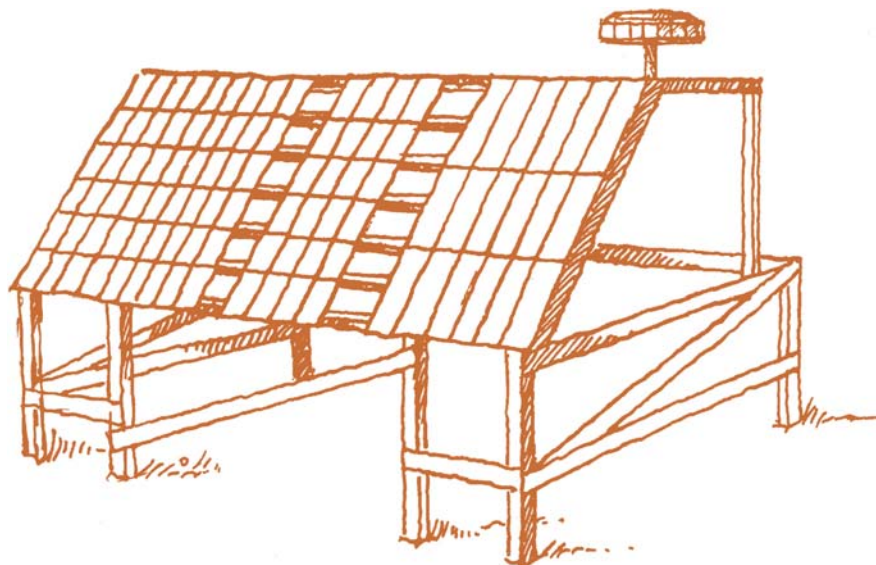


CONVENTION ON LONG-RANGE TRANSBOUNDARY AIR POLLUTION

UN/ECE INTERNATIONAL CO-OPERATIVE PROGRAMME
ON EFFECTS ON MATERIALS, INCLUDING HISTORIC
AND CULTURAL MONUMENTS



Report No. 41:
FINAL ENVIRONMENTAL DATA REPORT
NOVEMBER 1997 TO OCTOBER 2001

JULY 2003

PREPARED BY THE ENVIRONMENTAL SUB-CENTRE



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International Co-operative Programme on Materials, including Historic and Cultural Monuments

**Final environmental data report
November 1997 to October 2001**

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Summary

The UN/ECE international co-operative programme of effects on materials is an international project that has been running for eight years at 39 test sites in 14 countries from 1987 to 1995. A second phase of the project started in 1997 with an adjusted number of test sites and countries participating. In the second phase 30 test sites and 19 countries have participated. During the interim period 1995 to 1997 trend analysis for metal corrosion and exposure of the two materials glass and polymer continued. Norwegian Institute for Air Research has been a sub-centre and responsible for the environmental data storing, reporting and evaluation during the whole programme.

This report presents the environmental measurements for the whole second phase obtained in the ECE-ICP on materials programme, 1997 to 2001. Only the test sites that are included in the second phase of the programme are included in this report. The exposure in most countries started late in October or in November in 1997, and the yearly average values have therefore been calculated from November to October. The monthly values for the four years are reported in Appendix B.

An evaluation of the regularity and quality of the total data base shows that sites belonging to the EMEP net of sites or to national surveillance programmes have the best regularity.

To obtain a good database for dose-response evaluation, it is important to have a wide range in the data for the most important parameters. The data obtained shows that we have a good spread in the data for all important gases as well as for the most important meteorological data.

Earlier comparisons of the yearly values have shown that the SO₂ concentration has been reduced for almost all sites. The trend analysis this time has indicated that the pollution reduction has been smaller in the second phase of the programme. However still it is possible to see a reduction in SO₂ and NO₂ in many of the most polluted sites. No significant changes have been observed for O₃.

International Co-operative Programme on Materials, including Historic and Cultural Monuments

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1 Introduction

Airborne acidifying pollutants are known to be one major cause of corrosion of different materials including the extensive damage that has been observed on historic and cultural monuments. In order to fill some important gaps of knowledge in this field the Executive Body for the Convention on Long-range Transboundary Air Pollution decided to launch an international co-operative programme. The programme was started in September 1987 and has involved exposure at 39 test sites in 12 European countries and in the United States and Canada. The first phase of the exposure programme finished in 1995. However during the eight years where the exposure programme has been carried out, a large change in the pollution situation in Europe has been observed. In the final environmental data report for the period 1987 to 1995 (Henriksen et al., 1997), the same trend has been observed for most of the 39 test sites. The SO₂ concentrations have been drastically reduced while the change in the NO₂ and O₃ levels have been minor. This new pollution situation where the importance of NO₂ and O₃ were in focus, led to a proposal of a second phase of the programme. The new 4 years exposure project was launched in the fall 1997 with redefined environmental measuring programme, a better combination of test sites for field exposure and with several new countries as partners in the programme (Swedish Corrosion Institute, rev. 1993). This report summarises all reported environmental data for the second phase of the co-operative programme.

The aim of the new programme is to perform a quantitative evaluation of the effect of NO_x and other pollutants like ozone and sulphur pollutants in combination with climatic parameters on the atmospheric corrosion of important materials. For this purpose, measurements of gaseous pollutants, precipitation and climate parameters have been initiated at or nearby each test site, together with corrosion evaluation of the exposed test materials at each site.

A Task Force is organising the programme with Sweden as lead country and Swedish Corrosion Institute serving as the Main Research Centre. Sub-centres in different countries have been appointed, each responsible for their own materials group. The materials groups are:

Structural metals:

- Steel and zinc for trend analyses (Sub-centre responsible for evaluation: SVUOM Praha a.s., Prague, Czech Republic),
- Zinc for 4 years of exposure (EMPA Corrosion/Surface Protection, Dübendorf, Switzerland)

- Copper and cast bronze (Bayerisches Landesamt für Denkmalpflege, Munich, Germany).

Stone materials, Portland limestone (Building Research Establishment Ltd., Department of Environment, Waterford, United Kingdom).

Paint coatings, steel with silicon alkyd paint (Norwegian Institute for Air Research, Kjeller, Norway).

Glass materials, Two types of glass M1 and M3 (Institute of Chemistry, Academy of Fine Arts, Vienna, Austria)

Norwegian Institute for Air Research has been the sub-centre for the environmental database through the whole programme.

The exposure programme has fewer materials than in the first phase, mainly because we have to use materials which are sensitive enough for having sufficient reaction within 4 years of exposure.

2 The measuring programme

The measuring programme includes a normal environmental programme and an extended programme, as shown in Table 1.

Table 1: *The measuring programme.*

Components to be measured		
Normal programme	Gas Precipitation Climate	SO ₂ , O ₃ , NO ₂ mm, pH, SO ₄ -S, NO ₃ -N, Cl ⁻ , conductivity Temperature, relative humidity and sun radiation
Extended programme	Gas Precipitation Particulates	HNO ₃ NH ₄ -N, Na, Ca, Mg, K Total amount

The data are to be reported to the environmental sub-centre as monthly mean values, except for sun radiation and mm precipitation, which are reported as the sum. The data are presented as monthly and yearly values for the project period. In this report the mean and total amount values for the different exposure periods are reported.

The quality control of the reported data is the responsibility of the countries and partners that report the data. The environmental sub-centre will control the data reported for outliers and create the joint database. They will perform an evaluation of the data files and look for trends in the data set.

3 Data from the monitoring test sites

The data are sent to the environmental sub-centre as Excel data files on diskette or as e-mail.

All data presented by the environmental sub-centre are given with the same accuracy as in the reporting forms agreed upon. For data series which include values "below the detection limit", these are, by convention, replaced with one half of the reported detection limits when calculating the mean values.

4 Monthly mean concentrations

The average monthly data reported is for the four last years of the second phase November 1997 to October 2001 are given in Appendix B. The participating countries are reporting data on a monthly base and are responsible for the quality control of their own data.

5 Calculation of monthly values

For their own test sites the participants shall calculate the mean values in accordance with the following equations.

- Mean temperature (T_M)

$$T_M = \frac{\sum_1^i T_i}{i}$$

T_i = measured values
 i = number of records
- Mean relative humidity (RH_M)

$$RH_M = \frac{\sum_1^i RH_i}{i}$$
- Sun radiation (sun)

$$sh = \sum_1^i sh_i$$

If sunshine hours are reported as a substitute for sun radiation, sunshine hours shall report the number of hours where the test panels have been exposed to sunlight. A special designed program has been developed for transferring yearly values for sunshine hour to sun radiation.

- Mean gas concentrations G_M

$$G_M = \frac{\sum_1^i G_i}{i}$$

For some sites where complete information of the sampling period exists, another equation is used

$$G_M = \frac{\sum_1^i (n_i \cdot G_i)}{\sum_1^i n_i}$$

$n_i = \text{sampling period}$

- Precipitation (for incomplete data sets, see chapter 6.2)

$$mm = \sum_1^i mm_i$$

- Weighted mean pH (pH_M)

$$pH_M = \frac{\sum_1^i [mm_i \cdot (10^{-pH_i})]}{\sum_1^i mm_i}$$

- Weighted mean values for cations, anions and conductivity (C_M)

$$C_M = \frac{\sum_1^i (mm_i \cdot C_i)}{\sum_1^i mm_i}$$

6 Yearly mean concentrations

6.1 Yearly mean values

All values given for yearly mean values are calculated from the available monthly values. In Appendix A, the available yearly values for all four years of the second phase of the programme are listed.

The calculation of the yearly values follows the procedure as for the monthly data. The quality of the yearly mean values depends on the amount of monthly values available. For the reported yearly values for gases and precipitation ions the following rules has been adopted:

- A yearly mean value for observations including 75% of the monthly values or more is accepted without any remarks
- A yearly mean value including between 50% and 75% of monthly data is accepted with an asterisk (*)
- A yearly value including less than 50% is reported with a (X) and is not recommended to be used for further statistical evaluations.

Some parameters like temperature, relative humidity and gases will have seasonal variations and need a complete set of data. To complete the yearly results estimated values will be introduced in the same way as for sun radiation and amount of precipitation, see chapter 6.2.

6.2 Sun radiation and amount of precipitation

Sun radiation and amount of precipitation are reported as the total sum and must be completed to a full year if the results shall be of any use. Since there are seasonal variations in the climatic factors the use of average values for adjusting the results can be incorrect. To complete the yearly results estimated values might be used. The estimated values can be formed by comparing similar sites, by looking at reported values for other years from the same sites or from meteorological statistics. Only four estimated values are accepted for each parameter. If monthly values are available from the previous years, the missing monthly value is substituted with the mean value from the same month for the available years.

If more than four of the monthly values are missing no yearly value is reported.

7 Results

Environmental data for the ECE-ICP on materials programme has been collected since August 1987. For the first phase 1987 to 1995, data from 39 sites has been collected and reported (Henriksen et al., 1997). For second exposure phase, the period 1997 to 2001, the programme was redefined and the number of sites with reporting data is now 31, since Poland has joined the programme. A list of all the test sites for phase one and two is given in Table 2. Based on the experience from the first phase of the programme the environmental parameters given in Table 1 were selected for the second phase. The main difference between data collected in the first and second phase is that Time of Wetness (TOW) should not be reported, that solar radiation should be reported instead of hours with sun and that ozone should be reported for all sites. It was also decided that all data should be reported to the environmental sub-centre as monthly values. The option of using passive samplers on a monthly base for measuring the gaseous pollutants was also introduced.

Optional particulates and HNO_3 can be reported in this phase of the programme. Particulates are reported for some of the sites but only a few sites have results for the whole period, (site 07, 41 and 49) and HNO_3 for parts of the period for site 37 and 47. The data are reported in Appendix B.

For the analysis the environmental impact on material damages the environmental yearly mean values follow the exposure periods. The environmental data that follows the exposure periods and the yearly mean values created for the period 1997-2001 are presented in Appendix A Table A1 and A2. The start of the second phase was for most test sites in October and November and the yearly values are therefore calculated from the monthly values from November to October next year.

Table A1 that follows the exposure periods has more data than found in Table A2 and in the monthly data reported in Appendix B. To complete as much as possible of the data needed for solar radiation and rain particularly, missing yearly means have been generated as the mean from the available data for other years.

Table 2: List of test sites of exposure programme.

Test site no.	Test site name	Country	Location	Measuring period
1	Prague-Letnany	The Czech Republic	Urban	1987→
2	Kasperske Hory	"	Rural	1987-1995
3	Kopisty	"	Industry	1987→
4	Espoo	Finland	Urban	1987-1995
5	Ähtäri	"	Rural	1987→
6	Helsinki-Vallila	"	Industry	1987-1995
7	Waldhof-Langenbrügge	Federal Republic of Germany	Rural	1987→
8	Aschaffenburg	"	Urban	1987-1995
9	Langenfeld-Reusrath	"	Rural	1987→
10	Bottrop	"	Industry	1987→
11	Essen-Leithe	"	Rural	1987-1995
12	Garmisch-Partenkirchen	"	Rural	1987-1995
13	Rome	Italy	Urban	1987→
14	Casaccia	"	Rural	1987→
15	Milan	"	Urban	1987→
16	Venice	"	Urban	1987→
17	Vlaardingen	The Netherlands	Industry	1987-1995
18	Eibergen	"	Rural	1987-1995
19	Vredepeel	"	Rural	1987-1995
20	Wijnandsrade	"	Rural	1987-1995
21	Oslo	Norway	Urban	1987→
22	Borregaard	"	Industry	1987-1995
23	Birkenes	"	Rural	1987→
24	Stockholm South	Sweden	Urban	1987→
25	Stockholm Centre	"	Urban	1987-1995
26	Aspvreten	"	Rural	1987→
27	Lincoln Cathedral	United Kingdom	Urban	1987→
28	Wells Cathedral	"	Urban	1987-1995
29	Clatteringshaws Loch	"	Rural	1987-1995
30	Stoke Orchard	"	Rural, industry	1987-1995
31	Madrid	Spain	Urban	1987→
32	Bilbao	"	Industry	1987-1995
33	Toledo	"	Rural	1987→
34	Moscow	Russia	Urban	1987→
35	Lahemaa	Estonia	Rural	1987→
36	Lisbon-Jeronimo Monastery	Portugal	Urban	1987→
37	Dorset	Canada	Rural	1987→
38	Research Triangle Park	USA (NC)	Rural	1987-1995
39	Steubenville	USA (OH)	Industry	1987-1995

Table 2: cont.

40	Paris	France	Urban	1997→
41	Berlin	Germany	Urban	1997→
42	Athens	Greece	Urban	1997→
43	Tel Aviv	Israel	Urban	1997→
44	Svanvik	Norway	Rural, industry	1997→
45	Chaumont	Switzerland	Rural	1997→
46	London	United Kingdom	Urban	1997→
47	Los Angeles	USA (CA)	Urban	1997→
49	Antwerp	Belgium	Urban	1997→
50	Katowice	Poland	Urban, industry	1999→

8 Model for computation of solar radiation

Some countries are still reporting the solar radiation as hours with sun. To convert these data into solar radiation a model for computation of solar radiation received by a horizontal surface at sea level has been developed. The model is based on the discrete ordinate solution to the radiative transfer equation (Stamnes et al., 1988) and is modified to include the curvature of the atmosphere (Dahlback and Stamnes, 1991). The model includes all orders of multiple scattering and absorption, and the ground is treated as a Lambertian reflector. The optical properties are allowed to vary vertically. The atmosphere is divided into a suitable number of layers to resolve the optical properties adequately. The model includes molecular Rayleigh scattering as well as scattering and absorption by clouds.

The solar radiation received by a horizontal surface, E , may be written as

$$E = \iint F(\tau_{eff}, O_3, Z, A, \lambda, \tau_R) \cdot d\lambda \cdot dt$$

where F is the spectral global irradiance (direct + diffuse radiation). The integration is performed over a time period of 1 year and the wavelength is integrated from 290 nm to 2900 nm in order to cover the complete solar spectrum. The spectral irradiance F depends on the cloud optical depth τ_c , the total ozone abundance, O_3 , the solar zenith angle, Z , the surface albedo, A , the wavelength, λ , and the Rayleigh scattering optical depth, τ_R . The most important factors controlling the annual integrated solar energy, E , are the cloud cover and the solar zenith angle. Atmospheric ozone is included in the model but are assumed to be constant since variations in the ozone amount is of minor importance on the radiation integrated over the complete solar spectrum. The effect of aerosols in the lower troposphere may be of importance at some locations but are neglected here. The surface albedo, A , was set to 0.2 which is close a climatological mean value for continental vegetation (Kondratyev, 1969).

The model used in this work is designed to compute the surface solar radiation using the annual number of sunhours and latitude as input. The annual numbers of

sun hours are used to determine an effective cloud optical depth, τ_{eff} . The effective cloud optical depth is assumed in the calculations to be constant throughout the year and is determined by

$$\tau_{eff} = \left(\frac{(S_0 - S) \cdot \tau_c}{S} \right)$$

where S_0 is the maximal number of annual sun hours, S is the actual number of sun hours and τ_c is the cloud optical depth on a cloudy day. The present model is a modification of a radiation model used to determine cloud optical depth (Dahlback, 1996) from irradiance measurements with a multi channel filter instrument in Oslo, Norway. Measurements from this station in the period 1994-1996 are used to determine a typical optical depth on a cloudy day and found to be around 20. The time and latitude dependent solar zenith angle with 1 hour time-resolution is used in the calculations of the annual integrated solar radiation, E in MJ/m^2 .

9 Regularity and quality of the reported data

The test sites represent areas from background level of pollutant to urban and industry levels. The background sites have had the best regularity for the data reported. Many of these sites belong to the EMEP monitoring programme and have long and good data records.

In urban and industrial areas it is generally more difficult to maintain the site. In programmes like ECE/ICP materials with long exposure periods, it is sometime necessary to move a test site due to local problems like new use of the property. In some countries the funding of the environmental measurements was limited in the period between the end of the first exposure phase and the start of the second. This situation has become much better. However for some countries, the regularity for reporting the data has been slower than expected. This is illustrated as lack of data for some sites in Appendix A and B.

The solar radiation data reported the first year created some unexpected problems. We found large deviations between sites where the values were expected to be comparable and large deviations from earlier reported data. To investigate this problem, a questionnaire was sent out to all participants during the last year to get information about the instruments used, the calibration routines performed and the denomination used. The result of these questionnaires indicates that the main problem came from misunderstandings in the denominations. Some have reported daily mean values instead of monthly sums and some have used W/m^2 instead of MJ/m^2 . The values have now been corrected and the data is much better correlated in this report.

For data reported in W/m^2 the formulas for calculating the values in $MJ/m^2 \cdot \text{month}$ are:

Months with 31 days $1 W/m^2 = 60 \times 60 \times 24 \times 31 / 1000000 = 2.678 MJ/m^2 \cdot \text{month}$

Months with 30 days $1 W/m^2 = 60 \times 60 \times 24 \times 30 / 1000000 = 2.592 MJ/m^2 \cdot \text{month}$

Months with 28 days $1 W/m^2 = 60 \times 60 \times 24 \times 28 / 1000000 = 2.419 MJ/m^2 \cdot \text{month}$

Four sites are still reporting hours with sun instead of solar radiation. These results are recalculated in accordance with the model described in Chapter 8. The solar radiation level changed when the measuring method was changed. For most of the sites the variation was inside $\pm 10\%$ but some sites had higher deviations.

To some extent missing data has been replaced with average data from previous years. Generated data is only used for parameters that are important for the dose-response studies and for parameters that either need complete data sets or where there is seasonal variations. Up to four data has been generated for a yearly period. A brief review of the quality of the reported data for the different test sites are given in the following pages.

Site 1 and 3 Czech Republic

All mandatory data has been reported through the whole second phase of the programme. Both the regularity and the quality are very good. Compared to the first phase of the project the pollutant level has dropped on both sites. In the first phase of the programme solar radiation was calculated from hours with sun using the model described in this report. In the second phase the solar radiation is measured with a flux meter. For Prague the average flux has in average been reduced with 10% while it has increased with 60% for Kopisty. Compared to the other sites in the middle of Europe the Kopisty solar radiation data seems to be higher than expected while the Prague data is comparable with the solar radiation data for the German sites.

Site 5 Finland

The Ähtäri site is an EMEP site with very good regularity and quality also for the optional parameters. The Ähtäri site is the only Finish site left in the second phase of the programme.

Site 7, 9, 10 and 41 Germany

All the German sites have good regularity for the climate and gas results. The precipitation data has sometime been missing for some of the sites.

Site 7 Waldhof - Langenbrügge is an EMEP site with complete data set.

Site 9 Langenfeld - Reusrath has no precipitation measurements for the two first years of the programme. The results given in Appendix A and B are yearly modelled values calculated by the Institute of Navigation in Stuttgart. The values are expected to have the same quality as normal mean yearly values.

Site 10 Bottrop has precipitation data calculated by the Institute of Navigation in Stuttgart for the second year.

In Appendix B The yearly values for site 9 and 10 are put on the October row and marked with "year" in the column for conductivity since this value is not calculated.

Site 41 Berlin is a traffic site and the pH and conductivity in the precipitation is not reported. Both pH and Conductivity are expected to have high values because of the local dust deposition.

Site 13, 14, 15 and 16 Italy

None of the Italian sites have complete data sets. Climate data including precipitation is normally reported. Gas is reported if measured but the precipitation quality data is completely missing.

Site 13 Rome has complete and good data for temperature, relative humidity, solar radiation, NO₂ and O₃. No SO₂ data is reported since January 1999 and mm precipitation data is missing for the two years 1999 and 2000. No precipitation quality measurements are reported. Yearly average values for the missing yearly precipitation data could be possible to obtain as average from existing data. Because of the changes in the pollution situation with time using an average for the other missing data is not recommended.

Site 14 Casaccia is a rural site with high NO₂ concentrations. Climate and gas are missing for 2001 and for NO₂ from February 2000. The trend analyses have shown that even rural sites have had a reduction in the pollution situation the last years and long time average values for the missing data is not recommended.

Site 15 Milan has normally been the site with the best records of data in Italy. This time there are gaps both in 1999 and 2000 and no precipitation quality data. There has been a strong reduction in the pollution level during the test period and to create new realistic data will be a problem.

Site 16 Venice has good data for climate data. The gas measurements are measured in Mestre and give a more regional result than local. In the situation of today the SO₂ and O₃ values will be fairly representative but NO₂ results in Mestre will be quite different from the car-free Venice. NO₂ values are therefore not reported.

Site 21, 23 and 44 Norway

In Norway solar radiation is still calculated from yearly sun hours based on the model described in Chapter 8. The regularity is good for site 21 and 23. For site 44 solar radiation is missing the last year since the measurements were stopped at the airfield where we got the data. An average value based on previous years should give a fairly good estimate. NO₂ measurements were stopped in January 2001 because of cut in the budget. Last years results should give acceptable results since the NO₂ level is fairly low in this rural area.

Site 24 and 26 Sweden

The Swedish sites site 24 Stockholm and site 26 Aspvreten have complete data sets of very good quality for all data required.

Site 27 and 46 United Kingdom

Most of the climate and gas data is reported for both site 27 Lincoln and site 46 London. The gas measurements with passive samples started in April 1998 so the five first months are missing. The precipitation quality measurements are missing since 1999 because of reduced funding.

Site 31 and 33 Spain

Site 31 Madrid and Site 33 Toledo has normally complete and very good data. This time there are some deviations for precipitation for Toledo.

Site 31 Madrid has a complete data set with very good quality.

Site 33 Toledo: The EMEP measurements have been moved to a nearby site Risco Llano during the summer 2000. The distance between the sites is only around 4 km and the data should be comparable. No precipitation measurements were carried out during the months July, August and September 2000 and average data has been generated.

Site 34 Russia

Site 34 Moscow has been working on a very low budget in the second phase. Temperature, relative humidity and precipitation have been reported regularly. Sun radiation is not reported but the data from the first phase can be used. No pollution data has been reported in 2001. The precipitation quality data the first three years has no particularly trend and an average for the three periods could probably be used also for the last year. The gas pollution data for SO₂ and NO₂ has a strong reduction trend and estimation for the last year is more complicated. The one-year with O₃ could possibly be used as an average since no reduction trend has been observed on any of the sites in the programme.

Site 35 Estonia

Site 35 Lahemaa has almost a complete data set for all data good average values for all parameters can be calculated.

Site 36 Portugal

Site 36 Lisbon has reported data up to February 2001. Yearly values for the fourth year for temperature relative humidity and precipitation are therefore not reported. There are also big uncertainties in the reported values for NO₂ and O₃. There are particularly some surprisingly low monthly values for NO₂ during the fourth year that gives low average. Both for NO₂ and O₃ the three first year's values are more reliable. Another uncertainty in Lisbon is that the site has been moved during the period so comparison with old data is more complicated.

Site 37 Canada

Site 37 Dorset is a rural site. The pollution levels are low for SO₂ and NO₂ and high for O₃. The quality control of the data has been slow during the whole period particularly for precipitation quality data. However, mm precipitation and pH are reported for almost the whole period. No pollution gas data has been reported since November 2000 and precipitation quality data from January 2000. Average data from previous years will probably be acceptable since the changes at this rural site have been minor.

Site 40 France

Site 40 Paris has a complete data set of very good quality.

Site 43 Israel

Site 43 Tel Aviv: In Tel Aviv the institute responsible for the precipitation quality measurements stopped to analyse them at the end of March 1998. The only possibility will be to use the data we have as an yearly average. In Israel the influence from sand deposition is expected to buffer the precipitation quality. Even a short measuring period could therefore give a fairly good estimate. The climate and gas data is reported for the whole period. For the gas pollutants it is a dramatic reduction in the concentration from November 1999 particularly for SO₂. We have not got any explanation for this change and before this change is verified the data shall be handled with care.

Site 45 Switzerland

Site 45 Chaumont has a complete data set of very good quality.

Site 47 USA California

Site 47 Los Angeles has a very interesting pollution with high O₃ and HNO₃ values compared to many of the other sites. Unfortunately there are gaps in the data obtained from the site. The temperature and relative humidity data is complete and the solar radiation has sufficient data for creating a yearly average. The gas data is reported from November 1997 to July 1999 and HNO₃ from November 1997 to January 1998 with two missing data sets. Since there is no general trend for the gas data at the site an acceptable average data for the site could probably be derived from the existing data. There are even more problems with the precipitation data where precipitation quality data is reported in month without any information about the amount of precipitation and no data is reported after November 1999. The importance of precipitation in Southern California is probably low since there is very little precipitation in total in the area and pH is close to 6.

Site 49 Belgium

Site 49 Antwerp has a complete data set for all data except precipitation. The site also has a complete data set for particles. The only complete precipitation and precipitation quality set is for the period November 1999 to October 2000.

Site 50 Poland

Site 50 Katowice started reporting data in November 2000 and has a complete data set from then on.

10 Evaluation of the data

10.1 The data distribution

It is important for the evaluation of the dose-response correlation for materials with the environmental impact that we have as large spread as possible in the concentrations of the most important pollution parameters. In the following figures the yearly mean values for the exposure years 1997-1998 and 2000-2001 for the most important parameters are given.

In Figure 1 and 2 the spread in the SO₂ concentrations for the first and fourth year is shown. The numbering is in accordance with the numbers in Table 2. The values go from 35 µg/m³ for Tel Aviv down to 0.2 µg/m³ at the Scandinavian EMEP stations for the first year. The distribution is fairly good. Low values are dominating in the base as expected since the total amount of sulphur emission in Europe has been reduced during the years of this program. The situation is similar for the second year except that site Katowice had the highest mean value. The concentrations in Tel Aviv have dropped considerably for the last year and data was not reported from site 34 Lisbon.

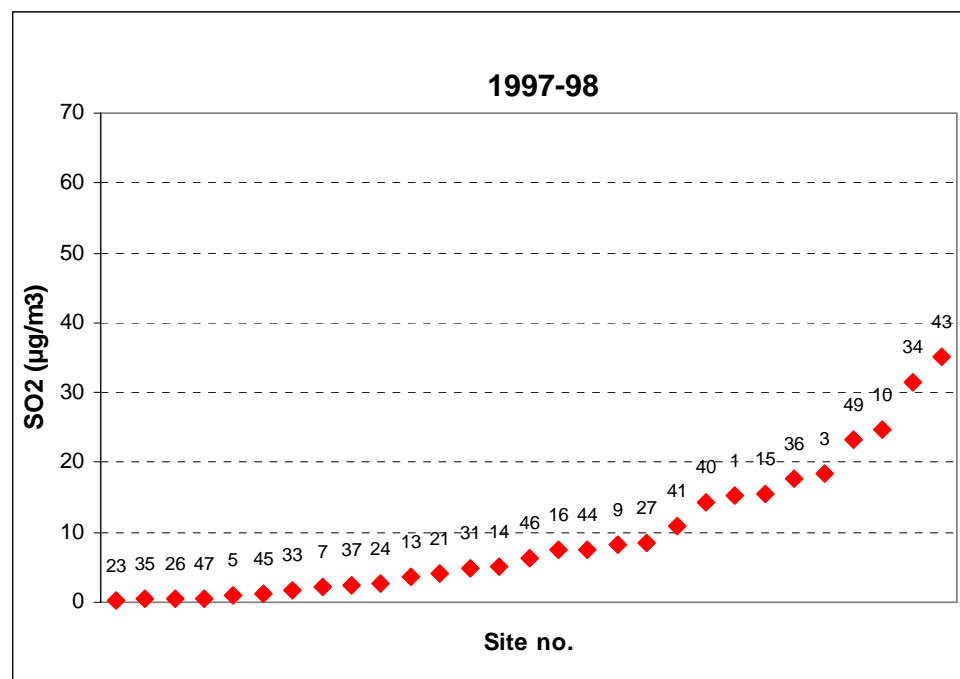


Figure 1: The spread in the yearly mean SO₂ concentrations at the test sites for the first year in phase 2 of the exposure programme.

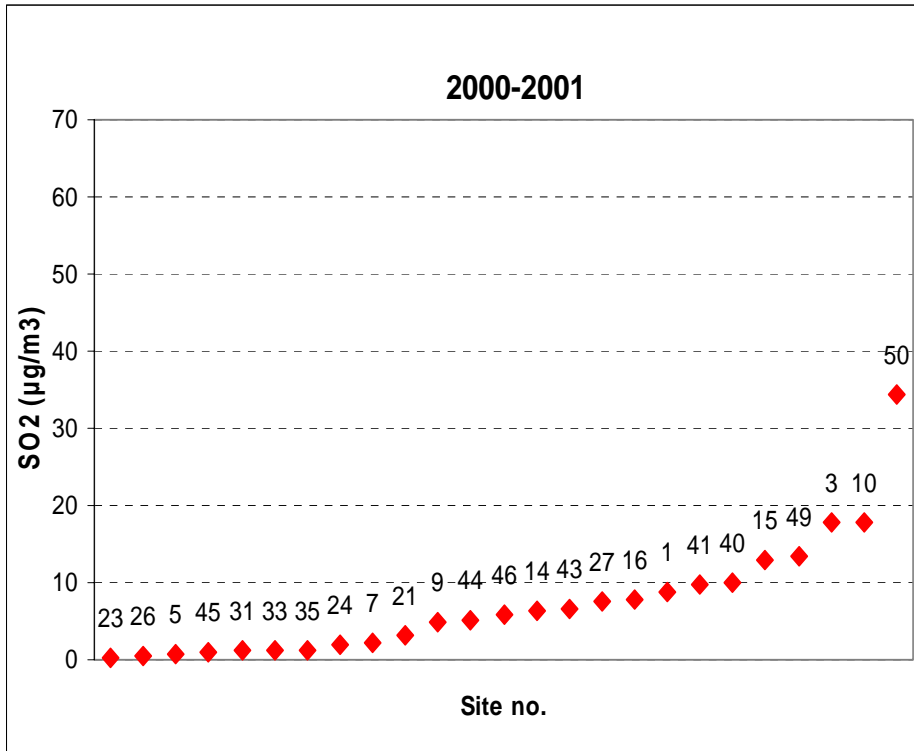


Figure 2: The spread in the yearly mean SO₂ concentrations at the test sites for the fourth year in phase 2 of the exposure programme

In Figure 3 and 4 the spread in the NO₂ concentrations for the first and fourth year is shown. The values go from 82.9 µg/m³ for Milan down to 0.7 µg/m³ at the EMEP station in Estonia for the first year. The distribution is fairly good. Low values are dominating in the base because of the number of EMEP sites in the programme. The distribution the fourth year was comparable with the first year but the values are generally lower. Milan site 15 has still the highest mean value but the value is 72.8 µg/m³ and the rural sites in Norway had the lowest concentrations.

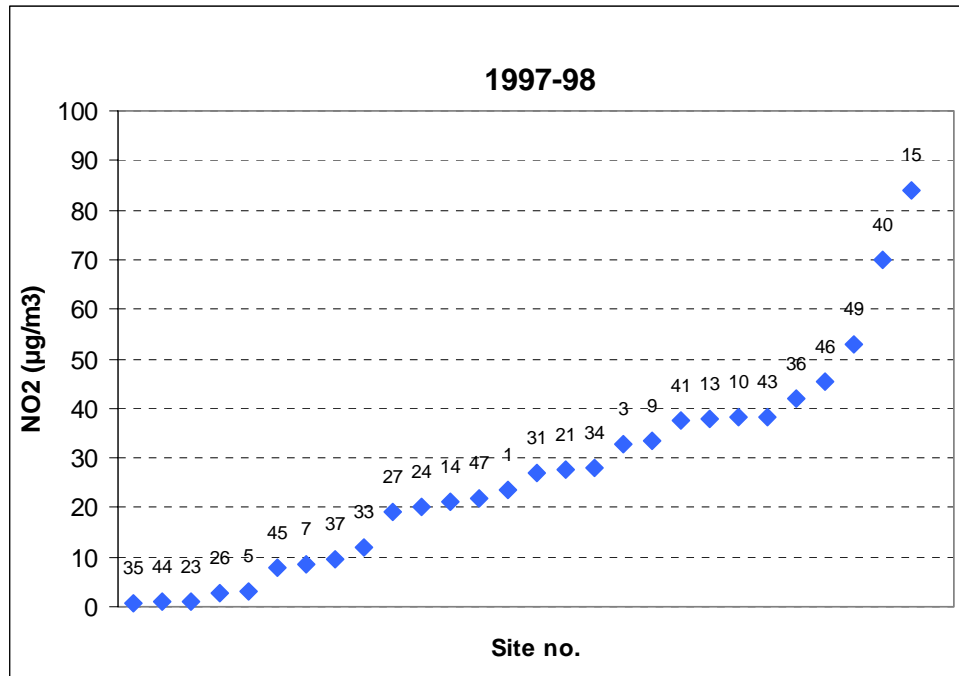


Figure 3: The spread in the yearly means NO₂ concentrations at the test sites for the first year in phase 2 of the exposure programme.

