



Commission of the European Communities

environment and quality of life

EXCHANGE OF INFORMATION CONCERNING ATMOSPHERIC POLLUTION IN THE EUROPEAN COMMUNITY

Annual Report 1981



Report
EUR 12096 EN

Commission of the European Communities

environment and quality of life

EXCHANGE OF INFORMATION CONCERNING ATMOSPHERIC POLLUTION IN THE EUROPEAN COMMUNITY

Annual Report 1981

APRECO

Rue de l'Aurore, 21
B-1050 Bruxelles

Contract No. BM(83)255(713)

FINAL REPORT

Directorate-General
Environment, Nuclear Safety and Civil Protection

1989

PAP. []
✓
CEUR 12096 EN

**Published by the
COMMISSION OF THE EUROPEAN COMMUNITIES
Directorate-General
Telecommunications, Information Industries and Innovation**

L-2920 LUXEMBOURG

LEGAL NOTICE

Neither the Commission of the European Communities nor any person acting on behalf of the Commission is responsible for the use which might be made of the following information

Catalogue number: CD-NA-12096-EN-C

© ECSC—EEC—EAEC Brussels - Luxembourg, 1989

III
Annual Report 81

TABLE OF CONTENTS

Abstract

Summary

Introduction

Chapter I General presentation of the series

- I.1 Content of the exchange of information
- I.2 Summary of the measured pollutants by country
and by town class
- I.3 Breakdown of the annual series by the
measurement technique codes
- I.4 The monthly median
- I.5 Characteristics of the annual series
- I.6 Technical remarks

Chapter II Treatment of the selected series

- II.1 Introduction
- II.2 Non-parametric statistics
- II.3 Parametric statistics
 - II.3.1 Definitions
 - II.3.2 Comments on the histograms
- II.4 Characteristics of the time series

Table of Figures

Table of Annexes

Abbreviated descriptive tables

IV
Annual Report 81

ACKNOWLEDGMENTS

We wish to express our appreciation to Dr. J. Smeets, Head of Division at DG XI, E.E.C - and his collaborators, MM. Stief-Tauch, A. Price, K.H. Zierock, for their constructive comments during the elaboration of this report.

V
Annual Report 81

ABSTRACT

The annual report 1981 concerning the exchange of information on atmospheric pollution in the European Communities is presented in this document.

This report aims at presenting the content of the exchange of information as required by the Council Decision 82/459/EEC.

It summarizes and evaluates the data for certain sulphur compounds and suspended particulates for the year 1981 from measuring stations selected by the Member States in accordance with an agreed procedure.

SUMMARY

This report presents an original analysis of the 1981's air pollution data for specific pollutants in the countries of the European Communities.

This work is based on previous recommendations appearing in the first report on Comparative Study on Data Analysis (ref. APRECO BM (83) 254(711) of July 1984).

The report is divided in two parts. The first part concerns a general presentation of the stations which submitted measurements. The second part related to the evaluation of the statistical parameters characterizing the series is divided into:

- descriptive statistics
- time series analyses.

The main goal of this report on the exchange of information is to propose a reference document terse and easy to examine.

SAMMENFATNING

I denne rapport fremlægges der en ny analyse af 1981-dataene for luftforurening med bestemte forurenende stoffer i De europæiske Fællesskabers medlemslande.

Dette arbejde er baseret på tidligere henstillinger i den første rapport om sammenlignende undersøgelser vedrørende dataanalyse (APRECO BM (83) 254(711), juli 1984).

Rapporten falder i to dele. Den første indeholder en generel præsentation af de stationer, som forelagde målinger. Den anden del, der vedrører vurderingen af de statistiske parametre, der kendetegner serierne, er delt i :

- beskrivende statistik,
- tidsserieanalyse.

Meningen med denne rapport om udveksling af oplysninger er først og fremmest, at den skal udgøre et stramt opbygget og let overskueligt referencedokument.

ZUSAMMENFASSUNG

Der vorliegende Bericht ist eine Originalanalyse der 1981 in den Ländern der Europäischen Gemeinschaften verzeichneten Luftverschmutzungsdaten für spezifische Schadstoffe. Diese Arbeit basiert auf den im ersten Bericht über vergleichende Studien über Datenanalysen enthaltenen Empfehlungen (siehe APRECO BM (83) 254(711) vom Juli 1984).

Der Bericht besteht aus zwei Teilen. Der erste Teil umfaßt eine allgemeine Darstellung der Stationen, die Meßdaten übermittelt haben. Der zweite Teil der sich auf die Bewertung der für die Reihen kennzeichnenden statistischen Parameter bezieht, ist eingeteilt in :

- beschreibende Statistiken
- Zeitreihen-Analysen.

Mit diesem Bericht über den Informationsaustausch soll in erster Linie ein knapp gefaßtes und leicht lesbares Referenzdokument zur Verfügung gestellt werden.

RESUME

Ce rapport présente une analyse originale des données de la pollution atmosphérique en 1981, pour des polluants spécifiques, dans les pays des Communautés Européennes.

Le travail est basé sur de précédentes recommandations figurant dans le premier rapport sur l'étude comparative de l'analyse des données (ref. APRECO BM(83) 254(711) de juillet 1984).

Le rapport comporte deux parties. La première partie est une présentation générale des stations qui ont fourni les mesures. La seconde partie, liée à l'évaluation des paramètres statistiques caractérisant les séries, est subdivisée en:

- statistique descriptive
- analyse en série chronologique.

Le but principal de ce rapport sur l'échange d'information est de proposer un document de référence précis et d'examen aisé.

Ετήσια έκθεση 81

ΠΕΡΙΛΗΨΗ

Στην παρούσα έκθεση δίδεται για το έτος 1981 νέου τύπου ανάλυση των δεδομένων ατμοσφαιρικής ρύπανσης όσον αφορά ορισμένους ρυπαντές στις χώρες των Ευρωπαϊκών Κοινοτήτων.

Η εργασία αυτή έλαβε σαν βάση παλαιότερες συστάσεις που έχουν περιληφθεί στην πρώτη έκθεση σχετικά με συγκριτική μελέτη ανάλυσης δεδομένων (APRECO ΒΜ(83) 254 (711) του Ιουλίου 1984).

Η έκθεση διαιρείται σε δύο μέρη. Το πρώτο μέρος ασχολείται με την παρουσίαση γενικά των σταθμών μέτρησης. Το δεύτερο μέρος έχει σχέση με την αξιολόγηση των στατιστικών παραμέτρων που χαρακτηρίζουν τη σειρά και περιλαμβάνει :

- περιγραφικά στατιστικά στοιχεία και
- ανάλυση χρονικών σειρών.

Ο κύριος στόχος της παρούσας έκθεσης για την ανταλλαγή πληροφοριών είναι να προτείνει ένα έγγραφο αναφοράς απλό και εύχρηστο.

RIASSUNTO

La relazione presenta un'analisi originale dei dati sull'inquinamento atmosferico nel 1981 per determinati inquinanti rilevati nei paesi della Comunità europea.

Essa si basa sulle precedenti raccomandazioni che figurano nella prima relazione riguardante lo Studio comparativo sull'analisi dei dati (rif. APRECO BM (83) 254(711) del luglio 1984).

La relazione si divide in due parti. La prima parte contiene una presentazione generale delle stazioni che hanno effettuato le misurazioni. La seconda parte, relativa alla valutazione dei parametri statistici che caratterizzano le serie si divide a sua volta in :

- statistiche descrittive
- analisi delle serie cronologiche.

Scopo principale di questa relazione sullo scambio di informazioni è presentare un documento di lavoro conciso e di facile consultazione.

SAMENVATTING

Dit rapport bevat van de gegevens van 1981 een evaluatie voor specifieke luchtverontreinigers in de Landen van de Europese Gemeenschappen.

Het is gebaseerd op aanbevelingen die zijn opgenomen in het eerste rapport "Comparative Study on Data Analysis" (ref. APRECO BM (83) 254(711) van juli 1984).

Het rapport bestaat uit twee delen. In het eerste deel wordt een algemeen beeld gegeven van de stations die metingen hebben voorgelegd. Het tweede deel, dat verband houdt met de evaluatie van de statistische parameters die kenmerkend zijn voor de reeksen, is op zijn beurt verdeeld in :

- beschrijvende statistieken
- tijdreeksanalyse.

Met dit rapport over de uitwisseling van informatie werd er hoofdzakelijk naar gestreefd een bondig en makkelijk te gebruiken referentiedocument beschikbaar te stellen.

INTRODUCTION

The implementation of the Directives 75/441/EEC and 82/459/EEC on a common procedure for the exchange of information between the monitoring networks based on data relating to atmospheric pollution caused by certain sulphur compounds and suspended particulates leads to the collection of a considerable amount of data by the Member States and eventually by the European Commission.

To make these data available to the experts and to draw constructive conclusions on the content of the exchange of information on atmospheric pollution, annual reports summarizing the results of this exchange must be drafted.

It is important to consider the series of measurement received from the field stations in two perspectives, first on a global base to enlighten the yearly european situation and hence to obtain an overall synopsis which may for instance fit into a WHO prevision and/or OECD forecasting programme.

Secondly on individual base, to obtain records of each station and their characteristics, which may in turn lead to a representative selection or the establishment of standards.

Both approaches are envisaged throughout this report and are abundantly documented and charted. It should certainly help clarifying the function and the role of such a capital exchange system in the frame of the European programme for the protection of men and the environment.

Annual Report 81

I. GENERAL PRESENTATION OF THE SERIES

This chapter can be separated in three different items:

- I.1 to I.3 - an overall description of the state of the exchange of information in the European Communities
- I.4 and I.5 - some annual characteristics of the raw series
- I.6 - technical remarks concerning the data bank.

I.1 CONTENT OF THE EXCHANGE OF INFORMATION

Table I.1 gives a summary of the number of the annual series with respect to the pollutant code.

Table I.1

	Pollutant code				
	1	2	3	4	Tot
	SO ₂	Smoke	SPM	Acid	
no. of annual series	127	139	67	148	481

Figure I.1 shows that with exception of suspended particles (SPM) the amount of measures sent by the Member States for the three other pollutants are almost balanced.

Table I.2 gives a summary of the number of the annual series with respect to the town class in terms of number of inhabitants.

The breakdown by town class groups of all the annual series involved in this exchange of information is well balanced (see fig. I.2).

Annual Report 81

Table I.2

	Town class							Tot
	1	2	3	4	5	6		
no. of annual series	54	77	86	154	57	53		481

The town class number is defined by:

Town class	Number of inhabitants
1	> 2 millions
2	1 to 2 millions
3	0.5 to 1 million
4	100 to 500 thousands
5	1 to 100 thousands
6	< 1 thousand

I.2 SUMMARY OF THE MEASURED POLLUTANTS BY COUNTRY AND BY TOWN CLASS

Table I.3 summarizes the number of existing annual series for each town class and for each pollutant. The results are grouped by countries.

Figure I.3 shows the breakdown of the annual series by country. In fact the amount of annual series is not proportional to the geographic area of each Member State. With the exception of Denmark which measures 3 pollutants and The Netherlands which measure 1 pollutant, the other countries measure a couple of pollutants. However, the number of annual series recorded is not always well balanced.

Annual Report 81

Table I.3

	town	pollutant				tot
	class	1	2	3	4	
		SO ₂	Smoke	SPM	Acid	
----- ----- -----						
Belgium	1	0	0	0	0	0
B	2	0	7	0	7	14
code 1	3	0	6	0	6	12
	4	0	18	0	18	36
	5	0	7	0	7	14
	6	0	0	0	0	0
	all	0	38	0	38	76

	town	pollutant				tot
	class	1	2	3	4	
		SO ₂	Smoke	SPM	Acid	
----- ----- -----						
Federal Rep	1	6	0	0	0	6
of Germany	2	10	0	5	0	15
BRD	3	13	0	9	0	22
code 2	4	23	0	21	0	44
	5	5	0	4	0	9
	6	16	0	15	0	31
	all	73	0	54	0	127

Annual Report 81

	town class	pollutant				tot
		1	2	3	4	
		SO ₂	Smoke	SPM	Acid	
Denmark	1	0	0	0	0	0
DK	2	5	5	5	0	15
code 3	3	0	0	0	0	0
	4	0	0	0	0	0
	5	0	0	0	0	0
	6	0	0	0	0	0
	all	5	5	5	0	15

	town class	pollutant				tot
		1	2	3	4	
		SO ₂	Smoke	SPM	Acid	
France	1	0	5	0	5	10
F	2	0	4	0	4	8
code 4	3	0	4	0	4	8
	4	0	6	0	18	24
	5	0	0	0	3	3
	6	0	0	0	0	0
	all	0	19	0	34	53

	town class	pollutant				tot
		1	2	3	4	
		SO ₂	Smoke	SPM	Acid	
Ireland	1	0	0	0	0	0
IRL	2	0	0	0	0	0
code 5	3	0	5	0	5	10
	4	0	0	0	0	0
	5	0	1	0	1	2
	6	0	0	0	0	0
	all	0	6	0	6	12

Annual Report 81

	town class	pollutant				tot
		1	2	3	4	
		SO ₂	Smoke	SPM	Acid	
Italy	1	6	0	0	0	6
I	2	3	0	4	0	7
code 6	3	1	0	0	0	1
	4	4	0	3	0	7
	5	2	0	1	0	3
	6	0	0	0	0	0
	all	16	0	8	0	24

	town class	pollutant				tot
		1	2	3	4	
		SO ₂	Smoke	SPM	Acid	
Luxembourg	1	0	0	0	0	
GDL	2	0	0	0	0	0
code 7	3	0	0	0	0	0
	4	0	0	0	0	0
	5	0	4	0	4	8
	6	0	0	0	0	0
	all	0	4	0	4	8

	town class	pollutant				tot
		1	2	3	4	
		SO ₂	Smoke	SPM	Acid	
The	1	0	0	0	0	0
Netherlands	2	0	0	0	0	0
NL	3	13	0	0	0	13
code 8	4	7	0	0	0	7
	5	6	0	0	0	6
	6	7	0	0	0	7
	all	33	0	0	0	33

Annual Report 81

	town	pollutant				tot
	class	1	2	3	4	
		SO ₂	Smoke	SPM	Acid	
		-----				-----
United Kingdom	1	0	16	0	16	32
UK	2	0	9	0	9	18
code 9	3	0	10	0	10	20
	4	0	18	0	18	36
	5	0	6	0	6	12
	6	0	8	0	7	15
	all	0	67	0	66	133

The breakdown by town class group of the annual series sent by each Member State is not always balanced. Only BRD, NL and UK for instance are reporting background stations series (town class 6).

Annual Report 81

I.3 BREAKDOWN OF THE ANNUAL SERIES BY THE MEASUREMENT TECHNIQUE CODES

The measurement technique codes reported by each Member State for the year 1981 are compared in the following tables in terms of annual series.

No. of annual series for SO₂

TM	country code									tot
	1 B	2 BRD	3 DK	4 F	5 IRL	6 I	7 GDL	8 NL	9 UK	
1	0	0	5	0	0	0	0	0	0	5
2	0	0	0	0	0	0	0	33	0	33
3	0	6	0	0	0	0	0	0	0	6
4	0	10	0	0	0	0	0	0	0	10
5	0	5	0	0	0	0	0	0	0	5
6	0	4	0	0	0	0	0	0	0	4
7	0	2	0	0	0	0	0	0	0	2
9	0	14	0	0	0	0	0	0	0	14
10	0	5	0	0	0	0	0	0	0	5
12	0	6	0	0	0	0	0	0	0	6
13	0	15	0	0	0	0	0	0	0	15
20	0	0	0	0	0	6	0	0	0	6
21	0	0	0	0	0	3	0	0	0	3
22	0	0	0	0	0	3	0	0	0	3
24	0	0	0	0	0	4	0	0	0	4
26	0	6	0	0	0	0	0	0	0	6
all	0	73	5	0	0	16	0	33	0	127

Annual Report 81

No. of annual series for Smoke

TM	country code									tot
	1 B	2 BRD	3 DK	4 F	5 IRL	6 I	7 GDL	8 NL	9 UK	
1	0	0	0	0	0	0	4	0	0	4
2	0	0	5	0	0	0	0	0	0	5
3	38	0	0	0	0	0	0	0	0	38
4	0	0	0	0	5	0	0	0	0	5
6	0	0	0	0	1	0	0	0	0	1
7	0	0	0	0	0	0	0	0	67	67
10	0	0	0	19	0	0	0	0	0	19
all	38	0	5	19	6	0	4	0	67	139

No. of annual series for SPM

TM	country code									tot
	1 B	2 BRD	3 DK	4 F	5 IRL	6 I	7 GDL	8 NL	9 UK	
1	0	0	5	0	0	0	0	0	0	5
2	0	9	0	0	0	0	0	0	0	9
3	0	3	0	0	0	0	0	0	0	3
5	0	1	0	0	0	0	0	0	0	1
6	0	9	0	0	0	0	0	0	0	9
8	0	14	0	0	0	0	0	0	0	14
15	0	0	0	0	0	8	0	0	0	8
25	0	7	0	0	0	0	0	0	0	7
26	0	11	0	0	0	0	0	0	0	11
all	0	54	5	0	0	8	0	0	0	67

Annual Report 81

No. of annual series for Acid

TM	country code									tot
	1 B	2 BRD	3 DK	4 F	5 IRL	6 I	7 GDL	8 NL	9 UK	
1	0	0	0	0	0	0	4	0	0	4
3	38	0	0	0	0	0	0	0	0	38
4	0	0	0	0	5	0	0	0	0	5
6	0	0	0	0	1	0	0	0	0	1
7	0	0	0	0	0	0	0	0	66	66
8	0	0	0	22	0	0	0	0	0	22
11	0	0	0	12	0	0	0	0	0	12
all	38	0	0	34	6	0	4	0	66	148

For most countries, the measurement codes are well harmonized. For example, in UK: the 66 series concerning Acid are reported with the same code. However, in the case of BRD, for pollutant SPM, several measurement codes are reported.

The content of the exchange of information summarized in this chapter corresponds well to the Decision of the Council 75/441/EEC. However, one must point out that the whole set of values involved in this exchange does not necessarily reflect the real situation of the atmospheric pollution in the European Communities. This is appearing in the different acquisition policies adopted by each Member State.

Annual Report 81**I.4 THE MONTHLY MEDIAN**

Before any treatment is made on the data received from the Member States, a reduction operation is necessary to obtain a useful and interpretable parameter.

One such reduction parameter is the monthly median, which gives the middle value of the ranked daily data. The tables of Annex 1 contain the list of the monthly median for each station. Such a summary of data can be helpful to the reader.

The results are computed on the basis of the received (unselected) values.

The representativity of the median values is bound to the number of daily measured values.

This Annex shows that a large number of annual series are not complete.

I.5 CHARACTERISTICS OF THE ANNUAL SERIES

Annex 2 summarizes the characteristic occurrences shown by the series. Some parameters presented in this Annex are chosen in order to point out peculiar values and others to disclose discontinuous series. It also emphasizes the resolution of the measurement.

Comments on the column headings:

I.5.1 There are several labels used in the records of the data bank to codify days without measured values:

- "BLANK" a five letter code used for a day with no measured values.
- "REP" a three letter code used to indicate a single measurement over several days.

Annual Report 81

- (Space) a five space field is put in the records to symbolize a non existing day in the year (e.g 31st September). Normally each station should report 7 fields "space" for the year 1981.

As shown in Annex 2, these codification agreements are not always respected (e.g: number of field "space" higher than 7).

Rem: only the United Kingdom uses the "REP" label.

I.5.2 Several limit values are pointed out in this Annex as: null values (zero); values higher than 2000 $\mu\text{g}/\text{m}^3$; the minimum value and the occurrence of the minimum.

- From an analytical point of view, null values have no meaning and one should preferably speak about "below the detection limit". To estimate the detection limit value of each station, the minimum value and its occurrence are reported.
- 2000 $\mu\text{g}/\text{m}^3$ was chosen as an upper limit above which values become unlikely and hence require confirmation from the appropriate Member State.

I.5.3 The practical accuracy of a series is characterized by the number of discontinuities in a fixed range of the frequency distribution (gap) and by the number of missing digits (dig) (see explanation page A2.1 and A2.2).

For example: 22 stations seem to report specific SO_2 to the nearest 10 $\mu\text{g}/\text{m}^3$ than to the nearest $\mu\text{g}/\text{m}^3$ (9 digits are missing in the units).

I.5.4 The last column gives a status code for each series. This code number is used to classify the series according to the following hierarchical condition:

Annual Report 81

hierarchical condition	status code

no. of month < 12	1
no. of "BLANK" + space > 64	2
no. of val. with concentration > 2000 $\mu\text{g}/\text{m}^3$	3
no. of measured values < 240	4
no. of REP > 104	5
else	0

This status code will be used as a reject code in the subsequent treatments.

Annual Report 81

I.6 TECHNICAL REMARKS

We received a total of 510 annual series for a period covering October 1980 to December 1981 (15 months). The following remarks can be made:

I.6.1 29 stations giving a value in 1980 do not render any data for 1981. The list of these station codes is given below:

PPCVVEESSSPL	PPCVVEESSSPL
-----	-----
032010021501	032010033404
032010021502	032010033504
043020001002	042010000104
043030000402	042010001004
044030010402	042010001104
044030010602	043020001004
045010002402	043030000404
032010021503	044030010004
064040000103	044030010304
064040000403	044030010404
064040000503	044030010604
032010010204	044030011304
032010021504	044030011504
032010033004	045010002404
032010033104	

Annual Report 81

I.6.2 We found four stations with non-numeric situation code and level code for the year 1980:

PPCVVEESSSPLTM

02304000030107

02409000650109

02201000080306

02699000240326

I.6.3 Between 1980 and 1981, 29 stations have changed their technical measurement code:

1980	1981	1980	1981
PPCVVEESSSPLTM	TM	PPCVVEESSSPLTM	TM
-----	-----	-----	-----
02699000020118	...13	02408000020304	...02
02699000030118	...13	02699000020311	...08
02699000040114	...13	02699000030311	...08
02699000050118	...13	02699000040309	...08
02699000060115	...13	02699000050311	...08
02699000070116	...13	02699000060310	...08
02699000080118	...13	02699000070311	...08
02699000090117	...13	02699000080311	...08
02699000100118	...13	02699000090312	...08
02699000120118	...13	02699000100311	...08
02699000130118	...13	02699000120311	...08
02699000140118	...13	02699000130311	...08
02699000150118	...13	02699000140311	...08
02201000080306	...02	02699000150311	...08
02404000010304	...02		

Annual Report 81

II. TREATMENT OF THE SELECTED SERIESII.1 INTRODUCTION

This chapter is divided into three major topics: non parametric statistics, parametric statistics, and some characteristics of the time series.

Each one of the above topic is accompanied by Annexes and figures as described further.

Table II.1 summarizes the number of series associated with one of the reject code described in Annex 2.

Table II.1

country		code						total
		0	1	2	3	4	5	
B	1	66	0	8	0	2	0	76
BRD	2	103	7	17	0	0	0	127
DK	3	11	3	0	1	0	0	15
F	4	44	8	0	1	0	0	53
IRL	5	10	2	0	0	0	0	12
I	6	3	15	6	0	0	0	24
GDL	7	0	8	0	0	0	0	8
NL	8	16	0	16	0	1	0	33
UK	9	89	7	18	0	11	8	133
total		342	50	65	2	14	8	481

The series associated with the code 1, 2, 3 and 4 are rejected in the subsequent treatments.

Annual Report 81

After the application of the selection criteria, 350 series out of 481 (73%) are thus included in the following statistical treatments.

When the results are reported with respect to the country, one can see that (see Table II.1):

- no series are retained for GDL (Luxembourg)
- only 3 series remain for I (Italy)
- half of the series of are retained for NL (The Netherlands).



Annual Report 81

II.2 NON-PARAMETRIC STATISTICS

Annex 3 gives the yearly percentiles 25, 50, 75, 95, 98 computed for the selected series and both the maximum and the minimum value recorded for each series.

This Annex should be compared with the plot of the median, the interquartile range and the 98 percentile for each series presented in the figures II.2.1 to II.2.10.

Such a presentation allows rapid comparison of the whole set of series grouped by pollutants.

Example: The medians appearing in figures II.2.2 are quite homogeneous, whereas the percentile 98 fluctuates between 30 to 140 $\mu\text{g}/\text{m}^3$. Furthermore the station 06/1/01 (Milano - Italy) shows especially high values.

It is important to underline two remarks:

II.2.1 The representativity of the parameters used is dependent of the number of measured values. The selection performed previously (see II.1) guarantees a minimum of 240 values.

II.2.2 The statistics performed in this report are only descriptive statistics, and not inferential statistics. That is, the parameters presented are reductions of the sample of the measurements sent by each Member State, and not estimators of the effective pollution level of the area covered by the station.

Apart from the general comparison plot of the percentiles, two groups of scattered diagrams are presented for each pollutant, in the figures II.2.11 to II.2.18:

- the first group concerns the correlation between central tendency parameters (median) and a marker of the higher values (percentile 98)

Annual Report 81

- the second one concerns the correlation between central tendency parameters (median) and a central dispersion tendency parameter (interquartile range).

The first group of scatter diagram can be illustrated by the following example:

Two areas are noticeable in figure II.2.12 concerning Smoke measurements. The lower values seem well correlated, whereas the higher values tend to scatter.

In the last area, the discrepancy between the various countries is evident (the country code is used as a point symbol in these diagrams).

At three of the stations in the United Kingdom (9) the mean level concentration (median) is low compared to the high level concentration (98th-percentile). This was due to the extreme meteorological conditions experienced at these stations in December 1981 when some of the coldest temperatures on record were achieved and pollution concentrations were abnormally increased for a few days thereby raising the 98-percentile but not affecting the median.

The scatter diagrams of the interquartile range versus the median are very interesting (fig. II.2.15 to II.2.18).

For example, the sharp distribution of point found in figure II.2.15 seems to point out a repetitive frequency distribution for the sample central part.

However, the point repartition found for Acid is almost randomly distributed (fig. II.2.18). This fact highlights the discrepancy between the concentration of sulphur compounds measured by specific and non-specific measurement methods.

The relation between the median associated with a town and the town class is presented in figure II.2.19. The

Annual Report 81

illustrative label used is the country code.

The relationship between the global median value computed by town class and the town class itself is variable. Nevertheless a few remarks are listed below:

- Background stations are always associated with low concentration level for each pollutant.
- Country 4-F: The global median level by town class decreases monotonously with the town class. (see Smoke and Acid).
- Country 9-UK: Stations related to town class 5 seem to report relatively high concentration values (see Acid and Smoke).
- Country 2-BRD: Stations related to town class 2 seem to report relatively low concentration values for SO₂.

Annual Report 81

II.3 PARAMETRIC STATISTICS

Annex 4 gives some descriptive statistics computed for the selected series. The mean, the standard deviation, the variation coefficient, the skewness, a shape estimator, and the kurtosis.

The histograms corresponding to each of the above parameters are presented in figures II.3.1 to II.3.6.

II.3.1 Definitions

A succinct description of the descriptive parameters computed is listed below (see definition in Comparative study on data analysis part 2: Descriptive statistics and data reduction Technical Report no 2, April 1984, APRECO).

MEAN

Label used: mean

The mean is the most common measure of central tendency for variable measured at interval-level. Often referred to as the "average", it is merely the sum of the individual values for each case divided by the number of cases.

STANDARD DEVIATION

Label used: std.d

The standard deviation is a measure of the dispersion of the data about the mean of an interval-level variable. This statistic is one way of measuring how closely the individual scores of the variable cluster around the mean. The standard deviation has the same units as the original variable.

VARIATION COEFFICIENT

Label used: V

The variation coefficient is a relative measure of the dispersion (without units).

Annual Report 81

SKEWNESS: Label used: skew
 Skewness measures deviation from symmetry. The measure of skewness will take on a value of zero when the distribution is completely symmetric. A positive value indicates that the cases are clustered more to the left of the mean with most of the extreme values to the right. A negative value indicates clustering to the right. For example, a normal distribution is completely symmetric and has a skewness value of zero. A lognormal distribution is dissymmetric with a positive value for skewness.

SHAPE ESTIMATOR: Label used: D
 The skewness and the kurtosis are usually applied to compare the relative frequency function with the theoretically normal distribution. Since other shape may also be expected, an estimator D of the frequency distribution shape is defined:

$$D = \text{skew} / (V (V^2 + 3))$$

D has the following properties:

- D = 0 normal distribution
- D = 0.364 Maxwell
- D = 0.37 Rayleigh
- D = 0.5 Chi-Square with 2 degrees of freedom
- D = 0.6 Chi-Square with 6 degrees of freedom
- D = 1 log-normal.

KURTOSIS Label used: kurt
 Kurtosis is a measure of the relative peakedness or flatness of the curve defined by the distribution. A normal distribution will have a kurtosis of zero. If the kurtosis is positive, then the distribution is more peaked than a normal distribution, while a negative value means that it is flatter.

Remark:

Relative descriptive parameters (such as V, skew, D, kurt)

Annual Report 81

can be used to compare stations or pollutants without any assumption of conversion factors.

II.3.2 Comments on the histograms: (fig. II.3.1 to II.3.6)

VARIATION COEFFICIENT (fig. II.3.3)

The maximum of the annual variation coefficient lies in a small range of value:

pollutant	range value of the max. annual V

SO ₂	0.9
Smoke	0.7 - 0.9
SPM	0.7
Acid	0.5 - 0.7

SKEWNESS (fig. II.3.4)

Almost all the annual series for each pollutant have a positive skewness. This fact indicates that the frequency distribution is disymmetric with left clustering.

Many stations are reporting an annual skewness in the range 1.6 to 2.4.

5 to 10% of stations reporting measurement for SO₂ or Smoke have an annual skewness higher than 5. This high spreading of the frequency distribution discloses for these stations the effect of high pollution events during this year.

SHAPE ESTIMATOR (fig. II.3.5)

As a general rule for all pollutants, the frequency distribution is far from a normal distribution (D=0) and not precisely a log-normal distribution (D=1).

The annual shape estimator lies in the range of 0.6 to 0.8 as a chi-square with a large degree of freedom (0.67). But further statistical analysis have to be done before a conclusion is drawn.

Annual Report 81

II.4 CHARACTERISTICS OF THE TIME SERIES

Annex 5 contains some characteristics of the time series: the ratio of the number of summer to winter measurements, the seasonal percentiles 50 and 98, the parameters of the annual regression line and the number of the 3 days persistence for a concentration value higher than $125 \mu\text{g}/\text{m}^3$. The "winter" is defined in this report as a two non contiguous periods: January to March and October to December 1981. The "summer" period is then the six complementary months (April to September).

Remark: This is an arbitrary balanced splitting of the year. In fact, seasonal periodicity can only be detected by a spectral analysis of a time serie performed over several years (e.g.: in a Summary Report).

The scatter diagrams between the median and the percentile 98 are drawn for both seasons (fig. II.4.1 to II.4.8).

Example of explanation for figures II.4.1 - II.4.8:

Irrespective of the number of measurements made, the scatter of high values happens systematically in winter for SO_2 , Smoke and Acid; in the case of SPM, the winter and summer seasons show the same pattern.

The figures II.4.9 to II.4.12 compare the percentiles of the winter and the summer period.

The regressions are given for indicative purposes. The outliers labelled with an arrow are not included in the calculation of the regression line.

For SO_2 and Smoke, the discrepancy between winter and summer seems to be systematic. The parameters used are higher in winter than in summer.

Annual Report 81

For SPM and Acid, the relationship is not evident because of the important scattering of the points. However, in the case of SPM, the median and the percentile 98 seem to be higher in summer than in winter (this should be verified for other years).

Annex 6 gives the status of the isolated extremum of the monthly median values.

To find out a relative dispersion of the monthly median values around a central tendency,

Z is defined as the normalized monthly median :

$$Z = \frac{|X - \text{MEAN}|}{\text{STD.D}}$$

where the MEAN statistics is the mean of the monthly median distribution excluding the minimum and maximum, and the STD.D statistics is the standard deviation of this distribution. Each normalized monthly median value has been ranked from -5 to 5 according to the following intervals:

- | | | |
|---|--------------------------|--------------------|
| 1 | if Z > 2.33 and Z < 2.88 | standard deviation |
| 2 | if Z > 2.88 and Z < 3.09 | standard deviation |
| 3 | if Z > 3.09 and Z < 3.71 | standard deviation |
| 4 | if Z > 3.71 and Z < 3.99 | standard deviation |
| 5 | if Z > 3.99 | |

The minus sign is given when the calculated monthly value is lower than the MEAN, the sign + when the value is higher. The variation range of the scale is thus extending from - 5 (minimum value at more than 3.99 standard deviation from the MEAN) to + 5 (maximum value at more than 3.99 standard deviation from the MEAN).

Annual Report 81

Tables of Annex 6 point out monthly values at least at 2.33 standard deviation from the MEAN tendency. The amount of boxes left empty represent thus the monthly medians with values lower than 2.33.

For all pollutants there are more exceptional higher than lower months; this is confirmed by the distribution of the skewness described in chapter II.3.

For SO₂ and Smoke, exceptional high pollution events are more frequently observed in December, January and February. In the case of SPM, the high pollution events are distinctive only in February.

Annual Report 81

TABLE OF FIGURESUnselected series

General presentation of the series I.1 to I.3

Selected seriesNon-parametric statistics

Global representation of the percentiles 25,50,75,98 (see corresponding Annex 3) II.2.1 to II.2.10

Correlation diagrams between the median on the percentile 98, and the interquartile range II.2.11 to II.2.18

Global median value by town classes II.2.19

Annual parameters

Histograms of the descriptive parameters listed in Annex 4 II.3.1 to II.3.6

Characteristics of the time series

Correlation diagrams between the seasonal median and the percentile 98 II.4.1 to II.4.8

Correlation diagrams II.4.9 to II.4.12
 - between the winter and summer median
 - between the winter and summer percentile 98

PROPORTION OF MEASURED VALUES FOR EACH POLLUTANT

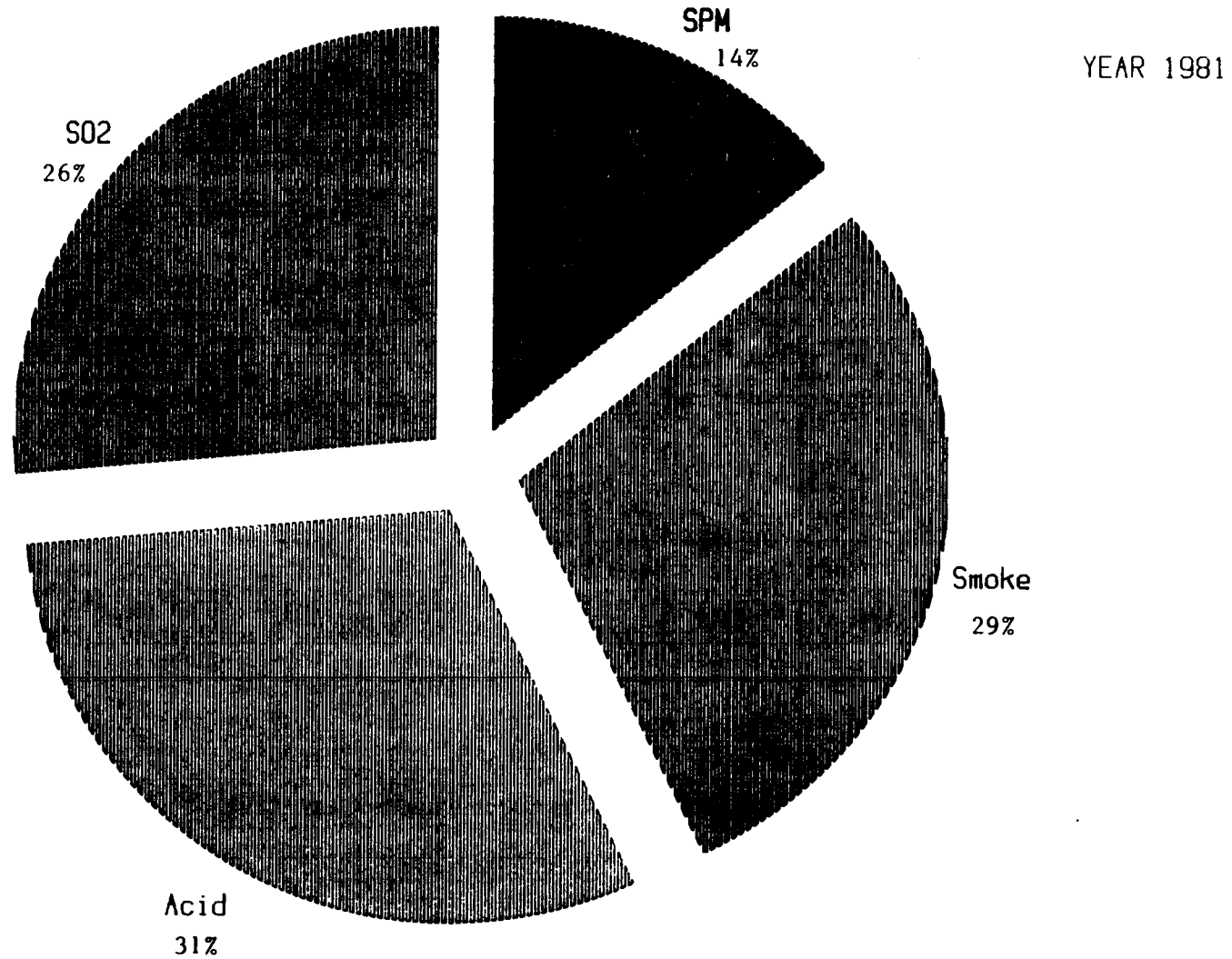


fig. I.1

PROPORTION OF MEASURED VALUES FOR EACH TOWN CLASS

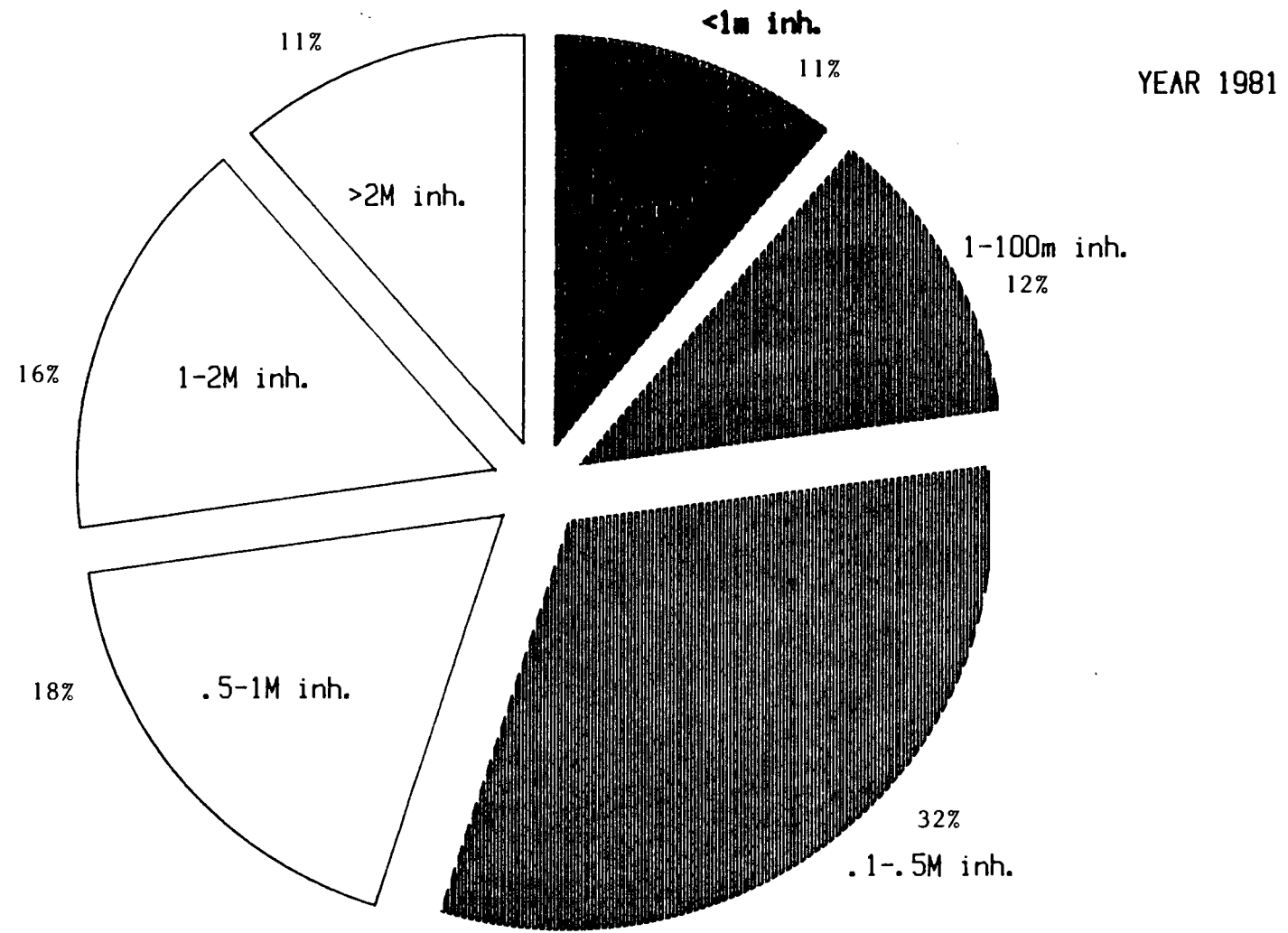


fig. I.2

PROPORTION OF MEASURED VALUES FOR EACH MEMBER STATE

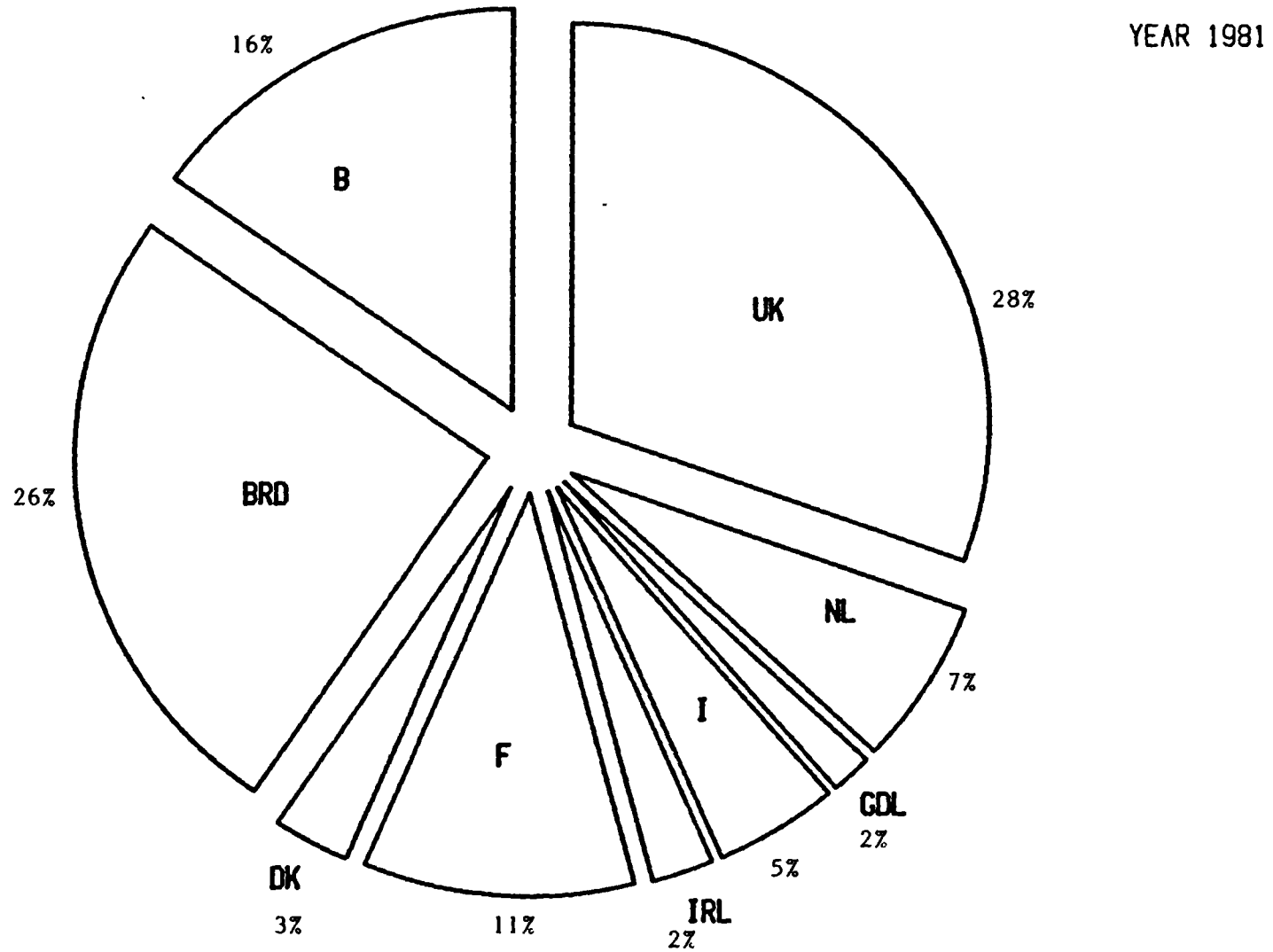
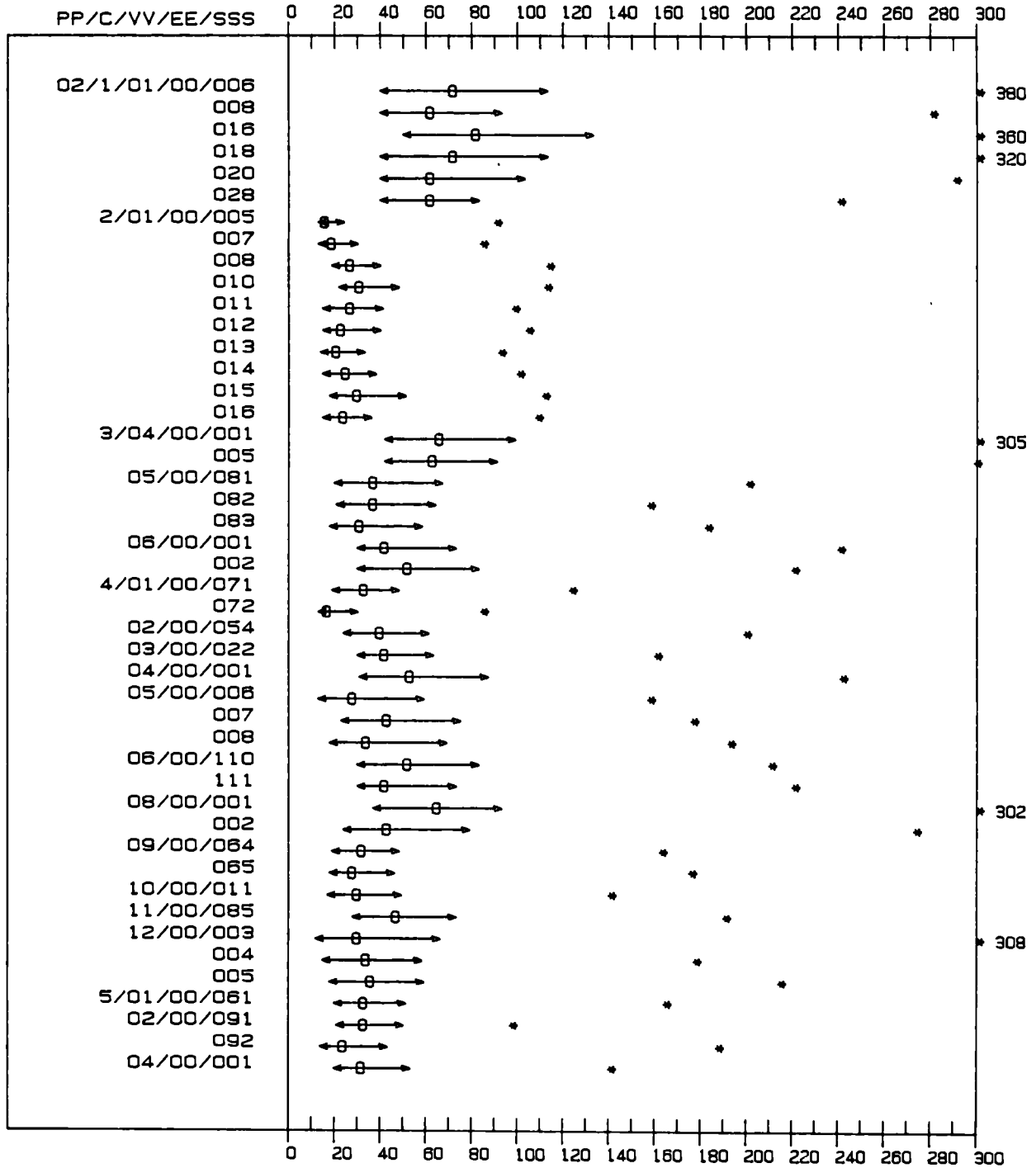


fig. I.3

Global representation of the percentiles 25 50 75 98 %

Pollutant : SO2
 Year : 1981
 Units : microgr/m3

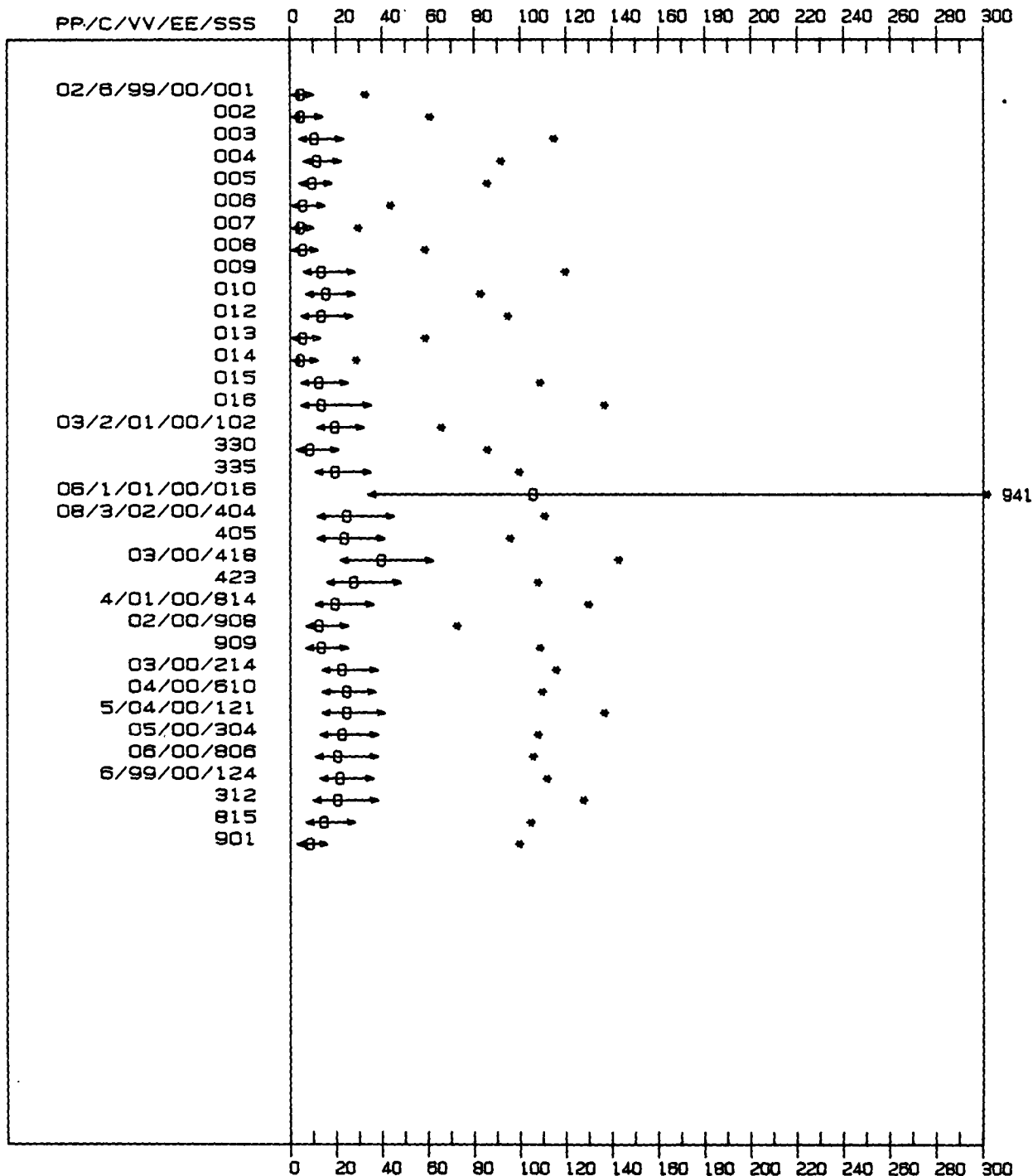


Caption : < 25 th percentile.
 0 50 th percentile.
 > 75 th percentile.
 * 98 th percentile.

