZE | Zermatt | 7.75 | 46.02 | 1600 | 5.13 | 49 | |
| CH | 5ZV | Zervreila | 9.12 | 46.58 | 1735 | 7.13 | 35 | |
| CH | 4810 | Zugerberg | 8.53 | 47.12 | 975 | 2.30 | 17 | |
| CH | 7ZU | Zuoz | 9.97 | 46.60 | 1710 | 4.37 | 43 | |
| CH | 3700 | Zürich SMA | 8.53 | 47.33 | 556 | 0.87 | 60 | |
| DE | 2205 | AACHEN (WST) | 6.10 | 50.78 | 202 | 0.75 | 33 | |
| DE | 70111 | ACHBERG-DOBERATSWEILER | 9.70 | 47.60 | 503 | 1.32 | 30 | |
| DE | 56019 | ACHIM | 9.05 | 53.02 | 28 | 1.02 | 31 | |
| DE | 71151 | ADELBERG | 9.60 | 48.77 | 474 | 1.30 | 24 | |
| DE | 71038 | ALBSTADT-BURGFELDEN | 8.93 | 48.23 | 911 | 1.41 | 20 | |
| DE | 51409 | ALSFELD-REIBERTENROD | 9.25 | 50.77 | 269 | 0.62 | 27 | |
| DE | 73312 | ALTDORF | 11.37 | 49.38 | 423 | 1.05 | 26 | |
| DE | 71329 | ALTHENGSTETT-OTTENBRONN | 8.75 | 48.73 | 530 | 1.45 | 31 | |
| DE | 3058 | ANGERMUENDE (WST) | 14.00 | 53.03 | 56 | 0.88 | 44 | |
| DE | 1536 | ANNATURM | 9.50 | 52.25 | 395 | 2.29 | 14 | |
| DE | 3005 | ARKONA (WST) | 13.43 | 54.68 | 42 | 0.63 | 43 | * |
| DE | 1585 | ARNSBERG | 8.07 | 51.38 | 218 | 1.06 | 33 | |
| DE | 92431 | ASCHAU | 12.32 | 47.77 | 620 | 3.79 | 31 | |
| DE | 78796 | ATTENDORN | 7.92 | 51.12 | 307 | 1.04 | 28 | |
| DE | 73366 | AUFSESS-HOCHSTAHL | 11.27 | 49.88 | 435 | 0.95 | 20 | |
| DE | 4128 | AUGSBURG-MUEHLH.(WST) | 10.93 | 48.43 | 461 | 1.11 | 34 | |
| DE | 60105 | AUGUSTDORF | 8.73 | 51.90 | 163 | 1.06 | 21 | |
| DE | 2764 | AULENDORF-SPIEGLER | 9.67 | 47.97 | 560 | 1.33 | 16 | |
| DE | 4064 | BAMBERG (WST) | 10.92 | 49.88 | 239 | 0.75 | 23 | |
| DE | 90347 | BARTHOLOMAE | 10.00 | 48.75 | 642 | 2.06 | 10 | |
| DE | 91301 | BAYERISCH EISENSTEIN | 13.20 | 49.12 | 710 | 4.04 | 18 | |
| DE | 4070 | BAYREUTH | 11.55 | 49.95 | 330 | 0.60 | 33 | |
| DE | 1473 | BEDERKESA | 8.83 | 53.63 | 27 | 0.81 | 17 | * |
| DE | 2667 | BEERFELDEN | 8.97 | 49.57 | 450 | 1.51 | 33 | |
| DE | 92054 | BENEDIKTBEUERN | 11.42 | 47.70 | 630 | 2.41 | 29 | |
| DE | 4536 | BERCHTESGADEN | 13.02 | 47.63 | 550 | 3.25 | 26 | |
| DE | 51217 | BERLEBURG,BAD-GIRKHAUSEN | 8.45 | 51.12 | 510 | 2.06 | 29 | |
| DE | 51213 | BERLEBURG,BAD-WINGESHS. | 8.28 | 51.07 | 450 | 1.91 | 31 | |
| DE | 51229 | BERLEBURG,BAD-WUNDERTHS. | 8.52 | 51.10 | 543 | 3.01 | 31 | |
| DE | 51220 | BERLEBURG,BAD (NST) | 8.38 | 51.07 | 470 | 2.09 | 31 | |
| DE | 3319 | BERLIN-DAHLEM (MET.INST) | 13.30 | 52.47 | 51 | 1.00 | 32 | |
| DE | 46571 | BERLIN-LICHTERFELDE OST | 13.33 | 52.42 | 45 | 1.07 | 30 | |
| DE | 3312 | BERLIN-ZEHLENDORF | 13.23 | 52.43 | 45 | 1.34 | 17 | |
| DE | 2110 | BERUS (WST) | 6.68 | 49.27 | 363 | 0.94 | 23 | |

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|---|---|---|---|---|---|---|---|---|
| DE | 73729 | BISCHOFSHEIM/RHOEN | 10.00 | 50.40 | 465 | 1.05 | 10 | |
| DE | 90302 | BLAUBEUREN-SEISSEN | 9.75 | 48.42 | 701 | 1.79 | 11 | |
| DE | 91463 | BOGEN-PFELLING | 12.75 | 48.88 | 345 | 1.16 | 29 | |
| DE | 1083 | BORKUM | 6.75 | 53.57 | 5 | 0.67 | 25 | |
| DE | 3984 | BRAUNLAGE (WST) | 10.60 | 51.73 | 607 | 5.44 | 33 | |
| DE | 3916 | BRAUNSCHWEIG-VOELK.(WST) | 10.45 | 52.30 | 81 | 0.87 | 23 | |
| DE | 1474 | BREMEN (FLUGWEWA) | 8.80 | 53.05 | 4 | 0.59 | 31 | * |
| DE | 52119 | BRILON-BONTKIRCHEN | 8.65 | 51.35 | 435 | 1.45 | 23 | |
| DE | 2282 | BRUECKEN | 7.12 | 49.63 | 390 | 1.04 | 33 | |
| DE | 2685 | BUCHEN,KR.NECKAR-ODW. | 9.32 | 49.52 | 350 | 0.99 | 31 | |
| DE | 90262 | BUCHENBERG | 10.23 | 47.70 | 898 | 5.12 | 29 | |
| DE | 90712 | BURK-MEIERNDORF | 10.50 | 49.15 | 436 | 1.18 | 18 | |
| DE | 4412 | CHEMNITZ (WST) | 12.87 | 50.80 | 418 | 1.44 | 44 | |
| DE | 1511 | CLOPPENBURG | 8.07 | 52.85 | 42 | 0.96 | 12 | |
| DE | 4040 | COBURG (WST) | 10.98 | 50.28 | 322 | 0.89 | 33 | |
| DE | 1478 | CUXHAVEN (WST) | 8.70 | 53.87 | 5 | 0.66 | 30 | * |
| DE | 80127 | DAHLEM-SCHMIDTHEIM | 6.55 | 50.42 | 565 | 1.42 | 30 | |
| DE | 2662 | DARMSTADT (WST) | 8.60 | 49.85 | 108 | 0.77 | 32 | |
| DE | 90771 | DASSWANG | 11.67 | 49.15 | 521 | 1.28 | 21 | |
| DE | 90743 | DENKENDORF | 11.45 | 48.92 | 518 | 0.64 | 10 | |
| DE | 2278 | DEUSELBACH (WST) | 7.05 | 49.77 | 408 | 1.41 | 23 | |
| DE | 1519 | DIEPHOLZ (WST) | 8.35 | 52.58 | 39 | 0.80 | 22 | |
| DE | 3360 | DOBERLUG-KIRCHHAIN (WST) | 13.58 | 51.65 | 97 | 0.92 | 34 | |
| DE | 1192 | DUESSELDORF (FLUGWEWA) | 6.77 | 51.30 | 37 | 0.46 | 13 | |
| DE | 4058 | EBRACH | 10.48 | 49.85 | 360 | 1.21 | 19 | |
| DE | 51342 | EDERTAL-EDERSEE | 9.07 | 51.18 | 250 | 0.62 | 27 | |
| DE | 73419 | EGLOFFSTEIN-BIEBERBACH | 11.30 | 49.73 | 510 | 1.69 | 31 | |
| DE | 4108 | EICHSTAETT | 11.17 | 48.90 | 397 | 0.84 | 16 | |
| DE | 3216 | EISLEBEN-HELFTA | 11.57 | 51.50 | 146 | 0.90 | 23 | |
| DE | 4100 | ELLWANGEN/JAGST | 10.13 | 48.97 | 443 | 1.36 | 33 | |
| DE | 92457 | ENGELSBERG | 12.55 | 48.12 | 500 | 1.39 | 27 | |
| DE | 2691 | EPPINGEN | 8.92 | 49.13 | 210 | 0.68 | 32 | |
| DE | 92127 | ERESING (ST.OTTILIEN) | 11.05 | 48.10 | 590 | 1.16 | 23 | |
| DE | 4200 | ERFURT-BIND. (FLUGWEWA) | 10.97 | 50.98 | 316 | 0.95 | 44 | |
| DE | 51206 | ERNDTEBRUECK | 8.25 | 51.00 | 500 | 2.42 | 30 | |
| DE | 74039 | ESCHAU-WILDENSEE | 9.35 | 49.83 | 378 | 0.74 | 31 | |
| DE | 1190 | ESSEN-BREDENEY (WST) | 6.97 | 51.40 | 152 | 0.69 | 33 | |
| DE | 90625 | EURASBURG-FREIENRIED | 11.13 | 48.33 | 529 | 1.14 | 31 | |
| DE | 4029 | FICHTELB./OFR-HUETTSTADL | 11.83 | 49.98 | 659 | 4.20 | 32 | |
| DE | 4428 | FICHTELBERG (WST) | 12.95 | 50.43 | 1213 | 9.47 | 44 | |
| DE | 51321 | FRANKENAU | 8.93 | 51.10 | 420 | 1.10 | 31 | |
| DE | 2641 | FRANKFURT/M-FELDBERGSTR | 8.67 | 50.12 | 103 | 0.75 | 11 | |
| DE | 2560 | FRANKFURT/M.(STADT) | 8.68 | 50.15 | 125 | 0.65 | 21 | |
| DE | 91223 | FREUDENBERG-WUTSCHDORF | 11.98 | 49.48 | 500 | 1.11 | 26 | |
| DE | 70510 | FREUDENSTADT-KNIEBIS | 8.32 | 48.47 | 875 | 6.20 | 31 | |
| DE | 2751 | FREUDENSTADT (WST) | 8.42 | 48.45 | 795 | 5.24 | 31 | |
| DE | 4156 | GARMISCH-PARTENK. (WST) | 11.07 | 47.48 | 719 | 3.35 | 33 | |
| DE | 92221 | GEISENHAUSEN | 12.27 | 48.48 | 467 | 0.91 | 31 | |
| DE | 2240 | GEISENHEIM (AMBF) | 7.95 | 49.98 | 118 | 0.48 | 32 | |
| DE | 60429 | GEORGSMARIENHUETTE | 8.07 | 52.20 | 133 | 0.57 | 28 | |
| DE | 90592 | GERSTHOFEN | 10.88 | 48.45 | 455 | 0.66 | 31 | |
| DE | 73367 | GLASHUETTEN,KR.BAYREUTH | 11.45 | 49.88 | 423 | 1.25 | 16 | |
| DE | 71147 | GOEPPINGEN-FAURNDAU | 9.62 | 48.72 | 361 | 0.89 | 28 | |
| DE | 90556 | GOERISRIED | 10.52 | 47.70 | 795 | 2.56 | 30 | |
| DE | 3380 | GOERLITZ (WST) | 14.95 | 51.17 | 238 | 0.97 | 44 | |
| DE | 4068 | GOESSWEINSTEIN | 11.33 | 49.77 | 450 | 1.39 | 31 | |

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|---|---|---|---|---|---|---|---|---|
| DE | 1564 | GOETTINGEN (WST) | 9.95 | 51.50 | 167 | 0.74 | 33 | |
| DE | 73334 | GRAEFENBERG | 11.25 | 49.65 | 477 | 1.67 | 18 | |
| DE | 3016 | GRAIFSWALD (WST) | 13.40 | 54.10 | 2 | 1.45 | 17 | |
| DE | 4514 | GRAINET-REHBERG | 13.62 | 48.80 | 655 | 4.04 | 26 | |
| DE | 71738 | GRASELLENBACH-SCHARBACH | 8.82 | 49.62 | 522 | 1.70 | 15 | |
| DE | 2633 | GREBENHAIN-HERCHENHAIN | 9.27 | 50.48 | 608 | 3.15 | 25 | |
| DE | 73021 | GREUSSEN | 11.62 | 49.85 | 440 | 1.02 | 30 | |
| DE | 4491 | GROSSER FALKENSTEIN (WST) | 13.28 | 49.08 | 1307 | 9.84 | 32 | |
| DE | 2723 | GSCHWEND,KR.OSTALB | 9.73 | 48.93 | 492 | 1.73 | 33 | |
| DE | 3218 | HALLE-STADT | 11.98 | 51.48 | 104 | 0.71 | 21 | |
| DE | 51269 | HALLENBERG | 8.63 | 51.12 | 417 | 2.15 | 17 | |
| DE | 1459 | HAMBURG-FUHLS (FLUGWEWA) | 10.00 | 53.63 | 13 | 0.71 | 32 | * |
| DE | 54936 | HANNOVER-HERRENHAUSEN | 9.67 | 52.40 | 50 | 0.67 | 31 | |
| DE | 1538 | HANNOVER-LANG. (FLUGWEWA) | 9.68 | 52.47 | 55 | 0.61 | 32 | * |
| DE | 73211 | HAUNDORF-OBERERLBACH | 10.83 | 49.18 | 410 | 0.97 | 20 | |
| DE | 71767 | HEIDELBERG (KOENIGSTUHL) | 8.73 | 49.40 | 561 | 1.72 | 19 | |
| DE | 73413 | HEILIGENSTADT | 11.17 | 49.87 | 400 | 1.16 | 31 | |
| DE | 73408 | HEILIGENSTADT-HOHENPOELZ | 11.15 | 49.92 | 500 | 1.35 | 20 | |
| DE | 1040 | HELGOLAND (WST) | 7.90 | 54.18 | 4 | 0.43 | 9 | |
| DE | 43029 | HELMBRECHTS | 11.73 | 50.23 | 585 | 2.69 | 31 | |
| DE | 3915 | HELMSTEDT | 11.02 | 52.22 | 140 | 1.28 | 32 | |
| DE | 48537 | HENSTEDT-ULZBURG | 10.02 | 53.78 | 40 | 0.78 | 11 | |
| DE | 1524 | HERFORD | 8.68 | 52.13 | 77 | 0.87 | 32 | |
| DE | 2621 | HERSFELD,BAD (WST) | 9.73 | 50.85 | 273 | 0.82 | 31 | |
| DE | 51524 | HESS.LICHTENAU | 9.73 | 51.20 | 384 | 1.12 | 11 | |
| DE | 71341 | HILDRIZHAUSEN | 8.97 | 48.63 | 483 | 1.10 | 21 | |
| DE | 90245 | HINDELANG-OBERDORF,BAD | 10.38 | 47.50 | 850 | 3.71 | 31 | |
| DE | 92501 | HINTERSEE | 12.85 | 47.60 | 804 | 3.29 | 14 | |
| DE | 74059 | HOECHST/ODW.-HUMMETROTH | 8.93 | 49.78 | 340 | 0.72 | 29 | |
| DE | 4027 | HOF-HOHENSAAS (WST) | 11.88 | 50.32 | 567 | 1.52 | 33 | |
| DE | 52236 | HOFGEISMAR-HOMBRESSEN | 9.48 | 51.48 | 242 | 1.09 | 15 | |
| DE | 40153 | HOHENBERG/EGER | 12.23 | 50.10 | 505 | 1.36 | 11 | |
| DE | 4161 | HOHENPEISSENBERG (OBS) | 11.02 | 47.80 | 977 | 2.94 | 33 | |
| DE | 73365 | HOLLFELD | 11.30 | 49.93 | 423 | 0.96 | 18 | |
| DE | 1435 | HUSUM | 9.05 | 54.47 | 3 | 0.77 | 24 | |
| DE | 90290 | ILLERTISSEN | 10.12 | 48.23 | 512 | 0.99 | 20 | |
| DE | 90613 | INGOLSTADT | 11.43 | 48.75 | 367 | 0.73 | 20 | |
| DE | 92445 | INZELL | 12.75 | 47.77 | 690 | 4.20 | 22 | |
| DE | 92387 | ISEN | 12.05 | 48.20 | 510 | 1.22 | 29 | |
| DE | 4138 | ISNY | 10.05 | 47.68 | 712 | 4.38 | 33 | |
| DE | 90285 | JEDESHEIM | 10.12 | 48.20 | 518 | 0.82 | 11 | |
| DE | 4204 | JENA (STERNWARTE) | 11.58 | 50.93 | 155 | 0.74 | 71 | |
| DE | 48509 | JESTEBURG | 9.95 | 53.30 | 28 | 0.86 | 10 | |
| DE | 90341 | JETTINGEN-SCHEPPACH | 10.43 | 48.38 | 470 | 0.81 | 30 | |
| DE | 1065 | JEVER (BW) | 7.90 | 53.53 | 7 | 0.67 | 24 | |
| DE | 1594 | KAHLER ASTEN (WST) | 8.48 | 51.18 | 839 | 6.62 | 29 | |
| DE | 2698 | KARLSRUHE (WST) | 8.37 | 49.03 | 112 | 0.62 | 32 | |
| DE | 1576 | KASSEL (WST) | 9.45 | 51.30 | 231 | 0.80 | 32 | |
| DE | 4137 | KEMPTEN (WST) | 10.33 | 47.72 | 705 | 2.37 | 32 | |
| DE | 3810 | KIEL-KRONSHAGEN (WST) | 10.10 | 54.33 | 17 | 0.71 | 32 | * |
| DE | 92266 | KIRCHDORF IM WALD | 13.27 | 48.92 | 693 | 3.02 | 27 | |
| DE | 4052 | KISSINGEN,BAD (WST) | 10.08 | 50.20 | 262 | 0.72 | 33 | |
| DE | 2648 | KL.FELDBERG/TS. (WST) | 8.45 | 50.22 | 805 | 3.50 | 33 | |
| DE | 73058 | KLEINTETTAU | 11.28 | 50.48 | 680 | 4.39 | 20 | |
| DE | 92014 | KOCHEL-URFELD | 11.35 | 47.62 | 802 | 3.59 | 24 | |
| DE | 2222 | KOELN-WAHN (FLUGWEWA) | 7.17 | 50.87 | 92 | 0.61 | 23 | |

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|---|---|---|---|---|---|---|---|---|
| DE | 2221 | KOELN (BOTAN.GARTEN) | 6.97 | 50.97 | 45 | 0.52 | 30 | |
| DE | 51309 | KORBACH-RHENA | 8.80 | 51.28 | 458 | 1.55 | 20 | |
| DE | 92323 | KREUTH-GLASHUETTE | 11.65 | 47.62 | 895 | 5.91 | 28 | |
| DE | 78017 | KREUZTAL-EICHEN | 7.97 | 50.98 | 305 | 1.20 | 31 | |
| DE | 4036 | KRONACH | 11.33 | 50.23 | 306 | 0.90 | 33 | |
| DE | 92002 | KRUEN | 11.28 | 47.50 | 875 | 2.88 | 30 | |
| DE | 73947 | KUELSHEIM/BADEN | 9.52 | 49.68 | 300 | 0.75 | 21 | |
| DE | 4506 | KUMHAUSEN | 12.15 | 48.52 | 436 | 0.77 | 17 | |
| DE | 2729 | LAICHINGEN | 9.70 | 48.50 | 747 | 1.85 | 31 | |
| DE | 2678 | LAUDA-KOEN.-GERLACHSHEIM | 9.72 | 49.58 | 199 | 0.41 | 33 | |
| DE | 71201 | LAUTERBURG | 9.98 | 48.78 | 676 | 3.47 | 17 | |
| DE | 51402 | LAUTERTAL-MEICHES | 9.25 | 50.62 | 466 | 1.26 | 31 | |
| DE | 90516 | LECHBRUCK | 10.80 | 47.70 | 730 | 2.19 | 31 | |
| DE | 3400 | LEINEFELDE (WST) | 10.32 | 51.40 | 356 | 0.90 | 30 | |
| DE | 3375 | LEIPZIG | 12.42 | 51.32 | 141 | 0.93 | 35 | |
| DE | 92007 | LENGGRIES-FALL | 11.53 | 47.57 | 770 | 4.65 | 25 | |
| DE | 2717 | LENNINGEN-SCHOPFLOCH | 9.53 | 48.53 | 758 | 2.70 | 33 | |
| DE | 51315 | LICHTENFELS-RHADERN | 8.80 | 51.17 | 422 | 1.31 | 29 | |
| DE | 2646 | LIMBURG/LAHN-OFFHEIM | 8.07 | 50.42 | 185 | 0.59 | 22 | |
| DE | 3346 | LINDENBERG (OBS) | 14.12 | 52.22 | 98 | 0.88 | 44 | |
| DE | 1132 | LINGEN (WST) | 7.30 | 52.52 | 24 | 0.58 | 32 | |
| DE | 1543 | LIPPSPRINGE,BAD (WST) | 8.83 | 51.78 | 157 | 0.84 | 12 | |
| DE | 1402 | LIST AUF SYLT (WST) | 8.42 | 55.02 | 26 | 0.88 | 30 | |
| DE | 91184 | LOHMA | 12.42 | 49.62 | 500 | 1.53 | 31 | |
| DE | 90353 | LONSEE-ETTLENSCHIESS | 9.93 | 48.57 | 665 | 1.60 | 25 | |
| DE | 73158 | LUDWAG | 11.08 | 49.95 | 540 | 1.19 | 29 | |
| DE | 3877 | LUEBECK (WST) | 10.70 | 53.88 | 8 | 1.00 | 33 | |
| DE | 3901 | LUECHOW (WST) | 11.13 | 52.97 | 17 | 0.82 | 29 | |
| DE | 1168 | LUEDENSCHEID | 7.63 | 51.22 | 444 | 1.69 | 33 | |
| DE | 3891 | LUENEBURG | 10.43 | 53.27 | 11 | 0.88 | 33 | |
| DE | 3177 | MAGDEBURG (WST) | 11.60 | 52.13 | 79 | 0.84 | 48 | |
| DE | 2265 | MANDERSCHEID/EIFEL | 6.80 | 50.10 | 403 | 0.89 | 21 | |
| DE | 2695 | MANNHEIM (WST) | 8.55 | 49.52 | 96 | 0.51 | 32 | |
| DE | 2611 | MARBURG-WEHRDA | 8.77 | 50.83 | 186 | 0.86 | 33 | |
| DE | 2249 | MARIENBERG,BAD (WST) | 7.97 | 50.67 | 547 | 2.61 | 21 | |
| DE | 78143 | MARIENHEIDE-MUELLENBACH | 7.58 | 51.07 | 385 | 4.00 | 24 | |
| DE | 3050 | MARNITZ (WST) | 11.93 | 53.32 | 81 | 0.75 | 31 | |
| DE | 52122 | MARSBERG-HELMINGHAUSEN | 8.72 | 51.38 | 377 | 1.46 | 31 | |
| DE | 70612 | MARXZELL-SCHIELBERG | 8.45 | 48.85 | 434 | 1.12 | 28 | |
| DE | 51306 | MEDEBACH-KUESTELBERG | 8.60 | 51.23 | 660 | 3.30 | 28 | |
| DE | 1553 | MEINBERG,BAD | 8.98 | 51.90 | 214 | 1.08 | 28 | |
| DE | 78840 | MEINERZHAGEN (NST) | 7.65 | 51.10 | 431 | 2.11 | 31 | |
| DE | 73721 | MELLRICHSTADT-MUEHLFELD | 10.35 | 50.45 | 308 | 0.72 | 27 | |
| DE | 90332 | MINDELHEIM | 10.50 | 48.05 | 607 | 1.01 | 31 | |
| DE | 80121 | MONSCHAU | 6.23 | 50.57 | 509 | 1.85 | 31 | |
| DE | 80115 | MONSCHAU-KALTERHERBERG | 6.22 | 50.52 | 530 | 2.08 | 22 | |
| DE | 74002 | MUDAU-SCHLOSSAU | 9.15 | 49.55 | 470 | 1.59 | 31 | |
| DE | 4528 | MUEHLDORF/INN (WST) | 12.50 | 48.28 | 405 | 1.26 | 31 | |
| DE | 4119 | MUENCHEN-RIEM (FLUGWEWA) | 11.72 | 48.13 | 527 | 1.28 | 32 | |
| DE | 2753 | MUENSINGEN-APFELSTETTEN | 9.48 | 48.38 | 750 | 1.92 | 33 | |
| DE | 1153 | MUENSTER | 7.58 | 51.95 | 62 | 0.77 | 23 | |
| DE | 2721 | MURRHARDT | 9.57 | 48.97 | 344 | 1.13 | 33 | |
| DE | 90360 | NERESHEIM-ELCHINGEN | 10.27 | 48.78 | 594 | 1.00 | 24 | |
| DE | 73269 | NEUHAUS/MFR.-MOSENBERG | 11.57 | 49.67 | 393 | 1.19 | 30 | |
| DE | 2618 | NEUKIRCHEN-HAUPTSCHWENDA | 9.40 | 50.90 | 500 | 1.51 | 33 | |
| DE | 73233 | NEUMARKT/OPF. | 11.43 | 49.28 | 426 | 0.93 | 11 | |

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|---|---|---|---|---|---|---|---|---|
| DE | 1449 | NEUMUENSTER | 9.98 | 54.08 | 26 | 0.89 | 20 | |
| DE | 92273 | NEUSCHOENAU-ALTSCHOENAU | 13.47 | 48.92 | 730 | 4.06 | 22 | |
| DE | 4090 | NEUSTADT/AISCH | 10.60 | 49.60 | 315 | 0.72 | 33 | |
| DE | 4104 | NIEDERSTOTZINGEN | 10.23 | 48.53 | 451 | 2.37 | 28 | |
| DE | 32140 | NORDEN | 7.22 | 53.60 | 2 | 0.39 | 11 | * |
| DE | 1055 | NORDERNEY (WST) | 7.15 | 53.72 | 11 | 0.84 | 17 | * |
| DE | 73046 | NORDHALBEN | 11.50 | 50.38 | 621 | 3.07 | 16 | |
| DE | 2252 | NUERBURG (WST) | 6.95 | 50.33 | 627 | 2.11 | 23 | |
| DE | 4081 | NUERNBERG-KRA.(FLUGWEWA) | 11.05 | 49.50 | 314 | 0.68 | 28 | |
| DE | 4549 | OBERAUDORF | 12.18 | 47.65 | 480 | 3.50 | 33 | |
| DE | 73201 | OBERDACHSTETTEN | 10.43 | 49.42 | 430 | 0.88 | 30 | |
| DE | 90315 | OBERGUENZBURG | 10.42 | 47.85 | 738 | 2.63 | 31 | |
| DE | 90251 | OBERSTAUFEN-THALKIRCHDF. | 10.08 | 47.55 | 745 | 3.68 | 23 | |
| DE | 4144 | OBERSTDORF (WST) | 10.28 | 47.40 | 810 | 5.49 | 33 | |
| DE | 73418 | OBERTRUBACH | 11.35 | 49.70 | 435 | 0.83 | 12 | |
| DE | 4033 | OCHSENKOPF | 11.80 | 50.03 | 1019 | 10.00 | 22 | |
| DE | 2684 | OEHRINGEN (WST) | 9.52 | 49.22 | 276 | 0.71 | 32 | |
| DE | 2543 | OFFENBACH/M.(STADT) | 8.77 | 50.10 | 110 | 0.63 | 19 | |
| DE | 1516 | OSNABRUECK (WST) | 8.05 | 52.25 | 95 | 0.86 | 25 | |
| DE | 56152 | OTTERSBERG-OTTERSTEDT | 9.15 | 53.13 | 20 | 0.56 | 18 | |
| DE | 4517 | PASSAU-OBERHAUS (WST) | 13.47 | 48.58 | 409 | 1.20 | 33 | |
| DE | 73401 | PEGNITZ-TROCKAU | 11.50 | 49.83 | 535 | 1.17 | 21 | |
| DE | 92614 | PFARRKIRCHEN | 12.97 | 48.43 | 375 | 1.17 | 30 | |
| DE | 91421 | PFEFFENHAUSEN-LUDMANNSD. | 11.90 | 48.70 | 470 | 0.90 | 31 | |
| DE | 4426 | PLAUEN (MNS) | 12.13 | 50.48 | 386 | 1.09 | 34 | |
| DE | 73274 | PLECH | 11.47 | 49.65 | 440 | 1.14 | 31 | |
| DE | 90724 | POLSINGEN-DOECKINGEN | 10.77 | 48.93 | 510 | 1.32 | 31 | |
| DE | 3342 | POTSDAM (OBS) | 13.07 | 52.38 | 81 | 0.92 | 101 | * |
| DE | 73403 | POTTENSTEIN | 11.42 | 49.77 | 365 | 0.81 | 25 | |
| DE | 1454 | QUICKBORN | 9.90 | 53.73 | 27 | 0.91 | 22 | |
| DE | 1463 | QUICKBORN (AWST) | 9.88 | 53.73 | 13 | 0.32 | 4 | |
| DE | 73823 | RECHTENBACH | 9.50 | 49.98 | 360 | 0.99 | 31 | |
| DE | 4499 | REGENSBURG (WST) | 12.10 | 49.05 | 366 | 0.82 | 33 | |
| DE | 91394 | REGENSTAUF | 12.12 | 49.13 | 346 | 0.67 | 31 | |
| DE | 90725 | REHLINGEN | 10.88 | 48.92 | 457 | 0.74 | 18 | |
| DE | 4535 | REICHENHALL,BAD | 12.90 | 47.75 | 455 | 2.43 | 31 | |
| DE | 92331 | REISACH | 11.82 | 47.82 | 634 | 2.66 | 14 | |
| DE | 4540 | REIT I.WINKL | 12.47 | 47.68 | 690 | 6.72 | 33 | |
| DE | 73728 | RHOENHAUS | 9.98 | 50.43 | 736 | 5.46 | 8 | |
| DE | 92294 | ROEHRNBACH | 13.50 | 48.75 | 480 | 2.91 | 30 | |
| DE | 3014 | ROSTOK-WARNEMUENDE (WST) | 12.08 | 54.18 | 4 | 1.07 | 44 | |
| DE | 4093 | ROTHENBURG O.D.TAUBER | 10.18 | 49.38 | 406 | 0.74 | 28 | |
| DE | 78631 | RUETHEN | 8.45 | 51.50 | 330 | 1.04 | 30 | |
| DE | 4511 | RUSEL-IRLMOOS | 13.05 | 48.88 | 797 | 6.19 | 18 | |
| DE | 3988 | SACHSA,BAD | 10.55 | 51.60 | 335 | 1.81 | 27 | |
| DE | 1525 | SALZUFLEN,BAD (WST) | 8.75 | 52.10 | 135 | 0.97 | 33 | |
| DE | 2629 | SANDBERG-KILIANSHOF | 10.02 | 50.37 | 555 | 1.85 | 17 | |
| DE | 54523 | SANKT ANDREASBERG | 10.50 | 51.72 | 680 | 5.85 | 7 | |
| DE | 90662 | SCHEYERN | 11.45 | 48.50 | 481 | 1.14 | 31 | |
| DE | 80151 | SCHLEIDEN-SCHOENESEIFFEN | 6.40 | 50.52 | 572 | 1.55 | 16 | |
| DE | 1438 | SCHLESWIG | 9.55 | 54.53 | 43 | 0.93 | 32 | * |
| DE | 1437 | SCHLESWIG-STADTFELD | 9.58 | 54.52 | 19 | 0.76 | 21 | |
| DE | 92332 | SCHLIRSEE (NST) | 11.87 | 47.73 | 792 | 3.03 | 23 | |
| DE | 74123 | SCHLUECHTERN | 9.52 | 50.33 | 209 | 0.73 | 10 | |
| DE | 2639 | SCHLUECHTERN-KLO.-GOMFR. | 9.55 | 50.38 | 375 | 1.41 | 30 | |
| DE | 78731 | SCHMALLENBERG-FLECKENBG. | 8.27 | 51.13 | 364 | 1.61 | 30 | |

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|---|---|---|---|---|---|---|---|---|
| DE | 2251 | SCHNEIFELFORSTHAUS | 6.42 | 50.30 | 657 | 2.35 | 23 | |
| DE | 71759 | SCHOENBRUNN/BADEN | 8.93 | 49.42 | 350 | 1.26 | 25 | |
| DE | 2634 | SCHOTTEN | 9.13 | 50.50 | 315 | 1.00 | 33 | |
| DE | 70411 | SCHRAMBERG | 8.38 | 48.22 | 502 | 1.78 | 30 | |
| DE | 73922 | SCHROZBERG | 9.98 | 49.35 | 455 | 1.06 | 31 | |
| DE | 71543 | SCHWAEB.HALL-TEURERSHOF | 9.72 | 49.12 | 365 | 0.58 | 31 | |
| DE | 76343 | SCHWALBACH,BAD | 8.07 | 50.13 | 320 | 0.94 | 31 | |
| DE | 4483 | SCHWANDORF | 12.12 | 49.33 | 372 | 0.74 | 11 | |
| DE | 90507 | SCHWANGAU-NEUSCHWANSTEIN | 10.75 | 47.57 | 1008 | 3.14 | 31 | |
| DE | 3038 | SCHWERIN (WST) | 11.38 | 53.65 | 59 | 0.72 | 91 | * |
| DE | 92421 | SIEGSDORF-MARIA ECK | 12.62 | 47.80 | 828 | 4.26 | 25 | |
| DE | 71316 | SIMMERSFELD | 8.52 | 48.62 | 720 | 2.63 | 27 | |
| DE | 1529 | SOLTAU (WST) | 9.83 | 53.00 | 77 | 0.75 | 24 | * |
| DE | 4246 | SONNEBERG-NEUFANG | 11.18 | 50.38 | 626 | 3.25 | 33 | |
| DE | 71067 | SONNENBUEHL-GENKINGEN | 9.18 | 48.40 | 780 | 1.80 | 31 | |
| DE | 2728 | STOETTEN (WST) | 9.87 | 48.67 | 734 | 2.99 | 33 | |
| DE | 2746 | STUTTGART-ECH.(FLUGWEGA) | 9.22 | 48.68 | 373 | 0.90 | 30 | |
| DE | 2716 | STUTTGART-HOHENHEIM | 9.22 | 48.72 | 401 | 0.86 | 26 | |
| DE | 92307 | SUDELFELD | 12.00 | 47.67 | 1195 | 4.90 | 17 | |
| DE | 92308 | SUDELFELD (POLIZEIHEIM) | 12.05 | 47.68 | 1070 | 5.05 | 7 | |
| DE | 75002 | TAUNUSSTEIN-EISERNE HAND | 8.17 | 50.13 | 420 | 1.25 | 27 | |
| DE | 73060 | TETTAU | 11.27 | 50.47 | 578 | 2.11 | 9 | |
| DE | 4035 | TEUSCHNITZ-WICKENDORF | 11.37 | 50.38 | 568 | 2.40 | 19 | |
| DE | 92334 | THALHAM | 11.82 | 47.83 | 628 | 3.88 | 11 | |
| DE | 90751 | THALMAESSING | 11.23 | 49.08 | 417 | 0.55 | 31 | |
| DE | 91202 | TIEFENBACH | 12.58 | 49.43 | 543 | 2.08 | 30 | |
| DE | 71357 | TIEFENBRONN | 8.80 | 48.82 | 344 | 0.97 | 17 | |
| DE | 73411 | TIEFENELLERN | 11.08 | 49.92 | 394 | 1.30 | 27 | |
| DE | 4476 | TIRSCHENREUTH | 12.35 | 49.88 | 515 | 1.24 | 17 | |
| DE | 4169 | TOELZ,BAD | 11.55 | 47.78 | 640 | 2.98 | 25 | |
| DE | 48601 | TOSTEDT | 9.72 | 53.28 | 58 | 0.75 | 26 | * |
| DE | 91376 | TRAITSCHING | 12.65 | 49.15 | 435 | 1.26 | 31 | |
| DE | 2737 | TRIBERG | 8.23 | 48.13 | 683 | 3.83 | 33 | |
| DE | 2276 | TRIER-PETRISBERG | 6.67 | 49.75 | 265 | 0.61 | 22 | |
| DE | 48524 | TRITTAU | 10.42 | 53.62 | 28 | 0.84 | 24 | |
| DE | 90135 | TROCHTELFINGEN-STEINHIL. | 9.28 | 48.32 | 795 | 1.93 | 26 | |
| DE | 2748 | TUEBINGEN (SCHLOSS) | 9.05 | 48.52 | 370 | 0.73 | 21 | |
| DE | 4091 | UFFENHEIM | 10.23 | 49.53 | 340 | 0.70 | 33 | |
| DE | 2730 | ULM (WST) | 9.95 | 48.38 | 567 | 1.14 | 33 | |
| DE | 92708 | UNTERGRIESBACH-SCHAIBING | 13.65 | 48.60 | 495 | 2.40 | 25 | |
| DE | 92104 | UNTERMMERGAU | 11.02 | 47.62 | 840 | 4.16 | 16 | |
| DE | 56128 | VISSELHOEVEDE | 9.58 | 52.98 | 58 | 0.66 | 26 | * |
| DE | 3244 | WAHNSDORF B. DRESDEN | 13.68 | 51.12 | 246 | 0.94 | 58 | |
| DE | 71718 | WALDBRUNN-OBERDIELBACH | 9.05 | 49.45 | 490 | 1.80 | 26 | |
| DE | 51337 | WALDECK-NIEDERWERBE | 9.02 | 51.22 | 240 | 0.63 | 31 | |
| DE | 40142 | WALDERSHOF-HOHENHARD | 12.07 | 49.93 | 690 | 2.82 | 25 | |
| DE | 4515 | WALDHAUSER (NAT.PARK) | 13.47 | 48.93 | 940 | 6.59 | 12 | |
| DE | 92009 | WALLGAU-OBERNACH | 11.30 | 47.55 | 824 | 7.55 | 22 | |
| DE | 92336 | WARNGAU-TAUBENBERG | 11.77 | 47.82 | 795 | 3.12 | 31 | |
| DE | 2615 | WARTENBERG-ANGERSBACH | 9.45 | 50.63 | 270 | 0.59 | 19 | |
| DE | 73762 | WARTMANNSROTH-NEUWIRTHS. | 9.83 | 50.20 | 422 | 1.04 | 31 | |
| DE | 92374 | WASSERBURG/INN-GABERSEE | 12.20 | 48.05 | 485 | 1.07 | 27 | |
| DE | 2625 | WASSERKUPPE (WST) | 9.95 | 50.50 | 921 | 5.42 | 33 | |
| DE | 73154 | WATTENDORF | 11.13 | 50.03 | 522 | 1.74 | 31 | |
| DE | 4481 | WEIDEN/OPF.(WST) | 12.18 | 49.67 | 438 | 1.03 | 33 | |
| DE | 2791 | WEINGARTEN,KR.RAVENSBURG | 9.62 | 47.80 | 440 | 0.89 | 17 | |

