RADIATION PROTECTION No. 201

ISSN 1831-9424
ISSN 2315-2826

Nuclear Science and Technology

Environmental Radioactivity in the European Community 2015-2020

DG ENER: Nuclear Energy, Safety and ITER
DG JRC: Nuclear Safety and Security

2023

European Commission

EUR 31768 EN

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This work was performed as part of the REM (Radioactivity Environmental Monitoring) programme in the framework of JRC Support actions to Commission Services, DG ENER Luxembourg

European Commission

2023

EUR 31768 EN

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EU Science Hub
https://joint-research-centre.ec.europa.eu

JRC135787

EUR 31768 EN

PDF	ISBN 978-92-68-10117-9	ISSN 1831-9424 (Science for Policy) ISSN 2315-2826 (Radiation protection)	doi:10.2760/761877	KJ-NA-31-768-EN-N

Luxembourg: Publications Office of the European Union, 2023

How to cite this report: Rood, B. M., Martino, S., Guglielmelli, A., De La Rosa Blul, J. C., De Cort, M., Tollefsen, T., Marin Ferrer, M., Vanzo, S., Hernandez Ceballos, M. A., Cinelli, G., Sangiorgi, M., Nweke, E., De Felice, L., Tognoli, P. V. and Tanner, V., *Environmental Radioactivity in the European Community 2015-2020*, Publications Office of the European Union, Luxembourg, 2023, doi:10.2760/761877, JRC135787.

PREFACE

Under the terms of Article 36 of the Euratom Treaty, European Union Member States shall periodically communicate to the Commission information on environmental radioactivity levels on their national territory. Since the early 1960s, the Commission has compiled and published this information as a series of reports. The current report, covering the years 2015 to 2020, is the 36th in the series.

This report endeavours to improve the clarity of information on levels of radioactivity in the European environment by making use of standardised reporting levels. These reporting levels are supported by more detailed radioactivity levels from a limited number of stations that provide high sensitivity measurements.

As part of its DG Energy support programme, the Directorate for Nuclear Safety and Security of the EC Joint Research Centre (JRC) has introduced all environmental radioactivity results received from the Member States into the Radioactivity Environmental Monitoring (REM) database. The JRC collated, checked and loaded the data, prepared the tabulations and figures as appropriate and provided the draft of the report. I would like to express my gratitude for the JRC's assistance and for the co-operation provided by the national authorities who supplied the original data.

This report is addressed to all who are concerned with radioactivity in the European environment.

M. Garribba
Deputy Director-General
Responsible for the coordination
of Euratom policies and Energy
Union financing instruments
Directorate-General Energy

CONTENTS

I INTRODUCTION

A. General

This report presents a summary of the available data on levels of radioactivity in some environmental media in the European Union (EU) Member States for the years 2015 - 2020. These data are obtained from official reports published by the responsible authorities and from data transmitted directly to the Commission by the national authorities and from individual laboratories. Member States provide environmental radioactivity data to the EU to comply with Articles 35 and 36 of the Euratom Treaty (see Appendix A). Continuous or semi-continuous monitoring of air and water is undertaken in Member States. Monitoring of food products, such as milk or mixed diet is considered an acceptable surrogate for the Article 35 requirement to monitor soil[1].

Individual monitoring laboratories tend to retain measurement techniques that have proven reliable over the years and are of sufficient sensitivity for radiological protection purposes. Measurement techniques, and thus measurement sensitivities, may, therefore, vary between laboratories and countries. This can make the interpretation and comparison of data across Europe difficult.

In order to facilitate the presentation of the results, it has been agreed[2] to use uniform reporting levels (see Appendix B) as a benchmark. If the results for a certain sample type - radionuclide combination are above their corresponding reporting level (RL), then the measured values are stated in this report. Otherwise they are reported as "< RL". Measured values are submitted either as a specific number or as known to be less than a certain value. When only known to be less than a certain value, the measured value is referred to as a constraint (<) value. Constraint (<) values above the corresponding reporting level are not considered in the calculations for this report. If the results for a certain sample type - radionuclide combination consist only of constraint (<) values above the reporting level, this is indicated with the Δ symbol in data tables. The reporting levels used in this report were derived such that they would indicate a resultant effective dose value of 1/1000th of a mSv (0.001 mSv).

It must be emphasised that the reporting levels are only meant to be a tool for presenting data and should not be confused with maximum permitted levels of radioactive contamination.

Radiation in the environment comes from space, from the earth, from air, from water, food and other natural sources. It also comes from radioactive waste, consumer products, atmospheric nuclear weapons testing and other artificial sources. Ionising radiation from natural and artificial sources do not differ in kind or effect on humans. The world average effective dose from all sources of radiation is 3.0 millisievert (mSv) per year (2.4 mSv for natural sources and 0.6 mSv for artificial)[3] [2]. Across the Member States of the European Community the annual effective dose for members of the public from natural sources ranges from about 1.5 mSv to just above 6 mSv, with a population-weighted average annual effective dose of 3.2 mSv[4] [2].

In normal circumstances, variations in time and space for the data from the many sampling locations which are distributed all over the Member States' territories (referred to as the "**dense network**"[5] [1]) are gradual. For this reason daily, weekly or even monthly variations per sample location are not of radiological significance. The data are therefore presented as regional averages (Table 1) except for surface water where on single sample locations is reported.

Although most values are below reporting levels, it is valuable to present the actual concentrations for a small number of locations. This allows any trends in radionuclide concentrations to be monitored over time. To achieve this, a number of representative locations were selected, this is referred to as the "**sparse network**"[6] [1]. High sensitivity measurements are performed at these locations and the individual results are presented graphically.

As in the previous report [3], the following combinations of sample and radionuclide categories are reported, as per the Commission Recommendations to Article 36 of the Euratom Treaty (2000/473/Euratom) [1] also mentioned in Appendix A:

Sampling media	Radionuclide categories	
	Dense network	Sparse network
airborne particulates	gross ß ^{137}Cs	^{7}Be ^{137}Cs
surface water	residual ß ^{137}Cs	^{137}Cs
drinking water	^{3}H ^{90}Sr ^{137}Cs	^{3}H ^{90}Sr ^{137}Cs
milk	^{90}Sr ^{137}Cs	^{90}Sr ^{137}Cs
mixed diet	^{90}Sr ^{137}Cs	^{90}Sr ^{137}Cs

1 According to [1], "The monitoring of levels of radioactivity in soil does not allow a direct assessment of the exposure of the population. The exposure related to soil contamination is more directly assessed on the basis of ambient dose rate and foodstuff contamination. Experience has shown that the incorporation of soil data in the monitoring serves little useful purpose".

2 Official Journal of the European Communities L 191, 27.07.2000, p. 9 (Annex III).

3 European Atlas of Natural Radiation, Publication Office of the European Union, Luxembourg, 2019, p. 32.

4 European Atlas of Natural Radiation, Publication Office of the European Union, Luxembourg, 2019, p. 173.

5 Official Journal of the European Communities L 191, 27.07.2000, p. 2.

6 Official Journal of the European Communities L 191, 27.07.2000, p. 2.

However, not all of the above combinations of sample and nuclide type are routinely monitored by each Member State.

Every effort has been made to collect all the available data, thus, most of the blank entries correspond to the absence of measurements. In some cases, the available results may have not been received.

All the radionuclides sampled, except strontium-90 (^{90}Sr) and caesium-137 (^{137}Cs), can be of either natural or artificial origin. The two exceptions are of artificial origin, mainly from past atmospheric weapons testing and from radioactive routine or accidental discharges from nuclear facilities.

The sampling locations incorporated in this report are intended to be as representative as possible of regional or national situations. However, while measurements local to and possibly influenced by nuclear installations have been discounted wherever practical, in certain cases national data are strongly dependent on such monitoring programmes.

B. Structure of the report

This report is composed of three main parts:

The **text part** consists of a general introduction followed by one chapter for each medium; this includes general information on the sample type, the occurrence of natural radionuclides therein, a description of sample preparation and analysis and a short discussion of the results.

The **results** are presented by sample and nuclide type, sample types are identified with appropriate symbols. All data from the dense network is presented, followed by that from the sparse network.

- The dense network results are presented graphically (with the exception of surface water as this sample type does not allow for geographical presentation) and in tabular form. The graphical representation illustrates the annual average radioactivity concentrations for each geographical region (see Section C). Four shades are used to indicate the concentrations on a scale ranging from less than the reporting level to ten times the reporting level. In addition, each sampling location is indicated. Next to the graphical representation the results are presented in tabular form. These results are averaged over geographical regions and over a particular time period (quarter, semester or whole year, depending on the availability of data). The total number of sampling locations and the number of measurements used to calculate the annual averages are given for each geographical region. In addition, the monthly maximum and the month in which this occurred are given for those values above the appropriate reporting level.
- The results for the sparse network are preceded by a map illustrating the sampling locations. The data are presented as time versus activity concentration graphs from 1984 onwards (where the data is available). Between one and three nearby locations are illustrated on each graph. Full lines represent actual sampling periods whereas dotted lines link measurement results over unsampled time periods. The appropriate reporting level is indicated by a horizontal line. The choice of 1984 as a start date enables the pulse of radioactivity which entered the environment of the EU from the 1986 Chernobyl accident in the Ukraine to be seen clearly.

The **appendices** to this report provide additional information on the Euratom Treaty, the calculation of reporting levels, the averaging procedures used, the data sources, the bibliography and information about the REM data bank. The addresses of the national authorities and laboratories that contributed to this report are given in Appendix D, while the national reports of environmental monitoring data are given in Appendix E. All data presented in this report are also stored in the REM data bank, at the JRC-Ispra, Italy (see Appendix F), and can be accessed with the REMdb online query described in the "Related Information" section at the end of this introduction.

Finally, and with the aim of enlarging the readership of this report, a glossary provides background information on frequently used terms in radiation protection.

C. Geographical divisions

For the larger Member States the data is divided according to geographical divisions. The partitioning of Croatia, Germany, Finland, France, Italy, Poland, Romania, Spain, Sweden and the United Kingdom has been based on administrative regions (Table 1) and results in a total of 47 geographical divisions of the EU (Figure 1).

II. AIRBORNE PARTICULATES

Airborne radioactive materials may occur in either gaseous or particulate form. In general, the latter is of greater potential radiological significance because it may be deposited and hence remain in the local environment. Consequently, most national routine monitoring networks measure only the particulate component. Atmospheric radioactivity is dominated by the naturally occurring, short-lived particulate decay products of gaseous radon (Rn = 1 to 20 Bq m^{-3} in outdoor air) [2]. Measurements of "total beta" radioactivity in airborne particulates must allow for this naturally occurring radioactivity. Other naturally occurring radionuclides measured in airborne particulates include beryllium-7 (^{7}Be) and potassium-40 (^{40}K).

Airborne particulate **sampling** is carried out by pumping air through filters at a flow rate of several hundred cubic meters per day. In most countries filters are changed daily and analysed for total beta activity following the decay of radon decay products. Individual radionuclide analyses are performed weekly, monthly or quarterly. Man-made alpha-emitting aerosols are rarely measured by routine monitoring networks as they are usually undetectable, even close to the nuclear installations where they are produced. Therefore, these measurements are not presented in this report. The sampling locations in the EU for gross beta and ^{137}Cs, considered in this report, are illustrated on the maps in figs. A1 – A6 and A7 – A12, respectively.

Minimal **treatment** of the air filters is required, on the whole, they are measured directly or they may be ashed or compressed to improve the counting geometry and hence counting efficiency.

Results: Most Member States have provided **gross beta (gross-ß)** data (Tables A1 – A6) and $\mathbf{^{137}Cs}$ data (Tables A7 – A12) for the dense network. For the sparse network those stations were selected that provide a good coverage of the European territory and for which measurable concentrations were reported. The results for the naturally occurring $\mathbf{^{7}Be}$ and artificial radionuclide $\mathbf{^{137}Cs}$ are given in Figures A14 to A28 and Figures A29 to A43, respectively. The ^{137}Cs activity concentration trends clearly show the 'Chernobyl peak' (26 April - 10 May 1986), followed by a return to pre-Chernobyl concentration values. The Chernobyl-peak values may differ by several orders of magnitude at different locations, due to differences in the airborne activity and also differences in the sampling time used (ranging from hours to weeks).

III. SURFACE WATER

Surface water is one of the compartments into which authorised discharges of radioactive effluents from nuclear installations are made. Radionuclides in surface waters can be found in the water phase or associated with suspended particles and can eventually become incorporated into sediments and living species. Natural radionuclides in river water include ^{3}H at levels of 0.02 - 0.1 Bq l^{-1}, ^{40}K (0.04 - 2 Bq l^{-1}), radium, radon and their short-lived decay products (< 0.4 - 2 Bq l^{-1}). The main fraction of tritium (^{3}H) in surface water however is due to man's activities.

Samples are either taken continuously and bulked for monthly or quarterly analysis, or alternatively, spot samples are taken periodically several times a year and analysed individually. Some laboratories remove suspended material from the water sample for separate analysis.

Treatment of the water may consist of filtration or evaporation (for direct measurement of the residue), ion-exchange and subsequent washing of the ion exchange column. More elaborate chemical separation techniques are used to determine radionuclides such as strontium-90 (^{90}Sr). To determine ^{3}H concentrations, generally the water is multiple distilled.

Results: Most of the sampling locations considered (Fig. S1 to S10) lie on rivers into which authorised discharges of radioactive effluents are made. Surface water samples may, therefore, contain detectable radioactive contaminants traceable to installations at appreciable distances upstream from the sampling locations and this appears to be reflected in some cases in the results obtained. Furthermore, this has the effect of clouding the usual distinction made between sampling carried out for the purposes of general environmental monitoring and that for the surveillance of nuclear power plants. Nevertheless, since the rivers in question are all water courses of major significance, the results have been considered to be nationally representative.

The results on beta activity given here (Tables S1 – S36) refer to **residual-ß** (total beta less natural ^{40}K activity). For France, the national reports indicate total beta for the water phase and for suspended matter, and the potassium content separately; the residual beta activity was calculated using a conversion factor of 27.6 Bq g^{-1} potassium. Also $\mathbf{^{137}Cs}$ is reported (Tables S37 – S72).

For the sparse network those stations were selected for which measurable concentrations of ^{137}Cs were reported and which provided a good coverage of the European territory on major rivers and in the sea (Fig. S11). The results are presented in Figs. S12 to S27.

It should be noted that while some above average values appear to be associated with discharges from nuclear installations the results are still well below levels which might be considered of any significance in terms of health.

IV. DRINKING WATER

Drinking water is monitored because of its vital importance for man, even though a severe radioactive contamination of this medium is rather improbable. The most important natural radionuclides in drinking water are ^{3}H (0.02 - 0.4 Bq l^{-1}), ^{40}K (typically 0.2 Bq l^{-1} but varies greatly), radium, radon and their short-lived decay products (0.4 - 4.0 Bq l^{-1}). Occasionally, the presence of ^{3}H and radium may also be due to man's activities.

Samples may be taken from ground or surface water supplies, from water distribution networks, mineral waters etc. Spot samples are taken a few times a year and analysed individually or samples are taken daily and bulked for monthly or quarterly analysis.

Sample **treatment** usually consists of sample evaporation for direct measurement of the concentrate or separation on ion-exchange columns. More elaborate chemical separations are required for ^{90}Sr determination, whereas ^{3}H is generally measured following multiple distillation of the sample.

Results: $\mathbf{^{3}H}$ values are presented in Tables W1 – W6. For the sparse network, thirty stations reported measured concentrations (Figs. W20 to W34). For $\mathbf{^{90}Sr}$ the levels are shown in Tables W7 – W12 and, for the sparse network, in Figs. W35 to W44. For $\mathbf{^{137}Cs}$ the results are presented in Tables W13 – W18 and, for the sparse network, in Figs. W45 to W57.

V. MILK

Consumption of milk and dairy products has been shown to be one of the most important pathways for uptake of radionuclides from environment to man.

Samples are mostly taken at dairies covering large geographical areas in order to obtain representative samples. They are generally taken on a monthly basis; but sometimes only during the pasture season. The samples may be analysed separately or bulked for regional or national average evaluations.

Treatment usually consists of drying the sample for gamma spectroscopic analysis and chemical separation for ^{90}Sr.

Results: Generally the concentrations of the stable elements calcium (Ca) and potassium (K) are determined because of the similarity of their metabolic behaviour with strontium (Sr) and caesium (Cs) respectively. Typical values in milk are 1 to 2 g l^{-1} for calcium and potassium. The average radioactive concentrations reported in the tables were mainly calculated from data which were themselves averages in time (daily, weekly or monthly) and space. For **^{90}Sr** quarterly averages are shown in Tables M1 – M6. **^{137}Cs** quarterly averages are presented in Tables M7 - M12.

VI. MIXED DIET

The aim of measuring radioactivity in mixed diet is to get "integral" information on the uptake of radionuclides by man via the food chain. Rather than expressing the radioactivity content of foodstuffs per unit weight, it is more appropriate to estimate the activity consumed per day per person (Bq d^{-1} p^{-1}). An important natural radionuclide is ^{40}K (typically 100 Bq d^{-1} p^{-1}).

Foodstuffs can be measured as separate ingredients. However, due to differences in the composition of national diets, the trend is to sample complete meals to give a representative figure for the contamination of mixed diet. Nevertheless knowledge of the contamination of the individual ingredients together with the composition of the national diet can also lead to a representative figure.

Samples are taken as ingredients or as complete meals, mostly at places where many meals are consumed (i.e. factory restaurants, schools).

Treatment usually consists of mixing the sample prior to gamma spectroscopic measurement of ^{137}Cs and chemical separation to determine the ^{90}Sr activity.

Results: Generally the concentrations of the stable isotopes of calcium and potassium are determined because of the similarity of their metabolic behaviour with strontium and caesium, respectively. Typical values in mixed diet are 0.7 to 1.5 g d^{-1} person^{-1} for calcium and 3 to 4 g d^{-1} person^{-1} for potassium. For **^{90}Sr** the quarterly averages are shown in Tables D1 – D6. The sparse network results are presented in Figs. D14 – D25. **^{137}Cs** quarterly averages are given in Tables D7 – D12. The measurements reported by the sparse network stations shown in the report clearly show a decreasing trend of caesium contamination in mixed diet after the Chernobyl accident (Figs. D26 to D39).

RELATED INFORMATION

Monitoring Reports available in electronic format

The list of all the published (and downloadable) Monitoring Reports is available here:

https://remon.jrc.ec.europa.eu/About/Environmental-Monitoring/Monitoring-Reports-Download

REMdb online query

Although the Monitoring Reports describe the collected information as complete as possible, this communication medium does not allow to show the amount of data in all its details. A new interface, called REMdb Query, provides an interactive access to the collected and verified environmental monitoring data in the European Union.

The new interface can be accessed from the "Maps" section, Routine Monitoring icon of web site https://remon.jrc.ec.europa.eu/ or directly from:

https://remap.jrc.ec.europa.eu/Routine.aspx

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3. M. De Cort, T. Tollefsen, M. Marin Ferrer, J. C. De La Rosa Blul, S. Vanzo, M. A. Hernandez Ceballos, G. Cinelli, E. Nweke, B. Rood, L. De Felice, S. Martino, P. V. Tognoli and V. Tanner, "Environmental Radioactivity in the European Community 2012-2014", EUR 31338, 2023

Fig . 1
Definition of the geographical regions used in the data tables and figures

Table 1

Definition of country partitions. Country codes according to ISO 3166/4217

Country	Short description	Detailed description
AT	Austria	
BE	Belgium	
BG	Bulgaria	
CY	Cyprus	
CZ	Czech Republic	
DE-N	Germany - North	Bremen, Hamburg, Mecklenburg-Vorpommern, Niedersachsen and Schleswig-Holstein
DE-C	Germany - Central	Hessen, Nordrhein-Westfalen, Rheinland-Pfalz and Saarland
DE-S	Germany - South	Baden-Württemberg and Bayern
DE-E	Germany - East	Berlin, Brandenburg, Sachsen, Sachsen-Anhalt and Thüringen
DK	Denmark	
EE	Estonia	
ES-N	Spain - North	Aragon, Asturias, Cantabria, Galicia, Navarra, Pais Vasco and Rioja
ES-C	Spain - Central	Castilla - La Mancha, Castilla - Leon, Extramadura and Madrid
ES-S	Spain - South	Andalucia, Canarias, Ceuta y Melilla and Murcia
ES-E	Spain - East	Baleares, Cataluña and C. Valenciana
FI-N	Finland - North	Lapland and Oulu
FI-S	Finland - South	Western Finland, Eastern Finland, Southern Finland
FR-NW	France - Northwest	Bretagne, Centre, Ile de France, Nord-Pas-de-Calais, Haute Normandie, Basse Normandie, Pays de la Loire and Picardie
FR-NE	France - Northeast	Alsace, Bourgogne, Champagne-Ardennes, Franche-Comté and Lorraine
FR-SW	France - Southwest	Aquitaine, Languedoc-Roussillon, Limousin, Midi-Pyrénées and Poitou-Charentes
FR-SE	France - Southeast	Auvergne, Corse, Provence-Alpes-Côte-d'Azur and Rhône-Alpes
GB-EN	United Kingdom - England	
GB-WL	United Kingdom - Wales	
GB-SC	United Kingdom - Scotland	
GB-NI	United Kingdom - Northern Ireland	
GR	Greece	
HR-A	Croatia - Adriatic	Primorsko-goranska, Licko-senjska, Zadarska, Šibensko-kninska, Splitsko-dalmatinska, Istarska, Dubrovacko-neretvanska
HR-C	Croatia - Continental	Grad Zagreb, Zagrebacka, Krapinsko-zagorska, Varaždinska, Koprivnicko-križevacka, Medimurska, Bjelovarsko-bilogorska, Viroviticko-podravska, Požeško-slavonska, Brodsko-posavska, Osjecko-baranjska, Vukovarsko-srijemska, Karlovacka, Sisacko-moslavacka
HU	Hungary	
IE	Ireland	
IT-N	Italy - North	Emilia-Romagna, Friuli-Venezia-Giulia, Liguria,Lombardia, Piemonte, Trentino Alto Adige, Val d'Aosta and Veneto
IT-C	Italy - Central	Abruzzo, Lazio, Marche, Molise, Toscana and Umbria
IT-S	Italy - South	Basilicata, Calabria, Campania, Puglia, Sardegna and Sicilia
LT	Lithuania	
LU	Luxembourg	
LV	Latvia	
MT	Malta	
NL	The Netherlands	
PL-N	Poland - North	Kujawsko-Pomorskie, Lubuskie, Mazowieckie, Podlaskie, Pomorskie, Warminsko Mazurskie, Wielkopolskie, Zachodniopomorskie
PL-S	Poland - South	Dolnoslaskie, Lubelskie, Lodzskie, Malopolskie, Opolskie, Podkarpackie, Slaskie, Swietokrzyskie
PT	Portugal	
RO-N	Romania - North	Alba, Arad, Bacau, Bihor, Bistrita-Nasaud, Botosani, Brasov, Caras-Severin, Cluj, Covasna, Harghita, Hunedoara, Iasi, Maramures, Mures, Neamt, Salaj, Satu-Mare, Sibiu, Suceava, Timis and Vaslui
RO-S	Romania - South	Arges, Braila, Bucuresti-Ilfov, Buzau, Calarasi, Constanta, Dambovita, Dolj, Galati, Giurgiu, Gorj, Ialomita, Mehedinti, Olt, Prahova,Teleorman, Tulcea, Valcea and Vrancea
SE-N	Sweden - North	Övre Norrland and Mellersta Norrland
SE-S	Sweden - South	Stockholm, Östra Mellansverige, Sydsverige, Norra Mellansverige, Småland med öarna and Västsverige
SI	Slovenia	
SK	Slovakia	

DENSE

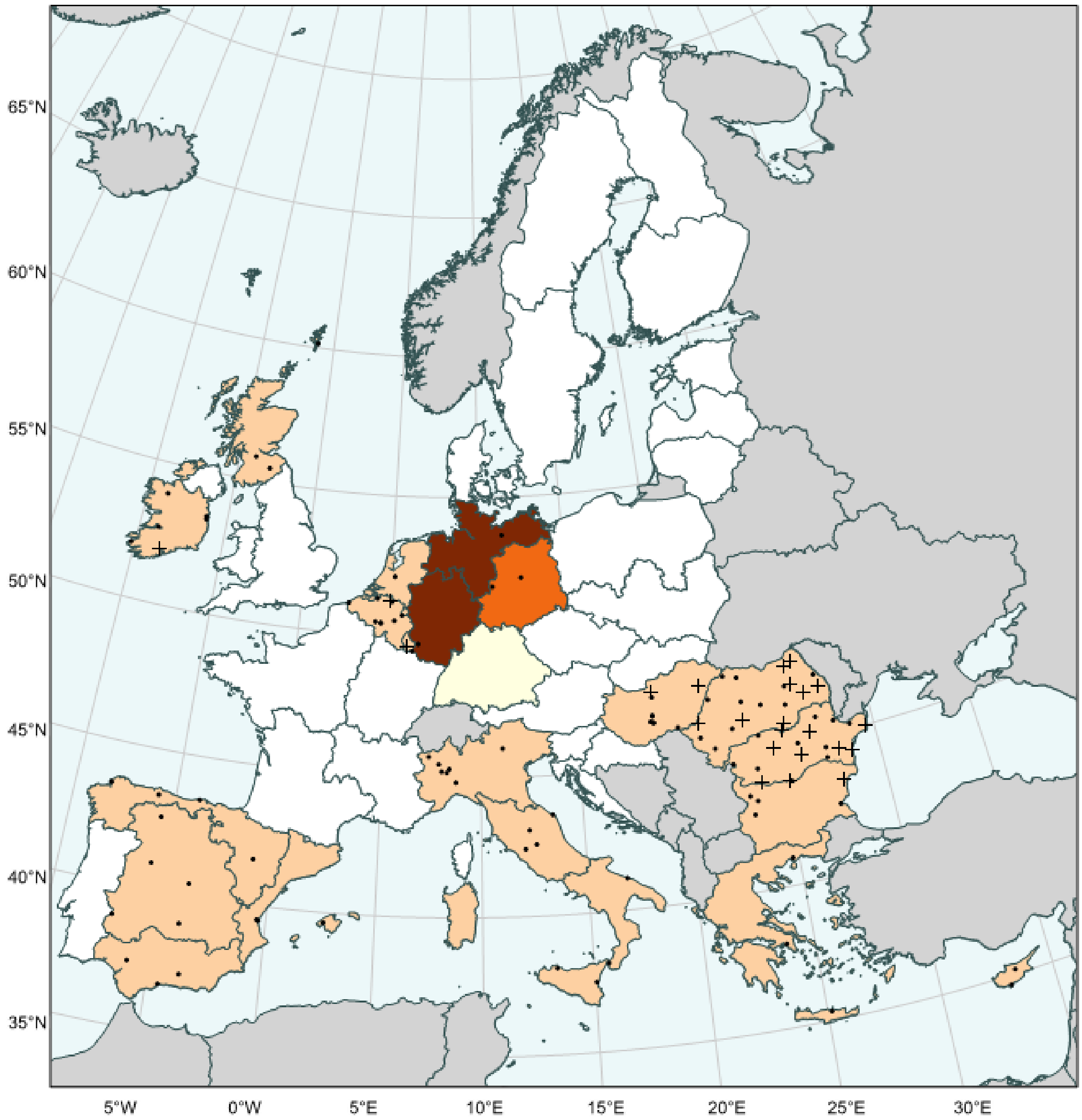
Fig. A1: Geographical and time averages

YEAR	:	2015
SAMPLE TYPE	:	airborne particulates (Bq m^{-3})
NUCLIDE CATEGORY	:	gross-β

EU (no relevant data reported)					annual avg.	<	0.005	Bq m^{-3}
EU (only relevant constraint values above the reporting level reported)		0.005	Bq m^{-3}	<=	annual avg.	<	0.015	Bq m^{-3}
		0.015	Bq m^{-3}	<=	annual avg.	<	0.05	Bq m^{-3}
Outside EU (in 2015)		0.05	Bq m^{-3}	<=	annual avg.			

. sample location (Coordinate Accuracy = Precise or Not Specified)

\+ regional average (Coordinate Accuracy = Reference Point of Region)



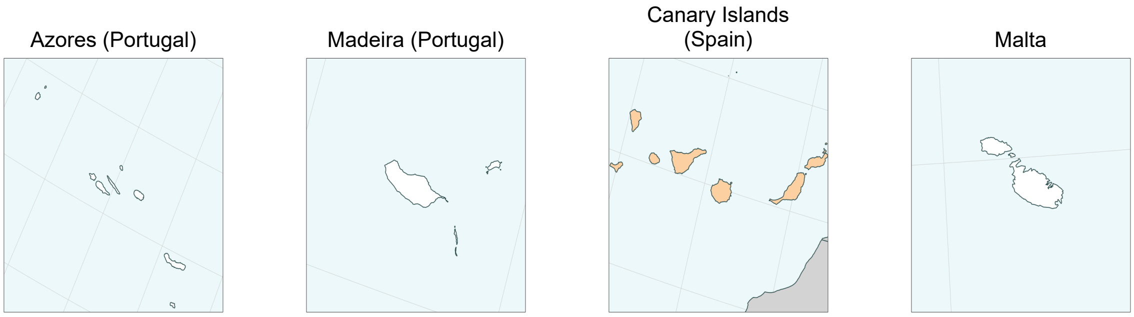


Table A1: Geographical and time averages

YEAR : 2015

SAMPLE TYPE : airborne particulates (Bq m^{-3})

NUCLIDE CATEGORY : gross-β

DENSE

Country	N	L	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual average	Monthly max	M
AT									
BE	2491	8	< RL	< RL	< RL	< RL	< RL	< RL	12
BG	12	6	< RL	< RL	< RL	< RL	< RL	< RL	9
CY	193	2	< RL	< RL	< RL	< RL	< RL	< RL	12
CZ									
DE-N	2	1			2.0E-01		2.0E-01	2.0E-01	7
DE-C	4	1				1.3E-01	1.3E-01	1.3E-01	12
DE-S							Δ		
DE-E	8	2	< RL	2.3E-02			1.4E-02	2.3E-02	4
DE	14	4	< RL	2.3E-02	2.0E-01	1.3E-01	8.9E-02	2.0E-01	7
DK									
EE									
ES-N	211	4	< RL	< RL	< RL	< RL	< RL	< RL	12
ES-C	261	5	< RL	< RL	< RL	< RL	< RL	< RL	12
ES-S	158	3	< RL	< RL	< RL	< RL	< RL	< RL	12
ES-E	158	3	< RL	< RL	< RL	< RL	< RL	< RL	12
ES	788	15	< RL	< RL	< RL	< RL	< RL	< RL	12
FI-N									
FI-S									
FI									
FR-NW									
FR-NE									
FR-SW									
FR-SE									
FR									
GB-EN									
GB-WL									
GB-SC	33	3	< RL	< RL	< RL	< RL	< RL	< RL	1
GB-NI									
GB	33	3	< RL	< RL	< RL	< RL	< RL	< RL	1
GR	343	3	< RL	< RL	< RL	< RL	< RL	< RL	8
HR-A									
HR-C									
HR									
HU	496	10	< RL	< RL	< RL	< RL	< RL	< RL	3
IE	72	6	< RL	< RL	< RL	< RL	< RL	< RL	11
IT-N	1219	7	< RL	< RL	< RL	< RL	< RL	< RL	12
IT-C	729	4	< RL	< RL	< RL	< RL	< RL	< RL	12
IT-S	554	4	< RL	< RL	< RL	< RL	< RL	< RL	8
IT	2502	15	< RL	< RL	< RL	< RL	< RL	< RL	12
LT									
LU	77	2	< RL	< RL	< RL	< RL	< RL	< RL	12
LV									
MT									
NL	53	1	< RL	< RL	< RL	< RL	< RL	< RL	10
PL-N									
PL-S									
PL									
PT									
RO-N	12896	19	< RL	< RL	< RL	< RL	< RL	< RL	1
RO-S	14076	18	< RL	< RL	< RL	< RL	< RL	< RL	1
RO	26972	37	< RL	< RL	< RL	< RL	< RL	< RL	1
SE-N									
SE-S									
SE									
SI									
SK									

RL: reporting level for gross-β In air, i.e. 5.0 E-03 BQ/M3 (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
L: Number of sampling locations considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

DENSE

Fig. A2: Geographical and time averages

YEAR : 2016

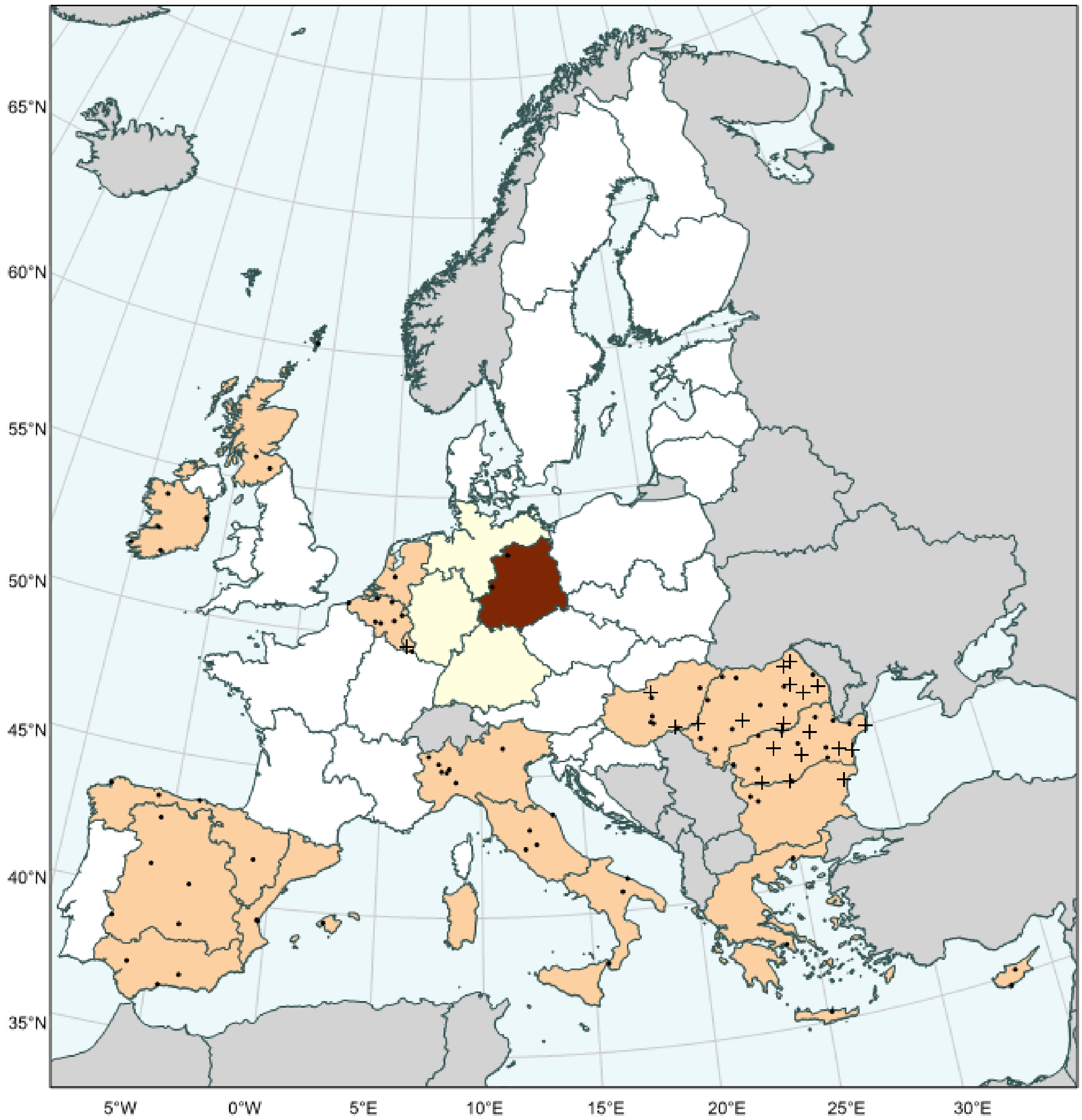
SAMPLE TYPE : airborne particulates (Bq m^{-3})

NUCLIDE CATEGORY : gross-β

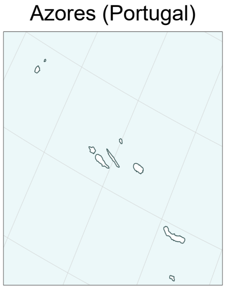
EU (no relevant data reported)		annual avg. < 0.005 Bq m^{-3}
EU (only relevant constraint values above the reporting level reported)		0.005 Bq m^{-3} <= annual avg. < 0.015 Bq m^{-3}
Outside EU (in 2016)		0.015 Bq m^{-3} <= annual avg. < 0.05 Bq m^{-3}
		0.05 Bq m^{-3} <= annual avg.

. sample location (Coordinate Accuracy = Precise or Not Specified)

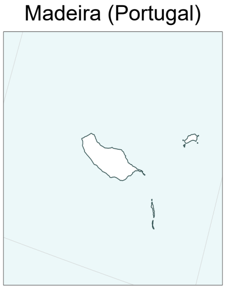
\+ regional average (Coordinate Accuracy = Reference Point of Region)



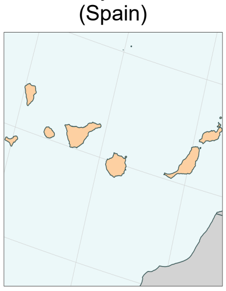
Azores (Portugal)



Madeira (Portugal)



Canary Islands (Spain)



Malta

Table A2: Geographical and time averages

YEAR : **2016**
SAMPLE TYPE : **airborne particulates (Bq m⁻³)**
NUCLIDE CATEGORY : **gross-β**

Country	N	L	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual average	Monthly max	M
AT									
BE	2556	8	< RL	< RL	< RL	< RL	< RL	< RL	9
BG	7	4	< RL	< RL	< RL	< RL	< RL	< RL	7
CY	218	2	< RL	< RL	< RL	< RL	< RL	< RL	8
CZ									
DE-N							Δ		
DE-C							Δ		
DE-S							Δ		
DE-E	2	2		1.2E-01		< RL	6.0E-02	1.2E-01	4
DE	2	2		1.2E-01		< RL	6.0E-02	1.2E-01	4
DK									
EE									
ES-N	211	4	< RL	< RL	< RL	< RL	< RL	< RL	10
ES-C	260	5	< RL	< RL	< RL	< RL	< RL	< RL	10
ES-S	159	3	< RL	< RL	< RL	< RL	< RL	< RL	9
ES-E	156	3	< RL	< RL	< RL	< RL	< RL	< RL	10
ES	786	15	< RL	< RL	< RL	< RL	< RL	< RL	10
FI-N									
FI-S									
FI									
FR-NW									
FR-NE									
FR-SW									
FR-SE									
FR									
GB-EN									
GB-WL									
GB-SC	36	3	< RL	< RL	< RL	< RL	< RL	< RL	10
GB-NI									
GB	36	3	< RL	< RL	< RL	< RL	< RL	< RL	10
GR	201	3	< RL	< RL	< RL		< RL	< RL	8
HR-A									
HR-C									
HR									
HU	443	8	< RL	< RL	< RL	< RL	< RL	< RL	8
IE	70	6	< RL	< RL	< RL	< RL	< RL	< RL	6
IT-N	1566	7	< RL	< RL	< RL	< RL	< RL	< RL	1
IT-C	606	4	< RL	< RL	< RL	< RL	< RL	< RL	12
IT-S	570	3	< RL	< RL	< RL	< RL	< RL	< RL	10
IT	2742	14	< RL	< RL	< RL	< RL	< RL	< RL	12
LT									
LU	78	2	< RL	< RL	< RL	< RL	< RL	< RL	9
LV									
MT									
NL	53	1	< RL	< RL	< RL	< RL	< RL	< RL	9
PL-N									
PL-S									
PL									
PT									
RO-N	14413	18	< RL	< RL	< RL	< RL	< RL	< RL	7
RO-S	17183	18	< RL	< RL	< RL	< RL	< RL	< RL	3
RO	31596	36	< RL	< RL	< RL	< RL	< RL	< RL	2
SE-N									
SE-S									
SE									
SI									
SK									

RL: reporting level for gross-β In air, i.e. 5.0 E-03 BQ/M3 (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
L: Number of sampling locations considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

DENSE

Fig. A3: Geographical and time averages

YEAR	:	2017
SAMPLE TYPE	:	airborne particulates (Bq m^{-3})
NUCLIDE CATEGORY	:	gross-β

EU (no relevant data reported)				annual avg.	<	0.005	Bq m^{-3}
EU (only relevant constraint values above the reporting level reported)	0.005	Bq m^{-3}	<=	annual avg.	<	0.015	Bq m^{-3}
	0.015	Bq m^{-3}	<=	annual avg.	<	0.05	Bq m^{-3}
Outside EU (in 2017)	0.05	Bq m^{-3}	<=	annual avg.			

. sample location (Coordinate Accuracy = Precise or Not Specified)

\+ regional average (Coordinate Accuracy = Reference Point of Region)

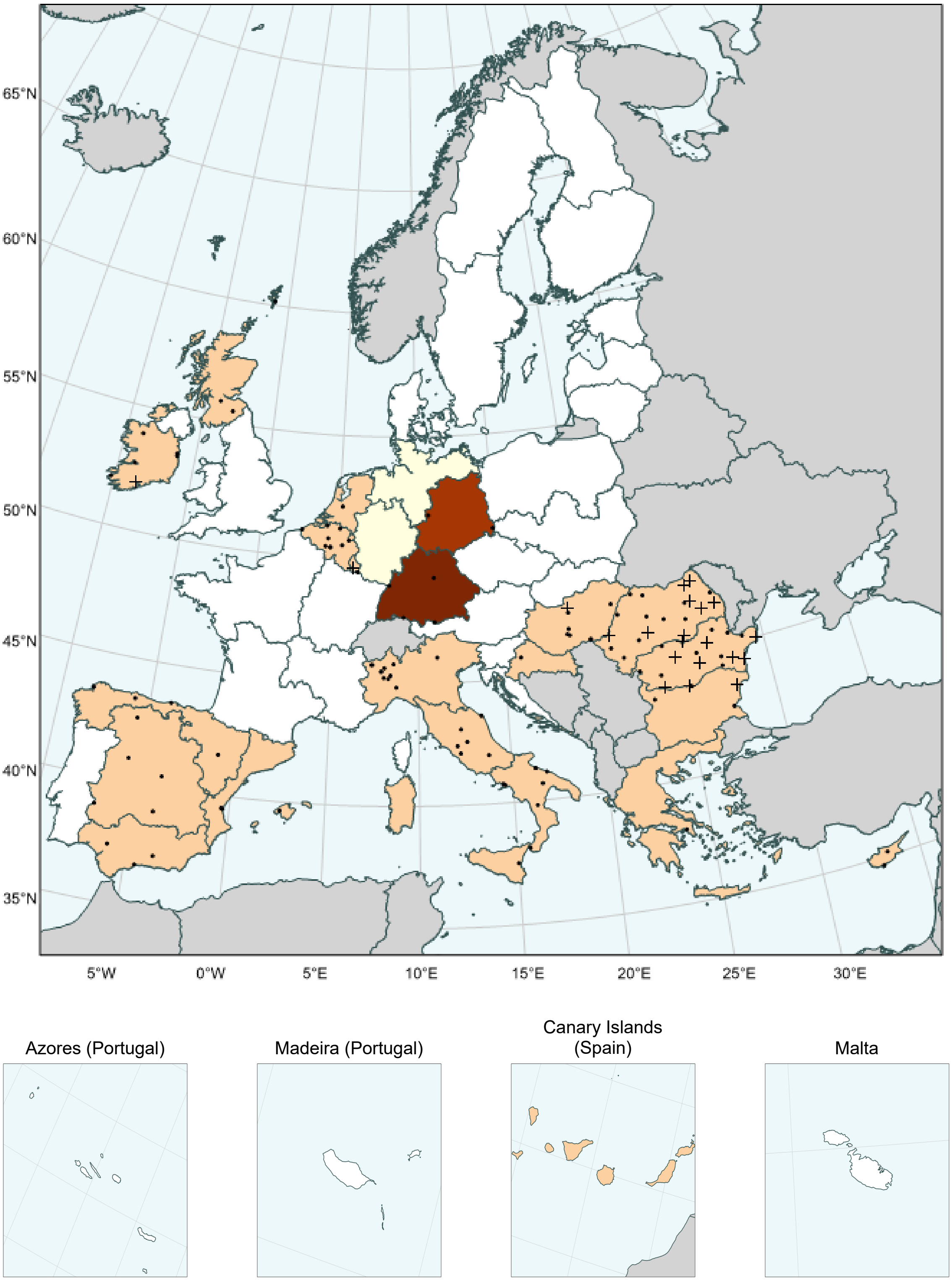


Table A3: Geographical and time averages

YEAR : 2017
SAMPLE TYPE : airborne particulates (Bq m^{-3})
NUCLIDE CATEGORY : gross-β

Country	N	L	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual average	Monthly max	M
AT									
BE	2159	10	< RL	< RL	< RL	< RL	< RL	< RL	10
BG	5	4	< RL	< RL	< RL		< RL	< RL	6
CY	128	2	< RL	< RL	< RL	1.3E-02	< RL	2.9E-02	12
CZ									
DE-N							Δ		
DE-C							Δ		
DE-S	5	4	1.6E-01		5.0E-01	< RL	2.2E-01	5.0E-01	8
DE-E	4	2				3.7E-02	3.7E-02	3.7E-02	10
DE	9	6	1.6E-01		5.0E-01	1.2E-02	2.2E-01	5.0E-01	8
DK									
EE									
ES-N	210	4	< RL	< RL	< RL	< RL	< RL	< RL	10
ES-C	259	5	< RL	< RL	< RL	< RL	< RL	< RL	10
ES-S	159	3	< RL	< RL	< RL	< RL	< RL	< RL	10
ES-E	158	3	< RL	< RL	< RL	< RL	< RL	< RL	6
ES	786	15	< RL	< RL	< RL	< RL	< RL	< RL	10
FI-N									
FI-S									
FI									
FR-NW									
FR-NE									
FR-SW									
FR-SE									
FR									
GB-EN									
GB-WL									
GB-SC	36	3	< RL	< RL	< RL	< RL	< RL	< RL	1
GB-NI									
GB	36	3	< RL	< RL	< RL	< RL	< RL	< RL	1
GR	102	1	< RL	< RL	< RL	< RL	< RL	< RL	7
HR-A									
HR-C	1	1				< RL	< RL	< RL	12
HR	1	1				< RL	< RL	< RL	12
HU	675	8	< RL	< RL	< RL	< RL	< RL	< RL	10
IE	71	6	< RL	< RL	< RL	< RL	< RL	< RL	5
IT-N	1608	11	< RL	< RL	< RL	< RL	< RL	< RL	10
IT-C	630	6	< RL	< RL	< RL	< RL	< RL	< RL	10
IT-S	716	9	< RL	< RL	< RL	< RL	< RL	< RL	8
IT	2954	26	< RL	< RL	< RL	< RL	< RL	< RL	10
LT									
LU	79	2	< RL	< RL	< RL	< RL	< RL	< RL	1
LV									
MT									
NL	53	1	< RL	< RL	< RL	< RL	< RL	< RL	10
PL-N									
PL-S									
PL									
PT									
RO-N	14787	19	< RL	< RL	< RL	< RL	< RL	< RL	9
RO-S	17303	18	< RL	< RL	< RL	< RL	< RL	< RL	9
RO	32090	37	< RL	< RL	< RL	< RL	< RL	< RL	9
SE-N									
SE-S									
SE									
SI									
SK									

RL: reporting level for gross-β In air, i.e. 5.0 E-03 BQ/M3 (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
L: Number of sampling locations considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

DENSE

Fig. A4: Geographical and time averages

YEAR	:	2018
SAMPLE TYPE	:	airborne particulates (Bq m^{-3})
NUCLIDE CATEGORY	:	gross-β

EU (no relevant data reported)

EU (only relevant constraint values above the reporting level reported)

Outside EU (in 2018)

annual avg. < 0.005 Bq m^{-3}

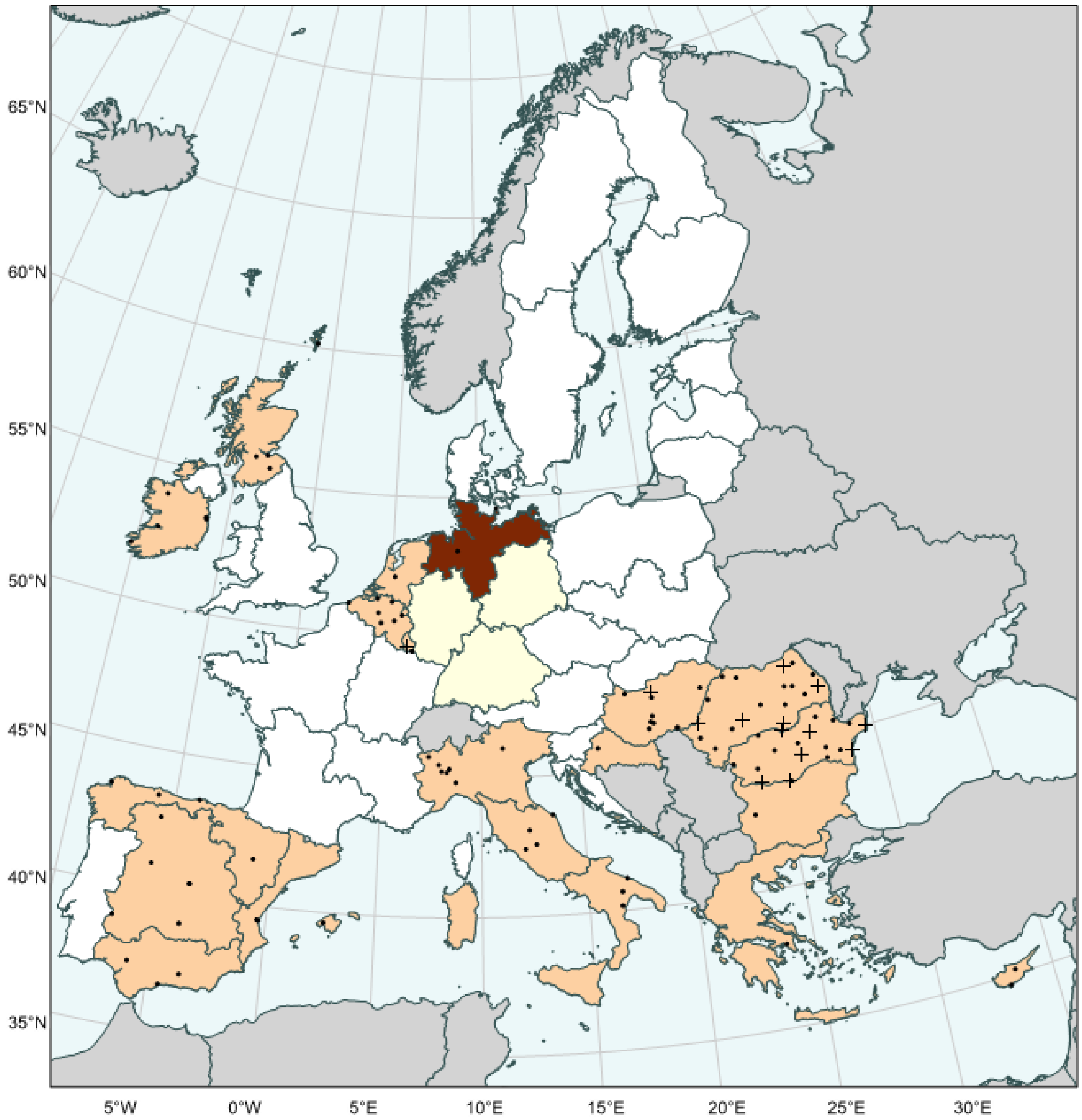
0.005 Bq m^{-3} <= annual avg. < 0.015 Bq m^{-3}

0.015 Bq m^{-3} <= annual avg. < 0.05 Bq m^{-3}

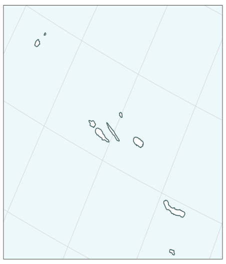
0.05 Bq m^{-3} <= annual avg.

. sample location (Coordinate Accuracy = Precise or Not Specified)

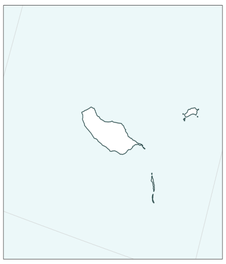
\+ regional average (Coordinate Accuracy = Reference Point of Region)



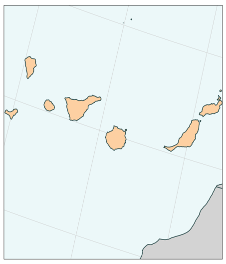
Azores (Portugal)



Madeira (Portugal)



Canary Islands (Spain)



Malta

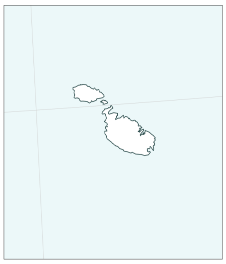


Table A4: Geographical and time averages

YEAR : 2018

SAMPLE TYPE : airborne particulates (Bq m^{-3})

NUCLIDE CATEGORY : gross-β

Country	N	L	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual average	Monthly max	M
AT									
BE	2137	7	< RL	< RL	< RL	< RL	< RL	< RL	11
BG	3	2	< RL	< RL		< RL	< RL	< RL	11
CY	328	2	< RL	< RL	< RL	< RL	< RL	< RL	8
CZ									
DE-N	2	2	2.9E-02			2.9E-01	1.6E-01	2.9E-01	12
DE-C							Δ		
DE-S							Δ		
DE-E							Δ		
DE	2	2	2.9E-02			2.9E-01	1.6E-01	2.9E-01	12
DK									
EE									
ES-N	208	4	< RL	< RL	< RL	< RL	< RL	< RL	10
ES-C	259	6	< RL	< RL	< RL	< RL	< RL	< RL	9
ES-S	158	3	< RL	< RL	< RL	< RL	< RL	< RL	8
ES-E	158	3	< RL	< RL	< RL	< RL	< RL	< RL	9
ES	783	16	< RL	< RL	< RL	< RL	< RL	< RL	9
FI-N									
FI-S									
FI									
FR-NW									
FR-NE									
FR-SW									
FR-SE									
FR									
GB-EN									
GB-WL									
GB-SC	45	4	< RL	< RL	< RL	< RL	< RL	< RL	11
GB-NI									
GB	45	4	< RL	< RL	< RL	< RL	< RL	< RL	11
GR	2	1	< RL				< RL	< RL	1
HR-A									
HR-C	12	1	< RL	< RL	< RL	< RL	< RL	8.4E-03	10
HR	12	1	< RL	< RL	< RL	< RL	< RL	8.4E-03	10
HU	562	10	< RL	< RL	< RL	< RL	< RL	< RL	8
IE	72	5	< RL	< RL	< RL	< RL	< RL	< RL	6
IT-N	1325	7	< RL	< RL	< RL	< RL	< RL	< RL	12
IT-C	444	4	< RL	< RL	< RL	< RL	< RL	< RL	8
IT-S	571	3	< RL	< RL	< RL	< RL	< RL	< RL	8
IT	2340	14	< RL	< RL	< RL	< RL	< RL	< RL	8
LT									
LU	78	2	< RL	< RL	< RL	< RL	< RL	< RL	5
LV									
MT									
NL	52	1	< RL	< RL	< RL	< RL	< RL	< RL	11
PL-N									
PL-S									
PL									
PT									
RO-N	3175	18	< RL	< RL	< RL	< RL	< RL	< RL	2
RO-S	6627	18	< RL	< RL	< RL	< RL	< RL	< RL	6
RO	9802	36	< RL	< RL	< RL	< RL	< RL	< RL	11
SE-N									
SE-S									
SE									
SI									
SK									

RL: reporting level for gross-β In air, i.e. 5.0 E-03 BQ/M3 (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
L: Number of sampling locations considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

DENSE

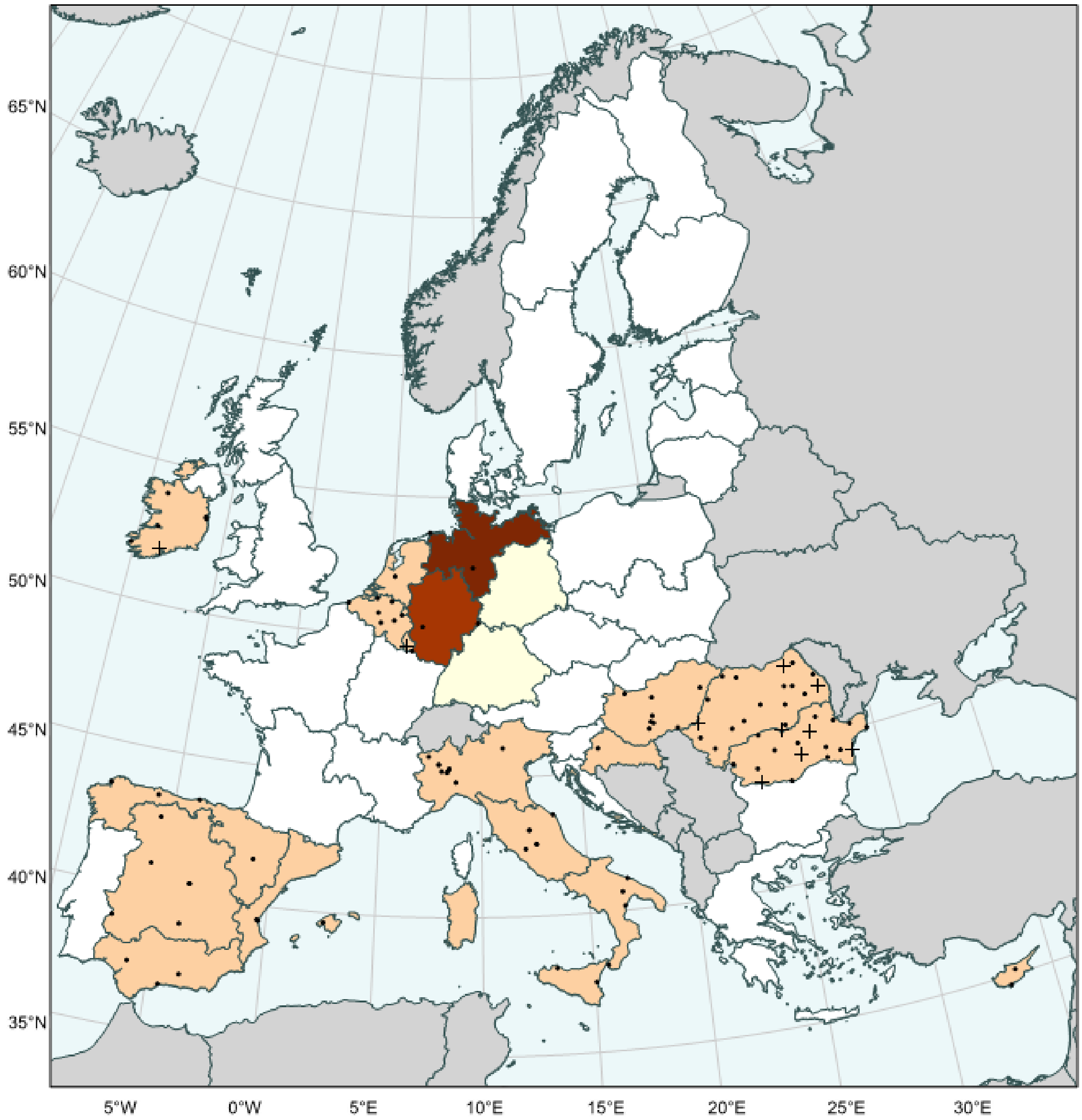
Fig. A5: Geographical and time averages

YEAR	:	2019
SAMPLE TYPE	:	airborne particulates (Bq m^{-3})
NUCLIDE CATEGORY	:	gross-β

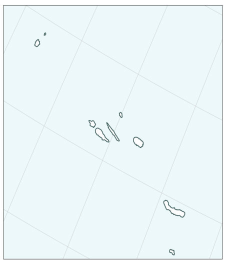
EU (no relevant data reported)
EU (only relevant constraint values above the reporting level reported)
Outside EU (in 2019)

		annual avg.	<	0.005	Bq m^{-3}
0.005 Bq m^{-3}	<=	annual avg.	<	0.015	Bq m^{-3}
0.015 Bq m^{-3}	<=	annual avg.	<	0.05	Bq m^{-3}
0.05 Bq m^{-3}	<=	annual avg.			

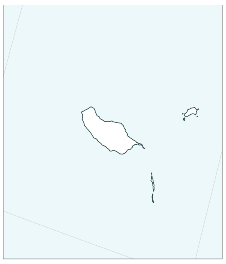
. sample location (Coordinate Accuracy = Precise or Not Specified)
+ regional average (Coordinate Accuracy = Reference Point of Region)



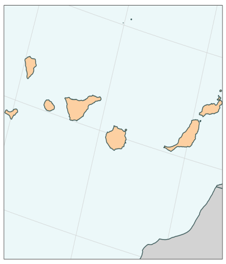
Azores (Portugal)



Madeira (Portugal)



Canary Islands (Spain)



Malta

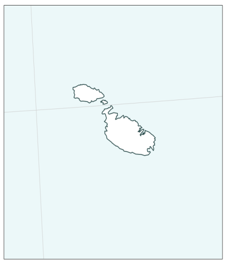


Table A5: Geographical and time averages

YEAR : 2019

SAMPLE TYPE : airborne particulates (Bq m^{-3})

NUCLIDE CATEGORY : gross-β

DENSE

Country	N	L	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual average	Monthly max	M
AT									
BE	2136	7	< RL	< RL	< RL	< RL	< RL	< RL	4
BG									
CY	211	2	< RL	< RL	< RL	< RL	< RL	< RL	11
CZ									
DE-N	2	2				1.5E-01	1.5E-01	3.0E-01	12
DE-C	4	2				4.2E-02	4.2E-02	4.2E-02	12
DE-S							Δ		
DE-E							Δ		
DE	6	4				6.7E-02	6.7E-02	1.3E-01	12
DK									
EE									
ES-N	215	4	< RL	< RL	< RL	< RL	< RL	< RL	9
ES-C	255	6	< RL	< RL	< RL	< RL	< RL	< RL	7
ES-S	155	3	< RL	< RL	< RL	< RL	< RL	< RL	9
ES-E	159	3	< RL	< RL	< RL	< RL	< RL	< RL	7
ES	784	16	< RL	< RL	< RL	< RL	< RL	< RL	7
FI-N									
FI-S									
FI									
FR-NW									
FR-NE									
FR-SW									
FR-SE									
FR									
GB-EN									
GB-WL									
GB-SC									
GB-NI									
GB									
GR									
HR-A									
HR-C	12	1	< RL	< RL	< RL	< RL	< RL	< RL	8
HR	12	1	< RL	< RL	< RL	< RL	< RL	< RL	8
HU	669	8	< RL	< RL	< RL	< RL	< RL	< RL	10
IE	68	6	< RL	< RL	< RL	< RL	< RL	< RL	1
IT-N	2008	10	< RL	< RL	< RL	< RL	< RL	< RL	8
IT-C	508	6	< RL	< RL	< RL	< RL	< RL	< RL	6
IT-S	781	6	< RL	< RL	< RL	< RL	< RL	< RL	8
IT	3297	22	< RL	< RL	< RL	< RL	< RL	< RL	8
LT									
LU	76	2	< RL	< RL	< RL	< RL	< RL	< RL	8
LV									
MT									
NL	53	1	< RL	< RL	< RL	< RL	< RL	< RL	2
PL-N									
PL-S									
PL									
PT									
RO-N	14542	18	< RL	< RL	< RL	< RL	< RL	< RL	11
RO-S	17251	18	< RL	< RL	< RL	< RL	< RL	< RL	5
RO	31793	36	< RL	< RL	< RL	< RL	< RL	< RL	5
SE-N									
SE-S									
SE									
SI									
SK									

RL: reporting level for gross-β In air, i.e. 5.0 E-03 BQ/M3 (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
L: Number of sampling locations considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

DENSE

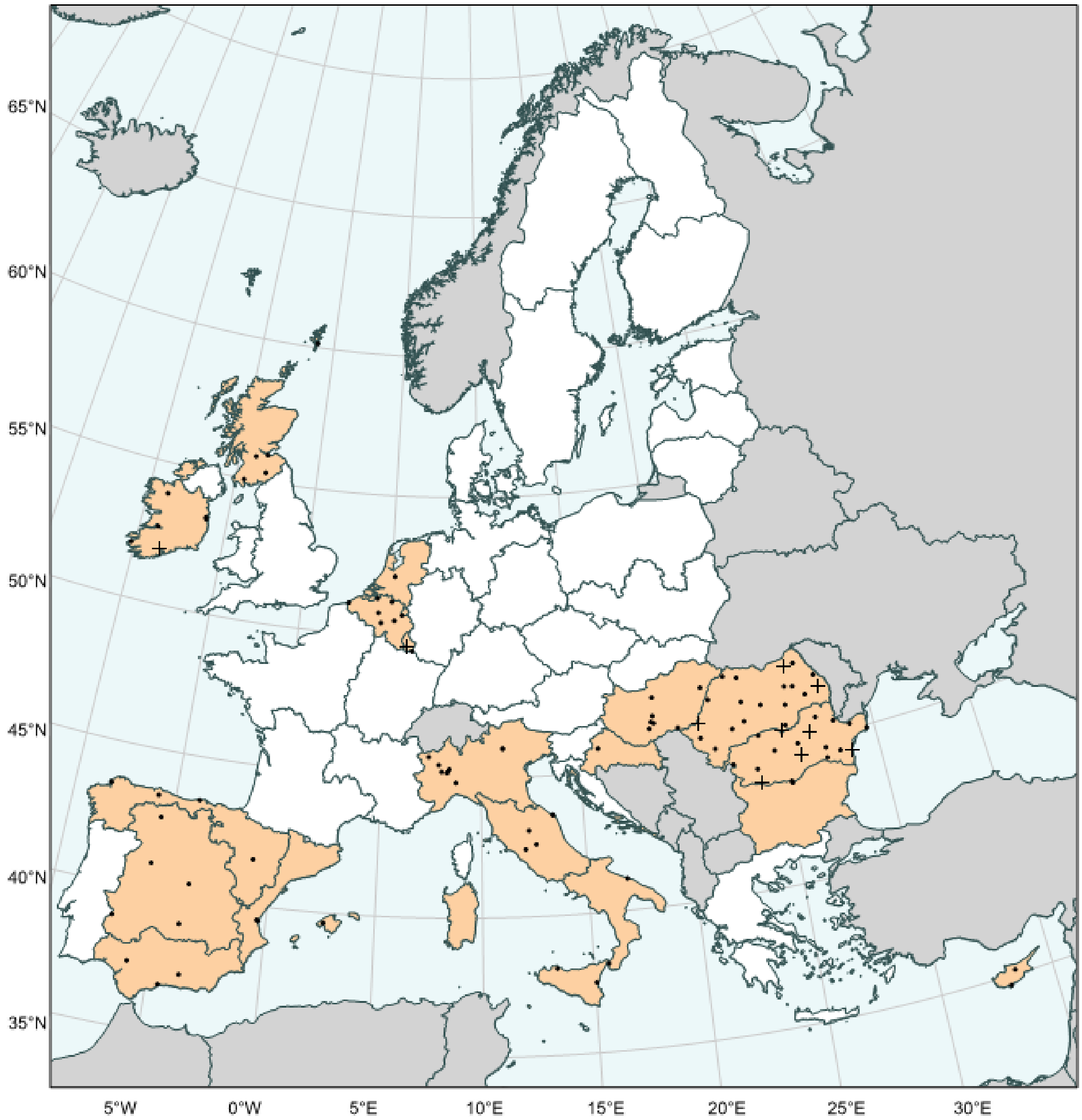
Fig. A6: Geographical and time averages

YEAR	:	2020
SAMPLE TYPE	:	airborne particulates (Bq m⁻³)
NUCLIDE CATEGORY	:	gross-β

(white)	EU (no relevant data reported)	(light orange)	annual avg. < 0.005 Bq m^{-3}
(light yellow)	EU (only relevant constraint values above the reporting level reported)	(orange)	0.005 Bq m^{-3} <= annual avg. < 0.015 Bq m^{-3}
		(dark orange)	0.015 Bq m^{-3} <= annual avg. < 0.05 Bq m^{-3}
(grey)	Outside EU (in 2020)	(brown)	0.05 Bq m^{-3} <= annual avg.

. sample location (Coordinate Accuracy = Precise or Not Specified)

\+ regional average (Coordinate Accuracy = Reference Point of Region)



Azores (Portugal) Madeira (Portugal) Canary Islands (Spain) Malta

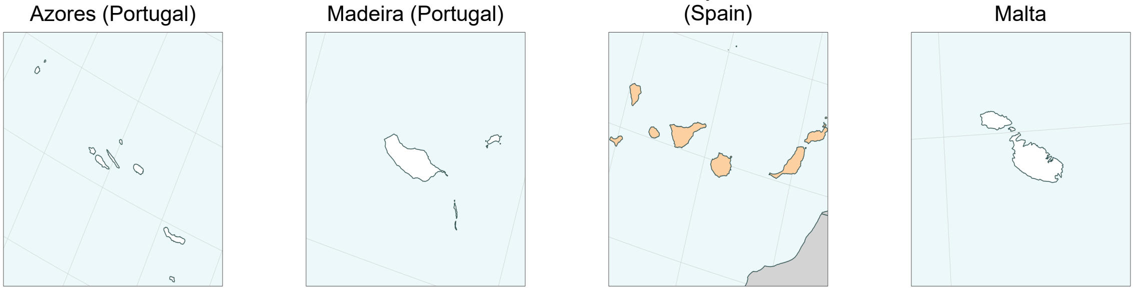


Table A6: Geographical and time averages

YEAR : 2020
SAMPLE TYPE : airborne particulates (Bq m^{-3})
NUCLIDE CATEGORY : gross-β

Country	N	L	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual average	Monthly max	M
AT									
BE	4152	7	< RL	< RL	< RL	< RL	< RL	7.0E-03	6
BG	2	1	< RL	< RL		< RL	< RL	< RL	11
CY	303	2	< RL	< RL	< RL	< RL	< RL	< RL	9
CZ									
DE-N									
DE-C									
DE-S									
DE-E									
DE									
DK									
EE									
ES-N	205	4	< RL	< RL	< RL	< RL	< RL	< RL	9
ES-C	249	5	< RL	< RL	< RL	< RL	< RL	< RL	9
ES-S	137	3	< RL	< RL	< RL	< RL	< RL	< RL	9
ES-E	160	3	< RL	< RL	< RL	< RL	< RL	< RL	7
ES	751	15	< RL	< RL	< RL	< RL	< RL	< RL	9
FI-N									
FI-S									
FI									
FR-NW									
FR-NE									
FR-SW									
FR-SE									
FR									
GB-EN									
GB-WL									
GB-SC	43	5	< RL	< RL	< RL	< RL	< RL	< RL	4
GB-NI									
GB	43	5	< RL	< RL	< RL	< RL	< RL	< RL	4
GR									
HR-A									
HR-C	12	1	< RL	< RL	< RL	< RL	< RL	< RL	11
HR	12	1	< RL	< RL	< RL	< RL	< RL	< RL	11
HU	567	7	< RL	< RL	< RL	< RL	< RL	< RL	9
IE	69	6	< RL	< RL	< RL	< RL	< RL	< RL	4
IT-N	1924	8	< RL	< RL	< RL	< RL	< RL	< RL	11
IT-C	509	5	< RL	< RL	< RL	< RL	< RL	< RL	8
IT-S	660	4	< RL	< RL	< RL	< RL	< RL	< RL	8
IT	3093	17	< RL	< RL	< RL	< RL	< RL	< RL	11
LT									
LU	77	2	< RL	< RL	< RL	< RL	< RL	< RL	9
LV									
MT									
NL	53	1	< RL	< RL	< RL	< RL	< RL	< RL	11
PL-N									
PL-S									
PL									
PT									
RO-N	16011	19	< RL	< RL	< RL	< RL	< RL	< RL	9
RO-S	17208	18	< RL	< RL	< RL	< RL	< RL	< RL	8
RO	33219	37	< RL	< RL	< RL	< RL	< RL	< RL	8
SE-N									
SE-S									
SE									
SI									
SK									

RL: reporting level for gross-β In air, i.e. 5.0 E-03 BQ/M3 (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
L: Number of sampling locations considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

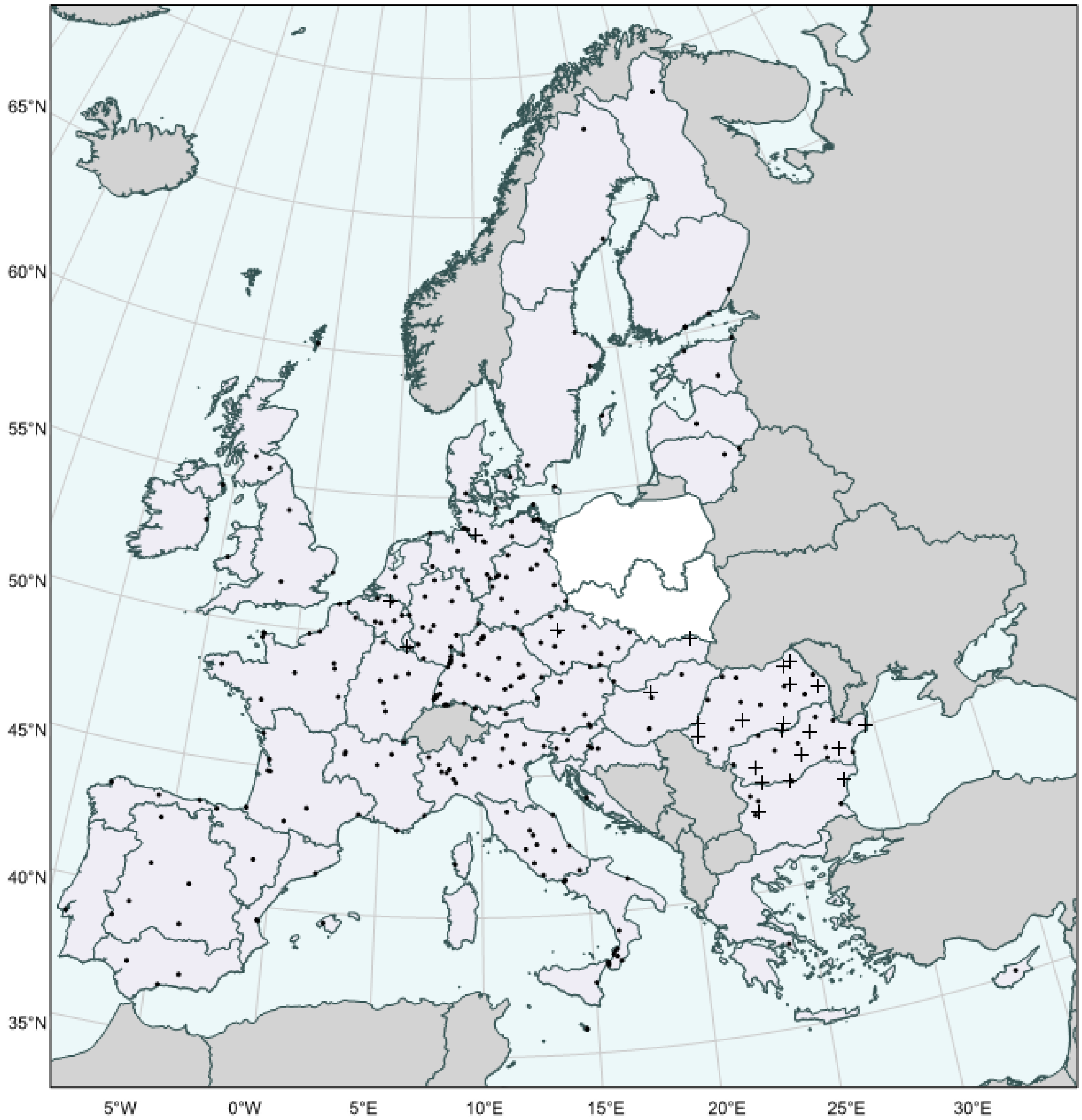
Fig. A7: Geographical and time averages

YEAR	:	2015
SAMPLE TYPE	:	airborne particulates (Bq m^{-3})
NUCLIDE CATEGORY	:	caesium-137 (^{137}Cs)

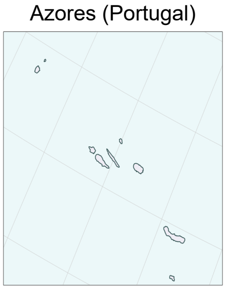
EU (no relevant data reported)	annual avg. < 0.03 Bq m^{-3}
EU (only relevant constraint values above the reporting level reported)	0.03 Bq m^{-3} <= annual avg. < 0.09 Bq m^{-3}
	0.09 Bq m^{-3} <= annual avg. < 0.3 Bq m^{-3}
Outside EU (in 2015)	0.3 Bq m^{-3} <= annual avg.

. sample location (Coordinate Accuracy = Precise or Not Specified)

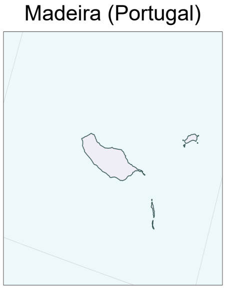
+ regional average (Coordinate Accuracy = Reference Point of Region)



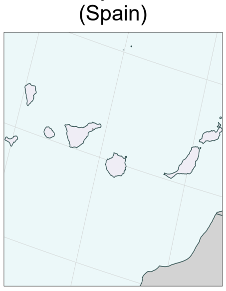
Azores (Portugal)



Madeira (Portugal)



Canary Islands (Spain)



Malta

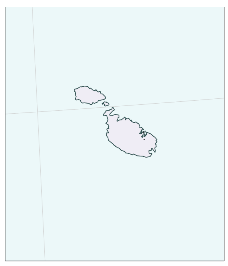


Table A7: Geographical and time averages

YEAR : **2015**
SAMPLE TYPE : **airborne particulates (Bq m^{-3})**
NUCLIDE CATEGORY : **caesium-137 (^{137}Cs)**

Country	N	L	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual average	Monthly max	M
AT	568	10	< RL	< RL	< RL	< RL	< RL	< RL	12
BE	82	7	< RL	< RL	< RL	< RL	< RL	< RL	5
BG	147	8	< RL	< RL	< RL	< RL	< RL	< RL	1
CY	30	1	< RL	< RL	< RL	< RL	< RL	< RL	9
CZ	533	11	< RL	< RL	< RL	< RL	< RL	< RL	10
DE-N	3964	22	< RL	< RL	< RL	< RL	< RL	< RL	10
DE-C	3873	15	< RL	< RL	< RL	< RL	< RL	< RL	12
DE-S	4553	33	< RL	< RL	< RL	< RL	< RL	< RL	12
DE-E	3293	11	< RL	< RL	< RL	< RL	< RL	< RL	8
DE	15683	81	< RL	< RL	< RL	< RL	< RL	< RL	12
DK	74	3	< RL	< RL	< RL	< RL	< RL	< RL	10
EE	154	3	< RL	< RL	< RL	< RL	< RL	< RL	1
ES-N	106	5	< RL	< RL	< RL	< RL	< RL	< RL	8
ES-C	174	7	< RL	< RL	< RL	< RL	< RL	< RL	1
ES-S	132	4	< RL	< RL	< RL	< RL	< RL	< RL	2
ES-E	92	4	< RL	< RL	< RL	< RL	< RL	< RL	3
ES	504	20	< RL	< RL	< RL	< RL	< RL	< RL	8
FI-N	28	1		< RL	< RL	< RL	< RL	< RL	9
FI-S	408	4	< RL	< RL	< RL	< RL	< RL	< RL	10
FI	436	5	< RL	< RL	< RL	< RL	< RL	< RL	10
FR-NW	694	13	< RL	< RL	< RL	< RL	< RL	< RL	5
FR-NE	278	7	< RL	< RL	< RL	< RL	< RL	< RL	3
FR-SW	364	9	< RL	< RL	< RL	< RL	< RL	< RL	11
FR-SE	407	8	< RL	< RL	< RL	< RL	< RL	< RL	11
FR	1743	37	< RL	< RL	< RL	< RL	< RL	< RL	3
GB-EN	15	3	< RL	< RL	< RL	< RL	< RL	< RL	2
GB-WL	5	1	< RL	< RL	< RL	< RL	< RL	< RL	8
GB-SC	33	3	< RL	< RL	< RL	< RL	< RL	< RL	1
GB-NI	5	1	< RL	< RL	< RL	< RL	< RL	< RL	2
GB	58	8	< RL	< RL	< RL	< RL	< RL	< RL	2
GR	18	1		< RL		< RL	< RL	< RL	6
HR-A	4	1	< RL	< RL	< RL	< RL	< RL	< RL	11
HR-C	15	1	< RL	< RL	< RL	< RL	< RL	< RL	5
HR	19	2	< RL	< RL	< RL	< RL	< RL	< RL	5
HU	167	5	< RL	< RL	< RL	< RL	< RL	< RL	1
IE	11	1	< RL	< RL	< RL	< RL	< RL	< RL	4
IT-N	955	16	< RL	< RL	< RL	< RL	< RL	< RL	12
IT-C	1014	11	< RL	< RL	< RL	< RL	< RL	< RL	1
IT-S	208	13	< RL	< RL	< RL	< RL	< RL	< RL	6
IT	2177	40	< RL	< RL	< RL	< RL	< RL	< RL	7
LT	24	2	< RL	< RL	< RL	< RL	< RL	< RL	8
LU	104	2	< RL	< RL	< RL	< RL	< RL	< RL	2
LV	5	1	< RL	< RL	< RL	< RL	< RL	< RL	6
MT	28	2	< RL	< RL	< RL	< RL	< RL	< RL	11
NL	53	1	< RL	< RL	< RL	< RL	< RL	< RL	10
PL-N									
PL-S									
PL									
PT	50	1	< RL	< RL	< RL	< RL	< RL	< RL	3
RO-N	228	19	< RL	< RL	< RL	< RL	< RL	< RL	7
RO-S	214	18	< RL	< RL	< RL	< RL	< RL	< RL	10
RO	442	37	< RL	< RL	< RL	< RL	< RL	< RL	8
SE-N	106	2	< RL	< RL	< RL	< RL	< RL	< RL	6
SE-S	212	4	< RL	< RL	< RL	< RL	< RL	< RL	10
SE	318	6	< RL	< RL	< RL	< RL	< RL	< RL	6
SI	63	5	< RL	< RL	< RL	< RL	< RL	< RL	12
SK	19	2	< RL	< RL	< RL	< RL	< RL	< RL	8

RL: reporting level for ^{137}Cs In air, i.e. 3.0 E-02 BQ/M3 (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
L: Number of sampling locations considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

DENSE

Fig. A8: Geographical and time averages

YEAR	:	2016
SAMPLE TYPE	:	airborne particulates (Bq m^{-3})
NUCLIDE CATEGORY	:	caesium-137 (^{137}Cs)

EU (no relevant data reported)

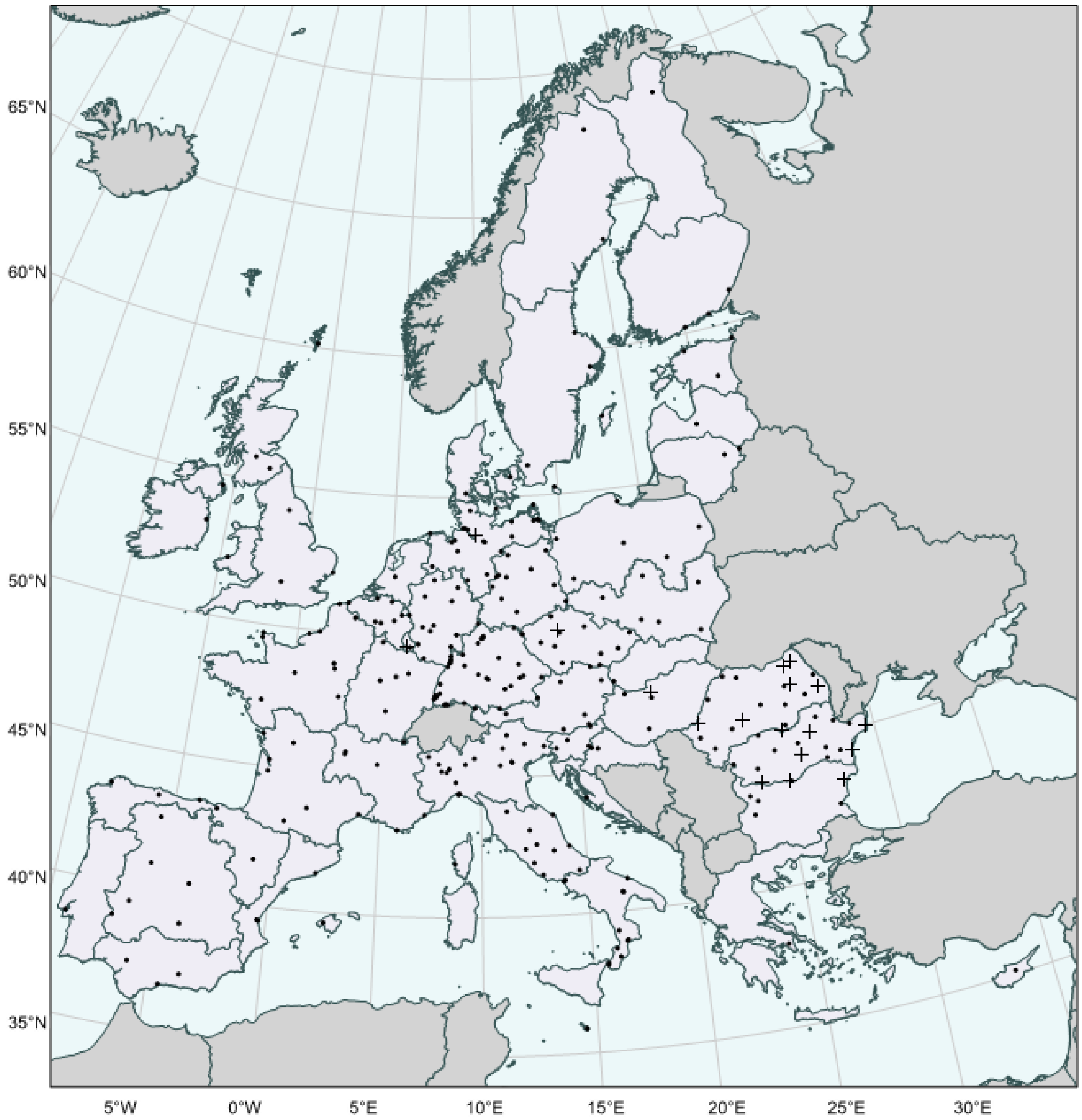
EU (only relevant constraint values above the reporting level reported)

Outside EU (in 2016)

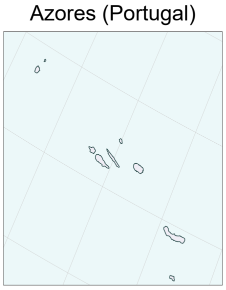
		annual avg.	<	0.03	Bq m^{-3}
0.03 Bq m^{-3}	<=	annual avg.	<	0.09	Bq m^{-3}
0.09 Bq m^{-3}	<=	annual avg.	<	0.3	Bq m^{-3}
0.3 Bq m^{-3}	<=	annual avg.			