fig. II.2.1

Global representation of the percentiles 25 50 75 98 %

Pollutant : SO2
 Year : 1981
 Units : microgr/m3

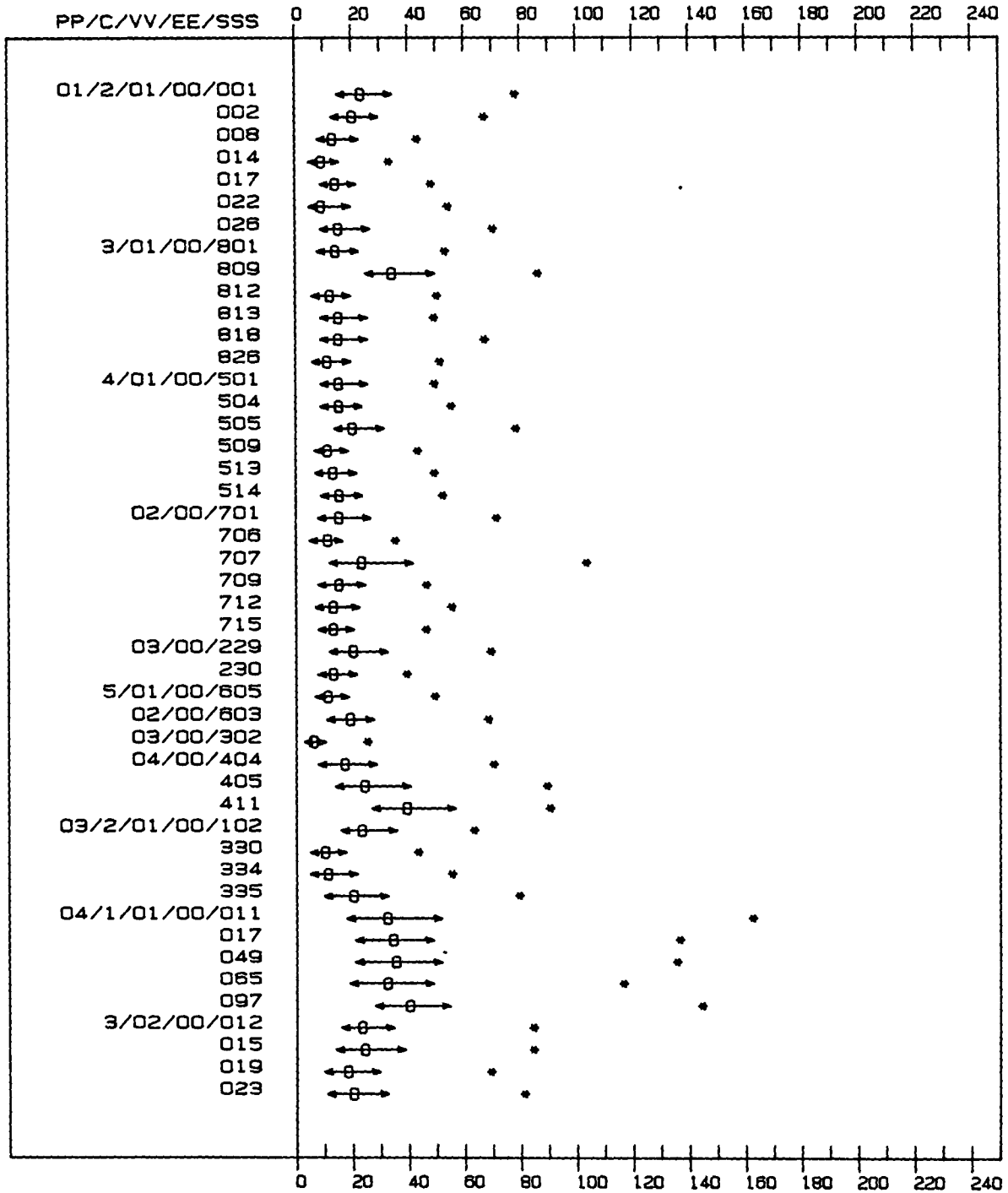


Caption : < 25 th percentile.
 0 50 th percentile.
 > 75 th percentile.
 * 98 th percentile.

fig. II.2.2

Global representation of the percentiles 25 50 75 98 %

Pollutant : Smoke
 Year : 1981
 Units : microgr/m3

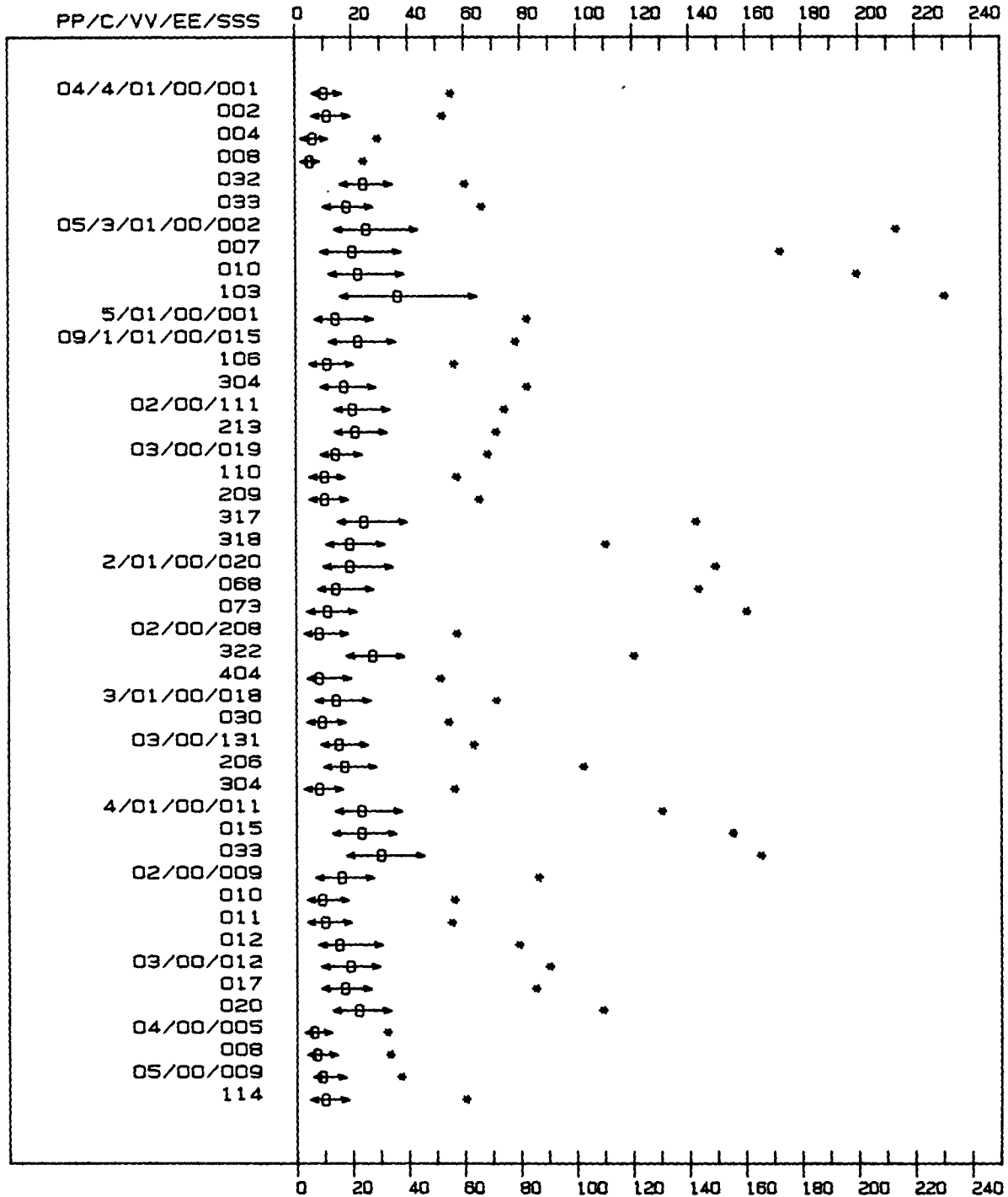


Caption : < 25 th percentile.
 0 50 th percentile.
 > 75 th percentile.
 * 98 th percentile.

fig. II.2.3

Global representation of the percentiles 25 50 75 98 %

Pollutant : Smoke
 Year : 1981
 Units : microgr/m3

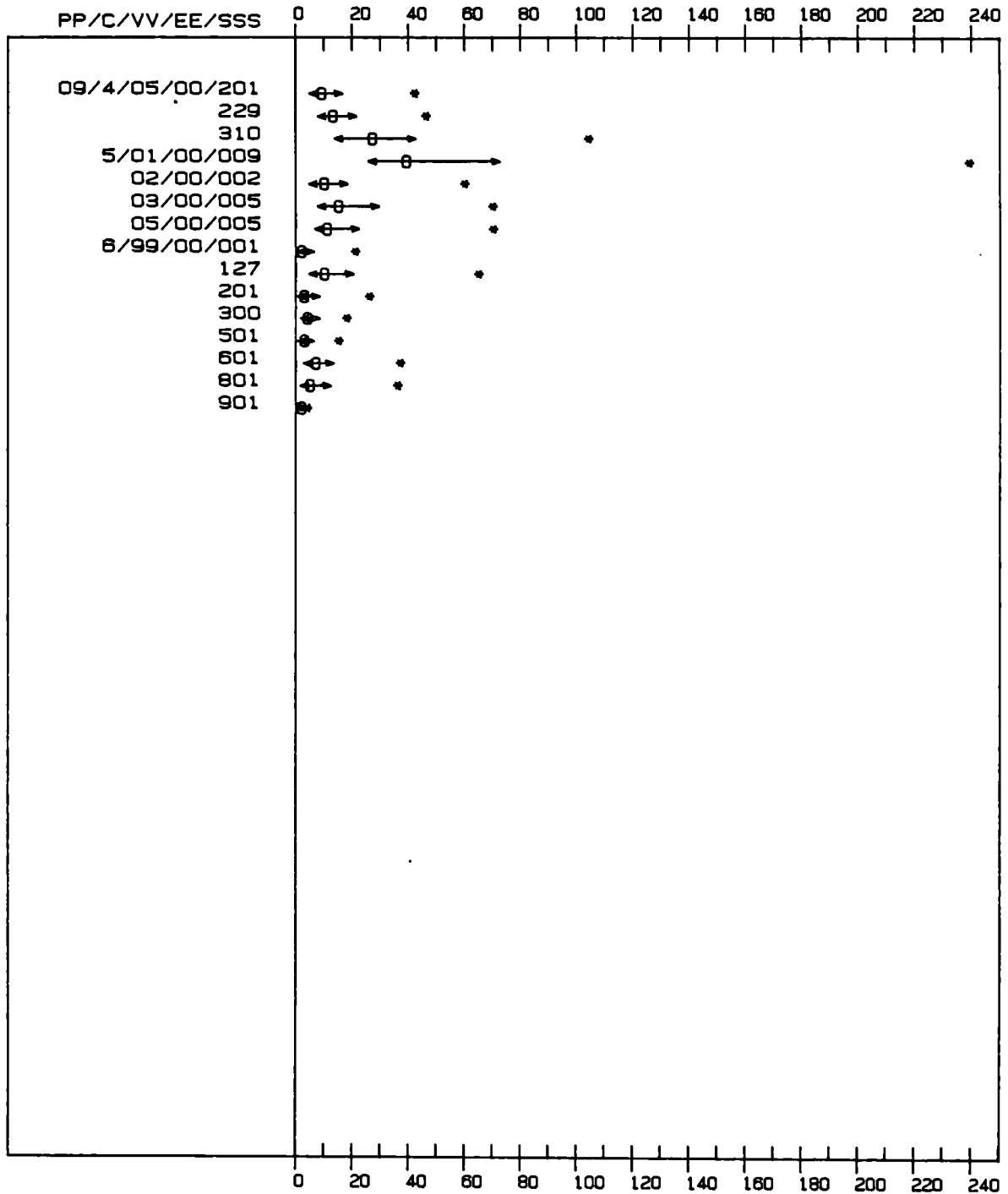


Caption : < 25 th percentile.
 0. 50 th percentile.
 > 75 th percentile.
 * 98 th percentile.

fig. II.2.4

Global representation of the percentiles 25 50 75 98 %

Pollutant : Smoke
 Year : 1981
 Units : microgr/m3

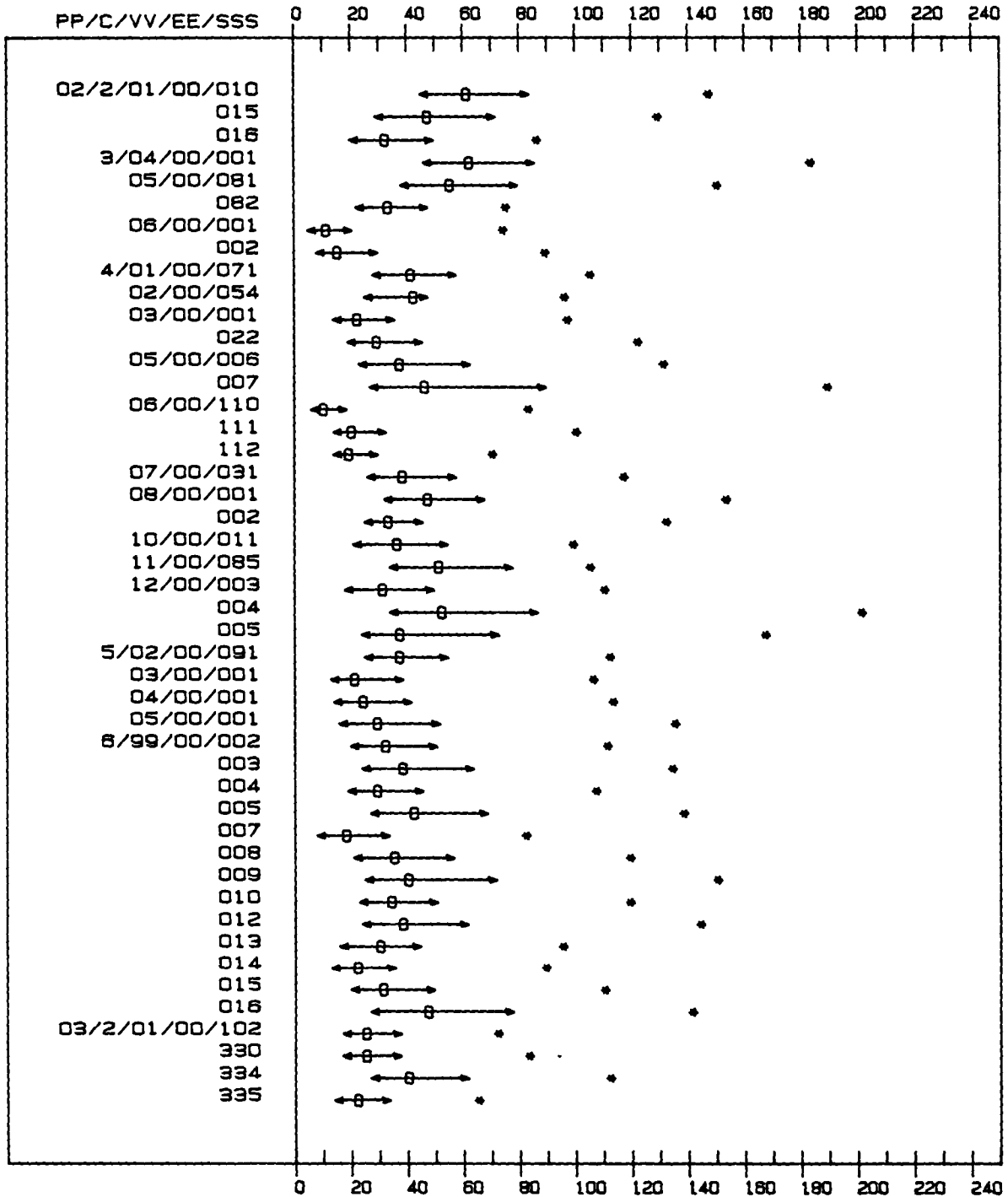


Caption : < 25 th percentile.
 0 50 th percentile.
 > 75 th percentile.
 * 98 th percentile.

fig. II.2.5

Global representation of the percentiles 25 50 75 98 %

Pollutant : SPM
 Year : 1981
 Units : microgr/m3

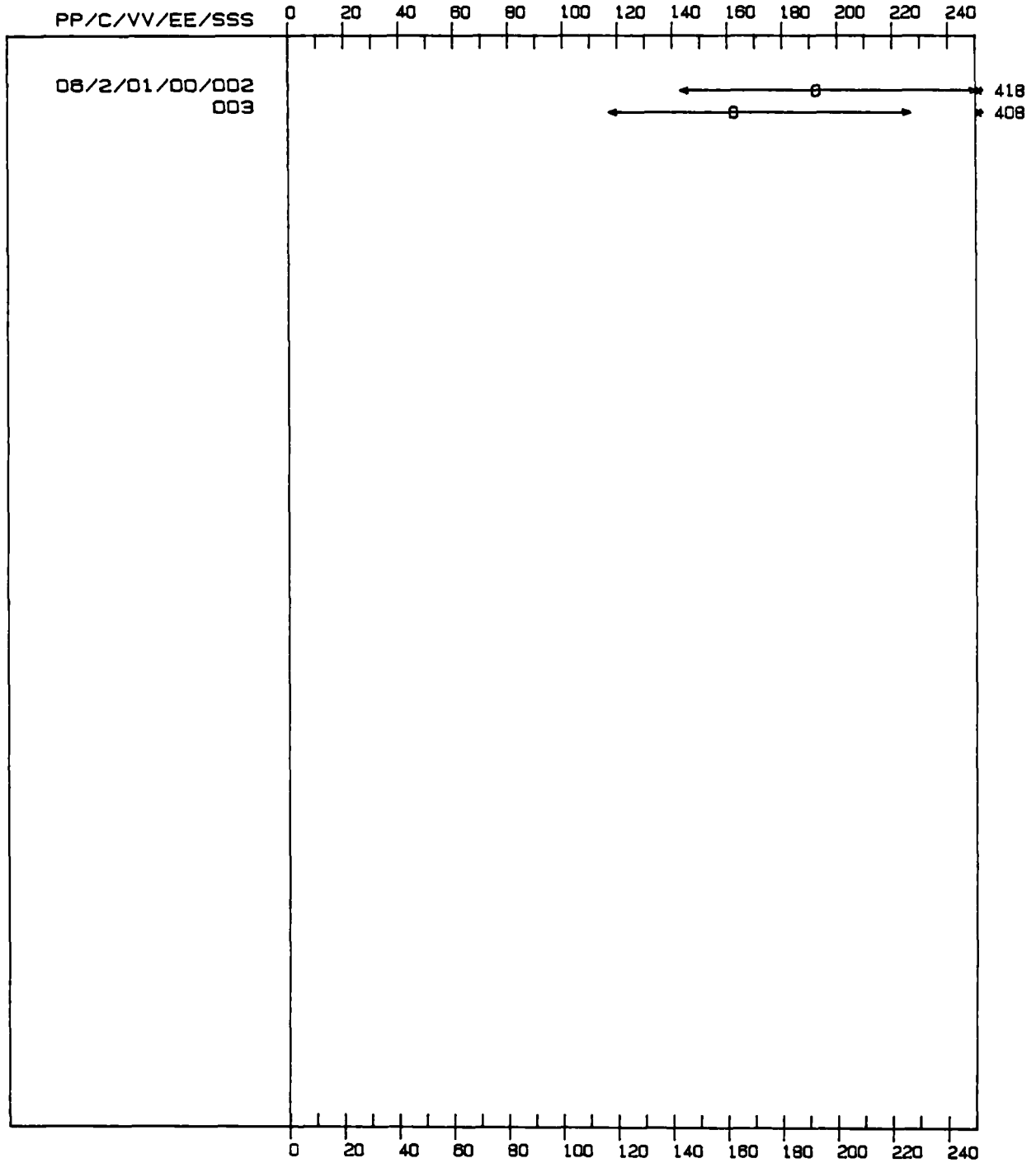


Caption : < 25 th percentile.
 0 50 th percentile.
 > 75 th percentile.
 * 98 th percentile.

fig. II.2.6

Global representation of the percentiles 25 50 75 98 %

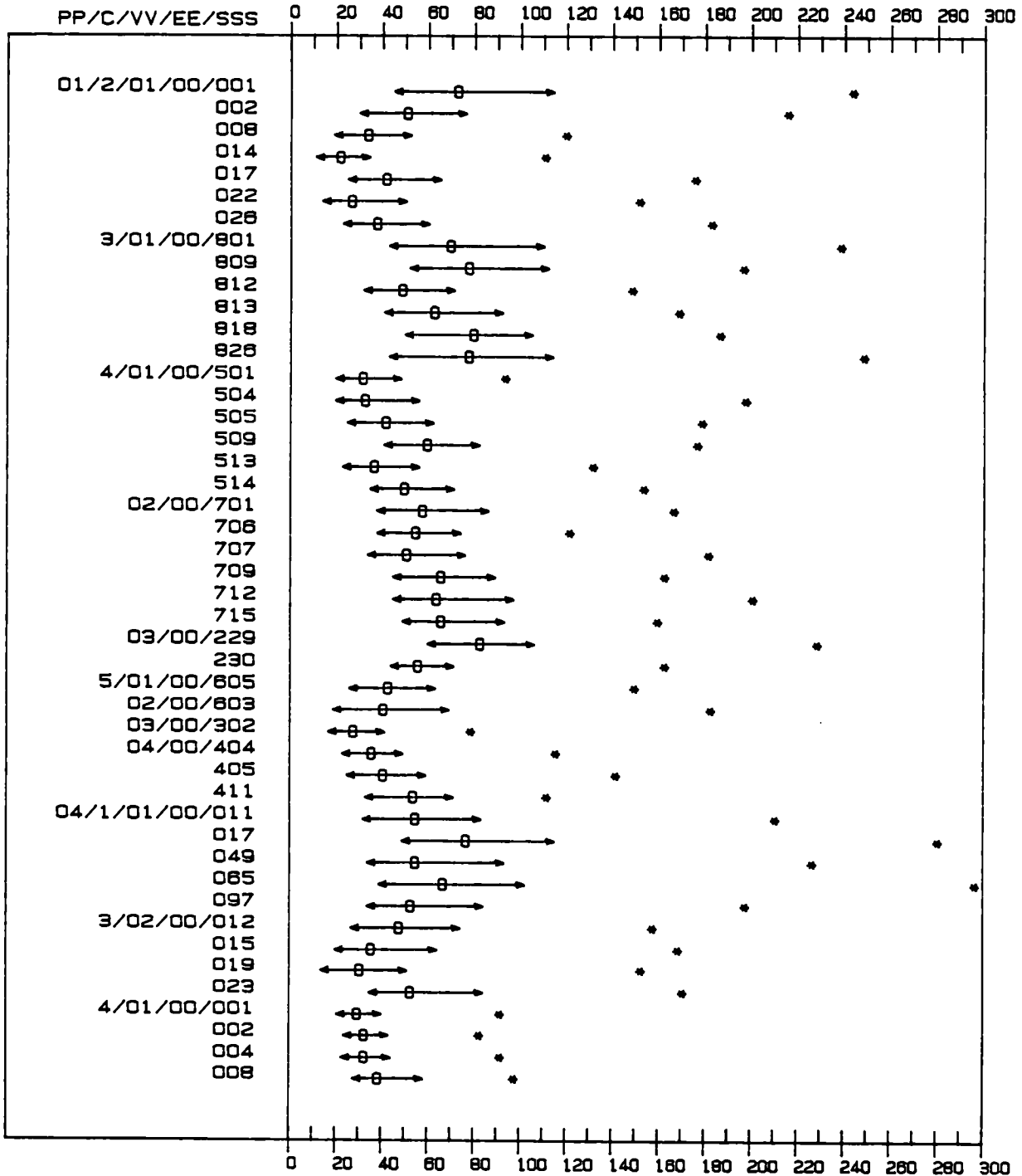
Pollutant : SPM
Year : 1981
Units : microgr/m3



Caption : < 25 th percentile.
0 50 th percentile.
> 75 th percentile.
* 98 th percentile.

Global representation of the percentiles 25 50 75 98 %

Pollutant : Acid
 Year : 1981
 Units : microgr/m3

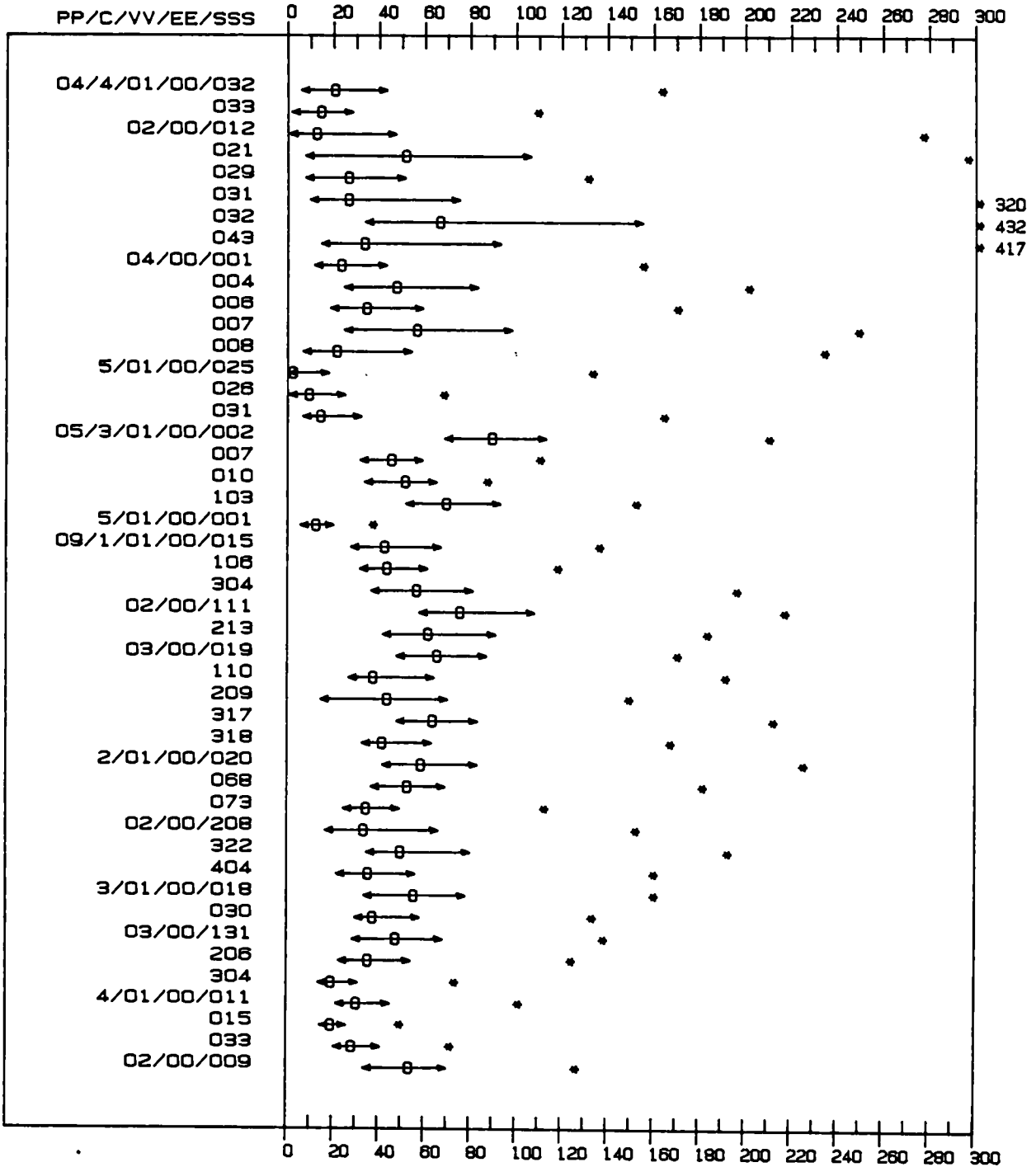


Caption : < 25 th percentile.
 0 50 th percentile.
 > 75 th percentile.
 * 98 th percentile.

fig. II.2.8

Global representation of the percentiles 25 50 75 98 %

Pollutant : Acid
 Year : 1981
 Units : microgr/m3

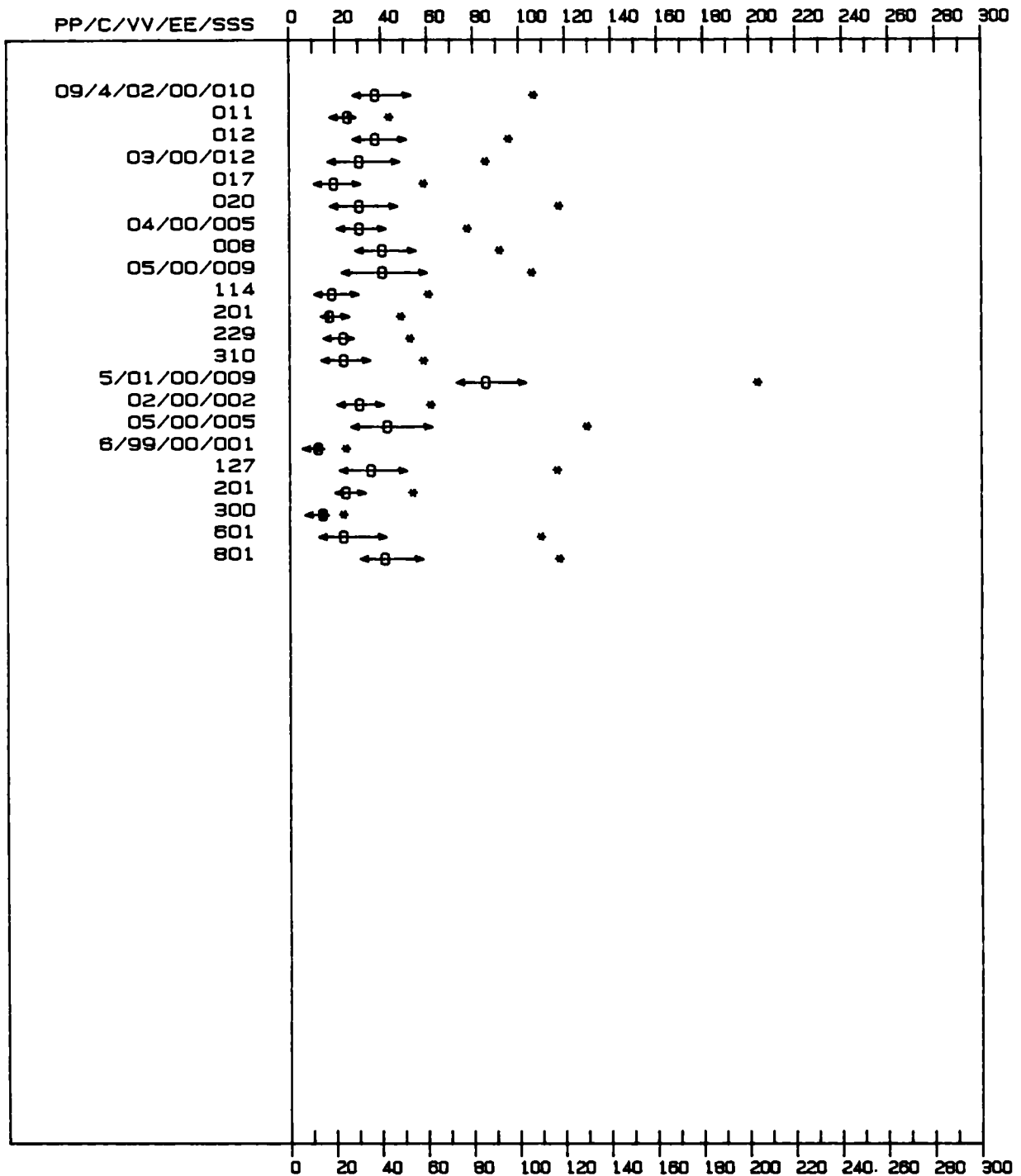


Caption : < 25 th percentile.
 0 50 th percentile.
 > 75 th percentile.
 * 98 th percentile.

fig. II.2.9

Global representation of the percentiles 25 50 75 98 %

Pollutant : Acid
 Year : 1981
 Units : microgr/m3



Caption : < 25 th percentile.
 0 50 th percentile.
 > 75 th percentile.
 * 98 th percentile.

Plot of the percentiles 50 and 98 labelled with the country code.
 Pollutant 1 (SO2) 1981.

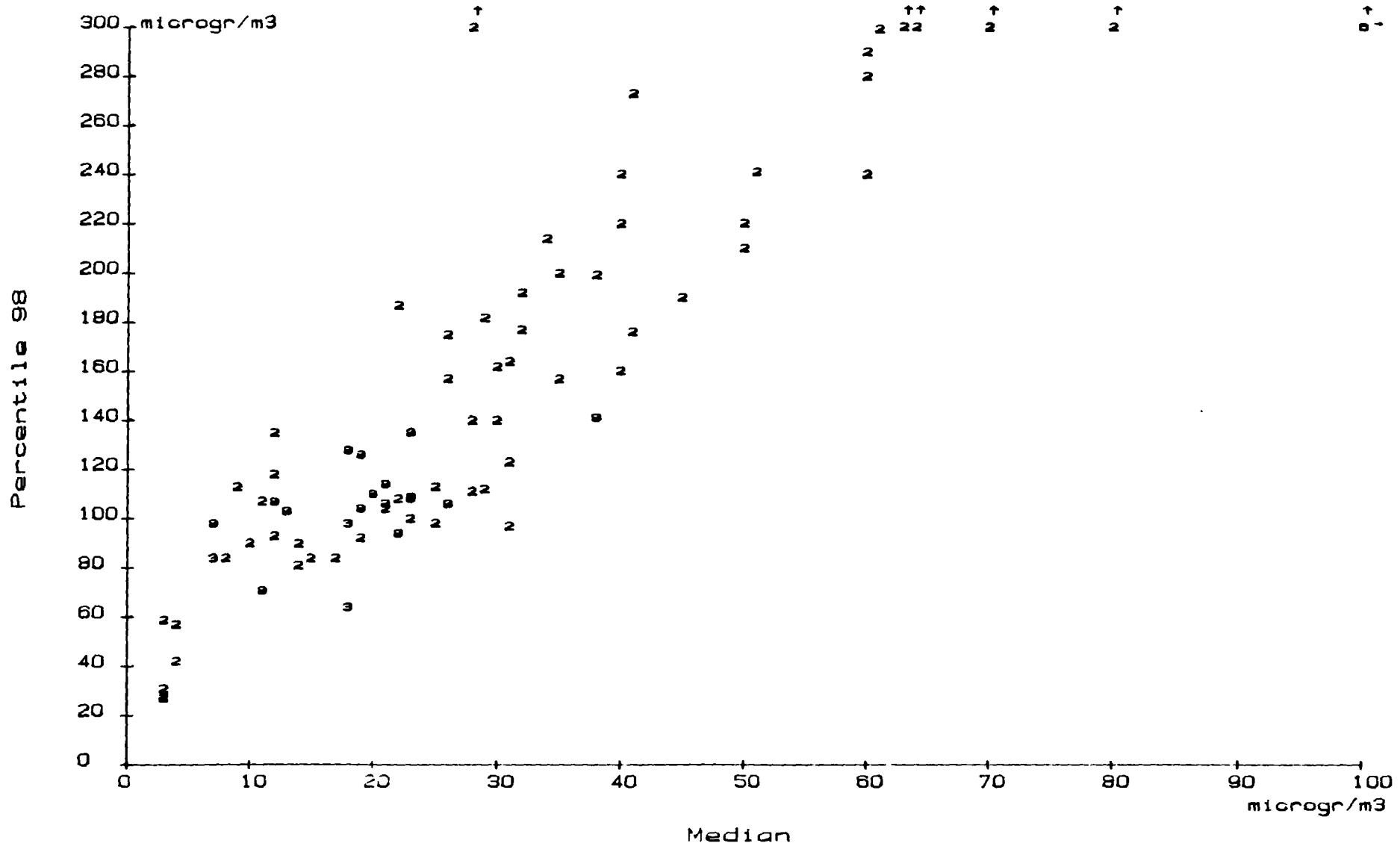


fig. 11.2.11.

Plot of the percentiles 50 and 98 labelled with
the country code.
Pollutant 2 (Smoke) 1981.

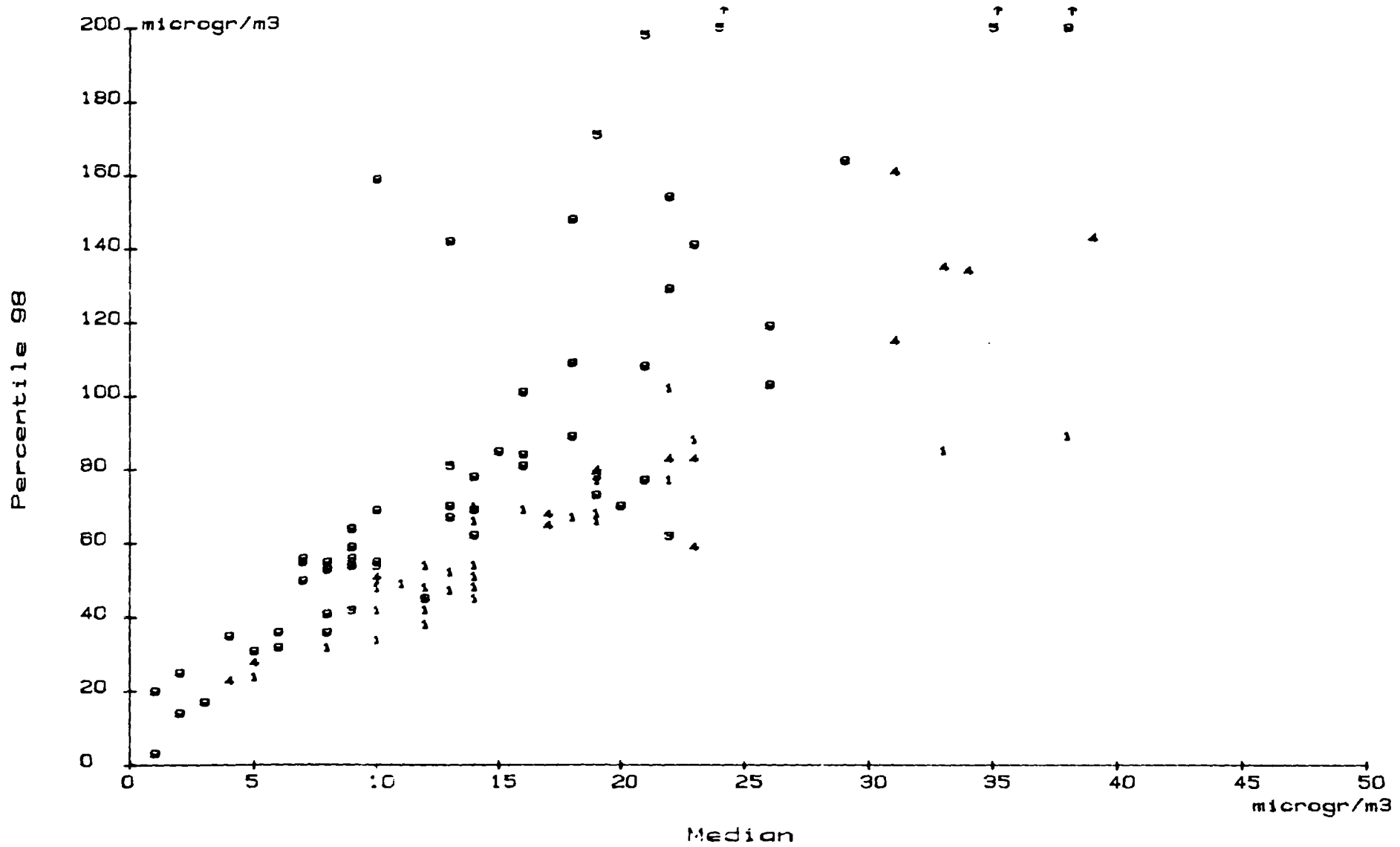


fig. 11.2.12.