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|---|---|---|---|---|---|---|---|---|
| DE | 4083 | WEISSENBURG/BAY.(WST) | 10.97 | 49.02 | 422 | 0.79 | 33 | |
| DE | 53222 | WELLIE | 9.08 | 52.57 | 27 | 0.60 | 21 | |
| DE | 78769 | WENDEN-ROEMERSHAGEN | 7.83 | 50.93 | 415 | 1.86 | 29 | |
| DE | 92158 | WENG BEI FAHRENZHAUSEN | 11.58 | 48.37 | 460 | 0.89 | 31 | |
| DE | 73603 | WERNECK | 10.10 | 49.98 | 225 | 0.57 | 31 | |
| DE | 90303 | WESTERHEIM | 9.62 | 48.52 | 807 | 2.77 | 17 | |
| DE | 73407 | WIESENTTAL-BIRKENREUTH | 11.23 | 49.80 | 490 | 1.50 | 19 | |
| DE | 71742 | WILHELMSFELD | 8.77 | 49.47 | 350 | 1.35 | 26 | |
| DE | 1586 | WILLINGEN/UPLAND | 8.60 | 51.30 | 580 | 3.11 | 33 | |
| DE | 52104 | WILLINGEN/UPLD.-EIMELROD | 8.70 | 51.30 | 500 | 1.34 | 31 | |
| DE | 78723 | WINTERBERG-ALTASTENBERG | 8.47 | 51.20 | 782 | 5.70 | 24 | |
| DE | 78274 | WIPPERFUERTH-KREUZBERG | 7.45 | 51.15 | 365 | 1.69 | 31 | |
| DE | 92022 | WOLFRATSHAUSEN | 11.43 | 47.93 | 570 | 1.74 | 28 | |
| DE | 2674 | WUERZBURG (WST) | 9.97 | 49.77 | 268 | 0.58 | 32 | |
| DE | 73774 | ZIEGLERFELD | 9.52 | 50.20 | 328 | 0.92 | 15 | |
| DE | 91315 | ZWIESEL-RABENSTEIN | 13.20 | 49.03 | 690 | 4.73 | 29 | |
| DE | 4493 | ZWIESELBERG | 13.22 | 49.00 | 615 | 3.27 | 19 | |
| FI | 1141101 | ANJALANKOSKI, MÄMMÄLÄ | 26.86 | 60.67 | 40 | 2.30 | 33 | |
| FI | 21070 | ANSOPURO, SOTKAMO | 28.36 | 64.29 | 218 | 2.62 | 33 | |
| FI | 1049101 | ENO, LUHTAPOHJA | 30.43 | 62.79 | 126 | 2.68 | 33 | |
| FI | 1656301 | ENONTEKIÖ, HETTA | 23.68 | 68.39 | 300 | 2.90 | 33 | |
| FI | 1340101 | Eurajoki,Olkiluoto | 21.48 | 61.24 | 5 | 2.14 | 33 | |
| FI | 20810 | HAAPAJYRÄ, YLISTARO | 22.48 | 62.93 | 22 | 1.55 | 33 | |
| FI | 1820001 | HANKO, SANTALA | 23.08 | 59.88 | 2 | 2.20 | 33 | |
| FI | 1357701 | HAUHO, LÄNSI-HAHKIALA | 24.59 | 61.10 | 102 | 2.18 | 33 | |
| FI | 1149301 | HAUKIVUORI | 27.27 | 61.96 | 128 | 2.22 | 33 | |
| FI | 20720 | HEINÄJOKI, KORPILAHTI | 25.40 | 62.17 | 131 | 2.46 | 33 | |
| FI | 1042701 | HEINÄVESI, HASUMÄKI | 28.78 | 62.38 | 98 | 2.50 | 33 | |
| FI | 20440 | HUHTISUONOJA, RUOKOLAHTI | 29.65 | 61.38 | 85 | 2.55 | 33 | |
| FI | 21010 | HUOPAKINOJA, PATTIJOKI | 24.61 | 64.67 | 16 | 1.95 | 33 | |
| FI | 1594501 | HYRYNSALMI, PALJAKKA | 28.08 | 64.73 | 380 | 3.45 | 33 | |
| FI | 1141201 | IITTI, KAURAMAA | 26.28 | 60.92 | 86 | 2.40 | 33 | |
| FI | 21171 | IITTOVUOMA 1 | 21.46 | 68.74 | 484 | 2.90 | 33 | |
| FI | 21172 | IITTOVUOMA 2 | 21.45 | 68.73 | 510 | 2.95 | 33 | |
| FI | 21173 | IITTOVUOMA 3 | 21.48 | 68.75 | 539 | 3.00 | 33 | |
| FI | 21174 | IITTOVUOMA 4 | 21.48 | 68.73 | 651 | 3.00 | 33 | |
| FI | 1658101 | IL.,SODANKYLÄN OBSERVATORIO | 26.63 | 67.34 | 180 | 2.60 | 33 | |
| FI | 1049201 | ILOMANTSI | 30.93 | 62.66 | 160 | 2.83 | 33 | |
| FI | 1049501 | ILOMANTSI, NAARVA | 31.06 | 63.06 | 178 | 2.82 | 33 | |
| FI | 1680401 | INARI, ANGELI | 25.67 | 68.91 | 200 | 2.55 | 33 | |
| FI | 1715101 | INARI, IVALON MATTI | 25.88 | 68.37 | 266 | 3.25 | 33 | |
| FI | 1711101 | INARI, NELLIM | 28.31 | 68.84 | 124 | 2.38 | 33 | |
| FI | 1714301 | INARI, REPOJOKI | 25.93 | 68.43 | 266 | 3.20 | 33 | |
| FI | 1690601 | INARI, SEVETTIJÄRVI | 28.60 | 69.51 | 101 | 2.43 | 33 | |
| FI | 1712101 | INARI, TOIVONNIEMI | 27.07 | 69.03 | 140 | 2.42 | 33 | |
| FI | 1718101 | INARI,LEMMENJOKI | 26.23 | 68.75 | 160 | 2.55 | 33 | |
| FI | 1420401 | JALASJÄRVI | 22.74 | 62.48 | 120 | 2.20 | 33 | |
| FI | 1359201 | JOKIOINEN | 23.49 | 60.81 | 100 | 2.28 | 33 | |
| FI | 20450 | JUONISTONOJA, HAUKIVUORI | 27.23 | 61.95 | 120 | 2.20 | 33 | |
| FI | 1400001 | JURVA, KIVINEVA | 21.89 | 62.78 | 80 | 1.77 | 33 | |
| FI | 20830 | KAIDELUOMA, ALAVUS | 23.64 | 62.53 | 101 | 2.36 | 33 | |
| FI | 20820 | KAINASTONLUOMA, YLISTARO | 22.52 | 62.93 | 37 | 1.55 | 33 | |
| FI | 1320001 | KALANTI | 21.60 | 60.80 | 20 | 2.56 | 33 | |
| FI | 1370201 | KARIJOKI | 21.93 | 62.26 | 121 | 2.39 | 33 | |
| FI | 1230401 | KARKKILA,HAAPALA,HAUKKAMÄKI | 24.19 | 60.52 | 89 | 2.70 | 33 | |
| FI | 1500001 | KARLEBY | 23.23 | 63.88 | 19 | 1.58 | 33 | |

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|---|---|---|---|---|---|---|---|---|
| FI | 20330 | KATAJALUOMA, IKAALINEN | 22.78 | 61.69 | 109 | 2.08 | 33 | |
| FI | 21060 | KAUKOLANPURO, PYHÄNTÄ | 26.77 | 64.08 | 177 | 2.45 | 33 | |
| FI | 1653101 | KEMIJÄRVI, HALOSENRANTA | 27.49 | 66.65 | 171 | 2.57 | 33 | |
| FI | 1653102 | KEMIJÄRVI,JUMISKON VL,KONEAS. | 27.78 | 66.51 | 183 | 2.70 | 33 | |
| FI | 20510 | KESSELINPURO, OUTOKUMPU | 29.03 | 62.67 | 100 | 2.68 | 33 | |
| FI | 1356601 | KEURUU, SUOLAHTI | 24.62 | 62.29 | 120 | 2.48 | 33 | |
| FI | 1351501 | KIIKOINEN | 22.57 | 61.46 | 70 | 1.95 | 33 | |
| FI | 21180 | KIRNUOJA, SIMO | 24.78 | 65.68 | 9 | 2.57 | 33 | |
| FI | 1655701 | KITTILÄ, HORMAKUMPU | 25.20 | 67.67 | 200 | 2.85 | 33 | |
| FI | 1658401 | KITTILÄ, POKKA | 25.77 | 68.16 | 268 | 3.30 | 33 | |
| FI | 1656801 | KITTILÄ, PULJU | 24.83 | 68.23 | 282 | 3.03 | 33 | |
| FI | 1045701 | KIURUVESI, LAPINSALO | 26.63 | 63.63 | 179 | 2.45 | 33 | |
| FI | 20620 | KOHISEVANPURO, KARTTULA | 27.28 | 62.85 | 117 | 2.45 | 33 | |
| FI | 1673701 | KOLARI, KATTILAMAA | 24.02 | 67.38 | 174 | 2.70 | 33 | |
| FI | 1144101 | KONGINKANGAS, KIVETTY | 25.69 | 62.81 | 180 | 2.65 | 33 | |
| FI | 1144201 | KONNEVESI, SÄRKISALO | 26.17 | 62.75 | 121 | 2.48 | 33 | |
| FI | 1147102 | KONNEVESI,TUTKIMUSASEMA | 26.34 | 62.62 | 100 | 2.32 | 33 | |
| FI | 20170 | KOPPELONOJA, KOSKI HL. | 25.14 | 61.01 | 120 | 2.40 | 33 | |
| FI | 21130 | KORINTTEENOJA,ROVANIEMEN MLK. | 26.88 | 66.33 | 109 | 2.77 | 33 | |
| FI | 20611 | KORPIJOKI | 26.37 | 63.73 | 112 | 2.35 | 33 | |
| FI | 1358301 | KOSKI HL, ETOLA | 25.23 | 61.04 | 120 | 2.45 | 33 | |
| FI | 21200 | KOTIOJA, RANUA | 26.15 | 66.14 | 168 | 3.00 | 33 | |
| FI | 1357201 | KUHMALAHTI,VÄHÄ-PENTO | 24.54 | 61.51 | 101 | 2.08 | 33 | |
| FI | 1044401 | KUHMO, JONKERI | 29.73 | 63.95 | 204 | 2.70 | 33 | |
| FI | 1599101 | KUHMO, PALONIEMI | 29.22 | 64.10 | 160 | 2.40 | 33 | |
| FI | 1599501 | KUHMO, VARAJOKI | 29.68 | 64.20 | 180 | 2.50 | 33 | |
| FI | 1599502 | Kuhmo,Lentua, Romuvaara | 29.93 | 64.23 | 340 | 2.60 | 33 | |
| FI | 1142601 | KUHMOINEN, PUUKKOINEN | 25.17 | 61.66 | 121 | 2.20 | 33 | |
| FI | 20940 | KUIKKISENOJA, KÄLVIÄ | 23.40 | 63.91 | 12 | 1.55 | 33 | |
| FI | 1740101 | KUUSAMO, KOSKENKYLÄ | 29.80 | 65.89 | 260 | 2.70 | 33 | |
| FI | 1595301 | KUUSAMO, KURVINEN | 29.57 | 65.58 | 240 | 3.00 | 33 | |
| FI | 21110 | KUUSIVAARANPURO, SALLA | 28.13 | 66.75 | 180 | 2.67 | 33 | |
| FI | 1146401 | KYYJÄRVI, MÖKSY | 24.31 | 63.03 | 200 | 2.22 | 33 | |
| FI | 21210 | LAANIOJA, INARI | 27.45 | 68.38 | 345 | 2.80 | 33 | |
| FI | 1357801 | LAMMI,EVO | 25.19 | 61.18 | 162 | 2.39 | 33 | |
| FI | 1470301 | LAPPAJÄRVI, KK | 23.63 | 63.18 | 80 | 1.76 | 33 | |
| FI | 1060201 | LAPPEENRANTA | 28.19 | 60.83 | 60 | 2.68 | 33 | |
| FI | 1330001 | LAPPI TL, KAUKOLA | 21.91 | 61.07 | 40 | 2.40 | 33 | |
| FI | 20430 | LATOSUONOJA, RUOKOLAHTI | 28.69 | 61.36 | 90 | 2.58 | 33 | |
| FI | 20040 | LAUHAVUORI, ISOJOKI | 22.17 | 62.15 | 218 | 2.85 | 33 | |
| FI | 1440701 | LEHTIMÄKI, LÄNSIKYLÄ | 23.76 | 62.81 | 140 | 2.35 | 33 | |
| FI | 1046302 | LEHTOMÄKI, NILSIÄ | 27.98 | 63.23 | 175 | 2.55 | 33 | |
| FI | 1042702 | LEPPÄVIRTA, PAUKARLAHTI | 27.55 | 62.68 | 117 | 2.50 | 33 | |
| FI | 1044901 | LIEKSA, RUUNAA | 30.42 | 63.43 | 142 | 2.75 | 33 | |
| FI | 20612 | LIITTOPERÄ | 26.22 | 63.73 | 142 | 2.38 | 33 | |
| FI | 1043502 | LIPERI, AHONKYLÄ | 26.18 | 62.65 | 91 | 2.62 | 33 | |
| FI | 21120 | LISMANOJA, SODANKYLÄ | 26.56 | 67.24 | 211 | 2.62 | 33 | |
| FI | 21140 | LOMAKYLÄ | 27.74 | 66.45 | 159 | 2.60 | 33 | |
| FI | 20210 | LÖYTÄNEENOJA, KOKEMÄKI | 22.24 | 61.27 | 41 | 2.04 | 33 | |
| FI | 20180 | LÖYTTYNOJA, LAMMI | 25.01 | 61.04 | 146 | 2.40 | 33 | |
| FI | 1360101 | MERIKARVIA, LANKOSKI | 21.68 | 61.81 | 28 | 2.15 | 33 | |
| FI | 1351502 | MOUHIJÄRVI,TERVAMÄKI | 22.90 | 61.51 | 79 | 1.95 | 33 | |
| FI | 1591201 | MUHOS,LEPPINIEMI | 26.03 | 64.85 | 38 | 1.98 | 33 | |
| FI | 1145401 | MULTIA, SAHRAJÄRVI | 25.02 | 62.43 | 181 | 2.80 | 33 | |
| FI | 21040 | MURRONOJA, PYHÄNTÄ | 26.78 | 64.10 | 165 | 2.45 | 33 | |
| FI | 20540 | MURTOPURO, VALTIMO | 28.48 | 63.79 | 214 | 2.80 | 33 | |

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|---|---|---|---|---|---|---|---|---|
| FI | 1043901 | MUSTALAHTI,KESÄLAHTI | 29.71 | 62.07 | 94 | 2.28 | 33 | |
| FI | 20530 | MUSTAPURO, OUTOKUMPU | 29.18 | 62.78 | 88 | 2.68 | 33 | |
| FI | 21160 | MYLLYOJA, SAVUKOSKI | 28.13 | 67.31 | 180 | 2.55 | 33 | |
| FI | 21030 | MYLLYPURO, HYRYNSALMI | 28.62 | 64.66 | 175 | 2.80 | 33 | |
| FI | 1690603 | NÄÄTÄMÖ | 29.13 | 69.66 | 85 | 2.50 | 33 | |
| FI | 20410 | NIITTYJOKI, VALKEALA | 26.75 | 60.83 | 55 | 2.28 | 33 | |
| FI | 20840 | NORRSKOGSDIKET, NÄRPES | 21.48 | 62.61 | 20 | 1.83 | 33 | |
| FI | 1044101 | NURMES, LIPINLAHTI | 29.31 | 63.54 | 116 | 2.58 | 33 | |
| FI | 1440901 | NURMO, MARTIKKALANJÄRVI | 22.88 | 62.86 | 104 | 2.02 | 33 | |
| FI | 1180501 | ORIMATTILA, KEITURI | 25.45 | 60.83 | 90 | 2.50 | 33 | |
| FI | 1160001 | ORIMATTILA, PAKAA | 25.78 | 60.72 | 60 | 2.45 | 33 | |
| FI | 1359101 | ORIPÄÄ,TEINIKIVI | 22.71 | 60.89 | 80 | 2.25 | 33 | |
| FI | 20930 | PAHKAOJA,LESTIJÄRVI | 24.44 | 63.44 | 159 | 2.20 | 33 | |
| FI | 1490901 | PERHO, PELTOKANGAS | 24.13 | 63.24 | 140 | 1.95 | 33 | |
| FI | 1595401 | PESIÖ, JOUTENVAARA | 28.54 | 64.93 | 269 | 3.00 | 33 | |
| FI | 1595402 | PESIÖ, JOUTENVAARA, I-L | 28.53 | 64.93 | 260 | 3.00 | 33 | |
| FI | 1147901 | PIEKSÄMÄKI | 27.23 | 62.30 | 136 | 2.45 | 33 | |
| FI | 1147301 | PIELAVESI, SÄVIÄ | 26.66 | 63.19 | 120 | 2.30 | 33 | |
| FI | 1144701 | PIHTIPUDAS, Luomala | 25.67 | 63.34 | 124 | 2.40 | 33 | |
| FI | 1048401 | POLVIJÄRVI, MARTONVAARA | 29.41 | 63.08 | 162 | 2.85 | 33 | |
| FI | 1280001 | PÖYTYÄ, RIIHIKOSKI | 22.60 | 60.72 | 63 | 2.52 | 33 | |
| FI | 1612101 | PUDASJÄRVI, JONKU | 27.17 | 65.32 | 120 | 2.55 | 33 | |
| FI | 1617101 | PUDASJÄRVI, KORPINEN | 27.63 | 65.20 | 140 | 2.70 | 33 | |
| FI | 1615201 | PUDASJÄRVI, SARAKYLÄ | 27.33 | 65.78 | 160 | 2.90 | 33 | |
| FI | 1570601 | PULKKILA,JYLHÄNRANTA | 25.85 | 64.33 | 79 | 2.10 | 33 | |
| FI | 1600501 | PUOLANKA | 27.81 | 64.80 | 202 | 3.00 | 33 | |
| FI | 1041201 | PUUMALA, HEISKA | 28.00 | 61.58 | 85 | 2.35 | 33 | |
| FI | 1540501 | PYHÄJÄRVI OL | 25.48 | 63.60 | 100 | 2.35 | 33 | |
| FI | 1657801 | RAUDANJOKI | 26.40 | 67.01 | 180 | 2.80 | 33 | |
| FI | 1147101 | RAUTALAMPI | 26.69 | 62.62 | 100 | 2.37 | 33 | |
| FI | 1046801 | RAUTAVAARA, ALALUOSTA | 28.47 | 63.27 | 120 | 2.60 | 33 | |
| FI | 1046802 | RAUTAVAARA, YLÄLUOSTA | 28.66 | 63.38 | 161 | 2.70 | 33 | |
| FI | 20420 | RAVIJOKI, VIROLAHTI | 27.56 | 60.53 | 20 | 2.37 | 33 | |
| FI | 1652401 | ROVANIEMI MLK, PEKKALA | 26.83 | 66.38 | 159 | 2.76 | 33 | |
| FI | 1657101 | ROVANIEMI, OLKKAJÄRVI | 25.97 | 66.57 | 120 | 2.68 | 33 | |
| FI | 20710 | RUUNAPURO, LAUKAA | 26.03 | 62.51 | 101 | 2.34 | 33 | |
| FI | 1146801 | SAARIJÄRVI, PYHÄJÄRVI | 25.48 | 62.80 | 155 | 2.65 | 33 | |
| FI | 1654801 | SALLA, KELLOSELKÄ | 28.99 | 66.94 | 200 | 2.70 | 33 | |
| FI | 1654701 | SALLA, NARUSKA | 29.23 | 67.21 | 280 | 2.96 | 33 | |
| FI | 20220 | SAVIJOKI, TARVASJOKI | 22.64 | 60.59 | 60 | 2.63 | 33 | |
| FI | 1041401 | SAVITAIPALE | 27.53 | 61.18 | 100 | 2.40 | 33 | |
| FI | 1042901 | SAVONLINNA, HAAPALA | 28.93 | 61.92 | 108 | 2.28 | 33 | |
| FI | 1654301 | SAVUKOSKI, AINIJÄRVI | 29.46 | 67.76 | 240 | 2.90 | 33 | |
| FI | 1046501 | SIILINJÄRVI, KK | 27.68 | 63.09 | 101 | 2.38 | 33 | |
| FI | 20320 | SIUKOLANPURO, ORIVESI | 24.35 | 61.66 | 109 | 2.16 | 33 | |
| FI | 1655901 | SODANKYLÄ, UNARI | 25.74 | 67.23 | 200 | 2.50 | 33 | |
| FI | 1659301 | SODANKYLÄ, VUOTSO | 27.12 | 68.10 | 259 | 2.98 | 33 | |
| FI | 1046401 | SONKAJÄRVI, UURA | 27.84 | 63.76 | 171 | 2.70 | 33 | |
| FI | 1046402 | SOTKAMO, LAAKA | 28.28 | 63.83 | 311 | 3.10 | 33 | |
| FI | 20850 | SULVANJOKI, KORSHOLM | 21.68 | 62.99 | 10 | 1.59 | 33 | |
| FI | 1240301 | SUOMUSJÄRVI, TAIPALE | 23.70 | 60.32 | 61 | 2.58 | 33 | |
| FI | 1595403 | SUOMUSSALMI, JOKINIEMI | 28.65 | 64.96 | 219 | 2.80 | 33 | |
| FI | 1594301 | SUOMUSSALMI, PESIÖ | 28.56 | 64.93 | 241 | 2.90 | 33 | |
| FI | 1595101 | SUOMUSSALMI, RUHTINANSALMI | 29.50 | 65.22 | 200 | 2.70 | 33 | |
| FI | 20560 | SUOPURO, SOTKAMO | 28.48 | 63.88 | 200 | 2.83 | 33 | |
| FI | 20460 | SYVÄOJA, SAVONLINNA | 28.78 | 62.08 | 99 | 2.34 | 33 | |

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|---|---|---|---|---|---|---|---|---|
| FI | 1616201 | TAIVALKOSKI,INGET | 28.56 | 65.73 | 258 | 3.20 | 33 | |
| FI | 1580201 | TEMMES | 25.62 | 64.65 | 40 | 2.03 | 33 | |
| FI | 1020101 | TOHMAJÄRVI,KEMIE | 30.35 | 62.23 | 102 | 2.52 | 33 | |
| FI | 20920 | TUJUOJA, HAAPAJÄRVI | 25.35 | 63.74 | 97 | 1.95 | 33 | |
| FI | 1280002 | TURKU | 22.24 | 60.48 | 21 | 2.64 | 33 | |
| FI | 20910 | TUURAOJA, KALAJOKI | 24.02 | 64.23 | 20 | 1.80 | 33 | |
| FI | 1210801 | TUUSULA, RUSKELA | 25.00 | 60.45 | 60 | 2.65 | 33 | |
| FI | 1352801 | URJALA, VALAJÄRVI | 23.32 | 61.07 | 120 | 2.00 | 33 | |
| FI | 1680701 | UTSJOKI | 26.94 | 69.93 | 115 | 2.40 | 33 | |
| FI | 1592101 | VAALA, NISKA | 26.79 | 64.59 | 121 | 2.30 | 33 | |
| FI | 21020 | VÄÄRÄJOKI,KUUSAMO | 29.18 | 65.91 | 261 | 2.93 | 33 | |
| FI | 1595404 | VAATOJÄRVI | 28.68 | 64.93 | 220 | 2.80 | 33 | |
| FI | 1149101 | VALKEALA, VOIKOSKI | 26.78 | 61.25 | 98 | 2.30 | 33 | |
| FI | 1046301 | VARPAISJÄRVI, KÄRSÄMÄKI | 27.99 | 63.37 | 120 | 2.64 | 33 | |
| FI | 1720321 | VÄRRIÖ | 29.59 | 67.73 | 462 | 2.88 | 33 | |
| FI | 1230901 | VIHTI, SUONTAA | 24.39 | 60.42 | 47 | 2.70 | 33 | |
| FI | 1593901 | VUOLIJOKI, SAARESMÄKI | 26.93 | 64.05 | 212 | 2.50 | 33 | |
| FI | 1340401 | YLÄNE | 22.42 | 60.88 | 60 | 2.42 | 33 | |
| FI | 21190 | YLIJOKI, RANUA | 26.18 | 66.14 | 167 | 3.05 | 33 | |
| FI | 1679101 | YLITORNIO, HAAPAKOSKI | 23.78 | 66.38 | 60 | 2.80 | 33 | |
| FI | 1679801 | YLITORNIO, MELTOSJÄRVI | 24.65 | 66.53 | 100 | 2.80 | 33 | |
| FR | 800011 | ABBEVILLE | 1.83 | 50.13 | 77 | 0.28 | 48 | |
| FR | 470911 | AGEN | 0.60 | 44.18 | 60 | 0.21 | 40 | |
| FR | 200042 | AJACCIO | 8.80 | 41.92 | 9 | 0.35 | 43 | |
| FR | 610011 | ALENCON | 0.10 | 48.45 | 11 | 0.41 | 48 | |
| FR | 10041 | AMBERIEU | 5.33 | 45.98 | 254 | 0.53 | 43 | |
| FR | 490071 | ANGERS | -0.57 | 47.50 | 58 | 0.21 | 43 | |
| FR | 60042 | ANTIBES | 7.13 | 43.57 | 82 | 0.54 | 44 | |
| FR | 893461 | AUXERRE | 3.55 | 47.80 | 212 | 0.41 | 44 | |
| FR | 180921 | AVORD | 2.65 | 47.05 | 179 | 0.29 | 42 | |
| FR | 682971 | BALE | 7.52 | 47.60 | 271 | 0.57 | 44 | |
| FR | 201481 | BASTIA | 9.48 | 42.55 | 12 | 0.40 | 44 | |
| FR | 606391 | BEAUVAIS | 2.12 | 49.45 | 111 | 0.31 | 44 | |
| FR | 900101 | BELFORT | 6.87 | 47.63 | 423 | 1.12 | 43 | |
| FR | 560091 | BELLE-ILE LE TALUT | -3.22 | 47.30 | 43 | 0.16 | 41 | |
| FR | 250561 | BESANCON | 5.98 | 47.25 | 309 | 0.68 | 44 | |
| FR | 640241 | BIARRITZ | -1.53 | 43.47 | 71 | 0.21 | 38 | |
| FR | 400461 | BISCAROSSE | -1.25 | 44.43 | 39 | 0.29 | 36 | * |
| FR | 332811 | BORDEAUX | -0.70 | 44.83 | 61 | 0.21 | 44 | * |
| FR | 621601 | BOULOGNE SUR MER | 1.60 | 50.73 | 74 | 0.44 | 44 | |
| FR | 730541 | BOURG SAINT MAURICE | 6.77 | 45.62 | 868 | 2.56 | 44 | |
| FR | 180331 | BOURGES | 2.37 | 47.07 | 166 | 0.32 | 42 | |
| FR | 290751 | BREST | -4.42 | 48.45 | 103 | 0.44 | 48 | |
| FR | 911031 | BRETIGNY | 2.33 | 48.60 | 85 | 0.24 | 44 | |
| FR | 141371 | CAEN | -0.45 | 49.18 | 67 | 0.44 | 44 | |
| FR | 200501 | CALVI | 8.80 | 42.53 | 58 | 0.53 | 32 | |
| FR | 622981 | CAMBRAI | 3.15 | 50.22 | 77 | 0.38 | 39 | |
| FR | 60291 | CANNES | 6.95 | 43.55 | 9 | 0.47 | 43 | |
| FR | 661481 | CAP BEAR | 3.13 | 42.52 | 86 | 0.91 | 40 | |
| FR | 201071 | CAP CORSE | 9.37 | 43.00 | 111 | 0.21 | 41 | * |
| FR | 500201 | CAP DE LA HAGUE | -1.93 | 49.72 | 9 | 0.40 | 43 | |
| FR | 765521 | CAP DE LA HEVE | 0.07 | 49.52 | 103 | 0.41 | 43 | |
| FR | 61211 | CAP FERRAT | 7.33 | 43.68 | 143 | 0.07 | 42 | * |
| FR | 332362 | CAP FERRET | -1.25 | 44.63 | 10 | 0.31 | 40 | * |
| FR | 200411 | CAP PERTUSATO | 9.18 | 41.37 | 110 | 0.43 | 36 | |
| FR | 130554 | CAP POMEGUES | 5.30 | 43.27 | 73 | 0.04 | 42 | * |

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|---|---|---|---|---|---|---|---|---|
| FR | 110691 | CARCASSONNE | 2.32 | 43.22 | 130 | 0.81 | 44 | |
| FR | 840311 | CARPENTRAS | 5.05 | 44.08 | 105 | 0.18 | 29 | |
| FR | 335291 | CAZAUX | -1.13 | 44.53 | 33 | 0.19 | 43 | * |
| FR | 280701 | CHARTRES | 1.52 | 48.47 | 156 | 0.34 | 48 | |
| FR | 580621 | CHATEAU-CHINON | 3.93 | 47.07 | 605 | 0.82 | 38 | |
| FR | 281981 | CHATEAUDUN | 1.38 | 48.05 | 127 | 0.35 | 41 | |
| FR | 360631 | CHATEAUROUX | 1.72 | 46.85 | 157 | 0.32 | 41 | |
| FR | 211541 | CHATILLON | 4.58 | 47.85 | 264 | 0.47 | 39 | |
| FR | 502091 | CHERBOURG | -1.47 | 49.65 | 138 | 0.62 | 24 | |
| FR | 631131 | CLERMONT-FERRAND | 3.17 | 45.78 | 332 | 0.49 | 44 | |
| FR | 160891 | COGNAC | -0.32 | 45.67 | 31 | 0.21 | 44 | |
| FR | 682051 | COLMAR | 7.40 | 47.92 | 217 | 0.60 | 34 | |
| FR | 950781 | CORMEILLES | 2.03 | 49.08 | 100 | 0.28 | 41 | |
| FR | 400881 | DAX | -1.07 | 43.68 | 32 | 0.21 | 34 | |
| FR | 145781 | DEAUVILLE | 0.17 | 49.37 | 147 | 0.40 | 39 | |
| FR | 764661 | DIEPPE | 1.10 | 49.93 | 34 | 0.35 | 44 | |
| FR | 214731 | DIJON | 5.08 | 47.27 | 227 | 0.53 | 44 | |
| FR | 352281 | DINARD | -2.07 | 48.58 | 59 | 0.29 | 43 | |
| FR | 591831 | DUNKERQUE | 2.33 | 51.05 | 23 | 0.21 | 23 | * |
| FR | 50461 | EMBRUN | 6.50 | 44.57 | 876 | 1.04 | 44 | |
| FR | 273471 | EVREUX | 1.22 | 49.02 | 143 | 0.32 | 25 | |
| FR | 461271 | GOURDON | 1.40 | 44.75 | 264 | 0.28 | 44 | |
| FR | 383841 | GRENOBLE ST GEOIRS | 5.33 | 45.37 | 386 | 0.66 | 25 | * |
| FR | 830691 | HYERES | 6.15 | 43.10 | 4 | 0.12 | 27 | * |
| FR | 291551 | ILE D OUESSANT | -5.12 | 48.47 | 32 | 0.13 | 41 | * |
| FR | 851131 | ILE D YEU | -2.33 | 46.70 | 47 | 0.22 | 41 | |
| FR | 290821 | ILE DE BATZ | -4.02 | 48.75 | 37 | 0.37 | 44 | |
| FR | 220161 | ILE DE BREHAT | -3.00 | 48.85 | 36 | 0.35 | 42 | |
| FR | 560691 | ILE DE GROIX | -3.50 | 47.65 | 54 | 0.07 | 44 | * |
| FR | 830692 | ILE PORQUEROLLES | 6.23 | 43.00 | 147 | 0.26 | 40 | |
| FR | 130471 | ISTRES | 4.93 | 43.52 | 24 | 0.37 | 24 | |
| FR | 173001 | LA ROCHELLE | -1.15 | 46.15 | 10 | 0.24 | 36 | |
| FR | 292641 | LANDIVISIAU | -4.15 | 48.52 | 115 | 0.71 | 26 | |
| FR | 522691 | LANGRES | 5.32 | 47.83 | 462 | 0.75 | 44 | |
| FR | 952771 | LE BOURGET | 2.45 | 48.97 | 65 | 0.25 | 47 | * |
| FR | 830311 | LE LUC | 6.38 | 43.38 | 78 | 0.85 | 44 | |
| FR | 721811 | LE MANS | 0.20 | 47.93 | 52 | 0.31 | 44 | |
| FR | 628261 | LE TOUQUET | 1.62 | 50.52 | 14 | 0.50 | 38 | |
| FR | 593431 | LILLE | 3.10 | 50.57 | 52 | 0.44 | 43 | |
| FR | 870856 | LIMOGES | 1.18 | 45.87 | 402 | 0.43 | 44 | |
| FR | 561851 | LORIENT | -3.45 | 47.77 | 44 | 0.25 | 41 | |
| FR | 261681 | LUS LA CROIX HAUTE | 5.70 | 44.68 | 1061 | 1.76 | 32 | |
| FR | 704731 | LUXEUIL | 6.35 | 47.78 | 273 | 0.62 | 44 | |
| FR | 690291 | LYON BRON | 4.95 | 45.72 | 201 | 0.47 | 43 | |
| FR | 711051 | MACON | 4.80 | 46.30 | 217 | 0.47 | 44 | |
| FR | 130541 | MARIGNANE | 5.22 | 43.45 | 36 | 0.32 | 44 | |
| FR | 773061 | MELUN | 2.68 | 48.62 | 92 | 0.24 | 44 | |
| FR | 570391 | METZ | 6.13 | 49.08 | 191 | 0.43 | 44 | |
| FR | 121451 | MILLAU | 3.02 | 44.12 | 720 | 0.75 | 44 | |
| FR | 303391 | MONT AIGOUAL | 3.58 | 44.12 | 1565 | 3.90 | 44 | |
| FR | 401921 | MONT DE MARSAN | -0.50 | 43.92 | 60 | 0.24 | 44 | |
| FR | 713201 | MONT SAINT VINCENT | 4.43 | 46.65 | 603 | 0.65 | 39 | |
| FR | 261981 | MONTELIMAR | 4.73 | 44.58 | 74 | 0.78 | 44 | |
| FR | 341541 | MONTPELLIER | 3.97 | 43.58 | 5 | 0.57 | 44 | |
| FR | 545261 | NANCY ESSEY | 6.22 | 48.68 | 217 | 0.50 | 42 | |
| FR | 440201 | NANTES | -1.60 | 47.17 | 27 | 0.22 | 43 | |