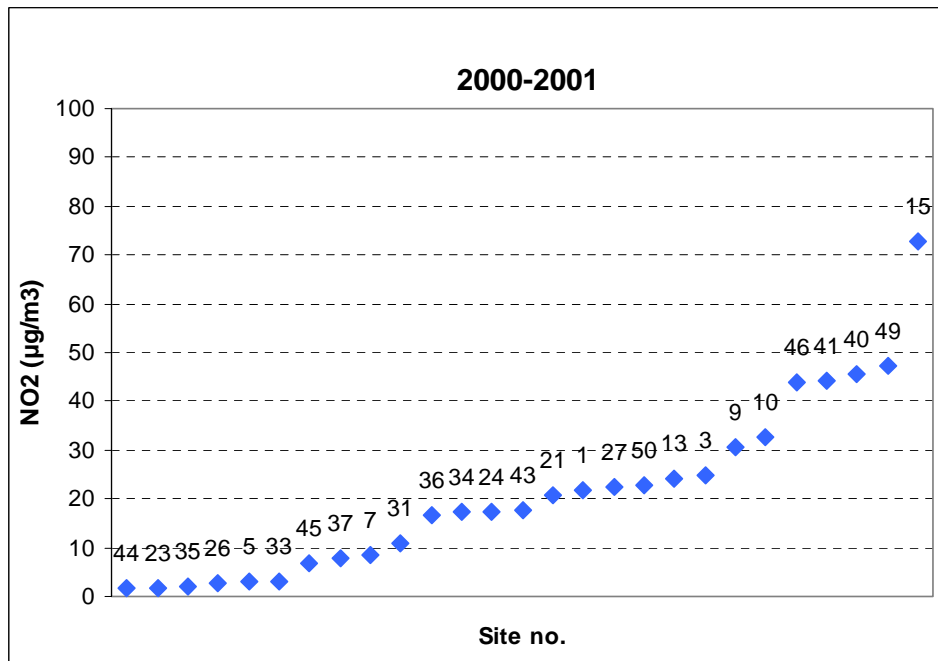


Figure 4: The spread in the yearly means NO₂ concentrations at the test sites for the fourth year in phase 2 of the exposure programme.

In Figure 5 and Figure 6 the spread in the O_3 concentrations for the first and fourth year is shown. The values go from $88 \mu\text{g}/\text{m}^3$ for the EMEP station outside Toledo down to $12 \mu\text{g}/\text{m}^3$ in Lisbon the first year. The distribution is as expected. It is a clustering of values around $50 \mu\text{g}/\text{m}^3$. The low values are observed in the big cities and high values in rural areas in the south and up in the alpine area. The spread is the same for the fourth year. Toledo has still the highest value $92 \mu\text{g}/\text{m}^3$. The lowest concentrations at the Italian sites Milan and Casaccia is concentrations for only two winter months.

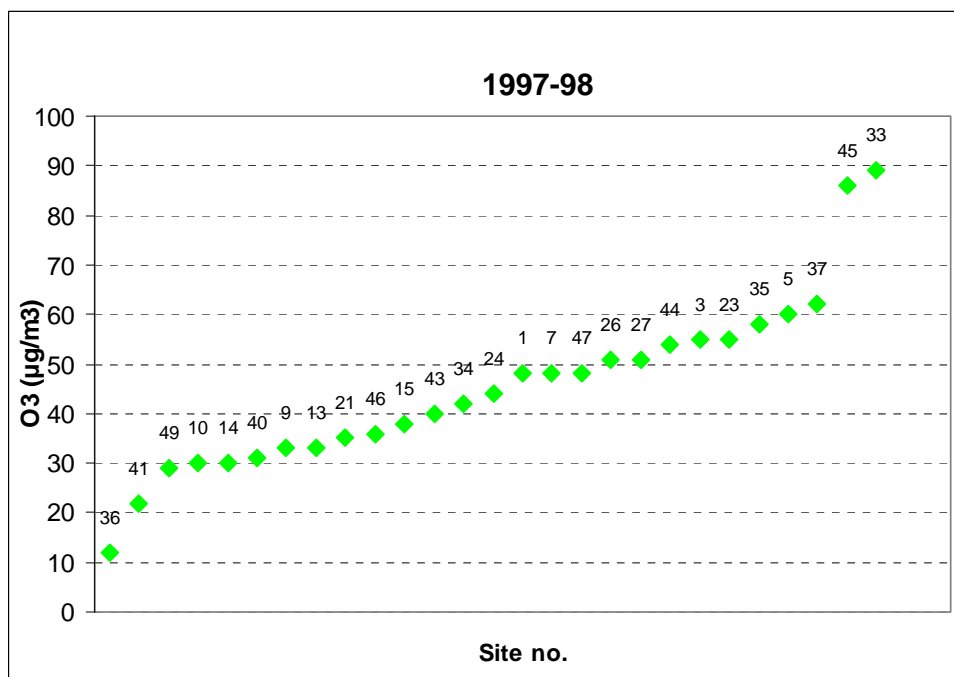


Figure 5: The spread in the yearly mean O_3 concentrations at the test sites for the first year in phase 2 of the exposure programme.

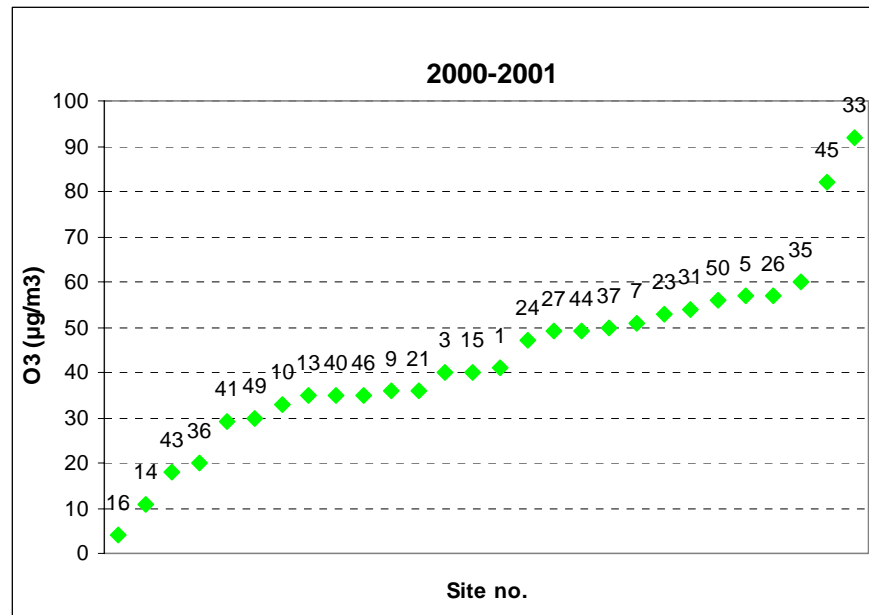


Figure 6: The spread in the yearly mean O₃ concentrations at the test sites for the fourth year in phase 2 of the exposure programme.

10.2 Trend analysis

During the time of the exposure programme some large changes have occurred in the pollution situation in Europe. In Report 34 (Henriksen and Arnesen, 2000) this was illustrated with scatter plots for some of the most important parameters like SO₂, NO₂ and O₃. The plots compared the data for 1987-88 with the data from 1997-98. The plots showed a dramatic reduction in the SO₂ concentrations during the period. In average the reduction is close to 75% for SO₂, around 40% for NO₂ and no reduction for O₃. In this report we have checked if any change can be observed for the different sites during the second phase of the programme by calculating the trend lines between the four yearly data for each site. Even with the large uncertainty in the calculation based on the small number of values the results will give some valuable information about the situation among the exposure sites.

Table 3: The results for SO_2 based on yearly values based on the trendline $[SO_2]=a*year+b$.

$[SO_2]=a*year+b$	Trendline based on yearly values		
Site	a	b	R ²
1	-2.0	17.5	0.91
3	-0.3	18.3	0.14
5	-0.1	1.0	0.23
7	0	1.7	0
9	-1.1	9.1	0.87
10	-2.2	25.9	0.87
13			
14			
15			
16	0.2	6.3	0.01
21	-0.5	5.2	0.44
23	0.02	0.2	0.2
24	-0.3	3.3	0.51
26	-0.03	0.7	0.09
27	-0.5	9.6	0.35
31	-3.4	14.5	0.97
33	-0.2	2.1	0.12
35	0.21	0.7	0.28
36			
37			
40	-1.2	14.7	0.80
41	-0.7	11.5	0.25
43			
44	-0.9	8.7	0.87
45	-0.1	1.5	0.80
46	-0.3	7.2	0.25
47			
49	-2.8	24.3	0.84
50			

Most of the sites still have a reduction in the concentrations according to Table 3. However the R² is low and with only four data set per sites the uncertainty in the slope is high. Several of the sites have a slope not significant different from zero. The trendlines are missing for some of the sites, mostly because of too few reported data sets. For Katowice site 50 the reporting started in the autumn 2000 so only one complete data set is received. Site 43 Tel Aviv has a drastic change from year two and three, from 60 $\mu\text{g}/\text{m}^3$ to 10 $\mu\text{g}/\text{m}^3$. The reason for this change is not clarified and the trendline is therefore taken out in the Table 3.

The trendlines for NO₂ for the second exposure period are shown in Table 4.

Table 4: The results for NO₂ based on yearly values based on the trendline $[NO_2]=a*year+b$.

[NO ₂]=a*year+b	Trendline based on yearly values		
Site	a	b	R ²
1	-0.5	23.9	0.39
3	-2.8	36.3	0.93
5	-0.04	3.1	0.03
7	-0.2	8.9	0.49
9	-1.0	34.1	0.92
10	-2.1	40.1	0.90
13	-3.7	47.2	0.23
14			
15	-5.3	93.9	0.50
16			
21	-2.1	33.4	0.24
23	0.2	1.0	0.83
24	-0.9	21.3	0.98
26	-0.08	2.9	0.25
27	1.0	19.1	0.61
31	-4.2	29.0	0.77
33	-2.7	15.1	0.81
34			
35	0.5	0.5	0.81
36	-7.5	49.4	0.85
37	-0.3	7.9	0.03
40	-7.4	73.3	0.82
41	1.7	37.6	0.52
43	-8.2	50.0	0.79
44	0.2	0.9	0.64
45	-0.3	8.3	0.65
46	-0.6	47.4	0.65
47			
49	-1.6	53.5	0.78
50			

The trendlines indicated that only some of the high polluted sites had a slope significant different from zero. For most of the site there has been only small changes and not significant different from a=0.

The trendlines for O₃ for the second exposure period are shown in Table 5.

Table 5: The results for O₃ based on yearly values based on the trendline $[O_3]=a*year+b$.

[O ₃]=a*year+b	Trendline based on yearly values		
Site	a	b	R ²
1	-1.9	55	0.39
3	-4.6	64	0.50
5	-1.3	63	0.34
7	0.8	50	0.11
9	0.4	33	0.04
10	0.7	30	0.36
13	-0.1	31	0
14	-6.7	44	0.58
15	2.6	28	0.12
16			
21	-0.1	38	0
23	0	58	0.26
24	0.6	46	0.07
26	1.4	54	0.13
27	-0.6	52	0.6
31	-0.7	56	0.52
33	1.8	83	0.17
34			
35	1.3	57	0.24
36	3.1	8	0.82
37	-3.9	68	0.79
40	0.7	31	0.12
41	2.3	20	0.99
43			
44	-2.0	61	0.22
45	-1.4	87	0.89
46	-0.9	38	0.22
47			
49	0.8	28	0.64
50			

From Table 5 it is shown that almost all sites have a slope not significant different from zero.

10.3 Solar radiation

The yearly sum for solar radiation given for all sites with data is reported in Annex A and B. After some problems with the denomination for the reported values the first year, the quality of the reported data has improved the last years. Some countries like Norway still report the data like sun hours and are using the model described in earlier reports (Dahlback 1991 and 1996) and Henriksen et al 1997)

11 Conclusions

The database obtained during the second phase of the ECE-ICP materials programme has in the end comparable regularity and quality as in the first phase. Sites belonging to the national surveillance programme and EMEP have the best regularity. Some of the urban sites have a lower regularity and some have been moved during the test period.

The irregularity is highest for the gas and precipitation measurements. The reporting times for precipitation has been a problem for some sites during the whole programme due to slow quality assurance procedures. Reductions in the surveillance programmes indifferent countries have been a part of the problem. For rural sites the precipitation quality data are not expected to change drastically during the period and an average of existing data can be used. The highest irregularity for gas is observed at the Italian sites, Moscow and in Los Angeles. In Tel Aviv there is a big change in the pollution level between the two first and the two last years in the period.

The trend analysis has indicated that the pollution reduction has been smaller in the second phase of the programme. However still it is possible to see a reduction in SO₂ and NO₂ in many of the most polluted sites. No significant changes have been observed for O₃.

12 References

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Appendix A

Calculated yearly mean values and mean values for the exposure periods

**Yearly values for November 1997 to October 2001 and mean values for
period November 1997 to October 1998, period November 1997 to October
1999 and period November 1997 to October 2001,**

Table A1: Calculated mean values for all parameters and sites for the periods 1997/1998, 1997/1999 and 1997/2001.

	Date		CLIMATE			GASES			PRECIPITATION					PREC. - OPTIONAL					
			Temp °C	Rh %	Sun MJ/m ²	SO ₂ µg/m ³	NO ₂ µg/m ³	O ₃ µg/m ³	mm	pH	SO ₄ -S mg/l	NO ₃ -N mg/l	Cl mg/l	Cond µS/cm	NH ₄ -N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l
1	1997	1998	9,9	76	2971	15,3	23,7	48	521,9	5,56	11,34	2,19	1,95	27,6					
1	1997	1999	9,7	76	6050	14,2	22,9	48	927,2	5,03	8,74	1,50	2,24	27,9					
1	1997	2001	9,8	76	12291	12,5	22,7	47	2053,2	4,87	6,73	2,59	2,26	37,9					
3	1997	1998	9,9	76	3921	18,3	32,6	55	419,5	4,62	34,03	2,77	1,73	44,6					
3	1997	1999	9,7	77	8055	18,1	32,4	57	833,4	4,50	24,31	1,81	1,63	49,9					
3	1997	2001	9,7	77	16292	17,5	29,4	53	1852,9	4,46	15,54	3,34	1,62	49,1					
5	1997	1998	3,5	80	2889	0,9	3,0	60	741,8	4,74	0,25	0,21	0,15	10,7	0,14	0,08	0,07	0,02	0,09
5	1997	1999	4,1	80	6103	0,9	3,1	62	1355,4	4,71	0,27	0,23	0,14	11,5	0,15	0,08	0,07	0,02	0,07
5	1997	2001	4,5	80	12331	0,8	3,0	60	2851,0	4,74	0,27	0,22	0,15	10,9	0,15	0,08	0,08	0,02	0,05
7	1997	1998	9,5	83	3104	2,1	8,7	48	785,7	5,04	0,64	0,57	0,73	17,6	0,60	0,37	0,49	0,14	0,12
7	1997	1999	9,5	81	6832	1,8	8,8	52	1288,7	5,10	0,66	0,61	1,05	18,9	0,64	0,53	0,54	0,16	0,12
7	1997	2001	9,5	80	13621	1,7	8,5	52	2469,8	5,00	0,60	0,61	0,98	18,8	0,64	0,50	0,48	0,14	0,11
9	1997	1998	10,9	80	2494	8,3	33,5	33	930,0	4,92	0,89	0,57	1,55		0,59	0,64	0,46	0,07	0,13
9	1997	1999	11,1	79	5380	7,4	32,6	35	1725,6	5,09	0,87	0,60	1,48		0,63	0,77	0,48	0,08	0,13
9	1997	2001	11,2	80	11055	6,3	31,7	34	3671,1	4,92	0,97	0,57	1,01		0,66	0,64	0,72	0,08	0,08
10	1997	1998	11,5	81	2531	24,6	38,2	30	1044,3	4,84	0,99	0,46	1,20	22,1	0,76	0,75	0,57	0,14	0,11
10	1997	1999	11,6	81	5502	22,5	37,3	32	1868,5	4,93	0,99	0,55	1,29	26,0	0,82	0,90	0,59	0,13	0,12
10	1997	2001	11,6	81	11198	20,3	35,0	32	3625,6	4,92	1,68	0,59	1,34	26,0	1,20	1,02	1,13	0,08	0,14
13	1997	1998	19,4	65	4360	3,7	37,8	33	1125,4										
13	1997	1999	19,3	65	8447		40,3	32											
13	1997	2001	18,9	65	16475		31,9	31											
14	1997	1998	14,5	74	5178	5,2	21,0	30											
14	1997	1999	15,5	70	9841	4,1	26,1	34											
14	1997	2001	15,9	67	18777	3,9	25,4	32											

	Date	CLIMATE			GASES			PRECIPITATION						PREC. - OPTIONAL				
		Temp °C	Rh %	Sun MJ/m ²	SO ₂ µg/m ³	NO ₂ µg/m ³	O ₃ µg/m ³	mm	pH	SO ₄ -S mg/l	NO ₃ -N mg/l	Cl mg/l	Cond µS/cm	NH ₄ -N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l
15	1997 1998	14,5	69	4940	15,4	83,9	38	1076,6										
15	1997 1999	14,7	70	9838	15,0	80,2	39											
15	1997 2001	14,9	70	19648	14,5	76,5	39											
16	1997 1998	13,5	83	4999	7,4		41	742,2										
16	1997 1999	13,7	82	10257	6,5		42	1366,6										
16	1997 2001	14,4	82	20760	6,8		39	2784,1										
21	1997 1998	6,6	79	2521	4,1	27,5	36	523,1	5,20	0,85	0,55	0,87	20,7	0,68	0,51	0,97	0,11	0,36
21	1997 1999	6,8	79	5149	4,7	30,0	38	1411,3	4,75	0,71	0,50	0,73	7,7	0,60	0,43	0,52	0,08	0,21
21	1997 2001	7,1	77	10400	4,0	28,2	37	3359,8	4,71	0,57	0,46	0,75	13,5	0,46	0,45	0,33	0,07	0,15
23	1997 1998	6,2	79	2626	0,2	1,1	55	1744,4	4,50	0,61	0,47	1,50	25,5	0,43	0,83	0,11	0,10	0,08
23	1997 1999	6,2	81	5361	0,3	1,4	57	3432,9	4,51	0,61	0,46	1,66	26,1	0,41	0,92	0,10	0,11	0,08
23	1997 2001	6,5	82	10804	0,3	1,6	56	7584,4	4,55	0,56	0,45	2,19	26,1	0,38	1,21	0,10	0,14	0,08
24	1997 1998	6,7	76	3048	2,6	20,3	44	463,0	4,63	0,54	0,38	0,48	17,1	0,41	0,25	0,14	0,04	0,05
24	1997 1999	7,4	77	6722	2,9	19,9	48	942,0	4,65	0,49	0,36	0,42	15,7	0,37	0,22	0,14	0,03	0,03
24	1997 2001	7,7	78	13222	2,5	19,0	48	2031,0	4,71	0,46	0,33	0,42	15,6	0,38	0,23	0,19	0,04	0,24
26	1997 1998	5,9	86	3301	0,6	2,9	51	479,2	4,59	0,41	0,37	0,57	17,3	0,32	0,20	0,24	0,06	0,10
26	1997 1999	6,2	85	6843	0,7	2,8	57	796,3	4,58	0,47	0,39	0,57	17,8	0,35	0,21	0,27	0,06	0,10
26	1997 2001	6,6	85	13827	0,6	2,7	58	2134,8	4,51	0,52	0,42	0,64	20,0	0,38	0,32	0,21	0,06	0,10
27	1997 1998	10,2	81	3224	*8.4	*19.1	*51	707,8	4,61	1,64	0,56	3,56		1,33	1,95		0,32	0,14
27	1997 1999	10,2	81	6851	9,1	20,8	51	1437,2										
27	1997 2001	10,0	81	10472	8,4	21,6	51	3025,8										
31	1997 1998	12,9	61	5722	11,8	22,1	56	765,0	6,05	0,77	0,37	1,03	16,0	0,42	0,38	0,87	0,17	0,10
31	1997 1999	13,5	58	10303	9,2	23,5	55	1125,0	6,08	0,72	0,35	1,07	15,5	0,42	0,37	0,84	0,15	0,10
31	1997 2001	14,4	59	19432	5,9	18,6	54	2019,0	6,20	0,68	0,35	1,09	15,3	0,43	0,34	0,93	0,14	0,09

	Date	CLIMATE			GASES			PRECIPITATION						PREC. - OPTIONAL				
		Temp °C	Rh %	Sun MJ/m ²	SO ₂ µg/m ³	NO ₂ µg/m ³	O ₃ µg/m ³	mm	pH	SO ₄ -S mg/l	NO ₃ -N mg/l	Cl mg/l	Cond µS/cm	NH ₄ -N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l
33	1997 1998	14,0	59	5905	1,5	11,3	89	871,8	5,80	0,56	0,26	0,92	10,7	0,23	0,33	0,34	0,06	0,06
33	1997 1999	14,0	57	12213	1,9	11,2	84	1255,1	5,83	0,54	0,25	0,90	10,4	0,20	0,34	0,36	0,06	0,07
33	1997 2001	13,5	61	24151	1,7	8,6	87	2280,8	5,99	0,59	0,27	1,12	12,5	0,25	0,49	0,48	0,09	0,09
34	1997 1998	6,5	74		23,6	28,0	42	837,7	6,68	1,42		1,57	45,8	0,72				
34	1997 1999	6,8	72		23,6	24,7		1448,8	6,61	1,47		1,45	44,9	0,77				
34	1997 2001	6,8	71			17,7		2917,4	6,66	1,43		1,31	52,4	0,86				
35	1997 1998	5,4	82	3238	*0,5	0,7	55	858,9	5,16	1,64	0,24	0,78	19,4	0,24	0,31	1,90	0,19	0,18
35	1997 1999	5,9	81	6913	0,9	1,2	59	1476,6	4,97	1,33	0,29	0,67	18,6	0,24	0,30	1,34	0,14	0,20
35	1997 2001	6,4	81	13756	1,1	1,7	60	2791,9	4,84	0,89	0,25	0,56	15,7	0,20	0,26	0,89	0,09	0,15
36	1997 1998	17,9	63		17,7	42,0	12	251,5	5,98	13,30	5,02	13,30	75,3	1,36	*6.82	9,71	0,97	0,51
36	1997 1999	17,5	66		16,5	36,6	12	439,8	6,14	14,37	5,13	13,72	100,9	1,15	6,85	10,79	1,01	0,69
36	1997 2001	17,4	66		11,0	24,4	14	783,5	6,02	14,43	5,54	13,06	98,7	1,05	6,70	10,86	1,01	0,68
37	1997 1998	7,4	75	4435	2,4	9,7	62	788,0	4,31	0,76	0,52	0,11	24,2	0,34	0,05	0,20	0,03	0,03
37	1997 1999	7,9	74	8719	1,2	7,0	62	1837,8	4,36	0,67	0,49	0,10	24,2	0,30	0,06	0,10	0,02	0,03
37	1997 2001	7,2	76	4252	0,6	6,9	61	3856,4	4,43	0,67	0,49	0,10	24,2	0,30	0,06	0,10	0,03	0,03
40	1997 1998	13,4	67	4250	14,2	70,0	31	571,6	5,71	1,81	0,72	2,47	43,7	0,90	1,29	3,91	0,16	0,50
40	1997 1999	13,6	67	8764	12,7	61,1	33	1129,0	5,78	1,81	0,87	2,49	44,8	0,81	1,43	4,84	0,17	0,47
40	1997 2001	13,1	70	4206	11,6	54,7	33	2602,0	5,35	1,47	0,97	2,01	38,4	0,84	1,20	3,81	0,15	0,50
41	1997 1998	10,4	77	3113	10,9	37,7	22	486,2		6,98	4,34	2,09		3,93	1,51	3,89	0,24	2,22
41	1997 1999	10,6	76	6632	10,9	40,8	24	900,8		5,73	3,84	1,75		3,32	1,28	2,73	0,24	1,37
41	1997 2001	10,8	78	3378	9,7	41,8	26	1890,6		4,53	3,19	1,52		2,64	1,11	1,96	0,19	0,88
43	1997 1998	24,6	83		35,0	38,3	40	484,9	x5.64	x0.47	x0.44	x3.53		x0.31	x2.94	x0.38	x0.64	x0.07
43	1997 1999	25,6	86		47,7	41,6	45	806,1										
43	1997 2001	23,7	78		27,9	30,4	34	1530,2										

	Date	CLIMATE			GASES			PRECIPITATION						PREC. - OPTIONAL				
		Temp °C	Rh %	Sun MJ/m ²	SO ₂ µg/m ³	NO ₂ µg/m ³	O ₃ µg/m ³	mm	pH	SO ₄ -S mg/l	NO ₃ -N mg/l	Cl mg/l	Cond µS/cm	NH ₄ -N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l
44	1997 1998	0,2	x80	1967	7,5	0,9	54	344,0	4,77	0,57	0,12	1,87	20,7	0,23	1,02	0,18	0,15	0,11
44	1997 1999	1,0	79	3801	7,6	1,2	58	816,2	4,83	0,47	0,13	1,20	15,9	0,22	0,66	0,13	0,10	0,09
44	1997 2001	1,4	80	7376	6,6	1,1	56	1609,9	4,80	0,56	0,14	1,25	17,9	0,24	0,70	0,13	0,11	0,09
45	1997 1998	6,9	77	4388	1,3	7,7	86	1052,9	4,99	0,27	0,21	0,18	9,4	0,24	0,15	0,31	0,03	0,03
45	1997 1999	6,6	79	8658	1,3	7,9	85	2256,7	4,96	0,27	0,22	0,18	9,7	0,24	0,13	0,29	0,02	0,03
45	1997 2001	6,8	79	17124	1,2	7,5	84	4609,8	5,03	0,27	0,22	0,16	9,1	0,25	0,11	0,28	0,02	0,03
46	1997 1998	12,2	70	3228	*6.3	*45.3	*36	706,4	5,65	0,54	0,26	4,07			2,18		0,32	0,19
46	1997 1999	12,3	70	6793	7,0	46,8	38	1356,6										
46	1997 2001	12,2	70	11384	6,4	46,0	36	2919,9										
47	1997 1998	17,4	61	6561	0,6	21,7	48		*5.77									
47	1997 1999	16,9	62	12696	0,5	25,8	50		x5.89	x8.31	x0.41	x3.37	x25.7					
47	1997 2001	16,9	64	26244														
49	1997 1998	11,4	76	3027	22,8	52,8	28											
49	1997 1999	11,7	76	6517	19,7	50,7	29											
49	1997 2001	11,8	76	13468	17,4	49,4	30		5,23	1,42	0,56	2,46	28,2	0,35				

Table A2: Yearly mean values for all parameters and sites for the four exposure years November 1997 to October 2001.

St	Date	CLIMATE			GASES			PRECIPITATION					PREC.-OPTIONAL					
		Temp °C	Rh %	Sun MJ/m ²	SO ₂ µg/m ³	NO ₂ µg/m ³	O ₃ µg/m ³	mm	pH	SO ₄ -S mg/l	NO ₃ -N mg/l	Cl mg/l	Cond µS/cm	NH ₄ -N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l
1	97/98	9.9	76	2971	15.3	23.7	48	521.9	5.56	11.34	2.19	1.95	27.6					
1	98/99	9.6	76	3079	13.1	22.1	48	405.3	4.75	5.40	0.61	2.61	28.2					
1	99/00	10.1	72	3249	12.6	23.4	50	525.0	4.44	4.25	4.66	2.60	52.2					
1	00/01	9.5	79	2992	8.8	21.7	41	601.0	6.59	5.79	2.45	1.99	40.9					
3	97/98	9.9	76	3921	18.3	32.6	55	419.5	4.62	34.03	2.77	1.73	44.6					
3	98/99	9.4	77	4134	17.8	32.1	58	413.9	4.40	14.46	0.84	1.53	55.3					
3	99/00	10.1	76	4254	16.0	28.0	57	509.8	4.47	6.86	4.64	1.54	49.4					
3	00/01	9.2	80	3983	17.9	24.8	40	509.7	4.41	9.87	4.55	1.70	47.6					
5	97/98	3.5	80	2889	0.9	3.0	60	741.8	4.74	0.25	0.21	0.15	10.7	0.14	0.08	0.07	0.02	0.09
5	98/99	4.6	79	3214	0.9	3.2	64	613.6	4.68	0.30	0.26	0.13	12.4	0.17	0.07	0.07	0.02	0.04
5	99/00	5.0	78	3156	0.5	2.5	60	650.9	4.75	0.28	0.21	0.21	11.1	0.15	0.11	0.08	0.02	0.06
5	00/01	4.8	82	3072	0.8	3.1	57	844.7	4.78	0.26	0.20	0.13	10.0	0.15	0.07	0.09	0.02	0.03
7	97/98	9.5	83	3104	2.1	8.7	48	785.7	5.04	0.64	0.57	0.73	17.6	0.60	0.37	0.49	0.14	0.12
7	98/99	9.4	78	3728	1.5	8.8	55	503.0	5.23	0.69	0.67	1.56	20.9	0.69	0.79	0.62	0.18	0.11
7	99/00	9.8	79	3315	0.9	8.2	54	561.4	5.00	0.63	0.74	1.17	20.2	0.72	0.60	0.60	0.16	0.14
7	00/01	9.4	81	3474	2.3	8.4	51	619.7	4.85	0.45	0.50	0.64	17.2	0.59	0.35	0.26	0.07	0.07
9	97/98	10.9	80	2494	8.3	33.5	33	930.0	4.92	0.89	0.57	1.55		0.59	0.64	0.46	0.07	0.13
9	98/99	11.2	78	2886	6.5	31.7	36	795.6	5.44	0.85	0.64	1.40		0.68	0.93	0.51	0.09	0.13
9	99/00	11.2	81	2780	5.3	31.2	31	948.8	x4.75	x1.05	x0.57	x0.41	x18.4	x0.49	x0.36	x0.77	x0.00	x0.05
9	00/01	11.6	79	2895	5.0	30.5	36	996.7	4.89	1.06	0.50	0.77	21.4	0.87	0.67	1.10	0.00	0.02
10	97/98	11.5	81	2531	24.6	38.2	30	1044.3	4.84	0.99	0.46	1.20	22.1	0.76	0.75	0.57	0.14	0.11
10	98/99	11.6	80	2971	20.4	36.4	33	824.2	5.09	0.98	0.66	1.41		0.90	1.09	0.61	0.11	0.14
10	99/00	11.6	82	2789	18.3	32.7	31	966.5	x5.01	x2.68	x0.63	x1.25	x35.7	x1.90	x0.86	x1.89	x0.03	x0.21
10	00/01	11.7	81	2907	17.9	32.6	33	790.6	4.80	2.09	0.62	1.54	31.2	1.22	1.52	1.48	0.03	0.09

St	Date	CLIMATE			GASES			PRECIPITATION					PREC.-OPTIONAL					
		Temp °C	Rh %	Sun MJ/m ²	SO ₂ µg/m ³	NO ₂ µg/m ³	O ₃ µg/m ³	mm	pH	SO ₄ -S mg/l	NO ₃ -N mg/l	Cl mg/l	Cond µS/cm	NH ₄ -N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l
13	97/98	19.4	65	4360	3.7	37.8	33	1125.4										
13	98/99	19.1	65	4087	x20.4	42.8	31											
13	99/00	19.2	64	3909		47.1	24											
13	00/01	17.9	66			*24.1	*35											
14	97/98	14.5	74	5178	5.2	21.0	30											
14	98/99	16.4	66	4663	3.0	31.1	38											
14	99/00	16.7	62	4242	3.4	x24.2	28											
14	00/01		x64		x6.4													
15	97/98	14.5	69	4940	15.4	83.9	38	1076.6										
15	98/99		x78	4898	x20.1	x92.8												
15	99/00	14.2	71	4856	15.1	72.7	40	970.8										
15	00/01	15.9	71	4912	12.9	72.8	40											
16	97/98	13.5	83	4999	7.4			742.2	x6.10									
16	98/99	13.9	80	5258	5.5		45	624.4										
16	99/00	15.2	80	5313	6.4		32	721.5										
16	00/01	14.9	83		7.8			696.0										
21	97/98	6.6	79	2521	4.1	27.5	36	523.1	5.20	0.85	0.55	0.87	20.7	0.68	0.51	0.97	0.11	0.36
21	98/99	7.0	78	2628	5.2	32.5	39	888.2	4.61	0.62	0.47	0.64	20.8	0.55	0.39	0.26	0.06	0.12
21	99/00	7.4	74	2634	3.4	32.0	38	898.3	4.63	0.52	0.44	0.83	19.0	0.39	0.48	0.22	0.07	0.11
21	00/01	7.2	75	2617	3.1	20.8	36	1050.2	4.72	0.42	0.41	0.73	16.6	0.34	0.44	0.17	0.06	0.09
23	97/98	6.2	79	2626	0.2	1.1	55	1744.4	4.50	0.61	0.47	1.50	25.5	0.43	0.83	0.11	0.10	0.08
23	98/99	6.2	82	2735	0.3	1.6	59	1688.5	4.52	0.60	0.45	1.82	26.7	0.39	1.01	0.09	0.12	0.08
23	99/00	7.1	83	2737	0.2	1.7	55	1819.0	4.58	0.59	0.45	3.63	30.0	0.39	1.98	0.13	0.24	0.10
23	00/01	6.6	83	2706	0.3	1.8	53	2332.5	4.59	0.47	0.44	1.84	23.2	0.34	1.03	0.08	0.12	0.07