Plot of the percentiles 50 and 98 labelled with
the country code.
Pollutant 3 (Spm) 1981.

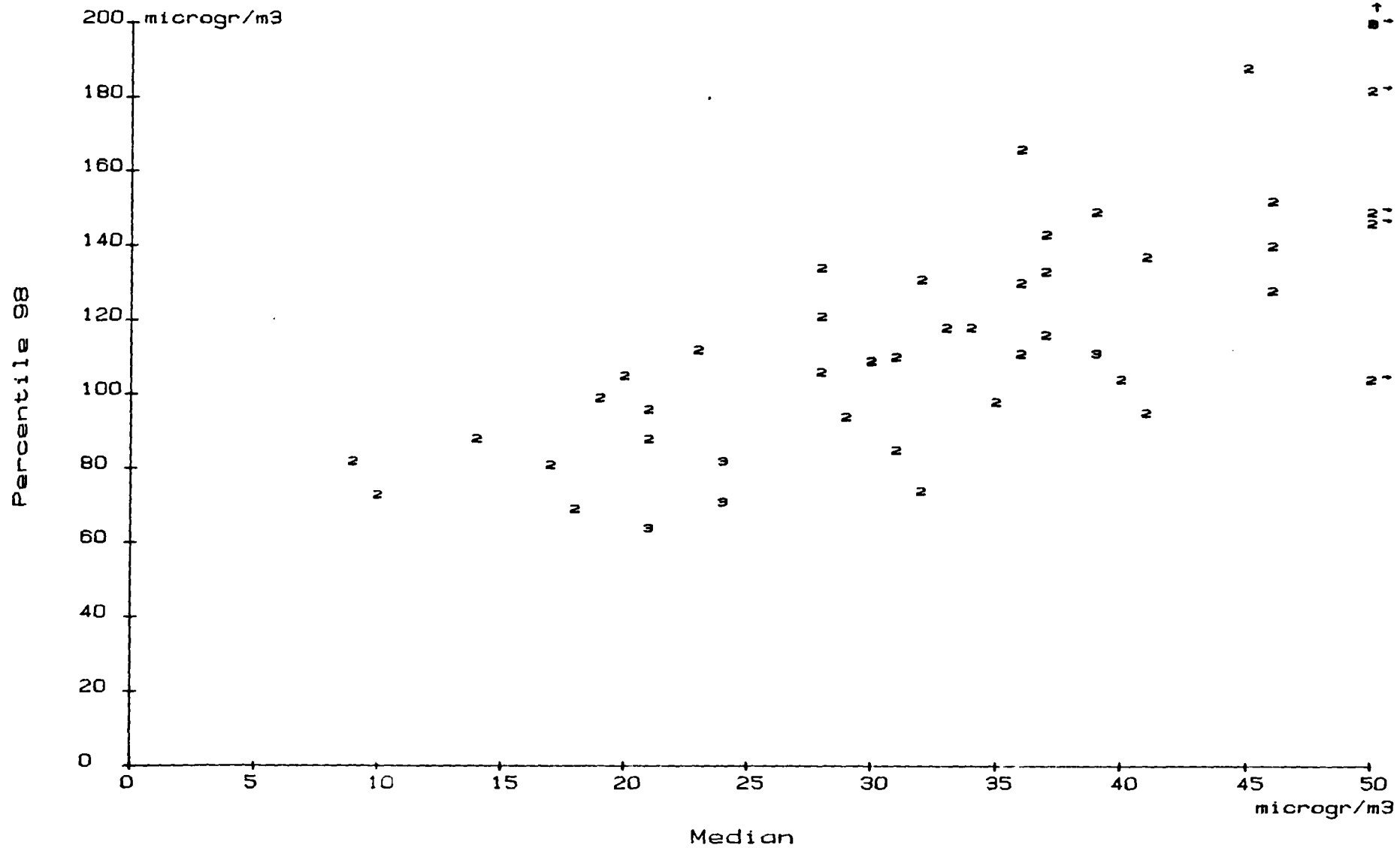


fig. 11.2.13.

Plot of the percentiles 50 and 98 labelled with
the country code.
Pollutant 4 (Acid) 1981.

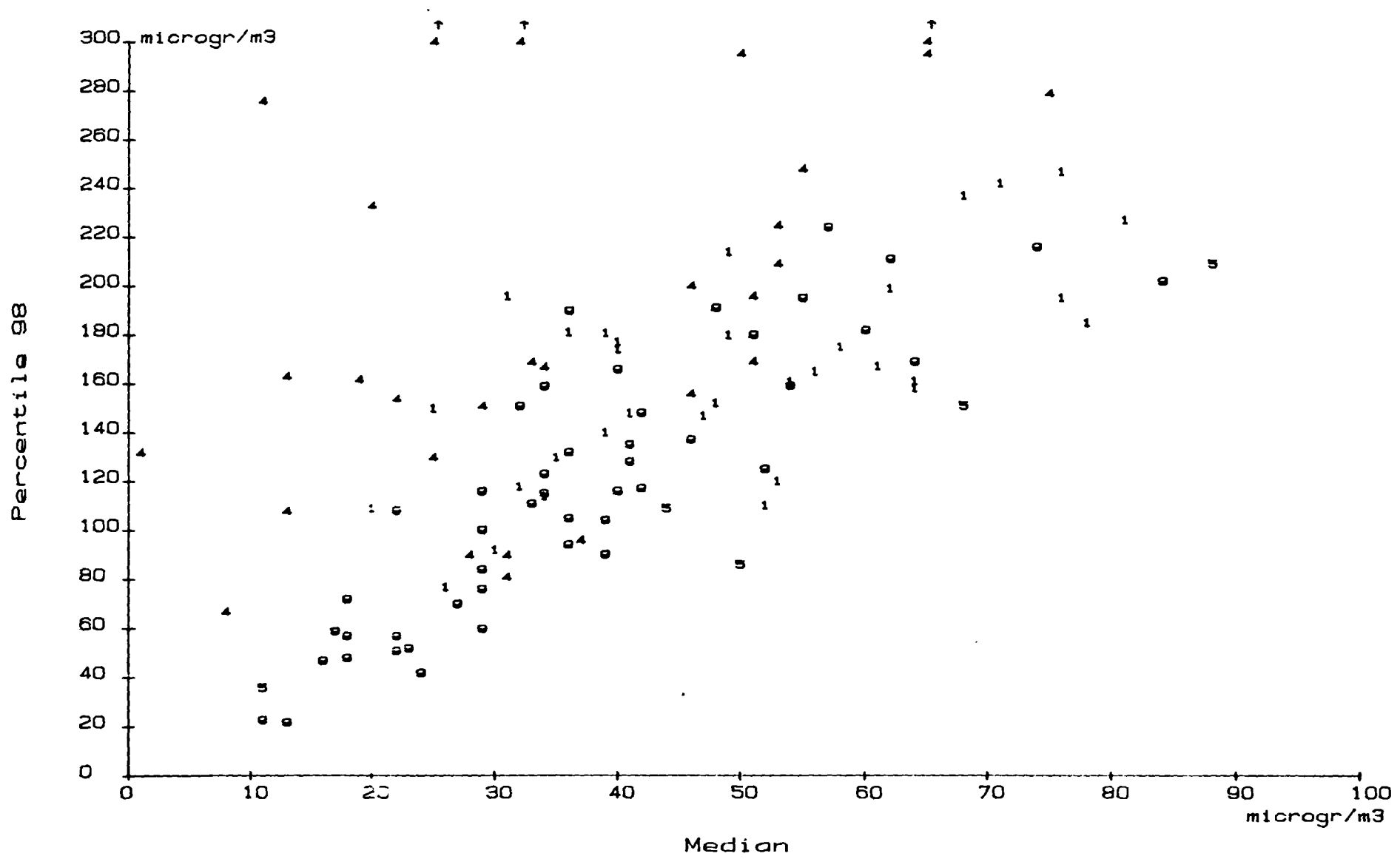


fig. II.2.14.

Plot of the median and interquartile range labelled with the country code.
Pollutant 1 (SO₂) 1981.

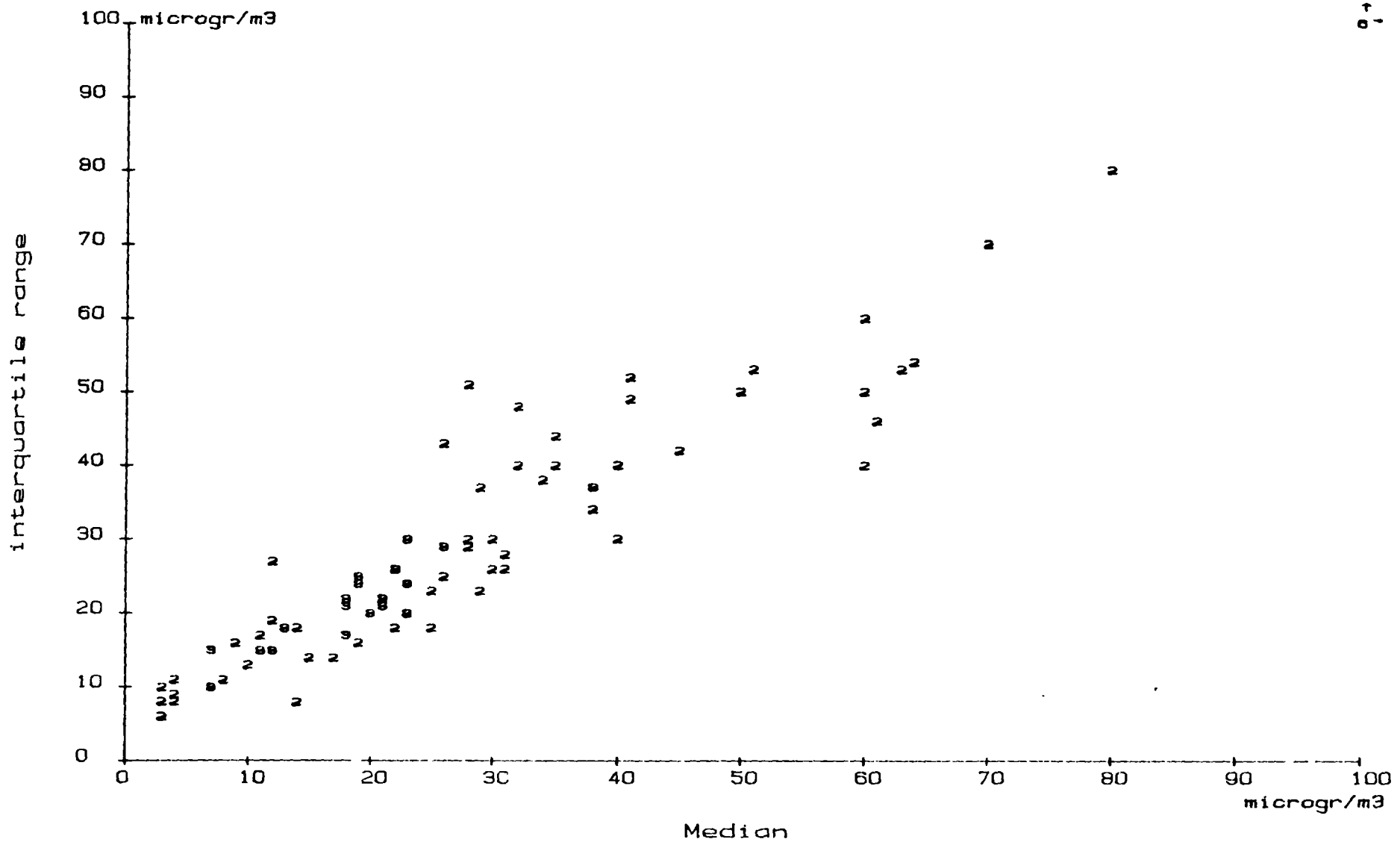


fig. II.2.15.

Plot of the median and interquartile range labelled with the country code.
 Pollutant 2 (Smoke) 1981.

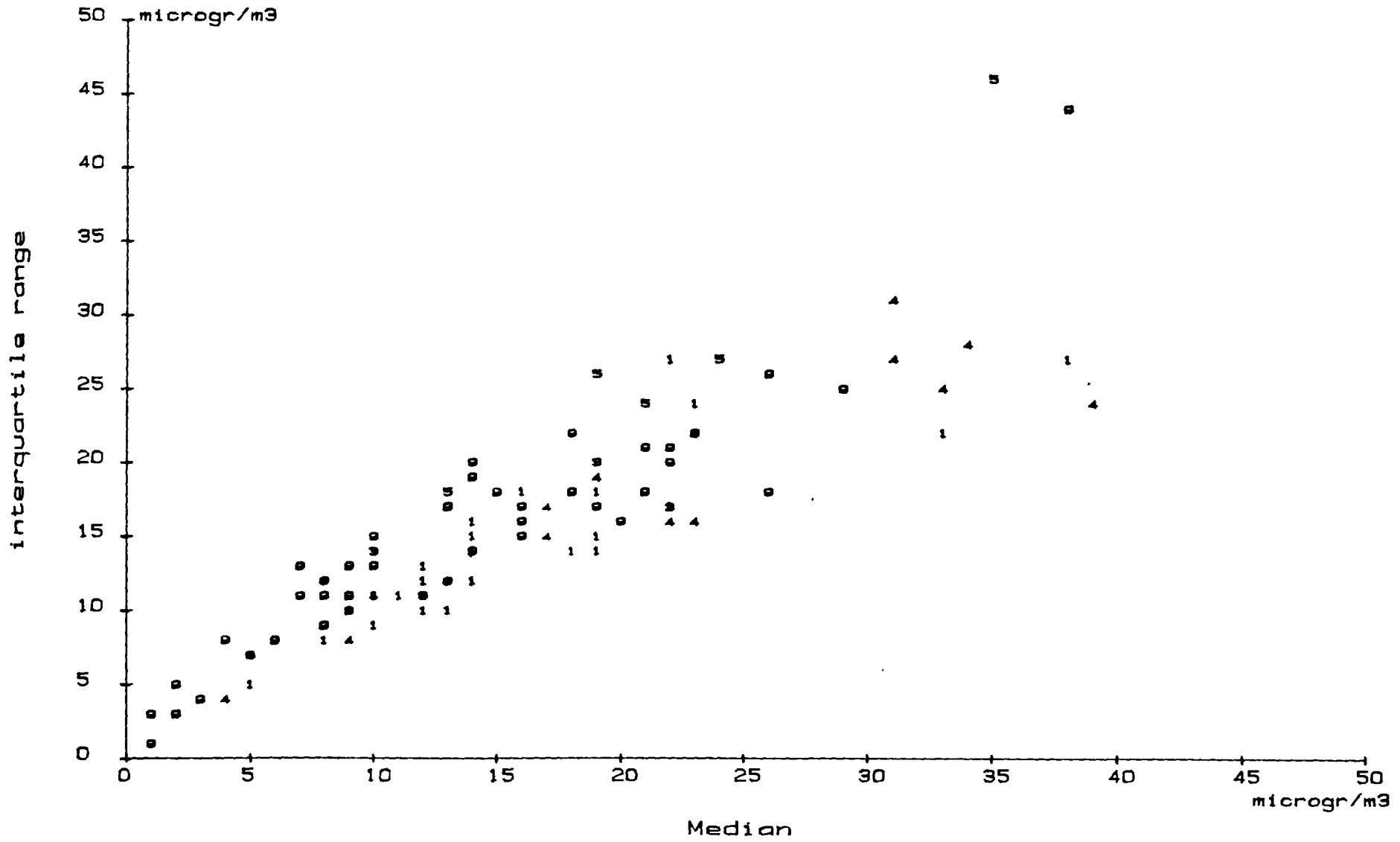


fig. II.2.16.

Plot of the median and interquartile range labelled with the country code.
 Pollutant 3 (Spm) 1981.

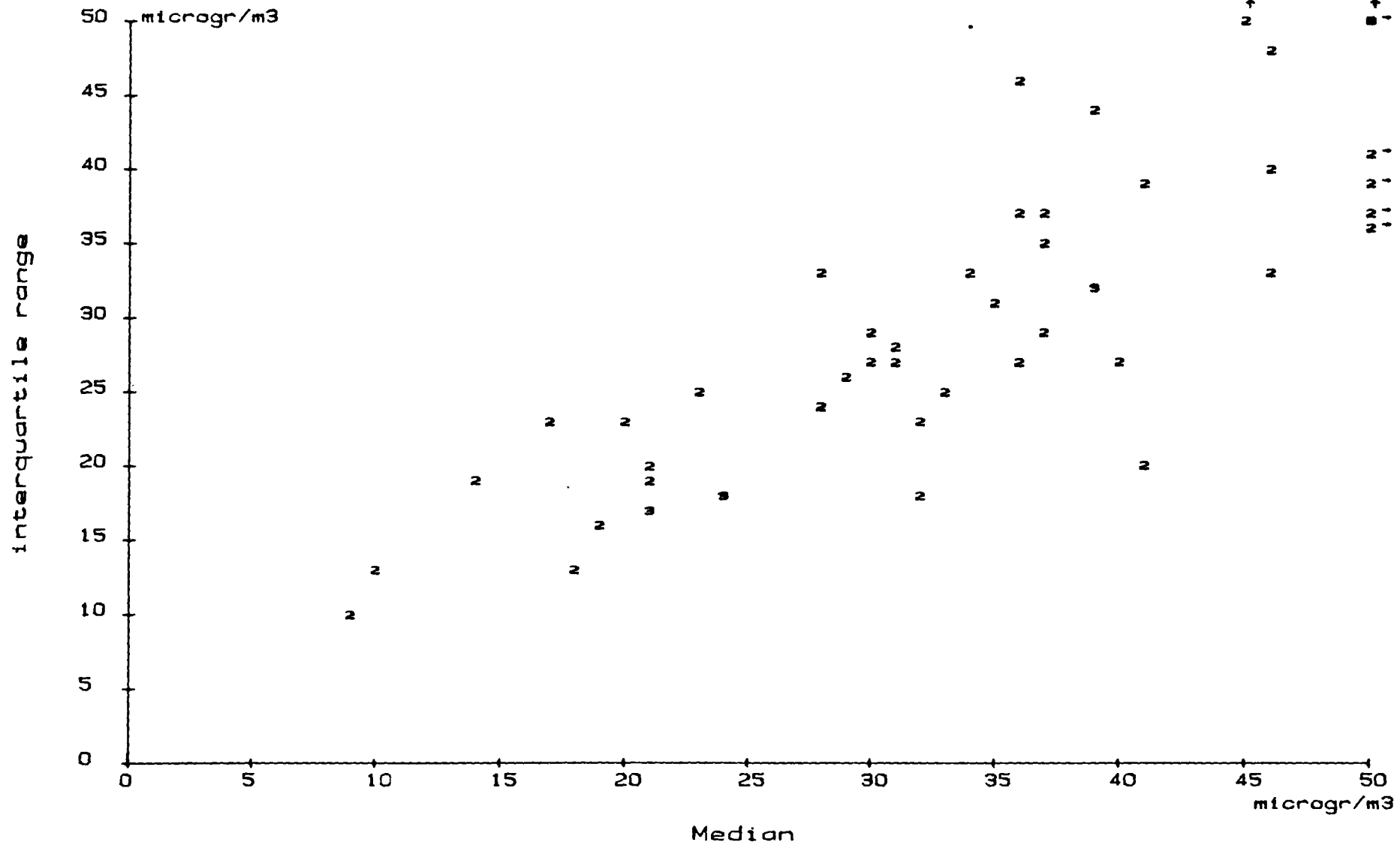


fig. II.2.17.

Plot of the median and interquartile range labelled with the country code.
Pollutant 4 (Acid) 1981.

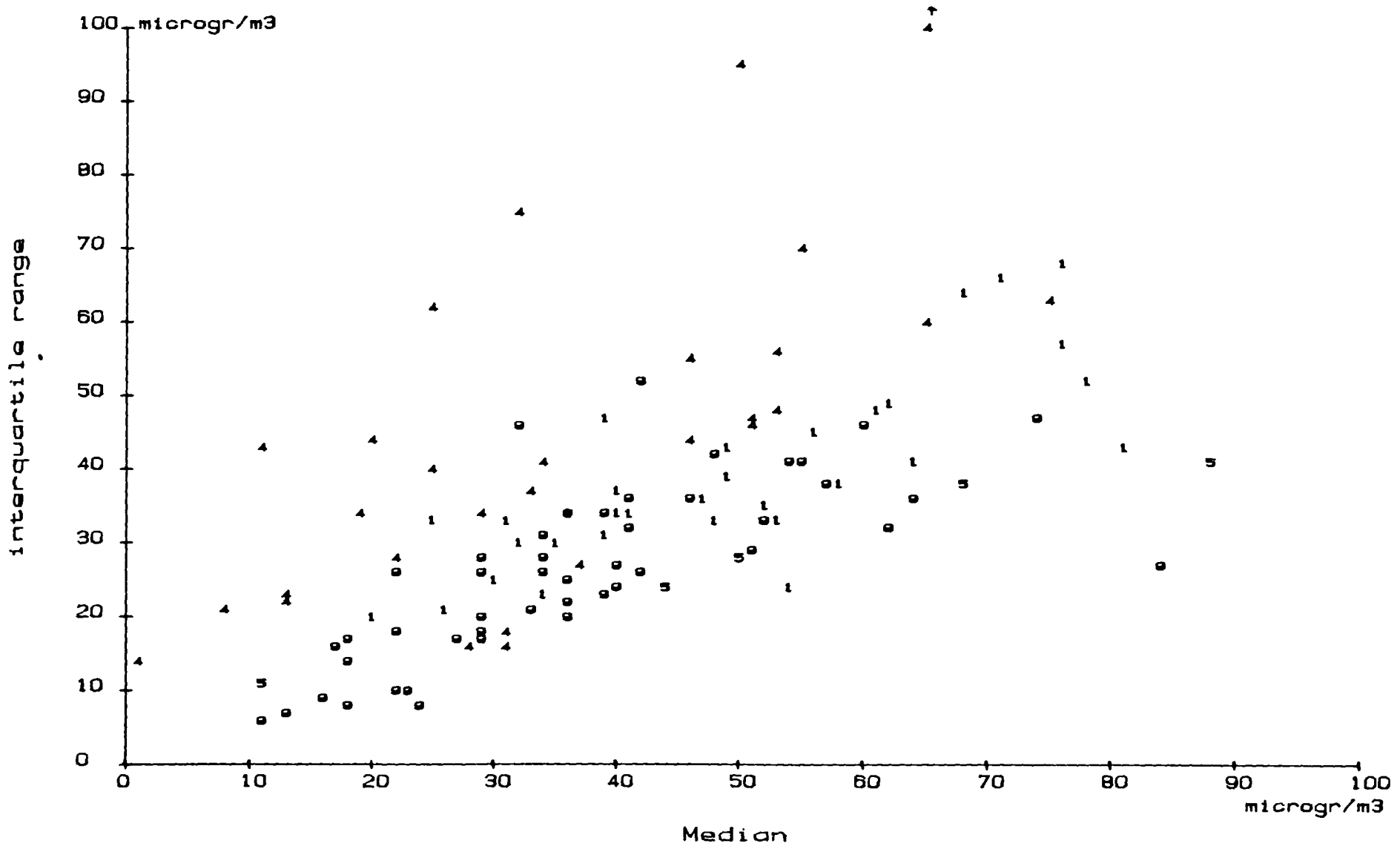


fig. II.2.18.

Global median value by town class - year 1981

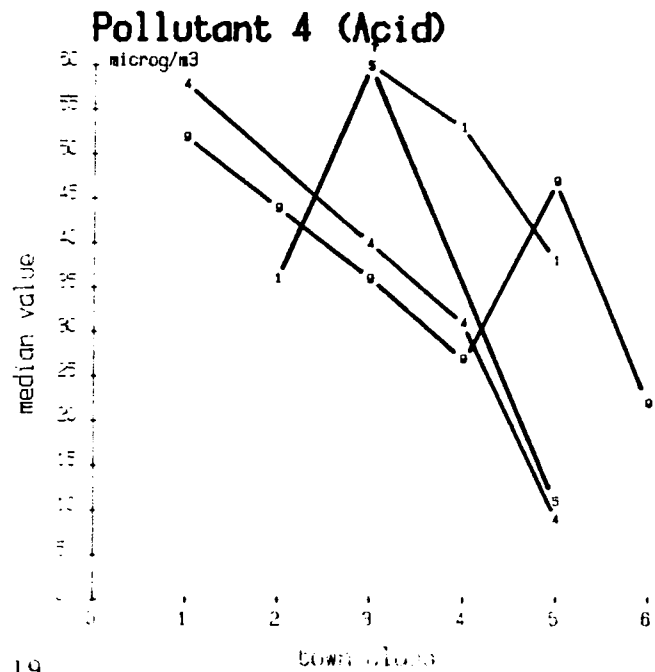
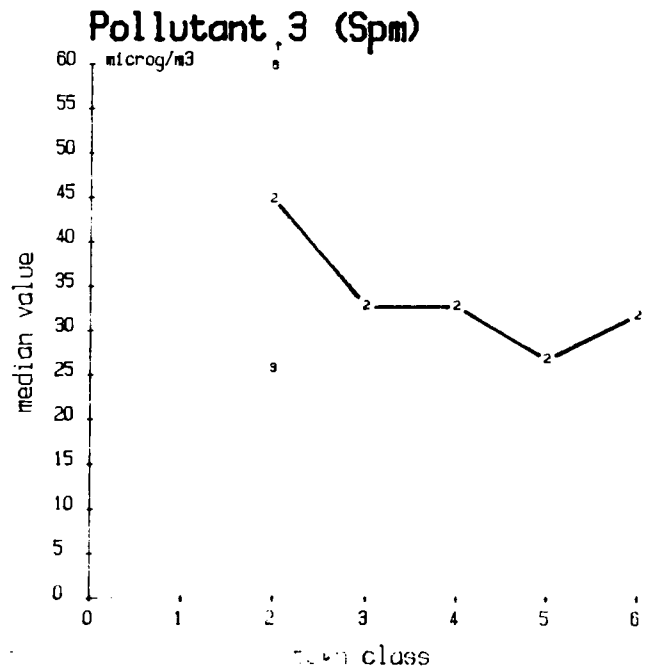
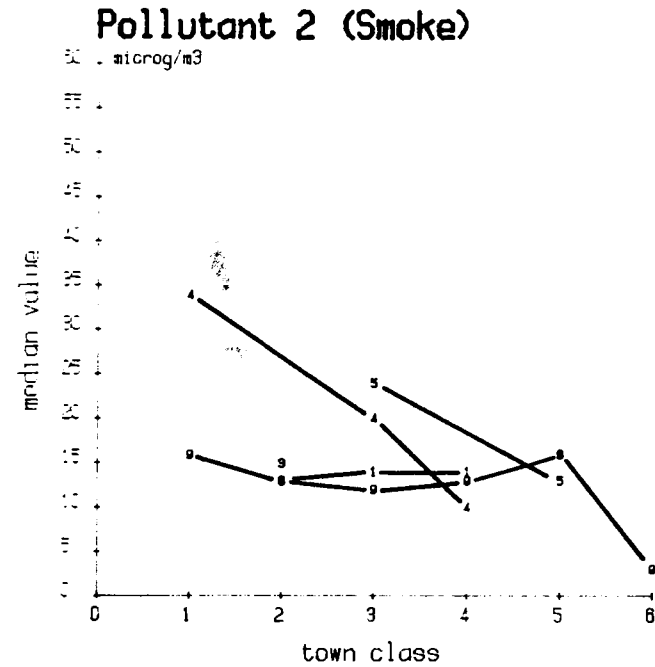
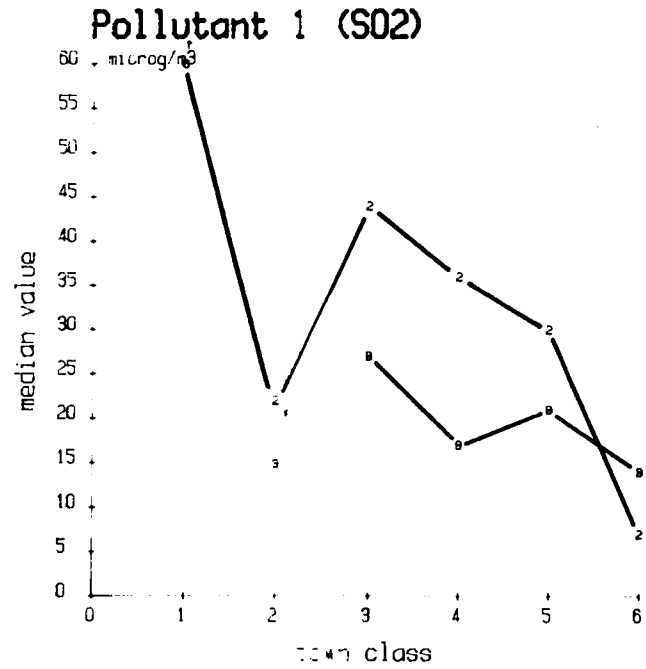


fig. II.2.19

Annual mean for stations - year 1981

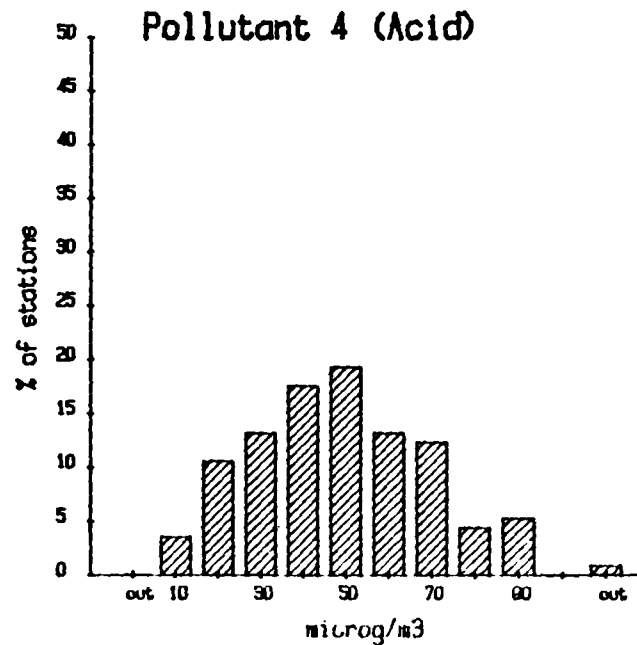
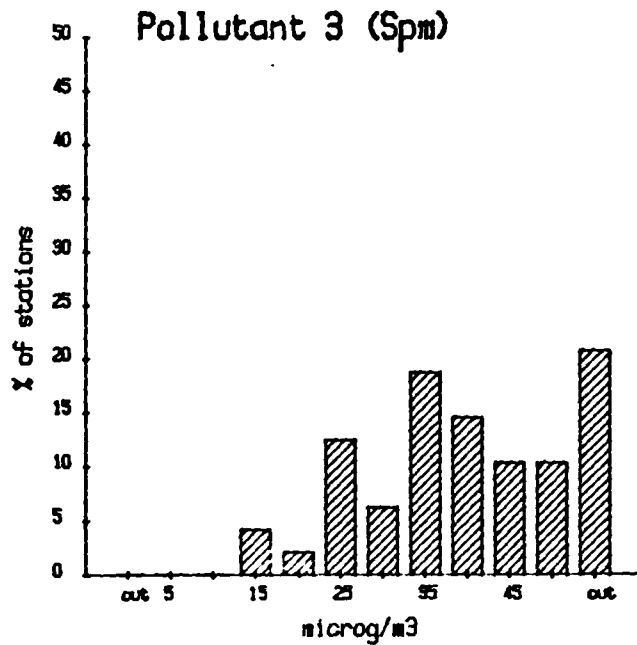
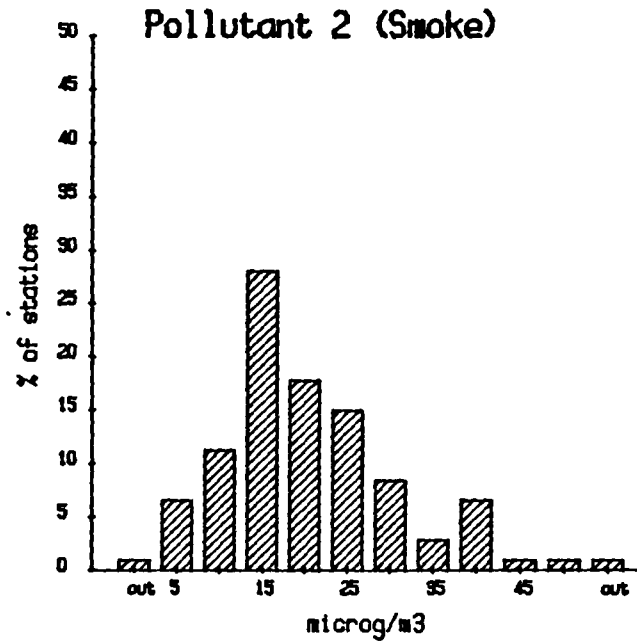
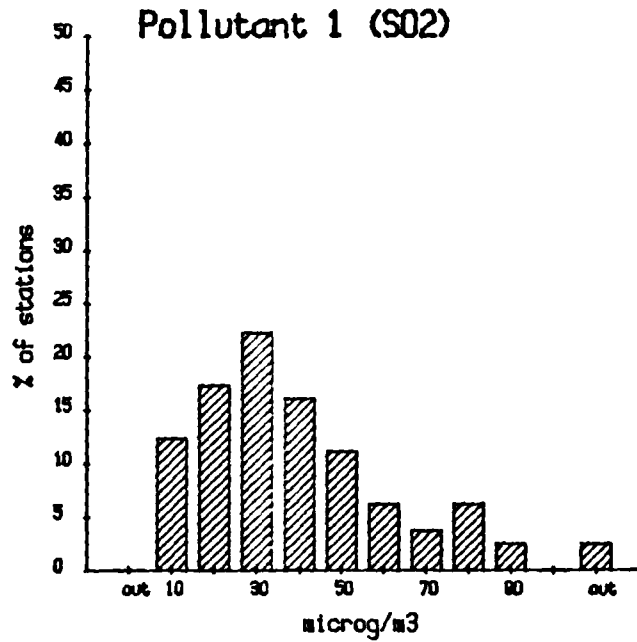


fig. 11.3.1

Annual standard deviation for stations - year 1981

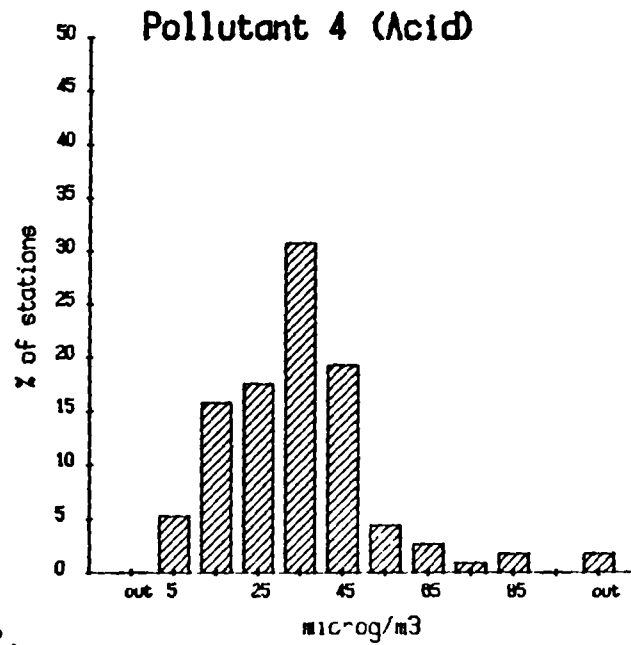
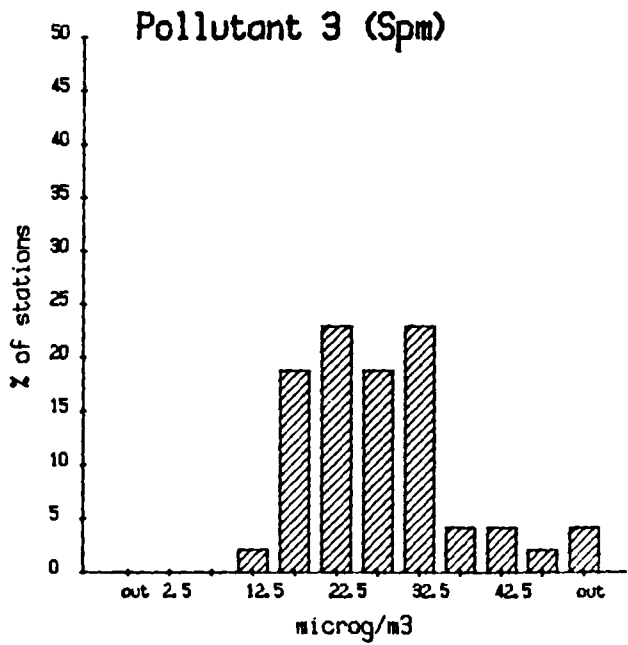
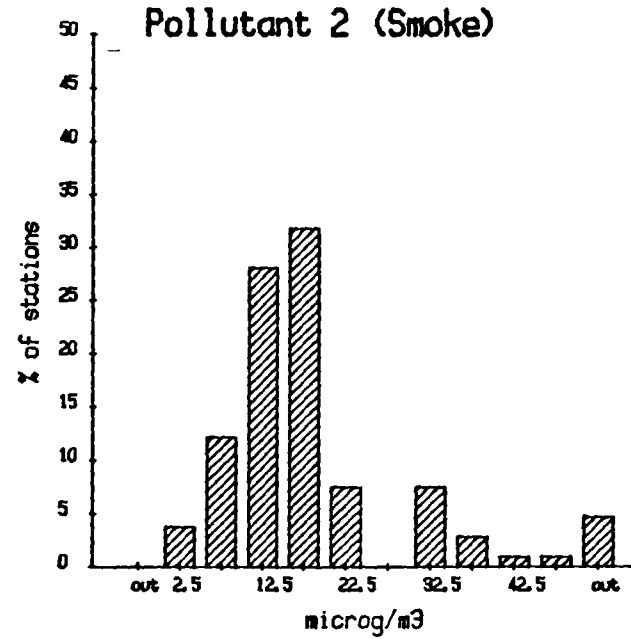
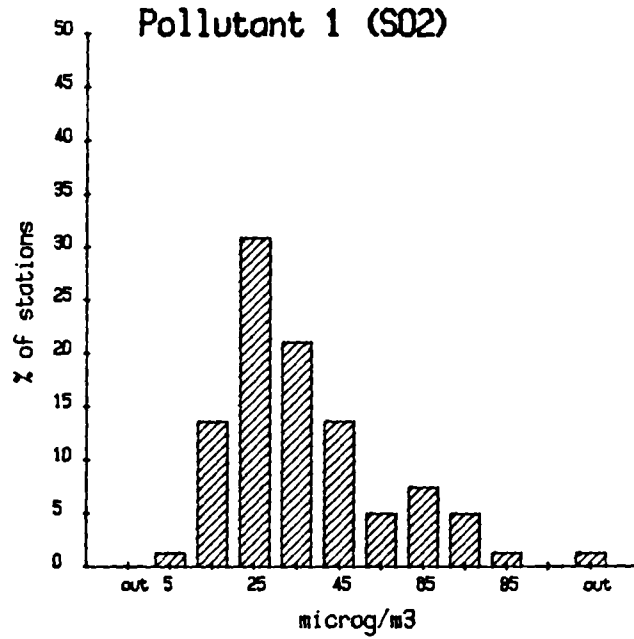


fig. 11.3.2.

Annual coefficient of variation for stations - year 1981

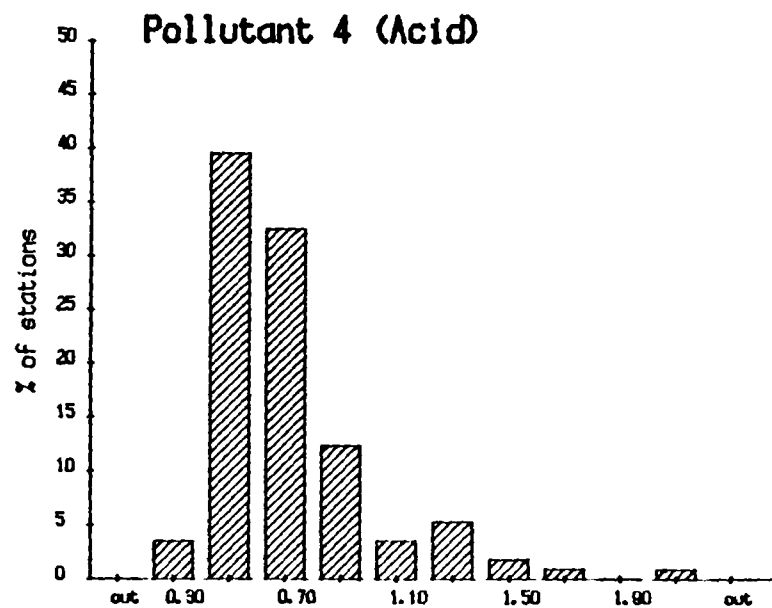
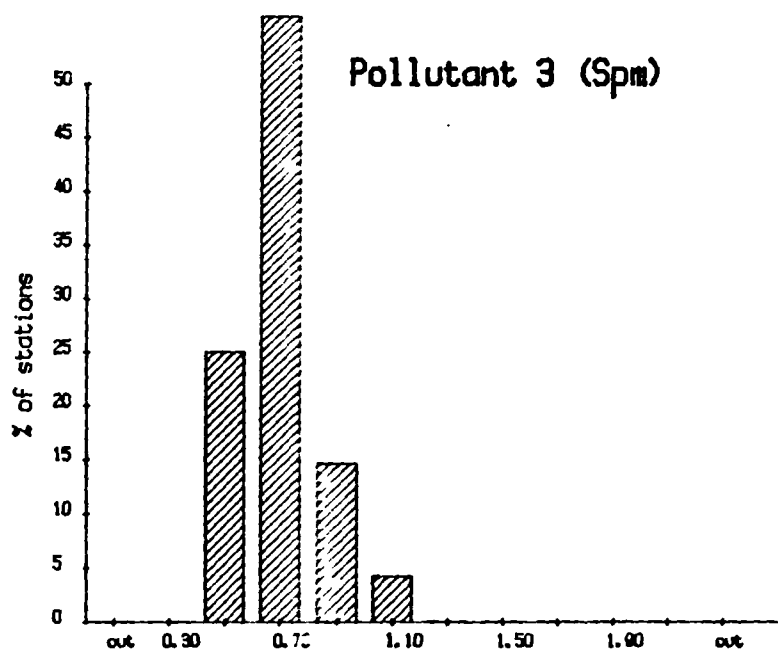
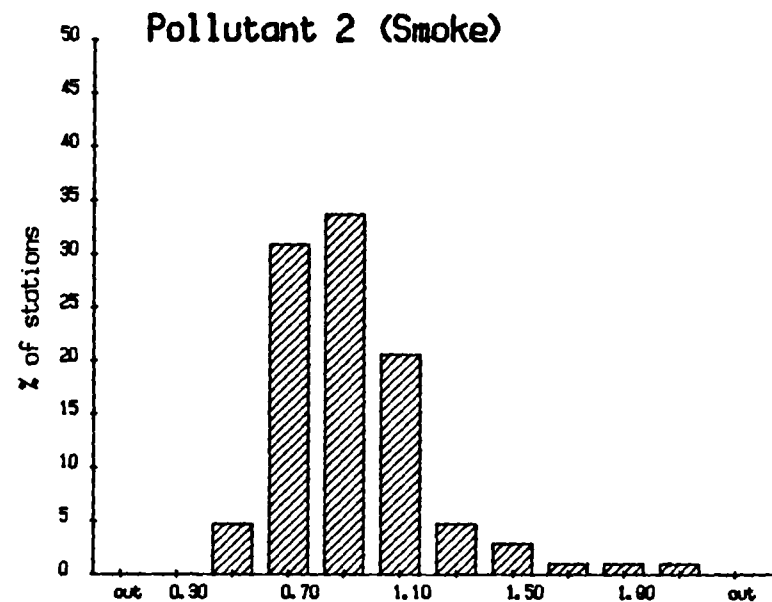
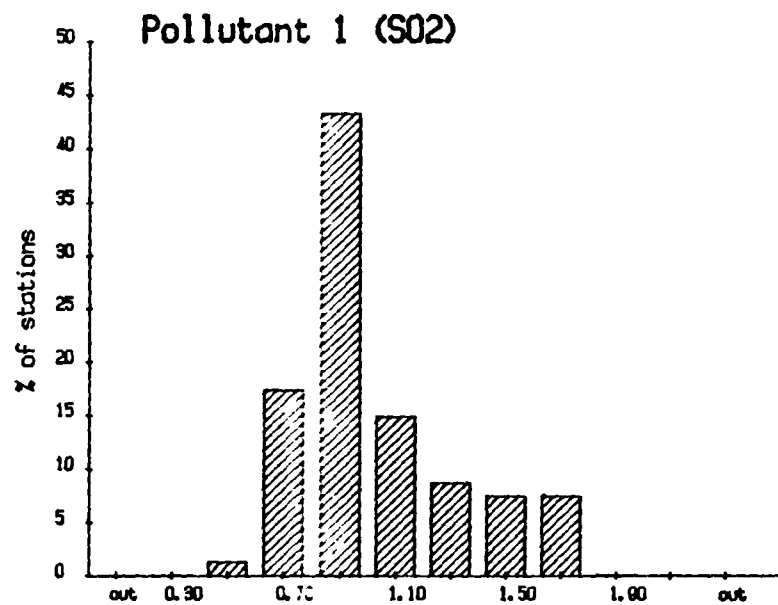


Fig. 11.3.3.