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|---|---|---|---|---|---|---|---|---|
| FR | 581601 | NEVERS | 3.10 | 47.00 | 181 | 0.28 | 44 | |
| FR | 60881 | NICE | 7.20 | 43.65 | 10 | 0.15 | 42 | * |
| FR | 301891 | NIMES COURBESSAC | 4.40 | 43.87 | 62 | 0.31 | 43 | |
| FR | 302581 | NIMES GARONS | 4.42 | 43.75 | 96 | 0.37 | 29 | |
| FR | 840871 | ORANGE | 4.83 | 44.13 | 55 | 0.32 | 40 | |
| FR | 450551 | ORLEANS | 1.75 | 47.98 | 125 | 0.32 | 44 | |
| FR | 940771 | ORLY | 2.40 | 48.73 | 96 | 0.28 | 43 | |
| FR | 751141 | PARIS MONTSOURIS | 2.33 | 48.82 | 77 | 0.29 | 41 | |
| FR | 645491 | PAU | -0.42 | 43.38 | 185 | 0.26 | 44 | * |
| FR | 661361 | PERPIGNAN | 2.87 | 42.73 | 48 | 0.56 | 42 | * |
| FR | 350491 | POINT DU GROUIN | -1.85 | 48.72 | 41 | 0.26 | 44 | |
| FR | 173201 | POINTE DE CHASSIRON | -1.42 | 46.05 | 22 | 0.16 | 44 | |
| FR | 172251 | POINTE DE LA COURBE | -1.23 | 45.70 | 7 | 0.15 | 42 | |
| FR | 860271 | POITIERS | 0.32 | 46.58 | 120 | 0.28 | 44 | |
| FR | 292161 | QUIMPER | -4.17 | 47.97 | 94 | 0.19 | 25 | * |
| FR | 511831 | REIMS | 4.03 | 49.30 | 99 | 0.32 | 44 | |
| FR | 352811 | RENNES | -1.72 | 48.07 | 78 | 0.25 | 44 | |
| FR | 761161 | ROUEN | 1.18 | 49.38 | 157 | 0.44 | 25 | |
| FR | 40491 | SAINT AUBAN | 6.00 | 44.07 | 461 | 0.46 | 39 | |
| FR | 524481 | SAINT DIZIER | 4.90 | 48.63 | 140 | 0.46 | 36 | |
| FR | 420051 | SAINT ETIENNE | 4.30 | 45.53 | 402 | 0.68 | 44 | |
| FR | 92891 | SAINT GIRONS | 1.10 | 43.00 | 412 | 0.53 | 38 | |
| FR | 441031 | SAINT NAZAIRE | -2.17 | 47.32 | 4 | 0.10 | 35 | * |
| FR | 714911 | SAINT YAN | 4.02 | 46.42 | 244 | 0.38 | 39 | |
| FR | 23201 | SAIT QUENTIN | 3.20 | 49.82 | 101 | 0.31 | 43 | |
| FR | 131031 | SALON DE PROVENCE | 5.10 | 43.60 | 60 | 0.24 | 44 | |
| FR | 343012 | SETE | 3.68 | 43.68 | 81 | 0.38 | 43 | |
| FR | 671241 | STRASBOURG | 7.63 | 48.55 | 154 | 0.59 | 44 | |
| FR | 653441 | TARBES | 0.00 | 43.18 | 363 | 0.41 | 42 | |
| FR | 831371 | TOULON | 5.93 | 43.10 | 27 | 0.12 | 44 | |
| FR | 310691 | TOULOUSE BLAGNAC | 1.37 | 43.63 | 153 | 0.29 | 44 | |
| FR | 311151 | TOULOUSE FRANCAZAL | 1.37 | 43.37 | 166 | 0.26 | 43 | |
| FR | 372612 | TOURS | 0.72 | 47.45 | 112 | 0.40 | 33 | |
| FR | 786211 | TRAPPES | 2.02 | 48.77 | 168 | 0.37 | 48 | * |
| FR | 30601 | VICHY | 3.40 | 46.17 | 251 | 0.44 | 40 | |
| FR | 786401 | VILLACOUBLAY | 2.20 | 48.77 | 179 | 0.32 | 44 | |
| GR | 316 | AGIOS GEORGIOS | 25.48 | 35.17 | 820 | 1.30 | 25 | |
| GR | 219 | AGIOS GERMANOS | 21.17 | 40.83 | 1050 | 1.31 | 17 | |
| GR | 312 | AGIOS THOMAS | 25.03 | 35.15 | 530 | 0.67 | 21 | |
| GR | 245 | AGRA | 22.02 | 40.80 | 340 | 0.26 | 9 | |
| GR | 281 | AIDONOHORI | 23.73 | 40.85 | 184 | 0.73 | 21 | |
| GR | 32 | AKOVOS | 22.17 | 37.18 | 800 | 0.70 | 21 | |
| GR | 282 | ALISTRATI | 23.97 | 41.07 | 281 | 0.87 | 21 | |
| GR | 95 | AMARANTOS | 20.73 | 40.17 | 925 | 0.87 | 18 | |
| GR | 115 | ANEMORAHI | 21.08 | 39.32 | 400 | 0.37 | 21 | |
| GR | 84 | ANIADA | 21.78 | 38.82 | 1060 | 1.50 | 26 | |
| GR | 142 | ANO CALENDINI | 21.20 | 39.25 | 244 | 0.82 | 24 | |
| GR | 38 | ANO KARIES | 22.03 | 37.43 | 980 | 1.16 | 7 | |
| GR | 40 | ANO MELPIA | 21.95 | 37.33 | 630 | 0.45 | 14 | |
| GR | 283 | ANO VRONTOU | 23.68 | 41.30 | 1053 | 1.62 | 21 | |
| GR | 276 | ANTHOFITO | 22.72 | 40.85 | 150 | 0.55 | 21 | |
| GR | 10 | ARAHAMITES | 22.23 | 37.45 | 760 | 0.64 | 23 | |
| GR | 313 | ARCHANES | 25.17 | 35.23 | 380 | 0.37 | 25 | |
| GR | 61 | ARGITHEA | 21.55 | 39.35 | 980 | 1.75 | 22 | |
| GR | 186 | ARGOS ORESTICO | 21.27 | 40.47 | 650 | 0.89 | 23 | |
| GR | 274 | ARNEA | 23.60 | 40.48 | 595 | 0.83 | 20 | |

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|---|---|---|---|---|---|---|---|---|
| GR | 64 | ATROXORI | 21.28 | 39.27 | 560 | 1.92 | 25 | * |
| GR | 204 | AXLADA | 21.58 | 40.87 | 740 | 2.37 | 6 | |
| GR | 265 | AXLADIA | 24.02 | 41.40 | 600 | 1.19 | 23 | * |
| GR | 264 | AXLADOHORI | 23.53 | 41.32 | 485 | 0.32 | 18 | |
| GR | 21 | BOZIKA | 22.60 | 37.92 | 850 | 0.61 | 14 | |
| GR | 237 | BRALOS | 22.47 | 38.73 | 600 | 1.51 | 18 | |
| GR | 220 | CALITHEA | 21.15 | 40.80 | 1080 | 1.63 | 18 | |
| GR | 309 | CALIVOS | 24.78 | 35.32 | 530 | 0.50 | 25 | |
| GR | 303 | CANDANOS | 23.75 | 35.33 | 420 | 0.43 | 23 | |
| GR | 196 | CARPERO | 21.62 | 39.95 | 510 | 0.91 | 23 | |
| GR | 242 | CASTORIA | 21.27 | 40.52 | 651 | 1.08 | 30 | |
| GR | 256 | CATAFITO | 23.68 | 41.35 | 740 | 1.19 | 22 | |
| GR | 259 | CATO VRONTOU | 23.75 | 41.27 | 660 | 1.32 | 23 | |
| GR | 193 | CIDONIES | 21.28 | 40.17 | 910 | 1.48 | 21 | |
| GR | 99 | CIPI | 20.80 | 39.87 | 790 | 0.79 | 18 | |
| GR | 192 | CIPOURGIO | 21.37 | 39.95 | 868 | 1.99 | 24 | |
| GR | 187 | CLISSOURA | 21.47 | 40.53 | 1250 | 1.57 | 16 | |
| GR | 137 | CONIACOS | 22.18 | 38.65 | 850 | 1.01 | 21 | |
| GR | 139 | DAFNOS | 22.10 | 38.50 | 1050 | 1.50 | 21 | |
| GR | 232 | DAVLIA | 22.73 | 38.52 | 380 | 0.72 | 25 | |
| GR | 184 | DENDROHORI | 21.15 | 40.58 | 980 | 0.92 | 21 | |
| GR | 171 | DESKATI | 21.80 | 39.93 | 830 | 1.61 | 19 | |
| GR | 208 | DISTRATO | 21.02 | 40.03 | 950 | 1.27 | 5 | |
| GR | 174 | DRACOTRIPA | 21.60 | 39.42 | 680 | 2.16 | 25 | |
| GR | 236 | DRIMEA | 22.57 | 38.72 | 580 | 1.33 | 25 | |
| GR | 211 | DROSSOPIGI | 20.90 | 40.22 | 1055 | 1.22 | 5 | |
| GR | 198 | EANI | 21.82 | 40.17 | 480 | 0.79 | 22 | |
| GR | 290 | EHINOS | 24.97 | 41.28 | 340 | 1.45 | 21 | |
| GR | 224 | ELASSONA | 22.18 | 39.90 | 312 | 0.86 | 36 | |
| GR | 110 | ELATOHORI | 20.98 | 39.87 | 1014 | 1.57 | 21 | |
| GR | 70 | EPINIANA | 21.62 | 39.13 | 1050 | 2.09 | 23 | |
| GR | 206 | EPTAHORI | 21.03 | 40.22 | 860 | 1.13 | 18 | |
| GR | 278 | EVROPOS | 22.38 | 40.90 | 70 | 0.72 | 20 | |
| GR | 194 | EXARHOS | 21.63 | 40.17 | 720 | 1.03 | 21 | |
| GR | 254 | EXOHI | 23.82 | 41.42 | 620 | 0.91 | 23 | |
| GR | 209 | FOURCA | 20.93 | 40.17 | 1350 | 2.33 | 12 | |
| GR | 168 | FOURNA | 21.87 | 39.07 | 820 | 1.50 | 23 | |
| GR | 132 | FRAXO | 21.30 | 39.32 | 700 | 0.29 | 5 | |
| GR | 19 | FROUSSOUNA | 22.42 | 37.72 | 1020 | 1.41 | 14 | |
| GR | 188 | GALATINI | 21.55 | 40.32 | 990 | 2.03 | 16 | |
| GR | 277 | GOUMENISSA | 22.45 | 40.95 | 255 | 0.89 | 34 | |
| GR | 89 | GRAMMENI OXIA | 22.00 | 38.73 | 1160 | 2.22 | 15 | |
| GR | 250 | GRANITIS | 23.93 | 41.28 | 790 | 1.45 | 23 | |
| GR | 183 | HALARA | 21.23 | 40.65 | 880 | 1.32 | 23 | |
| GR | 97 | ILIOHORI | 20.92 | 39.98 | 980 | 1.38 | 13 | |
| GR | 234 | IPATI | 22.23 | 38.87 | 286 | 1.62 | 18 | |
| GR | 243 | KALIPEFKI | 22.47 | 39.97 | 1050 | 2.52 | 12 | |
| GR | 58 | KAPSALA | 21.25 | 39.40 | 840 | 1.71 | 25 | |
| GR | 4 | KARDARAS | 22.30 | 37.62 | 950 | 1.77 | 10 | |
| GR | 165 | KAROPLESSI | 21.77 | 39.17 | 910 | 2.52 | 23 | |
| GR | 201 | KATAFIGIO | 22.15 | 40.25 | 1100 | 2.00 | 12 | |
| GR | 248 | KATO ORINI | 23.58 | 41.20 | 730 | 0.75 | 17 | |
| GR | 44 | KATO VLASSIA | 21.92 | 38.00 | 800 | 0.89 | 11 | |
| GR | 46 | KERPINI | 22.10 | 38.08 | 1090 | 1.91 | 11 | |
| GR | 167 | KLISTO | 21.82 | 39.08 | 780 | 1.77 | 26 | |
| GR | 85 | KRIKELO | 21.85 | 38.80 | 1120 | 2.13 | 26 | |

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|---|---|---|---|---|---|---|---|---|
| GR | 47 | LAGOVOUNI | 22.07 | 37.97 | 880 | 0.78 | 9 | |
| GR | 262 | LECANI | 24.55 | 41.17 | 710 | 0.98 | 23 | |
| GR | 200 | LEFCARA | 21.97 | 40.28 | 470 | 0.53 | 22 | |
| GR | 197 | LEFCOPIGI | 21.75 | 40.23 | 660 | 0.74 | 20 | |
| GR | 273 | LICODROMI | 24.78 | 41.22 | 320 | 0.51 | 22 | |
| GR | 205 | LICORAHI | 20.90 | 40.27 | 1000 | 1.54 | 4 | |
| GR | 255 | LOFCOGIA | 23.88 | 41.42 | 640 | 1.20 | 22 | |
| GR | 26 | LOGANIKOS | 22.25 | 37.23 | 780 | 0.84 | 23 | |
| GR | 238 | MACRINITSA | 22.98 | 39.40 | 690 | 2.59 | 33 | |
| GR | 251 | MACRIPLAGI | 24.27 | 41.22 | 750 | 0.73 | 22 | |
| GR | 79 | MALESSIADA | 21.33 | 38.90 | 380 | 0.21 | 12 | |
| GR | 16 | MATI | 22.33 | 37.82 | 760 | 0.91 | 19 | |
| GR | 113 | MATSOUCI | 21.17 | 39.57 | 1070 | 1.38 | 18 | |
| GR | 129 | MAYROMATA | 21.73 | 39.07 | 900 | 1.63 | 25 | |
| GR | 29 | MEGALOPOLIS | 22.13 | 37.38 | 430 | 0.30 | 19 | |
| GR | 304 | MESCLA | 23.97 | 35.40 | 200 | 0.21 | 32 | |
| GR | 57 | MESOXORA | 21.33 | 39.48 | 880 | 1.47 | 24 | |
| GR | 185 | MESSOPOTAMIA | 21.15 | 40.52 | 695 | 0.96 | 22 | |
| GR | 179 | MESSOVOUNO | 21.83 | 40.63 | 880 | 1.53 | 16 | |
| GR | 268 | MESSOXORI | 24.80 | 41.27 | 120 | 0.62 | 22 | |
| GR | 199 | METAXAS | 21.97 | 40.08 | 1040 | 1.23 | 23 | * |
| GR | 102 | METSOVO | 21.13 | 39.82 | 1350 | 1.17 | 6 | |
| GR | 111 | MICRO PERISTERI | 21.08 | 39.75 | 1040 | 1.07 | 25 | |
| GR | 66 | MIKRA VRAGIANA | 21.45 | 39.23 | 590 | 1.01 | 25 | |
| GR | 222 | MIKROLIMNI | 21.12 | 40.75 | 850 | 0.71 | 20 | |
| GR | 83 | MIRIKI | 21.82 | 38.88 | 1100 | 2.92 | 26 | |
| GR | 166 | MOLOHA | 21.87 | 39.15 | 790 | 2.25 | 22 | |
| GR | 53 | MONASTHRAKI | 21.58 | 39.08 | 660 | 0.87 | 25 | |
| GR | 190 | NEAPOLIS | 21.38 | 40.32 | 650 | 1.01 | 22 | |
| GR | 162 | NEOXORI | 21.87 | 38.97 | 800 | 4.02 | 26 | |
| GR | 285 | NIGRITA | 23.50 | 40.92 | 67 | 0.46 | 21 | |
| GR | 310 | NITHAVRI | 24.73 | 35.17 | 500 | 0.89 | 15 | |
| GR | 258 | OHIRO | 23.85 | 41.30 | 550 | 0.97 | 23 | |
| GR | 288 | ORGANI | 25.68 | 41.25 | 400 | 1.17 | 21 | |
| GR | 56 | PACHTOURI | 21.32 | 39.47 | 950 | 1.68 | 23 | |
| GR | 207 | PADES | 20.92 | 40.05 | 1170 | 1.11 | 9 | |
| GR | 126 | PALEOXORI | 21.42 | 39.62 | 1050 | 1.90 | 23 | |
| GR | 249 | PANORAMA | 23.83 | 41.25 | 550 | 0.67 | 17 | |
| GR | 203 | PAPADIA | 21.68 | 40.88 | 900 | 1.13 | 9 | |
| GR | 98 | PAPINGO | 20.73 | 39.97 | 965 | 0.85 | 14 | |
| GR | 146 | PAVLOPOULO | 21.73 | 39.00 | 880 | 1.67 | 19 | |
| GR | 189 | PEFCOS | 20.95 | 40.38 | 980 | 1.36 | 12 | |
| GR | 49 | PERITHORI | 22.35 | 38.03 | 940 | 2.00 | 24 | |
| GR | 257 | PERITHORI | 23.78 | 41.32 | 600 | 1.02 | 23 | |
| GR | 13 | PIANA | 22.23 | 37.57 | 980 | 1.00 | 8 | |
| GR | 161 | PITSIOTA | 21.90 | 39.02 | 800 | 1.99 | 26 | |
| GR | 210 | PLAGIA | 20.93 | 40.23 | 1000 | 0.63 | 4 | |
| GR | 96 | PLICATI | 20.77 | 40.30 | 1250 | 2.43 | 5 | |
| GR | 279 | POLICASTRO | 22.57 | 41.00 | 50 | 0.46 | 21 | |
| GR | 107 | POLILOFO | 20.70 | 39.63 | 702 | 0.43 | 13 | |
| GR | 266 | POTAMI | 24.10 | 41.40 | 390 | 0.71 | 22 | |
| GR | 31 | POTAMIA | 22.13 | 37.30 | 390 | 0.36 | 18 | |
| GR | 124 | POURNIA | 20.85 | 40.13 | 947 | 0.69 | 14 | |
| GR | 114 | PRAMANTA | 21.10 | 39.53 | 817 | 1.11 | 15 | |
| GR | 269 | PRASSINADA | 24.55 | 41.37 | 660 | 0.45 | 22 | |
| GR | 270 | PTELEA | 24.45 | 41.22 | 410 | 0.66 | 22 | |

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|---|---|---|---|---|---|---|---|---|
| GR | 177 | PTOLEMAIDA | 21.73 | 40.47 | 650 | 0.86 | 15 | |
| GR | 8 | ROINO | 22.28 | 37.58 | 1080 | 1.40 | 17 | |
| GR | 100 | SCAMNELI | 20.85 | 39.93 | 1180 | 1.55 | 12 | |
| GR | 117 | SCOULICARIA | 21.27 | 39.65 | 827 | 1.53 | 26 | |
| GR | 244 | SFICIA | 22.22 | 40.38 | 600 | 1.79 | 23 | |
| GR | 226 | SIATISTA | 21.55 | 40.27 | 931 | 1.50 | 21 | |
| GR | 260 | SIDIRONERO | 24.23 | 41.37 | 570 | 1.00 | 22 | |
| GR | 18 | SKOTINI | 22.45 | 37.78 | 690 | 1.69 | 14 | |
| GR | 125 | STOURNAREIKA | 21.48 | 39.47 | 860 | 1.56 | 23 | |
| GR | 291 | TOXOTES | 24.77 | 41.08 | 59 | 0.75 | 11 | |
| GR | 77 | TRIKLINO | 21.45 | 38.97 | 620 | 1.87 | 26 | |
| GR | 68 | TROVATO | 21.60 | 39.22 | 1060 | 2.08 | 22 | |
| GR | 319 | TZERMIADES | 25.48 | 35.20 | 820 | 1.30 | 25 | |
| GR | 55 | VAKARI | 21.37 | 39.50 | 1150 | 1.61 | 13 | |
| GR | 172 | VATHILAKOS | 21.95 | 39.13 | 800 | 1.47 | 23 | |
| GR | 60 | VATHIREMA | 21.42 | 39.45 | 920 | 1.61 | 25 | |
| GR | 180 | VISSINIA | 21.32 | 40.62 | 950 | 1.39 | 21 | |
| GR | 181 | VOGATSICO | 21.38 | 40.42 | 770 | 1.12 | 23 | |
| GR | 267 | VOLACAS | 24.00 | 41.32 | 840 | 1.41 | 23 | |
| GR | 175 | VOSKOHORI | 22.00 | 40.37 | 770 | 0.67 | 8 | |
| GR | 93 | VOULPIANI | 20.78 | 40.25 | 950 | 1.28 | 18 | |
| GR | 94 | VOVOUSSA | 21.05 | 39.93 | 1000 | 1.05 | 18 | |
| GR | 221 | VRONTERO | 21.02 | 40.75 | 1090 | 1.27 | 20 | |
| GR | 48 | ZAROUHLA | 22.30 | 37.98 | 1090 | 1.86 | 10 | |
| GR | 35 | ZATOUNA | 22.03 | 37.58 | 900 | 0.85 | 10 | |
| GR | 128 | ZITSA | 20.65 | 39.75 | 710 | 0.68 | 9 | |
| IR | 6 | BELMULLET | -10.00 | 54.33 | 11 | 0.10 | 39 | * |
| IR | 14 | BIRR | -7.88 | 53.08 | 70 | 0.20 | 41 | |
| IR | 12 | CASEMENT | -6.49 | 53.36 | 94 | 0.35 | 34 | |
| IR | 9 | CLAREMORRIS | -9.06 | 53.81 | 71 | 0.28 | 46 | |
| IR | 7 | CLONES | -7.23 | 54.18 | 89 | 0.32 | 43 | |
| IR | 13 | CORK | -8.48 | 51.85 | 162 | 0.35 | 34 | |
| IR | 4 | DUBLIN | -6.25 | 53.43 | 71 | 0.33 | 51 | |
| IR | 11 | KILKENNY | -7.29 | 52.80 | 66 | 0.18 | 40 | * |
| IR | 1 | MALIN HEAD | -7.39 | 55.42 | 27 | 0.12 | 41 | * |
| IR | 10 | MULLINGAR | -7.33 | 53.58 | 104 | 0.25 | 47 | |
| IR | 5 | ROCHE'S POINT | -8.34 | 51.88 | 43 | 0.19 | 30 | |
| IR | 8 | ROSSLARE | -6.33 | 52.25 | 23 | 0.17 | 37 | * |
| IR | 3 | SHANNON | -8.92 | 52.68 | 8 | 0.09 | 43 | |
| IR | 2 | VALENTIA | -10.34 | 52.00 | 12 | 0.06 | 58 | * |
| IS | 260 | Æðey | -22.67 | 66.10 | 5 | 5.47 | 41 | |
| IS | 95 | Akranes | -22.08 | 64.32 | 7 | 1.52 | 14 | |
| IS | 422 | Akureyri | -18.08 | 65.68 | 23 | 6.56 | 32 | |
| IS | 103 | Andakílsárvirkjun | -21.70 | 64.53 | 10 | 1.87 | 36 | |
| IS | 168 | Arnarstapi | -23.63 | 64.77 | 20 | 2.31 | 23 | |
| IS | 936 | Austurey II | -20.65 | 64.18 | 65 | 1.95 | 30 | |
| IS | 520 | Bakkafjörður | -14.80 | 66.03 | 20 | 5.67 | 16 | |
| IS | 361 | Bergstaðir | -19.62 | 65.70 | 43 | 1.78 | 18 | |
| IS | 578 | Birkihlíð | -14.62 | 65.00 | 120 | 3.41 | 13 | |
| IS | 827 | Bjóla í Þykkvabæ | -20.47 | 63.80 | 15 | 1.31 | 30 | |
| IS | 341 | Blönduós | -20.30 | 65.67 | 23 | 1.48 | 15 | |
| IS | 132 | Brekka | -21.53 | 64.78 | 80 | 5.67 | 28 | |
| IS | 542 | Brú á Jökuldal | -15.53 | 65.10 | 360 | 2.94 | 28 | |
| IS | 192 | Búðardalur | -21.78 | 65.10 | 20 | 2.40 | 12 | |
| IS | 620 | Dalatangi | -13.58 | 65.27 | 9 | 3.79 | 33 | |
| IS | 562 | Dratthalastaðir | -14.33 | 65.55 | 37 | 6.83 | 32 | |

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|---|---|---|---|---|---|---|---|---|
| IS | 570 | Egilsstaðir | -14.37 | 65.30 | 37 | 4.81 | 19 | |
| IS | 923 | Eyrarbakki | -21.15 | 63.87 | 5 | 2.04 | 35 | |
| IS | 533 | Fagridalur | -14.45 | 65.78 | 39 | 3.83 | 21 | |
| IS | 745 | Fagurhólsmýri | -16.65 | 63.88 | 46 | 1.91 | 71 | |
| IS | 210 | Flatey | -22.92 | 65.37 | 3 | 1.18 | 13 | |
| IS | 335 | Forsæludalur | -20.10 | 65.30 | 95 | 2.90 | 12 | |
| IS | 915 | Forsæti | -20.72 | 63.85 | 10 | 3.03 | 36 | |
| IS | 250 | Galtarviti | -23.57 | 66.17 | 20 | 6.99 | 25 | |
| IS | 484 | Garður II | -16.77 | 66.07 | 22 | 7.98 | 35 | |
| IS | 295 | Gjögur | -21.35 | 65.98 | 5 | 9.52 | 33 | |
| IS | 575 | Grímsárvirkjun | -14.53 | 65.13 | 95 | 3.64 | 36 | |
| IS | 404 | Grímsey | -18.02 | 66.53 | 15 | 5.21 | 24 | |
| IS | 495 | Grímsstaðir | -16.12 | 65.63 | 384 | 6.94 | 53 | |
| IS | 983 | Grindavík | -22.43 | 63.83 | 5 | 2.00 | 12 | |
| IS | 170 | Gufuskálar | -23.93 | 64.90 | 7 | 3.13 | 13 | |
| IS | 563 | Gunnhildargerði | -14.38 | 65.55 | 33 | 5.31 | 23 | |
| IS | 907 | Hæll | -20.25 | 64.07 | 121 | 2.76 | 38 | |
| IS | 580 | Hallormsstaður | -14.72 | 65.10 | 60 | 3.83 | 42 | |
| IS | 188 | Hamraendar | -21.70 | 65.02 | 55 | 4.76 | 40 | |
| IS | 949 | Heiðarbær | -21.23 | 64.20 | 125 | 4.32 | 16 | |
| IS | 855 | Hella | -20.40 | 63.83 | 20 | 3.13 | 39 | |
| IS | 340 | Hjaltabakki | -20.30 | 65.63 | 43 | 2.31 | 12 | |
| IS | 163 | Hjarðarfell | -22.75 | 64.87 | 80 | 2.26 | 27 | |
| IS | 303 | Hlaðhamar | -21.17 | 65.27 | 28 | 3.74 | 36 | |
| IS | 705 | Höfn í Hornafirði | -15.18 | 64.25 | 9 | 1.69 | 10 | |
| IS | 234 | Hólar í Dýrafirði | -23.60 | 65.87 | 30 | 5.26 | 14 | |
| IS | 385 | Hólar í Hjaltadal | -19.12 | 65.73 | 160 | 5.06 | 35 | |
| IS | 710 | Hólar í Hornafirði | -15.20 | 64.30 | 16 | 2.13 | 59 | |
| IS | 30 | Hólmur | -21.72 | 64.08 | 87 | 3.13 | 23 | |
| IS | 284 | Horn á Hornströndum | -22.45 | 66.45 | 17 | 8.60 | 7 | |
| IS | 285 | Hornbjargsviti | -22.38 | 66.42 | 27 | 11.82 | 35 | |
| IS | 352 | Hraun á Skaga | -20.12 | 66.12 | 3 | 2.22 | 39 | |
| IS | 398 | Hraun í Fljótum | -19.07 | 66.10 | 52 | 9.00 | 7 | |
| IS | 222 | Hvallátur | -24.47 | 65.53 | 17 | 2.71 | 30 | |
| IS | 607 | Hvannstóð | -13.88 | 65.47 | 88 | 13.59 | 7 | |
| IS | 892 | Hveravellir | -19.57 | 64.87 | 641 | 6.88 | 31 | |
| IS | 254 | Ísafjörður | -23.12 | 66.08 | 27 | 5.21 | 16 | |
| IS | 902 | Jaðar | -20.17 | 64.28 | 135 | 1.82 | 38 | |
| IS | 406 | Kálfsárkot | -18.75 | 66.02 | 30 | 14.67 | 11 | |
| IS | 660 | Kambanes | -13.85 | 64.80 | 20 | 2.22 | 29 | |
| IS | 990 | Keflavík | -22.60 | 63.97 | 49 | 2.26 | 32 | |
| IS | 772 | Kirkjubæjarklaustur | -18.07 | 63.78 | 32 | 3.22 | 57 | |
| IS | 635 | Kollaleira | -14.23 | 65.03 | 25 | 3.74 | 20 | |
| IS | 301 | Kollsá í Hrútafirði | -21.18 | 65.35 | 12 | 5.21 | 11 | |
| IS | 46 | Korpúlfsstaðir | -21.75 | 64.15 | 35 | 1.73 | 10 | |
| IS | 224 | Kvígindisdalur | -24.02 | 65.55 | 49 | 3.45 | 66 | |
| IS | 740 | Kvísker | -16.43 | 63.98 | 30 | 3.36 | 36 | |
| IS | 919 | Lækjarbakki | -20.90 | 63.80 | 10 | 1.43 | 36 | |
| IS | 220 | Lambavatn | -24.10 | 65.50 | 5 | 2.53 | 73 | |
| IS | 927 | Laugardælir | -20.97 | 63.95 | 20 | 2.17 | 14 | |
| IS | 875 | Leirubakki | -20.00 | 64.00 | 110 | 1.82 | 20 | |
| IS | 448 | Lerkihlíð | -17.88 | 65.72 | 175 | 9.81 | 34 | |
| IS | 479 | Mánárbakki | -17.10 | 66.20 | 17 | 3.88 | 39 | |
| IS | 202 | Máskelda | -21.88 | 65.38 | 20 | 2.04 | 27 | |
| IS | 938 | Miðfell | -21.07 | 64.17 | 110 | 3.88 | 19 | |
| IS | 790 | Mýrar í Álftaveri | -18.33 | 63.50 | 20 | 2.85 | 36 | |

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|---|---|---|---|---|---|---|---|---|
| IS | 462 | Mýri | -17.40 | 65.38 | 295 | 3.27 | 36 | |
| IS | 366 | Nautabú | -19.37 | 65.45 | 115 | 3.55 | 27 | |
| IS | 951 | Nesjavellir | -21.25 | 64.15 | 157 | 8.88 | 11 | |
| IS | 625 | Neskaupstaður | -13.67 | 65.15 | 29 | 6.09 | 13 | |
| IS | 825 | Önnupartur | -20.62 | 63.75 | 10 | 2.17 | 29 | |
| IS | 680 | Papey | -14.17 | 64.58 | 19 | 4.27 | 15 | |
| IS | 505 | Raufarhöfn | -15.95 | 66.45 | 5 | 9.52 | 51 | |
| IS | 206 | Reykhólar | -22.20 | 65.45 | 27 | 1.65 | 32 | |
| IS | 957 | Reykir í Ölfusi | -21.18 | 64.00 | 51 | 1.95 | 18 | |
| IS | 985 | Reykjanes | -22.72 | 63.82 | 20 | 1.78 | 28 | |
| IS | 1 | Reykjavík | -21.90 | 64.13 | 52 | 2.04 | 73 | |
| IS | 25 | Rjúpnahæð | -21.85 | 64.08 | 120 | 2.85 | 19 | |
| IS | 449 | Sandbúðir | -17.98 | 64.93 | 821 | 7.92 | 5 | |
| IS | 458 | Sandhaugar | -17.50 | 65.57 | 175 | 9.46 | 30 | |
| IS | 452 | Sandur | -17.55 | 65.95 | 3 | 5.72 | 36 | |
| IS | 508 | Sauðanes | -15.25 | 66.25 | 17 | 3.31 | 17 | |
| IS | 400 | Sauðanesviti | -18.97 | 66.18 | 30 | 5.01 | 7 | |
| IS | 360 | Sauðárkrókur | -19.65 | 65.75 | 5 | 3.27 | 14 | |
| IS | 126 | Síðumúli | -21.37 | 64.72 | 78 | 1.69 | 26 | |
| IS | 401 | Siglufjörður | -18.92 | 66.13 | 1 | 10.50 | 15 | |
| IS | 402 | Siglunes | -18.83 | 66.18 | 8 | 6.67 | 47 | |
| IS | 748 | Skaftafell | -16.98 | 64.02 | 160 | 1.73 | 26 | |
| IS | 396 | Skeiðsfoss | -19.02 | 66.00 | 84 | 16.19 | 7 | |
| IS | 807 | Skógar | -19.50 | 63.53 | 36 | 2.62 | 31 | |
| IS | 510 | Skoruvík | -14.77 | 66.35 | 13 | 3.22 | 17 | |
| IS | 388 | Skriðuland | -19.12 | 65.77 | 150 | 5.11 | 17 | |
| IS | 445 | Sólvangur | -17.87 | 65.77 | 120 | 7.32 | 8 | |
| IS | 473 | Staðarhóll | -17.35 | 65.82 | 42 | 5.57 | 36 | |
| IS | 694 | Stafafell | -14.87 | 64.42 | 45 | 1.78 | 7 | |
| IS | 108 | Stafholtsey | -21.60 | 64.62 | 14 | 1.60 | 7 | |
| IS | 70 | Stardalur | -21.48 | 64.22 | 185 | 5.57 | 34 | |
| IS | 815 | Stórhöfði | -20.28 | 63.40 | 118 | 2.53 | 73 | |
| IS | 88 | Stóri-Botn | -21.30 | 64.38 | 60 | 1.95 | 22 | |
| IS | 521 | Strandhöfn | -14.65 | 65.90 | 20 | 4.96 | 16 | |
| IS | 178 | Stykkishólmur | -22.73 | 65.08 | 21 | 2.67 | 55 | |
| IS | 248 | Suðureyri | -23.53 | 66.13 | 3 | 7.53 | 38 | |
| IS | 463 | Svartárkot | -17.25 | 65.33 | 405 | 7.53 | 7 | |
| IS | 675 | Teigarhorn | -14.35 | 64.68 | 18 | 2.58 | 73 | |
| IS | 945 | Þingvellir | -21.12 | 64.25 | 113 | 2.49 | 19 | |
| IS | 240 | Þórustaðir | -23.47 | 66.02 | 20 | 7.59 | 55 | |
| IS | 519 | Þorvaldsstaðir | -14.98 | 66.03 | 6 | 2.08 | 49 | |
| IS | 145 | Þverholt | -22.15 | 64.58 | 30 | 1.60 | 18 | |
| IS | 409 | Tjörn | -18.57 | 65.93 | 25 | 7.70 | 28 | |
| IS | 426 | Torfufell | -18.27 | 65.32 | 215 | 4.27 | 21 | |
| IS | 735 | Vagnsstaðir | -15.82 | 64.18 | 7 | 2.08 | 28 | |
| IS | 802 | Vatnsskarðshólar | -19.18 | 63.42 | 20 | 3.13 | 32 | |
| IS | 932 | Vegatunga | -20.50 | 64.18 | 100 | 2.40 | 13 | |
| IS | 798 | Vík í Mýrdal | -19.02 | 63.42 | 15 | 6.35 | 44 | |
| IS | 525 | Vopnafjörður | -14.83 | 65.75 | 21 | 2.62 | 18 | |
| IT | Roma58 | Abbadia S. Salvatore | 11.72 | 42.88 | 829 | 1.03 | 41/70 | |
| IT | Torino29 | Acceglio Saretto | 6.98 | 44.48 | 1540 | 8.05 | 64/90 | |
| IT | Catanzaro83 | Acerenza | 15.98 | 40.80 | 833 | 1.65 | 50/90 | |
| IT | Bari81 | Adelfia | 16.92 | 41.00 | 151 | 1.02 | 50/90 | |
| IT | Palermo93 | Aidone | 14.50 | 37.42 | 909 | 0.55 | 60/90 | |
| IT | Milano17 | Alpe Cavalli | 8.15 | 46.08 | 1510 | 10.45 | 40/70 | |
| IT | Genova35 | Alpicella | 8.58 | 44.40 | 405 | 0.68 | 50/85 | |