. sample location (Coordinate Accuracy = Precise or Not Specified)

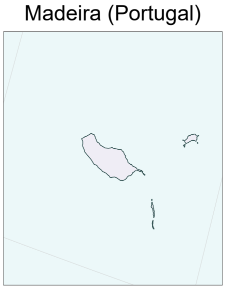
\+ regional average (Coordinate Accuracy = Reference Point of Region)



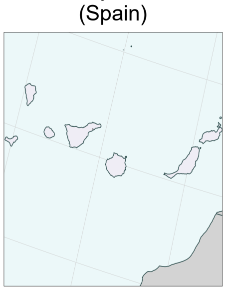
Azores (Portugal)



Madeira (Portugal)



Canary Islands (Spain)



Malta

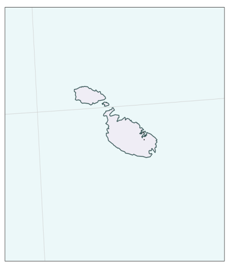


Table A8: Geographical and time averages

YEAR : 2016
SAMPLE TYPE : airborne particulates (Bq m^{-3})
NUCLIDE CATEGORY : caesium-137 (^{137}Cs)

Country	N	L	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual average	Monthly max	M
AT	579	10	< RL	< RL	< RL	< RL	< RL	< RL	12
BE	93	7	< RL	< RL	< RL	< RL	< RL	< RL	3
BG	125	6	< RL	< RL	< RL	< RL	< RL	< RL	12
CY	12	1	< RL	< RL	< RL	< RL	< RL	< RL	10
CZ	504	13	< RL	< RL	< RL	< RL	< RL	< RL	1
DE-N	4117	24	< RL	< RL	< RL	< RL	< RL	< RL	12
DE-C	3923	15	< RL	< RL	< RL	< RL	< RL	< RL	4
DE-S	4803	33	< RL	< RL	< RL	< RL	< RL	< RL	12
DE-E	3381	10	< RL	< RL	< RL	< RL	< RL	< RL	4
DE	16224	82	< RL	< RL	< RL	< RL	< RL	< RL	12
DK	75	3	< RL	< RL	< RL	< RL	< RL	< RL	12
EE	154	3	< RL	< RL	< RL	< RL	< RL	< RL	5
ES-N	83	5	< RL	< RL	< RL	< RL	< RL	< RL	8
ES-C	171	7	< RL	< RL	< RL	< RL	< RL	< RL	1
ES-S	131	4	< RL	< RL	< RL	< RL	< RL	< RL	3
ES-E	92	4	< RL	< RL	< RL	< RL	< RL	< RL	2
ES	477	20	< RL	< RL	< RL	< RL	< RL	< RL	2
FI-N	54	1	< RL	< RL	< RL	< RL	< RL	< RL	1
FI-S	206	3	< RL	< RL	< RL	< RL	< RL	< RL	3
FI	260	4	< RL	< RL	< RL	< RL	< RL	< RL	3
FR-NW	613	13	< RL	< RL	< RL	< RL	< RL	< RL	1
FR-NE	261	6	< RL	< RL	< RL	< RL	< RL	< RL	8
FR-SW	250	8	< RL	< RL	< RL	< RL	< RL	< RL	1
FR-SE	323	8	< RL	< RL	< RL	< RL	< RL	< RL	8
FR	1447	35	< RL	< RL	< RL	< RL	< RL	< RL	1
GB-EN	3	3	< RL				< RL	< RL	1
GB-WL	1	1	< RL				< RL	< RL	1
GB-SC	36	3	< RL	< RL	< RL	< RL	< RL	< RL	1
GB-NI	1	1	< RL				< RL	< RL	1
GB	41	8	< RL	< RL	< RL	< RL	< RL	< RL	2
GR	43	1	< RL	< RL	< RL	< RL	< RL	< RL	4
HR-A	6	1	< RL	< RL	< RL	< RL	< RL	< RL	11
HR-C	15	1	< RL	< RL	< RL	< RL	< RL	< RL	1
HR	21	2	< RL	< RL	< RL	< RL	< RL	< RL	12
HU	191	4	< RL	< RL	< RL	< RL	< RL	< RL	3
IE	13	1	< RL	< RL	< RL	< RL	< RL	< RL	3
IT-N	954	18	< RL	< RL	< RL	< RL	< RL	< RL	3
IT-C	860	10	< RL	< RL	< RL	< RL	< RL	< RL	2
IT-S	259	12	< RL	< RL	< RL	< RL	< RL	< RL	10
IT	2073	40	< RL	< RL	< RL	< RL	< RL	< RL	2
LT	23	2	< RL	< RL	< RL	< RL	< RL	< RL	11
LU	100	2	< RL	< RL	< RL	< RL	< RL	< RL	9
LV	3	1	< RL		< RL	< RL	< RL	< RL	12
MT	24	2	< RL	< RL	< RL	< RL	< RL	< RL	11
NL	53	1	< RL	< RL	< RL	< RL	< RL	< RL	5
PL-N	6	6				< RL	< RL	< RL	12
PL-S	6	6				< RL	< RL	< RL	12
PL	12	12				< RL	< RL	< RL	12
PT	50	1	< RL	< RL	< RL	< RL	< RL	< RL	6
RO-N	216	18	< RL	< RL	< RL	< RL	< RL	< RL	7
RO-S	212	18	< RL	< RL	< RL	< RL	< RL	< RL	6
RO	428	36	< RL	< RL	< RL	< RL	< RL	< RL	6
SE-N	106	2	< RL	< RL	< RL	< RL	< RL	< RL	6
SE-S	212	4	< RL	< RL	< RL	< RL	< RL	< RL	5
SE	318	6	< RL	< RL	< RL	< RL	< RL	< RL	6
SI	62	5	< RL	< RL	< RL	< RL	< RL	< RL	12
SK	13	2	< RL	< RL	< RL	< RL	< RL	< RL	11

RL: reporting level for ^{137}Cs In air, i.e. 3.0 E-02 BQ/M3 (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
L: Number of sampling locations considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

DENSE

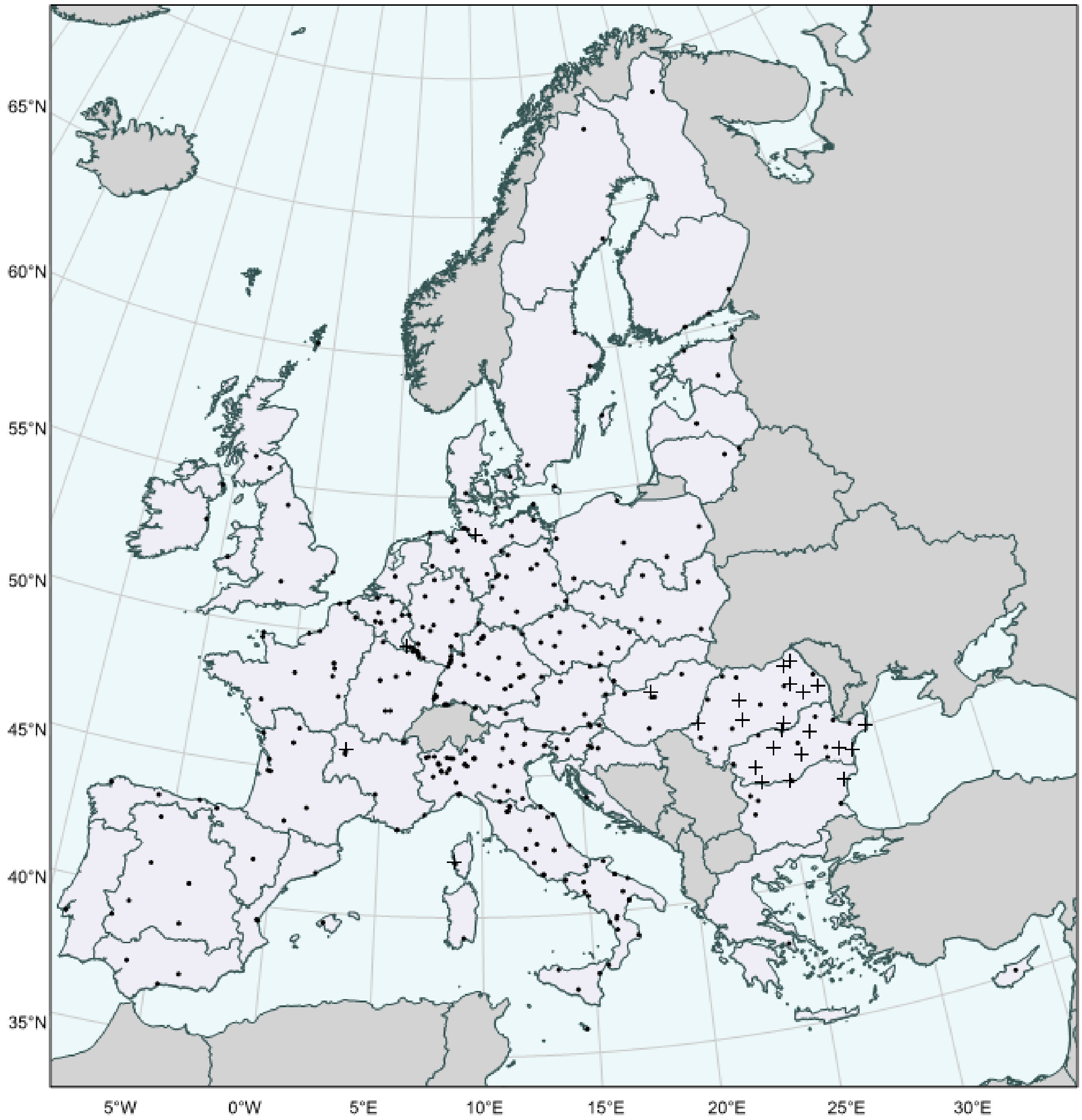
Fig. A9: Geographical and time averages

YEAR	:	2017
SAMPLE TYPE	:	airborne particulates (Bq m^{-3})
NUCLIDE CATEGORY	:	caesium-137 (^{137}Cs)

EU (no relevant data reported)	annual avg. < 0.03 Bq m^{-3}
EU (only relevant constraint values above the reporting level reported)	0.03 Bq m^{-3} <= annual avg. < 0.09 Bq m^{-3}
	0.09 Bq m^{-3} <= annual avg. < 0.3 Bq m^{-3}
Outside EU (in 2017)	0.3 Bq m^{-3} <= annual avg.

. sample location (Coordinate Accuracy = Precise or Not Specified)

+ regional average (Coordinate Accuracy = Reference Point of Region)



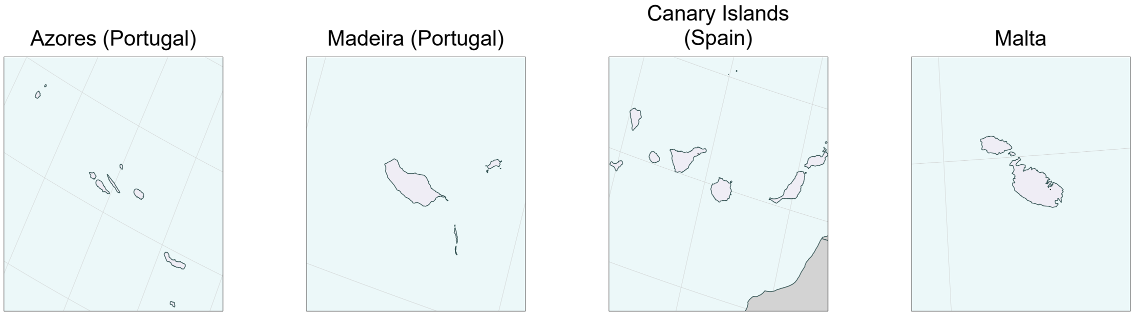


Table A9: Geographical and time averages

YEAR : **2017**

SAMPLE TYPE : **airborne particulates (Bq m^{-3})**

NUCLIDE CATEGORY : **caesium-137 (^{137}Cs)**

DENSE

Country	N	L	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual average	Monthly max	M
AT	590	10	< RL	< RL	< RL	< RL	< RL	< RL	10
BE	106	10	< RL	< RL	< RL	< RL	< RL	< RL	12
BG	126	6	< RL	< RL	< RL	< RL	< RL	< RL	8
CY	18	1	< RL	< RL	< RL	< RL	< RL	< RL	9
CZ	549	10	< RL	< RL	< RL	< RL	< RL	< RL	2
DE-N	3879	21	< RL	< RL	< RL	< RL	< RL	< RL	9
DE-C	3784	21	< RL	< RL	< RL	< RL	< RL	< RL	9
DE-S	4595	32	< RL	< RL	< RL	< RL	< RL	< RL	3
DE-E	3199	11	< RL	< RL	< RL	< RL	< RL	< RL	3
DE	15457	85	< RL	< RL	< RL	< RL	< RL	< RL	9
DK	77	3	< RL	< RL	< RL	< RL	< RL	< RL	1
EE	154	3	< RL	< RL	< RL	< RL	< RL	< RL	6
ES-N	104	5	< RL	< RL	< RL	< RL	< RL	< RL	12
ES-C	170	7	< RL	< RL	< RL	< RL	< RL	< RL	2
ES-S	130	4	< RL	< RL	< RL	< RL	< RL	< RL	11
ES-E	91	4	< RL	< RL	< RL	< RL	< RL	< RL	9
ES	495	20	< RL	< RL	< RL	< RL	< RL	< RL	9
FI-N	52	1	< RL	< RL	< RL	< RL	< RL	< RL	7
FI-S	152	3	< RL	< RL	< RL	< RL	< RL	< RL	6
FI	204	4	< RL	< RL	< RL	< RL	< RL	< RL	6
FR-NW	601	14	< RL	< RL	< RL	< RL	< RL	< RL	4
FR-NE	257	7	< RL	< RL	< RL	< RL	< RL	< RL	12
FR-SW	262	10	< RL	< RL	< RL	< RL	< RL	< RL	2
FR-SE	288	11	< RL	< RL	< RL	< RL	< RL	< RL	2
FR	1408	42	< RL	< RL	< RL	< RL	< RL	< RL	2
GB-EN	12	3	< RL	< RL	< RL	< RL	< RL	< RL	8
GB-WL	4	1	< RL	< RL	< RL	< RL	< RL	< RL	1
GB-SC	36	3	< RL	< RL	< RL	< RL	< RL	< RL	1
GB-NI	4	1	< RL	< RL	< RL	< RL	< RL	< RL	11
GB	56	8	< RL	< RL	< RL	< RL	< RL	< RL	8
GR	41	1	< RL	< RL	< RL	< RL	< RL	< RL	8
HR-A	4	1	< RL	< RL	< RL	< RL	< RL	< RL	11
HR-C	18	1	< RL	< RL	< RL	< RL	< RL	< RL	10
HR	22	2	< RL	< RL	< RL	< RL	< RL	< RL	10
HU	165	7	< RL	< RL	< RL	< RL	< RL	< RL	10
IE	59	1	< RL	< RL	< RL	< RL	< RL	< RL	1
IT-N	1120	40	< RL	< RL	< RL	< RL	< RL	< RL	10
IT-C	903	18	< RL	< RL	< RL	< RL	< RL	< RL	3
IT-S	90	22	< RL	< RL	< RL	< RL	< RL	< RL	10
IT	2113	80	< RL	< RL	< RL	< RL	< RL	< RL	10
LT	24	2	< RL	< RL	< RL	< RL	< RL	< RL	2
LU	96	2	< RL	< RL	< RL	< RL	< RL	< RL	2
LV	12	1	< RL	< RL	< RL	< RL	< RL	< RL	3
MT	60	1	< RL	< RL	< RL	< RL	< RL	< RL	1
NL	53	1	< RL	< RL	< RL	< RL	< RL	< RL	2
PL-N	12	6	< RL	< RL	< RL	< RL	< RL	< RL	12
PL-S	12	6	< RL	< RL	< RL	< RL	< RL	< RL	1
PL	24	12	< RL	< RL	< RL	< RL	< RL	< RL	12
PT	50	1	< RL	< RL	< RL	< RL	< RL	< RL	10
RO-N	220	19	< RL	< RL	< RL	< RL	< RL	< RL	9
RO-S	216	18	< RL	< RL	< RL	< RL	< RL	< RL	11
RO	436	37	< RL	< RL	< RL	< RL	< RL	< RL	9
SE-N	105	2	< RL	< RL	< RL	< RL	< RL	< RL	9
SE-S	211	4	< RL	< RL	< RL	< RL	< RL	< RL	6
SE	316	6	< RL	< RL	< RL	< RL	< RL	< RL	9
SI	70	6	< RL	< RL	< RL	< RL	< RL	< RL	12
SK	25	2	< RL	< RL	< RL	< RL	< RL	< RL	2

RL: reporting level for ^{137}Cs In air, i.e. 3.0 E-02 BQ/M3 (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
L: Number of sampling locations considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

DENSE

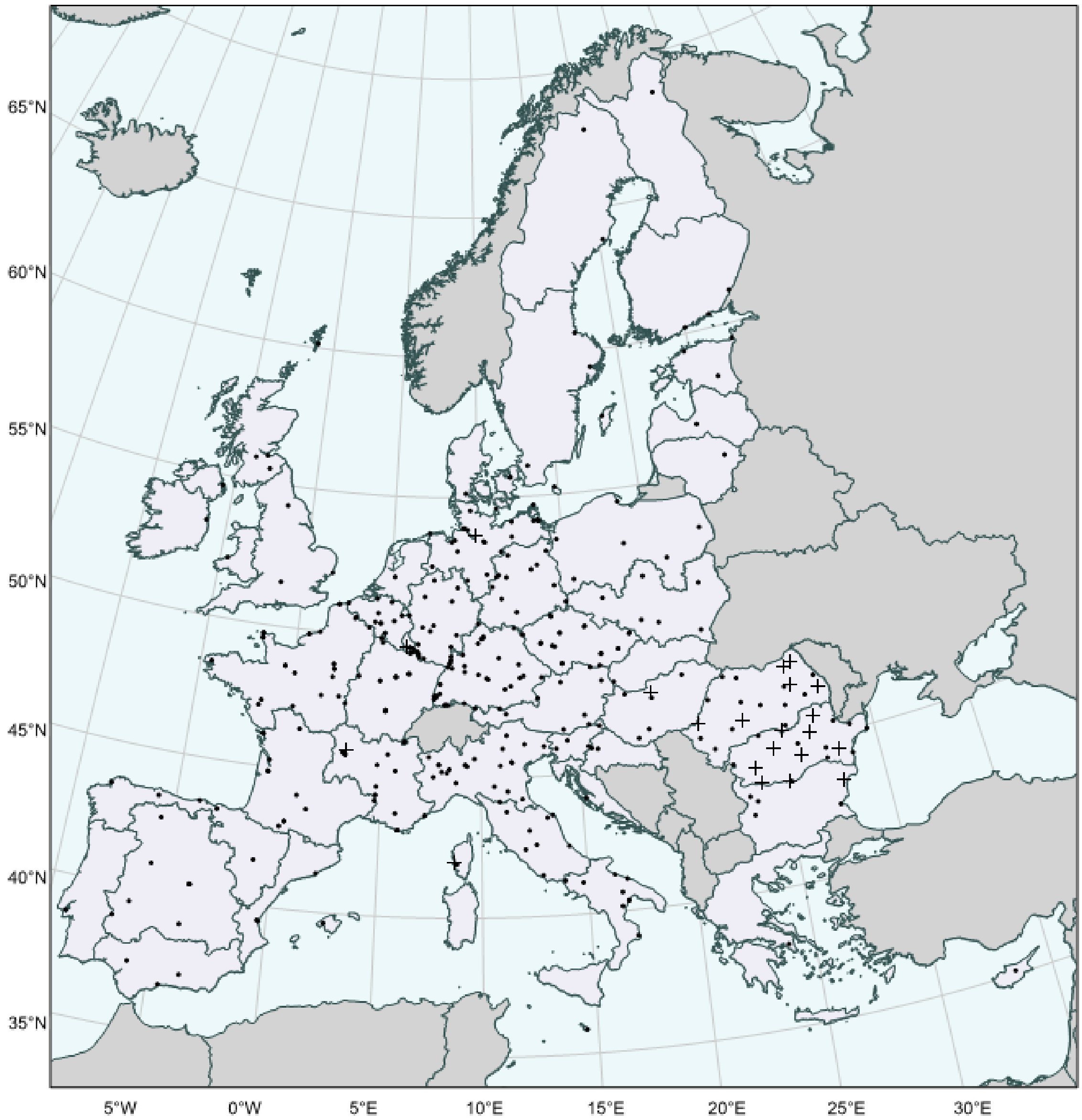
Fig. A10: Geographical and time averages

YEAR	:	2018
SAMPLE TYPE	:	airborne particulates (Bq m^{-3})
NUCLIDE CATEGORY	:	caesium-137 (^{137}Cs)

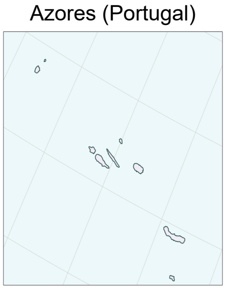
EU (no relevant data reported)			annual avg.	<	0.03	Bq m^{-3}
EU (only relevant constraint values above the reporting level reported)	0.03 Bq m^{-3}	<=	annual avg.	<	0.09	Bq m^{-3}
	0.09 Bq m^{-3}	<=	annual avg.	<	0.3	Bq m^{-3}
Outside EU (in 2018)	0.3 Bq m^{-3}	<=	annual avg.			

. sample location (Coordinate Accuracy = Precise or Not Specified)

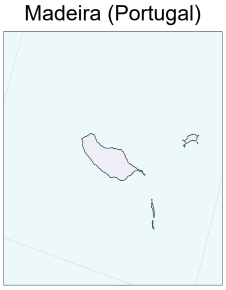
+ regional average (Coordinate Accuracy = Reference Point of Region)



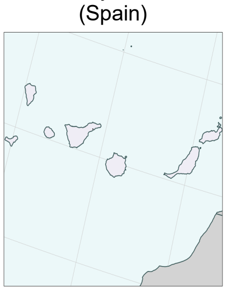
Azores (Portugal)



Madeira (Portugal)



Canary Islands (Spain)



Malta

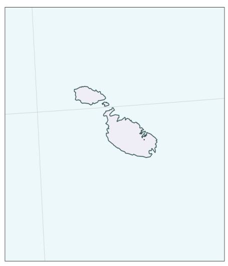


Table A10: Geographical and time averages

DENSE

YEAR : 2018

SAMPLE TYPE : airborne particulates (Bq m^{-3})

NUCLIDE CATEGORY : caesium-137 (^{137}Cs)

Country	N	L	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual average	Monthly max	M
AT	579	10	< RL	< RL	< RL	< RL	< RL	< RL	12
BE	100	10	< RL	< RL	< RL	< RL	< RL	< RL	8
BG	143	6	< RL	< RL	< RL	< RL	< RL	< RL	11
CY	39	1	< RL	< RL	< RL	< RL	< RL	< RL	8
CZ	540	20	< RL	< RL	< RL	< RL	< RL	< RL	4
DE-N	3916	25	< RL	< RL	< RL	< RL	< RL	< RL	11
DE-C	3804	20	< RL	< RL	< RL	< RL	< RL	< RL	9
DE-S	4685	35	< RL	< RL	< RL	< RL	< RL	< RL	5
DE-E	3105	11	< RL	< RL	< RL	< RL	< RL	< RL	11
DE	15510	91	< RL	< RL	< RL	< RL	< RL	< RL	8
DK	71	4	< RL	< RL	< RL	< RL	< RL	< RL	3
EE	154	3	< RL	< RL	< RL	< RL	< RL	< RL	12
ES-N	97	5	< RL	< RL	< RL	< RL	< RL	< RL	12
ES-C	170	9	< RL	< RL	< RL	< RL	< RL	< RL	3
ES-S	134	4	< RL	< RL	< RL	< RL	< RL	< RL	5
ES-E	91	4	< RL	< RL	< RL	< RL	< RL	< RL	2
ES	492	22	< RL	< RL	< RL	< RL	< RL	< RL	5
FI-N	53	1	< RL	< RL	< RL	< RL	< RL	< RL	1
FI-S	149	4	< RL	< RL	< RL	< RL	< RL	< RL	5
FI	202	5	< RL	< RL	< RL	< RL	< RL	< RL	5
FR-NW	448	25	< RL	< RL	< RL	< RL	< RL	< RL	12
FR-NE	273	16	< RL	< RL	< RL	< RL	< RL	< RL	12
FR-SW	218	12	< RL	< RL	< RL	< RL	< RL	< RL	10
FR-SE	334	21	< RL	< RL	< RL	< RL	< RL	< RL	12
FR	1273	74	< RL	< RL	< RL	< RL	< RL	< RL	12
GB-EN	15	3	< RL	< RL	< RL	< RL	< RL	< RL	5
GB-WL	5	1	< RL	< RL	< RL	< RL	< RL	< RL	8
GB-SC	45	4	< RL	< RL	< RL	< RL	< RL	< RL	1
GB-NI	5	1	< RL	< RL	< RL	< RL	< RL	< RL	1
GB	70	9	< RL	< RL	< RL	< RL	< RL	< RL	5
GR	30	1	< RL	< RL	< RL	< RL	< RL	< RL	5
HR-A	4	1	< RL	< RL	< RL	< RL	< RL	< RL	1
HR-C	14	1	< RL	< RL	< RL	< RL	< RL	< RL	2
HR	18	2	< RL	< RL	< RL	< RL	< RL	< RL	2
HU	273	6	< RL	< RL	< RL	< RL	< RL	< RL	12
IE	49	1	< RL	< RL	< RL	< RL	< RL	< RL	7
IT-N	1034	23	< RL	< RL	< RL	< RL	< RL	< RL	5
IT-C	535	8	< RL	< RL	< RL	< RL	< RL	< RL	8
IT-S	63	9	< RL	< RL	< RL	< RL	< RL	< RL	5
IT	1632	40	< RL	< RL	< RL	< RL	< RL	< RL	1
LT	11	1	< RL	< RL	< RL	< RL	< RL	< RL	10
LU	106	2	< RL	< RL	< RL	< RL	< RL	< RL	11
LV	12	1	< RL	< RL	< RL	< RL	< RL	< RL	1
MT	35	1	< RL	< RL	< RL	< RL	< RL	< RL	10
NL	52	1	< RL	< RL	< RL	< RL	< RL	< RL	3
PL-N	6	6	< RL	< RL	< RL	< RL	< RL	< RL	1
PL-S	6	6	< RL	< RL	< RL	< RL	< RL	< RL	1
PL	12	12	< RL	< RL	< RL	< RL	< RL	< RL	1
PT	51	1	< RL	< RL	< RL	< RL	< RL	< RL	9
RO-N	228	19	< RL	< RL	< RL	< RL	< RL	< RL	2
RO-S	216	18	< RL	< RL	< RL	< RL	< RL	< RL	6
RO	444	37	< RL	< RL	< RL	< RL	< RL	< RL	7
SE-N	108	2	< RL	< RL	< RL	< RL	< RL	< RL	5
SE-S	214	4	< RL	< RL	< RL	< RL	< RL	< RL	5
SE	322	6	< RL	< RL	< RL	< RL	< RL	< RL	5
SI	57	5	< RL	< RL	< RL	< RL	< RL	< RL	5
SK	26	1	< RL	< RL	< RL	< RL	< RL	< RL	2

RL: reporting level for ^{137}Cs In air, i.e. 3.0 E-02 BQ/M3 (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
L: Number of sampling locations considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

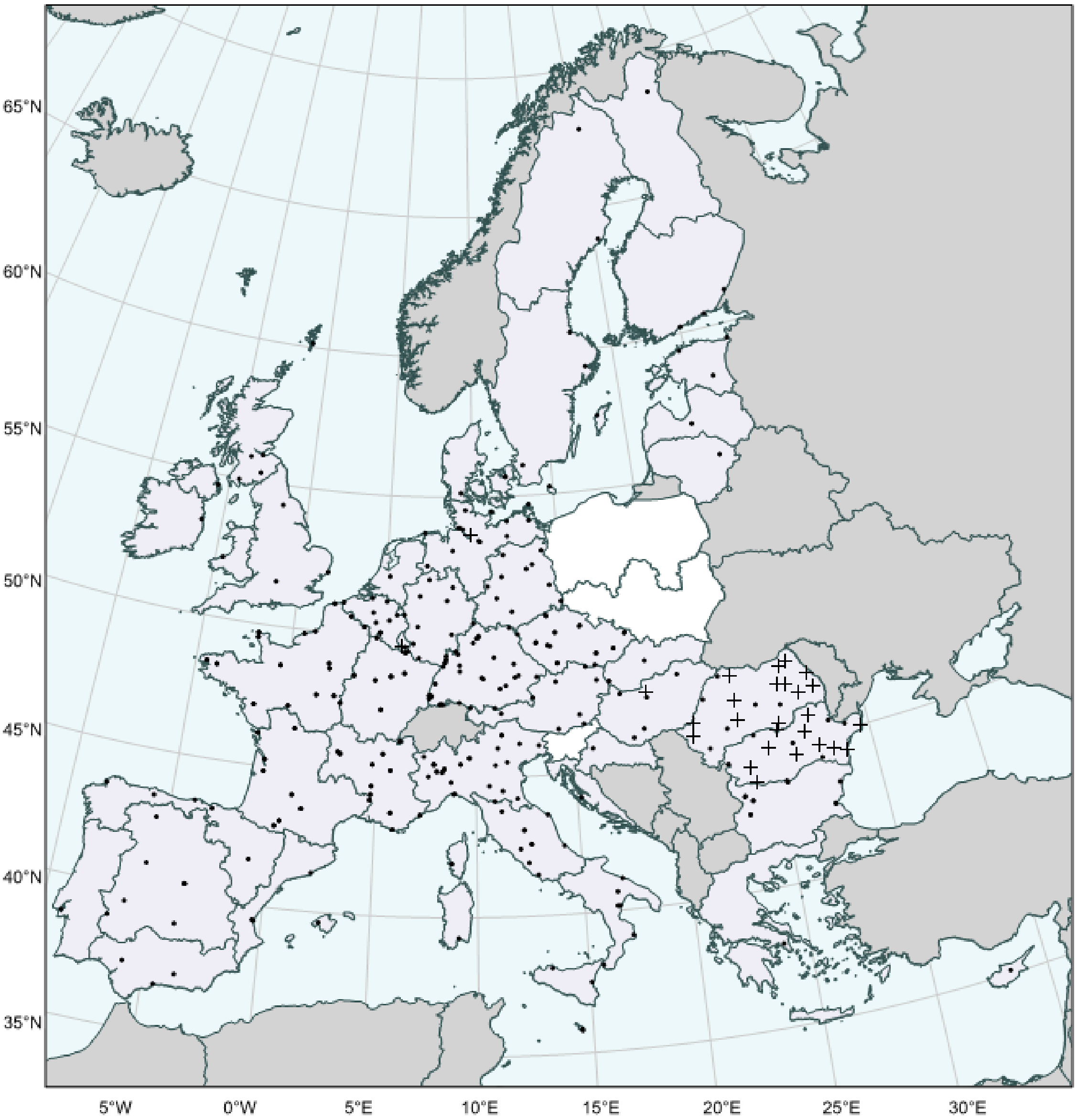
Fig. A11: Geographical and time averages

YEAR	:	2019
SAMPLE TYPE	:	airborne particulates (Bq m^{-3})
NUCLIDE CATEGORY	:	caesium-137 (^{137}Cs)

EU (no relevant data reported)					annual avg.	<	0.03	Bq m^{-3}
EU (only relevant constraint values above the reporting level reported)		0.03	Bq m^{-3}	<=	annual avg.	<	0.09	Bq m^{-3}
		0.09	Bq m^{-3}	<=	annual avg.	<	0.3	Bq m^{-3}
Outside EU (in 2019)		0.3	Bq m^{-3}	<=	annual avg.			

. sample location (Coordinate Accuracy = Precise or Not Specified)

+ regional average (Coordinate Accuracy = Reference Point of Region)



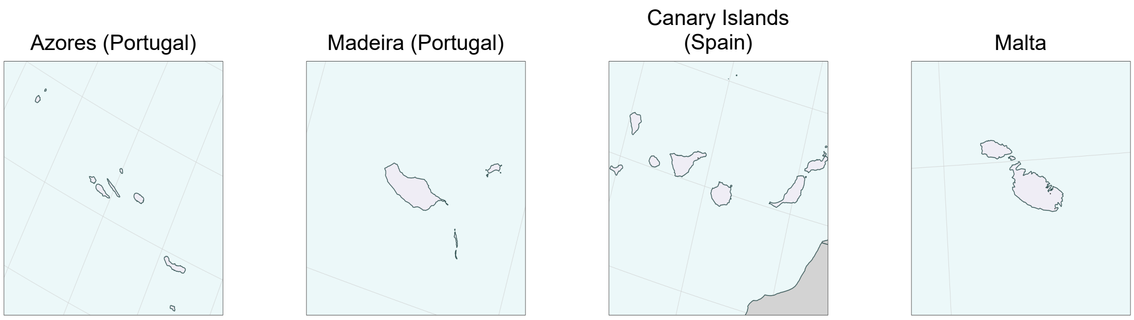


Table A11: Geographical and time averages

YEAR : **2019**
SAMPLE TYPE : **airborne particulates (Bq m^{-3})**
NUCLIDE CATEGORY : **caesium-137 (^{137}Cs)**

DENSE

Country	N	L	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual average	Monthly max	M
AT	573	10	< RL	< RL	< RL	< RL	< RL	< RL	12
BE	100	7	< RL	< RL	< RL	< RL	< RL	< RL	5
BG	122	10	< RL	< RL	< RL	< RL	< RL	< RL	4
CY	40	1	< RL	< RL	< RL	< RL	< RL	< RL	2
CZ	525	19	< RL	< RL	< RL	< RL	< RL	< RL	4
DE-N	3616	15	< RL	< RL	< RL	< RL	< RL	< RL	11
DE-C	3487	12	< RL	< RL	< RL	< RL	< RL	< RL	11
DE-S	4562	33	< RL	< RL	< RL	< RL	< RL	< RL	7
DE-E	3143	10	< RL	< RL	< RL	< RL	< RL	< RL	11
DE	14808	70	< RL	< RL	< RL	< RL	< RL	< RL	7
DK	67	4	< RL	< RL	< RL	< RL	< RL	< RL	4
EE	157	3	< RL	< RL	< RL	< RL	< RL	< RL	4
ES-N	106	5	< RL	< RL	< RL	< RL	< RL	< RL	2
ES-C	170	9	< RL	< RL	< RL	< RL	< RL	< RL	2
ES-S	129	4	< RL	< RL	< RL	< RL	< RL	< RL	11
ES-E	81	4	< RL	< RL	< RL	< RL	< RL	< RL	9
ES	486	22	< RL	< RL	< RL	< RL	< RL	< RL	11
FI-N	59	1	< RL	< RL	< RL	< RL	< RL	< RL	4
FI-S	331	3	< RL	< RL	< RL	< RL	< RL	< RL	8
FI	390	4	< RL	< RL	< RL	< RL	< RL	< RL	8
FR-NW	780	32	< RL	< RL	< RL	< RL	< RL	< RL	4
FR-NE	501	21	< RL	< RL	< RL	< RL	< RL	< RL	11
FR-SW	447	18	< RL	< RL	< RL	< RL	< RL	< RL	9
FR-SE	541	25	< RL	< RL	< RL	< RL	< RL	< RL	11
FR	2269	96	< RL	< RL	< RL	< RL	< RL	< RL	11
GB-EN	4	4	< RL			< RL	< RL	< RL	12
GB-WL	1	1	< RL				< RL	< RL	1
GB-SC	54	5	< RL	< RL	< RL	< RL	< RL	< RL	1
GB-NI	1	1	< RL				< RL	< RL	1
GB	60	11	< RL	< RL	< RL	< RL	< RL	< RL	2
GR	17	1	< RL	< RL	< RL	< RL	< RL	< RL	3
HR-A	4	1	< RL	< RL	< RL	< RL	< RL	< RL	11
HR-C	12	1	< RL	< RL	< RL	< RL	< RL	< RL	1
HR	16	2	< RL	< RL	< RL	< RL	< RL	< RL	11
HU	266	6	< RL	< RL	< RL	< RL	< RL	< RL	1
IE	50	1	< RL	< RL	< RL	< RL	< RL	< RL	2
IT-N	1126	29	< RL	< RL	< RL	< RL	< RL	< RL	7
IT-C	606	10	< RL	< RL	< RL	< RL	< RL	< RL	9
IT-S	382	9	< RL	< RL	< RL	< RL	< RL	< RL	4
IT	2114	48	< RL	< RL	< RL	< RL	< RL	< RL	7
LT	11	1	< RL	< RL	< RL	< RL	< RL	< RL	4
LU	105	2	< RL	< RL	< RL	< RL	< RL	< RL	11
LV	24	1	< RL	< RL	< RL	< RL	< RL	< RL	1
MT	43	2	< RL	< RL	< RL	< RL	< RL	< RL	7
NL	53	1	< RL	< RL	< RL	< RL	< RL	< RL	4
PL-N									
PL-S									
PL									
PT	47	1	< RL	< RL	< RL	< RL	< RL	< RL	6
RO-N	228	19	< RL	< RL	< RL	< RL	< RL	< RL	2
RO-S	216	18	< RL	< RL	< RL	< RL	< RL	< RL	2
RO	444	37	< RL	< RL	< RL	< RL	< RL	< RL	2
SE-N	106	2	< RL	< RL	< RL	< RL	< RL	< RL	6
SE-S	222	4	< RL	< RL	< RL	< RL	< RL	< RL	4
SE	328	6	< RL	< RL	< RL	< RL	< RL	< RL	4
SI									
SK	65	3	< RL	< RL	< RL	< RL	< RL	< RL	5

RL: reporting level for ^{137}Cs In air, i.e. 3.0 E-02 BQ/M3 (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
L: Number of sampling locations considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

DENSE

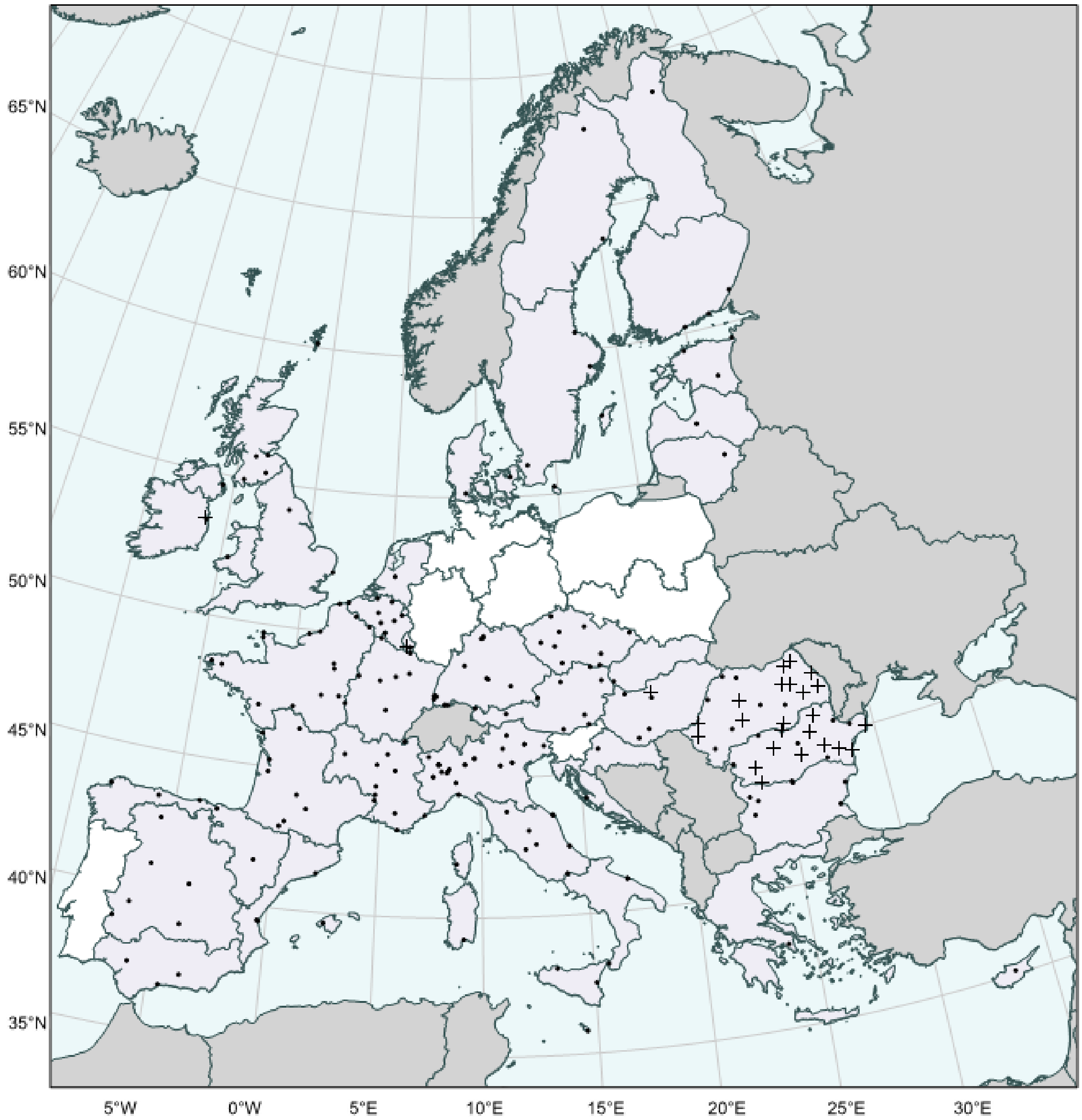
Fig. A12: Geographical and time averages

YEAR	:	**2020**
SAMPLE TYPE	:	**airborne particulates (Bq m^{-3})**
NUCLIDE CATEGORY	:	**caesium-137 (^{137}Cs)**

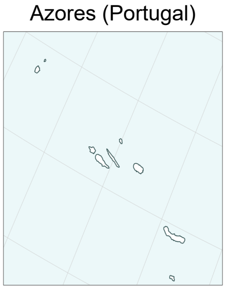
Legend						
EU (no relevant data reported)				annual avg.	<	0.03 Bq m^{-3}
EU (only relevant constraint values above the reporting level reported)	0.03 Bq m^{-3}	<=		annual avg.	<	0.09 Bq m^{-3}
	0.09 Bq m^{-3}	<=		annual avg.	<	0.3 Bq m^{-3}
Outside EU (in 2020)	0.3 Bq m^{-3}	<=		annual avg.		

. sample location (Coordinate Accuracy = Precise or Not Specified)

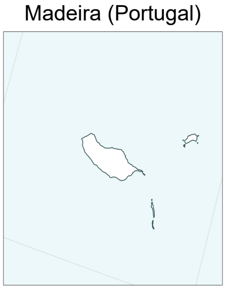
+ regional average (Coordinate Accuracy = Reference Point of Region)



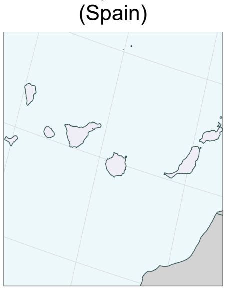
Azores (Portugal)



Madeira (Portugal)



Canary Islands (Spain)



Malta

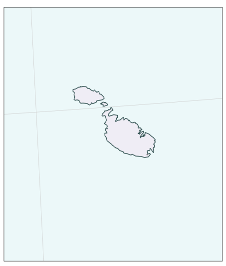


Table A12: Geographical and time averages

YEAR	:	**2020**
SAMPLE TYPE	:	**airborne particulates (Bq m^{-3})**
NUCLIDE CATEGORY	:	**caesium-137 (^{137}Cs)**

DENSE

Country	N	L	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual average	Monthly max	M
AT	576	10	< RL	< RL	< RL	< RL	< RL	< RL	1
BE	185	7	< RL	< RL	< RL	< RL	< RL	< RL	12
BG	120	6	< RL	< RL	< RL	< RL	< RL	< RL	4
CY	41	1	< RL	< RL	< RL	< RL	< RL	< RL	4
CZ	424	8	< RL	< RL	< RL	< RL	< RL	< RL	4
DE-N									
DE-C									
DE-S	20	13	< RL				< RL	< RL	1
DE-E									
DE	20	13	< RL				< RL	< RL	1
DK	76	3	< RL	< RL	< RL	< RL	< RL	< RL	12
EE	155	3	< RL	< RL	< RL	< RL	< RL	< RL	6
ES-N	95	5	< RL	< RL	< RL	< RL	< RL	< RL	11
ES-C	165	7	< RL	< RL	< RL	< RL	< RL	< RL	2
ES-S	127	4	< RL	< RL	< RL	< RL	< RL	< RL	5
ES-E	83	4	< RL	< RL	< RL	< RL	< RL	< RL	5
ES	470	20	< RL	< RL	< RL	< RL	< RL	< RL	5
FI-N	26	1	< RL	< RL			< RL	< RL	1
FI-S	452	4	< RL	< RL	< RL	< RL	< RL	< RL	6
FI	478	5	< RL	< RL	< RL	< RL	< RL	< RL	9
FR-NW	654	15	< RL	< RL	< RL	< RL	< RL	< RL	9
FR-NE	410	10	< RL	< RL	< RL	< RL	< RL	< RL	9
FR-SW	379	9	< RL	< RL	< RL	< RL	< RL	< RL	11
FR-SE	436	11	< RL	< RL	< RL	< RL	< RL	< RL	9
FR	1879	45	< RL	< RL	< RL	< RL	< RL	< RL	9
GB-EN	8	2	< RL	< RL	< RL	< RL	< RL	< RL	10
GB-WL	4	1	< RL	< RL	< RL	< RL	< RL	< RL	7
GB-SC	43	5	< RL	< RL	< RL	< RL	< RL	< RL	1
GB-NI	4	1	< RL	< RL	< RL	< RL	< RL	< RL	11
GB	59	9	< RL	< RL	< RL	< RL	< RL	< RL	12
GR	32	1	< RL	< RL	< RL	< RL	< RL	< RL	9
HR-A	5	1	< RL	< RL	< RL	< RL	< RL	< RL	2
HR-C	14	1	< RL	< RL	< RL	< RL	< RL	< RL	4
HR	19	2	< RL	< RL	< RL	< RL	< RL	< RL	1
HU	240	5	< RL	< RL	< RL	< RL	< RL	< RL	12
IE	51	2	< RL	< RL	< RL	< RL	< RL	< RL	12
IT-N	1335	26	< RL	< RL	< RL	< RL	< RL	< RL	5
IT-C	665	11	< RL	< RL	< RL	< RL	< RL	< RL	9
IT-S	380	6	< RL	< RL	< RL	< RL	< RL	< RL	10
IT	2380	43	< RL	< RL	< RL	< RL	< RL	< RL	5
LT	12	1	< RL	< RL	< RL	< RL	< RL	< RL	10
LU	106	2	< RL	< RL	< RL	< RL	< RL	< RL	3
LV	12	1	< RL	< RL	< RL	< RL	< RL	< RL	10
MT	25	1	< RL	< RL	< RL	< RL	< RL	< RL	4
NL	53	1	< RL	< RL	< RL	< RL	< RL	< RL	4
PL-N									
PL-S									
PL									
PT									
RO-N	231	19	< RL	< RL	< RL	< RL	< RL	< RL	11
RO-S	222	18	< RL	< RL	< RL	< RL	< RL	< RL	7
RO	453	37	< RL	< RL	< RL	< RL	< RL	< RL	7
SE-N	106	2	< RL	< RL	< RL	< RL	< RL	< RL	6
SE-S	221	4	< RL	< RL	< RL	< RL	< RL	< RL	6
SE	327	6	< RL	< RL	< RL	< RL	< RL	< RL	6
SI									
SK	22	1	< RL	< RL	< RL	< RL	< RL	< RL	6

RL: reporting level for ^{137}Cs In air, i.e. 3.0 E-02 BQ/M3 (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
L: Number of sampling locations considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

Fig. S1
Sampling locations for residual-β and ^{137}Cs in surface water (Tables S1 – S72)

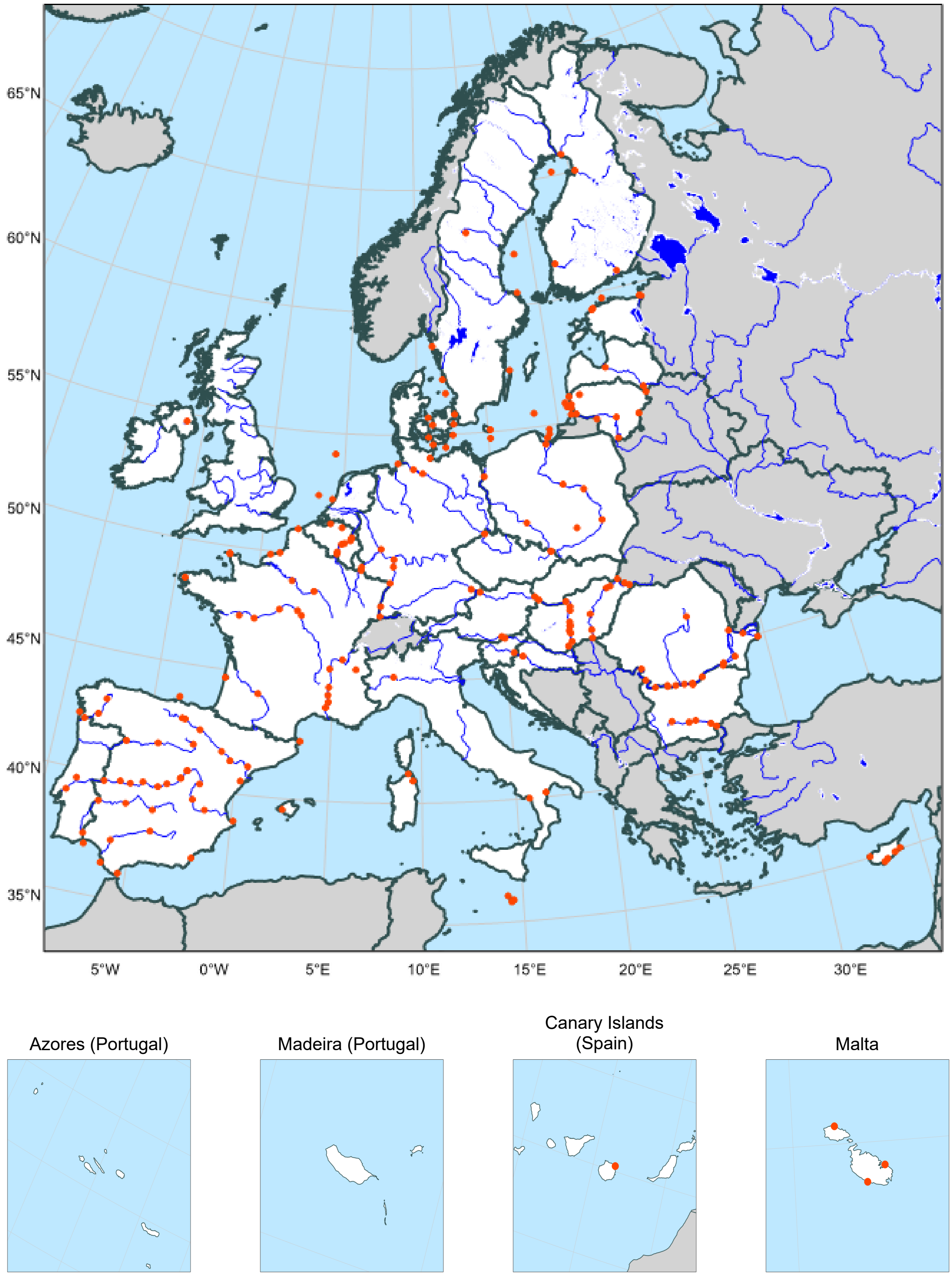
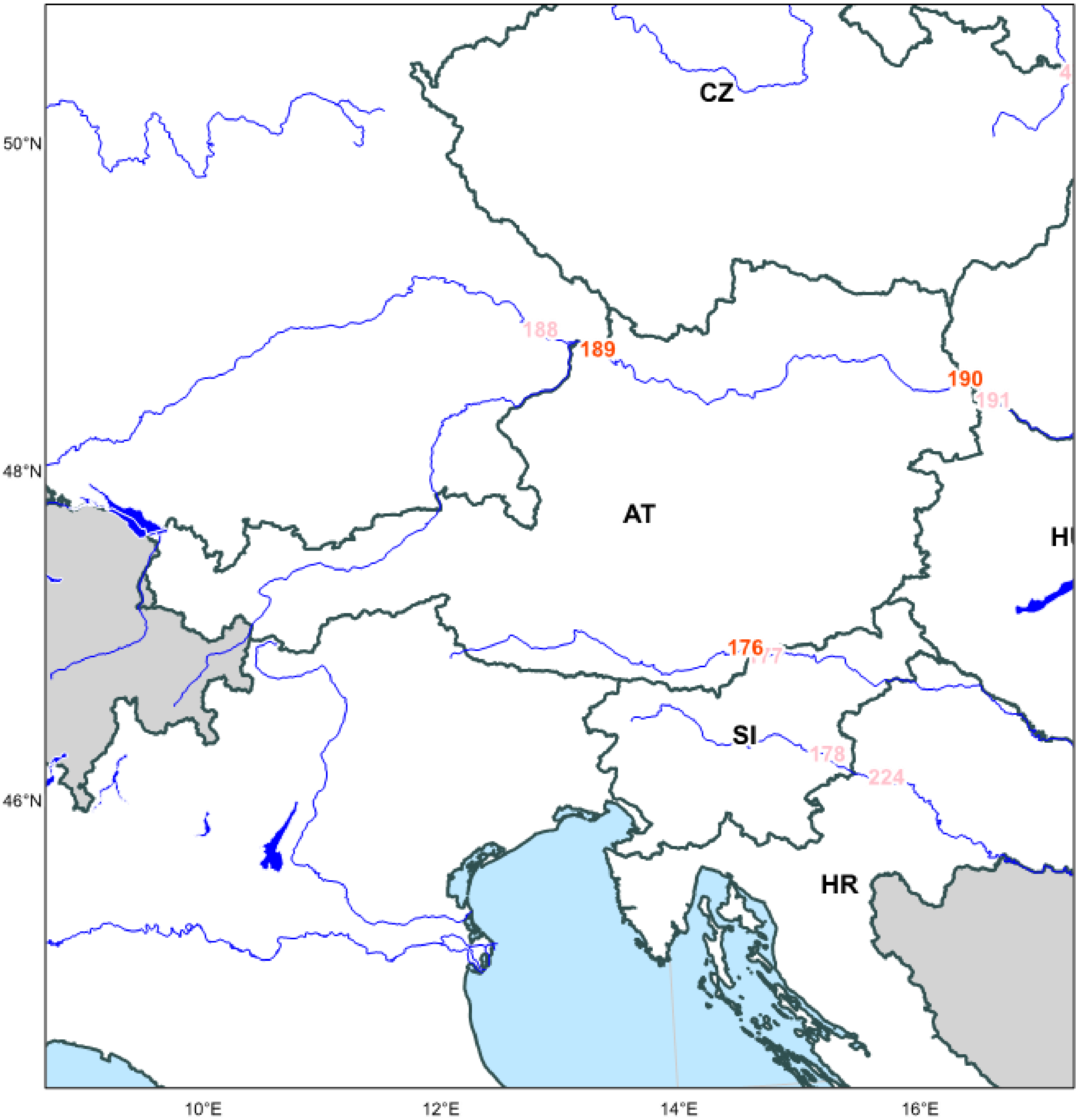


Fig. S2

Sampling locations for residual-β and ^{137}Cs in surface water (Tables S1 – S72): Austria

DENSE

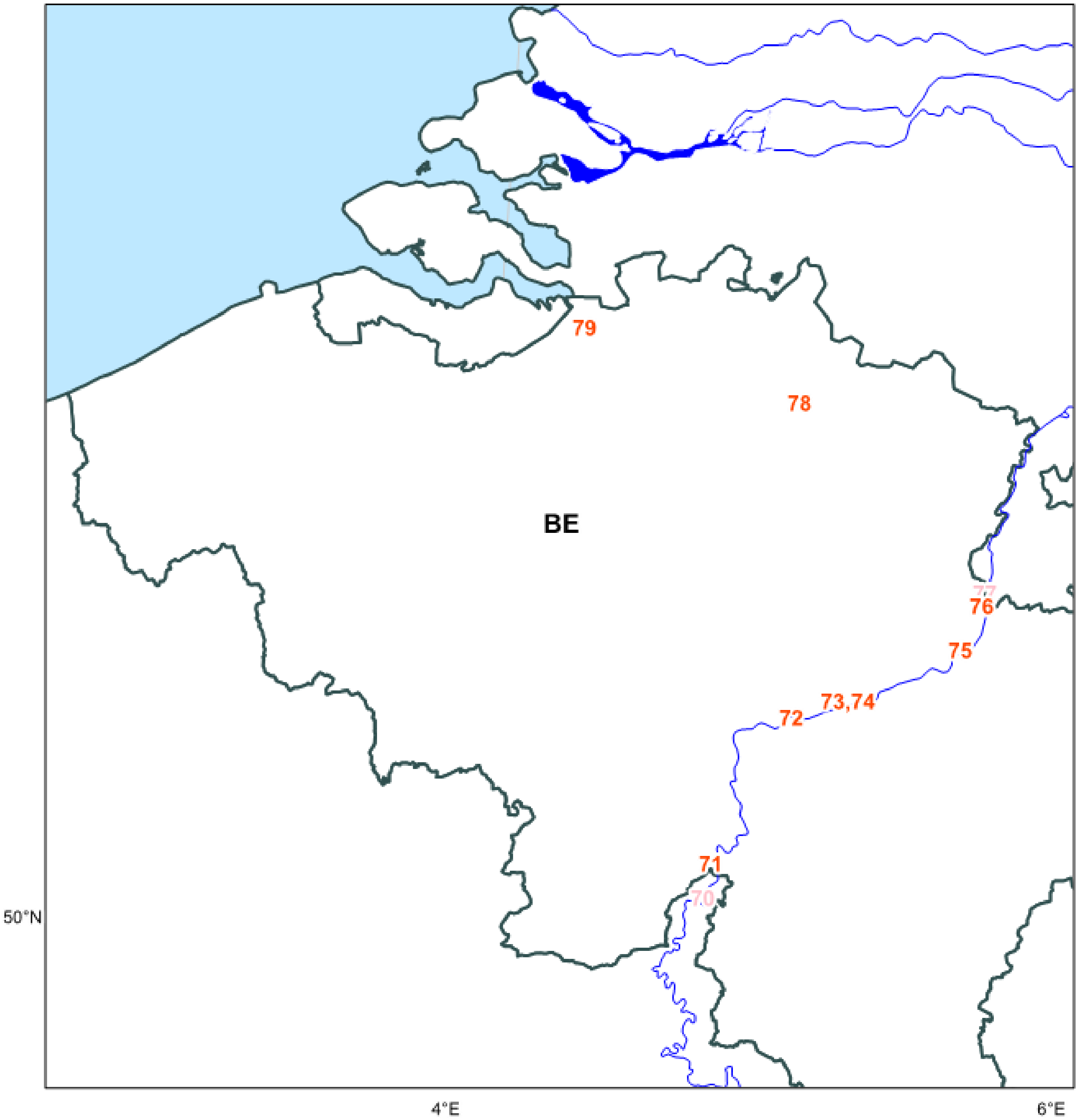


176 Schwabegg
189 Jochenstein
190 Wolfsthal

DENSE

Fig. S3

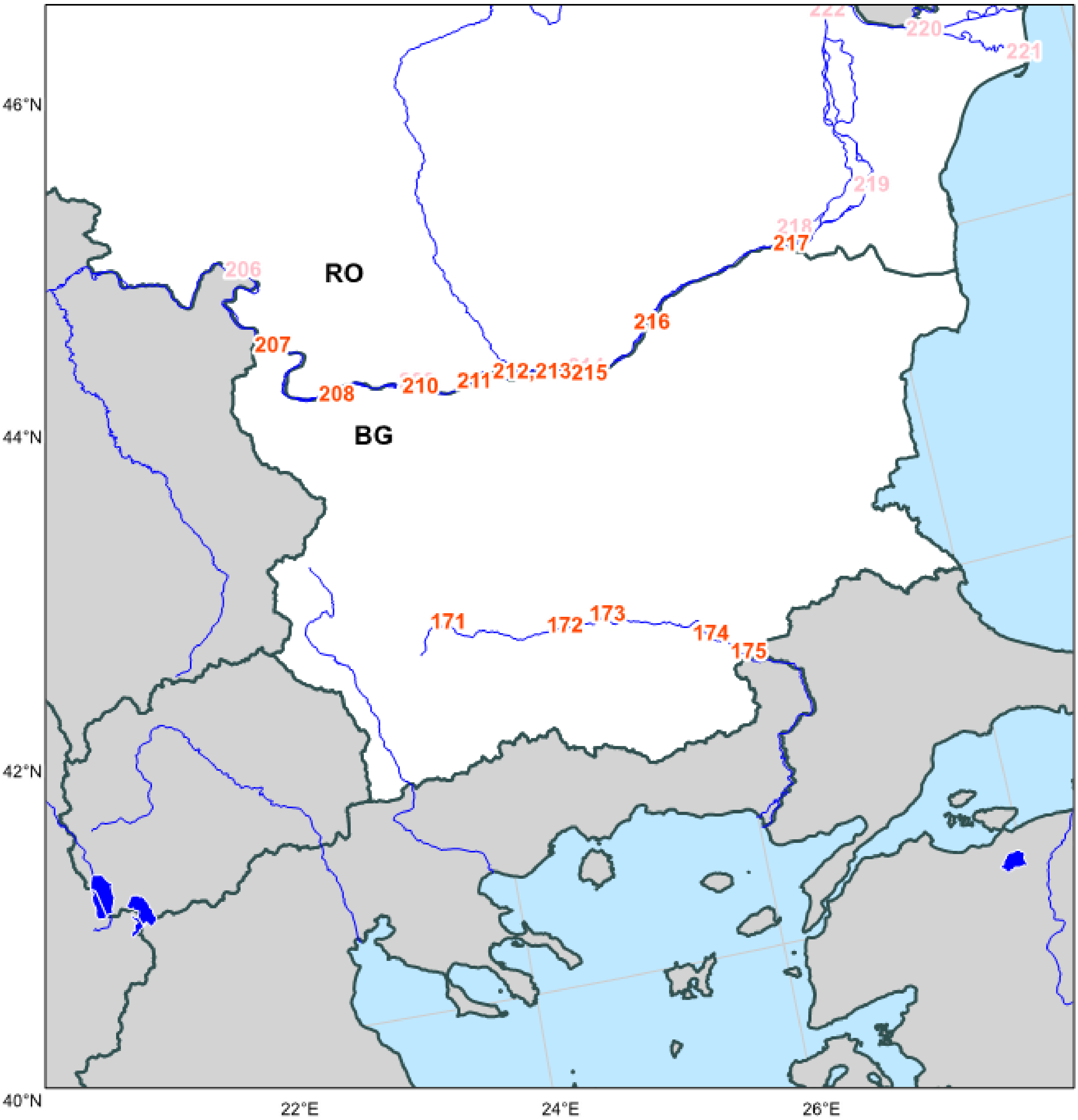
Sampling locations for residual-β and ^{137}Cs in surface water (Tables S1 – S72): Belgium



71 Heer-Agimont
72 Andenne
73 Huy
74 Ampsin
75 Monsin
76 Lixhe
78 Geel
79 Doel

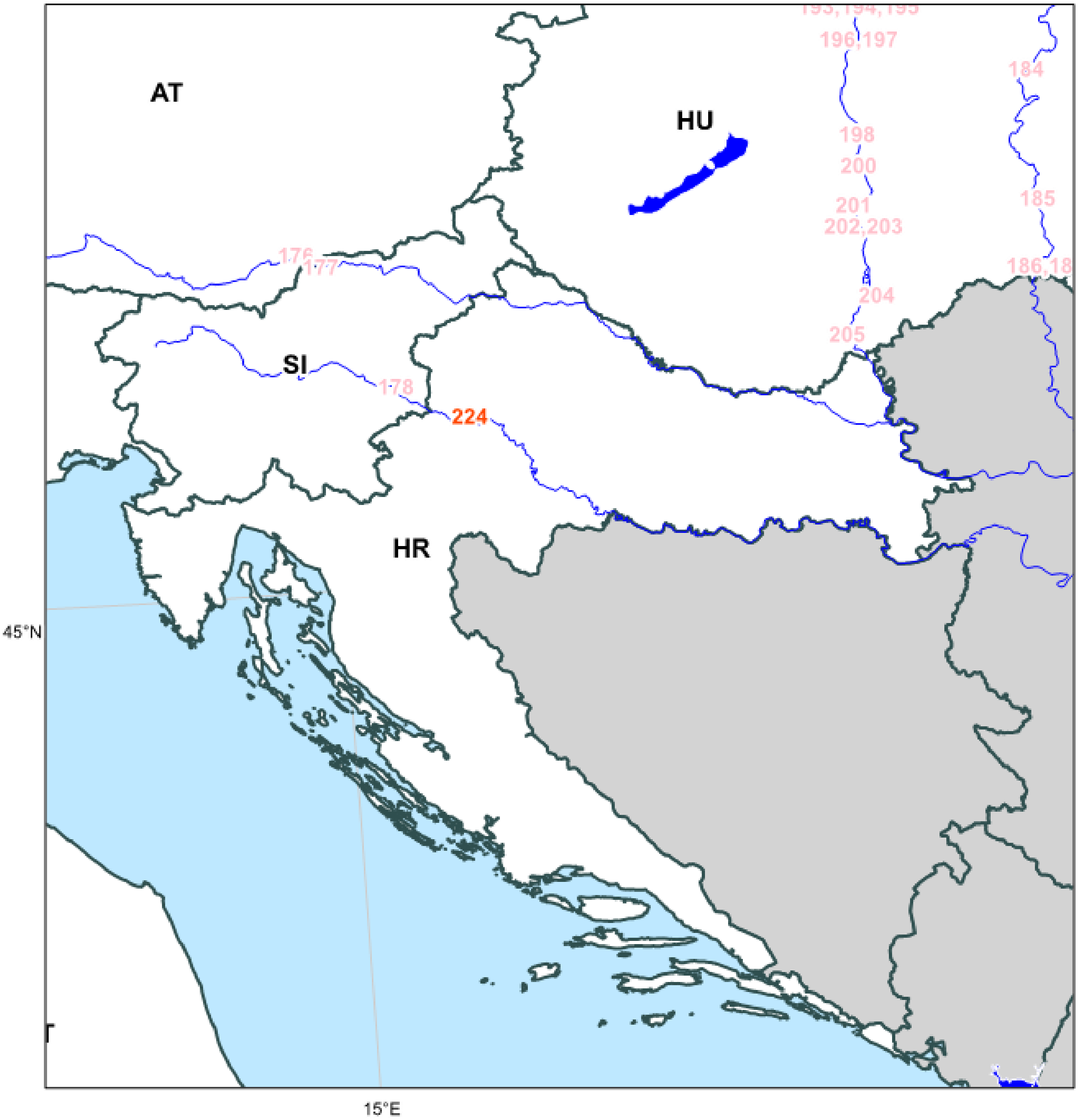
Fig. S4

Sampling locations for residual-β and ^{137}Cs in surface water (Tables S1 – S72): Bulgaria



171 Kostenec
172 Plovdiv
173 Mirovo
174 Harmanli
175 Svilengrad
207 Novo Selo
208 Ruse
210 Oriahovo
211 Baykal
212 Nikopol
213 Belene
215 Svishtov
216 Ruse
217 Silistra

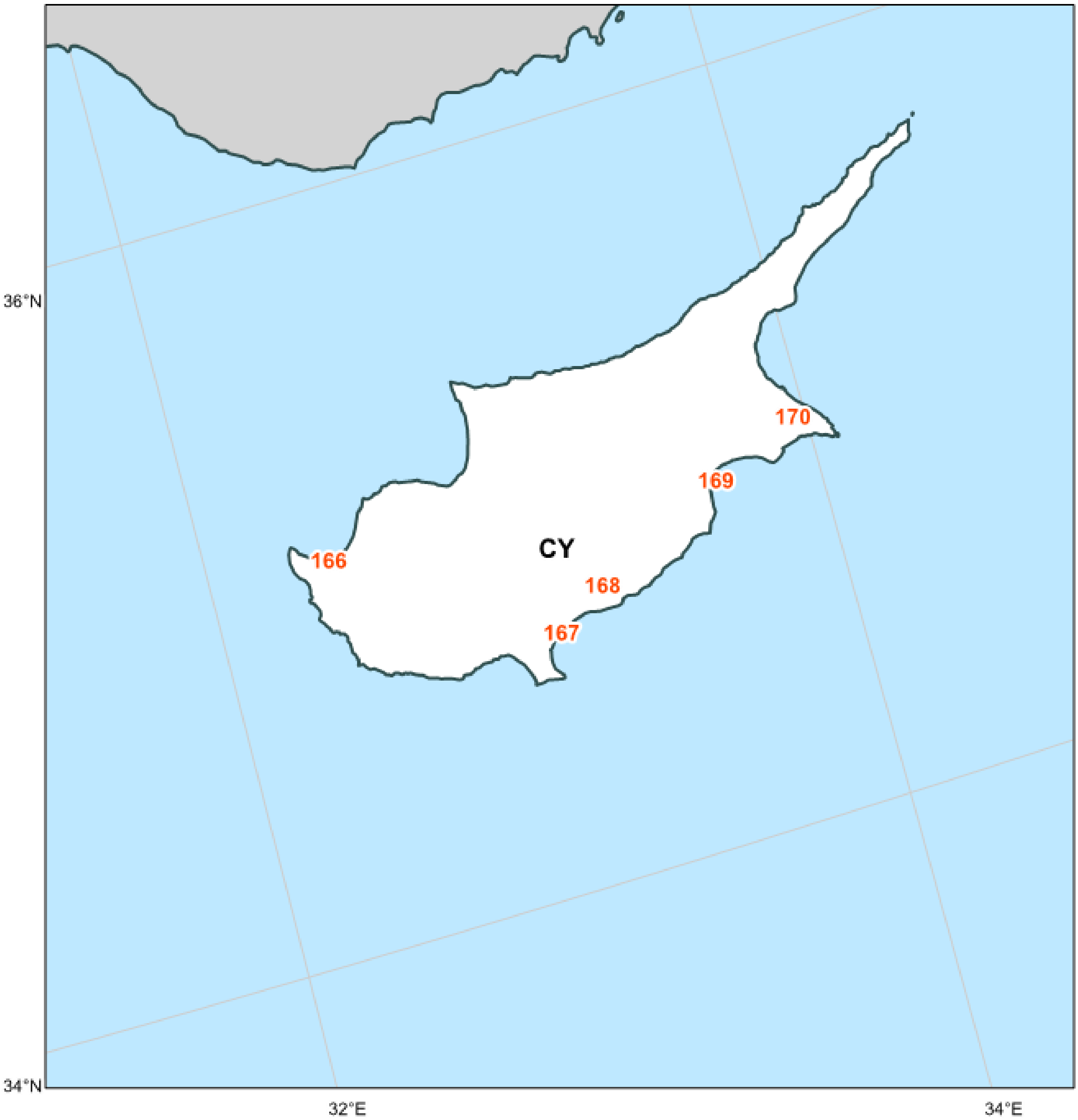
Fig. S5
Sampling locations for residual-β and ^{137}Cs in surface water (Tables S1 – S72): Croatia



224 Zagreb

Fig. S6
Sampling locations for residual-β and ^{137}Cs in surface water (Tables S1 – S72): Cyprus

DENSE

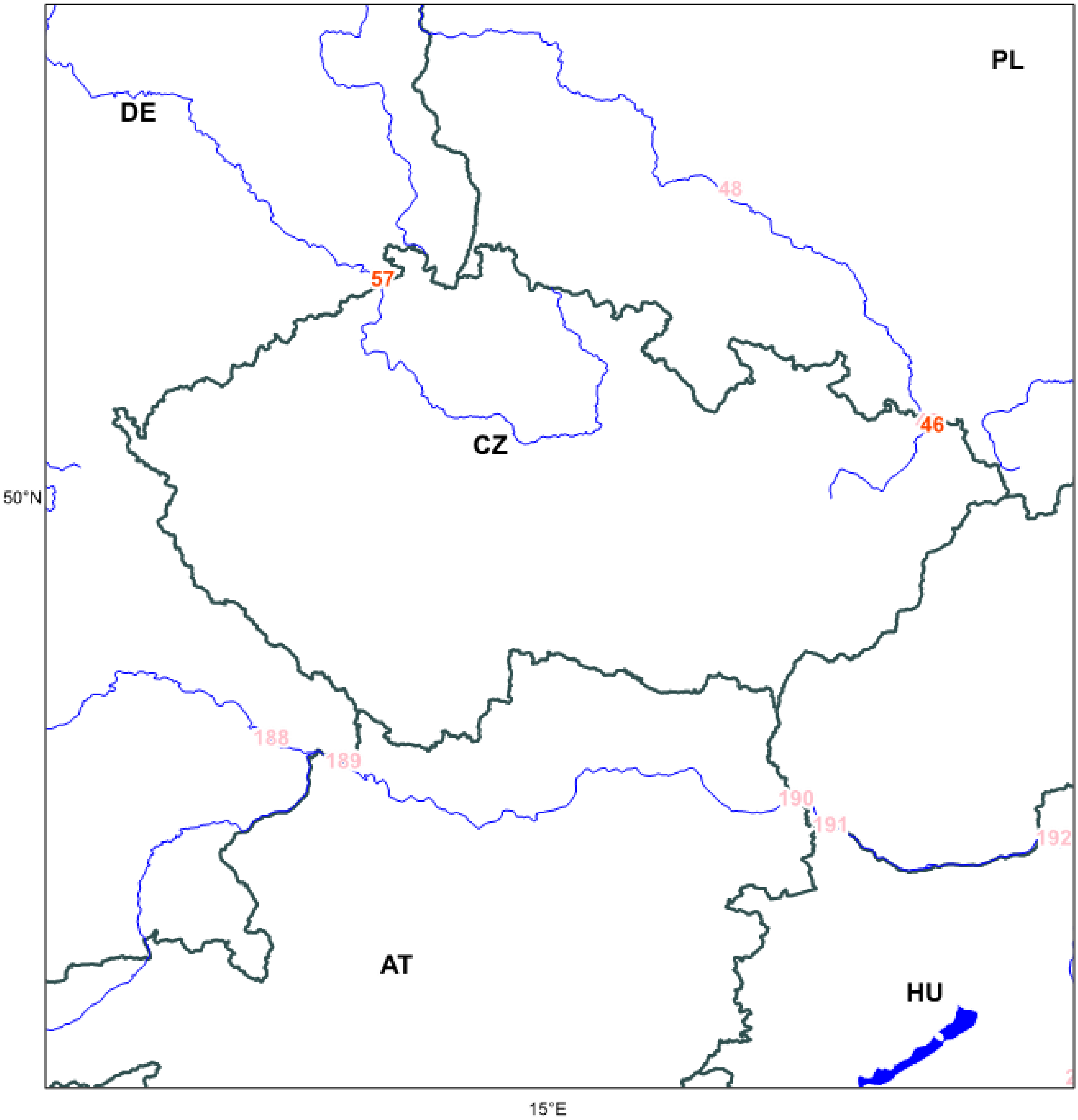


166 Polis
167 Limassol
168 Vasilikos
169 Larnaca
170 Paralimni

DENSE

Fig. S7

Sampling locations for residual-β and ^{137}Cs in surface water (Tables S1 – S72): Czech Republic



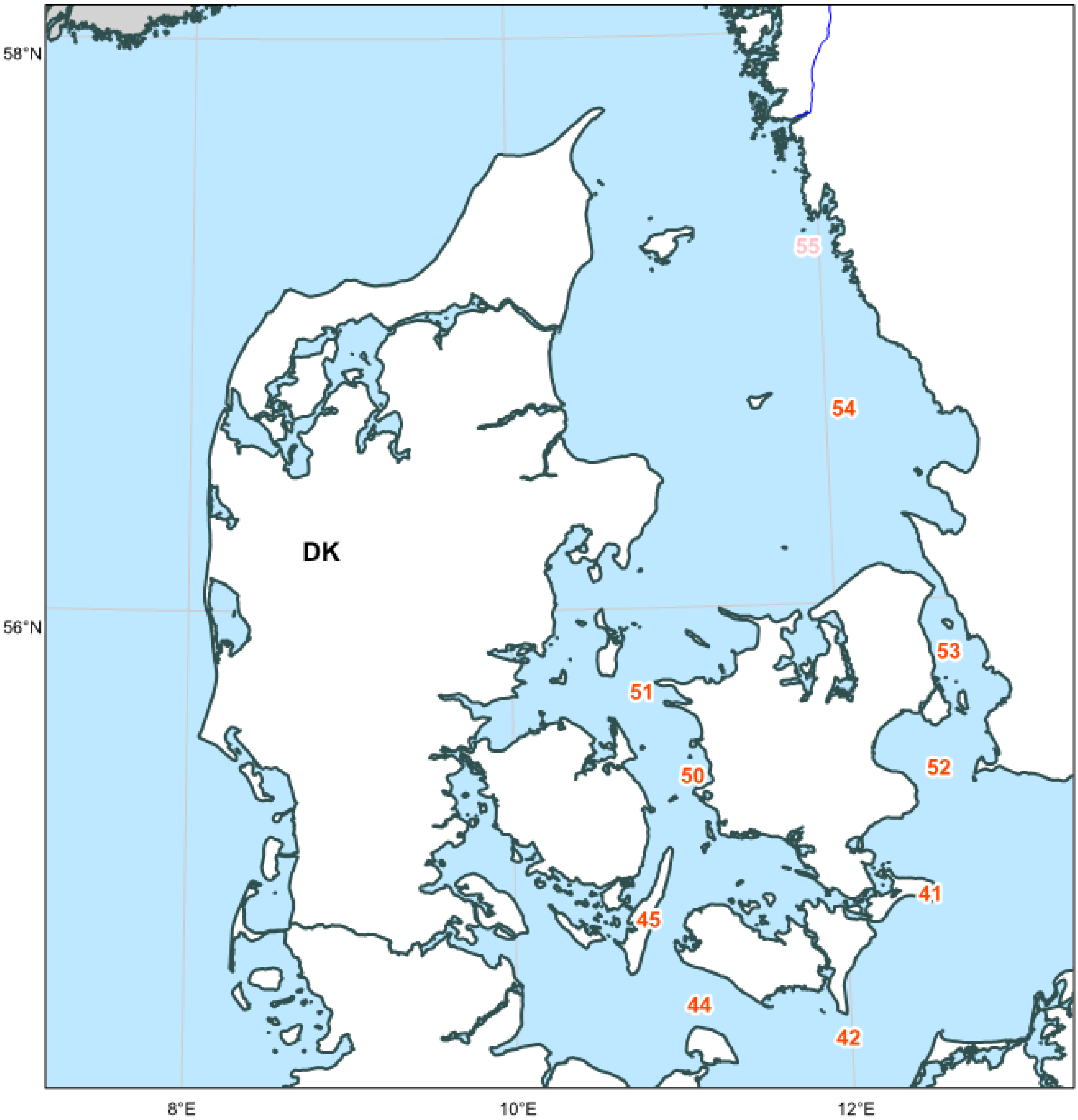
46 Bohumin

57 Hrensko

Fig. S8

Sampling locations for residual-β and ^{137}Cs in surface water (Tables S1 – S72): Denmark

DENSE

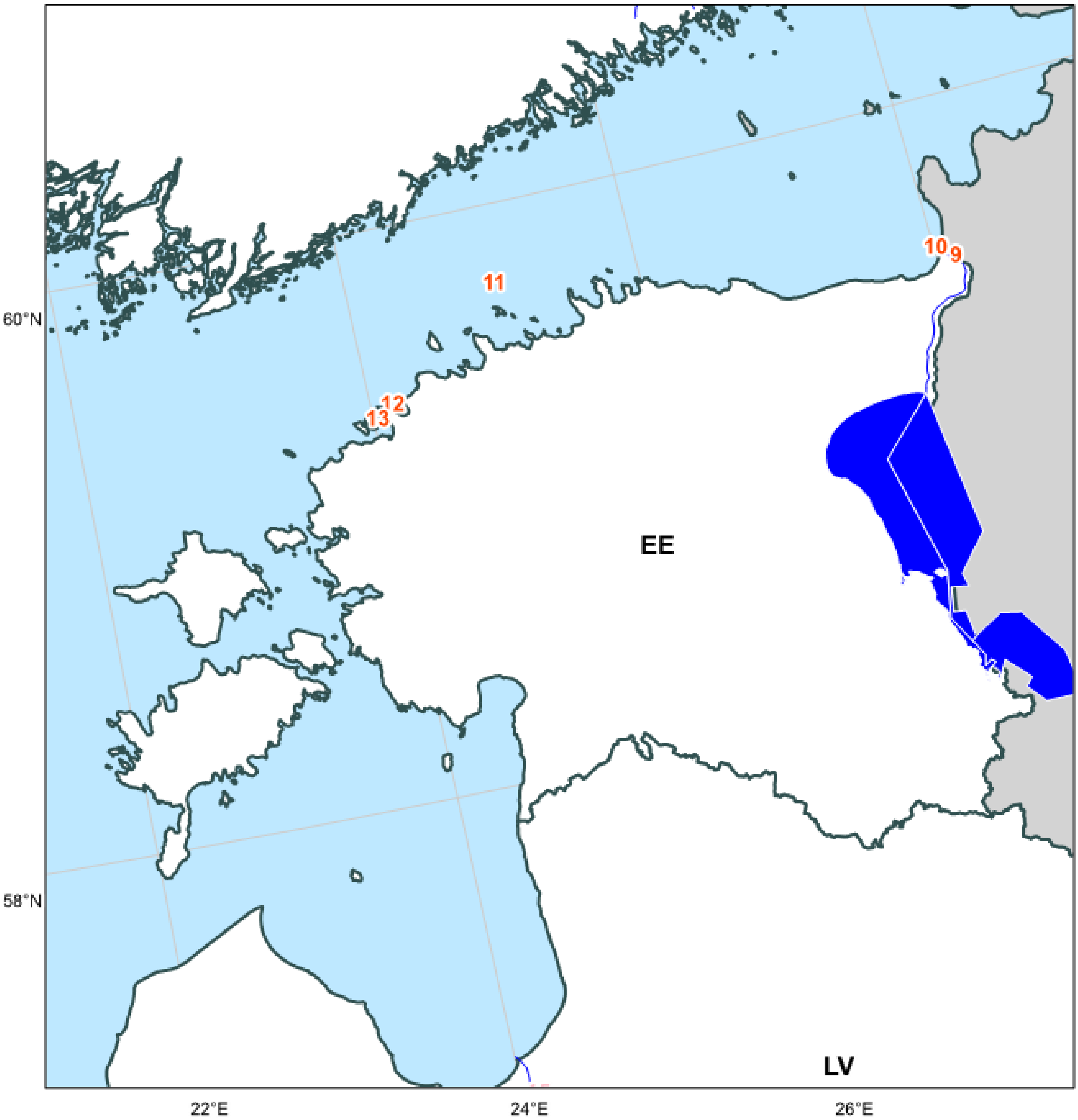


40 Svenskehavn
41 Moen
42 Gedser Odde
44 Femern Baelt
45 Langeland Baelt
50 Halskov Rev
51 Asnaes Rev
52 The Sound S
53 The Sound N(A)
54 Kattegat-413

DENSE

Fig. S9

Sampling locations for residual-β and ^{137}Cs in surface water (Tables S1 – S72): Estonia



9	Narva
10	Gulf Of Finland, N8
11	Gulf Of Finland, EE17
12	Gulf Of Finland, PE
13	Gulf Of Finland, PW

DENSE

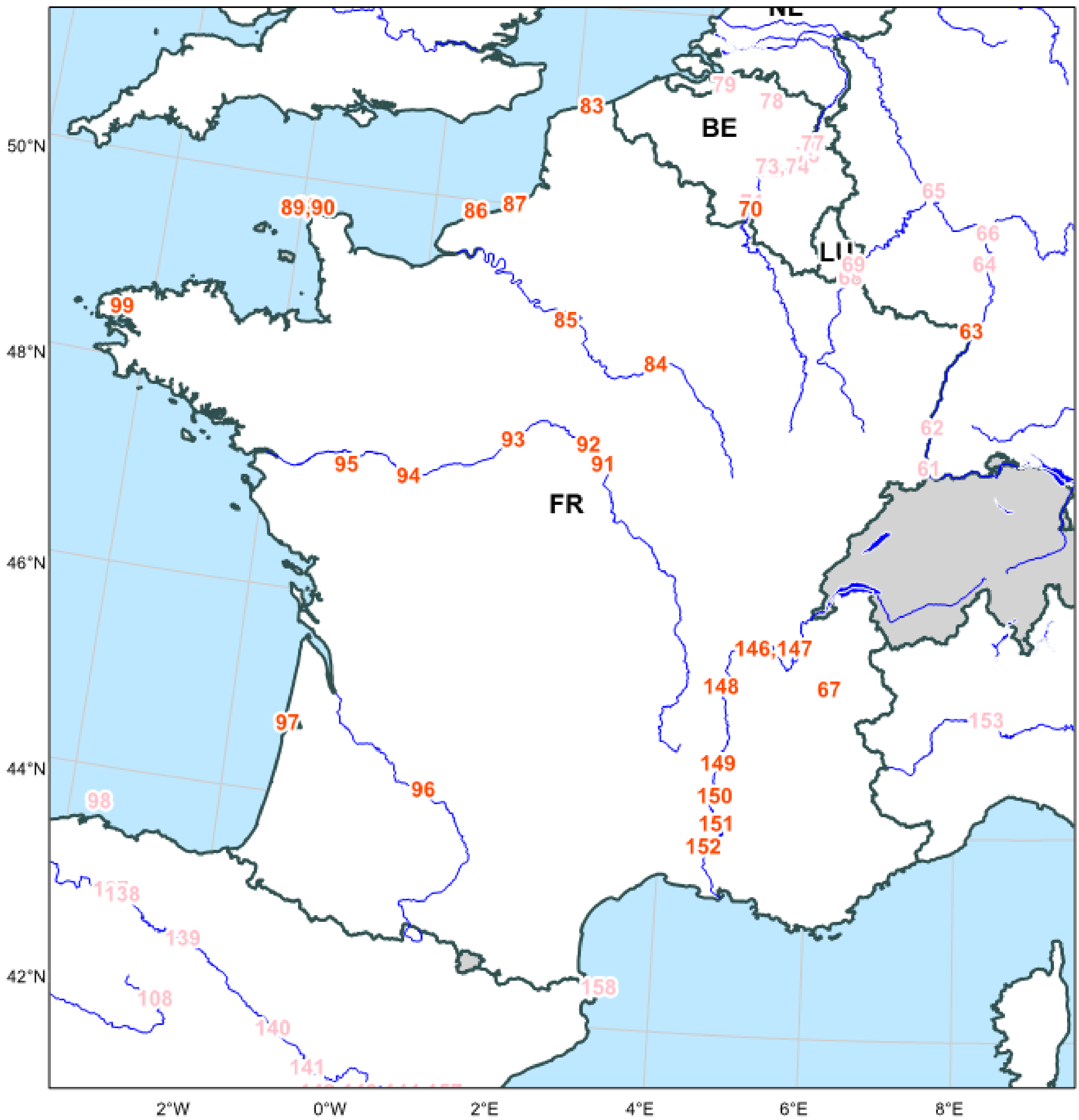
Fig. S10

Sampling locations for residual-β and ^{137}Cs in surface water (Tables S1 – S72): Finland

5 Kemi
6 Oulu
7 Pori
8 Kotka

Fig. S11

Sampling locations for residual-β and ^{137}Cs in surface water (Tables S1 – S72): France

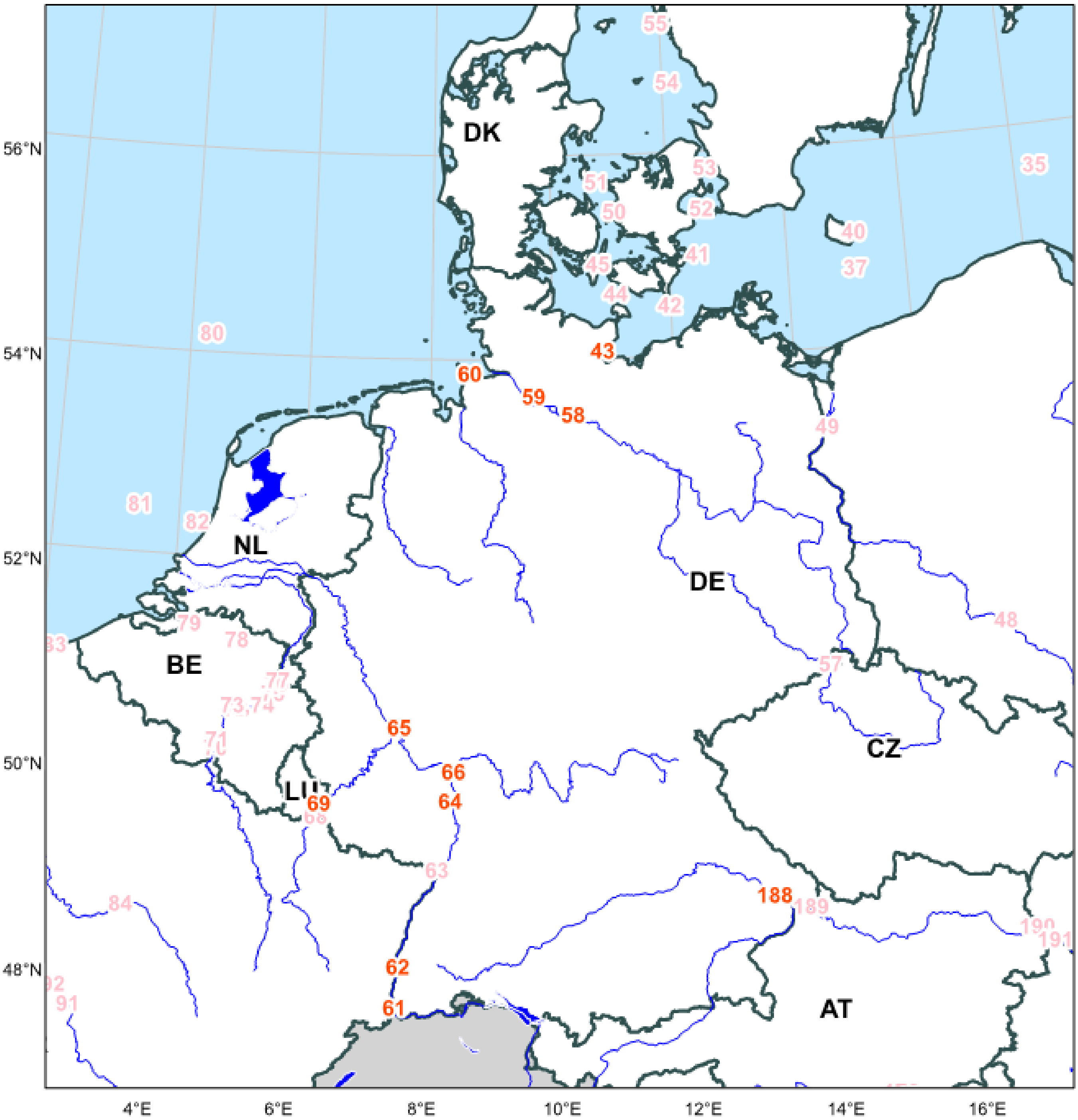


63 Lauterbourg
67 Cattenom (Aval)
70 Chooz (Givet)
83 Gravelines (EDF)
84 Nogent sur Seine
85 Le Vesinet
86 Paluel
87 Penly
88 Jobourg
89 La Hague-Jardeheu
90 Flamanville
91 Belleville sur Loire
92 Dampierre en Burly
93 Saint Laurent des Eaux
94 Chinon (Candes-Aval)
95 Angers (EDF)
96 Golfech - St. Romain le Noble
97 Arcachon
99 Brest
146 Creys-Malville (EDF)
147 Le Bugey (Loyettes)
148 Saint Alban
149 Cruas (Aval)
150 Tricastin
151 Roquemaure (Marcoule)
152 Vallabregues