Annual skewness for stations - year 1981

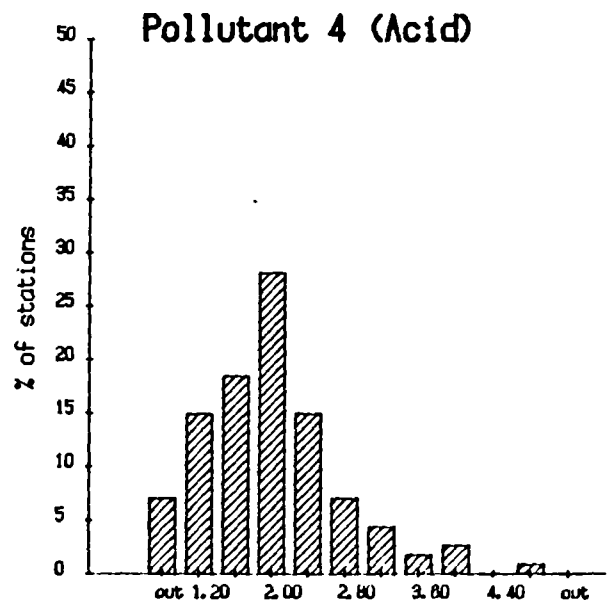
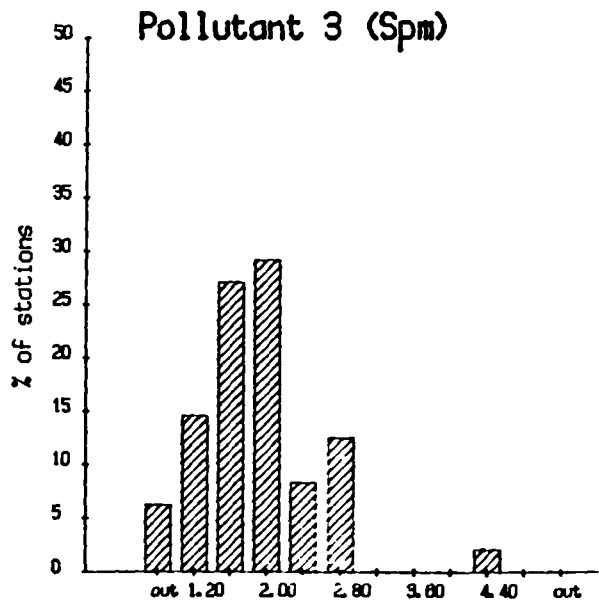
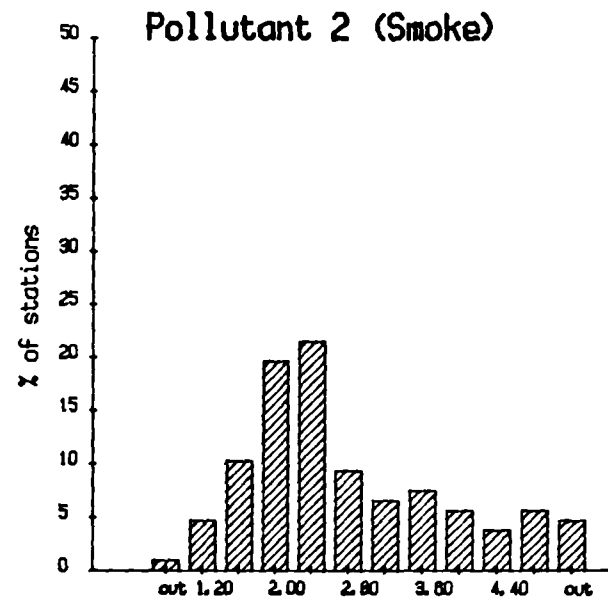
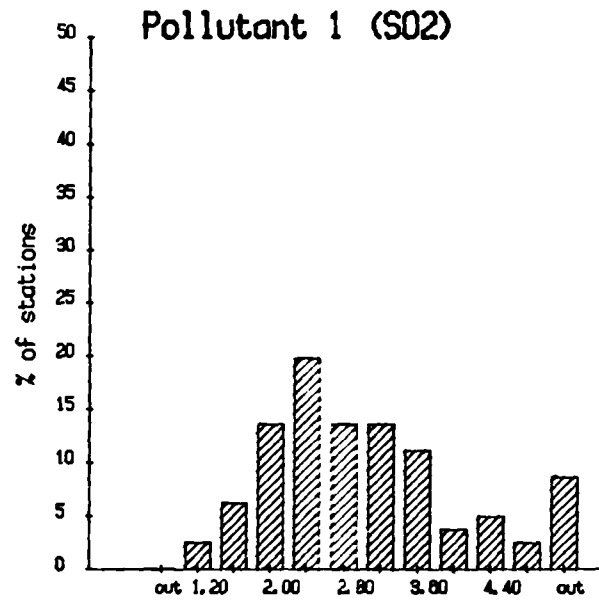


fig. 11.3.4.

Annual shape estimator of the frequency distribution - year 1981

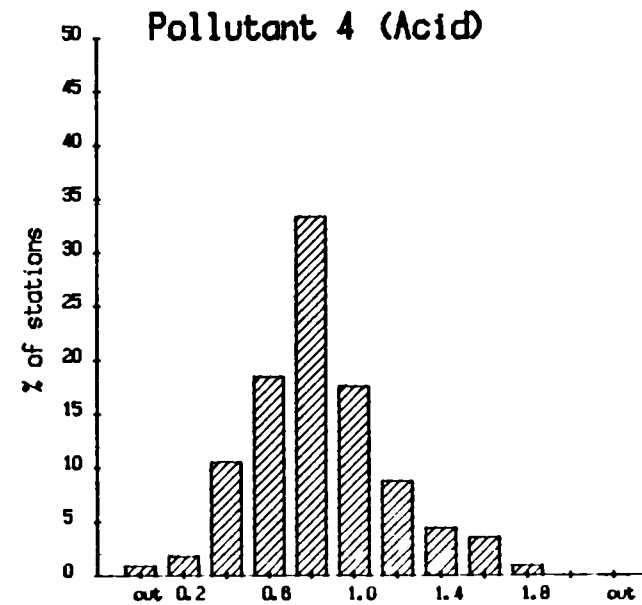
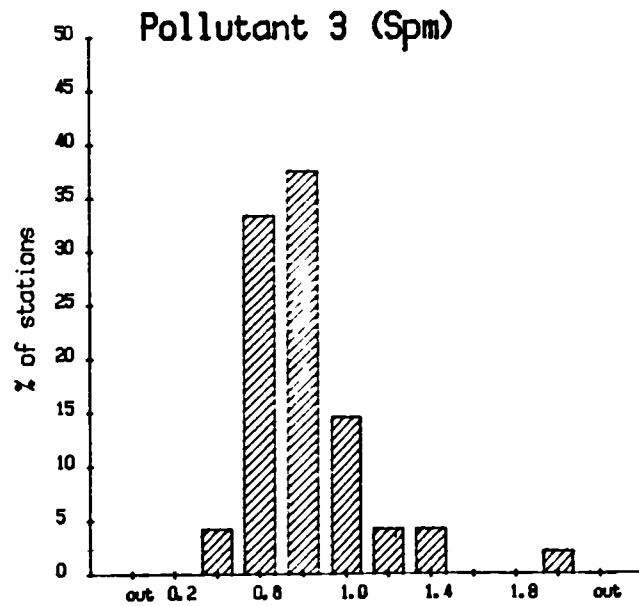
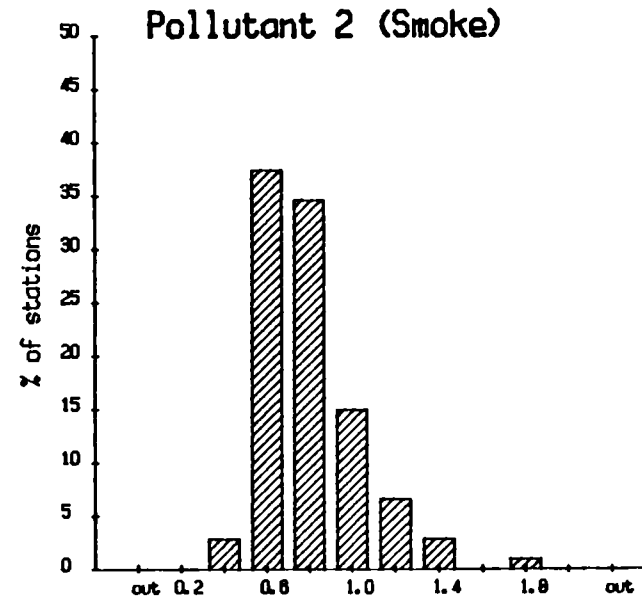
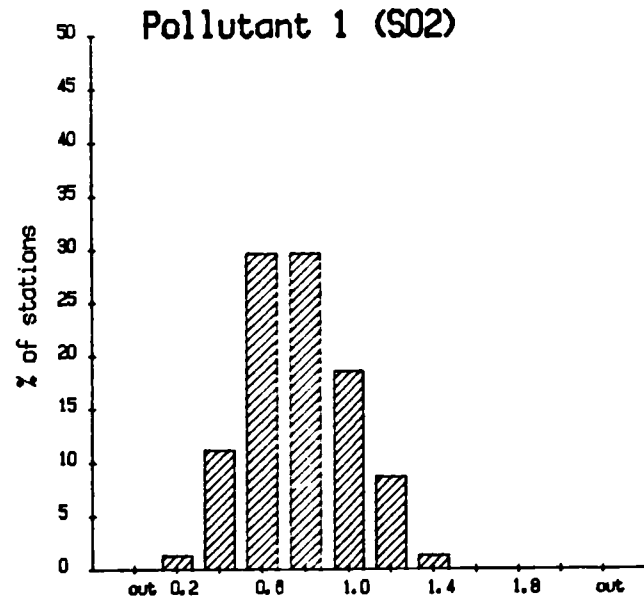


fig. 11.3.5.

Annual kurtosis for stations - year 1981

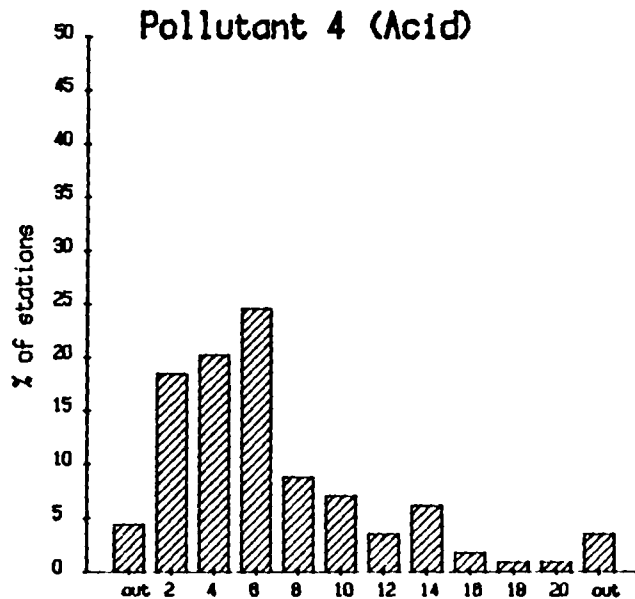
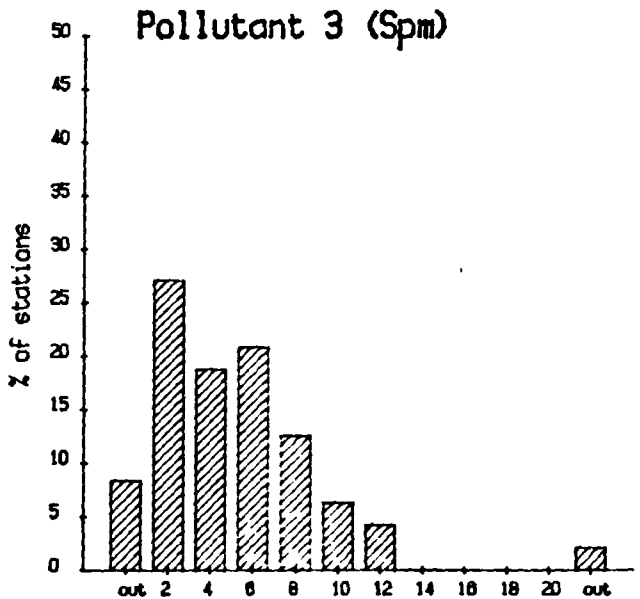
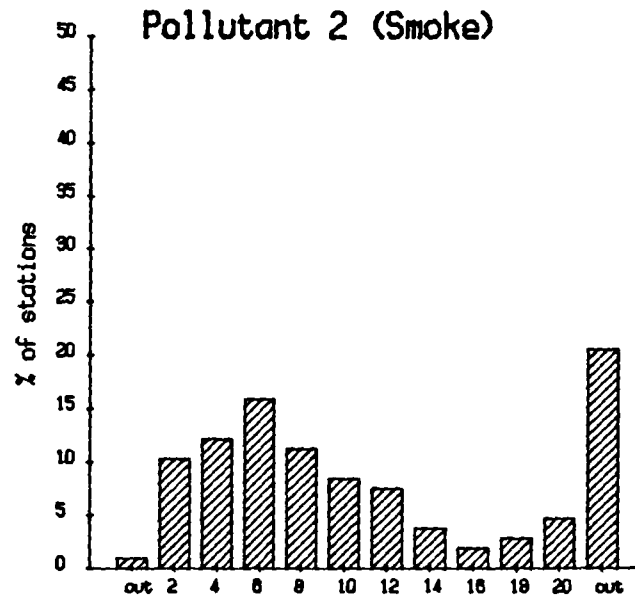
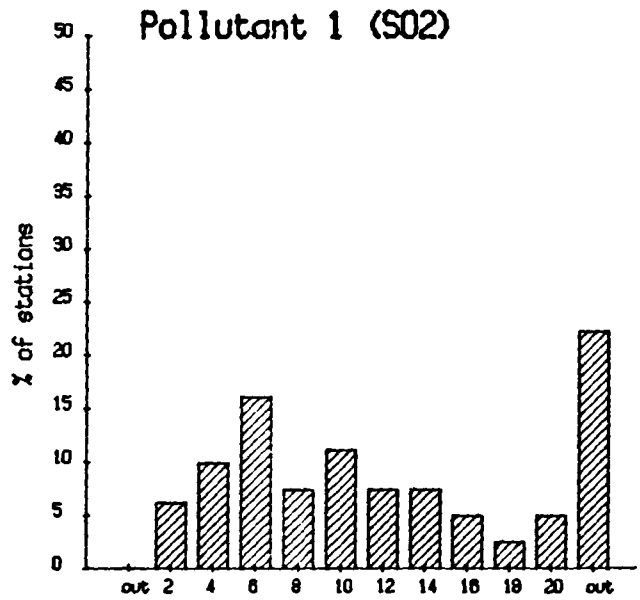


fig. II.3.6.

Plot of the percentiles 50 and 98 labelled with
the country code.
Pollutant 1 (SO2) 1981 SUMMER

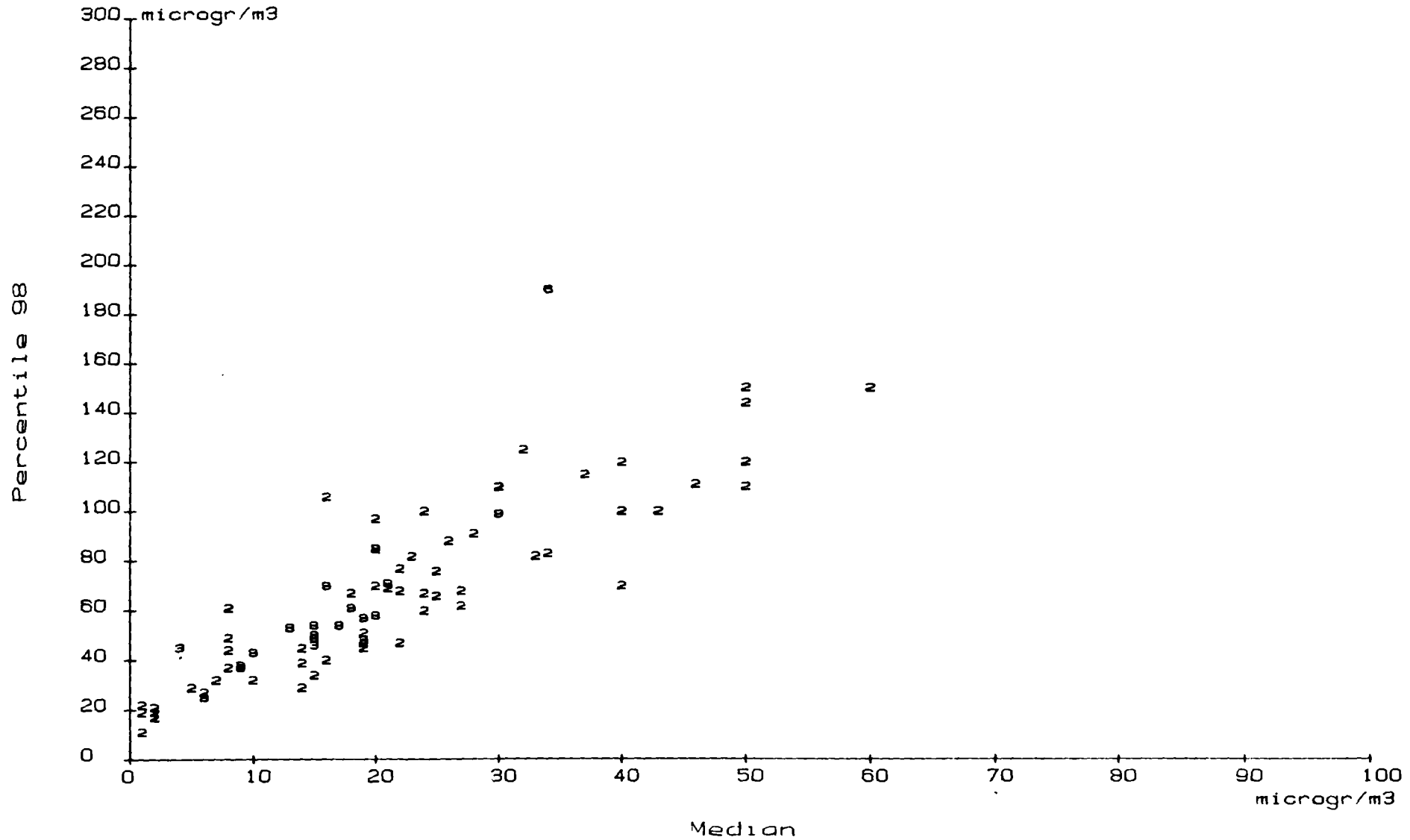


fig. II.4.1.

Plot of the percentiles 50 and 98 labelled with the country code.

Pollutant 1 (SO2) 1981 WINTER

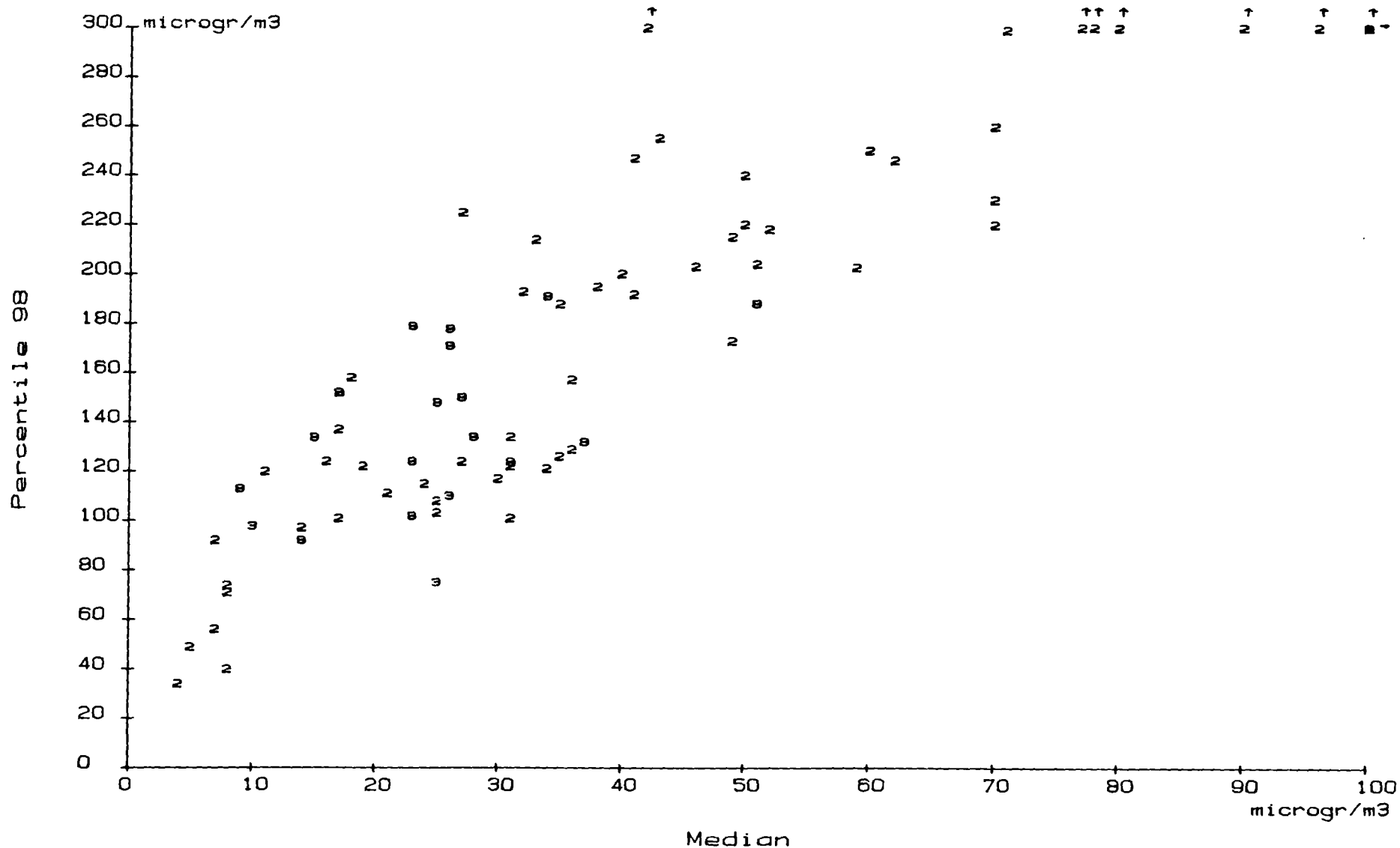


fig. II.4.2.

Plot of the percentiles 50 and 98 labelled with
the country code.
Pollutant 2 (Smoke) 1981 SUMMER

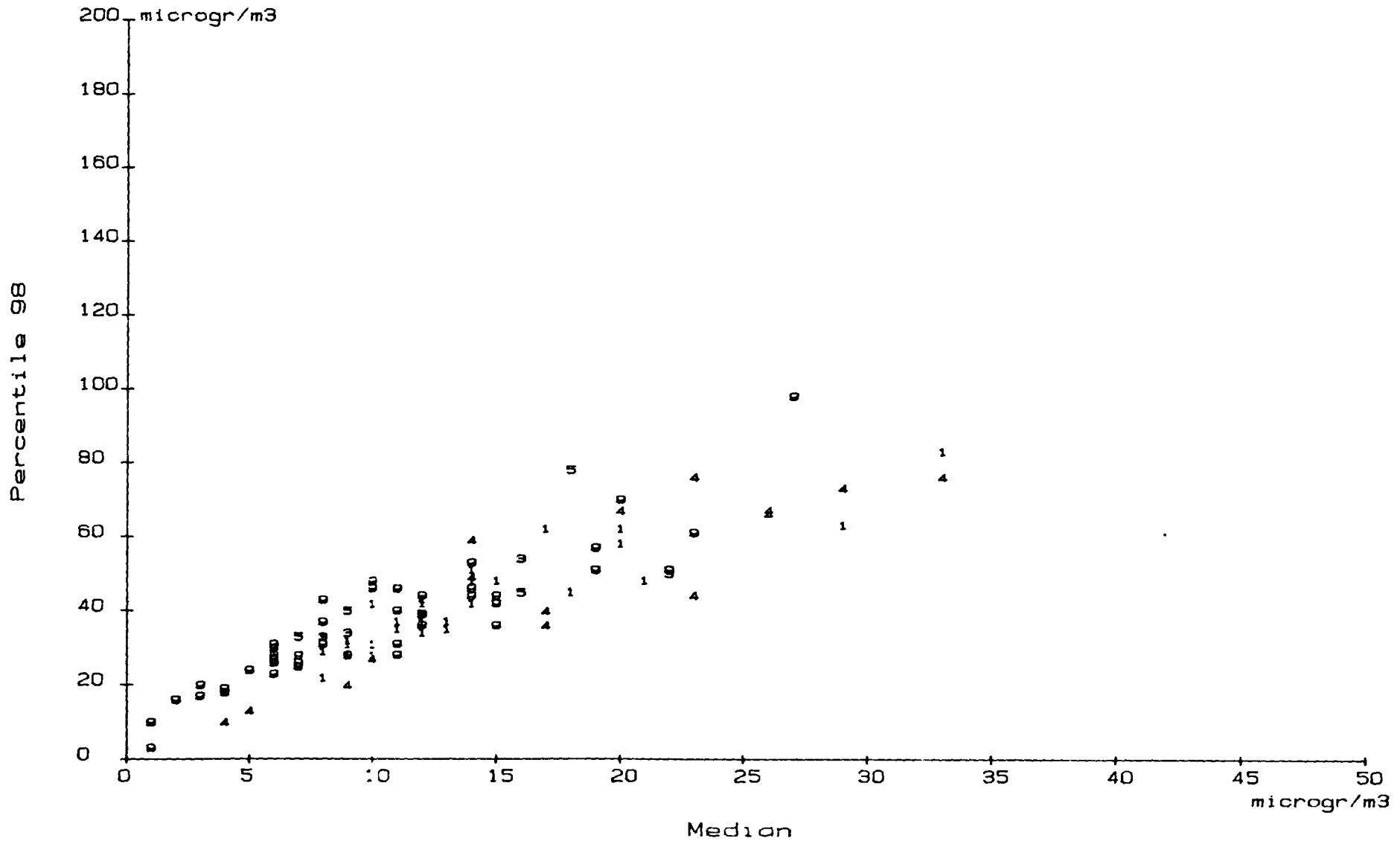


fig. II.4.3.

Plot of the percentiles 50 and 98 labelled with the country code.
 Pollutant 2 (Smoke) 1981 WINTER

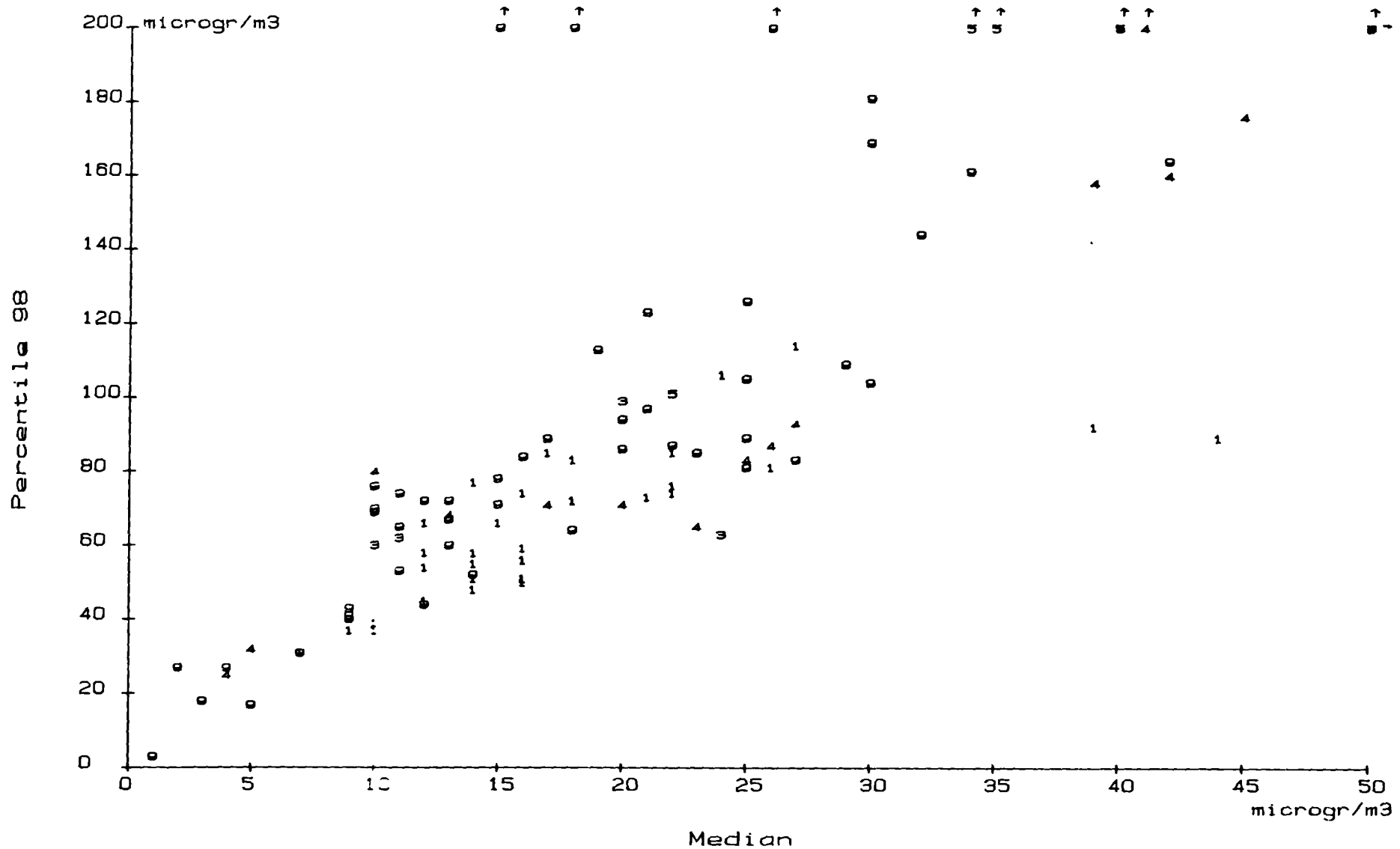


fig. II.4.4.

Plot of the percentiles 50 and 98 labelled with
the country code.
Pollutant 3 (Spm) 1981 SUMMER

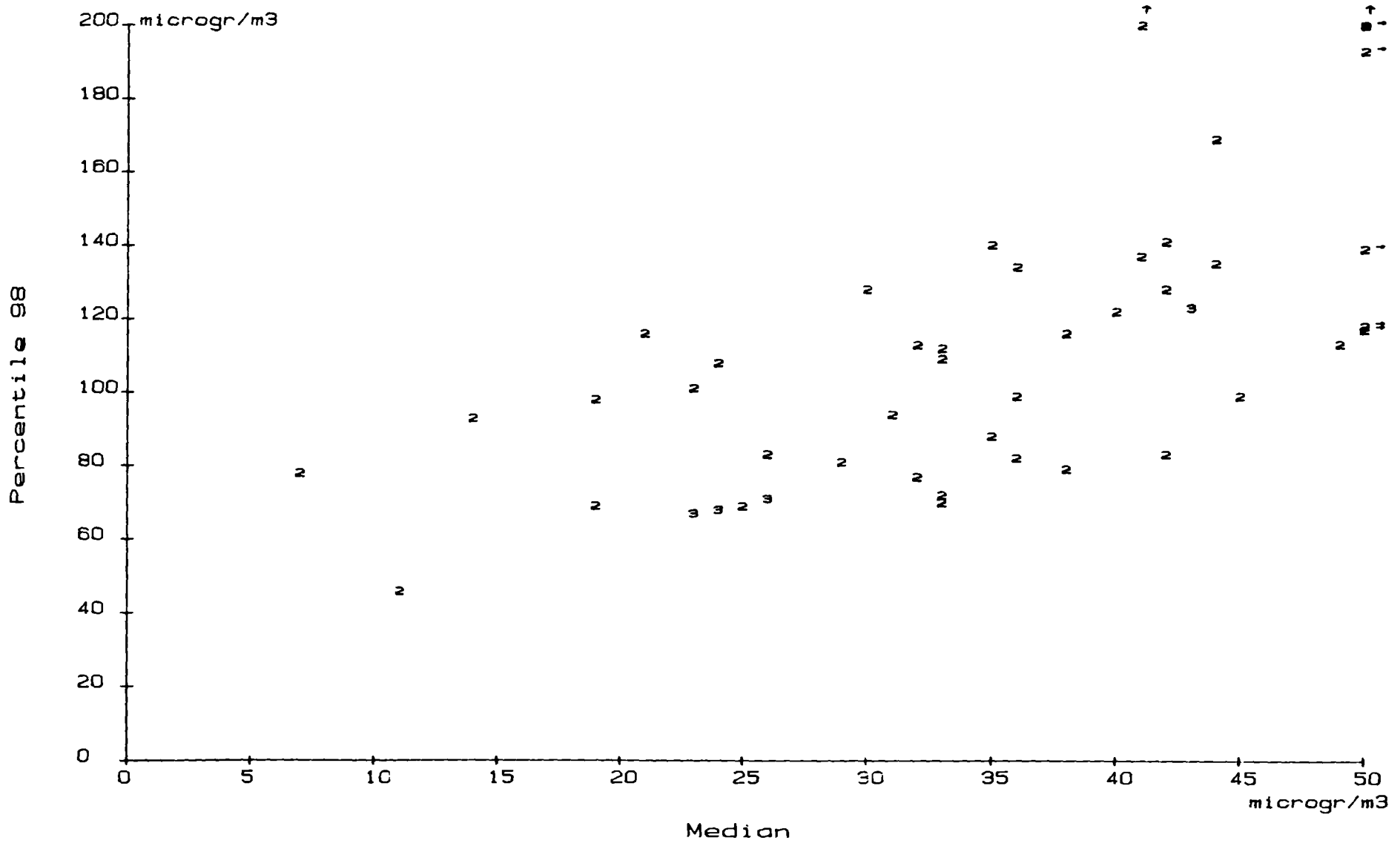


fig. 11.4.5.

Plot of the percentiles 50 and 98 labelled with
the country code.
Pollutant 3 (Spm) 1981 WINTER

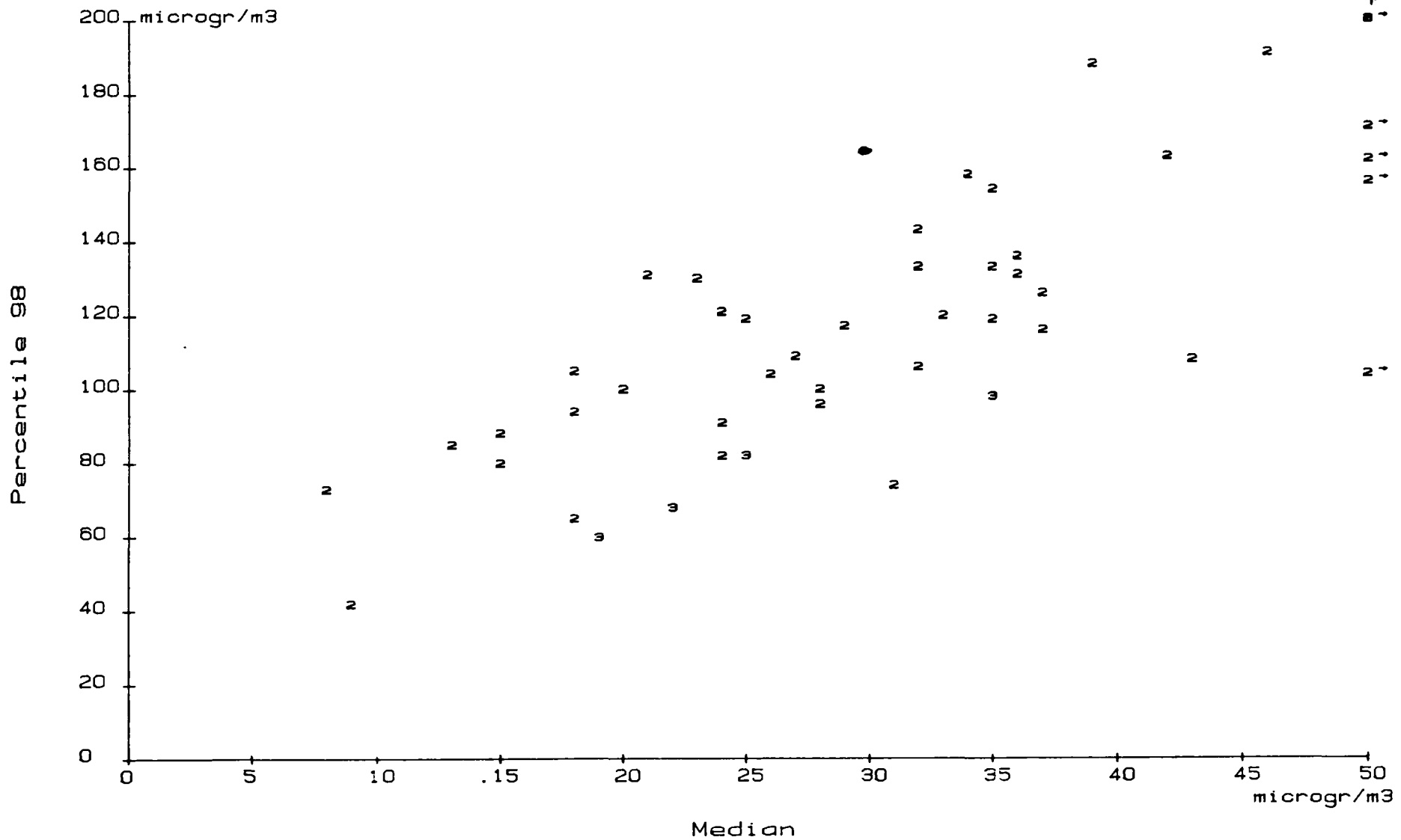


fig. II.4.6.

Plot of the percentiles 50 and 98 labelled with
the country code.
Pollutant 4 (Acid) 1981 SUMMER

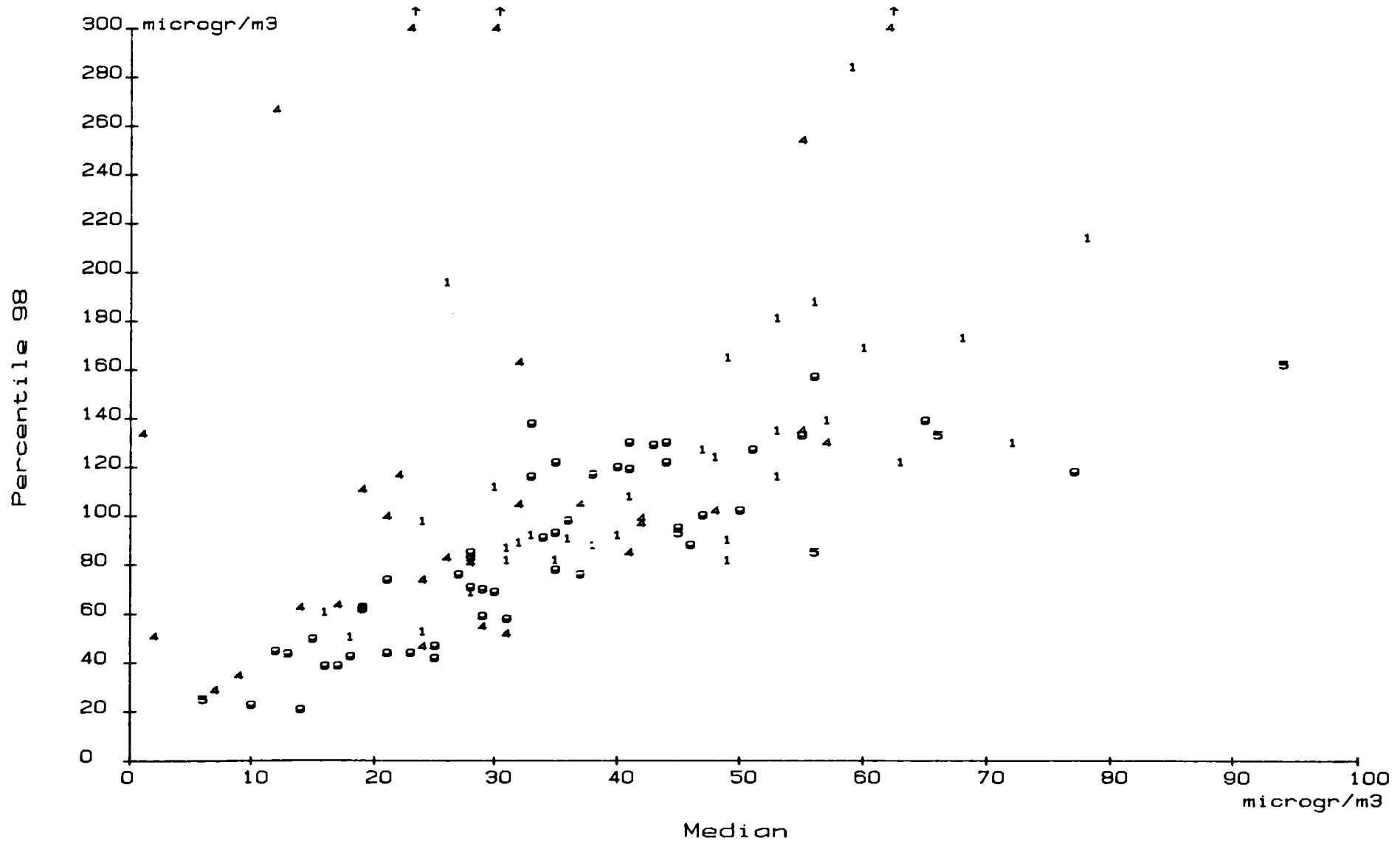


fig. II.4.7.

Plot of the percentiles 50 and 98 labelled with
the country code.

Pollutant 4 (Acid) 1981

WINTER

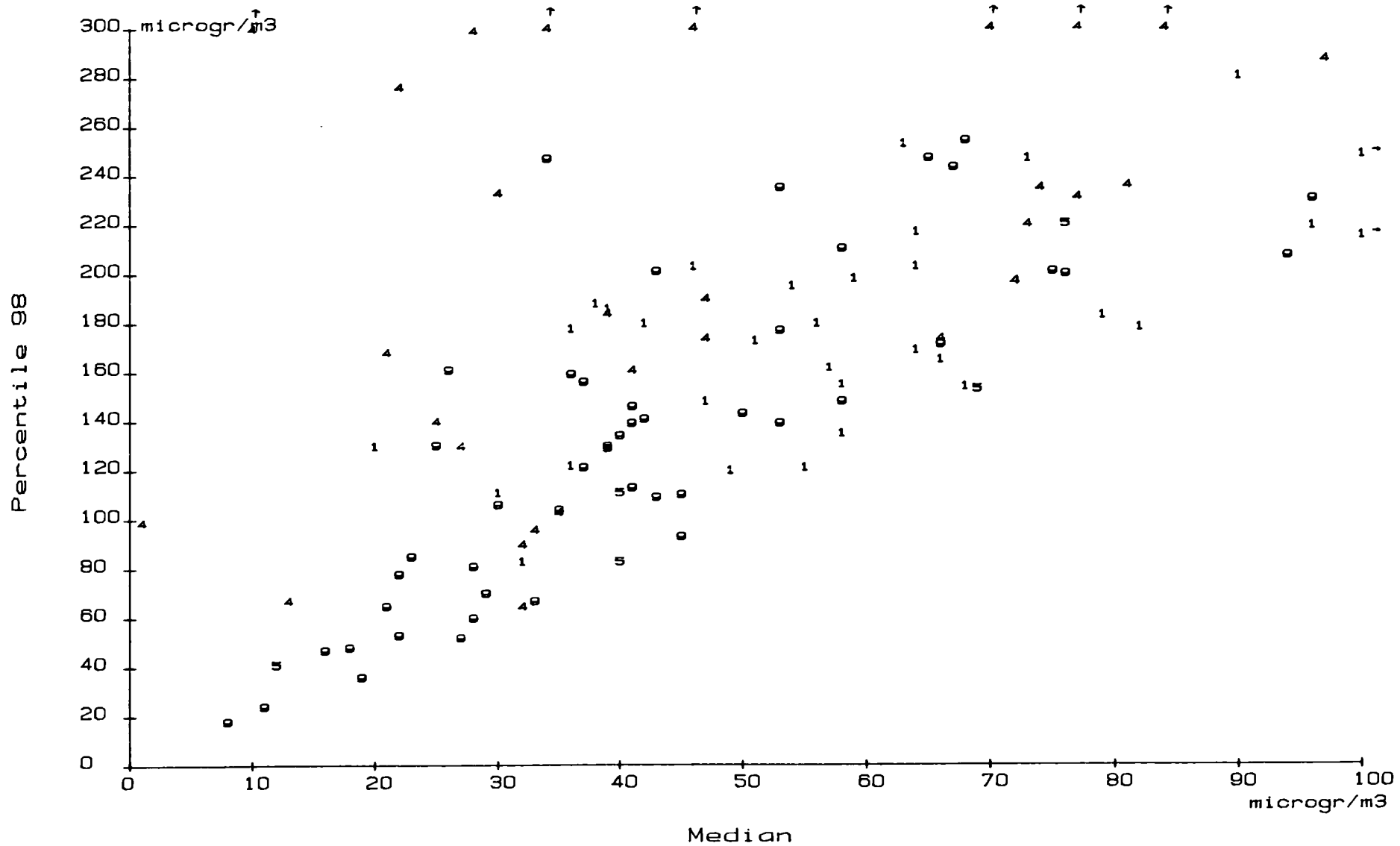


fig. 11.4.8.

Plot of the summer and winter percentiles 50 and 98 labelled with the country code.
Pollutant 1 (SO₂) 1981

dashed line: bisector.
continuous line: regression line.