St	Date	CLIMATE			GASES			PRECIPITATION					PREC.-OPTIONAL					
		Temp °C	Rh %	Sun MJ/m ²	SO ₂ µg/m ³	NO ₂ µg/m ³	O ₃ µg/m ³	mm	pH	SO ₄ -S mg/l	NO ₃ -N mg/l	Cl mg/l	Cond µS/cm	NH ₄ -N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l
24	97/98	6.7	76	3048	2.6	20.3	44	463.0	4.63	0.54	0.38	0.48	17.1	0.41	0.25	0.14	0.04	0.05
24	98/99	8.0	77	3674	3.2	19.5	51	479.0	4.68	0.44	0.34	0.36	14.3	0.34	0.20	0.14	0.03	0.02
24	99/00	7.9	77	3456	2.2	18.8	48	121.9	4.59	0.50	0.40	0.63	17.8	0.34	0.33	0.13	0.05	0.30
24	00/01	8.1	81	3044	1.9	17.5	47	63.5	4.75	0.46	0.34	0.40	16.7	0.52	0.24	0.28	0.05	0.19
26	97/98	5.9	86	3301	0.6	2.9	51	479.2	4.59	0.41	0.37	0.57	17.3	0.32	0.20	0.24	0.06	0.10
26	98/99	6.5	84	3542	0.8	2.6	63	317.1	4.57	0.56	0.41	0.56	18.6	0.40	0.23	0.31	0.06	0.11
26	99/00	6.8	83	3605	0.5	2.4	59	566.8	4.63	0.50	0.38	0.69	17.9	0.37	0.39	0.18	0.06	0.12
26	00/01	7.2	86	3379	0.6	2.7	57	771.7	4.39	0.58	0.48	0.69	23.8	0.43	0.39	0.16	0.06	0.08
27	97/98	10.2	81	3224	*8.4	*19.1	*51	707.8	4.61	1.64	0.56	3.56		1.33	1.95		0.32	0.14
27	98/99	10.1	80	3627	9.8	22.5	51	729.4	x5.50	x1.05	x0.31	x2.53		x0.68	x1.42		x0.25	x0.12
27	99/00	9.8	81	3621	8.0	22.1	51											
27	00/01	9.7	81	3900	7.5	22.6	49	830.7										
31	19/97	12.9	61	5722	11.8	22.1	56	765.0	6.05	0.77	0.37	1.03	16.0	0.42	0.38	0.87	0.17	0.10
31	19/98	14.0	55	4581	6.5	24.8	54	360.0	6.17	0.60	0.32	1.14	14.4	0.41	0.36	0.79	0.12	0.10
31	19/99	15.8	56	4524	4.2	16.5	53	334.0	6.57	0.70	0.41	1.00	18.1	0.61	0.24	1.37	0.13	0.10
31	20/00	15.0	62	4605	1.2	11.0	54	560.0	6.33	0.59	0.32	1.18	13.3	0.36	0.35	0.84	0.11	0.08
33	97/98	14.0	59	5905	1.5	11.3	89	871.8	5.80	0.56	0.26	0.92	10.7	0.23	0.33	0.34	0.06	0.06
33	98/99	14.0	55	6308	2.3	11.0	79	383.3	5.91	0.49	0.22	0.84	9.8	0.14	0.37	0.42	0.06	0.08
33	99/00	13.7	60	6019	1.9	9.1	88	286.7	*6.10	*0.55	*0.26	*0.85	*12.1	*0.22	*0.35	*0.60	*0.08	*0.11
33	00/01	12.2	71	5919	1.2	3.1	92	739.0	6.44	0.69	0.31	1.62	16.1	0.34	0.81	0.64	0.14	0.13
34	97/98	6.5	74		*31.5	28.0	42		6.68	1.42		1.57	45.8	0.72				
34	98/99	7.0	70		23.6	21.4	*29	611.1	6.52	1.55		1.29	43.7	0.84				
34	99/00	6.1	70			21.5		657.0	6.66	1.32		1.00	69.0	1.05				
34	00/01	7.4	69					811.6										

St	Date	CLIMATE			GASES			PRECIPITATION					PREC.-OPTIONAL					
		Temp °C	Rh %	Sun MJ/m ²	SO ₂ µg/m ³	NO ₂ µg/m ³	O ₃ µg/m ³	mm	pH	SO ₄ -S mg/l	NO ₃ -N mg/l	Cl mg/l	Cond µS/cm	NH ₄ -N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l
35	19/97	5.4	82	3238	*0.5	0.7	55	858.9	5.16	1.64	0.24	0.78	19.4	0.24	0.31	1.90	0.19	0.18
35	19/98	6.3	79	3675	1.7	1.7	63	617.7	4.80	x1.79	0.37	0.51	17.4	0.25	0.29	0.55	0.08	0.22
35	19/99	6.8	80	3397	1.4	2.3	61	647.8	4.76	0.40	0.24	0.49	12.9	0.15	0.24	0.58	0.05	0.12
35	20/00	6.9	81	3446	1.3	2.2	60	667.5	4.69	0.39	0.18	0.41	12.0	0.17	0.17	0.19	0.03	0.08
36	97/98	17.9	63		17.7	42.0	12	251.5	5.98	13.30	5.02	13.30	75.3	1.36	*6.82	9.71	0.97	0.51
36	98/99	17.1	68		15.2	31.2	11	188.3	6.56	15.79	5.27	14.27	135.1	*0.88	6.90	12.24	1.07	0.94
36	99/00	17.1	67		*27.2	*32.5	18	129.5	*6.00	*12.74	*6.01	*11.28	*91.6	*0.70	*6.19	*10.28	*1.00	*0.58
36	00/01	x13.8	x78			x16.5	x20		x5.83				x55.5	x0.30	x30.53	x3.64	x0.95	x0.58
37	97/98	7.4	75	4435	2.4	9.7	62	788.0	4.31	0.76	0.52	0.11	24.2	0.34	0.05	0.20	0.03	0.03
37	98/99	8.3	73	4284	x1.9	4.2	62	1049.8	4.40	0.60	0.47	0.10	x42.1	0.27	x0.07	0.20	x0.03	0.03
37	99/00	6.5	76	4037		6.6	59	898.0	4.55									
37	00/01	6.5	78			x7.8	x50	1120.0	4.49									
40	97/98	13.4	67	4250	14.2	70.0	31	571.6	5.71	1.81	0.72	2.47	43.7	0.90	1.29	3.91	0.16	0.50
40	98/99	13.7	67	4514	11.1	52.2	35	557.4	5.87	1.81	1.02	2.52	45.9	0.72	1.57	5.80	0.19	0.43
40	99/00	12.7	72	4203	11.1	51.0	30	742.2	5.18	1.24	0.96	1.45	31.2	1.04	0.88	2.82	0.12	0.46
40	00/01	12.7	74	3857	10.1	45.6	35	730.8	5.17	1.19	1.14	1.82	35.7	0.67	1.16	3.23	0.15	0.58
41	97/98	10.4	77	3113	10.9	37.7	22	486.2		6.98	4.34	2.09		3.93	1.51	3.89	0.24	2.22
41	98/99	10.7	74	3519	10.9	43.9	25	414.6		4.26	3.26	1.36		2.61	1.01	1.38	0.23	0.37
41	99/00	11.1	77	3367	7.0	41.3	27	500.7		x3.61	x2.11	x1.77		2.51	0.99	1.32	0.20	0.24
41	20/01	11.1	82	3514	9.8	44.2	29	489.1		2.84	2.93	0.72		1.22	0.86	0.93	0.08	0.50
43	19/97	24.6	83		35.0	38.3	40	484.9	x5.64	x0.47	x0.44	x3.53		x0.31	x2.94	x0.38	x0.64	x0.07
43	19/98	26.5	88		60.3	43.9	50	321.2										
43	19/99	21.5	70		9.8	20.7	21	469.8										
43	20/00	22.0	70		6.6	17.8	24	254.3										

St	Date	CLIMATE			GASES			PRECIPITATION					PREC.-OPTIONAL					
		Temp °C	Rh %	Sun MJ/m ²	SO ₂ µg/m ³	NO ₂ µg/m ³	O ₃ µg/m ³	mm	pH	SO ₄ -S mg/l	NO ₃ -N mg/l	Cl mg/l	Cond µS/cm	NH ₄ -N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l
44	19/97	0.2	x80	1967	7.5	0.9	54	344.0	4.77	0.57	0.12	1.87	20.7	0.23	1.02	0.18	0.15	0.11
44	19/98	1.8	78	1834	7.6	1.5	62	472.2	4.87	0.39	0.14	0.71	12.4	0.21	0.39	0.09	0.07	0.08
44	19/99	2.4	80	1731	5.9	1.8	57	432.4	4.69	0.57	0.14	1.38	17.9	0.24	0.78	0.11	0.11	0.09
44	20/00	1.0	80	1844	5.2	x1.6	49	361.3	4.89	0.75	0.15	1.22	22.4	0.31	0.69	0.16	0.11	0.10
45	97/98	6.9	77	4388	1.3	7.7	86	1052.9	4.99	0.27	0.21	0.18	9.4	0.24	0.15	0.31	0.03	0.03
45	98/99	6.3	80	4270	1.3	8.0	84	1203.8	4.93	0.27	0.23	0.18	10.0	0.24	0.11	0.27	0.02	0.03
45	99/00	6.8	79	4336	1.0	7.5	82	1071.8	5.09	0.30	0.25	0.16	9.9	0.34	0.11	0.36	0.03	0.04
45	20/01	7.2	80	4128	1.0	6.9	82	1281.3	5.13	0.23	0.20	0.13	7.4	0.21	0.08	0.18	0.02	0.02
46	97/98	12.2	70	3228	*6.3	*45.3	*36	706.4	5.65	0.54	0.26	4.07			2.18		0.32	0.19
46	98/99	12.3	71	3342	7.6	49.4	37	650.2	x6.88	x0.44	x0.16	x7.46			x4.08		x0.56	x0.31
46	99/00	12.1	72	2450	5.9	46.4	33	656.6										
46	20/01	12.1	69	2364	5.8	44.0	35	906.7										
47	97/98	17.4	61	6561	0.6	21.7	48		*5.77									
47	98/99	16.4	62	6135	*0.4	*29.8	*51		x5.89	x8.31	x0.41	x3.37	x25.7					
47	99/00			7213														
47	20/01			6335														
49	97/98	11.4	76	3027	22.8	52.8	28		x5.07	x1.46	x0.47	x3.86	x35.6					
49	98/99	12.0	75	3490	16.5	48.6	29		*4.86	*1.78	*0.59	*4.70	*43.3					
49	99/00	11.9	77	3441	16.8	49.0	31	1008.0	5.23	1.42	0.56	2.46	28.2	0.35				
49	20/01	11.7	75	3510	13.5	47.2	30	992.5	4.75	0.97	0.41	2.37	25.9	0.21				
50	97/98																	
50	98/99																	
50	99/00																	
50	20/01	9.4	81	1582	34.4	22.7	56	870.0	4.41	3.93	1.97	1.35	33.9	1.40	0.39	1.23		

Appendix B

Reported monthly values for all parameters and sites

November 1997 to October 2001

Site 1: Prague-Letnany, The Czech Republic

Year	Mnth	Mandatory												Option									
		Climate			Gases			Precipitation						Precipitation					Gases	Particle	Particles Deposition		
		Temp C	RH %	Sun MJ/m2	SO2 µg/m ³	NO2 µg/m ³	O3 µg/m ³	mm	pH	SO4-S mg/l	NO3-N mg/l	Cl mg/l	Cond µS/cm	NH4-N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l	HNO3 µg/m ³	Conc µg/m ³	Cl mg/m ² d	SO4-S mg/m ² d	NO3-N mg/m ² d
1997	11	3.3	89	80	19.9	27.3	13	52.6	7.30	19.30	2.30	1.00	50.0							89.0			
1997	12	1.9	90	48	17.5	22.4	24	38.1	6.30	17.30	2.90	1.00	18.0							56.0			
1998	1	1.4	83	80	19.4	25.0	31	9.9	6.70	19.40	1.00	5.70	47.0							68.0			
1998	2	4.5	76	133	24.1	42.0	40	22.3	4.50	27.20	1.80	7.10	50.0							30.0			
1998	3	4.7	70	244	17.5	20.6	57	23.6	7.30	13.20	2.20	3.70	32.0							40.0			
1998	4	10.8	66	329	11.2	19.5	67	5.4	7.60	4.90	58.40	1.70	172.0										
1998	5	15.2	64	466	13.5	16.8	77	36.7	6.20	23.30	4.40	1.80	48.0										
1998	6	18.3	70	452	7.6	23.8	67	85.9	7.00	6.40	1.00	1.50	27.0										
1998	7	18.1	75	388	11.3	16.5	58	70.4	6.80	5.60	1.00	1.50	17.0										
1998	8	18.6	64	423	12.7	19.8	72	19.0	5.10	13.60	1.00	3.50	27.0										
1998	9	13.4	84	210	11.8	21.0	40	73.2	5.40	4.30	1.00	0.60	9.0										
1998	10	9.2	84	118	17.5	29.1	31	84.8	5.60	8.70	1.00	2.40	16.0										
1998	11	1.5	87	70	17.4	25.6	13	31.7	6.30	5.40	1.00	3.30	15.0										
1998	12	0.4	84	75	21.5	27.0	24	8.3	4.80	13.20	1.20	5.60	43.0										
1999	1	1.3	87	59	16.6	21.8	37	34.9	5.10	2.30	0.40	2.00	22.5										
1999	2	-0.1	83	80	19.2	26.0	49	33.1	4.20	4.80	0.70	3.00	32.5										
1999	3	5.8	73	225	13.9	22.4	47	22.5	4.30	4.50	0.50	0.80	25.0										
1999	4	9.9	70	340	7.8	23.1	60	22.6	6.10	7.00	1.10	1.40											
1999	5	15.0	65	474	11.0	21.6	71	55.9	6.10	9.50	0.90	3.10											
1999	6	16.4	74	399	10.3	16.6	61	63.1	6.90	2.70	0.40	1.60	30.0										
1999	7	20.0	70	479	8.2	15.7	69	40.7	4.20	6.60	0.50	3.90											
1999	8	18.5	65	404	8.2	21.8	63	33.1	6.30	4.10	0.40	5.80	52.9										
1999	9	17.6	71	308	11.4	19.0	55	38.9	4.70	4.70	0.30	0.80	18.9										
1999	10	9.3	83	166	11.3	24.3	28	20.5	5.20	5.80	0.60	1.50	21.0										
1999	11	3.1	88	88	14.5	31.2	17	34.3	7.10	9.90	4.30	4.60	59.5										
1999	12	1.6	83	62	17.6	26.2	38	26.9	4.30	8.60	4.30	0.30	62.8										
2000	1	-0.6	78	102	20.5	25.1	35	28.2	4.40	6.20	4.40	15.00	50.4										

Year	Mnth	Mandatory											Option										
		Climate			Gases			Precipitation					Precipitation					Gases	Particle	Particles Deposition			
		Temp C	RH %	Sun MJ/m ²	SO ₂ μg/m ³	NO ₂ μg/m ³	O ₃ μg/m ³	mm	pH	SO ₄ -S mg/l	NO ₃ -N mg/l	Cl mg/l	Cond μS/cm	NH ₄ -N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l	HNO ₃ μg/m ³	Conc μg/m ³	Cl mg/m ² d	SO ₄ -S mg/m ² d	NO ₃ -N mg/m ² d
2000	2	3.6	75	111	14.6	27.6	45	21.8	3.80	6.50	4.10	5.80	67.0										
2000	3	4.6	77	179	15.4	26.5	48	91.3	4.00	2.00	6.20	1.30	35.6										
2000	4	11.8	62	420	13.3	18.8	61	8.0	5.60	12.30	8.70	2.70	60.3										
2000	5	16.0	58	520	8.7	16.1	79	65.3	5.60	5.10	5.60	0.70	28.2										
2000	6	18.8	56	537	7.5	17.4	79	31.9	7.20		3.90	2.90	88.6										
2000	7	16.3	72	332	10.4	20.5	59	71.9	7.70	1.20	3.80	1.50	77.0										
2000	8	19.8	60	463	6.5	22.2	69	46.4	7.30	2.90	1.90	3.10	65.0										
2000	9	14.0	75	285	14.6	23.0	46	26.6	5.30	7.00	3.90	1.50	31.0										
2000	10	11.2	84	150	7.8	26.4	28	72.4	4.30	2.60	5.20	1.10	42.0										
2000	11	5.6	86	98	12.9	26.3	21	23.1	7.00	5.10	4.90	1.10	50.0										
2000	12	1.3	85	48	10.6	25.2	19	10.8	6.20	3.80	5.20	2.80	28.0										
2001	1	-0.9	87	64	14.9	26.9	20	24.7	5.40	6.20	5.90	1.30	29.0										
2001	2	1.7	75	135	12.9	23.8	37	15.6	5.80	6.60	3.30	2.00	32.0										
2001	3	4.5	80	174	9.7	19.0	42	51.7	8.00	9.80	5.50	2.10	46.0										
2001	4	7.8	74	316	11.3	17.6	64	68.8	7.10	4.10	2.90	1.70	35.0										
2001	5	15.2	66	509	10.5	21.7	65	58.3	7.20	8.90	1.50	2.00	41.0										
2001	6	15.1	73	422	5.4	18.1	65	74.9	7.50	6.00	3.00	2.70	56.0										
2001	7	18.9	71	453	4.3	16.0	57	86.0	7.30	2.90	1.20	1.60	28.0										
2001	8	19.2	73	402	4.4	20.1	59	79.1	7.50	6.20	1.00	2.40	53.0										
2001	9	12.1	86	189	4.7	19.5	37	83.9	7.40	4.50	0.60	1.10	20.0										
2001	10	12.1	88	182	4.1	25.6	24	24.1	7.40	7.80	3.10	4.60	93.0										

Site 3: Kopisty-Hory, The Czech Republic

Year	Mnth	Mandatory											Option										
		Climate			Gases			Precipitation					Precipitation					Gases	Particle	Particles Deposition			
		Temp C	RH %	Sun MJ/m ²	SO ₂ μg/m ³	NO ₂ μg/m ³	O ₃ μg/m ³	mm	pH	SO ₄ -S mg/l	NO ₃ -N mg/l	Cl mg/l	Cond μS/cm	NH ₄ -N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l	HNO ₃ μg/m ³	Conc μg/m ³	Cl mg/m ² d	SO ₄ -S mg/m ² d	NO ₃ -N mg/m ² d
1997	11	2.8	90	101	16.0	38.9		16.1	4.50	88.10	5.90	2.00	72.0							89.0			
1997	12	1.6	91	59	14.8	30.9		35.5	4.40	38.30	3.90	1.50	57.0							56.0			
1998	1	1.0	86	86	26.9	36.7	55	15.9	4.30	58.90	4.20	2.40	58.0							68.0			
1998	2	4.5	79	184	18.8	45.0	21	10.9	4.40	105.40	7.80	5.70	98.0							30.0			
1998	3	4.8	75	305	26.2	33.2	35	28.2	4.60	43.00	7.50	3.10	59.0							40.0			
1998	4	11.0	68	472	16.8	34.8	53	17.0	4.60	104.10	11.10	2.70	99.0										
1998	5	15.4	66	629	15.8	23.6	62	9.2	5.00	113.60	1.30	4.40	150.0										
1998	6	18.2	69	565	15.1	28.0	65	66.8	4.60	28.80	1.00	1.50	35.0										
1998	7	18.3	67	525	18.4	24.4	85	51.4	4.90	26.00	1.00	1.30	37.0										
1998	8	18.2	63	554	20.0	27.0	82	29.4	5.10	27.80	1.00	1.90	46.0										
1998	9	13.4	82	267	16.7	28.0	51	73.3	4.50	14.00	1.00	0.60	25.0										
1998	10	9.2	81	174	14.1	40.7	37	65.8	4.90	4.30	2.20	1.50	21.0										
1998	11	1.1	86	88	18.2	36.7	27	43.1	7.10	3.70	1.00	1.80	33.0										
1998	12	-0.4	86	83	17.4	37.3	26	16.2	4.20	23.50	0.60	4.10	68.0										
1999	1	0.8	87	88	20.9	37.3	30	23.0	4.30	17.10	0.70	0.80	54.0										
1999	2	0.0	80	164	17.7	48.1	54	50.1	4.60	7.60	0.50	1.70	31.0										
1999	3	5.5	77	303	18.8	38.8	54	21.3	4.40	16.90	0.80	1.00	52.0										
1999	4	10.0	81	454	22.2	35.3	99	27.0	5.00	26.30	0.80	3.70											
1999	5	15.1	65	643	18.7	17.7	81	22.1	6.70	37.70	1.20	5.40	133.6										
1999	6	16.3	71	550	22.6	24.5	76	76.0	4.20	20.80	1.00	0.40	42.8										
1999	7	20.2	74	619	15.0	19.6	80	30.8	3.90	9.30	1.20	0.80	71.8										
1999	8	17.9	67	511	15.6	25.8	74	24.6	4.30	11.90	0.70	1.40	103.3										
1999	9	17.3	76	417	19.0	30.1	53	57.6	4.50	6.10	0.70	0.50	45.4										
1999	10	9.3	79	214	7.8	33.6	44	22.1	5.00	11.60	0.90	1.20	63.0										
1999	11	2.4	88	104	16.2	30.8	18	28.0	4.50	7.80	0.60	3.60	43.5										
1999	12	1.7	83	83	11.1	34.1	44	36.1	6.10	10.70	5.10	4.70	47.0										
2000	1	0.0	84	107	24.0	31.3	39	34.2	4.70	3.30	4.70	1.40	46.2										

Year	Mnth	Mandatory											Option										
		Climate			Gases			Precipitation					Precipitation					Gases	Particle	Particles Deposition			
		Temp C	RH %	Sun MJ/m2	SO ₂ µg/m ³	NO ₂ µg/m ³	O ₃ µg/m ³	mm	pH	SO4-S mg/l	NO3-N mg/l	Cl mg/l	Cond µS/cm	NH4-N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l	HNO3 µg/m ³	Conc µg/m ³	Cl mg/m ² d	SO4-S mg/m ² d	NO3-N mg/m ² d
2000	2	3.5	80	164	10.2	25.4	49	23.2	4.20	6.80	6.10	3.00	66.9										
2000	3	5.1	79	244	23.8	28.1	55	101.0	4.20	4.00	3.00	0.70	40.1										
2000	4	11.7	68	529	23.7	27.1	76	17.3	4.70	19.00	10.20	0.60	87.4										
2000	5	16.2	64	686	12.3	22.0	85	42.0	4.50	7.30	7.10	1.10	65.0										
2000	6	18.6	64	723	17.9	22.4	88	55.8	5.10	7.90	5.70	1.50	41.0										
2000	7	16.8	74	469	14.9	20.3	69	58.2	4.50	6.10	4.60	0.70	40.0										
2000	8	19.7	64	597	14.4	25.3	77	38.4	4.70	5.60	5.70	1.00	47.0										
2000	9	14.0	77	355	12.5	36.8	44	29.4	6.50	8.30	3.50	1.80	59.0										
2000	10	10.9	84	193	10.8	32.7	35	46.2	4.20	7.10	3.80	1.20	58.0										
2000	11	3.1	83	124	18.0	30.1	30	30.1	4.70	5.40	0.30	1.10	22.0										
2000	12	1.3	88	75	13.5	29.9	13.3	10.8	4.10	10.60	4.50	3.30	102.0										
2001	1	-1.0	89	88	11.9	34.8	13.8	30.5	4.30	10.30	3.20	1.80	57.0										
2001	2	0.7	81	194	21.1	30.0	18.8	37.9	4.10	10.50	3.20	2.20	62.0										
2001	3	3.6	83	220	15.7	28.1	20.1	67.9	4.10	7.50	3.70	1.80	48.0										
2001	4	7.9	73	417	26.8	20.6		21.4	4.30	20.20	6.40	1.50	78.0										
2001	5	15.5	67	659	16.1	17.3	73	64.3	4.40	9.70	4.90	1.70	46.0										
2001	6	15.4	72	578	22.8	17.8	68	44.4	4.80	11.70	6.50	1.80	55.0										
2001	7	18.9	71	656	27.8	15.4	66	58.6	4.90	10.50	5.20	1.40	39.0										
2001	8	19.2	74	520	16.3	20.0	60	57.3	4.70	7.80	7.40	1.30	44.0										
2001	9	12.1	85	238	13.3	22.4	44	60.8	4.60	9.50	3.70	1.70	36.0										
2001	10	11.8	88	214	11.8	31.0	33	25.7	4.50	12.30	3.70	2.10	42.0										

Site 5: Ähtäri, Finland

Year	Mnth	Mandatory												Option									
		Climate			Gases			Precipitation						Precipitation					Gases	Particle	Particles Deposition		
		Temp C	RH %	Sun MJ/m ²	SO ₂ µg/m ³	NO ₂ µg/m ³	O ₃ µg/m ³	mm	pH	SO4-S mg/l	NO3-N mg/l	Cl mg/l	Cond µS/cm	NH4-N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l	HNO3 µg/m ³	Conc µg/m ³	Cl mg/m ² d	SO4-S mg/m ² d	NO3-N mg/m ² d
1997	11	-2.2	88	23	0.6	3.9	42	40.6	4.38	0.45	0.37	0.13	21.0	0.16	0.06	0.05	0.01	0.06					
1997	12	-5.1	87	8	1.0	5.2	48	27.5	4.53	0.24	0.31	0.14	15.0	0.08	0.07	0.03	0.01	0.04					
1998	1	-4.8	87	20	1.1	3.5	50	65.6	4.63	0.22	0.26	0.18	12.0	0.08	0.10	0.04	0.02	0.04					
1998	2	-8.6	79	70	3.0	4.2	70	59.9	4.65	0.19	0.32	0.33	13.0	0.15	0.17	0.05	0.03	0.05					
1998	3	-7.7	72	263	2.0	4.2	81	39.8	4.76	0.19	0.16	0.17	9.0	0.06	0.08	0.06	0.01	0.03					
1998	4	0.3	63	360	1.4	3.5	92	13.4	4.61	0.36	0.21	0.12	12.0	0.14	0.06	0.07	0.01	0.04					
1998	5	7.2	71	475	0.3	2.2	72	43.8	4.93	0.38	0.20	0.08	10.0	0.27	0.05	0.13	0.02	0.13					
1998	6	12.5	76	506	0.3	1.9	63	115.0	4.87	0.30	0.15	0.10	10.0	0.17	0.07	0.11	0.02	0.22					
1998	7	15.4	77	512	0.1	1.6	58	97.7	4.89	0.20	0.14	0.13	8.0	0.11	0.08	0.08	0.02	0.09					
1998	8	12.1	85	322	0.1	1.6	44	118.3	4.86	0.18	0.12	0.05	7.0	0.11	0.03	0.01	0.00	0.03					
1998	9	9.2	84	239	0.3	2.2	52	37.3	4.84	0.43	0.28	0.18	12.0	0.26	0.12	0.22	0.03	0.20					
1998	10	3.8	89	91	0.2	2.2	52	82.9	4.71	0.21	0.23	0.24	11.0	0.10	0.13	0.04	0.02	0.06					
1998	11	-4.8	90	23	1.1	3.8	45	17.6	4.49	0.37	0.35	0.25	19.0	0.15	0.14	0.06	0.02	0.04					
1998	12	-5.8	90	11	1.2	3.8	49	55.9	4.61	0.23	0.27	0.20	13.0	0.09	0.11	0.03	0.02	0.04					
1999	1	-10.1	87	21	1.8	3.9	54	39.4	4.45	0.26	0.45	0.16	18.0	0.08	0.07	0.04	0.01	0.04					
1999	2	-9.7	85	62	2.2	4.9	67	47.5	4.68	0.16	0.25	0.19	11.0	0.06	0.10	0.04	0.02	0.04					
1999	3	-3.0	81	203	2.1	7.2	86	34.2	4.53	0.39	0.46	0.18	19.0	0.29	0.07	0.09	0.02	0.04					
1999	4	3.8	70	362	0.6	3.3	89	22.9	4.41	0.73	0.56	0.14	25.0	0.45	0.05	0.17	0.03	0.06					
1999	5	5.8	63	560	0.3	2.3	87	30.5	4.67	0.48	0.32	0.19	16.0	0.33	0.13	0.13	0.03	0.05					
1999	6	16.9	64	612	0.3	2.6	86	17.4	4.71	0.32	0.26	0.10	12.0	0.20	0.06	0.09	0.02	0.10					
1999	7	15.9	71	581	0.2	1.6	52	97.5	4.74	0.31	0.21	0.12	11.0	0.20	0.07	0.08	0.02	0.03					
1999	8	11.9	77	421	0.2	1.3	56	92.1	4.83	0.18	0.14	0.05	8.0	0.12	0.03	0.02	0.01	0.03					
1999	9	9.3	82	288	0.4	2.0	55	33.4	4.70	0.23	0.22	0.09	10.0	0.12	0.04	0.03	0.01	0.02					
1999	10	4.8	87	70	0.2	2.0	46	125.2	4.82	0.34	0.20	0.12	10.0	0.20	0.06	0.13	0.02	0.05					
1999	11	0.4	87	23	0.5	3.0	47	46.8	4.62	0.33	0.30	0.43	15.0	0.22	0.25	0.06	0.03	0.05					
1999	12	-5.7	88	9	1.0	3.9	51	70.8	4.66	0.27	0.16	0.24	12.0	0.07	0.14	0.03	0.02	0.03					
2000	1	-5.6	87	20	0.6	3.3	61	52.2	4.75	0.16	0.22	0.58	11.0	0.07	0.36	0.04	0.04	0.04					
2000	2	-5.0	85	80	0.7	3.0	64	31.0	4.56	0.22	0.41	0.49	16.0	0.12	0.29	0.07	0.04	0.05					

Year	Mnth	Mandatory												Option									
		Climate			Gases			Precipitation						Precipitation					Gases	Particle	Particles Deposition		
		Temp C	RH %	Sun MJ/m ²	SO ₂ µg/m ³	NO ₂ µg/m ³	O ₃ µg/m ³	mm	pH	SO ₄ -S mg/l	NO ₃ -N mg/l	Cl mg/l	Cond µS/cm	NH ₄ -N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l	HNO ₃ µg/m ³	Conc µg/m ³	Cl mg/m ² d	SO ₄ -S mg/m ² d	NO ₃ -N mg/m ² d
2000	3	-4.4	76	253	0.5	2.3	79	53.7	4.75	0.16	0.21	0.20	9.0	0.06	0.11	0.03	0.02	0.03					
2000	4	3.0	74	347	0.4	2.6	76	38.8	4.57	0.88	0.52	0.16	22.0	0.63	0.06	0.42	0.04	0.06					
2000	5	9.4	58	563	0.6	2.3	80	39.8	4.95	0.39	0.20	0.11	10.0	0.30	0.05	0.07	0.03	0.37					
2000	6	13.1	66	516	0.3	1.0	70	51.0	4.83	0.33	0.26	0.15	11.0	0.21	0.09	0.16	0.03	0.09					
2000	7	15.9	71	532	0.2	0.7	56	102.7	4.88	0.16	0.09	0.05	7.0	0.07	0.02	0.04	0.01	0.02					
2000	8	13.1	79	447	0.2	1.8	44	90.9	4.95	0.13	0.08	0.06	6.0	0.06	0.03	0.01	0.01	0.02					
2000	9	7.2	79	295	0.3	2.0	46	15.7	4.66	0.40	0.28	0.15	14.0	0.23	0.08	0.12	0.03	0.04					
2000	10	7.1	87	71	0.6	3.9	49	57.5	4.65	0.43	0.26	0.16	14.0	0.20	0.08	0.11	0.02	0.05					
2000	11	2.2	95	15	0.4		36	105.2	4.65	0.25	0.21	0.08	11.0	0.11	0.03	0.03	0.01	0.02					
2000	12	-1.0	94	6	0.5	5.3	41	54.1	4.55	0.26	0.33	0.28	15.0	0.12	0.16	0.04	0.02	0.03					
2001	1	-4.1	93	19	1.1	5.7	45	29.9	4.5	0.32	0.38	0.23	18.0	0.14	0.12	0.04	0.02	0.04					
2001	2	-11.1	83	85	2.9	4.0	62	62.7	4.8	0.09	0.21	0.22	9.0	0.04	0.12	0.03	0.02	0.01					
2001	3	-7.4	78	235	1.7	4.0	74	29.3	4.6	0.28	0.38	0.18	16.0	0.15	0.08	0.09	0.02	0.05					
2001	4	3.5	79	322	0.5	2.7	77	72.3	4.9	0.63	0.32	0.14	14.0	0.39	0.12	0.46	0.05	0.06					
2001	5	7.1	67	503	0.3	2.3	77	68.0	4.8	0.39	0.23	0.11	11.0	0.31	0.06	0.10	0.02	0.04					
2001	6	13.4	70	562	0.3	2.1	69	74.7	5.0	0.12	0.08	0.07	5.0	0.05	0.04	0.03	0.01	0.06					
2001	7	17.8	74	569	0.4	1.9	65	82.1	4.8	0.31	0.16	0.10	10.0	0.20	0.05	0.04	0.01	0.04					
2001	8	13.9	77	475	0.3	1.5	50	57.5	4.8	0.22	0.14	0.09	9.0	0.10	0.06	0.06	0.01	0.03					
2001	9	10.0	84	213	0.4	2.0	49	112.9	4.9	0.17	0.10	0.05	7.0	0.10	0.02	0.05	0.01	0.02					
2001	10	5.5	90	68	0.2	2.5	43	96.0	4.9	0.15	0.15	0.18	7.0	0.10	0.11	0.07	0.02	0.03					

Site 7: Waldhof-Langenbrügge, Federal Republic of Germany

Year	Mo	Mandatory													Option							
		Climate			Gases			Precipitation							Precipitation				Gases	Particle	Particles Deposition	
		Temp C	RH %	Sun rad MJ/m ²	SO ₂ µg/m ³	NO ₂ µg/m ³	O ₃ µg/m ³	mm	pH	SO ₄ -S mg/l	NO ₃ -N mg/l	Cl mg/l	Cond µS/cm	NH ₄ -N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l	HNO ₃ µg/m ³	Conc µg/m ³	Cl mg/m ² d	SO ₄ -S mg/m ² d
1997	11	3.9	92	69	5.2	13.3	23	62.5	5.20	0.44	0.35	0.17	10.9	0.20	0.05	0.28	0.28	0.12		30.1		0.8
1997	12	2.3	92	36	3.9	13.4	24	51.5	4.80	0.77	0.70	1.18	23.0	0.51	0.59	0.55	0.15	0.14		21.3		0.7
1998	1	3.5	90	66	2.4	11.4	38	52.9	5.00	0.51	0.50	1.63	18.5	0.40	0.94	0.37	0.16	0.13		14.2		0.7
1998	2	5.9	83	98	4.1	17.3	39	13.2	5.80	1.00	0.75	2.64	25.1	1.03	1.44	0.65	0.20	0.19		36.9		0.7
1998	3	5.7	80	233	2.4	7.4	56	60.2	5.30	0.53	0.49	0.83	15.9	0.47	0.42	0.40	0.15	0.11		18.6		0.9
1998	4	9.1	83	282	1.2	6.4	56	70.0	5.00	0.85	0.99	0.38	24.4	1.36	0.12	0.61	0.15	0.16		19.1		0.7
1998	5	13.4	70	573	0.7	5.3	74	18.8	4.90	1.34	0.79	0.58	30.9	1.29	0.22	0.93	0.24	0.18		33.3		0.6
1998	6	16.1	78	495	0.7	5.9	60	108.1	5.00	0.73	0.67	0.31	18.8	0.73	0.18	0.65	0.12	0.09		15.1		0.6
1998	7	16.0	78	484	0.5	5.2	57	80.5	5.00	0.75	0.70	0.57	18.4	0.75	0.30	0.51	0.11	0.10		14.6		0.8
1998	8	16.2	75	459	0.8	5.4	64	66.5	5.50	0.45	0.36	0.91	13.0	0.42	0.46	0.44	0.10	0.19		15.9		0.5
1998	9	13.4	85	173	1.3	5.9	40	50.1	5.00	0.73	0.58	0.31	19.3	0.73	0.10	0.55	0.10	0.09		19.3		
1998	10	8.4	85	136	1.5	7.5	44	151.4	5.00	0.49	0.37	0.92	13.5	0.31	0.49	0.40	0.11	0.09		12.6		
1998	11	1.2	93	73	3.1	15.3	21	57.5	4.90	0.58	0.63	1.55	22.0	0.50	0.80	0.53	0.19	0.11		22.9		
1998	12	1.1	87	46	3.6	15.5	34	43.2	5.40	0.57	0.47	1.17	17.0	0.51	0.60	0.44	0.15	0.13		22.4		
1999	1	2.9	88	56	1.8	11.3	36	35.0	4.87	0.81	0.97	1.69	27.7	0.79	0.87	0.64	0.18	0.03		16.6		
1999	2	1.3	89	101	1.4	10.3	52	51.5	5.25	1.07	0.61	8.30	42.6	0.59	4.40	0.66	0.43	0.15		18.6		
1999	3	5.2	80	240	1.8	8.1	57	32.8	5.15	0.53	0.77	0.70	17.5	0.37	0.29	0.73	0.15	0.15		22.9		
1999	4	9.3	74	417	1.0	6.2	70	24.3	5.91	0.78	0.80	0.67	18.8	1.10	0.28	0.65	0.13	0.20		24.2		
1999	5	13.6	67	577	0.8	5.5	76	57.2	5.56	0.69	0.72	0.49	17.7	1.11	0.22	0.69	0.12	0.17		27.0		
1999	6	15.3	69	554	0.5	5.1	67	35.1	5.40	0.64	0.66	0.25	15.1	0.68	0.10	0.72	0.11	0.08		13.1		
1999	7	19.6	64	626	0.5	5.2	76	32.7	5.01	0.93	0.87	0.47	24.2	1.11	0.16	0.67	0.20	0.16		17.2		
1999	8	17.3	71	466	0.7	6.0	69	59.1	5.70	0.56	0.60	0.53	15.1	0.72	0.27	0.52	0.14	0.08		17.9		
1999	9	17.0	73	380	1.7	8.0	66	38.4	5.38	0.42	0.50	0.22	11.4	0.32	0.10	0.55	0.11	0.05		27.5		
1999	10	9.1	84	192	1.6	9.2	36	36.2	5.32	0.70	0.68	0.73	17.7	0.61	0.35	0.80	0.21	0.08		14.8		
1999	11	4.2	88	85	1.6	15.9	24	11.6	5.62	1.03	1.13	1.56	26.3	1.24	0.75	0.89	0.26	0.18		19.3		
1999	12	2.9	88	43	1.0	9.6	45	92.4	5.32	0.52	0.51	1.84	18.4	0.36	1.02	0.43	0.22	0.06		10.4		
2000	1	1.9	87	50	2.2	13.5	39	39.5	5.23	0.61	0.71	3.15	25.4	0.73	1.60	0.68	0.15	0.15		20.0		