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|---|---|---|---|---|---|---|---|---|
| IT | Catanzaro84 | Anzi | 15.97 | 40.52 | 1066 | 2.21 | 50/90 | |
| IT | Pisa52 | Arezzo | 11.93 | 43.47 | 277 | 0.91 | 40/60 | |
| IT | Bologna47 | Ascoli Piceno | 13.60 | 42.90 | 136 | 1.12 | 50/90 | |
| IT | Napoli74 | Avezzano | 13.48 | 42.03 | 697 | 0.93 | 74/93 | |
| IT | Roma57 | Bagnara | 12.90 | 43.12 | 620 | 2.25 | 41/70 | |
| IT | Cagliari99 | Baunei | 9.72 | 40.05 | 480 | 0.38 | 57/70 | |
| IT | Palermo92 | Bivona | 13.48 | 37.62 | 503 | 0.20 | 60/90 | * |
| IT | Bologna43 | Bologna | 11.40 | 44.50 | 51 | 1.67 | 50/90 | |
| IT | Pisa50 | Boscolungo Abetone | 10.72 | 44.13 | 1340 | 11.34 | 41/71 | |
| IT | Bari79 | Bovino | 15.38 | 41.25 | 646 | 2.00 | 50/90 | |
| IT | Palermo89 | Caccamo | 13.72 | 37.93 | 521 | 1.21 | 60/90 | * |
| IT | Milano14 | Cadarese | 8.43 | 46.30 | 725 | 3.86 | 51/90 | |
| IT | Pisa51 | Camaldoli | 11.87 | 43.80 | 1111 | 7.11 | 40/70 | |
| IT | Bologna45 | Campigna | 11.80 | 43.87 | 1068 | 6.45 | 40/70 | |
| IT | Milano16 | Camplicciolì | 8.12 | 46.05 | 1310 | 11.09 | 40/70 | |
| IT | Pescara67 | Campo Imperatore | 13.62 | 42.45 | 2125 | 14.14 | 40/70 | |
| IT | Pescara65 | Campo Tosto | 13.42 | 42.55 | 1430 | 7.34 | 40/70 | |
| IT | Bari80 | Canosa | 16.12 | 41.22 | 154 | 0.99 | 50/90 | |
| IT | Napoli76 | Cappadocia | 13.32 | 42.02 | 1157 | 3.16 | 42/70 | |
| IT | Roma60 | Castelluccio di Norcia | 13.25 | 42.83 | 1453 | 7.66 | 41/70 | |
| IT | Pisa49 | Castelnuovo Gar | 10.47 | 44.12 | 276 | 1.14 | 40/90 | |
| IT | Palermo95 | Castelvecchio Sic. | 14.92 | 37.95 | 400 | 0.47 | 60/90 | |
| IT | Torino25 | Ceresole | 7.28 | 45.43 | 1579 | 7.85 | 50/90 | |
| IT | Torino23 | Champoluc | 7.78 | 45.83 | 1570 | 6.68 | 40/70 | |
| IT | Genova37 | Chiavari | 9.37 | 44.32 | 5 | 0.24 | 50/90 | |
| IT | Venezia1 | Cividale | 13.48 | 46.10 | 138 | 1.06 | 40/61 | |
| IT | Milano13 | Codogno | 9.75 | 45.17 | 58 | 2.00 | 73/94 | |
| IT | Venezia4 | Coritis | 13.43 | 46.35 | 641 | 3.91 | 40/61 | |
| IT | Palermo91 | Corleone | 13.35 | 37.82 | 594 | 0.71 | 60/90 | |
| IT | Torino21 | Courmayeur | 7.02 | 45.78 | 1220 | 7.13 | 40/70 | |
| IT | Torino28 | Crissolo | 7.20 | 44.70 | 1410 | 7.38 | 40/70 | |
| IT | Catanzaro87 | Croceferrata | 16.33 | 38.47 | 970 | 3.81 | 50/90 | |
| IT | Bologna42 | Diga Brasimone | 11.17 | 44.12 | 830 | 4.39 | 40/70 | |
| IT | Bologna40 | Ferrara | 11.67 | 44.83 | 15 | 0.83 | 50/90 | |
| IT | Roma62 | Filettino | 13.37 | 41.88 | 1062 | 2.62 | 45/70 | |
| IT | Palermo94 | Floresta | 14.97 | 37.98 | 1250 | 5.05 | 40/69 | |
| IT | Venezia2 | Forni Avoltri | 12.83 | 46.58 | 888 | 4.01 | 40/61 | |
| IT | Milano18 | Forno | 8.33 | 45.93 | 891 | 3.88 | 40/70 | |
| IT | Pescara72 | Gambatesa | 14.97 | 41.52 | 468 | 1.68 | 74/90 | |
| IT | Venezia7 | Gares | 11.93 | 46.30 | 1381 | 10.98 | 40/61 | |
| IT | Genova36 | Genova | 8.98 | 44.40 | 2 | 0.67 | 50/90 | |
| IT | Milano15 | Goglio | 8.32 | 46.30 | 1100 | 5.18 | 40/70 | |
| IT | Torino24 | Gressoney la Tr. | 7.88 | 45.83 | 1631 | 6.94 | 40/70 | |
| IT | Pescara71 | Indiprete | 14.38 | 41.55 | 640 | 1.93 | 74/90 | |
| IT | Milano10 | Lago Baitone | 10.47 | 46.15 | 2258 | 22.94 | 40/70 | |
| IT | Torino27 | Lago della Rossa | 7.20 | 45.27 | 2716 | 16.57 | 40/70 | |
| IT | Pisa55 | Livorno | 10.35 | 43.55 | 3 | 0.60 | 40/90 | |
| IT | Milano12 | Lodi | 9.55 | 45.32 | 80 | 1.19 | 51/90 | |
| IT | Bari82 | Massafra | 17.17 | 40.58 | 116 | 0.54 | 50/90 | |
| IT | Parma31 | Mignano | 9.85 | 44.78 | 342 | 1.90 | 50/90 | |
| IT | Catanzaro85 | Moliterno | 15.92 | 40.23 | 879 | 1.15 | 50/90 | |
| IT | Roma63 | Monte Guadagnolo | 12.98 | 41.92 | 1204 | 4.05 | 41/70 | |
| IT | Roma61 | Monte Terminillo | 13.03 | 42.45 | 1750 | 14.09 | 55/70 | |
| IT | Cagliari98 | Montes | 9.47 | 40.18 | 1060 | 2.43 | 57/71 | |
| IT | Torino19 | Oropa | 8.02 | 45.63 | 1180 | 6.87 | 50/90 | |
| IT | Roma59 | Orvieto | 12.03 | 42.72 | 315 | 0.24 | 41/70 | * |

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|---|---|---|---|---|---|---|---|---|
| IT | Cagliari97 | Oschiri | 9.15 | 40.72 | 202 | 0.57 | 57/70 | |
| IT | Napoli73 | Ovindoli | 13.57 | 42.13 | 1375 | 8.30 | 42/70 | |
| IT | Parma32 | Parma | 10.37 | 44.80 | 56 | 1.35 | 50/90 | |
| IT | Genova39 | Passo Cento Croci | 9.67 | 44.42 | 1055 | 6.08 | 40/70 | |
| IT | Venezia6 | Passo Falzarego | 12.10 | 46.52 | 1985 | 14.68 | 40/61 | |
| IT | Milano9 | Passo Tonale | 10.62 | 46.25 | 1777 | 11.49 | 40/70 | |
| IT | Parma34 | Pavullo | 10.88 | 44.35 | 682 | 3.88 | 50/90 | |
| IT | Pescara66 | Penne | 13.97 | 42.47 | 438 | 1.31 | 74/90 | |
| IT | Bologna46 | Pesaro | 12.95 | 43.92 | 11 | 1.07 | 50/70 | |
| IT | Pescara69 | Pescasseroli | 13.83 | 41.80 | 1150 | 4.53 | 40/70 | |
| IT | Pescara68 | Pesco Costanzo | 14.12 | 41.88 | 1395 | 6.85 | 40/70 | |
| IT | Cagliari100 | Pira de Onni | 9.45 | 40.02 | 872 | 0.84 | 57/70 | |
| IT | Pisa53 | Pistoia | 10.97 | 43.93 | 58 | 0.79 | 40/60 | * |
| IT | Genova38 | Pontremoli/S. Annunziata | 9.93 | 44.37 | 215 | 1.12 | 50/90 | * |
| IT | Bologna41 | Porretta Terme | 11.03 | 44.15 | 349 | 2.84 | 40/70 | |
| IT | Torino22 | Prè St. Didier | 7.03 | 45.77 | 990 | 6.39 | 40/70 | |
| IT | Bologna44 | Ravenna | 12.25 | 44.42 | 4 | 0.79 | 50/90 | |
| IT | Pisa48 | Retignano | 10.32 | 44.00 | 440 | 0.80 | 40/90 | |
| IT | Pisa56 | Roccastrada | 11.22 | 43.02 | 470 | 0.89 | 60/90 | |
| IT | Torino26 | Rosone | 7.45 | 45.45 | 714 | 2.12 | 40/70 | |
| IT | Napoli77 | S. Angelo Fasanella | 15.40 | 40.45 | 557 | 0.52 | 74/93 | |
| IT | Palermo90 | S. Giuseppe Jato | 13.23 | 37.97 | 450 | 0.94 | 60/90 | |
| IT | Milano11 | S. Pellegrino | 9.72 | 45.83 | 355 | 1.68 | 51/90 | |
| IT | Bari78 | S. Severo | 15.43 | 41.68 | 87 | 0.74 | 50/90 | |
| IT | Catanzaro88 | S. Tommaso | 16.43 | 39.08 | 820 | 1.63 | 50/90 | |
| IT | Venezia5 | Sappada | 12.73 | 46.57 | 1217 | 9.15 | 40/61 | |
| IT | Catanzaro86 | Sculca | 16.55 | 39.32 | 1358 | 5.45 | 42/69 | |
| IT | Napoli75 | Sepino | 14.67 | 41.40 | 716 | 1.23 | 74/93 | |
| IT | Cagliari96 | Sorgono | 9.15 | 40.03 | 687 | 0.29 | 57/70 | * |
| IT | Pescara64 | Teramo | 13.75 | 42.67 | 300 | 0.86 | 74/90 | |
| IT | Venezia8 | Trafoi | 10.55 | 46.55 | 1548 | 9.15 | 40/61 | |
| IT | Parma33 | Vedriano | 10.45 | 44.52 | 590 | 2.53 | 50/90 | * |
| IT | Torino20 | Vercelli | 8.42 | 45.33 | 135 | 0.91 | 50/74 | * |
| IT | Pescara70 | Villa S. Maria | 14.40 | 41.95 | 330 | 1.67 | 74/90 | |
| IT | Venezia3 | Villa Santina | 12.97 | 46.42 | 363 | 2.76 | 40/61 | |
| IT | Pisa54 | Volterra | 10.90 | 43.40 | 536 | 1.06 | 40/90 | |
| LU | 590 | LUXEMBOURG | 6.12 | 49.37 | 376 | 0.60 | 12 | |
| NL | 260 | DE BILT | 5.18 | 52.10 | 2 | 0.26 | 36 | |
| NL | 235 | DE KOOY | 4.78 | 52.92 | 4 | 0.21 | 36 | |
| NL | 275 | DEELEN | 5.88 | 52.07 | 50 | 0.26 | 36 | |
| NL | 280 | EELDE | 6.58 | 53.12 | 3 | 0.34 | 36 | |
| NL | 370 | EINDHOVEN | 5.42 | 51.45 | 20 | 0.23 | 36 | |
| NL | 350 | GILZE-RIJEN | 4.93 | 51.57 | 0 | 0.29 | 36 | |
| NL | 270 | LEEUWARDEN | 5.75 | 53.22 | 1 | 0.34 | 36 | |
| NL | 380 | MAASTRICHT | 5.78 | 50.92 | 126 | 0.33 | 35 | |
| NL | 344 | ROTTERDAM | 4.43 | 51.95 | -5 | 0.35 | 10 | |
| NL | 240 | SCHIPHOL | 4.77 | 52.30 | -4 | 0.30 | 7 | |
| NL | 265 | SOESTERBERG | 5.27 | 52.13 | 0 | 0.34 | 36 | |
| NL | 290 | TWENTHE | 6.90 | 52.27 | 34 | 0.31 | 36 | |
| NL | 210 | VALKENBURG | 4.42 | 52.18 | 0 | 0.23 | 36 | |
| NL | 310 | VLISSINGEN | 3.60 | 51.45 | 8 | 0.20 | 36 | |
| NL | 375 | VOLKEL | 5.70 | 51.65 | 21 | 0.29 | 36 | |
| NO | 23160 | ÅBJØRSBRÅTEN | 9.29 | 60.92 | 639 | 2.90 | - | |
| NO | 25320 | ÅL III | 8.57 | 60.64 | 706 | 3.20 | - | |
| NO | 60970 | ÅLESUND III | 6.20 | 62.48 | 136 | 3.10 | - | |
| NO | 57940 | ÅLFOTEN | 5.67 | 61.83 | 24 | 3.30 | - | |

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|---|---|---|---|---|---|---|---|---|
| NO | 86950 | ALSVÅG I VESTERÅLEN II | 15.21 | 68.91 | 18 | 3.80 | - | |
| NO | 18250 | ALUNSJØEN | 10.86 | 59.97 | 236 | 3.60 | - | |
| NO | 8850 | ALVDAL | 10.78 | 62.03 | 485 | 1.80 | - | |
| NO | 33450 | ÅMOT | 7.97 | 59.57 | 551 | 4.80 | - | |
| NO | 61350 | ÅNDALSNES | 7.68 | 62.57 | 20 | 5.20 | - | |
| NO | 63580 | ÅNGÅRDSVATNET | 9.20 | 62.67 | 596 | 5.10 | - | |
| NO | 84450 | ANKENES | 17.41 | 68.38 | 249 | 4.10 | - | |
| NO | 17850 | ÅS | 10.78 | 59.67 | 95 | 3.00 | - | |
| NO | 35180 | ÅSBØ | 8.97 | 58.88 | 243 | 5.40 | - | |
| NO | 41480 | ÅSERAL | 7.42 | 58.62 | 278 | 5.20 | - | |
| NO | 24100 | ASK PÅ RINGERIKE | 10.18 | 60.14 | 77 | 1.90 | - | |
| NO | 19710 | ASKER | 10.44 | 59.86 | 163 | 4.40 | - | |
| NO | 8720 | ATNASJØ | 10.14 | 61.89 | 749 | 2.40 | - | |
| NO | 68420 | AUNET | 11.57 | 63.06 | 302 | 3.50 | - | |
| NO | 53700 | AURLAND | 7.20 | 60.90 | 15 | 1.20 | - | |
| NO | 63300 | AURSJØEN | 8.57 | 62.40 | 869 | 4.80 | - | |
| NO | 10600 | AURSUND | 11.45 | 62.67 | 685 | 5.00 | - | |
| NO | 21670 | AUST-TORPA | 10.12 | 60.93 | 485 | 3.80 | - | |
| NO | 25540 | BAKKO I HOL | 8.01 | 60.68 | 969 | 5.30 | - | |
| NO | 72250 | BANGDALEN | 11.54 | 64.33 | 62 | 4.90 | - | |
| NO | 86850 | BARKESTAD | 14.80 | 68.82 | 3 | 3.50 | - | |
| NO | 3200 | BATERØD | 11.13 | 59.31 | 31 | 2.10 | - | |
| NO | 81100 | BEIARN | 14.58 | 67.00 | 5 | 3.90 | - | |
| NO | 23560 | BEITO | 8.86 | 61.24 | 754 | 3.80 | - | |
| NO | 70910 | BERG | 12.42 | 64.25 | 127 | 3.80 | - | |
| NO | 30860 | BERGELIGREND | 9.06 | 59.89 | 514 | 3.50 | - | |
| NO | 11190 | BERGER BRUK | 11.12 | 60.27 | 190 | 4.40 | - | |
| NO | 66710 | BERKÅK | 10.02 | 62.83 | 441 | 5.10 | - | |
| NO | 71900 | BESSAKER | 10.33 | 64.25 | 12 | 1.70 | - | |
| NO | 30330 | BESSTUL I GJERPEN | 9.54 | 59.45 | 460 | 6.30 | - | |
| NO | 11900 | BIRI | 10.60 | 60.95 | 190 | 3.40 | - | |
| NO | 40900 | BJÅEN | 7.44 | 59.64 | 927 | 5.90 | - | |
| NO | 45600 | BJØRHEIM/RYFYLKE | 6.03 | 59.08 | 64 | 1.30 | - | |
| NO | 84070 | BJØRKÅSEN | 16.79 | 68.32 | 80 | 4.90 | - | |
| NO | 55430 | BJØRKEHAUG I JOSTEDAL | 7.27 | 61.64 | 324 | 8.90 | - | |
| NO | 2610 | BJØRKELANGEN | 11.57 | 59.89 | 135 | 2.70 | - | |
| NO | 13870 | BJØRNHØLEN | 9.07 | 61.36 | 1024 | 3.90 | - | |
| NO | 18500 | BJØRNHOLT | 10.69 | 60.05 | 360 | 6.00 | - | |
| NO | 99450 | BJØRNSUND | 30.07 | 69.45 | 28 | 2.40 | - | |
| NO | 9870 | BLANKTJERNMOEN I KVIKNE | 10.42 | 62.43 | 690 | 1.70 | - | |
| NO | 18700 | BLINDERN | 10.72 | 59.94 | 94 | 2.20 | - | |
| NO | 82290 | BODØ | 14.43 | 67.27 | 11 | 2.50 | - | |
| NO | 79800 | BOLNA | 15.23 | 66.50 | 549 | 5.80 | - | |
| NO | 48750 | BONDHUS | 6.28 | 60.12 | 37 | 1.70 | - | |
| NO | 88100 | BONES | 18.25 | 68.65 | 230 | 6.00 | - | |
| NO | 87350 | BORKENES | 16.19 | 68.77 | 36 | 4.30 | - | |
| NO | 54500 | BORLO | 7.96 | 61.07 | 502 | 1.70 | - | |
| NO | 27140 | BORREVANNET | 10.44 | 59.42 | 12 | 5.40 | - | |
| NO | 37570 | BORSÆ | 7.83 | 59.38 | 740 | 7.70 | - | |
| NO | 95600 | BØRSELV | 25.55 | 70.32 | 10 | 2.40 | - | |
| NO | 48160 | BØRTVEIT | 5.53 | 59.89 | 4 | 1.80 | - | |
| NO | 57480 | BOTNEN/FØRDE | 6.06 | 61.54 | 237 | 7.50 | - | |
| NO | 15430 | BØVERDAL | 8.24 | 61.72 | 701 | 2.40 | - | |
| NO | 15720 | BRÅTÅ | 7.86 | 61.91 | 712 | 3.80 | - | |
| NO | 52930 | BREKKE | 5.43 | 60.96 | 240 | 4.80 | - | |
| NO | 1400 | BREKKE SLUSE | 11.56 | 59.15 | 114 | 2.50 | - | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO | 10750 | BREKKEBYGD | 11.88 | 62.65 | 712 | 2.80 | - | |
| NO | 51400 | BREKKHUS | 6.14 | 60.74 | 202 | 6.00 | - | |
| NO | 95430 | BRENNELV | 25.12 | 70.07 | 35 | 1.80 | - | |
| NO | 58480 | BRIKSDAL | 6.81 | 61.69 | 40 | 2.10 | - | |
| NO | 76320 | BRØNNØYSUND III | 12.22 | 65.47 | 5 | 2.80 | - | |
| NO | 60900 | BRUSDALSVANN | 6.47 | 62.47 | 188 | 7.50 | - | |
| NO | 18200 | BRYN | 10.82 | 59.92 | 93 | 2.60 | - | |
| NO | 99150 | BUGØYFJORD | 29.42 | 69.85 | 8 | 2.30 | - | |
| NO | 56440 | BULANDET | 4.63 | 61.28 | 4 | 1.20 | - | |
| NO | 51470 | BULKEN | 6.22 | 60.65 | 323 | 4.30 | - | |
| NO | 69960 | BURAN | 11.55 | 63.72 | 182 | 2.80 | - | |
| NO | 30870 | BUSNESGREND | 8.99 | 59.80 | 397 | 4.50 | - | |
| NO | 13900 | BYGDIN | 8.80 | 61.33 | 1055 | 7.00 | - | |
| NO | 68000 | BYNESET | 10.12 | 63.39 | 98 | 3.90 | - | |
| NO | 97350 | CUOVDDATMOHKKI | 24.43 | 69.37 | 286 | 2.00 | - | |
| NO | 56650 | DALE I SUNNFJORD II | 5.40 | 61.35 | 51 | 3.60 | - | |
| NO | 19750 | DIKEMARK | 10.38 | 59.80 | 180 | 5.90 | - | |
| NO | 89950 | DIVIDALEN | 19.71 | 68.78 | 228 | 1.20 | - | |
| NO | 19480 | DØNSKI | 10.50 | 59.90 | 59 | 3.10 | - | |
| NO | 38380 | DOVLAND | 8.04 | 58.52 | 259 | 4.50 | - | |
| NO | 83700 | DRAG | 16.03 | 68.05 | 60 | 3.60 | - | |
| NO | 34600 | DRANGEDAL | 9.07 | 59.10 | 82 | 3.90 | - | |
| NO | 78100 | DREVJA | 13.42 | 66.00 | 63 | 5.80 | - | |
| NO | 700 | DREVSJØ | 12.05 | 61.89 | 672 | 2.60 | - | |
| NO | 17750 | DRØBAK | 10.63 | 59.67 | 85 | 4.60 | - | |
| NO | 79740 | DUNDERLANDSDALEN | 14.91 | 66.51 | 154 | 6.90 | - | |
| NO | 35080 | EGELANDS VERK | 9.12 | 58.80 | 46 | 5.20 | - | |
| NO | 26370 | EGGEDAL | 9.35 | 60.25 | 271 | 3.80 | - | |
| NO | 20360 | EGGEMOEN | 10.32 | 60.20 | 192 | 2.80 | - | |
| NO | 62900 | EIDE | 7.39 | 62.89 | 49 | 4.50 | - | |
| NO | 3410 | EIDSBERG II | 11.28 | 59.50 | 141 | 3.30 | - | |
| NO | 11120 | EIDSVOLL VERK | 11.16 | 60.30 | 181 | 3.80 | - | |
| NO | 57680 | EIKEFJORD | 5.47 | 61.59 | 30 | 2.80 | - | |
| NO | 47820 | EIKEMO | 6.28 | 59.86 | 178 | 4.30 | - | |
| NO | 61850 | EIKESDAL | 8.18 | 62.47 | 39 | 3.30 | - | |
| NO | 11710 | EINAVATN | 10.64 | 60.60 | 406 | 3.80 | - | |
| NO | 98700 | EKKERØY | 30.10 | 70.08 | 6 | 3.60 | - | |
| NO | 52170 | EKSINGEDAL | 6.15 | 60.80 | 450 | 8.50 | - | |
| NO | 770 | ELLEFSPLASS | 11.45 | 62.20 | 713 | 2.70 | - | |
| NO | 67450 | ENDALSVOLD | 10.45 | 62.82 | 606 | 4.80 | - | |
| NO | 4050 | ENEBAKK | 11.14 | 59.76 | 163 | 3.90 | - | |
| NO | 61820 | ERESFJORD | 8.11 | 62.66 | 14 | 5.10 | - | |
| NO | 87550 | ERVIK | 16.49 | 68.83 | 14 | 6.10 | - | |
| NO | 13700 | ESPEDALEN | 9.53 | 61.42 | 752 | 3.10 | - | |
| NO | 47500 | ETNE | 5.97 | 59.66 | 35 | 1.70 | - | |
| NO | 87790 | EVENSKJÆR | 16.58 | 68.58 | 7 | 4.60 | - | |
| NO | 50450 | FANA - STEND | 5.33 | 60.27 | 54 | 1.40 | - | |
| NO | 50460 | FANA FORSØKSSTASJON | 5.35 | 60.26 | 48 | 1.80 | - | |
| NO | 62150 | FANNEFJORDEN | 7.72 | 62.82 | 123 | 7.70 | - | |
| NO | 34400 | FARSJØ | 9.31 | 58.97 | 48 | 4.90 | - | |
| NO | 42250 | FEDEFJORDEN | 6.82 | 58.28 | 26 | 2.10 | - | |
| NO | 6460 | FINNSKOG I | 12.38 | 60.70 | 220 | 2.10 | - | |
| NO | 7900 | FINSTAD | 11.05 | 62.10 | 513 | 2.00 | - | |
| NO | 77500 | FIPLINGDAL | 13.67 | 65.42 | 381 | 8.90 | - | |
| NO | 45900 | FISTER | 6.07 | 59.18 | 1 | 1.20 | - | |
| NO | 48260 | FITJAR | 5.32 | 59.92 | 20 | 1.20 | - | |

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|---|---|---|---|---|---|---|---|---|
| NO | 55840 | FJÆRLAND - SKARESTAD | 6.77 | 61.44 | 10 | 5.70 | - | |
| NO | 37300 | FJALESTAD | 8.40 | 59.16 | 344 | 4.90 | - | |
| NO | 52110 | FJELLANGER | 6.07 | 60.80 | 456 | 10.10 | - | |
| NO | 36500 | FLATENFOSS | 8.68 | 58.63 | 130 | 5.70 | - | |
| NO | 42650 | FLEKKEFJORD | 6.65 | 58.28 | 5 | 2.40 | - | |
| NO | 50500 | FLESLAND | 5.23 | 60.29 | 48 | 1.50 | - | |
| NO | 6040 | FLISA | 12.02 | 60.62 | 184 | 2.60 | - | |
| NO | 11140 | FLØGSTAD | 11.15 | 60.22 | 194 | 3.80 | - | |
| NO | 21240 | FLUBERG - RØEN | 10.20 | 60.78 | 159 | 3.10 | - | |
| NO | 16610 | FOKSTUA II | 9.29 | 62.11 | 972 | 1.50 | - | |
| NO | 9100 | FOLLDAL | 10.05 | 62.13 | 709 | 1.10 | - | |
| NO | 19400 | FORNEBU | 10.62 | 59.89 | 10 | 2.40 | - | |
| NO | 55160 | FORTUN | 7.70 | 61.50 | 27 | 2.40 | - | |
| NO | 51100 | FOSSE I BERGSDAL | 5.89 | 60.58 | 405 | 7.00 | - | |
| NO | 54670 | FOSSEBAKKEN | 8.08 | 61.18 | 945 | 4.00 | - | |
| NO | 26160 | FOSSUM | 9.87 | 59.90 | 105 | 3.30 | - | |
| NO | 50560 | FREDRIKSBERG | 5.32 | 60.40 | 41 | 1.40 | - | |
| NO | 52750 | FRØYSET | 5.22 | 60.85 | 13 | 1.80 | - | |
| NO | 31500 | FRØYSTUL | 8.35 | 59.83 | 870 | 5.10 | - | |
| NO | 4730 | FURUSMO | 11.11 | 60.16 | 200 | 4.50 | - | |
| NO | 37750 | FYRESDAL | 8.04 | 59.17 | 315 | 3.50 | - | |
| NO | 37800 | FYRESDAL I LAUVDAL | 8.12 | 59.18 | 499 | 5.10 | - | |
| NO | 4780 | GARDERMOEN | 11.08 | 60.21 | 202 | 4.40 | - | |
| NO | 56800 | GAULAR | 5.80 | 61.33 | 79 | 2.40 | - | |
| NO | 87750 | GAUSVIK | 16.49 | 68.61 | 7 | 4.90 | - | |
| NO | 25640 | GEILO | 8.16 | 60.53 | 841 | 4.20 | - | |
| NO | 25590 | GEILO - GEILOSTØLEN | 8.20 | 60.52 | 810 | 4.20 | - | |
| NO | 15540 | GEILO/SJÅK | 8.45 | 61.87 | 378 | 1.10 | - | |
| NO | 60300 | GEIRANGER | 7.24 | 62.08 | 419 | 9.40 | - | |
| NO | 88900 | GIBOSTAD | 18.07 | 69.35 | 12 | 5.10 | - | |
| NO | 61150 | GJERMUNDNES | 7.17 | 62.62 | 49 | 3.50 | - | |
| NO | 36900 | GJEVDELI | 8.18 | 58.97 | 482 | 6.60 | - | |
| NO | 600 | GLØTVODA | 11.85 | 61.84 | 696 | 2.50 | - | |
| NO | 81750 | GRADDIS FJELLSTUE | 15.75 | 66.75 | 429 | 3.90 | - | |
| NO | 49940 | GRANVIN | 6.81 | 60.59 | 352 | 7.00 | - | |
| NO | 87940 | GRATANGEN III | 17.42 | 68.69 | 16 | 4.50 | - | |
| NO | 24600 | GRIMELI | 9.60 | 60.14 | 367 | 4.20 | - | |
| NO | 56160 | GRIMSOSEN/HØYANGER | 6.05 | 61.22 | 584 | 10.60 | - | |
| NO | 15910 | GROTLI | 7.63 | 62.02 | 906 | 3.40 | - | |
| NO | 14710 | GROV | 9.02 | 61.81 | 808 | 2.20 | - | |
| NO | 52220 | GULLBRÅ | 6.25 | 60.83 | 579 | 7.50 | - | |
| NO | 24770 | GULSVIK IV | 9.57 | 60.39 | 149 | 3.10 | - | |
| NO | 32100 | GVARV | 9.18 | 59.38 | 26 | 2.80 | - | |
| NO | 55550 | HAFSLO | 7.19 | 61.29 | 246 | 4.50 | - | |
| NO | 26670 | HAKAVIK | 9.95 | 59.63 | 21 | 4.50 | - | |
| NO | 18550 | HAKLOA | 10.67 | 60.11 | 389 | 4.60 | - | |
| NO | 64460 | HALSAFJORD II | 8.24 | 62.98 | 12 | 5.40 | - | |
| NO | 94260 | HAMMERFEST RADIO | 23.67 | 70.68 | 69 | 5.60 | - | |
| NO | 50150 | HATLESTRAND | 5.91 | 60.04 | 45 | 1.50 | - | |
| NO | 77650 | HATTFJELLDAL | 14.03 | 65.62 | 380 | 6.70 | - | |
| NO | 4710 | HAUG | 11.15 | 60.15 | 191 | 3.50 | - | |
| NO | 25730 | HAUGASTØL | 7.87 | 60.52 | 988 | 4.50 | - | |
| NO | 7010 | HAUGEDALSHØGDA | 13.09 | 61.16 | 240 | 3.80 | - | |
| NO | 47400 | HAUGESUND | 5.32 | 59.43 | 82 | 2.10 | - | |
| NO | 56960 | HAUKEDAL | 6.38 | 61.42 | 329 | 7.30 | - | |
| NO | 52600 | HAUKELAND | 5.57 | 60.82 | 196 | 4.50 | - | |

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|---|---|---|---|---|---|---|---|---|
| NO | 22730 | HEDAL I VALDRES | 9.73 | 60.62 | 480 | 3.50 | - | |
| NO | 27800 | HEDRUM | 9.97 | 59.20 | 31 | 3.90 | - | |
| NO | 18400 | HEFTYELØKKEN | 10.77 | 59.93 | 90 | 3.80 | - | |
| NO | 19350 | HEGGELIA | 10.48 | 60.08 | 520 | 4.90 | - | |
| NO | 420 | HEGGERISET - NORDSTRAND | 12.00 | 61.69 | 481 | 2.40 | - | |
| NO | 82160 | HEGGMOEN VED BODØ | 14.86 | 67.36 | 24 | 4.50 | - | |
| NO | 44520 | HELLAND | 6.01 | 58.76 | 280 | 1.50 | - | |
| NO | 43450 | HELLELAND | 6.17 | 58.54 | 94 | 1.80 | - | |
| NO | 91470 | HELLIGSKOGEN | 20.75 | 69.17 | 475 | 2.90 | - | |
| NO | 65220 | HEMNE | 9.00 | 63.26 | 133 | 4.10 | - | |
| NO | 25080 | HEMSEDAL | 8.57 | 60.87 | 608 | 2.80 | - | |
| NO | 52430 | HERDLA | 5.07 | 60.60 | 24 | 1.50 | - | |
| NO | 38450 | HEREFOSS | 8.35 | 58.52 | 85 | 4.30 | - | |
| NO | 26240 | HIÅSEN I SIGDAL | 9.51 | 60.01 | 402 | 4.70 | - | |
| NO | 65600 | HITRA | 8.74 | 63.62 | 23 | 2.10 | - | |
| NO | 11080 | HJÆRA | 11.21 | 60.28 | 178 | 3.50 | - | |
| NO | 31850 | HJARTDAL | 8.71 | 59.60 | 162 | 3.80 | - | |
| NO | 44160 | HOGNESTAD | 5.56 | 58.70 | 19 | 1.20 | - | |
| NO | 20250 | HOLE | 10.30 | 60.11 | 66 | 1.40 | - | |
| NO | 66250 | HØLONDA | 10.02 | 63.12 | 360 | 4.40 | - | |
| NO | 7750 | HORNSET | 11.13 | 61.80 | 278 | 2.20 | - | |
| NO | 66210 | HOSTON | 9.60 | 63.18 | 203 | 5.60 | - | |
| NO | 32900 | HØVDALSMO | 8.21 | 59.50 | 572 | 4.50 | - | |
| NO | 56520 | HOVLANDSDAL | 5.43 | 61.23 | 89 | 2.80 | - | |
| NO | 56120 | HØYANGSHÅLAND | 6.09 | 61.23 | 243 | 4.80 | - | |
| NO | 32780 | HØYDALEN I SOLUM | 9.27 | 59.14 | 113 | 5.10 | - | |
| NO | 72850 | HØYLANDET | 12.27 | 64.60 | 22 | 5.40 | - | |
| NO | 46850 | HUNDSEID I VIKEDAL | 6.00 | 59.57 | 159 | 4.30 | - | |
| NO | 62700 | HUSTADVATN | 7.25 | 62.91 | 80 | 3.50 | - | |
| NO | 1080 | HVALER | 11.05 | 59.04 | 17 | 2.10 | - | |
| NO | 49300 | HVAM | 11.38 | 60.10 | 162 | 2.40 | - | |
| NO | 40140 | HYLESTAD-BROKKE | 7.50 | 59.10 | 443 | 5.40 | - | |
| NO | 3780 | IGISI I HOBØL | 11.05 | 59.64 | 144 | 3.50 | - | |
| NO | 47900 | INDRE MATRE | 6.00 | 59.85 | 24 | 2.50 | - | |
| NO | 64700 | INNERDAL | 8.79 | 62.72 | 403 | 11.60 | - | |
| NO | 89650 | INNSET | 18.82 | 68.66 | 314 | 4.00 | - | |
| NO | 58400 | INNVIK | 6.63 | 61.85 | 32 | 2.50 | - | |
| NO | 17290 | JELØY RADIO | 10.59 | 59.44 | 12 | 2.80 | - | |
| NO | 11240 | JEPPEDALEN | 10.92 | 60.38 | 480 | 6.60 | - | |
| NO | 34120 | JOMFRULAND FYR | 9.60 | 58.87 | 12 | 3.50 | - | |
| NO | 12200 | JØNSBERG LANDBRUKSSKOLE | 11.21 | 60.75 | 218 | 2.20 | - | |
| NO | 49250 | JØSENDAL | 6.58 | 59.93 | 345 | 6.20 | - | |
| NO | 43090 | JØSSINGFJORD | 6.36 | 58.33 | 136 | 3.00 | - | |
| NO | 55450 | JOSTEDAL | 7.33 | 61.67 | 370 | 8.80 | - | |
| NO | 93500 | JOTKAJAVRE | 23.93 | 69.75 | 389 | 2.90 | - | |
| NO | 60600 | KALDHUSSETER | 7.43 | 62.15 | 580 | 5.90 | - | |
| NO | 19550 | KAMPSETER I HOLE | 10.45 | 60.03 | 406 | 5.60 | - | |
| NO | 85070 | KANSTADBON III | 15.88 | 68.50 | 9 | 8.00 | - | |
| NO | 77300 | KAPSKARMO | 13.40 | 65.42 | 134 | 6.60 | - | |
| NO | 97250 | KARASJOK | 25.51 | 69.47 | 129 | 1.50 | - | |
| NO | 18600 | KATNOSA | 10.60 | 60.15 | 464 | 4.90 | - | |
| NO | 97310 | KAUTOKEINO | 23.03 | 69.02 | 330 | 1.50 | - | |
| NO | 37650 | KILEGREND | 8.28 | 59.01 | 287 | 4.10 | - | |
| NO | 22360 | KILLINGSTRØMMEN | 10.09 | 60.35 | 157 | 3.90 | - | |
| NO | 49550 | KINSARVIK | 6.74 | 60.37 | 108 | 1.70 | - | |
| NO | 12550 | KISE | 10.80 | 60.77 | 128 | 2.40 | - | |