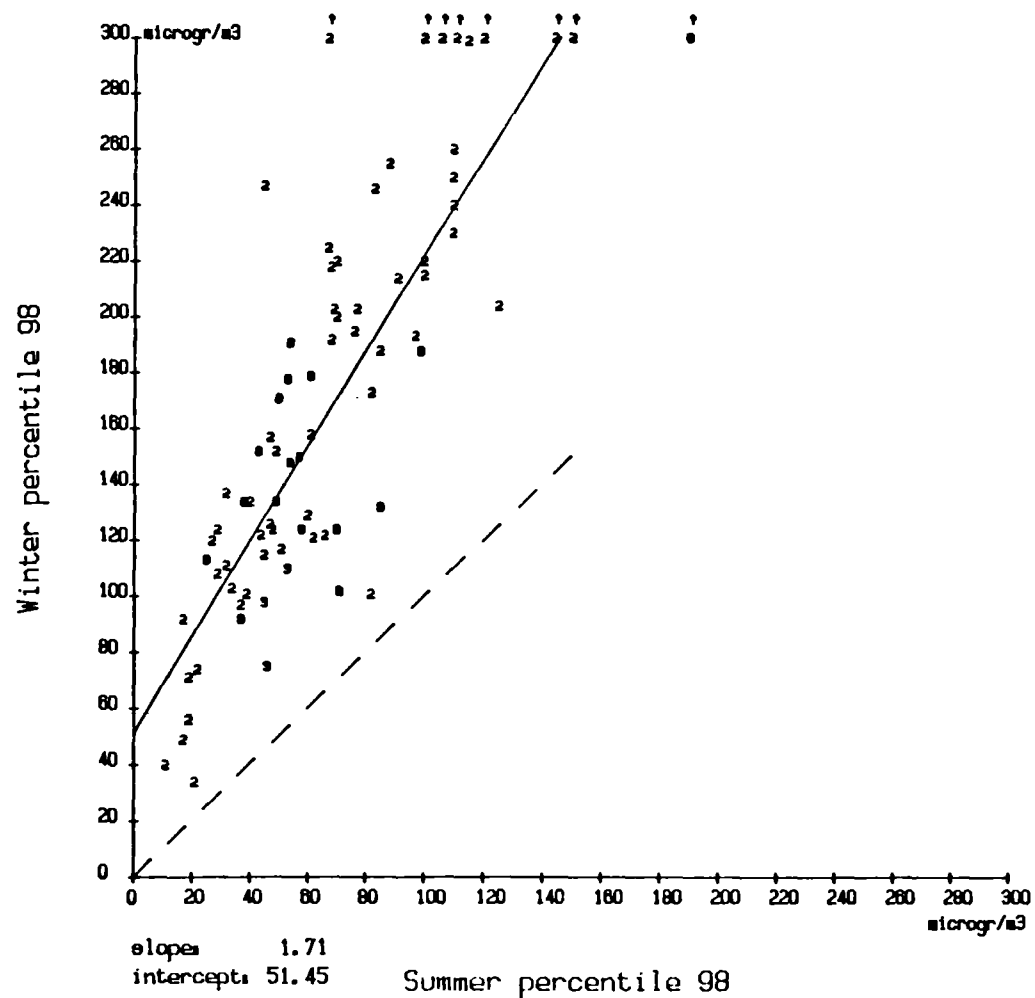
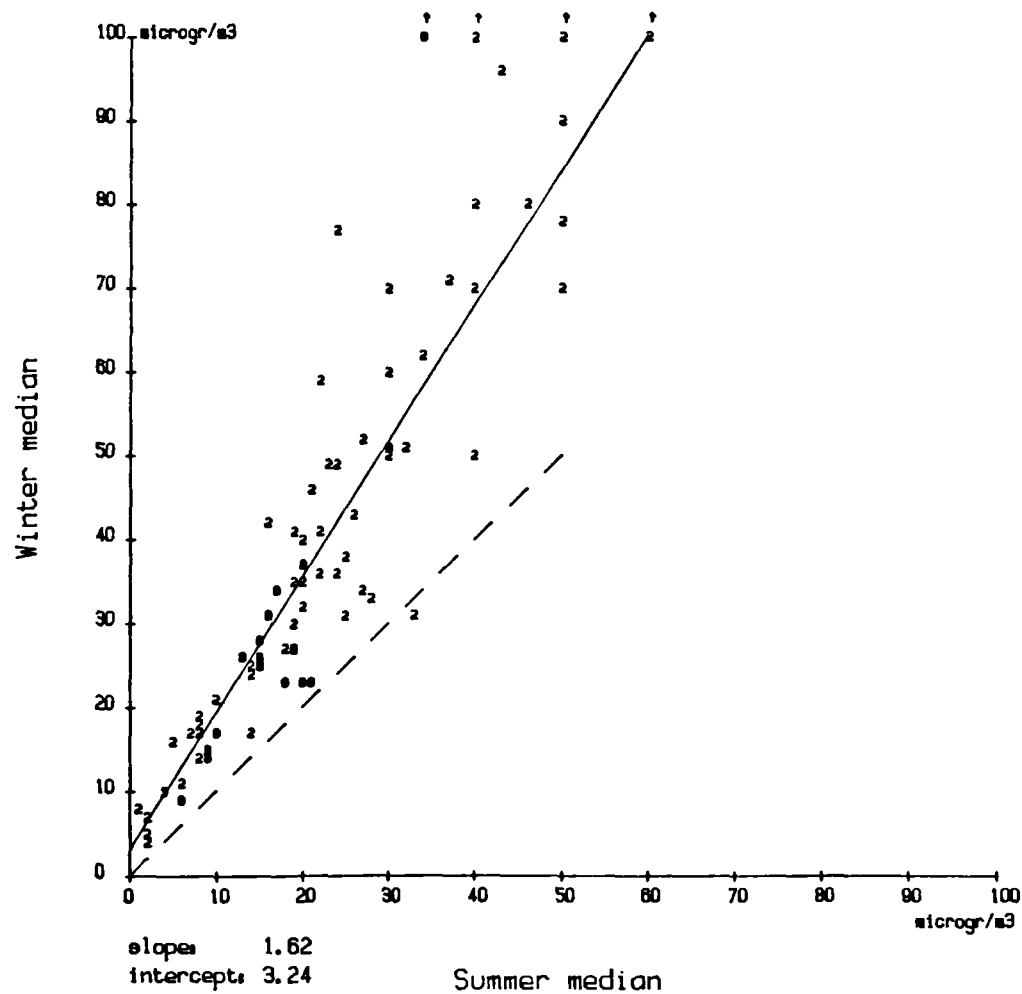


fig. 11.4.9.

Plot of the summer and winter percentiles 50 and 98 labelled with the country code.
Pollutant 2 (Smoke) 1981

dashed line: bissector.
continuous line: regression line.

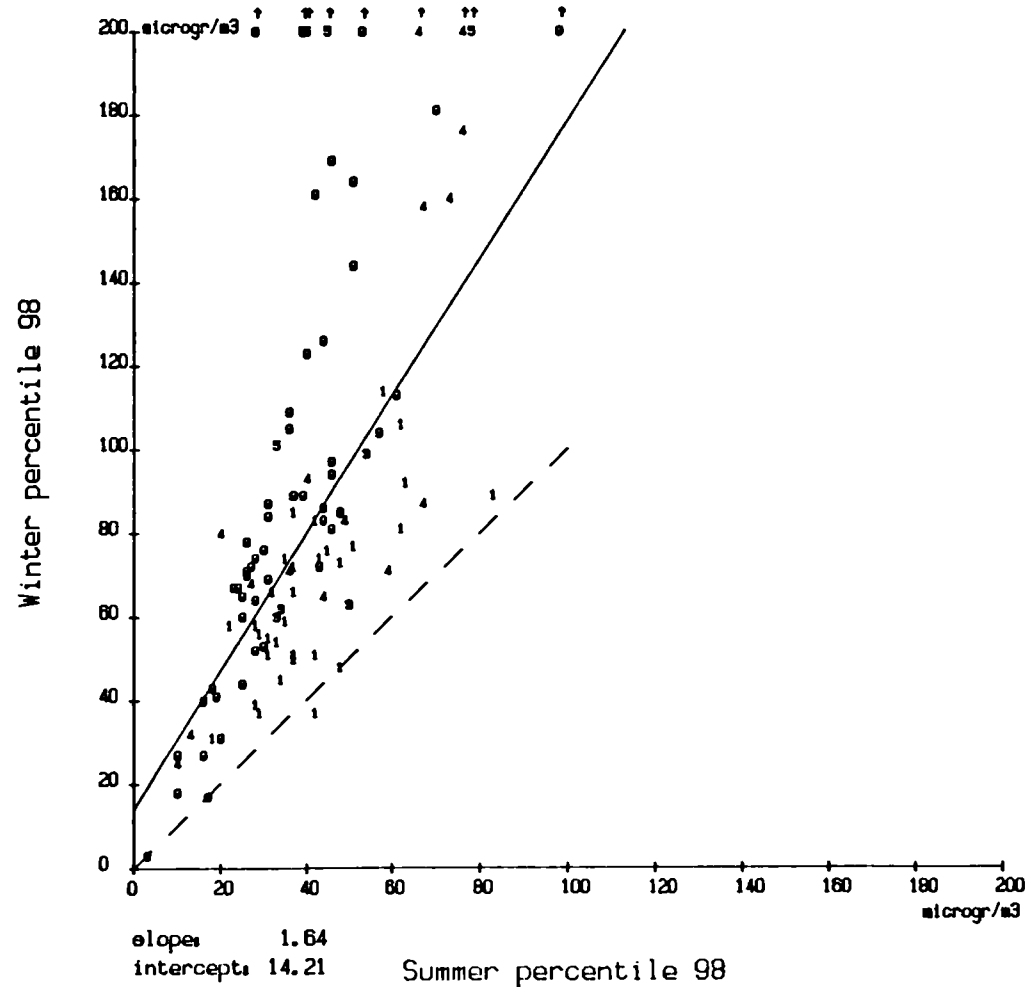
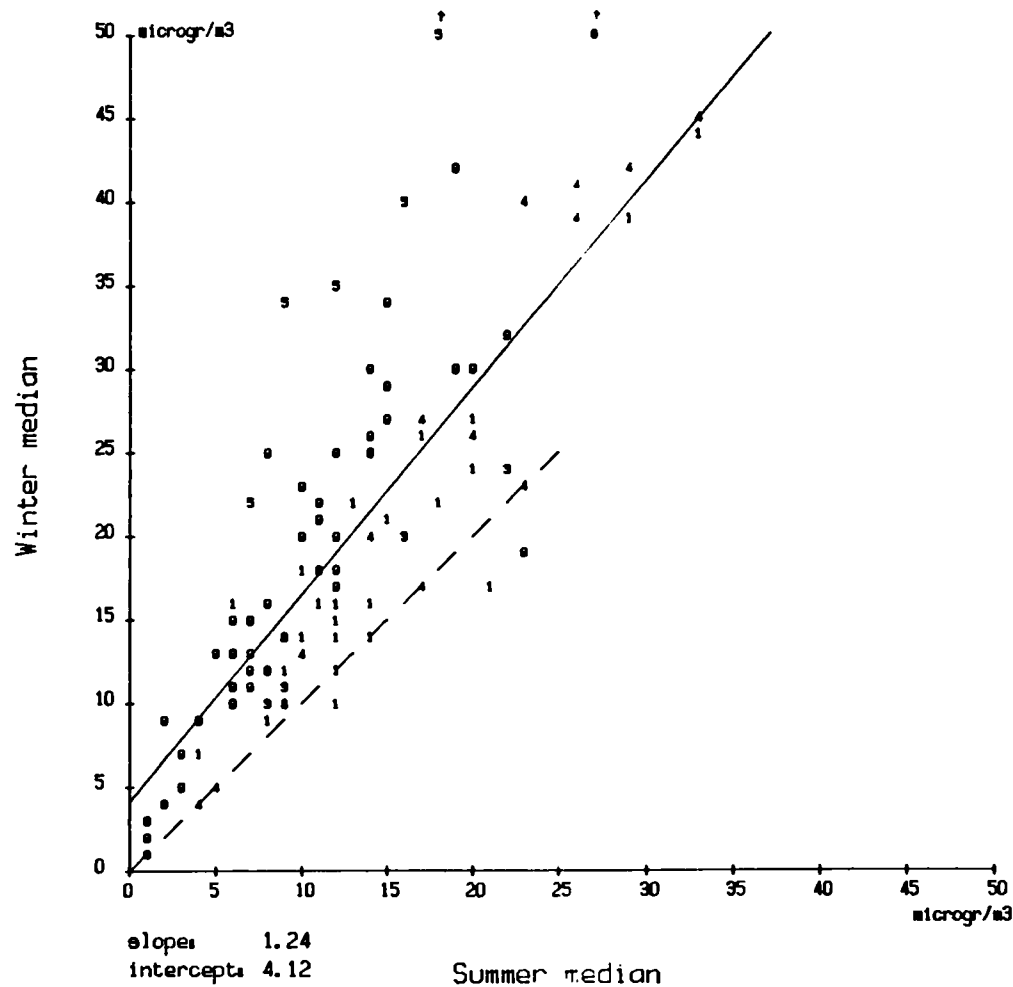


fig. 11.4.10.

Plot of the summer and winter percentiles 50 and 98 labelled with the country code.
 Pollutant 3 (Spm) 1981

dashed line: bisector.
 continuous line: regression line.

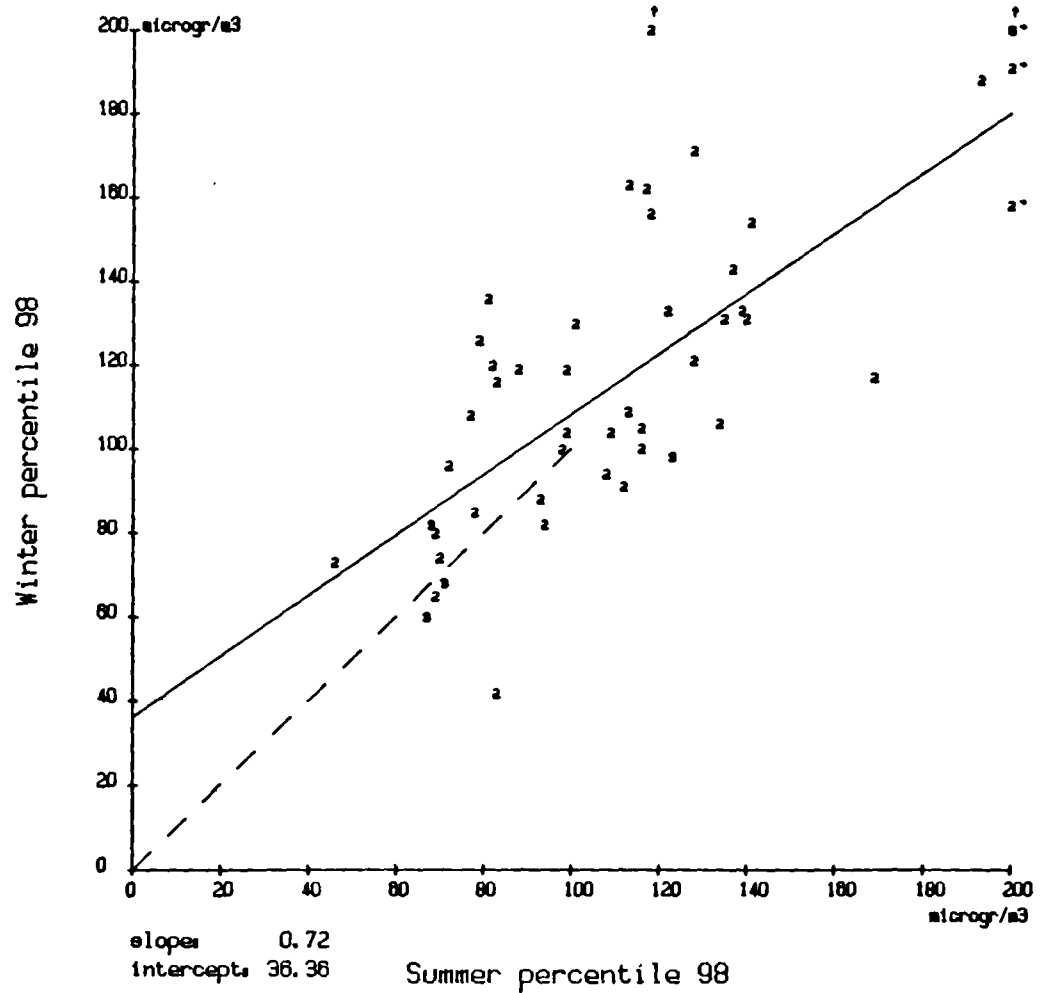
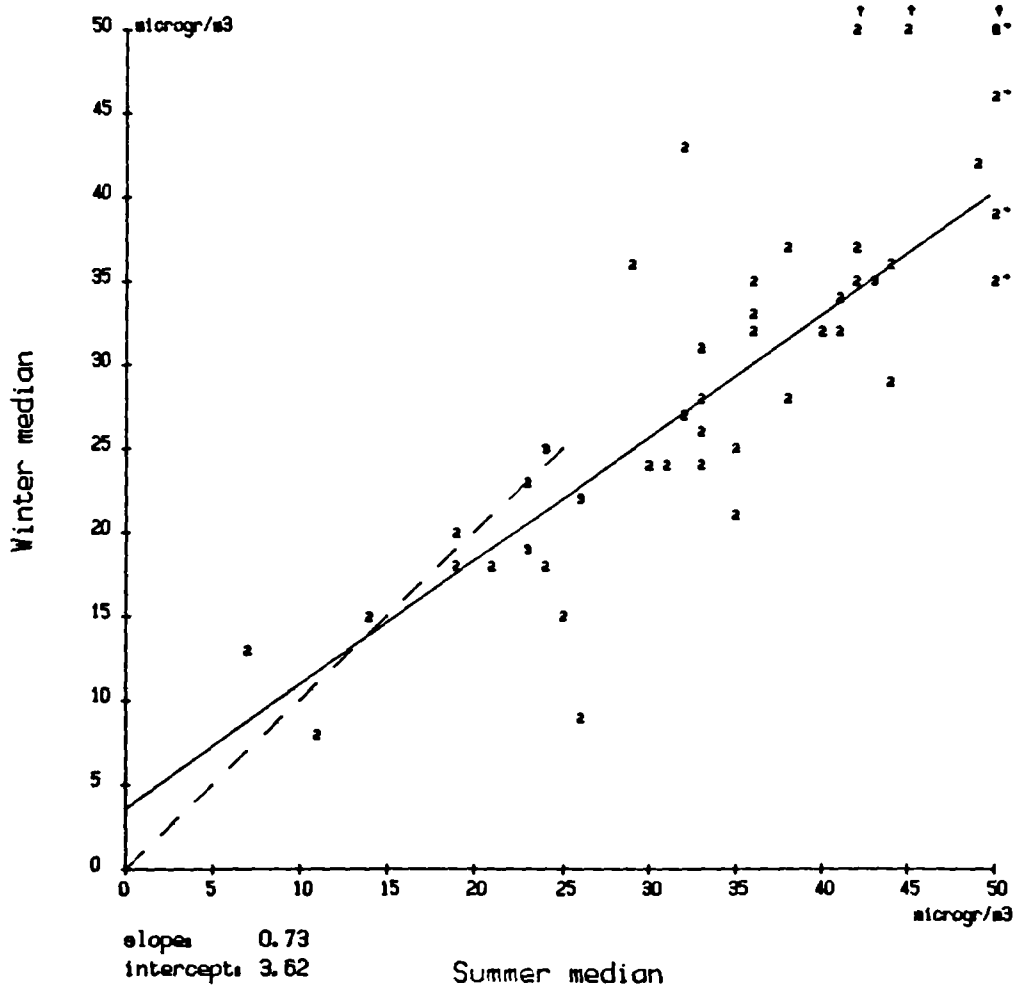


fig. 11.4.11.

Plot of the summer and winter percentiles 50 and 98 labelled with the country code.
 Pollutant 4 (Acid) 1981

dashed line: bissector.
 continuous line: regression line.

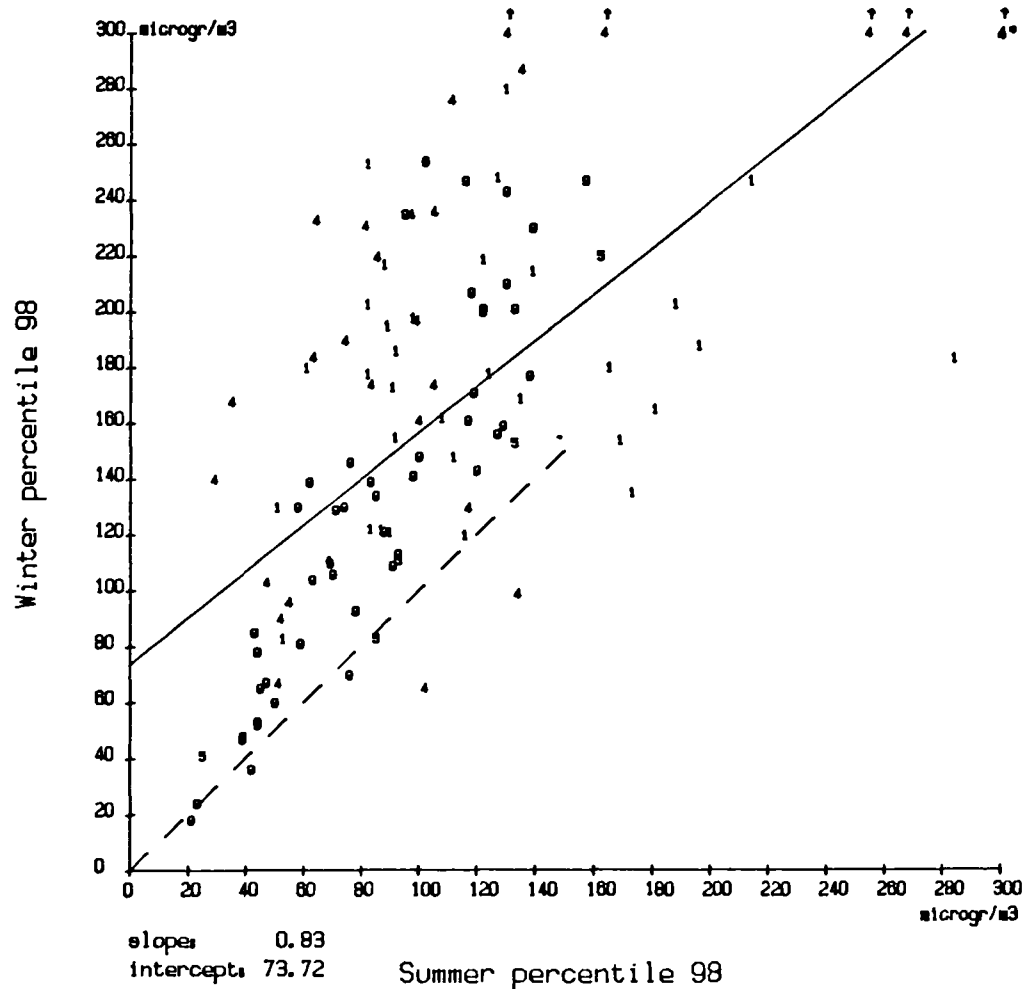
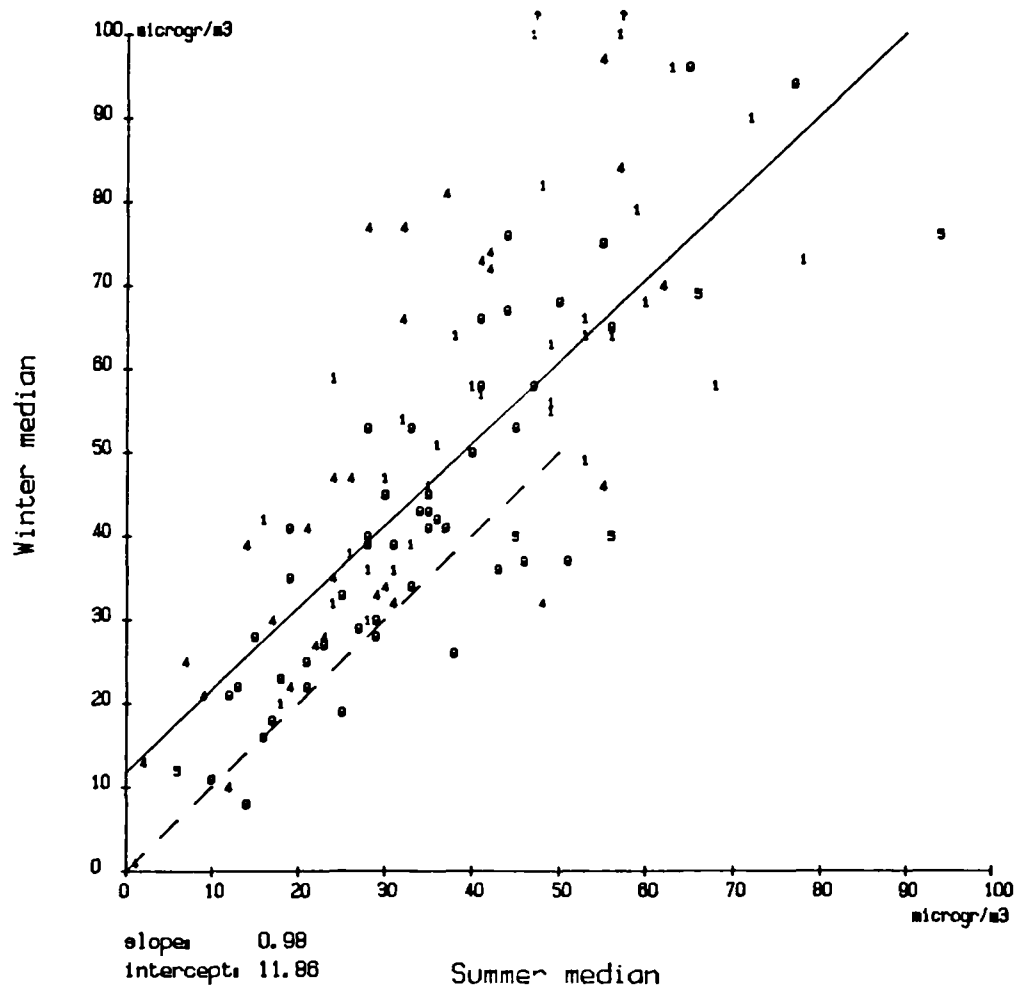


fig. 11.4.12.

TABLE OF ANNEXES

Unselected series

- A.1 Monthly medians
- A.2 Global description

Selected series

- A.3 Yearly percentiles 25,50,75,95,98
(see corresponding figures II.2.1 to II.2.18)
- A.4 Annual descriptive parameters
(see corresponding figures II.3.1 to II.3.6)
- A.5 First characteristics of the time series
(see corresponding figures II.4.1 to II.4.12)
- A.6 Status of the isolated extremum of the monthly
median values.

ANNUAL CHARACTERISTICS OF THE SERIES (year: 1981)

Annex 1: Monthly medians

Column caption:

<u>Label</u>	<u>Explanation</u>
Station code	PPCVVEESSSPLTMSIT: PP country code C town class code VV town code EE always zero SSS station code PL pollutant code TM measurement technique code SIT situation code
monthly medians	($\mu\text{g}/\text{m}^3$) special symbols used: "--": no data recorded for the month "." : at least one missing value for the month.
cas no.	number of cases reported for the year (measured values).

Annual Report 81

Monthly medians

Pollutant 1: SO₂ (column caption: see A1.1)

Station code PPCVVESSSPLTMSIT	Values in $\mu\text{g}/\text{m}^3$												cas no
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
02101000060103110	110	85	80	50	80	50	50.	40	40	80	70	140	364
0080103113	80	80	60	40	60	30	50.	30	40	70	65	120	364
0160103163	150	130	120	80	90	60	50.	30	60	100	90	210	364
0180103163	150	115	100	80	70	40	30.	30	50	80	75	120	364
0200103113	150	95	90	70	50	40	30.	40	50	60	80	170	364
0280103113	90	70	50	50	50	60	50.	50	40	50	65	130	364
02201000050104161	18.	51	19	20.	14	13	13	13.	13	13.	13	19.	355
0070104163	58.	41.	23	20	14.	14.	14.	13.	14	16	22	30.	338
0080104164	45.	55.	27.	24.	20	21	20.	18.	25	26	34.	58.	346
0100104000	65.	53.	28	30.	24.	23.	29.	29.	27.	22	28.	36	342
0110104000	46.	37	29.	13.	13.	22.	20	25.	24	30.	35.	39.	313
0120104000	51.	46.	23	17	15.	16.	14.	15.	18	21	30	52	346
0130104000	33.	38	25.	21.	21.	---	13.	14.	17	15	19.	35	310
0140104000	35.	18.	32.	33.	19.	14	15.	14.	23	20	25	56	344
0150104000	64.	60.	28.	43	32.	32.	16.	21.	17.	14.	26.	27	318
0160104000	37.	60	20	27.	19	17	15	16.	19	18.	25	49	349
02301000020105160	120	145	80	---	---	---	---	---	---	---	---	---	90
0030105000	---	---	---	60.	40.	35	40.	45.	40.	55.	70.	110.	227
02302000020105160	130	175	80	---	---	---	---	---	---	---	---	---	90
0030105000	---	---	---	40	60	50	40.	50.	50.	70.	40.	60	253
02303000010105160	130	165	70	80.	70.	60	80.	80.	60.	60.	65.	100.	291
02304000010106174	127.	143.	83.	65.	46	31	43	40.	43	74	85	136.	338
0030107000	97.	82.	35.	27	18.	---	19.	22.	26.	31.	---	---	206
0050107160	149.	104.	71	66	46	45	40.	40.	46.	48.	65.	107.	324
02305000810109163	85.	127	45.	56	18.	14	20.	20.	32.	35.	46.	72.	316
0820109163	87.	116	45.	54	25.	17	23.	21.	20.	30.	29	53.	315
0830109163	75.	118.	38	44.	19.	19.	15.	19.	32.	20	26.	59	318
02306000010126000	110	145.	50.	55	20	20.	30	35.	40	40.	45	70.	344
0020126000	90	90.	50.	55.	40	10.	10.	20.	40.	40	60	90	324
02401000710109104	66.	56	30	41	13.	13	33.	31.	37	28	29	40	342
0720109141	34.	34	14.	18	13.	15.	13.	14.	13	13.	20.	41	335
02402000540109163	77.	123	36.	40.	27.	22.	19.	23.	32.	42	44	61	343
02403000010110160	80	115	60	60.	35.	40.	35.	50.	60.	40.	70.	90.	307
0220110164	70	85.	40.	50.	40.	30.	30.	30.	40.	30.	50	75.	334
02404000010106164	94	114.	58	53	39.	28	32	31	43	60	55.	126	355
02405000060112000	40	82	25.	45	21	11.	8.	21	26	24	20.	71	353
0070112000	65	85	33.	15	33	32	24.	48	39	45	59	98	361
0080112000	79	135	44	43	23	17	16.	25.	30.	27.	32	77	352
02406001100110111	80.	120.	50.	55.	40.	40.	40.	35.	40.	50.	60.	60.	308
1110110144	80.	100.	40.	60.	30.	30.	30.	40.	40	30.	40.	70.	325
1120126000	120.	120.	110.	45	30	20.	20.	30.	30.	30.	50.	90.	290
02407000310109164	73.	67	27.	33	20	15	19	19.	24.	30.	28.	72.	298
02408000010106000	104	173	83	72	71	68	34	22	38.	43.	38	104	362
0020106162	94.	165.	69	26	25	24	21.	23	33	51.	53.	134	355
02409000640109164	70.	85	38.	37.	22.	20	21.	25.	26	25.	22.	47.	310
0650109000	56.	67	25.	31	16.	17	18.	19.	19.	27.	36.	87	334

Annual Report 81

Monthly medians

Pollutant 1: SO₂ (column caption: see A1.1)

Station code PPCVVESSSPLTMSIT	Values in $\mu\text{g}/\text{m}^3$												cas no
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
06514000010124141	312	182.	156.	---	---	---	---	---	---	61.	218.	244.	125
08301005150102110	23.	47.	14.	12.	19.	12.	16.	20.	26	24.	21.	---	280
5160102110	20.	24.	17.	9.	22.	12.	14.	13.	22.	25.	22.	33	251
5180102160	28.	57.	20.	21.	24.	12.	12.	11.	24.	26.	19.	39	303
5190102160	20.	33.	16.	14.	19.	12.	14.	12.	23.	22.	17.	35	292
5200102160	32.	50.	25.	10.	21.	10.	14.	8.	26	25.	32.	39.	291
5210102160	35.	52.	19.	19.	22.	12.	14.	15.	20.	25.	25.	43	299
5220102000	---	---	---	---	---	---	---	---	---	---	---	---	0
5230102160	32.	47.	20.	15.	26.	13.	13.	17.	20	24.	19.	34	283
5250102160	37.	51.	24.	16.	17.	13.	14.	12.	19	22.	26.	45	301
08302004040102160	25	38.	32.	15	30.	10.	5.	5.	28.	30	24.	47	323
4050102160	17.	25.	23.	16.	33	17.	19.	13.	31	33.	17	33.	347
08303004180102160	58	63.	47.	28	31	29.	36.	19.	35.	41	37	59.	348
4230102160	47	38.	24	27.	22.	13	23.	21.	23	32	32.	59.	345
08401008140102160	36.	33	17.	13.	21.	11.	11	6	22.	27	20.	41.	335
08402009080102160	13	16.	14.	8.	15	6.	8	3.	12.	20.	13.	11.	335
9090102160	14.	21	14.	15.	12	8.	7	5.	13.	15	13.	18.	344
08403002130102160	39.	56.	33.	27.	30.	24.	34.	32.	33.	39.	33.	61.	304
2140102160	23.	33.	22.	16.	14.	13.	19.	15.	21.	27.	22.	50	311
08404006070102110	15.	45.	26.	10.	21.	10	15.	6.	13.	19.	16.	39.	294
6100102160	22.	42	25.	20.	25	20	19.	8.	21.	28	25.	41.	320
08501005280102160	38.	43.	21.	11.	17.	13.	16.	7.	17.	20.	16.	37.	273
08502002040102160	37.	47.	29	19.	24.	17.	19.	21.	32.	41.	35.	64	300
08503005300102160	27.	29.	23.	19.	20.	16.	16.	14.	22	24.	20.	32	307
08504001210102160	38	47.	20.	18.	17.	14.	11.	22.	21.	26.	35.	53	337
08505003040102160	25	46.	18.	28.	24.	14	14.	17	24	21.	17	34.	354
08506008060102160	30.	30	22.	11	25	9.	14.	7	24.	27	20.	28.	346
08699001240102300	40.	50.	23.	21	12.	14	13	21.	15.	17	25.	31	335
2060102300	17	31	11.	10.	7.	9.	17.	14.	15.	19.	22.	43.	293
3120102300	20.	17.	11.	18.	27.	16	15.	16	22.	34.	22	59.	333
5010102300	12.	16.	7.	5.	11.	4.	7.	3.	14.	12.	5.	16	266
6170102000	7	14.	12.	---	---	6.	7.	9.	14.	11.	8	19	241
8150102300	28.	19	16	8.	18.	8	10.	6	12.	15.	12.	30	346
9010102300	8.	10	9.	5.	10	3	6	2.	10.	10	6.	15.	346

Annual Report 81

Monthly medians
Pollutant 2: Smoke (column caption: see A1.1)

Station code PPCVVEESSPLTMSIT	Values in $\mu\text{g}/\text{m}^3$												cas no
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
01201000010203163	18	37	21	25	16	13	11	18	25	29	26	45.	363
0020203000	24	30	16.	19	15	13	11	19	16	20	19	28.	361
0080203152	12	18	10	14	12	10	8	16	14	12	12	26.	363
0140203121	11	16	6	9	6	8	6	11	8	6	9	6.	356
0170203000	16	22	12	13	10	10	8	17	14	11	16	16.	363
0220203153	11	15	5	6	4	5	5	6	13	16	25	32.	363
0260203163	20	30	11	16.	--.	10.	8	15	17	10	14	26	321
01301008010203154	21	25	15	13.	10	10	9	11	16	11	8	17	361
8090203144	53	51.	45	33	31	24	25	29	37	38	28	35	351
8120203142	14	25.	11	16	12	6	4	11	13	11	7	15	351
8130203143	17	22.	11	20	12	8	9	15	20	15	9	25	351
8180203114	18	28	18	14	12	10	9	13	13	13	11	23	365
8260203112	13	23	7	11.	9	7	4	7	9	9	8	14	364
01401005010203144	6.	12.	14	20	12	9	9	17	26	19.	19.	16	337
5040203152	7	14	12	30	10	11	9	16	11	12.	14.	16	351
5050203154	14	15	17	27	17	17	17	27	21.	19.	19	25	351
5090203152	16	16	10	16	12	10	12	12	11	7	8	9	365
5130203162	12	16	9	17	10	7	7	16	14	9.	14	17	363
5140203162	12	16	14	19	10	12	9	19	15	10	18	21	365
01402007010203114	20	26	12	11	14	3.	10.	12.	17	14	16	28	349
7060203112	10	13	8	9	8	3.	9.	14.	12	10	10	8	337
7070203143	26	43	12	23.	22.	9	12.	24	23	22	20	42	351
7090203143	22	21	14	15	14	8	12.	16	15	16	14	12	357
7120203144	14	24	8	8	14	5	8.	10	14	12	16	24	357
7150203113	14	16	12	7	10	5.	8.	12.	14	10	12	18	349
01403002020203142	16.	73.	53.	18	8	20	14	21.	23.	--.	24.	29.	167
2050203143	18.	29.	14	11	10.	18.	9.	11	11	14	10.	10.	299
2150203154	18.	34.	12.	20.	16.	12.	6.	6.	--.	--.	6.	8.	151
2180203153	12.	11.	12	11.	--.	--.	--.	--.	--.	--.	--.	--.	96
2290203154	24.	40.	20	28	12.	17.	14	28	25	19	19	20	337
2300203142	16.	19.	12	10	9.	5.	10	14	8	14	13	16	353
01501006050203141	14.	14	6.	4.	10	8.	7.	10	12	12	12	20	335
01502006020203163	--.	--.	--.	--.	--.	--.	--.	--.	--.	--.	--.	--.	0
6030203123	21	30	16	15	12	9	10	17	19	20	24	40	365
01503003020203241	7.	11	5	7	3	3	3	4.	5	5.	7.	8.	335
01504004040203163	25.	38	8	12	9	14	6	16	23.	25	29.	14	356
4050203144	27	66.	16	21	14	16	27	21	27	25	34.	27	356
4110203000	53	66	33	35	29	43	26	33	55.	44	38.	43	362
03201001020202164	26	22	26	22	23	18	17	26	29	27	19	27	365
3300202162	11	9	8	11	8.	7	4	9	14.	11.	9	12.	339
3310202163	14.	11	8	7	6	6.	5.	12	14	9.	8.	--.	285
3340202113	15	15	14	12	11	7	5	8	16	12	5	14	365
3350202162	20	16	25	17	25	12	9	16	26	25	15	34	365
04101000110210172	43	63	26	33	17	15	13.	26.	28.	32	44	43.	357
0170210143	45	51	27	31	21	18	39.	29.	26	31	41.	43.	338
0490210144	45	60	29	35	21	20	20.	31.	35.	38	46	42	360
0650210173	39.	50	29	36.	19	17	18	29	34.	40	44	--.	329

Annual Report 81

Monthly medians

Pollutant 2: Smoke (column caption: see A1.1)

Station code	Values in $\mu\text{g}/\text{m}^3$												cas no
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
04101000970210163	47	60	38	40	33	26	26	33	41.	40.	49.	46.	360
04202000010210164	67.	74.	76.	81.	47.	50.	53.	---	63.	75.	74.	66.	215
0080210162	34.	36.	21.	23.	16.	22.	15.	---	17.	14.	30.	18.	205
0120210114	83.	74	64	49.	---	32.	42.	---	37.	40	74	89.	240
0180210114	126.	103	89.	---	---	19.	63.	---	48.	69.	113	41.	177
04302000120210163	24.	37	20	23	19	15	13	16	19	25	25	42	364
0150210114	21.	21.	21	25	23	15	15	21.	24	26	25.	47.	350
0190210112	21.	29	14	19.	13.	10	10.	16	16	20	22	27	350
0230210113	22.	33	20	23.	16.	10	10	13.	16.	23	29	26	357
04401000010210144	11	15	7	9	6	6	7	9	10	9.	23	7	345
0020210114	22	20	7	10	6	7	6	9	17	14	13.	9	344
0040210143	9	10	4	7	4	5	4	5	6	4	11	4.	360
0080210113	7	9	4	5	2	4	4	5	5.	2	2	2	362
0320210144	30	33	23	23	23	19	25	20	27	23	22	16	365
0330210153	25	20	14	19	13	15	11	16	25	17	30	13	365
05301000020204164	53	27	36	28	13	15	12.	20	19.	40.	33.	67	358
0030204162	38.	90.	48	---	---	---	---	---	---	---	---	---	83
0070204111	20	34	19	22	15.	7	6	6	16.	35	37	78	363
0100204142	24	36.	24	13	20	8	9	9	20	33	37	72	362
1030204000	45.	106.	56	45	25	13	11	14	22	59.	45	92	357
05501000010206122	21	22.	21	22	8.	6.	5.	5.	11	20	26	48.	336
07501003520201123	---	---	---	---	---	---	---	---	---	---	---	---	0
3530201143	---	---	---	8	8.	---	9.	13	14	14	13	9	212
07502003550201151	---	---	---	12	10	5	3.	5.	8	20	21	31.	230
07503003600201242	---	---	---	17	19	16	11	16	17	13	18	14	275
09101000150207152	32	20	15.	28	19	29	21	20	12	17	22	17.	353
1060207240	13	23	6	11.	5	6	6	13	8	8	9	20	363
2030207172	---	---	40.	78.	8.	12.	10.	14.	7	9	11	19.	226
3040207160	25	27	16	11	12	8	10	18	17	18	22	22.	362
4040207212	18	17	11	6.	9.	---	---	9.	12	10	11	11	267
5050207170	24.	23.	12.	---	---	---	---	21.	13.	16.	18.	26.	183
09102001110207124	29.	31.	20.	19.	19.	11.	11.	16.	22.	29.	22.	51.	259
1150207154	27.	22.	13.	15.	13.	10.	11.	14.	---	---	19.	42.	202
2130207150	38.	27.	20.	24.	14.	11.	13.	19.	19.	20.	24.	40.	250
3100207174	33.	22.	16.	21.	11.	6.	11.	8.	11.	15.	17.	17.	234
09103000190207133	19	18	8.	10	9	12.	12	19	12	15	18.	23.	352
1100207140	13.	14	6	10	6	6.	5	9	5	8	11	26	347
2090207260	12	14	6	6	5	5	6	12	5	6	9	32	365
3170207150	27.	30.	22	20.	22.	15.	10	24	30.	37.	34	57.	340
3180207160	29	26	18	17	14	11	11	16.	16	24	24	49	364
4130207150	29.	30.	22.	22.	22.	19.	18.	19.	25.	24.	32.	58.	229
09201000200207120	22	31	37	22	12	14	14	10	15	19	11	53	365
0610207240	10	19	15.	17	11.	---	---	---	---	---	---	---	139
0680207150	17	23	22	22	13	8	8	8	12	13	10	78	365
0730207150	11	19	19	12	9	6	6	7	7	8	3	57	365
09202001020207150	---	---	---	---	---	---	---	---	---	---	---	---	0
2080207210	12.	21	9.	11.	9	2.	3	7.	7.	7	4	22	344

Annual Report 81

Monthly medians

Pollutant 3: SPM (column caption: see A1.1)

Station code	Values in $\mu\text{g}/\text{m}^3$												cas no
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
02201000080302000	25.	47.	28	42.	23	28	35.	81.	69	47	96.	64.	286
0100302000	45.	73.	43.	63.	41.	51.	53.	58.	67.	66.	92.	81	333
0140302000	27.	---	39.	50.	30.	30.	32	38.	36.	25.	34.	32.	301
0150302000	43.	69.	44.	73.	37.	48.	39.	54.	51.	26.	43	39	317
0160302000	20.	51.	29	46.	26	28	26	39	38	22	29.	30.	347
02301000010303110	73.	100.	53.	74.	59.	74.	65.	98.	98.	44.	69.	78.	151
02302000010303110	96.	95.	49.	158.	63.	91.	62.	119.	96.	69.	65.	81.	95
02303000020303160	74.	69.	44.	89.	51.	63.	69.	123.	70.	40.	45.	53.	96
02304000010302000	104.	103	58	92.	67	63	46	59.	64.	49	48	55	348
0050305160	---	---	27.	26	21	22	19.	23.	29.	---	17.	31.	216
02305000810306163	61.	87.	60.	62.	36.	41	55.	61.	60.	48.	55.	45	319
0820306163	31.	46	35.	35	20.	27	36	42.	35.	27.	31.	19.	314
02306000010326000	6	35.	8.	14	7	9.	10.	18	10	6	10	6.	318
0020326000	21	38.	15.	26.	9	10.	13.	23	17.	9	15	14	337
02401000710306104	36.	53.	40	49	33	35.	43.	47.	48	28.	34	32	355
02402000540306163	38.	54.	26	39	26.	20.	29.	34.	45.	44.	43.	44.	322
02403000010326160	26	38	16	28	12.	30.	19.	31	26.	14	18	20.	349
0220326164	33	56.	19.	42	20.	25.	30.	43	29.	21	29	22.	342
02404000010302000	70.	102.	78	105.	60.	51	37.	---	---	---	---	---	179
02405000060325000	24.	51	23.	54.	33	35.	41.	50.	71.	31.	27.	33.	338
0070325000	36	87	26.	87.	40.	33.	36.	88.	78.	39.	31.	41.	331
0080325000	43.	104.	79.	83.	65.	35.	46.	49.	74.	41.	33.	33.	295
02406001100326111	19	32.	12.	11.	5.	6.	5.	9.	6	---	7.	15	313
1110326144	26.	40.	15.	29	16	15.	17.	22.	19	13.	25.	30	349
1120326000	26	29.	18.	22.	14.	17.	18.	24.	20	14.	16.	24	315
02407000310306164	36.	67.	37	44	30	31	34.	47.	57.	30.	33.	25.	323
02408000010302000	64.	63	36.	30.	34	38.	43.	61	48.	44.	45	74	316
0020302000	42	57	31	38	27	28	22	36.	32	30	28.	36.	352
02409000640306164	30.	55	22.	33.	15.	23.	24.	34.	53.	29.	25.	40.	302
02410000110306143	26.	60.	32.	45	30.	29.	30.	48.	44.	21	34	38	345
02411000850306163	83.	87	74	59.	34.	39.	42	53	46	36	39	45	357
02412000030325000	24.	55.	28.	38.	23	25.	25.	40.	41.	21.	18	32	331
0040325000	40.	86.	48.	66.	44	53.	43	85.	82.	38.	40.	55.	331
0050325000	32.	85	32.	68.	31	35.	33.	62.	65.	31.	24.	36	328
02413000010326000	11.	12.	5.	10.	5	6.	2	2.	4	3	4.	5.	307
02502000910306163	35.	63.	45.	57.	32.	28.	33.	39	34	26.	30.	34	336
02503000010326000	31.	36.	10.	28	12.	16.	19	30.	22.	13	21.	26	326
02504000010326000	48.	57.	26.	37.	20.	20.	19.	24.	24	13	16.	25	337
02505000010325000	39.	63.	27.	45.	25.	27.	26.	46.	52.	24.	9.	8	335
02699000020308000	29	67.	25	51	27	31	30	39	37	19	25	20.	353
0030308000	28	74	31	65.	24.	36	35	47.	46	28	29	40	362
0040308000	24	46	21	47	21	31	27.	47	32	20.	25	26	362
0050308000	33	55	39	52	44	42.	47	40.	41	34.	26	54	361
0060308000	---	---	---	51	26	34	30	48	33	19	21	16	275
0070308000	7	20.	10	49	15	24	21	39.	20.	10.	14	7.	354
0080308000	26	37.	33	41	37	34	25.	35.	51	29.	22	49	353
0090308000	35.	36	39	64	59.	34	32.	39.	55	33.	23	47.	347