Fig. S12

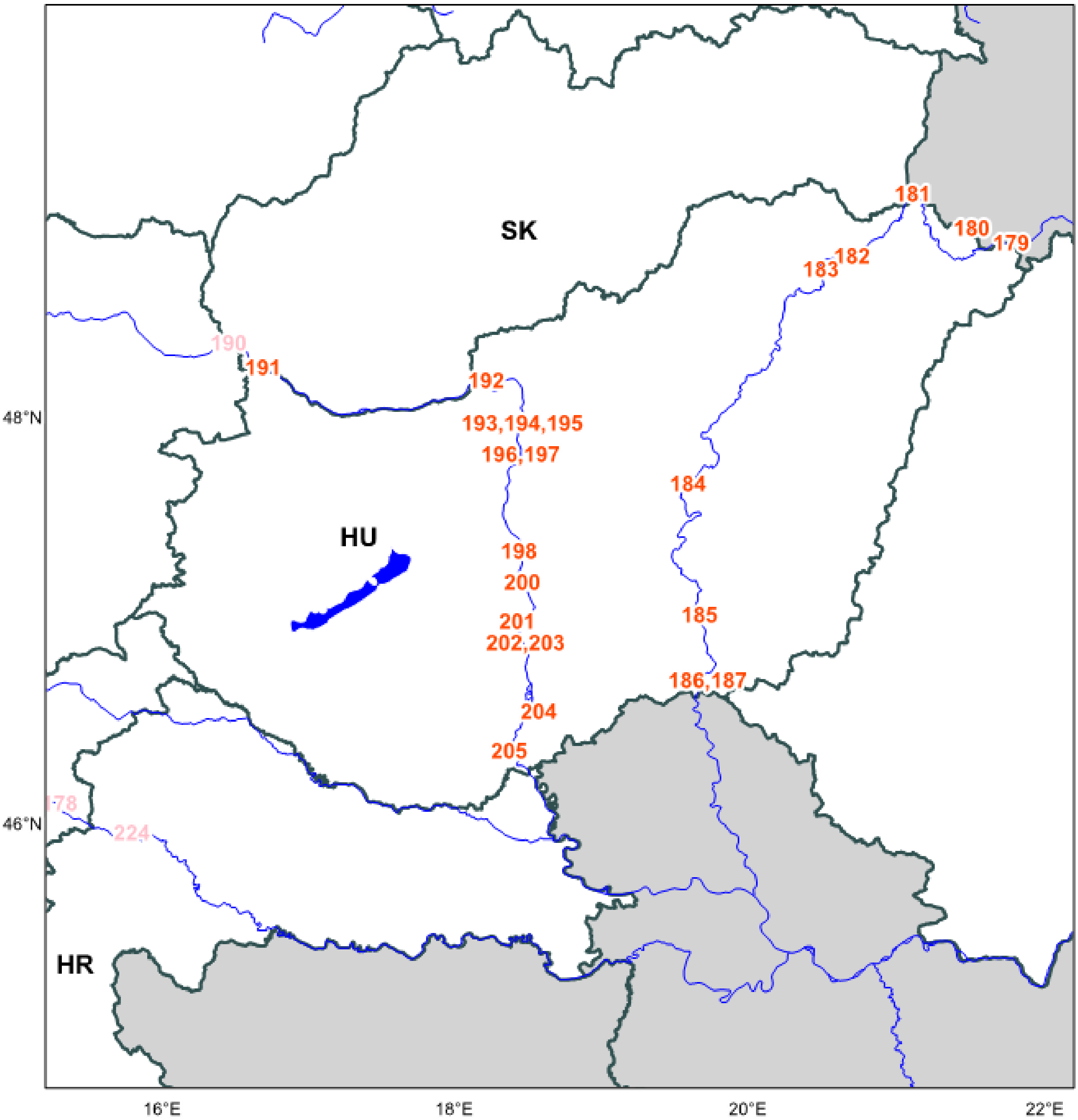
Sampling locations for residual-β and ^{137}Cs in surface water (Tables S1 – S72): Germany

DENSE



43 Luebeck Bay
58 Geesthacht
59 Wedel
60 Cuxhaven
61 Weil am Rhein
62 Breisach am Rhein
64 Worms
65 Koblenz
66 Trebur
69 Wincheringen
188 Vilshofen

Fig. S13
Sampling locations for residual-β and ^{137}Cs in surface water (Tables S1 – S72): Hungary



179 Tiszabecs
180 Gergelyiugornya
181 Zahony
182 Tiszabercel
183 Rakamaz
184 Szolnok
185 Mindszent
186 Tiszasziget I
187 Tiszasziget II
191 Rajka
192 Szob
193 Budapest - North I
194 Budapest - North II
195 Budapest - Danube
196 Budapest - Budafok
197 Nagyteteny
198 Dunaujvaros
199 Dunafoldvar II
200 Dunafoldvar I
201 Paks
202 Kalocsa
203 Gerjen
204 Baja
205 Mohacs

Fig. S14

Sampling locations for residual-β and ^{137}Cs in surface water (Tables S1 – S72): Italy

153 Casale Monferrato

159 Santa Teresa Gallura

160 Olbia

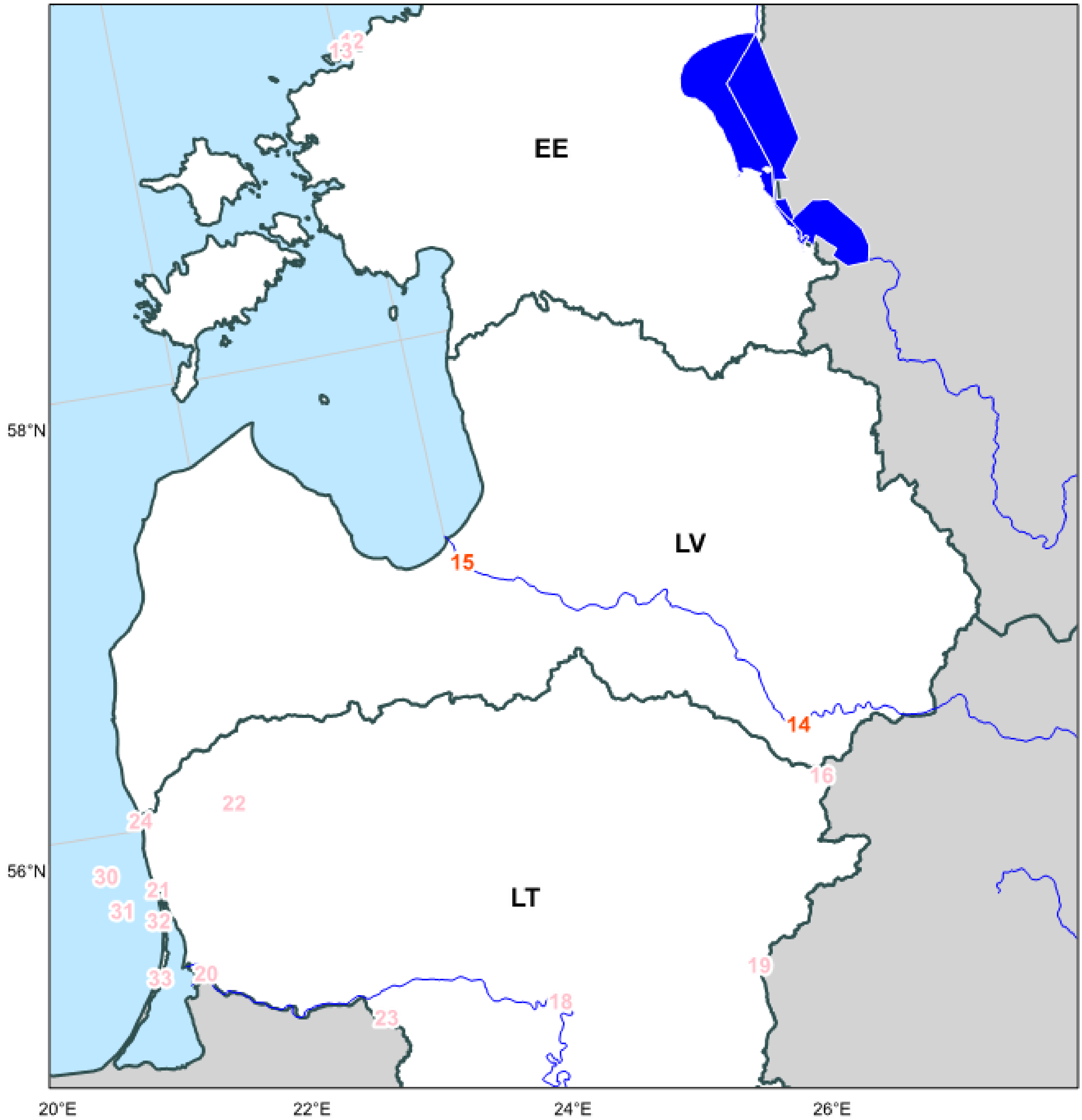
161 Maratea

162 Rotondella

DENSE

Fig. S15

Sampling locations for residual-β and ^{137}Cs in surface water (Tables S1 – S72): Latvia

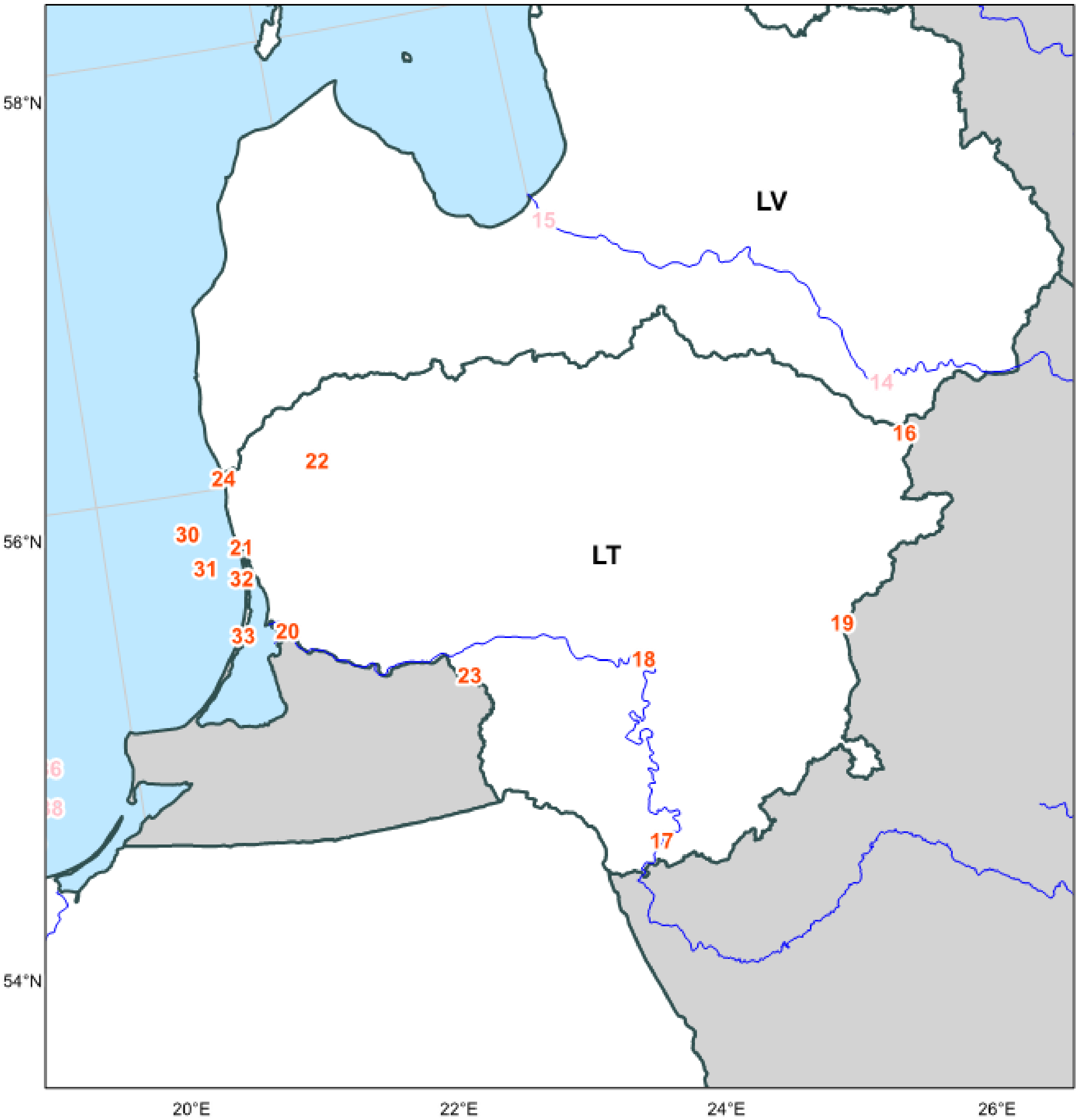


14 Daugavpils

15 Riga

Fig. S16

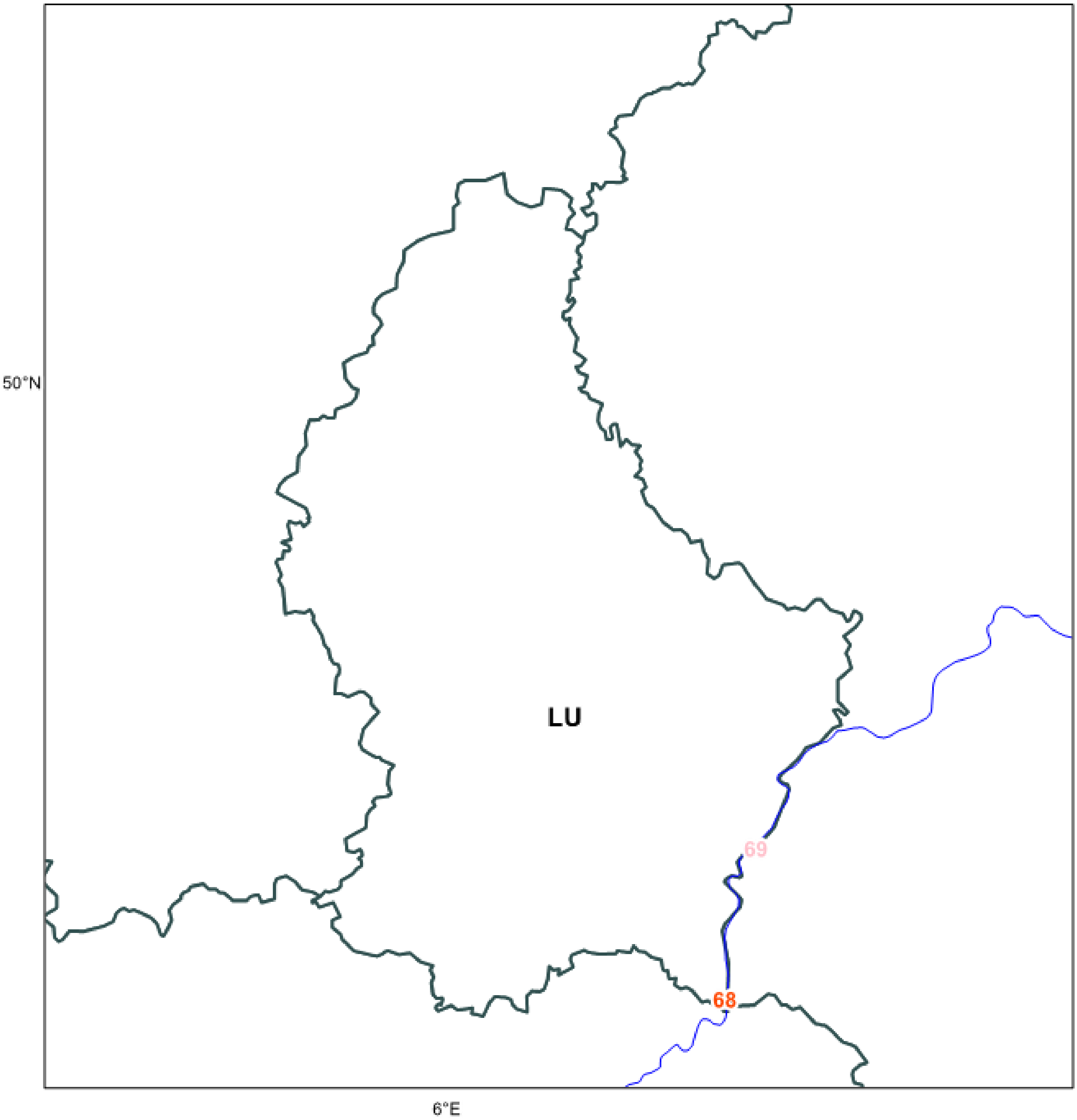
Sampling locations for residual-β and ^{137}Cs in surface water (Tables S1 – S72): Lithuania



16 Drūkšiai Lake
17 Neman above Druskininkai
18 Kauno Marios
19 Neris River Near Buivydžiai
20 Skirvytė River
21 Akmena-Danė River
22 Plateliai Lake
23 Šešupė River Transb (Russia)
24 Šventoji River Mouth

30 Baltic Sea LT64
31 Baltic Sea LT 20
32 Baltic Sea LT6
33 Curonian Lagoon LT10

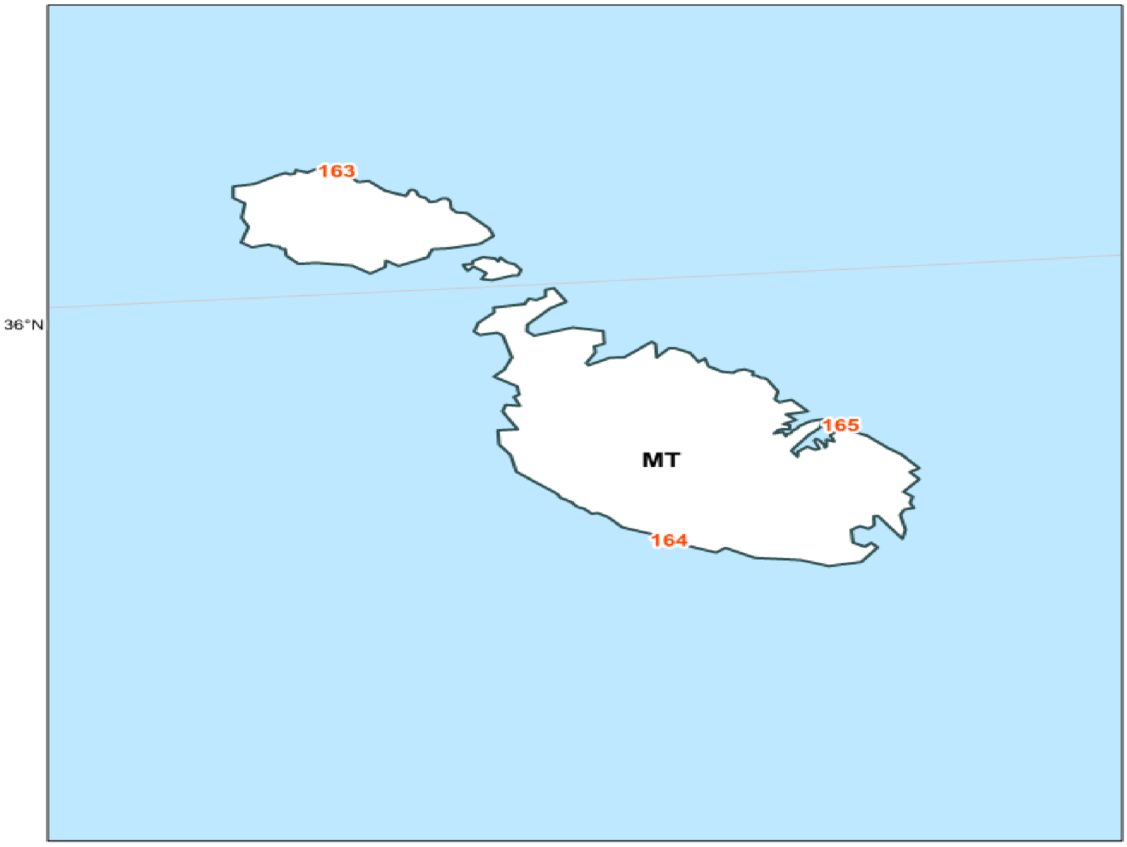
Fig. S17
Sampling locations for residual-β and ^{137}Cs in surface water (Tables S1 – S72): Luxembourg

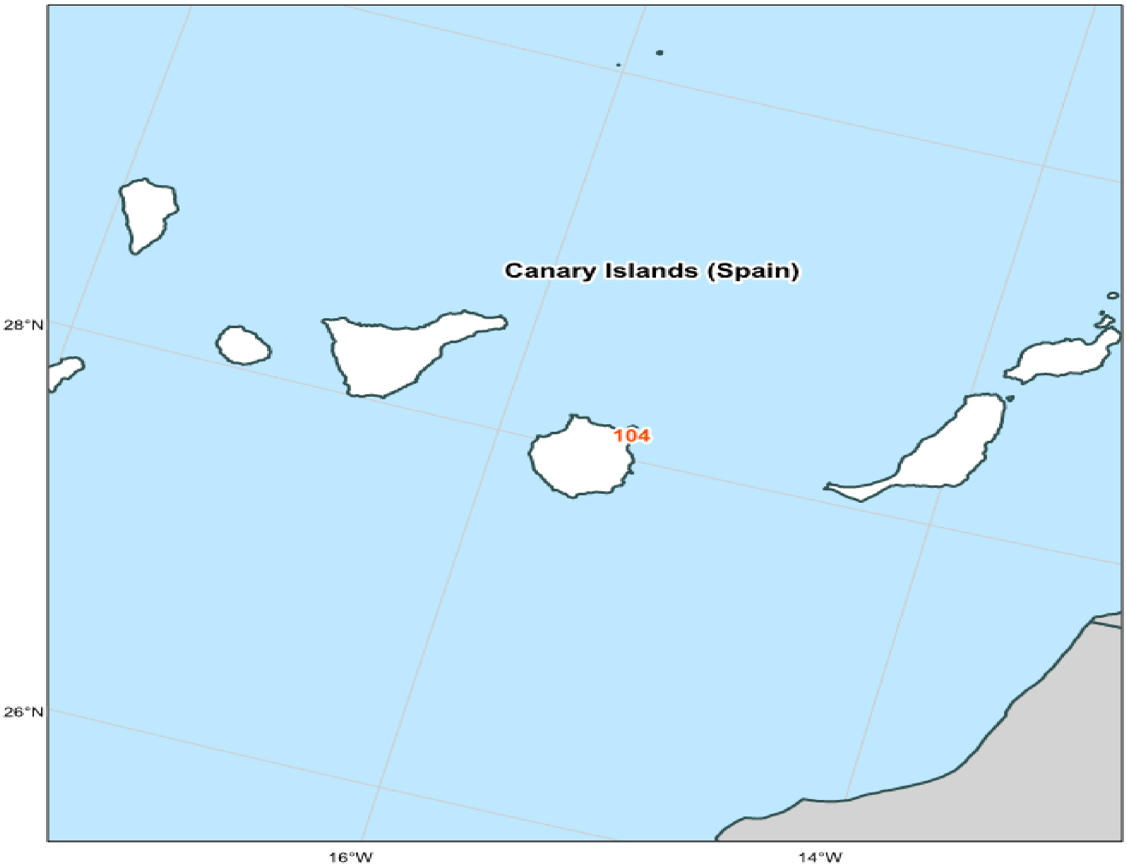


68 Schengen

Fig. S18

Sampling locations for residual-β and ^{137}Cs in surface water (Tables S1 – S72): Malta, Canary Is.





163: Xwejni

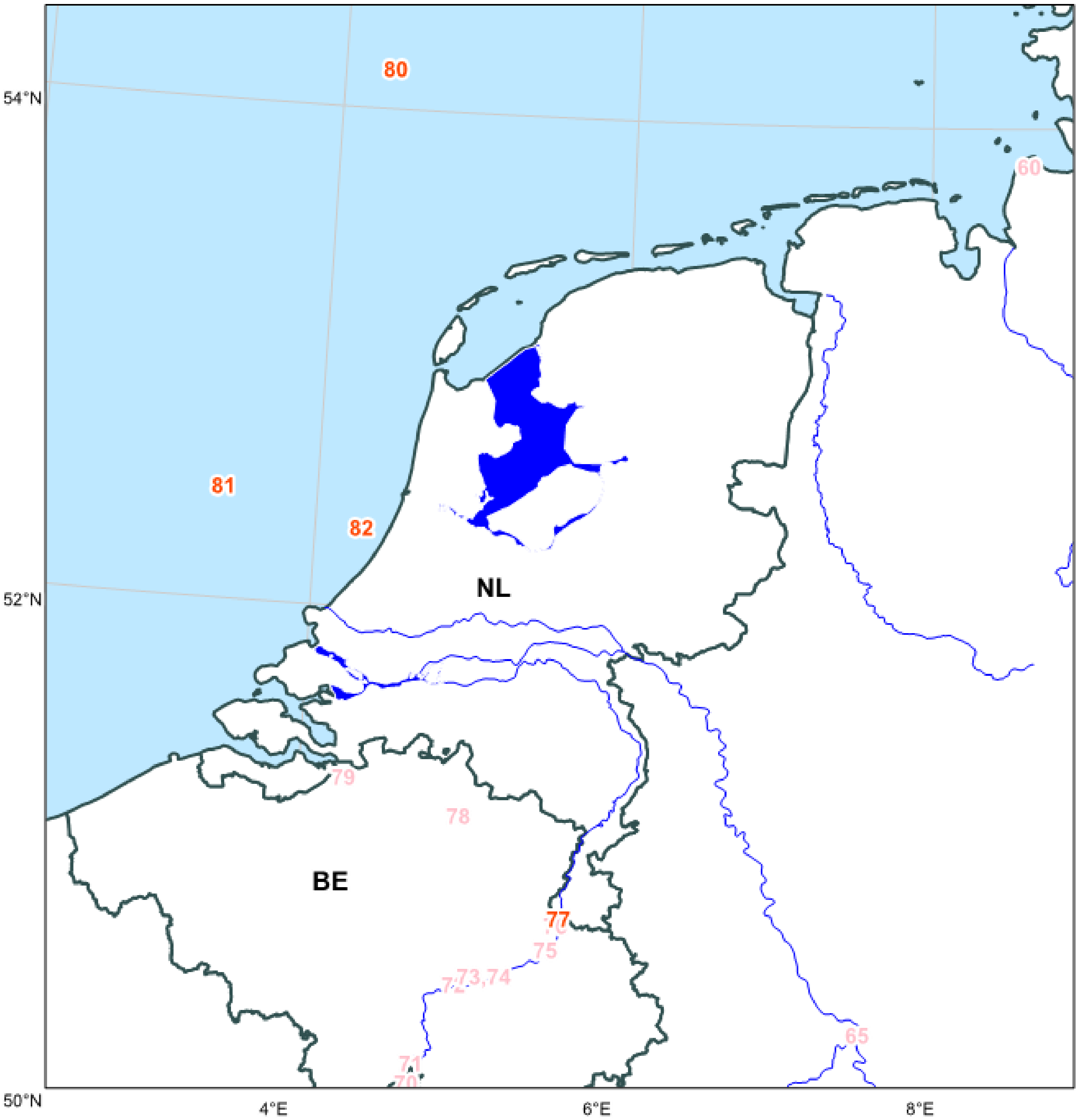
164: Lapsi

165: Wied Ghammieq

104: Puerto De Las Palmas

Fig. S19

Sampling locations for residual-β and ^{137}Cs in surface water (Tables S1 – S72): the Netherlands

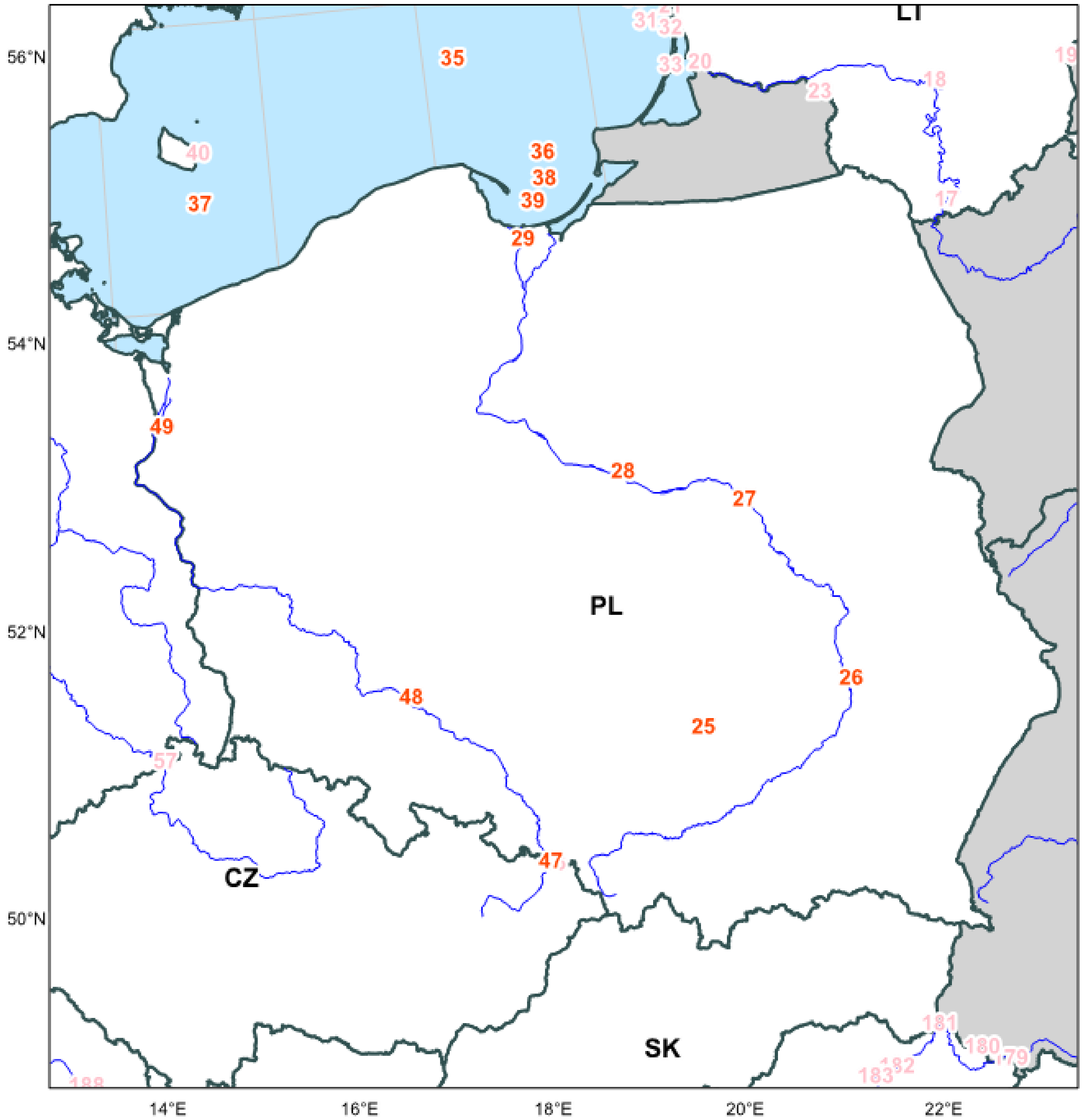


77 Eijsden
80 Terschelling, 100 km from coast
81 Noordwijk, 70 km from coast
82 Noordwijk, 10 km from coast

Fig. S20

Sampling locations for residual-β and ^{137}Cs in surface water (Tables S1 – S72): Poland

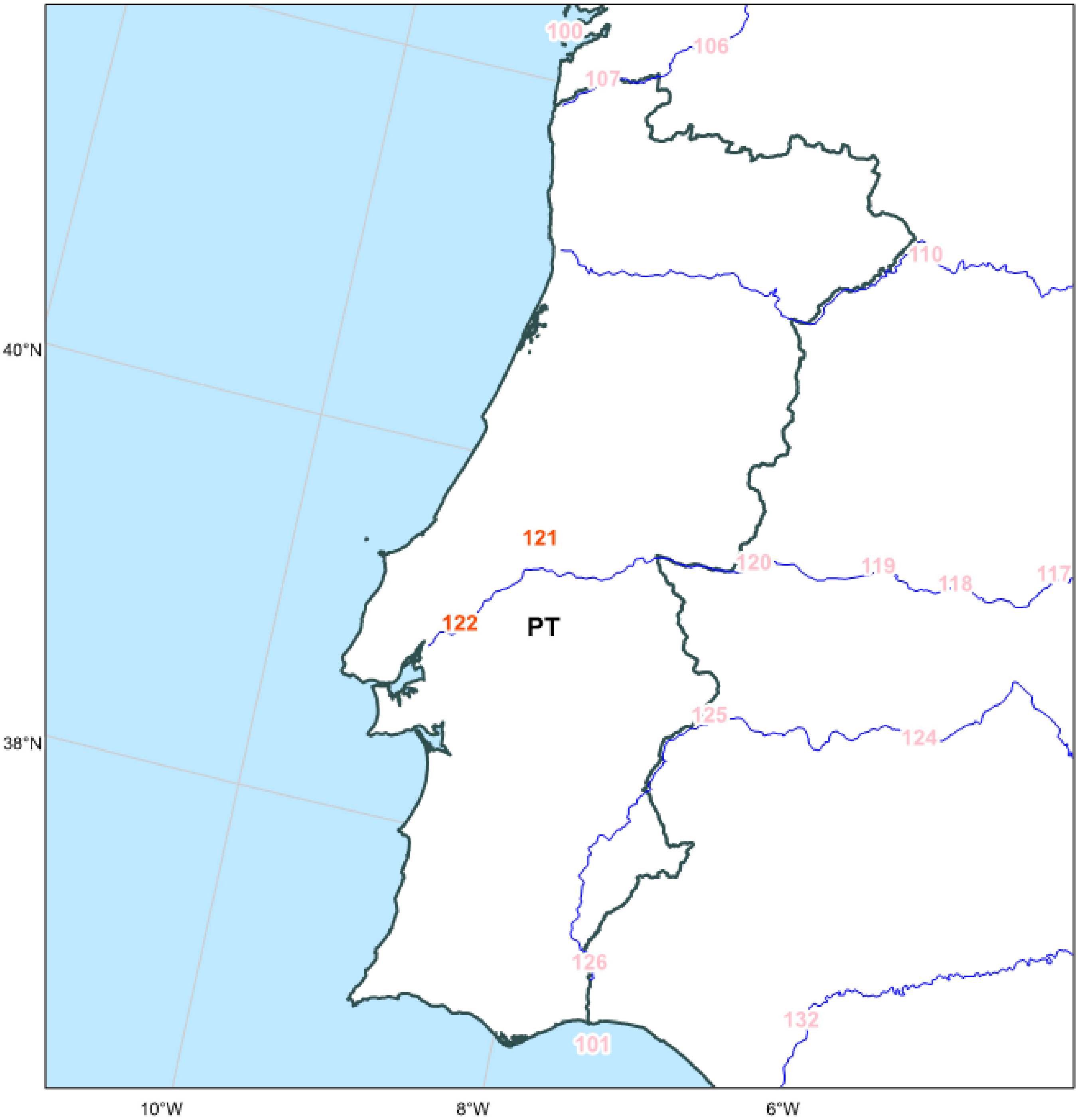
DENSE



25 Krakow Tyniec
26 Annopol
27 Warsaw
28 Plock
29 Kiezmark
35 Baltic Sea P-140
36 Baltic Sea P-1
37 Baltic Sea P-39
38 Baltic Sea P-116
39 Baltic Sea P-110
47 Chalupki
48 Wroclaw
49 Krajnik

DENSE

Fig. S21
Sampling locations for residual-β and ^{137}Cs in surface water (Tables S1 – S72): Portugal

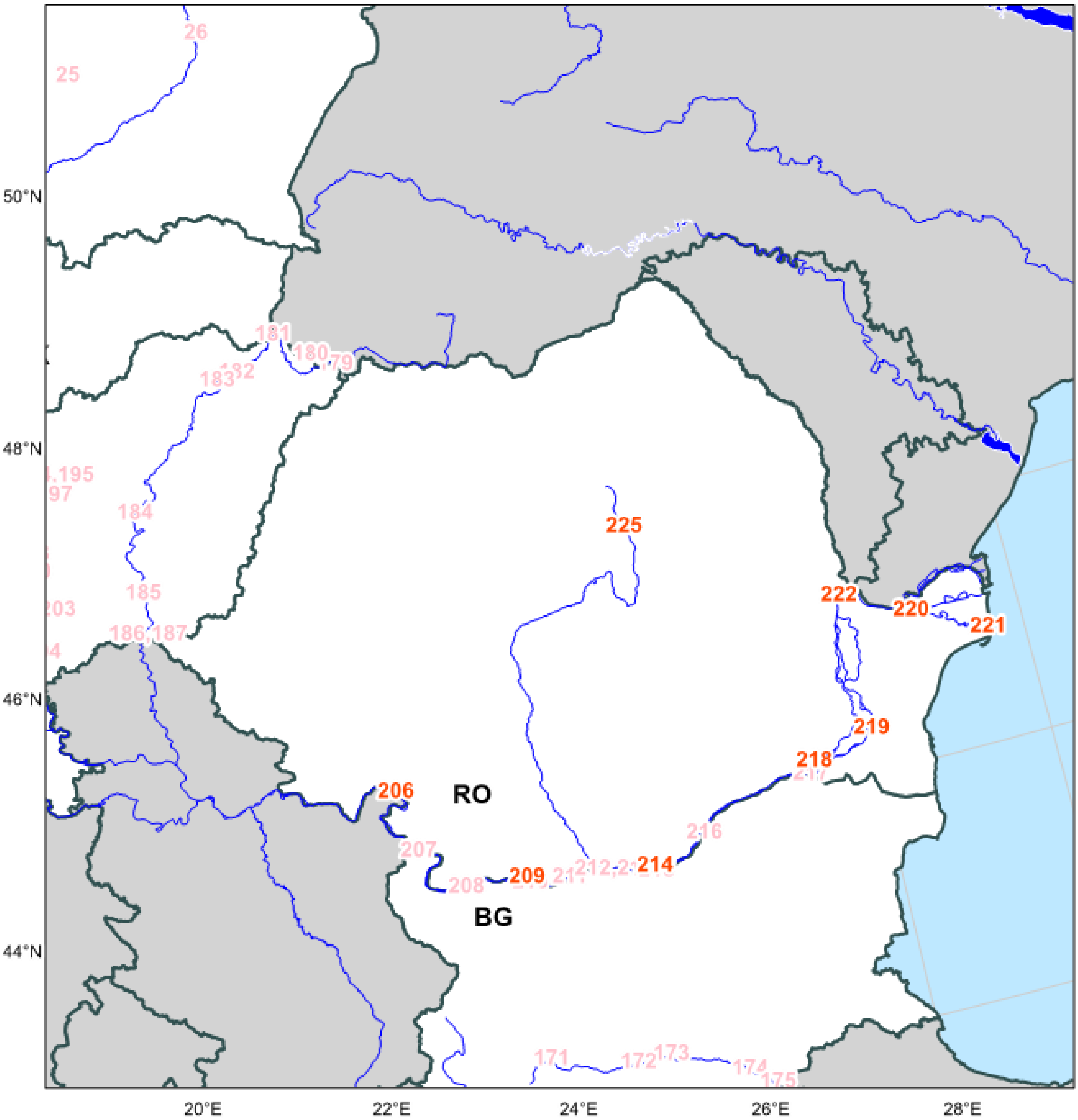


121 Vila Velha de Rodao
122 Valada Do Ribatejo

DENSE

Fig. S22

Sampling locations for residual-β and ^{137}Cs in surface water (Tables S1 – S72): Romania

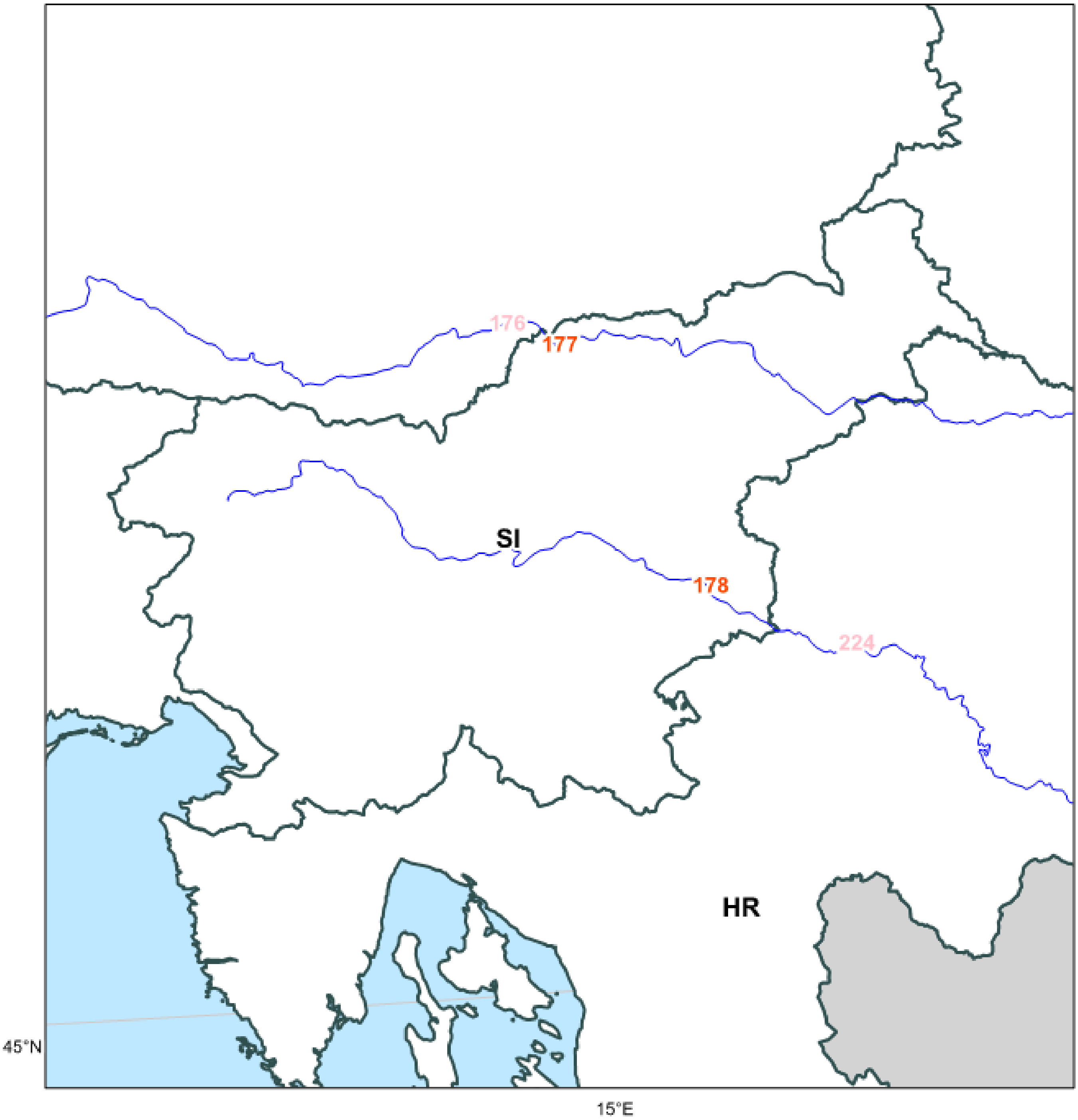


206 Drobeta Turnu Severin
209 Bechet
214 Zimnicea
218 Calarasi
219 Cernavoda
220 Tulcea
221 Sfantu Gheorge Tulcea
222 Galati
225 Miercurea Ciuc

DENSE

Fig. S23

Sampling locations for residual-β and ^{137}Cs in surface water (Tables S1 – S72): Slovenia

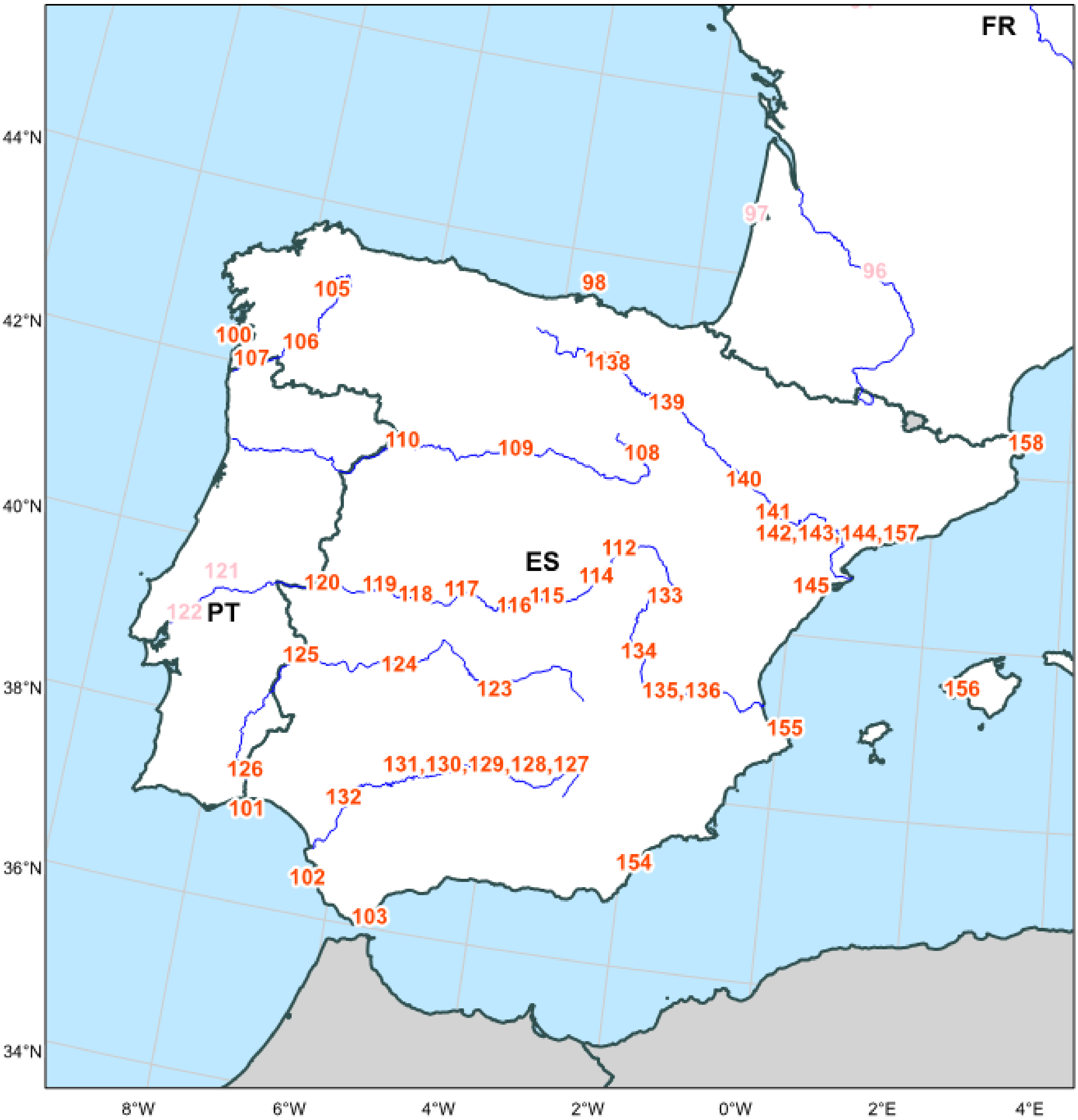


177 Dravograd

178 Krsko

Fig. S24

Sampling locations for residual-β and ^{137}Cs in surface water (Tables S1 – S72): Spain

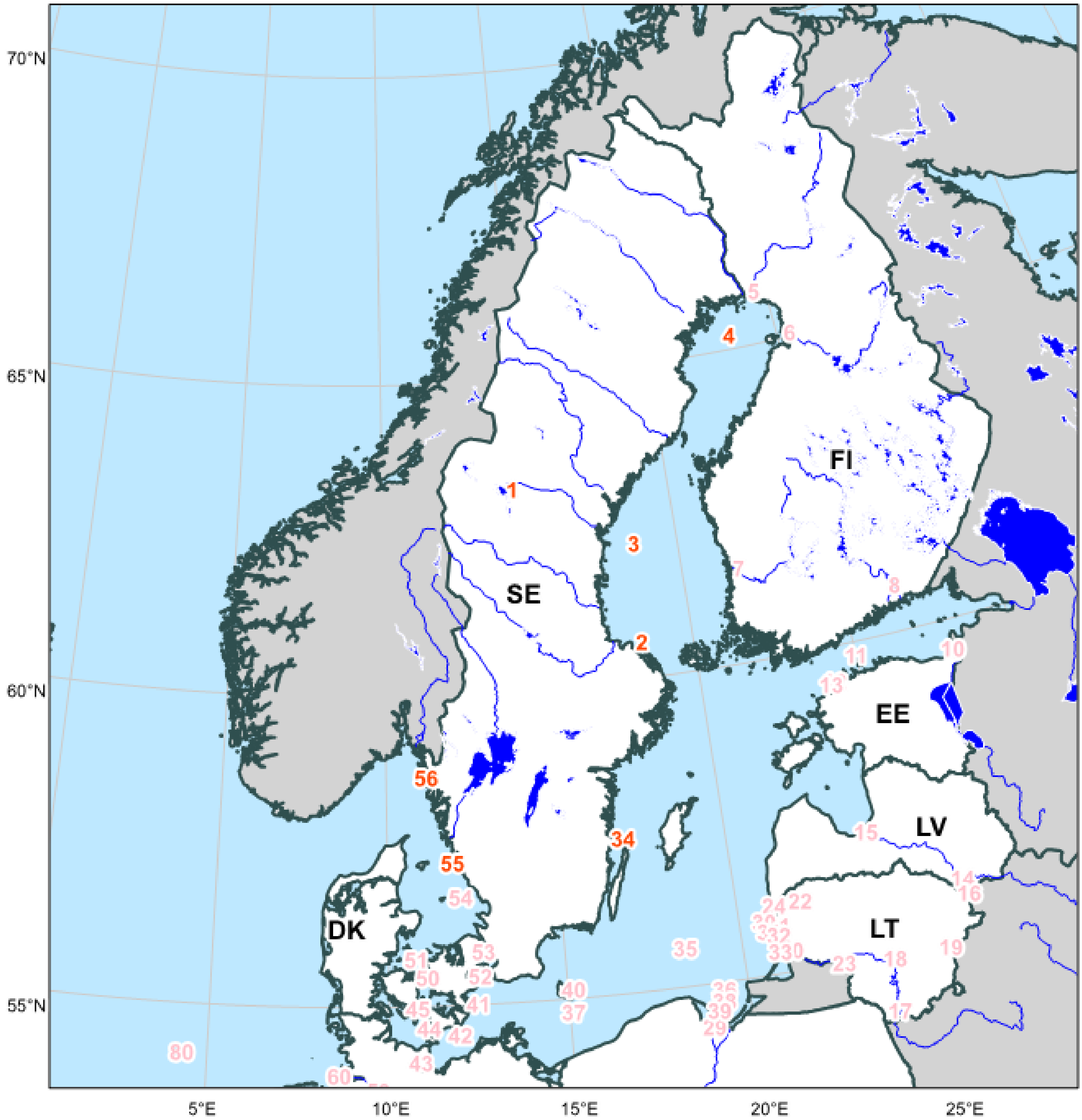


98 Cabo Ajo
100 Cabo Silleiro
101 Isla Cristina
102 Puerto de Cadiz
103 Estrecho de Gibraltar
105 Lugo
106 Orense
107 Caldelas De Tuy
108 Garray
109 Quintanilla
110 Villalcampo
111 Trillo Arriba
112 Trillo Abajo
113 Zorita Arriba
114 Zorita Abajo
115 Aranjuez
116 Toledo
117 Talavera
118 Valdecanas
119 Embalse de Torrejon
120 Embalse de Alcantara
123 Balbuena
124 Orellana
125 Puente Palmas
126 San Lucar
127 Mengibar
128 Andujar Arriba
129 Andujar Abajo
130 El Carpio
131 Posadas
132 Sevilla Rio
133 Venta De Juan Romero
134 Embalse De Alarcon
135 Alcala Del Jucar
136 Cofrentes Abajo
137 Garona Arriba
138 Garona Abajo
139 Mendavia
140 Zaragoza-Rio
141 Sastago
142 Ribarroja
143 Asco Abajo
144 Garcia
145 Cherta
154 Garrucha
155 Cabo de San Antonio
156 Puerto de Palma
157 Puerto de Tarragona
158 Cabo de Creus

DENSE

Fig. S25

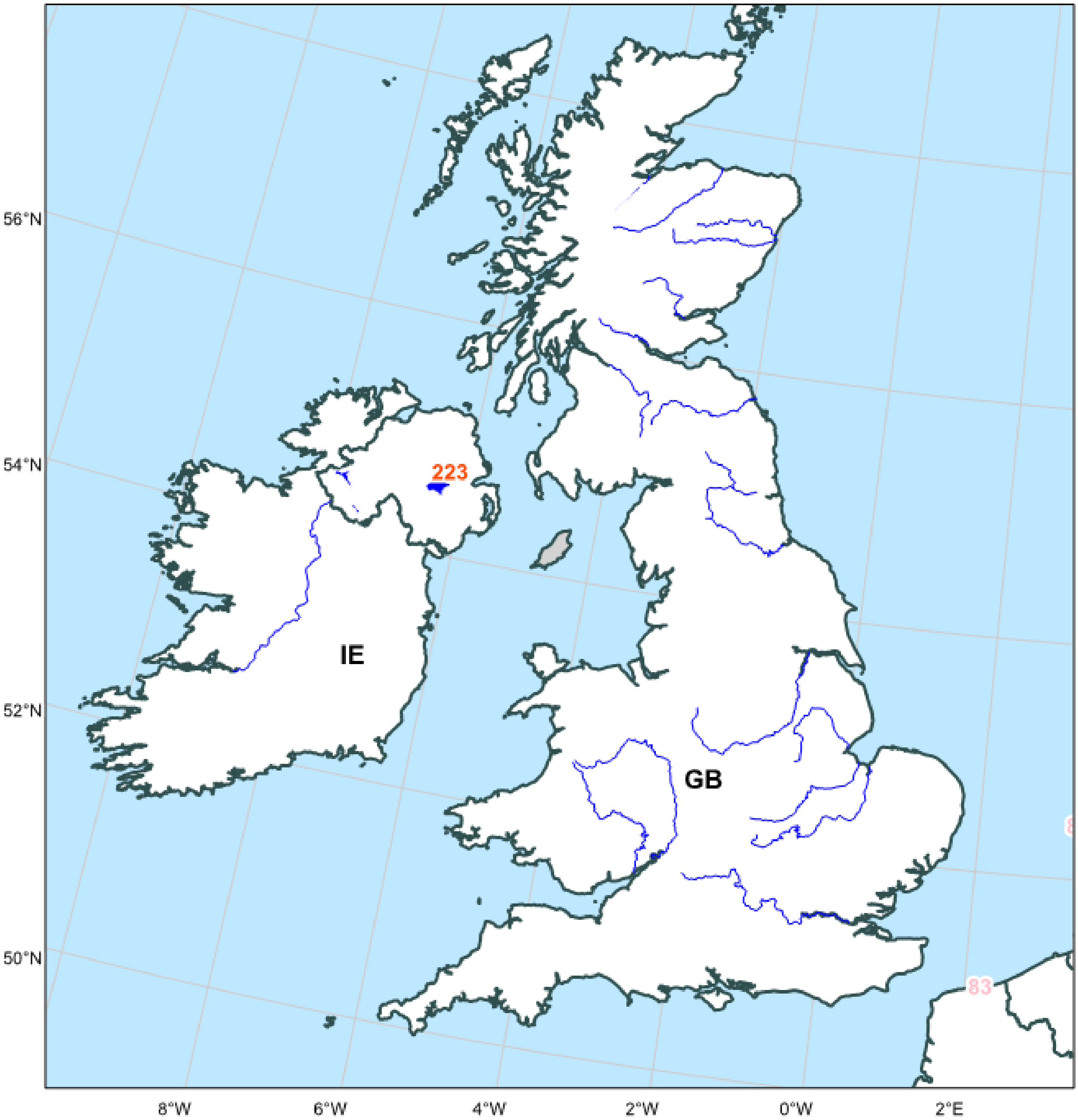
Sampling locations for residual-β and ^{137}Cs in surface water (Tables S1 – S72): Sweden



1 Oestersund-Storsjoen
2 Forsmark (F135)
3 Bottenhavet (C14)
4 Bottenviken (A5)
34 Oskarshamn (S36)
55 Ringhals (35)
56 Fjaellbacka

Fig. S26
Sampling locations for residual-β and ^{137}Cs in surface water (Tables S1 – S72): United Kingdom

DENSE



223 Lough Neagh

DENSE

Table S1: Time averages

YEAR	:	2015
SAMPLE TYPE	:	surface water (Bq l $^{-1}$)
NUCLIDE CATEGORY	:	residual-β

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
Indalsaelven	1	Oestersund-Storsjoen	SE								
Gulf Of Bothnia	2	Forsmark (F135)	SE								
	3	Bottenhavet (C14)	SE								
	4	Bottenviken (A5)	SE								
Kemijoki	5	Kemi	FI								
Oulujoki	6	Oulu	FI								
Kokemaenjoki	7	Pori	FI								
Kymijoki	8	Kotka	FI								
Narva	9	Narva	EE								
Gulf Of Finland	10	Gulf Of Finland, N8	EE								
	11	Gulf Of Finland, EE17	EE								
	12	Gulf Of Finland, PE	EE								
	13	Gulf Of Finland, PW	EE								
Daugava	14	Daugavpils	LV								
	15	Riga	LV								
	16	Drūkšiai Lake	LT								
Neman	17	Neman above Druskininkai	LT								
	18	Kauno Marios	LT								
	19	Neris River Near Buivydžiai	LT								
	20	Skirvytė River	LT								
	21	Akmena-Danė River	LT								
	22	Plateliai Lake	LT								
	23	Šešupė River Transb (Russia)	LT								
	24	Šventoji River Mouth	LT								
Vistula	25	Krakow Tyniec	PL								
	26	Annopol	PL								
	27	Warsaw	PL								
	28	Plock	PL								
	29	Kiezmark	PL								
Baltic Sea	30	Baltic Sea LT64	LT								
	31	Baltic Sea LT 20	LT								
	32	Baltic Sea LT6	LT								
	33	Curonian Lagoon LT10	LT								
	34	Oskarshamn (S36)	SE								
	35	Baltic Sea P-140	PL								
	36	Baltic Sea P-1	PL								
	37	Baltic Sea P-39	PL								
	38	Baltic Sea P-116	PL								
	39	Baltic Sea P-110	PL								
	40	Svenskehavn	DK								

RL: reporting level for residual-β In surface water, i.e. 6.0 E-01 BQ/L (see Appendix B)

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

Table S2: Time averages

DENSE

YEAR : 2015

SAMPLE TYPE : surface water (Bq l^{-1})

NUCLIDE CATEGORY : residual-β

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
Baltic Sea	41	Moen	DK								
	42	Gedser Odde	DK								
	43	Luebeck Bay	DE								
	44	Femern Baelt	DK								
	45	Langeland Baelt	DK								
Oder	46	Bohumin	CZ	4	< RL	< RL	< RL	< RL	< RL	< RL	3
	47	Chalupki	PL								
	48	Wroclaw	PL								
	49	Krajnik	PL								
The Great Belt	50	Halskov Rev	DK								
	51	Asnaes Rev	DK								
The Sound	52	The Sound S	DK								
	53	The Sound N(A)	DK								
Kattegat	54	Kattegat-413	DK								
	55	Ringhals (35)	SE								
Skagerrak	56	Fjaellbacka	SE								
Elbe	57	Hrensko	CZ	4	< RL	< RL	< RL	< RL	< RL	< RL	2
	58	Geesthacht	DE								
	59	Wedel	DE								
	60	Cuxhaven	DE								
Rhine	61	Weil am Rhein	DE								
	62	Breisach am Rhein	DE								
	63	Lauterbourg	FR								
	64	Worms	DE								
	65	Koblenz	DE								
	66	Trebur	DE								
Moselle	67	Cattenom (Aval)	FR								
	68	Schengen	LU								
	69	Wincheringen	DE								
Meuse	70	Chooz (Givet)	FR								
	71	Heer-Agimont	BE								
	72	Andenne	BE								
	73	Huy	BE								
	74	Ampsin	BE								
	75	Monsin	BE								
	76	Lixhe	BE								
	77	Eijsden	NL	13	< RL	< RL	< RL	< RL	< RL	< RL	3
Molse Nete	78	Geel	BE								
Scheldt	79	Doel	BE	17	< RL	< RL	< RL	< RL	< RL	7.8E-01	2

RL: reporting level for residual-β In surface water, i.e. 6.0 E-01 BQ/L (see Appendix B)

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

DENSE

Table S3: Time averages

YEAR : 2015

SAMPLE TYPE : surface water (Bq l $^{-1}$)

NUCLIDE CATEGORY : residual-β

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
North Sea	80	Terschelling, 100 km from coast	NL								
	81	Noordwijk, 70 km from coast	NL	4	< RL	< RL	< RL	< RL	< RL	< RL	5
	82	Noordwijk, 10 km from coast	NL								
	83	Gravelines (EDF)	FR								
Seine	84	Nogent sur Seine	FR								
	85	Le Vesinet	FR								
Channel	86	Paluel	FR								
	87	Penly	FR								
	88	Jobourg	FR								
	89	La Hague-Jardeheu	FR								
	90	Flamanville	FR								
Loire	91	Belleville sur Loire	FR								
	92	Dampierre en Burly	FR								
	93	Saint Laurent des Eaux	FR								
	94	Chinon (Candes-Aval)	FR								
	95	Angers (EDF)	FR								
Garonne	96	Golfech - St. Romain le Noble	FR								
Atlantic Ocean	97	Arcachon	FR								
	98	Cabo Ajo	ES						Δ		
	99	Brest	FR								
	100	Cabo Silleiro	ES						Δ		
	101	Isla Cristina	ES						Δ		
	102	Puerto de Cadiz	ES						Δ		
	103	Estrecho de Gibraltar	ES						Δ		
	104	Puerto De Las Palmas	ES						Δ		
Mino	105	Lugo	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	1
	106	Orense	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	4
	107	Caldelas De Tuy	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	7
Duero	108	Garray	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	7
	109	Quintanilla	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	4
	110	Villalcampo	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	7
Tagus	111	Trillo Arriba	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	3
	112	Trillo Abajo	ES	13	< RL	< RL	< RL	< RL	< RL	< RL	10
	113	Zorita Arriba	ES	11	< RL	< RL	< RL	< RL	< RL	< RL	4
	114	Zorita Abajo	ES	3		< RL	< RL	< RL	< RL	< RL	12
	115	Aranjuez	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	3
	116	Toledo	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	6
	117	Talavera	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	9

RL: reporting level for residual-β In surface water, i.e. 6.0 E-01 BQ/L (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

Table S4: **Time averages**

DENSE

YEAR	:	**2015**
SAMPLE TYPE	:	**surface water (Bq l $^{-1}$)**
NUCLIDE CATEGORY	:	**residual-β**

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
Tagus	118	Valdecanas	ES	12	< RL	< RL	< RL	< RL	< RL	< RL	10
	119	Embalse de Torrejon	ES	16	< RL	< RL	< RL	< RL	< RL	< RL	9
	120	Embalse de Alcantara	ES	12	< RL	< RL	< RL	< RL	< RL	< RL	9
	121	Vila Velha de Rodao	PT								
	122	Valada Do Ribatejo	PT								
Guadiana	123	Balbuena	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	9
	124	Orellana	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	6
	125	Puente Palmas	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	11
	126	San Lucar	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	9
Guadalquivir	127	Mengibar	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	10
	128	Andujar Arriba	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	7
	129	Andujar Abajo	ES	12	< RL	< RL	< RL	< RL	< RL	< RL	11
	130	El Carpio	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	4
	131	Posadas	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	10
	132	Sevilla Rio	ES								
Jucar	133	Venta De Juan Romero	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	8
	134	Embalse De Alarcon	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	8
	135	Alcala Del Jucar	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	11
	136	Cofrentes Abajo	ES	12	< RL	< RL	< RL	< RL	< RL	< RL	1
Ebro	137	Garona Arriba	ES	12	< RL	< RL	< RL	< RL	< RL	< RL	2
	138	Garona Abajo	ES	24	< RL	< RL	< RL	< RL	< RL	< RL	1
	139	Mendavia	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	10
	140	Zaragoza-Rio	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	7
	141	Sastago	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	7
	142	Ribarroja	ES	12	< RL	< RL	< RL	< RL	< RL	< RL	12
	143	Asco Abajo	ES	27	< RL	< RL	< RL	< RL	< RL	< RL	11
	144	Garcia	ES								
	145	Cherta	ES								
Rhone	146	Creys-Malville (EDF)	FR								
	147	Le Bugey (Loyettes)	FR								
	148	Saint Alban	FR								
	149	Cruas (Aval)	FR								
	150	Tricastin	FR								
	151	Roquemaure (Marcoule)	FR								
	152	Vallabregues	FR								
Po	153	Casale Monferrato	IT								

RL: reporting level for residual-β In surface water, i.e. 6.0 E-01 BQ/L (see Appendix B)

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

DENSE

Table S5: Time averages

YEAR	:	2015
SAMPLE TYPE	:	surface water (Bq l $^{-1}$)
NUCLIDE CATEGORY	:	residual-β

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
Mediterranean Sea	154	Garrucha	ES						Δ		
	155	Cabo de San Antonio	ES						Δ		
	156	Puerto de Palma	ES						Δ		
	157	Puerto de Tarragona	ES						Δ		
	158	Cabo de Creus	ES						Δ		
	159	Santa Teresa Gallura	IT								
	160	Olbia	IT								
	161	Maratea	IT								
	162	Rotondella	IT								
	163	Xwejni	MT								
	164	Lapsi	MT								
	165	Wied Ghammieq	MT								
	166	Polis	CY								
	167	Limassol	CY								
	168	Vasilikos	CY								
	169	Larnaca	CY								
	170	Paralimni	CY								
Maritsa	171	Kostenec	BG								
	172	Plovdiv	BG								
	173	Mirovo	BG								
	174	Harmanli	BG								
	175	Svilengrad	BG								
Drau	176	Schwabegg	AT	26	< RL	< RL	< RL	< RL	< RL	< RL	3
	177	Dravograd	SI								
Sava	178	Krsko	SI								
Tisza	179	Tiszabecs	HU								
	180	Gergelyiugornya	HU								
	181	Zahony	HU								
	182	Tiszabercel	HU								
	183	Rakamaz	HU								
	184	Szolnok	HU								
	185	Mindszent	HU								
	186	Tiszasziget I	HU								
	187	Tiszasziget II	HU								

RL: reporting level for residual-β In surface water, i.e. 6.0 E-01 BQ/L (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

Table S6: Time averages

YEAR : 2015

SAMPLE TYPE : surface water (Bq l $^{-1}$)

NUCLIDE CATEGORY : residual-β

DENSE

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
Danube	188	Vilshofen	DE								
	189	Jochenstein	AT	17	< RL	< RL	< RL	< RL	< RL	< RL	5
	190	Wolfsthal	AT	12	< RL	< RL	< RL	< RL	< RL	< RL	8
	191	Rajka	HU								
	192	Szob	HU								
	193	Budapest - North I	HU								
	194	Budapest - North II	HU								
	195	Budapest - Danube	HU								
	196	Budapest - Budafok	HU								
	197	Nagyteteny	HU								
	198	Dunaujvaros	HU								
	199	Dunafoldvar II	HU								
	200	Dunafoldvar I	HU								
	201	Paks	HU								
	202	Kalocsa	HU								
	203	Gerjen	HU								
	204	Baja	HU								
	205	Mohacs	HU								
	206	Drobeta Turnu Severin	RO	360	< RL	< RL	< RL	< RL	< RL	< RL	2
	207	Novo Selo	BG								
	208	Ruse	BG								
	209	Bechet	RO	360	< RL	< RL	< RL	< RL	< RL	< RL	11
	210	Oriahovo	BG								
	211	Baykal	BG								
	212	Nikopol	BG								
	213	Belene	BG								
	214	Zimnicea	RO	359	< RL	< RL	< RL	< RL	< RL	< RL	11
	215	Svishtov	BG								
	216	Ruse	BG								
	217	Silistra	BG								
	218	Calarasi	RO	360	< RL	< RL	< RL	< RL	< RL	< RL	1
	219	Cernavoda*	RO	355	< RL	< RL	< RL	< RL	< RL	< RL	2
	220	Tulcea	RO	360	< RL	< RL	< RL	< RL	< RL	< RL	1
	221	Sfantu Gheorge Tulcea	RO	360	< RL	< RL	< RL	< RL	< RL	< RL	2
	222	Galati	RO	360	< RL	< RL	< RL	< RL	< RL	< RL	1
Lough Neagh	223	Lough Neagh	UK								
Sava	224	Zagreb	HR								
Olt	225	Miercurea Ciuc	RO	351	< RL	< RL	< RL	< RL	< RL	< RL	10

RL: reporting level for residual-β In surface water, i.e. 6.0 E-01 BQ/L (see Appendix B)
*: sampling location downstream of a nuclear power plant

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

DENSE

Table S7: Time averages

YEAR : 2016
SAMPLE TYPE : surface water (Bq l $^{-1}$)
NUCLIDE CATEGORY : residual-β

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
Indalsaelven	1	Oestersund-Storsjoen	SE								
Gulf Of Bothnia	2	Forsmark (F135)	SE								
	3	Bottenhavet (C14)	SE								
	4	Bottenviken (A5)	SE								
Kemijoki	5	Kemi	FI								
Oulujoki	6	Oulu	FI								
Kokemaenjoki	7	Pori	FI								
Kymijoki	8	Kotka	FI								
Narva	9	Narva	EE								
Gulf Of Finland	10	Gulf Of Finland, N8	EE								
	11	Gulf Of Finland, EE17	EE								
	12	Gulf Of Finland, PE	EE								
	13	Gulf Of Finland, PW	EE								
Daugava	14	Daugavpils	LV								
	15	Riga	LV								
	16	Drūkšiai Lake	LT								
Neman	17	Neman above Druskininkai	LT								
	18	Kauno Marios	LT								
	19	Neris River Near Buivydžiai	LT								
	20	Skirvytė River	LT								
	21	Akmena-Danė River	LT								
	22	Plateliai Lake	LT								
	23	Šešupė River Transb (Russia)	LT								
	24	Šventoji River Mouth	LT								
Vistula	25	Krakow Tyniec	PL								
	26	Annopol	PL								
	27	Warsaw	PL								
	28	Plock	PL								
	29	Kiezmark	PL								
Baltic Sea	30	Baltic Sea LT64	LT								
	31	Baltic Sea LT 20	LT								
	32	Baltic Sea LT6	LT								
	33	Curonian Lagoon LT10	LT								
	34	Oskarshamn (S36)	SE								
	35	Baltic Sea P-140	PL								
	36	Baltic Sea P-1	PL								
	37	Baltic Sea P-39	PL								
	38	Baltic Sea P-116	PL								
	39	Baltic Sea P-110	PL								
	40	Svenskehavn	DK								

RL: reporting level for residual-β In surface water, i.e. 6.0 E-01 BQ/L (see Appendix B)

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

Table S8: Time averages

YEAR : 2016
SAMPLE TYPE : surface water (Bq l $^{-1}$)
NUCLIDE CATEGORY : residual-β

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
Baltic Sea	41	Moen	DK								
	42	Gedser Odde	DK								
	43	Luebeck Bay	DE								
	44	Femern Baelt	DK								
	45	Langeland Baelt	DK								
Oder	46	Bohumin	CZ	4	< RL	< RL	< RL	< RL	< RL	< RL	10
	47	Chalupki	PL								
	48	Wroclaw	PL								
	49	Krajnik	PL								
The Great Belt	50	Halskov Rev	DK								
	51	Asnaes Rev	DK								
The Sound	52	The Sound S	DK								
	53	The Sound N(A)	DK								
Kattegat	54	Kattegat-413	DK								
	55	Ringhals (35)	SE								
Skagerrak	56	Fjaellbacka	SE								
Elbe	57	Hrensko	CZ	4	< RL	< RL	< RL		< RL	< RL	4
	58	Geesthacht	DE								
	59	Wedel	DE								
	60	Cuxhaven	DE								
Rhine	61	Weil am Rhein	DE								
	62	Breisach am Rhein	DE								
	63	Lauterbourg	FR								
	64	Worms	DE								
	65	Koblenz	DE								
	66	Trebur	DE								
Moselle	67	Cattenom (Aval)	FR								
	68	Schengen	LU								
	69	Wincheringen	DE								
Meuse	70	Chooz (Givet)	FR								
	71	Heer-Agimont	BE								
	72	Andenne	BE								
	73	Huy	BE								
	74	Ampsin	BE								
	75	Monsin	BE								
	76	Lixhe	BE								
	77	Eijsden	NL	13	< RL	< RL	< RL	< RL	< RL	< RL	2
Molse Nete	78	Geel	BE								
Scheldt	79	Doel	BE								

RL: reporting level for residual-β In surface water, i.e. 6.0 E-01 BQ/L (see Appendix B)

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

Table S9: Time averages

YEAR	:	**2016**
SAMPLE TYPE	:	**surface water (Bq l $^{-1}$)**
NUCLIDE CATEGORY	:	**residual-β**

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
North Sea	80	Terschelling, 100 km from coast	NL								
	81	Noordwijk, 70 km from coast	NL	4	< RL	< RL	< RL	< RL	< RL	< RL	5
	82	Noordwijk, 10 km from coast	NL								
	83	Gravelines (EDF)	FR								
Seine	84	Nogent sur Seine	FR								
	85	Le Vesinet	FR								
Channel	86	Paluel	FR								
	87	Penly	FR								
	88	Jobourg	FR								
	89	La Hague-Jardeheu	FR								
	90	Flamanville	FR								
Loire	91	Belleville sur Loire	FR								
	92	Dampierre en Burly	FR								
	93	Saint Laurent des Eaux	FR								
	94	Chinon (Candes-Aval)	FR								
	95	Angers (EDF)	FR								
Garonne	96	Golfech - St. Romain le Noble	FR								
Atlantic Ocean	97	Arcachon	FR								
	98	Cabo Ajo	ES						Δ		
	99	Brest	FR								
	100	Cabo Silleiro	ES						Δ		
	101	Isla Cristina	ES						Δ		
	102	Puerto de Cadiz	ES						Δ		
	103	Estrecho de Gibraltar	ES						Δ		
	104	Puerto De Las Palmas	ES						Δ		
Mino	105	Lugo	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	4
	106	Orense	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	5
	107	Caldelas De Tuy	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	7
Duero	108	Garray	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	2
	109	Quintanilla	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	10
	110	Villalcampo	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	2
Tagus	111	Trillo Arriba	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	12
	112	Trillo Abajo	ES	13	< RL	< RL	< RL	< RL	< RL	< RL	8
	113	Zorita Arriba	ES	12	< RL	< RL	< RL	< RL	< RL	< RL	6
	114	Zorita Abajo	ES	3	< RL	< RL	< RL		< RL	< RL	9
	115	Aranjuez	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	3
	116	Toledo	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	12
	117	Talavera	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	6

RL: reporting level for residual-β In surface water, i.e. 6.0 E-01 BQ/L (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

Table S10: Time averages

YEAR : 2016
SAMPLE TYPE : surface water (Bq l $^{-1}$)
NUCLIDE CATEGORY : residual-β

DENSE

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
Tagus	118	Valdecanas	ES	12	< RL	< RL	< RL	< RL	< RL	< RL	1
	119	Embalse de Torrejon	ES	16	< RL	< RL	< RL	< RL	< RL	< RL	8
	120	Embalse de Alcantara	ES	12	< RL	< RL	< RL	< RL	< RL	< RL	2
	121	Vila Velha de Rodao	PT								
	122	Valada Do Ribatejo	PT								
Guadiana	123	Balbuena	ES	3	< RL	< RL	< RL		< RL	< RL	9
	124	Orellana	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	3
	125	Puente Palmas	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	12
	126	San Lucar	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	3
Guadalquivir	127	Mengibar	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	4
	128	Andujar Arriba	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	7
	129	Andujar Abajo	ES	12	< RL	< RL	< RL	< RL	< RL	< RL	10
	130	El Carpio	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	7
	131	Posadas	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	1
	132	Sevilla Rio	ES								
Jucar	133	Venta De Juan Romero	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	11
	134	Embalse De Alarcon	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	8
	135	Alcala Del Jucar	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	8
	136	Cofrentes Abajo	ES	12	< RL	< RL	< RL	< RL	< RL	< RL	7
Ebro	137	Garona Arriba	ES	14	< RL	< RL	< RL	< RL	< RL	< RL	5
	138	Garona Abajo	ES	27	< RL	< RL	< RL	< RL	< RL	< RL	12
	139	Mendavia	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	1
	140	Zaragoza-Rio	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	1
	141	Sastago	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	1
	142	Ribarroja	ES	12	< RL	< RL	< RL	< RL	< RL	< RL	12
	143	Asco Abajo	ES	27	< RL	< RL	< RL	< RL	< RL	< RL	11
	144	Garcia	ES								
	145	Cherta	ES								
Rhone	146	Creys-Malville (EDF)	FR								
	147	Le Bugey (Loyettes)	FR								
	148	Saint Alban	FR								
	149	Cruas (Aval)	FR								
	150	Tricastin	FR								
	151	Roquemaure (Marcoule)	FR								
	152	Vallabregues	FR								
Po	153	Casale Monferrato	IT								

RL: reporting level for residual-β In surface water, i.e. 6.0 E-01 BQ/L (see Appendix B)

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

DENSE

Table S11: Time averages

YEAR	:	2016
SAMPLE TYPE	:	surface water (Bq l $^{-1}$)
NUCLIDE CATEGORY	:	residual-β

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
Mediterranean Sea	154	Garrucha	ES	1		8.5E-01			8.5E-01	8.5E-01	5
	155	Cabo de San Antonio	ES						Δ		
	156	Puerto de Palma	ES						Δ		
	157	Puerto de Tarragona	ES						Δ		
	158	Cabo de Creus	ES	1	1.0E+00				1.0E+00	1.0E+00	3
	159	Santa Teresa Gallura	IT								
	160	Olbia	IT								
	161	Maratea	IT								
	162	Rotondella	IT								
	163	Xwejni	MT								
	164	Lapsi	MT								
	165	Wied Ghammieq	MT								
	166	Polis	CY								
	167	Limassol	CY								
	168	Vasilikos	CY								
	169	Larnaca	CY								
	170	Paralimni	CY								
Maritsa	171	Kostenec	BG								
	172	Plovdiv	BG								
	173	Mirovo	BG								
	174	Harmanli	BG								
	175	Svilengrad	BG								
Drau	176	Schwabegg	AT	16	< RL	< RL	< RL	< RL	< RL	< RL	2
	177	Dravograd	SI								
Sava	178	Krsko	SI								
Tisza	179	Tiszabecs	HU								
	180	Gergelyiugornya	HU								
	181	Zahony	HU								
	182	Tiszabercel	HU								
	183	Rakamaz	HU								
	184	Szolnok	HU								
	185	Mindszent	HU								
	186	Tiszasziget I	HU								
	187	Tiszasziget II	HU								

RL: reporting level for residual-β In surface water, i.e. 6.0 E-01 BQ/L (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

Table S12: Time averages

YEAR : 2016
SAMPLE TYPE : surface water (Bq l $^{-1}$)
NUCLIDE CATEGORY : residual-β

DENSE

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
Danube	188	Vilshofen	DE								
	189	Jochenstein	AT	17	< RL	< RL	< RL	< RL	< RL	< RL	3
	190	Wolfsthal	AT	12	< RL	< RL	< RL	< RL	< RL	< RL	2
	191	Rajka	HU								
	192	Szob	HU								
	193	Budapest - North I	HU								
	194	Budapest - North II	HU								
	195	Budapest - Danube	HU								
	196	Budapest - Budafok	HU								
	197	Nagyteteny	HU								
	198	Dunaujvaros	HU								
	199	Dunafoldvar II	HU								
	200	Dunafoldvar I	HU								
	201	Paks	HU								
	202	Kalocsa	HU								
	203	Gerjen	HU								
	204	Baja	HU								
	205	Mohacs	HU								
	206	Drobeta Turnu Severin	RO	370	< RL	< RL	< RL	< RL	< RL	< RL	1
	207	Novo Selo	BG								
	208	Ruse	BG								
	209	Bechet	RO	370	< RL	< RL	< RL	< RL	< RL	< RL	3
	210	Oriahovo	BG								
	211	Baykal	BG								
	212	Nikopol	BG								
	213	Belene	BG								
	214	Zimnicea	RO	371	< RL	< RL	< RL	< RL	< RL	< RL	1
	215	Svishtov	BG								
	216	Ruse	BG								
	217	Silistra	BG								
	218	Calarasi	RO	371	< RL	< RL	< RL	< RL	< RL	< RL	7
	219	Cernavoda*	RO	370	< RL	< RL	< RL	< RL	< RL	< RL	11
	220	Tulcea	RO	371	< RL	< RL	< RL	< RL	< RL	< RL	11
	221	Sfantu Gheorge Tulcea	RO	371	< RL	< RL	< RL	< RL	< RL	< RL	7
	222	Galati	RO	371	< RL	< RL	< RL	< RL	< RL	< RL	11
Lough Neagh	223	Lough Neagh	UK								
Sava	224	Zagreb	HR								
Olt	225	Miercurea Ciuc	RO	371	< RL	< RL	< RL	< RL	< RL	< RL	12

RL: reporting level for residual-β In surface water, i.e. 6.0 E-01 BQ/L (see Appendix B)
*: sampling location downstream of a nuclear power plant

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

DENSE

Table S13: Time averages

YEAR	:	2017
SAMPLE TYPE	:	surface water (Bq l $^{-1}$)
NUCLIDE CATEGORY	:	residual-β

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
Indalsaelven	1	Oestersund-Storsjoen	SE								
Gulf Of Bothnia	2	Forsmark (F135)	SE								
	3	Bottenhavet (C14)	SE								
	4	Bottenviken (A5)	SE								
Kemijoki	5	Kemi	FI								
Oulujoki	6	Oulu	FI								
Kokemaenjoki	7	Pori	FI								
Kymijoki	8	Kotka	FI								
Narva	9	Narva	EE								
Gulf Of Finland	10	Gulf Of Finland, N8	EE								
	11	Gulf Of Finland, EE17	EE								
	12	Gulf Of Finland, PE	EE								
	13	Gulf Of Finland, PW	EE								
Daugava	14	Daugavpils	LV								
	15	Riga	LV								
	16	Drūkšiai Lake	LT								
Neman	17	Neman above Druskininkai	LT								
	18	Kauno Marios	LT								
	19	Neris River Near Buivydžiai	LT								
	20	Skirvytė River	LT								
	21	Akmena-Danė River	LT								
	22	Plateliai Lake	LT								
	23	Šešupė River Transb (Russia)	LT								
	24	Šventoji River Mouth	LT								
Vistula	25	Krakow Tyniec	PL								
	26	Annopol	PL								
	27	Warsaw	PL								
	28	Plock	PL								
	29	Kiezmark	PL								
Baltic Sea	30	Baltic Sea LT64	LT								
	31	Baltic Sea LT 20	LT								
	32	Baltic Sea LT6	LT								
	33	Curonian Lagoon LT10	LT								
	34	Oskarshamn (S36)	SE								
	35	Baltic Sea P-140	PL								
	36	Baltic Sea P-1	PL								
	37	Baltic Sea P-39	PL								
	38	Baltic Sea P-116	PL								
	39	Baltic Sea P-110	PL								
	40	Svenskehavn	DK								

RL: reporting level for residual-β In surface water, i.e. 6.0 E-01 BQ/L (see Appendix B)

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

Table S14: Time averages

YEAR : 2017

SAMPLE TYPE : surface water (Bq l $^{-1}$)

NUCLIDE CATEGORY : residual-β

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
Baltic Sea	41	Moen	DK								
	42	Gedser Odde	DK								
	43	Luebeck Bay	DE								
	44	Femern Baelt	DK								
	45	Langeland Baelt	DK								
Oder	46	Bohumin	CZ	4	< RL	< RL	< RL	< RL	< RL	< RL	2
	47	Chalupki	PL								
	48	Wroclaw	PL								
	49	Krajnik	PL								
The Great Belt	50	Halskov Rev	DK								
	51	Asnaes Rev	DK								
The Sound	52	The Sound S	DK								
	53	The Sound N(A)	DK								
Kattegat	54	Kattegat-413	DK								
	55	Ringhals (35)	SE								
Skagerrak	56	Fjaellbacka	SE								
Elbe	57	Hrensko	CZ	4	< RL	< RL	< RL	< RL	< RL	< RL	10
	58	Geesthacht	DE								
	59	Wedel	DE								
	60	Cuxhaven	DE								
Rhine	61	Weil am Rhein	DE								
	62	Breisach am Rhein	DE								
	63	Lauterbourg	FR								
	64	Worms	DE								
	65	Koblenz	DE								
	66	Trebur	DE								
Moselle	67	Cattenom (Aval)	FR								
	68	Schengen	LU								
	69	Wincheringen	DE								
Meuse	70	Chooz (Givet)	FR								
	71	Heer-Agimont	BE								
	72	Andenne	BE								
	73	Huy	BE								
	74	Ampsin	BE								
	75	Monsin	BE								
	76	Lixhe	BE								
	77	Eijsden	NL	13	< RL	< RL	< RL	< RL	< RL	< RL	12
Molse Nete	78	Geel	BE								
Scheldt	79	Doel	BE								

RL: reporting level for residual-β In surface water, i.e. 6.0 E-01 BQ/L (see Appendix B)

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

DENSE

Table S15: Time averages

YEAR : 2017
SAMPLE TYPE : surface water (Bq l $^{-1}$)
NUCLIDE CATEGORY : residual-β

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
North Sea	80	Terschelling, 100 km from coast	NL								
	81	Noordwijk, 70 km from coast	NL	4	< RL	< RL	< RL	< RL	< RL	< RL	8
	82	Noordwijk, 10 km from coast	NL								
	83	Gravelines (EDF)	FR								
Seine	84	Nogent sur Seine	FR								
	85	Le Vesinet	FR								
Channel	86	Paluel	FR								
	87	Penly	FR								
	88	Jobourg	FR								
	89	La Hague-Jardeheu	FR								
	90	Flamanville	FR								
Loire	91	Belleville sur Loire	FR								
	92	Dampierre en Burly	FR								
	93	Saint Laurent des Eaux	FR								
	94	Chinon (Candes-Aval)	FR								
	95	Angers (EDF)	FR								
Garonne	96	Golfech - St. Romain le Noble	FR								
Atlantic Ocean	97	Arcachon	FR								
	98	Cabo Ajo	ES						Δ		
	99	Brest	FR								
	100	Cabo Silleiro	ES						Δ		
	101	Isla Cristina	ES						Δ		
	102	Puerto de Cadiz	ES	1				9.2E-01	9.2E-01	9.2E-01	10
	103	Estrecho de Gibraltar	ES						Δ		
	104	Puerto De Las Palmas	ES						Δ		
Mino	105	Lugo	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	10
	106	Orense	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	5
	107	Caldelas De Tuy	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	4
Duero	108	Garray	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	7
	109	Quintanilla	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	10
	110	Villalcampo	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	2
Tagus	111	Trillo Arriba	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	9
	112	Trillo Abajo	ES	13	< RL	< RL	< RL	< RL	< RL	< RL	2
	113	Zorita Arriba	ES	12	< RL	< RL	< RL	< RL	< RL	< RL	1
	114	Zorita Abajo	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	12
	115	Aranjuez	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	6
	116	Toledo	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	9
	117	Talavera	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	9

RL: reporting level for residual-β In surface water, i.e. 6.0 E-01 BQ/L (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

Table S16: Time averages

YEAR : 2017
SAMPLE TYPE : surface water (Bq l $^{-1}$)
NUCLIDE CATEGORY : residual-β

DENSE

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
Tagus	118	Valdecanas	ES	12	< RL	< RL	< RL	< RL	< RL	< RL	10
	119	Embalse de Torrejon	ES	16	< RL	< RL	< RL	< RL	< RL	< RL	6
	120	Embalse de Alcantara	ES	12	< RL	< RL	< RL	< RL	< RL	< RL	12
	121	Vila Velha de Rodao	PT								
	122	Valada Do Ribatejo	PT								
Guadiana	123	Balbuena	ES	3	< RL		< RL	< RL	< RL	< RL	3
	124	Orellana	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	12
	125	Puente Palmas	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	6
	126	San Lucar	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	9
Guadalquivir	127	Mengibar	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	7
	128	Andujar Arriba	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	7
	129	Andujar Abajo	ES	12	< RL	< RL	< RL	< RL	< RL	< RL	2
	130	El Carpio	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	10
	131	Posadas	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	10
	132	Sevilla Rio	ES								
Jucar	133	Venta De Juan Romero	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	5
	134	Embalse De Alarcon	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	2
	135	Alcala Del Jucar	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	11
	136	Cofrentes Abajo	ES	12	< RL	< RL	< RL	< RL	< RL	< RL	12
Ebro	137	Garona Arriba	ES	14	< RL	< RL	< RL	< RL	< RL	< RL	2
	138	Garona Abajo	ES	26	< RL	< RL	< RL	< RL	< RL	< RL	6
	139	Mendavia	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	10
	140	Zaragoza-Rio	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	10
	141	Sastago	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	7
	142	Ribarroja	ES	12	< RL	< RL	< RL	< RL	< RL	< RL	10
	143	Asco Abajo	ES	27	< RL	< RL	< RL	< RL	< RL	< RL	11
	144	Garcia	ES								
	145	Cherta	ES								
Rhone	146	Creys-Malville (EDF)	FR								
	147	Le Bugey (Loyettes)	FR								
	148	Saint Alban	FR								
	149	Cruas (Aval)	FR								
	150	Tricastin	FR								
	151	Roquemaure (Marcoule)	FR								
	152	Vallabregues	FR								
Po	153	Casale Monferrato	IT								