Year	Mo	Mandatory													Option								
		Climate			Gases			Precipitation							Precipitation				Gases	Particle	Particles Deposition		
		Temp C	RH %	Sun rad MJ/m2	SO ₂ µg/m ³	NO ₂ µg/m ³	O ₃ µg/m ³	mm	pH	SO4-S mg/l	NO3-N mg/l	Cl mg/l	Cond µS/cm	NH4-N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l	HNO3 µg/m ³	Conc µg/m ³	Cl mg/m ² d	SO4-S mg/m ² d	NO3-N mg/m ² d
2000	2	4.1	83	107	1.0	9.0	48	40.3	4.98	0.70	0.89	3.21	31.7	0.77	1.73	0.70	0.24	0.17		16.9			
2000	3	5.3	85	174	0.7	6.4	61	79.5	5.16	0.62	0.65	1.33	18.8	0.69	0.69	0.54	0.18	0.11		17.2			
2000	4	10.3	72	378	0.8	5.8	74	26.6	5.33	1.10	1.42	0.38	27.0	1.33	0.18	1.34	0.15	0.22		22.4			
2000	5	15.0	63	626	0.7	6.1	83	17.5	5.50	0.87	1.30	0.75	24.4	1.39	0.32	0.90	0.18	0.29		20.3			
2000	6	16.9	66	522	0.5	6.3	82	32.4	5.56	0.69	0.68	0.33	16.9	0.70	0.18	0.77	0.13	0.33		15.6			
2000	7	15.5	77	434	0.4	4.6	58	99.3	4.75	0.54	0.67	0.26	17.1	0.68	0.10	0.48	0.09	0.10		12.5			
2000	8	16.8	74	477	0.5	5.0	57	63.3	4.72	0.53	0.73	0.31	16.2	0.69	0.15	0.40	0.10	0.14		14.7			
2000	9	13.7	82	258	1.1	6.8	44	33.5	4.74	0.65	0.87	0.39	19.5	0.83	0.19	0.68	0.11	0.06		18.4			
2000	10	10.8	84	161	0.9	9.2	33	25.5	5.24	0.63	0.70	0.72	19.0	0.75	0.25	0.71	0.19	0.17		17.1			
2000	11	6.0	87	72	1.0	13.1	28	21.3	5.72	0.54	0.59	0.63	13.2	0.40	0.29	1.00	0.24	0.09		13.4			
2000	12	3.0	89	47	2.6	14.2	29	30.4	4.79	0.47	0.56	2.01	19.8	0.51	1.02	0.65	0.19	0.07		19.5			
2001	1	0.4	93	62	4.4	12.9	30	36.8	5.00	0.25	0.44	0.16	11.4	0.32	0.07	0.25	0.04	0.03		28.1			
2001	2	1.8	85	120	4.6	8.7	48	43.1	4.80	0.48	0.54	0.58	16.9	0.43	0.34	0.25	0.06	0.09		14.9			
2001	3	3.0	82	233	5.0	7.8	58	46.1	4.54	0.65	0.78	0.28	23.2	0.69	0.13	0.21	0.04	0.07		24.0			
2001	4	7.5	76	336	4.6	6.9	67	38.0	5.01	0.71	0.90	0.84	24.7	1.18	0.52	0.27	0.08	0.11		12.7			
2001	5	14.1	65	651	0.9	5.3	79	27.8	5.72	0.69	0.48	0.31	16.3	1.46	0.16	0.40	0.06	0.29		14.6			
2001	6	14.1	75	513	0.6	5.2	66	82.3	4.91	0.52	0.57	0.47	17.3	0.78	0.28	0.18	0.05	0.05		11.1			
2001	7	19.0	70	587	0.7	4.9	68	62.8	5.10	0.41	0.38	0.21	11.9	0.44	0.14	0.35	0.05	0.07		13.2			
2001	8	18.5	73	461	0.8	5.6	67	56.2	5.26	0.41	0.34	0.27	16.8	0.65	0.15	0.21	0.03	0.09		14.5			
2001	9	12.4	87	247	0.6	6.7	41	146.1	4.69	0.30	0.39	0.80	16.1	0.33	0.45	0.10	0.06	0.03		11.3			
2001	10	12.4	85	145	1.4	9.0	31	28.8	4.71	0.49	0.45	1.80	23.8	0.50	1.01	0.20	0.13	0.07		21.6			

Site 9: Langenfeld. Reusrath, Federal Republic of Germany.

Year	Mnth	Mandatory												Option									
		Climate			Gases			Precipitation						Precipitation					Gases	Particle	Particles Deposition		
		Temp C	RH %	Sun MJ/m2	SO2 µg/m ³	NO2 µg/m ³	O3 µg/m ³	mm	pH	SO4-S mg/l	NO3-N mg/l	Cl mg/l	Cond µS/cm	NH4-N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l	HNO3 µg/m ³	Conc µg/m ³	Cl mg/m ² d	SO4-S mg/m ² d	NO3-N mg/m ² d
1997	11	6.3	86	79	9.4	38.0	11	42.9															
1997	12	4.8	85	43	10.3	32.7	17	86.8															
1998	1	4.6	81	61	11.1	37.2	24	36.8															
1998	2	6.3	78	122	15.5	50.1	20	3.6															
1998	3	7.9	76	191	9.2	35.6	39	76.4															
1998	4	9.7	80	230	6.1	33.3	44	96.7															
1998	5	15.5	72	418	7.2	31.8	59	23.5															
1998	6	16.7	80	385	5.8	25.1	49	165.1															
1998	7	16.7	80	317	5.8	25.4	40	74.0															
1998	8	17.6	73	360	7.4	32.1	45	38.7															
1998	9	15.2	85	198	5.5	31.0	30	138.1															
1998	10	10.0	90	90	6.4	30.0	21	147.4	4.92	0.89	0.57	1.55	year	0.59	0.64	0.46	0.07	0.13					
1998	11	3.8	89	81	8.0	40.9	12	98.8															
1998	12	3.9	89	42	7.7	38.3	17	50.0															
1999	1	5.3	85	59	7.1	33.4	21	87.0															
1999	2	3.4	85	91	8.7	34.5	30	54.2															
1999	3	8.1	76	217	6.5	31.7	36	79.5															
1999	4	10.6	74	333	6.3	28.2	48	68.8															
1999	5	15.3	66	451	5.5	27.8	52	37.4															
1999	6	16.2	69	360	5.6	25.2	54	80.2															
1999	7	20.4	67	469	5.2	26.7	59	39.2															
1999	8	18.5	72	359	5.5	29.4	47	79.6															
1999	9	18.6	78	269	5.6	34.0	41	73.6															
1999	10	10.9	84	155	5.8	30.1	20	47.3	5.44	0.85	0.64	1.40	year	0.68	0.93	0.51	0.09	0.13					
1999	11	5.8	87	83	7.0	35.9	11	45.0															
1999	12	4.6	86	49	6.9	34.5	22	115.5															
2000	1	4.0	85	60	<10	40.0	15	53.6															

Year	Mnth	Mandatory												Option									
		Climate			Gases			Precipitation						Precipitation					Gases	Particle	Particles Deposition		
		Temp C	RH %	Sun MJ/m2	SO2 µg/m ³	NO2 µg/m ³	O3 µg/m ³	mm	pH	SO4-S mg/l	NO3-N mg/l	Cl mg/l	Cond µS/cm	NH4-N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l	HNO3 µg/m ³	Conc µg/m ³	Cl mg/m ² d	SO4-S mg/m ² d	NO3-N mg/m ² d
2000	2	5.8	82	109	<10	34.0	28	103.9															
2000	3	7.0	84	163	<10	32.0	33	54.4															
2000	4	11.5	73	334	<10	31.0	43	50.2															
2000	5	15.7	74	419	<10	30.0	50	40.4															
2000	6	17.5	70	486	<10	25.0	55	44.0															
2000	7	15.8	82	309	<10	23.0	36	170.2	4.55	0.93	0.53	0.33	16.5	0.53	0.13	0.16	0.00	0.00					
2000	8	18.8	75	410	<10	31.0	39	89.2	5.07	1.16	0.78	0.13	21.7	0.62	0.45	1.68	0.00	0.11					
2000	9	16.1	85	218	<10	30.0	23	75.4	4.67	1.28	0.53	0.75	20.1	0.59	0.49	1.32	0.00	0.11					
2000	10	11.6	85	140	<10	28.0	21	107.0	5.14	1.00	0.47	0.54	17.4	0.26	0.54	0.60	0.00	0.05					
2000	11	8.2	84	77	<10	32.0	21	56.9	5.01	0.96	0.43	0.97	14.7	0.42	0.13	0.76	0.00	0.00					
2000	12	5.7	84	56	<10	33.0	17	51.0	5.31	1.04	0.44	1.24	18.4	1.03	0.59	0.81	0.00	0.00					
2001	1	3.3	88	77	<10	39.0	17	100.3	5.64	1.06	0.27	0.51	18.1	1.40	0.63	1.09	0.00	0.00					
2001	2	4.9	83	118	<10	35.0	26	76.9	5.48	1.87	0.90	1.00	29.1	1.80	0.88	1.01	0.00	0.00					
2001	3	6.7	83	165	<10	33.0	31	80.2	5.04	0.99	0.68	0.81	19.3	0.92	0.60	1.30	0.00	0.05					
2001	4	9.1	77	282	<10	28.0	53	104.7	5.15	1.13	0.49	1.02	19.7	0.69	0.95	1.33	0.00	0.00					
2001	5	16.4	68	500	<10	26.0	59	21.2	4.81	0.71	0.35	0.32	21.3	0.07	0.34	2.06	0.00	0.29					
2001	6	16.2	72	448	<10	27.0	58	95.2	4.60	0.96	0.64	0.50	26.2	1.24	0.70	1.41	0.00	0.00					
2001	7	20.0	71	442	<10	26.0	54	107.2	5.00	0.88	0.35	0.13	20.4	0.59	0.45	1.53	0.00	0.00					
2001	8	20.3	72	379	<10	30.0	48	86.2	4.98	1.01	0.51	0.29	22.3	0.13	0.44	1.65	0.00	0.07					
2001	9	13.3	86	189	<10	25.0	26	168.8	4.51	1.05	0.48	1.51	21.3	0.99	1.16	0.55	0.00	0.00					
2001	10	14.9	81	162	<10	32.0	20	48.1	5.27	0.81	0.39	0.01	24.8	0.10	0.00	0.10	0.00	0.00					

Site10: Bottrop, Federal Republic of Germany.

Year	Mnth	Mandatory												Option									
		Climate			Gases			Precipitation						Precipitation					Gases	Particle	Particles Deposition		
		Temp C	RH %	Sun MJ/m2	SO ₂ µg/m ³	NO ₂ µg/m ³	O ₃ µg/m ³	mm	pH	SO4-S mg/l	NO3-N mg/l	Cl mg/l	Cond µS/cm	NH4-N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l	HNO3 µg/m ³	Conc µg/m ³	Cl mg/m ² d	SO4-S mg/m ² d	NO3-N mg/m ² d
1997	11	7.1	86	71	29.4	45.5	10	29.9	4.97	1.16	0.62	1.03	21.0	0.75	0.57	0.95	0.10	0.09					
1997	12	5.2	87	37	33.7	39.8	15	100.7	4.66	0.97	0.54	1.38	22.7	0.67	0.71	0.39	0.10	0.08					
1998	1	5.1	82	58	31.4	41.9	21	72.2	4.88	0.83	0.33	2.37	21.9	0.57	1.44	0.38	0.18	0.08					
1998	2	7.3	77	118	34.1	53.1	18	9.2	5.04	5.67	1.83	6.37	83.8	4.35	3.78	2.92	0.59	0.43					
1998	3	8.0	77	187	24.7	37.5	36	82.7	5.19	1.27	0.54	1.90	25.1	1.08	1.11	0.65	0.13	0.07					
1998	4	10.3	81	248	26.2	38.9	36	106.4	4.69	1.22	0.76	0.57	25.5	1.27	0.29	0.58	0.06	0.07					
1998	5	16.1	73	427	17.4	30.9	54	50.3	5.58	1.32	0.66	0.59	22.0	1.58	0.35	0.56	0.08	0.39					
1998	6	17.2	80	364	17.4	32.6	44	135.2	4.78	0.89	0.43	0.43	18.0	0.60	0.26	0.57	0.05	0.08					
1998	7	17.4	79	351	14.9	28.3	40	55.1	5.44	1.55	0.53	1.47	41.0	0.93	1.89	1.10	1.04	0.22					
1998	8	18.1	75	374	17.1	35.2	45	69.7	5.98	1.10	0.44	0.68	20.0	1.30	0.42	0.52	0.07	0.29					
1998	9	15.5	86	207	22.1	39.3	24	157.6	4.86	0.52	0.25	0.62	13.4	0.27	0.36	0.30	0.04	0.07					
1998	10	10.2	90	89	26.2	35.0	19	175.3	4.66	0.73	0.27	1.86	21.5	0.32	1.07	0.63	0.10	0.05					
1998	11	4.2	90	71	25.7	47.0	11	87.6	4.57	0.67	0.29	1.28	21.2	0.22	0.75	0.26	0.07	0.03					
1998	12	4.7	89	39	26.3	43.2	15	56.6	4.51	1.23	0.47	2.28	23.4	0.78	1.22	0.41	0.15	0.06					
1999	1	5.9	87	51	34.3	38.1	20	93.5															
1999	2	3.4	88	73	19.9	38.7	28	59.8															
1999	3	8.1	81	207	21.9	37.6	30	92.6															
1999	4	11.1	78	307	18.4	31.1	45	53.5															
1999	5	15.4	72	467	17.8	32.9	49	80.1															
1999	6	17.0	71	458	14.1	25.8	52	70.8															
1999	7	20.9	70	502	11.4	30.0	56	42.1															
1999	8	18.6	76	356	11.9	34.3	40	88.9															
1999	9	19.1	78	283	17.9	40.0	33	36.3															
1999	10	11.2	85	157	24.9	38.5	15	62.4	5.09	0.98	0.66	1.41	year	0.90	1.09	0.61	0.11	0.14					
1999	11	6.4	90	71	23.2	38.0	12	46.2															
1999	12	4.9	89	41	21.8	36.1	20	147.7															
2000	1	4.5	88	50	27.0	38.0	17	59.3															

Year	Mnth	Mandatory												Option									
		Climate			Gases			Precipitation						Precipitation					Gases	Particle	Particles Deposition		
		Temp C	RH %	Sun MJ/m ²	SO ₂ μg/m ³	NO ₂ μg/m ³	O ₃ μg/m ³	mm	pH	SO4-S mg/l	NO3-N mg/l	Cl mg/l	Cond μS/cm	NH4-N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l	HNO ₃ μg/m ³	Conc μg/m ³	Cl mg/m ² d	SO4-S mg/m ² d	NO3-N mg/m ² d
2000	2	6.2	84	114	30.0	38.0	24	108.2															
2000	3	7.2	87	149	15.0	33.0	34	81.9															
2000	4	11.9	72	362	16.0	33.0	42	48.9															
2000	5	16.5	72	433	18.0	33.0	53	64.1															
2000	6	18.1	71	478	12.0	22.0	57	65.2	5.46	2.50	0.77	0.70	34.2	2.30	0.55	2.21	0.00	0.13					
2000	7	16.4	85	323	11.0	24.0	38	103.6	4.80	2.65	0.59	0.75	32.8	1.60	0.47	0.82	0.00	0.16					
2000	8	19.0	77	395	11.0	31.0	37	79.0	4.87	2.97	0.71	1.36	40.3	1.98	0.86	2.21	0.00	0.41					
2000	9	16.5	86	220	15.0	34.0	21	88.6	4.99	2.43	0.56	1.91	33.5	1.88	1.34	1.55	0.12	0.21					
2000	10	12.1	87	153	20.0	32.0	19	73.8	5.72	2.85	0.56	1.50	38.7	1.91	1.09	3.18	0.00	0.16					
2000	11	9.0	86	86	25.0	34.0	20	58.4	5.38	2.85	0.52	1.22	32.4	0.95	1.64	1.75	0.00	0.13					
2000	12	5.7	88	56	22.0	37.0	15	44.5	5.53	3.26	0.81	3.46	47.3	2.21	2.50	1.42	0.07	0.15					
2001	1	3.6	89	70	21.0	41.0	14	61.6	4.55	2.07	0.55	1.24	29.9	0.70	1.83	0.69	0.00	0.00					
2001	2	5.1	83	109	23.0	37.0	23	77.8	4.81	2.43	0.75	1.56	46.6	1.26	2.26	0.87	0.00	0.00					
2001	3	6.0	83	148	19.0	39.0	24	84.7	4.96	1.90	0.64	0.88	19.7	0.95	1.42	0.57	0.00	0.00					
2001	4	9.2	79	282	16.0	27.0	50	80.4	5.03	2.19	0.63	2.32	33.8	1.73	1.67	2.00	0.07	0.22					
2001	5	16.1	71	498	14.0	26.0	54	50.6	5.22	1.38	0.60	0.72	25.0	0.68	0.58	1.87	0.00	0.20					
2001	6	16.4	74	449	13.0	27.0	53	37.7	6.28	3.18	0.99	2.29	56.5	2.72	1.57	2.28	0.30	0.68					
2001	7	20.3	74	457	13.0	26.0	55	53.3	4.48	1.44	0.44	0.59	25.7	0.12	0.54	1.51	0.00	0.00					
2001	8	20.3	76	382	16.0	33.0	45	77.1	5.25	1.82	0.66	1.09	23.6	1.20	1.38	1.34	0.00	0.05					
2001	9	13.7	88	203	12.0	29.0	23	136.9	4.50	1.70	0.51	1.80	25.2	1.37	1.39	1.91	0.00	0.00					
2001	10	14.9	84	167	21.0	35.0	18	27.6	4.56	1.87	0.45	1.68	28.0	1.07	1.29	2.04	0.00	0.00					

Site 13: Rome, Italy.

Year	Mnth	Mandatory												Option									
		Climate			Gases			Precipitation						Precipitation					Gases	Particle	Particles Deposition		
		Temp C	RH %	Sun MJ/m2	SO ₂ µg/m ³	NO ₂ µg/m ³	O ₃ µg/m ³	mm	pH	SO4-S mg/l	NO3-N mg/l	Cl mg/l	Cond µS/cm	NH4-N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l	HNO3 µg/m ³	Conc µg/m ³	Cl mg/m ² d	SO4-S mg/m ² d	NO3-N mg/m ² d
1997	11	14.9	72	116	3.5	10.2	9	80.0															
1997	12	10.9	72	101	4.1	10.6	6	60.0															
1998	1	11.9	72	124	7.8	45.3	5	123.1															
1998	2	13.1	65	196	11.2	42.3	14	113.4															
1998	3	13.6	56	310	2.8	26.1	35	78.4															
1998	4	17.2	66	420	1.3	34.5	52	128.2															
1998	5	21.6	66	558	1.6	41.2	48	161.2															
1998	6	26.7	59	630	1.2	44.3	54	16.4															
1998	7	29.3	56	682	4.1	51.8	62	2.6															
1998	8	29.8	56	558	3.1	47.2	46	18.4															
1998	9	24.1	66	360	2.5	51.4	39	133.6															
1998	10	19.9	74	248	1.2	48.1	25	210.1															
1998	11	13.6	69	150	16.9	32.4	16	41.8															
1998	12	10.2	68	124	23.9	26.5	5	78.4															
1999	1	10.7	68	155		38.8	8																
1999	2	10.0	64	168		35.9	15																
1999	3	14.1	62	310		61.4	30																
1999	4	17.1	66	360		60.6	41																
1999	5	23.1	67	527		48.8	47																
1999	6	26.7	55	600		48.2	58																
1999	7	28.0	59	589		41.0	53																
1999	8	29.6	62	496		29.8	51																
1999	9	25.5	66	360		40.6	33																
1999	10	20.9	71	248		45.1	15																
1999	11	14.6	71	150		39.8	8																
1999	12	14.5	70	124		24.6	9																
2000	1	10.1	66	155		47.8	6																

Year	Mnth	Mandatory												Option									
		Climate			Gases			Precipitation						Precipitation					Gases	Particle	Particles Deposition		
		Temp C	RH %	Sun MJ/m2	SO ₂ µg/m ³	NO ₂ µg/m ³	O ₃ µg/m ³	mm	pH	SO4-S mg/l	NO3-N mg/l	Cl mg/l	Cond µS/cm	NH4-N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l	HNO3 µg/m ³	Conc µg/m ³	Cl mg/m ² d	SO4-S mg/m ² d	NO3-N mg/m ² d
2000	2	9.9	63	174		41.4	12																
2000	3	12.3	64	248		48.7	28																
2000	4	17.0	65	330		53.3	31																
2000	5	21.4	61	496		55.9	33																
2000	6	25.9	56	540		65.7	40																
2000	7	28.2	55	527		41.2	46																
2000	8	29.3	58	527		38.7	48																
2000	9	26.1	64	390		40.0	24																
2000	10	21.5	70	248		46.0	11																
2000	11	15.2	70	90		34.4	12																
2000	12	14.6	69	93		24.6	6																
2001	1	10.8	77	56		38.8	7	111.6															
2001	2	10.1	68	94		35.7	15	25.0															
2001	3	15.0	73	135		37.4	33	43.6															
2001	4	13.7	66	202		16.0	39	65.6															
2001	5	20.5	63	212		41.5	41	40.0															
2001	6	23.0	56	270		23.0	51	19.2															
2001	7	25.9	56	275		24.0	50	1.0															
2001	8	26.6	58	242		19.0	58	15.2															
2001	9	20.1	64	171		24.0	38	48.2															
2001	10	19.9	73	127		28.0	22	13.4															

Site 14: Casaccia, Italy.

Year	Mnth	Mandatory												Option									
		Climate			Gases			Precipitation						Precipitation					Gases	Particle	Particles Deposition		
		Temp C	RH %	Sun MJ/m ²	SO ₂ μg/m ³	NO ₂ μg/m ³	O ₃ μg/m ³	mm	pH	SO4-S mg/l	NO3-N mg/l	Cl mg/l	Cond μS/cm	NH4-N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l	HNO3 μg/m ³	Conc μg/m ³	Cl mg/m ² d	SO4-S mg/m ² d	NO3-N mg/m ² d
1997	11	10.1	78	270	3.5	10.2	9	38.2															
1997	12	7.2	76	217	4.1	10.6	6	32.1															
1998	1	5.7	75	124	8.5	56.5	4	31.5															
1998	2	9.0	77	252	7.9	4.8	3	42.1															
1998	3	9.3	71	403	6.5	5.7	32	40.2															
1998	4	12.5	82	540	5.9	11.2	53	39.8															
1998	5	17.1	78	651	5.4	15.0	62																
1998	6	21.8	69	720	2.4	31.5	32																
1998	7	24.5	65	744	5.0	38.5	51																
1998	8	21.6	65	589	7.8	25.7	48																
1998	9	19.7	73	420	2.3	24.5	32	164.2															
1998	10	15.6	76	248	2.6	26.0	28	188.4															
1998	11	9.5	79	180	3.0	25.2	12	34.4															
1998	12	6.4	78	155	7.2	20.3	12	88.8															
1999	1	8.5	69	186	5.2	35.1	10	32.4															
1999	2	7.9	66	224	5.8	31.6	18	40.2															
1999	3	11.5	61	341	2.5	19.5	35																
1999	4	14.3	65	420	1.4	23.4	44																
1999	5	21.2	68	496	1.2	30.1	50																
1999	6	23.9	57	630	1.1	33.4	61																
1999	7	25.2	59	620	2.3	38.1	58																
1999	8	26.8	60	558	1.5	37.1	55																
1999	9	22.7	65	450	1.8	41.1	47																
1999	10	18.7	68	403	3.6	38.2	30																
1999	11	11.2	70	330	7.5	22.5	17																
1999	12	11.4	69	217	9.1	24.5	9																
2000	1	8.2	65	186	6.2	25.7	9																
2000	2	7.5	60	174	4.3		14																
2000	3	9.4	62	279	2.7		31																

Year	Mnth	Mandatory											Option										
		Climate			Gases			Precipitation					Precipitation					Gases	Particle	Particles Deposition			
		Temp C	RH %	Sun MJ/m2	SO ₂ μg/m ³	NO ₂ μg/m ³	O ₃ μg/m ³	mm	pH	SO4-S mg/l	NO3-N mg/l	Cl mg/l	Cond μS/cm	NH4-N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l	HNO3 μg/m ³	Conc μg/m ³	Cl mg/m ² d	SO4-S mg/m ² d	NO3-N mg/m ² d
2000	4	14.8	64	360	1.5		35																
2000	5	19.1	60	434	1.3		38																
2000	6	22.5	57	510	1.3		43																
2000	7	26.8	52	496	1.6		48																
2000	8	27.1	55	465	1.2		55																
2000	9	23.4	61	450	1.5		27																
2000	10	19.1	66	341	2.4		12																
2000	11	13.5	65	150	5.8		15																
2000	12	13.2	63	124	7.1		7																
2001	1																						
2001	2																						
2001	3																						
2001	4																						
2001	5																						
2001	6																						
2001	7																						
2001	8																						
2001	9																						
2001	10																						

Site 15: Milan, Italy.

Year	Mnth	Mandatory											Option										
		Climate			Gases			Precipitation					Precipitation					Gases	Particle	Particles Deposition			
		Temp C	RH %	Sun MJ/m2	SO ₂ µg/m ³	NO ₂ µg/m ³	O ₃ µg/m ³	mm	pH	SO4-S mg/l	NO3-N mg/l	Cl mg/l	Cond µS/cm	NH4-N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l	HNO3 µg/m ³	Conc µg/m ³	Cl mg/m ² d	SO4-S mg/m ² d	NO3-N mg/m ² d
1997	11	8.8	81	150	24.5	87.1	9	122.6												46.8			
1997	12	5.1	83	124	31.4	86.1	8	168.8												46.9			
1998	1	4.5	80	155	30.7	89.4	9	56.4												52.3			
1998	2	9.1	66	252	39.1	129.4	16	35.6												75.3			
1998	3	10.3	58	465	19.1	89.1	30	9.1												46.7			
1998	4	12.3	70	390	8.6	74.9	43	120.8												28.1			
1998	5	18.6	61	620	4.6	82.3	57	126.4												36.7			
1998	6	22.4	61	690	4.1	73.5	73	94.6												39.2			
1998	7	24.7	60	744	3.4	64.3	78	89.1												38.3			
1998	8	25.1	59	651	2.6	49.8	81	57.6												32.2			
1998	9	19.1	69	420	4.2	86.7	33	148.2												40.3			
1998	10	14.1	78	279	12.6	94.1	18	47.4												42.8			
1998	11	7.1	75	180	26.1	118.3	13	45.9												63.2			
1998	12	3.3	78	124	39.1	121.9	12	47.1												90.6			
1999	1	4.8	81		34.8	105.2	12	78.2															
1999	2	5.7	53		27.9	88.1	22	0.6															
1999	3	9.8	72		16.1	84.2	25	99.4															
1999	4	13.6	70		7.2	70.7	44	64.0															
1999	5	19.1	71		2.7	61.7	51	46.0															
1999	6	21.6	60		1.7	65.3	66	107.2															
1999	7	24.5	60		2.4	60.4	71	81.6															
1999	8	23.4	70		1.1	47.6	60	190.8															
1999	9	20.6	76	390	4.5	68.0	34	164.2															
1999	10	14.1	82	248	10.7	62.8	19	126.2															
1999	11	7.5	84	150	26.2	76.9	9	112.2															
1999	12	3.5	82	124	37.0	85.2	11	50.0															
2000	1	3.6	78	186	39.6	76.6	12	2.2															
2000	2	7.2	68	232	29.0	115.8	16	3.0															
2000	3	10.6	66	372	13.0	86.0	32	67.6															

Year	Mnth	Mandatory											Option										
		Climate			Gases			Precipitation					Precipitation					Gases	Particle	Particles Deposition			
		Temp C	RH %	Sun MJ/m ²	SO ₂ μg/m ³	NO ₂ μg/m ³	O ₃ μg/m ³	mm	pH	SO ₄ -S mg/l	NO ₃ -N mg/l	Cl mg/l	Cond μS/cm	NH ₄ -N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l	HNO ₃ μg/m ³	Conc μg/m ³	Cl mg/m ² d	SO ₄ -S mg/m ² d	NO ₃ -N mg/m ² d
2000	4	13.6	75	390	7.2	73.7	40	141.8															
2000	5	19.9	67	651	3.2	64.5	61	106.0															
2000	6	23.3	59	720	3.6	62.6	78	43.0															
2000	7	22.8	58	713	3.8	50.8	77	61.2															
2000	8	24.3	64	589	2.5	53.5	76	117.0															
2000	9	20.3	65	450	4.8	65.0	49	66.4															
2000	10	14.4	89	279	10.8	62.0	16	200.4															
2000	11																						
2000	12																						
2001	1	3.9	89	39	34.3	85.2	11	93.0															
2001	2	7.1	76	89	26.8	92.5	14	33.0															
2001	3	10.5	83	107	18.4	84.2	21	162.2															
2001	4	12.6	66	194	12.1	74.5	45	43.0															
2001	5	19.4	70	223	4.9	73.3	48	94.2															
2001	6	22.1	53	286	6.0	66.0	71	26.8															
2001	7	24.2	60	265	5.3	54.0	69	90.8															
2001	8	25.4	60	234	3.7	49.1	79	69.6															
2001	9	17.3	66	167	6.5	65.1	30	66.8															
2001	10	16.4	87	160	10.6	84.3	12	71.8															

Site 16: Venice, Italy.