Annual Report 81

Monthly medians

Pollutant 4: Acid (column caption: see A1.1)

Station code PPCVVESSSPLTMSIT	Values in $\mu\text{g}/\text{m}^3$												cas no
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
01201000010403163	117	132.	86	78	48	35	30	51	54	94	108	130.	362
0020403000	82	102.	45.	66	43	32	20	37	43	49	54	87.	360
0080403152	39	59	22.	46	19	31	17	30	32	28	30	53.	359
0140403121	31	38.	18	25	18	14	16	21	13	14	21	17.	355
0170403000	60	77	26	47	31	31	25	44	31	38	49	71.	363
0220403153	44	52	21	24	14	25	15	12	19	27	41	76.	363
0260403163	59	79	31	57.	---	28.	26	32	29	18	27	47	321
01301008010403154	56	87	73	50.	57	71	51	64	62	90	90	91	361
8090403144	107	137.	81	54	64	49	62	52	62	90	98	116	351
8120403142	54	77.	51	40	41	37	32	44	47	54	47	78	351
8130403143	75	89.	63	46	52	34	44	43	64	76	90	97	351
8180403114	96	110	82	40	66	57	70	48	80	91	100	112	365
8260403112	28	54	44	55.	109	72	87	48	123	115	77	106	364
01401005010403144	10.	39.	23	40	26	25	28	35	32	29.	40.	38	337
5040403152	43	72	30	37	26	23	21	21	27	28.	39.	46	351
5050403154	26	94	35	46	31	32	33	36	32.	46.	43	68	351
5090403152	68	68	33	43	51	50	46	54	67	74	67	78	365
5130403162	53	88	30	46	30	28	25	38	30	15.	26	56	356
5140403162	69	82	51	44	38	40	43	30	40	40	49	74	365
01402007010403114	90	79	56	79	45	60.	49.	53.	38	38	52	75	343
7060403112	41	58	34	64	38	64.	79.	49.	43	71	45	60	332
7070403143	45	77	45	53.	49.	34	48.	75	47	64	45	60	347
7090403143	64	93	49	66	56	60	75.	98	58	68	53	60	353
7120403144	49	109	71	77	45	41	54.	81	73	79	56	75	352
7150403113	68	86	71	68	49	83.	93.	56.	54	75	63	60	345
01403002020403142	97.	208.	128.	78	46	74	59.	90.	87.	---	82.	94.	165
2050403143	103.	144.	71	54	70.	66.	47.	70	94	64	57.	91.	299
2150403154	96.	130.	78.	34.	60.	69.	46.	52.	---	---	63.	63.	150
2180403153	76.	93.	77	51.	---	---	---	---	---	---	---	---	97
2290403154	105.	143	81.	80	68.	68.	62	66	93	75	80	107	337
2300403142	74.	87.	54	41	53.	46.	30	54	58	59	57	88	352
01501006050403141	56.	53	35.	25.	32	26.	39.	38	39	49	38	84	335
01502006020403163	---	---	---	---	---	---	---	---	---	---	---	---	0
6030403123	73	103	43	56	27	26	14	14	23	46	52	94	365
01503003020403241	38.	54	25.	26	21	33	15	29.	23	18.	26.	39.	334
01504004040403163	53.	60	33	46	28	35	32	20	27.	30	33.	30	356
4050403144	49	63.	43	48	30	32	23	20.	34	28	45.	66	355
4110403000	51	78	49.	58.	51	77	49	26	30.	42	52.	73	359
04101000110408172	114	104.	40.	52.	37.	33.	31.	49.	46.	41.	69	85	346
0170408143	146	172.	63	76.	55	38.	41.	82.	44.	54.	104.	122	329
0490408144	109.	125.	53.	66	36.	29.	28	49.	36.	42	74.	101	352
0650408173	113.	177.	51	85.	46	42	43	69	52.	44.	93	---	326
0970408163	96	123	45	54	33.	44	31.	42.	41	35.	71	83	358
04202000010408164	92.	131.	75.	67.	54.	55.	50.	---	45.	54.	80.	71.	206
0080408162	49.	60.	37.	24.	26.	27.	28.	---	20.	32.	25.	31.	197
0120408114	56.	52	22.	23.	---	20.	28.	---	29.	24.	44.	48.	184
0180408114	142.	122	82.	---	---	52.	48.	---	25.	56.	95	56.	178

Annual Report 81

Monthly medians

Pollutant 4: Acid (column caption: see A1.1)

Station code	Values in $\mu\text{g}/\text{m}^3$												cas no
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
04302000120408163	73.	77	26	50	29	32	28	41	29	50	61	91	364
0150408114	46.	61	17	39.	25	19	31	16.	29	41	62.	91.	357
0190408112	45.	63	13	37.	22.	19.	17.	18	17	28	43	63	347
0230408113	105.	83	30	51.	51.	37	35	40.	51	62	78	95	350
04401000010408144	51	55	35	32	23	15	21	27	29	23.	39	25	346
0020408114	52	47	29	29	25	21	35	37	33	23	32.	29	344
0040408143	56	37	23	31	19	25	29	35	32	24	51	32.	360
0080408113	31	32	28	35	33	53	56	68	51.	28	44	28	362
0320408144	66.	64.	42	11	8	12.	11	13.	22	0	2.	35.	309
0330408153	32	43	20	0	7	8	0	11	9	4.	25.	69.	340
04402000120411161	16.	66	5	23.	14.	8	1	31	0	2	5	25.	351
0210411212	78.	92	5	111.	21.	56	33	70	10	17	30.	62	357
0290411213	39.	43	20	21.	15.	23	31.	35	9	17	18	28	356
0310411162	31.	57.	23.	38.	30	14	7	71.	21	9	18	69	353
0320411113	54.	89	131	35.	102	25	49	106.	185	54	56	67	362
0430411163	44.	44.	23.	46.	65	14	13	65.	26.	27	27	56	354
04404000010411164	35.	48.	28	24	17	14	16.	22	17	15	41	46.	350
0040411163	77	78.	47	49.	31	16	23.	15	30	53.	97	107	353
0060411163	87	76.	34	34	26	17	21.	27	18	25	47	63.	354
0070411112	58	77.	60	41	15	32.	24.	28	63	51	121	95	353
0080411113	24	67.	12	50	13	9	7.	32	4	6.	29.	28	355
0110411112	125	108.	82	61.	53	56.	97.	72	66	114	139	109	352
04501000250408112	7	24	3	44	6	0	0	0	0	0	0	2.	358
0260408112	33	33	12	9	3	1	0	2	8	5	9	11	365
0310408112	15	25	7.	6	4	11	13.	--.	9.	21	35.	46	326
05301000020404164	50	60	93	99.	97	91	87	103	84	102.	93.	90	360
0030404162	84.	84.	64	--.	--.	--.	--.	--.	--.	--.	--.	--.	83
0070404111	29	39	27	40	55.	40	41	51	37	40	52.	61	362
0100404142	22.	29.	56	48	60	56	56	64	48	31	38	62	360
1030404000	84.	84.	64	72	84	69	60	60	49	57.	63	77	357
05501000010406122	12	17.	6	12	6	11	6	6	11	11	11	24.	343
07501003520401123	--.	--.	--.	--.	--.	--.	--.	--.	--.	--.	--.	--.	0
3530401143	--.	--.	--.	40	39.	--.	21.	23	50	96	70	45	212
07502003550401151	--.	--.	--.	23	21	21	24.	18.	43	78	55	57.	230
07503003600401242	--.	--.	--.	31	23	15	21	25	20	62	50	35	275
09101000150407152	87	78	37.	37	38	46	33.	54.	48.	28	28	36.	334
1060407240	34	68	40	64.	40	42	43	54	41	31	30	55	363
2030407172	--.	--.	61.	78.	34.	36.	46.	79.	44	45	57	97.	222
3040407160	84	94	48	48	55	37	43	50	37	44	56	83.	362
4040407212	101	106	91	66.	48.	--.	--.	42.	43	56	67	59	267
5050407170	104.	103.	58.	--.	--.	--.	--.	107.	76.	82	87.	108.	181
09102001110407124	106.	126.	74.	90.	74.	45.	47.	73.	68.	96.	90.	173.	262
1150407154	104.	108.	83.	67.	68.	55.	51.	79.	--.	--.	98.	129.	204
2130407150	96.	103.	75.	88.	57.	39.	36.	57.	48.	64.	67.	153.	250
3100407174	75.	60.	55.	60.	45.	38.	37.	45.	45.	30.	45.	75.	234
09103000190407133	78	78	82.	77	49	48.	48	63	56	65	55.	110.	351
1100407140	36.	64	35	64	35	31	28.	35	17	29	37	88	348

Annual Report 81

Monthly medians

Pollutant 4: Acid (column caption: see A1.1)

Station code	Values in $\mu\text{g}/\text{m}^3$												cas no
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
PPCVVEESSSPLTMSIT													
09103002090407260	21	45	49	84	15	0	57	67	22	15	26	55	365
3170407150	49.	71.	62	76.	56.	55.	44	60	63.	73.	68	115.	341
3180407160	53	43	40	66	39	33	26	33.	33	53	50	76	363
4130407150	44.	59.	42.	84.	41.	26.	24.	29.	21.	43.	43.	50.	229
09201000200407120	43	82	69	68	51	55	48	41	35	73	49	137	365
0610407240	25	43	43.	37	31.	---	---	---	---	---	---	---	139
0680407150	44	67	59	52	45	51	37	59	44	52	46	110	365
0730407150	30	42	38	38	29	33	29	32	24	35	37	89	365
09202001020407150	---	---	---	---	---	---	---	---	---	---	---	---	0
2080407210	15.	49	16.	73.	27	40	32	54.	16.	26	26	63	345
3220407150	58	100	53	77	52	34.	35	40	46	46	40	106	364
4040407140	25.	77.	39.	70.	57.	31.	26.	33.	45.	34.	32.	88.	244
4060407150	63.	101.	86.	110.	99.	48.	47.	60.	69.	61.	56.	112.	238
09301000180407160	76.	106.	61	36.	67.	34	34	28	51	56	64	86	337
0300407140	30	54	48	36	54	36	30	30	42	37	39	43	365
0310407170	---	---	---	---	---	---	---	---	---	---	---	---	0
0350407150	---	---	---	---	---	---	---	---	---	---	---	---	0
09302000400407140	57.	99.	57.	83.	68.	52.	52.	66.	70.	67.	72.	113.	202
0480407112	48.	65.	43.	41.	55.	35.	37.	37.	40.	47.	67.	115.	224
09303000010407151	22.	45	32	43	38	16	16	16.	27	22	65.	---	299
1310407110	61	48	50	59	50	21.	39.	35	35	36	50	79	362
2060407160	59.	62.	46.	34.	45.	30.	27.	26.	30.	26.	28.	31.	259
3040407160	30.	41.	24.	18.	24.	18.	18.	16.	18.	18.	19.	17.	258
09401000110407130	19.	47.	34.	45.	34.	29.	25.	27.	32.	40.	41.	48.	259
0150407140	11.	20.	16.	22.	16.	17.	17.	18.	20.	24.	22.	27.	258
0330407150	22.	24.	29.	33.	31.	32.	27.	27.	31.	43.	42.	43.	257
09402000090407174	42.	62.	33.	46.	33	49	53	66	34	54	59	83	316
0100407150	46.	47	22	36	36	35	28.	---	39.	36	45	49	323
0110407241	24	24	17	24	25	25	20	26	18	18	18	25	365
0120407143	48.	59.	40.	48.	36.	26.	26.	35.	30.	32.	43.	73.	245
09403000120407150	45.	45.	39.	40.	49.	28.	10.	11.	13.	31.	32.	73.	258
0170407240	28.	36.	23.	23.	34.	18.	10.	6.	11.	16.	17.	42.	258
0200407160	48.	48.	36.	33.	43.	18.	12.	18.	18.	42.	39.	85.	258
09404000050407241	47	44	28	39.	29	21.	28	26.	34	34	27	27	358
0080407240	65	43	33	40.	29.	28.	31	48	42	39	47	58	341
09405000090407154	46.	51.	30.	54.	45.	42.	35.	27.	30.	52.	37.	71.	265
1140407240	17.	28.	24.	17.	17.	11.	9.	11.	22.	28.	13.	17.	261
2010407242	15	16	23	15	15	15	16	23	24	13	12	17	365
2290407150	16.	16	22	14	15	15	15	22.	23	22	22	38	362
3060407150	34	29	34.	---	---	13.	19	13	26	24	24	35	287
3100407160	36	32	34	36	14	15	14	14	29	22	23	21	365
09501000090407150	82	96.	97.	89	75	77	77	77	64	93	87	131	363
09502000020407140	32.	49.	31.	28.	30.	29.	23.	33.	28.	36.	29.	49.	255
09503000050407150	81.	77.	58.	70.	91.	55.	40.	36.	44.	40.	36.	74.	234
09505000050407170	71.	52.	30.	23.	25.	33.	30.	41.	35.	59.	64.	85.	247
0110407140	82.	50.	29.	34.	22.	29.	32.	52.	30.	52.	64.	92.	228
0150407240	98.	34.	35.	28.	23.	24.	46.	43.	41.	42.	61.	44.	203

TECHNICAL NOTE TO ANNEX TO THE ANNUAL REPORT 81

Annex II shows abnormally high numbers of spaces in the records of data transmitted by the Commission to the contractant. The counting of spaces has been executed on the part of the records containing the data aligned on the preferred number of decimals. As the use of spaces is reserved to the data fields corresponding to a non existing day (ex. 31 June), there should be no more than 7 spaces in the 81 annual series.

It appears that:

- errors during the capture of data transmitted on forms have lead to the introduction of some supernumerary spaces into the computer files (especially for France). Moreover the programmes dealing with the data storage in the computer files of the Commission did not detect the records containing supernumerary spaces. As a consequence, these records containing abnormal spaces were accepted and stored in the archives.
- prior to their introduction in the archives, the raw data are aligned by computer programmes. However, the months containing only BLANK labels did not undergo this procedure and, consequently, the fields foreseen for the aligned data have been left at spaces.

Both remarks explain the overestimation of spaces number presented in Annex II.

Annual Report 81

ANNUAL CHARACTERISTICS OF THE SERIES (year: 1981)

Annex 2: Global description

Column caption:

<u>Label</u>	<u>Explanation</u>
station code	PPCVVEESSSPLTMSIT: PP country code C town class code VV town code EE always zero SSS station code PL pollutant code TM measurement technique code SIT situation code
month	number of month recorded for the year
BLA	number of values labelled as "BLANK"
REP	number of values labelled as "REP"
spa	number of values labelled as space
ze	number of null values
>2000	number of values higher than 2000 $\mu\text{g}/\text{m}^3$
cas	number of cases reported for the year (measured values)
min	minimum concentration for the year ($\mu\text{g}/\text{m}^3$)
occ	occurrence of the minimum
med	median ($\mu\text{g}/\text{m}^3$)
gap	number of gaps between 1 and the median (for integer values)

Annual Report 81

dig symbol for the number of missing digits into the yearly series.
example:

a) 9: 9 digits are missing in the units
 b) 41: 4 digits are missing in the tens and 1 digit is missing in the units.

rej cde reject code for the series

<u>hierarchical condition</u>	<u>reject code</u>
no. of month < 12	1
no. of "BLANK" + space > 64	2
no. of val. with concentration > 2000 $\mu\text{g}/\text{m}^3$	3
no. of measured values < 240	4
no. of REP > 104	5
else	0

Caption of the special symbol used:

+ : non numeric code during the year 1980
 * : modification of the measurement technique between 1980 and 1981
 - : series with reject code 0 and a number of non-existent days higher than 7 (space).

Annual Report 81

Global description

Pollutant 1: SO₂ (column caption: see A2.1)

Station code	month	BLA	REP	spa	ze	>2000	cas	min	occ	med	gap	dig	rej
PPCVVEESSSPLTMSIT	no	no	no	no	no	no	no	val	no	val	no	nn	cde
02101000060103110	12	1	0	7	0	0	364	10	4	70	63	9	0
02101000080103113	12	1	0	7	0	0	364	10	7	60	54	9	0
02101000160103163	12	1	0	7	0	0	364	10	2	80	72	9	0
02101000180103163	12	1	0	7	0	0	364	10	6	70	63	9	0
02101000200103113	12	1	0	7	0	0	364	10	3	60	54	9	0
02101000280103113	12	1	0	7	1	0	364	10	2	60	54	9	0
02201000050104161	12	10	0	7	0	0	355	13	151	14	12	0	0
02201000070104163	12	27	0	7	0	0	338	13	91	17	12	10	0
02201000080104164	12	19	0	7	0	0	346	13	28	25	12	0	0
02201000100104000	12	23	0	7	0	0	342	13	6	29	12	0	0
02201000110104000	12	52	0	7	0	0	313	13	59	25	12	0	0
02201000120104000	12	19	0	7	0	0	346	13	53	21	12	0	0
02201000130104000	12	25	0	37	0	0	310	13	71	19	12	0	0-
02201000140104000	12	21	0	7	0	0	344	13	64	23	12	0	0
02201000150104000	12	47	0	7	0	0	318	13	31	28	12	0	0
02201000160104000	12	16	0	7	0	0	349	13	52	22	12	0	0
02301000020105160	3	0	0	3	0	0	90	20	1	100	91	9	1
02301000030105000	9	48	0	4	0	0	227	10	11	50	45	9	1
02302000020105160	3	0	0	3	0	0	90	20	2	110	100	9	1
02302000030105000	9	22	0	4	0	0	253	10	7	50	45	9	1
02303000010105160	12	74	0	7	0	0	291	10	3	80	72	9	2
02304000010106174	12	27	0	7	0	0	338	12	1	64	17	0	0
02304000030107000	9	68	0	5	0	0	206	4	1	31	3	0	1+
02304000050107160	12	41	0	7	0	0	324	10	1	61	17	0	0
023050000810109163	12	49	0	7	0	0	316	13	27	35	12	0	0
023050000820109163	12	50	0	7	0	0	315	13	23	34	12	0	0
023050000830109163	12	47	0	7	0	0	318	13	27	29	12	0	0
02306000010126000	12	21	0	7	3	0	344	10	30	40	36	9	0
02306000020126000	12	41	0	7	6	0	324	10	35	50	45	9	0
02401000710109104	12	23	0	7	0	0	342	13	43	31	12	0	0
02401000720109141	12	30	0	7	0	0	335	13	119	15	12	10	0
02402000540109163	12	22	0	7	0	0	343	13	13	38	12	0	0
02403000010110160	12	58	0	7	1	0	307	10	17	50	45	9	2
02403000220110164	12	31	0	7	0	0	334	10	20	40	36	9	0
02404000010106164	12	10	0	7	0	0	355	8	1	50	11	0	0
02405000060112000	12	12	0	7	0	0	353	6	13	26	5	0	0
02405000070112000	12	4	0	7	0	0	361	6	9	41	5	0	0
02405000080112000	12	13	0	7	0	0	352	6	8	32	5	0	0
02406001100110111	12	57	0	7	3	0	308	10	9	50	45	9	0
02406001110110144	12	40	0	7	0	0	325	10	22	40	36	9	0
02406001120126000	12	75	0	7	3	0	290	10	20	40	36	9	2
02407000310109164	12	67	0	7	0	0	298	13	31	26	12	0	2
02408000010106000	12	3	0	7	0	0	362	9	1	63	12	0	0
02408000020106162	12	10	0	7	0	0	355	7	2	41	7	0	0
02409000640109164	12	55	0	7	0	0	310	13	28	30	12	0	0
02409000650109000	12	31	0	7	0	0	334	13	16	26	12	0	0+
02410000110109143	12	20	0	7	0	0	345	13	31	28	12	0	0

Annual Report 81

Global description

Pollutant 1: SO₂ (column caption: see A2.1)

Station code	month	BLA	REP	spa	ze	>2000	cas	min	occ	med	gap	dig	rej
PPCVVEESSPLTMSIT	no	no	no	no	no	no	no	val	no	val	no	nn	cde
02411000850109163	12	34	0	7	0	0	331	13	9	45	13	0	0
02412000030112000	12	8	0	7	0	0	357	6	28	27	5	0	0
02412000040112000	12	17	0	7	0	0	348	6	17	32	5	0	0
02412000050112000	12	9	0	7	0	0	356	6	20	34	5	0	0
02413000010126000	12	81	0	7	61	0	284	10	76	20	18	9	2
02501000610109162	12	33	0	7	0	0	332	13	16	31	12	0	0
02502000910109163	12	16	0	7	0	0	349	13	9	31	12	0	0
02502000920109163	12	22	0	7	0	0	343	13	69	22	12	0	0
02503000010126000	12	74	0	7	6	0	291	10	20	40	36	9	2
02504000010126000	12	52	0	7	12	0	313	10	43	30	27	9	0
02699000010113301	12	11	0	7	71	0	354	1	44	3	0	30	0
02699000020113000	12	3	0	7	73	0	362	1	61	3	0	10	0*
02699000030113000	12	6	0	7	9	0	359	1	32	8	0	0	0*
02699000040113000	12	1	0	7	0	0	364	1	2	10	0	0	0*
02699000050113000	12	21	0	7	11	0	344	1	14	8	0	0	0*
02699000060113000	12	1	0	7	65	0	364	1	33	4	0	20	0*
02699000070113000	12	48	0	7	68	0	317	1	37	3	0	50	0*
02699000080113000	12	17	0	7	62	0	348	1	32	4	0	20	0*
02699000090113000	12	2	0	7	3	0	363	1	16	12	0	0	0*
02699000100113000	12	14	0	7	7	0	351	1	17	14	0	0	0*
02699000120113000	12	8	0	7	8	0	357	1	15	12	0	0	0*
02699000130113000	12	7	0	7	68	0	358	1	50	4	0	0	0*
02699000140113000	12	12	0	7	71	0	353	1	49	3	0	30	0*
02699000150113000	12	23	0	7	5	0	342	1	13	11	0	0	0*
02699000160113000	12	4	0	7	6	0	361	1	14	12	0	10	0
02699000240110301	12	53	0	99	8	0	220	10	17	50	45	9	2
03201001020101164	12	0	0	7	0	0	365	3	1	18	2	10	0
03201003300101162	12	26	0	7	0	0	339	1	34	6	0	0	0
03201003310101163	11	49	0	7	0	0	285	1	27	12	0	10	1
03201003340101113	12	0	0	7	1	18	365	1	2	21	0	10	3
03201003350101162	12	0	0	7	0	0	365	3	2	18	2	0	0
06101000090120143	12	64	0	7	0	0	301	3	1	78	50	0	2
06101000110120143	12	72	0	7	0	0	293	3	2	109	71	0	2
06101000130120143	11	113	0	6	0	0	222	3	1	127	84	0	1
06101000140120143	12	67	0	7	2	0	298	5	2	57	36	0	2
06101000150120164	12	70	0	7	0	0	295	10	1	94	61	0	2
06101000160120163	12	52	0	7	1	0	313	10	3	104	68	0	0
06201000010122154	7	23	0	5	0	0	189	31	1	296	232	0	1
06201000020122144	7	40	0	5	0	0	172	39	1	283	229	0	1
06201000030122144	7	13	0	5	0	0	199	16	1	190	143	0	1
06302000010124100	1	12	0	0	0	0	19	13	2	26	24	66	1
06404000010121123	9	42	0	6	0	0	231	8	2	72	16	0	1
06404000020121113	9	19	0	6	0	0	254	16	2	91	31	0	1
06404000030121153	10	49	0	7	0	0	254	13	1	104	40	0	1
06408000010124163	10	236	0	37	7	0	37	3	4	13	8	20	1
06509000010124143	4	100	0	4	0	0	20	8	1	23	19	41	1
06514000010124141	6	57	0	4	0	0	125	34	1	229	192	0	1

Annual Report 81

Global description

Pollutant 1: SO₂ (column caption: see A2.1)

Station code	month	BLA	REP	spa	ze	>2000	cas	min	occ	med	gap	dig	rej
PPCVVEESSPLTMSIT	no	no	no	no	no	no	no	val	no	val	no	nn	cde
08301005150102110	12	54	0	38	0	0	280	2	1	20	3	10	2
08301005160102110	12	114	0	7	0	0	251	1	1	20	0	0	2
08301005180102160	12	62	0	7	0	0	303	3	4	22	3	0	2
08301005190102160	12	73	0	7	0	0	292	3	1	18	2	0	2
08301005200102160	12	74	0	7	4	0	291	1	4	22	0	0	2
08301005210102160	12	66	0	7	1	0	299	4	1	22	4	0	2
08301005220102000	12	0	0	372	0	0	0	0	0	0	0	0	4
08301005230102160	12	82	0	7	0	0	283	4	2	20	3	0	2
08301005250102160	12	64	0	7	0	0	301	2	1	21	3	0	2
08302004040102160	12	42	0	7	1	0	323	1	11	23	1	0	0
08302004050102160	12	18	0	7	0	0	347	2	1	22	1	0	0
08303004180102160	12	17	0	7	0	0	348	1	1	38	0	0	0
08303004230102160	12	20	0	7	0	0	345	3	1	26	2	0	0
08401008140102160	12	30	0	7	0	0	335	2	3	18	1	0	0
08402009080102160	12	30	0	7	5	0	335	1	12	11	0	0	0
08402009090102160	12	21	0	7	0	0	344	1	8	12	0	10	0
08403002130102160	12	61	0	7	0	0	304	4	1	34	6	0	2
08403002140102160	12	54	0	7	0	0	311	4	5	21	3	0	0
08404006070102110	12	71	0	7	0	0	294	1	1	16	0	0	2
08404006100102160	12	45	0	7	1	0	320	1	4	23	0	0	0
08501005280102160	12	92	0	7	0	0	273	1	1	18	1	10	2
08502002040102160	12	65	0	7	0	0	300	4	1	30	3	0	2
08503005300102160	12	58	0	7	0	0	307	3	1	21	2	0	2
08504001210102160	12	28	0	7	0	0	337	3	1	23	2	0	0
08505003040102160	12	11	0	7	0	0	354	2	5	21	1	0	0
08506008060102160	12	19	0	7	0	0	346	1	1	19	0	0	0
08699001240102300	12	30	0	7	0	0	335	3	1	20	2	0	0
08699002060102300	12	72	0	7	2	0	293	1	4	16	0	10	2
08699003120102300	12	32	0	7	1	0	333	1	4	19	0	0	0
08699005010102300	12	99	0	7	12	0	266	1	12	8	0	20	2
08699006170102000	12	63	0	68	7	0	241	1	11	9	0	20	2
08699008150102300	12	19	0	7	2	0	346	1	9	13	0	0	0
08699009010102300	12	19	0	7	19	0	346	1	24	7	0	10	0

Annual Report 81

Global description

Pollutant 2: **Smoke** (column caption: see A2.1)

Station code PPCVVEESSPLTMSIT	month no	BLA no	REP no	spa no	ze no	>2000 no	cas no	min val	occ no	med val	gap no	dig nn	rej cde
01201000010203163	12	2	0	7	0	0	363	3	1	21	2	0	0
01201000020203000	12	4	0	7	0	0	361	1	3	18	0	10	0
01201000080203152	12	2	0	7	0	0	363	2	7	12	4	30	0
01201000140203121	12	9	0	7	0	0	356	1	3	8	0	40	0
01201000170203000	12	2	0	7	0	0	363	1	3	13	1	20	0
01201000220203153	12	2	0	7	0	0	363	1	3	8	0	20	0
01201000260203163	12	13	0	38	0	0	321	1	2	14	0	10	0-
01301008010203154	12	4	0	7	0	0	361	1	7	13	2	10	0
01301008090203144	12	14	0	7	0	0	351	8	1	33	10	0	0
01301008120203142	12	14	0	7	0	0	351	1	5	11	1	10	0
01301008130203143	12	14	0	7	0	0	351	1	3	14	1	10	0
01301008180203114	12	0	0	7	0	0	365	1	2	14	1	0	0
01301008260203112	12	1	0	7	0	0	364	1	3	10	0	10	0
01401005010203144	12	28	0	7	0	0	337	3	4	14	6	30	0
01401005040203152	12	14	0	7	0	0	351	1	2	14	5	0	0
01401005050203154	12	14	0	7	0	0	351	1	1	19	7	10	0
01401005090203152	12	0	0	7	0	0	365	3	12	10	4	10	0
01401005130203162	12	2	0	7	0	0	363	3	25	12	5	20	0
01401005140203162	12	0	0	7	0	0	365	3	6	14	6	10	0
01402007010203114	12	16	0	7	0	0	349	2	22	14	6	0	0
01402007060203112	12	28	0	7	0	0	337	2	35	10	3	40	0
01402007070203143	12	14	0	7	0	0	351	2	14	22	9	0	0
01402007090203143	12	8	0	7	0	0	357	2	18	14	6	30	0
01402007120203144	12	8	0	7	0	0	357	2	26	12	5	20	0
01402007150203113	12	16	0	7	0	0	349	2	23	12	5	20	0
01403002020203142	12	167	0	38	0	0	167	2	4	17	5	0	2
01403002050203143	12	66	0	7	0	0	299	1	1	13	0	10	2
01403002150203154	12	153	0	68	0	0	151	1	3	12	1	20	2
01403002180203153	12	24	0	252	0	0	96	2	1	12	3	71	2
01403002290203154	12	28	0	7	0	0	337	1	3	19	2	0	0
01403002300203142	12	12	0	7	0	0	353	1	8	12	0	20	0
01501006050203141	12	30	0	7	0	0	335	1	1	10	0	30	0
01502006020203163	12	0	0	372	0	0	0	0	0	0	0	0	4
01502006030203123	12	0	0	7	0	0	365	1	1	18	0	20	0
01503003020203241	12	50	0	7	0	0	335	1	1	5	0	50	0
01504004040203163	12	9	0	7	0	0	356	1	2	16	0	10	0
01504004050203144	12	9	0	7	0	0	356	1	1	23	4	0	0
01504004110203000	12	3	0	7	0	0	362	3	1	38	6	0	0
03201001020202164	12	0	0	7	0	0	365	2	1	22	3	20	0
03201003300202162	12	26	0	7	0	0	339	1	11	9	0	20	0
03201003310202163	11	49	0	7	0	0	285	1	7	8	0	40	1
03201003340202113	12	0	0	7	0	0	365	1	12	10	0	10	0
03201003350202162	12	0	0	7	0	0	365	2	5	19	1	0	0
04101000110210172	12	2	6	7	0	0	357	5	1	31	4	0	0
04101000170210143	12	21	6	7	0	0	338	6	1	33	6	0	0
04101000490210144	12	2	3	7	0	0	360	6	1	34	5	0	0
04101000650210173	12	2	3	38	0	0	329	6	3	31	5	0	0-

Annual Report 81

Global description

Pollutant 2: Smoke (column caption: see A2.1)

Station code	month	BLA	REP	spa	ze	>2000	cas	min	occ	med	gap	dig	rej
PPCVVEESSPLTMSIT	no	no	no	no	no	no	no	val	no	val	no	nn	cde
04101000970210163	12	0	4	8	0	0	360	10	1	39	9	0	0-
04202000010210164	11	33	86	7	0	0	215	12	1	69	23	0	1
04202000080210162	11	39	90	7	0	0	205	4	1	21	4	10	1
04202000120210114	11	60	3	38	0	0	240	5	1	50	9	0	1
04202000180210114	11	96	0	68	0	0	177	5	1	79	30	0	1
04302000120210163	12	1	0	7	0	0	364	2	1	22	7	0	0
04302000150210114	12	15	0	7	0	0	350	1	2	23	0	10	0
04302000190210112	12	15	0	7	0	0	350	2	6	17	5	10	0
04302000230210113	12	7	0	8	0	0	357	2	2	19	5	10	0-
04401000010210144	12	20	0	7	0	0	345	1	4	9	2	10	0
04401000020210114	12	21	0	7	0	0	344	1	10	10	2	20	0
04401000040210143	12	5	0	7	0	0	360	1	38	5	1	50	0
04401000080210113	12	3	0	7	0	0	362	1	71	4	1	61	0
04401000320210144	12	0	0	7	0	0	365	2	1	23	7	10	0
04401000330210153	12	0	0	7	0	0	365	1	3	17	4	0	0
05301000020204164	12	7	0	7	0	0	358	1	1	24	4	0	0
05301000030204162	3	7	0	3	0	0	83	8	1	46	26	0	1
05301000070204111	12	2	0	7	0	0	363	1	5	19	3	0	0
05301000100204142	12	3	0	7	0	0	362	2	2	21	4	0	0
05301001030204000	12	8	0	7	0	0	357	2	1	35	7	0	0
05501000010206122	12	29	0	7	0	0	336	1	6	13	3	0	0
07501003520201123	9	0	0	279	0	0	0	0	0	0	0	0	1
07501003530201143	9	33	0	34	0	0	212	2	7	12	1	60	1
07502003550201151	9	45	0	4	0	0	230	1	4	11	0	60	1
07503003600201242	9	0	0	4	0	0	275	3	1	16	2	60	1
09101000150207152	12	12	0	7	0	0	353	3	7	21	4	10	0
09101001060207240	12	2	0	7	0	0	363	1	1	10	0	10	0
09101002030207172	12	48	32	66	0	0	226	1	1	12	0	10	2
09101003040207160	12	3	0	7	0	0	362	2	1	16	1	0	0
09101004040207212	12	37	0	68	0	0	267	1	2	11	0	20	2
09101005050207170	12	60	0	129	0	0	183	1	6	17	1	10	2
09102001110207124	12	3	103	7	0	0	259	4	1	21	3	10	0
09102001150207154	12	29	73	68	3	0	202	1	1	16	1	20	2
09102002130207150	12	21	94	7	0	0	250	3	1	20	4	10	0
091020035100207174	12	48	83	7	0	0	234	1	2	13	0	30	4
09103000190207133	12	13	0	7	0	0	352	1	2	13	0	0	0
09103001100207140	12	18	0	7	0	0	347	1	10	9	0	20	0
09103002090207260	12	0	0	7	0	0	365	1	23	9	1	10	0
09103003170207150	12	25	0	7	0	0	340	3	1	23	2	0	0
09103003180207160	12	1	0	7	0	0	364	2	2	18	2	0	0
09103004130207150	12	57	79	7	0	0	229	6	2	23	5	0	4
09201000200207120	12	0	0	7	0	0	365	3	16	18	3	0	0
09201000610207240	12	12	0	221	0	0	139	3	24	15	9	10	2
09201000680207150	12	0	0	7	0	0	365	4	66	13	8	0	0
09201000730207150	12	0	0	7	0	0	365	3	85	10	3	0	0
09202001020207150	3	0	0	93	0	0	0	0	0	0	0	0	1
09202002080207210	12	21	0	7	0	0	344	1	14	7	0	0	0

Annual Report 81

Global description

Pollutant 2: **Smoke** (column caption: see A2.1)

Station code	month	BLA	REP	spa	ze	>2000	cas	min	occ	med	gap	dig	rej
PPCVVEESSPLTMSIT	no	no	no	no	no	no	no	val	no	val	no	nn	cde
09202003220207150	12	0	0	7	0	0	365	3	3	23	12	0	0
09202004040207140	12	30	91	7	0	0	244	1	17	8	0	20	0
09202004060207150	12	35	92	7	0	0	238	1	1	12	0	10	4
09301000180207160	12	28	0	7	0	0	337	1	5	13	0	0	0
09301000300207140	12	0	0	7	0	0	365	1	16	8	0	10	0
09301000310207170	3	0	0	93	0	0	0	0	0	0	0	0	1
09301000350207150	3	0	0	93	0	0	0	0	0	0	0	0	1
09302000400207140	12	86	76	7	0	0	203	4	2	18	3	0	2
09302000480207112	12	57	84	7	0	0	224	7	1	28	6	0	4
09303000010207151	12	29	0	38	1	0	305	1	1	9	0	50	2
09303001310207110	12	0	0	7	0	0	365	2	3	14	1	10	0
09303002060207160	12	5	101	7	0	0	259	3	25	16	2	0	0
09303003040207160	12	8	99	7	0	0	258	1	1	7	0	20	0
09401000110207130	12	0	106	7	0	0	259	1	1	22	3	0	5
09401000150207140	12	0	106	7	0	0	259	3	3	22	3	0	5
09401000330207150	12	1	106	7	0	0	258	4	1	29	4	0	5
09402000090207174	12	47	0	7	0	0	318	3	38	15	8	0	0
09402000100207150	12	12	0	38	0	0	322	1	32	8	0	10	0-
09402000110207241	12	0	0	7	0	0	365	1	20	8	0	20	0
09402000120207143	12	31	90	7	0	0	244	1	1	15	0	10	0
09403000120207150	12	4	103	7	0	0	258	3	4	19	2	0	0
09403000170207240	12	5	103	7	0	0	257	1	1	17	0	0	0
09403000200207160	12	4	103	7	0	0	258	4	2	21	3	0	0
09404000050207241	12	2	0	7	0	0	363	1	1	5	0	40	0
09404000080207240	12	21	0	7	0	0	344	2	38	6	1	30	0
09405000090207154	12	0	100	7	0	0	265	2	2	8	1	30	0
09405001140207240	12	2	103	7	0	0	260	1	1	10	0	10	0
09405002010207242	12	0	0	7	0	0	365	1	7	8	0	20	0
09405002290207150	12	0	0	7	0	0	365	1	3	12	1	10	0
09405003060207150	12	16	0	68	0	0	288	2	6	14	1	30	2
09405003100207160	12	0	0	7	0	0	365	3	2	26	6	0	0
09501000090207150	12	2	0	7	0	0	363	8	2	38	18	0	0
09502000020207140	12	5	105	7	0	0	255	2	5	9	1	10	5
09505000050207150	12	35	89	7	0	0	241	1	3	16	0	0	0
09505000050207170	12	25	93	7	0	0	247	1	1	11	1	0	0
09505000110207140	12	48	89	7	0	0	228	2	2	19	1	0	4
09505000150207240	12	79	80	7	0	0	206	2	2	10	1	20	2
09699000010207301	12	8	0	7	0	0	357	1	189	1	0	50	0
09699001270207301	12	7	0	7	0	0	358	1	6	9	0	10	0
09699002010207301	12	0	0	7	0	0	365	1	125	2	0	60	0
09699003000207301	12	0	0	7	2	0	365	1	38	3	0	60	0
09699005010207301	12	1	1	7	37	0	363	1	113	2	0	70	0
09699006010207301	12	17	100	7	0	0	248	1	27	6	0	40	0
09699008010207301	12	14	0	38	0	0	320	1	78	4	0	40	0-
09699009010207301	12	0	0	38	0	0	334	1	248	1	0	96	0-

Annual Report 81

Global description

Pollutant 3: SPM (column caption: see A2.1)

Station code	month	BLA	REP	spa	ze	>2000	cas	min	occ	med	gap	dig	rej
PPCVVEESSSPLTMSIT	no	no	no	no	no	no	no	val	no	val	no	nn	cde
02201000080302000	12	79	0	7	0	0	286	1	1	40	6	0	2+*
02201000100302000	12	32	0	7	0	0	333	16	1	60	19	0	0
02201000140302000	12	36	0	35	0	0	301	9	3	32	8	0	2
02201000150302000	12	48	0	7	0	0	317	5	1	45	7	0	0
02201000160302000	12	18	0	7	0	0	347	5	1	31	4	0	0
02301000010303110	12	214	0	7	0	0	151	15	1	69	30	0	2
02302000010303110	12	270	0	7	0	0	95	16	1	74	44	0	2
02303000020303160	12	269	0	7	0	0	96	5	1	60	34	0	2
02304000010302000	12	17	0	7	0	0	348	15	1	61	24	0	0
02304000050305160	9	59	0	4	0	0	216	8	1	23	8	20	1
02305000810306163	12	46	0	7	0	0	319	15	2	53	19	0	0
02305000820306163	12	51	0	7	0	0	314	1	1	32	7	0	0
02306000010326000	12	47	0	7	11	0	318	1	7	10	0	0	0
02306000020326000	12	28	0	7	0	0	337	3	5	14	2	0	0
02401000710306104	12	10	0	7	0	0	355	11	1	40	10	0	0
02402000540306163	12	43	0	7	0	0	322	9	2	41	9	0	0
02403000010326160	12	16	0	7	0	0	349	6	1	21	5	10	0
02403000220326164	12	23	0	7	0	0	342	7	1	28	7	0	0
02404000010302000	12	33	0	160	0	0	179	25	2	66	29	0	2*
02405000060325000	12	27	0	7	0	0	338	2	2	36	2	0	0
02405000070325000	12	34	0	7	0	0	331	2	1	45	8	0	0
02405000080325000	12	70	0	7	0	0	295	4	1	49	7	0	2
02406001100326111	12	21	0	38	0	0	313	3	10	9	2	0	0-
02406001110326144	12	16	0	7	0	0	349	5	1	19	6	0	0
02406001120326000	12	50	0	7	0	0	315	4	1	18	5	10	0
02407000310306164	12	42	0	7	0	0	323	1	1	37	8	0	0
02408000010302000	12	49	0	7	0	0	316	9	1	46	8	0	0
02408000020302000	12	13	0	7	0	0	352	14	1	32	13	0	0*
02409000640306164	12	63	0	7	0	0	302	1	12	28	2	0	2
02410000110306143	12	20	0	7	0	0	345	5	1	35	5	0	0
02411000850306163	12	8	0	7	0	0	357	8	1	49	14	0	0
02412000030325000	12	34	0	7	0	0	331	5	1	30	4	0	0
02412000040325000	12	34	0	7	0	0	331	7	1	51	12	0	0
02412000050325000	12	37	0	7	0	0	328	1	1	36	6	0	0
02413000010326000	12	58	0	7	0	0	307	1	9	4	0	50	2
02502000910306163	12	29	0	7	0	0	336	3	1	36	8	0	0
02503000010326000	12	39	0	7	0	0	326	3	2	20	2	0	0
02504000010326000	12	28	0	7	0	0	337	2	4	23	3	0	0
02505000010325000	12	30	0	7	0	0	335	1	3	28	0	0	0
02699000020308000	12	12	0	7	0	0	353	5	2	31	6	0	0*
02699000030308000	12	3	0	7	0	0	362	6	2	37	7	0	0*
02699000040308000	12	3	0	7	0	0	362	6	1	28	6	0	0*
02699000050308000	12	4	0	7	0	0	361	6	1	41	7	0	0*
02699000060308000	9	0	0	4	0	0	275	2	1	29	2	10	1*
02699000070308000	12	11	0	7	0	0	354	1	1	17	0	0	0*
02699000080308000	12	12	0	7	0	0	353	4	1	34	5	0	0*
02699000090308000	12	18	0	7	0	0	347	5	1	38	6	0	0*

Annual Report 81

Global description

Pollutant 3: SPM (column caption: see A2.1)

Station code month BLA REP spa ze >2000 cas min occ med gap dig rej
 PPCVVEESSPLTMSIT no no no no no no no val no val no nn cde

02699000100308000	12	0	0	7	0	0	365	2	1	33	6	0	0*
02699000120308000	12	8	0	7	0	0	357	8	1	37	7	0	0*
02699000130308000	12	8	0	7	0	0	357	4	1	29	3	0	0*
02699000140308000	12	8	0	7	0	0	357	4	1	21	3	0	0*
02699000150308000	12	12	0	7	0	0	353	8	4	29	7	0	0*
02699000160308000	12	2	0	7	0	0	363	6	1	46	7	0	0
02699000240326000	12	61	0	99	0	0	212	3	1	25	3	10	2+
03201001020301164	12	0	0	7	0	0	365	6	1	24	5	0	0
03201003300301162	12	11	0	7	0	0	354	4	1	24	3	0	0
03201003310301163	11	65	0	7	0	0	269	1	1	23	3	10	1
03201003340301113	12	1	0	7	0	0	364	4	1	39	7	0	0
03201003350301162	12	6	0	7	0	0	359	3	2	21	2	10	0
06201000010315154	12	80	0	7	0	0	285	18	2	95	32	0	2
06201000020315144	12	36	0	7	0	0	329	47	1	191	94	0	0
06201000030315144	12	31	0	7	0	0	334	42	1	161	80	0	0
06201000040315154	12	110	0	7	0	0	255	30	1	183	98	0	2
06404000020315113	10	21	0	6	0	0	283	6	1	29	5	0	1
06404000030315153	11	20	0	7	0	0	314	4	1	39	5	0	1
06408000010315163	11	240	0	7	0	0	94	39	1	99	69	0	1
06509000010315143	4	69	0	4	0	0	51	2	1	8	1	70	1

Annual Report 81

Global description

Pollutant 4: Acid (column caption: see A2.1)