RL: reporting level for residual-β In surface water, i.e. 6.0 E-01 BQ/L (see Appendix B)

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

DENSE

Table S17: Time averages

YEAR : 2017

SAMPLE TYPE : surface water (Bq l $^{-1}$)

NUCLIDE CATEGORY : residual-β

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
Mediterranean Sea	154	Garrucha	ES						Δ		
	155	Cabo de San Antonio	ES						Δ		
	156	Puerto de Palma	ES						Δ		
	157	Puerto de Tarragona	ES						Δ		
	158	Cabo de Creus	ES						Δ		
	159	Santa Teresa Gallura	IT								
	160	Olbia	IT								
	161	Maratea	IT								
	162	Rotondella	IT								
	163	Xwejni	MT								
	164	Lapsi	MT								
	165	Wied Ghammieq	MT								
	166	Polis	CY								
	167	Limassol	CY								
	168	Vasilikos	CY								
	169	Larnaca	CY								
	170	Paralimni	CY								
Maritsa	171	Kostenec	BG								
	172	Plovdiv	BG								
	173	Mirovo	BG								
	174	Harmanli	BG								
	175	Svilengrad	BG								
Drau	176	Schwabegg	AT	25	< RL	< RL	< RL	< RL	< RL	< RL	2
	177	Dravograd	SI								
Sava	178	Krsko	SI								
Tisza	179	Tiszabecs	HU								
	180	Gergelyiugornya	HU								
	181	Zahony	HU								
	182	Tiszabercel	HU								
	183	Rakamaz	HU								
	184	Szolnok	HU								
	185	Mindszent	HU								
	186	Tiszasziget I	HU								
	187	Tiszasziget II	HU								

RL: reporting level for residual-β In surface water, i.e. 6.0 E-01 BQ/L (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

Table S18: Time averages

YEAR : 2017

SAMPLE TYPE : surface water (Bq l $^{-1}$)

NUCLIDE CATEGORY : residual-β

DENSE

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
Danube	188	Vilshofen	DE								
	189	Jochenstein	AT	17	< RL	< RL	< RL	< RL	< RL	< RL	1
	190	Wolfsthal	AT	12	< RL	< RL	< RL	< RL	< RL	< RL	3
	191	Rajka	HU								
	192	Szob	HU								
	193	Budapest - North I	HU								
	194	Budapest - North II	HU								
	195	Budapest - Danube	HU								
	196	Budapest - Budafok	HU								
	197	Nagyteteny	HU								
	198	Dunaujvaros	HU								
	199	Dunafoldvar II	HU								
	200	Dunafoldvar I	HU								
	201	Paks	HU								
	202	Kalocsa	HU								
	203	Gerjen	HU								
	204	Baja	HU								
	205	Mohacs	HU								
	206	Drobeta Turnu Severin	RO	363	< RL	< RL	< RL	< RL	< RL	< RL	1
	207	Novo Selo	BG								
	208	Ruse	BG								
	209	Bechet	RO	345	< RL	< RL	< RL	< RL	< RL	< RL	12
	210	Oriahovo	BG								
	211	Baykal	BG								
	212	Nikopol	BG								
	213	Belene	BG								
	214	Zimnicea	RO	365	< RL	< RL	< RL	< RL	< RL	< RL	11
	215	Svishtov	BG								
	216	Ruse	BG								
	217	Silistra	BG								
	218	Calarasi	RO	325	< RL	< RL	< RL	< RL	< RL	< RL	8
	219	Cernavoda*	RO	332	< RL	< RL	< RL	< RL	< RL	< RL	10
	220	Tulcea	RO	365	< RL	< RL	< RL	< RL	< RL	< RL	12
	221	Sfantu Gheorge Tulcea	RO	361	< RL	< RL	< RL	< RL	< RL	< RL	10
	222	Galati	RO	345	< RL	< RL	< RL	< RL	< RL	< RL	12
Lough Neagh	223	Lough Neagh	UK								
Sava	224	Zagreb	HR								
Olt	225	Miercurea Ciuc	RO	365	< RL	< RL	< RL	< RL	< RL	< RL	7

RL: reporting level for residual-β In surface water, i.e. 6.0 E-01 BQ/L (see Appendix B)
*: sampling location downstream of a nuclear power plant

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

Table S19: Time averages

DENSE

YEAR : 2018
SAMPLE TYPE : surface water (Bq l $^{-1}$)
NUCLIDE CATEGORY : residual-β

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
Indalsaelven	1	Oestersund-Storsjoen	SE								
Gulf Of Bothnia	2	Forsmark (F135)	SE								
	3	Bottenhavet (C14)	SE								
	4	Bottenviken (A5)	SE								
Kemijoki	5	Kemi	FI								
Oulujoki	6	Oulu	FI								
Kokemaenjoki	7	Pori	FI								
Kymijoki	8	Kotka	FI								
Narva	9	Narva	EE								
Gulf Of Finland	10	Gulf Of Finland, N8	EE								
	11	Gulf Of Finland, EE17	EE								
	12	Gulf Of Finland, PE	EE								
	13	Gulf Of Finland, PW	EE								
Daugava	14	Daugavpils	LV								
	15	Riga	LV								
	16	Drūkšiai Lake	LT								
Neman	17	Neman above Druskininkai	LT								
	18	Kauno Marios	LT								
	19	Neris River Near Buivydžiai	LT								
	20	Skirvytė River	LT								
	21	Akmena-Danė River	LT								
	22	Plateliai Lake	LT								
	23	Šešupė River Transb (Russia)	LT								
	24	Šventoji River Mouth	LT								
Vistula	25	Krakow Tyniec	PL								
	26	Annopol	PL								
	27	Warsaw	PL								
	28	Plock	PL								
	29	Kiezmark	PL								
Baltic Sea	30	Baltic Sea LT64	LT								
	31	Baltic Sea LT 20	LT								
	32	Baltic Sea LT6	LT								
	33	Curonian Lagoon LT10	LT								
	34	Oskarshamn (S36)	SE								
	35	Baltic Sea P-140	PL								
	36	Baltic Sea P-1	PL								
	37	Baltic Sea P-39	PL								
	38	Baltic Sea P-116	PL								
	39	Baltic Sea P-110	PL								
	40	Svenskehavn	DK								

RL: reporting level for residual-β In surface water, i.e. 6.0 E-01 BQ/L (see Appendix B)

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

Table S20: Time averages

YEAR	:	2018
SAMPLE TYPE	:	surface water (Bq l $^{-1}$)
NUCLIDE CATEGORY	:	residual-β

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
Baltic Sea	41	Moen	DK								
	42	Gedser Odde	DK								
	43	Luebeck Bay	DE								
	44	Femern Baelt	DK								
	45	Langeland Baelt	DK								
Oder	46	Bohumin	CZ								
	47	Chalupki	PL								
	48	Wroclaw	PL								
	49	Krajnik	PL								
The Great Belt	50	Halskov Rev	DK								
	51	Asnaes Rev	DK								
The Sound	52	The Sound S	DK								
	53	The Sound N(A)	DK								
Kattegat	54	Kattegat-413	DK								
	55	Ringhals (35)	SE								
Skagerrak	56	Fjaellbacka	SE								
Elbe	57	Hrensko	CZ								
	58	Geesthacht	DE								
	59	Wedel	DE								
	60	Cuxhaven	DE								
Rhine	61	Weil am Rhein	DE								
	62	Breisach am Rhein	DE								
	63	Lauterbourg	FR								
	64	Worms	DE								
	65	Koblenz	DE								
	66	Trebur	DE								
Moselle	67	Cattenom (Aval)	FR								
	68	Schengen	LU								
	69	Wincheringen	DE								
Meuse	70	Chooz (Givet)	FR								
	71	Heer-Agimont	BE								
	72	Andenne	BE								
	73	Huy	BE								
	74	Ampsin	BE								
	75	Monsin	BE								
	76	Lixhe	BE								
	77	Eijsden	NL	*13*	*< RL*	*< RL*	*< RL*	*< RL*	*< RL*	< RL	*1*
Molse Nete	78	Geel	BE								
Scheldt	79	Doel	BE								

RL: reporting level for residual-β In surface water, i.e. 6.0 E-01 BQ/L (see Appendix B)

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

DENSE

Table S21: Time averages

YEAR : 2018

SAMPLE TYPE : surface water (Bq l $^{-1}$)

NUCLIDE CATEGORY : residual-β

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
North Sea	80	Terschelling, 100 km from coast	NL								
	81	Noordwijk, 70 km from coast	NL	*4*	*< RL*	*< RL*	*< RL*	*< RL*	*< RL*	< RL	*5*
	82	Noordwijk, 10 km from coast	NL								
	83	Gravelines (EDF)	FR								
Seine	84	Nogent sur Seine	FR								
	85	Le Vesinet	FR								
Channel	86	Paluel	FR								
	87	Penly	FR								
	88	Jobourg	FR								
	89	La Hague-Jardeheu	FR								
	90	Flamanville	FR								
Loire	91	Belleville sur Loire	FR								
	92	Dampierre en Burly	FR								
	93	Saint Laurent des Eaux	FR								
	94	Chinon (Candes-Aval)	FR								
	95	Angers (EDF)	FR								
Garonne	96	Golfech - St. Romain le Noble	FR								
Atlantic Ocean	97	Arcachon	FR								
	98	Cabo Ajo	ES						*Δ*		
	99	Brest	FR								
	100	Cabo Silleiro	ES						*Δ*		
	101	Isla Cristina	ES						*Δ*		
	102	Puerto de Cadiz	ES	*1*		*9.5E-01*			*9.5E-01*	9.5E-01	*5*
	103	Estrecho de Gibraltar	ES						*Δ*		
	104	Puerto De Las Palmas	ES						*Δ*		
Mino	105	Lugo	ES	*4*	*< RL*	*< RL*	*< RL*	*< RL*	*< RL*	< RL	*10*
	106	Orense	ES	*4*	*< RL*	*< RL*	*< RL*	*< RL*	*< RL*	< RL	*1*
	107	Caldelas De Tuy	ES	*4*	*< RL*	*< RL*	*< RL*	*< RL*	*< RL*	< RL	*1*
Duero	108	Garray	ES	*4*	*< RL*	*< RL*	*< RL*	*< RL*	*< RL*	< RL	*4*
	109	Quintanilla	ES	*4*	*< RL*	*< RL*	*< RL*	*< RL*	*< RL*	< RL	*4*
	110	Villalcampo	ES	*4*	*< RL*	*< RL*	*< RL*	*< RL*	*< RL*	< RL	*7*
Tagus	111	Trillo Arriba	ES	*4*	*< RL*	*< RL*	*< RL*	*< RL*	*< RL*	< RL	*12*
	112	Trillo Abajo	ES	*13*	*< RL*	*< RL*	*< RL*	*< RL*	*< RL*	< RL	*6*
	113	Zorita Arriba	ES	*12*	*< RL*	*< RL*	*< RL*	*< RL*	*< RL*	< RL	*12*
	114	Zorita Abajo	ES	*4*	*< RL*	*< RL*	*< RL*	*< RL*	*< RL*	< RL	*6*
	115	Aranjuez	ES	*4*	*< RL*	*< RL*	*< RL*	*< RL*	*< RL*	< RL	*3*
	116	Toledo	ES	*4*		*< RL*	*< RL*	*< RL*	*< RL*	< RL	*4*
	117	Talavera	ES	*4*	*< RL*	*< RL*	*< RL*	*< RL*	*< RL*	< RL	*3*

RL: reporting level for residual-β In surface water, i.e. 6.0 E-01 BQ/L (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

Table S22: Time averages

YEAR : 2018

SAMPLE TYPE : surface water (Bq l $^{-1}$)

NUCLIDE CATEGORY : residual-β

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
Tagus	118	Valdecanas	ES	12	< RL	< RL	< RL	< RL	< RL	< RL	1
	119	Embalse de Torrejon	ES	16	< RL	< RL	< RL	< RL	< RL	< RL	3
	120	Embalse de Alcantara	ES	11	< RL	< RL	< RL	< RL	< RL	< RL	1
	121	Vila Velha de Rodao	PT								
	122	Valada Do Ribatejo	PT								
Guadiana	123	Balbuena	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	12
	124	Orellana	ES	2		< RL		< RL	< RL	< RL	12
	125	Puente Palmas	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	12
	126	San Lucar	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	12
Guadalquivir	127	Mengibar	ES	3	< RL	< RL	< RL		< RL	< RL	1
	128	Andujar Arriba	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	1
	129	Andujar Abajo	ES	10	< RL	< RL	< RL	< RL	< RL	< RL	8
	130	El Carpio	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	7
	131	Posadas	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	1
	132	Sevilla Rio	ES								
Jucar	133	Venta De Juan Romero	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	8
	134	Embalse De Alarcon	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	8
	135	Alcala Del Jucar	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	5
	136	Cofrentes Abajo	ES	11	< RL	< RL	< RL	< RL	< RL	< RL	12
Ebro	137	Garona Arriba	ES	9	< RL	< RL	< RL		< RL	< RL	6
	138	Garona Abajo	ES	23	< RL	< RL	< RL	< RL	< RL	< RL	10
	139	Mendavia	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	4
	140	Zaragoza-Rio	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	1
	141	Sastago	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	1
	142	Ribarroja	ES	12	< RL	< RL	< RL	< RL	< RL	< RL	11
	143	Asco Abajo	ES	27	< RL	< RL	< RL	< RL	< RL	< RL	11
	144	Garcia	ES								
	145	Cherta	ES								
Rhone	146	Creys-Malville (EDF)	FR								
	147	Le Bugey (Loyettes)	FR								
	148	Saint Alban	FR								
	149	Cruas (Aval)	FR								
	150	Tricastin	FR								
	151	Roquemaure (Marcoule)	FR								
	152	Vallabregues	FR								
Po	153	Casale Monferrato	IT								

RL: reporting level for residual-β In surface water, i.e. 6.0 E-01 BQ/L (see Appendix B)

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

Table S23: Time averages

DENSE

YEAR	:	2018
SAMPLE TYPE	:	surface water (Bq l $^{-1}$)
NUCLIDE CATEGORY	:	residual-β

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
Mediterranean Sea	154	Garrucha	ES						Δ		
	155	Cabo de San Antonio	ES						Δ		
	156	Puerto de Palma	ES						Δ		
	157	Puerto de Tarragona	ES						Δ		
	158	Cabo de Creus	ES						Δ		
	159	Santa Teresa Gallura	IT								
	160	Olbia	IT								
	161	Maratea	IT								
	162	Rotondella	IT								
	163	Xwejni	MT								
	164	Lapsi	MT								
	165	Wied Ghammieq	MT								
	166	Polis	CY								
	167	Limassol	CY								
	168	Vasilikos	CY								
	169	Larnaca	CY								
	170	Paralimni	CY								
Maritsa	171	Kostenec	BG								
	172	Plovdiv	BG								
	173	Mirovo	BG								
	174	Harmanli	BG								
	175	Svilengrad	BG								
Drau	176	Schwabegg	AT	*25*	*< RL*	*< RL*	*< RL*	*< RL*	*< RL*	< RL	*8*
	177	Dravograd	SI								
Sava	178	Krsko	SI								
Tisza	179	Tiszabecs	HU								
	180	Gergelyiugornya	HU								
	181	Zahony	HU								
	182	Tiszabercel	HU								
	183	Rakamaz	HU								
	184	Szolnok	HU								
	185	Mindszent	HU								
	186	Tiszasziget I	HU								
	187	Tiszasziget II	HU								

RL: reporting level for residual-β In surface water, i.e. 6.0 E-01 BQ/L (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

Table S24: Time averages

YEAR	:	2018
SAMPLE TYPE	:	surface water (Bq l $^{-1}$)
NUCLIDE CATEGORY	:	residual-β

DENSE

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
Danube	188	Vilshofen	DE								
	189	Jochenstein	AT	16	< RL	< RL	< RL	< RL	< RL	< RL	12
	190	Wolfsthal	AT	12	< RL	< RL	< RL	< RL	< RL	< RL	8
	191	Rajka	HU								
	192	Szob	HU								
	193	Budapest - North I	HU								
	194	Budapest - North II	HU								
	195	Budapest - Danube	HU								
	196	Budapest - Budafok	HU								
	197	Nagyteteny	HU								
	198	Dunaujvaros	HU								
	199	Dunafoldvar II	HU								
	200	Dunafoldvar I	HU								
	201	Paks	HU								
	202	Kalocsa	HU								
	203	Gerjen	HU								
	204	Baja	HU								
	205	Mohacs	HU								
	206	Drobeta Turnu Severin	RO	365	< RL	< RL	< RL	< RL	< RL	< RL	3
	207	Novo Selo	BG								
	208	Ruse	BG								
	209	Bechet	RO	365	< RL	< RL	< RL	< RL	< RL	< RL	3
	210	Oriahovo	BG								
	211	Baykal	BG								
	212	Nikopol	BG								
	213	Belene	BG								
	214	Zimnicea	RO	363	< RL	< RL	< RL	< RL	< RL	< RL	7
	215	Svishtov	BG								
	216	Ruse	BG								
	217	Silistra	BG								
	218	Calarasi	RO	365	< RL	< RL	< RL	< RL	< RL	< RL	4
	219	Cernavoda*	RO	359	< RL	< RL	< RL	< RL	< RL	< RL	3
	220	Tulcea	RO	365	< RL	< RL	< RL	< RL	< RL	< RL	3
	221	Sfantu Gheorge Tulcea	RO	275	< RL	< RL	< RL	< RL	< RL	< RL	5
	222	Galati	RO	365	< RL	< RL	< RL	< RL	< RL	< RL	2
Lough Neagh	223	Lough Neagh	UK								
Sava	224	Zagreb	HR								
Olt	225	Miercurea Ciuc	RO	365	< RL	< RL	< RL	< RL	< RL	< RL	3

RL: reporting level for residual-β In surface water, i.e. 6.0 E-01 BQ/L (see Appendix B)
*: sampling location downstream of a nuclear power plant

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

DENSE

Table S25: Time averages

YEAR	:	2019
SAMPLE TYPE	:	surface water (Bq l^{-1})
NUCLIDE CATEGORY	:	residual-β

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
Indalsaelven	1	Oestersund-Storsjoen	SE								
Gulf Of Bothnia	2	Forsmark (F135)	SE								
	3	Bottenhavet (C14)	SE								
	4	Bottenviken (A5)	SE								
Kemijoki	5	Kemi	FI								
Oulujoki	6	Oulu	FI								
Kokemaenjoki	7	Pori	FI								
Kymijoki	8	Kotka	FI								
Narva	9	Narva	EE								
Gulf Of Finland	10	Gulf Of Finland, N8	EE								
	11	Gulf Of Finland, EE17	EE								
	12	Gulf Of Finland, PE	EE								
	13	Gulf Of Finland, PW	EE								
Daugava	14	Daugavpils	LV								
	15	Riga	LV								
	16	Drūkšiai Lake	LT								
Neman	17	Neman above Druskininkai	LT								
	18	Kauno Marios	LT								
	19	Neris River Near Buivydžiai	LT								
	20	Skirvytė River	LT								
	21	Akmena-Danė River	LT								
	22	Plateliai Lake	LT								
	23	Šešupė River Transb (Russia)	LT								
	24	Šventoji River Mouth	LT								
Vistula	25	Krakow Tyniec	PL								
	26	Annopol	PL								
	27	Warsaw	PL								
	28	Plock	PL								
	29	Kiezmark	PL								
Baltic Sea	30	Baltic Sea LT64	LT								
	31	Baltic Sea LT 20	LT								
	32	Baltic Sea LT6	LT								
	33	Curonian Lagoon LT10	LT								
	34	Oskarshamn (S36)	SE								
	35	Baltic Sea P-140	PL								
	36	Baltic Sea P-1	PL								
	37	Baltic Sea P-39	PL								
	38	Baltic Sea P-116	PL								
	39	Baltic Sea P-110	PL								
	40	Svenskehavn	DK								

RL: reporting level for residual-β In surface water, i.e. 6.0 E-01 BQ/L (see Appendix B)

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

Table S26: Time averages

YEAR : 2019
SAMPLE TYPE : surface water (Bq l $^{-1}$)
NUCLIDE CATEGORY : residual-β

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
Baltic Sea	41	Moen	DK								
	42	Gedser Odde	DK								
	43	Luebeck Bay	DE								
	44	Femern Baelt	DK								
	45	Langeland Baelt	DK								
Oder	46	Bohumin	CZ								
	47	Chalupki	PL								
	48	Wroclaw	PL								
	49	Krajnik	PL								
The Great Belt	50	Halskov Rev	DK								
	51	Asnaes Rev	DK								
The Sound	52	The Sound S	DK								
	53	The Sound N(A)	DK								
Kattegat	54	Kattegat-413	DK								
	55	Ringhals (35)	SE								
Skagerrak	56	Fjaellbacka	SE								
Elbe	57	Hrensko	CZ								
	58	Geesthacht	DE								
	59	Wedel	DE								
	60	Cuxhaven	DE								
Rhine	61	Weil am Rhein	DE								
	62	Breisach am Rhein	DE								
	63	Lauterbourg	FR								
	64	Worms	DE								
	65	Koblenz	DE								
	66	Trebur	DE								
Moselle	67	Cattenom (Aval)	FR								
	68	Schengen	LU								
	69	Wincheringen	DE								
Meuse	70	Chooz (Givet)	FR								
	71	Heer-Agimont	BE	*2*				*< RL*	*< RL*	< RL	*12*
	72	Andenne	BE	*2*				*< RL*	*< RL*	< RL	*12*
	73	Huy	BE	*2*				*< RL*	*< RL*	< RL	*12*
	74	Ampsin	BE								
	75	Monsin	BE								
	76	Lixhe	BE	*2*				*< RL*	*< RL*	< RL	*12*
	77	Eijsden	NL	*13*	*< RL*	*< RL*	*< RL*	*< RL*	*< RL*	< RL	*8*
Molse Nete	78	Geel	BE	*2*				*< RL*	*< RL*	< RL	*12*
Scheldt	79	Doel	BE	*2*				*< RL*	*< RL*	< RL	*12*

RL: reporting level for residual-β In surface water, i.e. 6.0 E-01 BQ/L (see Appendix B)

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

DENSE

Table S27: Time averages

YEAR : 2019
SAMPLE TYPE : surface water (Bq l $^{-1}$)
NUCLIDE CATEGORY : residual-β

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
North Sea	80	Terschelling, 100 km from coast	NL								
	81	Noordwijk, 70 km from coast	NL	4	< RL	< RL	< RL	< RL	< RL	< RL	2
	82	Noordwijk, 10 km from coast	NL								
	83	Gravelines (EDF)	FR								
Seine	84	Nogent sur Seine	FR								
	85	Le Vesinet	FR								
Channel	86	Paluel	FR								
	87	Penly	FR								
	88	Jobourg	FR								
	89	La Hague-Jardeheu	FR								
	90	Flamanville	FR								
Loire	91	Belleville sur Loire	FR								
	92	Dampierre en Burly	FR								
	93	Saint Laurent des Eaux	FR								
	94	Chinon (Candes-Aval)	FR								
	95	Angers (EDF)	FR								
Garonne	96	Golfech - St. Romain le Noble	FR								
Atlantic Ocean	97	Arcachon	FR								
	98	Cabo Ajo	ES						Δ		
	99	Brest	FR								
	100	Cabo Silleiro	ES						Δ		
	101	Isla Cristina	ES						Δ		
	102	Puerto de Cadiz	ES						Δ		
	103	Estrecho de Gibraltar	ES						Δ		
	104	Puerto De Las Palmas	ES								
Mino	105	Lugo	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	7
	106	Orense	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	9
	107	Caldelas De Tuy	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	10
Duero	108	Garray	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	10
	109	Quintanilla	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	10
	110	Villalcampo	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	7
Tagus	111	Trillo Arriba	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	9
	112	Trillo Abajo	ES	14	< RL	< RL	< RL	< RL	< RL	< RL	8
	113	Zorita Arriba	ES	12	< RL	< RL	< RL	< RL	< RL	< RL	12
	114	Zorita Abajo	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	6
	115	Aranjuez	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	9
	116	Toledo	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	12
	117	Talavera	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	3

RL: reporting level for residual-β In surface water, i.e. 6.0 E-01 BQ/L (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

Table S28: Time averages

YEAR : 2019

SAMPLE TYPE : surface water (Bq l $^{-1}$)

NUCLIDE CATEGORY : residual-β

DENSE

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
Tagus	118	Valdecanas	ES	12	< RL	< RL	< RL	< RL	< RL	< RL	11
	119	Embalse de Torrejon	ES	12	< RL	< RL	< RL	< RL	< RL	< RL	7
	120	Embalse de Alcantara	ES	12	< RL	< RL	< RL	< RL	< RL	< RL	12
	121	Vila Velha de Rodao	PT								
	122	Valada Do Ribatejo	PT								
Guadiana	123	Balbuena	ES	3	< RL	< RL	< RL		< RL	< RL	6
	124	Orellana	ES	3	< RL	< RL	< RL		< RL	< RL	3
	125	Puente Palmas	ES	3	< RL	< RL		< RL	< RL	< RL	3
	126	San Lucar	ES	3	< RL	< RL		< RL	< RL	< RL	10
Guadalquivir	127	Mengibar	ES								
	128	Andujar Arriba	ES								
	129	Andujar Abajo	ES								
	130	El Carpio	ES								
	131	Posadas	ES								
	132	Sevilla Rio	ES								
Jucar	133	Venta De Juan Romero	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	11
	134	Embalse De Alarcon	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	8
	135	Alcala Del Jucar	ES	3	< RL	< RL		< RL	< RL	< RL	2
	136	Cofrentes Abajo	ES	12	< RL	< RL	< RL	< RL	< RL	< RL	11
Ebro	137	Garona Arriba	ES								
	138	Garona Abajo	ES								
	139	Mendavia	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	1
	140	Zaragoza-Rio	ES								
	141	Sastago	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	10
	142	Ribarroja	ES	12	< RL	< RL	< RL	< RL	< RL	< RL	12
	143	Asco Abajo	ES	27	< RL	< RL	< RL	< RL	< RL	< RL	11
	144	Garcia	ES								
	145	Cherta	ES								
Rhone	146	Creys-Malville (EDF)	FR								
	147	Le Bugey (Loyettes)	FR								
	148	Saint Alban	FR								
	149	Cruas (Aval)	FR								
	150	Tricastin	FR								
	151	Roquemaure (Marcoule)	FR								
	152	Vallabregues	FR								
Po	153	Casale Monferrato	IT								

RL: reporting level for residual-β In surface water, i.e. 6.0 E-01 BQ/L (see Appendix B)

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

DENSE

Table S29: Time averages

YEAR : 2019
SAMPLE TYPE : surface water (Bq l $^{-1}$)
NUCLIDE CATEGORY : residual-β

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
Mediterranean Sea	154	Garrucha	ES						Δ		
	155	Cabo de San Antonio	ES						Δ		
	156	Puerto de Palma	ES						Δ		
	157	Puerto de Tarragona	ES						Δ		
	158	Cabo de Creus	ES						Δ		
	159	Santa Teresa Gallura	IT								
	160	Olbia	IT								
	161	Maratea	IT								
	162	Rotondella	IT								
	163	Xwejni	MT								
	164	Lapsi	MT								
	165	Wied Ghammieq	MT								
	166	Polis	CY								
	167	Limassol	CY								
	168	Vasilikos	CY								
	169	Larnaca	CY								
	170	Paralimni	CY								
Maritsa	171	Kostenec	BG								
	172	Plovdiv	BG								
	173	Mirovo	BG								
	174	Harmanli	BG								
	175	Svilengrad	BG								
Drau	176	Schwabegg	AT	25	< RL	< RL	< RL	< RL	< RL	< RL	9
	177	Dravograd	SI								
Sava	178	Krsko	SI								
Tisza	179	Tiszabecs	HU								
	180	Gergelyiugornya	HU								
	181	Zahony	HU								
	182	Tiszabercel	HU								
	183	Rakamaz	HU								
	184	Szolnok	HU								
	185	Mindszent	HU								
	186	Tiszasziget I	HU								
	187	Tiszasziget II	HU								

RL: reporting level for residual-β In surface water, i.e. 6.0 E-01 BQ/L (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

Table S30: Time averages

YEAR	:	2019
SAMPLE TYPE	:	surface water (Bq l $^{-1}$)
NUCLIDE CATEGORY	:	residual-β

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
Danube	188	Vilshofen	DE								
	189	Jochenstein	AT	15	< RL	< RL	< RL	< RL	< RL	< RL	6
	190	Wolfsthal	AT	12	< RL	< RL	< RL	< RL	< RL	< RL	10
	191	Rajka	HU								
	192	Szob	HU								
	193	Budapest - North I	HU								
	194	Budapest - North II	HU								
	195	Budapest - Danube	HU								
	196	Budapest - Budafok	HU								
	197	Nagyteteny	HU								
	198	Dunaujvaros	HU								
	199	Dunafoldvar II	HU								
	200	Dunafoldvar I	HU								
	201	Paks	HU								
	202	Kalocsa	HU								
	203	Gerjen	HU								
	204	Baja	HU								
	205	Mohacs	HU								
	206	Drobeta Turnu Severin	RO	365	< RL	< RL	< RL	< RL	< RL	< RL	3
	207	Novo Selo	BG								
	208	Ruse	BG								
	209	Bechet	RO	365	< RL	< RL	< RL	< RL	< RL	< RL	2
	210	Oriahovo	BG								
	211	Baykal	BG								
	212	Nikopol	BG								
	213	Belene	BG								
	214	Zimnicea	RO	363	< RL	< RL	< RL	< RL	< RL	< RL	11
	215	Svishtov	BG								
	216	Ruse	BG								
	217	Silistra	BG								
	218	Calarasi	RO	365	< RL	< RL	< RL	< RL	< RL	< RL	11
	219	Cernavoda*	RO	326	< RL	< RL	< RL	< RL	< RL	< RL	11
	220	Tulcea	RO	364	< RL	< RL	< RL	< RL	< RL	< RL	6
	221	Sfantu Gheorge Tulcea	RO	361	< RL	< RL	< RL	< RL	< RL	< RL	9
	222	Galati	RO	365	< RL	< RL	< RL	< RL	< RL	< RL	3
Lough Neagh	223	Lough Neagh	UK								
Sava	224	Zagreb	HR								
Olt	225	Miercurea Ciuc	RO	365	< RL	< RL	< RL	< RL	< RL	< RL	6

RL: reporting level for residual-β In surface water, i.e. 6.0 E-01 BQ/L (see Appendix B)
*: sampling location downstream of a nuclear power plant

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

DENSE

Table S31: Time averages

YEAR : 2020

SAMPLE TYPE : surface water (Bq l $^{-1}$)

NUCLIDE CATEGORY : residual-β

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
Indalsaelven	1	Oestersund-Storsjoen	SE								
Gulf Of Bothnia	2	Forsmark (F135)	SE								
	3	Bottenhavet (C14)	SE								
	4	Bottenviken (A5)	SE								
Kemijoki	5	Kemi	FI								
Oulujoki	6	Oulu	FI								
Kokemaenjoki	7	Pori	FI								
Kymijoki	8	Kotka	FI								
Narva	9	Narva	EE								
Gulf Of Finland	10	Gulf Of Finland, N8	EE								
	11	Gulf Of Finland, EE17	EE								
	12	Gulf Of Finland, PE	EE								
	13	Gulf Of Finland, PW	EE								
Daugava	14	Daugavpils	LV								
	15	Riga	LV								
	16	Drūkšiai Lake	LT								
Neman	17	Neman above Druskininkai	LT								
	18	Kauno Marios	LT								
	19	Neris River Near Buivydžiai	LT								
	20	Skirvytė River	LT								
	21	Akmena-Danė River	LT								
	22	Plateliai Lake	LT								
	23	Šešupė River Transb (Russia)	LT								
	24	Šventoji River Mouth	LT								
Vistula	25	Krakow Tyniec	PL								
	26	Annopol	PL								
	27	Warsaw	PL								
	28	Plock	PL								
	29	Kiezmark	PL								
Baltic Sea	30	Baltic Sea LT64	LT								
	31	Baltic Sea LT 20	LT								
	32	Baltic Sea LT6	LT								
	33	Curonian Lagoon LT10	LT								
	34	Oskarshamn (S36)	SE								
	35	Baltic Sea P-140	PL								
	36	Baltic Sea P-1	PL								
	37	Baltic Sea P-39	PL								
	38	Baltic Sea P-116	PL								
	39	Baltic Sea P-110	PL								
	40	Svenskehavn	DK								

RL: reporting level for residual-β In surface water, i.e. 6.0 E-01 BQ/L (see Appendix B)

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

Table S32: Time averages

YEAR	:	2020
SAMPLE TYPE	:	surface water (Bq l $^{-1}$)
NUCLIDE CATEGORY	:	residual-β

DENSE

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
Baltic Sea	41	Moen	DK								
	42	Gedser Odde	DK								
	43	Luebeck Bay	DE								
	44	Femern Baelt	DK								
	45	Langeland Baelt	DK								
Oder	46	Bohumin	CZ								
	47	Chalupki	PL								
	48	Wroclaw	PL								
	49	Krajnik	PL								
The Great Belt	50	Halskov Rev	DK								
	51	Asnaes Rev	DK								
The Sound	52	The Sound S	DK								
	53	The Sound N(A)	DK								
Kattegat	54	Kattegat-413	DK								
	55	Ringhals (35)	SE								
Skagerrak	56	Fjaellbacka	SE								
Elbe	57	Hrensko	CZ								
	58	Geesthacht	DE								
	59	Wedel	DE								
	60	Cuxhaven	DE								
Rhine	61	Weil am Rhein	DE								
	62	Breisach am Rhein	DE								
	63	Lauterbourg	FR								
	64	Worms	DE								
	65	Koblenz	DE								
	66	Trebur	DE								
Moselle	67	Cattenom (Aval)	FR								
	68	Schengen	LU								
	69	Wincheringen	DE								
Meuse	70	Chooz (Givet)	FR								
	71	Heer-Agimont	BE	52	< RL	< RL	< RL	< RL	< RL	< RL	8
	72	Andenne	BE	52	< RL	< RL	< RL	< RL	< RL	< RL	8
	73	Huy	BE	52	< RL	< RL	< RL	< RL	< RL	< RL	5
	74	Ampsin	BE								
	75	Monsin	BE								
	76	Lixhe	BE	52	< RL	< RL	< RL	< RL	< RL	< RL	6
	77	Eijsden	NL	14	< RL	< RL	< RL	< RL	< RL	< RL	12
Molse Nete	78	Geel	BE	52	< RL	< RL	< RL	< RL	< RL	< RL	12
Scheldt	79	Doel	BE	30	< RL	< RL		< RL	< RL	< RL	6

RL: reporting level for residual-β In surface water, i.e. 6.0 E-01 BQ/L (see Appendix B)

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

Table S33: Time averages

YEAR	:	2020
SAMPLE TYPE	:	surface water (Bq l $^{-1}$)
NUCLIDE CATEGORY	:	residual-β

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
North Sea	80	Terschelling, 100 km from coast	NL								
	81	Noordwijk, 70 km from coast	NL	4	< RL	< RL	< RL	< RL	< RL	< RL	11
	82	Noordwijk, 10 km from coast	NL								
	83	Gravelines (EDF)	FR								
Seine	84	Nogent sur Seine	FR								
	85	Le Vesinet	FR								
Channel	86	Paluel	FR								
	87	Penly	FR								
	88	Jobourg	FR								
	89	La Hague-Jardeheu	FR								
	90	Flamanville	FR								
Loire	91	Belleville sur Loire	FR								
	92	Dampierre en Burly	FR								
	93	Saint Laurent des Eaux	FR								
	94	Chinon (Candes-Aval)	FR								
	95	Angers (EDF)	FR								
Garonne	96	Golfech - St. Romain le Noble	FR								
Atlantic Ocean	97	Arcachon	FR								
	98	Cabo Ajo	ES						Δ		
	99	Brest	FR								
	100	Cabo Silleiro	ES	1			1.2E+00		1.2E+00	1.2E+00	8
	101	Isla Cristina	ES						Δ		
	102	Puerto de Cadiz	ES						Δ		
	103	Estrecho de Gibraltar	ES						Δ		
	104	Puerto De Las Palmas	ES						Δ		
Mino	105	Lugo	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	4
	106	Orense	ES	3	< RL		< RL	< RL	< RL	< RL	10
	107	Caldelas De Tuy	ES	3	< RL		< RL	< RL	< RL	< RL	10
Duero	108	Garray	ES	3	< RL		< RL	< RL	< RL	< RL	2
	109	Quintanilla	ES	3	< RL		< RL	< RL	< RL	< RL	7
	110	Villalcampo	ES	3	< RL		< RL	< RL	< RL	< RL	2
Tagus	111	Trillo Arriba	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	6
	112	Trillo Abajo	ES	13	< RL	< RL	< RL	< RL	< RL	< RL	3
	113	Zorita Arriba	ES	12	< RL	< RL	< RL	< RL	< RL	< RL	10
	114	Zorita Abajo	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	9
	115	Aranjuez	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	12
	116	Toledo	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	9
	117	Talavera	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	9

RL: reporting level for residual-β In surface water, i.e. 6.0 E-01 BQ/L (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

Table S34: Time averages

DENSE

YEAR : 2020
SAMPLE TYPE : surface water (Bq l^{-1})
NUCLIDE CATEGORY : residual-β

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
Tagus	118	Valdecanas	ES	9	< RL		< RL	< RL	< RL	< RL	7
	119	Embalse de Torrejon	ES	12	< RL	< RL	< RL	< RL	< RL	< RL	8
	120	Embalse de Alcantara	ES	12	< RL	< RL	< RL	< RL	< RL	< RL	12
	121	Vila Velha de Rodao	PT								
	122	Valada Do Ribatejo	PT								
Guadiana	123	Balbuena	ES	1		< RL			< RL	< RL	6
	124	Orellana	ES	1		< RL			< RL	< RL	6
	125	Puente Palmas	ES	2	< RL				< RL	< RL	1
	126	San Lucar	ES								
Guadalquivir	127	Mengibar	ES	4		< RL	< RL	< RL	< RL	< RL	10
	128	Andujar Arriba	ES	2			< RL	< RL	< RL	< RL	7
	129	Andujar Abajo	ES	1		< RL			< RL	< RL	4
	130	El Carpio	ES	2			< RL	< RL	< RL	< RL	7
	131	Posadas	ES	3		< RL	< RL	< RL	< RL	< RL	4
	132	Sevilla Rio	ES								
Jucar	133	Venta De Juan Romero	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	11
	134	Embalse De Alarcon	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	2
	135	Alcala Del Jucar	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	5
	136	Cofrentes Abajo	ES	12	< RL	< RL	< RL	< RL	< RL	< RL	10
Ebro	137	Garona Arriba	ES								
	138	Garona Abajo	ES								
	139	Mendavia	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	1
	140	Zaragoza-Rio	ES								
	141	Sastago	ES	3	< RL		< RL	< RL	< RL	< RL	10
	142	Ribarroja	ES	10	< RL	< RL	< RL	< RL	< RL	< RL	12
	143	Asco Abajo	ES	21	< RL	< RL	< RL	< RL	< RL	< RL	8
	144	Garcia	ES								
	145	Cherta	ES								
Rhone	146	Creys-Malville (EDF)	FR								
	147	Le Bugey (Loyettes)	FR								
	148	Saint Alban	FR								
	149	Cruas (Aval)	FR								
	150	Tricastin	FR								
	151	Roquemaure (Marcoule)	FR								
	152	Vallabregues	FR								
Po	153	Casale Monferrato	IT								

RL: reporting level for residual-β In surface water, i.e. 6.0 E-01 BQ/L (see Appendix B)

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

DENSE

Table S35: Time averages

YEAR : 2020

SAMPLE TYPE : surface water (Bq l $^{-1}$)

NUCLIDE CATEGORY : residual-β

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
Mediterranean Sea	154	Garrucha	ES						Δ		
	155	Cabo de San Antonio	ES						Δ		
	156	Puerto de Palma	ES						Δ		
	157	Puerto de Tarragona	ES	1			1.2E+00		1.2E+00	1.2E+00	9
	158	Cabo de Creus	ES						Δ		
	159	Santa Teresa Gallura	IT								
	160	Olbia	IT								
	161	Maratea	IT								
	162	Rotondella	IT								
	163	Xwejni	MT								
	164	Lapsi	MT								
	165	Wied Ghammieq	MT								
	166	Polis	CY								
	167	Limassol	CY								
	168	Vasilikos	CY								
	169	Larnaca	CY								
	170	Paralimni	CY								
Maritsa	171	Kostenec	BG								
	172	Plovdiv	BG								
	173	Mirovo	BG								
	174	Harmanli	BG								
	175	Svilengrad	BG								
Drau	176	Schwabegg	AT	24	< RL	< RL	< RL	< RL	< RL	< RL	11
	177	Dravograd	SI								
Sava	178	Krsko	SI								
Tisza	179	Tiszabecs	HU								
	180	Gergelyiugornya	HU								
	181	Zahony	HU								
	182	Tiszabercel	HU								
	183	Rakamaz	HU								
	184	Szolnok	HU								
	185	Mindszent	HU								
	186	Tiszasziget I	HU								
	187	Tiszasziget II	HU								

RL: reporting level for residual-β In surface water, i.e. 6.0 E-01 BQ/L (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

Table S36: Time averages

YEAR : 2020

SAMPLE TYPE : surface water (Bq l $^{-1}$)

NUCLIDE CATEGORY : residual-β

DENSE

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
Danube	188	Vilshofen	DE								
	189	Jochenstein	AT	15	< RL	< RL	< RL	< RL	< RL	< RL	9
	190	Wolfsthal	AT	12	< RL	< RL	< RL	< RL	< RL	< RL	12
	191	Rajka	HU								
	192	Szob	HU								
	193	Budapest - North I	HU								
	194	Budapest - North II	HU								
	195	Budapest - Danube	HU								
	196	Budapest - Budafok	HU								
	197	Nagyteteny	HU								
	198	Dunaujvaros	HU								
	199	Dunafoldvar II	HU								
	200	Dunafoldvar I	HU								
	201	Paks	HU								
	202	Kalocsa	HU								
	203	Gerjen	HU								
	204	Baja	HU								
	205	Mohacs	HU								
	206	Drobeta Turnu Severin	RO	366	< RL	< RL	< RL	< RL	< RL	< RL	7
	207	Novo Selo	BG								
	208	Ruse	BG								
	209	Bechet	RO	366	< RL	< RL	< RL	< RL	< RL	< RL	7
	210	Oriahovo	BG								
	211	Baykal	BG								
	212	Nikopol	BG								
	213	Belene	BG								
	214	Zimnicea	RO	364	< RL	< RL	< RL	< RL	< RL	< RL	4
	215	Svishtov	BG								
	216	Ruse	BG								
	217	Silistra	BG								
	218	Calarasi	RO	351	< RL	< RL	< RL	< RL	< RL	< RL	8
	219	Cernavoda*	RO	286	< RL	< RL	< RL	< RL	< RL	< RL	1
	220	Tulcea	RO	366	< RL	< RL	< RL	< RL	< RL	< RL	9
	221	Sfantu Gheorge Tulcea	RO	265	< RL	< RL	< RL	< RL	< RL	< RL	1
	222	Galati	RO	349	< RL	< RL	< RL	< RL	< RL	< RL	7
Lough Neagh	223	Lough Neagh	UK								
Sava	224	Zagreb	HR								
Olt	225	Miercurea Ciuc	RO	366	< RL	< RL	< RL	< RL	< RL	< RL	6

RL: reporting level for residual-β In surface water, i.e. 6.0 E-01 BQ/L (see Appendix B)
*: sampling location downstream of a nuclear power plant

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

Table S37: Time averages

YEAR : 2015

SAMPLE TYPE : surface water (Bq l $^{-1}$)

NUCLIDE CATEGORY : caesium-137 (^{137}Cs)

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
Indalsaelven	1	Oestersund-Storsjoen	SE	2		< RL	< RL		< RL	< RL	9
Gulf Of Bothnia	2	Forsmark (F135)	SE	1				< RL	< RL	< RL	10
	3	Bottenhavet (C14)	SE	1				< RL	< RL	< RL	10
	4	Bottenviken (A5)	SE	1				< RL	< RL	< RL	10
Kemijoki	5	Kemi	FI	2		< RL		< RL	< RL	< RL	5
Oulujoki	6	Oulu	FI	2		< RL		< RL	< RL	< RL	10
Kokemaenjoki	7	Pori	FI	2		< RL		< RL	< RL	< RL	5
Kymijoki	8	Kotka	FI	2		< RL		< RL	< RL	< RL	5
Narva	9	Narva	EE	4		< RL	< RL	< RL	< RL	< RL	4
Gulf Of Finland	10	Gulf Of Finland, N8	EE	1			< RL		< RL	< RL	8
	11	Gulf Of Finland, EE17	EE	1			< RL		< RL	< RL	8
	12	Gulf Of Finland, PE	EE	1			< RL		< RL	< RL	8
	13	Gulf Of Finland, PW	EE	1			< RL		< RL	< RL	8
Daugava	14	Daugavpils	LV								
	15	Riga	LV								
	16	Drūkšiai Lake	LT	4		< RL	< RL	< RL	< RL	< RL	5
Neman	17	Neman above Druskininkai	LT	4	< RL	< RL	< RL	< RL	< RL	< RL	2
	18	Kauno Marios	LT	6		< RL	< RL	< RL	< RL	< RL	8
	19	Neris River Near Buivydžiai	LT	4	< RL	< RL	< RL	< RL	< RL	< RL	10
	20	Skirvytė River	LT	4	< RL	< RL		< RL	< RL	< RL	5
	21	Akmena-Danė River	LT	4	< RL	< RL	< RL	< RL	< RL	< RL	7
	22	Plateliai Lake	LT	2		< RL	< RL		< RL	< RL	4
	23	Šešupė River Transb (Russia)	LT	4	< RL	< RL	< RL	< RL	< RL	< RL	10
	24	Šventoji River Mouth	LT	4	< RL	< RL		< RL	< RL	< RL	5
Vistula	25	Krakow Tyniec	PL	2		< RL	< RL		< RL	< RL	8
	26	Annopol	PL	2		< RL	< RL		< RL	< RL	8
	27	Warsaw	PL								
	28	Plock	PL	2		< RL	< RL		< RL	< RL	8
	29	Kiezmark	PL	2		< RL	< RL		< RL	< RL	4
Baltic Sea	30	Baltic Sea LT64	LT								
	31	Baltic Sea LT 20	LT	4	< RL	< RL	< RL	< RL	< RL	< RL	10
	32	Baltic Sea LT6	LT	4	< RL	< RL	< RL	< RL	< RL	< RL	10
	33	Curonian Lagoon LT10	LT	4	< RL	< RL	< RL	< RL	< RL	< RL	2
	34	Oskarshamn (S36)	SE	1			< RL		< RL	< RL	9
	35	Baltic Sea P-140	PL								
	36	Baltic Sea P-1	PL								
	37	Baltic Sea P-39	PL								
	38	Baltic Sea P-116	PL								
	39	Baltic Sea P-110	PL								
	40	Svenskehavn	DK								

RL: reporting level for ^{137}Cs In surface water, i.e. 1.0 BQ/L (see Appendix B)

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

Table S38: Time averages

YEAR : 2015
SAMPLE TYPE : surface water (Bq l $^{-1}$)
NUCLIDE CATEGORY : caesium-137 (^{137}Cs)

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
Baltic Sea	41	Moen	DK								
	42	Gedser Odde	DK								
	43	Luebeck Bay	DE								
	44	Femern Baelt	DK								
	45	Langeland Baelt	DK								
Oder	46	Bohumin	CZ	4	< RL	< RL	< RL	< RL	< RL	< RL	5
	47	Chalupki	PL	2		< RL	< RL		< RL	< RL	8
	48	Wroclaw	PL								
	49	Krajnik	PL	2		< RL	< RL		< RL	< RL	8
The Great Belt	50	Halskov Rev	DK								
	51	Asnaes Rev	DK								
The Sound	52	The Sound S	DK								
	53	The Sound N(A)	DK								
Kattegat	54	Kattegat-413	DK								
	55	Ringhals (35)	SE	2		< RL	< RL		< RL	< RL	6
Skagerrak	56	Fjaellbacka	SE	2		< RL	< RL		< RL	< RL	9
Elbe	57	Hrensko	CZ	4	< RL	< RL	< RL	< RL	< RL	< RL	7
	58	Geesthacht	DE	72	< RL	< RL	< RL	< RL	< RL	< RL	4
	59	Wedel	DE	12	< RL	< RL	< RL	< RL	< RL	< RL	5
	60	Cuxhaven	DE	12	< RL	< RL	< RL	< RL	< RL	< RL	10
Rhine	61	Weil am Rhein	DE	27	< RL	< RL	< RL	< RL	< RL	< RL	4
	62	Breisach am Rhein	DE	13	< RL	< RL	< RL	< RL	< RL	< RL	1
	63	Lauterbourg	FR								
	64	Worms	DE	13	< RL	< RL	< RL	< RL	< RL	< RL	3
	65	Koblenz	DE	26	< RL	< RL	< RL	< RL	< RL	< RL	3
	66	Trebur	DE	16	< RL	< RL	< RL	< RL	< RL	< RL	2
Moselle	67	Cattenom (Aval)	FR								
	68	Schengen	LU	40	< RL	< RL	< RL	< RL	< RL	< RL	3
	69	Wincheringen	DE	13	< RL	< RL	< RL	< RL	< RL	< RL	2
Meuse	70	Chooz (Givet)	FR								
	71	Heer-Agimont	BE	26	< RL	< RL	< RL	< RL	< RL	< RL	10
	72	Andenne	BE	26	< RL	< RL	< RL	< RL	< RL	< RL	4
	73	Huy	BE	25	< RL	< RL	< RL	< RL	< RL	< RL	4
	74	Ampsin	BE								
	75	Monsin	BE	26	< RL	< RL	< RL	< RL	< RL	< RL	12
	76	Lixhe	BE	26	< RL	< RL	< RL	< RL	< RL	< RL	2
	77	Eijsden	NL								
Molse Nete	78	Geel	BE								
Scheldt	79	Doel	BE	27	< RL	< RL	< RL	< RL	< RL	< RL	5

RL: reporting level for ^{137}Cs In surface water, i.e. 1.0 BQ/L (see Appendix B)

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

Table S39: Time averages

YEAR : 2015
SAMPLE TYPE : surface water (Bq l $^{-1}$)
NUCLIDE CATEGORY : caesium-137 (^{137}Cs)

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
North Sea	80	Terschelling, 100 km from coast	NL								
	81	Noordwijk, 70 km from coast	NL								
	82	Noordwijk, 10 km from coast	NL								
	83	Gravelines (EDF)	FR								
Seine	84	Nogent sur Seine	FR								
	85	Le Vesinet	FR								
Channel	86	Paluel	FR								
	87	Penly	FR								
	88	Jobourg	FR								
	89	La Hague-Jardeheu	FR								
	90	Flamanville	FR								
Loire	91	Belleville sur Loire	FR								
	92	Dampierre en Burly	FR								
	93	Saint Laurent des Eaux	FR								
	94	Chinon (Candes-Aval)	FR								
	95	Angers (EDF)	FR								
Garonne	96	Golfech - St. Romain le Noble	FR								
Atlantic Ocean	97	Arcachon	FR								
	98	Cabo Ajo	ES	*13*	*< RL*	*< RL*	*< RL*	*< RL*	*< RL*	< RL	*8*
	99	Brest	FR								
	100	Cabo Silleiro	ES	*8*	*< RL*	*< RL*	*< RL*	*< RL*	*< RL*	< RL	*8*
	101	Isla Cristina	ES	*8*	*< RL*	*< RL*	*< RL*	*< RL*	*< RL*	< RL	*3*
	102	Puerto de Cadiz	ES	*8*	*< RL*	*< RL*	*< RL*	*< RL*	*< RL*	< RL	*8*
	103	Estrecho de Gibraltar	ES	*8*	*< RL*	*< RL*	*< RL*	*< RL*	*< RL*	< RL	*9*
	104	Puerto De Las Palmas	ES	*8*	*< RL*	*< RL*	*< RL*	*< RL*	*< RL*	< RL	*9*
Mino	105	Lugo	ES	*4*	*< RL*	*< RL*	*< RL*	*< RL*	*< RL*	< RL	*7*
	106	Orense	ES	*4*	*< RL*	*< RL*	*< RL*	*< RL*	*< RL*	< RL	*8*
	107	Caldelas De Tuy	ES	*4*	*< RL*	*< RL*	*< RL*	*< RL*	*< RL*	< RL	*4*
Duero	108	Garray	ES	*4*	*< RL*	*< RL*	*< RL*	*< RL*	*< RL*	< RL	*7*
	109	Quintanilla	ES	*4*	*< RL*	*< RL*	*< RL*	*< RL*	*< RL*	< RL	*7*
	110	Villalcampo	ES	*4*	*< RL*	*< RL*	*< RL*	*< RL*	*< RL*	< RL	*4*
Tagus	111	Trillo Arriba	ES	*4*	*< RL*	*< RL*	*< RL*	*< RL*	*< RL*	< RL	*12*
	112	Trillo Abajo	ES	*13*	*< RL*	*< RL*	*< RL*	*< RL*	*< RL*	< RL	*7*
	113	Zorita Arriba	ES	*11*	*< RL*	*< RL*	*< RL*	*< RL*	*< RL*	< RL	*11*
	114	Zorita Abajo	ES	*3*		*< RL*	*< RL*	*< RL*	*< RL*	< RL	*9*
	115	Aranjuez	ES	*4*	*< RL*	*< RL*	*< RL*	*< RL*	*< RL*	< RL	*12*
	116	Toledo	ES	*4*	*< RL*	*< RL*	*< RL*	*< RL*	*< RL*	< RL	*9*
	117	Talavera	ES	*4*	*< RL*	*< RL*	*< RL*	*< RL*	*< RL*	< RL	*9*

RL: reporting level for ^{137}Cs In surface water, i.e. 1.0 BQ/L (see Appendix B)

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

Table S40: Time averages

YEAR : 2015
SAMPLE TYPE : surface water (Bq l $^{-1}$)
NUCLIDE CATEGORY : caesium-137 (^{137}Cs)

DENSE

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
Tagus	118	Valdecanas	ES	12	< RL	< RL	< RL	< RL	< RL	< RL	2
	119	Embalse de Torrejon	ES	16	< RL	< RL	< RL	< RL	< RL	< RL	2
	120	Embalse de Alcantara	ES	16	< RL	< RL	< RL	< RL	< RL	< RL	4
	121	Vila Velha de Rodao	PT								
	122	Valada Do Ribatejo	PT								
Guadiana	123	Balbuena	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	6
	124	Orellana	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	12
	125	Puente Palmas	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	11
	126	San Lucar	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	9
Guadalquivir	127	Mengibar	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	7
	128	Andujar Arriba	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	7
	129	Andujar Abajo	ES	12	< RL	< RL	< RL	< RL	< RL	< RL	6
	130	El Carpio	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	7
	131	Posadas	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	7
	132	Sevilla Rio	ES								
Jucar	133	Venta De Juan Romero	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	8
	134	Embalse De Alarcon	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	8
	135	Alcala Del Jucar	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	8
	136	Cofrentes Abajo	ES	12	< RL	< RL	< RL	< RL	< RL	< RL	8
Ebro	137	Garona Arriba	ES	12	< RL	< RL	< RL	< RL	< RL	< RL	4
	138	Garona Abajo	ES	24	< RL	< RL	< RL	< RL	< RL	< RL	7
	139	Mendavia	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	1
	140	Zaragoza-Rio	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	7
	141	Sastago	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	7
	142	Ribarroja	ES	12	< RL	< RL	< RL	< RL	< RL	< RL	8
	143	Asco Abajo	ES	27	< RL	< RL	< RL	< RL	< RL	< RL	7
	144	Garcia	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	5
	145	Cherta	ES								
Rhone	146	Creys-Malville (EDF)	FR								
	147	Le Bugey (Loyettes)	FR								
	148	Saint Alban	FR								
	149	Cruas (Aval)	FR								
	150	Tricastin	FR								
	151	Roquemaure (Marcoule)	FR								
	152	Vallabregues	FR								
Po	153	Casale Monferrato	IT	5	< RL	< RL	< RL	< RL	< RL	< RL	1

RL: reporting level for ^{137}Cs In surface water, i.e. 1.0 BQ/L (see Appendix B)

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

DENSE

Table S41: Time averages

YEAR : 2015

SAMPLE TYPE : surface water (Bq l $^{-1}$)

NUCLIDE CATEGORY : caesium-137 (^{137}Cs)

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
Mediterranean Sea	154	Garrucha	ES	8	< RL	< RL	< RL	< RL	< RL	< RL	5
	155	Cabo de San Antonio	ES	8	< RL	< RL	< RL	< RL	< RL	< RL	3
	156	Puerto de Palma	ES	8	< RL	< RL	< RL	< RL	< RL	< RL	9
	157	Puerto de Tarragona	ES	8	< RL	< RL	< RL	< RL	< RL	< RL	2
	158	Cabo de Creus	ES	12	< RL	< RL	< RL	< RL	< RL	< RL	11
	159	Santa Teresa Gallura	IT								
	160	Olbia	IT								
	161	Maratea	IT								
	162	Rotondella	IT								
	163	Xwejni	MT	4	2.5E+00	1.1E+00	< RL	2.3E+00	1.5E+00	2.5E+00	2
	164	Lapsi	MT	4	1.9E+00	2.7E+00	1.3E+00	1.6E+00	1.9E+00	2.7E+00	6
	165	Wied Ghammieq	MT	4	< RL	< RL	2.2E+00	2.3E+00	1.5E+00	2.3E+00	11
	166	Polis	CY								
	167	Limassol	CY	1		< RL			< RL	< RL	6
	168	Vasilikos	CY	1			< RL		< RL	< RL	7
	169	Larnaca	CY								
	170	Paralimni	CY								
Maritsa	171	Kostenec	BG	1				< RL	< RL	< RL	12
	172	Plovdiv	BG								
	173	Mirovo	BG	1				< RL	< RL	< RL	10
	174	Harmanli	BG								
	175	Svilengrad	BG								
Drau	176	Schwabegg	AT	26	< RL	< RL	< RL	< RL	< RL	< RL	1
	177	Dravograd	SI	2	< RL		< RL		< RL	< RL	9
Sava	178	Krsko	SI	4	< RL	< RL	< RL	< RL	< RL	< RL	6
Tisza	179	Tiszabecs	HU								
	180	Gergelyiugornya	HU								
	181	Zahony	HU								
	182	Tiszabercel	HU								
	183	Rakamaz	HU								
	184	Szolnok	HU								
	185	Mindszent	HU								
	186	Tiszasziget I	HU	3	< RL	< RL	< RL	< RL	< RL	< RL	1
	187	Tiszasziget II	HU								

RL: reporting level for ^{137}Cs In surface water, i.e. 1.0 BQ/L (see Appendix B)

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

Table S42: Time averages

DENSE

YEAR	:	**2015**
SAMPLE TYPE	:	**surface water (Bq l $^{-1}$)**
NUCLIDE CATEGORY	:	**caesium-137 (^{137}Cs)**

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
Danube	**188**	**Vilshofen**	**DE**	12	< RL	< RL	< RL	< RL	< RL	< RL	1
	189	**Jochenstein**	**AT**	17	< RL	< RL	< RL	< RL	< RL	< RL	3
	190	**Wolfsthal**	**AT**	12	< RL	< RL	< RL	< RL	< RL	< RL	9
	191	**Rajka**	**HU**								
	192	**Szob**	**HU**								
	193	**Budapest - North I**	**HU**								
	194	**Budapest - North II**	**HU**								
	195	**Budapest - Danube**	**HU**								
	196	**Budapest - Budafok**	**HU**								
	197	**Nagyteteny**	**HU**								
	198	**Dunaujvaros**	**HU**	2	< RL	< RL	< RL	< RL	< RL	< RL	1
	199	**Dunafoldvar II**	**HU**	4	< RL	< RL	< RL	< RL	< RL	< RL	1
	200	**Dunafoldvar I**	**HU**	3	< RL	< RL	< RL	< RL	< RL	< RL	1
	201	**Paks**	**HU**								
	202	**Kalocsa**	**HU**	1	< RL				< RL	< RL	1
	203	**Gerjen**	**HU**	9	< RL	< RL	< RL	< RL	< RL	< RL	2
	204	**Baja**	**HU**	2	< RL	< RL	< RL	< RL	< RL	< RL	1
	205	**Mohacs**	**HU**	2	< RL	< RL	< RL	< RL	< RL	< RL	1
	206	**Drobeta Turnu Severin**	**RO**	12	< RL	< RL	< RL	< RL	< RL	< RL	12
	207	**Novo Selo**	**BG**								
	208	**Ruse**	**BG**								
	209	**Bechet**	**RO**	12	< RL	< RL	< RL	< RL	< RL	< RL	3
	210	**Oriahovo**	**BG**								
	211	**Baykal**	**BG**								
	212	**Nikopol**	**BG**								
	213	**Belene**	**BG**								
	214	**Zimnicea**	**RO**	12	< RL	< RL	< RL	< RL	< RL	< RL	7
	215	**Svishtov**	**BG**								
	216	**Ruse**	**BG**								
	217	**Silistra**	**BG**								
	218	**Calarasi**	**RO**	12	< RL	< RL	< RL	< RL	< RL	< RL	5
	219	**Cernavoda***	**RO**	12	< RL	< RL	< RL	< RL	< RL	< RL	3
	220	**Tulcea**	**RO**	12	< RL	< RL	< RL	< RL	< RL	< RL	7
	221	**Sfantu Gheorge Tulcea**	**RO**	12	< RL	< RL	< RL	< RL	< RL	< RL	2
	222	**Galati**	**RO**	12	< RL	< RL	< RL	< RL	< RL	< RL	5
Lough Neagh	**223**	**Lough Neagh**	**UK**								
Sava	**224**	**Zagreb**	**HR**	4		< RL	< RL	< RL	< RL	< RL	4
Olt	**225**	**Miercurea Ciuc**	**RO**	12	< RL	< RL	< RL	< RL	< RL	< RL	1

RL: reporting level for ^{137}Cs In surface water, i.e. 1.0 BQ/L (see Appendix B)
*: sampling location downstream of a nuclear power plant

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

Table S43: Time averages

YEAR : 2016
SAMPLE TYPE : surface water (Bq l $^{-1}$)
NUCLIDE CATEGORY : caesium-137 (^{137}Cs)

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
Indalsaelven	1	Oestersund-Storsjoen	SE	2		< RL	< RL		< RL	< RL	6
Gulf Of Bothnia	2	Forsmark (F135)	SE	1				< RL	< RL	< RL	10
	3	Bottenhavet (C14)	SE	1			< RL		< RL	< RL	9
	4	Bottenviken (A5)	SE	1			< RL		< RL	< RL	9
Kemijoki	5	Kemi	FI	2		< RL		< RL	< RL	< RL	5
Oulujoki	6	Oulu	FI	2		< RL		< RL	< RL	< RL	10
Kokemaenjoki	7	Pori	FI	2		< RL		< RL	< RL	< RL	5
Kymijoki	8	Kotka	FI	2		< RL		< RL	< RL	< RL	10
Narva	9	Narva	EE	4		< RL	< RL	< RL	< RL	< RL	8
Gulf Of Finland	10	Gulf Of Finland, N8	EE	1		< RL			< RL	< RL	6
	11	Gulf Of Finland, EE17	EE	1		< RL			< RL	< RL	6
	12	Gulf Of Finland, PE	EE	1		< RL			< RL	< RL	6
	13	Gulf Of Finland, PW	EE	1		< RL			< RL	< RL	6
Daugava	14	Daugavpils	LV								
	15	Riga	LV								
	16	Drūkšiai Lake	LT	4		< RL	< RL	< RL	< RL	< RL	8
Neman	17	Neman above Druskininkai	LT	4	< RL	< RL	< RL	< RL	< RL	< RL	7
	18	Kauno Marios	LT	6		< RL	< RL	< RL	< RL	< RL	8
	19	Neris River Near Buivydžiai	LT	5	< RL	< RL	< RL	< RL	< RL	< RL	5
	20	Skirvytė River	LT	3	< RL		< RL	< RL	< RL	< RL	10
	21	Akmena-Danė River	LT	4	< RL	< RL	< RL	< RL	< RL	< RL	8
	22	Plateliai Lake	LT	2		< RL	< RL		< RL	< RL	4
	23	Šešupė River Transb (Russia)	LT	4	< RL	< RL	< RL	< RL	< RL	< RL	10
	24	Šventoji River Mouth	LT	4	< RL	< RL	< RL	< RL	< RL	< RL	5
Vistula	25	Krakow Tyniec	PL								
	26	Annopol	PL								
	27	Warsaw	PL								
	28	Plock	PL								
	29	Kiezmark	PL								
Baltic Sea	30	Baltic Sea LT64	LT	1			< RL		< RL	< RL	8
	31	Baltic Sea LT 20	LT	4	< RL	< RL	< RL	< RL	< RL	< RL	3
	32	Baltic Sea LT6	LT	4	< RL	< RL	< RL	< RL	< RL	< RL	3
	33	Curonian Lagoon LT10	LT	4	< RL	< RL	< RL	< RL	< RL	< RL	11
	34	Oskarshamn (S36)	SE	1				< RL	< RL	< RL	11
	35	Baltic Sea P-140	PL								
	36	Baltic Sea P-1	PL								
	37	Baltic Sea P-39	PL								
	38	Baltic Sea P-116	PL								
	39	Baltic Sea P-110	PL								
	40	Svenskehavn	DK								

RL: reporting level for ^{137}Cs In surface water, i.e. 1.0 BQ/L (see Appendix B)

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

Table S44: Time averages

YEAR : 2016
SAMPLE TYPE : surface water (Bq l $^{-1}$)
NUCLIDE CATEGORY : caesium-137 (^{137}Cs)

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
Baltic Sea	41	Moen	DK								
	42	Gedser Odde	DK								
	43	Luebeck Bay	DE								
	44	Femern Baelt	DK								
	45	Langeland Baelt	DK								
Oder	46	Bohumin	CZ	4	< RL	< RL	< RL	< RL	< RL	< RL	2
	47	Chalupki	PL								
	48	Wroclaw	PL								
	49	Krajnik	PL								
The Great Belt	50	Halskov Rev	DK								
	51	Asnaes Rev	DK								
The Sound	52	The Sound S	DK								
	53	The Sound N(A)	DK								
Kattegat	54	Kattegat-413	DK								
	55	Ringhals (35)	SE	2		< RL	< RL		< RL	< RL	5
Skagerrak	56	Fjaellbacka	SE	2		< RL	< RL		< RL	< RL	9
Elbe	57	Hrensko	CZ	4	< RL	< RL	< RL		< RL	< RL	7
	58	Geesthacht	DE	54	< RL	< RL	< RL	< RL	< RL	< RL	5
	59	Wedel	DE	11	< RL	< RL	< RL	< RL	< RL	< RL	11
	60	Cuxhaven	DE	11	< RL	< RL	< RL	< RL	< RL	< RL	7
Rhine	61	Weil am Rhein	DE	24	< RL	< RL	< RL	< RL	< RL	< RL	3
	62	Breisach am Rhein	DE	12	< RL	< RL	< RL	< RL	< RL	< RL	2
	63	Lauterbourg	FR								
	64	Worms	DE	12	< RL	< RL	< RL	< RL	< RL	< RL	6
	65	Koblenz	DE	25	< RL	< RL	< RL	< RL	< RL	< RL	2
	66	Trebur	DE	17	< RL	< RL	< RL	< RL	< RL	< RL	1
Moselle	67	Cattenom (Aval)	FR								
	68	Schengen	LU	40	< RL	< RL	< RL	< RL	< RL	< RL	2
	69	Wincheringen	DE	13	< RL	< RL	< RL	< RL	< RL	< RL	6
Meuse	70	Chooz (Givet)	FR								
	71	Heer-Agimont	BE	24	< RL	< RL	< RL	< RL	< RL	< RL	6
	72	Andenne	BE	27	< RL	< RL	< RL	< RL	< RL	< RL	9
	73	Huy	BE	27	< RL	< RL	< RL	< RL	< RL	< RL	9
	74	Ampsin	BE								
	75	Monsin	BE	27	< RL	< RL	< RL	< RL	< RL	< RL	10
	76	Lixhe	BE	27	< RL	< RL	< RL	< RL	< RL	< RL	7
	77	Eijsden	NL								
Molse Nete	78	Geel	BE								
Scheldt	79	Doel	BE	26	< RL	< RL	< RL	< RL	< RL	< RL	5

RL: reporting level for ^{137}Cs In surface water, i.e. 1.0 BQ/L (see Appendix B)

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

Table S45: Time averages

YEAR	:	2016
SAMPLE TYPE	:	surface water ($Bq\ l^{-1}$)
NUCLIDE CATEGORY	:	caesium-137 (^{137}Cs)

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
North Sea	80	Terschelling, 100 km from coast	NL								
	81	Noordwijk, 70 km from coast	NL								
	82	Noordwijk, 10 km from coast	NL								
	83	Gravelines (EDF)	FR								
Seine	84	Nogent sur Seine	FR								
	85	Le Vesinet	FR								
Channel	86	Paluel	FR								
	87	Penly	FR								
	88	Jobourg	FR								
	89	La Hague-Jardeheu	FR								
	90	Flamanville	FR								
Loire	91	Belleville sur Loire	FR								
	92	Dampierre en Burly	FR								
	93	Saint Laurent des Eaux	FR								
	94	Chinon (Candes-Aval)	FR								
	95	Angers (EDF)	FR								
Garonne	96	Golfech - St. Romain le Noble	FR								
Atlantic Ocean	97	Arcachon	FR								
	98	Cabo Ajo	ES	8	< RL	< RL	< RL	< RL	< RL	< RL	3
	99	Brest	FR								
	100	Cabo Silleiro	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	3
	101	Isla Cristina	ES	4		< RL	< RL	< RL	< RL	< RL	10
	102	Puerto de Cadiz	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	10
	103	Estrecho de Gibraltar	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	7
	104	Puerto De Las Palmas	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	10
Mino	105	Lugo	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	1
	106	Orense	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	10
	107	Caldelas De Tuy	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	10
Duero	108	Garray	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	7
	109	Quintanilla	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	2
	110	Villalcampo	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	10
Tagus	111	Trillo Arriba	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	9
	112	Trillo Abajo	ES	13	< RL	< RL	< RL	< RL	< RL	< RL	11
	113	Zorita Arriba	ES	12	< RL	< RL	< RL	< RL	< RL	< RL	10
	114	Zorita Abajo	ES	3	< RL	< RL	< RL		< RL	< RL	3
	115	Aranjuez	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	6
	116	Toledo	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	12
	117	Talavera	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	9

RL: reporting level for ^{137}Cs In surface water, i.e. 1.0 BQ/L (see Appendix B)

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

Table S46: Time averages

YEAR : 2016

SAMPLE TYPE : surface water (Bq l $^{-1}$)

NUCLIDE CATEGORY : caesium-137 (^{137}Cs)

DENSE

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
Tagus	118	Valdecanas	ES	12	< RL	< RL	< RL	< RL	< RL	< RL	2
	119	Embalse de Torrejon	ES	16	< RL	< RL	< RL	< RL	< RL	< RL	3
	120	Embalse de Alcantara	ES	16	< RL	< RL	< RL	< RL	< RL	< RL	12
	121	Vila Velha de Rodao	PT								
	122	Valada Do Ribatejo	PT								
Guadiana	123	Balbuena	ES	3	< RL	< RL	< RL		< RL	< RL	9
	124	Orellana	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	9
	125	Puente Palmas	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	9
	126	San Lucar	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	9
Guadalquivir	127	Mengibar	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	4
	128	Andujar Arriba	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	4
	129	Andujar Abajo	ES	12	< RL	< RL	< RL	< RL	< RL	< RL	2
	130	El Carpio	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	7
	131	Posadas	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	10
	132	Sevilla Rio	ES								
Jucar	133	Venta De Juan Romero	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	11
	134	Embalse De Alarcon	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	11
	135	Alcala Del Jucar	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	2
	136	Cofrentes Abajo	ES	12	< RL	< RL	< RL	< RL	< RL	< RL	10
Ebro	137	Garona Arriba	ES	14	< RL	< RL	< RL	< RL	< RL	< RL	6
	138	Garona Abajo	ES	27	< RL	< RL	< RL	< RL	< RL	< RL	6
	139	Mendavia	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	1
	140	Zaragoza-Rio	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	1
	141	Sastago	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	7
	142	Ribarroja	ES	12	< RL	< RL	< RL	< RL	< RL	< RL	10
	143	Asco Abajo	ES	27	< RL	< RL	< RL	< RL	< RL	< RL	8
	144	Garcia	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	5
	145	Cherta	ES								
Rhone	146	Creys-Malville (EDF)	FR								
	147	Le Bugey (Loyettes)	FR								
	148	Saint Alban	FR								
	149	Cruas (Aval)	FR								
	150	Tricastin	FR								
	151	Roquemaure (Marcoule)	FR								
	152	Vallabregues	FR								
Po	153	Casale Monferrato	IT	4	< RL	< RL	< RL	< RL	< RL	< RL	4

RL: reporting level for ^{137}Cs In surface water, i.e. 1.0 BQ/L (see Appendix B)

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

DENSE

Table S47: Time averages

YEAR : 2016
SAMPLE TYPE : surface water (Bq l $^{-1}$)
NUCLIDE CATEGORY : caesium-137 (^{137}Cs)

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
Mediterranean Sea	154	Garrucha	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	3
	155	Cabo de San Antonio	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	10
	156	Puerto de Palma	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	3
	157	Puerto de Tarragona	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	7
	158	Cabo de Creus	ES	8	< RL	< RL	< RL	< RL	< RL	< RL	10
	159	Santa Teresa Gallura	IT								
	160	Olbia	IT								
	161	Maratea	IT								
	162	Rotondella	IT								
	163	Xwejni	MT	4	< RL	< RL	< RL	< RL	< RL	< RL	12
	164	Lapsi	MT	4	< RL	< RL	< RL	< RL	< RL	< RL	11
	165	Wied Ghammieq	MT	4	< RL	< RL	< RL	< RL	< RL	< RL	4
	166	Polis	CY								
	167	Limassol	CY								
	168	Vasilikos	CY								
	169	Larnaca	CY								
	170	Paralimni	CY								
Maritsa	171	Kostenec	BG	1		< RL	< RL		< RL	< RL	7
	172	Plovdiv	BG								
	173	Mirovo	BG								
	174	Harmanli	BG								
	175	Svilengrad	BG								
Drau	176	Schwabegg	AT	16	< RL	< RL	< RL	< RL	< RL	< RL	2
	177	Dravograd	SI	2	< RL		< RL		< RL	< RL	8
Sava	178	Krsko	SI	4	< RL	< RL	< RL	< RL	< RL	< RL	3
Tisza	179	Tiszabecs	HU								
	180	Gergelyiugornya	HU								
	181	Zahony	HU								
	182	Tiszabercel	HU								
	183	Rakamaz	HU								
	184	Szolnok	HU								
	185	Mindszent	HU								
	186	Tiszasziget I	HU								
	187	Tiszasziget II	HU								

RL: reporting level for ^{137}Cs In surface water, i.e. 1.0 BQ/L (see Appendix B)

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

Table S48: Time averages

YEAR : 2016

SAMPLE TYPE : surface water (Bq l $^{-1}$)

NUCLIDE CATEGORY : caesium-137 (^{137}Cs)

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
Danube	188	Vilshofen	DE	11	< RL	< RL	< RL	< RL	< RL	< RL	6
	189	Jochenstein	AT	17	< RL	< RL	< RL	< RL	< RL	< RL	7
	190	Wolfsthal	AT	12	< RL	< RL	< RL	< RL	< RL	< RL	7
	191	Rajka	HU								
	192	Szob	HU								
	193	Budapest - North I	HU								
	194	Budapest - North II	HU								
	195	Budapest - Danube	HU								
	196	Budapest - Budafok	HU								
	197	Nagyteteny	HU								
	198	Dunaujvaros	HU								
	199	Dunafoldvar II	HU								
	200	Dunafoldvar I	HU								
	201	Paks	HU								
	202	Kalocsa	HU								
	203	Gerjen	HU								
	204	Baja	HU								
	205	Mohacs	HU								
	206	Drobeta Turnu Severin	RO	12	< RL	< RL	< RL	< RL	< RL	< RL	8
	207	Novo Selo	BG								
	208	Ruse	BG								
	209	Bechet	RO	12	< RL	< RL	< RL	< RL	< RL	< RL	4
	210	Oriahovo	BG								
	211	Baykal	BG								
	212	Nikopol	BG								
	213	Belene	BG								
	214	Zimnicea	RO	12	< RL	< RL	< RL	< RL	< RL	< RL	3
	215	Svishtov	BG								
	216	Ruse	BG								
	217	Silistra	BG								
	218	Calarasi	RO	12	< RL	< RL	< RL	< RL	< RL	< RL	1
	219	Cernavoda*	RO	12	< RL	< RL	< RL	< RL	< RL	< RL	3
	220	Tulcea	RO	12	< RL	< RL	< RL	< RL	< RL	< RL	3
	221	Sfantu Gheorge Tulcea	RO	12	< RL	< RL	< RL	< RL	< RL	< RL	10
	222	Galati	RO	12	< RL	< RL	< RL	< RL	< RL	< RL	11
Lough Neagh	223	Lough Neagh	UK								
Sava	224	Zagreb	HR	4	< RL	< RL	< RL	< RL	< RL	< RL	9
Olt	225	Miercurea Ciuc	RO	12	< RL	< RL	< RL	< RL	< RL	< RL	7

RL: reporting level for ^{137}Cs In surface water, i.e. 1.0 BQ/L (see Appendix B)
*: sampling location downstream of a nuclear power plant

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

Table S49: Time averages

YEAR	:	2017
SAMPLE TYPE	:	surface water (Bq l $^{-1}$)
NUCLIDE CATEGORY	:	caesium-137 (^{137}Cs)

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
Indalsaelven	1	Oestersund-Storsjoen	SE	2		< RL		< RL	< RL	< RL	10
Gulf Of Bothnia	2	Forsmark (F135)	SE	1			< RL		< RL	< RL	9
	3	Bottenhavet (C14)	SE	1				< RL	< RL	< RL	10
	4	Bottenviken (A5)	SE	1				< RL	< RL	< RL	10
Kemijoki	5	Kemi	FI	2		< RL		< RL	< RL	< RL	10
Oulujoki	6	Oulu	FI	2		< RL		< RL	< RL	< RL	5
Kokemaenjoki	7	Pori	FI	2		< RL		< RL	< RL	< RL	10
Kymijoki	8	Kotka	FI	2		< RL		< RL	< RL	< RL	5
Narva	9	Narva	EE	4	< RL	< RL	< RL	< RL	< RL	< RL	3
Gulf Of Finland	10	Gulf Of Finland, N8	EE	1			< RL		< RL	< RL	8
	11	Gulf Of Finland, EE17	EE	1			< RL		< RL	< RL	8
	12	Gulf Of Finland, PE	EE	1			< RL		< RL	< RL	8
	13	Gulf Of Finland, PW	EE	1			< RL		< RL	< RL	8
Daugava	14	Daugavpils	LV								
	15	Riga	LV								
	16	Drūkšiai Lake	LT	4		< RL	< RL		< RL	< RL	8
Neman	17	Neman above Druskininkai	LT	4	< RL	< RL	< RL	< RL	< RL	< RL	2
	18	Kauno Marios	LT	6		< RL	< RL	< RL	< RL	< RL	9
	19	Neris River Near Buivydžiai	LT	3	< RL	< RL	< RL		< RL	< RL	8
	20	Skirvytė River	LT	4	< RL	< RL	< RL	< RL	< RL	< RL	10
	21	Akmena-Danė River	LT	4	< RL	< RL	< RL	< RL	< RL	< RL	10
	22	Plateliai Lake	LT	2		< RL	< RL		< RL	< RL	9
	23	Šešupė River Transb (Russia)	LT								
	24	Šventoji River Mouth	LT	3	< RL	< RL	< RL		< RL	< RL	8
Vistula	25	Krakow Tyniec	PL	2		< RL		< RL	< RL	< RL	6
	26	Annopol	PL	2		< RL		< RL	< RL	< RL	10
	27	Warsaw	PL								
	28	Plock	PL	2		< RL	< RL		< RL	< RL	9
	29	Kiezmark	PL	2		< RL	< RL		< RL	< RL	9
Baltic Sea	30	Baltic Sea LT64	LT	1			< RL		< RL	< RL	8
	31	Baltic Sea LT 20	LT	4	< RL	< RL	< RL	< RL	< RL	< RL	8
	32	Baltic Sea LT6	LT	4	< RL	< RL	< RL	< RL	< RL	< RL	1
	33	Curonian Lagoon LT10	LT	4	< RL	< RL	< RL	< RL	< RL	< RL	11
	34	Oskarshamn (S36)	SE	1				< RL	< RL	< RL	12
	35	Baltic Sea P-140	PL								
	36	Baltic Sea P-1	PL								
	37	Baltic Sea P-39	PL								
	38	Baltic Sea P-116	PL								
	39	Baltic Sea P-110	PL								
	40	Svenskehavn	DK								

RL: reporting level for ^{137}Cs In surface water, i.e. 1.0 BQ/L (see Appendix B)

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

Table S50: Time averages

YEAR : 2017
SAMPLE TYPE : surface water (Bq l^{-1})
NUCLIDE CATEGORY : caesium-137 (^{137}Cs)

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
Baltic Sea	41	Moen	DK								
	42	Gedser Odde	DK								
	43	Luebeck Bay	DE								
	44	Femern Baelt	DK								
	45	Langeland Baelt	DK								
Oder	46	Bohumin	CZ	4	< RL	< RL	< RL	< RL	< RL	< RL	8
	47	Chalupki	PL	2		< RL		< RL	< RL	< RL	6
	48	Wroclaw	PL								
	49	Krajnik	PL	2		< RL		< RL	< RL	< RL	10
The Great Belt	50	Halskov Rev	DK								
	51	Asnaes Rev	DK								
The Sound	52	The Sound S	DK								
	53	The Sound N(A)	DK								
Kattegat	54	Kattegat-413	DK								
	55	Ringhals (35)	SE	2		< RL	< RL		< RL	< RL	4
Skagerrak	56	Fjaellbacka	SE	2		< RL	< RL		< RL	< RL	9
Elbe	57	Hrensko	CZ	4	< RL	< RL	< RL	< RL	< RL	< RL	3
	58	Geesthacht	DE	51	< RL	< RL	< RL	< RL	< RL	< RL	6
	59	Wedel	DE	7		< RL	< RL	< RL	< RL	< RL	5
	60	Cuxhaven	DE	6	< RL	< RL	< RL	< RL	< RL	< RL	6
Rhine	61	Weil am Rhein	DE	25	< RL	< RL	< RL	< RL	< RL	< RL	10
	62	Breisach am Rhein	DE	12	< RL	< RL	< RL	< RL	< RL	< RL	6
	63	Lauterbourg	FR								
	64	Worms	DE	13	< RL	< RL	< RL	< RL	< RL	< RL	3
	65	Koblenz	DE	20	< RL	< RL	< RL	< RL	< RL	< RL	12
	66	Trebur	DE	16	< RL	< RL	< RL	< RL	< RL	< RL	12
Moselle	67	Cattenom (Aval)	FR								
	68	Schengen	LU	40	< RL	< RL	< RL	< RL	< RL	< RL	2
	69	Wincheringen	DE	11	< RL	< RL	< RL	< RL	< RL	< RL	12
Meuse	70	Chooz (Givet)	FR								
	71	Heer-Agimont	BE	27	< RL	< RL	< RL	< RL	< RL	< RL	10
	72	Andenne	BE	27	< RL	< RL	< RL	< RL	< RL	< RL	11
	73	Huy	BE	26	< RL	< RL	< RL	< RL	< RL	< RL	9
	74	Ampsin	BE								
	75	Monsin	BE	1	< RL				< RL	< RL	1
	76	Lixhe	BE	27	< RL	< RL	< RL	< RL	< RL	< RL	8
	77	Eijsden	NL								
Molse Nete	78	Geel	BE								
Scheldt	79	Doel	BE	27	< RL	< RL	< RL	< RL	< RL	< RL	10

RL: reporting level for ^{137}Cs In surface water, i.e. 1.0 BQ/L (see Appendix B)

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

DENSE

Table S51: Time averages

YEAR	:	**2017**
SAMPLE TYPE	:	**surface water (Bq l $^{-1}$)**
NUCLIDE CATEGORY	:	**caesium-137 (^{137}Cs)**

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
North Sea	80	Terschelling, 100 km from coast	NL								
	81	Noordwijk, 70 km from coast	NL								
	82	Noordwijk, 10 km from coast	NL								
	83	Gravelines (EDF)	FR								
Seine	84	Nogent sur Seine	FR	1			< RL	< RL	< RL	< RL	9
	85	Le Vesinet	FR								
Channel	86	Paluel	FR								
	87	Penly	FR								
	88	Jobourg	FR								
	89	La Hague-Jardeheu	FR								
	90	Flamanville	FR								
Loire	91	Belleville sur Loire	FR								
	92	Dampierre en Burly	FR								
	93	Saint Laurent des Eaux	FR								
	94	Chinon (Candes-Aval)	FR								
	95	Angers (EDF)	FR								
Garonne	96	Golfech - St. Romain le Noble	FR								
Atlantic Ocean	97	Arcachon	FR								
	98	Cabo Ajo	ES	8	< RL	< RL	< RL	< RL	< RL	< RL	4
	99	Brest	FR								
	100	Cabo Silleiro	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	1
	101	Isla Cristina	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	7
	102	Puerto de Cadiz	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	4
	103	Estrecho de Gibraltar	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	12
	104	Puerto De Las Palmas	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	7
Mino	105	Lugo	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	1
	106	Orense	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	7
	107	Caldelas De Tuy	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	7
Duero	108	Garray	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	10
	109	Quintanilla	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	10
	110	Villalcampo	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	10
Tagus	111	Trillo Arriba	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	9
	112	Trillo Abajo	ES	13	< RL	< RL	< RL	< RL	< RL	< RL	10
	113	Zorita Arriba	ES	12	< RL	< RL	< RL	< RL	< RL	< RL	8
	114	Zorita Abajo	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	6
	115	Aranjuez	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	3
	116	Toledo	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	6
	117	Talavera	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	3

RL: reporting level for ^{137}Cs In surface water, i.e. 1.0 BQ/L (see Appendix B)

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

Table S52: Time averages

YEAR : 2017
SAMPLE TYPE : surface water (Bq l $^{-1}$)
NUCLIDE CATEGORY : caesium-137 (^{137}Cs)

DENSE

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
Tagus	118	Valdecanas	ES	12	< RL	< RL	< RL	< RL	< RL	< RL	5
	119	Embalse de Torrejon	ES	16	< RL	< RL	< RL	< RL	< RL	< RL	11
	120	Embalse de Alcantara	ES	16	< RL	< RL	< RL	< RL	< RL	< RL	6
	121	Vila Velha de Rodao	PT								
	122	Valada Do Ribatejo	PT	12	< RL	< RL	< RL	< RL	< RL	< RL	5
Guadiana	123	Balbuena	ES	3	< RL		< RL	< RL	< RL	< RL	9
	124	Orellana	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	9
	125	Puente Palmas	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	3
	126	San Lucar	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	12
Guadalquivir	127	Mengibar	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	10
	128	Andujar Arriba	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	1
	129	Andujar Abajo	ES	12	< RL	< RL	< RL	< RL	< RL	< RL	2
	130	El Carpio	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	1
	131	Posadas	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	10
	132	Sevilla Rio	ES								
Jucar	133	Venta De Juan Romero	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	11
	134	Embalse De Alarcon	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	5
	135	Alcala Del Jucar	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	5
	136	Cofrentes Abajo	ES	12	< RL	< RL	< RL	< RL	< RL	< RL	5
Ebro	137	Garona Arriba	ES	14	< RL	< RL	< RL	< RL	< RL	< RL	6
	138	Garona Abajo	ES	26	< RL	< RL	< RL	< RL	< RL	< RL	2
	139	Mendavia	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	10
	140	Zaragoza-Rio	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	7
	141	Sastago	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	1
	142	Ribarroja	ES	12	< RL	< RL	< RL	< RL	< RL	< RL	2
	143	Asco Abajo	ES	27	< RL	< RL	< RL	< RL	< RL	< RL	12
	144	Garcia	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	5
	145	Cherta	ES								
Rhone	146	Creys-Malville (EDF)	FR								
	147	Le Bugey (Loyettes)	FR								
	148	Saint Alban	FR								
	149	Cruas (Aval)	FR								
	150	Tricastin	FR								
	151	Roquemaure (Marcoule)	FR								
	152	Vallabregues	FR								
Po	153	Casale Monferrato	IT								

RL: reporting level for ^{137}Cs In surface water, i.e. 1.0 BQ/L (see Appendix B)

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

DENSE

Table S53: Time averages

YEAR : 2017

SAMPLE TYPE : surface water (Bq l^{-1})

NUCLIDE CATEGORY : caesium-137 (^{137}Cs)