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|---|---|---|---|---|---|---|---|---|
| NO | 94890 | KISTRAND | 25.22 | 70.45 | 12 | 3.60 | - | |
| NO | 19100 | KJELSÅS I SØRKEDALEN | 10.60 | 60.04 | 319 | 5.40 | - | |
| NO | 82540 | KJERRINGØY | 14.87 | 67.53 | 12 | 1.70 | - | |
| NO | 39040 | KJEVIK | 8.07 | 58.20 | 12 | 3.90 | - | |
| NO | 70850 | KJØBLI | 12.48 | 64.16 | 195 | 3.50 | - | |
| NO | 83900 | KJØPSVIK | 16.37 | 68.10 | 38 | 3.00 | - | |
| NO | 68260 | KLÆBU | 10.47 | 63.30 | 143 | 3.90 | - | |
| NO | 86520 | KLEIVA I SORTLAND | 15.29 | 68.65 | 23 | 5.10 | - | |
| NO | 28360 | KONGSBERG | 9.65 | 59.67 | 171 | 3.80 | - | |
| NO | 98250 | KONGSFJORD | 29.05 | 70.60 | 160 | 4.70 | - | |
| NO | 41660 | KONSMO - EIKELAND | 7.32 | 58.25 | 260 | 4.90 | - | |
| NO | 69470 | KOPPERÅ | 11.84 | 63.40 | 294 | 5.80 | - | |
| NO | 78410 | KORGEN | 13.83 | 66.08 | 10 | 4.30 | - | |
| NO | 83500 | KRÅKMO | 15.99 | 67.79 | 76 | 3.10 | - | |
| NO | 39170 | KRISTIANSAND | 7.98 | 58.17 | 22 | 4.60 | - | |
| NO | 64260 | KRISTIANSUND | 7.75 | 63.12 | 48 | 2.10 | - | |
| NO | 78710 | KRUTÅ FJELLSTUE | 14.50 | 65.68 | 594 | 11.70 | - | |
| NO | 95950 | KUNES | 26.53 | 70.35 | 21 | 2.50 | - | |
| NO | 86260 | KVALNES | 13.97 | 68.35 | 10 | 1.80 | - | |
| NO | 50300 | KVAMSKOGEN | 5.91 | 60.39 | 408 | 9.40 | - | |
| NO | 69650 | KVARME | 10.77 | 63.58 | 25 | 2.80 | - | |
| NO | 91330 | KVESMENES - RYENG | 19.98 | 69.25 | 37 | 3.30 | - | |
| NO | 66850 | KVIKNE | 10.27 | 62.60 | 550 | 2.50 | - | |
| NO | 41880 | KVINESDAL | 7.05 | 58.30 | 343 | 4.60 | - | |
| NO | 38140 | LANDVIK | 8.52 | 58.33 | 6 | 3.90 | - | |
| NO | 4810 | LANGEMO | 11.22 | 60.15 | 205 | 4.30 | - | |
| NO | 900 | LANGEN | 11.85 | 62.43 | 685 | 2.70 | - | |
| NO | 90490 | LANGNES | 18.91 | 69.68 | 8 | 4.90 | - | |
| NO | 56320 | LAVIK | 5.55 | 61.11 | 31 | 2.50 | - | |
| NO | 96210 | LEBESBY | 27.02 | 70.57 | 8 | 2.80 | - | |
| NO | 55780 | LEIKANGER | 6.87 | 61.18 | 53 | 2.10 | - | |
| NO | 67150 | LEINSTRAND | 10.27 | 63.33 | 13 | 2.50 | - | |
| NO | 78250 | LEIRFJORD | 12.92 | 66.07 | 53 | 4.20 | - | |
| NO | 85540 | LEKNES I LOFOTEN | 13.61 | 68.14 | 11 | 3.30 | - | |
| NO | 61770 | LESJASKOG | 8.37 | 62.23 | 621 | 3.20 | - | |
| NO | 97080 | LEVAJOK-EVJEN | 26.42 | 69.90 | 112 | 1.60 | - | |
| NO | 11160 | LI | 11.18 | 60.18 | 216 | 4.60 | - | |
| NO | 75100 | LIAFOSS | 11.96 | 64.84 | 44 | 5.40 | - | |
| NO | 68330 | LIEN | 11.12 | 63.21 | 255 | 4.50 | - | |
| NO | 32200 | LIFJELL | 9.04 | 59.46 | 354 | 4.80 | - | |
| NO | 12640 | LILLEHAMMER | 10.48 | 61.08 | 271 | 3.30 | - | |
| NO | 74150 | LIMINGEN | 13.55 | 64.88 | 426 | 8.90 | - | |
| NO | 60 | LINNES | 12.49 | 61.56 | 564 | 3.60 | - | |
| NO | 47600 | LITLEDAL | 6.07 | 59.66 | 83 | 1.70 | - | |
| NO | 66190 | LØFTEN | 9.80 | 63.19 | 160 | 4.30 | - | |
| NO | 4720 | LØKEN | 11.05 | 60.13 | 175 | 4.70 | - | |
| NO | 23500 | LØKEN I VOLBU | 9.07 | 61.12 | 525 | 2.90 | - | |
| NO | 68270 | LØKSMYR | 10.44 | 63.24 | 165 | 4.30 | - | |
| NO | 15060 | LOM | 8.57 | 61.84 | 382 | 1.20 | - | |
| NO | 7550 | LØSSET | 11.38 | 61.37 | 262 | 3.50 | - | |
| NO | 67200 | LUNDAMO | 10.32 | 63.15 | 50 | 3.80 | - | |
| NO | 22600 | LUNDE I ÅDAL | 10.02 | 60.55 | 167 | 3.30 | - | |
| NO | 20520 | LUNNER | 10.58 | 60.29 | 372 | 4.20 | - | |
| NO | 80200 | LURØY | 13.19 | 66.39 | 115 | 3.30 | - | |
| NO | 55350 | LUSTER SANATORIUM | 7.42 | 61.43 | 484 | 6.70 | - | |
| NO | 11200 | LYBEKBRÅTEN | 11.08 | 60.25 | 197 | 5.10 | - | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO | 28800 | LYNGDAL I NUMEDAL | 9.53 | 59.91 | 288 | 3.80 | - | |
| NO | 91230 | LYNGSEIDE | 20.23 | 69.58 | 4 | 4.20 | - | |
| NO | 45350 | LYSEBOTN | 6.65 | 59.06 | 9 | 1.30 | - | |
| NO | 45200 | LYSEFJORDEN | 6.43 | 59.02 | 4 | 1.30 | - | |
| NO | 71800 | MÅMYR | 10.52 | 64.08 | 250 | 7.70 | - | |
| NO | 41110 | MANDAL | 7.46 | 58.05 | 138 | 4.30 | - | |
| NO | 61250 | MÅNDALEN I ROMSDAL | 7.35 | 62.50 | 200 | 5.80 | - | |
| NO | 18450 | MARIDALSOSET | 10.79 | 59.97 | 173 | 3.80 | - | |
| NO | 54600 | MARISTOVA | 8.04 | 61.11 | 806 | 3.60 | - | |
| NO | 52700 | MASFJORDEN | 5.63 | 60.92 | 357 | 5.60 | - | |
| NO | 52650 | MATRE | 5.58 | 60.88 | 18 | 2.10 | - | |
| NO | 43810 | MAUDAL | 6.37 | 58.77 | 311 | 4.30 | - | |
| NO | 5800 | MEDALEN | 12.36 | 60.39 | 293 | 2.90 | - | |
| NO | 12800 | MESNA - TYRIA | 10.68 | 61.11 | 520 | 4.50 | - | |
| NO | 39920 | MESTAD I ODDERNES | 7.89 | 58.22 | 151 | 5.30 | - | |
| NO | 90080 | MESTERVIK | 18.89 | 69.33 | 22 | 4.20 | - | |
| NO | 79480 | MO I RANA | 14.16 | 66.31 | 51 | 4.10 | - | |
| NO | 52300 | MODALEN | 5.93 | 60.83 | 104 | 4.50 | - | |
| NO | 26480 | MODUM | 9.90 | 59.88 | 58 | 3.50 | - | |
| NO | 89150 | MOEN I MÅLSELV | 18.62 | 69.13 | 11 | 5.30 | - | |
| NO | 31660 | MOGAN | 7.91 | 60.02 | 954 | 5.50 | - | |
| NO | 77190 | MOSJØEN - MOSAL | 13.20 | 65.85 | 4 | 3.40 | - | |
| NO | 17250 | MOSS | 10.67 | 59.43 | 31 | 3.10 | - | |
| NO | 31610 | MØSSTRAND | 8.07 | 59.85 | 948 | 4.70 | - | |
| NO | 38600 | MYKLAND | 8.28 | 58.63 | 245 | 4.80 | - | |
| NO | 30220 | MYKLE | 9.70 | 59.42 | 430 | 6.40 | - | |
| NO | 58320 | MYKLEBUST I BREIM | 6.62 | 61.71 | 315 | 3.00 | - | |
| NO | 53410 | MYRDAL IV | 7.12 | 60.74 | 855 | 9.20 | - | |
| NO | 72100 | NAMDALSEID | 11.20 | 64.25 | 86 | 4.80 | - | |
| NO | 74800 | NAMSVATN | 13.59 | 64.99 | 498 | 7.50 | - | |
| NO | 4760 | NANNESTAD PRESTEGÅRD | 11.02 | 60.22 | 199 | 4.70 | - | |
| NO | 84790 | NARVIK | 17.50 | 68.47 | 32 | 5.00 | - | |
| NO | 54610 | NEDRE SMEDDALSVATN | 8.02 | 61.13 | 914 | 4.90 | - | |
| NO | 47020 | NEDSTRAND | 5.80 | 59.35 | 10 | 1.50 | - | |
| NO | 79400 | NERDAL | 13.98 | 66.27 | 31 | 4.80 | - | |
| NO | 66580 | NERSKOGEN II | 9.57 | 62.77 | 803 | 4.50 | - | |
| NO | 12520 | NES | 10.96 | 60.79 | 205 | 2.20 | - | |
| NO | 24870 | NESBYEN | 9.13 | 60.57 | 165 | 1.90 | - | |
| NO | 22950 | NORD-AURDAL | 9.42 | 60.92 | 452 | 2.70 | - | |
| NO | 5350 | NORD-ODAL | 11.56 | 60.39 | 147 | 3.20 | - | |
| NO | 79650 | NORD RANA | 14.27 | 66.42 | 250 | 9.50 | - | |
| NO | 60400 | NORDDAL | 7.24 | 62.25 | 28 | 3.50 | - | |
| NO | 80400 | NORDFJORDNES | 13.48 | 66.57 | 14 | 3.90 | - | |
| NO | 73490 | NORDLI-BRATTVOLD | 13.72 | 64.45 | 462 | 4.00 | - | |
| NO | 7570 | NORDRE LØSSET | 11.37 | 61.39 | 256 | 3.10 | - | |
| NO | 5380 | NORDRE RASEN | 11.52 | 60.55 | 252 | 2.50 | - | |
| NO | 91760 | NORDREISA | 21.02 | 69.74 | 1 | 4.50 | - | |
| NO | 18160 | NORDSTRAND | 10.79 | 59.87 | 118 | 2.90 | - | |
| NO | 92350 | NORDSTRAUM | 21.88 | 69.83 | 6 | 3.10 | - | |
| NO | 30530 | NOTODDEN | 9.26 | 59.55 | 34 | 3.00 | - | |
| NO | 21360 | ODNES | 10.12 | 60.80 | 156 | 3.10 | - | |
| NO | 63100 | ØKSENDAL | 8.42 | 62.69 | 47 | 4.60 | - | |
| NO | 76100 | ØKSNINGØY | 12.37 | 65.12 | 17 | 2.60 | - | |
| NO | 13640 | OLSTAPPEN | 9.41 | 61.51 | 687 | 2.20 | - | |
| NO | 50130 | OMASTRAND | 5.98 | 60.22 | 2 | 2.10 | - | |
| NO | 58700 | OPPSTRYN | 7.23 | 61.93 | 201 | 7.00 | - | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO | 6550 | ØRBEKKEDALEN | 11.89 | 61.05 | 513 | 4.10 | - | |
| NO | 1950 | ØRJE | 11.65 | 59.48 | 123 | 3.10 | - | |
| NO | 71550 | ØRLAND III | 9.60 | 63.70 | 10 | 3.50 | - | |
| NO | 43540 | ØRSDALEN | 6.35 | 58.68 | 70 | 1.80 | - | |
| NO | 60800 | ØRSKOG | 6.82 | 62.48 | 4 | 4.90 | - | |
| NO | 10100 | OS | 11.02 | 62.52 | 788 | 2.50 | - | |
| NO | 63250 | OSBU | 8.47 | 62.52 | 801 | 6.50 | - | |
| NO | 7360 | OSDALEN - BEKKEN | 11.68 | 61.50 | 530 | 3.30 | - | |
| NO | 7030 | OSFALLET | 11.50 | 61.20 | 248 | 2.60 | - | |
| NO | 57110 | OSLAND VED STONGFJORDEN | 5.22 | 61.43 | 100 | 2.50 | - | |
| NO | 7250 | OSSJØEN | 11.75 | 61.25 | 450 | 3.20 | - | |
| NO | 69550 | ØSTÅS I HEGRA | 11.36 | 63.49 | 175 | 6.00 | - | |
| NO | 18050 | ØSTMARKA | 10.87 | 59.87 | 165 | 3.50 | - | |
| NO | 36100 | ØSTRE MOLAND | 8.75 | 58.48 | 40 | 5.60 | - | |
| NO | 11500 | ØSTRE TOTEN | 10.87 | 60.70 | 264 | 2.80 | - | |
| NO | 7720 | OTTÅSEN | 11.15 | 61.73 | 459 | 2.40 | - | |
| NO | 89800 | ØVERBYGD | 19.28 | 69.02 | 78 | 3.90 | - | |
| NO | 72700 | OVERHALLA | 11.93 | 64.50 | 15 | 5.20 | - | |
| NO | 68200 | ØVRE LEIRFOSS | 10.40 | 63.37 | 70 | 4.30 | - | |
| NO | 7800 | ØVRE RENDAL | 11.08 | 61.88 | 303 | 1.30 | - | |
| NO | 42950 | ØVRE SIRDAL | 6.92 | 58.95 | 582 | 6.60 | - | |
| NO | 54660 | ØVRE SMEDDALSVATN | 8.05 | 61.17 | 932 | 3.40 | - | |
| NO | 14690 | ØVRE TESSA | 8.96 | 61.82 | 746 | 2.20 | - | |
| NO | 51250 | ØVSTEDAL | 5.96 | 60.69 | 316 | 8.00 | - | |
| NO | 21870 | ØYEN | 9.57 | 61.00 | 489 | 3.30 | - | |
| NO | 29450 | ØYGARDSGREND | 8.93 | 60.32 | 737 | 3.60 | - | |
| NO | 50090 | ØYSTESE - MO | 6.18 | 60.38 | 68 | 4.90 | - | |
| NO | 99530 | PASVIK | 29.25 | 69.16 | 54 | 1.70 | - | |
| NO | 100 | PLASSEN | 12.51 | 61.14 | 333 | 3.20 | - | |
| NO | 94130 | PORSA | 23.63 | 70.40 | 38 | 5.10 | - | |
| NO | 34900 | POSTMYR I DRANGEDAL | 8.78 | 59.26 | 464 | 6.20 | - | |
| NO | 1130 | PRESTEBAKKE | 11.54 | 58.99 | 157 | 3.00 | - | |
| NO | 14550 | PRESTSTULEN | 9.01 | 61.92 | 823 | 3.80 | - | |
| NO | 91950 | PUNTASTILLA | 21.47 | 69.50 | 98 | 2.80 | - | |
| NO | 27300 | RAMNES | 10.25 | 59.36 | 44 | 4.80 | - | |
| NO | 4850 | RÅNÅSFOSS | 11.33 | 60.03 | 134 | 4.40 | - | |
| NO | 33250 | RAULAND | 8.04 | 59.70 | 715 | 4.50 | - | |
| NO | 36300 | REIERSØL | 8.62 | 58.47 | 42 | 4.80 | - | |
| NO | 51670 | REIMEGREND | 6.74 | 60.69 | 590 | 6.70 | - | |
| NO | 22840 | REINLI | 9.49 | 60.84 | 628 | 3.60 | - | |
| NO | 31940 | REISJÅ I TUDDAL | 8.70 | 59.79 | 686 | 5.00 | - | |
| NO | 66600 | RENNEBU | 9.83 | 62.87 | 360 | 4.90 | - | |
| NO | 94800 | REPVÅG | 25.62 | 70.77 | 3 | 3.80 | - | |
| NO | 64900 | RINDAL | 9.22 | 63.04 | 231 | 5.20 | - | |
| NO | 42520 | RISNES I FJOTLAND | 6.95 | 58.66 | 348 | 4.10 | - | |
| NO | 71350 | RISSA | 10.13 | 63.64 | 30 | 5.80 | - | |
| NO | 11350 | ROGNLIEN | 10.98 | 60.49 | 394 | 5.30 | - | |
| NO | 46450 | RØLDAL | 6.83 | 59.83 | 393 | 5.70 | - | |
| NO | 10400 | RØROS | 11.38 | 62.57 | 628 | 2.60 | - | |
| NO | 56280 | RØRVIKVATN VED VADHEIM | 5.75 | 61.22 | 350 | 6.70 | - | |
| NO | 67540 | RØSBJØRGEN | 10.52 | 62.99 | 330 | 5.90 | - | |
| NO | 48500 | ROSENDAL | 6.03 | 59.99 | 54 | 1.30 | - | |
| NO | 78850 | RØSSVATN - HEGGEMO | 14.27 | 65.91 | 399 | 7.70 | - | |
| NO | 27070 | ROVE | 10.30 | 59.49 | 79 | 4.50 | - | |
| NO | 4770 | RUD I BJØRKE | 11.02 | 60.25 | 199 | 4.20 | - | |
| NO | 6490 | RUNDBERGET | 12.09 | 60.82 | 347 | 3.50 | - | |

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|---|---|---|---|---|---|---|---|---|
| NO | 96800 | RUSTEFJELLBMA | 28.20 | 70.40 | 9 | 3.00 | - | |
| NO | 17150 | RYGGE | 10.79 | 59.38 | 40 | 2.80 | - | |
| NO | 32420 | SÆLI II | 8.42 | 59.55 | 614 | 4.80 | - | |
| NO | 66830 | SÆTER I KVIKNE | 10.25 | 62.62 | 550 | 2.60 | - | |
| NO | 89500 | SÆTERMOEN II | 18.34 | 68.86 | 114 | 5.60 | - | |
| NO | 5050 | SAGSTUA VED ÅRNES | 11.58 | 60.10 | 191 | 2.40 | - | |
| NO | 50350 | SAMNANGER | 5.89 | 60.46 | 370 | 8.60 | - | |
| NO | 46150 | SAND | 6.28 | 59.48 | 25 | 2.10 | - | |
| NO | 11130 | SANDBAKKEN | 11.18 | 60.22 | 198 | 3.80 | - | |
| NO | 19450 | SANDVIKA | 10.53 | 59.88 | 2 | 3.30 | - | |
| NO | 46610 | SAUDA | 6.36 | 59.65 | 5 | 3.80 | - | |
| NO | 71150 | SELAVATN | 10.87 | 63.99 | 296 | 8.60 | - | |
| NO | 68300 | SELBU | 11.12 | 63.20 | 197 | 4.10 | - | |
| NO | 11110 | SESSVOLL | 11.17 | 60.25 | 198 | 4.70 | - | |
| NO | 86450 | SIGERFJORD II | 15.60 | 68.62 | 9 | 4.60 | - | |
| NO | 93900 | SIHCAJAVRI | 23.53 | 68.75 | 382 | 1.80 | - | |
| NO | 58880 | SINDRE | 6.54 | 61.92 | 118 | 4.90 | - | |
| NO | 96970 | SIRBMA | 27.41 | 70.02 | 51 | 1.50 | - | |
| NO | 12940 | SJUSJØEN | 10.72 | 61.15 | 860 | 6.30 | - | |
| NO | 13670 | SKÅBU - STORSLÅEN | 9.38 | 61.52 | 890 | 3.00 | - | |
| NO | 94180 | SKAIDI | 24.51 | 70.43 | 62 | 4.00 | - | |
| NO | 76500 | SKÅLVÆR | 12.18 | 65.87 | 6 | 2.50 | - | |
| NO | 67030 | SKAUN | 10.05 | 63.25 | 127 | 4.10 | - | |
| NO | 4280 | SKEDSMO | 11.05 | 60.00 | 184 | 3.50 | - | |
| NO | 91350 | SKIBOTN | 20.30 | 69.38 | 46 | 1.60 | - | |
| NO | 70480 | SKJÆKFERFOSSEN | 12.02 | 63.84 | 110 | 5.60 | - | |
| NO | 15660 | SKJÅK | 8.17 | 61.90 | 432 | 1.40 | - | |
| NO | 49390 | SKJEGGEDAL II | 6.63 | 60.12 | 417 | 4.90 | - | |
| NO | 66070 | SKJENALDSFOSSEN | 9.75 | 63.30 | 84 | 6.00 | - | |
| NO | 84200 | SKJOMEN | 17.55 | 68.18 | 56 | 1.70 | - | |
| NO | 60830 | SKODJE | 6.68 | 62.50 | 26 | 4.60 | - | |
| NO | 95270 | SKOGANVARRE | 25.09 | 69.84 | 74 | 2.20 | - | |
| NO | 99500 | SKOGFOSS | 29.69 | 69.37 | 55 | 1.80 | - | |
| NO | 42890 | SKREÅDALEN | 6.72 | 58.82 | 474 | 6.90 | - | |
| NO | 85380 | SKROVA FYR | 14.65 | 68.15 | 13 | 3.60 | - | |
| NO | 47190 | SKUDENES | 5.27 | 59.15 | 2 | 1.40 | - | |
| NO | 85950 | SKUMVÆR FYR | 11.88 | 67.42 | 18 | 1.20 | - | |
| NO | 96400 | SLETNES FYR | 28.22 | 71.08 | 8 | 3.20 | - | |
| NO | 54800 | SLETTERUST I ÅRDAL | 8.05 | 61.27 | 1058 | 4.60 | - | |
| NO | 71370 | SLIPER | 10.18 | 63.64 | 158 | 6.20 | - | |
| NO | 54640 | SLUTEBRUI | 8.02 | 61.17 | 932 | 4.00 | - | |
| NO | 18850 | SMESTAD II | 10.68 | 59.93 | 53 | 2.50 | - | |
| NO | 85150 | SNEISA I LØDDINGEN | 15.75 | 68.40 | 7 | 5.60 | - | |
| NO | 55730 | SOGNDAL-SELSENG | 6.93 | 61.33 | 421 | 7.40 | - | |
| NO | 66110 | SOGNLI | 9.65 | 63.33 | 309 | 9.70 | - | |
| NO | 24210 | SOKNA | 9.93 | 60.24 | 140 | 3.50 | - | |
| NO | 44560 | SOLA | 5.64 | 58.88 | 7 | 1.20 | - | |
| NO | 57640 | SOLHEIM | 5.72 | 61.63 | 177 | 4.60 | - | |
| NO | 8710 | SØR-NESSET | 10.15 | 61.89 | 739 | 2.40 | - | |
| NO | 83870 | SØRFJORDVATN | 16.67 | 68.07 | 61 | 4.80 | - | |
| NO | 82850 | SØRFOLD | 15.48 | 67.53 | 21 | 3.60 | - | |
| NO | 19050 | SØRKEDALEN | 10.63 | 60.00 | 170 | 4.40 | - | |
| NO | 73250 | SØRLI | 13.77 | 64.24 | 370 | 4.30 | - | |
| NO | 65270 | SØVATNET | 9.35 | 63.23 | 306 | 6.90 | - | |
| NO | 44480 | SØYLAND | 5.99 | 58.68 | 263 | 2.50 | - | |
| NO | 13300 | SPRANGRUDLIEN | 10.30 | 61.47 | 755 | 2.40 | - | |

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|---|---|---|---|---|---|---|---|---|
| NO | 24960 | STAKE | 8.95 | 60.72 | 542 | 2.40 | - | |
| NO | 12090 | STAUR FORSØKSGÅRD | 11.10 | 60.73 | 153 | 2.30 | - | |
| NO | 83300 | STEIGEN | 15.12 | 67.92 | 26 | 2.60 | - | |
| NO | 57080 | STONGFJORDEN | 5.17 | 61.43 | 3 | 2.10 | - | |
| NO | 67260 | STØREN | 10.28 | 63.03 | 82 | 3.80 | - | |
| NO | 92450 | STORENG | 22.03 | 70.00 | 33 | 4.50 | - | |
| NO | 19200 | STORFLÅTAN I NORDMARKA | 10.48 | 60.13 | 462 | 4.70 | - | |
| NO | 90200 | STORSTEINNES I BALSFJORD | 19.23 | 69.25 | 27 | 5.10 | - | |
| NO | 19600 | STOVI | 10.46 | 59.91 | 117 | 4.50 | - | |
| NO | 60200 | STRANDA - HELSEM | 6.80 | 62.30 | 84 | 3.90 | - | |
| NO | 16720 | STRANDHEIM | 9.05 | 62.08 | 532 | 1.60 | - | |
| NO | 31250 | STRENGEN | 8.38 | 60.00 | 1085 | 3.10 | - | |
| NO | 1650 | STRØMFOSS SLUSE | 11.66 | 59.30 | 113 | 3.00 | - | |
| NO | 20120 | STUBDAL | 10.40 | 60.12 | 442 | 3.90 | - | |
| NO | 68800 | STUGUDAL | 11.88 | 62.90 | 615 | 4.30 | - | |
| NO | 46300 | SULDALSVATN | 6.81 | 59.59 | 333 | 3.90 | - | |
| NO | 81900 | SULITJELMA | 16.07 | 67.13 | 142 | 6.70 | - | |
| NO | 70360 | SULSTUA | 12.02 | 63.67 | 251 | 3.50 | - | |
| NO | 80850 | SUNDSFJORD | 14.16 | 66.97 | 11 | 4.60 | - | |
| NO | 63500 | SUNNDAL | 9.10 | 62.55 | 195 | 5.20 | - | |
| NO | 63420 | SUNNDALSRØRA | 8.56 | 62.68 | 6 | 5.30 | - | |
| NO | 93300 | SUOLOVUOPMI | 23.53 | 69.59 | 374 | 2.90 | - | |
| NO | 64800 | SURNADAL | 9.01 | 63.01 | 39 | 5.40 | - | |
| NO | 77850 | SUSENDAL | 14.26 | 65.36 | 498 | 5.50 | - | |
| NO | 30570 | SVÆLGFOSS | 9.26 | 59.58 | 96 | 3.90 | - | |
| NO | 16790 | SVANBORG | 8.92 | 62.11 | 551 | 1.20 | - | |
| NO | 3500 | SVARVERUD I EIDSBERG | 11.52 | 59.53 | 182 | 3.80 | - | |
| NO | 57800 | SVELGEN | 5.28 | 61.77 | 16 | 2.80 | - | |
| NO | 44800 | SVILAND | 5.92 | 58.82 | 230 | 1.40 | - | |
| NO | 60500 | TAFJORD | 7.42 | 62.23 | 15 | 3.50 | - | |
| NO | 290 | TÅGMYRA | 12.07 | 61.42 | 557 | 3.40 | - | |
| NO | 52860 | TAKLE | 5.39 | 61.03 | 38 | 2.10 | - | |
| NO | 31100 | TESSUNGDALEN | 8.67 | 60.13 | 775 | 3.90 | - | |
| NO | 30800 | TINNOSET | 9.02 | 59.73 | 200 | 3.40 | - | |
| NO | 33330 | TJØRNDALEN | 7.65 | 59.78 | 873 | 6.10 | - | |
| NO | 16240 | TOLSTADÅSEN | 9.39 | 61.82 | 656 | 1.90 | - | |
| NO | 27470 | TORP | 10.27 | 59.20 | 90 | 3.80 | - | |
| NO | 38800 | TOVDAL | 8.23 | 58.79 | 227 | 3.90 | - | |
| NO | 36970 | TOVSLID | 7.98 | 59.06 | 599 | 6.20 | - | |
| NO | 88350 | TRANØYBOTN | 17.53 | 69.20 | 13 | 8.80 | - | |
| NO | 50900 | TRENGEREID | 5.65 | 60.43 | 366 | 5.20 | - | |
| NO | 3930 | TRØGSTAD | 11.40 | 59.66 | 158 | 3.30 | - | |
| NO | 90450 | TROMSØ | 18.93 | 69.65 | 100 | 7.00 | - | |
| NO | 200 | TRYSIL | 12.25 | 61.33 | 356 | 3.20 | - | |
| NO | 18950 | TRYVASSHØGDA | 10.69 | 59.99 | 514 | 6.30 | - | |
| NO | 31900 | TUDDAL | 8.81 | 59.75 | 464 | 3.80 | - | |
| NO | 800 | TUFSINGDAL | 11.78 | 62.25 | 670 | 2.80 | - | |
| NO | 29600 | TUNNHOVD | 8.75 | 60.46 | 870 | 2.70 | - | |
| NO | 73800 | TUNNSJØ | 13.66 | 64.68 | 376 | 6.70 | - | |
| NO | 78610 | TUSTERVATNET II | 13.91 | 65.83 | 439 | 9.60 | - | |
| NO | 37230 | TVEITSUND | 8.52 | 59.03 | 252 | 4.50 | - | |
| NO | 68170 | TYHOLT | 10.43 | 63.42 | 113 | 3.30 | - | |
| NO | 9600 | TYNSET | 10.75 | 62.30 | 483 | 1.10 | - | |
| NO | 50250 | TYSSE | 5.77 | 60.37 | 41 | 3.00 | - | |
| NO | 49350 | TYSSEDAL | 6.56 | 60.12 | 32 | 2.10 | - | |
| NO | 4740 | UKKESTAD | 11.05 | 60.17 | 187 | 4.30 | - | |

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|---|---|---|---|---|---|---|---|---|
| NO | 46050 | ULLA | 6.53 | 59.38 | 200 | 3.50 | - | |
| NO | 49490 | ULLENSVANG FORSØKSGÅRD | 6.65 | 60.32 | 12 | 1.80 | - | |
| NO | 59200 | ULVESUND | 5.14 | 61.97 | 1 | 2.50 | - | |
| NO | 79250 | UMBUKTA FJELLSTUE | 14.60 | 66.17 | 532 | 8.80 | - | |
| NO | 70820 | UTGÅRD | 11.74 | 64.12 | 50 | 3.80 | - | |
| NO | 29310 | UVDAL | 8.78 | 60.27 | 486 | 2.60 | - | |
| NO | 14580 | VÅGÅMO | 9.09 | 61.87 | 371 | 1.10 | - | |
| NO | 33900 | VÅGSLI I VINJE | 7.37 | 59.77 | 821 | 7.50 | - | |
| NO | 730 | VALDALEN | 12.17 | 62.08 | 794 | 4.00 | - | |
| NO | 97150 | VALJOK | 25.93 | 69.69 | 132 | 2.50 | - | |
| NO | 60650 | VALLDAL - LINGE | 7.23 | 62.30 | 50 | 4.80 | - | |
| NO | 71650 | VALLERSUND | 9.73 | 63.85 | 4 | 1.80 | - | |
| NO | 23720 | VANG I VALDRES | 8.58 | 61.13 | 477 | 2.40 | - | |
| NO | 53100 | VANGSNES | 6.65 | 61.17 | 51 | 2.50 | - | |
| NO | 54730 | VARDEN - FILLEFJELL | 8.15 | 61.18 | 1012 | 3.50 | - | |
| NO | 98550 | VARDØ | 31.08 | 70.37 | 14 | 2.90 | - | |
| NO | 25240 | VATS | 8.32 | 60.69 | 800 | 3.80 | - | |
| NO | 10900 | VAULDALEN | 12.03 | 62.64 | 830 | 4.80 | - | |
| NO | 12600 | VEA | 10.68 | 60.95 | 161 | 2.40 | - | |
| NO | 34500 | VEFALL | 9.22 | 59.00 | 67 | 4.90 | - | |
| NO | 28920 | VEGGLI | 9.15 | 60.05 | 243 | 3.10 | - | |
| NO | 99330 | VEINES I NEIDEN | 29.25 | 69.70 | 44 | 2.40 | - | |
| NO | 61550 | VERMA | 8.05 | 62.34 | 247 | 5.80 | - | |
| NO | 99020 | VESTERELV | 28.58 | 70.15 | 14 | 2.00 | - | |
| NO | 13100 | VESTRE GAUSTAD | 9.77 | 61.34 | 580 | 2.80 | - | |
| NO | 54900 | VETTI | 7.01 | 61.00 | 329 | 3.80 | - | |
| NO | 6630 | VIER | 11.60 | 60.92 | 221 | 2.90 | - | |
| NO | 53070 | VIK I SOGN III | 6.59 | 61.07 | 65 | 2.10 | - | |
| NO | 5650 | VINGER | 12.03 | 60.22 | 175 | 2.50 | - | |
| NO | 65100 | VINJEØRA | 8.99 | 63.21 | 9 | 4.10 | - | |
| NO | 33560 | VINJESVINGEN | 7.81 | 59.63 | 471 | 6.10 | - | |
| NO | 13540 | VINSTRA - SOLSTAD | 9.78 | 61.58 | 249 | 1.60 | - | |
| NO | 49700 | VIVELIEN I EIDSFJORD | 7.15 | 60.35 | 876 | 4.90 | - | |
| NO | 28120 | YTRE SANDVÆR | 9.95 | 59.53 | 430 | 5.80 | - | |
| NO | 56400 | YTRE SOLUND | 4.68 | 61.00 | 3 | 1.70 | - | |
| NO | 69950 | YTTERØY | 11.20 | 63.80 | 76 | 3.10 | - | |
| PT | P174 | ALCACER DO SAL | -8.52 | 38.38 | 51 | 0.00 | 54 | |
| PT | P126 | ALCOBAÇA/E.FRUTICUL | -8.97 | 39.52 | 38 | 0.00 | 16 | |
| PT | P212 | ALVEGA | -8.05 | 39.47 | 51 | 0.20 | 42 | * |
| PT | P250 | AMARELEJA | -7.22 | 38.22 | 192 | 0.00 | 30 | |
| PT | P102 | AVEIRO | -8.67 | 40.63 | 5 | 0.00 | 14 | |
| PT | P223 | BENAVILA | -7.87 | 39.10 | 150 | 0.00 | 28 | |
| PT | P061 | BIGORNE | -7.88 | 41.00 | 975 | 0.75 | 36 | * |
| PT | P045 | BOA NOVA | -8.72 | 41.22 | 17 | 0.00 | 23 | |
| PT | P023 | BRAGA/POSTO AGRARIO | -8.40 | 41.55 | 190 | 0.05 | 54 | * |
| PT | P575 | BRAGANÇA | -6.73 | 41.80 | 690 | 0.38 | 54 | |
| PT | P530 | CABO CARVOEIRO | -9.40 | 39.35 | 32 | 0.00 | 54 | |
| PT | P150 | CABO DA ROCA | -9.50 | 38.78 | 142 | 0.00 | 46 | |
| PT | P157 | CABO RUIVO | -9.10 | 38.75 | 16 | 0.00 | 13 | |
| PT | P019 | CABRIL/S.LOURENÇO | -8.02 | 41.72 | 585 | 0.18 | 13 | |
| PT | P044 | CARRAZEDA DE ANSIAENS | -7.30 | 41.23 | 715 | 0.23 | 14 | * |
| PT | P205 | CASTELO BRANCO | -7.48 | 39.82 | 380 | 0.05 | 38 | |
| PT | P148 | COLARES/SARRAZOLA | -9.45 | 38.80 | 55 | 0.00 | 16 | |
| PT | P144 | CORUCHE | -8.53 | 38.95 | 25 | 0.00 | 11 | |
| PT | P139 | DOIS PORTOS | -9.18 | 39.03 | 110 | 0.00 | 46 | |
| PT | P208 | ENVENDOS | -7.88 | 39.57 | 260 | 0.00 | 7 | |

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|---|---|---|---|---|---|---|---|---|
| PT | P163 | ESTORIL | -9.38 | 38.70 | 20 | 0.00 | 7 | |
| PT | P244 | EVORA/CURRAIS | -7.78 | 38.52 | 230 | 0.00 | 42 | |
| PT | P554 | FARO/AEROPORTO | -7.97 | 37.02 | 8 | 0.00 | 29 | |
| PT | P070 | FIGUEIRA DE CASTELO | -6.90 | 40.87 | 635 | 0.26 | 43 | * |
| PT | P134 | FONTE BOA | -8.73 | 39.20 | 73 | 0.00 | 32 | |
| PT | P098 | FUNDAO | -7.50 | 40.13 | 495 | 0.24 | 35 | |
| PT | P177 | GRANDOLA | -8.57 | 38.17 | 94 | 0.00 | 10 | |
| PT | P082 | GUARDA | -7.27 | 40.53 | 1019 | 0.34 | 51 | * |
| PT | P201 | LADOEIRO/RIBEIRO DO F. | -7.25 | 39.87 | 180 | 0.30 | 13 | |
| PT | P007 | LAMAS DE MOURO | -8.18 | 42.03 | 870 | 0.56 | 10 | |
| PT | P166 | LAVRADIO | -9.05 | 38.68 | 6 | 0.00 | 4 | |
| PT | P579 | LISBOA/GAGO COUTINHO | -9.13 | 38.77 | 104 | 0.00 | 13 | |
| PT | P536 | LISBOA/PORTELA | -9.13 | 38.78 | 103 | 0.00 | 7 | |
| PT | P162 | LISBOA/TAPADA AJUDA | -9.18 | 38.70 | 37 | 0.00 | 47 | |
| PT | P095 | LOUSA/BOAVISTA | -8.17 | 40.13 | 401 | 0.28 | 18 | |
| PT | P057 | LUZIM | -8.25 | 41.15 | 250 | 0.00 | 13 | |
| PT | P088 | MANTEIGAS | -7.53 | 40.40 | 815 | 1.25 | 15 | |
| PT | P215 | MARVAO | -7.38 | 39.40 | 865 | 1.27 | 28 | |
| PT | P035 | MIRANDA DO DOURO | -6.28 | 41.52 | 693 | 0.16 | 52 | * |
| PT | P032 | MIRANDELA | -7.20 | 41.52 | 250 | 0.07 | 53 | * |
| PT | P037 | MOGADOURO | -6.73 | 41.33 | 644 | 0.34 | 14 | * |
| PT | P064 | MOIMENTA DA BEIRA | -7.63 | 40.98 | 670 | 0.24 | 28 | |
| PT | P192 | MONCHIQUE | -8.55 | 37.32 | 465 | 0.00 | 16 | |
| PT | P011 | MONTALEGRE | -7.78 | 41.82 | 1005 | 0.74 | 54 | |
| PT | P178 | MONTE VELHO | -8.80 | 38.07 | 17 | 0.00 | 11 | |
| PT | P534 | MONTIJO/BASE AEREA | -9.05 | 38.70 | 14 | 0.00 | 28 | |
| PT | P226 | MORA | -8.17 | 38.93 | 110 | 0.00 | 38 | |
| PT | P085 | NELAS | -7.85 | 40.52 | 440 | 0.26 | 34 | |
| PT | P539 | OTA/BASE AEREA | -8.98 | 39.12 | 40 | 0.00 | 38 | |
| PT | P043 | PACOS DE FERREIRA | -8.38 | 41.27 | 320 | 0.14 | 39 | |
| PT | P568 | PENHAS DOURADAS | -7.55 | 40.42 | 1380 | 2.69 | 54 | |
| PT | P055 | PINHAO/SANTA BARBARA | -7.55 | 41.17 | 130 | 0.08 | 54 | |
| PT | P175 | PINHEIRO DA CRUZ | -8.73 | 38.27 | 52 | 0.00 | 11 | |
| PT | P014 | PONTE DE LIMA/ARCOZELO | -8.58 | 41.75 | 50 | 0.08 | 14 | |
| PT | P571 | PORTALEGRE | -7.42 | 39.28 | 597 | 0.23 | 54 | * |
| PT | P546 | PORTO/SERRA PILAR | -8.60 | 41.13 | 93 | 0.00 | 54 | |
| PT | P279 | PRAIA DA ROCHA | -8.53 | 37.12 | 19 | 0.00 | 53 | |
| PT | P052 | REGUA | -7.80 | 41.17 | 65 | 0.04 | 53 | * |
| PT | P121 | S.PEDRO DE MUEL | -9.03 | 39.75 | 40 | 0.00 | 29 | |
| PT | P155 | SACAVEM | -9.08 | 38.82 | 9 | 0.00 | 19 | |
| PT | P538 | SAGRES | -8.95 | 36.98 | 40 | 0.00 | 41 | |
| PT | P132 | SANTAREM/ESCOLA AGRI. | -8.70 | 39.25 | 54 | 0.00 | 51 | |
| PT | P028 | SANTO TIRSO | -8.47 | 41.35 | 28 | 0.00 | 41 | |
| PT | P160 | SASSOEIROS/OERIAS | -9.32 | 38.70 | 50 | 0.00 | 24 | |
| PT | P073 | SERRA DA MUNA | -7.88 | 40.72 | 628 | 0.09 | 35 | |
| PT | P170 | SETUBAL | -8.90 | 38.52 | 35 | 0.00 | 44 | |
| PT | P171 | SETUBAL/SETENAVE | -8.82 | 38.48 | 4 | 0.00 | 20 | |
| PT | P542 | SINES | -8.88 | 37.95 | 15 | 0.00 | 24 | |
| PT | P532 | SINTRA/GRANJA/BASE | -9.33 | 38.83 | 134 | 0.00 | 33 | |
| PT | P282 | TAVIRA | -7.65 | 37.12 | 25 | 0.00 | 52 | |
| PT | P273 | TAVIRA/CONCEIÇAO | -7.60 | 37.17 | 80 | 0.00 | 21 | |
| PT | P225 | TERMAS/MONFORTINHO | -6.90 | 39.97 | 322 | 0.16 | 9 | |
| PT | P195 | TUNES | -8.25 | 37.17 | 56 | 0.00 | 15 | |
| PT | P247 | VIANA DO ALENTEJO | -8.05 | 38.33 | 202 | 0.00 | 54 | |
| PT | P196 | VILA DO BISPO | -8.88 | 37.08 | 115 | 0.00 | 49 | |
| PT | P566 | VILA REAL | -7.73 | 41.32 | 481 | 0.25 | 50 | |