Station code	month	BLA	REP	spa	ze	>2000	cas	min	occ	med	gap	dig	rej
PPCVVEESSPLTMSIT	no	no	no	no	no	no	no	val	no	val	no	nn	cde
01201000010403163	12	3	0	7	0	0	362	4	1	71	15	0	0
01201000020403000	12	5	0	7	5	0	360	2	2	49	5	0	0
01201000080403152	12	6	0	7	3	0	359	2	3	30	12	0	0
01201000140403121	12	10	0	7	6	0	355	2	6	20	1	0	0
01201000170403000	12	2	0	7	0	0	363	3	2	40	5	0	0
01201000220403153	12	2	0	7	10	0	363	2	4	25	1	0	0
01201000260403163	12	13	0	38	1	0	321	4	1	36	5	0	0-
01301008010403154	12	4	0	7	0	0	361	10	1	68	21	0	0
01301008090403144	12	14	0	7	0	0	351	20	1	76	29	0	0
01301008120403142	12	14	0	7	3	0	351	10	1	47	11	0	0
01301008130403143	12	14	0	7	1	0	351	3	1	61	12	0	0
01301008180403114	12	0	0	7	1	0	365	8	1	77	14	0	0
01301008260403112	12	1	0	7	4	0	364	8	2	76	15	0	0
01401005010403144	12	28	0	7	1	0	337	3	2	28	12	0	0
01401005040403152	12	14	0	7	1	0	351	2	1	31	12	0	0
01401005050403154	12	14	0	7	0	0	351	3	2	40	17	0	0
01401005090403152	12	0	0	7	0	0	365	10	1	58	29	0	0
01401005130403162	12	9	0	7	0	0	356	2	1	35	14	0	0
01401005140403162	12	0	0	7	0	0	365	5	1	46	22	0	0
01402007010403114	12	22	0	7	4	0	343	4	1	56	39	0	0
01402007060403112	12	33	0	7	2	0	332	8	1	53	36	1	0
01402007070403143	12	18	0	7	10	0	347	4	2	49	29	0	0
01402007090403143	12	12	0	7	5	0	353	8	1	64	45	1	0
01402007120403144	12	13	0	7	0	0	352	8	2	62	44	1	0
01402007150403113	12	20	0	7	2	0	345	8	1	64	44	1	0
01403002020403142	12	169	0	38	0	0	165	18	3	74	40	0	2
01403002050403143	12	66	0	7	3	0	299	17	1	71	31	0	2
01403002150403154	12	154	0	68	0	0	150	12	1	72	41	0	2
01403002180403153	12	23	0	252	0	0	97	33	2	76	49	0	2
01403002290403154	12	28	0	7	0	0	337	15	1	81	35	0	0
01403002300403142	12	13	0	7	0	0	352	4	1	54	13	0	0
01501006050403141	12	30	0	7	1	0	335	4	1	39	13	0	0
01502006020403163	12	0	0	372	0	0	0	0	0	0	0	0	4
01502006030403123	12	0	0	7	2	0	365	2	9	39	2	0	0
01503003020403241	12	31	0	7	2	0	334	3	1	26	8	0	0
01504004040403163	12	9	0	7	4	0	356	2	1	34	5	0	0
01504004050403144	12	10	0	7	3	0	355	5	1	39	8	0	0
01504004110403000	12	6	0	7	6	0	359	8	4	52	14	0	0
04101000110408172	12	8	11	7	0	0	346	7	1	54	8	0	0
04101000170408143	12	24	12	7	0	0	329	13	1	75	18	0	0
04101000490408144	12	4	9	7	0	0	352	5	1	53	7	0	0
04101000650408173	12	5	3	38	0	0	326	4	1	64	10	0	0-
04101000970408163	12	2	4	8	0	0	358	8	1	52	7	0	0-
04202000010408164	11	41	86	8	0	0	206	11	1	63	24	0	1
04202000080408162	11	48	89	7	0	0	197	4	1	30	3	0	1
04202000120408114	11	119	0	38	0	0	184	3	3	31	3	0	1
04202000180408114	11	95	0	68	0	0	178	5	1	75	27	0	1

Annual Report 81

Global description

Pollutant 4: Acid (column caption: see A2.1)

Station code	month	BLA	REP	spa	ze	>2000	cas	min	occ	med	gap	dig	rej
PPCVVEESSSPLTMSIT	no	no	no	no	no	no	no	val	no	val	no	nn	cde
04302000120408163	12	1	0	7	0	0	364	5	1	46	8	0	0
04302000150408114	12	8	0	7	1	0	357	1	1	34	3	0	0
04302000190408112	12	18	0	7	0	0	347	1	1	29	1	0	0
04302000230408113	12	15	0	7	0	0	350	4	1	51	11	0	0
04401000010408144	12	19	0	7	0	0	346	5	1	28	10	0	0
04401000020408114	12	21	0	7	0	0	344	4	1	31	12	0	0
04401000040408143	12	5	0	7	1	0	360	8	1	31	13	0	0
04401000080408113	12	3	0	7	0	0	362	3	1	37	12	0	0
04401000320408144	12	56	0	7	56	0	309	1	5	19	0	0	0
04401000330408153	12	25	0	7	76	0	340	1	5	13	0	0	0
04402000120411161	12	14	0	7	80	0	351	1	16	11	1	0	0
04402000210411212	12	8	0	7	42	0	357	1	10	50	3	0	0
04402000290411213	12	9	0	7	27	0	356	1	12	25	0	0	0
04402000310411162	12	12	0	7	14	0	353	1	10	25	0	0	0
04402000320411113	12	3	0	7	0	0	362	2	1	65	4	0	0
04402000430411163	12	11	0	7	1	0	354	1	4	32	0	0	0
04404000010411164	12	15	0	7	20	0	350	1	6	22	0	0	0
04404000040411163	12	12	0	7	1	0	353	1	2	46	1	0	0
04404000060411163	12	11	0	7	6	0	354	1	3	33	2	0	0
04404000070411112	12	12	0	7	12	0	353	1	1	55	5	0	0
04404000080411113	12	10	0	7	26	0	355	1	11	20	0	0	0
04404000110411112	12	13	0	7	4	2	352	1	1	86	10	0	3
04501000250408112	12	7	0	7	196	0	358	1	2	0	0	0	0
04501000260408112	12	0	0	7	112	0	365	1	2	8	0	10	0
04501000310408112	12	8	0	38	9	0	326	1	7	13	0	0	0-
05301000020404164	12	5	0	7	0	0	360	10	1	88	33	0	0
05301000030404162	3	7	0	3	0	0	83	23	2	77	57	0	1
05301000070404111	12	3	0	7	0	0	362	5	1	44	11	0	0
05301000100404142	12	5	0	7	0	0	360	6	2	50	15	0	0
05301001030404000	12	8	0	7	0	0	357	19	2	67	34	0	0
05501000010406122	12	22	0	7	0	0	343	6	137	11	9	30	0
07501003520401123	9	0	0	279	0	0	0	0	0	0	0	0	1
07501003530401143	9	33	0	34	0	0	212	4	1	45	15	0	1
07502003550401151	9	45	0	4	0	0	230	3	1	29	9	0	1
07503003600401242	9	0	0	4	0	0	275	7	1	27	7	10	1
09101000150407152	12	31	0	7	1	0	334	6	3	41	14	0	0
09101001060407240	12	2	0	7	0	0	363	6	2	42	18	0	0
09101002030407172	12	52	32	66	0	0	222	10	1	55	24	0	2
09101003040407160	12	3	0	7	0	0	362	12	3	55	31	0	0
09101004040407212	12	37	0	68	0	0	267	27	1	66	37	0	2
09101005050407170	12	62	0	129	0	0	181	27	2	87	44	0	2
09102001110407124	12	3	100	7	0	0	262	20	1	82	36	0	0
09102001150407154	12	23	77	68	0	0	204	16	1	76	37	0	2
09102002130407150	12	21	94	7	0	0	250	13	1	64	27	0	0
09102003100407174	12	48	83	7	0	0	234	9	1	51	22	0	4
09103000190407133	12	14	0	7	0	0	351	20	2	64	36	0	0
09103001100407140	12	17	0	7	0	0	348	7	7	36	19	0	0

Annual Report 81

Global description

Pollutant 4: Acid (column caption: see A2.1)

Station code	month	BLA	REP	spa	ze	>2000	cas	min	occ	med	gap	dig	rej
PPCVVEESSPLTMSIT	no	no	no	no	no	no	no	val	no	val	no	nn	cde
09103002090407260	12	0	0	7	56	0	365	5	1	39	17	0	0
09103003170407150	12	24	0	7	0	0	341	7	1	62	26	0	0
09103003180407160	12	2	0	7	0	0	363	13	4	40	31	0	0
09103004130407150	12	57	79	7	0	0	229	6	1	41	16	0	4
09201000200407120	12	0	0	7	1	0	365	12	1	57	22	0	0
09201000610407240	12	12	0	221	0	0	139	12	4	32	23	10	2
09201000680407150	12	0	0	7	0	0	365	15	6	51	29	0	0
09201000730407150	12	0	0	7	0	0	365	11	1	33	12	0	0
09202001020407150	3	0	0	93	0	0	0	0	0	0	0	0	1
09202002080407210	12	20	0	7	1	0	345	5	11	32	18	0	0
09202003220407150	12	1	0	7	0	0	364	12	1	48	32	0	0
09202004040407140	12	30	91	7	0	0	244	6	3	38	8	0	0
09202004060407150	12	35	92	7	0	0	238	13	1	67	24	0	4
09301000180407160	12	28	0	7	0	0	337	7	4	53	20	0	0
09301000300407140	12	0	0	7	0	0	365	6	2	36	25	0	0
09301000310407170	3	0	0	93	0	0	0	0	0	0	0	0	1
09301000350407150	3	0	0	93	0	0	0	0	0	0	0	0	1
09302000400407140	12	89	74	7	0	0	202	16	1	65	25	0	2
09302000480407112	12	57	84	7	0	0	224	13	1	48	18	0	4
09303000010407151	12	35	0	38	2	0	299	5	8	22	13	0	2
09303001310407110	12	3	0	7	2	0	362	7	11	46	18	0	0
09303002060407160	12	5	101	7	0	0	259	6	3	34	12	0	0
09303003040407160	12	8	99	7	1	0	258	6	16	19	8	0	0
09401000110407130	12	0	106	7	0	0	259	6	1	33	11	0	5
09401000150407140	12	1	106	7	0	0	258	5	7	18	5	30	5
09401000330407150	12	2	106	7	0	0	257	8	8	31	11	0	5
09402000090407174	12	49	0	7	0	0	316	13	4	52	29	0	0
09402000100407150	12	11	0	38	2	0	323	7	9	36	18	0	0-
09402000110407241	12	0	0	7	0	0	365	6	7	24	14	40	0
09402000120407143	12	30	90	7	1	0	245	17	2	38	18	0	0
09403000120407150	12	4	103	7	0	0	258	6	11	32	7	0	0
09403000170407240	12	4	103	7	5	0	258	2	1	18	4	20	0
09403000200407160	12	4	103	7	3	0	258	2	1	30	10	0	0
09404000050407241	12	7	0	7	6	0	358	7	25	29	17	0	0
09404000080407240	12	24	0	7	1	0	341	6	3	39	15	0	0
09405000090407154	12	0	100	7	0	0	265	6	1	44	11	0	0
09405001140407240	12	1	103	7	1	0	261	3	1	17	3	0	0
09405002010407242	12	0	0	7	0	0	365	6	10	16	8	30	0
09405002290407150	12	3	0	7	0	0	362	7	24	22	14	20	0
09405003060407150	12	17	0	68	0	0	287	6	5	24	11	10	2
09405003100407160	12	0	0	7	0	0	365	6	4	22	9	20	0
09501000090407150	12	2	0	7	0	0	363	14	1	84	50	0	0
09502000020407140	12	5	105	7	0	0	255	8	1	32	7	10	5
09503000050407150	12	44	87	7	0	0	234	9	1	54	16	0	4
09505000050407170	12	25	93	7	0	0	247	9	1	42	11	0	0
09505000110407140	12	48	89	7	0	0	228	14	5	40	16	0	4
09505000150407240	12	84	78	7	2	0	203	9	1	41	16	0	2

Annual Report 81

Global description

Pollutant 4: Acid (column caption: see A2.1)

Station code	month	BLA	REP	spa	ze	>2000	cas	min	occ	med	gap	dig	rej
PPCVVEESSSPLTMSIT	no	no	no	no	no	no	no	val	no	val	no	nn	cde
09699000010407301	12	2	0	7	0	0	363	4	1	11	3	50	0
09699001270407301	12	7	0	7	0	0	358	7	5	34	21	0	0
09699002010407301	12	6	0	7	20	0	359	7	5	23	11	20	0
09699003000407301	12	1	0	7	9	0	364	6	2	13	8	60	0
09699006010407301	12	21	98	7	16	0	246	4	2	22	4	0	0
09699008010407301	12	18	0	38	1	0	316	12	2	40	21	0	0-
09699009010407301	6	2	0	5	0	0	179	6	16	18	13	40	1

Annual Report 81

ANNUAL CHARACTERISTICS OF THE SERIES (year: 1981)**Annex 3: Yearly percentiles 25,50,75,95,98
computed for the selected series**

Column caption:

<u>Label</u>	<u>Explanation</u>
station code	PPCVVEESSSPLTMSIT: PP country code C town class code VV town code EE always zero SSS station code PL pollutant code TM measurement technique code SIT situation code
cas	number of cases reported for the year (measured values)
min	minimum concentration for the year ($\mu\text{g}/\text{m}^3$)
max	maximum concentration for the year ($\mu\text{g}/\text{m}^3$)
25,50,75,95,98	yearly percentiles ($\mu\text{g}/\text{m}^3$).

Annual Report 81

Yearly percentiles

Pollutant 1: SO₂ (column caption: see A3.1)

Station code	cas no	min val	max val	25 val	50 val	75 val	95 val	98 val
02101000060103110	364	10	470	40	70	110	260	380
02101000080103113	364	10	380	40	60	90	220	280
02101000160103163	364	10	780	50	80	130	290	360
02101000180103163	364	10	480	40	70	110	220	320
02101000200103113	364	10	670	40	60	100	240	290
02101000280103113	364	10	500	40	60	80	190	240
02201000050104161	355	13	130	13	14	21	67	90
02201000070104163	338	13	212	13	17	27	70	84
02201000080104164	346	13	231	19	25	37	92	113
02201000100104000	342	13	170	22	29	45	88	112
02201000110104000	313	13	158	15	25	38	74	98
02201000120104000	346	13	257	15	21	37	82	104
02201000130104000	310	13	189	14	19	30	77	92
02201000140104000	344	13	191	15	23	35	74	100
02201000150104000	318	13	195	18	28	48	88	111
02201000160104000	349	13	229	15	22	33	87	108
02304000010106174	338	12	421	42	64	96	223	305
02304000050107160	324	10	736	42	61	88	212	299
023050000810109163	316	13	252	20	35	64	159	200
023050000820109163	315	13	208	21	35	61	138	157
023050000830109163	318	13	224	18	29	55	142	182
02306000010126000	344	10	280	30	40	70	190	240
02306000020126000	324	10	310	30	50	80	170	220
02401000710109104	342	13	157	19	31	45	92	123
02401000720109141	335	13	234	13	15	27	62	84
02402000540109163	343	13	243	24	38	58	156	199
02403000220110164	334	10	270	30	40	60	120	160
02404000010106164	355	8	633	31	51	84	173	241
02405000060112000	353	6	257	13	26	56	116	157
02405000070112000	361	6	289	23	41	72	138	176
02405000080112000	352	6	288	18	32	66	146	192
02406001100110111	308	10	540	30	50	80	150	210
02406001110110144	325	10	390	30	40	70	150	220
02408000010106000	362	9	426	37	63	90	236	302
02408000020106162	355	7	539	24	41	76	214	273
02409000640109164	310	13	220	19	30	45	125	162
02409000650109000	334	13	322	18	26	43	130	175
02410000110109143	345	13	253	17	28	46	116	140
02411000850109163	331	13	303	28	45	70	158	190
02412000030112000	357	6	482	12	28	63	202	308
02412000040112000	348	6	269	15	32	55	132	177
02412000050112000	356	6	269	18	34	56	147	214
02501000610109162	332	13	261	20	31	48	107	164
02502000910109163	349	13	108	21	31	47	82	97
02502000920109163	343	13	256	14	22	40	112	187
02504000010126000	313	10	250	20	30	50	100	140

Annual Report 81

Yearly percentiles
Pollutant 1: SO₂ (column caption: see A3.1)

Station code	cas no	min val	max val	25 val	50 val	75 val	95 val	98 val
02699000010113301	354	1	111	1	3	7	22	31
02699000020113000	362	1	133	1	3	11	39	59
02699000030113000	359	1	169	4	9	20	74	113
02699000040113000	364	1	133	6	10	19	51	90
02699000050113000	344	1	151	4	8	15	50	84
02699000060113000	364	1	82	1	4	12	32	42
02699000070113000	317	1	104	1	3	7	20	28
02699000080113000	348	1	137	1	4	9	35	57
02699000090113000	363	1	352	6	12	25	80	118
02699000100113000	351	1	156	7	14	25	55	81
02699000120113000	357	1	139	5	12	24	63	93
02699000130113000	358	1	154	1	4	10	32	57
02699000140113000	353	1	150	1	3	9	20	27
02699000150113000	342	1	208	5	11	22	65	107
02699000160113000	361	1	250	5	12	32	82	135
03201001020101164	365	3	103	12	18	29	49	64
03201003300101162	339	1	104	3	7	18	60	84
03201003350101162	365	3	152	11	18	32	64	98
06101000160120163	313	10	1141	34	104	364	728	941
08302004040102160	323	1	313	12	23	42	88	109
08302004050102160	347	2	124	12	22	38	74	94
08303004180102160	348	1	320	22	38	59	114	141
08303004230102160	345	3	298	16	26	45	90	106
08401008140102160	335	2	314	11	18	33	93	128
08402009080102160	335	1	322	7	11	22	54	71
08402009090102160	344	1	329	7	12	22	54	107
08403002140102160	311	4	191	14	21	35	76	114
08404006100102160	320	1	318	14	23	34	78	108
08504001210102160	337	3	240	14	23	38	75	135
08505003040102160	354	2	228	13	21	35	89	106
08506008060102160	346	1	377	11	19	35	70	104
08699001240102300	335	3	276	13	20	33	71	110
08699003120102300	333	1	285	10	19	35	86	126
08699008150102300	346	1	319	7	13	25	69	103
08699009010102300	346	1	271	3	7	13	37	98

Annual Report 81

Yearly percentiles
Pollutant 2: Smoke (column caption: see A3.1)

Station code PPCVVEESSSPLTMSIT	cas no	min val	max val	25 val	50 val	75 val	95 val	98 val
01201000010203163	363	3	126	15	22	32	58	77
01201000020203000	361	1	126	13	19	27	48	66
01201000080203152	363	2	62	8	12	20	34	42
01201000140203121	356	1	74	5	8	13	27	32
01201000170203000	363	1	72	9	13	19	37	47
01201000220203153	363	1	82	5	8	17	39	53
01201000260203163	321	1	91	9	14	24	53	69
01301008010203154	361	1	81	8	13	20	43	52
01301008090203144	351	8	108	25	33	47	69	85
01301008120203142	351	1	83	6	11	17	35	49
01301008130203143	351	1	81	9	14	23	38	48
01301008180203114	365	1	147	9	14	23	49	66
01301008260203112	364	1	83	6	10	17	36	50
01401005010203144	337	3	69	9	14	23	42	48
01401005040203152	351	1	194	9	14	21	45	54
01401005050203154	351	1	132	14	19	29	54	77
01401005090203152	365	3	81	7	10	16	29	42
01401005130203162	363	3	81	7	12	19	37	48
01401005140203162	365	3	98	9	14	21	34	51
01402007010203114	349	2	106	8	14	24	48	70
01402007060203112	337	2	51	5	10	14	26	34
01402007070203143	351	2	143	12	22	39	78	102
01402007090203143	357	2	62	8	14	22	39	45
01402007120203144	357	2	74	7	12	20	36	54
01402007150203113	349	2	97	8	12	18	34	45
01403002290203154	337	1	118	12	19	30	51	68
01403002300203142	353	1	71	8	12	19	33	38
01501006050203141	335	1	74	7	10	16	34	48
01502006030203123	365	1	78	11	18	25	55	67
01503003020203241	335	1	42	3	5	8	20	24
01504004040203163	356	1	122	8	16	26	50	69
01504004050203144	356	1	155	14	23	38	69	88
01504004110203000	362	3	126	27	38	54	79	89
03201001020202164	365	2	103	16	22	33	51	62
03201003300202162	339	1	130	5	9	15	33	42
03201003340202113	365	1	111	5	10	19	39	54
03201003350202162	365	2	146	10	19	30	57	78
04101000110210172	363	5	392	18	31	49	93	161
04101000170210143	344	6	296	21	33	46	80	135
04101000490210144	363	6	287	21	34	49	81	134
04101000650210173	332	6	281	19	31	46	81	115
04101000970210163	364	10	385	28	39	52	85	143
04302000120210163	364	2	104	16	22	32	52	83
04302000150210114	350	1	121	14	23	36	68	83
04302000190210112	350	2	87	10	17	27	52	68
04302000230210113	357	2	116	11	19	30	59	80

Annual Report 81

Yearly percentiles
Pollutant 2: Smoke (column caption: see A3.1)

Station code	cas no	min val	max val	25 val	50 val	75 val	95 val	98 val
PPCVVEESSSPLTMSIT								
04401000010210144	345	1	104	6	9	14	36	54
04401000020210114	344	1	74	6	10	17	42	51
04401000040210143	360	1	40	2	5	9	20	28
04401000080210113	362	1	30	2	4	6	14	23
04401000320210144	365	2	104	16	23	32	51	59
04401000330210153	365	1	97	10	17	25	49	65
05301000020204164	358	1	706	14	24	41	100	212
05301000070204111	363	1	576	9	19	35	93	171
05301000100204142	362	2	445	12	21	36	100	198
05301001030204000	357	2	367	16	35	62	174	229
05501000010206122	336	1	124	7	13	25	58	81
09101000150207152	353	3	149	12	21	33	57	77
09101001060207240	363	1	113	5	10	18	44	55
09101003040207160	362	2	121	9	16	26	50	81
09102001110207124	362	4	183	14	19	31	56	73
09102002130207150	344	3	136	14	20	30	55	70
09103000190207133	352	1	125	9	13	21	48	67
09103001100207140	347	1	116	5	9	15	39	56
09103002090207260	365	1	148	5	9	16	37	64
09103003170207150	340	3	287	15	23	37	85	141
09103003180207160	364	2	246	11	18	29	72	109
09201000200207120	365	3	541	10	18	32	95	148
09201000680207150	365	4	650	8	13	25	88	142
09201000730207150	365	3	323	4	10	19	72	159
09202002080207210	344	1	117	3	7	16	41	56
09202003220207150	365	3	372	18	26	36	78	119
09202004040207140	335	1	174	4	7	17	46	50
09301000180207160	337	1	134	7	13	24	55	70
09301000300207140	365	1	107	4	8	15	41	53
09303001310207110	365	2	88	9	14	23	55	62
09303002060207160	360	3	140	10	16	26	68	101
09303003040207160	357	1	105	3	7	14	34	55
09401000110207130	365	1	310	14	22	35	93	129
09401000150207140	365	3	287	13	22	33	72	154
09401000330207150	364	4	430	18	29	43	94	164
09402000090207174	318	3	164	7	15	25	65	85
09402000100207150	322	1	111	4	8	16	40	55
09402000110207241	365	1	121	4	9	17	40	54
09402000120207143	334	1	129	8	14	28	55	78
09403000120207150	361	3	227	9	18	27	64	89
09403000170207240	360	1	111	9	16	24	54	84
09403000200207160	361	4	285	13	21	31	65	108
09404000050207241	363	1	90	3	5	10	22	31
09404000080207240	344	2	64	4	6	12	25	32
09405000090207154	365	2	71	6	8	15	28	36
09405001140207240	363	1	173	5	9	16	41	59

Annual Report 81

Yearly percentiles
Pollutant 2: Smoke (column caption: see A3.1)

Station code	cas no	min val	max val	25 val	50 val	75 val	95 val	98 val
PPCVVEESSSPLTMSIT								
09405002010207242	365	1	86	5	8	14	32	41
09405002290207150	365	1	99	8	12	19	36	45
09405003100207160	365	3	122	14	26	40	80	103
09501000090207150	363	8	492	26	38	70	158	238
09502000020207140	360	2	87	5	9	16	38	59
09503000050207150	330	1	94	8	14	27	54	69
09505000050207170	340	1	193	7	10	20	47	69
09699000010207301	357	1	61	1	1	4	12	20
09699001270207301	358	1	126	5	9	18	47	64
09699002010207301	365	1	38	1	2	6	21	25
09699003000207301	365	1	35	2	3	6	15	17
09699005010207301	364	1	27	1	2	4	10	14
09699006010207301	348	1	57	3	6	11	27	36
09699008010207301	320	1	95	2	4	10	26	35
09699009010207301	334	1	4	1	1	2	3	3

Annual Report 81

Yearly percentiles

Pollutant 3: SPM (column caption: see A3.1)

Station code	cas no	min val	max val	25 val	50 val	75 val	95 val	98 val
PPCVVEESSPLTMSIT								
02201000100302000	333	16	309	45	60	81	127	146
02201000150302000	317	5	228	29	46	69	104	128
02201000160302000	347	5	123	20	31	47	72	85
02304000010302000	348	15	238	46	61	83	141	182
02305000810306163	319	15	186	38	54	77	121	149
02305000820306163	314	1	95	22	32	45	67	74
02306000010326000	318	1	93	5	10	18	43	73
02306000020326000	337	3	136	8	14	27	56	88
02401000710306104	355	11	188	28	40	55	82	104
02402000540306163	322	9	124	25	41	45	78	95
02403000010326160	349	6	157	14	21	33	61	96
02403000220326164	342	7	188	19	28	43	80	121
02405000060325000	338	2	236	23	36	60	104	130
02405000070325000	331	2	288	27	45	87	151	188
02406001100326111	313	3	135	6	9	16	56	82
02406001110326144	349	5	149	14	19	30	72	99
02406001120326000	315	4	88	14	18	27	51	69
02407000310306164	323	1	235	26	37	55	84	116
02408000010302000	316	9	183	32	46	65	128	152
02408000020302000	352	14	213	25	32	43	84	131
02410000110306143	345	5	195	21	35	52	82	98
02411000850306163	357	8	119	34	50	75	104	104
02412000030325000	331	5	174	18	30	47	88	109
02412000040325000	331	7	294	34	51	84	149	200
02412000050325000	328	1	278	24	36	70	129	166
02502000910306163	336	3	159	25	36	52	80	111
02503000010326000	326	3	167	13	20	36	66	105
02504000010326000	337	2	153	14	23	39	98	112
02505000010325000	335	1	224	16	28	49	100	134
02699000020308000	353	5	145	20	31	48	87	110
02699000030308000	362	6	171	24	37	61	114	133
02699000040308000	362	6	153	19	28	43	80	106
02699000050308000	361	6	170	27	41	66	119	137
02699000070308000	354	1	141	8	17	31	63	81
02699000080308000	353	4	175	21	34	54	92	118
02699000090308000	347	5	238	25	39	69	124	149
02699000100308000	365	2	178	23	33	48	86	118
02699000120308000	357	8	199	24	37	59	118	143
02699000130308000	357	4	184	16	29	42	75	94
02699000140308000	357	4	109	13	21	33	60	88
02699000150308000	353	8	202	20	30	47	91	109
02699000160308000	363	6	251	27	46	75	127	140
03201001020301164	365	6	98	17	24	35	60	71
03201003300301162	354	4	121	17	24	35	67	82
03201003340301113	364	4	392	27	39	59	95	111
03201003350301162	359	3	122	14	21	31	56	64
06201000030315144	334	42	554	117	161	224	351	408

Annual Report 81

Yearly percentiles
Pollutant 4: Acid (column caption: see A3.1)

Station code	cas no	min val	max val	25 val	50 val	75 val	95 val	98 val
01201000010403163	362	4	414	45	71	111	196	242
01201000020403000	360	2	231	30	49	73	130	214
01201000080403152	359	2	171	19	32	49	98	118
01201000140403121	355	2	185	11	20	31	61	109
01201000170403000	363	3	251	25	40	62	114	174
01201000220403153	363	2	274	14	25	47	106	150
01201000260403163	321	4	218	23	36	57	121	181
01301008010403154	361	10	688	43	68	107	173	237
01301008090403144	351	20	243	52	76	109	159	195
01301008120403142	351	10	184	32	47	68	118	147
01301008130403143	351	3	249	41	61	89	130	167
01301008180403114	365	8	377	50	78	102	158	185
01301008260403112	364	8	445	43	76	111	195	247
01401005010403144	337	3	147	20	30	45	69	92
01401005040403152	351	2	373	20	31	53	137	196
01401005050403154	351	3	295	25	40	59	111	177
01401005090403152	365	10	271	41	58	79	140	175
01401005130403162	356	2	218	23	35	53	101	130
01401005140403162	365	5	234	35	48	68	115	152
01402007010403114	343	4	233	38	56	83	146	165
01402007060403112	332	8	266	38	53	71	105	120
01402007070403143	347	4	278	34	49	73	139	180
01402007090403143	353	8	233	45	64	86	131	161
01402007120403144	352	8	315	45	62	94	169	199
01402007150403113	345	8	210	49	64	90	139	158
01403002290403154	337	15	427	60	81	103	160	227
01403002300403142	352	4	290	44	54	68	115	161
01501006050403141	335	4	203	26	41	60	107	148
01502006030403123	365	2	288	19	39	66	132	181
01503003020403241	334	3	193	17	26	38	66	77
01504004040403163	356	2	235	23	34	46	82	114
01504004050403144	355	5	188	25	39	56	94	140
01504004110403000	359	8	163	33	52	68	96	110
04101000110408172	357	7	341	32	53	80	161	209
04101000170408143	341	13	479	49	75	112	222	279
04101000490408144	361	5	352	34	53	90	167	225
04101000650408173	329	4	439	39	65	99	219	295
04101000970408163	362	8	368	34	51	81	157	196
04302000120408163	364	5	250	27	46	71	113	156
04302000150408114	357	1	302	20	34	61	121	167
04302000190408112	347	1	207	14	29	48	97	151
04302000230408113	350	4	271	35	51	81	143	169
04401000010408144	346	5	116	21	28	37	69	90
04401000020408114	344	4	96	24	31	40	64	81
04401000040408143	360	8	104	23	31	41	71	90
04401000080408113	362	3	127	28	37	55	86	96
04401000320408144	309	1	218	6	19	40	110	162

Annual Report 81

Yearly percentiles
Pollutant 4: Acid (column caption: see A3.1)

Station code PPCVVEESSPLTMSIT	cas no	min val	max val	25 val	50 val	75 val	95 val	98 val
04401000330408153	340	1	228	2	13	25	85	108
04402000120411161	351	1	394	1	11	44	222	276
04402000210411212	357	1	642	8	50	103	220	295
04402000290411213	356	1	162	8	25	48	101	130
04402000310411162	353	1	527	10	25	72	245	320
04402000320411113	362	2	741	34	65	152	325	432
04402000430411163	354	1	599	15	32	90	315	417
04404000010411164	350	1	391	12	22	40	108	154
04404000040411163	353	1	336	25	46	80	149	200
04404000060411163	354	1	212	19	33	56	133	169
04404000070411112	353	1	428	25	55	95	195	248
04404000080411113	355	1	420	7	20	51	143	233
04501000250408112	358	1	251	1	1	15	86	132
04501000260408112	365	1	104	1	8	22	53	67
04501000310408112	326	1	318	7	13	29	66	163
05301000020404164	360	10	320	69	88	110	169	209
05301000070404111	362	5	211	32	44	56	82	109
05301000100404142	360	6	110	34	50	62	80	86
05301001030404000	357	19	199	52	68	90	130	151
05501000010406122	343	6	88	6	11	17	30	36
09101000150407152	334	6	278	28	41	64	118	135
09101001060407240	363	6	171	32	42	58	98	117
09101003040407160	362	12	455	37	55	78	140	195
09102001110407124	362	20	313	58	74	105	187	216
09102002130407150	344	13	267	42	60	88	153	182
09103000190407133	351	20	234	48	64	84	122	169
09103001100407140	348	7	275	27	36	61	133	190
09103002090407260	365	5	226	15	42	67	111	148
09103003170407150	341	7	326	48	62	80	148	211
09103003180407160	363	13	229	33	40	60	118	166
09201000200407120	365	12	355	42	57	80	145	224
09201000680407150	365	15	387	37	51	66	121	180
09201000730407150	365	11	204	25	33	46	88	111
09202002080407210	345	5	273	17	32	63	104	151
09202003220407150	364	12	296	35	48	77	139	191
09202004040407140	335	6	369	22	34	53	136	159
09301000180407160	337	7	210	34	54	75	129	159
09301000300407140	365	6	174	30	36	55	100	132
09303001310407110	362	7	189	29	46	65	103	137
09303002060407160	360	6	232	23	34	51	90	123
09303003040407160	357	6	101	14	18	28	59	72
09401000110407130	365	6	117	22	29	42	63	100
09401000150407140	364	5	68	15	18	23	38	48
09401000330407150	363	8	94	21	27	38	59	70
09402000090407174	316	13	226	34	52	67	104	125
09402000100407150	323	7	137	28	36	50	81	105
09402000110407241	365	6	57	18	24	26	32	42

Annual Report 81

Yearly percentiles
Pollutant 4: Acid (column caption: see A3.1)

Station code	cas no	min val	max val	25 val	50 val	75 val	95 val	98 val
09402000120407143	335	17	116	28	36	48	82	94
09403000120407150	361	6	229	17	29	45	76	84
09403000170407240	361	2	72	11	18	28	49	57
09403000200407160	361	2	369	18	29	44	93	116
09404000050407241	358	7	139	21	29	39	59	76
09404000080407240	341	6	102	29	39	52	78	90
09405000090407154	365	6	232	23	39	57	89	104
09405001140407240	364	3	105	11	17	27	53	59
09405002010407242	365	6	70	14	16	23	32	47
09405002290407150	362	7	76	15	22	25	44	51
09405003100407160	365	6	72	14	22	32	51	57
09501000090407150	363	14	284	73	84	100	161	202
09502000020407140	360	8	89	21	29	38	56	60
09505000050407170	340	9	257	27	41	59	106	128
09699000010407301	363	4	56	6	11	12	19	23
09699001270407301	358	7	153	22	34	48	93	115
09699002010407301	359	7	102	20	23	30	44	52
09699003000407301	364	6	44	7	13	14	16	22
09699006010407301	344	4	210	13	22	39	94	108
09699008010407301	316	12	162	31	40	55	93	116

Annual Report 81

ANNUAL CHARACTERISTICS OF THE SERIES (year: 1981)

Annex 4: Annual descriptive parameters

Column caption:

<u>Label</u>	<u>Explanation</u>
station code	PPCVVEESSSPLTMSIT: PP country code C town class code VV town code EE always zero SSS station code PL pollutant code TM measurement technique code SIT situation code
cas	number of cases reported for the year (measured values)
mean	mean ($\mu\text{g}/\text{m}^3$)
std.d	standard deviation ($\mu\text{g}/\text{m}^3$)
V	variation coefficient
skew	skewness
D	shape estimator of the frequency distribution
kurt	kurtosis

Remark:

See definitions and explanations in the "Comparative study on data analysis part 2: descriptive statistics and data reduction", Chap. III, Technical Report no. 2.

Annual Report 81

Annual descriptive parameters
Pollutant 1: SO₂ (column caption: see A4.1)

Station code PPCVVEESSSPLTMSIT	cas no	mean val	std.d val	V	skew	D	kurt
02101000060103110	364	91	78.8	0.87	2.40	0.74	6.6
02101000080103113	364	76	62.3	0.82	2.19	0.72	5.4
02101000160103163	364	106	84.1	0.79	2.80	0.98	13.1
02101000180103163	364	86	68.0	0.79	2.28	0.79	7.3
02101000200103113	364	85	73.2	0.86	3.05	0.95	14.8
02101000280103113	364	72	56.1	0.77	3.14	1.13	14.5
02201000050104161	355	22	18.9	0.84	2.99	0.96	9.7
02201000070104163	338	26	21.7	0.84	3.60	1.15	19.6
02201000080104164	346	34	27.2	0.79	3.09	1.07	13.2
02201000100104000	342	37	24.1	0.65	2.15	0.97	5.9
02201000110104000	313	32	22.9	0.72	2.28	0.91	6.9
02201000120104000	346	31	26.6	0.87	3.42	1.05	18.3
02201000130104000	310	27	21.8	0.81	3.33	1.12	15.6
02201000140104000	344	30	22.2	0.74	2.79	1.06	11.5
02201000150104000	318	36	25.6	0.71	2.03	0.82	5.9
02201000160104000	349	31	27.1	0.87	3.08	0.94	12.9
02304000010106174	338	83	66.3	0.80	2.35	0.81	6.4
02304000050107160	324	79	71.9	0.91	4.17	1.20	26.1
02305000810109163	316	52	45.2	0.87	1.79	0.54	2.9
02305000820109163	315	48	38.9	0.81	1.60	0.54	2.1
02305000830109163	318	44	40.3	0.91	2.11	0.61	4.4
02306000010126000	344	60	54.6	0.91	2.00	0.57	3.7
02306000020126000	324	60	50.7	0.84	1.78	0.57	3.6
02401000710109104	342	37	25.9	0.69	1.82	0.76	3.7
02401000720109141	335	24	21.7	0.91	4.55	1.31	31.1
02402000540109163	343	52	44.6	0.86	2.11	0.66	4.5
02403000220110164	334	52	39.8	0.77	2.41	0.87	7.4
02404000010106164	355	70	64.0	0.91	3.77	1.08	22.3
02405000060112000	353	41	40.2	0.99	2.09	0.53	5.6
02405000070112000	361	53	44.6	0.83	1.85	0.60	4.7
02405000080112000	352	51	48.4	0.95	1.95	0.53	4.3
02406001100110111	308	65	53.7	0.83	3.64	1.19	22.8
02406001110110144	325	56	48.4	0.86	2.53	0.79	9.5
02408000010106000	362	79	64.6	0.82	2.18	0.73	5.4
02408000020106162	355	66	67.7	1.03	2.52	0.61	8.6
02409000640109164	310	42	37.0	0.88	2.28	0.68	5.5
02409000650109000	334	41	43.6	1.05	3.27	0.75	13.3
02410000110109143	345	40	35.0	0.87	2.49	0.75	7.9
02411000850109163	331	58	46.3	0.80	2.29	0.79	6.7
02412000030112000	357	55	73.9	1.35	2.79	0.43	9.3
02412000040112000	348	43	41.3	0.96	2.25	0.60	6.3
02412000050112000	356	48	48.4	1.01	2.34	0.58	6.2
02501000610109162	332	42	36.3	0.86	2.86	0.88	10.6
02502000910109163	349	37	20.7	0.56	1.26	0.69	1.3
02502000920109163	343	36	38.6	1.07	3.07	0.69	10.9
02504000010126000	313	40	34.1	0.85	2.58	0.81	9.4
02699000010113301	354	7	11.4	1.69	5.44	0.55	39.7

Annual Report 81

Annual descriptive parameters

Pollutant 1: SO₂ (column caption: see A4.1)

Station code PPCVVEESSSPLTMSIT	cas no	mean val	std.d val	V	skew	D	kurt
02699000020113000	362	10	16.1	1.67	3.48	0.36	15.9
02699000030113000	359	19	26.7	1.44	2.68	0.37	7.9
02699000040113000	364	16	19.2	1.18	3.12	0.60	11.9
02699000050113000	344	14	19.9	1.42	3.67	0.52	16.4
02699000060113000	364	9	11.5	1.31	2.72	0.44	9.5
02699000070113000	317	6	8.9	1.48	5.35	0.70	47.8
02699000080113000	348	9	16.2	1.77	4.38	0.40	24.0
02699000090113000	363	23	34.9	1.50	4.57	0.58	30.6
02699000100113000	351	20	20.6	1.05	2.91	0.67	12.4
02699000120113000	357	20	22.6	1.15	2.46	0.49	7.4
02699000130113000	358	9	15.8	1.69	4.50	0.45	28.3
02699000140113000	353	7	10.8	1.63	7.64	0.83	89.6
02699000150113000	342	19	24.7	1.31	3.45	0.55	15.9
02699000160113000	361	24	31.9	1.35	3.16	0.49	13.0
03201001020101164	365	23	14.7	0.65	1.64	0.74	4.0
03201003300101162	339	15	19.5	1.33	2.36	0.37	5.8
03201003350101162	365	25	22.0	0.89	2.58	0.77	9.3
06101000160120163	313	231	253.9	1.10	1.33	0.29	1.1
08302004040102160	323	32	31.9	0.99	3.26	0.83	20.2
08302004050102160	347	29	22.4	0.78	1.54	0.54	2.4
08303004180102160	348	47	38.4	0.82	2.70	0.90	13.2
08303004230102160	345	35	28.9	0.83	3.14	1.02	20.1
08401008140102160	335	29	35.6	1.24	4.07	0.73	22.8
08402009080102160	335	18	23.8	1.35	7.06	1.09	79.1
08402009090102160	344	19	26.6	1.41	6.15	0.87	56.9
08403002140102160	311	29	26.6	0.91	2.73	0.79	9.8
08404006100102160	320	30	30.2	1.02	4.62	1.12	32.6
08504001210102160	337	31	30.7	0.98	3.69	0.95	18.3
08505003040102160	354	29	27.9	0.95	2.81	0.76	12.1
08506008060102160	346	27	30.7	1.13	5.62	1.17	51.4
08699001240102300	335	28	29.0	1.03	4.16	0.99	24.3
08699003120102300	333	29	33.0	1.14	3.70	0.76	19.7
08699008150102300	346	22	32.5	1.45	4.96	0.67	34.2
08699009010102300	346	13	22.7	1.77	6.15	0.57	53.1

Annual Report 81

Annual descriptive parameters
Pollutant 2: Smoke (column caption: see A4.1)

Station code PPCVVEESSPLTMSIT	cas no	mean val	std.d val	V	skew	D	kurt
01201000010203163	363	26	17.1	0.65	1.89	0.84	5.2
01201000020203000	361	22	15.1	0.69	2.51	1.05	10.6
01201000080203152	363	15	9.7	0.64	1.53	0.70	3.0
01201000140203121	356	10	8.2	0.79	2.56	0.90	11.5
01201000170203000	363	16	10.8	0.68	1.81	0.77	4.5
01201000220203153	363	14	12.9	0.95	1.88	0.50	4.0
01201000260203163	321	19	15.7	0.82	2.08	0.69	5.0
01301008010203154	361	16	12.3	0.76	1.89	0.69	4.5
01301008090203144	351	37	17.2	0.46	1.20	0.80	1.7
01301008120203142	351	14	11.8	0.85	2.32	0.73	7.5
01301008130203143	351	17	12.3	0.72	1.79	0.70	4.5
01301008180203114	365	19	15.9	0.86	2.95	0.92	14.2
01301008260203112	364	13	11.7	0.87	2.10	0.64	6.2
01401005010203144	337	18	11.6	0.65	1.31	0.59	1.6
01401005040203152	351	17	16.9	0.97	4.72	1.24	38.2
01401005050203154	351	24	17.0	0.71	2.10	0.84	7.0
01401005090203152	365	13	9.7	0.74	3.32	1.26	15.6
01401005130203162	363	15	11.5	0.77	2.28	0.82	8.1
01401005140203162	365	17	11.4	0.69	2.67	1.12	12.2
01402007010203114	349	19	16.1	0.86	2.20	0.68	6.3
01402007060203112	337	11	8.2	0.73	1.74	0.67	4.5
01402007070203143	351	29	23.6	0.82	1.64	0.54	2.9
01402007090203143	357	17	10.8	0.65	1.20	0.54	1.6
01402007120203144	357	15	12.4	0.83	1.90	0.62	4.6
01402007150203113	349	14	10.8	0.77	2.74	0.99	12.9
01403002290203154	337	23	15.7	0.68	1.92	0.82	5.9
01403002300203142	353	14	10.4	0.72	1.79	0.70	5.3
01501006050203141	335	13	10.5	0.83	2.45	0.81	7.6
01502006030203123	365	21	15.1	0.71	1.58	0.63	2.5
01503003020203241	335	7	6.0	0.83	2.37	0.77	7.0
01504004040203163	356	21	17.2	0.83	2.06	0.67	6.5
01504004050203144	356	29	21.6	0.75	1.97	0.74	6.0
01504004110203000	362	42	19.9	0.48	0.82	0.53	0.8
03201001020202164	365	26	14.0	0.55	1.29	0.72	2.8
03201003300202162	339	12	12.7	1.03	4.03	0.97	26.7
03201003340202113	365	14	14.3	0.99	2.74	0.70	12.1
03201003350202162	365	23	19.2	0.82	2.36	0.78	8.7
04101000110210172	363	40	39.8	0.98	4.22	1.08	26.2
04101000170210143	344	39	34.2	0.87	4.15	1.28	22.6
04101000490210144	363	41	31.4	0.77	3.69	1.33	20.4
04101000650210173	332	38	32.2	0.84	3.68	1.18	19.7
04101000970210163	364	45	33.6	0.74	4.84	1.84	36.4
04302000120210163	364	26	16.8	0.66	1.91	0.85	5.2
04302000150210114	350	27	18.9	0.69	1.52	0.64	2.9
04302000190210112	350	21	15.3	0.74	1.76	0.67	3.7
04302000230210113	357	24	18.0	0.76	1.98	0.74	5.2
04401000010210144	345	13	13.3	1.04	3.25	0.77	13.6

Annual Report 81

Annual descriptive parameters
Pollutant 2: Smoke (column caption: see A4.1)