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
Mediterranean Sea	154	Garrucha	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	10
	155	Cabo de San Antonio	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	1
	156	Puerto de Palma	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	1
	157	Puerto de Tarragona	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	7
	158	Cabo de Creus	ES	8	< RL	< RL	< RL	< RL	< RL	< RL	5
	159	Santa Teresa Gallura	IT								
	160	Olbia	IT								
	161	Maratea	IT								
	162	Rotondella	IT								
	163	Xwejni	MT	3	< RL	< RL	< RL	< RL	< RL	< RL	1
	164	Lapsi	MT	4	< RL	< RL	< RL	< RL	< RL	< RL	2
	165	Wied Ghammieq	MT	4	< RL	< RL	< RL	< RL	< RL	< RL	5
	166	Polis	CY								
	167	Limassol	CY								
	168	Vasilikos	CY								
	169	Larnaca	CY								
	170	Paralimni	CY								
Maritsa	171	Kostenec	BG	1		< RL	< RL		< RL	< RL	6
	172	Plovdiv	BG								
	173	Mirovo	BG								
	174	Harmanli	BG								
	175	Svilengrad	BG								
Drau	176	Schwabegg	AT	25	< RL	< RL	< RL	< RL	< RL	< RL	1
	177	Dravograd	SI	2	< RL		< RL		< RL	< RL	3
Sava	178	Krsko	SI	1		< RL			< RL	< RL	5
Tisza	179	Tiszabecs	HU								
	180	Gergelyiugornya	HU								
	181	Zahony	HU								
	182	Tiszabercel	HU								
	183	Rakamaz	HU								
	184	Szolnok	HU								
	185	Mindszent	HU								
	186	Tiszasziget I	HU								
	187	Tiszasziget II	HU								

RL: reporting level for ^{137}Cs In surface water, i.e. 1.0 BQ/L (see Appendix B)

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

Table S54: Time averages

YEAR : 2017
SAMPLE TYPE : surface water (Bq l $^{-1}$)
NUCLIDE CATEGORY : caesium-137 (^{137}Cs)

DENSE

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
Danube	188	Vilshofen	DE	11	< RL	< RL	< RL	< RL	< RL	< RL	12
	189	Jochenstein	AT	17	< RL	< RL	< RL	< RL	< RL	< RL	8
	190	Wolfsthal	AT	12	< RL	< RL	< RL	< RL	< RL	< RL	3
	191	Rajka	HU								
	192	Szob	HU								
	193	Budapest - North I	HU								
	194	Budapest - North II	HU								
	195	Budapest - Danube	HU								
	196	Budapest - Budafok	HU								
	197	Nagyteteny	HU								
	198	Dunaujvaros	HU								
	199	Dunafoldvar II	HU								
	200	Dunafoldvar I	HU								
	201	Paks	HU								
	202	Kalocsa	HU								
	203	Gerjen	HU								
	204	Baja	HU								
	205	Mohacs	HU								
	206	Drobeta Turnu Severin	RO	12	< RL	< RL	< RL	< RL	< RL	< RL	2
	207	Novo Selo	BG								
	208	Ruse	BG								
	209	Bechet	RO	12	< RL	< RL	< RL	< RL	< RL	< RL	8
	210	Oriahovo	BG								
	211	Baykal	BG								
	212	Nikopol	BG								
	213	Belene	BG								
	214	Zimnicea	RO	12	< RL	< RL	< RL	< RL	< RL	< RL	6
	215	Svishtov	BG								
	216	Ruse	BG								
	217	Silistra	BG								
	218	Calarasi	RO	12	< RL	< RL	< RL	< RL	< RL	< RL	2
	219	Cernavoda*	RO	12	< RL	< RL	< RL	< RL	< RL	< RL	1
	220	Tulcea	RO	12	< RL	< RL	< RL	< RL	< RL	< RL	4
	221	Sfantu Gheorge Tulcea	RO	12	< RL	< RL	< RL	< RL	< RL	< RL	2
	222	Galati	RO	12	< RL	< RL	< RL	< RL	< RL	< RL	3
Lough Neagh	223	Lough Neagh	UK								
Sava	224	Zagreb	HR	4	< RL	< RL	< RL	< RL	< RL	< RL	3
Olt	225	Miercurea Ciuc	RO	12	< RL	< RL	< RL	< RL	< RL	< RL	9

RL: reporting level for ^{137}Cs In surface water, i.e. 1.0 BQ/L (see Appendix B)
*: sampling location downstream of a nuclear power plant

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

Table S55: Time averages

YEAR	:	2018
SAMPLE TYPE	:	surface water (Bq l $^{-1}$)
NUCLIDE CATEGORY	:	caesium-137 (^{137}Cs)

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
Indalsaelven	1	Oestersund-Storsjoen	SE	2		< RL	< RL		< RL	< RL	9
Gulf Of Bothnia	2	Forsmark (F135)	SE	1			< RL		< RL	< RL	9
	3	Bottenhavet (C14)	SE	1			< RL		< RL	< RL	9
	4	Bottenviken (A5)	SE	1			< RL		< RL	< RL	9
Kemijoki	5	Kemi	FI	1		< RL			< RL	< RL	5
Oulujoki	6	Oulu	FI	1		< RL			< RL	< RL	5
Kokemaenjoki	7	Pori	FI	1		< RL			< RL	< RL	6
Kymijoki	8	Kotka	FI	1		< RL			< RL	< RL	5
Narva	9	Narva	EE	4	< RL	< RL	< RL	< RL	< RL	< RL	3
Gulf Of Finland	10	Gulf Of Finland, N8	EE	1			< RL		< RL	< RL	8
	11	Gulf Of Finland, EE17	EE	1			< RL		< RL	< RL	8
	12	Gulf Of Finland, PE	EE	1			< RL		< RL	< RL	8
	13	Gulf Of Finland, PW	EE	1			< RL		< RL	< RL	8
Daugava	14	Daugavpils	LV								
	15	Riga	LV								
	16	Drūkšiai Lake	LT	4		< RL	< RL	< RL	< RL	< RL	8
Neman	17	Neman above Druskininkai	LT	4	< RL	< RL	< RL		< RL	< RL	5
	18	Kauno Marios	LT	6		< RL	< RL	< RL	< RL	< RL	4
	19	Neris River Near Buivydžiai	LT	12	< RL	< RL	< RL	< RL	< RL	< RL	1
	20	Skirvytė River	LT	4	< RL	< RL	< RL	< RL	< RL	< RL	5
	21	Akmena-Danė River	LT	4	< RL	< RL	< RL	< RL	< RL	< RL	5
	22	Plateliai Lake	LT	1			< RL		< RL	< RL	8
	23	Šešupė River Transb (Russia)	LT								
	24	Šventoji River Mouth	LT	4	< RL	< RL	< RL	< RL	< RL	< RL	5
Vistula	25	Krakow Tyniec	PL	2		< RL		< RL	< RL	< RL	5
	26	Annopol	PL	2		< RL		< RL	< RL	< RL	10
	27	Warsaw	PL								
	28	Plock	PL	2		< RL	< RL		< RL	< RL	4
	29	Kiezmark	PL	2		< RL	< RL		< RL	< RL	9
Baltic Sea	30	Baltic Sea LT64	LT	1			< RL		< RL	< RL	9
	31	Baltic Sea LT 20	LT	4	< RL	< RL	< RL	< RL	< RL	< RL	8
	32	Baltic Sea LT6	LT	4	< RL	< RL	< RL	< RL	< RL	< RL	5
	33	Curonian Lagoon LT10	LT	4	< RL	< RL	< RL	< RL	< RL	< RL	2
	34	Oskarshamn (S36)	SE	1			< RL		< RL	< RL	9
	35	Baltic Sea P-140	PL								
	36	Baltic Sea P-1	PL								
	37	Baltic Sea P-39	PL								
	38	Baltic Sea P-116	PL								
	39	Baltic Sea P-110	PL								
	40	Svenskehavn	DK								

RL: reporting level for ^{137}Cs In surface water, i.e. 1.0 BQ/L (see Appendix B)

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

Table S56: Time averages

YEAR : 2018
SAMPLE TYPE : surface water (Bq l $^{-1}$)
NUCLIDE CATEGORY : caesium-137 (^{137}Cs)

DENSE

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
Baltic Sea	41	Moen	DK	1		< RL			< RL	< RL	5
	42	Gedser Odde	DK								
	43	Luebeck Bay	DE								
	44	Femern Baelt	DK								
	45	Langeland Baelt	DK	1		< RL			< RL	< RL	5
Oder	46	Bohumin	CZ								
	47	Chalupki	PL	2		< RL		< RL	< RL	< RL	10
	48	Wroclaw	PL								
	49	Krajnik	PL	2		< RL		< RL	< RL	< RL	5
The Great Belt	50	Halskov Rev	DK	2		< RL			< RL	< RL	5
	51	Asnaes Rev	DK	1		< RL			< RL	< RL	5
The Sound	52	The Sound S	DK	1		< RL			< RL	< RL	5
	53	The Sound N(A)	DK	1		< RL			< RL	< RL	5
Kattegat	54	Kattegat-413	DK	1		< RL			< RL	< RL	5
	55	Ringhals (35)	SE	2		< RL		< RL	< RL	< RL	5
Skagerrak	56	Fjaellbacka	SE	2		< RL	< RL		< RL	< RL	4
Elbe	57	Hrensko	CZ								
	58	Geesthacht	DE	56	< RL	< RL	< RL	< RL	< RL	< RL	9
	59	Wedel	DE	12	< RL	< RL	< RL	< RL	< RL	< RL	4
	60	Cuxhaven	DE								
Rhine	61	Weil am Rhein	DE	26	< RL	< RL	< RL	< RL	< RL	< RL	6
	62	Breisach am Rhein	DE	12	< RL	< RL	< RL	< RL	< RL	< RL	2
	63	Lauterbourg	FR								
	64	Worms	DE	12	< RL	< RL	< RL	< RL	< RL	< RL	6
	65	Koblenz	DE	24	< RL	< RL	< RL	< RL	< RL	< RL	1
	66	Trebur	DE	14	< RL	< RL	< RL	< RL	< RL	< RL	5
Moselle	67	Cattenom (Aval)	FR								
	68	Schengen	LU	43	< RL	< RL	< RL	< RL	< RL	< RL	12
	69	Wincheringen	DE	12	< RL	< RL	< RL	< RL	< RL	< RL	1
Meuse	70	Chooz (Givet)	FR								
	71	Heer-Agimont	BE	28	< RL	< RL	< RL	< RL	< RL	< RL	9
	72	Andenne	BE	28	< RL	< RL	< RL	< RL	< RL	< RL	4
	73	Huy	BE	28	< RL	< RL	< RL	< RL	< RL	< RL	10
	74	Ampsin	BE								
	75	Monsin	BE								
	76	Lixhe	BE	27	< RL	< RL	< RL	< RL	< RL	< RL	4
	77	Eijsden	NL								
Molse Nete	78	Geel	BE	27	< RL	< RL	< RL	< RL	< RL	< RL	1
Scheldt	79	Doel	BE	28	< RL	< RL	< RL	< RL	< RL	< RL	12

RL: reporting level for ^{137}Cs In surface water, i.e. 1.0 BQ/L (see Appendix B)

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

DENSE

Table S57: Time averages

YEAR : 2018

SAMPLE TYPE : surface water (Bq l $^{-1}$)

NUCLIDE CATEGORY : caesium-137 (^{137}Cs)

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
North Sea	80	Terschelling, 100 km from coast	NL								
	81	Noordwijk, 70 km from coast	NL								
	82	Noordwijk, 10 km from coast	NL								
	83	Gravelines (EDF)	FR								
Seine	84	Nogent sur Seine	FR								
	85	Le Vesinet	FR								
Channel	86	Paluel	FR								
	87	Penly	FR								
	88	Jobourg	FR								
	89	La Hague-Jardeheu	FR								
	90	Flamanville	FR								
Loire	91	Belleville sur Loire	FR								
	92	Dampierre en Burly	FR								
	93	Saint Laurent des Eaux	FR								
	94	Chinon (Candes-Aval)	FR								
	95	Angers (EDF)	FR								
Garonne	96	Golfech - St. Romain le Noble	FR	1	< RL	< RL			< RL	< RL	3
Atlantic Ocean	97	Arcachon	FR								
	98	Cabo Ajo	ES	8	< RL	< RL	< RL	< RL	< RL	< RL	3
	99	Brest	FR								
	100	Cabo Silleiro	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	8
	101	Isla Cristina	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	5
	102	Puerto de Cadiz	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	1
	103	Estrecho de Gibraltar	ES	3	< RL	< RL	< RL		< RL	< RL	7
	104	Puerto De Las Palmas	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	3
Mino	105	Lugo	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	4
	106	Orense	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	5
	107	Caldelas De Tuy	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	9
Duero	108	Garray	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	4
	109	Quintanilla	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	10
	110	Villalcampo	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	7
Tagus	111	Trillo Arriba	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	12
	112	Trillo Abajo	ES	13	< RL	< RL	< RL	< RL	< RL	< RL	6
	113	Zorita Arriba	ES	12	< RL	< RL	< RL	< RL	< RL	< RL	8
	114	Zorita Abajo	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	12
	115	Aranjuez	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	9
	116	Toledo	ES	4		< RL	< RL	< RL	< RL	< RL	4
	117	Talavera	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	9

RL: reporting level for ^{137}Cs In surface water, i.e. 1.0 BQ/L (see Appendix B)

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

Table S58: Time averages

DENSE

YEAR : 2018
SAMPLE TYPE : surface water (Bq l $^{-1}$)
NUCLIDE CATEGORY : caesium-137 (^{137}Cs)

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
Tagus	118	Valdecanas	ES	12	< RL	< RL	< RL	< RL	< RL	< RL	5
	119	Embalse de Torrejon	ES	16	< RL	< RL	< RL	< RL	< RL	< RL	12
	120	Embalse de Alcantara	ES	15	< RL	< RL	< RL	< RL	< RL	< RL	10
	121	Vila Velha de Rodao	PT								
	122	Valada Do Ribatejo	PT								
Guadiana	123	Balbuena	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	6
	124	Orellana	ES	2		< RL		< RL	< RL	< RL	12
	125	Puente Palmas	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	12
	126	San Lucar	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	12
Guadalquivir	127	Mengibar	ES	3	< RL	< RL	< RL		< RL	< RL	1
	128	Andujar Arriba	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	4
	129	Andujar Abajo	ES	10	< RL	< RL	< RL	< RL	< RL	< RL	2
	130	El Carpio	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	1
	131	Posadas	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	7
	132	Sevilla Rio	ES								
Jucar	133	Venta De Juan Romero	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	2
	134	Embalse De Alarcon	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	5
	135	Alcala Del Jucar	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	8
	136	Cofrentes Abajo	ES	11	< RL	< RL	< RL	< RL	< RL	< RL	9
Ebro	137	Garona Arriba	ES	9	< RL	< RL	< RL		< RL	< RL	8
	138	Garona Abajo	ES	23	< RL	< RL	< RL	< RL	< RL	< RL	9
	139	Mendavia	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	10
	140	Zaragoza-Rio	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	10
	141	Sastago	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	4
	142	Ribarroja	ES	12	< RL	< RL	< RL	< RL	< RL	< RL	1
	143	Asco Abajo	ES	27	< RL	< RL	< RL	< RL	< RL	< RL	5
	144	Garcia	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	11
	145	Cherta	ES								
Rhone	146	Creys-Malville (EDF)	FR								
	147	Le Bugey (Loyettes)	FR								
	148	Saint Alban	FR								
	149	Cruas (Aval)	FR	1	< RL	< RL			< RL	< RL	3
	150	Tricastin	FR								
	151	Roquemaure (Marcoule)	FR								
	152	Vallabregues	FR								
Po	153	Casale Monferrato	IT								

RL: reporting level for ^{137}Cs In surface water, i.e. 1.0 BQ/L (see Appendix B)

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

DENSE

Table S59: Time averages

YEAR : 2018
SAMPLE TYPE : surface water (Bq l $^{-1}$)
NUCLIDE CATEGORY : caesium-137 (^{137}Cs)

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
Mediterranean Sea	154	Garrucha	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	1
	155	Cabo de San Antonio	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	7
	156	Puerto de Palma	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	7
	157	Puerto de Tarragona	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	5
	158	Cabo de Creus	ES	8	< RL	< RL	< RL	< RL	< RL	< RL	1
	159	Santa Teresa Gallura	IT								
	160	Olbia	IT								
	161	Maratea	IT								
	162	Rotondella	IT								
	163	Xwejni	MT	5	< RL	< RL	< RL	< RL	< RL	< RL	1
	164	Lapsi	MT	4	< RL	< RL	< RL	< RL	< RL	< RL	4
	165	Wied Ghammieq	MT	3		< RL	< RL	< RL	< RL	< RL	11
	166	Polis	CY								
	167	Limassol	CY								
	168	Vasilikos	CY								
	169	Larnaca	CY								
	170	Paralimni	CY								
Maritsa	171	Kostenec	BG	1			< RL		< RL	< RL	7
	172	Plovdiv	BG								
	173	Mirovo	BG								
	174	Harmanli	BG								
	175	Svilengrad	BG								
Drau	176	Schwabegg	AT	25	< RL	< RL	< RL	< RL	< RL	< RL	10
	177	Dravograd	SI	2	< RL		< RL	< RL	< RL	< RL	2
Sava	178	Krsko	SI	4	< RL	< RL	< RL	< RL	< RL	< RL	9
Tisza	179	Tiszabecs	HU								
	180	Gergelyiugornya	HU								
	181	Zahony	HU								
	182	Tiszabercel	HU								
	183	Rakamaz	HU								
	184	Szolnok	HU								
	185	Mindszent	HU								
	186	Tiszasziget I	HU								
	187	Tiszasziget II	HU								

RL: reporting level for ^{137}Cs In surface water, i.e. 1.0 BQ/L (see Appendix B)

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

Table S60: Time averages

YEAR : 2018
SAMPLE TYPE : surface water (Bq l $^{-1}$)
NUCLIDE CATEGORY : caesium-137 (^{137}Cs)

DENSE

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
Danube	188	Vilshofen	DE	11	< RL	< RL	< RL	< RL	< RL	< RL	1
	189	Jochenstein	AT	16	< RL	< RL	< RL	< RL	< RL	< RL	11
	190	Wolfsthal	AT	12	< RL	< RL	< RL	< RL	< RL	< RL	1
	191	Rajka	HU								
	192	Szob	HU								
	193	Budapest - North I	HU								
	194	Budapest - North II	HU								
	195	Budapest - Danube	HU								
	196	Budapest - Budafok	HU								
	197	Nagyteteny	HU								
	198	Dunaujvaros	HU								
	199	Dunafoldvar II	HU								
	200	Dunafoldvar I	HU								
	201	Paks	HU								
	202	Kalocsa	HU								
	203	Gerjen	HU								
	204	Baja	HU								
	205	Mohacs	HU								
	206	Drobeta Turnu Severin	RO	12	< RL	< RL	< RL	< RL	< RL	< RL	11
	207	Novo Selo	BG								
	208	Ruse	BG								
	209	Bechet	RO	12	< RL	< RL	< RL	< RL	< RL	< RL	10
	210	Oriahovo	BG								
	211	Baykal	BG								
	212	Nikopol	BG								
	213	Belene	BG								
	214	Zimnicea	RO	12	< RL	< RL	< RL	< RL	< RL	< RL	3
	215	Svishtov	BG								
	216	Ruse	BG								
	217	Silistra	BG								
	218	Calarasi	RO	12	< RL	< RL	< RL	< RL	< RL	< RL	12
	219	Cernavoda*	RO	12	< RL	< RL	< RL	< RL	< RL	< RL	1
	220	Tulcea	RO	12	< RL	< RL	< RL	< RL	< RL	< RL	7
	221	Sfantu Gheorge Tulcea	RO	12	< RL	< RL	< RL	< RL	< RL	< RL	7
	222	Galati	RO	12	< RL	< RL	< RL	< RL	< RL	< RL	2
Lough Neagh	223	Lough Neagh	UK								
Sava	224	Zagreb	HR	4	< RL	< RL	< RL	< RL	< RL	< RL	8
Olt	225	Miercurea Ciuc	RO	12	< RL	< RL	< RL	< RL	< RL	< RL	6

RL: reporting level for ^{137}Cs In surface water, i.e. 1.0 BQ/L (see Appendix B)
*: sampling location downstream of a nuclear power plant

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

Table S61: Time averages

YEAR : 2019

SAMPLE TYPE : surface water (Bq l $^{-1}$)

NUCLIDE CATEGORY : caesium-137 (^{137}Cs)

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
Indalsaelven	1	Oestersund-Storsjoen	SE	2		< RL	< RL		< RL	< RL	9
Gulf Of Bothnia	2	Forsmark (F135)	SE	1			< RL		< RL	< RL	9
	3	Bottenhavet (C14)	SE	1			< RL		< RL	< RL	9
	4	Bottenviken (A5)	SE	1			< RL		< RL	< RL	9
Kemijoki	5	Kemi	FI	1				< RL	< RL	< RL	10
Oulujoki	6	Oulu	FI	1				< RL	< RL	< RL	10
Kokemaenjoki	7	Pori	FI	1				< RL	< RL	< RL	10
Kymijoki	8	Kotka	FI	1				< RL	< RL	< RL	10
Narva	9	Narva	EE	4	< RL	< RL	< RL	< RL	< RL	< RL	3
Gulf Of Finland	10	Gulf Of Finland, N8	EE	1		< RL			< RL	< RL	5
	11	Gulf Of Finland, EE17	EE	1		< RL			< RL	< RL	6
	12	Gulf Of Finland, PE	EE	1		< RL			< RL	< RL	5
	13	Gulf Of Finland, PW	EE	1		< RL			< RL	< RL	5
Daugava	14	Daugavpils	LV								
	15	Riga	LV								
	16	Drūkšiai Lake	LT	4		< RL	< RL		< RL	< RL	5
Neman	17	Neman above Druskininkai	LT	4	< RL	< RL	< RL	< RL	< RL	< RL	2
	18	Kauno Marios	LT	6		< RL	< RL	< RL	< RL	< RL	8
	19	Neris River Near Buivydžiai	LT	12	< RL	< RL	< RL	< RL	< RL	< RL	7
	20	Skirvytė River	LT	4	< RL	< RL	< RL	< RL	< RL	< RL	7
	21	Akmena-Danė River	LT	4	< RL	< RL	< RL	< RL	< RL	< RL	7
	22	Plateliai Lake	LT	2		< RL	< RL		< RL	< RL	7
	23	Šešupė River Transb (Russia)	LT	4	< RL	< RL	< RL	< RL	< RL	< RL	7
	24	Šventoji River Mouth	LT	4	< RL	< RL	< RL	< RL	< RL	< RL	5
Vistula	25	Krakow Tyniec	PL								
	26	Annopol	PL								
	27	Warsaw	PL								
	28	Plock	PL								
	29	Kiezmark	PL								
Baltic Sea	30	Baltic Sea LT64	LT	1			< RL		< RL	< RL	8
	31	Baltic Sea LT 20	LT	3		< RL	< RL		< RL	< RL	5
	32	Baltic Sea LT6	LT	3		< RL	< RL		< RL	< RL	8
	33	Curonian Lagoon LT10	LT	4	< RL	< RL	< RL	< RL	< RL	< RL	8
	34	Oskarshamn (S36)	SE	1			< RL		< RL	< RL	9
	35	Baltic Sea P-140	PL								
	36	Baltic Sea P-1	PL								
	37	Baltic Sea P-39	PL								
	38	Baltic Sea P-116	PL								
	39	Baltic Sea P-110	PL								
	40	Svenskehavn	DK								

RL: reporting level for ^{137}Cs In surface water, i.e. 1.0 BQ/L (see Appendix B)

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

Table S62: Time averages

DENSE

YEAR : 2019

SAMPLE TYPE : surface water (Bq l $^{-1}$)

NUCLIDE CATEGORY : caesium-137 (^{137}Cs)

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
Baltic Sea	41	Moen	DK	1		< RL			< RL	< RL	6
	42	Gedser Odde	DK								
	43	Luebeck Bay	DE								
	44	Femern Baelt	DK	1		< RL			< RL	< RL	6
	45	Langeland Baelt	DK	1		< RL			< RL	< RL	6
Oder	46	Bohumin	CZ								
	47	Chalupki	PL								
	48	Wroclaw	PL								
	49	Krajnik	PL								
The Great Belt	50	Halskov Rev	DK	1		< RL			< RL	< RL	6
	51	Asnaes Rev	DK	1		< RL			< RL	< RL	6
The Sound	52	The Sound S	DK	1		< RL			< RL	< RL	6
	53	The Sound N(A)	DK	1		< RL			< RL	< RL	6
Kattegat	54	Kattegat-413	DK	1		< RL			< RL	< RL	6
	55	Ringhals (35)	SE	2		< RL		< RL	< RL	< RL	4
Skagerrak	56	Fjaellbacka	SE	2		< RL	< RL		< RL	< RL	4
Elbe	57	Hrensko	CZ								
	58	Geesthacht	DE								
	59	Wedel	DE								
	60	Cuxhaven	DE								
Rhine	61	Weil am Rhein	DE	1	< RL				< RL	< RL	1
	62	Breisach am Rhein	DE								
	63	Lauterbourg	FR								
	64	Worms	DE								
	65	Koblenz	DE								
	66	Trebur	DE								
Moselle	67	Cattenom (Aval)	FR								
	68	Schengen	LU								
	69	Wincheringen	DE								
Meuse	70	Chooz (Givet)	FR								
	71	Heer-Agimont	BE	28	< RL	< RL	< RL	< RL	< RL	< RL	10
	72	Andenne	BE	28	< RL	< RL	< RL	< RL	< RL	< RL	10
	73	Huy	BE	28	< RL	< RL	< RL	< RL	< RL	< RL	10
	74	Ampsin	BE								
	75	Monsin	BE								
	76	Lixhe	BE	2				< RL	< RL	< RL	12
	77	Eijsden	NL								
Molse Nete	78	Geel	BE	28	< RL	< RL	< RL	< RL	< RL	< RL	4
Scheldt	79	Doel	BE	28	< RL	< RL	< RL	< RL	< RL	< RL	1

RL: reporting level for ^{137}Cs In surface water, i.e. 1.0 BQ/L (see Appendix B)

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

DENSE

Table S63: Time averages

YEAR : 2019
SAMPLE TYPE : surface water (Bq l $^{-1}$)
NUCLIDE CATEGORY : caesium-137 (^{137}Cs)

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
North Sea	80	Terschelling, 100 km from coast	NL								
	81	Noordwijk, 70 km from coast	NL								
	82	Noordwijk, 10 km from coast	NL								
	83	Gravelines (EDF)	FR								
Seine	84	Nogent sur Seine	FR								
	85	Le Vesinet	FR								
Channel	86	Paluel	FR								
	87	Penly	FR								
	88	Jobourg	FR								
	89	La Hague-Jardeheu	FR								
	90	Flamanville	FR								
Loire	91	Belleville sur Loire	FR								
	92	Dampierre en Burly	FR								
	93	Saint Laurent des Eaux	FR								
	94	Chinon (Candes-Aval)	FR								
	95	Angers (EDF)	FR								
Garonne	96	Golfech - St. Romain le Noble	FR								
Atlantic Ocean	97	Arcachon	FR								
	98	Cabo Ajo	ES	*9*	*< RL*	*< RL*		*< RL*	*< RL*	< RL	*5*
	99	Brest	FR								
	100	Cabo Silleiro	ES	*4*	*< RL*	*< RL*	*< RL*	*< RL*	*< RL*	< RL	*2*
	101	Isla Cristina	ES	*4*	*< RL*		*< RL*	*< RL*	*< RL*	< RL	*3*
	102	Puerto de Cadiz	ES	*4*	*< RL*	*< RL*	*< RL*	*< RL*	*< RL*	< RL	*6*
	103	Estrecho de Gibraltar	ES	*4*	*< RL*	*< RL*	*< RL*	*< RL*	*< RL*	< RL	*2*
	104	Puerto De Las Palmas	ES								
Mino	105	Lugo	ES	*4*	*< RL*	*< RL*	*< RL*	*< RL*	*< RL*	< RL	*1*
	106	Orense	ES	*4*	*< RL*	*< RL*	*< RL*	*< RL*	*< RL*	< RL	*2*
	107	Caldelas De Tuy	ES	*4*	*< RL*	*< RL*	*< RL*	*< RL*	*< RL*	< RL	*4*
Duero	108	Garray	ES	*4*	*< RL*	*< RL*	*< RL*	*< RL*	*< RL*	< RL	*4*
	109	Quintanilla	ES	*4*	*< RL*	*< RL*	*< RL*	*< RL*	*< RL*	< RL	*7*
	110	Villalcampo	ES	*4*	*< RL*	*< RL*	*< RL*	*< RL*	*< RL*	< RL	*10*
Tagus	111	Trillo Arriba	ES	*4*	*< RL*	*< RL*	*< RL*	*< RL*	*< RL*	< RL	*3*
	112	Trillo Abajo	ES	*14*	*< RL*	*< RL*	*< RL*	*< RL*	*< RL*	< RL	*9*
	113	Zorita Arriba	ES	*12*	*< RL*	*< RL*	*< RL*	*< RL*	*< RL*	< RL	*2*
	114	Zorita Abajo	ES	*4*	*< RL*	*< RL*	*< RL*	*< RL*	*< RL*	< RL	*12*
	115	Aranjuez	ES	*4*	*< RL*	*< RL*	*< RL*	*< RL*	*< RL*	< RL	*9*
	116	Toledo	ES	*4*	*< RL*	*< RL*	*< RL*	*< RL*	*< RL*	< RL	*9*
	117	Talavera	ES	*4*	*< RL*	*< RL*	*< RL*	*< RL*	*< RL*	< RL	*3*

RL: reporting level for ^{137}Cs In surface water, i.e. 1.0 BQ/L (see Appendix B)

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

Table S64: Time averages

YEAR : 2019

SAMPLE TYPE : surface water (Bq l $^{-1}$)

NUCLIDE CATEGORY : caesium-137 (^{137}Cs)

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
Tagus	118	Valdecanas	ES	12	< RL	< RL	< RL	< RL	< RL	< RL	8
	119	Embalse de Torrejon	ES	12	< RL	< RL	< RL	< RL	< RL	< RL	3
	120	Embalse de Alcantara	ES	16	< RL	< RL	< RL	< RL	< RL	< RL	1
	121	Vila Velha de Rodao	PT								
	122	Valada Do Ribatejo	PT								
Guadiana	123	Balbuena	ES	3	< RL	< RL	< RL		< RL	< RL	3
	124	Orellana	ES	3	< RL	< RL	< RL		< RL	< RL	3
	125	Puente Palmas	ES	3	< RL	< RL		< RL	< RL	< RL	10
	126	San Lucar	ES	3	< RL	< RL		< RL	< RL	< RL	3
Guadalquivir	127	Mengibar	ES								
	128	Andujar Arriba	ES								
	129	Andujar Abajo	ES								
	130	El Carpio	ES								
	131	Posadas	ES								
	132	Sevilla Rio	ES								
Jucar	133	Venta De Juan Romero	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	11
	134	Embalse De Alarcon	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	5
	135	Alcala Del Jucar	ES	3	< RL	< RL		< RL	< RL	< RL	11
	136	Cofrentes Abajo	ES	12	< RL	< RL	< RL	< RL	< RL	< RL	1
Ebro	137	Garona Arriba	ES								
	138	Garona Abajo	ES								
	139	Mendavia	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	1
	140	Zaragoza-Rio	ES								
	141	Sastago	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	7
	142	Ribarroja	ES	12	< RL	< RL	< RL	< RL	< RL	< RL	1
	143	Asco Abajo	ES	27	< RL	< RL	< RL	< RL	< RL	< RL	1
	144	Garcia	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	3
	145	Cherta	ES								
Rhone	146	Creys-Malville (EDF)	FR								
	147	Le Bugey (Loyettes)	FR								
	148	Saint Alban	FR								
	149	Cruas (Aval)	FR								
	150	Tricastin	FR								
	151	Roquemaure (Marcoule)	FR								
	152	Vallabregues	FR								
Po	153	Casale Monferrato	IT								

RL: reporting level for ^{137}Cs In surface water, i.e. 1.0 BQ/L (see Appendix B)

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

DENSE

Table S65: Time averages

YEAR : 2019

SAMPLE TYPE : surface water (Bq l $^{-1}$)

NUCLIDE CATEGORY : caesium-137 (^{137}Cs)

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
Mediterranean Sea	154	Garrucha	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	7
	155	Cabo de San Antonio	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	2
	156	Puerto de Palma	ES	4	< RL		< RL	< RL	< RL	< RL	8
	157	Puerto de Tarragona	ES	3	< RL	< RL	< RL		< RL	< RL	2
	158	Cabo de Creus	ES	8	< RL	< RL	< RL	< RL	< RL	< RL	8
	159	Santa Teresa Gallura	IT								
	160	Olbia	IT								
	161	Maratea	IT								
	162	Rotondella	IT								
	163	Xwejni	MT	8	< RL	< RL	< RL	< RL	< RL	< RL	2
	164	Lapsi	MT	8	< RL	< RL	< RL	< RL	< RL	< RL	9
	165	Wied Ghammieq	MT	8	< RL	< RL	< RL	< RL	< RL	< RL	6
	166	Polis	CY								
	167	Limassol	CY								
	168	Vasilikos	CY								
	169	Larnaca	CY								
	170	Paralimni	CY								
Maritsa	171	Kostenec	BG								
	172	Plovdiv	BG								
	173	Mirovo	BG								
	174	Harmanli	BG								
	175	Svilengrad	BG								
Drau	176	Schwabegg	AT	25	< RL	< RL	< RL	< RL	< RL	< RL	4
	177	Dravograd	SI								
Sava	178	Krsko	SI								
Tisza	179	Tiszabecs	HU								
	180	Gergelyiugornya	HU								
	181	Zahony	HU								
	182	Tiszabercel	HU								
	183	Rakamaz	HU								
	184	Szolnok	HU								
	185	Mindszent	HU								
	186	Tiszasziget I	HU								
	187	Tiszasziget II	HU								

RL: reporting level for ^{137}Cs In surface water, i.e. 1.0 BQ/L (see Appendix B)

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

Table S66: **Time averages**

YEAR : **2019**
SAMPLE TYPE : **surface water (Bq l $^{-1}$)**
NUCLIDE CATEGORY : **caesium-137 (^{137}Cs)**

DENSE

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
Danube	188	Vilshofen	DE								
	189	Jochenstein	AT	16	< RL	< RL	< RL	< RL	< RL	< RL	6
	190	Wolfsthal	AT	12	< RL	< RL	< RL	< RL	< RL	< RL	6
	191	Rajka	HU								
	192	Szob	HU								
	193	Budapest - North I	HU								
	194	Budapest - North II	HU								
	195	Budapest - Danube	HU								
	196	Budapest - Budafok	HU								
	197	Nagyteteny	HU								
	198	Dunaujvaros	HU								
	199	Dunafoldvar II	HU								
	200	Dunafoldvar I	HU								
	201	Paks	HU								
	202	Kalocsa	HU								
	203	Gerjen	HU								
	204	Baja	HU								
	205	Mohacs	HU								
	206	Drobeta Turnu Severin	RO	12	< RL	< RL	< RL	< RL	< RL	< RL	5
	207	Novo Selo	BG								
	208	Ruse	BG								
	209	Bechet	RO	12	< RL	< RL	< RL	< RL	< RL	< RL	7
	210	Oriahovo	BG								
	211	Baykal	BG								
	212	Nikopol	BG								
	213	Belene	BG								
	214	Zimnicea	RO	12	< RL	< RL	< RL	< RL	< RL	< RL	12
	215	Svishtov	BG								
	216	Ruse	BG								
	217	Silistra	BG								
	218	Calarasi	RO	12	< RL	< RL	< RL	< RL	< RL	< RL	12
	219	Cernavoda*	RO	12	< RL	< RL	< RL	< RL	< RL	< RL	6
	220	Tulcea	RO	12	< RL	< RL	< RL	< RL	< RL	< RL	12
	221	Sfantu Gheorge Tulcea	RO	12	< RL	< RL	< RL	< RL	< RL	< RL	11
	222	Galati	RO	12	< RL	< RL	< RL	< RL	< RL	< RL	5
Lough Neagh	223	Lough Neagh	UK								
Sava	224	Zagreb	HR	4	< RL	< RL		< RL	< RL	< RL	12
Olt	225	Miercurea Ciuc	RO	12	< RL	< RL	< RL	< RL	< RL	< RL	12

RL: reporting level for ^{137}Cs In surface water, i.e. 1.0 BQ/L (see Appendix B)
*: sampling location downstream of a nuclear power plant

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

DENSE

Table S67: Time averages

YEAR : 2020
SAMPLE TYPE : surface water (Bq l $^{-1}$)
NUCLIDE CATEGORY : caesium-137 (^{137}Cs)

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
Indalsaelven	1	Oestersund-Storsjoen	SE	2		< RL	< RL		< RL	< RL	5
Gulf Of Bothnia	2	Forsmark (F135)	SE	1				< RL	< RL	< RL	10
	3	Bottenhavet (C14)	SE								
	4	Bottenviken (A5)	SE	1			< RL		< RL	< RL	9
Kemijoki	5	Kemi	FI	1		< RL			< RL	< RL	5
Oulujoki	6	Oulu	FI	1		< RL			< RL	< RL	5
Kokemaenjoki	7	Pori	FI	1		< RL			< RL	< RL	5
Kymijoki	8	Kotka	FI	1		< RL			< RL	< RL	4
Narva	9	Narva	EE	4	< RL	< RL	< RL	< RL	< RL	< RL	3
Gulf Of Finland	10	Gulf Of Finland, N8	EE	1		< RL			< RL	< RL	6
	11	Gulf Of Finland, EE17	EE	1		< RL			< RL	< RL	6
	12	Gulf Of Finland, PE	EE	1		< RL			< RL	< RL	6
	13	Gulf Of Finland, PW	EE	1		< RL			< RL	< RL	6
Daugava	14	Daugavpils	LV								
	15	Riga	LV								
	16	Drūkšiai Lake	LT	4		< RL	< RL	< RL	< RL	< RL	5
Neman	17	Neman above Druskininkai	LT	4	< RL	< RL	< RL	< RL	< RL	< RL	5
	18	Kauno Marios	LT	6		< RL	< RL	< RL	< RL	< RL	4
	19	Neris River Near Buivydžiai	LT	12	< RL	< RL	< RL	< RL	< RL	< RL	2
	20	Skirvytė River	LT	4	< RL	< RL	< RL	< RL	< RL	< RL	5
	21	Akmena-Danė River	LT	4	< RL	< RL	< RL	< RL	< RL	< RL	7
	22	Plateliai Lake	LT	2		< RL	< RL		< RL	< RL	4
	23	Šešupė River Transb (Russia)	LT	4	< RL	< RL	< RL	< RL	< RL	< RL	2
	24	Šventoji River Mouth	LT	4	< RL	< RL	< RL	< RL	< RL	< RL	7
Vistula	25	Krakow Tyniec	PL								
	26	Annopol	PL								
	27	Warsaw	PL								
	28	Plock	PL								
	29	Kiezmark	PL								
Baltic Sea	30	Baltic Sea LT64	LT	1			< RL		< RL	< RL	8
	31	Baltic Sea LT 20	LT	3		< RL	< RL	< RL	< RL	< RL	8
	32	Baltic Sea LT6	LT	3		< RL	< RL	< RL	< RL	< RL	5
	33	Curonian Lagoon LT10	LT	3	< RL	< RL	< RL		< RL	< RL	2
	34	Oskarshamn (S36)	SE	1			< RL		< RL	< RL	9
	35	Baltic Sea P-140	PL								
	36	Baltic Sea P-1	PL								
	37	Baltic Sea P-39	PL								
	38	Baltic Sea P-116	PL								
	39	Baltic Sea P-110	PL								
	40	Svenskehavn	DK								

RL: reporting level for ^{137}Cs In surface water, i.e. 1.0 BQ/L (see Appendix B)

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

Table S68: Time averages

YEAR : 2020
SAMPLE TYPE : surface water (Bq l $^{-1}$)
NUCLIDE CATEGORY : caesium-137 (^{137}Cs)

DENSE

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
Baltic Sea	41	Moen	DK	1			< RL		< RL	< RL	9
	42	Gedser Odde	DK								
	43	Luebeck Bay	DE								
	44	Femern Baelt	DK								
	45	Langeland Baelt	DK	1			< RL		< RL	< RL	9
Oder	46	Bohumin	CZ	4	< RL	< RL	< RL	< RL	< RL	< RL	5
	47	Chalupki	PL								
	48	Wroclaw	PL								
	49	Krajnik	PL								
The Great Belt	50	Halskov Rev	DK	2			< RL		< RL	< RL	9
	51	Asnaes Rev	DK	1			< RL		< RL	< RL	9
The Sound	52	The Sound S	DK	1			< RL		< RL	< RL	9
	53	The Sound N(A)	DK								
Kattegat	54	Kattegat-413	DK								
	55	Ringhals (35)	SE	2		< RL	< RL		< RL	< RL	6
Skagerrak	56	Fjaellbacka	SE	2		< RL	< RL		< RL	< RL	4
Elbe	57	Hrensko	CZ								
	58	Geesthacht	DE								
	59	Wedel	DE								
	60	Cuxhaven	DE								
Rhine	61	Weil am Rhein	DE								
	62	Breisach am Rhein	DE								
	63	Lauterbourg	FR								
	64	Worms	DE								
	65	Koblenz	DE								
	66	Trebur	DE								
Moselle	67	Cattenom (Aval)	FR								
	68	Schengen	LU	42	< RL	< RL	< RL	< RL	< RL	< RL	9
	69	Wincheringen	DE								
Meuse	70	Chooz (Givet)	FR								
	71	Heer-Agimont	BE	52	< RL	< RL	< RL	< RL	< RL	< RL	7
	72	Andenne	BE	52	< RL	< RL	< RL	< RL	< RL	< RL	9
	73	Huy	BE	52	< RL	< RL	< RL	< RL	< RL	< RL	9
	74	Ampsin	BE								
	75	Monsin	BE								
	76	Lixhe	BE	52	< RL	< RL	< RL	< RL	< RL	< RL	6
	77	Eijsden	NL								
Molse Nete	78	Geel	BE	52	< RL	< RL	< RL	< RL	< RL	< RL	2
Scheldt	79	Doel	BE	52	< RL	< RL	< RL	< RL	< RL	< RL	5

RL: reporting level for ^{137}Cs In surface water, i.e. 1.0 BQ/L (see Appendix B)

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

DENSE

Table S69: Time averages

YEAR	:	**2020**
SAMPLE TYPE	:	**surface water (Bq l $^{-1}$)**
NUCLIDE CATEGORY	:	**caesium-137 (^{137}Cs)**

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
North Sea	80	Terschelling, 100 km from coast	NL								
	81	Noordwijk, 70 km from coast	NL								
	82	Noordwijk, 10 km from coast	NL								
	83	Gravelines (EDF)	FR								
Seine	84	Nogent sur Seine	FR								
	85	Le Vesinet	FR								
Channel	86	Paluel	FR								
	87	Penly	FR								
	88	Jobourg	FR								
	89	La Hague-Jardeheu	FR								
	90	Flamanville	FR								
Loire	91	Belleville sur Loire	FR								
	92	Dampierre en Burly	FR								
	93	Saint Laurent des Eaux	FR								
	94	Chinon (Candes-Aval)	FR								
	95	Angers (EDF)	FR								
Garonne	96	Golfech - St. Romain le Noble	FR								
Atlantic Ocean	97	Arcachon	FR								
	98	Cabo Ajo	ES	6	< RL		< RL	< RL	< RL	< RL	8
	99	Brest	FR								
	100	Cabo Silleiro	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	6
	101	Isla Cristina	ES	1	< RL				< RL	< RL	1
	102	Puerto de Cadiz	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	12
	103	Estrecho de Gibraltar	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	6
	104	Puerto De Las Palmas	ES	2	< RL		< RL		< RL	< RL	1
Mino	105	Lugo	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	4
	106	Orense	ES	3	< RL		< RL	< RL	< RL	< RL	1
	107	Caldelas De Tuy	ES	3	< RL		< RL	< RL	< RL	< RL	1
Duero	108	Garray	ES	3	< RL		< RL	< RL	< RL	< RL	2
	109	Quintanilla	ES	3	< RL		< RL	< RL	< RL	< RL	2
	110	Villalcampo	ES	3	< RL		< RL	< RL	< RL	< RL	7
Tagus	111	Trillo Arriba	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	6
	112	Trillo Abajo	ES	13	< RL	< RL	< RL	< RL	< RL	< RL	8
	113	Zorita Arriba	ES	12	< RL	< RL	< RL	< RL	< RL	< RL	2
	114	Zorita Abajo	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	6
	115	Aranjuez	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	3
	116	Toledo	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	9
	117	Talavera	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	3

RL: reporting level for ^{137}Cs In surface water, i.e. 1.0 BQ/L (see Appendix B)

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

Table S70: Time averages

YEAR : 2020

SAMPLE TYPE : surface water (Bq l^{-1})

NUCLIDE CATEGORY : caesium-137 (^{137}Cs)

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
Tagus	118	Valdecanas	ES	9	< RL		< RL	< RL	< RL	< RL	2
	119	Embalse de Torrejon	ES	12	< RL	< RL	< RL	< RL	< RL	< RL	6
	120	Embalse de Alcantara	ES	12	< RL	< RL	< RL	< RL	< RL	< RL	11
	121	Vila Velha de Rodao	PT								
	122	Valada Do Ribatejo	PT								
Guadiana	123	Balbuena	ES	1		< RL			< RL	< RL	6
	124	Orellana	ES	1		< RL			< RL	< RL	6
	125	Puente Palmas	ES	2	< RL				< RL	< RL	3
	126	San Lucar	ES								
Guadalquivir	127	Mengibar	ES	4		< RL	< RL	< RL	< RL	< RL	4
	128	Andujar Arriba	ES	2			< RL	< RL	< RL	< RL	10
	129	Andujar Abajo	ES	1		< RL			< RL	< RL	4
	130	El Carpio	ES	2			< RL	< RL	< RL	< RL	10
	131	Posadas	ES	3		< RL	< RL	< RL	< RL	< RL	4
	132	Sevilla Rio	ES								
Jucar	133	Venta De Juan Romero	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	8
	134	Embalse De Alarcon	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	5
	135	Alcala Del Jucar	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	11
	136	Cofrentes Abajo	ES	12	< RL	< RL	< RL	< RL	< RL	< RL	9
Ebro	137	Garona Arriba	ES								
	138	Garona Abajo	ES								
	139	Mendavia	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	1
	140	Zaragoza-Rio	ES								
	141	Sastago	ES	3	< RL		< RL	< RL	< RL	< RL	7
	142	Ribarroja	ES	10	< RL	< RL	< RL	< RL	< RL	< RL	8
	143	Asco Abajo	ES	21	< RL	< RL	< RL	< RL	< RL	< RL	2
	144	Garcia	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	9
	145	Cherta	ES								
Rhone	146	Creys-Malville (EDF)	FR								
	147	Le Bugey (Loyettes)	FR								
	148	Saint Alban	FR								
	149	Cruas (Aval)	FR								
	150	Tricastin	FR								
	151	Roquemaure (Marcoule)	FR								
	152	Vallabregues	FR								
Po	153	Casale Monferrato	IT								

RL: reporting level for ^{137}Cs In surface water, i.e. 1.0 BQ/L (see Appendix B)

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

Table S71: Time averages

YEAR : **2020**

SAMPLE TYPE : **surface water (Bq l $^{-1}$)**

NUCLIDE CATEGORY : **caesium-137 (^{137}Cs)**

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
Mediterranean Sea	154	Garrucha	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	12
	155	Cabo de San Antonio	ES	3	< RL	< RL	< RL		< RL	< RL	6
	156	Puerto de Palma	ES	3	< RL		< RL	< RL	< RL	< RL	10
	157	Puerto de Tarragona	ES	4	< RL	< RL	< RL	< RL	< RL	< RL	9
	158	Cabo de Creus	ES	8	< RL	< RL	< RL	< RL	< RL	< RL	9
	159	Santa Teresa Gallura	IT								
	160	Olbia	IT								
	161	Maratea	IT								
	162	Rotondella	IT								
	163	Xwejni	MT	4	< RL	< RL	< RL	< RL	< RL	< RL	6
	164	Lapsi	MT	4	< RL	< RL	< RL	< RL	< RL	< RL	9
	165	Wied Ghammieq	MT	4	< RL	< RL	< RL	< RL	< RL	< RL	10
	166	Polis	CY								
	167	Limassol	CY								
	168	Vasilikos	CY								
	169	Larnaca	CY								
	170	Paralimni	CY								
Maritsa	171	Kostenec	BG								
	172	Plovdiv	BG								
	173	Mirovo	BG								
	174	Harmanli	BG								
	175	Svilengrad	BG								
Drau	176	Schwabegg	AT	25	< RL	< RL	< RL	< RL	< RL	< RL	8
	177	Dravograd	SI								
Sava	178	Krsko	SI								
Tisza	179	Tiszabecs	HU								
	180	Gergelyiugornya	HU								
	181	Zahony	HU								
	182	Tiszabercel	HU								
	183	Rakamaz	HU								
	184	Szolnok	HU								
	185	Mindszent	HU								
	186	Tiszasziget I	HU								
	187	Tiszasziget II	HU								

RL: reporting level for ^{137}Cs In surface water, i.e. 1.0 BQ/L (see Appendix B)

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

Table S72: Time averages

YEAR	:	**2020**
SAMPLE TYPE	:	**surface water (Bq l $^{-1}$)**
NUCLIDE CATEGORY	:	**caesium-137 (^{137}Cs)**

Catchment		Locality		N	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual avg.	Monthly max	M
Danube	188	Vilshofen	DE								
	189	Jochenstein	AT	15	< RL	< RL	< RL	< RL	< RL	< RL	8
	190	Wolfsthal	AT	12	< RL	< RL	< RL	< RL	< RL	< RL	8
	191	Rajka	HU								
	192	Szob	HU								
	193	Budapest - North I	HU								
	194	Budapest - North II	HU								
	195	Budapest - Danube	HU								
	196	Budapest - Budafok	HU								
	197	Nagyteteny	HU								
	198	Dunaujvaros	HU								
	199	Dunafoldvar II	HU								
	200	Dunafoldvar I	HU								
	201	Paks	HU								
	202	Kalocsa	HU								
	203	Gerjen	HU								
	204	Baja	HU								
	205	Mohacs	HU								
	206	Drobeta Turnu Severin	RO	12	< RL	< RL	< RL	< RL	< RL	< RL	1
	207	Novo Selo	BG								
	208	Ruse	BG								
	209	Bechet	RO	12	< RL	< RL	< RL	< RL	< RL	< RL	8
	210	Oriahovo	BG								
	211	Baykal	BG								
	212	Nikopol	BG								
	213	Belene	BG								
	214	Zimnicea	RO	12	< RL	< RL	< RL	< RL	< RL	< RL	4
	215	Svishtov	BG								
	216	Ruse	BG								
	217	Silistra	BG								
	218	Calarasi	RO	12	< RL	< RL	< RL	< RL	< RL	< RL	11
	219	Cernavoda*	RO	10	< RL	< RL	< RL	< RL	< RL	< RL	3
	220	Tulcea	RO	12	< RL	< RL	< RL	< RL	< RL	< RL	7
	221	Sfantu Gheorge Tulcea	RO	12	< RL	< RL	< RL	< RL	< RL	< RL	2
	222	Galati	RO	12	< RL	< RL	< RL	< RL	< RL	< RL	5
Lough Neagh	223	Lough Neagh	UK								
Sava	224	Zagreb	HR	4	< RL	< RL	< RL	< RL	< RL	< RL	3
Olt	225	Miercurea Ciuc	RO	12	< RL	< RL	< RL	< RL	< RL	< RL	5

RL: reporting level for ^{137}Cs In surface water, i.e. 1.0 BQ/L (see Appendix B)
*: sampling location downstream of a nuclear power plant

N: Number of measurements considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

DENSE

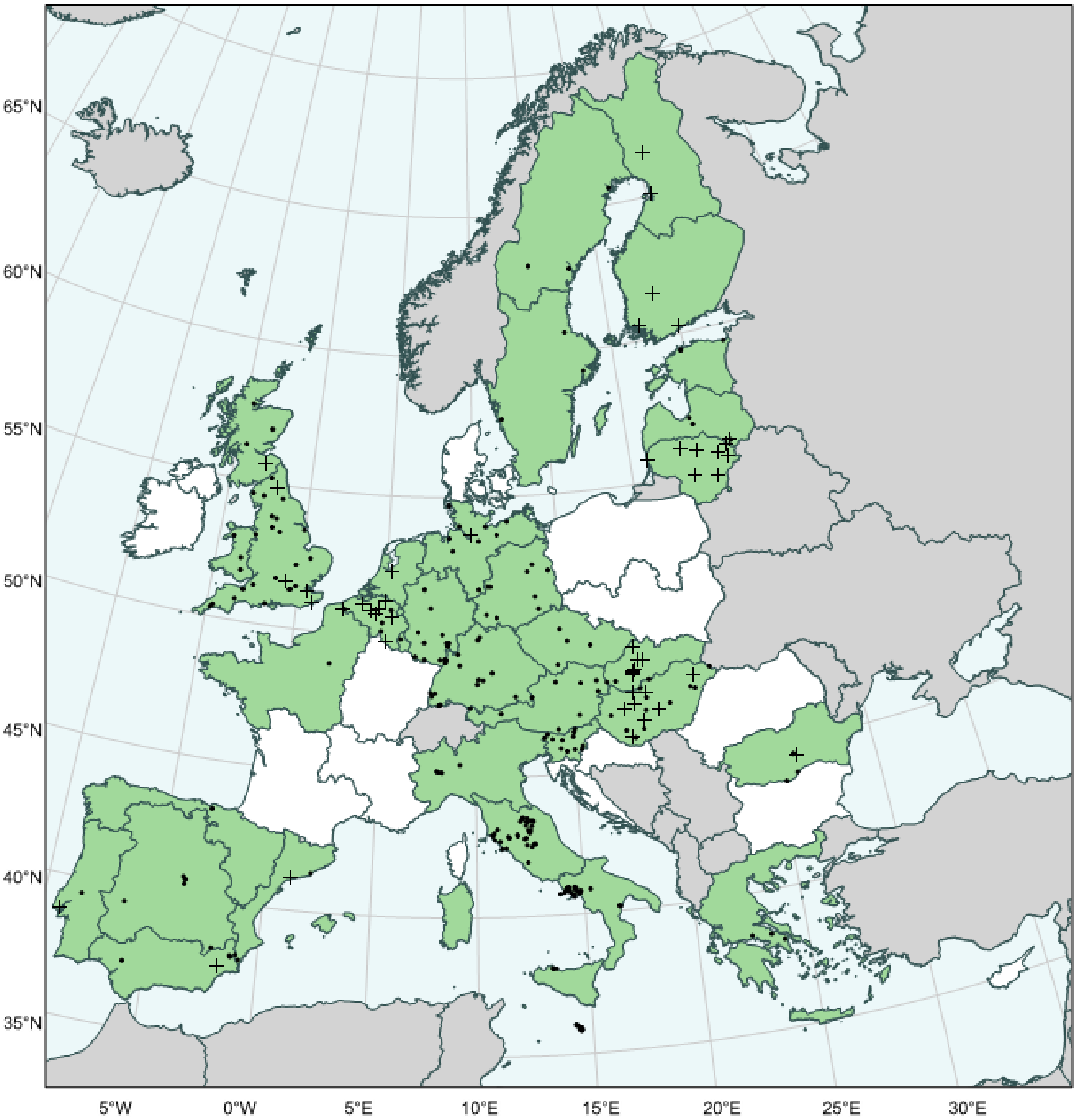
Fig. W1: Geographical and time averages

YEAR	:	**2015**
SAMPLE TYPE	:	**drinking water (Bq l^{-1})**
NUCLIDE CATEGORY	:	**tritium (^{3}H)**

EU (no relevant data reported)	annual avg. < 100 Bq l^{-1}
EU (only relevant constraint values above the reporting level reported)	100 Bq l^{-1} <= annual avg. < 300 Bq l^{-1}
	300 Bq l^{-1} <= annual avg. < 1000 Bq l^{-1}
Outside EU (in 2015)	1000 Bq l^{-1} <= annual avg.

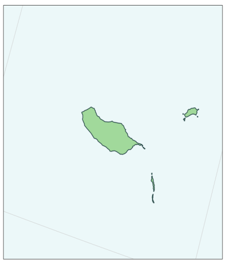
. sample location (Coordinate Accuracy = Precise or Not Specified)

\+ regional average (Coordinate Accuracy = Reference Point of Region)

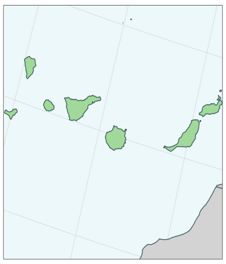


Azores (Portugal)

Madeira (Portugal)



Canary Islands (Spain)



Malta

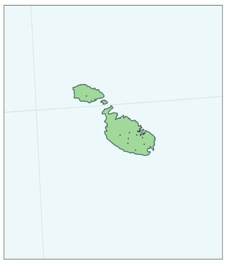


Table W1: Geographical and time averages

YEAR : 2015
SAMPLE TYPE : drinking water (Bq l $^{-1}$)
NUCLIDE CATEGORY : tritium (^{3}H)

Country	N	L	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual average	Monthly max	M
AT	117	9	< RL	< RL	< RL	< RL	< RL	< RL	12
BE	48	12	< RL	< RL	< RL	< RL	< RL	< RL	11
BG									
CY									
CZ	22	4	< RL	< RL	< RL	< RL	< RL	< RL	1
DE-N	38	10	< RL	< RL	< RL	< RL	< RL	< RL	1
DE-C	25	12	< RL	< RL	< RL	< RL	< RL	< RL	8
DE-S	77	18	< RL	< RL	< RL	< RL	< RL	< RL	6
DE-E	24	9	< RL	< RL	< RL	< RL	< RL	< RL	3
DE	164	49	< RL	< RL	< RL	< RL	< RL	< RL	6
DK									
EE	6	3	< RL	< RL		< RL	< RL	< RL	3
ES-N	12	1	< RL	< RL	< RL	< RL	< RL	< RL	8
ES-C	37	6	< RL	< RL	< RL	< RL	< RL	< RL	10
ES-S	40	6	< RL	< RL	< RL	< RL	< RL	< RL	3
ES-E	45	3	< RL	< RL	< RL	< RL	< RL	< RL	9
ES	134	16	< RL	< RL	< RL	< RL	< RL	< RL	9
FI-N	4	2		< RL		< RL	< RL	< RL	10
FI-S	6	3		< RL		< RL	< RL	< RL	4
FI	10	5		< RL		< RL	< RL	< RL	4
FR-NW	5	1	< RL	< RL			< RL	< RL	2
FR-NE									
FR-SW									
FR-SE									
FR	5	1	< RL	< RL			< RL	< RL	2
GB-EN	110	25	< RL	< RL	< RL	< RL	< RL	< RL	9
GB-WL	15	4	< RL	< RL	< RL	< RL	< RL	< RL	9
GB-SC	23	4	< RL	< RL	< RL	< RL	< RL	< RL	1
GB-NI									
GB	148	33	< RL	< RL	< RL	< RL	< RL	< RL	9
GR	3	3		< RL	< RL		< RL	< RL	6
HR-A									
HR-C									
HR									
HU	65	20	< RL	< RL	< RL	< RL	< RL	< RL	5
IE									
IT-N	30	6	< RL	< RL	< RL	< RL	< RL	< RL	2
IT-C	36	34	< RL	< RL	< RL	< RL	< RL	< RL	11
IT-S	120	40	< RL	< RL	< RL	< RL	< RL	< RL	6
IT	186	80	< RL	< RL	< RL	< RL	< RL	< RL	2
LT	80	8	< RL	< RL	< RL	< RL	< RL	< RL	4
LU	6	1	< RL	< RL	< RL	< RL	< RL	< RL	3
LV	16	4	< RL	< RL	< RL	< RL	< RL	< RL	3
MT	14	13	< RL	< RL	< RL	< RL	< RL	< RL	11
NL	12	1	< RL	< RL	< RL	< RL	< RL	< RL	1
PL-N									
PL-S									
PL									
PT	24	2	< RL	< RL	< RL	< RL	< RL	< RL	11
RO-N									
RO-S	72	4		< RL		< RL	< RL	< RL	6
RO	72	4		< RL		< RL	< RL	< RL	6
SE-N	6	3	< RL	< RL	< RL		< RL	< RL	3
SE-S	6	3	< RL		< RL	< RL	< RL	< RL	9
SE	12	6	< RL	< RL	< RL	< RL	< RL	< RL	3
SI	15	12	< RL	< RL	< RL	< RL	< RL	< RL	10
SK	81	9	< RL	< RL	< RL	< RL	< RL	< RL	6

RL: reporting level for ^{3}H In drinking water, i.e. 1.0 E+02 BQ/L (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
L: Number of sampling locations considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

DENSE

Fig. W2: Geographical and time averages

YEAR	:	2016
SAMPLE TYPE	:	drinking water (Bq l^{-1})
NUCLIDE CATEGORY	:	tritium (^{3}H)

EU (no relevant data reported)
EU (only relevant constraint values above the reporting level reported)
Outside EU (in 2016)

		annual avg.	<	100	Bq l^{-1}
100 Bq l^{-1}	<=	annual avg.	<	300	Bq l^{-1}
300 Bq l^{-1}	<=	annual avg.	<	1000	Bq l^{-1}
1000 Bq l^{-1}	<=	annual avg.			

. sample location (Coordinate Accuracy = Precise or Not Specified)
\+ regional average (Coordinate Accuracy = Reference Point of Region)

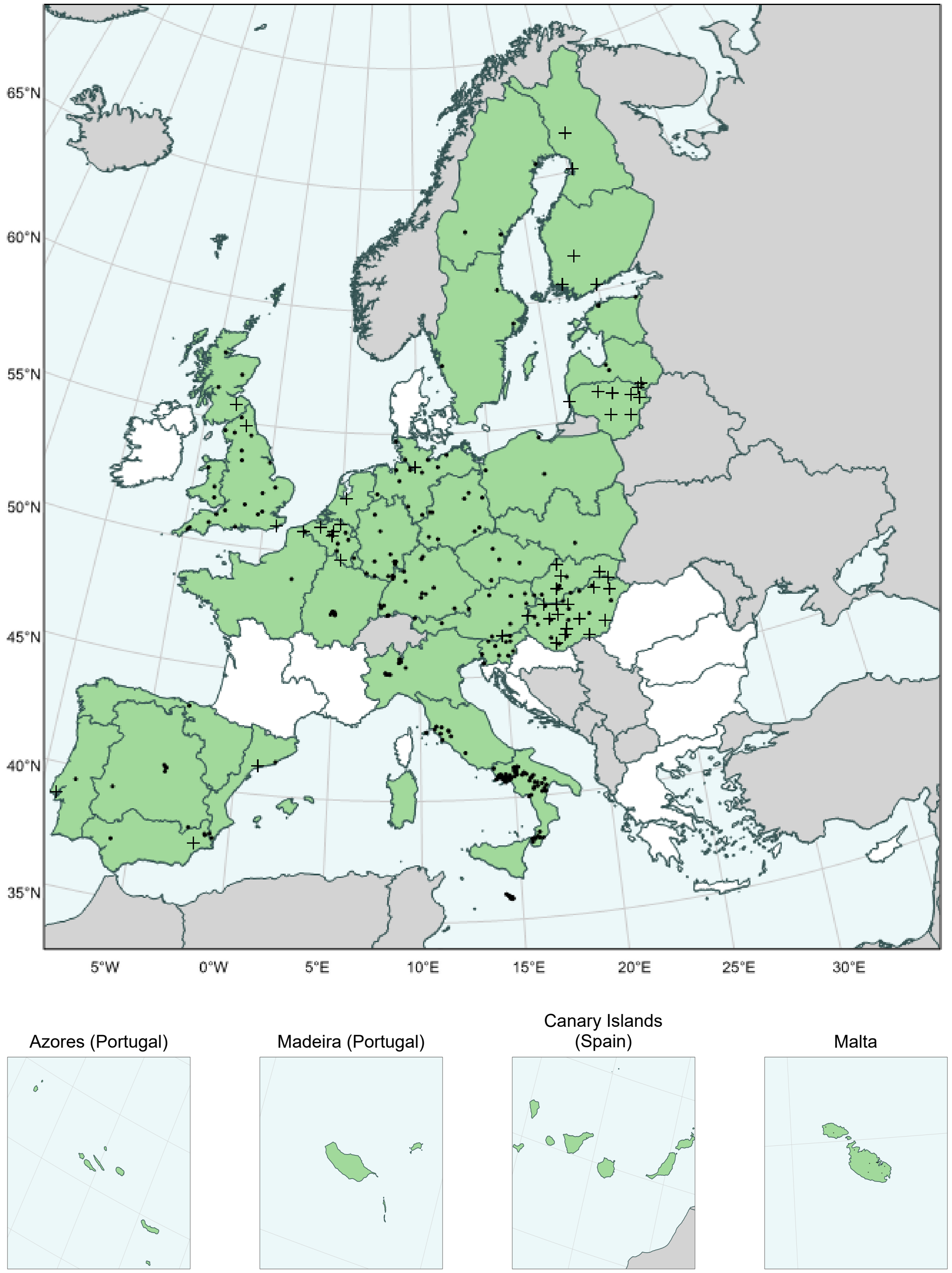


Table W2: Geographical and time averages

DENSE

YEAR : 2016

SAMPLE TYPE : drinking water (Bq l $^{-1}$)

NUCLIDE CATEGORY : tritium (^3H)

Country	N	L	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual average	Monthly max	M
AT	114	9	< RL	< RL	< RL	< RL	< RL	< RL	11
BE	49	12	< RL	< RL	< RL	< RL	< RL	< RL	12
BG									
CY									
CZ	17	4	< RL	< RL	< RL	< RL	< RL	< RL	1
DE-N	39	13	< RL	< RL	< RL	< RL	< RL	< RL	7
DE-C	24	11	< RL	< RL	< RL	< RL	< RL	< RL	2
DE-S	86	18	< RL	< RL	< RL	< RL	< RL	< RL	4
DE-E	21	9	< RL	< RL	< RL	< RL	< RL	< RL	3
DE	170	51	< RL	< RL	< RL	< RL	< RL	< RL	2
DK									
EE	6	3	< RL	< RL		< RL	< RL	< RL	2
ES-N	12	1	< RL	< RL	< RL	< RL	< RL	< RL	3
ES-C	39	6	< RL	< RL	< RL	< RL	< RL	< RL	1
ES-S	39	6	< RL	< RL	< RL	< RL	< RL	< RL	9
ES-E	40	3	< RL	< RL	< RL	< RL	< RL	< RL	2
ES	130	16	< RL	< RL	< RL	< RL	< RL	< RL	2
FI-N	4	2		< RL		< RL	< RL	< RL	10
FI-S	6	3		< RL		< RL	< RL	< RL	4
FI	10	5		< RL		< RL	< RL	< RL	10
FR-NW	11	1	< RL	< RL	< RL	< RL	< RL	< RL	7
FR-NE	8	8			< RL		< RL	< RL	9
FR-SW									
FR-SE									
FR	19	9	< RL	< RL	< RL	< RL	< RL	< RL	9
GB-EN	75	20	< RL	< RL	< RL	< RL	< RL	< RL	10
GB-WL	12	3	< RL	< RL	< RL	< RL	< RL	< RL	1
GB-SC	24	4	< RL	< RL	< RL	< RL	< RL	< RL	11
GB-NI									
GB	111	27	< RL	< RL	< RL	< RL	< RL	< RL	10
GR									
HR-A									
HR-C									
HR									
HU	88	29	< RL	< RL	< RL	< RL	< RL	< RL	5
IE									
IT-N	38	11	< RL	< RL	< RL	< RL	< RL	< RL	10
IT-C	11	10	< RL	< RL	< RL	< RL	< RL	< RL	11
IT-S	148	90	< RL	< RL	< RL	< RL	< RL	< RL	12
IT	197	111	< RL	< RL	< RL	< RL	< RL	< RL	10
LT	80	8	< RL	< RL	< RL	< RL	< RL	< RL	2
LU	5	1	< RL	< RL	< RL	< RL	< RL	< RL	11
LV	16	4	< RL	< RL	< RL	< RL	< RL	< RL	10
MT	12	12	< RL	< RL	< RL	< RL	< RL	< RL	11
NL	12	1	< RL	< RL	< RL	< RL	< RL	< RL	1
PL-N	3	3				< RL	< RL	< RL	12
PL-S	1	1				< RL	< RL	< RL	12
PL	4	4				< RL	< RL	< RL	12
PT	24	2	< RL	< RL	< RL	< RL	< RL	< RL	4
RO-N									
RO-S									
RO									
SE-N	6	3		< RL	< RL		< RL	< RL	4
SE-S	6	3		< RL	< RL		< RL	< RL	4
SE	12	6		< RL	< RL		< RL	< RL	4
SI	12	11	< RL	< RL		< RL	< RL	< RL	3
SK	63	11	< RL	< RL	< RL	< RL	< RL	< RL	9

RL: reporting level for ^3H In drinking water, i.e. 1.0 E+02 BQ/L (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
L: Number of sampling locations considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

Fig. W3: Geographical and time averages

YEAR	:	2017
SAMPLE TYPE	:	drinking water (Bq l $^{-1}$)
NUCLIDE CATEGORY	:	tritium (^{3}H)

EU (no relevant data reported)

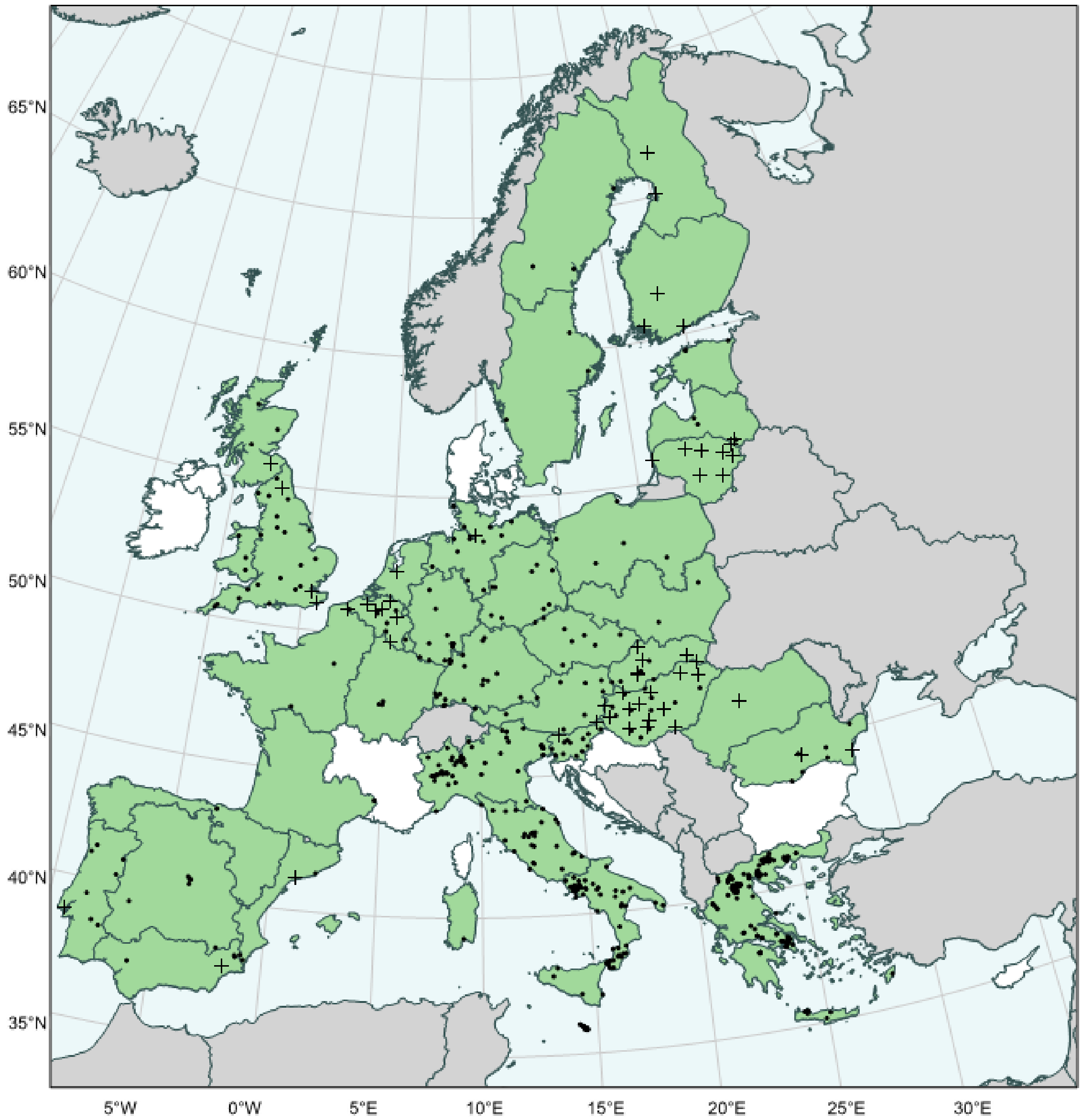
EU (only relevant constraint values above the reporting level reported)

Outside EU (in 2017)

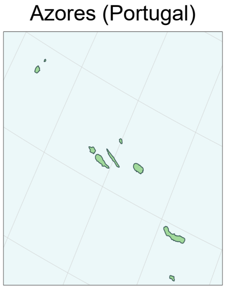
		annual avg.	< 100 Bq l $^{-1}$
100 Bq l $^{-1}$	<=	annual avg.	< 300 Bq l $^{-1}$
300 Bq l $^{-1}$	<=	annual avg.	< 1000 Bq l $^{-1}$
1000 Bq l $^{-1}$	<=	annual avg.	

. sample location (Coordinate Accuracy = Precise or Not Specified)

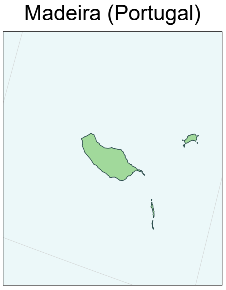
+ regional average (Coordinate Accuracy = Reference Point of Region)



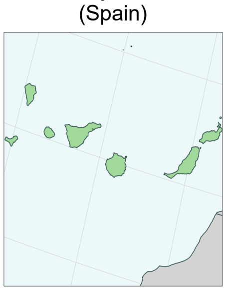
Azores (Portugal)



Madeira (Portugal)



Canary Islands (Spain)



Malta

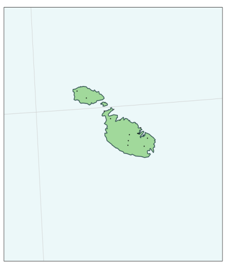


Table W3: Geographical and time averages

YEAR : 2017

SAMPLE TYPE : drinking water (Bq l $^{-1}$)

NUCLIDE CATEGORY : tritium (^{3}H)

Country	N	L	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual average	Monthly max	M
AT	116	9	< RL	< RL	< RL	< RL	< RL	< RL	2
BE	48	12	< RL	< RL	< RL	< RL	< RL	< RL	6
BG									
CY									
CZ	62	8	< RL	< RL	< RL	< RL	< RL	< RL	4
DE-N	35	13	< RL	< RL	< RL	< RL	< RL	< RL	1
DE-C	24	11	< RL	< RL	< RL	< RL	< RL	< RL	2
DE-S	89	20	< RL	< RL	< RL	< RL	< RL	< RL	9
DE-E	24	9	< RL	< RL	< RL	< RL	< RL	< RL	1
DE	172	53	< RL	< RL	< RL	< RL	< RL	< RL	2
DK									
EE	6	3	< RL			< RL	< RL	< RL	2
ES-N	12	1	< RL	< RL	< RL	< RL	< RL	< RL	6
ES-C	39	6	< RL	< RL	< RL	< RL	< RL	< RL	10
ES-S	39	6	< RL	< RL	< RL	< RL	< RL	< RL	3
ES-E	40	3	< RL	< RL	< RL	< RL	< RL	< RL	8
ES	130	16	< RL	< RL	< RL	< RL	< RL	< RL	3
FI-N	4	2		< RL		< RL	< RL	< RL	10
FI-S	6	3		< RL		< RL	< RL	< RL	10
FI	10	5		< RL		< RL	< RL	< RL	10
FR-NW	12	3	< RL	< RL	< RL	< RL	< RL	< RL	10
FR-NE	5	3		< RL		< RL	< RL	< RL	10
FR-SW	5	2	< RL	< RL	< RL	< RL	< RL	< RL	10
FR-SE									
FR	22	8	< RL	< RL	< RL	< RL	< RL	< RL	11
GB-EN	82	22	< RL	< RL	< RL	< RL	< RL	< RL	1
GB-WL	13	4	< RL	< RL	< RL	< RL	< RL	< RL	1
GB-SC	24	4	< RL	< RL	< RL	< RL	< RL	< RL	1
GB-NI									
GB	119	30	< RL	< RL	< RL	< RL	< RL	< RL	3
GR	204	189	< RL	< RL	< RL	< RL	< RL	< RL	1
HR-A									
HR-C									
HR									
HU	83	26	< RL	< RL	< RL	< RL	< RL	< RL	7
IE									
IT-N	84	54	< RL	< RL	< RL	< RL	< RL	< RL	4
IT-C	31	27	< RL	< RL	< RL	< RL	< RL	< RL	12
IT-S	144	60	< RL	< RL	< RL	< RL	< RL	< RL	12
IT	259	141	< RL	< RL	< RL	< RL	< RL	< RL	12
LT	80	8	< RL	< RL	< RL	< RL	< RL	< RL	6
LU	11	1	< RL	< RL	< RL	< RL	< RL	< RL	11
LV	16	4	< RL	< RL	< RL	< RL	< RL	< RL	4
MT	15	14	< RL	< RL	< RL	< RL	< RL	< RL	8
NL	12	1	< RL	< RL	< RL	< RL	< RL	< RL	1
PL-N	5	5	< RL	< RL	< RL	< RL	< RL	< RL	1
PL-S	2	2	< RL	< RL	< RL	< RL	< RL	< RL	1
PL	7	7	< RL	< RL	< RL	< RL	< RL	< RL	1
PT	30	8	< RL	< RL	< RL	< RL	< RL	< RL	12
RO-N	1	1				< RL	< RL	< RL	12
RO-S	260	8	< RL	< RL	< RL	< RL	< RL	< RL	6
RO	261	9	< RL	< RL	< RL	< RL	< RL	< RL	6
SE-N	6	3		< RL		< RL	< RL	< RL	10
SE-S	6	3		< RL		< RL	< RL	< RL	5
SE	12	6		< RL		< RL	< RL	< RL	5
SI	18	13	< RL	< RL	< RL	< RL	< RL	< RL	12
SK	83	11	< RL	< RL	< RL	< RL	< RL	< RL	8

RL: reporting level for ^{3}H In drinking water, i.e. 1.0 E+02 BQ/L (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
L: Number of sampling locations considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

DENSE

Fig. W4: Geographical and time averages

YEAR	:	2018
SAMPLE TYPE	:	drinking water (Bq l $^{-1}$)
NUCLIDE CATEGORY	:	tritium (^{3}H)

EU (no relevant data reported)

EU (only relevant constraint values above the reporting level reported)

Outside EU (in 2018)

annual avg. < 100 Bq l $^{-1}$

100 Bq l $^{-1}$ <= annual avg. < 300 Bq l $^{-1}$

300 Bq l $^{-1}$ <= annual avg. < 1000 Bq l $^{-1}$

1000 Bq l $^{-1}$ <= annual avg.

. sample location (Coordinate Accuracy = Precise or Not Specified)

+ regional average (Coordinate Accuracy = Reference Point of Region)

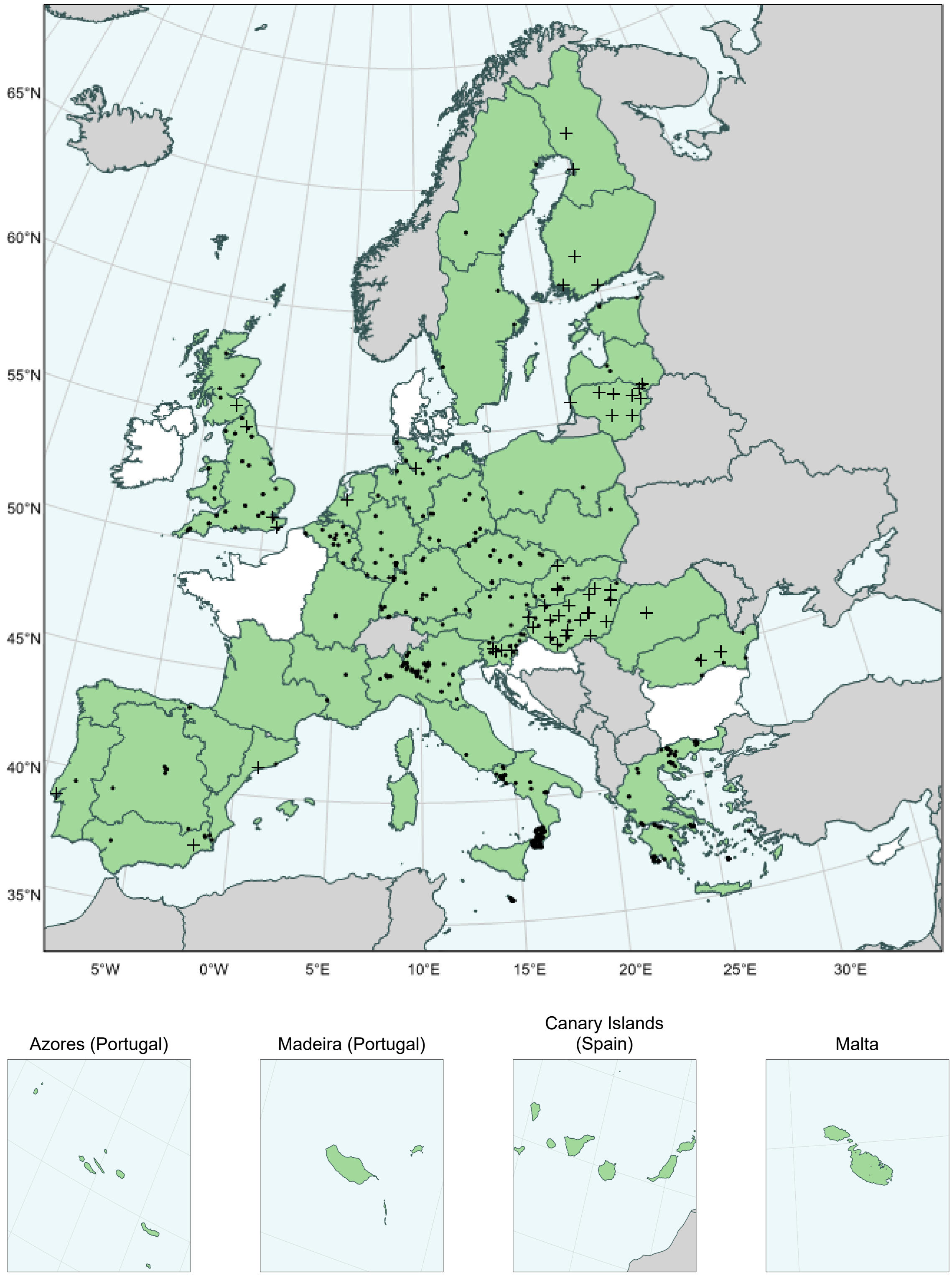


Table W4: Geographical and time averages

YEAR : **2018**
SAMPLE TYPE : **drinking water (Bq l $^{-1}$)**
NUCLIDE CATEGORY : **tritium (^{3}H)**

Country	N	L	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual average	Monthly max	M
AT	105	9	< RL	< RL	< RL	< RL	< RL	< RL	10
BE	47	13	< RL	< RL	< RL	< RL	< RL	< RL	3
BG									
CY									
CZ	65	17	< RL	< RL	< RL	< RL	< RL	< RL	1
DE-N	35	12	< RL	< RL	< RL	< RL	< RL	< RL	7
DE-C	26	12	< RL	< RL	< RL	< RL	< RL	< RL	2
DE-S	89	19	< RL	< RL	< RL	< RL	< RL	< RL	8
DE-E	25	9	< RL	< RL	< RL	< RL	< RL	< RL	6
DE	175	52	< RL	< RL	< RL	< RL	< RL	< RL	2
DK									
EE	6	3	< RL			< RL	< RL	< RL	2
ES-N	12	1	< RL	< RL	< RL	< RL	< RL	< RL	1
ES-C	40	6	< RL	< RL	< RL	< RL	< RL	< RL	5
ES-S	40	6	< RL	< RL	< RL	< RL	< RL	< RL	6
ES-E	48	3	< RL	< RL	< RL	< RL	< RL	< RL	8
ES	140	16	< RL	< RL	< RL	< RL	< RL	< RL	8
FI-N	2	2				< RL	< RL	< RL	10
FI-S	3	3				< RL	< RL	< RL	10
FI	5	5				< RL	< RL	< RL	10
FR-NW									
FR-NE	4	2		< RL			< RL	< RL	4
FR-SW	2	2				< RL	< RL	< RL	10
FR-SE	1	1	< RL				< RL	< RL	3
FR	7	5	< RL	< RL		< RL	< RL	< RL	4
GB-EN	82	40	< RL	< RL	< RL	< RL	< RL	< RL	1
GB-WL	10	5	< RL	< RL	< RL	< RL	< RL	< RL	1
GB-SC	26	5	< RL	< RL	< RL	< RL	< RL	< RL	1
GB-NI									
GB	118	50	< RL	< RL	< RL	< RL	< RL	< RL	4
GR	80	77	< RL	< RL	< RL	< RL	< RL	< RL	2
HR-A									
HR-C									
HR									
HU	96	29	< RL	< RL	< RL	< RL	< RL	< RL	3
IE									
IT-N	81	47	< RL	< RL	< RL	< RL	< RL	< RL	4
IT-C	2	1			< RL	< RL	< RL	< RL	8
IT-S	224	102	< RL	< RL	< RL	< RL	< RL	< RL	1
IT	307	150	< RL	< RL	< RL	< RL	< RL	< RL	9
LT	80	8	< RL	< RL	< RL	< RL	< RL	< RL	7
LU	13	1	< RL	< RL	< RL	< RL	< RL	< RL	5
LV	16	4	< RL	< RL	< RL	< RL	< RL	< RL	3
MT	5	5	< RL	< RL			< RL	< RL	5
NL	12	1	< RL	< RL	< RL	< RL	< RL	< RL	1
PL-N	2	2	< RL	< RL	< RL	< RL	< RL	< RL	1
PL-S	1	1	< RL	< RL	< RL	< RL	< RL	< RL	12
PL	3	3	< RL	< RL	< RL	< RL	< RL	< RL	1
PT	24	2	< RL	< RL	< RL	< RL	< RL	< RL	9
RO-N	1	1		< RL			< RL	< RL	4
RO-S	150	7	< RL	< RL	< RL	< RL	< RL	< RL	11
RO	151	8	< RL	< RL	< RL	< RL	< RL	< RL	11
SE-N	6	3		< RL	< RL	< RL	< RL	< RL	9
SE-S	6	3		< RL	< RL	< RL	< RL	< RL	10
SE	12	6		< RL	< RL	< RL	< RL	< RL	10
SI	16	13	< RL	< RL	< RL	< RL	< RL	< RL	1
SK	82	9	< RL	< RL	< RL	< RL	< RL	< RL	12

RL: reporting level for ^{3}H In drinking water, i.e. 1.0 E+02 BQ/L (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
L: Number of sampling locations considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

DENSE

Fig. W5: Geographical and time averages

YEAR	:	2019
SAMPLE TYPE	:	drinking water (Bq l $^{-1}$)
NUCLIDE CATEGORY	:	tritium (^{3}H)

EU (no relevant data reported)			annual avg.	<	100	Bq l $^{-1}$
EU (only relevant constraint values above the reporting level reported)	100 Bq l $^{-1}$	<=	annual avg.	<	300	Bq l $^{-1}$
	300 Bq l $^{-1}$	<=	annual avg.	<	1000	Bq l $^{-1}$
Outside EU (in 2019)	1000 Bq l $^{-1}$	<=	annual avg.			