Year	Mnth	Mandatory											Option										
		Climate			Gases			Precipitation					Precipitation					Gases	Particle	Particles Deposition			
		Temp C	RH %	Sun MJ/m2	SO ₂ μg/m ³	NO ₂ μg/m ³	O ₃ μg/m ³	mm	pH	SO4-S mg/l	NO3-N mg/l	Cl mg/l	Cond μS/cm	NH4-N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l	HNO3 μg/m ³	Conc μg/m ³	Cl mg/m ² d	SO4-S mg/m ² d	NO3-N mg/m ² d
1997	11	8.8	89	150	7.6		30.1	7.40															
1997	12	5.1	91	124	13.1		87.1																
1998	1	4.4	86	124	13.5		31.6																
1998	2	6.9	79	252	11.1		24.0																
1998	3	8.1	77	434	8.6		21.0																
1998	4	11.4	88	420	4.6		49.1	5.90															
1998	5	17.1	79	651	6.8		55.4																
1998	6	21.1	80	720	4.7		100.6																
1998	7	23.4	79	744	4.8		45.1																
1998	8	23.9	73	651	5.1		14.2																
1998	9	18.1	83	450	3.1		115.2																
1998	10	13.6	87	279	5.3		168.8																
1998	11	7.1	77	180	7.9		13.6																
1998	12	2.4	84	124	11.1		13.4																
1999	1	3.3	88	158	5.5	6	33.2																
1999	2	4.4	75	240	10.4	18	19.0																
1999	3	9.2	82	363	5.0	39	41.6																
1999	4	13.1	84	483	3.9	54	90.8																
1999	5	18.3	80	583	3.3	60	32.6																
1999	6	21.1	75	692	3.8	68	137.4																
1999	7	23.2	75	703	3.5	65	101.8																
1999	8	22.6	79	905	2.5	53	29.2																
1999	9	21.9	81	446	4.5	45	31.4																
1999	10	20.1	83	381	4.9	40	80.4																
1999	11	17.8	82	312	7.9	35	56.9																
1999	12	10.3	80	282	5.2	15	92.7																
2000	1	2.1	82	193	7.0	5	0.8																
2000	2	5.1	85	220	12.0	16	7.2																
2000	3	8.7	83	389	5.0	34	55.6																

Year	Mnth	Mandatory											Option										
		Climate			Gases			Precipitation					Precipitation					Gases	Particle	Particles Deposition			
		Temp C	RH %	Sun MJ/m ²	SO ₂ μg/m ³	NO ₂ μg/m ³	O ₃ μg/m ³	mm	pH	SO ₄ -S mg/l	NO ₃ -N mg/l	Cl mg/l	Cond μS/cm	NH ₄ -N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l	HNO ₃ μg/m ³	Conc μg/m ³	Cl mg/m ² d	SO ₄ -S mg/m ² d	NO ₃ -N mg/m ² d
2000	4	14.1	81	484	13.0		17	55.7															
2000	5	19.3	76	659	5.0		41	64.4															
2000	6	22.8	72	760	5.0		42	26.4															
2000	7	22.0	77	719	4.0		53	41.6															
2000	8	24.3	75	631	4.0		62	79.6															
2000	9	20.1	80	451	4.0		58	79.8															
2000	10	15.7	87	213	6.0		5	160.8															
2000	11	10.9	92	135	7.0		5	136.6															
2000	12	7.2	90	118	8.0		4	54.2															
2001	1	5.9	87	44	7.0			75.0															
2001	2	5.5	80		11.2																		
2001	3	10.5	89	109	3.0			134.4															
2001	4	12.6	78	197	6.0			48.8															
2001	5	20.0	75	253	4.0			68.8															
2001	6	21.0	76	275	4.0			59.8															
2001	7	22.9	77		4.1																		
2001	8	25.4	74	240	4.0			42.2															
2001	9	17.5	83	164	16.0			88.6															
2001	10	17.8	88	107	19.0			37.0															

Site 21: Oslo, Norway

Year	Mnth	Mandatory											Option										
		Climate			Gases			Precipitation					Precipitation					Gases	Particle	Particles Deposition			
		Temp C	RH %	Sun MJ/m2	SO ₂ µg/m ³	NO ₂ µg/m ³	O ₃ µg/m ³	mm	pH	SO4-S mg/l	NO3-N mg/l	Cl mg/l	Cond µS/cm	NH4-N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l	HNO3 µg/m ³	Conc µg/m ³	Cl mg/m ² d	SO4-S mg/m ² d	NO3-N mg/m ² d
1997	11	1.4	85		3.9	29.6		49.0															
1997	12	-1.1	89		4.1	29.5	13	36.8	4.73	0.71	0.73	0.85	22.6	0.56	0.48	0.69	0.08	0.08					
1998	1	-1.1	83		5.2	32.9	16	30.3	5.82	0.84	0.63	0.96	19.4	0.54	0.59	1.38	0.10	0.09					
1998	2	1.3	80		4.5	44.7	28	14.4	6.55	1.08	0.45	1.52	10.3	0.57	1.02	2.22	0.15	0.16					
1998	3	0.7	71		4.3	34.1	51	30.0	5.66	1.11	0.92	2.58	30.0	1.09	1.50	1.13	0.22	0.12					
1998	4	4.2	78		2.9	25.0	47	66.0	5.30	1.24	0.79	0.73	25.5	0.91	0.41	1.23	0.11	0.13					
1998	5	11.6	63		2.1	21.6	52	13.5	7.32	0.81	0.67	0.64	42.3	0.75	0.39	4.04	0.17	5.95					
1998	6	13.2	76		5.2	20.0	43	44.1	4.61	1.18	0.67	0.69	26.4	0.36	0.42	1.13	0.12	0.39					
1998	7	15.4	78		6.0	18.5	49	30.6	5.53	0.77	0.52	1.06	18.6	0.41	0.64	0.97	0.11	0.11					
1998	8	14.3	74		4.7	19.3	37	99.2	5.85	0.91	0.44	0.67	21.7	1.10	0.41	0.71	0.12	0.26					
1998	9	12.3	84		2.2	23.9	32	37.2	5.25	0.55	0.33	0.55	13.4	0.46	0.32	0.55	0.07	0.14					
1998	10	5.3	82	2521	3.8	31.3	30	72.0	5.34	0.30	0.28	0.65	10.1	0.26	0.35	0.29	0.06	0.29					
1998	11	-0.7	87		6.5	32.7	17	27.3	4.41	1.33	1.04	2.17	40.7	0.84	1.20	1.04	0.18	0.45					
1998	12	-0.6	81		6.6	40.6	18	53.2	4.50	0.81	0.59	1.85	29.0	0.67	1.16	0.35	0.10	0.44					
1999	1	-2.1	81		6.7	38.3	22	55.0	4.57	0.62	0.45	1.40	22.6	0.42	0.79	0.26	0.09	0.06					
1999	2	-2.1	81		4.6	49.6	33	35.9	5.07	0.48	0.27	0.90	13.3	0.29	0.53	0.42	0.05	0.04					
1999	3	0.4	78		5.8	34.2	39	133.0	4.48	0.67	0.57	0.38	23.5	0.57	0.25	0.15	0.03	0.08					
1999	4	7.1	72		2.8	27.1	55	39.3	4.67	0.60	0.77	0.47	24.2	0.68	0.32	0.35	0.08	0.05					
1999	5	9.6	68		3.5	26.1	69	39.4	4.71	0.83	0.67	0.56	23.3	0.55	0.39	0.62	0.11	0.13					
1999	6	14.0	80		6.3	25.2	56	174.4	4.62	0.56	0.37	0.34	17.7	0.33	0.22	0.13	0.04	0.07					
1999	7	17.4	73		7.6	23.4	54	90.9	4.70	0.41	0.27	0.28	13.7	1.43	0.18	0.17	0.04	0.06					
1999	8	15.9	70		6.4	26.0	50	24.9	4.51	0.98	0.61	0.40	29.4	0.55	0.25	0.64	0.10	0.13					
1999	9	14.1	84		3.4	32.4	41	128.8	4.59	0.62	0.40	0.41	20.6	0.33	0.23	0.21	0.05	0.06					
1999	10	6.7	78	2628	2.6	34.1	16	86.1	4.81	0.43	0.36	0.74	15.9	0.34	0.44	0.15	0.05	0.19					
1999	11	4.2	83		4.6	33.3	39	25.6	4.53	1.15	0.96	2.52	40.4	0.67	1.53	0.65	0.19	0.65					
1999	12	-2.9	77		5.0	39.4	28	64.9	4.91	0.43	0.34	2.59	20.1	0.29	1.44	0.28	0.18	0.09					
2000	1	-0.4	78		4.5	41.9	18	20.6	5.19	0.39	0.34	1.69	15.0	0.30	0.98	0.26	0.11	0.08					

Year	Mnth	Mandatory											Option										
		Climate			Gases			Precipitation					Precipitation					Gases	Particle	Particles Deposition			
		Temp C	RH %	Sun MJ/m ²	SO ₂ μg/m ³	NO ₂ μg/m ³	O ₃ μg/m ³	mm	pH	SO ₄ -S mg/l	NO ₃ -N mg/l	Cl mg/l	Cond μS/cm	NH ₄ -N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l	HNO ₃ μg/m ³	Conc μg/m ³	Cl mg/m ² d	SO ₄ -S mg/m ² d	NO ₃ -N mg/m ² d
2000	2	-0.4	80		4.0	44.2	31	31.0	4.72	0.45	0.48	1.55	21.0	0.29	0.92	0.28	0.10	0.10					
2000	3	2.0	60		3.1	37.8	48	34.2	5.16	0.23	0.29	0.65	10.1	0.19	0.41	0.33	0.04	0.05					
2000	4	6.3	74		2.8	30.6	54	66.6	4.73	1.07	0.92	0.36	24.8	1.03	0.22	0.53	0.06	0.11					
2000	5	12.7	63		2.6	28.8	57	88.5	5.14	0.39	0.29	0.80	13.3	0.46	0.48	0.33	0.09	0.22					
2000	6	13.7	64		3.9	21.6	53	72.9	4.48	0.64	0.50	0.76	21.8	0.25	0.47	0.26	0.07	0.09					
2000	7	16.3	70		2.1	20.7	40	85.2	4.87	0.20	0.13	0.18	7.8	0.06	0.12	0.14	0.02	0.05					
2000	8	15.5	73		3.4	25.2	35	155.9	4.62	0.37	0.25	0.42	13.9	0.21	0.25	0.10	0.04	0.07					
2000	9	11.4	73		2.0	30.6	28	72.6	4.38	0.77	0.65	0.47	26.5	0.62	0.27	0.17	0.04	0.09					
2000	10	9.4	88	2634	3.2	29.7	28	180.3	4.45	0.55	0.54	0.79	23.5	0.45	0.43	0.08	0.06	0.06					
2000	11	5.7	92		1.4	20.8	23	171.4	4.62	0.35	0.41	1.25	18.6	0.29	0.70	0.11	0.09	0.06					
2000	12	0.5	88		2.6	21.3	20	95.7	4.77	0.34	0.40	1.02	15.9	0.31	0.62	0.10	0.08	0.07					
2001	1	-3.1	90		4.5	29.6	16	80.9	4.56	0.46	0.48	0.78	20.1	0.36	0.49	0.20	0.06	0.13					
2001	2	-5.3	71		5.0	31.4	31	26.2	4.81	0.39	0.38	1.33	16.3	0.16	0.73	0.22	0.10	0.06					
2001	3	-1.2	70		3.5	27.9	39	43.8	4.66	0.50	0.50	0.62	17.7	0.41	0.38	0.27	0.04	0.06					
2001	4	4.4	71		2.1	17.8	61	63.1	5.19	0.60	0.72	0.48	17.9	0.93	0.34	0.33	0.07	0.10					
2001	5	11.9	55		2.7	15.4	54	85.8	4.96	0.36	0.35	0.18	11.5	0.34	0.12	0.21	0.03	0.08					
2001	6	14.6	60		1.3	13.6	50	63.3	4.68	0.50	0.41	0.63	17.4	0.25	0.40	0.20	0.06	0.22					
2001	7	17.7	67		3.9	11.2	52	76.1	4.70	0.41	0.32	0.61	15.9	0.25	0.40	0.21	0.05	0.08					
2001	8	15.8	72		4.3	16.0	36	96.5	4.82	0.40	0.33	0.37	13.0	0.25	0.24	0.16	0.03	0.12					
2001	9	10.9	79		2.5	21.3	28	96.9	4.94	0.33	0.19	0.29	9.9	0.15	0.16	0.16	0.03	0.06					
2001	10	8.6	86	2617	3.2	23.1	19	150.5	4.60	0.53	0.51	0.92	21.6	0.44	0.57	0.12	0.08	0.06					

Site 23: Birkenes, Norway.

Year	Mnth	Mandatory												Option									
		Climate			Gases			Precipitation						Precipitation					Gases	Particle	Particles Deposition		
		Temp C	RH %	Sun MJ/m2	SO ₂ µg/m ³	NO ₂ µg/m ³	O ₃ µg/m ³	mm	pH	SO4-S mg/l	NO3-N mg/l	Cl mg/l	Cond µS/cm	NH4-N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l	HNO ₃ µg/m ³	Conc µg/m ³	Cl mg/m ² d	SO4-S mg/m ² d	NO3-N mg/m ² d
1997	11	0.5	84		0.4	3.5	37	181.7	4.44	0.69	0.63	1.99	28.9	0.59	1.14	0.09	0.14	0.10					
1997	12	-0.8	89		0.4	4.0	32	155.6	4.24	0.81	0.79	1.62	36.3	0.55	0.91	0.06	0.10	0.09					
1998	1	-1.7	84		0.1	1.0	47	142.2	4.57	0.42	0.45	1.35	20.7	0.32	0.79	0.05	0.09	0.06					
1998	2	3.1	82		0.1	0.6	66	40.7	4.74	0.64	0.27	6.83	35.9	0.25	3.95	0.20	0.45	0.21					
1998	3	0.6	69		0.2	0.8	71	89.9	4.55	0.71	1.01	2.79	33.6	0.98	1.55	0.14	0.19	0.09					
1998	4	3.0	85		0.3	0.5	72	225.4	4.51	0.74	0.49	1.34	25.4	0.50	0.70	0.10	0.09	0.08					
1998	5	10.8	71		0.2	0.4	73	82.5	4.48	0.86	0.39	0.46	21.4	0.53	0.25	0.12	0.03	0.08					
1998	6	12.2	75		0.2	0.6	62	178.9	4.57	0.51	0.41	0.78	19.3	0.38	0.42	0.06	0.05	0.05					
1998	7	14.4	74		0.2	0.5	55	171.6	4.55	0.47	0.33	0.88	19.6	0.28	0.46	0.06	0.06	0.04					
1998	8	12.5	73		0.1	0.3	48	75.7	4.51	0.42	0.20	0.68	17.2	0.30	0.38	0.04	0.04	0.04					
1998	9	11.2	85		0.2	0.5	45	173.8	4.39	0.85	0.48	1.04	40.0	0.51	0.60	0.46	0.12	0.10					
1998	10	5.5	80	2626	0.1	0.3	57	226.4	4.73	0.29	0.19	1.82	16.0	0.14	1.01	0.04	0.11	0.07					
1998	11	-2.3	87		0.2	1.3	41	106.1	4.15	1.08	0.98	3.39	49.4	0.65	1.87	0.10	0.22	0.13					
1998	12	-0.1	81		0.2	0.7	52	82.4	4.18	0.83	0.47	5.67	54.1	0.45	3.29	0.13	0.43	0.18					
1999	1	-1.3	93		0.3	2.7	56	225.0	4.55	0.57	0.47	3.78	34.6	0.30	2.05	0.11	0.27	0.13					
1999	2	-2.0	80		0.2	1.5	67	101.7	4.92	0.27	0.13	2.22	15.3	0.11	1.21	0.05	0.14	0.05					
1999	3	1.1	86		0.5	2.5	75	154.9	4.43	0.81	0.62	1.39	31.4	0.68	0.82	0.07	0.09	0.07					
1999	4	5.8	76		0.3	1.2	75	81.7	4.78	0.22	0.25	0.38	13.0	0.22	0.24	0.03	0.02	0.04					
1999	5	8.0	72		0.4	1.5	75	89.4	4.73	0.45	0.30	1.04	17.2	0.27	0.62	0.11	0.07	0.07					
1999	6	12.3	79		0.3	1.3	67	217.2	4.60	0.48	0.37	0.51	18.5	0.35	0.33	0.05	0.04	0.04					
1999	7	16.1	72		0.3	1.3	60	42.1	4.46	0.61	0.49	0.70	24.0	0.40	0.41	0.08	0.05	0.06					
1999	8	14.4	82		0.2	1.2	54	181.0	4.80	0.41	0.33	1.16	15.9	0.31	0.60	0.08	0.07	0.05					
1999	9	13.2	89		0.4	1.8	47	224.2	4.52	0.73	0.48	0.69	24.8	0.47	0.36	0.12	0.05	0.07					
1999	10	6.3	90	2735	0.1	1.8	41	182.8	4.51	0.66	0.46	1.81	28.4	0.39	0.97	0.09	0.11	0.06					
1999	11	4.0	90		0.2	2.1	41	123.7	4.39	1.04	0.93	7.78	58.1	0.60	4.38	0.35	0.47	0.17					
1999	12	-1.3	88		0.1	1.6	53	219.5	4.74	0.47	0.28	5.31	29.7	0.16	2.83	0.11	0.30	0.12					
2000	1	0.7	86		0.1	1.7	57	129.0	4.74	0.48	0.25	5.63	31.9	0.11	3.15	0.13	0.36	0.12					

Year	Mnth	Mandatory											Option										
		Climate			Gases			Precipitation					Precipitation					Gases	Particle	Particles Deposition			
		Temp C	RH %	Sun MJ/m2	SO ₂ μg/m ³	NO ₂ μg/m ³	O ₃ μg/m ³	mm	pH	SO4-S mg/l	NO3-N mg/l	Cl mg/l	Cond μS/cm	NH4-N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l	HNO3 μg/m ³	Conc μg/m ³	Cl mg/m ² d	SO4-S mg/m ² d	NO3-N mg/m ² d
2000	2	0.5	90		0.1	2.0	61	152.8	4.55	0.50	0.45	3.41	29.1	0.24	1.87	0.08	0.22	0.08					
2000	3	1.7	74		0.2	1.7	70	62.1	4.76	0.26	0.20	0.82	13.6	0.08	0.47	0.03	0.05	0.04					
2000	4	5.7	85		0.4	1.8	65	109.0	4.58	0.83	0.94	0.46	26.7	1.10	0.25	0.09	0.03	0.04					
2000	5	11.6	71		0.4	1.7	69	138.4	4.64	0.68	0.34	4.44	31.8	0.49	2.55	0.19	0.33	0.18					
2000	6	12.4	73		0.4	1.2	63	78.3	4.55	0.56	0.47	0.78	21.0	0.31	0.46	0.10	0.06	0.04					
2000	7	15.4	76		0.1	1.2	47	155.2	4.91	0.22	0.18	0.30	8.8	0.15	0.19	0.07	0.05	0.01					
2000	8	14.1	79		0.2	1.1	47	79.84	4.62	0.53	0.49	0.72	19.6	0.58	0.37	0.08	0.05	0.07					
2000	9	10.9	87		0.3	1.7	44	218.6	4.50	0.60	0.51	1.65	25.6	0.56	0.89	0.07	0.12	0.07					
2000	10	8.9	94	2737	0.2	2.3	40	352.6	4.48	0.71	0.49	5.64	39.7	0.42	2.99	0.16	0.37	0.14					
2000	11	5.0	97		0.2	2.3	39	734.9	4.51	0.44	0.46	2.32	24.9	0.24	1.20	0.07	0.15	0.07					
2000	12	1.0	93		0.2	3.8	38	204.3	4.57	0.46	0.44	3.23	26.2	0.21	1.79	0.09	0.21	0.08					
2001	1	-2.1	95		0.5	3.3	44	283.1	4.47	0.56	0.43	1.80	27.7	0.30	1.05	0.05	0.12	0.07					
2001	2	-4.2	78		0.7	1.1	65	54.1	4.63	0.44	0.35	2.85	25.2	0.14	1.72	0.07	0.21	0.08					
2001	3	-2.4	83		0.6	2.1	65	63.5	4.44	0.66	0.54	1.87	30.6	0.37	1.05	0.10	0.13	0.06					
2001	4	3.1	80		0.2	1.7	72	139.3	4.82	0.45	0.65	0.46	18.9	0.93	0.29	0.06	0.04	0.04					
2001	5	10.6	66		0.4	0.7	72	51.3	4.80	0.50	0.54	0.71	18.4	0.63	0.45	0.17	0.04	0.15					
2001	6	13.1	70		0.2	1.0	61	76.7	4.62	0.55	0.44	0.53	17.5	0.48	0.30	0.07	0.04	0.07					
2001	7	16.3	75		0.3	1.2	50	93.8	4.74	0.56	0.31	1.43	20.1	0.38	0.84	0.13	0.10	0.08					
2001	8	14.6	81		0.2	1.3	44	184.2	4.87	0.33	0.29	0.72	13.8	0.26	0.44	0.09	0.05	0.05					
2001	9	10.7	84		0.2	1.4	42	126.1	4.63	0.53	0.39	0.88	20.4	0.39	0.52	0.08	0.06	0.06					
2001	10	9.7	91	2706	0.4	2.2	46	321.2	4.68	0.48	0.44	1.92	22.8	0.39	1.19	0.09	0.14	0.06					

Site 24: Stockholm South, Sweden.

Year	Mnth	Mandatory												Option									
		Climate			Gases			Precipitation						Precipitation					Gases	Particle	Particles Deposition		
		Temp C	RH %	Sun MJ/m2	SO ₂ µg/m ³	NO ₂ µg/m ³	O ₃ µg/m ³	mm	pH	SO4-S mg/l	NO3-N mg/l	Cl mg/l	Cond µS/cm	NH4-N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l	HNO ₃ µg/m ³	Conc µg/m ³	Cl mg/m ² d	SO4-S mg/m ² d	NO3-N mg/m ² d
1997	11	1.2	81	47	3.7	24.0	23	44.0	4.25	1.09	0.64	0.52	33.0	0.57	0.22	0.13	0.03	0.07					
1997	12	-0.1	86	11	4.5	24.1	21	47.0	4.31	0.79	0.51	0.65	29.0	0.40	0.34	0.09	0.03	0.06					
1998	1	0.3	84	35	4.2	21.7	33	40.0	4.59	0.35	0.43	0.52	16.5	0.36	0.29	0.05	0.03	0.04					
1998	2	1.5	79	76	3.0	20.0	47	30.0	4.78	0.31	0.28	0.69	12.8	0.25	0.39	0.11	0.04	0.02					
1998	3	0.2	69	220	3.7	25.5	55	9.0	4.84	0.62	0.46	0.85	16.9	0.65	0.42	0.23	0.04	0.05					
1998	4	3.7	73	333	3.6	21.5	63	32.0	4.49	1.01	0.49	0.57	25.5	0.80	0.16	0.22	0.04	0.07					
1998	5	10.5	59	581	2.1	16.9	66	29.0	5.14	0.87	0.38	0.19	14.2	0.76	0.09	0.29	0.05	0.15					
1998	6	13.1	73	435	1.0	15.9	53	20.0	4.86	0.45	0.31	0.23	11.9	0.33	0.13	0.23	0.04	0.05					
1998	7	16.1	72	522	0.7	19.2	52	15.0	4.98	0.24	0.32	0.13	8.9	0.25	0.10	0.17	0.03	0.03					
1998	8	14.4	73	403	0.7	12.9	45	18.0	5.56	0.29	0.24	0.22	8.1	0.30	0.14	0.18	0.03	0.03					
1998	9	12.7	78	264	1.4	20.4	39	41.0	4.84	0.47	0.29	0.22	12.7	0.34	0.12	0.18	0.03	0.04					
1998	10	6.9	82	121	2.3	21.7	33	138.0	4.83	0.29	0.29	0.57	11.8	0.29	0.32	0.09	0.04	0.03					
1998	11	0.2	83	43	4.0	23.3	29	17.0	4.46	0.77	0.67	0.58	25.6	0.55	0.29	0.27	0.05	0.05					
1998	12	0.3	86	18	3.9	22.3	35	37.0	4.41	0.46	0.40	0.83	19.5	0.26	0.40	0.14	0.04	0.02					
1999	1	-1.4	86	36	5.5	21.7	35	48.0	4.63	0.35	0.37	0.65	15.6	0.29	0.39	0.08	0.04	0.02					
1999	2	-1.4	82	100	5.0	29.7	42	26.0	4.80	0.36	0.34	0.62	12.8	0.36	0.35	0.10	0.04	0,08					
1999	3	1.7	84	182	4.3	20.1	56	50.0	4.45	0.69	0.60	0.33	22.8	0.69	0.17	0.13	0.02	0,08					
1999	4	7.2	77	371	2.3	18.6	61	61.0	4.84	0.40	0.30	0.27	12.5	0.42	0.18	0.12	0.04	0.03					
1999	5	9.9	65	629	2.7	14.3	73	20.0	4.75	0.29	0.17	0.08	8.8	0.22	0.09	0.15	0.03	0.02					
1999	6	16.9	70	671	2.3	15.2	76	41.0	4.67	0.41	0.27	0.12	14.5	0.16	0.08	0.16	0.03	0.02					
1999	7	19.7	66	686	2.1	11.5	63	17.0	4.82	0.42	0.25	0.36	11.8	0.26	0.23	0.12	0.04	0.06					
1999	8	16.8	69	498	2.6	19.0	53	69.0	4.90	0.30	0.24	0.18	9.4	0.27	0.09	0.09	0.02	0.02					
1999	9	15.6	77	306	1.9	20.8	53	56.0	4.88	0.42	0.18	0.09	9.1	0.33	0.04	0.09	0.01	0.04					
1999	10	8.1	81	134	2.2	17.9	35	37.0	4.69	0.55	0.42	0.63	15.9	0.28	0.34	0.41	0.08	0.04					
1999	11	4.7	82	52	3.7	21.3	33	23.0	4.26	1.23	0.98	0.86	36.2	1.03	0.46	0.29	0.08	0.08					
1999	12	-1.0	84	27	4.2	20.5	36	62.0	4.67	0.31	0.28	0.71	13.5	0.21	0.37	0.04	0.04	0.03					
2000	1	-0.4	79	48	4.4	22.1	37	10.0	4.50	0.48	0.54	1.17	22.1	0.21	0.75	0.31	0.11	0.21					

Year	Mnth	Mandatory												Option									
		Climate			Gases			Precipitation						Precipitation					Gases	Particle	Particles Deposition		
		Temp C	RH %	Sun MJ/m ²	SO ₂ μg/m ³	NO ₂ μg/m ³	O ₃ μg/m ³	mm	pH	SO4-S mg/l	NO3-N mg/l	Cl mg/l	Cond μS/cm	NH4-N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l	HNO ₃ μg/m ³	Conc μg/m ³	Cl mg/m ² d	SO4-S mg/m ² d	NO3-N mg/m ² d
2000	2	0.5	81	108	3.3	22.3	42	10.0	4.67	0.34	0.50	1.41	19.2	0.30	0.95	0.24	0.11	0.16					
2000	3	2.0	68	321	3.0	20.2	60	16.0	4.86	0.31	0.40	0.89	13.1	0.30	0.57	0.20	0.07	0.12					
2000	4	6.7	74	368	1.8	21.1	63	24.0	4.63	0.90	0.66	0.35	20.5	0.77	0.19	0.60	0.07	0.11					
2000	5	12.3	66	581	0.7	17.2	69	37.0	4.78	0.48	0.36	0.27	14.8	0.18	0.15	0.25	0.07	0.54					
2000	6	14.4	69	599	0.9	13.3	63	32.0	5.72	0.22	0.00	0.20	5.0	0.00	0.14	0.22	0.04	0.59					
2000	7	16.1	80	439	0.6	13.1	49	128.0	4.74	0.17	0.14	0.08	10.3	0.01	0.05	0.04	0.02	0.03					
2000	8	16.1	77	477	0.6	15.5	45	24.0	4.72	0.34	0.31	0.27	11.2	0.19	0.15	0.22	0.04	0.24					
2000	9	11.9	77	340	1.4	20.8	40	13.0	4.57	0.78	0.26	0.49		0.12	0.21	0.44	0.08	0.18					
2000	10	10.5	87	96	1.6	18.2	37	75.0	6.33	0.50	0.13	0.58		0.02	0.19	0.10	0.03	3.60					
2000	11	6.8	90	26	2.0	18.8	24	104.0	4.36	0.45	0.31	0.45		0.12	0.22	0.08	0.03	0.14					
2000	12	2.9	89	16	1.8	19.3	29	36.0	4.52	0.29	0.33	0.60		0.10	0.28	0.07	0.04	0.05					
2001	1	0.0	87	29	3.7	23.7	27	45.0	4.35	0.48	0.47	0.67	26.5	0.26	0.32	0.11	0.06	0.07					
2001	2	-3.4	79	119	4.1	19.7	44	17.0	4.69	0.37	0.34	0.75	15.6	0.20	0.50	0.24	0.06	0.09					
2001	3	-0.5	77	241	2.8	18.9	55	3.0	4.92	0.89	1.24	1.69	30.9	0.76	1.20	0.55	0.15	1.80					
2001	4	5.8	80	293	1.4	14.6	65	53.0	5.94	1.39	1.13	0.82	32.6	1.62	0.61	1.00	0.12	0.26					
2001	5	11.0	67	498	2.0	15.6	67	25.0	6.19	1.30	0.28	0.59	37.1	2.90	0.47	1.00	0.17	0.84					
2001	6	15.3	72	544	0.8	14.0	63	19.0	5.93	0.87	0.48	0.34	18.6	1.45	0.17	0.47	0.11	1.10					
2001	7	20.0	75	565	1.1	13.5	63	88.0	6.33	0.25	0.23	0.21	19.0	0.99	0.17	0.12	0.07	0.33					
2001	8	17.2	80	399	1.2	15.9	49	77.0	4.79	0.36	0.23	0.21	10.3	0.17	0.12	0.30	0.02	0.09					
2001	9	12.4	86	218	1.3	17.7	40	92.0	5.03	0.20	0.14	0.24	6.9	0.04	0.15	0.28	0.03	0.01					
2001	10	9.9	87	96	0.8	18.6	36	76.0	4.91	0.14	0.18	0.24	7.7	0.06	0.14	0.12	0.02	0.03					

Site 26: Aspvreten, Sweden.

Year	Mnth	Mandatory												Option									
		Climate			Gases			Precipitation						Precipitation					Gases	Particle	Particles Deposition		
		Temp C	RH %	Sun MJ/m ²	SO ₂ µg/m ³	NO ₂ µg/m ³	O ₃ µg/m ³	mm	pH	SO4-S mg/l	NO3-N mg/l	Cl mg/l	Cond µS/cm	NH4-N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l	HNO ₃ µg/m ³	Conc µg/m ³	Cl mg/m ² d	SO4-S mg/m ² d	NO3-N mg/m ² d
1997	11	1.7	95	34	0.9	3.9	35	43.9	4.27	0.29	0.76	0.88	30.4	0.65	0.24	0.32	0.07	0.09					
1997	12	-0.5	95	21	1.0	5.3	34	55.0	4.34	0.15	0.42	0.51	23.2	0.25	0.26	0.14	0.05	0.11					
1998	1	-0.2	93	37	0.6	5.2	42	35.1	4.68	0.29	0.37	0.46	13.4	0.19	0.22	0.15	0.05	0.13					
1998	2	1.5	89	82	0.6	3.5	57	5.0	5.30	0.15	0.14	0.83	6.2	0.08	0.43	0.07	0.06	0.04					
1998	3	-1.2	82	233	0.8	2.3	69	33.7	4.72	0.29	0.30	0.61	12.0	0.19	0.29	0.11	0.06	0.09					
1998	4	2.7	86	340	1.2	2.5	72	33.1	4.80	0.61	0.39	0.71	16.8	0.40	0.22	0.37	0.08	0.09					
1998	5	8.6	78	621	0.5	1.7	43	60.4	4.80	0.71	0.32	0.38	16.0	0.51	0.10	0.34	0.04	0.07					
1998	6	12.2	85	477	0.4	1.7	61	55.8	4.60	0.56	0.33	0.44	18.2	0.34	0.08	0.21	0.03	0.08					
1998	7	14.9	84	576	0.4	1.4	56	41.2	4.70	0.28	0.27	0.34	12.8	0.18	0.12	0.15	0.07	0.14					
1998	8	13.4	76	453	0.2	1.7	49	50.2	4.80	0.40	0.30	0.42	13.4	0.27	0.15	0.28	0.08	0.13					
1998	9	11.4	86	277	0.4	2.2	49	40.7	4.70	0.52	0.26	0.35	15.3	0.30	0.18	0.17	0.07	0.13					
1998	10	5.7	89	150	0.4	3.1	48	25.1	4.50	0.32	0.29	1.89	16.6	0.14	0.50	0.48	0.10	0.12					
1998	11	-1.0	92	44	1.1	3.8	41	17.1	4.40	1.00	0.61	1.68	31.6	0.41	0.37	0.80	0.13	0.19					
1998	12	-1.2	95	21	1.0	4.5	49	29.1	4.30	0.60	0.55	0.33	25.2	0.22	0.18	0.12	0.07	0.13					
1999	1	-2.4	90	22	1.1	4.5	50	30.8	4.59	0.39	0.42	0.79	18.1	0.26	0.33	0.26	0.06	0.06					
1999	2	-2.7	80	84	0.9	4.2	60	17.0	4.45	0.44	0.42	0.76	19.6	0.19	0.43	0.18	0.07	0.06					
1999	3	0.6	88	173	1.3	2.4	73	25.9	4.28	0.87	0.84	0.82	32.2	0.65	0.48	0.23	0.09	0.09					
1999	4	5.7	83	371	0.6	2.1	78	13.9	4.62	0.40	0.33	0.18	13.9	0.33	0.11	0.20	0.05	0.09					
1999	5	7.7	73	601	0.5	1.3	81	16.2	4.69	0.40	0.24	0.23	13.3	0.23	0.16	0.20	0.04	0.09					
1999	6	12.9	80	645	0.8	1.6	81	75.1	4.98	0.42	0.25	0.09	11.6	0.41	0.07	0.23	0.05	0.07					
1999	7	17.6	73	672	0.5	1.3	71	2.9	4.69	0.61	0.61	0.60	16.0	0.51	0.33	0.36	0.08	0.15					
1999	8	14.8	78	470	0.4	1.7	62	39.2	4.75	0.39	0.30	0.70	15.3	0.35	0.19	0.36	0.06	0.16					
1999	9	14.1	85	304	0.7	1.8	64	34.5	4.56	0.77	0.37	0.47	16.9	0.61	0.17	0.31	0.05	0.15					
1999	10	7.4	85	135	0.4	2.6	48	15.4	4.60	0.97	0.60	1.46	25.0	0.67	0.47	0.87	0.10	0.12					
1999	11	3.7	88	41	0.9	3.3	45	23.1	4.20	0.70	0.76	0.90	34.5	0.43	0.41	0.17	0.03	0.05					
1999	12	-1.2	89	16	0.7	3.9	46	45.3	4.64	0.34	0.30	2.69	20.8	0.15	1.60	0.12	0.18	0.06					
2000	1	-1.0	83	49	0.4	4.3	51	10.7	4.49	0.15	0.40	0.24	14.3	0.09	0.14	0.04	0.02	0.04					

Year	Mnth	Mandatory												Option									
		Climate			Gases			Precipitation						Precipitation					Gases	Particle	Particles Deposition		
		Temp C	RH %	Sun MJ/m ²	SO ₂ μg/m ³	NO ₂ μg/m ³	O ₃ μg/m ³	mm	pH	SO4-S mg/l	NO3-N mg/l	Cl mg/l	Cond μS/cm	NH4-N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l	HNO3 μg/m ³	Conc μg/m ³	Cl mg/m ² d	SO4-S mg/m ² d	NO3-N mg/m ² d
2000	2	-0.4	87	120	0.4	3.0	59	18.0															
2000	3	1.0	74	343	0.4	1.7	76	12.6	4.51	0.24	0.44	0.86	16.6	0.19	0.50	0.06	0.04	0.04					
2000	4	5.3	81	410	0.7	1.5	76	10.1	4.75	1.17	0.68	0.70	19.5	0.95	0.27	1.06	0.10	0.07					
2000	5	10.3	74	594	0.5	0.8	79	34.0	4.93	0.71	0.65	0.40	21.0	0.72	0.24	0.26	0.09	0.70					
2000	6	12.8	76	610	0.5	0.7	73	52.0	4.91	0.35	0.29	0.12	13.3	0.34	0.10	0.16	0.04	0.09					
2000	7	15.2	87	495	0.4	1.3	54	127.0															
2000	8	14.3	85	478	0.4	2.0	48	54.0	4.90	0.26	0.22	0.13	8.0	0.35	0.13	0.03	0.01	0.06					
2000	9	9.7	84	341	0.5	2.7	52	36.0	4.62	0.32	0.35	0.17	14.5	0.18	0.12	0.10	0.03	0.05					
2000	10	10.0	92	108	0.5	3.5	49	144.0	4.58	0.65	0.36	0.67	20.2	0.40	0.34	0.22	0.06	0.07					
2000	11	6.6	95	42	0.6	4.5	38	182.0	4.25	0.66	0.47	0.91	26.2	0.46	0.50	0.12	0.07	0.08					
2000	12	2.2	95	31	0.7	4.6	44	77.0	4.40	0.42	0.45	0.54	22.3	0.22	0.34	0.09	0.07	0.03					
2001	1	-1.4	93	24	0.8	4.5	43	94.0	4.16	0.98	0.70	1.50	42.4	0.64	0.80	0.15	0.11	0.10					
2001	2	-4.1	82	109	0.9	3.5	60	33.8	4.49	0.35	0.41	0.59	22.5	0.23	0.34	0.08	0.04	0.04					
2001	3	-1.8	84	238	0.8	2.5	67	27.2	4.16	0.98	1.12	0.73	40.0	0.73	0.41	0.39	0.08	0.08					
2001	4	4.2	84	363	0.7	1.6	70	39.7	4.30	0.94	0.93	0.40	34.4	0.87	0.29	0.40	0.07	0.06					
2001	5	9.1	72	591	0.6	0.9	76	22.3															
2001	6	13.9	77	586	0.4	0.7	71	26.8	5.25	0.71	0.57	0.39	17.5	1.04	0.16	0.06	0.03	0.42					
2001	7	18.0	79	589	0.3	1.0	67	29.3	4.53	0.55	0.41	0.44	19.2	0.40	0.27	0.16	0.06	0.16					
2001	8	15.5	84	438	0.4	1.7	59	70.1	4.60	0.54	0.46	0.26	18.2	0.55	0.16	0.19	0.04	0.05					
2001	9	12.7	91	236	0.5	2.8	48	108.3	4.80	0.21	0.15	0.32	9.9	0.10	0.20	0.08	0.03	0.03					
2001	10	8.5	91	132	0.6	3.6	46	61.2	4.81	0.30	0.30	0.62	12.3	0.21	0.39	0.28	0.07	0.05					

Site 27: Lincoln Cathedral, United Kingdom.