Station code PPCVVEESSSPLTMSIT	cas no	mean val	std.d val	V	skew	D	kurt
04401000020210114	344	14	12.9	0.90	2.05	0.60	5.0
04401000040210143	360	7	6.6	0.95	2.25	0.61	6.1
04401000080210113	362	5	4.9	0.98	2.41	0.62	6.7
04401000320210144	365	25	13.7	0.55	1.33	0.74	3.4
04401000330210153	365	20	14.5	0.73	1.94	0.76	4.9
05301000020204164	358	39	56.6	1.47	6.52	0.86	60.2
05301000070204111	363	31	47.7	1.54	6.15	0.75	54.4
05301000100204142	362	34	44.0	1.30	4.42	0.72	27.7
05301001030204000	357	51	53.8	1.05	2.50	0.58	7.5
05501000010206122	336	20	19.4	0.99	2.55	0.65	8.4
09101000150207152	353	26	19.4	0.75	2.43	0.90	9.5
09101001060207240	363	15	15.2	1.02	2.53	0.61	8.7
09101003040207160	362	20	16.8	0.83	2.41	0.79	8.1
09102001110207124	362	25	18.7	0.75	3.21	1.21	18.3
09102002130207150	344	24	16.7	0.68	2.54	1.07	10.4
09103000190207133	352	18	15.7	0.88	2.74	0.82	10.4
09103001100207140	347	13	13.1	1.04	3.07	0.72	14.3
09103002090207260	365	13	15.4	1.18	3.68	0.71	20.9
09103003170207150	340	32	33.2	1.02	3.67	0.89	17.8
09103003180207160	364	25	25.0	0.99	3.68	0.93	20.6
09201000200207120	365	32	56.9	1.80	6.12	0.54	43.5
09201000680207150	365	28	60.8	2.17	6.75	0.40	53.4
09201000730207150	365	21	39.3	1.91	5.05	0.40	29.4
09202002080207210	344	12	15.2	1.23	3.02	0.54	12.1
09202003220207150	365	33	30.8	0.92	4.93	1.40	41.9
09202004040207140	335	13	15.9	1.24	4.33	0.77	32.8
09301000180207160	337	19	18.6	0.96	2.55	0.67	8.9
09301000300207140	365	12	13.7	1.11	2.92	0.62	11.6
09303001310207110	365	18	13.9	0.77	2.06	0.74	4.8
09303002060207160	360	23	22.6	1.00	2.75	0.69	9.3
09303003040207160	357	12	14.1	1.18	3.60	0.70	17.3
09401000110207130	365	31	30.9	1.01	3.88	0.96	22.7
09401000150207140	365	29	31.2	1.07	4.39	0.98	25.9
09401000330207150	364	38	37.0	0.99	4.61	1.18	36.3
09402000090207174	318	21	21.7	1.03	2.50	0.60	8.7
09402000100207150	322	13	14.5	1.10	2.60	0.56	10.0
09402000110207241	365	13	14.1	1.09	2.77	0.61	12.1
09402000120207143	334	21	19.0	0.91	2.02	0.58	5.5
09403000120207150	361	23	22.3	0.96	3.63	0.97	21.9
09403000170207240	360	20	17.0	0.83	2.30	0.75	6.6
09403000200207160	361	26	24.1	0.91	4.72	1.36	38.6
09404000050207241	363	8	8.2	1.07	4.11	0.93	29.8
09404000080207240	344	9	8.8	0.95	2.53	0.68	9.0
09405000090207154	365	11	8.7	0.76	2.50	0.92	9.7
09405001140207240	363	15	16.5	1.13	4.14	0.85	27.4
09405002010207242	365	11	10.9	0.96	2.63	0.70	10.0
09405002290207150	365	15	11.5	0.78	2.53	0.90	11.1

Annual Report 81

Annual descriptive parameters
Pollutant 2: Smoke (column caption: see A4.1)

Station code PPCVVEESSSPLTMSIT	cas no	mean val	std.d val	V	skew	D	kurt
09405003100207160	365	30	22.8	0.75	1.53	0.57	2.6
09501000090207150	363	58	56.0	0.97	3.29	0.86	15.8
09502000020207140	360	13	13.2	1.00	2.53	0.63	7.6
09503000050207150	330	20	17.3	0.85	1.65	0.52	2.9
09505000050207170	340	17	19.8	1.15	4.19	0.84	26.9
09699000010207301	357	4	5.7	1.54	4.80	0.58	34.7
09699001270207301	358	14	16.0	1.13	3.10	0.65	13.6
09699002010207301	365	5	6.5	1.23	2.14	0.39	4.6
09699003000207301	365	5	4.4	0.85	2.11	0.66	6.7
09699005010207301	364	3	3.5	1.07	2.70	0.61	9.9
09699006010207301	348	9	8.9	1.04	2.19	0.52	5.5
09699008010207301	320	8	9.8	1.29	3.47	0.57	20.7
09699009010207301	334	1	0.7	0.50	1.68	1.03	1.6

Annual Report 81

Annual descriptive parameters
Pollutant 3: SPM (column caption: see A4.1)

Station code PPCVVESSSPLTMSIT	cas no	mean val	std.d val	V	skew	D	kurt
02201000100302000	333	67	33.3	0.50	2.00	1.24	8.7
02201000150302000	317	52	32.2	0.62	1.63	0.77	4.5
02201000160302000	347	35	20.2	0.58	1.24	0.65	2.3
02304000010302000	348	70	34.6	0.50	1.81	1.12	4.4
02305000810306163	319	61	31.0	0.51	1.20	0.72	1.4
02305000820306163	314	35	17.0	0.49	0.75	0.48	0.1
02306000010326000	318	15	15.1	1.03	2.50	0.60	7.4
02306000020326000	337	21	19.6	0.94	2.64	0.72	9.0
02401000710306104	355	44	22.5	0.51	1.66	0.99	5.4
02402000540306163	322	39	19.1	0.49	1.30	0.82	3.0
02403000010326160	349	27	20.4	0.76	2.64	0.98	9.7
02403000220326164	342	35	25.5	0.72	2.56	1.01	8.8
02405000060325000	338	45	32.9	0.73	1.97	0.76	6.4
02405000070325000	331	63	45.5	0.73	1.35	0.53	2.3
02406001100326111	313	16	19.1	1.19	2.96	0.57	10.1
02406001110326144	349	26	21.3	0.81	2.54	0.86	7.7
02406001120326000	315	23	14.2	0.62	1.95	0.94	4.4
02407000310306164	323	44	26.8	0.61	2.72	1.33	13.0
02408000010302000	316	55	34.0	0.62	1.50	0.72	2.3
02408000020302000	352	39	25.0	0.64	2.98	1.37	11.7
02410000110306143	345	40	24.5	0.61	1.80	0.87	6.4
02411000850306163	357	55	25.6	0.46	0.50	0.34	-0.8
02412000030325000	331	37	27.0	0.72	2.00	0.78	5.6
02412000040325000	331	65	45.0	0.69	1.72	0.72	3.7
02412000050325000	328	52	42.9	0.82	2.20	0.73	6.7
02502000910306163	336	41	23.3	0.57	1.68	0.90	4.5
02503000010326000	326	28	25.2	0.91	2.82	0.81	10.5
02504000010326000	337	33	28.0	0.86	1.92	0.60	3.8
02505000010325000	335	37	32.7	0.88	2.20	0.67	6.9
02699000020308000	353	37	24.2	0.65	1.44	0.65	2.2
02699000030308000	362	47	31.1	0.66	1.41	0.62	1.9
02699000040308000	362	35	23.7	0.68	1.94	0.83	5.0
02699000050308000	361	51	33.3	0.65	1.15	0.52	0.6
02699000070308000	354	23	20.5	0.89	2.06	0.61	6.2
02699000080308000	353	42	28.1	0.67	1.49	0.64	2.8
02699000090308000	347	52	36.8	0.71	1.42	0.57	2.1
02699000100308000	365	40	25.2	0.64	2.11	0.98	6.4
02699000120308000	357	48	33.5	0.70	1.58	0.64	2.3
02699000130308000	357	34	23.5	0.70	2.01	0.82	6.8
02699000140308000	357	26	18.4	0.71	1.73	0.69	3.7
02699000150308000	353	38	27.8	0.73	2.32	0.90	7.7
02699000160308000	363	55	36.6	0.67	1.29	0.56	2.2
03201001020301164	365	28	16.0	0.57	1.50	0.79	2.7
03201003300301162	354	29	18.0	0.63	1.84	0.87	4.7
03201003340301113	364	46	31.1	0.68	4.46	1.91	41.5
03201003350301162	359	25	15.8	0.64	1.84	0.84	5.8
06201000020315144	329	203	86.8	0.43	0.71	0.52	0.4
06201000030315144	334	181	88.6	0.49	1.16	0.73	1.6

Annual Report 81

Annual descriptive parameters

Pollutant 4: Acid (column caption: see A4.1)

Station code PPCVVEESSPLTMSIT	cas no	mean val	std.d val	V	skew	D	kurt
01201000010403163	362	84	54.6	0.65	1.56	0.70	4.3
01201000020403000	360	58	41.3	0.72	1.78	0.71	4.2
01201000080403152	359	38	26.6	0.70	1.68	0.68	3.6
01201000140403121	355	25	23.6	0.94	3.12	0.85	13.6
01201000170403000	363	50	37.1	0.74	2.11	0.80	6.0
01201000220403153	363	37	37.6	1.00	2.49	0.62	8.8
01201000260403163	321	46	36.6	0.79	2.09	0.73	5.2
01301008010403154	361	82	59.4	0.73	3.86	1.51	30.4
01301008090403144	351	84	41.6	0.49	1.08	0.67	1.2
01301008120403142	351	55	31.7	0.58	1.39	0.72	2.2
01301008130403143	351	68	36.9	0.54	1.28	0.72	2.8
01301008180403114	365	82	44.8	0.55	1.61	0.89	6.5
01301008260403112	364	86	59.8	0.70	1.76	0.73	5.5
01401005010403144	337	34	21.4	0.63	1.58	0.74	4.2
01401005040403152	351	45	45.7	1.02	3.18	0.77	13.6
01401005050403154	351	48	37.7	0.78	2.62	0.93	10.1
01401005090403152	365	66	36.2	0.55	1.65	0.91	4.0
01401005130403162	356	43	31.4	0.73	2.14	0.83	6.9
01401005140403162	365	55	32.1	0.58	1.98	1.02	5.9
01402007010403114	343	65	38.7	0.59	1.26	0.64	2.0
01402007060403112	332	57	28.7	0.51	1.94	1.18	9.0
01402007070403143	347	60	41.2	0.68	1.87	0.79	4.9
01402007090403143	353	69	35.3	0.51	1.19	0.72	2.3
01402007120403144	352	74	44.9	0.60	1.78	0.88	4.4
01402007150403113	345	72	34.3	0.48	0.99	0.65	1.0
01403002290403154	337	89	47.2	0.53	2.70	1.55	11.8
01403002300403142	352	61	35.3	0.58	2.98	1.56	13.8
01501006050403141	335	49	33.4	0.68	1.71	0.72	3.6
01502006030403123	365	51	43.4	0.86	1.76	0.55	4.2
01503003020403241	334	31	19.1	0.62	2.54	1.20	15.2
01504004040403163	356	39	25.5	0.66	2.72	1.20	13.1
01504004050403144	355	44	29.2	0.66	1.86	0.82	4.9
01504004110403000	359	53	25.6	0.49	0.64	0.41	0.9
04101000110408172	357	64	48.5	0.76	2.07	0.77	6.0
04101000170408143	341	91	65.5	0.72	2.34	0.92	8.2
04101000490408144	361	68	53.1	0.78	2.05	0.73	6.1
04101000650408173	329	80	65.3	0.81	2.35	0.79	7.1
04101000970408163	362	64	48.5	0.75	2.34	0.87	8.4
04302000120408163	364	54	35.5	0.65	1.55	0.69	3.8
04302000150408114	357	46	37.8	0.82	2.21	0.73	7.5
04302000190408112	347	38	33.7	0.89	2.24	0.66	6.4
04302000230408113	350	63	40.9	0.65	1.69	0.76	3.9
04401000010408144	346	32	18.6	0.58	1.76	0.92	3.7
04401000020408114	344	34	15.1	0.45	1.43	0.99	2.9
04401000040408143	360	35	17.5	0.51	1.46	0.89	2.5
04401000080408113	362	43	20.6	0.48	0.99	0.63	1.1
04401000320408144	309	30	37.2	1.24	2.50	0.44	7.2

Annual Report 81

Annual descriptive parameters
Pollutant 4: Acid (column caption: see A4.1)

Station code PPCVVEESSPLTMSIT	cas no	mean val	std.d val	V	skew	D	kurt
04401000330408153	340	22	31.8	1.42	3.31	0.47	15.0
04402000120411161	351	42	73.1	1.73	2.55	0.25	6.5
04402000210411212	357	71	84.0	1.19	2.60	0.50	10.4
04402000290411213	356	34	32.8	0.97	1.32	0.34	1.4
04402000310411162	353	59	81.5	1.37	2.29	0.34	5.7
04402000320411113	362	111	113.7	1.03	2.02	0.49	5.3
04402000430411163	354	74	100.9	1.36	2.34	0.35	5.6
04404000010411164	350	34	41.8	1.23	3.92	0.71	22.3
04404000040411163	353	59	49.8	0.84	1.90	0.61	5.2
04404000060411163	354	44	39.2	0.89	1.87	0.55	3.9
04404000070411112	353	72	65.5	0.91	1.96	0.56	5.3
04404000080411113	355	40	57.5	1.43	3.07	0.43	12.0
04501000250408112	358	17	35.7	2.06	3.47	0.23	14.4
04501000260408112	365	15	18.8	1.24	1.89	0.34	4.1
04501000310408112	326	24	33.4	1.39	4.13	0.60	24.0
05301000020404164	360	93	41.2	0.44	1.34	0.94	3.9
05301000070404111	362	47	22.4	0.48	2.08	1.35	9.7
05301000100404142	360	49	19.8	0.40	0.08	0.06	-0.5
05301001030404000	357	74	30.4	0.41	1.03	0.79	1.4
05501000010406122	343	13	9.5	0.73	2.71	1.05	12.8
09101000150407152	334	50	33.6	0.67	2.00	0.86	7.0
09101001060407240	363	48	25.2	0.53	1.60	0.92	3.6
09101003040407160	362	65	45.3	0.69	3.34	1.39	18.9
09102001110407124	362	88	46.2	0.52	1.47	0.85	2.4
09102002130407150	344	72	40.6	0.57	1.33	0.71	1.9
09103000190407133	351	70	33.5	0.48	1.81	1.18	5.2
09103001100407140	348	49	40.1	0.81	2.45	0.83	7.5
09103002090407260	365	46	36.9	0.80	1.25	0.43	2.3
09103003170407150	341	71	42.3	0.59	2.59	1.30	9.4
09103003180407160	363	52	33.5	0.64	2.17	1.00	5.9
09201000200407120	365	69	46.8	0.68	2.82	1.20	10.7
09201000680407150	365	59	39.9	0.67	3.66	1.57	19.6
09201000730407150	365	40	23.8	0.60	2.56	1.27	9.6
09202002080407210	345	45	36.8	0.83	2.09	0.69	6.9
09202003220407150	364	63	42.5	0.68	2.19	0.93	6.6
09202004040407140	335	48	43.5	0.91	2.93	0.84	12.8
09301000180407160	337	61	35.7	0.59	1.20	0.61	1.4
09301000300407140	365	47	28.4	0.61	1.82	0.89	4.1
09303001310407110	362	51	30.9	0.60	1.40	0.69	3.0
09303002060407160	360	40	25.6	0.64	2.45	1.13	10.5
09303003040407160	357	24	15.7	0.66	2.13	0.94	5.4
09401000110407130	365	34	18.2	0.54	1.88	1.07	5.2
09401000150407140	364	20	9.5	0.47	1.54	1.01	3.6
09401000330407150	363	31	14.4	0.47	1.24	0.82	1.9
09402000090407174	316	56	27.8	0.49	1.60	1.00	4.9
09402000100407150	323	41	21.8	0.53	1.32	0.76	2.6
09402000110407241	365	23	7.4	0.33	0.55	0.54	1.2

Annual Report 81

Annual descriptive parameters
Pollutant 4: Acid (column caption: see A4.1)

Station code	cas no	mean val	std.d val	V	skew	D	kurt
PPCVVEESSSPLTMSIT							
09402000120407143	335	41	19.0	0.46	1.52	1.03	2.5
09403000120407150	361	34	24.9	0.74	2.81	1.07	15.6
09403000170407240	361	21	14.0	0.66	1.10	0.48	0.8
09403000200407160	361	37	33.4	0.89	4.71	1.39	35.7
09404000050407241	358	32	16.8	0.53	1.46	0.84	5.4
09404000080407240	341	42	18.3	0.43	0.79	0.58	0.6
09405000090407154	365	43	25.7	0.60	2.03	1.01	9.1
09405001140407240	364	22	15.3	0.71	1.84	0.74	4.6
09405002010407242	365	19	9.0	0.48	1.94	1.26	6.8
09405002290407150	362	22	10.6	0.49	1.38	0.87	3.1
09405003100407160	365	25	13.8	0.55	0.80	0.44	0.2
09501000090407150	363	92	33.8	0.37	2.03	1.77	5.6
09502000020407140	360	30	13.4	0.44	0.83	0.59	1.1
09505000050407170	340	48	31.1	0.65	2.16	0.97	7.9
09699000010407301	363	10	5.5	0.53	2.38	1.36	13.3
09699001270407301	358	39	24.3	0.62	1.81	0.87	3.9
09699002010407301	359	26	12.1	0.47	1.91	1.25	8.0
09699003000407301	364	11	4.5	0.40	1.35	1.06	6.4
09699006010407301	344	32	30.0	0.94	1.97	0.53	5.1
09699008010407301	316	46	23.2	0.50	2.17	1.33	6.2

Annual Report 81

ANNUAL CHARACTERISTICS OF THE SERIES (year: 1981)**Annex 5: First characteristics of the time series
(selected series)**

Column caption:

<u>Label</u>	<u>Explanation</u>
Station code	PPCVVEESSSPLTMSIT: PP country code C town class code VV town code EE always zero SSS station code PL pollutant code TM measurement technique code SIT situation code
S/W	ratio of the number of summer to winter measurements
50,98	winter and summer percentiles ($\mu\text{g}/\text{m}^3$) winter: January to March and Oct. to Dec. 1981 summer: April to Sept. 1981
slope, int.	slope ($\mu\text{g}/\text{m}^3/100$ days) and intercept ($\mu\text{g}/\text{m}^3$) of the regression line computed for the yearly series
persist.	number of 3 days persistence for a concentration value higher than $125 \mu\text{g}/\text{m}^3$

Annual Report 81

First characteristics of the time series
Pollutant 1: SO₂ (column caption: see A5.1)

Station code PPCVVESSSPLTMSIT	S/W no.	summer		winter		regression		persist no
		50	98	50	98	slope	int.	
02101000060103110	1.00	50	150	90	430	3	86	20
02101000080103113	1.00	40	100	80	310	6	65	24
02101000160103163	1.00	60	150	120	390	1	105	52
02101000180103163	1.00	40	120	100	340	-9	102	28
02101000200103113	1.00	50	120	100	340	2	82	35
02101000280103113	1.00	50	110	70	260	5	63	14
02201000050104161	1.03	14	39	17	99	-5	31	0
02201000070104163	1.02	14	45	24	115	-3	30	0
02201000080104164	1.05	22	47	36	157	1	32	0
02201000100104000	0.92	27	62	34	121	-6	48	0
02201000110104000	0.87	19	47	35	126	-0.	33	0
02201000120104000	0.97	16	40	31	134	1	29	0
02201000130104000	0.80	15	34	25	103	-0.	27	0
02201000140104000	1.02	19	51	30	117	2	26	0
02201000150104000	0.95	25	66	31	122	-11	56	0
02201000160104000	1.05	19	48	27	124	-0.	32	0
02304000010106174	1.11	43	100	96	333	-7	97	24
02304000050107160	0.98	46	111	80	415	-17	110	15
023050000810109163	1.15	22	77	59	203	-9	69	14
023050000820109163	0.99	23	82	49	173	-12	70	11
023050000830109163	0.86	22	68	41	192	-7	58	8
02306000010126000	1.04	30	100	60	250	-11	80	17
02306000020126000	0.87	30	110	70	230	-2	64	15
02401000710109104	0.89	24	60	36	129	-5	46	0
02401000720109141	1.12	14	29	25	108	2	21	0
02402000540109163	0.95	27	68	52	218	-10	70	15
02403000220110164	0.93	40	70	50	220	-1	54	7
02404000010106164	0.99	37	115	71	299	-3	75	15
02405000060112000	1.03	20	97	32	193	-0.	41	7
02405000070112000	1.02	32	125	51	204	3	48	5
02405000080112000	0.96	24	100	49	215	-10	69	16
02406001100110111	0.89	40	100	70	220	-12	86	8
02406001110110144	1.12	30	110	50	240	-7	70	11
02408000010106000	1.00	50	144	78	307	-22	119	28
02408000020106162	1.03	24	67	77	297	-8	81	26
02409000640109164	1.25	25	76	38	195	-9	58	1
02409000650109000	0.94	19	45	41	247	3	35	7
02410000110109143	1.01	20	85	35	188	-7	54	0
02411000850109163	1.06	34	83	62	246	-2	62	11
02412000030112000	1.02	16	106	42	325	-21	93	25
02412000040112000	1.05	28	91	33	214	-9	60	5
02412000050112000	1.00	26	88	43	255	0.	47	8
02501000610109162	1.14	21	69	46	203	-4	51	6
02502000910109163	0.95	33	82	31	101	-2	40	0
02502000920109163	1.05	18	67	27	225	-4	43	2
02504000010126000	0.90	20	70	40	200	-5	49	2
02699000010113301	0.98	2	13	5	49	2	3	0
02699000020113000	1.02	1	22	8	74	-2	13	0

Annual Report 81

First characteristics of the time series
Pollutant 1: SO₂ (column caption: see A5.1)

Station code PPCVVEESSPLTMSIT	S/W no.	summer		winter		regression		persist. no
		50	98	50	98	slope	int.	
02699000030113000	1.04	5	29	16	124	-3	24	0
02699000040113000	1.00	8	37	14	97	-2	19	0
02699000050113000	0.97	6	27	11	103	3	9	0
02699000060113000	1.00	2	19	7	56	-1	11	0
02699000070113000	1.05	2	21	4	34	-0.	7	0
02699000080113000	0.94	2	17	7	92	3	4	0
02699000090113000	0.99	8	61	18	158	5	14	1
02699000100113000	0.94	10	32	21	111	-0.	20	0
02699000120113000	0.99	8	44	19	122	-2	24	0
02699000130113000	1.02	1	19	8	71	-1	12	0
02699000140113000	1.02	1	11	8	36	0.	6	0
02699000150113000	0.95	7	32	17	124	0.	18	0
02699000160113000	1.02	8	49	17	152	-6	35	4
03201001020101164	1.01	15	46	25	75	-5	32	0
03201003300101162	1.13	4	45	10	98	-10	32	0
03201003350101162	1.01	13	53	26	110	-3	31	0
06101000160120163	0.97	34	190	364	999	-34	293	126
08302004040102160	0.86	16	70	31	124	3	27	0
08302004050102160	1.04	21	71	23	102	1	26	0
08303004180102160	1.01	30	98	51	188	-2	49	1
08303004230102160	1.02	20	85	37	132	2	31	0
08401008140102160	0.99	13	53	26	178	-2	32	0
08402009080102160	1.02	9	37	14	92	0.	16	0
08402009090102160	1.00	9	38	15	134	1	17	1
08403002140102160	0.86	15	49	28	134	3	24	1
08404006100102160	0.86	19	57	27	150	1	28	0
08504001210102160	0.94	17	54	34	191	3	25	4
08505003040102160	1.03	20	58	23	124	0.	28	0
08506008060102160	1.06	15	54	25	148	0.	26	0
08699001240102300	1.06	15	50	26	171	-3	33	1
08699003120102300	1.06	18	61	23	179	10	10	1
08699008150102300	1.00	10	43	17	152	-2	25	0
08699009010102300	1.00	6	25	9	113	2	9	0
01201000010203163	1.02	17	62	26	81	3	21	0

Annual Report 81

First characteristics of the time series
Pollutant 2: Smoke (column caption: see A5.1)

Station code PPCVVEESSPLTMSIT	S/W no.	summer		winter		regression		persist. no
		50	98	50	98	slope	int.	
01201000020203000	1.03	15	48	21	73	0.	22	0
01201000080203152	1.02	12	34	12	45	0.	14	0
01201000140203121	1.06	8	29	9	37	-1	13	0
01201000170203000	1.02	11	37	16	50	-0.	17	0
01201000220203153	1.02	6	29	16	56	5	5	0
01201000260203163	0.76	12	43	16	74	-1	21	0
01301008010203154	0.98	11	35	16	59	-2	21	0
01301008090203144	1.09	29	63	39	92	-2	41	0
01301008120203142	1.09	9	32	12	66	-0.	15	0
01301008130203143	1.09	12	37	15	66	1	15	0
01301008180203114	1.01	11	37	18	72	-2	23	0
01301008260203112	1.00	8	33	12	54	-0.	15	0
01401005010203144	1.19	14	48	14	48	3	12	0
01401005040203152	1.09	14	51	14	77	-0.	18	0
01401005050203154	0.99	21	48	17	85	3	18	0
01401005090203152	1.01	12	42	10	37	-2	16	0
01401005130203162	1.02	12	37	14	51	0.	13	0
01401005140203162	1.01	12	37	16	51	2	14	0
01402007010203114	0.92	10	42	18	83	-0.	19	0
01402007060203112	0.85	9	28	10	39	0.	11	0
01402007070203143	0.93	20	62	24	106	2	25	0
01402007090203143	0.96	14	42	16	51	-1	19	0
01402007120203144	0.96	10	26	14	58	0.	14	0
01402007150203113	0.92	10	31	14	51	0.	14	0
01403002290203154	1.15	18	45	22	76	-2	27	0
01403002300203142	1.04	9	31	14	55	0.	14	0
01501006050203141	1.01	8	22	12	58	1	11	0
01502006030203123	1.01	13	35	22	74	2	18	0
01503003020203241	1.11	4	18	7	31	-0.	8	0
01504004040203163	1.05	13	37	22	85	-1	23	0
01504004050203144	1.06	20	58	27	114	-2	32	0
01504004110203000	1.01	33	83	44	89	-2	45	0
03201001020202164	1.01	22	50	24	63	0.	25	0
03201003300202162	1.13	8	33	10	60	0.	11	0
03201003340202113	1.01	9	34	11	62	-0.	15	0
03201003350202162	1.01	16	54	20	99	3	18	0
04101000110210172	1.01	23	76	40	201	-5	50	2
04101000170210143	0.90	26	67	39	158	-4	47	2
04101000490210144	0.99	29	73	42	160	-5	50	2
04101000650210173	1.21	26	66	41	210	-6	49	2
04101000970210163	1.01	33	76	45	176	-6	57	2
04302000120210163	1.01	17	40	27	93	-0.	27	0
04302000150210114	1.08	20	67	26	87	3	21	0
04302000190210112	0.97	14	59	20	71	-0.	22	0
04302000230210113	1.01	14	49	25	83	-2	27	0
04401000010210144	1.13	9	20	10	80	0.	12	0
04401000020210114	1.14	10	27	13	68	-0.	16	0
04401000040210143	1.03	5	13	5	32	-0.	8	0

Annual Report 81

First characteristics of the time series
Pollutant 2: Smoke (column caption: see A5.1)

Station code PPCVVEESSSPLTMSIT	S/W no.	summer		winter		regression		persist. no
		50	98	50	98	slope	int.	
04401000080210113	0.99	4	10	4	25	-2	9	0
04401000320210144	1.01	23	44	23	65	-3	31	0
04401000330210153	1.01	17	36	17	71	-0.	21	0
05301000020204164	1.01	16	45	40	242	9	22	2
05301000070204111	0.99	9	40	34	228	13	8	4
05301000100204142	1.02	12	39	35	215	12	12	0
05301001030204000	1.05	18	78	59	269	5	42	7
05501000010206122	1.10	7	33	22	101	4	13	0
09101000150207152	1.08	23	61	19	113	-3	32	0
09101001060207240	0.99	8	43	12	72	0.	14	0
09101003040207160	1.02	12	44	20	86	-0.	21	0
09102001110207124	1.00	15	44	27	83	4	17	0
09102002130207150	0.97	14	46	25	76	0.	23	0
09103000190207133	1.07	12	39	17	89	3	13	0
09103001100207140	1.09	7	25	13	60	3	8	0
09103002090207260	1.01	6	26	10	70	4	6	0
09103003170207150	1.01	20	70	30	181	8	19	0
09103003180207160	1.00	14	44	25	126	6	15	0
09201000200207120	1.01	14	53	26	338	9	16	3
09201000680207150	1.01	12	39	18	349	12	5	2
09201000730207150	1.01	7	28	15	227	8	6	3
09202002080207210	1.07	6	30	10	76	0.	12	0
09202003220207150	1.01	22	51	32	144	5	25	0
09202004040207140	0.96	6	28	11	74	0.	12	0
09301000180207160	1.01	10	46	20	94	0.	19	0
09301000300207140	1.01	6	31	10	69	1	11	0
09303001310207110	1.01	11	28	18	64	1	15	0
09303002060207160	1.03	11	40	21	123	0.	22	1
09303003040207160	1.02	6	23	13	67	2	8	0
09401000110207130	1.01	15	42	34	161	6	20	1
09401000150207140	1.01	14	46	30	169	5	20	3
09401000330207150	1.01	19	51	42	164	3	31	4
09402000090207174	1.34	11	46	21	97	6	9	0
09402000100207150	0.85	6	27	13	72	3	8	0
09402000110207241	1.01	5	24	13	67	2	10	0
09402000120207143	0.95	8	37	25	89	0.	20	0
09403000120207150	1.03	12	36	25	105	5	15	0
09403000170207240	1.02	11	31	22	87	2	17	0
09403000200207160	1.03	15	36	29	109	5	17	0
09404000050207241	1.01	3	20	7	31	-0.	8	0
09404000080207240	0.89	4	18	9	43	0.	8	0
09405000090207154	1.01	7	25	12	44	0.	10	0
09405001140207240	0.99	7	26	15	71	1	13	0
09405002010207242	1.01	6	30	11	53	1	9	0
09405002290207150	1.01	9	28	14	52	0.	13	0
09405003100207160	1.01	19	57	30	104	-8	45	0
09501000090207150	1.02	27	98	57	268	5	48	4

Annual Report 81

First characteristics of the time series
Pollutant 2: Smoke (column caption: see A5.1)

Station code	S/W no.	summer		winter		regression		persist. no
		50	98	50	98	slope	int.	
09502000020207140	0.98	7	25	11	65	3	7	0
09503000050207150	0.95	10	48	23	85	3	15	0
09505000050207170	0.92	8	31	16	84	4	11	0
09699000010207301	1.03	1	10	2	27	-0.	4	0
09699001270207301	1.05	6	26	15	76	4	7	0
09699002010207301	1.01	2	16	4	27	0.	4	0
09699003000207301	1.01	3	17	5	17	-0.	6	0
09699005010207301	1.01	1	10	3	18	-0.	4	0
09699006010207301	0.97	4	19	9	41	1	6	0
09699008010207301	1.22	2	16	9	40	2	4	0
09699009010207301	1.21	1	3	1	3	-0.	1	0

Annual Report 81

First characteristics of the time series
Pollutant 3: SPM (column caption: see A5.1)

Station code PPCVVEESSPLTMSIT	S/W no.	summer		winter		regression		persist. no
		50	98	50	98	slope	int.	
02201000100302000	0.92	57	118	65	156	9	50	2
02201000150302000	0.99	49	113	42	163	-4	59	1
02201000160302000	1.09	33	72	28	96	-1	38	0
02304000010302000	1.02	63	118	58	204	-14	96	10
02305000810306163	1.17	53	117	55	162	-6	72	2
02305000820306163	1.28	33	70	31	74	-2	38	0
02306000010326000	1.29	11	46	8	73	-4	21	0
02306000020326000	0.94	14	93	15	88	-4	28	0
02401000710306104	0.99	42	83	37	116	-3	49	0
02402000540306163	1.08	32	77	43	108	2	36	0
02403000010326160	0.96	24	108	18	94	-5	35	0
02403000220326164	1.02	30	128	24	121	-5	44	2
02405000060325000	0.95	44	169	29	117	0.	45	0
02405000070325000	1.02	67	193	39	188	-4	70	3
02406001100326111	1.16	7	78	13	85	-6	27	0
02406001110326144	1.01	19	72	20	100	-3	31	0
02406001120326000	1.02	19	69	18	65	-2	27	0
02407000310306164	1.23	38	79	37	126	-6	55	1
02408000010302000	0.82	42	128	50	171	1	53	2
02408000020302000	1.07	29	81	36	136	-7	52	1
02410000110306143	1.05	36	82	33	120	-4	48	1
02411000850306163	0.97	45	99	55	104	-11	76	0
02412000030325000	0.99	32	113	27	109	-4	45	0
02412000040325000	1.11	60	226	46	191	-7	77	5
02412000050325000	1.00	41	204	34	158	-7	65	2
02502000910306163	0.96	36	99	35	119	-7	55	1
02503000010326000	1.00	21	116	18	105	-3	34	2
02504000010326000	0.99	23	101	23	130	-9	49	0
02505000010325000	0.95	35	140	21	131	-11	58	2
02699000020308000	1.08	35	88	25	119	-6	49	0
02699000030308000	0.99	40	122	32	133	-6	57	3
02699000040308000	1.01	33	112	24	91	-3	40	0
02699000050308000	0.99	44	135	36	131	-3	57	1
02699000070308000	1.01	26	83	9	42	-1	25	0
02699000080308000	0.99	36	134	32	106	1	40	1
02699000090308000	1.05	42	141	35	154	-1	55	1
02699000100308000	1.01	38	116	28	100	-3	46	2
02699000120308000	0.96	41	131	32	143	-5	57	5
02699000130308000	1.04	31	94	24	82	-4	42	1
02699000140308000	1.03	25	69	15	80	-4	34	0
02699000150308000	0.94	33	109	26	104	-4	46	3
02699000160308000	1.01	53	139	35	133	-5	65	2
03201001020301164	1.01	26	71	22	68	0.	28	0
03201003300301162	1.07	24	68	25	82	0.	28	0
03201003340301113	1.01	43	123	35	98	1	44	1
03201003350301162	0.97	23	67	19	60	0.	23	0
06201000020315144	0.86	154	306	225	436	-14	228	202
06201000030315144	0.90	129	249	210	459	-18	214	168

Annual Report 81

First characteristics of the time series
Pollutant 4: Acid (column caption: see A5.1)

Station code PPCVVEESSSPLTMSIT	S/W no.	summer		winter		regression		persist. no
		50	98	50	98	slope	int.	
01201000010403163	1.02	47	127	109	248	-2	86	24
01201000020403000	1.03	38	88	64	217	-4	65	5
01201000080403152	1.04	28	83	36	122	-0.	38	0
01201000140403121	1.06	18	51	20	130	-5	33	0
01201000170403000	1.02	32	89	54	195	-0.	51	5
01201000220403153	1.02	16	61	42	180	3	32	2
01201000260403163	0.76	33	92	39	186	-11	64	6
01301008010403154	0.98	59	284	79	183	7	68	16
01301008090403144	1.09	57	139	101	215	2	80	12
01301008120403142	1.09	41	108	57	162	3	49	2
01301008130403143	1.09	48	124	82	178	7	55	1
01301008180403114	1.01	63	122	96	219	3	77	10
01301008260403112	1.00	78	214	73	247	25	40	16
01401005010403144	1.19	28	69	30	111	3	27	0
01401005040403152	1.09	26	196	38	188	-2	48	2
01401005050403154	0.99	35	78	46	203	1	46	4
01401005090403152	1.01	53	181	66	165	9	49	11
01401005130403162	1.06	31	82	36	178	-6	54	2
01401005140403162	1.01	40	92	58	155	-4	62	4
01402007010403114	0.88	53	135	64	169	-5	75	5
01402007060403112	0.82	53	116	49	120	4	50	0
01402007070403143	0.91	49	165	56	180	0.	59	11
01402007090403143	0.94	68	173	58	135	-2	73	7
01402007120403144	0.93	56	188	64	203	0.	73	8
01402007150403113	0.90	60	169	68	154	-0.	74	1
01403002290403154	1.15	72	130	90	280	-6	101	10
01403002300403142	1.05	49	82	63	253	2	58	5
01501006050403141	1.01	36	91	51	173	3	43	6
01502006030403123	1.01	24	98	59	198	-4	57	8
01503003020403241	1.11	24	53	32	83	-4	37	0
01504004040403163	1.05	31	87	36	122	-6	50	1
01504004050403144	1.05	30	112	47	148	2	41	2
01504004110403000	1.01	49	90	55	121	-2	57	0
04101000110408172	0.97	41	85	73	220	-9	81	9
04101000170408143	0.89	55	135	97	287	-12	113	34
04101000490408144	1.01	37	105	81	236	-11	88	17
04101000650408173	1.21	57	130	84	355	-22	117	23
04101000970408163	0.99	42	97	74	235	-10	82	13
04302000120408163	1.01	32	105	66	174	1	52	6
04302000150408114	1.01	26	83	47	174	6	35	6
04302000190408112	0.95	21	100	41	161	0.	36	4
04302000230408113	0.97	42	99	72	197	3	58	7
04401000010408144	1.12	24	47	35	103	-5	42	0
04401000020408114	1.14	31	52	32	90	-5	42	0
04401000040408143	1.03	29	55	33	96	-0.	35	0
04401000080408113	0.99	48	102	32	65	3	38	0
04401000320408144	1.29	14	63	39	184	-15	56	7
04401000330408153	1.17	7	29	25	140	-0.	23	2

Annual Report 81

First characteristics of the time series
Pollutant 4: Acid (column caption: see A5.1)

Station code PPCVVEESSPLTMSIT	S/W no.	summer		winter		regression		persist. no
		50	98	50	98	slope	int.	
04402000120411161	1.02	12	267	10	324	-6	53	9
04402000210411212	1.02	55	254	46	385	-12	92	13
04402000290411213	0.97	22	114	27	130	-5	44	0
04402000310411162	1.05	23	334	28	299	5	51	8
04402000320411113	1.00	62	506	70	385	-2	115	36
04402000430411163	1.02	30	377	34	370	-2	78	14
04404000010411164	1.03	17	64	30	233	-4	42	2
04404000040411163	0.99	28	81	77	231	5	50	8
04404000060411163	1.01	24	74	47	190	-9	61	4
04404000070411112	0.96	32	163	77	316	13	49	13
04404000080411113	1.01	19	111	22	276	-6	50	6
04501000250408112	1.05	1	134	1	98	-9	33	0
04501000260408112	1.01	2	51	13	67	-5	25	0
04501000310408112	0.83	9	35	21	168	9	9	3
05301000020404164	1.02	94	162	76	220	11	73	5
05301000070404111	1.00	45	93	40	111	6	35	0
05301000100404142	1.03	56	85	40	83	3	43	0
05301001030404000	1.05	66	133	69	153	-7	86	1
05501000010406122	1.14	6	25	12	41	1	11	0
09101000150407152	0.96	43	129	36	159	-14	75	0
09101001060407240	0.99	46	88	37	121	-0.	49	0
09101003040407160	1.02	44	130	67	243	-2	69	7
09102001110407124	0.99	65	139	96	230	6	77	31
09102002130407150	0.97	44	122	76	198	-0.	72	11
09103000190407133	1.08	55	133	75	201	-1	73	4
09103001100407140	1.10	35	122	43	201	2	45	7
09103002090407260	1.01	51	127	37	156	-0.	47	1
09103003170407150	1.02	56	157	65	247	9	55	5
09103003180407160	0.99	33	138	53	177	4	46	1
09201000200407120	1.01	50	102	68	254	10	50	10
09201000680407150	1.01	45	95	53	235	7	47	5
09201000730407150	1.01	31	58	39	130	6	28	1
09202002080407210	1.08	38	117	26	161	-2	48	0
09202003220407150	1.00	41	130	58	210	-2	66	7
09202004040407140	0.96	33	116	34	247	2	43	13
09301000180407160	1.01	41	119	66	171	-1	63	0
09301000300407140	1.01	36	98	42	141	2	44	0
09303001310407110	0.99	40	120	50	143	-1	53	0
09303002060407160	1.03	28	71	39	129	-6	52	0
09303003040407160	1.02	18	43	23	85	-3	29	0
09401000110407130	1.01	29	70	30	106	-0.	35	0
09401000150407140	1.01	17	39	18	48	2	17	0
09401000330407150	1.02	27	76	29	70	3	26	0
09402000090407174	1.34	47	100	58	148	7	42	0
09402000100407150	0.85	35	93	41	109	3	36	0
09402000110407241	1.01	25	42	19	36	0.	23	0
09402000120407143	0.95	30	69	45	110	-3	46	0
09403000120407150	1.03	19	63	35	104	-0.	34	0

Annual Report 81

First characteristics of the time series
Pollutant 4: Acid (column caption: see A5.1)

Station code PPCVVEESSPLTMSIT	S/W no.	summer		winter		regression		persist. no
		50	98	50	98	slope	int.	
09403000170407240	1.03	12	45	21	65	-2	25	0
09403000200407160	1.03	19	62	41	139	5	29	1
09404000050407241	0.97	29	59	28	81	-5	41	0
09404000080407240	0.88	35	78	45	93	0.	42	0
09405000090407154	1.01	34	91	43	109	-0.	43	0
09405001140407240	1.00	13	44	22	78	-0.	23	0
09405002010407242	1.01	16	39	16	47	0.	18	0
09405002290407150	1.01	21	44	22	53	5	13	0
09405003100407160	1.01	15	50	28	60	-6	35	0
09501000090407150	1.02	77	118	94	207	3	86	19
09502000020407140	0.98	25	47	33	67	-0.	30	0
09505000050407170	0.92	28	83	53	139	4	41	1
09699000010407301	1.01	10	23	11	24	1	8	0
09699001270407301	1.05	28	85	40	120	5	31	0
09699002010407301	0.97	23	44	27	52	-1	27	0
09699003000407301	1.00	14	21	8	18	0.	11	0
09699006010407301	0.95	21	74	25	130	-0.	32	1
09699008010407301	1.18	37	76	41	146	9	31	0

Annual Report 81

ANNUAL CHARACTERISTICS OF THE SERIES (year: 1981)**Annex 6: Status of the isolated extremum of the monthly median values**

Column caption:

<u>Label</u>	<u>Explanation</u>
Station code	PPCVVEESSSPLTMSIT: PP country code C town class code VV town code EE always zero SSS station code PL pollutant code TM measurement technique code SIT situation code
Status code	The status code found in the following Annex is a scaling of the isolation tendency of the extreme monthly median values with respect to the spreading of the other monthly medians (see explanation in Chapter II.4).

141

Annual Report 81

ABBREVIATED DESCRIPTIVE TABLES

(based on Commission file TSA)

POLLUTANTS

000000000100 SO₂
 000000000200 SMOKE
 000000000300 SPM
 000000000400 ACID

COUNTRY/CLASS OF TOWN/TOWN

0100000000 BELGIQUE - BELGIE
 0120000000 1-2 M
 0120100000 BRUXELLES
 0130000000 0.5-1 M
 0130100000 ANTWERPEN
 0140000000 0.1-0.5 M
 0140100000 CHARLEROI
 0140200000 GENT
 0140300000 LIEGE
 0150000000 <0.1 M
 0150100000 BRUGGE
 0150200000 KORTRIJK
 0150300000 LIBRAMONT
 0150400000 NAMUR

0200000000 BUNDESREPUBLIK DEUTSCHLAND
 0210000000 >2 M
 0210100000 BERLIN (WEST)
 0220000000 1-2 M
 0220100000 MUELNCHEN, BAYERN
 0230000000 0.5-1 M
 0230100000 DORTMUND
 0230200000 DUISBURG
 0230300000 DUESSELDORF
 0230400000 FRANKFURT-AM-MAIN
 0230500000 NUERNBERG, BAYERN
 0230600000 STUTTGART
 0240000000 0.1-0.5 M
 0240100000 AUGSBURG, BAYERN
 0240200000 ERLANGEN, BAYERN
 0240300000 KARLSRUHE
 0240400000 KASSEL, HESSEN
 0240500000 LUDWIGSHAFEN
 0240600000 MANNHEIM
 0240700000 REGENSBURG, BAYERN
 0240800000 WIESBADEN, HESSEN
 0240900000 WUERZBURG, BAYERN
 0241000000 INGOLSTADT, BAYERN
 0241100000 FUERTH, BAYERN
 0241200000 MAINZ

Annual Report 81

0241300000 FREIBERG
0250000000 <0.1 M
0250100000 ASCHAFFENBURG
0250200000 KELHEIM, BAYERN
0250300000 HEILBROENN
0250400000 ULM
0250500000 SPEIZER
0250000000 HINTERGRUNDKLASSE
0269900000 HINTERGRUNDKLASSE

0300000000 **DANMARK**
0320000000 1-2 M
0320100000 KOBENHAVN

0400000000 **FRANCE**
0410000000 >2 M
0410100000 PARIS
0420000000 1-2 M
0420200000 MARSEILLE
0430000000 0.5-1 M
0430200000 LILLE-ROUB.-TOURC.
0440000000 0.1-0.5 M
0440100000 CLERMONT-FERRAND
0440200000 LE HAVRE
0440400000 ROUEN
0450000000 <0.1 M
0450100000 CALAIS

0500000000 **IRELAND**
0530000000 0.5-1 M
0530100000 DUBLIN
0550000000 <0.1
0550100000 GALWAY

0600000000 **ITALIA**
0610000000 >2 M
0610100000 MILANO
0620000000 1-2 M
0620100000 TORINO
0630000000 0.5-1 M
0630200000 GENOVA
0640000000 0.1-0.5 M
0640400000 BOLZANO
0640800000 PESCARA
0650000000 <0.1 M
0650900000 PISTOIA
0651400000 VERCELLI

0700000000 **LUXEMBOURG**
0750000000 <0.1 M
0750100000 LUXEMBOURG-VILLE
0750200000 ESCH-SUR-ALZETTE
0750300000 STEINFORT

Annual Report 81

0800000000 **NEDERLAND**
0830000000 0.5-1 M
0830100000 AMSTERDAM
0830200000 DEN HAAG
0830300000 ROTTERDAM
0840000000 0.1-0.5 M
0840100000 ENSCHEDE
0840200000 GRONINGEN
0840300000 TILBURG
0840400000 UTRECHT
0850000000 <0.1 M
0850100000 BUSSUM
0850200000 DEN BOSCH
0850300000 HILVERSUM
0850400000 MAASTRICHT
0850500000 MIDDELBURG
0850600000 ZWOLLE
0860000000 KL. ACHTERGRONDMET.
0869900000 LIG.ACHTERGRONDMET.

0900000000 **UNITED KINGDOM**
0910000000 >2 M
0910100000 GREATER LONDON
0910200000 GREATER MANCHESTER
0910300000 W.MIDL.CONURBATION
0920000000 1-2 M
0920100000 GLASGOW+SURROUNDINGS
0920200000 MERSEYSIDE CONURB.
0930000000 0.5-1 M
0930100000 LEEDS
0930200000 SHEFFIELD
0930300000 TYNESIDE
0940000000 0.1-0.5 M
0940100000 BELFAST
0940200000 CARDIFF
0940300000 EDINBURGH
0940400000 PORTSMOUTH
0940500000 TEESSIDE
0950000000 <0.1 M
0950100000 BARNSELY
0950200000 BATH
0950300000 BEDFORD
0950500000 LINCOLN
0960000000 BACKGROUND CLASS
0969900000 BACKGROUND SITES