. sample location (Coordinate Accuracy = Precise or Not Specified)

\+ regional average (Coordinate Accuracy = Reference Point of Region)

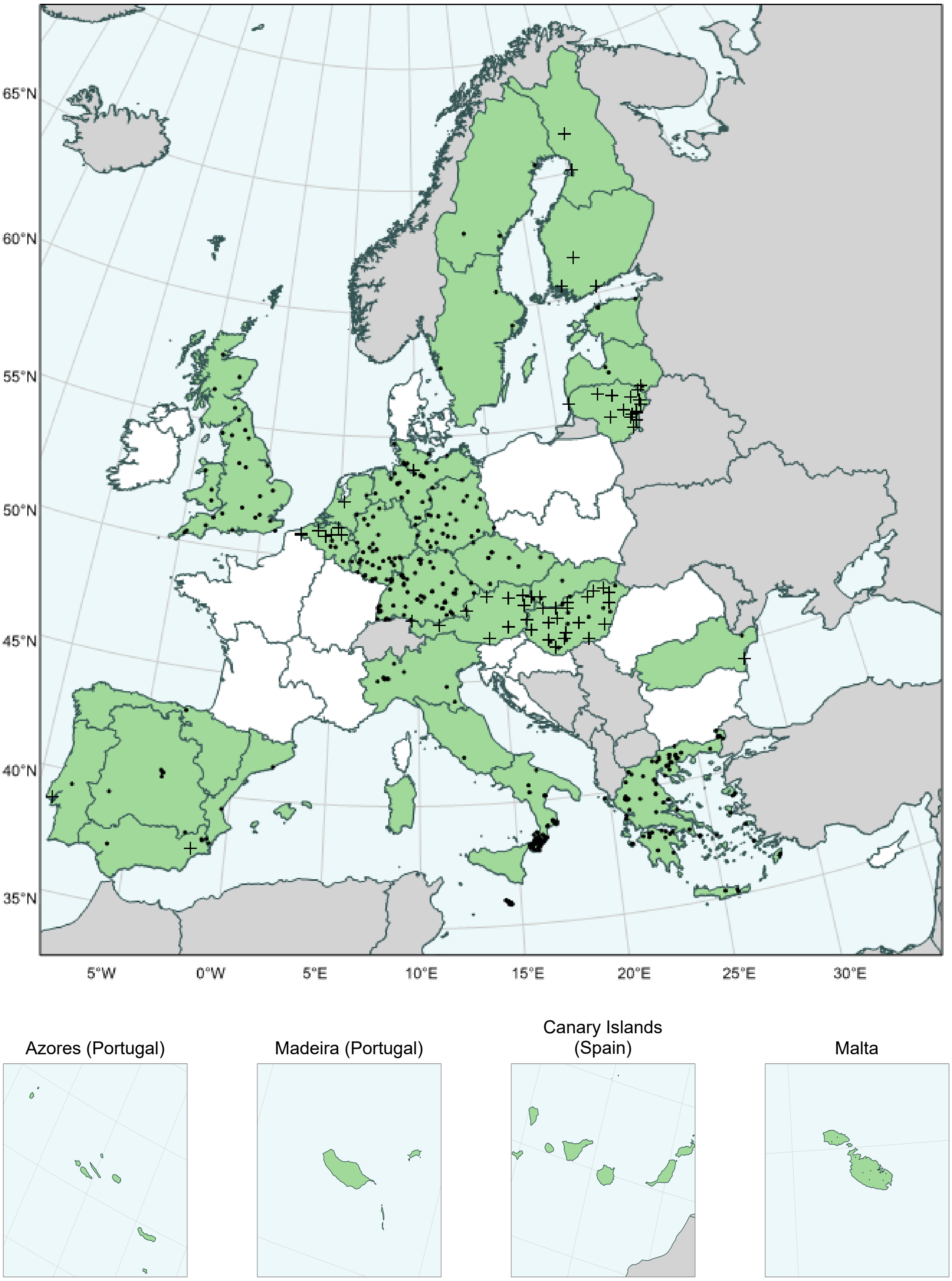


Table W5: Geographical and time averages

YEAR : **2019**
SAMPLE TYPE : **drinking water (Bq l $^{-1}$)**
NUCLIDE CATEGORY : **tritium (^{3}H)**

Country	N	L	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual average	Monthly max	M
AT	108	9	< RL	< RL	< RL	< RL	< RL	< RL	3
BE	49	12	< RL	< RL	< RL	< RL	< RL	< RL	9
BG									
CY									
CZ	30	9	< RL	< RL	< RL	< RL	< RL	< RL	1
DE-N	134	29	< RL	< RL	< RL	< RL	< RL	< RL	1
DE-C	100	32	< RL	< RL	< RL	< RL	< RL	< RL	8
DE-S	427	62	< RL	< RL	< RL	< RL	< RL	< RL	12
DE-E	75	24	< RL	< RL	< RL	< RL	< RL	< RL	6
DE	736	147	< RL	< RL	< RL	< RL	< RL	< RL	10
DK									
EE	6	3	< RL			< RL	< RL	< RL	2
ES-N	12	1	< RL	< RL	< RL	< RL	< RL	< RL	1
ES-C	38	6	< RL	< RL	< RL	< RL	< RL	< RL	10
ES-S	40	6	< RL	< RL	< RL	< RL	< RL	< RL	3
ES-E	41	3	< RL	< RL	< RL	< RL	< RL	< RL	11
ES	131	16	< RL	< RL	< RL	< RL	< RL	< RL	3
FI-N	2	2		< RL			< RL	< RL	4
FI-S	3	3		< RL			< RL	< RL	5
FI	5	5		< RL			< RL	< RL	5
FR-NW									
FR-NE									
FR-SW									
FR-SE									
FR									
GB-EN	84	21	< RL	< RL	< RL	< RL	< RL	< RL	1
GB-WL	12	3	< RL	< RL	< RL	< RL	< RL	< RL	1
GB-SC	24	4	< RL	< RL	< RL	< RL	< RL	< RL	1
GB-NI									
GB	120	28	< RL	< RL	< RL	< RL	< RL	< RL	10
GR	90	89	< RL	< RL	< RL	< RL	< RL	< RL	1
HR-A									
HR-C									
HR									
HU	88	31	< RL	< RL	< RL	< RL	< RL	< RL	9
IE									
IT-N	43	11	< RL	< RL	< RL	< RL	< RL	< RL	9
IT-C	2	1		< RL		< RL	< RL	< RL	11
IT-S	210	79	< RL	< RL	< RL	< RL	< RL	< RL	5
IT	255	91	< RL	< RL	< RL	< RL	< RL	< RL	10
LT	136	15	< RL	< RL	< RL	< RL	< RL	< RL	3
LU	22	2	< RL	< RL	< RL	< RL	< RL	< RL	1
LV	16	4	< RL	< RL	< RL	< RL	< RL	< RL	12
MT	14	14	< RL	< RL	< RL	< RL	< RL	< RL	5
NL	12	1	< RL	< RL	< RL	< RL	< RL	< RL	1
PL-N									
PL-S									
PL									
PT	24	2	< RL	< RL	< RL	< RL	< RL	< RL	1
RO-N									
RO-S	80	2	< RL	< RL	< RL	< RL	< RL	< RL	9
RO	80	2	< RL	< RL	< RL	< RL	< RL	< RL	9
SE-N	6	3		< RL	< RL		< RL	< RL	9
SE-S	6	3		< RL	< RL	< RL	< RL	< RL	9
SE	12	6		< RL	< RL	< RL	< RL	< RL	9
SI									
SK	11	5	< RL	< RL	< RL		< RL	< RL	7

RL: reporting level for ^{3}H In drinking water, i.e. 1.0 E+02 BQ/L (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
L: Number of sampling locations considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

DENSE

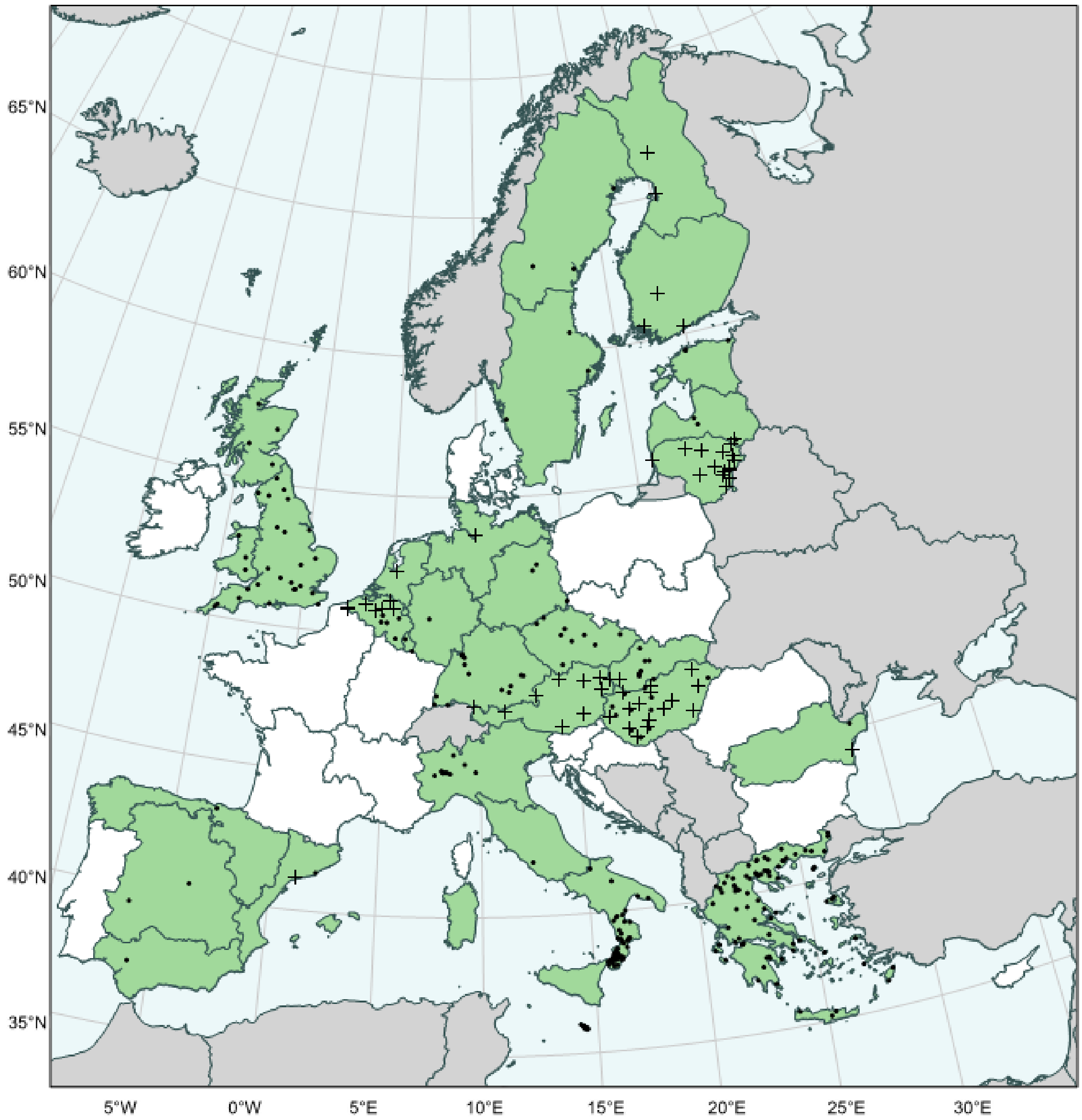
Fig. W6: Geographical and time averages

YEAR	:	2020
SAMPLE TYPE	:	drinking water (Bq l $^{-1}$)
NUCLIDE CATEGORY	:	tritium (^{3}H)

EU (no relevant data reported)
EU (only relevant constraint values above the reporting level reported)
Outside EU (in 2020)

		annual avg.	<	100 Bq l $^{-1}$
100 Bq l $^{-1}$	<=	annual avg.	<	300 Bq l $^{-1}$
300 Bq l $^{-1}$	<=	annual avg.	<	1000 Bq l $^{-1}$
1000 Bq l $^{-1}$	<=	annual avg.		

. sample location (Coordinate Accuracy = Precise or Not Specified)
+ regional average (Coordinate Accuracy = Reference Point of Region)



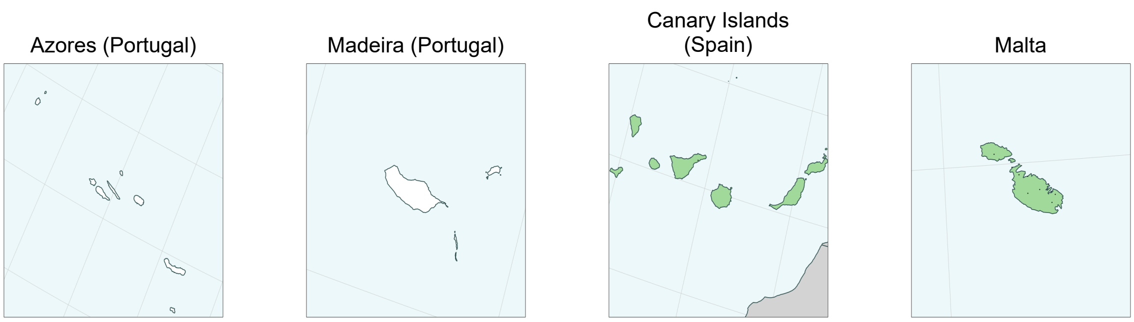


Table W6: Geographical and time averages

YEAR : 2020

SAMPLE TYPE : drinking water (Bq l $^{-1}$)

NUCLIDE CATEGORY : tritium (^3H)

Country	N	L	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual average	Monthly max	M
AT	106	9	< RL	< RL	< RL	< RL	< RL	< RL	1
BE	96	12	< RL	< RL	< RL	< RL	< RL	< RL	6
BG									
CY									
CZ	35	9	< RL	< RL	< RL	< RL	< RL	< RL	1
DE-N	1	1	< RL				< RL	< RL	1
DE-C	1	1	< RL				< RL	< RL	1
DE-S	16	13	< RL				< RL	< RL	1
DE-E	3	3	< RL				< RL	< RL	1
DE	21	18	< RL				< RL	< RL	1
DK									
EE	6	3	< RL			< RL	< RL	< RL	3
ES-N	10	1	< RL	< RL	< RL	< RL	< RL	< RL	6
ES-C	23	2	< RL	< RL	< RL	< RL	< RL	< RL	4
ES-S	24	2	< RL	< RL	< RL	< RL	< RL	< RL	1
ES-E	36	2	< RL	< RL	< RL	< RL	< RL	< RL	7
ES	93	7	< RL	< RL	< RL	< RL	< RL	< RL	7
FI-N	2	2				< RL	< RL	< RL	11
FI-S	3	3				< RL	< RL	< RL	10
FI	5	5				< RL	< RL	< RL	11
FR-NW									
FR-NE									
FR-SW									
FR-SE									
FR									
GB-EN	41	24	< RL	< RL		< RL	< RL	< RL	11
GB-WL	5	3	< RL			< RL	< RL	< RL	12
GB-SC	24	4	< RL		< RL	< RL	< RL	< RL	8
GB-NI									
GB	70	31	< RL	< RL	< RL	< RL	< RL	< RL	4
GR	82	82	< RL	< RL	< RL	< RL	< RL	< RL	1
HR-A									
HR-C									
HR									
HU	71	27	< RL	< RL	< RL	< RL	< RL	< RL	9
IE									
IT-N	34	11	< RL	< RL	< RL	< RL	< RL	< RL	3
IT-C	2	1		< RL		< RL	< RL	< RL	6
IT-S	163	63	< RL	< RL	< RL	< RL	< RL	< RL	1
IT	199	75	< RL	< RL	< RL	< RL	< RL	< RL	9
LT	126	15	< RL	< RL	< RL	< RL	< RL	< RL	8
LU	25	2	< RL	< RL	< RL	< RL	< RL	< RL	2
LV	16	4	< RL	< RL	< RL	< RL	< RL	< RL	3
MT	10	10	< RL	< RL	< RL	< RL	< RL	< RL	6
NL	12	1	< RL	< RL	< RL	< RL	< RL	< RL	1
PL-N									
PL-S									
PL									
PT									
RO-N									
RO-S	59	2	< RL	< RL	< RL	< RL	< RL	< RL	10
RO	59	2	< RL	< RL	< RL	< RL	< RL	< RL	10
SE-N	6	3		< RL	< RL	< RL	< RL	< RL	5
SE-S	6	3		< RL	< RL		< RL	< RL	9
SE	12	6		< RL	< RL	< RL	< RL	< RL	9
SI									
SK	62	9	< RL	< RL	< RL	< RL	< RL	< RL	12

RL: reporting level for ^3H In drinking water, i.e. 1.0 E+02 BQ/L (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
L: Number of sampling locations considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

DENSE

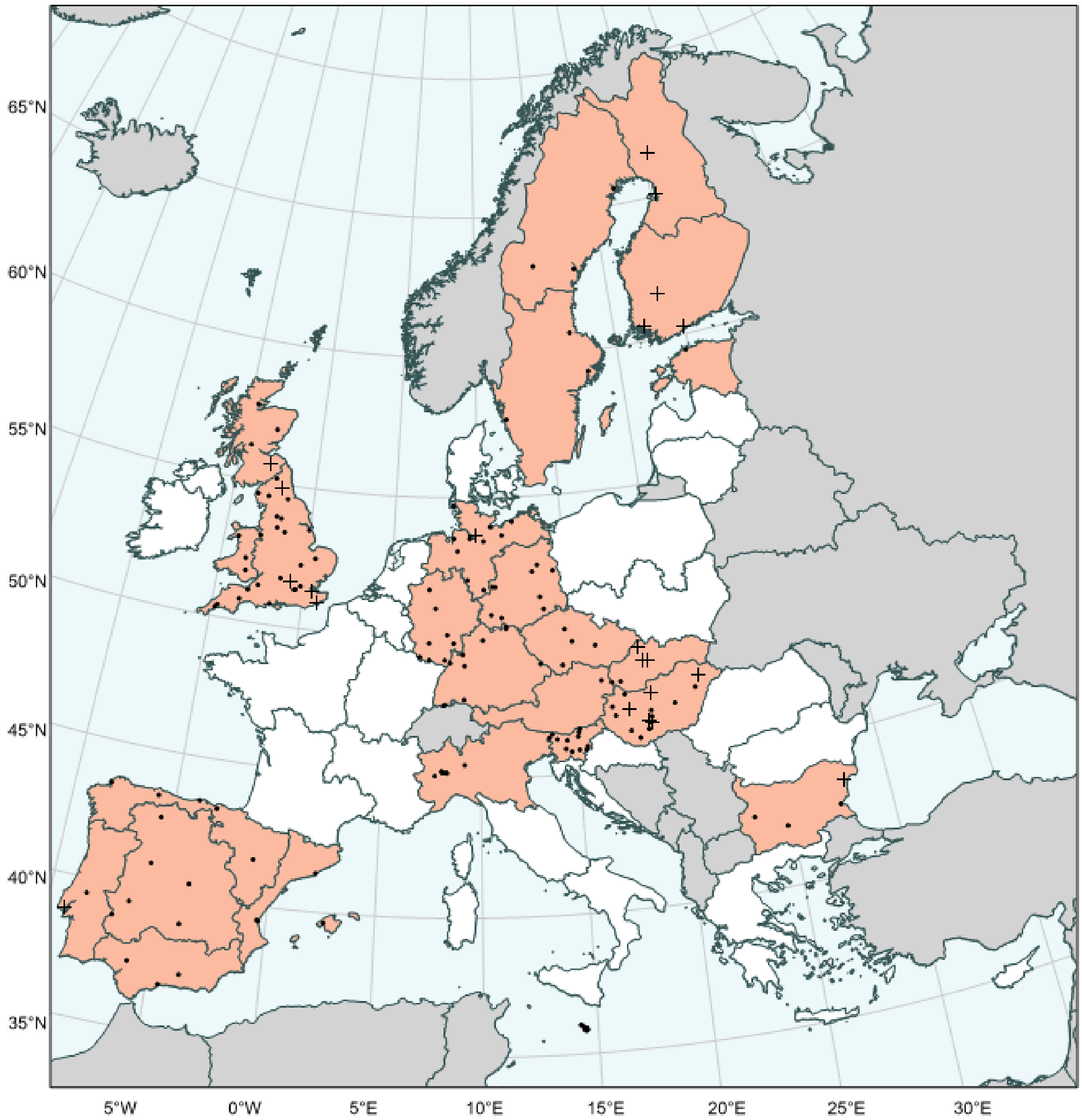
Fig. W7: Geographical and time averages

YEAR	:	2015
SAMPLE TYPE	:	drinking water (Bq l $^{-1}$)
NUCLIDE CATEGORY	:	strontium-90 (^{90}Sr)

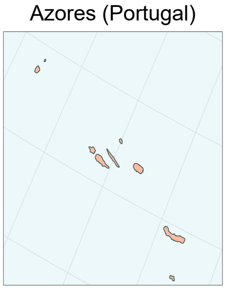
EU (no relevant data reported)
EU (only relevant constraint values above the reporting level reported)
Outside EU (in 2015)

		annual avg.	<	0.06	Bq l $^{-1}$
0.06 Bq l $^{-1}$	<=	annual avg.	<	0.18	Bq l $^{-1}$
0.18 Bq l $^{-1}$	<=	annual avg.	<	0.6	Bq l $^{-1}$
0.6 Bq l $^{-1}$	<=	annual avg.			

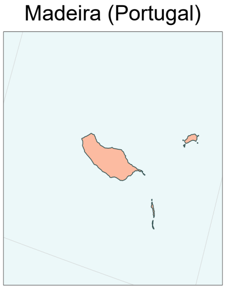
. sample location (Coordinate Accuracy = Precise or Not Specified)
+ regional average (Coordinate Accuracy = Reference Point of Region)



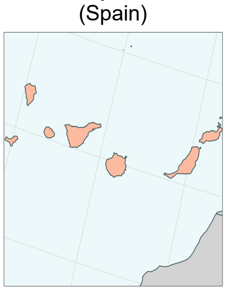
Azores (Portugal)



Madeira (Portugal)



Canary Islands (Spain)



Malta

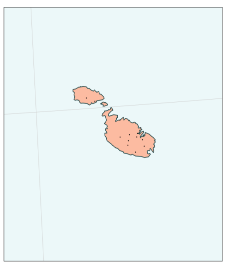


Table W7: Geographical and time averages

YEAR : 2015
SAMPLE TYPE : drinking water (Bq l^{-1})
NUCLIDE CATEGORY : strontium-90 (^{90}Sr)

Country	N	L	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual average	Monthly max	M
AT	5	1	< RL	< RL	< RL	< RL	< RL	< RL	4
BE									
BG	17	4	< RL	< RL	< RL	< RL	< RL	< RL	3
CY									
CZ	13	4	< RL	< RL	< RL	< RL	< RL	< RL	10
DE-N	31	11	< RL	< RL	< RL	< RL	< RL	< RL	7
DE-C	17	8	< RL	< RL	< RL	< RL	< RL	< RL	11
DE-S	20	10	< RL	< RL	< RL	< RL	< RL	< RL	2
DE-E	22	9	< RL	< RL	< RL	< RL	< RL	< RL	3
DE	90	38	< RL	< RL	< RL	< RL	< RL	< RL	2
DK									
EE	2	1	< RL			< RL	< RL	< RL	3
ES-N	29	5	< RL	< RL	< RL	< RL	< RL	< RL	12
ES-C	44	7	< RL	< RL	< RL	< RL	< RL	< RL	4
ES-S	31	4	< RL	< RL	< RL	< RL	< RL	< RL	6
ES-E	24	4	< RL	< RL	< RL	< RL	< RL	< RL	3
ES	128	20	< RL	< RL	< RL	< RL	< RL	< RL	6
FI-N	4	2		< RL		< RL	< RL	< RL	4
FI-S	6	3		< RL		< RL	< RL	< RL	10
FI	10	5		< RL		< RL	< RL	< RL	4
FR-NW									
FR-NE									
FR-SW									
FR-SE									
FR									
GB-EN	109	25	< RL	< RL	< RL	< RL	< RL	< RL	10
GB-WL	15	4	< RL	< RL	< RL	< RL	< RL	< RL	7
GB-SC	23	4	< RL	< RL	< RL	< RL	< RL	< RL	3
GB-NI									
GB	147	33	< RL	< RL	< RL	< RL	< RL	< RL	3
GR									
HR-A									
HR-C									
HR									
HU	48	16	< RL	< RL	< RL	< RL	< RL	< RL	2
IE									
IT-N	21	7	< RL	< RL	< RL	< RL	< RL	< RL	1
IT-C									
IT-S									
IT	21	7	< RL	< RL	< RL	< RL	< RL	< RL	1
LT									
LU									
LV									
MT	14	13	< RL	< RL	< RL	< RL	< RL	< RL	8
NL									
PL-N									
PL-S									
PL									
PT	24	2	< RL	< RL	< RL	< RL	< RL	< RL	8
RO-N									
RO-S									
RO									
SE-N	6	3	< RL	< RL	< RL		< RL	< RL	3
SE-S	6	3	< RL		< RL	< RL	< RL	< RL	9
SE	12	6	< RL	< RL	< RL	< RL	< RL	< RL	3
SI	15	12	< RL	< RL	< RL	< RL	< RL	< RL	5
SK	32	5	< RL	< RL	< RL	< RL	< RL	< RL	5

RL: reporting level for ^{90}Sr In drinking water, i.e. 6.0 E-02 BQ/L (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
L: Number of sampling locations considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

DENSE

Fig. W8: Geographical and time averages

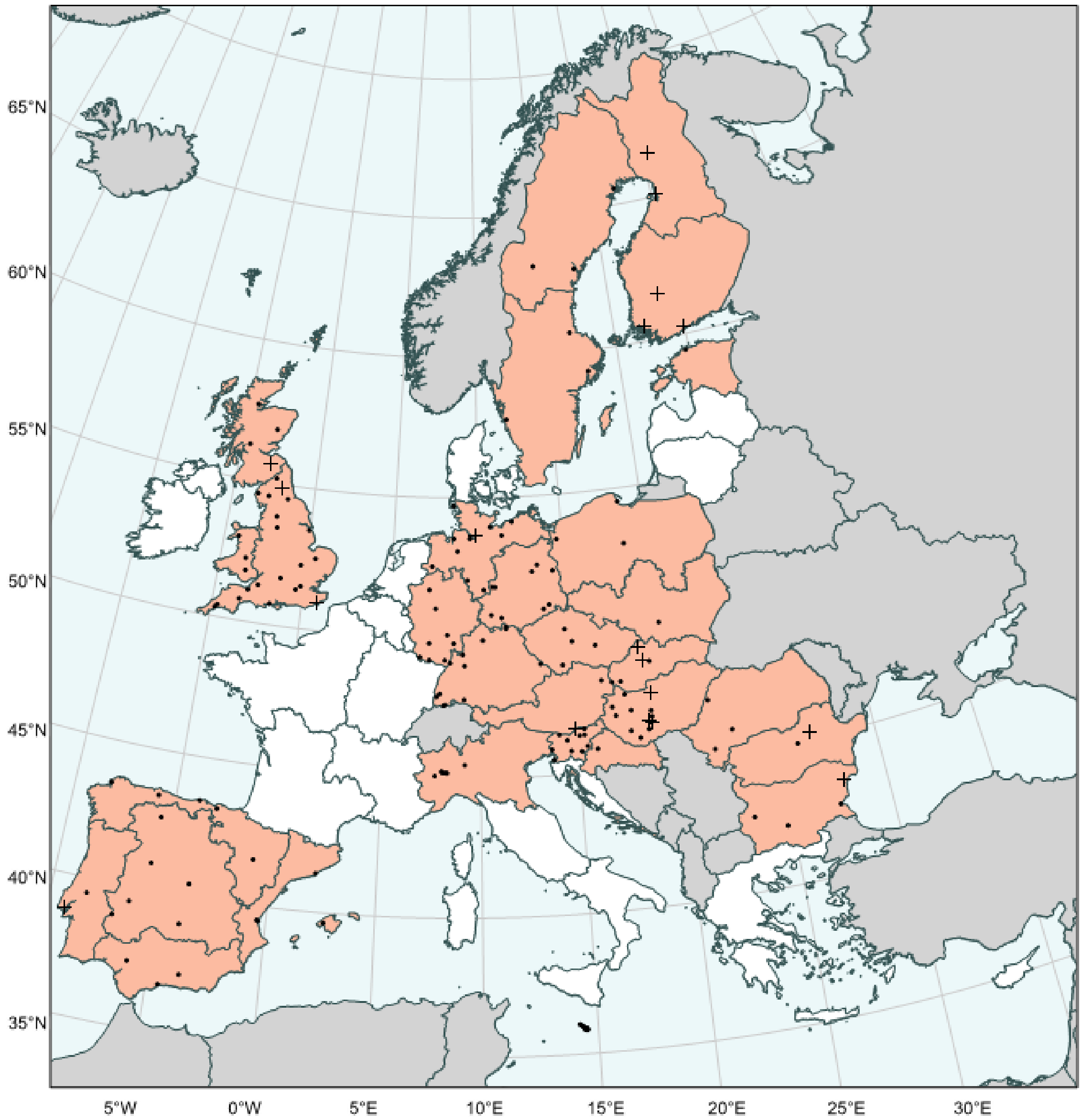
YEAR	:	2016
SAMPLE TYPE	:	drinking water (Bq l $^{-1}$)
NUCLIDE CATEGORY	:	strontium-90 (^{90}Sr)

- EU (no relevant data reported)
- EU (only relevant constraint values above the reporting level reported)
- Outside EU (in 2016)

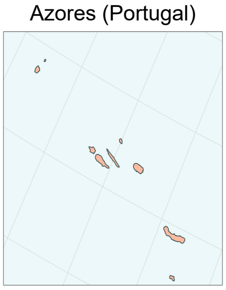
	annual avg.	< 0.06 Bq l $^{-1}$
0.06 Bq l $^{-1}$ <=	annual avg.	< 0.18 Bq l $^{-1}$
0.18 Bq l $^{-1}$ <=	annual avg.	< 0.6 Bq l $^{-1}$
0.6 Bq l $^{-1}$ <=	annual avg.	

. sample location (Coordinate Accuracy = Precise or Not Specified)

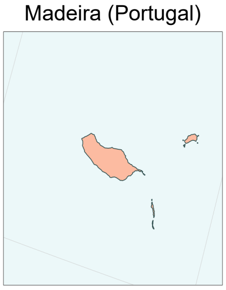
\+ regional average (Coordinate Accuracy = Reference Point of Region)



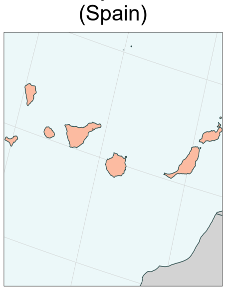
Azores (Portugal)



Madeira (Portugal)



Canary Islands (Spain)



Malta

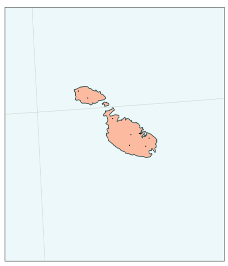


Table W8: Geographical and time averages

DENSE

YEAR : 2016
SAMPLE TYPE : drinking water (Bq l $^{-1}$)
NUCLIDE CATEGORY : strontium-90 (^{90}Sr)

Country	N	L	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual average	Monthly max	M
AT	5	1	< RL	< RL	< RL	< RL	< RL	< RL	1
BE									
BG	18	4	< RL	< RL	< RL	< RL	< RL	< RL	8
CY									
CZ	13	4	< RL	< RL	< RL	< RL	< RL	< RL	9
DE-N	28	11	< RL	< RL	< RL	< RL	< RL	< RL	1
DE-C	18	8	< RL	< RL	< RL	< RL	< RL	< RL	5
DE-S	24	12	< RL	< RL	< RL	< RL	< RL	< RL	4
DE-E	21	9	< RL	< RL	< RL	< RL	< RL	< RL	9
DE	91	40	< RL	< RL	< RL	< RL	< RL	< RL	5
DK									
EE	2	1	< RL			< RL	< RL	< RL	3
ES-N	29	5	< RL	< RL	< RL	< RL	< RL	< RL	5
ES-C	44	7	< RL	< RL	< RL	< RL	< RL	< RL	11
ES-S	32	4	< RL	< RL	< RL	< RL	< RL	< RL	12
ES-E	24	4	< RL	< RL	< RL	< RL	< RL	< RL	2
ES	129	20	< RL	< RL	< RL	< RL	< RL	< RL	11
FI-N	4	2		< RL		< RL	< RL	< RL	4
FI-S	6	3		< RL		< RL	< RL	< RL	4
FI	10	5		< RL		< RL	< RL	< RL	4
FR-NW									
FR-NE									
FR-SW									
FR-SE									
FR									
GB-EN	75	20	< RL	< RL	< RL	< RL	< RL	< RL	1
GB-WL	12	3	< RL	< RL	< RL	< RL	< RL	< RL	1
GB-SC	24	4	< RL	< RL	< RL	< RL	< RL	< RL	12
GB-NI									
GB	111	27	< RL	< RL	< RL	< RL	< RL	< RL	3
GR									
HR-A									
HR-C	1	1				< RL	< RL	< RL	12
HR	1	1				< RL	< RL	< RL	12
HU	48	13	< RL	< RL	< RL	< RL	< RL	< RL	9
IE									
IT-N	21	7	< RL	< RL	< RL	< RL	< RL	< RL	10
IT-C									
IT-S									
IT	21	7	< RL	< RL	< RL	< RL	< RL	< RL	10
LT									
LU									
LV									
MT	12	12	< RL	< RL	< RL	< RL	< RL	< RL	4
NL									
PL-N	3	3				< RL	< RL	< RL	12
PL-S	1	1				< RL	< RL	< RL	12
PL	4	4				< RL	< RL	< RL	12
PT	22	2	< RL	< RL	< RL	< RL	< RL	< RL	11
RO-N	21	3		< RL	< RL	< RL	< RL	< RL	5
RO-S	73	2		< RL	< RL	< RL	< RL	< RL	5
RO	94	5		< RL	< RL	< RL	< RL	< RL	5
SE-N	6	3		< RL	< RL		< RL	< RL	4
SE-S	6	3		< RL	< RL		< RL	< RL	4
SE	12	6		< RL	< RL		< RL	< RL	4
SI	12	11	< RL	< RL		< RL	< RL	< RL	4
SK	36	5	< RL	< RL	< RL	< RL	< RL	< RL	3

RL: reporting level for ^{90}Sr In drinking water, i.e. 6.0 E-02 BQ/L (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
L: Number of sampling locations considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

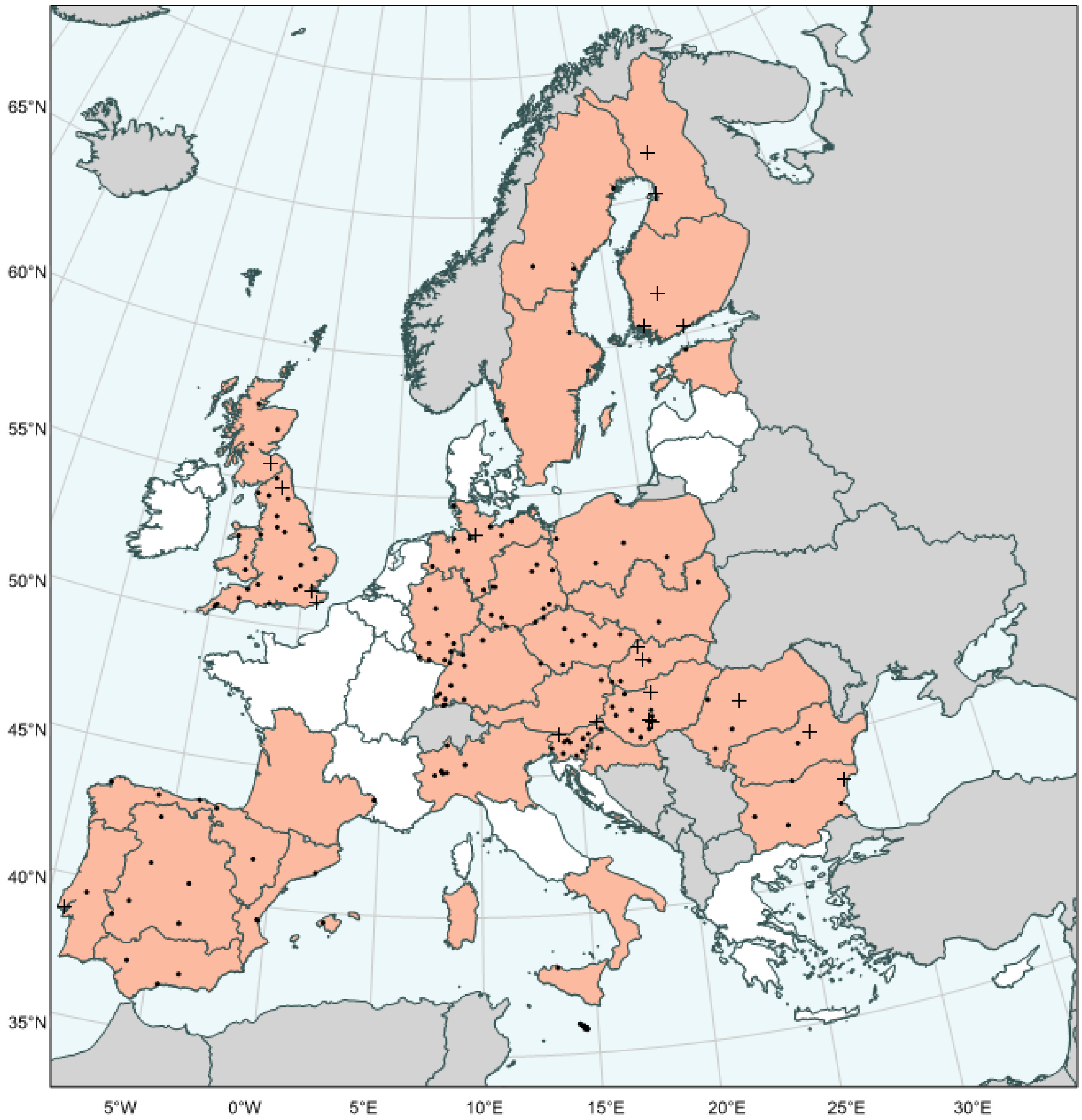
Fig. W9: Geographical and time averages

YEAR	:	2017
SAMPLE TYPE	:	drinking water (Bq l $^{-1}$)
NUCLIDE CATEGORY	:	strontium-90 (^{90}Sr)

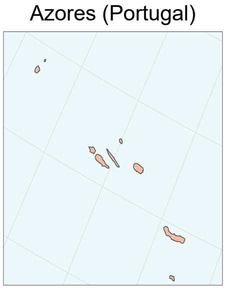
EU (no relevant data reported)
EU (only relevant constraint values above the reporting level reported)
Outside EU (in 2017)

annual avg. < 0.06 Bq l $^{-1}$
0.06 Bq l $^{-1}$ <= annual avg. < 0.18 Bq l $^{-1}$
0.18 Bq l $^{-1}$ <= annual avg. < 0.6 Bq l $^{-1}$
0.6 Bq l $^{-1}$ <= annual avg.

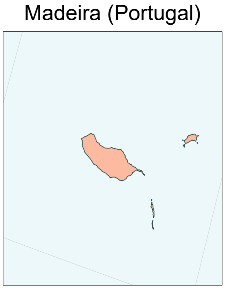
. sample location (Coordinate Accuracy = Precise or Not Specified)
+ regional average (Coordinate Accuracy = Reference Point of Region)



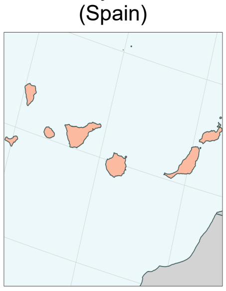
Azores (Portugal)



Madeira (Portugal)



Canary Islands (Spain)



Malta

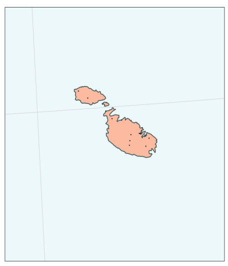


Table W9: Geographical and time averages

YEAR : 2017
SAMPLE TYPE : drinking water (Bq l $^{-1}$)
NUCLIDE CATEGORY : strontium-90 (^{90}Sr)

Country	N	L	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual average	Monthly max	M
AT	5	1	< RL	< RL	< RL	< RL	< RL	< RL	1
BE									
BG	18	4	< RL	< RL	< RL	< RL	< RL	< RL	1
CY									
CZ	31	8	< RL	< RL	< RL	< RL	< RL	< RL	1
DE-N	29	11	< RL	< RL	< RL	< RL	< RL	< RL	1
DE-C	16	8	< RL	< RL	< RL	< RL	< RL	< RL	3
DE-S	29	14	< RL	< RL	< RL	< RL	< RL	< RL	9
DE-E	22	9	< RL	< RL	< RL	< RL	< RL	< RL	1
DE	96	42	< RL	< RL	< RL	< RL	< RL	< RL	4
DK									
EE	2	1	< RL			< RL	< RL	< RL	2
ES-N	28	5	< RL	< RL	< RL	< RL	< RL	< RL	4
ES-C	44	7	< RL	< RL	< RL	< RL	< RL	< RL	3
ES-S	32	4	< RL	< RL	< RL	< RL	< RL	< RL	11
ES-E	24	4	< RL	< RL	< RL	< RL	< RL	< RL	12
ES	128	20	< RL	< RL	< RL	< RL	< RL	< RL	3
FI-N	4	2		< RL		< RL	< RL	< RL	10
FI-S	6	3		< RL		< RL	< RL	< RL	10
FI	10	5		< RL		< RL	< RL	< RL	10
FR-NW									
FR-NE									
FR-SW	5	2	< RL	< RL	< RL	< RL	< RL	< RL	10
FR-SE									
FR	5	2	< RL	< RL	< RL	< RL	< RL	< RL	10
GB-EN	82	22	< RL	< RL	< RL	< RL	< RL	< RL	1
GB-WL	13	4	< RL	< RL	< RL	< RL	< RL	< RL	1
GB-SC	24	4	< RL	< RL	< RL	< RL	< RL	< RL	7
GB-NI									
GB	119	30	< RL	< RL	< RL	< RL	< RL	< RL	2
GR									
HR-A									
HR-C	4	1	< RL	< RL	< RL	< RL	< RL	< RL	7
HR	4	1	< RL	< RL	< RL	< RL	< RL	< RL	7
HU	48	13	< RL	< RL	< RL	< RL	< RL	< RL	9
IE									
IT-N	22	9	< RL	< RL	< RL	< RL	< RL	< RL	4
IT-C									
IT-S	1	1				< RL	< RL	< RL	11
IT	23	10	< RL	< RL	< RL	< RL	< RL	< RL	4
LT									
LU									
LV									
MT	15	14	< RL	< RL	< RL	< RL	< RL	< RL	7
NL									
PL-N	5	5	< RL	< RL	< RL	< RL	< RL	< RL	12
PL-S	2	2	< RL	< RL	< RL	< RL	< RL	< RL	1
PL	7	7	< RL	< RL	< RL	< RL	< RL	< RL	12
PT	24	2	< RL	< RL	< RL	< RL	< RL	< RL	5
RO-N	17	4	< RL	< RL	< RL		< RL	< RL	6
RO-S	63	3	< RL	< RL	< RL	< RL	< RL	< RL	2
RO	80	7	< RL	< RL	< RL	< RL	< RL	< RL	2
SE-N	6	3		< RL		< RL	< RL	< RL	10
SE-S	6	3		< RL		< RL	< RL	< RL	4
SE	12	6		< RL		< RL	< RL	< RL	10
SI	18	13	< RL	< RL	< RL	< RL	< RL	< RL	2
SK	36	5	< RL	< RL	< RL	< RL	< RL	< RL	10

RL: reporting level for ^{90}Sr In drinking water, i.e. 6.0 E-02 BQ/L (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
L: Number of sampling locations considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

DENSE

Fig. W10: Geographical and time averages

YEAR	:	2018
SAMPLE TYPE	:	drinking water (Bq l $^{-1}$)
NUCLIDE CATEGORY	:	strontium-90 (^{90}Sr)

EU (no relevant data reported)

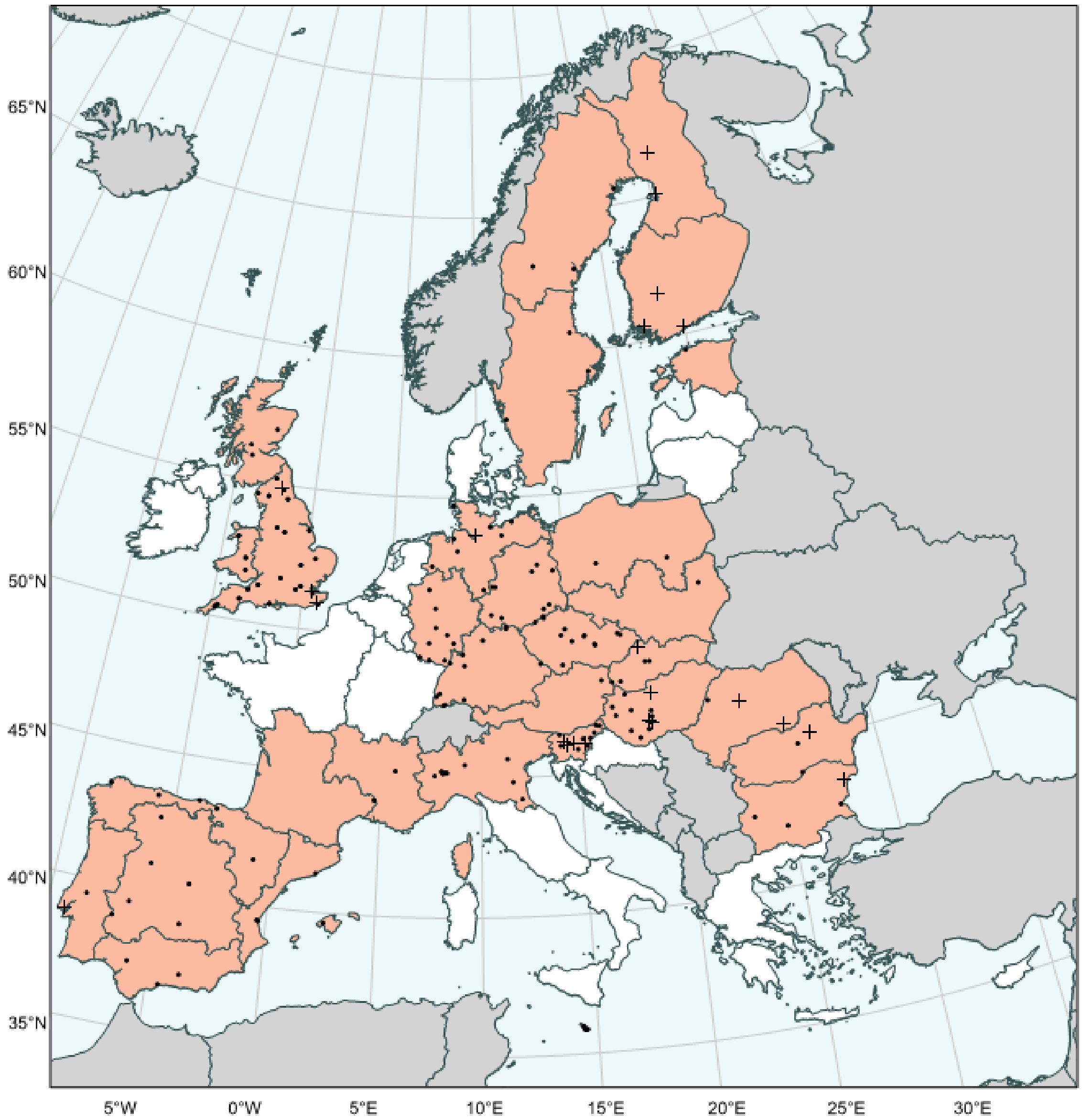
EU (only relevant constraint values above the reporting level reported)

Outside EU (in 2018)

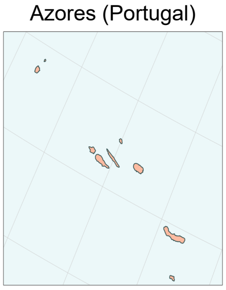
			annual avg.	<	0.06	Bq l $^{-1}$
0.06	Bq l $^{-1}$	<=	annual avg.	<	0.18	Bq l $^{-1}$
0.18	Bq l $^{-1}$	<=	annual avg.	<	0.6	Bq l $^{-1}$
0.6	Bq l $^{-1}$	<=	annual avg.			

. sample location (Coordinate Accuracy = Precise or Not Specified)

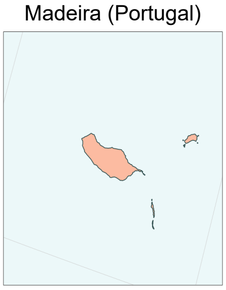
\+ regional average (Coordinate Accuracy = Reference Point of Region)



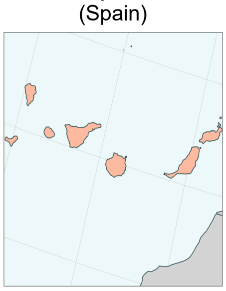
Azores (Portugal)



Madeira (Portugal)



Canary Islands (Spain)



Malta

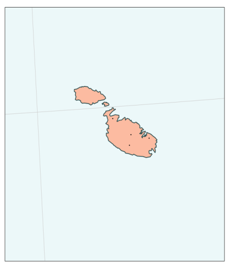


Table W10: Geographical and time averages

YEAR : 2018
SAMPLE TYPE : drinking water (Bq l $^{-1}$)
NUCLIDE CATEGORY : strontium-90 (^{90}Sr)

Country	N	L	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual average	Monthly max	M
AT	4	1	< RL	< RL	< RL	< RL	< RL	< RL	7
BE									
BG	18	4	< RL	< RL	< RL	< RL	< RL	< RL	8
CY									
CZ	34	13	< RL	< RL	< RL	< RL	< RL	< RL	1
DE-N	26	9	< RL	< RL	< RL	< RL	< RL	< RL	7
DE-C	19	9	< RL	< RL	< RL	< RL	< RL	< RL	11
DE-S	20	12	< RL	< RL	< RL	< RL	< RL	< RL	9
DE-E	22	9	< RL	< RL	< RL	< RL	< RL	< RL	2
DE	87	39	< RL	< RL	< RL	< RL	< RL	< RL	10
DK									
EE	2	1	< RL			< RL	< RL	< RL	2
ES-N	30	5	< RL	< RL	< RL	< RL	< RL	< RL	9
ES-C	44	7	< RL	< RL	< RL	< RL	< RL	< RL	3
ES-S	32	4	< RL	< RL	< RL	< RL	< RL	< RL	7
ES-E	23	4	< RL	< RL	< RL	< RL	< RL	< RL	10
ES	129	20	< RL	< RL	< RL	< RL	< RL	< RL	4
FI-N	2	2				< RL	< RL	< RL	10
FI-S	3	3				< RL	< RL	< RL	10
FI	5	5				< RL	< RL	< RL	10
FR-NW									
FR-NE									
FR-SW	2	2				< RL	< RL	< RL	10
FR-SE	1	1	< RL				< RL	< RL	3
FR	3	3	< RL			< RL	< RL	< RL	10
GB-EN	82	40	< RL	< RL	< RL	< RL	< RL	< RL	1
GB-WL	10	5	< RL	< RL	< RL	< RL	< RL	< RL	1
GB-SC	18	3	< RL	< RL	< RL	< RL	< RL	< RL	8
GB-NI									
GB	110	48	< RL	< RL	< RL	< RL	< RL	< RL	2
GR									
HR-A									
HR-C									
HR									
HU	48	13	< RL	< RL	< RL	< RL	< RL	< RL	5
IE									
IT-N	29	11	< RL	< RL	< RL	< RL	< RL	< RL	7
IT-C									
IT-S									
IT	29	11	< RL	< RL	< RL	< RL	< RL	< RL	7
LT									
LU									
LV									
MT	5	5	< RL	< RL			< RL	< RL	1
NL									
PL-N	2	2	< RL	< RL	< RL	< RL	< RL	< RL	12
PL-S	1	1	< RL	< RL	< RL	< RL	< RL	< RL	1
PL	3	3	< RL	< RL	< RL	< RL	< RL	< RL	1
PT	24	2	< RL	< RL	< RL	< RL	< RL	< RL	8
RO-N	40	3	< RL	< RL	< RL	< RL	< RL	< RL	1
RO-S	70	3	< RL	< RL	< RL	< RL	< RL	< RL	9
RO	110	6	< RL	< RL	< RL	< RL	< RL	< RL	9
SE-N	5	3		< RL		< RL	< RL	< RL	10
SE-S	5	3		< RL	< RL	< RL	< RL	< RL	9
SE	10	6		< RL	< RL	< RL	< RL	< RL	10
SI	16	13	< RL	< RL	< RL	< RL	< RL	< RL	5
SK	36	5	< RL	< RL	< RL	< RL	< RL	< RL	9

RL: reporting level for ^{90}Sr In drinking water, i.e. 6.0 E-02 BQ/L (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
L: Number of sampling locations considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

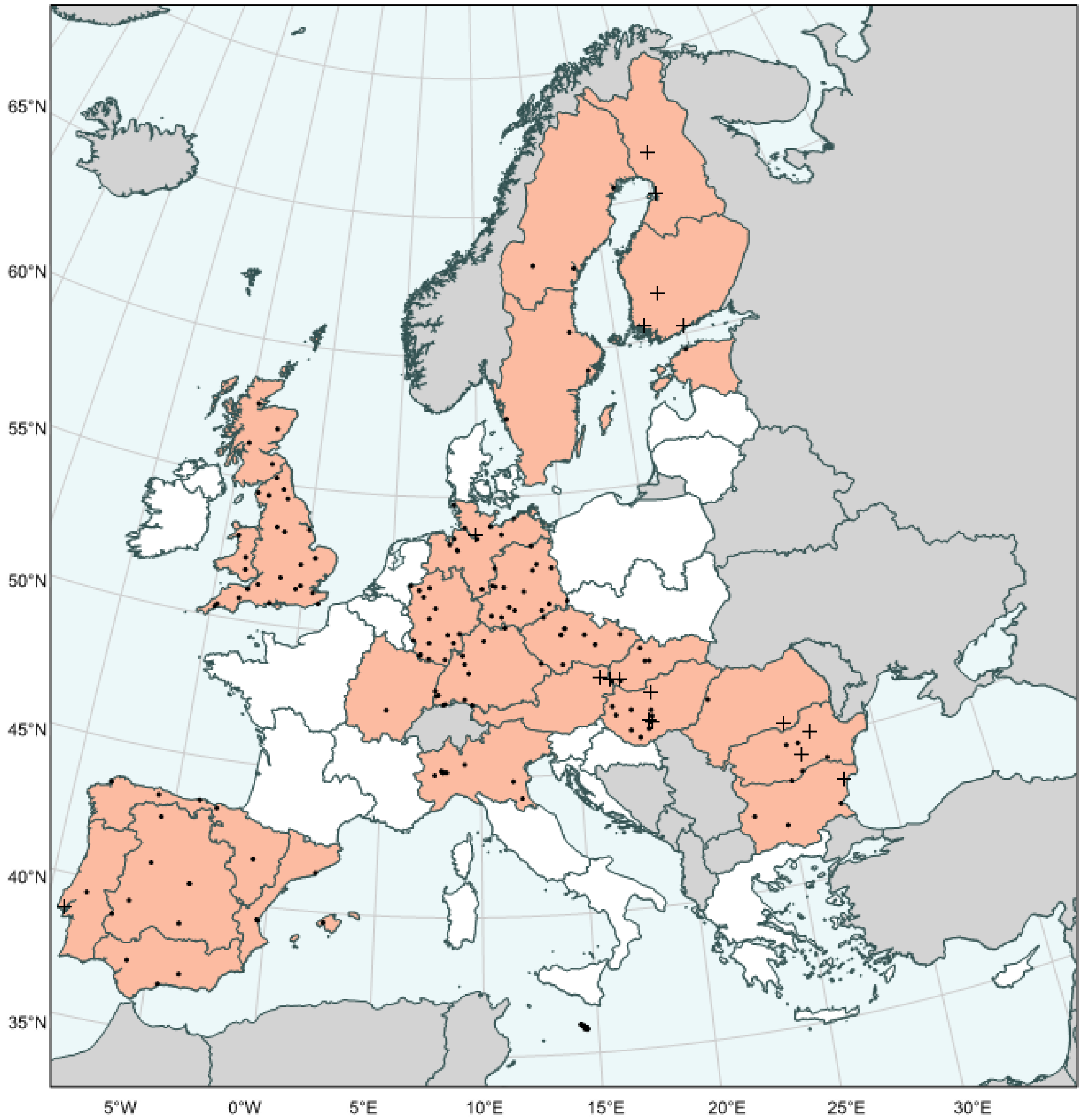
Fig. W11: Geographical and time averages

YEAR	:	2019
SAMPLE TYPE	:	drinking water (Bq l $^{-1}$)
NUCLIDE CATEGORY	:	strontium-90 (^{90}Sr)

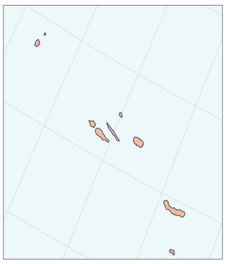
EU (no relevant data reported)
EU (only relevant constraint values above the reporting level reported)
Outside EU (in 2019)

annual avg. < 0.06 Bq l $^{-1}$
0.06 Bq l $^{-1}$ <= annual avg. < 0.18 Bq l $^{-1}$
0.18 Bq l $^{-1}$ <= annual avg. < 0.6 Bq l $^{-1}$
0.6 Bq l $^{-1}$ <= annual avg.

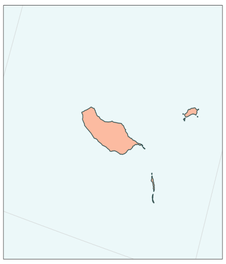
. sample location (Coordinate Accuracy = Precise or Not Specified)
+ regional average (Coordinate Accuracy = Reference Point of Region)



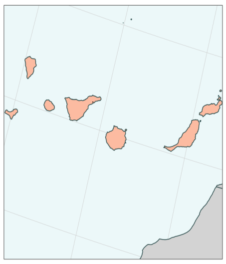
Azores (Portugal)



Madeira (Portugal)



Canary Islands (Spain)



Malta

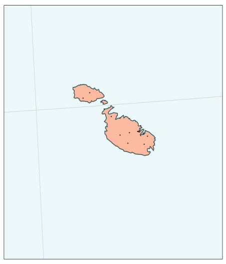


Table W11: Geographical and time averages

YEAR : 2019

SAMPLE TYPE : drinking water (Bq l $^{-1}$)

NUCLIDE CATEGORY : strontium-90 (^{90}Sr)

Country	N	L	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual average	Monthly max	M
AT	4	1	< RL	< RL	< RL	< RL	< RL	< RL	4
BE									
BG	18	4	1.1E-01	< RL	< RL	< RL	< RL	2.0E-01	1
CY									
CZ	30	9	< RL	< RL	< RL	< RL	< RL	< RL	1
DE-N	31	12	< RL	< RL	< RL	< RL	< RL	< RL	7
DE-C	32	15	< RL	< RL	< RL	< RL	< RL	< RL	10
DE-S	26	13	< RL	< RL	< RL	< RL	< RL	< RL	10
DE-E	41	16	< RL	< RL	< RL	< RL	< RL	1.0E-01	11
DE	130	56	< RL	< RL	< RL	< RL	< RL	< RL	11
DK									
EE	2	1	< RL			< RL	< RL	< RL	2
ES-N	28	5	< RL	< RL	< RL	< RL	< RL	< RL	4
ES-C	44	7	< RL	< RL	< RL	< RL	< RL	< RL	9
ES-S	32	4	< RL	< RL	< RL	< RL	< RL	< RL	6
ES-E	24	4	< RL	< RL	< RL	< RL	< RL	< RL	5
ES	128	20	< RL	< RL	< RL	< RL	< RL	< RL	6
FI-N	2	2		< RL			< RL	< RL	4
FI-S	3	3		< RL			< RL	< RL	5
FI	5	5		< RL			< RL	< RL	5
FR-NW									
FR-NE	1	1		< RL			< RL	< RL	5
FR-SW									
FR-SE									
FR	1	1		< RL			< RL	< RL	5
GB-EN	84	21	< RL	< RL	< RL	< RL	< RL	< RL	1
GB-WL	12	3	< RL	< RL	< RL	< RL	< RL	< RL	1
GB-SC	24	4	< RL	< RL	< RL	< RL	< RL	< RL	2
GB-NI									
GB	120	28	< RL	< RL	< RL	< RL	< RL	< RL	2
GR									
HR-A									
HR-C									
HR									
HU	44	12	< RL	< RL	< RL	< RL	< RL	< RL	3
IE									
IT-N	28	10	< RL	< RL	< RL	< RL	< RL	< RL	1
IT-C									
IT-S									
IT	28	10	< RL	< RL	< RL	< RL	< RL	< RL	1
LT									
LU									
LV									
MT	14	14	< RL	< RL	< RL	< RL	< RL	< RL	11
NL									
PL-N									
PL-S									
PL									
PT	24	2	< RL	< RL	< RL	< RL	< RL	< RL	5
RO-N	21	2	< RL	< RL	< RL		< RL	< RL	4
RO-S	43	7	< RL	< RL	< RL	< RL	< RL	< RL	6
RO	64	9	< RL	< RL	< RL	< RL	< RL	< RL	4
SE-N	6	3		< RL	< RL		< RL	< RL	9
SE-S	6	3		< RL	< RL	< RL	< RL	< RL	9
SE	12	6		< RL	< RL	< RL	< RL	< RL	9
SI									
SK	31	7	< RL	< RL	< RL	< RL	< RL	< RL	10

RL: reporting level for ^{90}Sr In drinking water, i.e. 6.0 E-02 BQ/L (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
L: Number of sampling locations considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

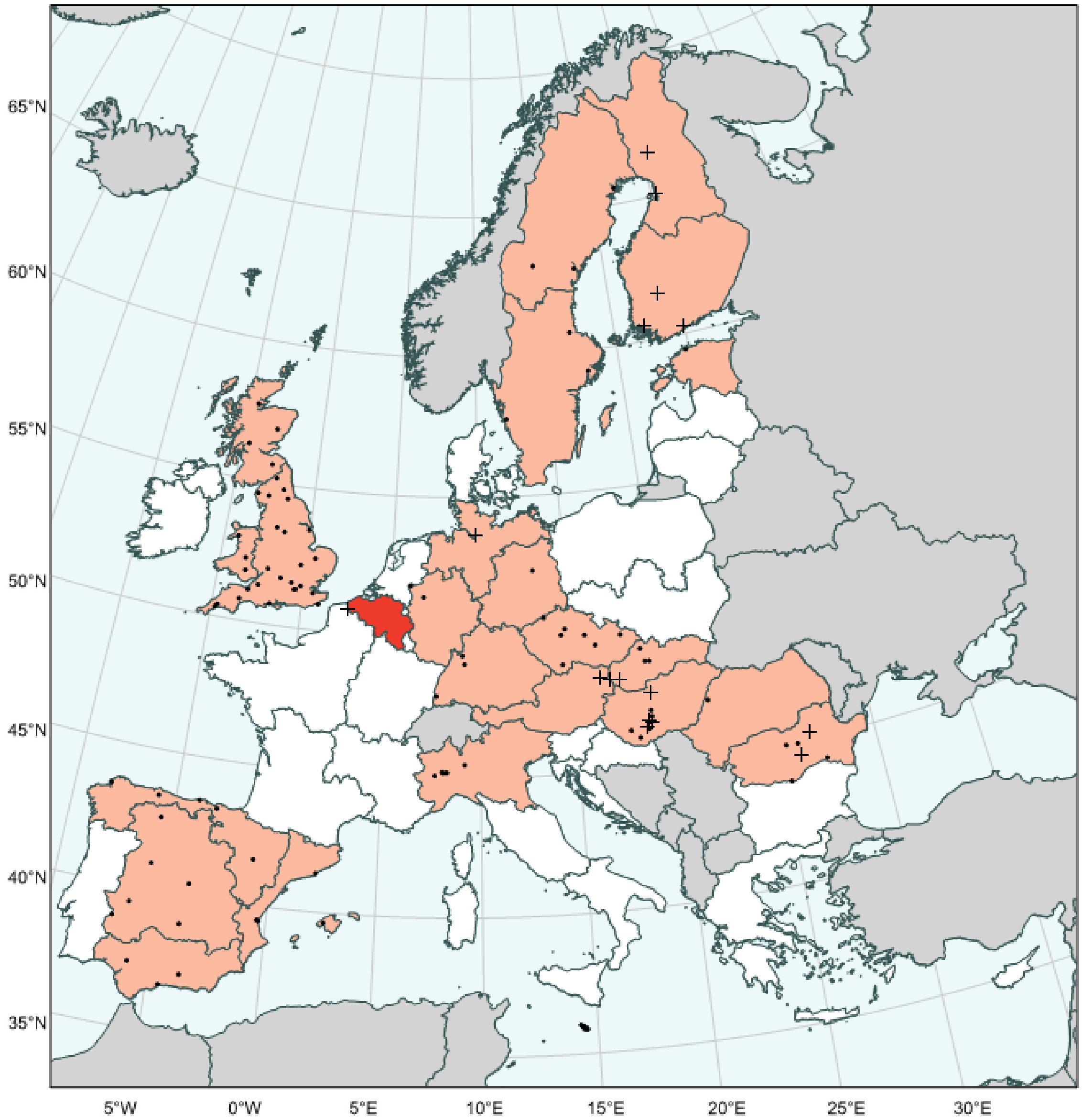
Fig. W12: Geographical and time averages

YEAR	:	2020
SAMPLE TYPE	:	drinking water (Bq l $^{-1}$)
NUCLIDE CATEGORY	:	strontium-90 (^{90}Sr)

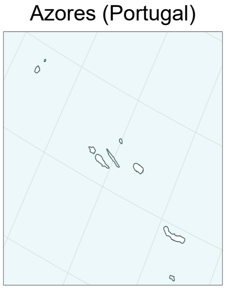
EU (no relevant data reported)			annual avg. < 0.06 Bq l $^{-1}$
EU (only relevant constraint values above the reporting level reported)		0.06 Bq l $^{-1}$ <=	annual avg. < 0.18 Bq l $^{-1}$
		0.18 Bq l $^{-1}$ <=	annual avg. < 0.6 Bq l $^{-1}$
Outside EU (in 2020)		0.6 Bq l $^{-1}$ <=	annual avg.

. sample location (Coordinate Accuracy = Precise or Not Specified)

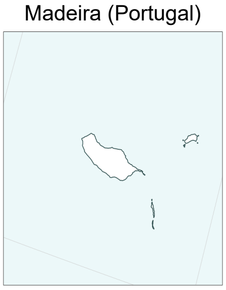
\+ regional average (Coordinate Accuracy = Reference Point of Region)



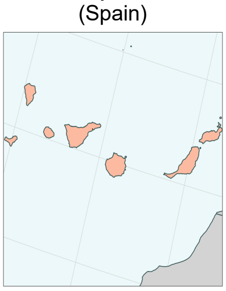
Azores (Portugal)



Madeira (Portugal)



Canary Islands (Spain)



Malta

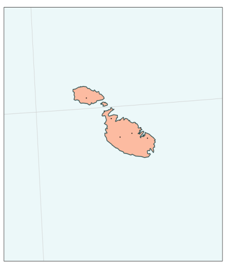


Table W12: Geographical and time averages

YEAR : 2020
SAMPLE TYPE : drinking water (Bq l $^{-1}$)
NUCLIDE CATEGORY : strontium-90 (^{90}Sr)

DENSE

Country	N	L	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual average	Monthly max	M
AT	4	1	< RL	< RL	< RL	< RL	< RL	< RL	1
BE	2	1		1.2E-01			1.2E-01	1.2E-01	5
BG									
CY									
CZ	27	7	< RL	< RL	< RL	< RL	< RL	< RL	1
DE-N	1	1	< RL				< RL	< RL	1
DE-C	2	2	< RL				< RL	< RL	1
DE-S	3	3	< RL				< RL	< RL	1
DE-E	1	1	< RL				< RL	< RL	1
DE	7	7	< RL				< RL	< RL	1
DK									
EE	2	1	< RL			< RL	< RL	< RL	3
ES-N	26	5	< RL	< RL	< RL	< RL	< RL	< RL	8
ES-C	42	7	< RL	< RL	< RL	< RL	< RL	< RL	3
ES-S	32	4	< RL	< RL	< RL	< RL	< RL	< RL	3
ES-E	24	4	< RL	< RL	< RL	< RL	< RL	< RL	9
ES	124	20	< RL	< RL	< RL	< RL	< RL	< RL	8
FI-N	2	2				< RL	< RL	< RL	11
FI-S	3	3				< RL	< RL	< RL	10
FI	5	5				< RL	< RL	< RL	10
FR-NW									
FR-NE									
FR-SW									
FR-SE									
FR									
GB-EN	40	24	< RL	< RL		< RL	< RL	< RL	1
GB-WL	5	3	< RL			< RL	< RL	< RL	1
GB-SC	24	4	< RL		< RL	< RL	< RL	< RL	9
GB-NI									
GB	69	31	< RL	< RL	< RL	< RL	< RL	< RL	9
GR									
HR-A									
HR-C									
HR									
HU	36	10	< RL	< RL	< RL	< RL	< RL	< RL	6
IE									
IT-N	20	6	< RL	< RL	< RL	< RL	< RL	< RL	3
IT-C									
IT-S									
IT	20	6	< RL	< RL	< RL	< RL	< RL	< RL	3
LT									
LU									
LV									
MT	9	9	< RL	< RL	< RL	< RL	< RL	< RL	2
NL									
PL-N									
PL-S									
PL									
PT									
RO-N	22	1	< RL	< RL	< RL	< RL	< RL	< RL	4
RO-S	46	6	< RL	< RL	< RL	< RL	< RL	< RL	2
RO	68	7	< RL	< RL	< RL	< RL	< RL	< RL	1
SE-N	6	3		< RL	< RL	< RL	< RL	< RL	5
SE-S	6	3		< RL	< RL		< RL	< RL	5
SE	12	6		< RL	< RL	< RL	< RL	< RL	5
SI									
SK	22	5	< RL	< RL	< RL	< RL	< RL	< RL	3

RL: reporting level for ^{90}Sr In drinking water, i.e. 6.0 E-02 BQ/L (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
L: Number of sampling locations considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

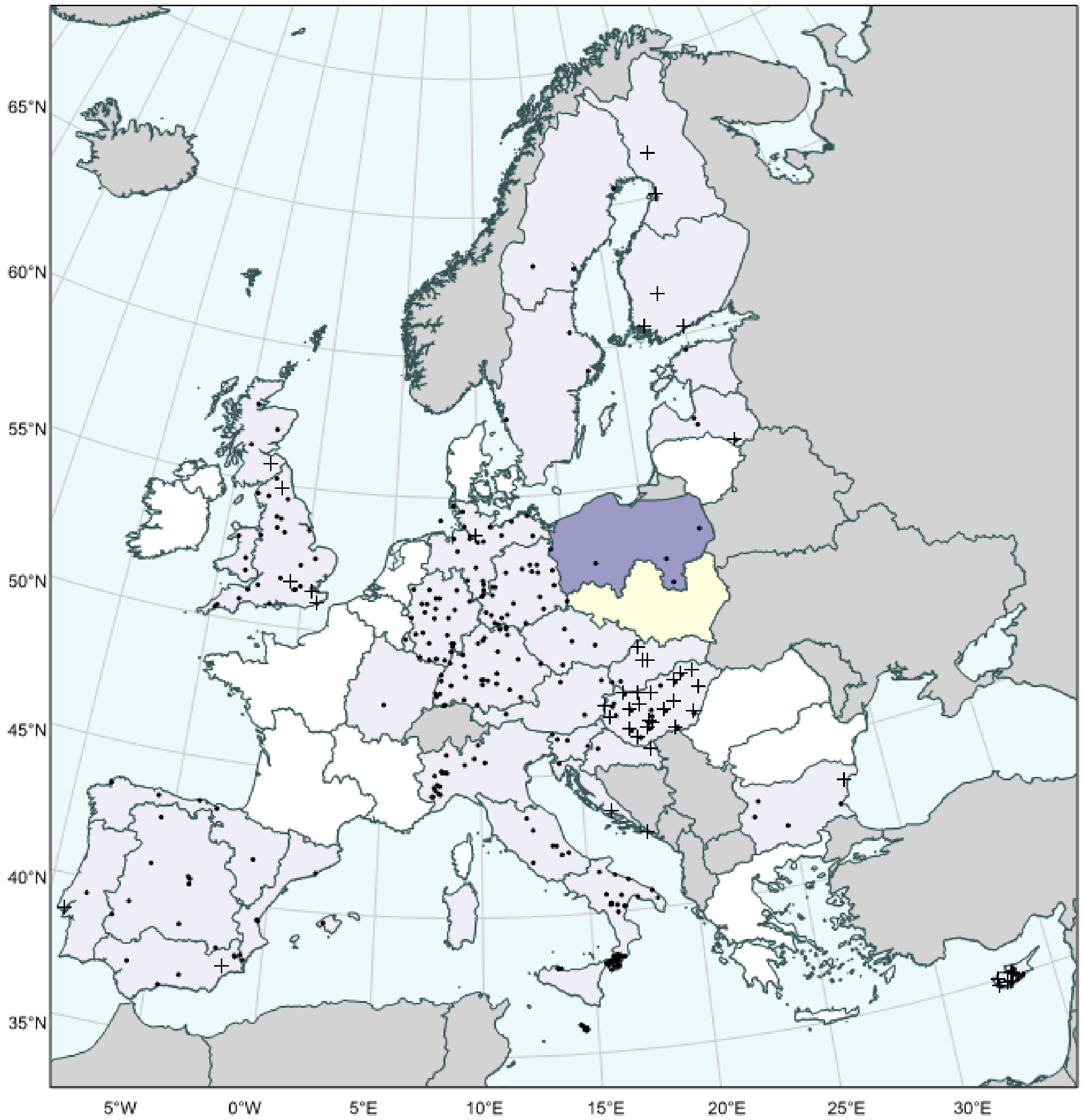
Fig. W13: Geographical and time averages

YEAR	:	2015
SAMPLE TYPE	:	drinking water (Bq l $^{-1}$)
NUCLIDE CATEGORY	:	caesium-137 (^{137}Cs)

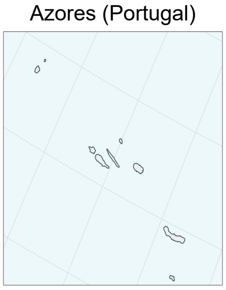
EU (no relevant data reported)	annual avg. < 0.1 Bq l $^{-1}$
EU (only relevant constraint values above the reporting level reported)	0.1 Bq l $^{-1}$ <= annual avg. < 0.3 Bq l $^{-1}$
	0.3 Bq l $^{-1}$ <= annual avg. < 1 Bq l $^{-1}$
Outside EU (in 2015)	1 Bq l $^{-1}$ <= annual avg.

. sample location (Coordinate Accuracy = Precise or Not Specified)

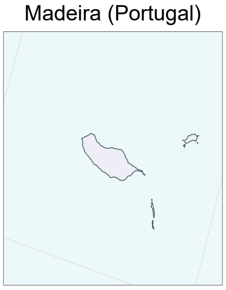
+ regional average (Coordinate Accuracy = Reference Point of Region)



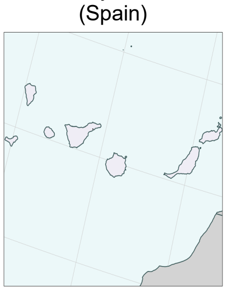
Azores (Portugal)



Madeira (Portugal)



Canary Islands (Spain)



Malta

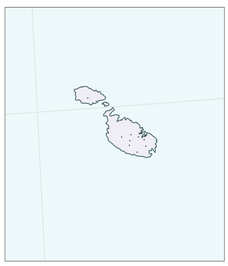


Table W13: Geographical and time averages

YEAR : **2015**
SAMPLE TYPE : **drinking water (Bq l^{-1})**
NUCLIDE CATEGORY : **caesium-137 (^{137}Cs)**

Country	N	L	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual average	Monthly max	M
AT	52	4	< RL	< RL	< RL	< RL	< RL	< RL	2
BE									
BG	21	5	< RL	< RL	< RL	< RL	< RL	< RL	3
CY	35	21		< RL		< RL	< RL	< RL	11
CZ	15	4	< RL	< RL	< RL	< RL	< RL	< RL	7
DE-N	69	21	< RL	< RL	< RL	< RL	< RL	< RL	6
DE-C	69	26	< RL	< RL	< RL	< RL	< RL	< RL	2
DE-S	115	34	< RL	< RL	< RL	< RL	< RL	< RL	12
DE-E	87	24	< RL	< RL	< RL	< RL	< RL	< RL	5
DE	340	105	< RL	< RL	< RL	< RL	< RL	< RL	2
DK									
EE	2	1	< RL			< RL	< RL	< RL	3
ES-N	60	5	< RL	< RL	< RL	< RL	< RL	< RL	1
ES-C	82	10	< RL	< RL	< RL	< RL	< RL	< RL	10
ES-S	59	8	< RL	< RL	< RL	< RL	< RL	< RL	5
ES-E	49	5	< RL	< RL	< RL	< RL	< RL	< RL	9
ES	250	28	< RL	< RL	< RL	< RL	< RL	< RL	6
FI-N	4	2		< RL		< RL	< RL	< RL	10
FI-S	6	3		< RL		< RL	< RL	< RL	10
FI	10	5		< RL		< RL	< RL	< RL	10
FR-NW									
FR-NE	1	1		< RL			< RL	< RL	4
FR-SW									
FR-SE									
FR	1	1		< RL			< RL	< RL	4
GB-EN	111	25	< RL	< RL	< RL	< RL	< RL	< RL	10
GB-WL	15	4	< RL	< RL	< RL	< RL	< RL	< RL	12
GB-SC	23	4	< RL	< RL	< RL	< RL	< RL	< RL	4
GB-NI									
GB	149	33	< RL	< RL	< RL	< RL	< RL	< RL	10
GR									
HR-A	3	3		< RL	< RL		< RL	< RL	6
HR-C	6	2	< RL	< RL	< RL	< RL	< RL	< RL	9
HR	9	5	< RL	< RL	< RL	< RL	< RL	< RL	6
HU	120	41	< RL	< RL	< RL	< RL	< RL	< RL	10
IE									
IT-N	71	19	< RL	< RL	< RL	< RL	< RL	< RL	5
IT-C	8	7		< RL		< RL	< RL	< RL	6
IT-S	84	47	< RL	< RL	< RL	< RL	< RL	< RL	2
IT	163	73	< RL	< RL	< RL	< RL	< RL	< RL	2
LT									
LU	26	1	< RL	< RL	< RL	< RL	< RL	< RL	4
LV	16	4	< RL	< RL	< RL	< RL	< RL	< RL	9
MT	14	13	< RL	< RL	< RL	< RL	< RL	< RL	2
NL									
PL-N	6	4	1.5E-01	1.5E-01	1.5E-01	1.4E-01	1.5E-01	1.5E-01	1
PL-S							Δ		
PL	6	4	1.5E-01	1.5E-01	1.5E-01	1.4E-01	1.5E-01	1.5E-01	1
PT	24	2	< RL	< RL	< RL	< RL	< RL	< RL	6
RO-N									
RO-S									
RO									
SE-N	6	3	< RL	< RL	< RL		< RL	< RL	3
SE-S	6	3	< RL		< RL	< RL	< RL	< RL	9
SE	12	6	< RL	< RL	< RL	< RL	< RL	< RL	3
SI	5	4		< RL		< RL	< RL	< RL	10
SK	33	5	< RL	< RL	< RL	< RL	< RL	< RL	3

RL: reporting level for ^{137}Cs In drinking water, i.e. 1.0 E-01 BQ/L (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
L: Number of sampling locations considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

DENSE

Fig. W14: Geographical and time averages

YEAR : 2016

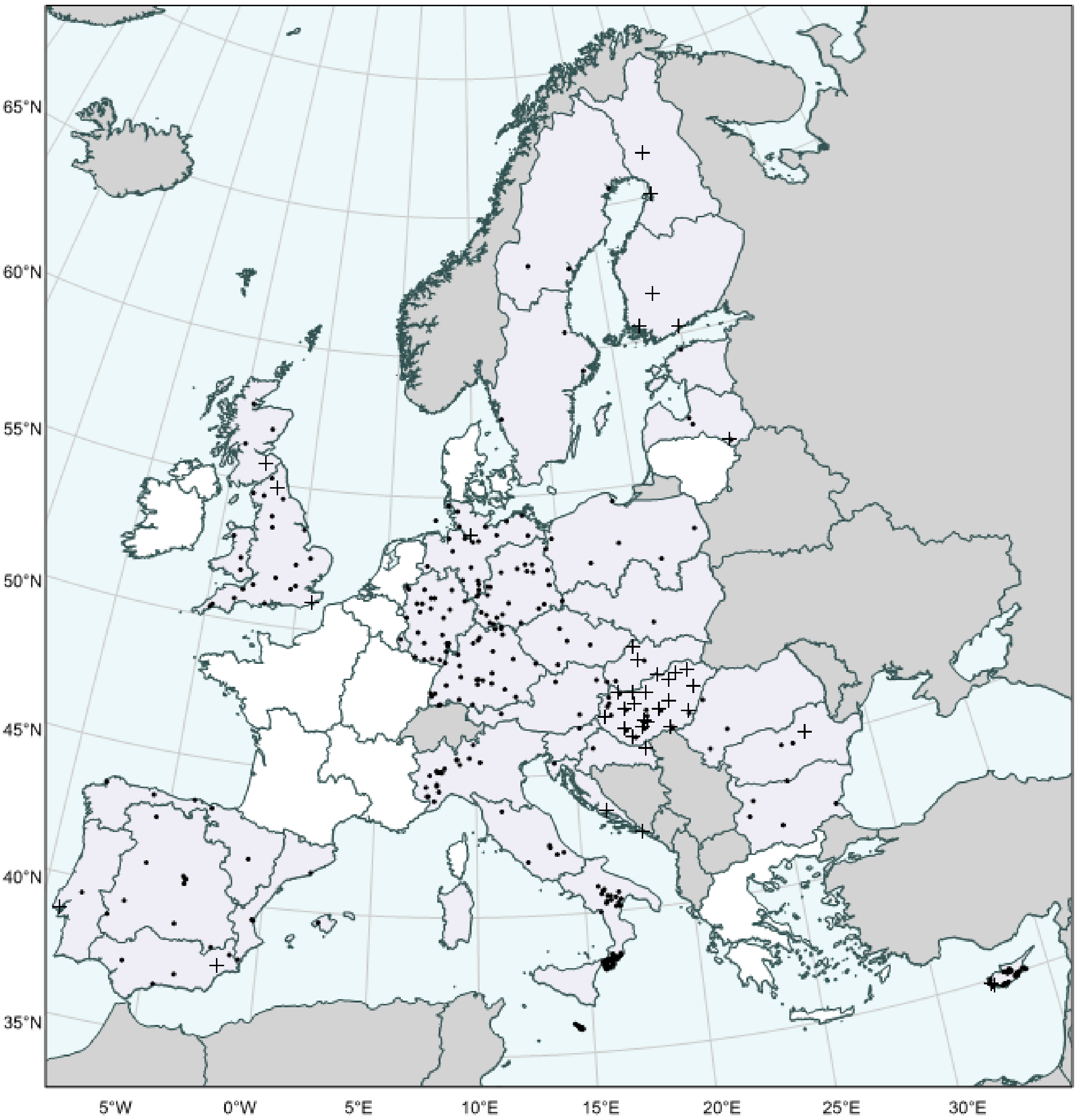
SAMPLE TYPE : drinking water (Bq l $^{-1}$)

NUCLIDE CATEGORY : caesium-137 (^{137}Cs)

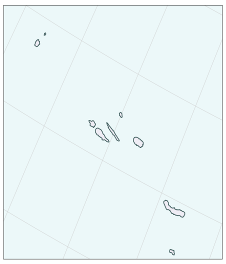
EU (no relevant data reported)
EU (only relevant constraint values above the reporting level reported)
Outside EU (in 2016)

annual avg. < 0.1 Bq l $^{-1}$
0.1 Bq l $^{-1}$ <= annual avg. < 0.3 Bq l $^{-1}$
0.3 Bq l $^{-1}$ <= annual avg. < 1 Bq l $^{-1}$
1 Bq l $^{-1}$ <= annual avg.

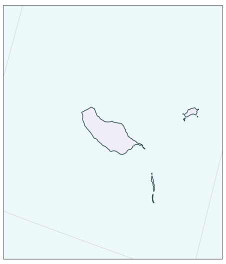
. sample location (Coordinate Accuracy = Precise or Not Specified)
+ regional average (Coordinate Accuracy = Reference Point of Region)



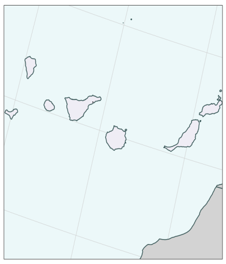
Azores (Portugal)



Madeira (Portugal)



Canary Islands (Spain)



Malta

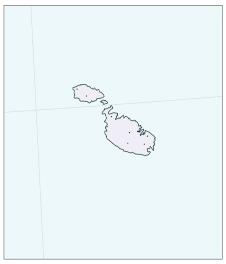


Table W14: Geographical and time averages

DENSE

YEAR : 2016

SAMPLE TYPE : drinking water (Bq l $^{-1}$)

NUCLIDE CATEGORY : caesium-137 (^{137}Cs)

Country	N	L	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual average	Monthly max	M
AT	52	4	< RL	< RL	< RL	< RL	< RL	< RL	1
BE									
BG	17	4	< RL	< RL	< RL	< RL	< RL	< RL	7
CY	55	44	< RL	< RL	< RL		< RL	< RL	1
CZ	16	4	< RL	< RL	< RL	< RL	< RL	< RL	9
DE-N	69	22	< RL	< RL	< RL	< RL	< RL	< RL	5
DE-C	67	24	< RL	< RL	< RL	< RL	< RL	< RL	11
DE-S	130	32	< RL	< RL	< RL	< RL	< RL	< RL	4
DE-E	85	24	< RL	< RL	< RL	< RL	< RL	< RL	1
DE	351	102	< RL	< RL	< RL	< RL	< RL	< RL	4
DK									
EE	2	1	< RL			< RL	< RL	< RL	3
ES-N	60	5	< RL	< RL	< RL	< RL	< RL	< RL	6
ES-C	94	11	< RL	< RL	< RL	< RL	< RL	< RL	4
ES-S	59	6	< RL	< RL	< RL	< RL	< RL	< RL	12
ES-E	52	5	< RL	< RL	< RL	< RL	< RL	< RL	3
ES	265	27	< RL	< RL	< RL	< RL	< RL	< RL	3
FI-N	4	2		< RL		< RL	< RL	< RL	4
FI-S	6	3		< RL		< RL	< RL	< RL	4
FI	10	5		< RL		< RL	< RL	< RL	4
FR-NW									
FR-NE									
FR-SW									
FR-SE									
FR									
GB-EN	75	20	< RL	< RL	< RL	< RL	< RL	< RL	1
GB-WL	12	3	< RL	< RL	< RL	< RL	< RL	< RL	9
GB-SC	24	4	< RL	< RL	< RL	< RL	< RL	< RL	12
GB-NI									
GB	111	27	< RL	< RL	< RL	< RL	< RL	< RL	2
GR									
HR-A	3	3		< RL			< RL	< RL	6
HR-C	6	2	< RL	< RL	< RL	< RL	< RL	< RL	9
HR	9	5	< RL	< RL	< RL	< RL	< RL	< RL	9
HU	125	36	< RL	< RL	< RL	< RL	< RL	< RL	5
IE									
IT-N	85	21	< RL	< RL	< RL	< RL	< RL	< RL	11
IT-C	7	6				< RL	< RL	< RL	10
IT-S	121	56	< RL	< RL	< RL	< RL	< RL	1.0E-01	1
IT	213	83	< RL	< RL	< RL	< RL	< RL	< RL	6
LT									
LU	4	1		< RL	< RL	< RL	< RL	< RL	11
LV	16	4	< RL	< RL	< RL	< RL	< RL	< RL	4
MT	12	12	< RL	< RL	< RL	< RL	< RL	< RL	8
NL									
PL-N	6	6	< RL	< RL	< RL	< RL	< RL	< RL	1
PL-S	1	1				< RL	< RL	< RL	12
PL	7	7	< RL	< RL	< RL	< RL	< RL	< RL	1
PT	24	2	< RL	< RL	< RL	< RL	< RL	< RL	2
RO-N	11	3		< RL	< RL	< RL	< RL	< RL	4
RO-S	87	4		< RL	< RL	< RL	< RL	< RL	6
RO	98	7		< RL	< RL	< RL	< RL	< RL	4
SE-N	6	3		< RL	< RL		< RL	< RL	4
SE-S	6	3		< RL	< RL		< RL	< RL	4
SE	12	6		< RL	< RL		< RL	< RL	4
SI	1	1		< RL			< RL	< RL	5
SK	30	5	< RL	< RL	< RL	< RL	< RL	< RL	6

RL: reporting level for ^{137}Cs In drinking water, i.e. 1.0 E-01 BQ/L (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
L: Number of sampling locations considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

DENSE

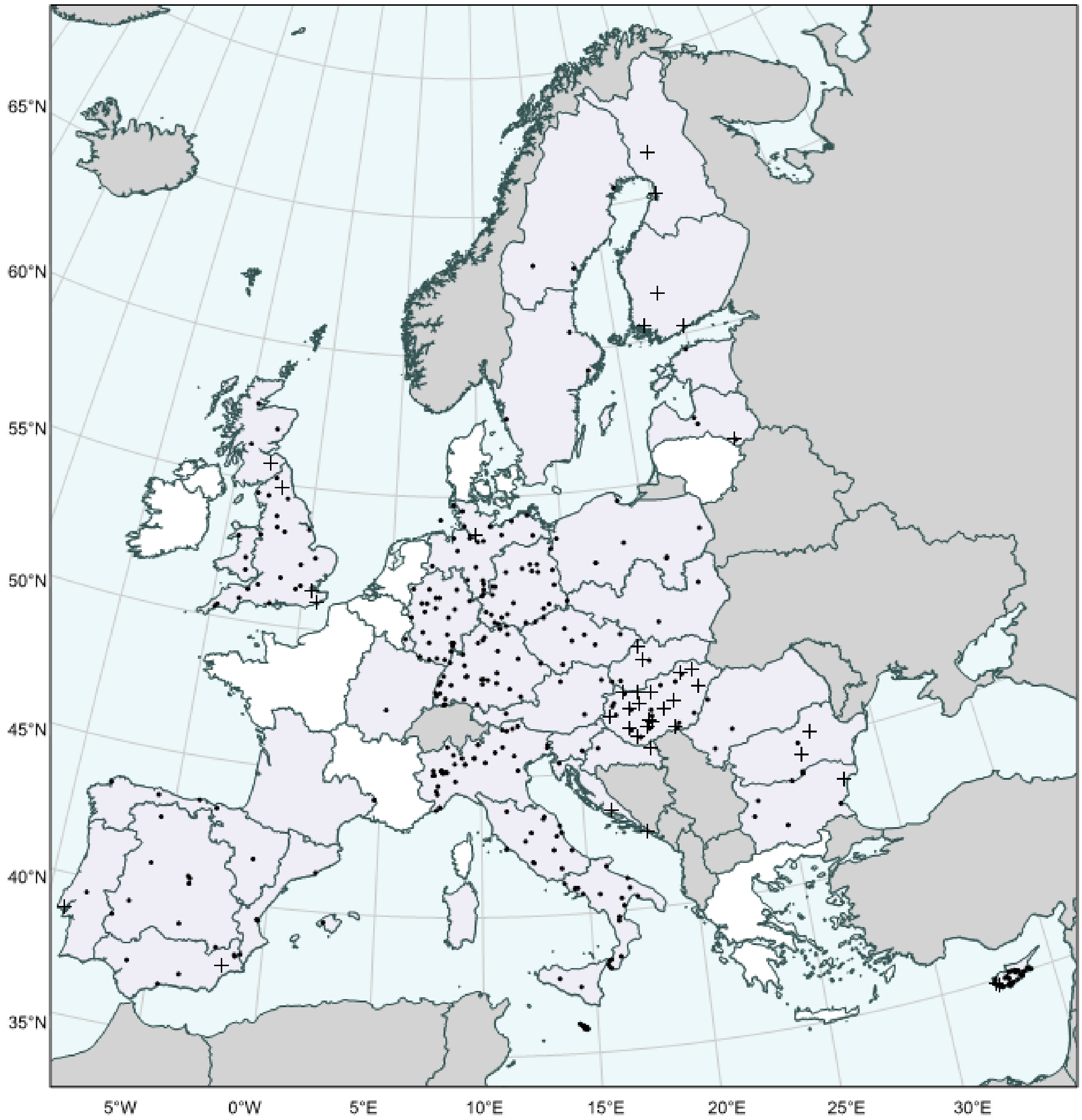
Fig. W15: Geographical and time averages

YEAR	:	2017
SAMPLE TYPE	:	drinking water (Bq l $^{-1}$)
NUCLIDE CATEGORY	:	caesium-137 (^{137}Cs)

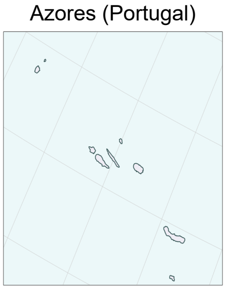
EU (no relevant data reported)			annual avg. < 0.1 Bq l $^{-1}$
EU (only relevant constraint values above the reporting level reported)		0.1 Bq l $^{-1}$ <=	annual avg. < 0.3 Bq l $^{-1}$
		0.3 Bq l $^{-1}$ <=	annual avg. < 1 Bq l $^{-1}$
Outside EU (in 2017)		1 Bq l $^{-1}$ <=	annual avg.