Year	Mnth	Mandatory											Option											
		Climate			Gases			Precipitation					Precipitation					Gases	Particle	Particles Deposition				
		Temp C	RH %	Sun MJ/m2	SO ₂ µg/m ³	NO ₂ µg/m ³	O ₃ µg/m ³	mm	pH	SO4-S mg/l	NO3-N mg/l	Cl mg/l	Cond µS/cm	NH4-N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l	HNO3 µg/m ³	Conc µg/m ³	Cl mg/m ² d	SO4-S mg/m ² d	NO3-N mg/m ² d	
1997	11	8.1	94	77				67.8	5.39	1.33	0.46	2.72		0.61	1.46		0.28	0.12						
1997	12	5.3	87	47				65.5	4.91	1.21	0.36	3.59		1.14	2.01		0.35	0.15						
1998	1	4.6	84	73				49.5	4.41	0.80	0.22	8.57		0.24	5.00		0.74	0.31						
1998	2	7.1	78	169				73.0	5.59	1.48	0.51	7.01		0.85	3.54		0.63	0.23						
1998	3	7.6	80	216				9.3	4.02	1.26	0.43	2.74		0.45	1.48		0.30	0.12						
1998	4	7.7	80	312	9.2	17.1	57.7	94.9	4.05	2.90	1.01	4.22		3.58	2.37		0.32	0.17						
1998	5	12.1	78	535	9.2	17.1	57.7	20.8	5.29	2.66	1.03	1.72		1.58	1.04		0.21	0.09						
1998	6	14.2	81	471	9.0	16.1	49.8	111.9	4.47	1.21	0.34	1.18		1.48	0.65		0.10	0.07						
1998	7	15.6	74	507	4.1	15.7	49.9	23.4	4.86	2.45	0.98	1.54		0.70	0.40		0.11	0.06						
1998	8	15.7	74	470	6.8	19.4	45.3	42.8	5.39	1.33	0.44	1.21		0.78	0.70		0.17	0.08						
1998	9	14.0	84	187	11.6	22.5	46.2	51.1	5.13	3.47	1.42	5.51		1.53	3.08		0.42	0.21						
1998	10	10.1	81	160	8.7	26.0	46.6	97.8	5.87	0.76	0.17	2.09		0.86	1.13		0.19	0.10						
1998	11	5.0	87	83	12.0	41.0	36.1	49.5	5.72	0.98	0.29	3.22		0.52	1.79		0.29	0.14						
1998	12	4.3	87	52	8.9	29.0	36.1	64.3	5.39	1.11	0.33	2.00		0.81	1.13		0.22	0.10						
1999	1	5.0	86	80	14.1	29.5	39.5	95.9																
1999	2	4.8	76	137	15.3	29.8	45	20.6																
1999	3	7.2	79	258	8.9	17.0	64	83.3																
1999	4	9.1	80	423	6.4	17.0	66	70.2																
1999	5	12.6	75	549	5.6	12.0	72	23.1																
1999	6	13.8	76	532	13.7	16.4	52.6	63.2																
1999	7	17.3	73	605	7.9	14.0	61	47.4																
1999	8	16.1	76	393	6.3	20.0	59	68.7																
1999	9	15.8	79	313	9.0	18.7	45	51.7																
1999	10	10.4	83	202	10.0	26.0	40	91.5																
1999	11	7.4	84	64	7.2	34.0	50	96.8																
1999	12	4.0	84	53	8.7	30.0	41	58.1																
2000	1	4.6	85	69	7.8	32.0	36	16.9																

Year	Mnth	Mandatory												Option									
		Climate			Gases			Precipitation						Precipitation					Gases	Particle	Particles Deposition		
		Temp C	RH %	Sun MJ/m ²	SO ₂ μg/m ³	NO ₂ μg/m ³	O ₃ μg/m ³	mm	pH	SO4-S mg/l	NO3-N mg/l	Cl mg/l	Cond μS/cm	NH4-N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l	HNO ₃ μg/m ³	Conc μg/m ³	Cl mg/m ² d	SO4-S mg/m ² d	NO3-N mg/m ² d
2000	2	5.6	79	156	9.3	29.0	53	42.2															
2000	3	7.0	77	278	8.3	20.0	53	18.1															
2000	4	7.6	82	376	4.1	17.0	71	123.0															
2000	5	11.3	81	537	6.2	14.0	74	99.0															
2000	6	14.6	77	554	7.2	11.0	55	41.1															
2000	7	14.5	80	472	12.0	17.0	47	42.8															
2000	8	16.8	75	555	10.1	23.0	49	28.7															
2000	9	14.6	82	311	7.8	12.6	37	96.5															
2000	10	10.0	83	196	7.7	25.3	42	94.7															
2000	11	6.4	88	110	9.8	29.0	41	124.7															
2000	12	4.9	88	70	6.2	31.0	36	59.3															
2001	1	2.6	90	105	10.0	36.0	28	56.0															
2001	2	4.0	84	153	9.5	33.0	37	61.5															
2001	3	4.6	83	270	7.3	24.0	58	51.4															
2001	4	7.3	77	392	5.8	17.0	69	89.5															
2001	5	12.0	73	662	7.3	11.0	66	41.4															
2001	6	14.1	71	580	7.2	13.0	61	39.2															
2001	7	17.1	78	613	8.0	15.6	53	63.7															
2001	8	17.2	76	494	7.1	16.0	51	60.6															
2001	9	12.9	81	270	7.5	21.0	52	110.0															
2001	10	13.0	85	181	4.5	24.0	39	73.4															

Site 31: Madrid, Spain

Year	Mnth	Mandatory											Option										
		Climate			Gases			Precipitation					Precipitation					Gases	Particle	Particles Deposition			
		Temp C	RH %	Sun MJ/m2	SO ₂ µg/m ³	NO ₂ µg/m ³	O ₃ µg/m ³	mm	pH	SO4-S mg/l	NO3-N mg/l	Cl mg/l	Cond µS/cm	NH4-N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l	HNO3 µg/m ³	Conc µg/m ³	Cl mg/m ² d	SO4-S mg/m ² d	NO3-N mg/m ² d
1997	11	9.7	79		4.8	17.7	30	173.5	5.80	0.73	0.25	1.02	12.0	0.19	0.28	0.60	0.08	0.03					
1997	12	6.7	80			26.9	31	50.1	5.95	0.91	0.29	1.14	14.4	0.42	0.26	0.54	0.09	0.06					
1998	1	5.0	81		12.0	27.3	27	76.1	5.80	1.07	0.40	0.93	18.3	0.55	0.34	0.60	0.10	0.09					
1998	2	7.0	78		5.2	22.5	36	0.0															
1998	3	9.5	50		21.8	14.0	52	35.7	6.64	1.02	0.38	1.60	29.3	0.88	1.00	2.19	0.27	0.40					
1998	4	6.9	66		3.1	8.1	74	49.7	6.40	0.52	0.31	1.19	14.7	0.33	0.48	0.98	0.12	0.11					
1998	5	11.4	64		7.9	14.6	70	171.1	6.19	0.71	0.46	0.80	16.6	0.46	0.42	0.99	0.11	0.14					
1998	6	18.1	44		25.0	10.1	75	41.4	6.27	0.65	0.43	0.80	14.7	0.64	0.25	0.93	0.10	0.05					
1998	7	21.7	32		21.4	16.7	88	0.0															
1998	8	25.2	36		19.4	36.3	80	36.3	6.31	1.44	0.84	0.89	31.1	1.26	0.44	2.08	1.16	0.20					
1998	9	19.5	58		5.8	35.1	62	104.5	6.46	0.57	0.32	1.29	13.6	0.13	0.31	0.62	0.19	0.07					
1998	10	13.6	64	5722	3.0	35.5	44	26.6	6.10	0.47	0.32	1.01	11.1	0.36	0.38	0.44	0.13	0.06					
1998	11	9.3	70		3.5	37.6	30	43.6	6.14	0.40	0.18	0.85	7.5	0.33	0.13	0.44	0.09	0.05					
1998	12	3.2	65		2.9	53.0	20	38.4	6.02	0.71	0.33	1.29	16.7	0.64	0.36	0.72	0.14	0.07					
1999	1	2.4	67		7.0	38.0	27	21,0	6,19	0,62	0,59	1,00	20,4	0,52	0,55	1,04	0,13	0,24					
1999	2	4.1	56		5.0	8.1	38	10,0	6,13	0,87	0,44	1,27	25,0	0,25	0,54	1,93	0,19	0,30					
1999	3	7.1	55		4.0	11.7	62	18,0	6,49	1,16	0,52	1,36	26,7	1,08	0,37	1,96	0,16	0,15					
1999	4	10.1	49		8.0	3.0	74	39,0	5,80	0,60	0,29	1,10	12,9	0,07	0,60	0,74	0,07	0,04					
1999	5	14.6	53		11.0	17.0	65	24,0	6,31	0,54	0,33	1,05	13,3	0,39	0,40	0,65	0,09	0,10					
1999	6	19.6	43		10.0	26.9	80																
1999	7	27.4	35		9.0	31.7	81	11,0	6,45	1,26	0,68	0,98	26,7	0,73	0,36	1,58	0,16	0,28					
1999	8	26.5	38		7.0	26.0	78	1,0	6,88	0,98	0,60	1,61	29,6	0,86									
1999	9	23.5	58		6.0	20.0	57	46,0	6,55	0,51	0,29	1,41	14,4	0,51	0,28	0,87	0,16	0,09					
1999	10	20.6	74	4581	5.0	24.1	39	108,0	6,27	0,51	0,27	1,10	11,4	0,29	0,35	0,53	0,13	0,07					
1999	11	8.8	74		4.0	18.0	25	29,0	6,36	0,60	0,29	1,36	9,4	0,19	0,21	0,77	0,12	0,04					
1999	12	25.5	58		6.2	23.1	57	24,0	6,65	0,47	0,28	0,87	12,5	0,22	0,21	0,62	0,09	0,10					
2000	1	3.9	74		7.0	20.0	20	28,0	6,25	0,95	0,60	0,85	17,9	0,79	0,13	0,75	0,08	0,13					

Year	Mnth	Mandatory											Option										
		Climate			Gases			Precipitation					Precipitation					Gases	Particle	Particles Deposition			
		Temp C	RH %	Sun MJ/m ²	SO ₂ μg/m ³	NO ₂ μg/m ³	O ₃ μg/m ³	mm	pH	SO ₄ -S mg/l	NO ₃ -N mg/l	Cl mg/l	Cond μS/cm	NH ₄ -N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l	HNO ₃ μg/m ³	Conc μg/m ³	Cl mg/m ² d	SO ₄ -S mg/m ² d	NO ₃ -N mg/m ² d
2000	2	10.3	59		3.0	15.0	31	1,0	6,03	2,48	1,20	2,32	49,0	1,71	1,36	2,20	0,26	0,44					
2000	3	11.2	52		2.0	7.7	50	69,0	6,51	0,60	0,33	0,82	14,8	0,68	0,18	0,92	0,07	0,09					
2000	4	9.0	73		2.0	0.5	67	59,0	6,54	0,57	0,30	0,83	13,3	0,47	0,31	0,71	0,08	0,06					
2000	5	15.6	63		1.0	2.0	57	62,0	6,87	0,72	0,41	0,75	23,3	0,61	0,19	2,51	0,16	0,11					
2000	6	22.8	42		3.0	35.3	75	15,0	7,02	1,08	0,64	1,28	31,6	1,24	0,42	2,43	0,23	0,14					
2000	7	23.8	39		3.0	27.0	77	5.0	6,89	2,09	1,30	2,87	64.4	2,00	0,63	6.40	0,47	0,34					
2000	8	24.0	34		13.0	23.0	79	0.0															
2000	9	20.7	45		4.0	15.0	59	15.0	6,84	0,85	0,63	1,88	28.6	0,71	0,40	2.57	0,33	0,12					
2000	10	14.0	59	4524	2.0	11.0	44	27.0	6,72	0,66	0,42	1,23	16.6	0,65	0,18	1.07	0,20	0,08					
2000	11	8.0	80		1.0	4.0	37	75.0	6,64	0,45	0,22	1,00	9.4	0,26	0,29	0,47	0,07	0,07					
2000	12	7.0	87		1.0	2.0	28	138.0	6,16	0,41	0,26	1,00	7.9	0,10	0,37	0,32	0,07	0,06					
2001	1	7.0	86		2.0	9.0	41	71.0	6,04	0,58	0,22	0,93	9.2	0,34	0,21	0,34	0,06	0,05					
2001	2	8.0	69		2.0	13.0	38	27.0	6,52	0,57	0,27	1,19	11.7	0,33	0,47	0,60	0,09	0,06					
2001	3	11.0	80		1.0	5.0	51	58.0	6,71	0,56	0,26	1,29	11.4	0,39	0,53	0,45	0,07	0,08					
2001	4	13.0	53		1.0	10.0	60	22.0	6,34	0,98	0,83	0,95	25.0	0,98	0,28	1.55	0,11	0,12					
2001	5	16.0	62		1.0	12.0	65	37.0	6,57	1,01	0,61	1,13	24.0	0,95	0,49	1.43	0,13	0,12					
2001	6	24.0	33		1.0	27.0	47	5.0	6,76	0,73	0,40	1,91	18.6	0,86	0,27	1.02	0,14	0,30					
2001	7	24.0	35		1.0	17.0	89	5.0	6,68	0,69	0,44	1,88	22.4	0,63	0,23	1.27	0,19	0,16					
2001	8	26.0	37		1.0	10.0	80	12.0	7,17	1,52	1,08	1,55	54.0	1,08	0,51	5.40	0,28	0,24					
2001	9	21.0	45		1.0	13.0	67	26.0	6,69	0,77	0,45	2,58	26.6	0,55	0,22	2.21	0,41	0,10					
2001	10	15.0	79	4605	1.0	10.0	41	84.0	6,36	0,55	0,23	1,27	12.6	0,26	0,32	1.23	0,15	0,09					

Site 33: Toledo, Spain.

Year	Mnth	Mandatory												Option									
		Climate			Gases			Precipitation						Precipitation					Gases	Particle	Particles Deposition		
		Temp C	RH %	Sun MJ/m2	SO ₂ µg/m ³	NO ₂ µg/m ³	O ₃ µg/m ³	mm	pH	SO4-S mg/l	NO3-N mg/l	Cl mg/l	Cond µS/cm	NH4-N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l	HNO3 µg/m ³	Conc µg/m ³	Cl mg/m ² d	SO4-S mg/m ² d	NO3-N mg/m ² d
1997	11	9.2	77	93	0.5	6.2	74	158.6	5.74	0.47	0.17	1.37	8.9	0.04	0.48	0.19	0.07	0.06					
1997	12	6.4		90	0.3	3.0		182.7	6.03	0.55	0.20	1.03		0.23	0.33	0.26	0.07	0.06					
1998	1	5.9	78	218	2.0	10.7	68	53.8	5.64	0.57	0.29	0.89	11.4	0.20	0.37	0.24	0.06	0.02					
1998	2	8.5	72	303	3.2	23.7	78	54.1	5.65	0.36	0.17	0.91	7.6	0.04	0.44	0.21	0.05	0.00					
1998	3	12.3	50	554	1.6	8.1	97	13.3	6.01	0.55	0.31	0.60	10.8	0.24	0.19	0.64	0.10	0.13					
1998	4	9.9	68	584	0.9	8.3	92	93.6	6.25	0.56	0.26	0.94	9.3	0.18	0.45	0.39	0.07	0.07					
1998	5	13.5	65	673	0.5	6.8	99	163.7	5.60	0.60	0.36	0.54	12.4	0.43	0.15	0.24	0.04	0.04					
1998	6	19.3	46	834	0.9	9.0	95	35.0	6.14	0.62	0.37	0.58	9.6	0.28	0.26	0.55	0.08	0.06					
1998	7	24.7	39	878	4.0	13.6	109	0.0															
1998	8	24.6	41	733	2.8	13.8	105	10.0	6.50	3.05	1.45	1.53	57.7	2.18	0.66	3.75	0.31	0.38					
1998	9	19.1	57	515	0.9	14.4	80	69.0	5.83	0.66	0.25	0.81	12.0	0.22	0.23	0.60	0.07	0.10					
1998	10	14.1	51	430	0.6	18.3	79	38.0	5.78	0.28	0.12	0.59	4.2	0.10	0.11	0.28	0.04	0.00					
1998	11	8.9	67	276	0.9	13.5	59	23.9	5.72	0.48	0.20	0.64	8.1	0.14	0.20	0.56	0.07	0.00					
1998	12	6.1	63	240	2.4	17.0	59	34.6	5.75	0.37	0.16	0.54	10.1	0.14	0.30	0.33	0.06	0.09					
1999	1	5.4	65	136	1.0	21.6	57	0															
1999	2	7.4	60	339	8.0	7.8	69	15.4	5.74	0.91	0.17	0.48	11.6	0.22	0.83	0.46	0.06	0.02					
1999	3	9.8	58	526	3.3	15.0	82	20.4	6.24	0.77	0.32	0.88	16.2	0.36	0.41	0.83	0.08	0.12					
1999	4	12.8	51	679	0.5	20.6	90	55.4	5.74	0.63	0.26	0.87	10.4	0.21	0.28	0.41	0.06	0.10					
1999	5	16.9	55	748	0.8	4.1	84	61.2	6.02	0.50	0.27	0.81	10.3	0.20	0.30	0.48	0.06	0.09					
1999	6	21.0	42	835	5.6	11.7	108	12.4	6.34	0.80	0.70	0.83	20.4	0.46	0.30	1.21	0.11	0.12					
1999	7	25.6	33	859	1.8	6.4	109	1.2	5.99	2.06	0.92	1.34	38.6	1.00									
1999	8	24.2	35	801	0.9	4.0	87	3.2	6.40	0.37	0.23	0.61	7.8	0.09	0.14	0.58	0.08	0.16					
1999	9	18.2	55	550	0.8	3.3	75	43.2	6.32	0.28	0.13	0.70	4.8	0.03	0.15	0.23	0.04	0.07					
1999	10	12.3	77	319	1.1	7.3	64	112.4	5.90	0.39	0.16	1.09	8.5	0.03	0.53	0.29	0.06	0.06					
1999	11	6.9	71	308	1.4	3.0	69	13.8	6.27	0.70	0.54	0.81	16.5	0.65	0.32	1.04	0.10	0.18					
1999	12	6.4	77	225	4.6	1.6	66	10.0	6.66	0.44	0.24	0.73	12.1	0.14	0.42	0.42	0.05	0.12					
2000	1	4.5	72	281	3.1	8.1	73	13.8	6.16	0.70	0.39	0.86	15.0	0.56	0.29	0.55	0.09	0.13					

Year	Mnth	Mandatory												Option									
		Climate			Gases			Precipitation						Precipitation					Gases	Particle	Particles Deposition		
		Temp C	RH %	Sun MJ/m ²	SO ₂ μg/m ³	NO ₂ μg/m ³	O ₃ μg/m ³	mm	pH	SO4-S mg/l	NO3-N mg/l	Cl mg/l	Cond μS/cm	NH4-N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l	HNO3 μg/m ³	Conc μg/m ³	Cl mg/m ² d	SO4-S mg/m ² d	NO3-N mg/m ² d
2000	2	10.5	57	413	2.2	17.0	85	9.2	6.14	0.32	0.19	0.51	5.5	0.18	0.10	0.30	0.03	0.05					
2000	3	10.7	51	537	0.7	9.6	101	8.6	6.52	0.84	0.45	0.85	21.7	0.60	0.37	1.11	0.10	0.14					
2000	4	7.8	75	509	1.4	6.8	98	136.0	5.96	0.36	0.16	0.80	7.5	0.05	0.35	0.29	0.06	0.08					
2000	5	15.5	67	666	1.2	5.8	90	38.6	6.56	1.00	0.34	1.08	21.5	0.48	0.44	1.55	0.15	0.17					
2000	6	20.9	41	563	1.3	26.8	106	1.0	6.94	1.41	0.75	2.84	45.2	0.07									
2000	7	24.7	39	863	2.8	7.6	107	4.2															
2000	8	24.6	41	751	2.6	5.8	98	4.7															
2000	9	19.1	57	536	0.9	8.5	89	38.2															
2000	10	12.8	69	367	0.9	8.7	74	8.6	6.84	1.01	0.56	0.94	24.6										
2000	11	5.1	90	213	1.4	7.0	72	58.8	6.73	0.45	0.20	0.87	9.7	0.24	0.39	0.56	0.09	0.11					
2000	12	4.6	89	142	1.0	2.4	76	97.8	6.24	0.70	0.25	2.19	15.1	0.20	1.14	0.59	0.19	0.15					
2001	1	3.6	93	159	0.9	1.0	78	186.2	6.29	0.68	0.28	1.59	13.4	0.27	0.57	0.34	0.12	0.12					
2001	2	5.1	80	319	3.5	1.6	78	112.6	6.49	0.93	0.30	2.58	21.6	0.45	1.49	0.68	0.20	0.19					
2001	3	7.6	88	363	0.7	1.2	83	92.4	6.53	0.59	0.24	1.61	14.7	0.25	1.10	0.68	0.13	0.13					
2001	4	9.1	65	693	1.4	1.9	98	1.6	6.41	0.87	0.59	2.21	28.9	1.25	1.61	0.51	0.12	0.44					
2001	5	12.9	70	651	0.7	7.4	110	75.8	6.55	0.76	0.65	0.91	21.0	0.98	0.41	0.56	0.12	0.14					
2001	6	20.4	40	912	0.8	4.2	115	2.8	6.56	0.49	0.31	0.65	15.6	0.79	0.26	0.48	0.08	0.11					
2001	7	20.4	43	852	1.6	2.7	107	0.0															
2001	8	26.7	47	719	1.6	1.7	99	0.0															
2001	9	17.0	65	543	0.7	5.1	107	22.4	6.89	0.84	0.40	0.78	22.3	0.28	0.38	2.48	0.18	0.14					
2001	10	13.5	81	353	0.5	0.5	77	88.6	6.73	0.58	0.31	1.20	15.9	0.13	0.48	0.92	0.09	0.06					

Site 34: Moscow, Russia.

Year	Mnth	Mandatory											Option										
		Climate			Gases			Precipitation					Precipitation					Gases	Particle	Particles Deposition			
		Temp C	RH %	Sun MJ/m ²	SO ₂ µg/m ³	NO ₂ µg/m ³	O ₃ µg/m ³	mm	pH	SO ₄ -S mg/l	NO ₃ -N mg/l	Cl mg/l	Cond µS/cm	NH ₄ -N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l	HNO ₃ µg/m ³	Conc µg/m ³	Cl mg/m ² d	SO ₄ -S mg/m ² d	NO ₃ -N mg/m ² d
1997	11						50.1																
1997	12	-8.7	75			55.0	21	42.8	6.73	2.10		2.30	61.8	0.78									
1998	1	-5.5	90			37.0	27	40.1	6.65	2.77		1.84	56.0	0.88									
1998	2	-8.3	77			39.0	40	40.8	6.32	1.13		2.26	61.8	1.34									
1998	3	-1.6	68			33.7	41	69.2	6.43	2.21		1.79	40.8	0.74									
1998	4	-4.1	63			28.6	63	60.9	6.65	1.80		1.63	68.7	0.70									
1998	5	13.0	63		40.0	21.1	62	83.0	6.88	2.14		1.57	61.3	0.81									
1998	6	21.3	71		44.7	24.5	64	63.5	6.89				43.1										
1998	7	20.2	80		42.1	19.3	52	114.4	6.56	1.22		1.97	42.4	0.37									
1998	8	16.0	83		16.1	12.6	40	137.0	6.83	0.48		1.16	31.7	0.72									
1998	9	11.6	68		20.2	18.2	30	58.7	6.93	0.82		0.55	43.2	0.86									
1998	10	6.3	75		25.7	19.4	25	77.2	6.83	1.10		1.30	27.4	0.59									
1998	11	-7.4	80		31.2	15.6	25	60.6	6.66	1.79		1.70	46.0	0.66									
1998	12	-4.2	82		30.0	14.0	33	39.0	6.73	1.62		2.80	55.9	0.91									
1999	1	-4.4	83		22.8	22.3		68.4	6.60	1.82		3.40	29.8	0.79									
1999	2	-3.1	79		15.6	17.5		52.9	6.69	1.59		3.27	56.4	0.99									
1999	3	-0.6	61		22.1	16.0		45.8	6.00	1.90		0.83	32.6	0.94									
1999	4	9.3	61		28.5	19.3		34.3	6.50	2.70		0.45		0.94									
1999	5	9.7	59		26.6	18.4		43.6	7.30	1.70		0.29	50.0	0.92									
1999	6	21.4	52		30.0	25.1		42.8	6.35	3.00		0.82		0.54									
1999	7	21.5	63		21.4	29.8		45.5	6.45	1.20		0.43		1.02									
1999	8	16.6	68		20.4	31.0		101.1	6.60	0.80		0.17		0.85									
1999	9	10.4	74		16.6	26.0		41.4	6.60	0.70		0.58	41.8	0.82									
1999	10	6.3	75		18.0	22.1		35.7	6.70	0.60		0.22	42.8	0.81									
1999	11	-4.9	81			23.7		42.9	6.90	0.90		1.00	48.1	0.87									
1999	12	-7.1	81			20.2		55.5															
2000	1	-7.0	70			25.2		38.1	6.76	1.15			56.7	0.79									

Year	Mnth	Mandatory											Option										
		Climate			Gases			Precipitation					Precipitation					Gases	Particle	Particles Deposition			
		Temp C	RH %	Sun MJ/m2	SO ₂ μg/m ³	NO ₂ μg/m ³	O ₃ μg/m ³	mm	pH	SO4-S mg/l	NO3-N mg/l	Cl mg/l	Cond μS/cm	NH4-N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l	HNO ₃ μg/m ³	Conc μg/m ³	Cl mg/m ² d	SO4-S mg/m ² d	NO3-N mg/m ² d
2000	2	-3.8	74		23.4		52.3	6.31	0.73			40.5	0.84										
2000	3	-1.1	65		25.4		47.5	6.41	0.47			75.5	1.47										
2000	4	5.8	57		16.9		23.5	6.51	1.40				1.68										
2000	5	10.4	47		10.8		16.4	6.52	2.92			107.7	1.08										
2000	6	16.1	64		22.8		121.8	6.76	1.84			89.8	0.96										
2000	7	19.0	77		29.8		118.9	6.78	1.39			61.1	0.92										
2000	8	15.7	74		21.7		69.1	6.80	0.81			80.2	1.26										
2000	9	9.1	72		21.4		42.5	6.77	1.06			42.0	1.08										
2000	10	6.6	76		16.2		28.5	6.76	2.89			94.1	1.22										
2000	11	0.4	81		17.0		46.8	6.60	1.19			38.1	1.34										
2000	12	-7.1	81		17.8		99.0																
2001	1	-3.5	85				34.9																
2001	2	-5.0	71				99.2																
2001	3	-2.1	61				47.5																
2001	4	12.1	50				26.6																
2001	5	11.8	59				136.6																
2001	6	16.6	62				81.6																
2001	7	24.2	60				78.0																
2001	8	16.1	69				52.5																
2001	9	13.0	64				46.3																
2001	10	5.3	80				62.6																

Site 35, Lahemaa, Estonia.

Year	Mnth	Mandatory												Option									
		Climate			Gases			Precipitation						Precipitation					Gases	Particle	Particles Deposition		
		Temp C	RH %	Sun MJ/m2	SO ₂ µg/m ³	NO ₂ µg/m ³	O ₃ µg/m ³	mm	pH	SO4-S mg/l	NO3-N mg/l	Cl mg/l	Cond µS/cm	NH4-N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l	HNO3 µg/m ³	Conc µg/m ³	Cl mg/m ² d	SO4-S mg/m ² d	NO3-N mg/m ² d
1997	11	0.9	88	40		0.9	43																
1997	12	-4.1	88	24		1.1	44																
1998	1	-0.6	90	28	0.4	1.0	52	39.9	5.36	2.67	0.36	1.40	33.8	0.16	0.93	2.95	0.36	0.20					
1998	2	-3.8	84	85	0.8	0.9	60	41.8	5.34	1.83	0.43	1.48	25.3	0.11	0.65	0.45	0.11	0.15					
1998	3	-4.0	81	281	0.6	0.8	70	23.0	4.92	5.60	0.65	1.82	30.0	0.43	0.64	2.40	0.18	0.98					
1998	4	3.5	72	380	0.5	0.5	72	31.2	5.50	5.20	0.45	0.53	34.7	0.36	0.37	1.73	0.12	0.21					
1998	5	9.1	74	541		0.5	68	85.4	5.44	1.54	0.22	0.57	18.8	0.22	0.25	3.48	0.10	0.30					
1998	6	14.5	78	524		0.5	60	151.0	5.30	1.71	0.25	0.59	25.6	0.34	0.27	3.43	0.24	0.20					
1998	7	15.9	81	527		0.4	54	103.0	5.29	1.44	0.14	0.55	12.4	0.22	0.19	0.63	0.13	0.15					
1998	8	13.9	85	370		0.4	44	181.0	4.96	0.65	0.09	0.54	12.8	0.16	0.08	1.24	0.14	0.02					
1998	9	11.9	79	281	0.3	0.5	44	20.4	6.18	1.36	0.20	0.80	13.8	0.16	0.30	0.91	0.19	0.04					
1998	10	6.3	80	157	0.3	0.5	48	75.4	4.91	0.96	0.39	1.36	14.6	0.33	0.58	0.75	0.37	0.24					
1998	11	-4.2	84	59	0.5	0.8	44	31.3	4.38	1.44	0.56	0.45	27.0	0.21	0.10	0.81	0.09	0.04					
1998	12	-2.3	86	21	0.5	0.6	50	53.7	4.58	1.99	0.44	0.90	32.6	0.35	0.12	0.15	0.09	0.01					
1999	1	-4.0	88	34	4.2	2.4	47	70.0	4.50		0.53	0.55	20.2	0.15	0.24	0.17	0.05	0.19					
1999	2	-6.3	85	102	4.1	2.4	66	50.4	4.58		0.37	0.58	15.4	0.11	0.22	0.18	0.04	0.05					
1999	3	-0.3	79	254	4.5	2.0	88	13.4	4.40		1.02	0.83	36.5	0.58	0.65	1.29	0.13	0.22					
1999	4	6.4	74	350	2.2	2.0	79	43.5	5.47		0.67	0.61	20.6	0.68	0.35	1.24	0.12	0.28					
1999	5	7.3	66	588	0.7	1.5	80	4.9	5.60		0.69	0.73	21.1	0.43	0.30	1.85	0.16	0.34					
1999	6	17.2	76	671	1.3	1.7	79	81.7	5.58		0.34	0.38	13.3	0.30	0.37	0.91	0.11	0.46					
1999	7	18.6	71	683	0.5	1.5	67	29.4	5.77		0.12	0.73	10.9	0.26	0.69	0.80	0.09	0.44					
1999	8	15.1	78	494	0.5	1.5	56	72.4	5.19		0.18	0.18	11.2	0.17	0.22	0.28	0.05	0.26					
1999	9	13.1	78	313	0.7	1.6	52	48.2	4.97		0.30	0.35	11.3	0.05	0.20	0.58	0.08	0.14					
1999	10	7.5	81	106	0.6	2.0	50	118.8	4.89		0.24	0.52	14.2	0.20	0.35	0.52	0.06	0.23					
1999	11	2.2	83	45	1.2	3.1	50	45.6	4.72		0.40	1.28	22.7	0.25	0.64	0.22	0.09	0.12					
1999	12	-0.8	85	24	3.0	6.6	50	90.1	4.63		0.31	0.73	17.5	0.13	0.29	0.23	0.05	0.10					
2000	1	-1.9	87	37	1.1	4.5	59	45.7	4.90	0.33	0.37	1.05	12.0	0.17	0.63	5.05	0.14	0.10					

Year	Mnth	Mandatory												Option									
		Climate			Gases			Precipitation						Precipitation					Gases	Particle	Particles Deposition		
		Temp C	RH %	Sun MJ/m ²	SO ₂ μg/m ³	NO ₂ μg/m ³	O ₃ μg/m ³	mm	pH	SO ₄ -S mg/l	NO ₃ -N mg/l	Cl mg/l	Cond μS/cm	NH ₄ -N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l	HNO ₃ μg/m ³	Conc μg/m ³	Cl mg/m ² d	SO ₄ -S mg/m ² d	NO ₃ -N mg/m ² d
2000	2	-1.1	84	86	1.1	3.5	66	20.6	4.20	0.39	0.52	1.13	28.0	0.29	0.71	0.26	0.11	0.10					
2000	3	-0.2	78	259	2.3	1.3	80	48.1	4.60	0.33	0.33	0.56	14.4	0.14	0.33	0.20	0.06	0.10					
2000	4	6.6	77	394	3.4	1.3	79	16.5	4.60	1.11	0.60	0.40	22.4	0.51	0.15	0.96	0.08	0.20					
2000	5	10.0	65	590	0.9	1.1	81	36.1	5.70	0.57	0.33	0.38	12.8	0.40	0.32	0.20	0.04	0.42					
2000	6	13.6	72	601	0.9	1.4	74	58.4	5.00	0.40	0.25	0.30	10.3	0.14	0.09	0.23	0.03	0.11					
2000	7	15.8	84	449	1.1	1.1	58	106.3	4.90	0.34	0.12	0.12	8.8	0.09	0.07	0.18	0.02	0.05					
2000	8	15.2	83	425	0.5	1.2	50	87.2	5.50	0.23	0.05	0.14	4.5	0.01	0.07	0.22	0.02	0.15					
2000	9	10.3	77	341	0.5	1.0	40	13.7	5.10	0.37	0.06	0.35	7.1	0.01	0.10	0.43	0.05	0.06					
2000	10	8.7	83	146	1.2	1.0	46	79.5	4.50	0.53	0.14	0.35	13.1	0.18	0.11	0.24	0.05	0.06					
2000	11	3.8	88	29	1.8	1.0	33	38.4	4.30	0.48	0.32	0.25	18.2	0.18	0.14	0.18	0.02	0.06					
2000	12	1.1	88	17	1.1	0.9	43	47.0	4.40	0.36	0.22	0.65	9.0	0.22	0.39	0.12	0.01	0.05					
2001	1	-1.3	90	34	0.8	3.2	53	42.8	4.50	0.31	0.12	0.44	10.9	0.10	0.17	0.16	0.02	0.07					
2001	2	-5.2	85	96	2.2	4.1	64	57.7	4.50	0.41	0.32	0.80	11.3	0.10	0.35	0.14	0.04	0.06					
2001	3	-3.2	80	270	2.3	3.7	79	34.7	4.40	0.38	0.32	0.34	19.1	0.20	0.24	0.18	0.04	0.09					
2001	4	5.7	81	326	2.0	2.6	84	77.0	4.60	0.77	0.47	0.52	19.2	0.50	0.22	0.44	0.04	0.08					
2001	5	9.4	68	593	1.3	2.2	80	3.4	5.20	0.33	0.16	0.50	25.0	0.20	0.25	0.12	0.03	0.16					
2001	6	12.8	81	544	1.2	2.2	62	181.8	4.90	0.28	0.07	0.23	11.9	0.20	0.11	0.11	0.02	0.10					
2001	7	19.9	76	677	1.2	1.8	69	41.4	5.30	0.47	0.05	0.37	10.8	0.10	0.10	0.41	0.08	0.16					
2001	8	15.9	79	484	0.6	1.4	52	53.9	5.40	0.35	0.06	0.34	6.4	0.00	0.05	0.15	0.02	0.05					
2001	9	12.4	79	267	0.6	1.7	51	29.9	5.90	0.21	0.06	0.24	5.4	0.00	0.13	0.15	0.03	0.07					
2001	10	8.6	82	109	0.4	1.7	47	59.5	5.00	0.33	0.12	0.57	7.4	0.00	0.08	0.16	0.03	0.06					

Site 36: Lisbon-Jeronimo Monastery, Portugal.