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|---|---|---|---|---|---|---|---|---|
| PT | P136 | VIMEIRO | -9.33 | 39.18 | 10 | 0.00 | 29 | |
| PT | P075 | VISEU | -7.90 | 40.67 | 443 | 0.37 | 51 | * |
| PT | P188 | ZAMBUJEIRA | -8.75 | 37.50 | 106 | 0.00 | 25 | |
| SE | 17 | BJURÅKER | 16.58 | 61.85 | 66 | 2.60 | 1905/66 | |
| SE | 31 | BORÅS | 12.95 | 57.77 | 140 | 1.70 | 1905/90 | |
| SE | 21 | FALUN | 15.63 | 60.62 | 122 | 2.20 | 1905/90 | |
| SE | 12 | GÄDDEDE | 14.13 | 64.50 | 318 | 3.40 | 1905/90 | |
| SE | 4 | GÄLLIVARE | 20.67 | 67.13 | 358 | 3.20 | 1905/57 | |
| SE | 18 | GÄVLE | 17.13 | 60.67 | 11 | 2.40 | 1905/90 | |
| SE | 34 | GÖTEBORG | 11.97 | 57.70 | 31 | 1.10 | 1905/90 | |
| SE | 35 | HALMSTAD | 12.85 | 56.67 | 4 | 1.10 | 1905/90 | |
| SE | 7 | HAPARANDA | 24.15 | 65.83 | 7 | 2.80 | 1905/90 | |
| SE | 15 | HÄRNÖSAND | 17.95 | 62.63 | 8 | 3.20 | 1905/90 | |
| SE | 6 | JOKKMOKK | 19.85 | 66.60 | 257 | 3.00 | 1905/90 | |
| SE | 32 | JÖNKÖPING | 14.17 | 57.78 | 97 | 1.80 | 1905/90 | |
| SE | 1 | KARESUANDO | 22.50 | 68.45 | 327 | 2.40 | 1905/90 | |
| SE | 37 | KARLSHAMN | 14.87 | 56.00 | 7 | 1.40 | 1905/90 | |
| SE | 22 | KARLSTAD | 13.47 | 59.37 | 47 | 1.90 | 1905/90 | |
| SE | 3 | KIRUNA | 20.23 | 67.85 | 505 | 3.20 | 1905/64 | |
| SE | 38 | KRISTIANSTAD | 14.15 | 56.03 | 6 | 1.30 | 1905/90 | |
| SE | 5 | KVIKKJOKK | 17.73 | 66.93 | 337 | 3.60 | 1905/90 | |
| SE | 28 | LINKÖPING | 15.63 | 58.42 | 96 | 1.80 | 1905/90 | |
| SE | 39 | LUND | 13.20 | 55.72 | 73 | 1.20 | 1905/90 | |
| SE | 20 | MALUNG | 13.72 | 60.68 | 308 | 2.70 | 1905/90 | |
| SE | 27 | NYKÖPING (STAD) | 17.00 | 58.77 | 24 | 2.10 | 1905/61 | |
| SE | 23 | ÖREBRO | 15.22 | 59.25 | 51 | 1.90 | 1905/90 | |
| SE | 14 | ÖSTERSUND | 14.67 | 63.17 | 330 | 2.50 | 1905/90 | |
| SE | 8 | PITEÅ | 21.47 | 65.32 | 6 | 3.00 | 1905/90 | |
| SE | 2 | RIKSGRÄNSEN | 18.13 | 68.43 | 508 | 5.60 | 1905/73 | |
| SE | 19 | SÄRNA | 13.12 | 61.68 | 458 | 2.90 | 1905/90 | |
| SE | 29 | SKARA | 13.45 | 58.40 | 117 | 1.50 | 1905/90 | |
| SE | 10 | STENSELE | 17.17 | 65.07 | 330 | 2.80 | 1905/90 | |
| SE | 26 | STOCKHOLM | 18.07 | 59.35 | 44 | 1.80 | 1905/90 | |
| SE | 13 | STORLIEN | 12.10 | 63.32 | 595 | 4.80 | 1905/64 | |
| SE | 16 | SVEG | 14.42 | 62.03 | 360 | 2.70 | 1905/90 | |
| SE | 9 | TÄRNABY | 15.30 | 65.68 | 447 | 4.50 | 1905/72 | |
| SE | 11 | UMEÅ | 20.28 | 63.83 | 11 | 2.80 | 1905/90 | |
| SE | 25 | UPPSALA | 17.63 | 59.87 | 24 | 1.70 | 1905/90 | |
| SE | 30 | VÄNERSBORG | 12.33 | 58.38 | 49 | 1.60 | 1905/90 | |
| SE | 24 | VÄSTERÅS | 16.55 | 59.62 | 18 | 1.60 | 1905/90 | |
| SE | 33 | VÄSTERVIK | 16.63 | 57.78 | 9 | 2.00 | 1905/90 | |
| SE | 36 | VÄXJÖ | 14.82 | 56.88 | 168 | 1.40 | 1905/90 | |
| SE | 40 | VISBY | 18.30 | 57.65 | 28 | 1.80 | 1905/90 | |
| SP | 7150 | ABARAN SIERRA DE LA PILA | -1.32 | 38.25 | 300 | 0.15 | 38 | |
| SP | 9621 | ADRALL | 1.39 | 42.32 | 642 | 0.70 | 62 | |
| SP | 4560 | ALAJAR | -6.66 | 37.87 | 577 | 0.19 | 32 | |
| SP | 2257 | ALARDELREY | -4.31 | 42.66 | 851 | 0.76 | 59 | |
| SP | 4464 | ALBURQUERQUE | -7.00 | 39.22 | 500 | 0.15 | 47 | |
| SP | 3169 | ALCALA HENARES 'CANALEJA' | -3.30 | 40.51 | 613 | 0.26 | 36 | |
| SP | 9573 | ALCAÑIZ-AYUNTAMIENTO | -0.13 | 41.05 | 325 | 0.58 | 31 | |
| SP | 4064 | ALCAZARDESAN JUAN | -3.21 | 39.39 | 664 | 0.37 | 56 | |
| SP | 8059 | ALCOY | -0.47 | 38.70 | 562 | 0.74 | 34 | |
| SP | 4411 | ALCUESCAR | -6.22 | 39.18 | 488 | 0.13 | 56 | |
| SP | 3455 | ALDEACENTENERA 'CANTAMPLINA' | -5.67 | 39.57 | 520 | 0.05 | 34 | |
| SP | 2440 | ALDEADEL REY NIÑO'DEHESA GU-TE | -4.70 | 40.57 | 1160 | 0.62 | 62 | * |
| SP | 7219 | ALHAMA HUERTA ESPUÑA | -1.52 | 37.85 | 760 | 0.39 | 64 | * |

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|---|---|---|---|---|---|---|---|---|
| SP | 9279 | ALLOZ'EMBALSE' | -1.94 | 42.70 | 475 | 0.40 | 33 | |
| SP | 5733 | ALMADENDELA PLATA 'LASNAVAS' | -6.07 | 37.79 | 450 | 0.12 | 45 | |
| SP | 4300 | ALMADEN'MINAS' | -4.84 | 38.77 | 535 | 0.19 | 73 | |
| SP | 2045 | ALMAZAN | -2.52 | 41.68 | 938 | 0.38 | 63 | |
| SP | 4563 | ALMONASTERLA REAL | -6.79 | 37.87 | 610 | 0.11 | 45 | * |
| SP | 9491 | ALMUDEVAR-GRANJA CHE | -0.59 | 42.02 | 390 | 0.27 | 59 | * |
| SP | 9269 | ALSASUA | -2.18 | 42.89 | 525 | 1.03 | 69 | |
| SP | 1060 | AMURRIO'INSTITUTO' | -3.00 | 43.05 | 219 | 0.74 | 43 | |
| SP | 4558 | ARACENA | -6.56 | 37.89 | 731 | 0.09 | 65 | |
| SP | 1083 | ARCENTALES | -3.22 | 43.22 | 300 | 1.03 | 31 | |
| SP | 4016 | ARGAMASILLADE ALBA | -3.09 | 39.12 | 671 | 0.21 | 59 | |
| SP | 1267 | ARGANZA | -6.49 | 43.26 | 320 | 0.72 | 30 | |
| SP | 7059 | ARGUELLITE | -2.43 | 38.34 | 980 | 0.53 | 60 | |
| SP | 4524 | AROCHE | -6.95 | 37.94 | 421 | 0.04 | 48 | * |
| SP | 1021 | ARTICUTZA | -1.79 | 43.21 | 305 | 1.27 | 47 | |
| SP | 9215 | ARTIEDA | -0.99 | 42.60 | 510 | 0.66 | 58 | |
| SP | 9232 | ARTIEDA | -1.32 | 42.71 | 450 | 0.78 | 34 | |
| SP | 9181 | AYEGUIIRACHE | -2.04 | 42.65 | 520 | 0.54 | 49 | |
| SP | 397 | BAGET | 2.48 | 42.32 | 541 | 0.42 | 30 | |
| SP | 9210E | BAILOPUENTE LA REINA | -0.80 | 42.55 | 595 | 0.66 | 31 | |
| SP | 9715 | BALAGUER'INSTITUTO' | 0.82 | 41.78 | 212 | 0.26 | 33 | |
| SP | 203 | BALENYA | 2.26 | 41.85 | 570 | 0.88 | 65 | |
| SP | 0200E | BARCELONAFABRA | 2.12 | 41.42 | 420 | 0.06 | 63 | |
| SP | 3439 | BARRADO | -5.88 | 40.08 | 796 | 0.54 | 58 | |
| SP | 72 | BEGAS | 1.93 | 41.33 | 360 | 0.41 | 39 | * |
| SP | 8286 | BENIATJAR LES PLANISES | -0.42 | 38.84 | 396 | 0.99 | 49 | |
| SP | 8043 | BENISA CONVENTO | 0.04 | 38.72 | 210 | 0.48 | 50 | |
| SP | 4383 | BERLANGA | -5.83 | 38.28 | 573 | 0.31 | 41 | |
| SP | 9915 | BINEFARGRANJA | 0.29 | 41.86 | 285 | 0.85 | 47 | |
| SP | 7155 | BLANCA CASAFORESTAL | -1.32 | 38.18 | 240 | 0.22 | 48 | * |
| SP | 6106 | BOBADILLA ESTACION | -4.72 | 37.04 | 380 | 0.35 | 37 | |
| SP | 4114 | BOLAÑOSDECALATRAVA | -3.67 | 38.90 | 650 | 0.24 | 30 | |
| SP | 9822 | BOLTAÑA | 0.07 | 42.44 | 643 | 0.82 | 35 | |
| SP | 2636 | BOÑAR | -5.32 | 42.86 | 975 | 1.10 | 62 | |
| SP | 9767 | BORJAS BLANCAS | 0.86 | 41.52 | 304 | 0.43 | 31 | |
| SP | 7167 | BULLAS | -1.67 | 38.04 | 645 | 1.16 | 44 | |
| SP | 9305 | BUÑUEL | -1.44 | 41.97 | 242 | 0.24 | 34 | |
| SP | B264 | BUNYOLA'SON VIDAL' | 2.76 | 39.74 | 455 | 1.15 | 23 | |
| SP | 2331 | BURGOS 'VILLAFRIA' | -3.61 | 42.35 | 881 | 0.42 | 53 | |
| SP | 4503 | CABEZA LA VACA | -6.42 | 38.09 | 759 | 0.26 | 56 | * |
| SP | 3469 | CACERESCIUDAD | -6.37 | 39.48 | 459 | 0.04 | 77 | * |
| SP | 9283 | CADREITA | -1.71 | 42.21 | 268 | 0.24 | 56 | |
| SP | 7121 | CALASPARRA | -1.69 | 38.23 | 340 | 0.82 | 47 | |
| SP | 9395 | CALATAYUD | -1.63 | 41.35 | 534 | 0.28 | 34 | |
| SP | 4155A | CALZADACALATRAVA'COOPER.' | -3.77 | 38.70 | 645 | 0.19 | 41 | * |
| SP | 9198 | CANFRANCLOS ARA/ONES | -0.52 | 42.74 | 1160 | 1.50 | 86 | |
| SP | 9255 | CAPARROSO | -1.65 | 42.34 | 304 | 0.31 | 45 | |
| SP | 9689 | CAPDELLA | 0.99 | 42.46 | 1270 | 1.48 | 63 | |
| SP | 7119 | CARAVACA | -1.86 | 38.11 | 625 | 0.65 | 61 | |
| SP | 1700A | CARBALLINO'UCEIRA' | -8.05 | 42.44 | 440 | 0.60 | 42 | |
| SP | 2202 | CARBONERO EL MAYOR | -4.26 | 41.12 | 912 | 0.43 | 56 | |
| SP | 9246 | CARCASTILLOLA OLIVA | -1.46 | 42.37 | 340 | 0.30 | 61 | * |
| SP | 9425I | CARIÑENALA PARDINA | -1.21 | 41.40 | 496 | 0.31 | 35 | |
| SP | 2374A | CARRIONDELOS CONDES 'C.D.' | -4.60 | 42.34 | 839 | 0.29 | 60 | |
| SP | 7012 | CARTAGENA CASTILLOGALERAS | -0.99 | 37.59 | 219 | 0.00 | 30 | |
| SP | 39 | CASAFORT -NULLES | 1.30 | 41.25 | 230 | 0.80 | 46 | |

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|---|---|---|---|---|---|---|---|---|
| SP | 2752 | CASTROCONTRIGO | -6.19 | 42.17 | 920 | 0.70 | 65 | |
| SP | 2531E | CASTRONUÑO'PRESASAN JOSE' | -5.27 | 41.40 | 660 | 0.29 | 30 | |
| SP | 3363 | CAZALEGAS 'VIVERO' | -4.71 | 40.01 | 380 | 0.20 | 33 | |
| SP | 7120 | CEHEGIN | -1.79 | 38.09 | 572 | 1.11 | 32 | |
| SP | 9145A | CENICEROINDUSTRIAL | -2.64 | 42.48 | 430 | 0.35 | 49 | |
| SP | 2234 | CERVERADEPISUERGA | -4.49 | 42.86 | 1013 | 1.11 | 59 | |
| SP | 7131 | CIEZALOS ALMADENES | -1.55 | 38.24 | 200 | 0.19 | 33 | |
| SP | 2626 | CISTIERNA | -5.12 | 42.80 | 951 | 1.15 | 51 | |
| SP | 4121C | CIUDAD REAL'INSTITUTO' | -3.92 | 38.99 | 627 | 0.25 | 66 | |
| SP | 2946 | CIUDAD RODRIGO | -6.53 | 40.59 | 653 | 0.30 | 56 | |
| SP | 4037 | DAIMIEL'I.L.' | -3.60 | 39.07 | 615 | 0.39 | 40 | * |
| SP | 9390 | DAROCA OBSERVATORIO | -1.41 | 41.11 | 779 | 0.37 | 67 | |
| SP | 7201 | DOÑAINES | -1.84 | 37.92 | 786 | 0.83 | 58 | |
| SP | 2828 | EL BARCODEAVILA | -5.52 | 40.35 | 1007 | 0.52 | 52 | |
| SP | 9331F | EL BAYO | -1.26 | 42.19 | 360 | 0.25 | 33 | |
| SP | 2085 | EL BURGODEOSMA | -3.07 | 41.59 | 895 | 0.33 | 65 | |
| SP | 6118A | EL BURGO'ICONA' | -4.94 | 36.79 | 580 | 0.32 | 30 | |
| SP | 9833 | EL GRADO'EMBALSE' | 0.23 | 42.15 | 425 | 0.27 | 53 | * |
| SP | 7077 | ELCHEDELASIERRA | -2.04 | 38.44 | 630 | 0.44 | 58 | |
| SP | 7129 | EMBALSEALFONSO XIII | -1.59 | 38.22 | 312 | 0.61 | 65 | |
| SP | 7109 | EMBALSEDECAMARILLAS | -1.64 | 38.34 | 397 | 0.34 | 60 | * |
| SP | 7083 | EMBALSEDECENAJO | -1.77 | 38.36 | 360 | 0.19 | 64 | |
| SP | 7168 | EMBALSEDELA CIERVA | -1.49 | 38.06 | 395 | 0.68 | 65 | |
| SP | 7066 | EMBALSEDELA FUENSANTA | -2.22 | 38.39 | 680 | 0.68 | 64 | |
| SP | 7094 | EMBALSEDETALAVE | -1.86 | 38.51 | 550 | 0.17 | 61 | |
| SP | 7198 | EMBALSEDEVALDEINFIERNO | -1.96 | 37.80 | 690 | 0.47 | 63 | |
| SP | 8290 | ENGUERALASARENAS | -0.80 | 38.92 | 826 | 0.40 | 54 | * |
| SP | 9432 | EPILA'MONTARRON' | -1.29 | 41.60 | 336 | 0.33 | 33 | * |
| SP | 5826 | ESCACENADEL CAMPO'LAS CONTIEND | -6.42 | 37.57 | 417 | 0.38 | 50 | |
| SP | 9257E | EUGUIESTERIBAR | -1.52 | 42.96 | 615 | 1.28 | 30 | |
| SP | 4296 | FONTANOSAS | -4.54 | 38.76 | 570 | 0.24 | 31 | |
| SP | 4258 | FUENTE OBEJUNA 'CUENCA' | -5.56 | 38.32 | 571 | 0.22 | 38 | |
| SP | 1687 | FUENTEFIZ 'VILAR DE COLES' | -7.83 | 42.42 | 200 | 0.40 | 32 | |
| SP | 9704 | GABETCENTRAL | 0.89 | 42.10 | 380 | 0.88 | 48 | * |
| SP | 4515 | GALAROZA | -6.71 | 37.92 | 554 | 0.44 | 39 | |
| SP | 3384 | GARVIN DE LA JARA'EL PLANCHON' | -5.36 | 39.69 | 690 | 0.59 | 30 | * |
| SP | 6050 | GAUCIN | -5.31 | 36.52 | 626 | 0.65 | 33 | |
| SP | 3200 | GETAFE BASEAEREA | -3.72 | 40.30 | 617 | 0.24 | 34 | |
| SP | 1735 | GINZODELIMIA | -7.72 | 42.06 | 600 | 0.48 | 51 | |
| SP | 7058 | GONTAR | -2.43 | 38.22 | 914 | 0.84 | 50 | |
| SP | 5514 | GRANADA/BASE AEREA | -3.63 | 37.14 | 680 | 0.21 | 47 | * |
| SP | 9907I | GRAÑENMONTE SODETO | -0.25 | 41.89 | 365 | 0.36 | 38 | |
| SP | 9849 | GRAUS'VENTAS DE SANTA LUCIA' | 0.35 | 42.22 | 498 | 0.75 | 56 | |
| SP | 4245 | GUADALUPE 'MONASTERIO' | -5.32 | 39.45 | 640 | 0.50 | 51 | |
| SP | C468A | GUANCHA-ASOMADA | -16.64 | 28.36 | 500 | 0.00 | 41 | |
| SP | 9121 | HARO | -2.85 | 42.57 | 479 | 0.34 | 60 | |
| SP | 7096A | HELLINI.L. | -1.70 | 38.51 | 560 | 0.19 | 31 | |
| SP | 4244 | HERRERADELDUQUE | -5.04 | 39.16 | 465 | 0.20 | 31 | |
| SP | 3504 | HERVAS | -5.85 | 40.27 | 688 | 0.39 | 51 | |
| SP | 7091 | HIJAR | -2.02 | 38.54 | 617 | 0.31 | 41 | |
| SP | 9898 | HUESCAMONFLORITE | -0.32 | 42.08 | 541 | 0.27 | 55 | |
| SP | 9224 | JAVIERCASTILLO | -1.21 | 42.59 | 455 | 0.38 | 47 | |
| SP | 4511 | JEREZDELOS CABALLEROS | -6.77 | 38.32 | 492 | 0.05 | 70 | * |
| SP | 8029 | JIJONA | -0.50 | 38.54 | 415 | 0.35 | 37 | |
| SP | 7138 | JUMILLAESTACION VITICOLA | -1.33 | 38.47 | 510 | 0.30 | 42 | |
| SP | 7138A | JUMILLAI L | -1.36 | 38.47 | 502 | 0.26 | 39 | |

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|---|---|---|---|---|---|---|---|---|
| SP | 328 | LA FARGADEBEBIE | 2.20 | 42.13 | 608 | 0.99 | 48 | |
| SP | 3246 | LA GUARDIA | -3.47 | 39.79 | 699 | 0.29 | 33 | |
| SP | 9474 | LA PEÑA'EMBALSE' | -0.74 | 42.39 | 589 | 0.51 | 34 | |
| SP | 9547 | LA PUEBLA DE HIJAR | -0.44 | 41.22 | 245 | 0.33 | 34 | |
| SP | 9489 | LA SOTONERA'EMBALSE' | -0.67 | 42.10 | 413 | 0.47 | 65 | |
| SP | 2099 | LA VID DE ARANDA | -3.49 | 41.62 | 832 | 0.45 | 53 | |
| SP | 6258 | LANJARON | -3.49 | 36.92 | 710 | 0.25 | 50 | * |
| SP | 4110 | LAS LABORES | -3.52 | 39.27 | 650 | 0.39 | 30 | |
| SP | C658I | LAS PALMASDE GRANCANARIA 'V | -15.45 | 28.07 | 320 | 0.00 | 33 | |
| SP | 1037 | LEGAZPIA | -2.33 | 43.06 | 402 | 1.44 | 40 | |
| SP | 2661 | LEON'VIRGEN DEL CAMINO' | -5.65 | 42.59 | 913 | 0.45 | 60 | |
| SP | 9770 | LERIDAENHER | 0.63 | 41.62 | 221 | 0.21 | 39 | |
| SP | 7092 | LIETORC.H.S. | -1.95 | 38.54 | 641 | 0.43 | 59 | |
| SP | 5250 | LINARESFUENTE HIGUERA | -3.59 | 38.08 | 300 | 0.24 | 30 | |
| SP | C128A | LLANOS ARIDANE-A | -17.90 | 28.66 | 350 | 0.00 | 39 | |
| SP | 4020 | LLANOS DELCAUDILLO | -3.37 | 39.11 | 650 | 0.34 | 34 | * |
| SP | 9170 | LOGROÑO-AGONCILLO | -2.33 | 42.45 | 352 | 0.18 | 49 | * |
| SP | 7208 | LORCACH SEGURA | -1.70 | 37.67 | 335 | 0.15 | 62 | * |
| SP | 7209 | LORCAEST CEREALICULTURA | -1.69 | 37.65 | 320 | 0.27 | 43 | * |
| SP | 1518A | LUGO'COLEGIO FINGOY' | -7.55 | 43.01 | 450 | 0.24 | 32 | |
| SP | 3196 | MADRID CUATRO VIENTOS 'AERODROMO | -3.79 | 40.37 | 687 | 0.28 | 36 | |
| SP | 3195 | MADRID RETIRO | -3.67 | 40.41 | 667 | 0.14 | 62 | |
| SP | 3129 | MADRID/BARAJAS | -3.54 | 40.45 | 582 | 0.21 | 35 | |
| SP | 4067 | MADRIDEJOS | -3.53 | 39.47 | 690 | 0.29 | 30 | |
| SP | 6168 | MALAGA EL BOTICARIO | -4.39 | 36.79 | 500 | 0.30 | 46 | |
| SP | 6165 | MALAGA LASCONTADORAS | -4.39 | 36.84 | 630 | 0.75 | 45 | |
| SP | 4036 | MANZANARES'DOCTOR' | -3.53 | 38.97 | 660 | 0.31 | 37 | |
| SP | 9481 | MARRACOS | -0.77 | 42.09 | 400 | 0.39 | 37 | |
| SP | 9941 | MAZALEON | 0.10 | 41.05 | 359 | 0.37 | 33 | * |
| SP | 2604 | MEDINA DE RIOSECO | -5.04 | 41.88 | 749 | 0.21 | 54 | * |
| SP | 7106 | MINATEDA | -1.60 | 38.46 | 530 | 0.69 | 35 | |
| SP | 9044 | MIÑON | -3.50 | 42.94 | 595 | 0.77 | 31 | |
| SP | 9069 | MIRANDADEEBRO | -2.95 | 42.67 | 520 | 0.30 | 69 | |
| SP | 7065 | MOLINICOS | -2.24 | 38.46 | 823 | 0.47 | 55 | * |
| SP | 1144 | MOLLEDODEPORTOLIN | -4.03 | 43.14 | 242 | 1.08 | 36 | |
| SP | 9729 | MOLLERUSA 'GRANJA' | 0.86 | 41.61 | 268 | 0.43 | 34 | |
| SP | 9515 | MONEVA-EMBALSE | -0.83 | 41.17 | 650 | 0.63 | 30 | |
| SP | 1679A | MONFORTEDELEMOS'E.AGRICOLA' | -7.51 | 42.52 | 363 | 0.08 | 42 | * |
| SP | 8009E | MONOVARELESVARADOR | -0.87 | 38.47 | 560 | 0.24 | 30 | |
| SP | 9690 | MONROS MOLINOS | 0.97 | 42.40 | 1020 | 0.68 | 65 | |
| SP | 9301 | MONTEAGUDO | -1.69 | 41.96 | 410 | 0.30 | 68 | |
| SP | 9562 | MORELLA | -0.10 | 40.62 | 990 | 0.89 | 63 | |
| SP | 8155 | MOTILLADELPALANCAR | -1.89 | 39.57 | 831 | 0.50 | 55 | |
| SP | 120 | MOYA | 2.10 | 41.82 | 800 | 0.51 | 73 | |
| SP | 4222 | NAVALPINO 'BAÑOS VILLANAREJO' | -4.59 | 39.25 | 665 | 0.19 | 39 | |
| SP | 8013 | NOVELDA | -0.77 | 38.38 | 241 | 0.00 | 32 | |
| SP | 3495 | NUÑOMORAL VEGAS DECORIA | -6.19 | 40.38 | 465 | 0.42 | 41 | |
| SP | 9638 | OLIANA 'EMBALSE' | 1.30 | 42.08 | 480 | 0.41 | 50 | |
| SP | 9252 | OLITE | -1.65 | 42.49 | 395 | 0.39 | 60 | |
| SP | 392 | OLOT'ESTACION DEPURADORA' | 2.49 | 42.20 | 380 | 0.89 | 34 | * |
| SP | 8283 | ONTINYENT | -0.60 | 38.82 | 350 | 0.85 | 58 | |
| SP | 7102A | ONTURCENTRO URBANO | -1.49 | 38.61 | 670 | 0.36 | 30 | |
| SP | 5998A | OSUNA'S.E.A.' | -5.11 | 37.24 | 255 | 0.00 | 30 | |
| SP | 9268 | OTZAURTE | -2.27 | 42.93 | 660 | 1.32 | 34 | |
| SP | 1247 | OVIEDO 'LACADELLADA' | -5.82 | 43.37 | 220 | 0.44 | 45 | |

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|---|---|---|---|---|---|---|---|---|
| SP | 9910 | PALLARUELODE MONEGROS | -0.21 | 41.70 | 356 | 0.30 | 43 | |
| SP | 9262C | PAMPLONAGRANJA | -1.66 | 42.82 | 422 | 0.69 | 42 | |
| SP | 9262 | PAMPLONAOBSERVATORIO | -1.64 | 42.82 | 442 | 0.68 | 45 | |
| SP | 8388 | PANTANODEBENAGEVER | -1.10 | 39.73 | 461 | 0.52 | 35 | |
| SP | 2362 | PANTANODECAMPORREDONDO | -4.74 | 42.90 | 1253 | 1.43 | 64 | |
| SP | 6120 | PANTANODEGUADALHORCE | -4.80 | 36.93 | 325 | 0.00 | 34 | |
| SP | 8084 | PANTANODELA TOBA | -1.92 | 40.22 | 1154 | 0.82 | 53 | |
| SP | 5729 | PANTANODELPINTADO | -5.95 | 37.98 | 300 | 0.00 | 46 | |
| SP | 2843 | PANTANODESTA. TERESA | -5.60 | 40.67 | 840 | 0.46 | 59 | |
| SP | 4189 | PANTANODETORRE DE ABRAHAM | -4.25 | 39.37 | 697 | 0.51 | 31 | |
| SP | 3502 | PANTANOGABRIEL YGALAN | -6.12 | 40.22 | 400 | 0.24 | 36 | |
| SP | 3422 | PANTANOROSARITO | -5.32 | 40.11 | 334 | 0.06 | 36 | * |
| SP | 9451 | PANTICOSA BALNEARIO | -0.23 | 42.76 | 1660 | 3.02 | 51 | |
| SP | 7088 | PATERNAMADERA C.H.S. | -2.34 | 38.59 | 1133 | 0.82 | 56 | |
| SP | 4286 | PEDROCHE | -4.76 | 38.42 | 621 | 0.16 | 37 | |
| SP | 7247 | PINOSO CHSEGURA | -1.04 | 38.40 | 574 | 0.43 | 61 | |
| SP | 9696A | POBLADESEGUR FECSA | 0.97 | 42.25 | 550 | 0.45 | 46 | |
| SP | 1549 | PONFERRADA | -6.58 | 42.63 | 550 | 0.49 | 44 | |
| SP | 9649 | PONS | 1.19 | 41.92 | 360 | 0.35 | 32 | |
| SP | 7045 | PONTONESCH SEGURA | -2.67 | 38.12 | 1350 | 0.92 | 64 | |
| SP | 4275 | POZOBLANCO | -4.85 | 38.37 | 649 | 0.15 | 59 | |
| SP | 1273 | PRESADELABARCA | -6.30 | 43.32 | 214 | 0.64 | 30 | |
| SP | 3510 | PRESADEVALDEOBISPO | -6.25 | 40.09 | 280 | 0.23 | 35 | |
| SP | 1411 | PRESARAS | -8.09 | 43.04 | 410 | 0.46 | 46 | |
| SP | 2667 | PRIORO | -4.96 | 42.89 | 1123 | 1.57 | 55 | |
| SP | 1672 | PUEBLA DELBROLLON'VEIGA' | -7.41 | 42.59 | 400 | 0.33 | 47 | |
| SP | 9755 | PUENTE DE MONTAÑANA | 0.70 | 42.15 | 528 | 0.20 | 30 | |
| SP | 1363 | PUENTESDEGARCIARODRIGUEZ | -7.86 | 43.44 | 343 | 0.55 | 49 | |
| SP | 7211 | PUERTO LUMBRERAS CH SEGURA | -1.81 | 37.56 | 465 | 0.23 | 57 | * |
| SP | 2697 | RABANALDELUNA | -5.97 | 42.93 | 1150 | 1.58 | 60 | |
| SP | 9001 | REINOSA | -4.14 | 43.00 | 855 | 2.46 | 76 | |
| SP | 8313 | REQUENA | -1.09 | 39.48 | 692 | 0.62 | 54 | |
| SP | 2624 | RIAÑO | -5.01 | 42.97 | 1048 | 1.44 | 54 | |
| SP | 2377 | RIBASDECAMPOS 'VIVERO' | -4.52 | 42.15 | 777 | 0.29 | 51 | * |
| SP | 7156 | RICOTE LA CALERA | -1.38 | 38.14 | 480 | 0.35 | 47 | |
| SP | 7085 | RIOPARFABRICASC.H.S. | -2.42 | 38.50 | 1000 | 0.45 | 62 | |
| SP | 9460 | SABIÑANIGO | -0.36 | 42.52 | 790 | 0.88 | 56 | |
| SP | 2867 | SALAMANCA 'MATACAN' | -5.49 | 40.94 | 790 | 0.21 | 53 | |
| SP | 2370 | SALDAÑA | -4.73 | 42.52 | 912 | 0.47 | 52 | |
| SP | 111 | SALLENTCABRIANAS | 1.89 | 41.79 | 246 | 0.48 | 56 | |
| SP | 2899 | SALTODEALDEADAVILA | -6.68 | 41.22 | 220 | 0.37 | 34 | |
| SP | 3082 | SALTODEBOLARQUE | -2.83 | 40.36 | 620 | 0.24 | 36 | * |
| SP | 2802 | SALTODERICOBAYO | -5.98 | 41.52 | 702 | 0.22 | 61 | |
| SP | 2805 | SALTODEVILLALCAMPO | -6.07 | 41.49 | 570 | 0.20 | 40 | |
| SP | 3086 | SALTODEZORITA | -2.88 | 40.34 | 642 | 0.15 | 36 | |
| SP | 2095 | SAN ESTEBANDE GORMAZ | -3.20 | 41.57 | 860 | 0.38 | 64 | |
| SP | 9710 | SAN LORENZO'EMBALSE' | 0.83 | 41.85 | 245 | 0.56 | 50 | |
| SP | 1318 | SAN MARTINDE OSCOS | -6.96 | 43.26 | 697 | 1.39 | 31 | |
| SP | 1024E | SAN SEBASTIAN 'IGUELDO' | -2.04 | 43.30 | 259 | 0.39 | 73 | |
| SP | 2922 | SANCTI-SPIRITUS | -6.40 | 40.70 | 756 | 0.38 | 51 | |
| SP | 173 | SANTAMARGARITA DEMOMBUY | 1.59 | 41.55 | 400 | 1.19 | 44 | * |
| SP | 1428 | SANTIAGOCOMPOSTELA 'LABACOLLA' | -8.42 | 42.89 | 364 | 0.32 | 45 | * |
| SP | 7056 | SANTIAGODELA ESPADA | -2.55 | 38.11 | 1340 | 1.10 | 64 | |
| SP | 1525 | SARRIA 'BARREIROSGRANJA' | -7.41 | 42.77 | 550 | 0.66 | 55 | |
| SP | 9174 | SARTAGUDA | -2.05 | 42.36 | 310 | 0.35 | 73 | * |
| SP | 8438 | SEGORBE | -0.49 | 39.85 | 364 | 0.50 | 43 | |