. sample location (Coordinate Accuracy = Precise or Not Specified)

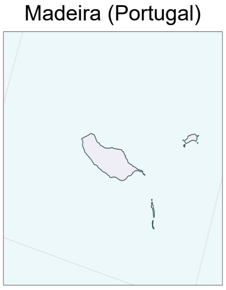
+ regional average (Coordinate Accuracy = Reference Point of Region)



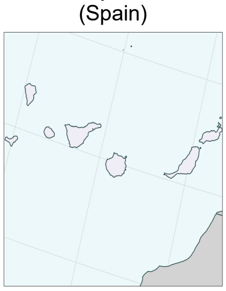
Azores (Portugal)



Madeira (Portugal)



Canary Islands (Spain)



Malta

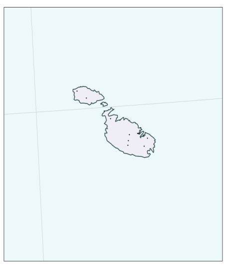


Table W15: Geographical and time averages

YEAR : 2017
SAMPLE TYPE : drinking water (Bq l $^{-1}$)
NUCLIDE CATEGORY : caesium-137 (^{137}Cs)

Country	N	L	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual average	Monthly max	M
AT	52	4	< RL	< RL	< RL	< RL	< RL	< RL	4
BE									
BG	25	6	< RL	< RL	< RL	< RL	< RL	1.2E-01	1
CY	43	43		< RL	< RL		< RL	< RL	7
CZ	61	8	< RL	< RL	< RL	< RL	< RL	< RL	4
DE-N	67	22	< RL	< RL	< RL	< RL	< RL	< RL	2
DE-C	67	23	< RL	< RL	< RL	< RL	< RL	< RL	5
DE-S	133	36	< RL	< RL	< RL	< RL	< RL	< RL	12
DE-E	90	24	< RL	< RL	< RL	< RL	< RL	< RL	8
DE	357	105	< RL	< RL	< RL	< RL	< RL	< RL	8
DK									
EE	2	1	< RL			< RL	< RL	< RL	2
ES-N	59	5	< RL	< RL	< RL	< RL	< RL	< RL	5
ES-C	87	10	< RL	< RL	< RL	< RL	< RL	< RL	9
ES-S	57	8	< RL	< RL	< RL	< RL	< RL	< RL	9
ES-E	48	4	< RL	< RL	< RL	< RL	< RL	< RL	12
ES	251	27	< RL	< RL	< RL	< RL	< RL	< RL	9
FI-N	4	2		< RL		< RL	< RL	< RL	4
FI-S	6	3		< RL		< RL	< RL	< RL	10
FI	10	5		< RL		< RL	< RL	< RL	10
FR-NW									
FR-NE	1	1		< RL			< RL	< RL	5
FR-SW	6	2	< RL	< RL	< RL	< RL	< RL	< RL	4
FR-SE									
FR	7	3	< RL	< RL	< RL	< RL	< RL	< RL	5
GB-EN	82	22	< RL	< RL	< RL	< RL	< RL	< RL	10
GB-WL	13	4	< RL	< RL	< RL	< RL	< RL	< RL	1
GB-SC	24	4	< RL	< RL	< RL	< RL	< RL	< RL	7
GB-NI									
GB	119	30	< RL	< RL	< RL	< RL	< RL	< RL	7
GR									
HR-A	3	3			< RL		< RL	< RL	9
HR-C	5	2	< RL	< RL	< RL	< RL	< RL	< RL	5
HR	8	5	< RL	< RL	< RL	< RL	< RL	< RL	9
HU	106	35	< RL	< RL	< RL	< RL	< RL	< RL	6
IE									
IT-N	92	38	< RL	< RL	< RL	< RL	< RL	< RL	2
IT-C	25	14	< RL	< RL	< RL	< RL	< RL	< RL	1
IT-S	36	20	< RL	< RL	< RL	< RL	< RL	< RL	1
IT	153	72	< RL	< RL	< RL	< RL	< RL	< RL	2
LT									
LU	11	1	< RL	< RL	< RL	< RL	< RL	< RL	10
LV	16	4	< RL	< RL	< RL	< RL	< RL	< RL	9
MT	15	14	< RL	< RL	< RL	< RL	< RL	< RL	1
NL									
PL-N	8	7	< RL	< RL	< RL	< RL	< RL	< RL	1
PL-S	2	2	< RL	< RL	< RL	< RL	< RL	< RL	1
PL	10	9	< RL	< RL	< RL	< RL	< RL	< RL	1
PT	24	2	< RL	< RL	< RL	< RL	< RL	< RL	3
RO-N	13	3	< RL	< RL	< RL		< RL	< RL	4
RO-S	67	5	< RL	< RL	< RL	< RL	< RL	< RL	6
RO	80	8	< RL	< RL	< RL	< RL	< RL	< RL	4
SE-N	6	3		< RL		< RL	< RL	< RL	10
SE-S	6	3		< RL		< RL	< RL	< RL	5
SE	12	6		< RL		< RL	< RL	< RL	5
SI	1	1	< RL				< RL	< RL	2
SK	35	5	< RL	< RL	< RL	< RL	< RL	< RL	3

RL: reporting level for ^{137}Cs In drinking water, i.e. 1.0 E-01 BQ/L (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
L: Number of sampling locations considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

DENSE

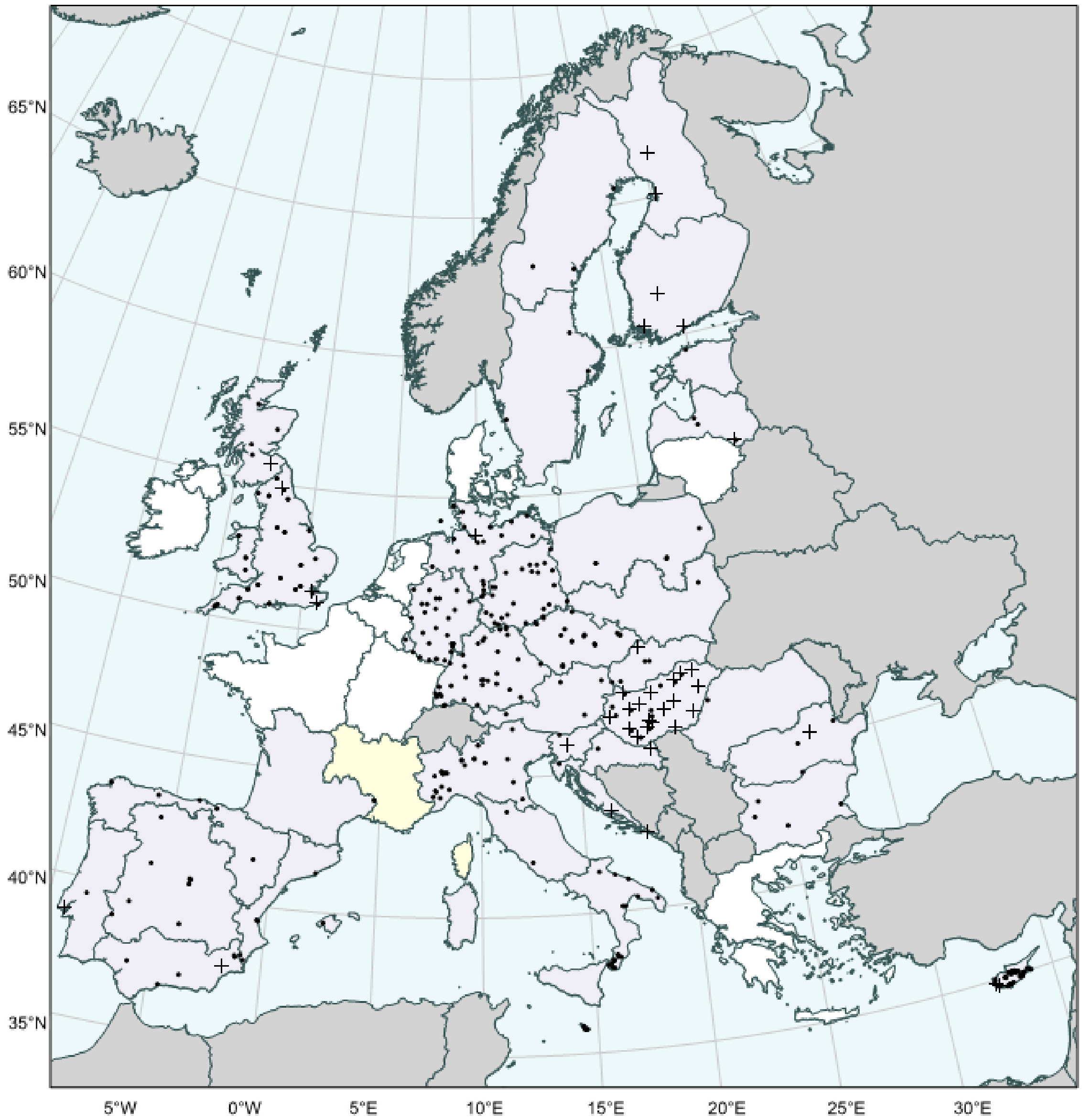
Fig. W16: Geographical and time averages

YEAR	:	**2018**
SAMPLE TYPE	:	**drinking water (Bq l $^{-1}$)**
NUCLIDE CATEGORY	:	**caesium-137 (^{137}Cs)**

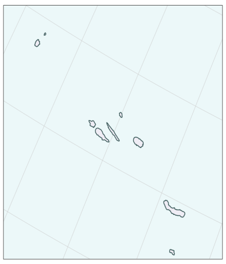
EU (no relevant data reported)				annual avg.	<	0.1	Bq l $^{-1}$
EU (only relevant constraint values above the reporting level reported)		0.1 Bq l $^{-1}$	<=	annual avg.	<	0.3	Bq l $^{-1}$
		0.3 Bq l $^{-1}$	<=	annual avg.	<	1	Bq l $^{-1}$
Outside EU (in 2018)		1 Bq l $^{-1}$	<=	annual avg.			

. sample location (Coordinate Accuracy = Precise or Not Specified)

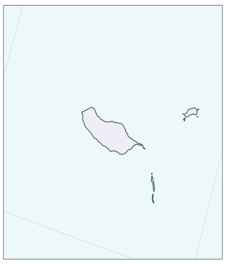
+ regional average (Coordinate Accuracy = Reference Point of Region)



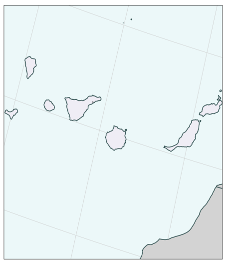
Azores (Portugal)



Madeira (Portugal)



Canary Islands (Spain)



Malta

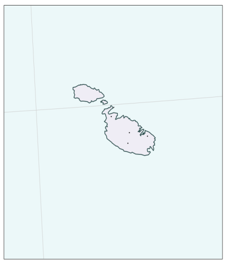


Table W16: Geographical and time averages

YEAR : **2018**
SAMPLE TYPE : **drinking water (Bq l $^{-1}$)**
NUCLIDE CATEGORY : **caesium-137 (^{137}Cs)**

DENSE

Country	N	L	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual average	Monthly max	M
AT	48	4	< RL	< RL	< RL	< RL	< RL	< RL	5
BE									
BG	17	4	< RL	< RL	< RL	< RL	< RL	< RL	7
CY	44	42			< RL	< RL	< RL	< RL	12
CZ	67	20	< RL	< RL	< RL	< RL	< RL	< RL	2
DE-N	67	20	< RL	< RL	< RL	< RL	< RL	< RL	2
DE-C	72	26	< RL	< RL	< RL	< RL	< RL	< RL	5
DE-S	122	35	< RL	< RL	< RL	< RL	< RL	< RL	8
DE-E	89	25	< RL	< RL	< RL	< RL	< RL	< RL	11
DE	350	106	< RL	< RL	< RL	< RL	< RL	< RL	2
DK									
EE	2	1	< RL			< RL	< RL	< RL	2
ES-N	61	5	< RL	< RL	< RL	< RL	< RL	< RL	6
ES-C	87	9	< RL	< RL	< RL	< RL	< RL	< RL	9
ES-S	58	8	< RL	< RL	< RL	< RL	< RL	< RL	6
ES-E	49	5	< RL	< RL	< RL	< RL	< RL	< RL	12
ES	255	27	< RL	< RL	< RL	< RL	< RL	< RL	9
FI-N	2	2				< RL	< RL	< RL	10
FI-S	3	3				< RL	< RL	< RL	10
FI	5	5				< RL	< RL	< RL	10
FR-NW									
FR-NE									
FR-SW	2	2				< RL	< RL	< RL	10
FR-SE							Δ		
FR	2	2				< RL	< RL	< RL	10
GB-EN	82	40	< RL	< RL	< RL	< RL	< RL	< RL	10
GB-WL	10	5	< RL	< RL	< RL	< RL	< RL	< RL	7
GB-SC	26	5	< RL	< RL	< RL	< RL	< RL	< RL	8
GB-NI									
GB	118	50	< RL	< RL	< RL	< RL	< RL	< RL	2
GR									
HR-A	3	3		< RL			< RL	< RL	5
HR-C	5	2	< RL	< RL	< RL	< RL	< RL	< RL	9
HR	8	5	< RL	< RL	< RL	< RL	< RL	< RL	6
HU	129	31	< RL	< RL	< RL	< RL	< RL	< RL	4
IE									
IT-N	90	25	< RL	< RL	< RL	< RL	< RL	< RL	6
IT-C	13	2	< RL	< RL	< RL	< RL	< RL	< RL	8
IT-S	27	18	< RL	< RL	< RL	< RL	< RL	< RL	6
IT	130	45	< RL	< RL	< RL	< RL	< RL	< RL	7
LT									
LU	13	1	< RL	< RL	< RL	< RL	< RL	< RL	7
LV	16	4	< RL	< RL	< RL	< RL	< RL	< RL	3
MT	5	5	< RL	< RL			< RL	< RL	1
NL									
PL-N	5	4	< RL	< RL	< RL	< RL	< RL	< RL	1
PL-S	1	1	< RL	< RL	< RL	< RL	< RL	< RL	12
PL	6	5	< RL	< RL	< RL	< RL	< RL	< RL	1
PT	24	2	< RL	< RL	< RL	< RL	< RL	< RL	1
RO-N	10	1	< RL	< RL	< RL	< RL	< RL	< RL	1
RO-S	79	4	< RL	< RL	< RL	< RL	< RL	< RL	10
RO	89	5	< RL	< RL	< RL	< RL	< RL	< RL	10
SE-N	6	3		< RL	< RL	< RL	< RL	< RL	10
SE-S	6	3		< RL	< RL	< RL	< RL	< RL	9
SE	12	6		< RL	< RL	< RL	< RL	< RL	9
SI	2	2	< RL	< RL			< RL	< RL	3
SK	36	5	< RL	< RL	< RL	< RL	< RL	< RL	9

RL: reporting level for ^{137}Cs In drinking water, i.e. 1.0 E-01 BQ/L (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
L: Number of sampling locations considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

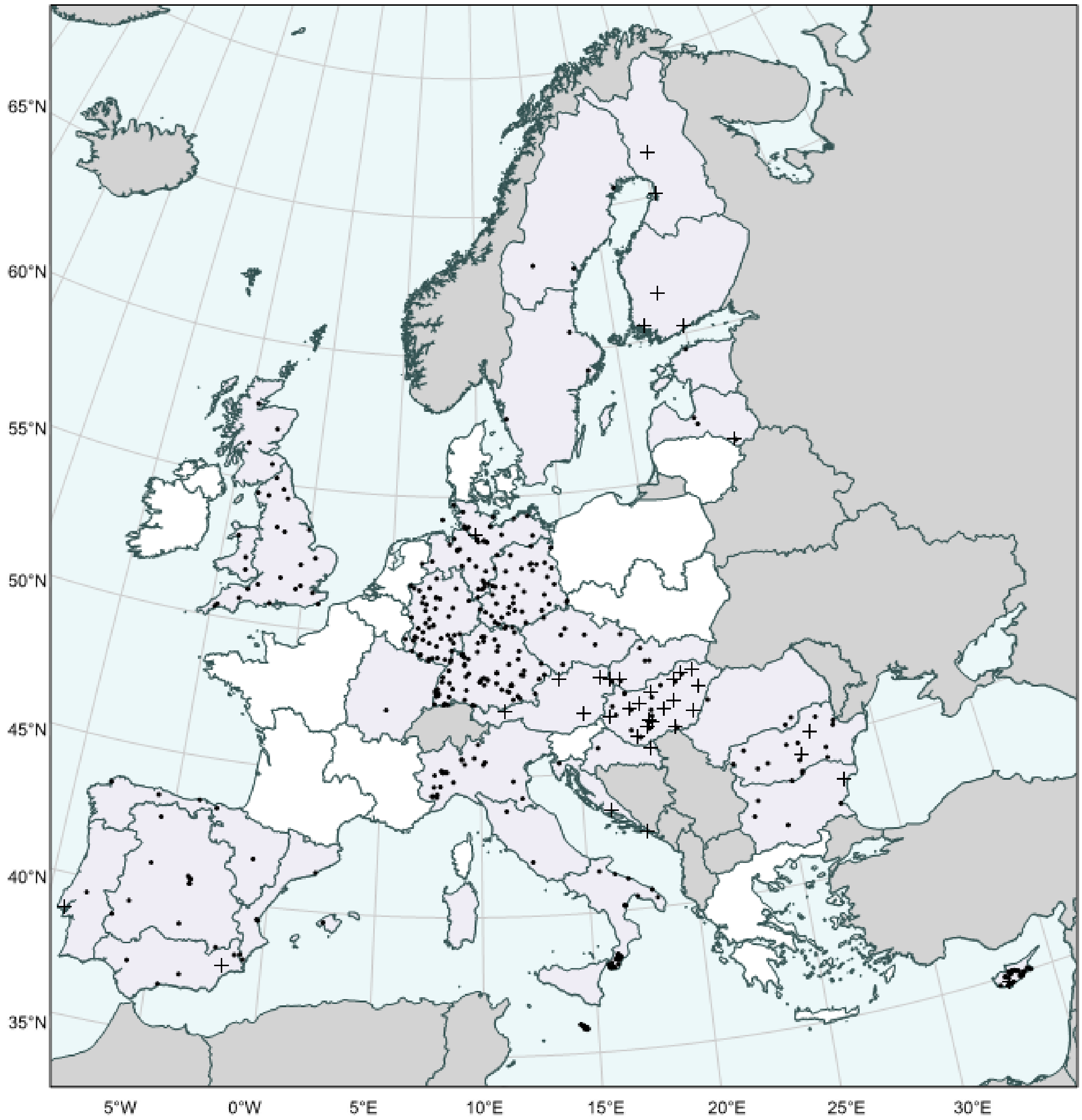
Fig. W17: **Geographical and time averages**

YEAR	:	2019
SAMPLE TYPE	:	drinking water (Bq l $^{-1}$)
NUCLIDE CATEGORY	:	caesium-137 (^{137}Cs)

EU (no relevant data reported)			annual avg. < 0.1 Bq l $^{-1}$
EU (only relevant constraint values above the reporting level reported)		0.1 Bq l $^{-1}$	<= annual avg. < 0.3 Bq l $^{-1}$
		0.3 Bq l $^{-1}$	<= annual avg. < 1 Bq l $^{-1}$
Outside EU (in 2019)		1 Bq l $^{-1}$	<= annual avg.

. sample location (Coordinate Accuracy = Precise or Not Specified)

+ regional average (Coordinate Accuracy = Reference Point of Region)



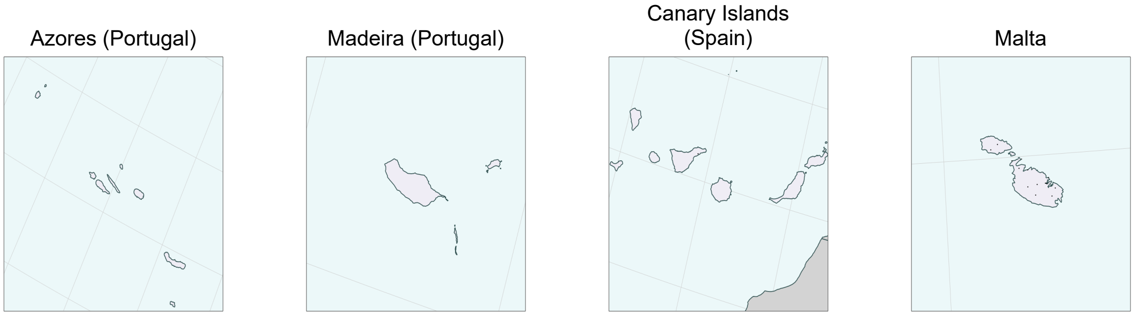


Table W17: Geographical and time averages

DENSE

YEAR	:	2019
SAMPLE TYPE	:	drinking water (Bq l $^{-1}$)
NUCLIDE CATEGORY	:	caesium-137 (^{137}Cs)

Country	N	L	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual average	Monthly max	M
AT	48	4	< RL	< RL	< RL	< RL	< RL	< RL	6
BE									
BG	24	6	< RL	< RL	< RL	< RL	< RL	< RL	7
CY	48	34	< RL		< RL	< RL	< RL	< RL	12
CZ	28	7	< RL	< RL	< RL	< RL	< RL	< RL	11
DE-N	157	39	< RL	< RL	< RL	< RL	< RL	< RL	1
DE-C	134	44	< RL	< RL	< RL	< RL	< RL	< RL	10
DE-S	364	76	< RL	< RL	< RL	< RL	< RL	< RL	9
DE-E	137	39	< RL	< RL	< RL	< RL	< RL	< RL	11
DE	792	198	< RL	< RL	< RL	< RL	< RL	< RL	7
DK									
EE	2	1	< RL			< RL	< RL	< RL	2
ES-N	60	5	< RL	< RL	< RL	< RL	< RL	< RL	1
ES-C	91	11	< RL	< RL	< RL	< RL	< RL	< RL	11
ES-S	56	7	< RL	< RL	< RL	< RL	< RL	< RL	12
ES-E	49	5	< RL	< RL	< RL	< RL	< RL	< RL	12
ES	256	28	< RL	< RL	< RL	< RL	< RL	< RL	3
FI-N	2	2		< RL			< RL	< RL	4
FI-S	3	3		< RL			< RL	< RL	5
FI	5	5		< RL			< RL	< RL	5
FR-NW									
FR-NE	1	1		< RL			< RL	< RL	5
FR-SW									
FR-SE									
FR	1	1		< RL			< RL	< RL	5
GB-EN	84	21	< RL	< RL	< RL	< RL	< RL	< RL	1
GB-WL	12	3	< RL	< RL	< RL	< RL	< RL	< RL	10
GB-SC	24	4	< RL	< RL	< RL	< RL	< RL	< RL	11
GB-NI									
GB	120	28	< RL	< RL	< RL	< RL	< RL	< RL	11
GR									
HR-A	3	3		< RL		< RL	< RL	< RL	4
HR-C	5	2	< RL	< RL	< RL	< RL	< RL	< RL	9
HR	8	5	< RL	< RL	< RL	< RL	< RL	< RL	9
HU	107	32	< RL	< RL	< RL	< RL	< RL	< RL	3
IE									
IT-N	82	24	< RL	< RL	< RL	< RL	< RL	< RL	2
IT-C	10	2	< RL	< RL	< RL	< RL	< RL	< RL	11
IT-S	50	26	< RL	< RL	< RL	< RL	< RL	< RL	12
IT	142	52	< RL	< RL	< RL	< RL	< RL	< RL	10
LT									
LU	22	2	< RL	< RL	< RL	< RL	< RL	< RL	12
LV	16	4	< RL	< RL	< RL	< RL	< RL	< RL	3
MT	14	14	< RL	< RL	< RL	< RL	< RL	< RL	1
NL									
PL-N									
PL-S									
PL									
PT	24	2	< RL	< RL	< RL	< RL	< RL	< RL	8
RO-N	133	3	< RL	< RL	< RL	< RL	< RL	< RL	4
RO-S	77	16	< RL	< RL	< RL	< RL	< RL	< RL	8
RO	210	19	< RL	< RL	< RL	< RL	< RL	< RL	4
SE-N	6	3		< RL	< RL		< RL	< RL	4
SE-S	6	3		< RL	< RL	< RL	< RL	< RL	10
SE	12	6		< RL	< RL	< RL	< RL	< RL	10
SI									
SK	33	7	< RL	< RL	< RL	< RL	< RL	< RL	6

RL: reporting level for ^{137}Cs In drinking water, i.e. 1.0 E-01 BQ/L (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
L: Number of sampling locations considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

DENSE

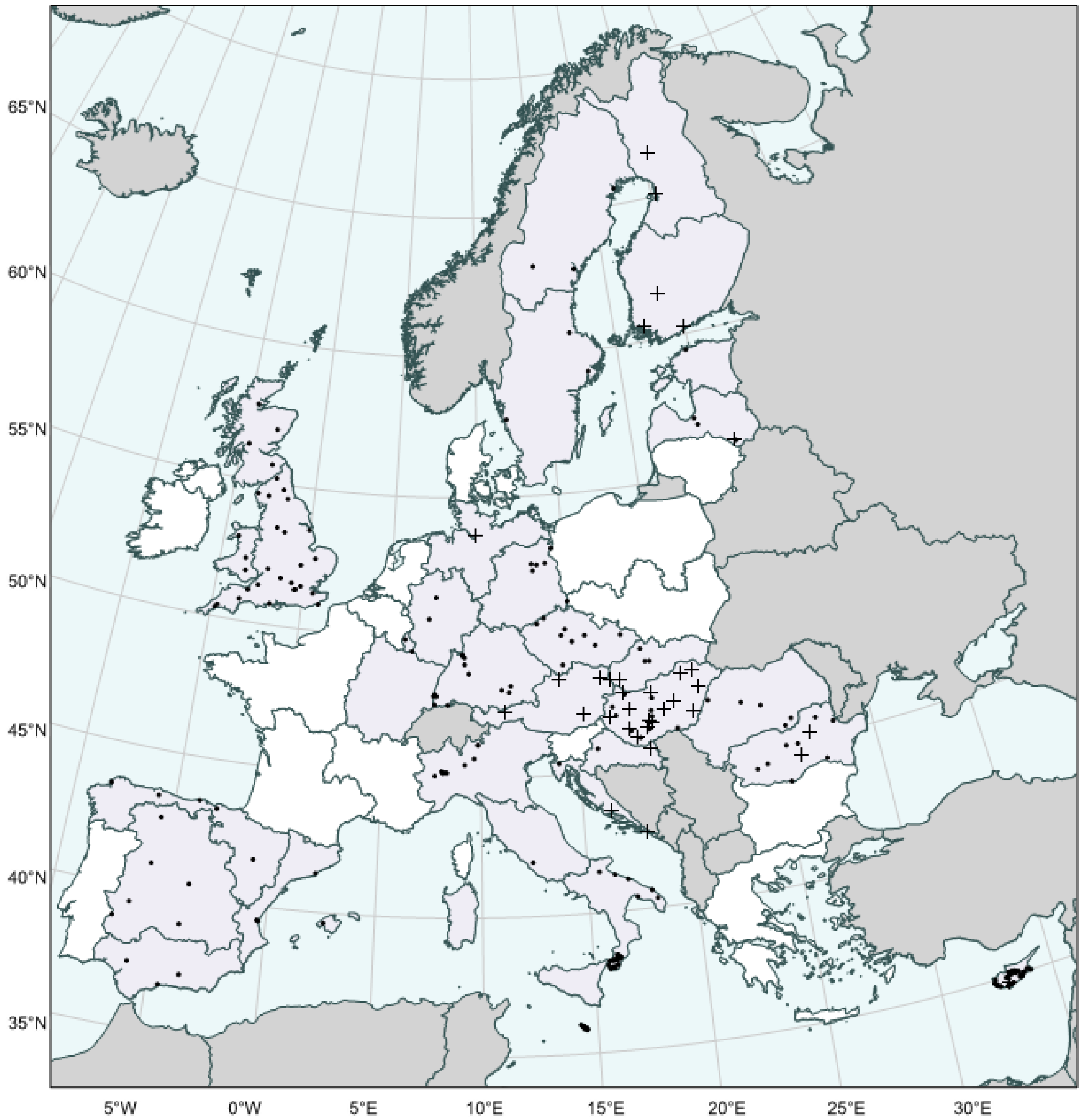
Fig. W18: Geographical and time averages

YEAR	:	2020
SAMPLE TYPE	:	drinking water (Bq l^{-1})
NUCLIDE CATEGORY	:	caesium-137 (^{137}Cs)

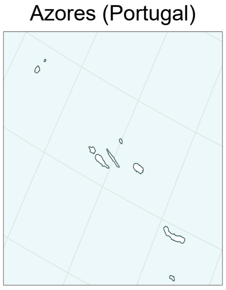
Legend						
EU (no relevant data reported)				annual avg. <	0.1	Bq l^{-1}
EU (only relevant constraint values above the reporting level reported)	0.1	Bq l^{-1}	<=	annual avg. <	0.3	Bq l^{-1}
	0.3	Bq l^{-1}	<=	annual avg. <	1	Bq l^{-1}
Outside EU (in 2020)	1	Bq l^{-1}	<=	annual avg.		

. sample location (Coordinate Accuracy = Precise or Not Specified)

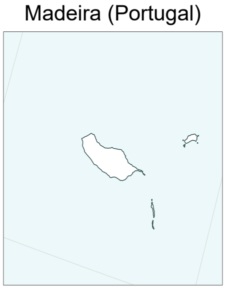
+ regional average (Coordinate Accuracy = Reference Point of Region)



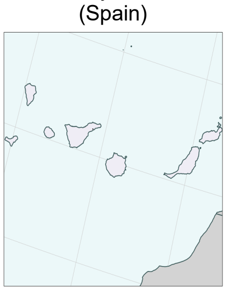
Azores (Portugal)



Madeira (Portugal)



Canary Islands (Spain)



Malta

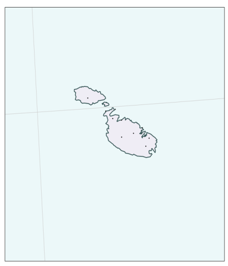


Table W18: Geographical and time averages

YEAR : **2020**

SAMPLE TYPE : **drinking water (Bq l $^{-1}$)**

NUCLIDE CATEGORY : **caesium-137 (^{137}Cs)**

DENSE

Country	N	L	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual average	Monthly max	M
AT	48	4	< RL	< RL	< RL	< RL	< RL	< RL	5
BE									
BG									
CY	55	43	< RL	< RL	< RL	< RL	< RL	< RL	1
CZ	35	9	< RL	< RL	< RL	< RL	< RL	< RL	11
DE-N	1	1	< RL				< RL	< RL	1
DE-C	2	2	< RL				< RL	< RL	1
DE-S	13	11	< RL				< RL	< RL	1
DE-E	6	6	< RL	< RL			< RL	< RL	4
DE	22	20	< RL	< RL			< RL	< RL	4
DK									
EE	2	1	< RL			< RL	< RL	< RL	3
ES-N	58	5	< RL	< RL	< RL	< RL	< RL	< RL	3
ES-C	81	7	< RL	< RL	< RL	< RL	< RL	< RL	4
ES-S	59	4	< RL	< RL	< RL	< RL	< RL	< RL	3
ES-E	48	4	< RL	< RL	< RL	< RL	< RL	< RL	11
ES	246	20	< RL	< RL	< RL	< RL	< RL	< RL	2
FI-N	2	2				< RL	< RL	< RL	11
FI-S	3	3				< RL	< RL	< RL	10
FI	5	5				< RL	< RL	< RL	10
FR-NW									
FR-NE	2	2			< RL		< RL	< RL	7
FR-SW									
FR-SE									
FR	2	2			< RL		< RL	< RL	7
GB-EN	37	24	< RL	< RL		< RL	< RL	< RL	1
GB-WL	5	3	< RL			< RL	< RL	< RL	1
GB-SC	24	4	< RL		< RL	< RL	< RL	< RL	10
GB-NI									
GB	66	31	< RL	< RL	< RL	< RL	< RL	< RL	7
GR									
HR-A	3	3		< RL	< RL		< RL	< RL	9
HR-C	5	2	< RL	< RL	< RL	< RL	< RL	< RL	10
HR	8	5	< RL	< RL	< RL	< RL	< RL	< RL	10
HU	69	26	< RL	< RL	< RL	< RL	< RL	< RL	12
IE									
IT-N	56	11	< RL	< RL	< RL	< RL	< RL	< RL	2
IT-C	2	1		< RL		< RL	< RL	< RL	12
IT-S	43	28	< RL	< RL	< RL	< RL	< RL	< RL	9
IT	101	40	< RL	< RL	< RL	< RL	< RL	< RL	7
LT									
LU	24	2	< RL	< RL	< RL	< RL	< RL	< RL	1
LV	16	4	< RL	< RL	< RL	< RL	< RL	< RL	12
MT	10	10	< RL	< RL	< RL	< RL	< RL	< RL	1
NL									
PL-N									
PL-S									
PL									
PT									
RO-N	70	5	< RL	< RL	< RL	< RL	< RL	< RL	5
RO-S	63	10	< RL	< RL	< RL	< RL	< RL	< RL	8
RO	133	15	< RL	< RL	< RL	< RL	< RL	< RL	8
SE-N	6	3		< RL	< RL	< RL	< RL	< RL	9
SE-S	6	3		< RL	< RL		< RL	< RL	5
SE	12	6		< RL	< RL	< RL	< RL	< RL	9
SI									
SK	22	5	< RL	< RL	< RL	< RL	< RL	< RL	10

RL: reporting level for ^{137}Cs In drinking water, i.e. 1.0 E-01 BQ/L (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
L: Number of sampling locations considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

DENSE

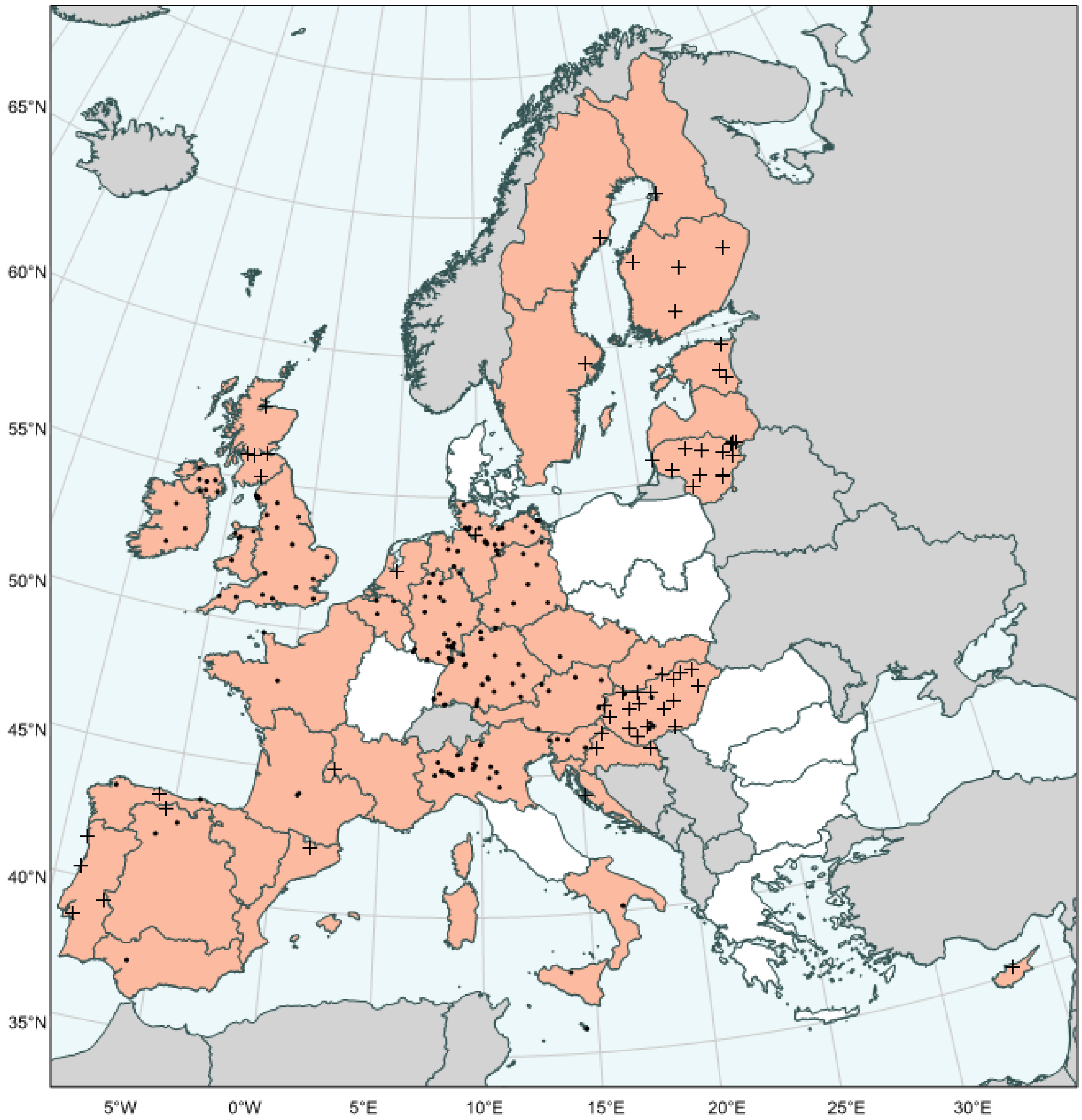
Fig. M1: Geographical and time averages

YEAR	:	2015
SAMPLE TYPE	:	milk (Bq l $^{-1}$)
NUCLIDE CATEGORY	:	strontium-90 (^{90}Sr)

EU (no relevant data reported)	annual avg. < 0.2 Bq l $^{-1}$
EU (only relevant constraint values above the reporting level reported)	0.2 Bq l $^{-1}$ <= annual avg. < 0.6 Bq l $^{-1}$
	0.6 Bq l $^{-1}$ <= annual avg. < 2 Bq l $^{-1}$
Outside EU (in 2015)	2 Bq l $^{-1}$ <= annual avg.

. sample location (Coordinate Accuracy = Precise or Not Specified)

+ regional average (Coordinate Accuracy = Reference Point of Region)



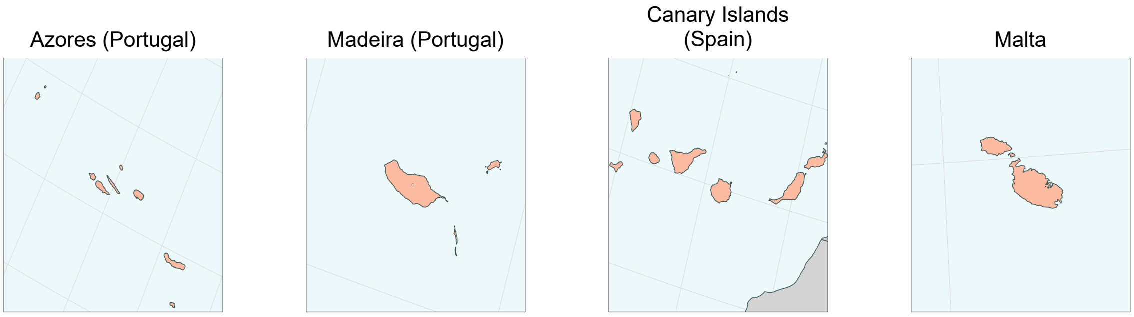


Table M1: Geographical and time averages

DENSE

YEAR : **2015**

SAMPLE TYPE : **milk (Bq l $^{-1}$)**

NUCLIDE CATEGORY : **strontium-90 (^{90}Sr)**

Country	N	L	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual average	Monthly max	M
AT	25	7	< RL	< RL	< RL	< RL	< RL	< RL	6
BE	42	3	< RL	< RL	< RL	< RL	< RL	< RL	1
BG									
CY	6	1			< RL	< RL	< RL	< RL	7
CZ	5	2	< RL	< RL	< RL	< RL	< RL	< RL	2
DE-N	110	24	< RL	< RL	< RL	< RL	< RL	< RL	11
DE-C	63	20	< RL	< RL	< RL	< RL	< RL	< RL	1
DE-S	74	23	< RL	< RL	< RL	< RL	< RL	< RL	4
DE-E	67	7	< RL	< RL	< RL	< RL	< RL	< RL	1
DE	314	74	< RL	< RL	< RL	< RL	< RL	< RL	11
DK									
EE	12	3	< RL	< RL	< RL	< RL	< RL	< RL	10
ES-N	36	3	< RL	< RL	< RL	< RL	< RL	< RL	8
ES-C	12	3	< RL	< RL	< RL	< RL	< RL	< RL	5
ES-S	12	1	< RL	< RL	< RL	< RL	< RL	< RL	1
ES-E	12	1	< RL	< RL	< RL	< RL	< RL	< RL	12
ES	72	8	< RL	< RL	< RL	< RL	< RL	< RL	8
FI-N	4	1	< RL	< RL	< RL	< RL	< RL	< RL	1
FI-S	16	4	< RL	< RL	< RL	< RL	< RL	< RL	4
FI	20	5	< RL	< RL	< RL	< RL	< RL	< RL	4
FR-NW	13	2		< RL	< RL	< RL	< RL	< RL	9
FR-NE									
FR-SW	2	2		< RL		< RL	< RL	< RL	6
FR-SE	1	1				< RL	< RL	< RL	11
FR	16	5		< RL	< RL	< RL	< RL	< RL	9
GB-EN	202	27	< RL	< RL	< RL	< RL	< RL	< RL	11
GB-WL	44	5	< RL	< RL	< RL	< RL	< RL	< RL	10
GB-SC	28	5	< RL	< RL	< RL	< RL	< RL	< RL	12
GB-NI	73	6	< RL	< RL	< RL	< RL	< RL	< RL	10
GB	347	43	< RL	< RL	< RL	< RL	< RL	< RL	10
GR									
HR-A	5	1	< RL	< RL	< RL	< RL	< RL	< RL	7
HR-C	23	3	< RL	< RL	< RL	< RL	< RL	< RL	9
HR	28	4	< RL	< RL	< RL	< RL	< RL	< RL	9
HU	227	23	< RL	< RL	< RL	< RL	< RL	< RL	10
IE	16	4	< RL	< RL	< RL	< RL	< RL	< RL	2
IT-N	55	20	< RL	< RL	< RL	< RL	< RL	< RL	9
IT-C									
IT-S	5	2	< RL	< RL	< RL	< RL	< RL	< RL	12
IT	60	22	< RL	< RL	< RL	< RL	< RL	< RL	10
LT	44	12	< RL	< RL	< RL	< RL	< RL	< RL	1
LU									
LV	8	2	< RL				< RL	< RL	1
MT	4	1	< RL	< RL	< RL	< RL	< RL	< RL	3
NL	12	1	< RL	< RL	< RL	< RL	< RL	< RL	1
PL-N									
PL-S									
PL									
PT	36	7	< RL	< RL	< RL	< RL	< RL	< RL	2
RO-N									
RO-S									
RO									
SE-N	3	1		< RL	< RL	< RL	< RL	< RL	9
SE-S	3	1		< RL	< RL	< RL	< RL	< RL	8
SE	6	2		< RL	< RL	< RL	< RL	< RL	9
SI	34	4	< RL	< RL	< RL	< RL	< RL	< RL	10
SK	12	1	< RL	< RL	< RL	< RL	< RL	< RL	1

RL: reporting level for ^{90}Sr In milk, i.e. 2.0 E-01 BQ/L (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
L: Number of sampling locations considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

DENSE

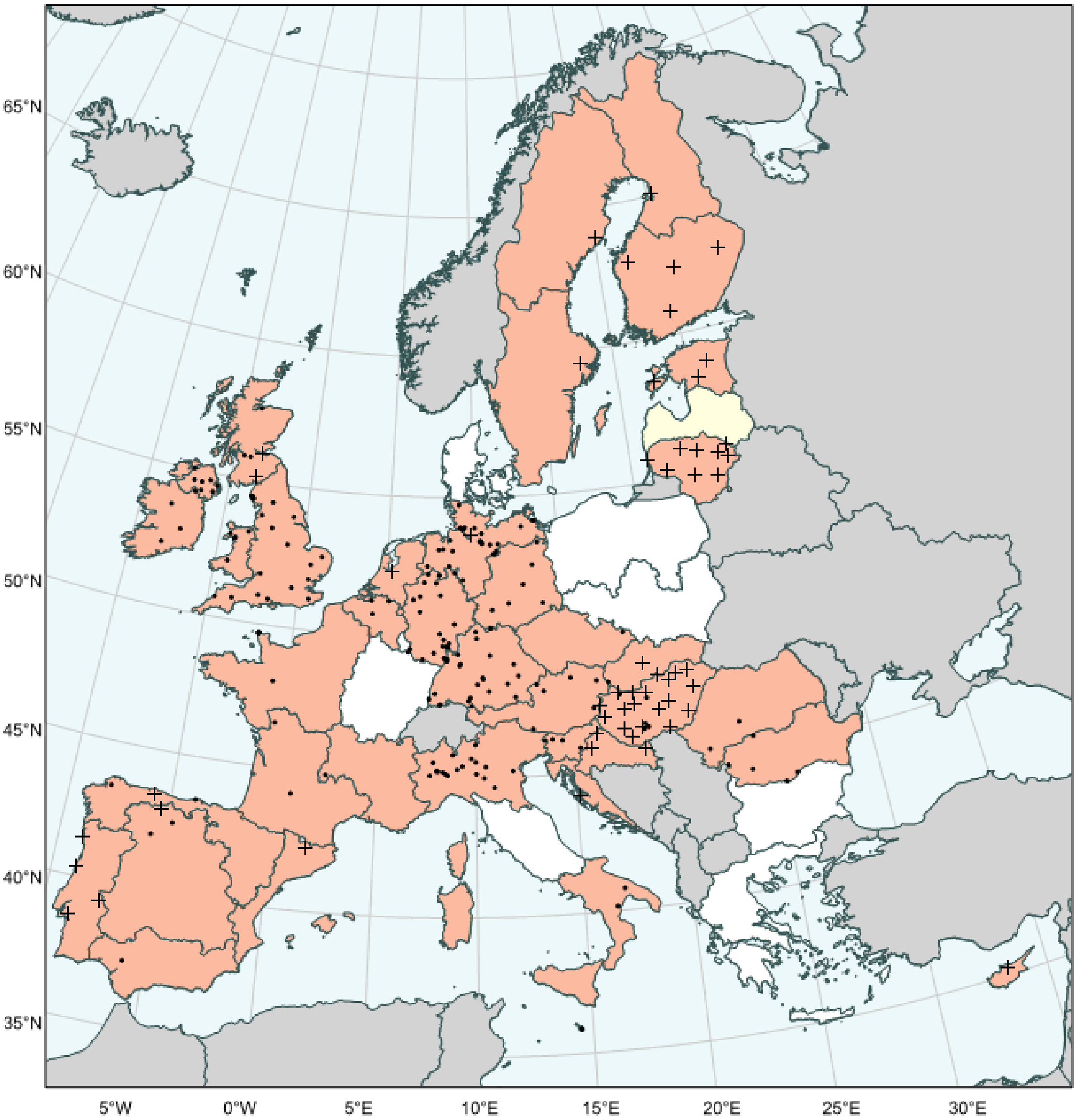
Fig. M2: Geographical and time averages

YEAR	:	2016
SAMPLE TYPE	:	milk (Bq l $^{-1}$)
NUCLIDE CATEGORY	:	strontium-90 (^{90}Sr)

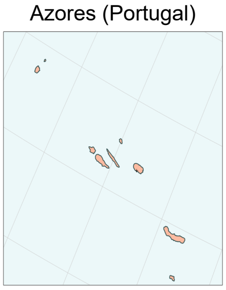
EU (no relevant data reported)	annual avg. < 0.2 Bq l $^{-1}$
EU (only relevant constraint values above the reporting level reported)	0.2 Bq l $^{-1}$ <= annual avg. < 0.6 Bq l $^{-1}$
	0.6 Bq l $^{-1}$ <= annual avg. < 2 Bq l $^{-1}$
Outside EU (in 2016)	2 Bq l $^{-1}$ <= annual avg.

. sample location (Coordinate Accuracy = Precise or Not Specified)

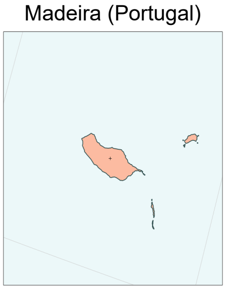
+ regional average (Coordinate Accuracy = Reference Point of Region)



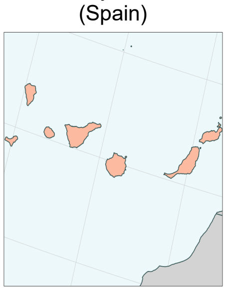
Azores (Portugal)



Madeira (Portugal)



Canary Islands (Spain)



Malta

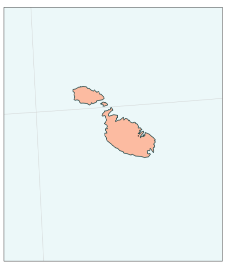


Table M2: Geographical and time averages

YEAR : 2016
SAMPLE TYPE : milk (Bq l $^{-1}$)
NUCLIDE CATEGORY : strontium-90 (^{90}Sr)

Country	N	L	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual average	Monthly max	M
AT	25	7	< RL	< RL	< RL	< RL	< RL	< RL	7
BE	42	3	< RL	< RL	< RL	< RL	< RL	< RL	5
BG									
CY	6	1		< RL		< RL	< RL	< RL	6
CZ	4	1	< RL	< RL	< RL	< RL	< RL	< RL	10
DE-N	119	28	< RL	< RL	< RL	< RL	< RL	< RL	12
DE-C	71	20	< RL	< RL	< RL	< RL	< RL	< RL	11
DE-S	71	23	< RL	< RL	< RL	< RL	< RL	< RL	3
DE-E	54	6	< RL	< RL	< RL	< RL	< RL	< RL	3
DE	315	77	< RL	< RL	< RL	< RL	< RL	< RL	3
DK									
EE	12	3	< RL	< RL	< RL	< RL	< RL	< RL	2
ES-N	36	3	< RL	< RL	< RL	< RL	< RL	< RL	9
ES-C	12	3	< RL	< RL	< RL	< RL	< RL	< RL	9
ES-S	12	1	< RL	< RL	< RL	< RL	< RL	< RL	11
ES-E	12	1	< RL	< RL	< RL	< RL	< RL	< RL	1
ES	72	8	< RL	< RL	< RL	< RL	< RL	< RL	9
FI-N	4	1	< RL	< RL	< RL	< RL	< RL	< RL	10
FI-S	16	4	< RL	< RL	< RL	< RL	< RL	< RL	7
FI	20	5	< RL	< RL	< RL	< RL	< RL	< RL	7
FR-NW	5	5			< RL	< RL	< RL	< RL	10
FR-NE									
FR-SW	3	2		< RL	< RL	< RL	< RL	< RL	11
FR-SE	1	1				< RL	< RL	< RL	10
FR	9	8		< RL	< RL	< RL	< RL	< RL	10
GB-EN	202	28	< RL	< RL	< RL	< RL	< RL	< RL	7
GB-WL	43	5	< RL	< RL	< RL	< RL	< RL	< RL	12
GB-SC	28	5	< RL	< RL	< RL	< RL	< RL	< RL	7
GB-NI	71	7	< RL	< RL	< RL	< RL	< RL	< RL	8
GB	344	45	< RL	< RL	< RL	< RL	< RL	< RL	7
GR									
HR-A	7	1	< RL	< RL	< RL	< RL	< RL	< RL	3
HR-C	27	3	< RL	< RL	< RL	< RL	< RL	< RL	12
HR	34	4	< RL	< RL	< RL	< RL	< RL	< RL	12
HU	230	24	< RL	< RL	< RL	< RL	< RL	< RL	5
IE	16	4	< RL	< RL	< RL	< RL	< RL	< RL	5
IT-N	57	19	< RL	< RL	< RL	< RL	< RL	< RL	7
IT-C									
IT-S	4	2	< RL	< RL	< RL	< RL	< RL	< RL	10
IT	61	21	< RL	< RL	< RL	< RL	< RL	< RL	7
LT	43	10	< RL	< RL	< RL	< RL	< RL	< RL	4
LU									
LV							Δ		
MT	4	2	< RL	< RL	< RL	< RL	< RL	< RL	3
NL	12	1	< RL	< RL	< RL	< RL	< RL	< RL	1
PL-N									
PL-S									
PL									
PT	36	6	< RL	< RL	< RL	< RL	< RL	< RL	4
RO-N	2	2		< RL	< RL	< RL	< RL	< RL	11
RO-S	8	5	< RL	< RL	< RL	< RL	< RL	< RL	11
RO	10	7	< RL	< RL	< RL	< RL	< RL	< RL	1
SE-N	4	1	< RL	< RL	< RL	< RL	< RL	< RL	9
SE-S	4	1	< RL	< RL	< RL	< RL	< RL	< RL	11
SE	8	2	< RL	< RL	< RL	< RL	< RL	< RL	2
SI	33	4	< RL	< RL	< RL	< RL	< RL	< RL	11
SK	16	2	< RL	< RL	< RL	< RL	< RL	< RL	2

RL: reporting level for ^{90}Sr In milk, i.e. 2.0 E-01 BQ/L (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
L: Number of sampling locations considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

DENSE

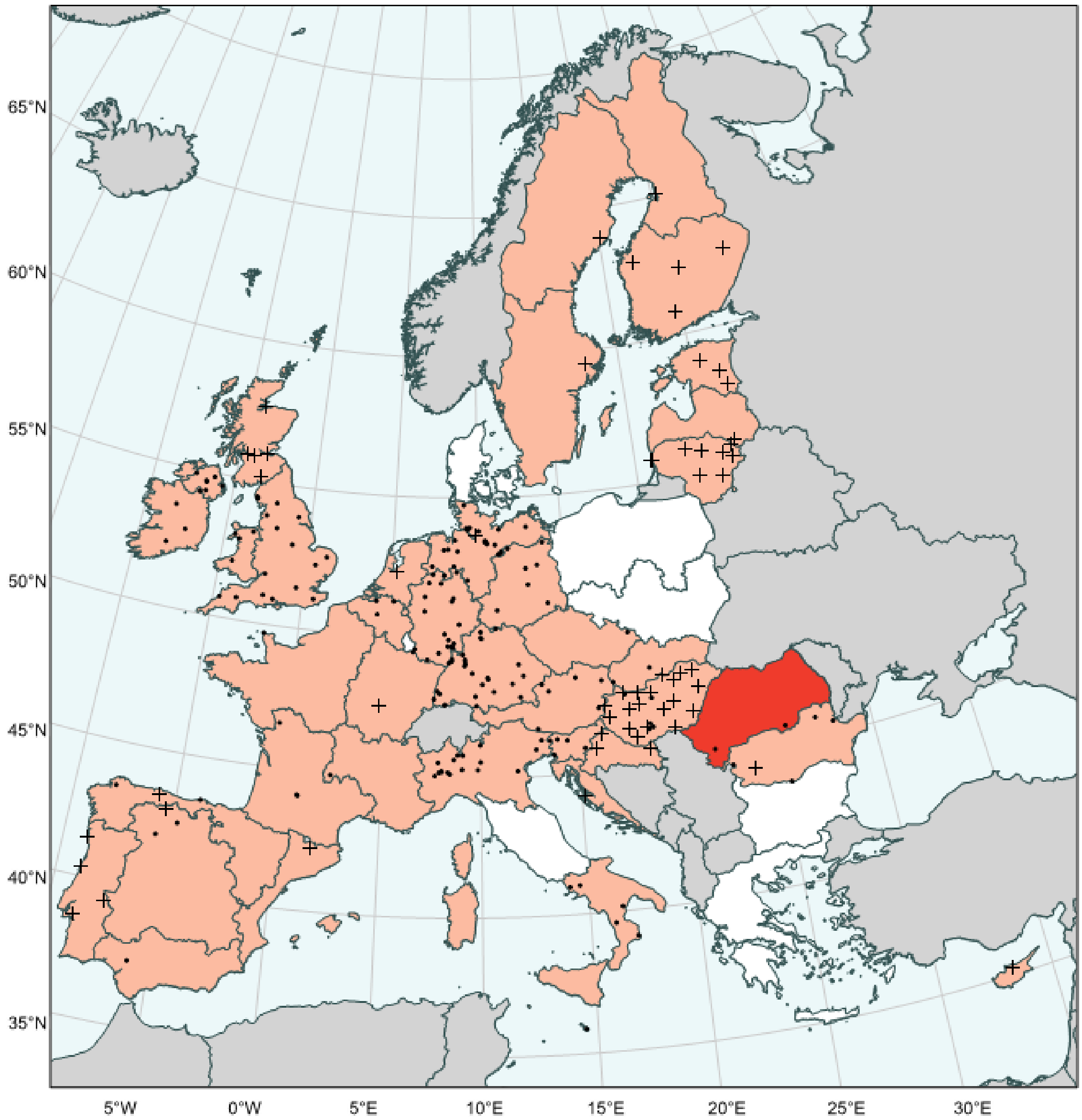
Fig. M3: Geographical and time averages

YEAR	:	2017
SAMPLE TYPE	:	milk (Bq l $^{-1}$)
NUCLIDE CATEGORY	:	strontium-90 (^{90}Sr)

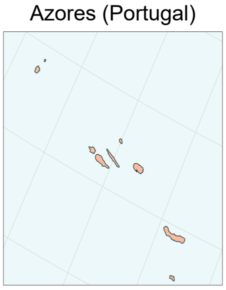
EU (no relevant data reported)
EU (only relevant constraint values above the reporting level reported)
Outside EU (in 2017)

		annual avg.	<	0.2	Bq l $^{-1}$
0.2 Bq l $^{-1}$	<=	annual avg.	<	0.6	Bq l $^{-1}$
0.6 Bq l $^{-1}$	<=	annual avg.	<	2	Bq l $^{-1}$
2 Bq l $^{-1}$	<=	annual avg.			

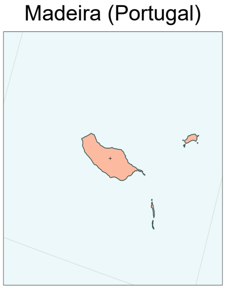
. sample location (Coordinate Accuracy = Precise or Not Specified)
+ regional average (Coordinate Accuracy = Reference Point of Region)



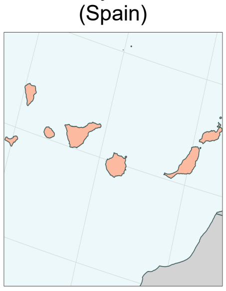
Azores (Portugal)



Madeira (Portugal)



Canary Islands (Spain)



Malta

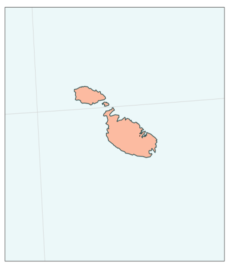


Table M3: Geographical and time averages

YEAR : 2017
SAMPLE TYPE : milk (Bq l^{-1})
NUCLIDE CATEGORY : strontium-90 (^{90}Sr)

Country	N	L	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual average	Monthly max	M
AT	26	7	< RL	< RL	< RL	< RL	< RL	< RL	6
BE	42	3	< RL	< RL	< RL	< RL	< RL	< RL	4
BG									
CY	6	1	< RL	< RL			< RL	< RL	1
CZ	4	1	< RL	< RL	< RL	< RL	< RL	< RL	10
DE-N	111	25	< RL	< RL	< RL	< RL	< RL	< RL	8
DE-C	60	20	< RL	< RL	< RL	< RL	< RL	< RL	9
DE-S	75	26	< RL	< RL	< RL	< RL	< RL	< RL	3
DE-E	57	7	< RL	< RL	< RL	< RL	< RL	< RL	10
DE	303	78	< RL	< RL	< RL	< RL	< RL	< RL	3
DK									
EE	12	3	< RL	< RL	< RL	< RL	< RL	< RL	11
ES-N	36	3	< RL	< RL	< RL	< RL	< RL	< RL	8
ES-C	12	3	< RL	< RL	< RL	< RL	< RL	< RL	8
ES-S	12	1	< RL	< RL	< RL	< RL	< RL	< RL	8
ES-E	12	1	< RL	< RL	< RL	< RL	< RL	< RL	10
ES	72	8	< RL	< RL	< RL	< RL	< RL	< RL	8
FI-N	4	1	< RL	< RL	< RL	< RL	< RL	< RL	1
FI-S	16	4	< RL	< RL	< RL	< RL	< RL	< RL	1
FI	20	5	< RL	< RL	< RL	< RL	< RL	< RL	1
FR-NW	6	1		< RL	< RL		< RL	< RL	7
FR-NE	1	1		< RL			< RL	< RL	6
FR-SW	3	3		< RL	< RL	< RL	< RL	< RL	11
FR-SE	1	1		< RL			< RL	< RL	6
FR	11	6		< RL	< RL	< RL	< RL	< RL	6
GB-EN	193	20	< RL	< RL	< RL	< RL	< RL	< RL	10
GB-WL	44	4	< RL	< RL	< RL	< RL	< RL	< RL	7
GB-SC	28	5	< RL	< RL	< RL	< RL	< RL	< RL	2
GB-NI	72	6	< RL	< RL	< RL	< RL	< RL	< RL	9
GB	337	35	< RL	< RL	< RL	< RL	< RL	< RL	2
GR									
HR-A	7	1	< RL	< RL	< RL	< RL	< RL	< RL	12
HR-C	27	3	< RL	< RL	< RL	< RL	< RL	< RL	4
HR	34	4	< RL	< RL	< RL	< RL	< RL	< RL	2
HU	241	24	< RL	< RL	< RL	< RL	< RL	< RL	4
IE	16	4	< RL	< RL	< RL	< RL	< RL	< RL	11
IT-N	60	18	< RL	< RL	< RL	< RL	< RL	< RL	12
IT-C									
IT-S	6	5	< RL	< RL		< RL	< RL	< RL	1
IT	66	23	< RL	< RL	< RL	< RL	< RL	< RL	12
LT	44	12	< RL	< RL	< RL	< RL	< RL	< RL	1
LU									
LV	8	1	< RL	< RL	< RL	< RL	< RL	< RL	3
MT	3	1	< RL		< RL	< RL	< RL	< RL	7
NL	12	1	< RL	< RL	< RL	< RL	< RL	< RL	1
PL-N									
PL-S									
PL									
PT	35	6	< RL	< RL	< RL	< RL	< RL	< RL	9
RO-N	2	2	< RL	< RL	< RL	5.1E-01	2.5E-01	1.2E+00	12
RO-S	7	5	< RL	< RL	< RL	< RL	< RL	< RL	3
RO	9	7	< RL	< RL	< RL	2.9E-01	< RL	5.3E-01	12
SE-N	4	1	< RL	< RL	< RL	< RL	< RL	< RL	8
SE-S	4	1	< RL	< RL	< RL	< RL	< RL	< RL	1
SE	8	2	< RL	< RL	< RL	< RL	< RL	< RL	1
SI	33	4	< RL	< RL	< RL	< RL	< RL	< RL	2
SK	16	2	< RL	< RL	< RL	< RL	< RL	< RL	5

RL: reporting level for ^{90}Sr In milk, i.e. 2.0 E-01 BQ/L (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
L: Number of sampling locations considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

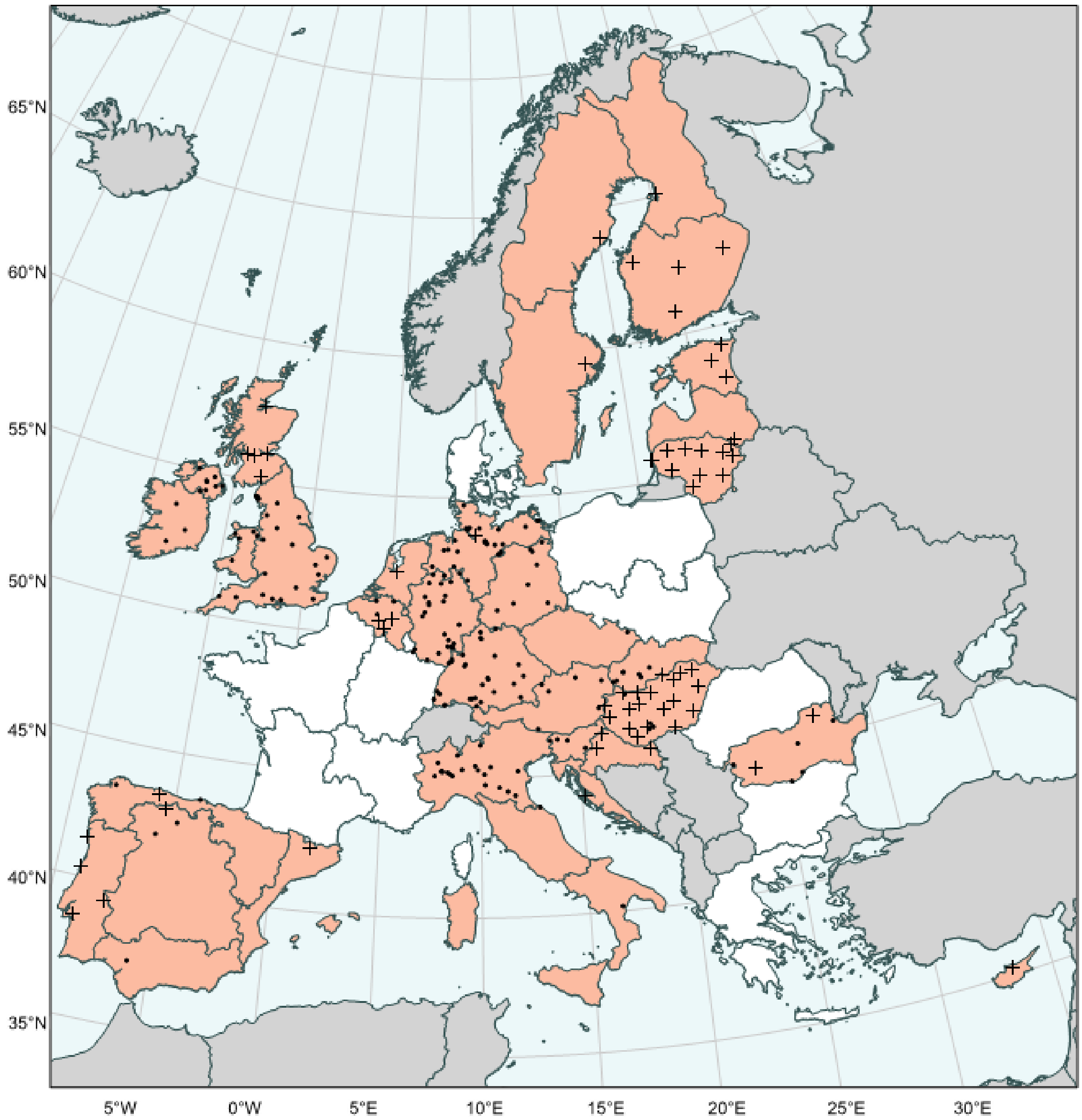
Fig. M4: Geographical and time averages

YEAR	:	2018
SAMPLE TYPE	:	milk (Bq l $^{-1}$)
NUCLIDE CATEGORY	:	strontium-90 (^{90}Sr)

EU (no relevant data reported)			annual avg.	<	0.2	Bq l $^{-1}$
EU (only relevant constraint values above the reporting level reported)	0.2	Bq l $^{-1}$	<=	annual avg.	<	0.6	Bq l $^{-1}$
	0.6	Bq l $^{-1}$	<=	annual avg.	<	2	Bq l $^{-1}$
Outside EU (in 2018)	2	Bq l $^{-1}$	<=	annual avg.			

. sample location (Coordinate Accuracy = Precise or Not Specified)

+ regional average (Coordinate Accuracy = Reference Point of Region)



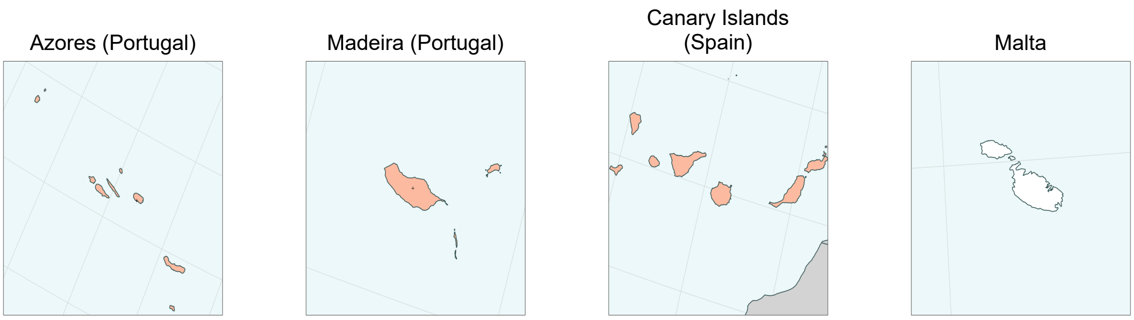


Table M4: Geographical and time averages

YEAR : 2018

SAMPLE TYPE : milk (Bq l $^{-1}$)

NUCLIDE CATEGORY : strontium-90 (^{90}Sr)

Country	N	L	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual average	Monthly max	M
AT	19	7	< RL	< RL	< RL	< RL	< RL	< RL	11
BE	81	6	< RL	< RL	< RL	< RL	< RL	< RL	10
BG									
CY	3	1			< RL	< RL	< RL	< RL	7
CZ	4	1	< RL	< RL	< RL	< RL	< RL	< RL	10
DE-N	108	28	< RL	< RL	< RL	< RL	< RL	< RL	7
DE-C	68	24	< RL	< RL	< RL	< RL	< RL	< RL	12
DE-S	78	27	< RL	< RL	< RL	< RL	< RL	< RL	12
DE-E	59	8	< RL	< RL	< RL	< RL	< RL	< RL	1
DE	313	87	< RL	< RL	< RL	< RL	< RL	< RL	1
DK									
EE	12	3	< RL	< RL	< RL	< RL	< RL	< RL	2
ES-N	36	3	< RL	< RL	< RL	< RL	< RL	< RL	6
ES-C	12	3	< RL	< RL	< RL	< RL	< RL	< RL	11
ES-S	12	1	< RL	< RL	< RL	< RL	< RL	< RL	3
ES-E	12	1	< RL	< RL	< RL	< RL	< RL	< RL	12
ES	72	8	< RL	< RL	< RL	< RL	< RL	< RL	1
FI-N	4	1	< RL	< RL	< RL	< RL	< RL	< RL	10
FI-S	16	4	< RL	< RL	< RL	< RL	< RL	< RL	10
FI	20	5	< RL	< RL	< RL	< RL	< RL	< RL	10
FR-NW									
FR-NE									
FR-SW									
FR-SE									
FR									
GB-EN	208	29	< RL	< RL	< RL	< RL	< RL	< RL	7
GB-WL	43	5	< RL	< RL	< RL	< RL	< RL	< RL	8
GB-SC	28	5	< RL	< RL	< RL	< RL	< RL	< RL	3
GB-NI	72	7	< RL	< RL	< RL	< RL	< RL	< RL	10
GB	351	46	< RL	< RL	< RL	< RL	< RL	< RL	9
GR									
HR-A	5	1	< RL	< RL	< RL	< RL	< RL	< RL	9
HR-C	24	3	< RL	< RL	< RL	< RL	< RL	< RL	1
HR	29	4	< RL	< RL	< RL	< RL	< RL	< RL	1
HU	224	23	< RL	< RL	< RL	< RL	< RL	< RL	7
IE	16	4	< RL	< RL	< RL	< RL	< RL	< RL	5
IT-N	64	20	< RL	< RL	< RL	< RL	< RL	< RL	9
IT-C	1	1			< RL		< RL	< RL	9
IT-S	6	1	< RL	< RL	< RL	< RL	< RL	< RL	1
IT	71	22	< RL	< RL	< RL	< RL	< RL	< RL	10
LT	45	13	< RL	< RL	< RL	< RL	< RL	< RL	1
LU									
LV	8	1	< RL				< RL	< RL	1
MT									
NL	12	1	< RL	< RL	< RL	< RL	< RL	< RL	1
PL-N									
PL-S									
PL									
PT	36	6	< RL	< RL	< RL	< RL	< RL	< RL	11
RO-N									
RO-S	12	7	< RL	< RL	< RL		< RL	< RL	9
RO	12	7	< RL	< RL	< RL		< RL	< RL	9
SE-N	4	1	< RL	< RL	< RL	< RL	< RL	< RL	1
SE-S	4	1	< RL	< RL	< RL	< RL	< RL	< RL	5
SE	8	2	< RL	< RL	< RL	< RL	< RL	< RL	1
SI	30	4	< RL	< RL	< RL	< RL	< RL	< RL	12
SK	29	7	< RL	< RL	< RL	< RL	< RL	< RL	11

RL: reporting level for ^{90}Sr In milk, i.e. 2.0 E-01 BQ/L (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
L: Number of sampling locations considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

DENSE

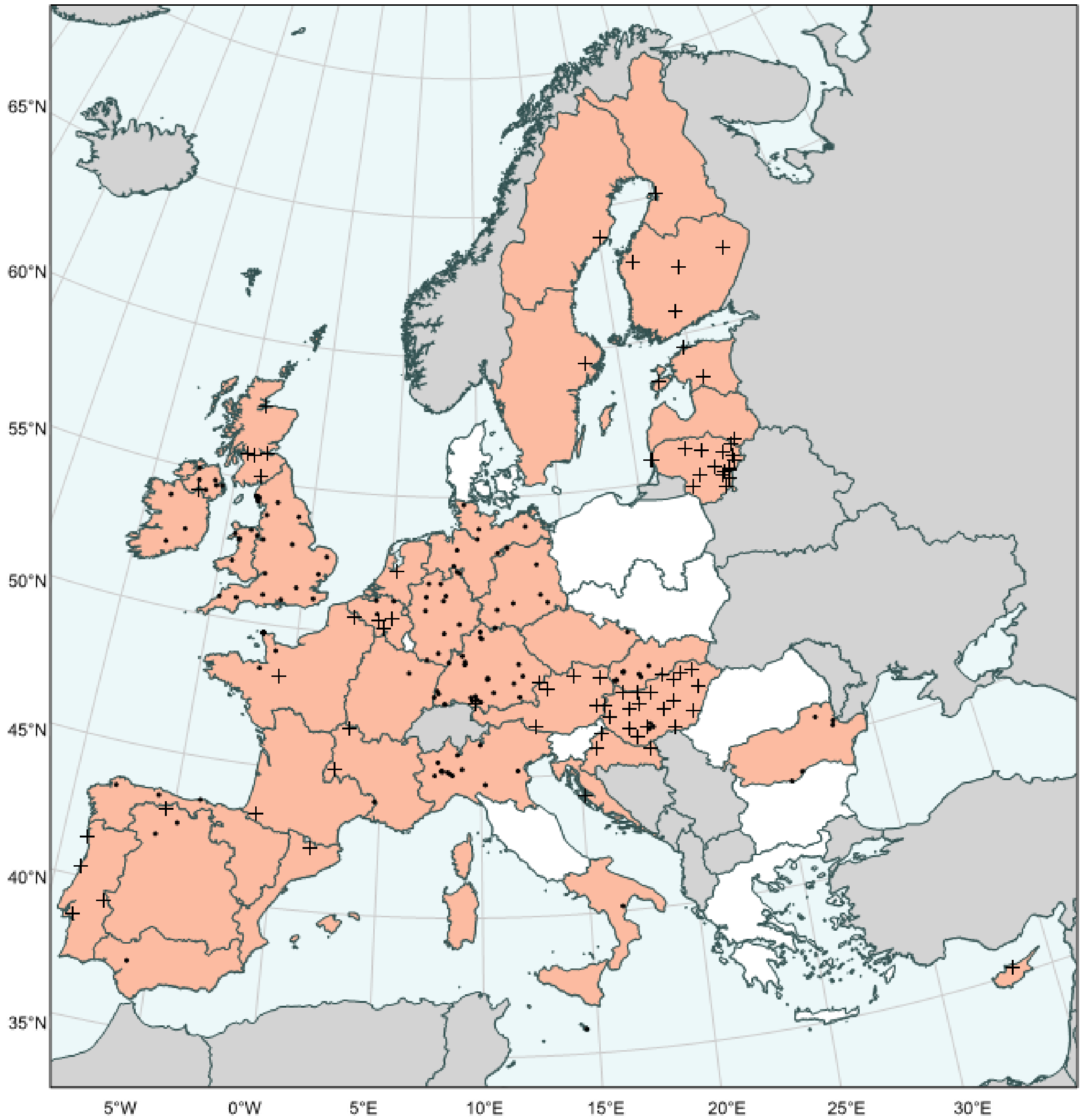
Fig. M5: Geographical and time averages

YEAR	:	2019
SAMPLE TYPE	:	milk (Bq l $^{-1}$)
NUCLIDE CATEGORY	:	strontium-90 (^{90}Sr)

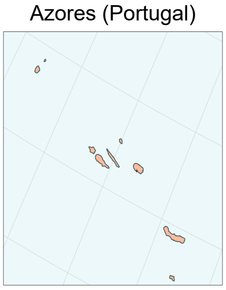
EU (no relevant data reported)				annual avg.	<	0.2	Bq l $^{-1}$
EU (only relevant constraint values above the reporting level reported)	0.2	Bq l $^{-1}$	<=	annual avg.	<	0.6	Bq l $^{-1}$
	0.6	Bq l $^{-1}$	<=	annual avg.	<	2	Bq l $^{-1}$
Outside EU (in 2019)	2	Bq l $^{-1}$	<=	annual avg.			

. sample location (Coordinate Accuracy = Precise or Not Specified)

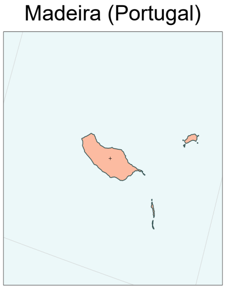
+ regional average (Coordinate Accuracy = Reference Point of Region)



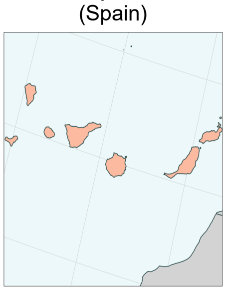
Azores (Portugal)



Madeira (Portugal)



Canary Islands (Spain)



Malta

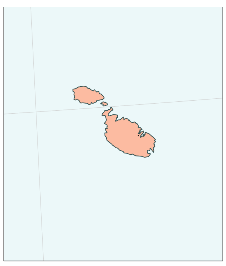


Table M5: Geographical and time averages

YEAR : **2019**

SAMPLE TYPE : **milk (Bq l $^{-1}$)**

NUCLIDE CATEGORY : **strontium-90 (^{90}Sr)**

Country	N	L	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual average	Monthly max	M
AT	19	7	< RL	< RL	< RL	< RL	< RL	< RL	9
BE	79	6	< RL	< RL	< RL	< RL	< RL	< RL	6
BG									
CY	3	1	< RL	< RL			< RL	< RL	3
CZ	4	1	< RL	< RL	< RL	< RL	< RL	< RL	10
DE-N	64	7	< RL	< RL	< RL	< RL	< RL	< RL	10
DE-C	47	13	< RL	< RL	< RL	< RL	< RL	< RL	10
DE-S	73	26	< RL	< RL	< RL	< RL	< RL	< RL	9
DE-E	56	6	< RL	< RL	< RL	< RL	< RL	< RL	8
DE	240	52	< RL	< RL	< RL	< RL	< RL	< RL	10
DK									
EE	12	3	< RL	< RL	< RL	< RL	< RL	< RL	2
ES-N	36	3	< RL	< RL	< RL	< RL	< RL	< RL	10
ES-C	12	3	< RL	< RL	< RL	< RL	< RL	< RL	4
ES-S	12	1	< RL	< RL	< RL	< RL	< RL	< RL	6
ES-E	12	1	< RL	< RL	< RL	< RL	< RL	< RL	12
ES	72	8	< RL	< RL	< RL	< RL	< RL	< RL	6
FI-N	4	1	< RL	< RL	< RL	< RL	< RL	< RL	7
FI-S	16	4	< RL	< RL	< RL	< RL	< RL	< RL	1
FI	20	5	< RL	< RL	< RL	< RL	< RL	< RL	1
FR-NW	13	13	< RL	< RL	< RL	< RL	< RL	< RL	3
FR-NE	1	1			< RL		< RL	< RL	9
FR-SW	2	2		< RL			< RL	< RL	6
FR-SE	2	2		< RL			< RL	< RL	6
FR	18	18	< RL	< RL	< RL	< RL	< RL	< RL	6
GB-EN	201	28	< RL	< RL	< RL	< RL	< RL	< RL	12
GB-WL	43	6	< RL	< RL	< RL	< RL	< RL	< RL	12
GB-SC	28	5	< RL	< RL	< RL	< RL	< RL	< RL	6
GB-NI	71	6	< RL	< RL	< RL	< RL	< RL	< RL	12
GB	343	45	< RL	< RL	< RL	< RL	< RL	< RL	12
GR									
HR-A	6	1	< RL	< RL	< RL	< RL	< RL	< RL	1
HR-C	24	3	< RL	< RL	< RL	< RL	< RL	< RL	3
HR	30	4	< RL	< RL	< RL	< RL	< RL	< RL	3
HU	170	22	< RL	< RL	< RL	< RL	< RL	< RL	9
IE	14	4	< RL	< RL	< RL	< RL	< RL	< RL	5
IT-N	39	13	< RL	< RL	< RL	< RL	< RL	< RL	10
IT-C									
IT-S	3	1	< RL	< RL	< RL	< RL	< RL	< RL	4
IT	42	14	< RL	< RL	< RL	< RL	< RL	< RL	10
LT	69	19	< RL	< RL	< RL	< RL	< RL	< RL	11
LU									
LV	9	1	< RL			< RL	< RL	< RL	11
MT	8	1	< RL	< RL	< RL	< RL	< RL	< RL	3
NL	12	1	< RL	< RL	< RL	< RL	< RL	< RL	1
PL-N									
PL-S									
PL									
PT	33	6	< RL	< RL	< RL	< RL	< RL	< RL	11
RO-N									
RO-S	7	5	< RL	< RL	< RL		< RL	< RL	3
RO	7	5	< RL	< RL	< RL		< RL	< RL	3
SE-N	2	1	< RL	< RL			< RL	< RL	1
SE-S	2	1	< RL	< RL			< RL	< RL	1
SE	4	2	< RL	< RL			< RL	< RL	1
SI									
SK	23	9	< RL	< RL	< RL	< RL	< RL	< RL	8

RL: reporting level for ^{90}Sr In milk, i.e. 2.0 E-01 BQ/L (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
L: Number of sampling locations considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

Fig. M6: Geographical and time averages

YEAR	:	2020
SAMPLE TYPE	:	milk (Bq l^{-1})
NUCLIDE CATEGORY	:	strontium-90 (^{90}Sr)

EU (no relevant data reported)
EU (only relevant constraint values above the reporting level reported)
Outside EU (in 2020)

		annual avg.	<	0.2	Bq l^{-1}
0.2 Bq l^{-1}	<=	annual avg.	<	0.6	Bq l^{-1}
0.6 Bq l^{-1}	<=	annual avg.	<	2	Bq l^{-1}
2 Bq l^{-1}	<=	annual avg.			