Year	Mnth	Mandatory												Option									
		Climate			Gases			Precipitation						Precipitation					Gases	Particle	Particles Deposition		
		Temp C	RH %	Sun MJ/m2	SO ₂ µg/m ³	NO ₂ µg/m ³	O ₃ µg/m ³	mm	pH	SO4-S mg/l	NO3-N mg/l	Cl mg/l	Cond µS/cm	NH4-N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l	HNO3 µg/m ³	Conc µg/m ³	Cl mg/m ² d	SO4-S mg/m ² d	NO3-N mg/m ² d
1997	11	16.1	62		11.9	45.2	14	35.4	6.37	4.64	2.79	9.90	46.8	0.83	9.95	3.37	0.71	0.31			162.1	21.2	4.7
1997	12	14.5	62	50	11.6	41.5	8	20.3	6.05	8.48	4.20	10.19	49.8	0.34	5.52	5.46	0.77	0.38			82.2	12.5	2.2
1998	1	13.6	63	61	13.5	41.9	5	13.5	6.18	11.15	2.65	23.46	100.4	0.73	12.50	7.32	1.77	0.71			125.5	25.1	4.0
1998	2	14.5	58	100	12.5	49.0	5	32.4	5.20	6.79	1.59	9.80	47.9	1.34	5.43	2.92	0.64	0.17			15.2	11.1	3.2
1998	3	16.7	46	155	21.8	61.5	5	16.7	6.80	23.49	5.16	6.69	103.2	1.37	3.62	19.55	0.71	0.56			64.9	20.5	6.4
1998	4	16.9	52	137	11.1	35.7	8	16.2	6.78	14.53	3.56	17.15	9.8	1.10	7.11	8.64	1.19	0.56			59.8	11.8	3.0
1998	5	17.9	71		22.1	44.4	10	18.7	6.85	11.69	3.82	25.26	98.0		11.44	8.30	0.91	0.66			103.0	23.2	12.9
1998	6	20.7	63		21.4	30.4	9	43.2	6.90	8.58	4.85	5.49	6.1	0.64	3.28	6.13	0.48	0.31			8.4	5.1	1.5
1998	7	22.0	63		19.8	13.3	11	0.0													10.8	3.2	5.5
1998	8	22.2	69		24.9	50.9	16	0.0													46.5	4.1	7.2
1998	9	21.1	73		18.6	45.0	37	41.3	6.90	30.54	12.34	18.17	178.3	3.71		21.70	1.53	1.04			17.1	2.9	0.7
1998	10	18.1	69		23.2	45.5	19	13.8	7.45	11.54	4.13	22.06	146.9	0.43		17.03	1.83	0.49			9.3	6.0	2.2
1998	11	15.7	70		20.3	32.6	11	7.4	6.80	41.23	8.33	16.77	174.8		6.75	25.35	1.35	4.45			16.4	7.0	2.0
1998	12	11.3	71		28.1	55.8	8	5.2	6.85	75.94	11.10	14.59	241.8		9.79	37.01	1.88	2.43			66.6	27.2	5.0
1999	1	11.3	75		14.0	47.2	10	24.2	7.05	6.98	1.44	7.00	209.1	1.78	4.29	3.59	0.59	0.35			33.4	15.4	1.9
1999	2	11.9	64		10.5	45.8	19	6.9	6.33	16.11	15.01	12.87	248.3		6.20	24.90	1.40	0.76			22.5	8.8	1.5
1999	3	14.8	67		16.2	53.0	14	16.4	6.64	35.29	11.05	34.27	142.3	1.46	17.49	13.38	1.81	1.97			146.9	22.7	4.6
1999	4	16.5	65		15.5	35.3	16	6.9	5.95	22.65	7.99	31.12	30.9	0.05	18.99	25.80	2.28	2.45			84.9	15.5	5.7
1999	5	18.1	70		10.2	28.2	10	25.1	6.64	11.44	4.44	16.52	99.9	1.57	3.63	4.27	0.56	0.23			19.6	5.1	2.2
1999	6	21.1	59		13.8	29.1	10	0.0													12.7	3.5	3.6
1999	7	22.8	64		13.7	12.2	9	0.0													36.2	11.0	8.2
1999	8	22.6	67		11.0	2.1	8	15.7	6.15	40.15	15.46	11.47	176.5	0.73	4.00	38.23	1.85	1.55			16.1	6.5	2.8
1999	9	20.9	72		14.6	23.1	8	31.3	7.00	5.59	2.41	7.55	158.5	0.53	4.76	9.30	0.79	0.38			49.1	9.6	2.5
1999	10	18.4	72		14.4	9.6	7	49.2	6.59	3.37	1.40	12.62	67.6	0.28	6.74	5.48	0.92	0.55			103.6	4.6	2.7
1999	11	13.9	67		15.5	3.9	4	14.2	6.30	19.12	10.92	10.82	85.4	0.52	6.20	13.61	1.14	1.15					
1999	12	12.7	78		15.3	71.4	3	19.5	6.21	11.41	4.26	8.64	44.9	0.92	4.63	4.68	0.59	0.40			11.4	8.2	1.1
2000	1	10.0	71		21.6	66.9	3	7.9	6.25	14.02	4.35	10.04	62.8	0.58	6.05	5.75	0.83	0.55			11.0	4.3	1.0

Year	Mnth	Mandatory											Option										
		Climate			Gases			Precipitation					Precipitation					Gases	Particle	Particles Deposition			
		Temp C	RH %	Sun MJ/m ²	SO ₂ μg/m ³	NO ₂ μg/m ³	O ₃ μg/m ³	mm	pH	SO ₄ -S mg/l	NO ₃ -N mg/l	Cl mg/l	Cond μS/cm	NH ₄ -N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l	HNO ₃ μg/m ³	Conc μg/m ³	Cl mg/m ² d	SO ₄ -S mg/m ² d	NO ₃ -N mg/m ² d
2000	2	14.1	73		17.7	32.9	22	20.6	6.70	6.84	3.97	8.69	41.0	0.19	4.35	5.53	0.63	0.35			10.9	5.2	1.0
2000	3	15.8	61		28.7	34.7	19	0.0	6.45	22.88	12.08	9.83	94.9	0.93	6.60	16.45	1.00	0.88			43.6	7.8	2.0
2000	4	14.0	73		29.4		30	20.6	5.51	6.97	3.53	11.02	62.4	1.00	6.50	5.43	0.80	0.39			116.4	17.3	2.9
2000	5	17.9	71		37.8		22	27.7	5.90	16.12	8.39	11.65	116.9	0.79	3.65	6.01	0.65	0.13					
2000	6	22.0	58		52.0		25	0.0															
2000	7	22.3	67				24	0.0															
2000	8	23.4	56				25	0.0															
2000	9	21.5	64			15.4	21	10.6	6.65	16.87	5.89	11.66	275.9	1.07	16.25	42.58	3.45	2.33					
2000	10	18.2	68			2.2	21	8.4	6.71	16.05	6.79	24.69	117.5	0.43	9.38	18.70	1.26	0.35					
2000	11	14.6	77			19.0	16	24.8	5.52				55.6	0.39	6.46	5.33	0.92	1.30					
2000	12	14.2	81			8.7	14	50.1	6.19				54.6	0.22	53.42	3.51	1.08	0.37					
2001	1	13.0	80			36.4	21	22.1	5.53				42.7	0.36	5.67	2.03	0.69	0.23					
2001	2	13.3	73			2.0	29	56.0	6.00				61.3										
2001	3																						
2001	4																						
2001	5																						
2001	6																						
2001	7																						
2001	8																						
2001	9																						
2001	10																						

Site 37: Dorset, Canada.

Year	Mnth	Mandatory												Option										
		Climate			Gases			Precipitation						Precipitation					Gases	Particle	Particles Deposition			
		Temp C	RH %	Sun MJ/m2	SO ₂ µg/m ³	NO ₂ µg/m ³	O ₃ µg/m ³	mm	pH	SO4-S mg/l	NO3-N mg/l	Cl mg/l	Cond µS/cm	NH4-N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l	HNO3 µg/m ³	Conc µg/m ³	Cl mg/m ² d	SO4-S mg/m ² d	NO3-N mg/m ² d	
1997	11	-0.5	82	131	2.1	9.0	48	92.0	4.54	0.40	0.34	0.06	17.0	0.19	0.03	0.08	0.01	0.01	8.4		0.21	0.3	0.16	
1997	12	-5.7	80	122	3.6	14.4	52	61.0	4.21	0.60	0.73	0.13	26.0	0.48	0.06	0.19	0.02	0.02	20.0		0.18	0.3	0.14	
1998	1	-6.4	82	106	5.3	11.9	56	95.0	4.37	0.42	0.37	0.08	17.0	0.15	0.04	0.06	0.01	0.01	20.0		0.33	0.7	0.19	
1998	2	-3.6	72	224	2.8	8.4	70	121.0	4.33	0.38	0.46	0.06	21.0	0.12	0.04	0.05	0.01	0.01	13.6		0.25	0.5	0.17	
1998	3	-2.1	77	294	2.3	5.0	76	87.0	4.45	0.70	0.53	0.20	21.0	0.34	0.16	0.37	0.06	0.03	17.0					
1998	4	5.7	59	544	1.7		80	28.0	4.27	0.77	0.53	0.11	25.0	0.28	0.04	0.23	0.03	0.05	8.4		0.23	0.7	0.15	
1998	5	14.9	69	633	2.2		80	37.0	4.18	1.93	0.94	0.24	46.0	1.22	0.06	0.63	0.10	0.19	11.2		0.35	0.8	0.15	
1998	6	16.6	76	556	1.3		62	66.0	4.36	0.77	0.49	0.11	23.0	0.35	0.03	0.27	0.04	0.03	4.2		0.31	0.7	0.07	
1998	7	17.7	75	657	1.9		58	48.0	4.45	0.78	0.41	0.06	23.0	0.33	0.02	0.21	0.05	0.02	10.6		0.28	0.7	0.05	
1998	8	18.6	77	532	2.1		64	52.0	4.26	0.90	0.45	0.12	17.0	0.40	0.05	0.30	0.06	0.03	13.0		0.51	1.1	0.10	
1998	9	13.2	78	375	1.9		54	43.0	3.97	2.35	0.96	0.18	59.0	0.69	0.03	0.36	0.05	0.05	7.4		0.32	0.6	0.11	
1998	10	7.2	75	261	2.0		46	58.0	4.24	0.90	0.55	0.13	26.0	0.42	0.04	0.17	0.03	0.03	7.6		0.34	0.5	0.10	
1998	11	1.5	79	78	1.8		44	60.0	4.19	0.95	0.69	0.15	35.0	0.47	0.06	0.12	0.02	0.04	8.6		0.27	0.3	0.16	
1998	12	-3.8	82	81	2.0		48	73.0	4.31	0.70	0.68	0.11	48.0	0.42	0.05	0.11	0.02	0.03	14.0		0.34	0.5	0.34	
1999	1	-10.6	77	108			60	173.3	4.56	0.38	0.34	0.10		0.17	0.03	0.18	0.01	0.02						
1999	2	-2.0	71	203			64	50.0	4.17	0.72	0.63	0.09		0.33	0.06	0.11	0.02	0.02						
1999	3	1.1	63	420			84	18.0	4.11	0.62	1.51	0.19		0.39	0.06	0.45	0.06	0.02						
1999	4	5.2	57	522			80	21.0	4.37	0.60	0.58	0.08		0.35	0.03	0.26	0.03	0.03						
1999	5	13.7	63	643			80	89.2																
1999	6	17.0	75	562		4.2	74	76.2																
1999	7	19.6	74	602		3.6	66	121.7																
1999	8	16.0	77	500		3.1	50	72.0	4.52	0.72	0.38	0.16		0.20		0.50	0.10	0.09						
1999	9	14.2	82	338		4.0	50	169.6	4.52	0.58	0.30	0.06		0.24	0.12	0.16	0.03	0.02						
1999	10	6.2	77	227		6.3	50	125.8																
1999	11	2.4	78	111		9.6	52	115.6																
1999	12	-5.9	83	91		16.4	58	80.9	4.26	0.55	0.58	0.16		0.27	0.07	0.09	0.02	0.02						
2000	1	-7.1	76	124		8.0	58	51.0	4.70												3.9			

Site 40: Paris, France.

Year	Mnth	Mandatory												Option									
		Climate			Gases			Precipitation						Precipitation					Gases	Particle	Particles Deposition		
		Temp C	RH %	Sun MJ/m ²	SO ₂ μg/m ³	NO ₂ μg/m ³	O ₃ μg/m ³	mm	pH	SO4-S mg/l	NO3-N mg/l	Cl mg/l	Cond μS/cm	NH4-N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l	HNO3 μg/m ³	Conc μg/m ³	Cl mg/m ² d	SO4-S mg/m ² d	NO3-N mg/m ² d
1997	11	10.1	80	109	21.4	70.5	10	95.5	6.30	2.04	0.73	1.82	49.1	0.76	0.94	4.00	0.12	0.20					
1997	12	7.5	78	75	21.7	64.2	11	57.1	5.80	1.43	0.32	2.18	30.5	0.55	1.09	1.85	0.10	0.00					
1998	1	6.4	73	120	20.9	60.4	15	63.1	4.88	1.92	0.47	2.28	32.2	0.25	0.91	2.62	0.11	0.74					
1998	2	7.9	70	199	32.9	98.8	8	46.1	6.70	3.28	0.49	7.39	87.7	0.28	3.13	7.00	0.49	0.21					
1998	3	10.3	62	300	19.9	72.0	23	3.8	5.70	18.42	3.59	18.35	186.7										
1998	4	11.1	69	368	10.2	74.7	39	49.0	7.27	1.45	0.61	1.97	49.0	2.38	1.40	3.21	0.10	1.18					
1998	5	18.0	56	669	9.4	73.8	59	30.4	5.51	1.80	3.43	2.99	60.6	1.69	2.24	7.03	0.22	1.43					
1998	6	19.2	59	672	5.1	63.8	50	16.8	7.06	1.10	0.47	1.56	37.9	1.20	1.07	4.06	0.11	0.85					
1998	7	19.3	61	553	5.2	59.1	42	59.2	6.95	1.05	0.59	1.05	29.1	1.23	0.72	3.36	0.14	0.54					
1998	8	21.2	56	632	8.0	67.4	58	13.0	7.00	1.37	0.59	1.52	39.0	1.25	0.94	4.63	0.15	0.37					
1998	9	17.5	69	374	8.4	71.4	34	59.4	6.81	0.98	0.46	1.69	29.4	0.83	1.04	3.21	0.12	0.37					
1998	10	12.9	74	179	7.9	63.7	22	78.2	6.83	1.72	0.55	2.06	36.9	0.68	1.36	4.51	0.18	0.45					
1998	11	6.7	73	124	20.3	67.9	11	37.4	6.92	3.07	0.41	4.60	55.8	0.71	2.91	7.22	0.31	0.72					
1998	12	6.9	79	71	21.3	56.7	13	35.2	6.05	1.54	0.41	2.60	31.2	0.83	1.77	1.77	0.15	0.36					
1999	1	7.7	75	119	14.6	57.4	19	37.4	7.36	4.12	0.63	5.76	101.9	1.22	3.62	14.60	0.45	0.73					
1999	2	6.3	71	164	17.7	61.1	23	47.8	7.50	2.26	0.50	3.56	71.3	0.78	2.23	11.15	0.24	0.50					
1999	3	10.3	68	310	12.0	67.0	30	41.0	5.78	2.12	1.71	5.72	55.7	1.30	3.39	3.31	0.37	0.66					
1999	4	12.6	66	436	8.0	53.1	44	57.4	6.98	2.33	2.94	3.02	57.5	1.67	1.99	6.36	0.24	0.69					
1999	5	17.9	60	639	5.0	42.0	55	77.6	7.28	1.68	1.21	1.51	46.8	0.03	0.87	8.16	0.16	0.24					
1999	6	18.4	59	629	5.0	41.1	55	50.0	4.92	1.22	1.38	0.86	29.0	0.41	0.57	2.54	0.06	0.35					
1999	7	22.6	56	727	4.9	37.9	63	25.0	6.80	0.98	0.74	0.42	26.4	0.52	0.29	3.42	0.05	0.23					
1999	8	21.4	58	615	4.2	37.5	53	36.8	6.72	0.80	0.46	0.99	27.6	0.38	0.64	4.71	0.10	0.27					
1999	9	19.8	66	411	6.2	50.8	37	83.6	6.76	0.70	0.40	0.65	19.0	0.44	0.32	2.28	0.06	0.15					
1999	10	13.3	72	269	13.5	54.5	17	28.2	6.87	1.87	0.68	3.05	44.6	0.99	1.98	3.90	0.21	0.55					
1999	11	7.9	76	136	17.7	59.9	12	38.0	6.72	1.42	0.42	2.45	37.5	1.68	1.33	2.42	0.20	0.85					
1999	12	6.9	78	76	15.5	51.0	20	74.6	6.68	1.22	0.18	1.65	26.0	0.60	0.93	2.75	0.14	0.23					

Year	Mnth	Mandatory												Option									
		Climate			Gases			Precipitation						Precipitation					Gases	Particle	Particles Deposition		
		Temp C	RH %	Sun MJ/m ²	SO ₂ μg/m ³	NO ₂ μg/m ³	O ₃ μg/m ³	mm	pH	SO4-S mg/l	NO3-N mg/l	Cl mg/l	Cond μS/cm	NH4-N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l	HNO ₃ μg/m ³	Conc μg/m ³	Cl mg/m ² d	SO4-S mg/m ² d	NO3-N mg/m ² d
2000	1	5.8	76	101	19.2	63.7	13	41.4	6.77	2.49	0.47	4.95	55.4	1.63	2.81	4.25	0.32	0.80					
2000	2	8.5	72	154	11.4	56.1	21	38.8	6.85	1.88	0.44	2.84	42.5	1.46	1.68	3.41	0.19	0.31					
2000	3	9.8	64	305	11.1	60.3	29	35.4	6.96	2.39	1.07	1.70	57.1	3.41	1.23	5.32	0.15	0.81					
2000	4	10.9	70	397	12.7	50.4	38	91.0	6.72	0.72	0.35	0.50	18.1	0.57	0.35	2.73	0.05	0.20					
2000	5	16.3	70	581	8.4	44.8	46	44.6	6.62	1.15	1.67	1.96	40.9	0.00	1.38	6.68	0.17	0.36					
2000	6	18.8	63	683	8.0	43.9	48	89.6	6.08	0.95	0.52	0.32	20.9	1.10	0.23	1.99	0.02	0.20					
2000	7	17.8	71	546	6.9	43.4	39	63.2	6.64	0.88	0.82	0.71	23.5	1.09	0.49	2.12	0.08	0.27					
2000	8	20.6	65	627	9.7	43.7	48	58.0	4.95	0.74	0.84	0.56	18.6	0.48	0.37	1.40	0.05	0.36					
2000	9	17.1	74	388	5.7	45.5	29	48.4	4.84	1.03	2.52	1.49	40.1	1.22	0.93	2.66	0.20	0.79					
2000	10	12.3	81	209	7.3	48.8	19	119.2	4.54	1.37	1.93	1.45	33.6	0.93	0.79	1.94	0.14	0.74					
2000	11	8.5	85	113	6.8	44.0	22	50.4	6.59	1.73	0.56	4.10	42.2	0.69	2.39	4.70	0.31	0.72					
2000	12	7.6	83	79	14.5	45.5	16	73.0	6.42	1.26	0.30	2.15	29.8	1.00	1.26	2.39	0.19	0.50					
2001	1	5.6	81	93	22.9	49.1	18	63.6	6.44	1.29	0.41	1.70	26.9	0.40	1.13	2.41	0.12	0.34					
2001	2	6.3	78	144	17.8	54.0	23	45.0	4.49	1.44	1.41	2.53	42.2	0.39	1.47	2.37	0.16	0.25					
2001	3	9.2	79	216	8.8	46.9	32	95.4	4.59	1.01	0.97	1.61	34.1	0.51	0.98	2.69	0.14	0.53					
2001	4	9.8	70	343	9.0	39.6	49	56.0	5.53	1.56	2.78	1.86	47.2	1.17	1.26	3.33	0.17	0.90					
2001	5	16.6	62	577	11.7	49.0	52	10.6	5.12	2.01	4.90	2.17	78.0	0.00	1.58	8.95	0.24	1.64					
2001	6	18.1	57	641	5.3	43.1	59	40.4	6.91	1.47	1.49	1.95	52.4	0.94	1.47	6.17	0.18	0.93					
2001	7	20.2	67	581	5.3	41.2	46	116.8	6.52	0.54	0.48	0.86	18.4	0.52	0.64	1.46	0.04	0.34					
2001	8	20.8	64	544	5.9	45.2	53	49.6	7.15	1.74	1.85	1.62	56.1	0.00	1.09	9.27	0.20	0.57					
2001	9	14.4	77	289	6.7	44.1	25	62.8	6.58	0.96	0.64	1.57	27.5	0.68	1.01	2.38	0.11	0.55					
2001	10	15.1	85	237	6.3	45.4	23	67.2	4.99	1.02	2.11	1.57	40.0	1.26	1.01	1.86	0.14	0.94					

Site 41: Berlin, Germany

Year	Mnth	Mandatory											Option											
		Climate			Gases			Precipitation					Precipitation					Gases	Particle	Particles Deposition				
		Temp C	RH %	Sun MJ/m2	SO ₂ µg/m ³	NO ₂ µg/m ³	O ₃ µg/m ³	mm	pH	SO4-S mg/l	NO3-N mg/l	Cl mg/l	Cond µS/cm	NH4-N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l	HNO3 µg/m ³	Conc µg/m ³	Cl mg/m ² d	SO4-S mg/m ² d	NO3-N mg/m ² d	
1997	11	3.5	84	78	19.0	34.0	6	15.6		4.54	1.99	3.26		3.26	0.48	3.74	0.04	1.73		52.0				
1997	12	1.7	87	43	13.0	32.0	10	41.8		3.17	2.35	0.75		2.69	0.89	3.43	0.15	0.22		48.0				
1998	1	-1.8	84	70	10.0	31.0	15	48.2		6.88	2.64	2.07		6.22	1.49	2.82	0.28	0.87		14.0	1.54	7.60	2.58	
1998	2	6.3	76	109	10.0	28.0	23	24.7		18.96	7.07	8.30		5.19	5.82	9.90	0.73	1.13		28.0	3.07	15.20	5.15	
1998	3	5.5	73	244	11.0	47.0	24	39.3		6.56	4.06	2.68		3.41	2.30	2.06	0.20	0.63		21.0	0.64	10.56	4.81	
1998	4	11.1	75	306	12.0	40.0	24	34.0		6.97	6.22	0.90		3.54	0.77	2.33	0.20	0.87		22.0	0.40	8.80	4.40	
1998	5	16.2	68	517	12.0	55.0	27	23.3		8.36	6.48	1.84		4.36	1.22	3.51	0.20	0.62		31.0	1.24	8.58	5.22	
1998	6	18.4	71	482	8.0	40.0	31	57.8		5.20	4.48	0.69		3.00	0.89	2.35	0.20	0.54		48.0	1.18	10.89	0.06	
1998	7	18.0	71	474	6.0	37.0	31	38.7		4.56	5.64	0.77		6.92	0.81	2.59	0.20	0.88		69.0	1.82	16.51	0.16	
1998	8	17.9	71	420	8.0	39.0	31	51.8		13.32	6.14	2.59		4.33	1.40	12.68	0.32	14.16		44.0	2.99	12.16	0.05	
1998	9	15.0	80	239	14.0	44.0	16	26.9		7.95	5.92	1.78		3.50	0.83	2.42	0.18	0.82		14.0	0.59	9.78	0.37	
1998	10	9.3	81	131	8.0	25.0	27	84.1		3.78	2.41	2.37		2.43	1.80	1.29	0.20	1.00						
1998	11	1.9	88	67	17.0	34.0	11	36.7		5.50	3.81	2.75		4.31	1.83	2.92	0.38	0.38		12.0	1.84	11.79	3.99	
1998	12	1.2	86	56	12.0	32.0	16	36.5		6.66	5.06	1.56		2.87	0.85	0.40	0.20	0.32		14.0	1.68	12.18	3.85	
1999	1	3.5	84	72	9.0	29.0	15	32.7		4.62	4.35	1.57		3.24	1.33	1.55	0.20	0.23		52.0				
1999	2	1.8	83	109	7.0	29.0	24	58.3		4.23	2.35	2.57		1.93	1.39	0.66	0.20	0.20		128.0				
1999	3	6.2	77	220	13.0	42.0	20	33.3		3.68	3.42	0.81		4.23	0.69	0.91	0.20	0.25		95.0				
1999	4	11.0	70	376	12.0	51.0	30	34.2		3.65	3.23	0.57		1.78	0.55	0.83	0.20	0.35		167.0				
1999	5	15.3	62	562	12.0	58.0	37	26.8		5.45	3.94	0.72		3.39	0.94	0.56	0.20	0.59		195.0				
1999	6	17.5	65	495	9.0	54.0	32	38.1		3.75	2.65	0.28		1.88	0.52	0.70	0.20	0.30		183.0				
1999	7	21.5	61	578	10.0	50.0	37	28.9		4.07	3.32	0.83		1.81	1.78	2.17	0.31	0.57		232.0				
1999	8	19.3	63	445	9.0	51.0	32	55.5		2.19	2.02	0.67		1.25	0.46	1.37	0.20	0.37		263.0				
1999	9	18.9	69	360	12.0	60.0	26	16.9		2.66	2.63	0.36		4.89	0.55	2.50	0.20	0.33		89.0				
1999	10	10.7	79	179	9.0	37.0	17	16.7		6.27	3.95	3.61		1.91	1.45	4.70	0.29	1.01		68.0				
1999	11	4.7	87	88	9.0	40.0	9	29.7		5.12	2.84	2.06		1.83	1.63	1.57	0.20	0.45		83.0				
1999	12	3.2	86	48	5.0	28.0	24	75.9		3.02	1.82	1.65		2.03	1.25	1.22	0.20	0.40		140.0				
2000	1	2.0	86	70	7.0	36.0	17	42.3													132.0			
2000	2	4.8	84	115	5.0	32.0	26	42.8						3.10	1.59			0.15		48.2	2.74	4.20	9.10	
2000	3	6.0	80	179	6.0	43.0	28	74.8						2.90	0.70			0.19		37.4	1.39	5.40	5.10	

Year	Mnth	Mandatory												Option									
		Climate			Gases			Precipitation						Precipitation					Gases	Particle	Particles Deposition		
		Temp C	RH %	Sun MJ/m ²	SO ₂ μg/m ³	NO ₂ μg/m ³	O ₃ μg/m ³	mm	pH	SO ₄ -S mg/l	NO ₃ -N mg/l	Cl mg/l	Cond μS/cm	NH ₄ -N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l	HNO ₃ μg/m ³	Conc μg/m ³	Cl mg/m ² d	SO ₄ -S mg/m ² d	NO ₃ -N mg/m ² d
2000	4	12.5	69	412	9.0	56.0	32	39.9					2.50	0.11			0.02		28.8	0.35	5.20	6.00	
2000	5	17.2	59	587	9.0	62.0	37	21.6					2.60	0.63			0.16		28.6	0.06	5.60	1.80	
2000	6	18.9	63	544	6.0	42.0	50	6.6															
2000	7	17.2	76	399	3.0	36.0	33	34.7					2.10	0.62			0.15		29.8	0.24	4.70	1.70	
2000	8	19.4	70	474	7.0	47.0	30	52.0					2.00	0.79			0.20		32.5	0.23	5.20	2.00	
2000	9	14.9	81	293	9.0	40.0	22	35.8					3.20	0.18			0.17		35.7	0.16	7.50	4.30	
2000	10	12.8	85	158	9.0	34.0	17	44.6					3.60	0.30			0.18		44.3	0.58	5.40	6.80	
2000	11	7.4	87	117	7.0	29.0	10	30.0					2.70	0.43			0.29		37.8	0.94	3.70	7.10	
2000	12	3.5	91	62	12.0	27.0	14	42.9					3.00	0.45			1.71		44.5	1.58	6.30	5.90	
2001	1	1.4	92	75	18.0	38.0	10	49.9		2.74	2.42	0.52	0.87	0.33	0.26	0.00	0.21		63.1	1.93	9.10	13.80	
2001	2	2.5	85	121	17.0	45.0	20	25.3		3.47	3.35	1.50	1.42	0.93	0.57	0.00	0.11		41.9	1.78	3.70	4.10	
2001	3	3.7	81	220	18.0	50.0	26	47.3		2.53	3.03	0.50	1.31	0.42	0.24	0.00	0.05		50.6	1.04	6.60	7.20	
2001	4	8.9	75	316	8.0	44.0	38	27.4		4.48	4.04	0.79	1.68	0.68	0.10	0.00	0.49		39.1	0.59	3.80	5.10	
2001	5	16.5	65	600	7.0	59.0	45	35.5		2.87	2.89	0.32	1.83	0.52	0.41	0.01	1.85		30.0	0.16	3.30	2.40	
2001	6	15.7	76	477	5.0	48.0	45	49.2		2.51	3.68	0.94	1.29	1.06	0.92	0.19	0.19		35.8	0.49	3.40	1.00	
2001	7	21.9	69	624	6.0	58.0	46	36.4		4.11	3.68	0.62	1.52	1.00	1.52	0.13	0.44		35.8	0.49	3.40	1.60	
2001	8	21.8	77	461	6.1	53.0	42	48.6		2.41	2.19	0.36	1.29	1.89	1.83	0.17	1.28		41.4	0.23	3.20	2.30	
2001	9	14.6	91	246	5.9	41.2	28	63.6		2.10	2.39	1.07	0.67	1.03	1.34	0.13	0.20		30.8	1.26	2.40	4.10	
2001	10	14.9	91	195	7.0	38.8	21	33.0		2.75	2.52	0.80	0.90	0.45	1.65	0.07	0.38		53.9	1.49	6.50	7.30	

Site 43: Tel Aviv, Israel.

Year	Mnth	Mandatory											Option										
		Climate			Gases			Precipitation					Precipitation					Gases	Particle	Particles Deposition			
		Temp C	RH %	Sun MJ/m2	SO ₂ μg/m ³	NO ₂ μg/m ³	O ₃ μg/m ³	mm	pH	SO4-S mg/l	NO3-N mg/l	Cl mg/l	Cond μS/cm	NH4-N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l	HNO3 μg/m ³	Conc μg/m ³	Cl mg/m ² d	SO4-S mg/m ² d	NO3-N mg/m ² d
1997	11	20.5	71		12.9	26.8	14	68.5	5.28	0.29	0.8	1.36		0.41	1.16	0.21	0.27	0.04					
1997	12	16.2	75		20.7	24.2	13	114.8	5.7	0.38	0.41	2.73		0.29	2.26	0.38	0.5	0.06					
1998	1	14.0	79		12.7	21.9	11	114.7	5.47	0.36	0.33	2.71		0.36	2.29	0.26	0.5	0.06					
1998	2	15.0	75		14.9	20.4	17	38.2	5.67	0.47	0.7	2.56		0.45	2.22	0.38	0.51	0.06					
1998	3	15.9	71		10.7	15.7	24	137.8	6.89	0.73	0.3	6.24		0.19	5.12	0.55	1.08	0.12					
1998	4	26.8	89		48.4	56.5	65	1.7															
1998	5	28.6	93		63.6	44.0	51	7.2															
1998	6	29.7	90		46.9	42.7	53	0.0															
1998	7	32.6	92		51.4	49.2	64	0.0															
1998	8	33.6	88		35.5	43.4	54	0.0															
1998	9	32.3	84		49.8	54.9	55	0.0															
1998	10	30.0	86		52.2	59.7	55	2.0															
1998	11	26.3	92		46.3	55.1	46	1.0															
1998	12	21.8	88		103.3	53.1	37	150.8															
1999	1	19.9	93		79.5	56.2	39	74.6															
1999	2	19.9	91		86.2	55.6	47	27.8															
1999	3	22.2	87		45.2	46.0	52	44.8															
1999	4	23.9	88		54.9	47.4	59	21.9															
1999	5	28.8	88		59.4	36.1	54	0.0															
1999	6	29.9	87		53.2	25.6	55	0.0															
1999	7	31.6	88		47.0		59	0.0															
1999	8	32.8	85		50.0	30.5	59	0.0															
1999	9	31.5	82		35.8	39.3	49	0.0															
1999	10	29.3	85		63.1	48.8	40	0.3															
1999	11	20.8	65		11.9	26.9		2.2															
1999	12	16.6	70		16.1	29.7		49.6															
2000	1	12.9	76		15.3	20.3	14	252.1															
2000	2	13.9	72		14.4	22.9	16	55.8															
2000	3	15.1	73		12.8	21.1	21	42.7															

Year	Mnth	Mandatory											Option										
		Climate			Gases			Precipitation					Precipitation					Gases	Particle	Particles Deposition			
		Temp C	RH %	Sun MJ/m2	SO ₂ μg/m ³	NO ₂ μg/m ³	O ₃ μg/m ³	mm	pH	SO4-S mg/l	NO3-N mg/l	Cl mg/l	Cond μS/cm	NH4-N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l	HNO3 μg/m ³	Conc μg/m ³	Cl mg/m ² d	SO4-S mg/m ² d	NO3-N mg/m ² d
2000	4	20.8	65		6.4	18.1	23	0.7															
2000	5	22.6	68		9.6	16.6		0.0															
2000	6	26.2	72		9.2	14.6		0.0															
2000	7	29.1	73		6.9	19.2	31	0.0															
2000	8	28.7	71		5.2	19.3	28	0.0															
2000	9	27.2	69		5.6	21.0	17	7.2															
2000	10	23.5	70		4.7	18.6	16	59.5															
2000	11	19.9	62		8.8	27.9	11	13.6															
2000	12	16.1	75		6.6	21.0		82.2															
2001	1	14.7	74		8.3	22.4		68.2															
2001	2	14.8	72		7.9	19.9		66.2															
2001	3	19.6	72		9.5	24.3	21	3.2															
2001	4	21.2	65		7.1	18.5	23	0.5															
2001	5	23.5	66		7.3	17.1	28	4.1															
2001	6	26.2	71		7.8	14.3	30	0.0															
2001	7	28.1	71		5.0	12.0	28	0.0															
2001	8	29.2	69		2.9	11.0	28	0.0															
2001	9	26.8	68		3.9	11.6	27	0.0															
2001	10	23.7	74		4.3	13.8	24	16.3															

Site: 44: Svanvik, Norway.