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|---|---|---|---|---|---|---|---|---|
| SP | 2465 | SEGOVIA'OBSERVATORIO' | -4.12 | 40.95 | 1005 | 0.27 | 64 | |
| SP | 9843 | SEIRACENTRAL | 0.44 | 42.47 | 816 | 0.83 | 60 | |
| SP | 9695 | SENTERADA | 0.94 | 42.32 | 660 | 0.44 | 49 | |
| SP | 9619 | SEO DE URGEL | 1.46 | 42.35 | 692 | 0.69 | 40 | |
| SP | 3448 | SERRADILLA | -6.14 | 39.83 | 410 | 0.28 | 34 | |
| SP | 7081 | SOCOVOS | -1.98 | 38.33 | 750 | 0.69 | 56 | * |
| SP | 4097 | SOCUELLAMOS | -2.79 | 39.28 | 674 | 0.29 | 33 | * |
| SP | 132 | SOLSONA | 1.52 | 42.00 | 677 | 0.53 | 43 | * |
| SP | 2030 | SORIA'OBSERVATORIO' | -2.48 | 41.77 | 1082 | 0.43 | 67 | |
| SP | 9244 | SOS DELREYCATOLICO | -1.20 | 42.50 | 542 | 0.52 | 42 | |
| SP | 3117 | TALAMANCA DEL JARAMA | -3.51 | 40.74 | 654 | 0.37 | 34 | |
| SP | 9700 | TALARN 'PRESA' | 0.90 | 42.17 | 425 | 0.49 | 62 | |
| SP | 9918 | TAMARITEDELITERA'LA MELUSA' | 0.37 | 41.77 | 218 | 0.29 | 33 | |
| SP | 9720 | TARREGA | 1.14 | 41.64 | 375 | 1.00 | 49 | |
| SP | 9708 | TERRADETS 'EMBALSE' | 0.89 | 42.04 | 399 | 0.55 | 49 | * |
| SP | 9371 | TERRER AZUCARERA | -1.71 | 41.32 | 570 | 0.28 | 66 | |
| SP | 9971 | TIVISSA | 0.73 | 41.04 | 310 | 0.82 | 80 | * |
| SP | 4103 | TOMELLOSO | -3.02 | 39.15 | 662 | 0.26 | 31 | |
| SP | 5330A | TORREDONJIMENO 'INSTITUTO' | -3.95 | 37.76 | 591 | 0.36 | 40 | |
| SP | 3175 | TORREJONDEARDOZ/B.AEREA | -3.45 | 40.48 | 611 | 0.24 | 36 | |
| SP | 4140 | TORREJUANABAD 'TERCERAS' | -3.16 | 38.66 | 810 | 0.35 | 60 | |
| SP | 7214 | TOTANA ALQUERIAS | -1.57 | 37.83 | 799 | 0.22 | 62 | * |
| SP | 7218 | TOTANA IL | -1.50 | 37.76 | 225 | 0.23 | 42 | |
| SP | 7216 | TOTANA MORTI | -1.53 | 37.79 | 480 | 0.00 | 39 | |
| SP | 7217 | TOTANA PRESA DEL PARETON | -1.45 | 37.72 | 200 | 0.29 | 65 | * |
| SP | 3465 | TRUJILLO | -5.87 | 39.45 | 518 | 0.32 | 49 | |
| SP | 9302 | TUDELA AZUCARERA | -1.59 | 42.06 | 263 | 0.31 | 36 | |
| SP | 2177 | TUDELA DE DUERO | -4.58 | 41.58 | 702 | 0.22 | 52 | |
| SP | 9076 | ULLIVARRI GAMBOA 'PRESA' | -2.61 | 42.92 | 570 | 0.98 | 30 | |
| SP | 9080 | URRUNAGA'PRESA' | -2.65 | 42.96 | 540 | 1.20 | 30 | |
| SP | 8311 | UTIEL | -1.20 | 39.57 | 742 | 0.36 | 55 | |
| SP | 3576 | VALENCIADEALCANTARA | -7.24 | 39.41 | 460 | 0.09 | 53 | |
| SP | 2409E | VALLADOLID'NICAS' | -4.68 | 41.69 | 690 | 0.26 | 37 | |
| SP | 2422 | VALLADOLID'OBSERVATORIO' | -4.77 | 41.64 | 735 | 0.18 | 67 | |
| SP | 2539 | VALLADOLID'VILLANUBLA' | -4.87 | 41.72 | 845 | 0.24 | 60 | |
| SP | C319E | VALLEHERMOSO | -17.26 | 28.17 | 212 | 0.00 | 35 | |
| SP | C665I | VALLESECO-CASCO | -15.57 | 28.04 | 980 | 0.00 | 52 | |
| SP | 2403 | VENTADEBAÑOS 'AZUCARERA' | -4.49 | 41.92 | 720 | 0.23 | 59 | |
| SP | 9991 | VIELLA | 0.79 | 42.71 | 940 | 1.06 | 55 | |
| SP | 1495 | VIGO'PEINADOR' | -8.63 | 42.22 | 255 | 0.26 | 37 | |
| SP | 1124 | VILLACARRIEDO | -3.80 | 43.23 | 212 | 0.94 | 50 | |
| SP | 1569B | VILLAFRANCA'CUBELOS' | -6.81 | 42.60 | 518 | 0.48 | 36 | |
| SP | 2728 | VILLAMECA | -6.07 | 42.64 | 978 | 0.81 | 65 | |
| SP | 4331 | VILLANUEVADE LA SERENA | -5.79 | 38.97 | 294 | 0.05 | 43 | * |
| SP | 3531 | VILLANUEVADE LA SIERRA | -6.40 | 40.20 | 524 | 0.39 | 33 | |
| SP | 4274 | VILLARALTO | -4.98 | 38.45 | 583 | 0.21 | 46 | |
| SP | 3304 | VILLAREJO DE MONTALBAN | -4.57 | 39.77 | 533 | 0.14 | 35 | |
| SP | 8007 | VILLENA | -0.87 | 38.63 | 505 | 0.37 | 49 | |
| SP | 2006 | VINUESA | -2.76 | 41.91 | 1107 | 1.22 | 54 | |
| SP | 9087 | VITORIAAEROPUERTO | -2.65 | 42.85 | 521 | 0.75 | 36 | |
| SP | 7275 | YECLACH SEGURA | -1.10 | 38.62 | 605 | 0.38 | 62 | |
| SP | 9223 | YESA'EMBALSE' | -1.19 | 42.62 | 515 | 0.59 | 58 | |
| SP | 7061 | YESTEC.H.S. | -2.31 | 38.37 | 900 | 0.65 | 54 | * |
| SP | 4427 | ZAFRA | -6.42 | 38.42 | 508 | 0.27 | 56 | |
| SP | 2614A | ZAMORA 'IBERDUERO' | -5.74 | 41.50 | 655 | 0.23 | 41 | |
| SP | 2614 | ZAMORA 'OBSERVATORIO' | -5.75 | 41.49 | 667 | 0.18 | 67 | |

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|---|---|---|---|---|---|---|---|---|
| SP | 9434 | ZARAGOZAAEROPUERTO | -1.00 | 41.66 | 247 | 0.28 | 47 | |
| SP | 9499 | ZARAGOZAAULA DEI | -0.81 | 41.72 | 225 | 0.36 | 33 | |
| SP | 9443E | ZARAGOZAOBSERVATORIO | -0.88 | 41.64 | 233 | 0.29 | 34 | |
| SP | 1287 | ZARDAIN | -6.55 | 43.39 | 410 | 1.00 | 30 | |
| SP | 4311 | ZARZACAPILLA | -5.15 | 38.80 | 600 | 0.36 | 40 | |
| SP | 7206 | ZARZADILLADE TOTANA | -1.70 | 37.87 | 861 | 0.44 | 58 | * |
| SP | 3540E | ZARZALAMAYOR | -6.86 | 39.87 | 304 | 0.04 | 30 | |
| SP | 9495 | ZUERAEL VEDADO | -0.65 | 41.87 | 298 | 0.33 | 32 | |
| UK | 6379 | ABBOTSINCH, GLASGOW (L.P.M.S.) | -4.43 | 55.87 | 5 | 0.33 | 47 | |
| UK | 8009 | ABERPORTH | -4.57 | 52.13 | 133 | 0.26 | 40 | |
| UK | 351 | ACHANY | -4.42 | 57.98 | 85 | 0.75 | 38 | |
| UK | 9142 | ALDERGROVE | -6.22 | 54.65 | 68 | 0.43 | 46 | |
| UK | 9147 | ALTNAHINCH FILTERS | -6.25 | 55.05 | 213 | 0.60 | 31 | * |
| UK | 7623 | ALWEN | -3.55 | 53.07 | 335 | 0.64 | 28 | |
| UK | 1393 | ARBROATH | -2.58 | 56.55 | 29 | 0.28 | 36 | |
| UK | 1435 | ARDTALNAIG | -4.12 | 56.53 | 130 | 0.61 | 37 | |
| UK | 9336 | ARMAGH (LPMS) | -6.65 | 54.35 | 62 | 0.37 | 33 | |
| UK | 6025 | AROS | -5.98 | 56.53 | 37 | 0.27 | 30 | |
| UK | 4166 | ASHOVER | -1.47 | 53.15 | 178 | 0.71 | 29 | |
| UK | 4088 | ASKHAM BRYAN | -1.17 | 53.92 | 32 | 0.32 | 38 | * |
| UK | 1226 | BALMORAL | -3.20 | 57.03 | 283 | 0.86 | 38 | |
| UK | 88 | BALTASOUND | -0.88 | 60.77 | 24 | 0.63 | 37 | |
| UK | 9042 | BANAGHER (CAUGH HILL) | -6.97 | 54.88 | 216 | 0.72 | 25 | |
| UK | 1189 | BANFF | -2.52 | 57.67 | 24 | 0.30 | 12 | |
| UK | 6704 | BARGRENNAN | -4.57 | 55.07 | 110 | 0.47 | 37 | * |
| UK | 8697 | BATH | -2.37 | 51.37 | 118 | 0.31 | 38 | * |
| UK | 516 | BENBECULA | -7.37 | 57.47 | 5 | 0.23 | 35 | |
| UK | 6085 | BENMORE (YOUNGER BOTANIC GDN) | -4.98 | 56.03 | 12 | 0.51 | 37 | |
| UK | 5480 | BEXHILL | 0.47 | 50.83 | 4 | 0.32 | 37 | * |
| UK | 2468 | BINBROOK | -0.20 | 53.45 | 108 | 0.48 | 26 | |
| UK | 1836 | BLYTH BRIDGE | -3.37 | 55.72 | 253 | 0.62 | 38 | |
| UK | 5411 | BOGNOR REGIS | -0.68 | 50.78 | 7 | 0.20 | 33 | * |
| UK | 7263 | BOLTON | -2.42 | 53.60 | 107 | 0.56 | 24 | * |
| UK | 5872 | BOSCOMBE DOWN | -1.75 | 51.17 | 126 | 0.38 | 30 | |
| UK | 7713 | BOTWNNOG | -4.57 | 52.85 | 34 | 0.19 | 26 | |
| UK | 1935 | BOWHILL | -2.90 | 55.53 | 168 | 0.73 | 38 | |
| UK | 4045 | BRADFORD | -1.77 | 53.82 | 134 | 0.65 | 36 | |
| UK | 4076 | BRAMHAM | -1.33 | 53.87 | 54 | 0.40 | 38 | |
| UK | 4504 | BRIZE NORTON | -1.58 | 51.75 | 81 | 0.27 | 29 | * |
| UK | 6133 | BRODICK CASTLE | -5.15 | 55.60 | 15 | 0.34 | 32 | |
| UK | 3115 | BROOMS BARN | 0.57 | 52.27 | 75 | 0.30 | 32 | |
| UK | 8987 | BUDE | -4.55 | 50.83 | 15 | 0.21 | 31 | |
| UK | 1643 | BUSH HOUSE | -3.20 | 55.85 | 184 | 0.61 | 38 | |
| UK | 4112 | BUXTON | -1.92 | 53.25 | 307 | 0.91 | 38 | |
| UK | 4341 | CALDECOTT | -0.73 | 52.52 | 53 | 0.36 | 36 | |
| UK | 3253 | CAMBRIDGE (BOTANICAL GARDENS) | 0.13 | 52.20 | 12 | 0.30 | 38 | |
| UK | 3254 | CAMBRIDGE (N.I.A.B.) | 0.10 | 52.23 | 26 | 0.34 | 38 | |
| UK | 6483 | CAMPS RESERVOIR | -3.58 | 55.48 | 295 | 0.69 | 32 | |
| UK | 329 | CAPE WRATH | -5.00 | 58.62 | 112 | 0.29 | 39 | * |
| UK | 7050 | CARLISLE | -2.95 | 54.93 | 26 | 0.31 | 27 | |
| UK | 6478 | CARNWATH | -3.63 | 55.70 | 208 | 0.60 | 37 | |
| UK | 9433 | CARRIGANS | -7.32 | 54.67 | 113 | 0.43 | 29 | |
| UK | 9547 | CASTLE ARCHDALE FOREST | -7.70 | 54.47 | 66 | 0.40 | 27 | |
| UK | 4086 | CAWOOD | -1.15 | 53.83 | 6 | 0.32 | 38 | |
| UK | 4967 | CHELTENHAM | -2.08 | 51.90 | 65 | 0.36 | 16 | |
| UK | 5612 | CHRISTCHURCH | -1.78 | 50.73 | 4 | 0.26 | 29 | * |

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|---|---|---|---|---|---|---|---|---|
| UK | 8477 | CILFYNYDD | -3.30 | 51.63 | 194 | 0.58 | 19 | |
| UK | 3691 | CLACTON-ON-SEA | 1.15 | 51.78 | 16 | 0.35 | 36 | * |
| UK | 2084 | COCKLE PARK | -1.68 | 55.22 | 99 | 0.65 | 38 | |
| UK | 3078 | COLTISHALL | 1.35 | 52.77 | 17 | 0.43 | 32 | |
| UK | 9488 | COOKSTOWN | -6.75 | 54.60 | 77 | 0.43 | 24 | |
| UK | 7884 | CORWEN | -3.42 | 52.95 | 144 | 0.62 | 36 | |
| UK | 1272 | CRAIBSTONE | -2.20 | 57.18 | 102 | 0.63 | 26 | |
| UK | 3069 | CROMER | 1.28 | 52.93 | 54 | 0.39 | 36 | |
| UK | 8585 | CRUMBLAND PLANTATION | -2.77 | 51.72 | 245 | 0.61 | 23 | |
| UK | 8922 | CULDROSE | -5.25 | 50.08 | 78 | 0.23 | 33 | * |
| UK | 8086 | CWMSTYTH | -3.82 | 52.35 | 301 | 0.47 | 20 | * |
| UK | 1444 | DRUMMOND CASTLE | -3.88 | 56.33 | 113 | 0.80 | 27 | |
| UK | 6641 | DUMFRIES | -3.60 | 55.07 | 49 | 0.39 | 27 | * |
| UK | 1699 | DUNBAR | -2.52 | 56.00 | 23 | 0.24 | 37 | * |
| UK | 1361 | DUNDEE | -2.93 | 56.47 | 45 | 0.44 | 37 | |
| UK | 2165 | DURHAM (LPMS) | -1.58 | 54.77 | 102 | 0.69 | 38 | |
| UK | 1273 | DYCE | -2.20 | 57.20 | 65 | 0.58 | 40 | |
| UK | 5336 | EAST MALLING | 0.45 | 51.28 | 33 | 0.32 | 37 | * |
| UK | 5471 | EASTBOURNE | 0.28 | 50.77 | 7 | 0.23 | 20 | * |
| UK | 1636 | EDINBURGH-EAST CRAIGS | -3.32 | 55.95 | 61 | 0.42 | 38 | |
| UK | 1649 | EDINBURGH-ROYAL BOTANIC GARDENS | -3.20 | 55.97 | 26 | 0.34 | 38 | |
| UK | 4447 | ELMDON | -1.73 | 52.45 | 96 | 0.51 | 47 | |
| UK | 6679 | ESKDALEMUIR (STEV. SCREEN) | -3.20 | 55.32 | 242 | 0.79 | 40 | |
| UK | 5631 | EVERTON | -1.57 | 50.73 | 16 | 0.33 | 38 | * |
| UK | 8884 | EXETER | -3.42 | 50.73 | 32 | 0.33 | 34 | * |
| UK | 1467 | FASKALLY | -3.77 | 56.72 | 94 | 0.53 | 38 | * |
| UK | 5367 | FAVERSHAM | 0.87 | 51.28 | 48 | 0.53 | 29 | |
| UK | 4248 | FINNINGLEY | -1.00 | 53.48 | 10 | 0.35 | 37 | |
| UK | 5380 | FOLKESTONE | 1.17 | 51.08 | 31 | 0.49 | 24 | |
| UK | 575 | FORT AUGUSTUS | -4.67 | 57.13 | 21 | 0.48 | 38 | |
| UK | 482 | FORTROSE | -4.08 | 57.58 | 5 | 0.23 | 24 | |
| UK | 8971 | FOWEY | -4.63 | 50.33 | 75 | 0.16 | 32 | * |
| UK | 1267 | FYVIE CASTLE | -2.38 | 57.45 | 55 | 0.54 | 26 | |
| UK | 5271 | GATWICK | -0.18 | 51.15 | 59 | 0.40 | 37 | |
| UK | 6418 | GLASGOW (SPRINGBURN) | -4.23 | 55.88 | 107 | 0.54 | 32 | |
| UK | 6745 | GLENLEE | -4.18 | 55.10 | 55 | 0.54 | 24 | |
| UK | 1115 | GLENLIVET | -3.35 | 57.35 | 215 | 0.97 | 40 | |
| UK | 6764 | GLENLOCHAR BARRAGE | -3.98 | 54.97 | 47 | 0.44 | 38 | |
| UK | 1866 | GLENTRESS | -3.13 | 55.65 | 165 | 0.62 | 17 | |
| UK | 5331 | GOUDHURST | 0.45 | 51.07 | 85 | 0.46 | 35 | |
| UK | 1041 | GRANTOWN-ON-SPEY | -3.60 | 57.33 | 220 | 0.99 | 28 | |
| UK | 5076 | GREENWICH | 0.00 | 51.48 | 7 | 0.36 | 30 | |
| UK | 4567 | GRENDON UNDERWOOD | -1.02 | 51.75 | 67 | 0.48 | 33 | |
| UK | 7229 | GRIZEDALE | -3.02 | 54.35 | 91 | 0.71 | 37 | |
| UK | 9912 | GUERNSEY AIRPORT | -2.60 | 49.43 | 101 | 0.37 | 46 | |
| UK | 5028 | HAMPSTEAD | -0.18 | 51.57 | 137 | 0.64 | 36 | |
| UK | 2194 | HARTLEPOOL | -1.20 | 54.68 | 9 | 0.47 | 27 | |
| UK | 5490 | HASTINGS | 0.57 | 50.85 | 45 | 0.47 | 35 | |
| UK | 7467 | HAWARDEN BRIDGE | -3.02 | 53.20 | 5 | 0.35 | 38 | |
| UK | 8603 | HAWKRIDGE | -3.60 | 51.08 | 314 | 0.63 | 34 | * |
| UK | 2034 | HAYDON BRIDGE | -2.25 | 54.97 | 82 | 0.60 | 31 | |
| UK | 5680 | HAYLING ISLAND | -0.98 | 50.78 | 4 | 0.24 | 37 | |
| UK | 5113 | HEATHROW | -0.45 | 51.48 | 25 | 0.35 | 46 | |
| UK | 9288 | HELENS BAY | -5.75 | 54.67 | 43 | 0.37 | 36 | |
| UK | 6214 | HELENSBURGH (6213 TO 1980) | -4.72 | 56.02 | 96 | 0.59 | 38 | * |
| UK | 2337 | HIGH MOWTHORPE | -0.63 | 54.10 | 175 | 0.76 | 38 | |

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|---|---|---|---|---|---|---|---|---|
| UK | 9238 | HILLSBOROUGH | -6.07 | 54.45 | 116 | 0.36 | 38 | |
| UK | 4043 | HUDDERSFIELD (OAKES) | -1.83 | 53.65 | 232 | 0.96 | 31 | |
| UK | 2361 | HULL | -0.35 | 53.75 | 2 | 0.39 | 38 | |
| UK | 5588 | HURLEY | -0.82 | 51.53 | 43 | 0.36 | 32 | |
| UK | 5603 | HURN | -1.83 | 50.78 | 10 | 0.32 | 39 | |
| UK | 8829 | ILFRACOMBE | -4.13 | 51.20 | 8 | 0.27 | 20 | |
| UK | 588 | INVERNESS | -4.22 | 57.48 | 4 | 0.50 | 20 | |
| UK | 437 | INVERPOLLY | -5.25 | 58.07 | 14 | 0.40 | 33 | |
| UK | 1264 | INVERURIE | -2.37 | 57.27 | 54 | 0.48 | 28 | |
| UK | 533 | ISLE OF RHUM | -6.28 | 57.02 | 5 | 0.37 | 38 | |
| UK | 9970 | JERSEY (ST HELIER) | -2.10 | 49.20 | 54 | 0.36 | 21 | |
| UK | 9965 | JERSEY AIRPORT | -2.20 | 49.20 | 84 | 0.48 | 24 | |
| UK | 4617 | KEELE | -2.27 | 53.00 | 179 | 0.57 | 38 | |
| UK | 1989 | KELSO | -2.42 | 55.60 | 34 | 0.52 | 30 | * |
| UK | 2007 | KIELDER CASTLE | -2.57 | 55.23 | 201 | 0.96 | 38 | |
| UK | 1479 | KINDROGAN | -3.55 | 56.75 | 259 | 1.18 | 24 | |
| UK | 1057 | KINLOSS | -3.57 | 57.65 | 5 | 0.44 | 40 | |
| UK | 1516 | KINROSS | -3.42 | 56.22 | 116 | 0.39 | 18 | * |
| UK | 154 | KIRKWALL | -2.90 | 58.95 | 26 | 0.37 | 39 | |
| UK | 7366 | KNUTSFORD | -2.35 | 53.30 | 65 | 0.36 | 35 | |
| UK | 7947 | LAKE VYRNWY | -3.47 | 52.75 | 303 | 0.89 | 27 | |
| UK | 5647 | LECKFORD | -1.45 | 51.12 | 117 | 0.47 | 38 | |
| UK | 2245 | LEEMING | -1.53 | 54.30 | 32 | 0.41 | 31 | |
| UK | 44 | LERWICK (STEVENSON SCREEN) | -1.18 | 60.13 | 82 | 0.49 | 40 | |
| UK | 1577 | LEUCHARS | -2.87 | 56.38 | 10 | 0.34 | 40 | |
| UK | 7665 | LOGGERHEADS | -3.20 | 53.15 | 210 | 0.65 | 36 | |
| UK | 8678 | LONG ASHTON | -2.67 | 51.43 | 51 | 0.23 | 29 | * |
| UK | 5687 | LONG SUTTON | -0.93 | 51.20 | 145 | 0.40 | 30 | |
| UK | 1079 | LOSSIEMOUTH | -3.32 | 57.72 | 6 | 0.34 | 30 | |
| UK | 9515 | LOUGH NAVER FOREST | -7.90 | 54.43 | 126 | 0.55 | 35 | |
| UK | 9347 | LOUGHGALL | -6.60 | 54.40 | 25 | 0.28 | 34 | |
| UK | 3197 | LOWESTOFT | 1.75 | 52.50 | 25 | 0.34 | 38 | |
| UK | 9167 | LOWTOWN | -6.02 | 54.83 | 213 | 0.92 | 30 | |
| UK | 5848 | LYNEHAM | -1.98 | 51.50 | 145 | 0.32 | 40 | * |
| UK | 7384 | MACCLESFIELD | -2.13 | 53.27 | 143 | 0.47 | 38 | |
| UK | 6040 | MACHRIHANISH | -5.70 | 55.43 | 10 | 0.15 | 31 | |
| UK | 4017 | MALHAM TARN | -2.17 | 54.10 | 381 | 0.98 | 25 | |
| UK | 4813 | MALVERN | -2.32 | 52.12 | 62 | 0.51 | 35 | |
| UK | 5396 | MANSTON | 1.35 | 51.35 | 44 | 0.33 | 35 | |
| UK | 3024 | MARHAM | 0.55 | 52.65 | 21 | 0.33 | 37 | |
| UK | 5877 | MARLBOROUGH | -1.73 | 51.42 | 129 | 0.37 | 27 | |
| UK | 5666 | MARTYR WORTHY | -1.27 | 51.10 | 84 | 0.26 | 36 | |
| UK | 5255 | MICKLEHAM | -0.32 | 51.27 | 55 | 0.53 | 33 | |
| UK | 8132 | MILFORD HAVEN C.B. | -5.05 | 51.70 | 37 | 0.31 | 31 | |
| UK | 3357 | MONK'S WOOD | -0.23 | 52.40 | 41 | 0.37 | 33 | |
| UK | 1398 | MONTROSE | -2.48 | 56.75 | 55 | 0.37 | 32 | |
| UK | 7239 | MORECAMBE | -2.87 | 54.07 | 7 | 0.12 | 19 | * |
| UK | 4463 | MORETON MORRELL | -1.55 | 52.20 | 85 | 0.46 | 30 | |
| UK | 3063 | MORLEY ST BOTOLPH | 1.05 | 52.55 | 46 | 0.55 | 26 | |
| UK | 9260 | MURLOUGH | -5.85 | 54.25 | 12 | 0.28 | 19 | |
| UK | 1351 | MYLNEFIELD | -3.07 | 56.45 | 31 | 0.39 | 38 | |
| UK | 1008 | NAIRN | -3.90 | 57.58 | 8 | 0.33 | 38 | |
| UK | 8424 | NEATH | -3.85 | 51.65 | 62 | 0.29 | 33 | * |
| UK | 8633 | NETTLECOMBE | -3.35 | 51.13 | 96 | 0.48 | 28 | * |
| UK | 4787 | NEWPORT (SALOP) | -2.43 | 52.77 | 64 | 0.57 | 30 | |
| UK | 7071 | NEWTON RIGG | -2.78 | 54.67 | 171 | 0.51 | 38 | |

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| UK | 4316 | NEWTOWN LINFORD | -1.22 | 52.68 | 119 | 0.51 | 38 | |
| UK | 561 | ONICH | -5.22 | 56.72 | 15 | 0.31 | 36 | * |
| UK | 8142 | ORIELTON | -4.95 | 51.65 | 60 | 0.40 | 30 | |
| UK | 4522 | OXFORD (L.P.M.S.) | -1.27 | 51.77 | 63 | 0.39 | 37 | |
| UK | 6366 | PAISLEY | -4.43 | 55.85 | 32 | 0.37 | 38 | |
| UK | 9157 | PARKMORE FOREST | -6.12 | 55.02 | 235 | 0.90 | 30 | |
| UK | 1641 | PENICUIK | -3.22 | 55.83 | 185 | 0.61 | 38 | |
| UK | 4643 | PENKRIDGE | -2.10 | 52.70 | 101 | 0.50 | 33 | |
| UK | 8411 | PENMAEN | -4.12 | 51.58 | 87 | 0.36 | 29 | * |
| UK | 6837 | PENWHIRN | -4.92 | 54.98 | 166 | 0.70 | 37 | |
| UK | 8913 | PENZANCE | -5.53 | 50.12 | 19 | 0.23 | 33 | * |
| UK | 4833 | PERSHORE COLL. OF HORTICULTURE | -2.05 | 52.10 | 40 | 0.40 | 38 | |
| UK | 8811 | PLYMOUTH (MOUNT BATTEN) | -4.12 | 50.35 | 27 | 0.27 | 36 | |
| UK | 6989 | POINT OF AYRE | -4.37 | 54.42 | 9 | 0.15 | 34 | * |
| UK | 8785 | POOLE | -1.98 | 50.75 | 5 | 0.12 | 30 | * |
| UK | 434 | POOLEWE | -5.60 | 57.77 | 6 | 0.48 | 31 | |
| UK | 537 | PRABOST | -6.32 | 57.47 | 67 | 0.47 | 30 | |
| UK | 7245 | PRESTON (MOOR PARK) | -2.70 | 53.77 | 33 | 0.30 | 38 | * |
| UK | 4886 | PRESTON WYNNE | -2.65 | 52.12 | 84 | 0.48 | 38 | |
| UK | 6547 | PRESTWICK | -4.58 | 55.50 | 16 | 0.27 | 35 | |
| UK | 8834 | PRINCETOWN | -3.98 | 50.55 | 453 | 1.39 | 14 | |
| UK | 2027 | REDESDALE | -2.27 | 55.25 | 235 | 0.80 | 27 | |
| UK | 8471 | RHOOSE | -3.33 | 51.40 | 65 | 0.27 | 39 | * |
| UK | 7377 | RINGWAY | -2.27 | 53.35 | 75 | 0.32 | 46 | |
| UK | 6921 | RONALDSWAY | -4.63 | 54.08 | 16 | 0.17 | 39 | |
| UK | 6169 | ROTHESAY | -5.07 | 55.83 | 43 | 0.27 | 36 | |
| UK | 4495 | RUGBY | -1.25 | 52.37 | 117 | 0.61 | 26 | |
| UK | 4757 | SHAWBURY | -2.67 | 52.80 | 72 | 0.43 | 40 | |
| UK | 4061 | SHEFFIELD (LPMS) | -1.48 | 53.38 | 131 | 0.73 | 38 | |
| UK | 3671 | SHOEBURYNESS | 0.82 | 51.53 | 2 | 0.36 | 25 | |
| UK | 2295 | SILPHO MOOR | -0.52 | 54.33 | 203 | 0.82 | 27 | |
| UK | 3454 | SILSOE | -0.42 | 52.02 | 59 | 0.40 | 30 | |
| UK | 2494 | SKEGNESS | 0.35 | 53.15 | 5 | 0.34 | 33 | * |
| UK | 8851 | SLAPTON | -3.67 | 50.28 | 32 | 0.39 | 35 | |
| UK | 5670 | SOUTHSEA | -1.10 | 50.80 | 2 | 0.37 | 37 | |
| UK | 8957 | ST MAWGAN | -5.00 | 50.43 | 103 | 0.23 | 37 | |
| UK | 1789 | ST. ABBS HEAD | -2.13 | 55.92 | 75 | 0.15 | 17 | * |
| UK | 1823 | STANHOPE FARM | -3.40 | 55.55 | 226 | 0.51 | 32 | |
| UK | 3626 | STANSTED | 0.22 | 51.88 | 101 | 0.37 | 39 | |
| UK | 4636 | STONE | -2.18 | 52.88 | 107 | 0.41 | 32 | |
| UK | 9268 | STORMONT CASTLE | -5.80 | 54.58 | 56 | 0.52 | 38 | |
| UK | 425 | STORNOWAY | -6.32 | 58.22 | 15 | 0.29 | 40 | |
| UK | 4432 | STRATFORD-UPON-AVON | -1.77 | 52.18 | 49 | 0.37 | 38 | |
| UK | 4201 | SUTTON BONINGTON | -1.25 | 52.83 | 48 | 0.46 | 19 | * |
| UK | 3007 | TERRINGTON ST CLEMENT | 0.30 | 52.75 | 2 | 0.21 | 38 | |
| UK | 6772 | THREAVE | -3.95 | 54.93 | 73 | 0.56 | 36 | |
| UK | 6007 | TIREE | -6.88 | 56.50 | 9 | 0.13 | 40 | |
| UK | 8864 | TORBAY (TORQUAY) | -3.53 | 50.47 | 15 | 0.27 | 38 | |
| UK | 8076 | TRAWSCOED | -3.95 | 52.33 | 63 | 0.48 | 32 | * |
| UK | 7824 | TRAWSFYNYDD | -3.93 | 52.93 | 193 | 0.47 | 34 | |
| UK | 1634 | TURNHOUSE | -3.35 | 55.95 | 35 | 0.39 | 39 | |
| UK | 2091 | TYNEMOUTH | -1.42 | 55.02 | 30 | 0.29 | 39 | |
| UK | 5874 | UPAVON | -1.77 | 51.30 | 179 | 0.39 | 32 | |
| UK | 8555 | USK | -2.92 | 51.70 | 21 | 0.66 | 21 | |
| UK | 7511 | VALLEY/HOLYHEAD | -4.53 | 53.25 | 10 | 0.16 | 34 | |
| UK | 2423 | WADDINGTON | -0.52 | 53.17 | 68 | 0.50 | 46 | |

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|---|---|---|---|---|---|---|---|---|
| UK | 5558 | WALLINGFORD | -1.10 | 51.62 | 48 | 0.39 | 33 | |
| UK | 4662 | WALSALL | -1.92 | 52.62 | 163 | 0.59 | 36 | |
| UK | 4237 | WARSOP | -1.12 | 53.22 | 46 | 0.47 | 24 | |
| UK | 4206 | WATNALL (NOTTINGHAM) | -1.25 | 53.00 | 117 | 0.53 | 38 | |
| UK | 3144 | WATTISHAM | 0.97 | 52.12 | 89 | 0.33 | 38 | * |
| UK | 1838 | WEST LINTON | -3.35 | 55.75 | 244 | 0.58 | 36 | |
| UK | 2299 | WHITBY COASTGUARD | -0.60 | 54.48 | 60 | 0.25 | 19 | |
| UK | 1747 | WHITCHESTER | -2.45 | 55.82 | 255 | 1.15 | 27 | |
| UK | 1379 | WHITEHILLOCKS | -2.90 | 56.92 | 258 | 1.18 | 34 | |
| UK | 293 | WICK | -3.08 | 58.45 | 36 | 0.53 | 37 | |
| UK | 5771 | WIGHT VENTNOR PARK | -1.22 | 50.60 | 60 | 0.21 | 20 | |
| UK | 8752 | WINFRITH | -2.25 | 50.67 | 26 | 0.26 | 29 | * |
| UK | 5237 | WISLEY | -0.47 | 51.32 | 32 | 0.41 | 37 | |
| UK | 3414 | WOBURN | -0.58 | 52.02 | 89 | 0.40 | 38 | |
| UK | 9185 | WOODBURN NORTH | -5.88 | 54.75 | 217 | 0.64 | 16 | |
| UK | 3644 | WRITTLE | 0.43 | 51.73 | 35 | 0.30 | 38 | * |
| UK | 5375 | WYE | 0.95 | 51.18 | 56 | 0.45 | 38 | |
| UK | 3374 | WYTON | -0.12 | 52.35 | 40 | 0.27 | 25 | |
| UK | 8673 | YEOVILTON | -2.63 | 51.00 | 18 | 0.46 | 33 | |

*A4.2 European Exceptional Snow Loads Data Set*

Below is listed the whole European exceptional snow data set, with the exceptional value (as defined in section 4.3.5), its date of occurrence and the characteristic values calculated with and without taking into account the maximum value of the data set.

*Table A4.2 European Exceptional Snow Loads Data*

| Country | Stat ID | Station Name | Longitude | Latitude | Altitude | Total No. Winters | *Total No of Snow Winters | Max Snow Load kN/m2 | Date of Max Load | Calculated 50yr Load kN/m2 (inc Max Load) | Calculated 50yr Load kN/m2 (exc Max Load) | k (= Max Load/ 50 yr Load (exc Max) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W Germany | 1055 | NORDERNEY | 7.15 | 53.72 | 11 | *18* | 15 | 1.56 | 22/02/79 | 1.51 | 0.84 | 1.86 |
| W Germany | 1438 | SCHLESWIG | 9.55 | 54.53 | 43 | 33 | 32 | 2.37 | 19/02/79 | 1.60 | 0.93 | 2.55 |
| W Germany | 1459 | HAMBURG-FUHLS | 10.00 | 53.63 | 13 | 33 | 32 | 1.82 | 15/02/79 | 1.23 | 0.71 | 2.56 |
| W Germany | 1473 | BEDERKESA | 8.83 | 53.63 | 27 | *18* | 17 | 1.52 | 16/02/79 | 1.42 | 0.81 | 1.88 |
| W Germany | 1474 | BREMEN | 8.80 | 53.05 | 4 | 32 | 30 | 1.53 | 18/02/79 | 1.05 | 0.59 | 2.59 |
| W Germany | 1478 | CUXHAVEN | 8.70 | 53.87 | 5 | 31 | 24 | 1.48 | 01/03/79 | 1.11 | 0.66 | 2.24 |
| W Germany | 1529 | SOLTAU | 9.83 | 53.00 | 77 | 25 | 25 | 1.26 | 19/02/79 | 1.07 | 0.75 | 1.68 |
| W Germany | 1538 | HANNOVER-LANG | 9.68 | 52.47 | 55 | 33 | 31 | 1.23 | 24/02/79 | 0.90 | 0.61 | 2.02 |
| W Germany | 3810 | KIEL - KRONSHAGEN | 10.10 | 54.33 | 17 | 33 | 31 | 1.78 | 15/02/79 | 1.22 | 0.71 | 2.51 |
| W Germany | 32140 | NORDEN | 7.22 | 53.60 | 2 | *12* | 12 | 1.07 | 19/02/79 | 1.13 | 0.39 | 2.74 |
| W Germany | 48601 | TOSTEDT | 9.72 | 53.28 | 58 | 27 | 26 | 1.47 | 16/02/79 | 1.16 | 0.75 | 1.95 |
| W Germany | 56128 | VISSELHOEVEDE | 9.58 | 52.98 | 58 | 27 | 24 | 1.54 | 17/02/79 | 1.17 | 0.66 | 2.35 |
| E Germany | 3005 | ARKONA | 13.43 | 54.68 | 42 | 44 | 38 | 1.29 | 16/11/65 | 0.88 | 0.63 | 2.03 |
| E Germany | 3038 | SCHWERIN | 11.38 | 53.65 | 59 | 92 | 81 | 1.41 | 07/01/50 | 0.85 | 0.72 | 1.95 |
| E Germany | 3342 | POTSDAM | 13.07 | 52.38 | 81 | 102 | 99 | 1.61 | 06/03/50 | 1.02 | 0.92 | 1.76 |
| Austria | 15310 | MOOSERBODEN | 12.72 | 47.17 | 2036 | 49 | 49 | 21.18 | apr-55 | 14.28 | 11.05 | 1.92 |
| Austria | 1900 | SCHWARZENAU | 15.27 | 48.73 | 500 | 37 | 37 | 3.09 | feb-63 | 2.20 | 1.58 | 1.96 |
| Austria | 13110 | SECKAU | 14.78 | 47.28 | 874 | 50 | 50 | 3.90 | feb-86 | 2.88 | 2.41 | 1.62 |
| Austria | 20021 | VILLACHERALPE | 13.67 | 46.60 | 2140 | 50 | 50 | 25.55 | mar-51 | 16.31 | 12.12 | 2.11 |
| Austria | 16101 | ZELTWEG | 14.78 | 47.20 | 669 | 35 | 35 | 3.66 | feb-86 | 2.80 | 2.12 | 1.72 |
| Italy | Parma 33 | VEDRIANO | 10.45 | 44.52 | 590 | 51 | 38 | 10.20 | feb. 69 | 5.79 | 2.53 | 4.03 |
| Italy | Genova 38 | PONTREMOLI | 9.92 | 44.37 | 215 | 41 | 17 | 1.88 | jan. 85 | 1.56 | 1.12 | 1.67 |
| Italy | Pisa 53 | PISTOIA | 10.95 | 43.93 | 58 | 51 | 26 | 1.30 | jan. 40 | 0.99 | 0.79 | 1.64 |
| Italy | Torino 20 | VERCELLI | 8.40 | 45.33 | 135 | 41 | 21 | 1.13 | jan. 54 | 0.91 | 0.69 | 1.64 |
| Italy | Cagliari 96 | SORGONO | 9.13 | 40.03 | 687 | *14* | 5 | 0.50 | dec. 52 | 0.73 | 0.29 | 1.72 |
| Italy | Palermo 89 | CACCAMO | 13.70 | 37.93 | 521 | 41 | 18 | 1.88 | jan. 68 | 1.58 | 1.21 | 1.55 |
| Italy | Roma 59 | ORVIETO | 12.02 | 42.72 | 315 | 31 | 3 | 0.55 | jan. 65 | 0.73? | 0.24 | 2.32 |
| Italy | Palermo 92 | BIVONA | 13.47 | 37.62 | 503 | 41 | 8 | 0.68 | jan. 68 | 0.60 | 0.20 | 3.33 |

| Country | Stat ID | Station Name | Longitude | Latitude | Altitude | Total No. Winters | *Total No. of Snow Winters | Max Snow Load kN/m2 | Date of Max Load | Calculated 50yr Load kN/m2 (inc Max Load) | Calculated 50yr Load kN/m2 (exc Max Load) | k (= Max Load/ 50 yr Load (exc Max) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| France | 33281001 | BORDEAUX | -0.70 | 44.83 | 61 | 44 | 20 | 0.74 | 1956 | 0.59 | 0.21 | 3.57 |
| France | 59183001 | DUNKERQUE | 2.33 | 51.05 | 23 | 44 | 30 | 0.34 | 1970 | 0.31 | 0.21 | 1.64 |
| France | 66136001 | PERPIGNAN | 2.87 | 42.73 | 48 | 42 | 19 | 1.25 | 1954 | 1.04 | 0.56 | 2.24 |
| France | 64549001 | PAU | -0.42 | 43.38 | 185 | 44 | 30 | 0.52 | 1987 | 0.40 | 0.26 | 1.94 |
| France | 78621001 | TRAPPES | 2.02 | 48.77 | 168 | 48 | 45 | 0.81 | *1946* | 0.56 | 0.37 | 2.20 |
| France | 38384001 | GRENOBLE | 5.33 | 45.37 | 386 | 25 | 25 | 1.09 | 1990 | 1.02 | 0.66 | 1.64 |
| France | 608801 | NICE | 7.20 | 43.65 | 10 | 42 | 9 | 0.56 | **1985** | 0.53 | 0.15 | 3.80 |
| France | 44103001 | ST NAZAIRE | -2.17 | 47.32 | 4 | 35 | 20 | 0.29 | 1986 | 0.25 | 0.10 | 2.86 |
| France | 29216001 | QUIMPER | -4.17 | 47.97 | 94 | 25 | 14 | 0.41 | 1990 | 0.40 | 0.19 | 2.15 |
| France | 13055004 | CAP POMEGUES | 5.30 | 43.27 | 73 | 42 | 4 | 0.25 | 1963 | 0.24 | 0.04 | 5.67 |
| France | 40046001 | BISCAROSSE | -0.70 | 44.83 | 39 | 36 | 14 | 0.82 | 1956 | 0.75 | 0.29 | 2.80 |
| France | 20107001 | CAP CORSE | 9.37 | 43.00 | 111 | 41 | 4 | 0.44 | **1985** | 0.43 | 0.21 | 2.14 |
| France | 612101 | CAP FERRAT | 7.33 | 43.68 | 143 | 42 | 3 | 0.15 | 1963 | 0.13 | 0.07 | 2.00 |
| France | 33236002 | CAP FERRET | -1.25 | 44.63 | 10 | 40 | 12 | 1.18 | 1956 | 1.06 | 0.31 | 3.81 |
| France | 33529001 | CAZAUX | -1.13 | 44.53 | 33 | 43 | 22 | 0.59 | 1956 | 0.47 | 0.19 | 3.08 |
| France | 83069001 | HYERES | 6.15 | 43.10 | 4 | 27 | 4 | 0.15 | **1985** | 0.18 | 0.12 | 1.25 |
| France | 29155001 | ILE-d'OUESSANT | -5.12 | 48.47 | 32 | 41 | 12 | 0.24 | 1956 | 0.21 | 0.13 | 1.78 |
| France | 56069001 | ILE - de- GROIX | -3.50 | 47.65 | 54 | 44 | 4 | 0.15 | 1962 | 0.13 | 0.07 | 2.00 |
| France | 95277001 | LE BOURGET | 2.45 | 48.97 | 65 | 47 | 41 | 0.59 | *1946* | 0.41 | 0.25 | 2.35 |
| Belgium | 479 | KLEINE BROGEL | 5.28 | 51.10 | 64 | *12* | 10 | 1.03 | *1990* | 1.07 | 0.60 | 1.71 |
| Greece | 64 | ATROXORI | 21.28 | 39.27 | 560 | 24 | 24 | 2.01 | *1940* | 1.67 | 1.19 | 1.69 |
| Greece | 265 | AXLADIA | 24.02 | 41.40 | 600 | 22 | 22 | 1.28 | *1940* | 1.03 | 0.62 | 2.04 |
| Greece | 199 | METAXAS | 21.97 | 40.08 | 1040 | 23 | 23 | 1.34 | *1940* | 1.14 | 0.84 | 1.60 |
| Portugal | 82 | GUARDA | -7.27 | 40.53 | 1019 | 51 | 20 | 1.47 | 10/02/78 | 0.9559 | 0.3402 | 4.33 |
| Portugal | 75 | VISEU | -7.90 | 40.67 | 443 | 51 | 7 | 1.55 | 29/12/70 | 1.2519 | 0.3748 | 4.12 |
| Portugal | 212 | ALVEGA | -8.05 | 39.47 | 51 | 42 | 3 | 0.74 | 18/01/86 | 0.8126 | 0.2045 | 3.60 |
| Portugal | 44 | CARRAZEDA DE ANSIAENS | -7.30 | 41.23 | 715 | *14* | 12 | 0.74 | 06/01/94 | 0.7786 | 0.2328 | 3.16 |
| Portugal | 70 | FIGUEIRA DE CASTELO | -6.90 | 40.87 | 635 | 43 | 14 | 0.74 | 19/10/85 | 0.5753 | 0.2598 | 2.83 |
| Portugal | 32 | MIRANDELA | -7.20 | 41.52 | 250 | 59 | 3 | 0.20 | 15/01/87 | 0.1750 | 0.0705 | 2.78 |
| Portugal | 35 | MIRANDA DO DOURO | -6.28 | 41.52 | 693 | 52 | 15 | 0.41 | 02/01/72 | 0.2982 | 0.1642 | 2.49 |
| Portugal | 23 | BRAGA/POSTO AGRARIO | -8.40 | 41.55 | 190 | 54 | 4 | 0.13 | 15/01/87 | 0.1140 | 0.0549 | 2.34 |
| Portugal | 37 | MOGADOURO | -6.73 | 41.33 | 644 | *14* | 10 | 0.74 | 06/01/94 | 0.8884 | 0.3996 | 2.17 |
| Portugal | 61 | BIGORNE | -7.88 | 41.00 | 975 | 36 | 10 | 1.47 | 27/12/84 | 1.3617 | 0.7483 | 1.97 |
| Portugal | 52 | REGUA | -7.80 | 41.17 | 65 | 53 | 3 | 0.07 | 28/12/70 | 0.0688 | 0.0386 | 1.90 |
| Portugal | 571 | PORTALEGRE | -7.42 | 39.28 | 597 | 54 | 10 | 0.37 | 12/02/83 | 0.3034 | 0.2270 | 1.62 |
| Spain | 2440 | ALDEADEL REY NIÑO'DEHESA GU-TE | -4.70 | 40.57 | 1160 | 62 | 53 | 1.49 | 21/01/96 | 0.8523 | 0.6169 | 2.42 |
| Spain | 7219 | ALHAMA HUERTA ESPUÑA | -1.52 | 37.85 | 760 | 64 | 13 | 0.89 | 19/01/57 | 0.6257 | 0.3944 | 2.25 |

| Country | Stat ID | Station Name | Longitude | Latitude | Altitude | Total No. Winters | *Total No. of Snow Winters | Max Snow Load kN/m2 | Date of Max Load | Calculated 50yr Load kN/m2 (inc Max Load) | Calculated 50yr Load kN/m2 (exc Max Load) | k (= Max Load/ 50 yr Load (exc Max) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Spain | 4563 | ALMONASTERLA REAL | -6.79 | 37.87 | 610 | 45 | 7 | 0.34 | 15/12/75 | 0.3019 | 0.1090 | 3.15 |
| Spain | 9491 | ALMUDEVAR-GRANJA CHE | -0.59 | 42.02 | 390 | 59 | 20 | 0.55 | 17/01/46 | 0.3853 | 0.2702 | 2.03 |
| Spain | 4524 | AROCHE | -6.95 | 37.94 | 421 | 48 | 3 | 0.06 | 20/01/52 | 0.0623 | 0.0416 | 1.51 |
| Spain | 72 | BEGAS | 1.93 | 41.33 | 360 | 39 | 12 | 0.74 | 24/12/62 | 0.6476 | 0.4081 | 1.80 |
| Spain | 7155 | BLANCA CASAFORESTAL | -1.32 | 38.18 | 240 | 48 | 6 | 0.43 | 18/12/46 | 0.3857 | 0.2231 | 1.91 |
| Spain | 4503 | CABEZA LA VACA | -6.42 | 38.09 | 759 | 56 | 23 | 0.65 | 11/02/51 | 0.4301 | 0.2611 | 2.47 |
| Spain | 3469 | CACERESCIUDAD | -6.37 | 39.48 | 459 | 77 | 5 | 0.07 | 19/01/46 | 0.0513 | 0.0381 | 2.04 |
| Spain | 4155A | CALZADACALATRAVA'COOPER.' | -3.77 | 38.70 | 645 | 41 | 18 | 0.64 | 28/12/70 | 0.4649 | 0.1904 | 3.35 |
| Spain | 9246 | CARCASTILLOLA OLIVA | -1.46 | 42.37 | 340 | 61 | 37 | 0.58 | 15/01/45 | 0.3815 | 0.3000 | 1.92 |
| Spain | 4037 | DAIMIEL'I.L.' | -3.60 | 39.07 | 615 | 40 | 14 | 0.74 | 16/01/57 | 0.6184 | 0.3874 | 1.90 |
| Spain | 9833 | EL GRADO'EMBALSE' | 0.23 | 42.15 | 425 | 53 | 12 | 0.72 | 04/01/79 | 0.5369 | 0.2698 | 2.65 |
| Spain | 7109 | EMBALSE DE CAMARILLAS | -1.64 | 38.34 | 397 | 60 | 7 | 0.57 | 08/02/42 | 0.4639 | 0.3390 | 1.69 |
| Spain | 8290 | ENGUERALASARENAS | -0.80 | 38.92 | 826 | 54 | 14 | 0.77 | 22/01/50 | 0.5881 | 0.3989 | 1.92 |
| Spain | 9432 | EPILA'MONTARRON' | -1.29 | 41.60 | 336 | 33 | 18 | 0.54 | 06/12/50 | 0.4871 | 0.3271 | 1.65 |
| Spain | 9704 | GABETCENTRAL | 0.89 | 42.10 | 380 | 48 | 34 | 1.43 | 24/02/44 | 1.0680 | 0.8807 | 1.63 |
| Spain | 3384 | GARVIN DE LA JARA'EL PLANCHON' | -5.36 | 39.69 | 690 | 30 | 15 | 1.09 | 19/02/92 | 0.9772 | 0.5928 | 1.84 |
| Spain | 5514 | GRANADA/BASE AEREA | -3.63 | 37.14 | 680 | 47 | 8 | 0.39 | 28/12/70 | 0.3400 | 0.2106 | 1.84 |
| Spain | 4511 | JEREZDELOS CABALLEROS | -6.77 | 38.32 | 492 | 70 | 7 | 0.11 | 27/12/50 | 0.0829 | 0.0589 | 2.07 |
| Spain | 6258 | LANJARON | -3.49 | 36.92 | 710 | 50 | 9 | 0.58 | 19/01/57 | 0.4769 | 0.2525 | 2.30 |
| Spain | 4020 | LLANOS DELCAUDILLO | -3.37 | 39.11 | 650 | 34 | 14 | 0.66 | 11/03/75 | 0.5766 | 0.3430 | 1.92 |
| Spain | 9170 | LOGROÑO-AGONCILLO | -2.33 | 42.45 | 352 | 49 | 14 | 0.30 | 10/12/90 | 0.2417 | 0.1760 | 1.68 |
| Spain | 7208 | LORCACH SEGURA | -1.70 | 37.67 | 335 | 62 | 6 | 0.38 | 18/12/46 | 0.2860 | 0.1491 | 2.52 |
| Spain | 7209 | LORCAEST CEREALICULTURA | -1.69 | 37.65 | 320 | 43 | 4 | 0.49 | 13/04/58 | 0.5018 | 0.2651 | 1.85 |
| Spain | 9941 | MAZALEON | 0.10 | 41.05 | 359 | 33 | 13 | 0.69 | 06/01/77 | 0.6201 | 0.3657 | 1.88 |
| Spain | 2604 | MEDINA DE RIOSECO | -5.04 | 41.88 | 749 | 54 | 48 | 0.33 | 12/01/87 | 0.2359 | 0.2051 | 1.61 |
| Spain | 7065 | MOLINICOS | -2.24 | 38.46 | 823 | 55 | 25 | 0.82 | 14/01/80 | 0.6056 | 0.4727 | 1.74 |
| Spain | 1679A | MONFORTEDELEMOS 'E.AGRICOLA' | -7.51 | 42.52 | 963 | 42 | 5 | 0.13 | 11/02/83 | 0.1284 | 0.0750 | 1.70 |
| Spain | 392 | OLOT'ESTACION DEPURADORA' | 2.49 | 42.20 | 380 | 34 | 10 | 1.41 | 23/01/92 | 1.3740 | 0.8915 | 1.58 |
| Spain | 3422 | PANTANOROSARITO | -5.32 | 40.11 | 334 | 36 | 3 | 0.18 | 10/03/71 | 0.2182 | 0.0560 | 3.24 |
| Spain | 7211 | PUERTO LUMBRERAS CH SEGURA | -1.81 | 37.56 | 465 | 57 | 9 | 0.55 | 18/01/57 | 0.4216 | 0.2283 | 2.43 |
| Spain | 2377 | RIBASDECAMPOS | -4.52 | 42.15 | 777 | 51 | 38 | 0.54 | 12/11/84 | 0.3720 | 0.2906 | 1.85 |

| | | 'VIVERO' | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Country** | **Stat ID** | **Station Name** | **Longitude** | **Latitude** | **Altitude** | **Total No. Winters** | ***Total No. of Snow Winters** | **Max Snow Load kN/m2** | **Date of Max Load** | **Calculated 50yr Load kN/m2 (inc Max Load)** | **Calculated 50yr Load kN/m2 (exc Max Load)** | **k (= Max Load/ 50 yr Load (exc Max)** |
| Spain | 3082 | SALTODEBOLARQUE | -2.83 | 40.36 | 620 | 36 | 27 | 0.37 | 04/04/88 | 0.3004 | 0.2416 | 1.51 |
| Spain | 173 | SANTAMARGARITA DEMOMBUY | 1.59 | 41.55 | 400 | 44 | 8 | 2.63 | 24/02/44 | 2.3264 | 1.1939 | 2.20 |
| Spain | 1428 | SANTIAGOCOMPOSTELA 'LABACOLLA' | -8.42 | 42.89 | 364 | 45 | 11 | 0.54 | 05/02/63 | 0.4650 | 0.3152 | 1.71 |
| Spain | 9174 | SARTAGUDA | -2.05 | 42.36 | 310 | 73 | 28 | 0.98 | 16/01/41 | 0.5715 | 0.3529 | 2.78 |
| Spain | 7081 | SOCOVOS | -1.98 | 38.33 | 750 | 56 | 21 | 1.16 | 24/12/44 | 0.8783 | 0.6914 | 1.68 |
| Spain | 4097 | SOCUELLAMOS | -2.79 | 39.28 | 674 | 33 | 15 | 0.45 | 28/12/70 | 0.4090 | 0.2890 | 1.56 |
| Spain | 132 | SOLSONA | 1.52 | 42.00 | 677 | 43 | 21 | 0.84 | 04/02/59 | 0.6858 | 0.5936 | 1.58 |
| Spain | 9708 | TERRADETS 'EMBALSE' | 0.89 | 42.04 | 399 | 49 | 29 | 1.33 | 24/02/44 | 0.8806 | 0.5501 | 2.43 |
| Spain | 9971 | TIVISSA | 0.73 | 41.04 | 310 | 80 | 25 | 1.27 | 11/01/41 | 0.9194 | 0.8241 | 1.54 |
| Spain | 7214 | TOTANA ALQUERIAS | -1.57 | 37.83 | 799 | 62 | 13 | 0.81 | 20/01/57 | 0.5438 | 0.2225 | 3.66 |
| Spain | 7217 | TOTANA PRESA DEL PARETON | -1.45 | 37.72 | 200 | 65 | 5 | 0.47 | 18/01/57 | 0.3694 | 0.2944 | 1.59 |
| Spain | 4331 | VILLANUEVADE LA SERENA | -5.79 | 38.97 | 294 | 43 | 5 | 0.11 | 03/01/71 | 0.1062 | 0.0526 | 2.05 |
| Spain | 7061 | YESTEC.H.S. | -2.31 | 38.37 | 900 | 54 | 28 | 0.98 | 19/12/46 | 0.7638 | 0.6522 | 1.51 |
| Spain | 7206 | ZARZADILLADE TOTANA | -1.70 | 37.87 | 861 | 50 | 11 | 0.71 | 13/01/80 | 0.5699 | 0.4378 | 1.62 |
| UK | 329 | CAPE WRATH | -5.00 | 58.62 | 112 | 39 | 100 | 0.55 | dec-95 | 0.3654 | 0.2854 | 1.92 |
| UK | 561 | ONICH | -5.22 | 56.72 | 15 | 36 | 130 | 0.49 | jan-84 | 0.3638 | 0.3089 | 1.57 |
| UK | 1467 | FASKALLY | -3.77 | 56.72 | 94 | 38 | 238 | 1.02 | jan-72 | 0.6461 | 0.5332 | 1.91 |
| UK | 1516 | KINROSS | -3.42 | 56.22 | 116 | *18* | 65 | 0.64 | jan-87 | 0.7088 | 0.3921 | 1.64 |
| UK | 1699 | DUNBAR | -2.52 | 56.00 | 23 | 37 | 46 | 0.39 | nov-73 | 0.3058 | 0.2352 | 1.67 |
| UK | 1789 | ST. ABBS HEAD | -2.13 | 55.92 | 75 | *17* | 24 | 0.28 | feb-78 | 0.2603 | 0.1490 | 1.89 |
| UK | 1989 | KELSO | -2.42 | 55.60 | 34 | 30 | 108 | 1.41 | feb-72 | 0.8907 | 0.5159 | 2.74 |
| UK | 2494 | SKEGNESS | 0.35 | 53.15 | 5 | 33 | 48 | 0.56 | dec-68 | 0.4454 | 0.3403 | 1.66 |
| UK | 3144 | WATTISHAM | 0.97 | 52.12 | 89 | 38 | 104 | 0.52 | feb-91 | 0.3921 | 0.3293 | 1.57 |
| UK | 3644 | WRITTLE | 0.43 | 51.73 | 35 | 38 | 75 | 0.58 | feb-91 | 0.3983 | 0.3011 | 1.93 |
| UK | 3691 | CLACTON-ON-SEA | 1.15 | 51.78 | 16 | 36 | 48 | 0.55 | feb-91 | 0.4422 | 0.3497 | 1.57 |
| UK | 4088 | ASKHAM BRYAN | -1.17 | 53.92 | 32 | 38 | 126 | 0.52 | jan-63 | 0.3811 | 0.3215 | 1.61 |
| UK | 4201 | SUTTON BONINGTON | -1.25 | 52.83 | 48 | *19* | 48 | 0.94 | jan-87 | 0.7465 | 0.4579 | 2.05 |
| UK | 4504 | BRIZE NORTON | -1.58 | 51.75 | 81 | 29 | 65 | 0.47 | jan-82 | 0.3623 | 0.2744 | 1.71 |
| UK | 5336 | EAST MALLING | 0.45 | 51.28 | 33 | 37 | 77 | 0.82 | dec-62 | 0.5473 | 0.3199 | 2.55 |
| UK | 5411 | BOGNOR REGIS | -0.68 | 50.78 | 7 | 33 | 31 | 0.36 | dec-62 | 0.2870 | 0.2039 | 1.77 |
| UK | 5471 | EASTBOURNE | 0.28 | 50.77 | 7 | 20 | 23 | 0.38 | jan-87 | 0.3544 | 0.2258 | 1.67 |
| UK | 5480 | BEXHILL | 0.47 | 50.83 | 4 | 37 | 42 | 0.78 | dec-62 | 0.6336 | 0.3168 | 2.48 |
| UK | 5612 | CHRISTCHURCH | -1.78 | 50.73 | 4 | 29 | 32 | 0.47 | feb-78 | 0.3842 | 0.2635 | 1.79 |
| UK | 5631 | EVERTON | -1.57 | 50.73 | 16 | 38 | 35 | 0.55 | jan-82 | 0.4422 | 0.3340 | 1.64 |
| UK | 5848 | LYNEHAM | -1.98 | 51.50 | 145 | 40 | 98 | 0.55 | jan-63 | 0.3921 | 0.3199 | 1.72 |

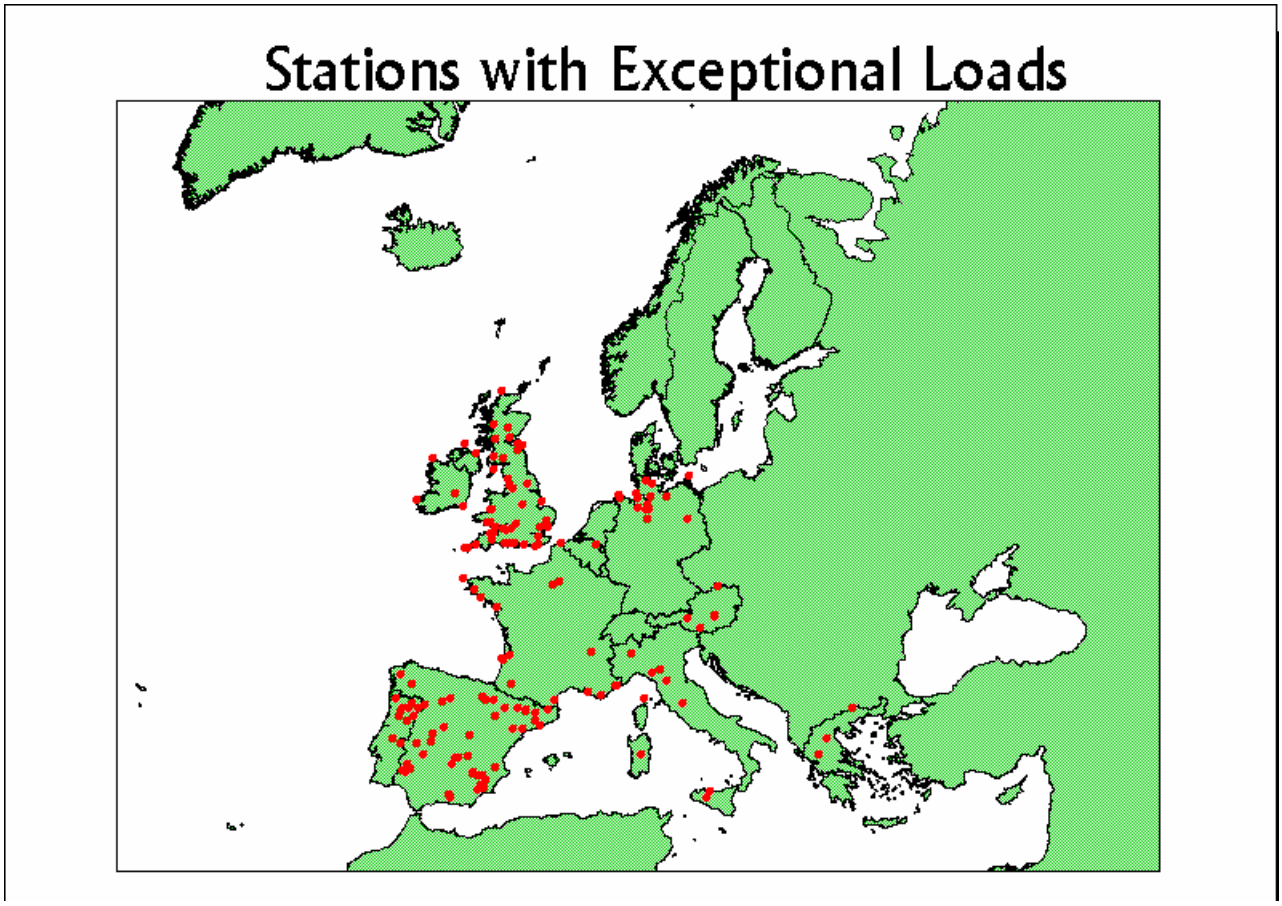
| UK | 6214 | HELENSBURGH | -4.72 | 56.02 | 96 | 38 | 187 | 0.93 | jan-84 | 0.6853 | 0.5943 | 1.56 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Country** | **Stat ID** | **Station Name** | **Longitude** | **Latitude** | **Altitude** | **Total No. Winters** | ***Total No. of Snow Winters** | **Max Snow Load kN/m2** | **Date of Max Load** | **Calculated 50yr Load kN/m2 (inc Max Load)** | **Calculated 50yr Load kN/m2 (exc Max Load)** | **k (= Max Load/ 50 yr Load (exc Max)** |
| UK | 6641 | DUMFRIES | -3.60 | 55.07 | 49 | 27 | 74 | 0.94 | feb-96 | 0.6179 | 0.3905 | 2.41 |
| UK | 6704 | BARGRENNAN | -4.57 | 55.07 | 110 | 37 | 131 | 0.72 | jan-84 | 0.5504 | 0.4705 | 1.53 |
| UK | 6989 | POINT OF AYRE | -4.37 | 54.42 | 9 | 34 | 9 | 0.31 | feb-58 | 0.2838 | 0.1521 | 2.06 |
| UK | 7239 | MORECAMBE | -2.87 | 54.07 | 7 | *19* | 29 | 0.30 | feb-96 | 0.2446 | 0.1208 | 2.47 |
| UK | 7245 | PRESTON (MOOR PARK) | -2.70 | 53.77 | 33 | 38 | 65 | 0.47 | dec-81 | 0.3654 | 0.2964 | 1.59 |
| UK | 7263 | BOLTON | -2.42 | 53.60 | 107 | 24 | 76 | 1.02 | jan-84 | 0.7716 | 0.5614 | 1.82 |
| UK | 8076 | TRAWSCOED | -3.95 | 52.33 | 63 | 32 | 27 | 0.78 | jan-79 | 0.6649 | 0.4783 | 1.64 |
| UK | 8086 | CWMSTYTH | -3.82 | 52.35 | 301 | 20 | 55 | 1.32 | feb-63 | 1.0178 | 0.4736 | 2.78 |
| UK | 8411 | PENMAEN | -4.12 | 51.58 | 87 | 29 | 29 | 0.94 | jan-82 | 0.6869 | 0.3560 | 2.64 |
| UK | 8424 | NEATH | -3.85 | 51.65 | 62 | 33 | 17 | 0.63 | jan-82 | 0.5112 | 0.2933 | 2.14 |
| UK | 8471 | RHOOSE | -3.33 | 51.40 | 65 | 39 | 57 | 0.61 | feb-78 | 0.4579 | 0.2697 | 2.27 |
| UK | 8603 | HAWKRIDGE | -3.60 | 51.08 | 314 | 34 | 116 | 0.97 | feb-78 | 0.7527 | 0.6336 | 1.53 |
| UK | 8633 | NETTLECOMBE | -3.35 | 51.13 | 96 | 28 | 35 | 0.94 | feb-78 | 0.7386 | 0.4830 | 1.95 |
| UK | 8678 | LONG ASHTON | -2.67 | 51.43 | 51 | 29 | 38 | 0.60 | jan-63 | 0.4689 | 0.2290 | 2.60 |
| UK | 8697 | BATH | -2.37 | 51.37 | 118 | 38 | 55 | 0.83 | jan-82 | 0.5159 | 0.3121 | 2.66 |
| UK | 8752 | WINFRITH | -2.25 | 50.67 | 26 | 29 | 20 | 0.63 | feb-78 | 0.5003 | 0.2635 | 2.38 |
| UK | 8785 | POOLE | -1.98 | 50.75 | 5 | 30 | 21 | 0.47 | feb-78 | 0.3419 | 0.1239 | 3.80 |
| UK | 8884 | EXETER | -3.42 | 50.73 | 32 | 34 | 32 | 0.50 | feb-78 | 0.4328 | 0.3309 | 1.52 |
| UK | 8913 | PENZANCE | -5.53 | 50.12 | 19 | 33 | 19 | 0.47 | jan-87 | 0.3811 | 0.2258 | 2.08 |
| UK | 8922 | CULDROSE | -5.25 | 50.08 | 78 | 33 | 17 | 0.47 | jan-87 | 0.3921 | 0.2337 | 2.01 |
| UK | 8971 | FOWEY | -4.63 | 50.33 | 75 | 32 | 26 | 0.31 | jan-85 | 0.2478 | 0.1600 | 1.96 |
| N. Ireland | 9147 | ALTNAHINCH FILTERS | -6.25 | 55.05 | 213 | 31 | 200 | 0.96 | dec-67 | 0.7041 | 0.5959 | 1.61 |
| Eire | 1 | MALIN HEAD | -7.39 | 55.42 | 27 | 41 | 40 | 0.60 | jan-58 | 0.3340 | 0.1208 | 4.94 |
| Eire | 2 | VALENTIA | -10.34 | 52.00 | 12 | 58 | 16 | 0.19 | jan-58 | 0.1317 | 0.0643 | 2.93 |
| Eire | 6 | BELMULLET | -10.00 | 54.33 | 11 | 39 | 34 | 0.27 | jan-58 | 0.1772 | 0.1019 | 2.62 |
| Eire | 8 | ROSSLARE | -6.33 | 52.25 | 23 | 37 | 20 | 0.28 | jan-85 | 0.2431 | 0.1725 | 1.64 |
| Eire | 11 | KILKENNY | -7.29 | 52.80 | 66 | 40 | 59 | 0.28 | feb-62 | 0.2195 | 0.1772 | 1.59 |

** For UK and Eire stations the entry in this column is the total number of snow events that have occurred in the recording period. The average number of events per year is obtained by dividing this number by the total number of winters (in the adjacent column to the left). Where this is less than 1 snowless winters have occurred. For example Valentia (Eire) has 16 events in 58 years, therefore the average number of events per year is 0.28 or approximately 1 event in 4 years or 14 snow years in 58. This allows comparison with those stations that use annual maxima for their data processing.*

*A4.3 Location of stations where exceptional values have been encountered*

The following figure illustrates the location of the European climatic stations where exceptional snow loads values have been encountered.

*Figure A4.1 Location of climatic station with exceptional snow loads*



## A5 GIS Tools in Data Handling / Mapping

The main GIS tool used for integrating, managing and mapping the snow load data from the project participants was ARC-VIEW (ESRI inc.[18]). This provides facilities for importing the tabular data and displaying them on maps, interrogating them via map or table, identifying and editing obvious errors, and printing with legends etc. The snow load data can also be superimposed on different background maps, available from the Commission's EUROSTAT/GISCO database, which includes in particular layers for the national and regional boundaries, major cities, rivers and lakes.

The associated module SPATIAL ANALYST (ESRI inc.[18]) provided additional facilities for handling gridded data, and performing contouring using Inverse Distance Weighting and Splines.

A grid of altitude data was obtained from the U.S. EROS data center. This is the European Digital Elevation Model and consists of height values on a grid of 30 sec by 30 sec for the whole of Europe. This corresponds to a spacing of typically 1 km or less, and while this is too detailed for much of this snow load work, grids of reduced resolution were conveniently produced using the ARC-INFO GRID module available at the JRC. This altitude data was essential for converting the map of snow load zones into a grid of actual snow load values.

Snow Load data were delivered in Latitude/Longitude coordinates (decimal degrees). When projected data were required, for display purposes or for working in meteres/kilometres on the ground, then the European Commission's standard projection was used, which is specified as follows:

| | |
|---|---|
| Projection: | Lambert Azimuth |
| Units: | Meters |
| Spheroid: | INT1909 |
| Radius: | 6370997.0000 |
| Longitude centre of projection: | 9.00000 degs. |
| Latitude centre of projection: | 48.00000 degs. |
| False easting: | 0.0 |
| False northing: | 0.0 |

### *A5.1 Methods and tools for Interpolation and Contouring*

Among the different methods for interpolation available for univariate analysis the following were chosen for evaluation:

1. Inverse Distance Weighting (IDW): For this technique the weights of the interpolation function depend only on the distance between the point of interest (x0, y0) and the neighbouring sampling points (xj, yj) for j = 1, …, n. This represents a fast and straightforward approach to interpolation, which has been used for climatic variables. One major drawback of this technique is that when two or more sampling points are close to each other the redundant information from these stations are not discriminated against.
2. Kriging: This technique is based on the assumption that points closer together are more likely to be similar and that this spatial relationship can be explored and modelled (Variogram) in order to determine the weights that will be assigned in the linear combination of the data. Also this approach allows discrimination against redundant information. The method has been widely used for the spatial analysis of climatic data but is more time-consuming.

3. Splines: Splines are piecewise polynomial functions, which is to say that they are fitted to a small number of data points exactly, while at the same time ensuring that the joins between one part of the curve and another are continuous. This technique has been used for the analysis of climatic variables, it is faster than Kriging but usually the available software does not allow much control from the part of the user.

The following software tools for interpolation and contouring were evaluated:

First of all the **Spatial Analyst** for ArcView [18], which presents options for IDW and splines. These functions allow only for basic choices by the user and there is no possibility for model validation.
**Surfer** is commercial software [19] that presents options for all three interpolation techniques presented above and allows for the implementation of a model validation but, there is no possibility of modelling the spatial structure in the data.
**Variowin** [20] allows for the exploration and modelling of the spatial structure of the data (Variogram modelling) as a preliminary step for kriging and is excellent in combination with Surfer.
**Geoeas**, which has been developed by the US-EPA [21], is software for Kriging and Cokriging which also allows for variogram modelling. This is the only software evaluated that has an option for multivariate analysis. Geoeas also presents an option for cross validation. This technique is very useful to highlight problematic areas but it should not be used for final model validation.

In addition to these interpolation tools, the spreadsheet **Excel** was used frequently for data manipulation, conversions and calculations, and two curve fitting programmes **Curve Expert** and **Origin** were used for plotting scattergrams and fitting altitude functions.

A typical sequence in the zoning/mapping process would involve the tools as follows:

- Use **Excel** to view data, convert coordinates, check format and errors
- Import to **ARC-VIEW** to view points on map, correct errors, check coverage
- Use **Curve Expert/Origin** for scattergrams/curve fitting (parameter b)
- Use **Excel** to check range of parameter a, and assign zone numbers to stations
- Use **ARC-VIEW/SPATIAL ANALYST** to interpolate the values to a regular grid and plot contours of zone numbers
- Use **ARC-VIEW/SPATIAL ANALYST** to smooth the interpolated values applying a filter.
- Use **ARC-VIEW** for visual inspection of zone map, editing, marking outstanding points
- Use **ARC-VIEW** to print map of zones

Combining zone maps to produce a final map of snow load values would involve:

- Use **SPATIAL ANALYST** (map algebra function) to convert from zones to snow loads using altitude grid
- Merge grids for regions to make European Map of Snow Loads

*A5.2 Evaluation of snow load data*

**Resolution of the information:**
A fundamental aspect in spatial data evaluation is the level of detail. Working mostly with raster data basic information is related to the cell size.
In the present work the grid of altitude data obtained from the U.S. EROS data centre had a resolution of 30 sec by 30 sec for the whole of Europe. This resolution was then reduced to 1 min by 1 min. As most of the analysis was done using projected data with a cell size of 10 Km, the altitude data was converted to this format.
All the analysis was done using this resolution.

**Interpolation method chosen:**
The evaluation of sparse data points requires an interpolation of these values onto a regular grid. After comparison of the three interpolation methods presented above it was decided to use inverse distance weighting for several reasons:
This method is particularly suitable in cases where it is difficult to model the spatial relationship of the data through a variogram analysis. In fact the dishomogeneous and sometimes low sampling density did not allow a modelling of the spatial relationship.
Furthermore there are several problems in data conversion between the different programs evaluated (a major problem for every kind of data analysis) and this method is available in ArcView/Spatial Analyst.
The low sampling density in fact determined the use of a radius of 100 Km in most of the climatic regions, while the adoption of an exponent equal to 2 assures that major weight is assigned to the points closest to the centre of the new cell.

**Data smoothing:**
Data smoothing has been obtained using a mean filter. A mean filter operates on gridded data and replaces the value of a single cell by the average value obtained from the value of the cell and the values of the cells in some specified neighbourhood. In the present work the neighbourhood was a rectangle of 30 Km height and width (i.e. a kernel of 3 * 3  10 Km cells was used). This is a rather small value compared to the radius used for inverse distance weighting (50 - 100 Km) and assures that the smoothing retains the important features of the map.