Year	Mnth	Mandatory											Option										
		Climate			Gases			Precipitation					Precipitation					Gases	Particle	Particles Deposition			
		Temp C	RH %	Sun MJ/m ²	SO ₂ µg/m ³	NO ₂ µg/m ³	O ₃ µg/m ³	mm	pH	SO ₄ -S mg/l	NO ₃ -N mg/l	Cl mg/l	Cond µS/cm	NH ₄ -N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l	HNO ₃ µg/m ³	Conc µg/m ³	Cl mg/m ² d	SO ₄ -S mg/m ² d	NO ₃ -N mg/m ² d
1997	11	-7.1			8.1	2.7		21.8	5.35	0.38	0.14	2.68	16.4	0.23	1.57	0.39	0.19	0.12					
1997	12	-9.2			4.7	2.5		14.5	5.65	0.40	0.19	2.83	17.4	0.35	1.62	0.37	0.18	0.19					
1998	1	-12.0			9.7	1.1	49	18.0	5.24	0.37	0.26	1.42	13.8	0.33	0.90	0.17	0.09	0.18					
1998	2	-20.8			7.9	1.5	66	22.4	5.02	0.47	0.13	3.03	18.5	0.20	1.60	0.15	0.22	0.10					
1998	3	-10.3			12.2	0.8	67	27.5	5.15	0.61	0.08	7.15	32.8	0.19	3.91	0.20	0.49	0.25					
1998	4	-4.1			5.1	0.5	63	18.6	4.38	1.47	0.23	7.53	48.6	0.50	3.74	0.25	0.48	0.22					
1998	5	3.2			3.3	0.4	60	8.0	4.68														
1998	6	7.2			19.8	0.3	49	70.3	4.44	0.79	0.08	0.41	18.6	0.17	0.23	0.08	0.05	0.04					
1998	7	13.4			3.9	0.3	47	44.4	5.03	0.30	0.08	0.17	6.5	0.15	0.12	0.23	0.06	0.09					
1998	8	10.6			5.7	0.4	42	21.4	5.17	0.72	0.17	0.23	60.0	0.58	0.18	0.46	0.23	0.19					
1998	9	5.7	79		6.3	0.3	49	60.5	4.96	0.27	0.08	0.77	10.1	0.12	0.42	0.05	0.06	0.04					
1998	10	1.2	80	1967	3.2	0.4	50	16.6	4.50	0.88	0.11	0.67	22.9	0.31	0.33	0.08	0.07	0.06					
1998	11	-12.2	85		6.1	1.7	36	14.7	5.11	0.51	0.19	0.60	11.7	0.46	0.31	0.10	0.08	0.12					
1998	12	-10.2	82		1.0	0.8	52	23.7	5.08	0.43	0.28	3.25	20.0	0.58	1.75	0.11	0.21	0.13					
1999	1	-17.0	81		15.0	3.6	50.5	10.3	4.77	0.65	0.28	2.38	21.5	0.38	1.21	0.13	0.18	0.09					
1999	2	-14.1	81		10.4	3.3	73	10.7	4.83	0.44	0.30	0.56	13.6	0.40	0.27	0.06	0.05	0.04					
1999	3	-6.2	78		18.6	1.9	80.6	11.1	4.83	0.97	0.35	1.21	21.7	0.58	0.69	0.21	0.16	0.09					
1999	4	-0.6	72		7.3	1.2	91.5	6.8	4.47	1.59	0.31	1.80	39.0	0.77	1.15	0.26	0.21	0.11					
1999	5	1.4	70		11.7	0.7	68	14.7	4.78	0.97	0.26	4.28	33.1	0.49	2.64	0.30	0.33	0.25					
1999	6	12.3	64		5.2	1.0	63	17.5	4.56	0.87	0.24	0.40	20.3	0.42	0.31	0.15	0.06	0.08					
1999	7	13.8	72		7.1	0.7	43.5	92.2	4.56	0.57	0.15	0.31	17.0	0.17	0.12	0.09	0.07	0.13					
1999	8	9.7	79		3.7	0.6	40.5	162.5	5.16	0.12	0.05	0.21	5.1	0.05	0.11	0.04	0.02	0.03					
1999	9	8.5	81		1.0	1.2	81	18.7	4.99	0.36	0.22	0.50	12.3	0.22	0.28	0.14	0.05	0.14					
1999	10	2.6	88	1834	4.1	1.1	58	89.3	5.05	0.29	0.10	0.59	9.5	0.16	0.30	0.08	0.04	0.04					
1999	11	-2.9	84		3.6	2.0	55.5	11.8	4.93	0.71	0.11	2.59	21.0	0.20	1.35	0.14	0.18	0.06					
1999	12	-12.9	87		6.0	3.6	50	17.5	5.06	0.39	0.25	3.23	20.0	0.32	1.68	0.09	0.19	0.08					
2000	1	-9.9	86		4.4	3.4	63.5	34.3	5.17	0.27	0.13	2.50	14.7	0.18	1.30	0.06	0.15	0.06					
2000	2	-9.5	86		10.9	2.8	67.5	24.1	5.23	0.20	0.08	0.78	8.3	0.18	0.41	0.02	0.04	0.03					
2000	3	-5.8	81		7.8	1.8	84	35.7	4.87	0.53	0.09	4.60	26.4	0.10	2.53	0.15	0.31	0.11					

Year	Mnth	Mandatory											Option										
		Climate			Gases			Precipitation					Precipitation					Gases	Particle	Particles Deposition			
		Temp C	RH %	Sun MJ/m ²	SO ₂ μg/m ³	NO ₂ μg/m ³	O ₃ μg/m ³	mm	pH	SO4-S mg/l	NO3-N mg/l	Cl mg/l	Cond μS/cm	NH4-N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l	HNO3 μg/m ³	Conc μg/m ³	Cl mg/m ² d	SO4-S mg/m ² d	NO3-N mg/m ² d
2000	4	-1.1	77		9.1	1.1	76.5	33.9	4.56	0.81	0.23	0.94	19.8	0.23	0.50	0.17	0.13	0.06					
2000	5	4.3	71		3.4	0.8	60.5	27.9	4.61	0.75	0.25	0.79	20.6	0.39	0.51	0.31	0.07	0.06					
2000	6	9.4	71		6.6	1.0	58.5	47.0	4.51	0.81	0.18	0.81	20.6	0.16	0.44	0.10	0.07	0.08					
2000	7	13.9	71		10.4	1.3	44	69.4	4.36	0.77	0.11	0.17	21.5	0.03	0.11	0.10	0.03	0.07					
2000	8	11.4	80		5.9	1.1	33.5	67.4	5.00	0.52	0.08	0.24	10.8	0.50	0.21	0.05	0.05	0.14					
2000	9	7.5	81		1.0	1.4	38	37.9	4.85	0.36	0.17	0.69	11.9	0.33	0.43	0.05	0.05	0.10					
2000	10	4.9	85	1731	1.9	1.1	45	25.5	4.84	0.44	0.17	3.64	23.5	0.25	2.25	0.12	0.27	0.11					
2000	11	-1.4	89		4.8	1.9	31	16.6	4.75	0.77	0.24	0.17	18.1	0.52	0.11	0.26	0.04	0.06					
2000	12	-10.9	88		9.1	2.3	36	16.6	5.08	0.28	0.20	0.45	9.3	0.18	0.25	0.07	0.05	0.04					
2001	1	-6.3	85		4.5	0.7	53	14.0	4.83	0.36	0.35	0.65	17.2	0.46	0.38	0.08	0.07	0.04					
2001	2	-15.2	83		8.8		58	24.0	5.22	0.20	0.11	1.09	10.5	0.17	0.58	0.05	0.07	0.09					
2001	3	-12.9	81		11.3		65	23.8	4.85	0.78	0.10	5.58	31.5	0.35	3.05	0.01	0.37	0.15					
2001	4	-2.4	76		5.6		78	15.0	4.61	1.51	0.29	0.71	27.4	0.61	0.45	0.54	0.11	0.07					
2001	5	3.2	71		2.9		66	6.2	4.72	1.83	0.21	11.77	61.8	0.54	7.01	0.56	0.88	0.32					
2001	6	11.7	63		7.6		47	9.9	4.36	2.05	0.27	1.06	37.4	0.81	0.75	0.32	0.20	0.41					
2001	7	14.1	75		1.7		44	81.4	5.37	1.22	0.17	0.28	34.3	0.34	0.11	0.20	0.08	0.11					
2001	8	10.9	79		1.9		34	73.3	4.64	0.51	0.12	0.14	17.4	0.14	0.08	0.10	0.03	0.02					
2001	9	8.6	83		0.9		35	31.3	5.31	0.47	0.04	0.68	11.3	0.40	0.44	0.14	0.07	0.18					
2001	10	-0.3	88		2.7		43	49.2	5.03	0.39	0.07	2.29	16.7	0.24	1.30	0.14	0.15	0.08					

Site 45: Chaumont, Switzerland.

Year	Mnth	Mandatory												Option									
		Climate			Gases			Precipitation						Precipitation					Gases	Particle	Particles Deposition		
		Temp C	RH %	Sun MJ/m2	SO ₂ µg/m ³	NO ₂ µg/m ³	O ₃ µg/m ³	mm	pH	SO4-S mg/l	NO3-N mg/l	Cl mg/l	Cond µS/cm	NH4-N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l	HNO3 µg/m ³	Conc µg/m ³	Cl mg/m ² d	SO4-S mg/m ² d	NO3-N mg/m ² d
1997	11	3.2	82	141	0.9	10.2	67	64.2	5.00	0.14	0.17	0.13	7.0	0.14	0.08	0.16	0.03	0.01					
1997	12	0.3	83	90	1.5	8.7	63	115.7	4.83	0.12	0.19	0.25	8.9	0.09	0.15	0.06	0.03	0.01					
1998	1	0.2	79	135	1.7	7.6	66	87.5	4.86	0.16	0.16	0.26	8.6	0.08	0.14	0.09	0.04	0.02					
1998	2	3.0	67	275	2.1	8.9	84	17.1	5.35	0.39	0.28	0.12	9.2	0.41	0.08	0.64	0.03	0.04					
1998	3	2.4	68	351	2.0	8.0	87	35.8	5.35	0.38	0.27	0.32	9.7	0.46	0.19	0.45	0.07	0.05					
1998	4	4.2	81	389	0.9	6.9	95	154.4	5.02	0.32	0.18	0.10	9.5	0.25	0.08	0.29	0.02	0.03					
1998	5	11.0	68	668	1.5	7.0	117	54.9	5.18	0.26	0.29	0.05	10.3	0.50	0.09	0.32	0.02	0.04					
1998	6	13.0	75	624	0.8	7.6	98	80.1	5.23	0.38	0.23	0.18	9.4	0.36	0.35	0.49	0.05	0.04					
1998	7	14.8	73	612	1.1	6.6	93	65.4	5.01	0.53	0.30	0.12	15.1	0.48	0.17	1.09	0.06	0.09					
1998	8	15.1	72	572	1.2	6.8	113	93.7	5.01	0.37	0.23	0.10	9.7	0.32	0.09	0.33	0.03	0.04					
1998	9	9.9	87	336	0.8	8.0	82	167.7	5.01	0.27	0.21	0.21	9.1	0.19	0.19	0.38	0.04	0.03					
1998	10	6.0	87	195	0.5	5.7	66	116.4	4.92	0.20	0.16	0.27	8.3	0.14	0.15	0.05	0.02	0.04					
1998	11	-1.3	82	139	1.7	7.5	65	94.7	4.78	0.19	0.18	0.15	9.7	0.10	0.07	0.02	0.01	0.02					
1998	12	-0.5	75	122	1.5	6.6	70	48.3	4.76	0.17	0.21	0.41	10.6	0.09	0.22	0.02	0.03	0.01					
1999	1	0.5	74	151	1.2	5.7	72	73.3	4.87	0.17	0.18	0.26	9.2	0.12	0.14	0.04	0.02	0.01					
1999	2	-3.4	88	174	2.6	8.0	74	141.3	4.88	0.17	0.17	0.32	9.3	0.13	0.17	0.11	0.02	0.01					
1999	3	2.4	77	351	1.5	10.9	88	65.7	4.87	0.24	0.25	0.15	10.2	0.23	0.05	0.16	0.01	0.02					
1999	4	4.6	82	389	0.9	9.1	98	141.2	5.16	0.30	0.24	0.23	10.9	0.30	0.12	0.73	0.03	0.03					
1999	5	11.7	80	524	0.8	7.5	93	119.2	5.05	0.35	0.29	0.12	10.4	0.36	0.08	0.42	0.04	0.04					
1999	6	11.3	79	588	0.9	7.8	100	105.6	4.96	0.35	0.30	0.12	10.7	0.38	0.08	0.35	0.03	0.05					
1999	7	15.2	78	693	1.0	7.0	102	111.8	4.84	0.39	0.29	0.07	11.5	0.35	0.05	0.30	0.02	0.03					
1999	8	15.0	80	517	1.2	7.7	96	81.4	4.87	0.47	0.36	0.15	13.4	0.45	0.13	0.49	0.04	0.04					
1999	9	13.3	82	381	1.2	8.2	95	131.8	4.93	0.27	0.19	0.13	8.8	0.18	0.11	0.15	0.02	0.02					
1999	10	7.0	86	241	0.7	9.9	60.2	89.5	5.16	0.14	0.12	0.14	5.3	0.11	0.07	0.14	0.02	0.02					
1999	11	0.0	83	148	1.3	8.8	59.2	61.4	4.73	0.19	0.27	0.31	11.2	0.13	0.16	0.05	0.02	0.03					
1999	12	-1.2	84	103	0.9	5.2	68.4	91.5	5.11	0.12	0.09	0.22	5.5	0.07	0.12	0.08	0.03	0.02					
2000	1	-2.2	84	146	1.3	7.7	63.4	30.3	4.81	0.20	0.22	0.15	9.7	0.13	0.08	0.06	0.01	0.03					
2000	2	0.8	81	209	0.9	5.8	75.9	146.0	4.87	0.21	0.16	0.26	8.9	0.17	0.17	0.03	0.02	0.03					
2000	3	2.3	75	340	1.0	10.3	82.9	17.8	5.02	0.64	0.78	0.30	22.8	1.17	0.21	0.88	0.07	0.10					

Year	Mnth	Mandatory												Option									
		Climate			Gases			Precipitation						Precipitation					Gases	Particle	Particles Deposition		
		Temp C	RH %	Sun MJ/m ²	SO ₂ μg/m ³	NO ₂ μg/m ³	O ₃ μg/m ³	mm	pH	SO4-S mg/l	NO3-N mg/l	Cl mg/l	Cond μS/cm	NH4-N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l	HNO3 μg/m ³	Conc μg/m ³	Cl mg/m ² d	SO4-S mg/m ² d	NO3-N mg/m ² d
2000	4	6.4	73	436	1.4	9.9	92.8	64.2	5.11	0.37	0.40	0.11	12.1	0.48	0.11	0.47	0.03	0.05					
2000	5	11.2	75	574	0.6	8.2	98.7	139.9	5.40	0.30	0.26	0.10	9.3	0.41	0.08	0.51	0.03	0.05					
2000	6	13.9	74	638	1.1	6.8	107	68.9	5.38	0.57	0.41	0.14	12.7	0.72	0.12	0.47	0.03	0.04					
2000	7	11.8	80	531	0.8	6.6	85.4	172.3	5.11	0.40	0.32	0.18	11.7	0.36	0.12	0.58	0.05	0.04					
2000	8	15.4	76	538	0.9	7.1	102	93.7	5.42	0.46	0.34	0.16	11.9	0.58	0.12	0.71	0.05	0.05					
2000	9	12.0	81	450	1.0	7.4	87.5	49.7	5.07	0.19	0.21	0.06	7.4	0.18	0.04	0.22	0.02	0.02					
2000	10	7.1	86	223	0.6	6.0	67.1	136.1	5.19	0.20	0.12	0.07	6.8	0.24	0.05	0.31	0.03	0.06					
2000	11	2.7	86	123	0.7	5.5	62	105.4	5.11	0.08	0.11	0.17	5.2	0.07	0.14	0.11	0.03	0.02					
2000	12	2.7	78	107	0.6	6.4	63	72.2	5.23	0.16	0.15	0.18	6.0	0.14	0.14	0.28	0.03	0.02					
2001	1	0.5	79	114	1.2	8.1	65	141.9	5.04	0.12	0.14	0.10	5.4	0.09	0.05	0.09	0.03	0.01					
2001	2	0.3	74	195	1.6	10.8	67	90.5	5.10	0.14	0.19	0.08	6.5	0.16	0.04	0.06	0.01	0.01					
2001	3	3.8	88	226	0.6	5.9	81	180.8	5.57	0.14	0.14	0.15	4.7	0.14	0.09	0.18	0.02	0.02					
2001	4	3.2	80	372	0.8	6.3	92	143.0	5.16	0.18	0.22	0.12	7.0	0.24	0.06	0.08	0.01	0.01					
2001	5	11.9	75	578	1.0	8.4	99	68.8	5.13	0.39	0.38	0.12	10.6	0.46	0.07	0.22	0.02	0.05					
2001	6	11.6	76	626	1.0	6.2	102	103.0	4.93	0.49	0.34	0.13	12.6	0.41	0.08	0.24	0.02	0.05					
2001	7	14.9	76	623	0.9	6.1	104	103.1	5.26	0.32	0.21	0.10	9.2	0.24	0.06	0.57	0.04	0.03					
2001	8	15.7	78	580	1.4	6.5	103	89.9	5.19	0.34	0.20	0.08	8.2	0.29	0.05	0.19	0.02	0.02					
2001	9	7.9	88	282	0.6	5.5	72	107.6	4.93	0.29	0.29	0.21	10.3	0.27	0.13	0.11	0.02	0.03					
2001	10	11.5	79	302	1.2	7.2	75	75.1	5.14	0.22	0.16	0.09	6.6	0.18	0.06	0.09	0.01	0.02					

Site 46: London, United Kingdom.

Year	Mnth	Mandatory											Option											
		Climate			Gases			Precipitation					Precipitation					Gases	Particle	Particles Deposition				
		Temp C	RH %	Sun MJ/m ²	SO ₂ μg/m ³	NO ₂ μg/m ³	O ₃ μg/m ³	mm	pH	SO ₄ -S mg/l	NO ₃ -N mg/l	Cl mg/l	Cond μS/cm	NH ₄ -N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l	HNO ₃ μg/m ³	Conc μg/m ³	Cl mg/m ² d	SO ₄ -S mg/m ² d	NO ₃ -N mg/m ² d	
1997	11	9.9		86			54.2	6.59	0.41	0.15	7.58			4.14		0.58	0.32							
1997	12	7.3	79	53			46.8	6.96	0.03	0.03	5.26			2.85		0.41	0.24							
1998	1	6.8	73	74			63.6	5.66	0.70	0.17	12.82			7.07		0.96	0.51							
1998	2	8.3	68	140			4.8	5.89	0.68	0.16	12.91			7.12		0.96	0.51							
1998	3	9.3	68	203			49.0	5.62	0.47	0.20	5.91			3.21		0.46	0.26							
1998	4	9.7	72	293	6.6	47.8	38	111.0		0.56	0.36	0.17			0.00		0.04	0.05						
1998	5	14.8	65	544	6.6	47.8	38	34.0	6.85	0.26	0.17	3.16			1.67		0.26	0.16						
1998	6	16.1	71	451	4.6	36.5	38	105.0	5.76	0.23	0.20	0.91			0.41		0.09	0.08						
1998	7	17.2	65	400	5.5	41.4	41	36.0	4.68	3.36	1.45	4.01			2.15		0.32	0.19						
1998	8	18.4	61	534	3.3	43.7	37	20.0	6.68	-0.05	0.09	0.44			0.15		0.06	0.06						
1998	9	16.6	73	291	11.1	52.0	33	74.0	5.95	0.89	0.39	5.42			2.94		0.42	0.24						
1998	10	12.3	75	159	6.1	48.0	26	108.0	6.79	-0.11	0.03	2.57			1.34		0.21	0.14						
1998	11	7.5	75	106	13.0	64.0	47	91.0	7.04	0.63	0.24	7.42			4.06		0.56	0.31						
1998	12	7.9	77	59	5.8	49.0	30	56.0	6.71	0.14	0.03	7.53			4.12		0.57	0.32						
1999	1	7.3	77	76	10.1	52.5	35	66.0																
1999	2	6.3	71	160	8.2	50.6	28	19.0																
1999	3	9.2	69	250	6.6	42.0	39	31.0																
1999	4	9.8	67	334	5.8	41.6	45	46.5																
1999	5	15.1	66	447	7.3	32.0	55	38.8																
1999	6	16.2	64	533	5.2	40.0	48	35.2																
1999	7	19.7	61	587	6.8	44.0	48	84.6																
1999	8	18.7	67	460	7.2	29.0	38	10.6																
1999	9	17.8	73	326	5.9	40.0	28	64.2																
1999	10	12.7	72	227	9.6	94.0	25	108.3																
1999	11	9.3	76	111	5.9	56.0	25	44.2																
1999	12	6.6	75	68	6.9	53.0	25	24.4																
2000	1	6.6	78	83	8.2	53.0	33	79.0																
2000	2	8.0	73	147	5.3	43.0	31	19.8																
2000	3	8.9	69	236	8.4	51.0	38	65.6																

Year	Mnth	Mandatory											Option										
		Climate			Gases			Precipitation					Precipitation					Gases	Particle	Particles Deposition			
		Temp C	RH %	Sun MJ/m ²	SO ₂ μg/m ³	NO ₂ μg/m ³	O ₃ μg/m ³	mm	pH	SO4-S mg/l	NO3-N mg/l	Cl mg/l	Cond μS/cm	NH4-N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l	HNO3 μg/m ³	Conc μg/m ³	Cl mg/m ² d	SO4-S mg/m ² d	NO3-N mg/m ² d
2000	4	9.7	72	243	5.5	44.0	45	14.0															
2000	5	14.0	70	290	4.4	43.0	46	113.8															
2000	6	17.6	66	294	5.7	33.0	42	91.2															
2000	7	17.1	69	300	3.9	37.0	34	12.8															
2000	8	18.9		293	4.9	46.2	32	40.6															
2000	9	16.8		222	3.8	28.7	22	30.2															
2000	10	12.2		163	7.3	69.3	24	121.0															
2000	11	8.9		97	4.3	53.0	26	153.7															
2000	12	7.6		54	4.3	49.0	27	106.8															
2001	1	5.4	77	87	12.0	59.0	22	62.6															
2001	2	6.6	76	138	6.6	51.0	24	78.2															
2001	3	7.1	76	172	5.9	52.0	42	100.0															
2001	4	9.5	70	272	5.3	33.0	51	68.8															
2001	5	14.3	62	269	4.5	26.0	52	33.8															
2001	6	16.7	60	244	6.1	36.5	43	37.4															
2001	7	19.8	63	306	6.9	37.0	54	37.4															
2001	8	19.1	69	293	4.9	26.0	32	77.6															
2001	9	14.8	66	241	2.8	39.0	29	45.4															
2001	10	15.1		191	6.2	66.0	20	105.0															

Site 47: LosAngeles, USA (CA)

Year	Mnth	Mandatory											Option										
		Climate			Gases			Precipitation					Precipitation					Gases	Particle	Particles Deposition			
		Temp C	RH %	Sun MJ/m2	SO ₂ μg/m ³	NO ₂ μg/m ³	O ₃ μg/m ³	mm	pH	SO4-S mg/l	NO3-N mg/l	Cl mg/l	Cond μS/cm	NH4-N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l	HNO3 μg/m ³	Conc μg/m ³	Cl mg/m ² d	SO4-S mg/m ² d	NO3-N mg/m ² d
1997	11	18.3	42		0.3	9.5	33	7.5	5.40										2.6				
1997	12	15.3	45		0.5	4.1	31	11.4	5.10										3.4				
1998	1	14.8	52		1.0	33.0	51	11.6	5.90										8.5				
1998	2	13.6	53		0.0	19.0	44	52.9	6.30														
1998	3	15.7	54		0.0	22.0	49	13.4	6.10														
1998	4	15.3	50	681	0.1	24.0	54	4.2	5.90										4.6				
1998	5	15.1	80	676	0.5	16.0	52	9.3	5.90										3.6				
1998	6	17.1	82	681	0.8	20.0	56	0.4											1.7				
1998	7	21.7	76	763	1.8	26.0	55	0.0											1.8				
1998	8	23.4	63	710	1.4	34.0	60	0.0											2.9				
1998	9	19.8	80	498	0.1	27.0	52	0.7											4.9				
1998	10	18.9	60	456	0.4	26.0	45		5.70	0.15	0.24	0.56	31.3						2.2				
1998	11	15.8	57	324	0.5	20.0	37		6.55	22.00	31.00	33.00	292.0						3.1				
1998	12	14.2	40	275	1.2	46.0	37	0.0											4.5				
1999	1	14.1	54	295	0.3	33.0	34	5.5	6.05	9.80	1.40	2.60	28.7						2.1				
1999	2	13.1	60	333	0.4	47.0	67	3.3	6.30	13.00	0.09	2.80	41.5										
1999	3	11.5	74	496	0.3	27.0	54	110.2	5.85	9.00	0.47	2.20	25.1										
1999	4	13.5	63	558	0.2	26.0	64	0.0					26.0										
1999	5	14.9	77	621	0.0	20.0	62	26.2	6.05	4.50	0.00	8.50											
1999	6	16.5	78	763	0.0	21.0	54	0.0															
1999	7	20.5	66	744	0.9	28.0	50	0.0															
1999	8	20.8	64	716				0.0															
1999	9	18.7	71	536				0.0															
1999	10	22.8	38	474				0.0															
1999	11	16.6	56	335																			
1999	12	16.3	27	288																			
2000	1	14.5	59	313																			
2000	2	12.6	73	335																			
2000	3	13.5	68	498																			

Year	Mnth	Mandatory											Option										
		Climate			Gases			Precipitation					Precipitation					Gases	Particle	Particles Deposition			
		Temp C	RH %	Sun MJ/m ²	SO ₂ μg/m ³	NO ₂ μg/m ³	O ₃ μg/m ³	mm	pH	SO ₄ -S mg/l	NO ₃ -N mg/l	Cl mg/l	Cond μS/cm	NH ₄ -N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l	HNO ₃ μg/m ³	Conc μg/m ³	Cl mg/m ² d	SO ₄ -S mg/m ² d	NO ₃ -N mg/m ² d
2000	4	16.0	70	775																			
2000	5	17.6	72	727																			
2000	6	19.1	77	822																			
2000	7	19.8	74	807																			
2000	8	19.0	71	742																			
2000	9	22.6	57	730																			
2000	10	19.0	64	840																			
2000	11	19.7	34	840																			
2000	12	14.5	40	276																			
2001	1	13.3	45	346																			
2001	2	11.8	68	296																			
2001	3	13.1	84	461																			
2001	4	11.9	83	391																			
2001	5	15.9	76	675																			
2001	6	17.6	79	708																			
2001	7	18.4	83	633																			
2001	8	20.8	75	720																			
2001	9	21.1	71	576																			
2001	10	18.6	73	414																			

Site 49: Antwerp, Belgium.

Year	Mnth	Mandatory											Option											
		Climate			Gases			Precipitation					Precipitation					Gases	Particle	Particles Deposition				
		Temp C	RH %	Sun MJ/m ²	SO ₂ μg/m ³	NO ₂ μg/m ³	O ₃ μg/m ³	mm	pH	SO ₄ -S mg/l	NO ₃ -N mg/l	Cl mg/l	Cond μS/cm	NH ₄ -N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l	HNO ₃ μg/m ³	Conc μg/m ³	Cl mg/m ² d	SO ₄ -S mg/m ² d	NO ₃ -N mg/m ² d	
1997	11	6.9	82	99	19.0	56.0	19																	1997
1997	12	5.8	82	47	24.0	49.0	12																	1997
1998	1	5.1	78	67	25.0	67.0	20															48.0		1998
1998	2	5.0	75	160	42.0	65.0	27															46.0		1998
1998	3	8.4	75	195	27.0	56.0	32															31.0		1998
1998	4	10.0	76	281	22.0	54.0	28															54.0		1998
1998	5	16.2	66	457	18.0	51.0	50															38.0		1998
1998	6	16.7	73	467	20.0	44.0	35															26.0		1998
1998	7	17.3	72	414	23.0	44.0	33	26.4	5.41	3.66	1.31	3.66	35.3									24.0		1998
1998	8	18.5	68	462	23.0	49.0	42	35.3	5.43	1.98	1.04	3.21	47.8									30.0		1998
1998	9	15.8	80	265	18.0	53.0	18	161.0	4.91	0.94	0.32	3.62	29.4									29.0		1998
1998	10	10.8	81	113	13.0	45.0	17	157.6	5.19	1.51	0.36	4.28	39.3									22.0		1998
1998	11	4.7	82	106	29.0	64.0	20	71.9	5.09	1.65	0.66	3.59	40.9									44.0		1998
1998	12	8.3	83	52	22.0	51.0	18	69.7	4.72	1.57	0.37	5.23	40.5									28.0		1998
1999	1	6.3	79	82	17.0	53.0	17	67.2	5.07	1.17	0.44	2.87	27.6									22.0		1999
1999	2	4.4	79	118	26.0	57.0	23	62.8	4.60	2.29	0.54	10.99	67.9									29.0		1999
1999	3	8.4	75	254	22.0	59.0	20	37.4	4.65	2.29	1.04	2.13	44.3									28.0		1999
1999	4	10.8	73	344	13.0	47.0	36	54.8	5.71	2.00	0.71	2.26	40.6									24.0		1999
1999	5	15.5	66	507	12.0	38.0	39															25.0		1999
1999	6	16.3	69	518	10.0	44.0	47															22.0		1999
1999	7	20.3	67	580	9.0	37.0	55															25.0		1999
1999	8	18.5	71	497	10.0	47.0	39															24.0		1999
1999	9	18.5	75	267	12.0	56.0	26															33.0		1999
1999	10	11.7	79	165	16.0	30.0	9															27.0		1999
1999	11	7.3	82	99	15.0	56.0	19	55.8	4.84	2.19	0.48	5.15	46.8									27.0		1999
1999	12	5.6	83	53	15.0	50.0	28	135.7	5.36	1.02	0.28	2.67	24									21.0		1999
2000	1	5.2	82	72	22.0	58.0	22	27.5	4.90	2.16	0.72	2.31	49.5									31.0		2000
2000	2	7.1	76	151	29.0	52.0	31	54.8	5.17	1.63	0.52	3.27	35.2									28.0		2000
2000	3	7.7	79	216	19.0	51.0	38	52.3	5.62	2.25	0.74	2.99	41.1									31.0		2000

Year	Mnth	Mandatory												Option										
		Climate			Gases			Precipitation						Precipitation					Gases	Particle	Particles Deposition			
		Temp C	RH %	Sun MJ/m ²	SO ₂ μg/m ³	NO ₂ μg/m ³	O ₃ μg/m ³	mm	pH	SO4-S mg/l	NO3-N mg/l	Cl mg/l	Cond μS/cm	NH4-N mg/l	Na mg/l	Ca mg/l	Mg mg/l	K mg/l	HNO3 μg/m ³	Conc μg/m ³	Cl mg/m ² d	SO4-S mg/m ² d	NO3-N mg/m ² d	
2000	4	11.2	69	399	15.0	51.0	36	25.4	5.69	0.79	0.91	0.57	38.6								23.0			2000
2000	5	15.8	71	466	12.0	53.0	43	85.8	5.67	1.47	0.80	1.19	30.4								29.0			2000
2000	6	17.5	67	600	17.0	42.0	45	46.1	5.17	1.71	0.75	1.33	31.1								21.0			2000
2000	7	16.3	79	389	14.0	39.0	34	207.3	5.12	1.61	0.67	3.34	36.4								21.0			2000
2000	8	19.0	72	523	16.0	43.0	35	79.0	5.32	1.03	0.58	1.26	23.3								23.0			2000
2000	9	17.4	78	300	13.0	47.0	20	100.8	5.65	1.09	0.51	1.50	23.5								26.0			2000
2000	10	12.4	81	173	14.0	46.0	18	137.5	5.13	1.12	0.35	2.23	23.8								23.0			2000
2000	11	8.8	82	92	12.0	48.0	17	102.7	5.41	1.05	0.34	1.59	21.7								21.0			2000
2000	12	6.2	82	56	15.0	47.0	14	66.8	5.49	1.26	0.40	1.93	25.1								26.0			2000
2001	1	3.9	84	82	20.0	58.0	13	100.3	5.17	0.78	0.32	1.43	16.5											2001
2001	2	5.7	82	123	19.0	53.0	18	49.8	4.56	1.34	0.73	1.65	29.3								26.0			2001
2001	3	6.7	81	192	14.0	55.0	27	72.6	4.78	1.01	0.52	1.28	21.8								28.0			2001
2001	4	9.4	72	317	13.0	49.0	43	62.3	4.66	1.15	0.51	2.17	28.5								20.0			2001
2001	5	15.6	65	606	14.0	41.0	52	14.6	5.99	2.61	1.24	1.12	47.9								27.0			2001
2001	6	16.3	65	558	13.0	43.0	50	47.7	4.36	1.58	0.68	3.66	41.0								26.0			2001
2001	7	18.0	73	530	9.0	40.0	49	130.8	4.91	0.57	0.35	0.48	14.4								25.0			2001
2001	8	20.1	70	507	7.0	42.0	41	97.4	4.91	0.72	0.41	0.53	17.7								24.0			2001
2001	9	14.5	71	237	12.0	50.0	22	203.9	4.48	0.83	0.25	4.71	34.3								23.0			2001
2001	10	15.2	71	210	14.0	40.0	15	43.6	4.66	1.23	0.42	7.87	46.6											2001

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ABSTRACT This report presents the database for the second phase of the ECE ICP material programme. The report presents the available data for the four exposure years 1997/98, 1998/99, 1999/00 and 2000/01 as yearly and monthly data and the mean values for the exposure periods. The report evaluates the changes in the concentrations as trend analysis and the spread in the yearly mean values for the exposure sites.			
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