. sample location (Coordinate Accuracy = Precise or Not Specified)
\+ regional average (Coordinate Accuracy = Reference Point of Region)

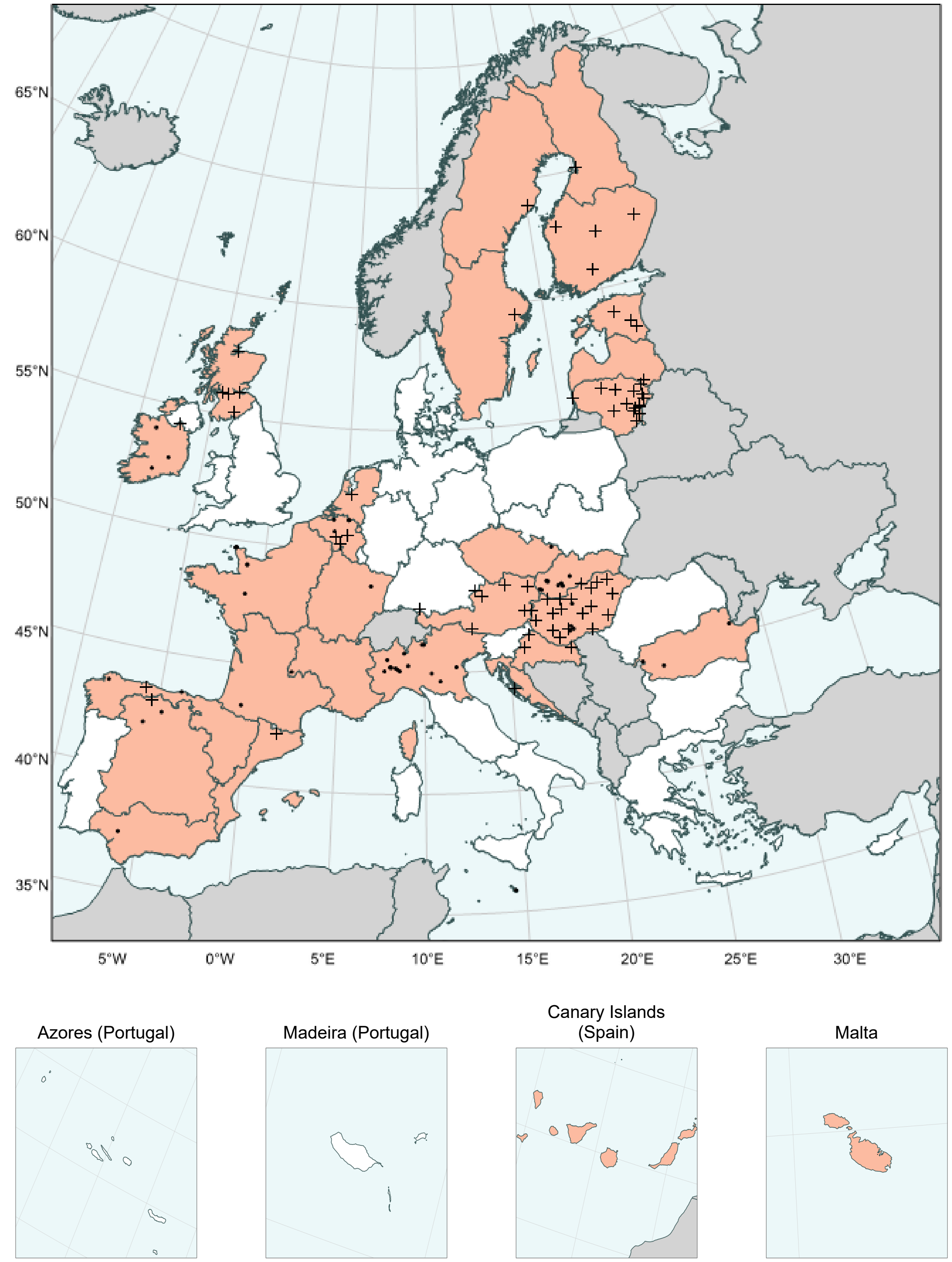


Table M6: Geographical and time averages

YEAR : 2020

SAMPLE TYPE : milk (Bq l $^{-1}$)

NUCLIDE CATEGORY : strontium-90 (^{90}Sr)

Country	N	L	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual average	Monthly max	M
AT	19	7	< RL	< RL	< RL	< RL	< RL	< RL	10
BE	163	6	< RL	< RL	< RL	< RL	< RL	< RL	3
BG									
CY									
CZ	4	1	< RL	< RL	< RL	< RL	< RL	< RL	1
DE-N									
DE-C									
DE-S									
DE-E									
DE									
DK									
EE	12	3	< RL	< RL	< RL	< RL	< RL	< RL	7
ES-N	36	3	< RL	< RL	< RL	< RL	< RL	< RL	1
ES-C	10	3	< RL	< RL	< RL	< RL	< RL	< RL	8
ES-S	11	1	< RL	< RL	< RL	< RL	< RL	< RL	6
ES-E	12	1	< RL	< RL	< RL	< RL	< RL	< RL	5
ES	69	8	< RL	< RL	< RL	< RL	< RL	< RL	1
FI-N	4	1	< RL	< RL	< RL	< RL	< RL	< RL	1
FI-S	16	4	< RL	< RL	< RL	< RL	< RL	< RL	7
FI	20	5	< RL	< RL	< RL	< RL	< RL	< RL	7
FR-NW	7	6			< RL	< RL	< RL	< RL	7
FR-NE	1	1				< RL	< RL	< RL	10
FR-SW	1	1			< RL		< RL	< RL	9
FR-SE	1	1			< RL		< RL	< RL	7
FR	10	9			< RL	< RL	< RL	< RL	7
GB-EN									
GB-WL									
GB-SC	26	5	< RL	< RL	< RL	< RL	< RL	< RL	9
GB-NI									
GB	26	5	< RL	< RL	< RL	< RL	< RL	< RL	9
GR									
HR-A	6	1	< RL	< RL	< RL	< RL	< RL	< RL	2
HR-C	24	3	< RL	< RL	< RL	< RL	< RL	< RL	11
HR	30	4	< RL	< RL	< RL	< RL	< RL	< RL	11
HU	100	23	< RL	< RL	< RL	< RL	< RL	< RL	1
IE	16	4	< RL	< RL	< RL	< RL	< RL	< RL	6
IT-N	39	15	< RL	< RL	< RL	< RL	< RL	2.0E-01	5
IT-C									
IT-S									
IT	39	15	< RL	< RL	< RL	< RL	< RL	2.0E-01	5
LT	62	15	< RL	< RL	< RL	< RL	< RL	< RL	12
LU									
LV	3	1	< RL				< RL	< RL	1
MT	2	1		< RL		< RL	< RL	< RL	6
NL	12	1	< RL	< RL	< RL	< RL	< RL	< RL	1
PL-N									
PL-S									
PL									
PT									
RO-N									
RO-S	4	3	< RL	< RL	< RL	< RL	< RL	< RL	2
RO	4	3	< RL	< RL	< RL	< RL	< RL	< RL	2
SE-N	4	1	< RL	< RL	< RL	< RL	< RL	< RL	9
SE-S	4	1	< RL	< RL	< RL	< RL	< RL	< RL	8
SE	8	2	< RL	< RL	< RL	< RL	< RL	< RL	8
SI									
SK	38	9	< RL	< RL	< RL	< RL	< RL	< RL	12

RL: reporting level for ^{90}Sr In milk, i.e. 2.0 E-01 BQ/L (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
L: Number of sampling locations considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

DENSE

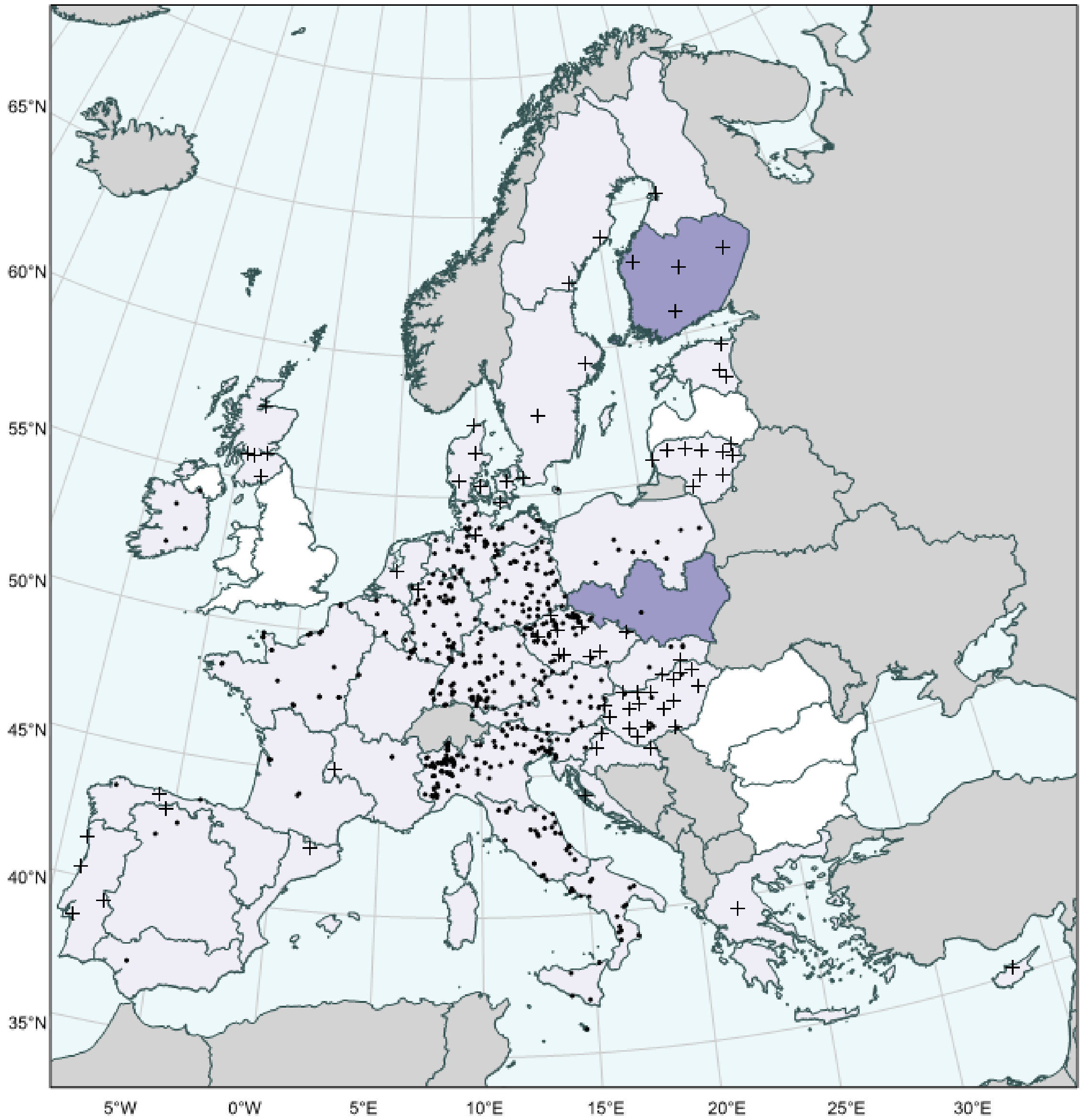
Fig. M7: Geographical and time averages

YEAR	:	2015
SAMPLE TYPE	:	milk (Bq l $^{-1}$)
NUCLIDE CATEGORY	:	caesium-137 (^{137}Cs)

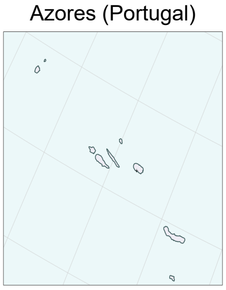
EU (no relevant data reported)	annual avg. < 0.5 Bq l $^{-1}$
EU (only relevant constraint values above the reporting level reported)	0.5 Bq l $^{-1}$ <= annual avg. < 1.5 Bq l $^{-1}$
	1.5 Bq l $^{-1}$ <= annual avg. < 5 Bq l $^{-1}$
Outside EU (in 2015)	5 Bq l $^{-1}$ <= annual avg.

. sample location (Coordinate Accuracy = Precise or Not Specified)

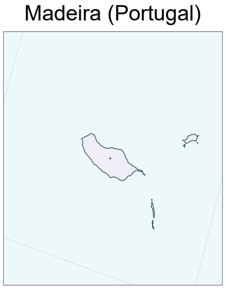
+ regional average (Coordinate Accuracy = Reference Point of Region)



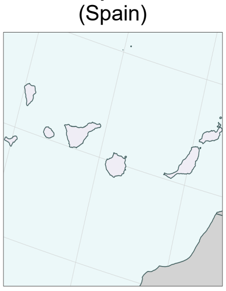
Azores (Portugal)



Madeira (Portugal)



Canary Islands (Spain)



Malta

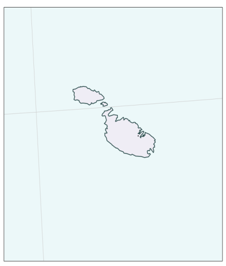


Table M7: Geographical and time averages

YEAR : **2015**
SAMPLE TYPE : **milk (Bq l $^{-1}$)**
NUCLIDE CATEGORY : **caesium-137 (^{137}Cs)**

DENSE

Country	N	L	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual average	Monthly max	M
AT	179	28	< RL	< RL	< RL	< RL	< RL	< RL	8
BE	159	3	< RL	< RL	< RL	< RL	< RL	< RL	5
BG									
CY	6	1			< RL	< RL	< RL	< RL	7
CZ	124	53	< RL	< RL	< RL	< RL	< RL	< RL	5
DE-N	341	40	< RL	< RL	< RL	< RL	< RL	< RL	6
DE-C	234	42	< RL	< RL	< RL	< RL	< RL	< RL	4
DE-S	324	57	< RL	< RL	< RL	< RL	< RL	< RL	11
DE-E	288	46	< RL	< RL	< RL	< RL	< RL	< RL	4
DE	1187	185	< RL	< RL	< RL	< RL	< RL	< RL	4
DK	34	7	< RL		< RL	< RL	< RL	< RL	1
EE	12	3	< RL	< RL	< RL	< RL	< RL	< RL	7
ES-N	36	3	< RL	< RL	< RL	< RL	< RL	< RL	7
ES-C	12	3	< RL	< RL	< RL	< RL	< RL	< RL	10
ES-S	12	1	< RL	< RL	< RL	< RL	< RL	< RL	5
ES-E	12	1	< RL	< RL	< RL	< RL	< RL	< RL	3
ES	72	8	< RL	< RL	< RL	< RL	< RL	< RL	7
FI-N	12	1	< RL	< RL	< RL	< RL	< RL	< RL	6
FI-S	48	4	6.1E-01	5.4E-01	< RL	5.2E-01	5.4E-01	7.5E-01	2
FI	60	5	5.5E-01	< RL	< RL	< RL	< RL	6.6E-01	2
FR-NW	35	21	< RL	< RL	< RL	< RL	< RL	< RL	7
FR-NE	8	8		< RL	< RL	< RL	< RL	< RL	6
FR-SW	4	4		< RL		< RL	< RL	< RL	6
FR-SE	3	3	< RL			< RL	< RL	< RL	11
FR	50	36	< RL	< RL	< RL	< RL	< RL	< RL	7
GB-EN									
GB-WL									
GB-SC	28	5	< RL	< RL	< RL	< RL	< RL	< RL	7
GB-NI									
GB	28	5	< RL	< RL	< RL	< RL	< RL	< RL	7
GR	12	1	< RL	< RL	< RL	< RL	< RL	< RL	1
HR-A	6	1	< RL	< RL	< RL	< RL	< RL	< RL	4
HR-C	26	3	< RL	< RL	< RL	< RL	< RL	< RL	1
HR	32	4	< RL	< RL	< RL	< RL	< RL	< RL	1
HU	278	25	< RL	< RL	< RL	< RL	< RL	< RL	3
IE	23	4	< RL	< RL	< RL	< RL	< RL	< RL	4
IT-N	421	101	< RL	< RL	< RL	< RL	< RL	< RL	8
IT-C	108	28	< RL	< RL	< RL	< RL	< RL	< RL	1
IT-S	103	21	< RL	< RL	< RL	< RL	< RL	< RL	10
IT	632	150	< RL	< RL	< RL	< RL	< RL	< RL	8
LT	45	11	< RL	< RL	< RL	< RL	< RL	< RL	11
LU	35	3	< RL	< RL	< RL	< RL	< RL	< RL	4
LV									
MT	4	1	< RL	< RL	< RL	< RL	< RL	< RL	6
NL	12	1	< RL	< RL	< RL	< RL	< RL	< RL	1
PL-N	18	9	< RL	< RL	< RL	< RL	< RL	< RL	1
PL-S	2	1	5.5E-01	5.5E-01	5.5E-01	5.5E-01	5.5E-01	5.5E-01	12
PL	20	10	< RL	< RL	< RL	< RL	< RL	< RL	1
PT	36	7	< RL	< RL	< RL	< RL	< RL	< RL	4
RO-N									
RO-S									
RO									
SE-N	8	2	< RL	< RL	< RL	< RL	< RL	< RL	10
SE-S	12	3	< RL	< RL	< RL	< RL	< RL	< RL	6
SE	20	5	< RL	< RL	< RL	< RL	< RL	< RL	6
SI	34	4	< RL	< RL	< RL	< RL	< RL	< RL	9
SK	27	5	< RL	< RL	< RL	< RL	< RL	< RL	1

RL: reporting level for ^{137}Cs In milk, i.e. 5.0 E-01 BQ/L (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

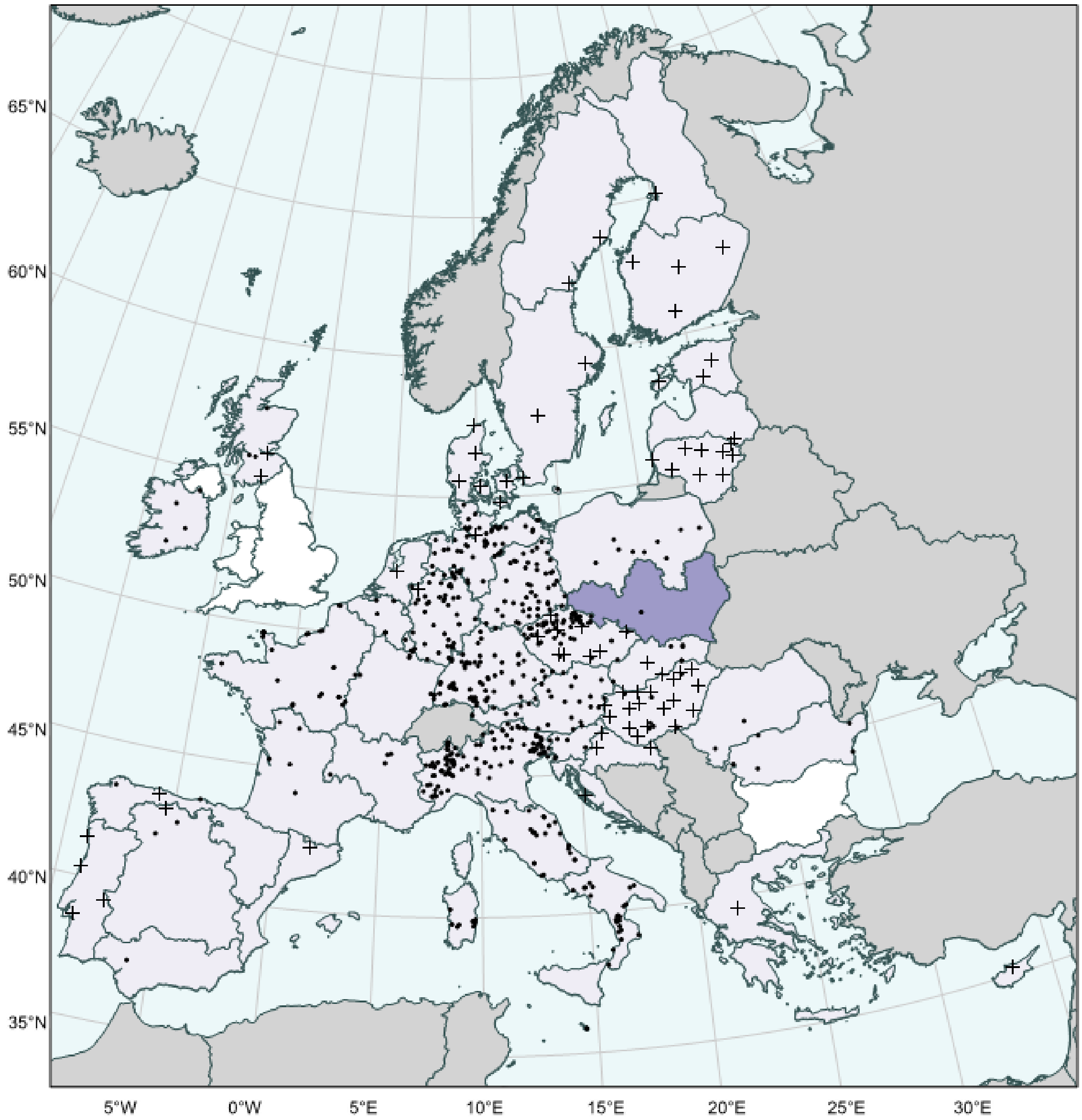
N: Number of measurements considered in calculating the annual concentration.
L: Number of sampling locations considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

Fig. M8: Geographical and time averages

YEAR : 2016
SAMPLE TYPE : milk (Bq l $^{-1}$)
NUCLIDE CATEGORY : caesium-137 (^{137}Cs)

	EU (no relevant data reported)		annual avg. < 0.5 Bq l $^{-1}$
	EU (only relevant constraint values above the reporting level reported)		0.5 Bq l $^{-1}$ <= annual avg. < 1.5 Bq l $^{-1}$
			1.5 Bq l $^{-1}$ <= annual avg. < 5 Bq l $^{-1}$
	Outside EU (in 2016)		5 Bq l $^{-1}$ <= annual avg.

. sample location (Coordinate Accuracy = Precise or Not Specified)
+ regional average (Coordinate Accuracy = Reference Point of Region)



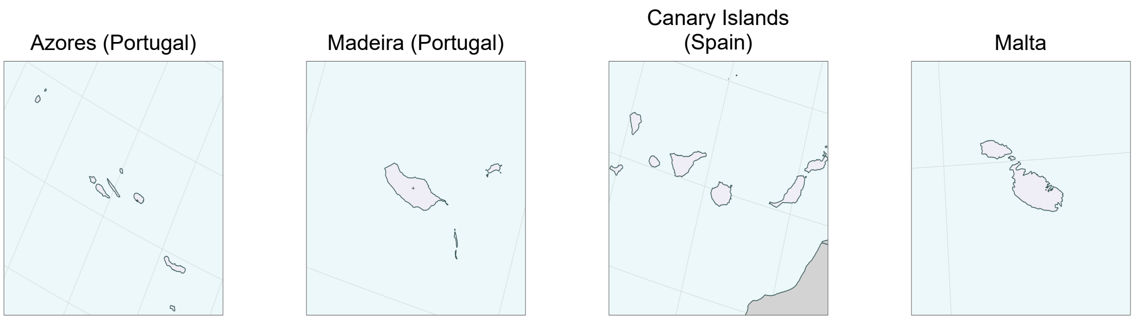


Table M8: Geographical and time averages

YEAR : 2016
SAMPLE TYPE : milk (Bq l $^{-1}$)
NUCLIDE CATEGORY : caesium-137 (^{137}Cs)

DENSE

Country	N	L	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual average	Monthly max	M
AT	177	28	< RL	< RL	< RL	< RL	< RL	< RL	8
BE	156	3	< RL	< RL	< RL	< RL	< RL	< RL	11
BG									
CY	6	1		< RL		< RL	< RL	< RL	6
CZ	139	64	< RL	< RL	< RL	< RL	< RL	< RL	7
DE-N	362	49	< RL	< RL	< RL	< RL	< RL	< RL	11
DE-C	237	45	< RL	< RL	< RL	< RL	< RL	< RL	2
DE-S	334	65	< RL	< RL	< RL	< RL	< RL	< RL	11
DE-E	282	44	< RL	< RL	< RL	< RL	< RL	< RL	2
DE	1215	203	< RL	< RL	< RL	< RL	< RL	< RL	12
DK	42	7	< RL	< RL	< RL	< RL	< RL	< RL	9
EE	12	3	< RL	< RL	< RL	< RL	< RL	< RL	7
ES-N	36	3	< RL	< RL	< RL	< RL	< RL	< RL	9
ES-C	12	3	< RL	< RL	< RL	< RL	< RL	< RL	1
ES-S	12	1	< RL	< RL	< RL	< RL	< RL	< RL	2
ES-E	12	1	< RL	< RL	< RL	< RL	< RL	< RL	6
ES	72	8	< RL	< RL	< RL	< RL	< RL	< RL	1
FI-N	12	1	< RL	< RL	< RL	< RL	< RL	< RL	3
FI-S	48	4	5.4E-01	< RL	< RL	< RL	< RL	6.4E-01	3
FI	60	5	< RL	< RL	< RL	< RL	< RL	5.6E-01	3
FR-NW	35	25	< RL	< RL	< RL	< RL	< RL	< RL	11
FR-NE	8	8		< RL	< RL	< RL	< RL	< RL	7
FR-SW	10	5		< RL	< RL	< RL	< RL	< RL	11
FR-SE	4	4		< RL		< RL	< RL	< RL	10
FR	57	42	< RL	< RL	< RL	< RL	< RL	< RL	11
GB-EN									
GB-WL									
GB-SC	28	5	< RL	< RL	< RL	< RL	< RL	< RL	4
GB-NI									
GB	28	5	< RL	< RL	< RL	< RL	< RL	< RL	4
GR	5	1	< RL	< RL			< RL	< RL	1
HR-A	13	1	< RL	< RL	< RL	< RL	< RL	< RL	7
HR-C	51	3	< RL	< RL	< RL	< RL	< RL	< RL	7
HR	64	4	< RL	< RL	< RL	< RL	< RL	< RL	7
HU	288	26	< RL	< RL	< RL	< RL	< RL	< RL	11
IE	28	4	< RL	< RL	< RL	< RL	< RL	< RL	10
IT-N	427	108	< RL	< RL	< RL	< RL	< RL	6.4E-01	8
IT-C	100	24	< RL	< RL	< RL	< RL	< RL	< RL	1
IT-S	166	32	< RL	< RL	< RL	< RL	< RL	< RL	7
IT	693	164	< RL	< RL	< RL	< RL	< RL	< RL	8
LT	43	10	< RL	< RL	< RL	< RL	< RL	< RL	7
LU	36	3	< RL	< RL	< RL	< RL	< RL	< RL	12
LV	8	1	< RL	< RL	< RL	< RL	< RL	< RL	4
MT	4	2	< RL	< RL	< RL	< RL	< RL	< RL	3
NL	12	1	< RL	< RL	< RL	< RL	< RL	< RL	1
PL-N	9	9	< RL	< RL	< RL	< RL	< RL	< RL	1
PL-S	1	1	5.7E-01	5.7E-01	5.7E-01	5.7E-01	5.7E-01	5.7E-01	1
PL	10	10	< RL	< RL	< RL	< RL	< RL	< RL	1
PT	36	6	< RL	< RL	< RL	< RL	< RL	< RL	6
RO-N	2	2		< RL	< RL	< RL	< RL	< RL	4
RO-S	11	5	< RL	< RL	< RL	< RL	< RL	< RL	1
RO	13	7	< RL	< RL	< RL	< RL	< RL	< RL	12
SE-N	8	2	< RL	< RL	< RL	< RL	< RL	< RL	11
SE-S	12	3	< RL	< RL	< RL	< RL	< RL	< RL	1
SE	20	5	< RL	< RL	< RL	< RL	< RL	< RL	11
SI	34	4	< RL	< RL	< RL	< RL	< RL	< RL	10
SK	32	8	< RL	< RL	< RL	< RL	< RL	< RL	3

RL: reporting level for ^{137}Cs In milk, i.e. 5.0 E-01 BQ/L (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
L: Number of sampling locations considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

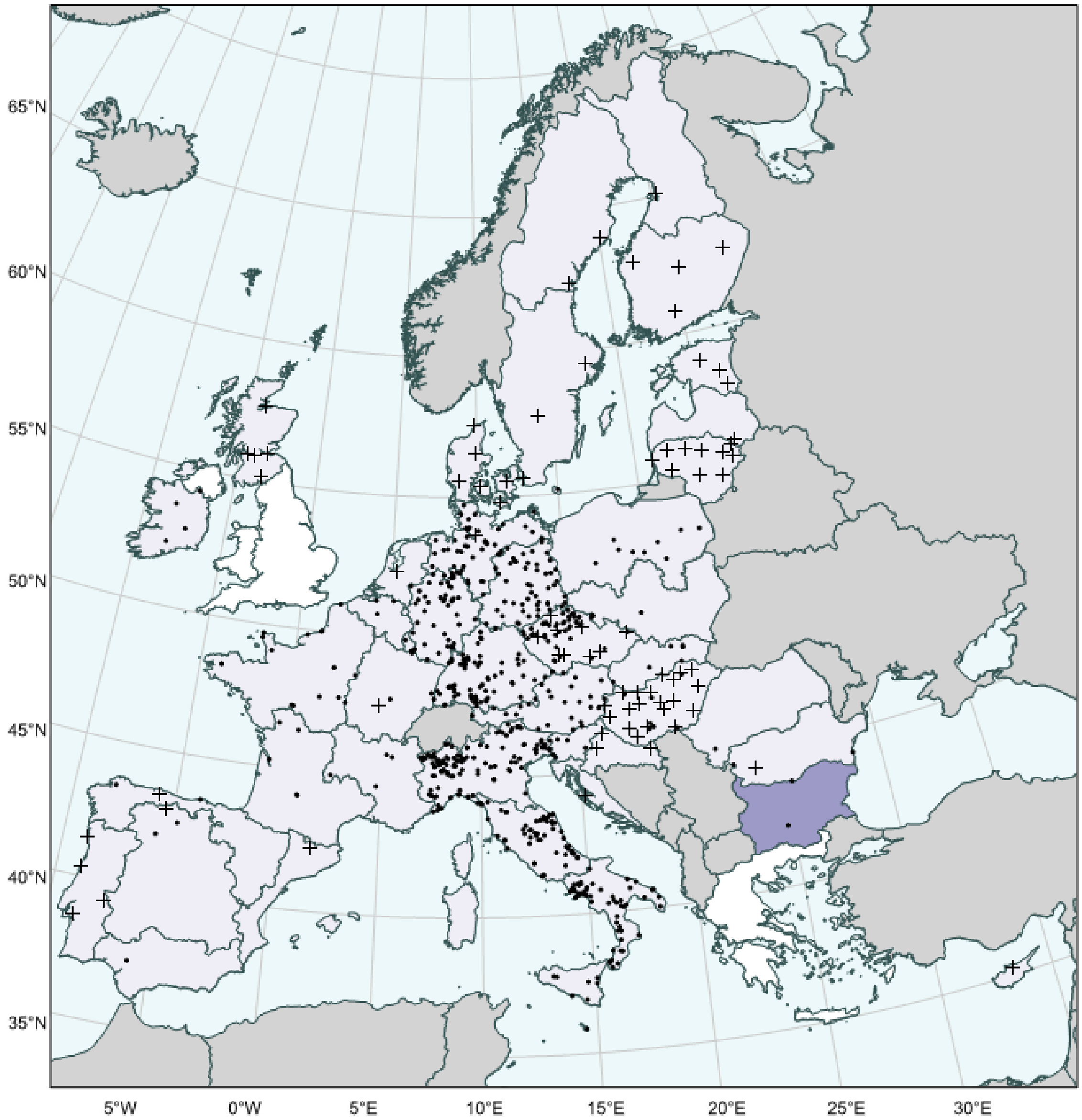
Fig. M9: Geographical and time averages

YEAR	:	2017
SAMPLE TYPE	:	milk ($Bq\ l^{-1}$)
NUCLIDE CATEGORY	:	caesium-137 (^{137}Cs)

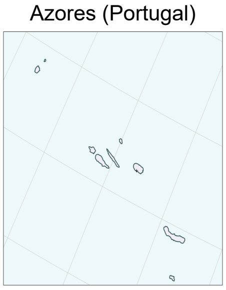
EU (no relevant data reported)
EU (only relevant constraint values above the reporting level reported)
Outside EU (in 2017)

annual avg. < 0.5 $Bq\ l^{-1}$
0.5 $Bq\ l^{-1}$ <= annual avg. < 1.5 $Bq\ l^{-1}$
1.5 $Bq\ l^{-1}$ <= annual avg. < 5 $Bq\ l^{-1}$
5 $Bq\ l^{-1}$ <= annual avg.

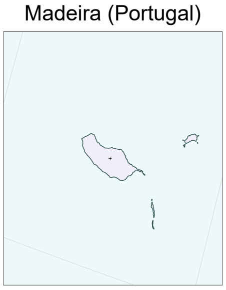
. sample location (Coordinate Accuracy = Precise or Not Specified)
\+ regional average (Coordinate Accuracy = Reference Point of Region)



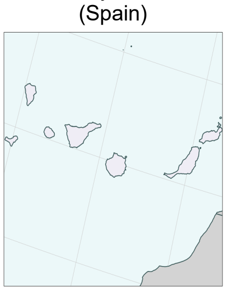
Azores (Portugal)



Madeira (Portugal)



Canary Islands (Spain)



Malta

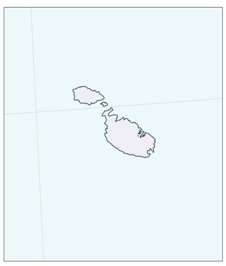


Table M9: Geographical and time averages

DENSE

YEAR : 2017

SAMPLE TYPE : milk (Bq l^{-1})

NUCLIDE CATEGORY : caesium-137 (^{137}Cs)

Country	N	L	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual average	Monthly max	M
AT	175	28	< RL	< RL	< RL	< RL	< RL	< RL	7
BE	159	3	< RL	< RL	< RL	< RL	< RL	< RL	10
BG	1	1				6.2E-01	6.2E-01	6.2E-01	10
CY	6	1	< RL	< RL			< RL	< RL	5
CZ	129	57	< RL	< RL	< RL	< RL	< RL	< RL	11
DE-N	358	44	< RL	< RL	< RL	< RL	< RL	< RL	2
DE-C	226	47	< RL	< RL	< RL	< RL	< RL	< RL	8
DE-S	325	68	< RL	< RL	< RL	< RL	< RL	< RL	1
DE-E	296	49	< RL	< RL	< RL	< RL	< RL	< RL	4
DE	1205	208	< RL	< RL	< RL	< RL	< RL	< RL	2
DK	41	7	< RL	< RL	< RL	< RL	< RL	< RL	5
EE	12	3	< RL	< RL	< RL	< RL	< RL	< RL	2
ES-N	36	3	< RL	< RL	< RL	< RL	< RL	< RL	10
ES-C	12	3	< RL	< RL	< RL	< RL	< RL	< RL	1
ES-S	12	1	< RL	< RL	< RL	< RL	< RL	< RL	1
ES-E	12	1	< RL	< RL	< RL	< RL	< RL	< RL	7
ES	72	8	< RL	< RL	< RL	< RL	< RL	< RL	10
FI-N	12	1	< RL	< RL	< RL	< RL	< RL	< RL	11
FI-S	48	4	< RL	< RL	< RL	< RL	< RL	< RL	12
FI	60	5	< RL	< RL	< RL	< RL	< RL	< RL	12
FR-NW	33	16	< RL	< RL	< RL	< RL	< RL	< RL	3
FR-NE	9	5	< RL	< RL	< RL	< RL	< RL	< RL	6
FR-SW	9	5		< RL	< RL	< RL	< RL	< RL	10
FR-SE	5	4		< RL	< RL	< RL	< RL	< RL	9
FR	56	30	< RL	< RL	< RL	< RL	< RL	< RL	3
GB-EN									
GB-WL									
GB-SC	28	5	< RL	< RL	< RL	< RL	< RL	< RL	12
GB-NI									
GB	28	5	< RL	< RL	< RL	< RL	< RL	< RL	12
GR									
HR-A	8	1	< RL	< RL	< RL	< RL	< RL	< RL	9
HR-C	30	3	< RL	< RL	< RL	< RL	< RL	< RL	3
HR	38	4	< RL	< RL	< RL	< RL	< RL	< RL	3
HU	305	27	< RL	< RL	< RL	< RL	< RL	< RL	6
IE	29	4	< RL	< RL	< RL	< RL	< RL	< RL	11
IT-N	362	126	< RL	< RL	< RL	< RL	< RL	< RL	7
IT-C	146	58	< RL	< RL	< RL	< RL	< RL	< RL	5
IT-S	163	66	< RL	< RL	< RL	< RL	< RL	7.2E-01	7
IT	671	250	< RL	< RL	< RL	< RL	< RL	< RL	7
LT	44	12	< RL	< RL	< RL	< RL	< RL	< RL	5
LU	35	3	< RL	< RL	< RL	< RL	< RL	< RL	5
LV	8	1	< RL	< RL	< RL	< RL	< RL	< RL	11
MT	3	1	< RL		< RL	< RL	< RL	< RL	3
NL	12	1	< RL	< RL	< RL	< RL	< RL	< RL	1
PL-N	9	9				< RL	< RL	< RL	12
PL-S	1	1				< RL	< RL	< RL	12
PL	10	10				< RL	< RL	< RL	12
PT	35	6	< RL	< RL	< RL	< RL	< RL	< RL	11
RO-N	1	1	< RL	< RL	< RL	< RL	< RL	< RL	3
RO-S	9	4	< RL	< RL	< RL		< RL	< RL	3
RO	10	5	< RL	< RL	< RL	< RL	< RL	< RL	1
SE-N	7	2	< RL	< RL	< RL	< RL	< RL	< RL	8
SE-S	12	3	< RL	< RL	< RL	< RL	< RL	< RL	8
SE	19	5	< RL	< RL	< RL	< RL	< RL	< RL	6
SI	33	4	< RL	< RL	< RL	< RL	< RL	< RL	4
SK	29	6	< RL	< RL	< RL	< RL	< RL	< RL	3

RL: reporting level for ^{137}Cs In milk, i.e. 5.0 E-01 BQ/L (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
L: Number of sampling locations considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

DENSE

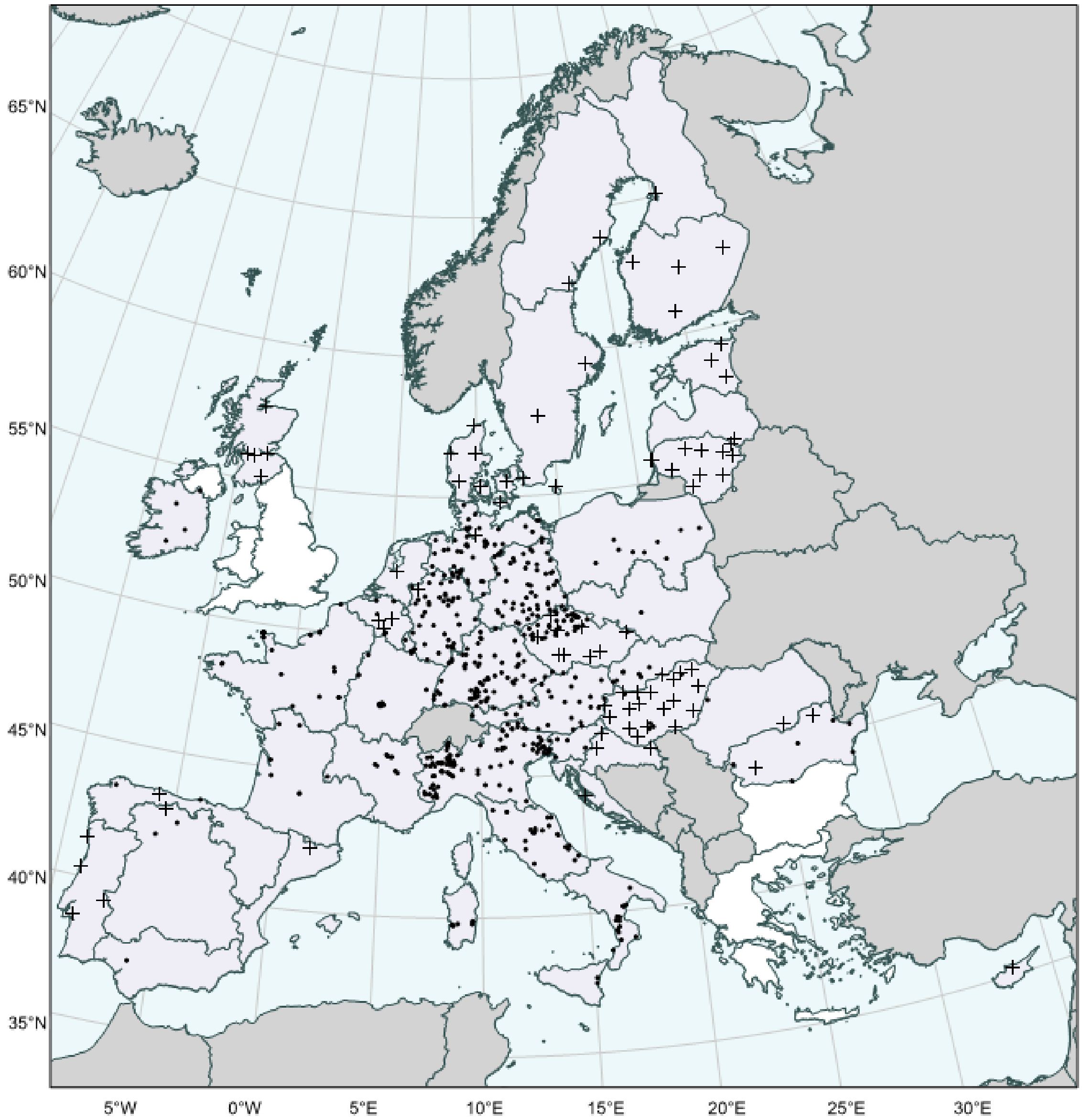
Fig. M10: Geographical and time averages

YEAR	:	2018
SAMPLE TYPE	:	milk (Bq l $^{-1}$)
NUCLIDE CATEGORY	:	caesium-137 (^{137}Cs)

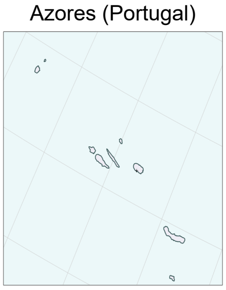
EU (no relevant data reported)	annual avg. < 0.5 Bq l $^{-1}$
EU (only relevant constraint values above the reporting level reported)	0.5 Bq l $^{-1}$ <= annual avg. < 1.5 Bq l $^{-1}$
	1.5 Bq l $^{-1}$ <= annual avg. < 5 Bq l $^{-1}$
Outside EU (in 2018)	5 Bq l $^{-1}$ <= annual avg.

. sample location (Coordinate Accuracy = Precise or Not Specified)

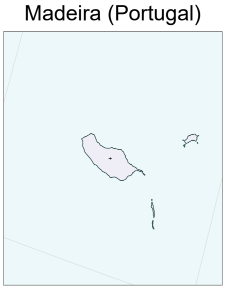
+ regional average (Coordinate Accuracy = Reference Point of Region)



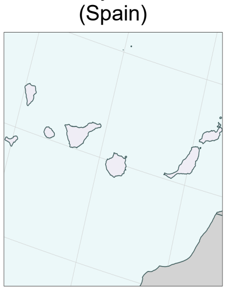
Azores (Portugal)



Madeira (Portugal)



Canary Islands (Spain)



Malta

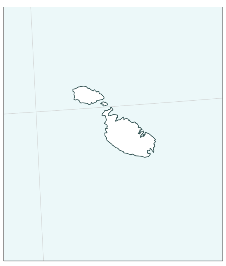


Table M10: Geographical and time averages

DENSE

YEAR : **2018**
SAMPLE TYPE : **milk (Bq l $^{-1}$)**
NUCLIDE CATEGORY : **caesium-137 (^{137}Cs)**

Country	N	L	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual average	Monthly max	M
AT	175	28	< RL	< RL	< RL	< RL	< RL	< RL	7
BE	161	6	< RL	< RL	< RL	< RL	< RL	< RL	6
BG									
CY	3	1			< RL	< RL	< RL	< RL	7
CZ	75	46	< RL	< RL	< RL	< RL	< RL	< RL	12
DE-N	338	45	< RL	< RL	< RL	< RL	< RL	< RL	4
DE-C	238	47	< RL	< RL	< RL	< RL	< RL	< RL	1
DE-S	322	65	< RL	< RL	< RL	< RL	< RL	< RL	2
DE-E	292	49	< RL	< RL	< RL	< RL	< RL	< RL	11
DE	1190	206	< RL	< RL	< RL	< RL	< RL	< RL	4
DK	42	8	< RL	< RL	< RL	< RL	< RL	< RL	11
EE	12	3	< RL	< RL	< RL	< RL	< RL	< RL	7
ES-N	36	3	< RL	< RL	< RL	< RL	< RL	< RL	10
ES-C	12	3	< RL	< RL	< RL	< RL	< RL	< RL	8
ES-S	12	1	< RL	< RL	< RL	< RL	< RL	< RL	1
ES-E	12	1	< RL	< RL	< RL	< RL	< RL	< RL	3
ES	72	8	< RL	< RL	< RL	< RL	< RL	< RL	10
FI-N	11	1	< RL	< RL	< RL	< RL	< RL	< RL	9
FI-S	48	4	< RL	< RL	5.1E-01	5.3E-01	< RL	6.2E-01	9
FI	59	5	< RL	< RL	< RL	< RL	< RL	5.6E-01	9
FR-NW	26	22	< RL	< RL	< RL	< RL	< RL	< RL	4
FR-NE	16	15	< RL	< RL	< RL	< RL	< RL	< RL	5
FR-SW	7	6		< RL	< RL	< RL	< RL	< RL	7
FR-SE	9	9		< RL	< RL		< RL	< RL	9
FR	58	52	< RL	< RL	< RL	< RL	< RL	< RL	5
GB-EN									
GB-WL									
GB-SC	28	5	< RL	< RL	< RL	< RL	< RL	< RL	10
GB-NI									
GB	28	5	< RL	< RL	< RL	< RL	< RL	< RL	10
GR									
HR-A	10	1	< RL	< RL	< RL	< RL	< RL	< RL	1
HR-C	48	3	< RL	< RL	< RL	< RL	< RL	< RL	8
HR	58	4	< RL	< RL	< RL	< RL	< RL	< RL	8
HU	300	24	< RL	< RL	< RL	< RL	< RL	< RL	6
IE	26	4	< RL	< RL	< RL	< RL	< RL	< RL	1
IT-N	371	102	< RL	< RL	< RL	< RL	< RL	< RL	8
IT-C	88	24	< RL	< RL	< RL	< RL	< RL	< RL	5
IT-S	146	23	< RL	< RL	< RL	< RL	< RL	< RL	5
IT	605	149	< RL	< RL	< RL	< RL	< RL	< RL	8
LT	45	12	< RL	< RL	< RL	< RL	< RL	< RL	7
LU	36	3	< RL	< RL	< RL	< RL	< RL	< RL	4
LV	5	1	< RL	< RL	< RL		< RL	< RL	3
MT									
NL	12	1	< RL	< RL	< RL	< RL	< RL	< RL	1
PL-N	9	9	< RL	< RL	< RL	< RL	< RL	< RL	1
PL-S	1	1	< RL	< RL	< RL	< RL	< RL	< RL	1
PL	10	10	< RL	< RL	< RL	< RL	< RL	< RL	1
PT	36	6	< RL	< RL	< RL	< RL	< RL	< RL	6
RO-N	5	2	< RL	< RL	< RL	< RL	< RL	< RL	2
RO-S	22	8	< RL	< RL	< RL	< RL	< RL	< RL	3
RO	27	10	< RL	< RL	< RL	< RL	< RL	< RL	2
SE-N	8	2	< RL	< RL	< RL	< RL	< RL	< RL	6
SE-S	12	3	< RL	< RL	< RL	< RL	< RL	< RL	11
SE	20	5	< RL	< RL	< RL	< RL	< RL	< RL	6
SI	30	4	< RL	< RL	< RL	< RL	< RL	< RL	2
SK	31	7	< RL	< RL	< RL	< RL	< RL	< RL	9

RL: reporting level for ^{137}Cs In milk, i.e. 5.0 E-01 BQ/L (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
L: Number of sampling locations considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

Fig. M11: **Geographical and time averages**

YEAR	:	2019
SAMPLE TYPE	:	milk (Bq l $^{-1}$)
NUCLIDE CATEGORY	:	caesium-137 (^{137}Cs)

EU (no relevant data reported)				annual avg.	<	0.5	Bq l $^{-1}$
EU (only relevant constraint values above the reporting level reported)	0.5	Bq l $^{-1}$	<=	annual avg.	<	1.5	Bq l $^{-1}$
	1.5	Bq l $^{-1}$	<=	annual avg.	<	5	Bq l $^{-1}$
Outside EU (in 2019)	5	Bq l $^{-1}$	<=	annual avg.			

. sample location (Coordinate Accuracy = Precise or Not Specified)

\+ regional average (Coordinate Accuracy = Reference Point of Region)

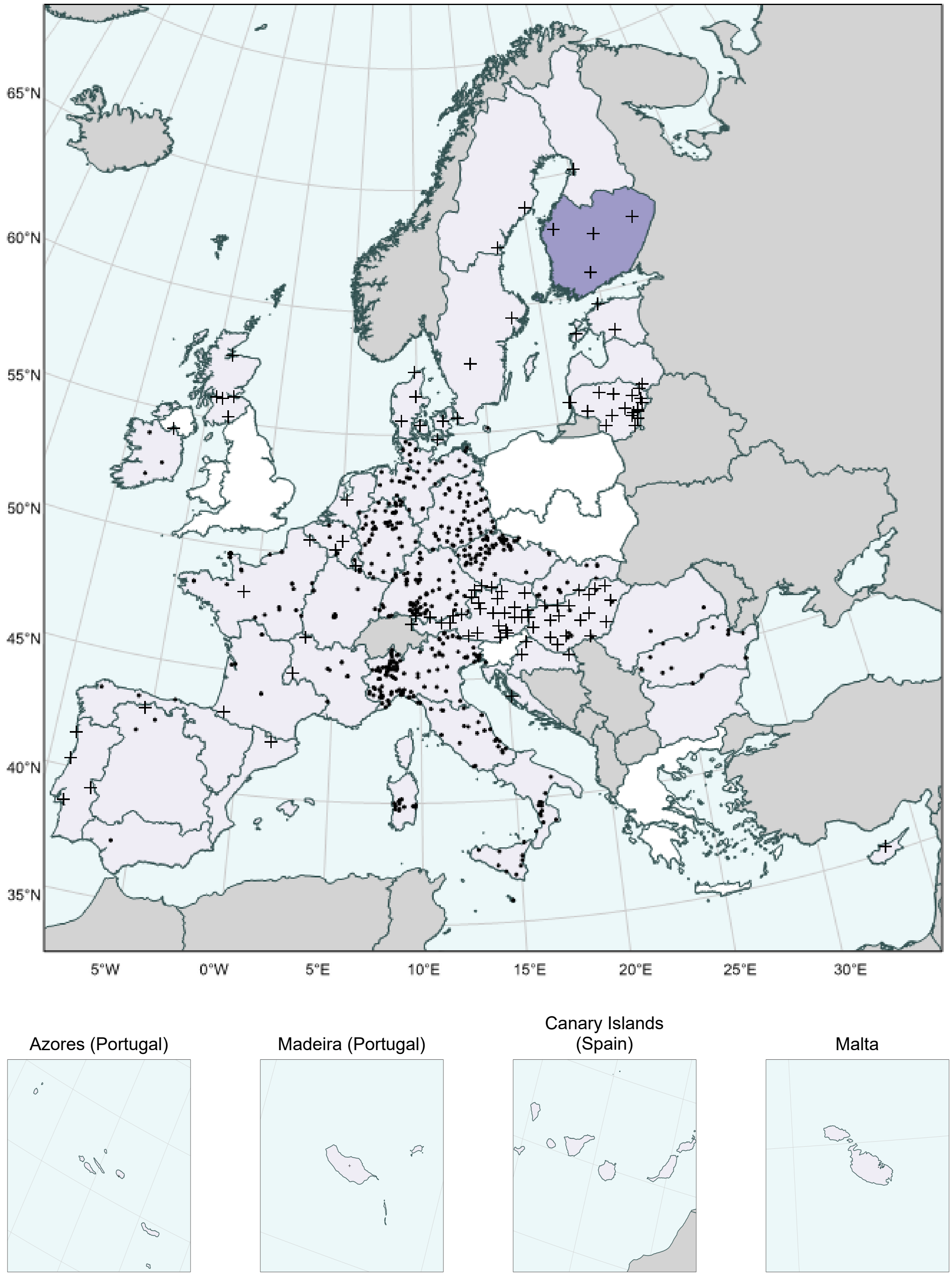


Table M11: Geographical and time averages

YEAR : **2019**
SAMPLE TYPE : **milk (Bq l $^{-1}$)**
NUCLIDE CATEGORY : **caesium-137 (^{137}Cs)**

DENSE

Country	N	L	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual average	Monthly max	M
AT	177	28	< RL	< RL	< RL	< RL	< RL	< RL	7
BE	164	5	< RL	< RL	< RL	< RL	< RL	< RL	8
BG	3	1	< RL	< RL	< RL		< RL	< RL	3
CY	3	1	< RL	< RL			< RL	< RL	3
CZ	76	56	< RL	< RL	< RL	< RL	< RL	< RL	9
DE-N	307	33	< RL	< RL	< RL	< RL	< RL	< RL	1
DE-C	204	42	< RL	< RL	< RL	< RL	< RL	< RL	11
DE-S	328	63	< RL	< RL	< RL	< RL	< RL	< RL	4
DE-E	282	49	< RL	< RL	< RL	< RL	< RL	< RL	5
DE	1121	187	< RL	< RL	< RL	< RL	< RL	< RL	5
DK	38	7	< RL	< RL	< RL	< RL	< RL	< RL	4
EE	12	3	< RL	< RL	< RL	< RL	< RL	< RL	6
ES-N	36	3	< RL	< RL	< RL	< RL	< RL	< RL	10
ES-C	12	3	< RL	< RL	< RL	< RL	< RL	< RL	9
ES-S	12	1	< RL	< RL	< RL	< RL	< RL	< RL	7
ES-E	12	1	< RL	< RL	< RL	< RL	< RL	< RL	10
ES	72	8	< RL	< RL	< RL	< RL	< RL	< RL	7
FI-N	12	1	< RL	< RL	< RL	< RL	< RL	< RL	1
FI-S	48	4	6.5E-01	< RL	< RL	< RL	5.1E-01	7.0E-01	3
FI	60	5	5.9E-01	< RL	< RL	< RL	< RL	6.2E-01	3
FR-NW	35	32	< RL	< RL	< RL	< RL	< RL	< RL	6
FR-NE	16	15	< RL	< RL	< RL	< RL	< RL	< RL	6
FR-SW	8	8		< RL	< RL	< RL	< RL	< RL	4
FR-SE	8	8		< RL	< RL	< RL	< RL	< RL	11
FR	67	63	< RL	< RL	< RL	< RL	< RL	< RL	6
GB-EN									
GB-WL									
GB-SC	28	5	< RL	< RL	< RL	< RL	< RL	< RL	6
GB-NI									
GB	28	5	< RL	< RL	< RL	< RL	< RL	< RL	6
GR									
HR-A	12	1	< RL	< RL	< RL	< RL	< RL	< RL	3
HR-C	48	3	< RL	< RL	< RL	< RL	< RL	< RL	2
HR	60	4	< RL	< RL	< RL	< RL	< RL	< RL	2
HU	229	27	< RL	< RL	< RL	< RL	< RL	< RL	12
IE	20	4	< RL	< RL	< RL	< RL	< RL	< RL	5
IT-N	428	114	< RL	< RL	< RL	< RL	< RL	< RL	7
IT-C	80	23	< RL	< RL	< RL	< RL	< RL	< RL	10
IT-S	110	36	< RL	< RL	< RL	< RL	< RL	< RL	12
IT	618	173	< RL	< RL	< RL	< RL	< RL	< RL	7
LT	71	20	< RL	< RL	< RL	< RL	< RL	< RL	6
LU	48	4	< RL	< RL	< RL	< RL	< RL	< RL	12
LV	8	1	< RL	< RL	< RL	< RL	< RL	< RL	11
MT	8	1	< RL	< RL	< RL	< RL	< RL	< RL	3
NL	12	1	< RL	< RL	< RL	< RL	< RL	< RL	1
PL-N									
PL-S									
PL									
PT	33	6	< RL	< RL	< RL	< RL	< RL	< RL	6
RO-N	6	3	< RL	< RL	< RL	< RL	< RL	< RL	2
RO-S	18	13	< RL	< RL	< RL	< RL	< RL	< RL	10
RO	24	16	< RL	< RL	< RL	< RL	< RL	< RL	10
SE-N	8	2	< RL	< RL	< RL	< RL	< RL	< RL	4
SE-S	12	3	< RL	< RL	< RL	< RL	< RL	< RL	1
SE	20	5	< RL	< RL	< RL	< RL	< RL	< RL	4
SI									
SK	48	13	< RL	< RL	< RL	< RL	< RL	< RL	12

RL: reporting level for ^{137}Cs In milk, i.e. 5.0 E-01 BQ/L (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
L: Number of sampling locations considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

DENSE

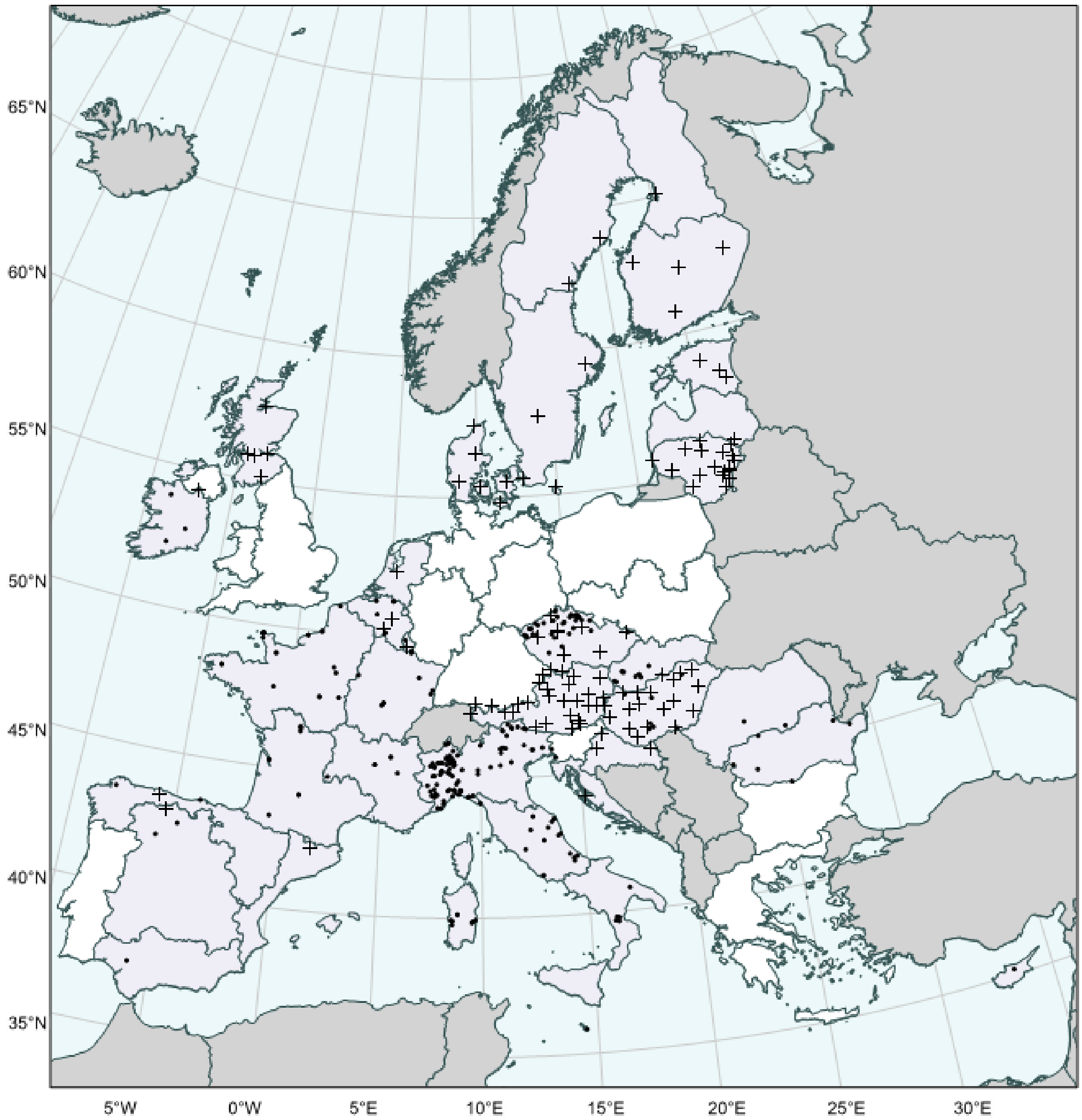
Fig. M12: Geographical and time averages

YEAR	:	2020
SAMPLE TYPE	:	milk (Bq l $^{-1}$)
NUCLIDE CATEGORY	:	caesium-137 (^{137}Cs)

EU (no relevant data reported)		annual avg. < 0.5 Bq l $^{-1}$
EU (only relevant constraint values above the reporting level reported)		0.5 Bq l $^{-1}$ <= annual avg. < 1.5 Bq l $^{-1}$
		1.5 Bq l $^{-1}$ <= annual avg. < 5 Bq l $^{-1}$
Outside EU (in 2020)		5 Bq l $^{-1}$ <= annual avg.

. sample location (Coordinate Accuracy = Precise or Not Specified)

\+ regional average (Coordinate Accuracy = Reference Point of Region)



Azores (Portugal) Madeira (Portugal) Canary Islands (Spain) Malta

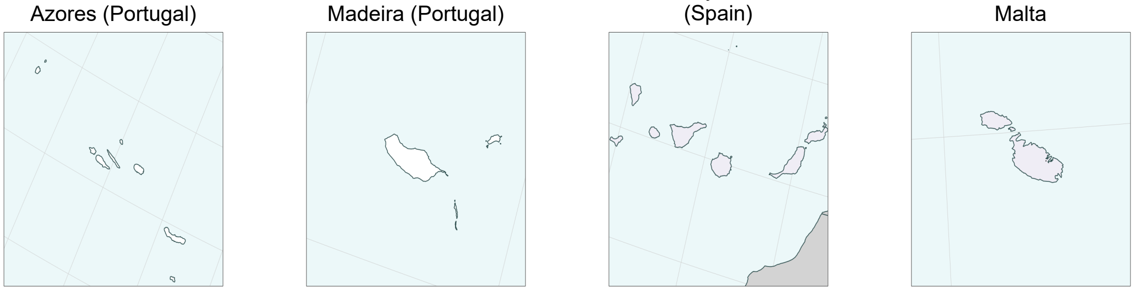


Table M12: Geographical and time averages

YEAR : **2020**
SAMPLE TYPE : **milk (Bq l $^{-1}$)**
NUCLIDE CATEGORY : **caesium-137 (^{137}Cs)**

DENSE

Country	N	L	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual average	Monthly max	M
AT	145	28	< RL	< RL	< RL	< RL	< RL	< RL	10
BE	322	5	< RL	< RL	< RL	< RL	< RL	< RL	8
BG									
CY	3	1	< RL	< RL	< RL		< RL	< RL	8
CZ	58	44	< RL	< RL	< RL	< RL	< RL	< RL	9
DE-N									
DE-C									
DE-S									
DE-E									
DE									
DK	34	7	< RL	< RL	< RL	< RL	< RL	< RL	10
EE	12	3	< RL	< RL	< RL	< RL	< RL	< RL	7
ES-N	36	3	< RL	< RL	< RL	< RL	< RL	< RL	6
ES-C	10	3	< RL	< RL	< RL	< RL	< RL	< RL	2
ES-S	11	1	< RL	< RL	< RL	< RL	< RL	< RL	5
ES-E	12	1	< RL	< RL	< RL	< RL	< RL	< RL	5
ES	69	8	< RL	< RL	< RL	< RL	< RL	< RL	5
FI-N	12	1	< RL	< RL	< RL	< RL	< RL	< RL	1
FI-S	48	4	< RL	< RL	< RL	< RL	< RL	5.4E-01	3
FI	60	5	< RL	< RL	< RL	< RL	< RL	< RL	3
FR-NW	20	19		< RL	< RL	< RL	< RL	< RL	11
FR-NE	10	10		< RL	< RL	< RL	< RL	< RL	11
FR-SW	11	9		< RL	< RL	< RL	< RL	< RL	9
FR-SE	6	6		< RL	< RL	< RL	< RL	< RL	11
FR	47	44		< RL	< RL	< RL	< RL	< RL	9
GB-EN									
GB-WL									
GB-SC	26	5	< RL	< RL	< RL	< RL	< RL	< RL	10
GB-NI									
GB	26	5	< RL	< RL	< RL	< RL	< RL	< RL	10
GR									
HR-A	12	1	< RL	< RL	< RL	< RL	< RL	< RL	11
HR-C	48	3	< RL	< RL	< RL	< RL	< RL	< RL	2
HR	60	4	< RL	< RL	< RL	< RL	< RL	< RL	2
HU	144	26	< RL	< RL	< RL	< RL	< RL	< RL	9
IE	24	4	< RL	< RL	< RL	< RL	< RL	< RL	6
IT-N	292	94	< RL	< RL	< RL	< RL	< RL	< RL	9
IT-C	41	16	< RL	< RL	< RL	< RL	< RL	< RL	2
IT-S	27	13	< RL	< RL	< RL	< RL	< RL	< RL	11
IT	360	123	< RL	< RL	< RL	< RL	< RL	< RL	8
LT	67	19	< RL	< RL	< RL	< RL	< RL	< RL	7
LU	40	4	< RL	< RL	< RL	< RL	< RL	< RL	2
LV	16	1	< RL	< RL	< RL	< RL	< RL	< RL	12
MT	2	1		< RL		< RL	< RL	< RL	6
NL	12	1	< RL	< RL	< RL	< RL	< RL	< RL	1
PL-N									
PL-S									
PL									
PT									
RO-N	3	2	< RL	< RL	< RL	< RL	< RL	< RL	2
RO-S	7	6	< RL	< RL	< RL	< RL	< RL	< RL	12
RO	10	8	< RL	< RL	< RL	< RL	< RL	< RL	12
SE-N	8	2	< RL	< RL	< RL	< RL	< RL	< RL	9
SE-S	12	3	< RL	< RL	< RL	< RL	< RL	< RL	8
SE	20	5	< RL	< RL	< RL	< RL	< RL	< RL	9
SI									
SK	41	9	< RL	< RL	< RL	< RL	< RL	< RL	1

RL: reporting level for ^{137}Cs In milk, i.e. 5.0 E-01 BQ/L (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
L: Number of sampling locations considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

DENSE

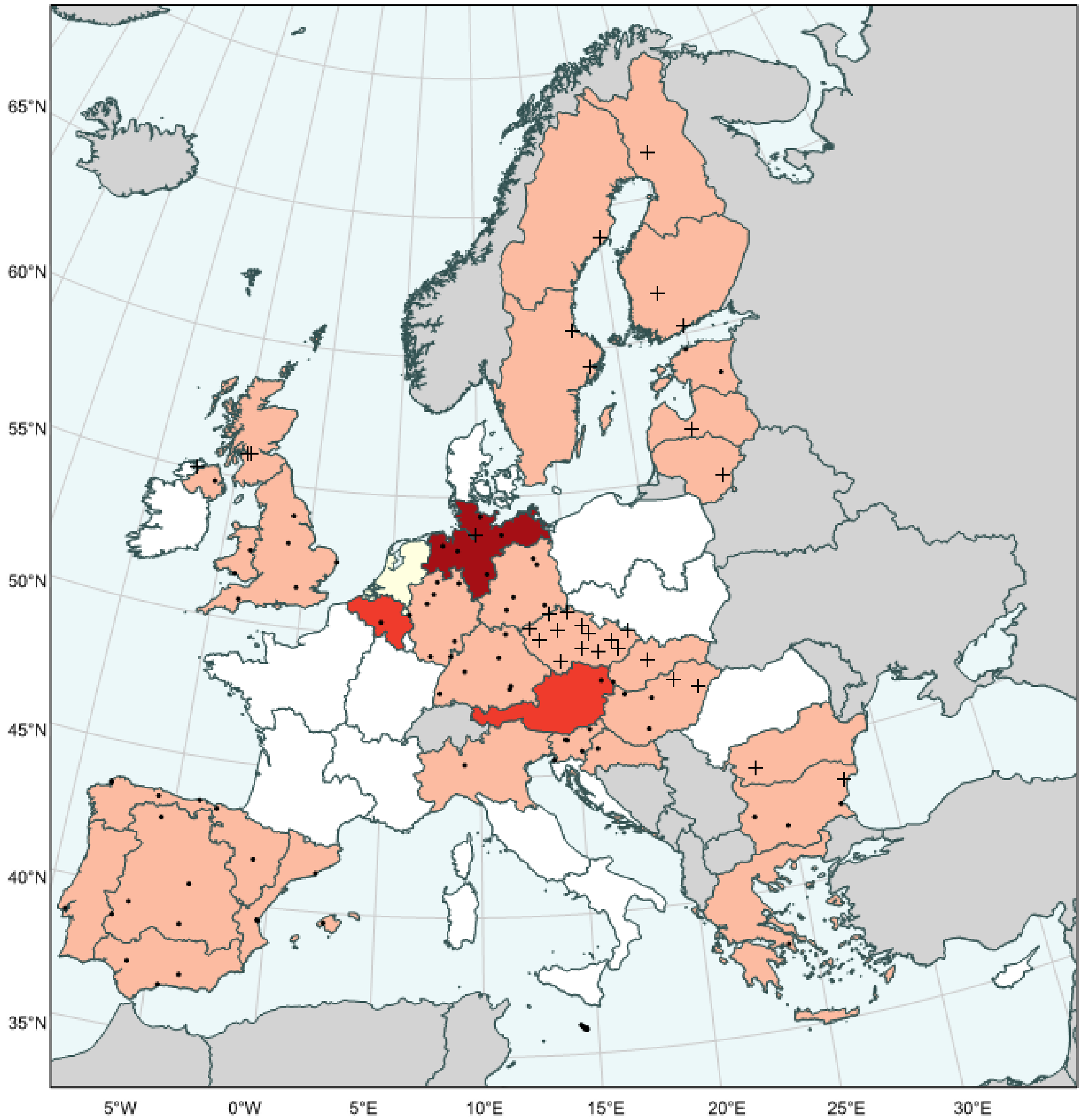
Fig. D1: Geographical and time averages

YEAR	:	2015
SAMPLE TYPE	:	mixed diet (Bq d^{-1} p^{-1})
NUCLIDE CATEGORY	:	strontium-90 (^{90}Sr)

EU (no relevant data reported)	annual avg. < 0.1 Bq d^{-1} p^{-1}
EU (only relevant constraint values above the reporting level reported)	0.1 Bq d^{-1} p^{-1} <= annual avg. < 0.3 Bq d^{-1} p^{-1}
	0.3 Bq d^{-1} p^{-1} <= annual avg. < 1 Bq d^{-1} p^{-1}
Outside EU (in 2015)	1 Bq d^{-1} p^{-1} <= annual avg.

. sample location (Coordinate Accuracy = Precise or Not Specified)

\+ regional average (Coordinate Accuracy = Reference Point of Region)



Azores (Portugal) Madeira (Portugal) Canary Islands (Spain) Malta

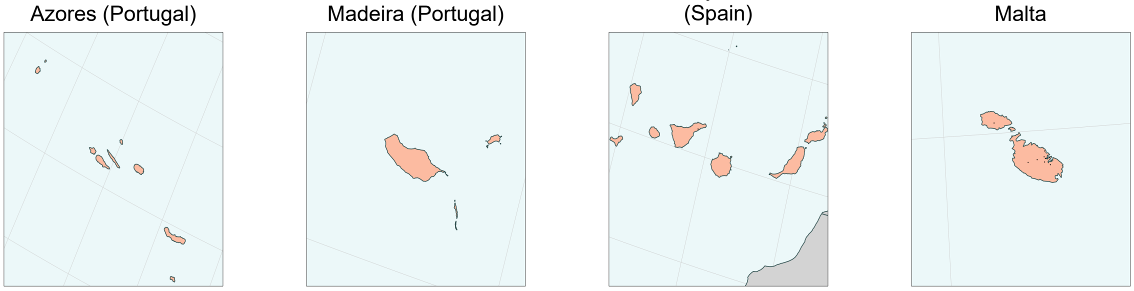


Table D1: Geographical and time averages

YEAR : **2015**
SAMPLE TYPE : **mixed diet (Bq d^{-1} p^{-1})**
NUCLIDE CATEGORY : **strontium-90 (^{90}Sr)**

DENSE

Country	N	L	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual average	Monthly max	M
AT	5	1	1.4E-01	1.2E-01	< RL	< RL	1.1E-01	1.4E-01	1
BE	3	1	1.4E-01		1.5E-01	1.5E-01	1.5E-01	1.5E-01	12
BG	14	4	< RL	< RL	< RL	< RL	< RL	< RL	4
CY									
CZ	19	14	< RL	< RL	< RL	< RL	< RL	< RL	5
DE-N	31	6	< RL	1.1E+00	< RL	< RL	3.3E-01	1.2E+00	5
DE-C	32	8	< RL	< RL	< RL	< RL	< RL	1.1E-01	1
DE-S	21	6	1.2E-01	< RL	< RL	< RL	< RL	1.3E-01	2
DE-E	31	5	< RL	< RL	< RL	< RL	< RL	< RL	2
DE	115	25	< RL	3.2E-01	< RL	< RL	1.3E-01	3.4E-01	5
DK									
EE	4	2	< RL			< RL	< RL	< RL	3
ES-N	18	6	< RL	< RL	< RL	< RL	< RL	< RL	4
ES-C	24	6	< RL	< RL	< RL	< RL	< RL	< RL	12
ES-S	14	4	< RL	< RL	< RL	< RL	< RL	< RL	11
ES-E	16	4	< RL	< RL	< RL	< RL	< RL	< RL	11
ES	72	20	< RL	< RL	< RL	< RL	< RL	< RL	8
FI-N	1	1				< RL	< RL	< RL	10
FI-S	2	2				< RL	< RL	< RL	10
FI	3	3				< RL	< RL	< RL	10
FR-NW									
FR-NE									
FR-SW									
FR-SE									
FR									
GB-EN	8	5	< RL	< RL	< RL		< RL	< RL	1
GB-WL	5	2	< RL	< RL	< RL	< RL	< RL	< RL	3
GB-SC	14	2	< RL	< RL	< RL	< RL	< RL	1.2E-01	3
GB-NI	5	2	< RL	< RL	< RL	< RL	< RL	< RL	3
GB	32	11	< RL	< RL	< RL	< RL	< RL	1.1E-01	6
GR	1	1		< RL			< RL	< RL	5
HR-A									
HR-C	5	1				< RL	< RL	< RL	11
HR	5	1				< RL	< RL	< RL	11
HU	12	5	< RL	< RL	< RL		< RL	1.0E-01	1
IE									
IT-N	5	1	< RL	< RL	< RL	< RL	< RL	< RL	1
IT-C									
IT-S									
IT	5	1	< RL	< RL	< RL	< RL	< RL	< RL	1
LT	11	1	< RL	< RL	< RL	< RL	< RL	< RL	4
LU									
LV	2	1	< RL	< RL			< RL	< RL	3
MT	12	10	< RL	< RL	< RL	< RL	< RL	< RL	2
NL							Δ		
PL-N									
PL-S									
PL									
PT	9	1	< RL	1.1E-01	< RL	< RL	< RL	1.8E-01	5
RO-N									
RO-S	2	1	< RL				< RL	< RL	1
RO	2	1	< RL				< RL	< RL	1
SE-N	2	1			< RL	1.2E-01	< RL	1.2E-01	10
SE-S	4	2		< RL	< RL	1.3E-01	< RL	1.3E-01	10
SE	6	3		< RL	< RL	1.3E-01	< RL	1.3E-01	10
SI	5	5	< RL				< RL	< RL	3
SK	8	2	< RL	< RL	< RL	< RL	< RL	< RL	4

RL: reporting level for ^{90}Sr In mixed diet, i.e. 1.0 E-01 BQ/D.P (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
L: Number of sampling locations considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

DENSE

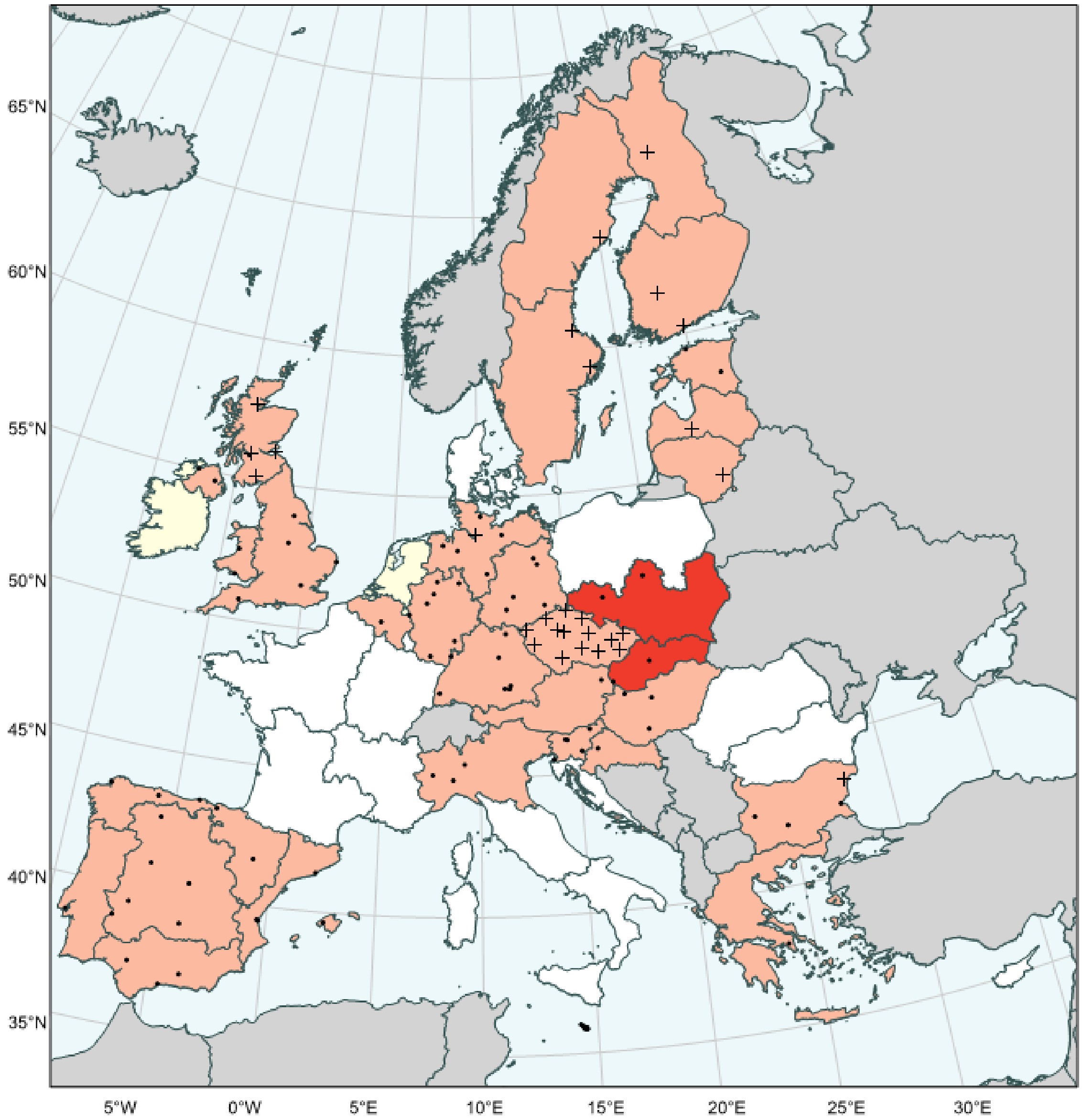
Fig. D2: Geographical and time averages

YEAR	:	2016
SAMPLE TYPE	:	mixed diet (Bq d^{-1} p^{-1})
NUCLIDE CATEGORY	:	strontium-90 (^{90}Sr)

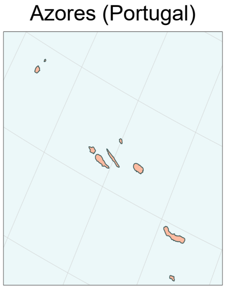
EU (no relevant data reported)	annual avg. < 0.1 Bq d^{-1} p^{-1}
EU (only relevant constraint values above the reporting level reported)	0.1 Bq d^{-1} p^{-1} <= annual avg. < 0.3 Bq d^{-1} p^{-1}
	0.3 Bq d^{-1} p^{-1} <= annual avg. < 1 Bq d^{-1} p^{-1}
Outside EU (in 2016)	1 Bq d^{-1} p^{-1} <= annual avg.

. sample location (Coordinate Accuracy = Precise or Not Specified)

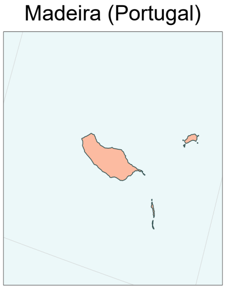
+ regional average (Coordinate Accuracy = Reference Point of Region)



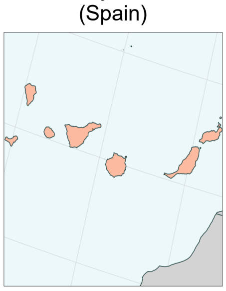
Azores (Portugal)



Madeira (Portugal)



Canary Islands (Spain)



Malta

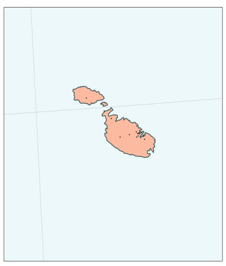


Table D2: Geographical and time averages

DENSE

YEAR : 2016
SAMPLE TYPE : mixed diet (Bq d^{-1} p^{-1})
NUCLIDE CATEGORY : strontium-90 (^{90}Sr)

Country	N	L	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual average	Monthly max	M
AT	5	1	< RL	< RL	< RL	< RL	< RL	< RL	7
BE	3	1	< RL		< RL		< RL	1.0E-01	7
BG	14	4	< RL	< RL	< RL	< RL	< RL	< RL	6
CY									
CZ	20	14	< RL	< RL	< RL	< RL	< RL	< RL	11
DE-N	31	6	< RL	< RL	< RL	< RL	< RL	1.0E-01	6
DE-C	31	8	< RL	< RL	< RL	< RL	< RL	< RL	5
DE-S	18	6	< RL	< RL	< RL	< RL	< RL	1.7E-01	3
DE-E	32	5	< RL	< RL	< RL	< RL	< RL	1.3E-01	8
DE	112	25	< RL	< RL	< RL	< RL	< RL	< RL	3
DK									
EE	4	2	< RL			< RL	< RL	< RL	2
ES-N	20	5	< RL	< RL	< RL	< RL	< RL	< RL	4
ES-C	25	7	< RL	< RL	< RL	< RL	< RL	1.2E-01	4
ES-S	16	4	< RL	< RL	< RL	< RL	< RL	< RL	10
ES-E	16	4	< RL	< RL	< RL	< RL	< RL	< RL	1
ES	77	20	< RL	< RL	< RL	< RL	< RL	< RL	4
FI-N	1	1				< RL	< RL	< RL	10
FI-S	2	2				< RL	< RL	< RL	10
FI	3	3				< RL	< RL	< RL	10
FR-NW									
FR-NE									
FR-SW									
FR-SE									
FR									
GB-EN	8	5	< RL		< RL	< RL	< RL	< RL	9
GB-WL	5	2	< RL	< RL	< RL	< RL	< RL	< RL	4
GB-SC	28	5	< RL	< RL	< RL	< RL	< RL	< RL	6
GB-NI	5	2	< RL	< RL	< RL	< RL	< RL	< RL	3
GB	46	14	< RL	< RL	< RL	< RL	< RL	< RL	6
GR	1	1		< RL			< RL	< RL	5
HR-A									
HR-C	5	1				< RL	< RL	< RL	11
HR	5	1				< RL	< RL	< RL	11
HU	8	3	< RL		< RL		< RL	< RL	3
IE							Δ		
IT-N	7	3	< RL	< RL	< RL	< RL	< RL	< RL	7
IT-C									
IT-S									
IT	7	3	< RL	< RL	< RL	< RL	< RL	< RL	7
LT	12	1	< RL	< RL	< RL	< RL	< RL	< RL	1
LU									
LV	1	1	< RL				< RL	< RL	3
MT	13	12	1.1E-01	< RL	< RL	< RL	< RL	1.2E-01	2
NL							Δ		
PL-N									
PL-S	2	2				2.4E-01	2.4E-01	2.4E-01	12
PL	2	2				2.4E-01	2.4E-01	2.4E-01	12
PT	11	1	< RL	< RL	< RL	< RL	< RL	< RL	2
RO-N									
RO-S									
RO									
SE-N	2	1		< RL		< RL	< RL	< RL	5
SE-S	4	2		< RL		< RL	< RL	< RL	5
SE	6	3		< RL		< RL	< RL	< RL	5
SI	5	5	< RL	< RL			< RL	< RL	4
SK	7	2	< RL	3.6E-01	< RL		1.6E-01	6.8E-01	5

RL: reporting level for ^{90}Sr In mixed diet, i.e. 1.0 E-01 BQ/D.P (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
L: Number of sampling locations considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

DENSE

Fig. D3: Geographical and time averages

YEAR	:	2017
SAMPLE TYPE	:	mixed diet (Bq d^{-1} p^{-1})
NUCLIDE CATEGORY	:	strontium-90 (^{90}Sr)

EU (no relevant data reported)

EU (only relevant constraint values above the reporting level reported)

Outside EU (in 2017)

annual avg. < 0.1 Bq d^{-1} p^{-1}

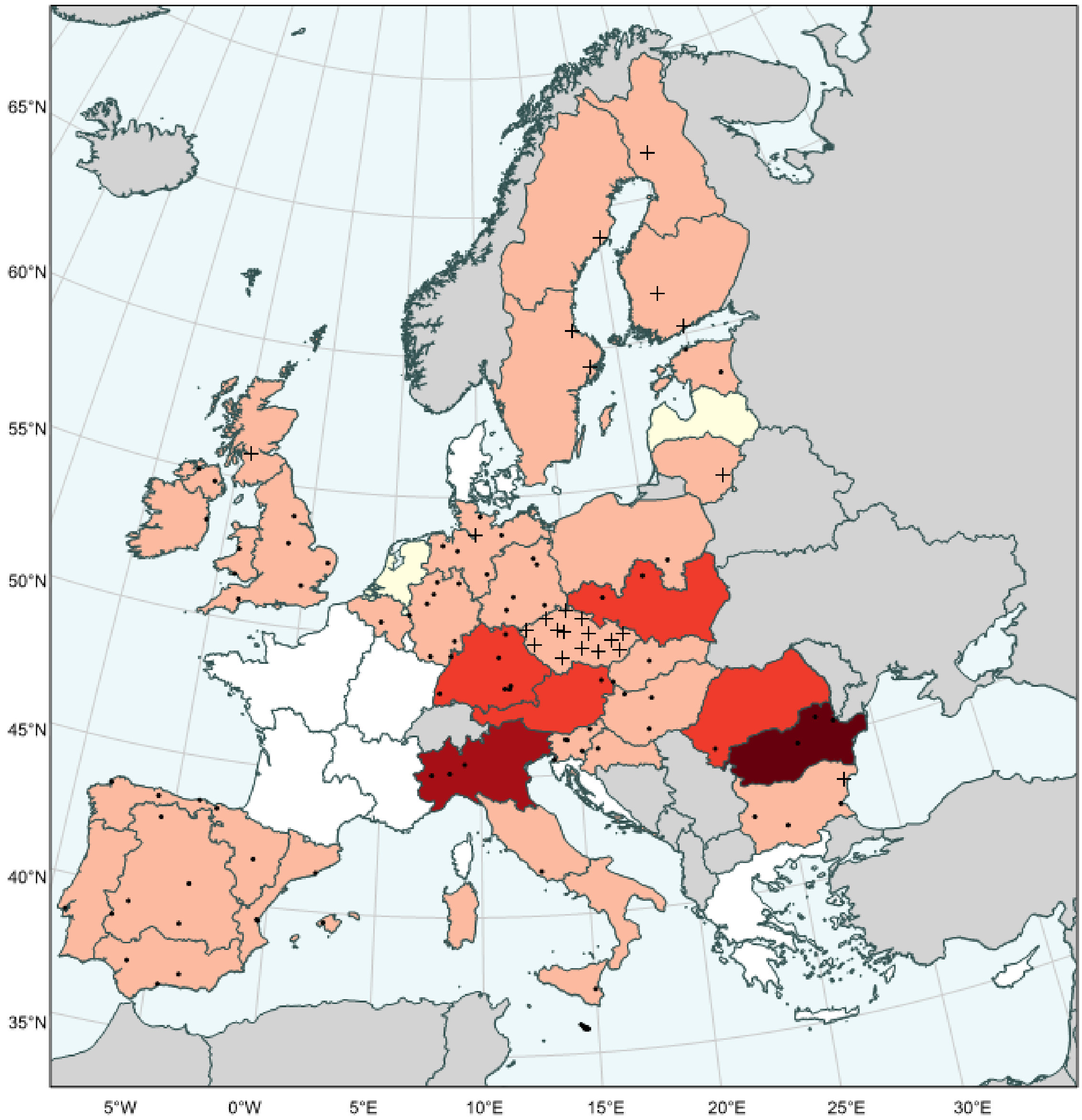
0.1 Bq d^{-1} p^{-1} <= annual avg. < 0.3 Bq d^{-1} p^{-1}

0.3 Bq d^{-1} p^{-1} <= annual avg. < 1 Bq d^{-1} p^{-1}

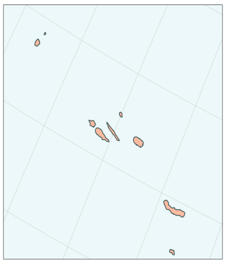
1 Bq d^{-1} p^{-1} <= annual avg.

. sample location (Coordinate Accuracy = Precise or Not Specified)

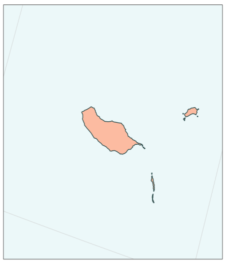
\+ regional average (Coordinate Accuracy = Reference Point of Region)



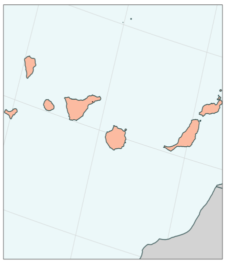
Azores (Portugal)



Madeira (Portugal)



Canary Islands (Spain)



Malta

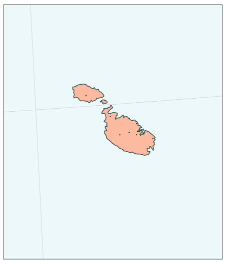


Table D3: Geographical and time averages

YEAR : 2017
SAMPLE TYPE : mixed diet (Bq d^{-1} p^{-1})
NUCLIDE CATEGORY : strontium-90 (^{90}Sr)

DENSE

Country	N	L	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual average	Monthly max	M
AT	5	1	1.3E-01	< RL	< RL	< RL	1.0E-01	1.4E-01	1
BE	1	1	< RL				< RL	< RL	1
BG	16	4	< RL	< RL	< RL	< RL	< RL	< RL	1
CY									
CZ	20	14	< RL	< RL	< RL	< RL	< RL	< RL	10
DE-N	29	6	< RL	< RL	< RL	< RL	< RL	1.3E-01	4
DE-C	30	8	< RL	< RL	< RL	< RL	< RL	< RL	11
DE-S	19	6	2.7E-01	< RL	< RL	< RL	1.1E-01	6.5E-01	3
DE-E	32	5	< RL	< RL	< RL	< RL	< RL	< RL	8
DE	110	25	1.0E-01	< RL	< RL	< RL	< RL	1.9E-01	3
DK									
EE	4	2	< RL			< RL	< RL	< RL	2
ES-N	19	5	< RL	< RL	< RL	< RL	< RL	< RL	2
ES-C	24	6	< RL	< RL	< RL	< RL	< RL	< RL	5
ES-S	16	4	< RL	< RL	< RL	< RL	< RL	1.3E-01	10
ES-E	16	4	< RL	< RL	< RL	< RL	< RL	1.6E-01	4
ES	75	19	< RL	< RL	< RL	< RL	< RL	< RL	10
FI-N	1	1				< RL	< RL	< RL	10
FI-S	2	2				< RL	< RL	1.0E-01	11
FI	3	3				< RL	< RL	1.0E-01	11
FR-NW									
FR-NE									
FR-SW									
FR-SE									
FR									
GB-EN	8	5	< RL	< RL	< RL		< RL	< RL	4
GB-WL	5	2	< RL	< RL	< RL	< RL	< RL	< RL	2
GB-SC	12	1	< RL	< RL	< RL	< RL	< RL	< RL	1
GB-NI	5	2	< RL	< RL		< RL	< RL	< RL	12
GB	30	10	< RL	< RL	< RL	< RL	< RL	< RL	1
GR									
HR-A									
HR-C	5	1				< RL	< RL	< RL	11
HR	5	1				< RL	< RL	< RL	11
HU	8	3	< RL		< RL		< RL	< RL	3
IE	1	1				< RL	< RL	< RL	11
IT-N	4	3	< RL	1.3E+00	< RL	< RL	3.6E-01	1.3E+00	5
IT-C	1	1		< RL	< RL		< RL	< RL	6
IT-S	1	1	< RL	< RL			< RL	< RL	3
IT	6	5	< RL	2.6E-01	< RL	< RL	1.1E-01	6.7E-01	5
LT	12	1	< RL	< RL	< RL	< RL	< RL	< RL	9
LU									
LV							Δ		
MT	13	10	< RL	< RL	< RL	< RL	< RL	1.0E-01	3
NL							Δ		
PL-N	1	1				< RL	< RL	< RL	12
PL-S	2	2	2.4E-01	2.4E-01	2.4E-01	2.4E-01	2.4E-01	2.4E-01	12
PL	3	3	2.4E-01	2.4E-01	2.4E-01	2.1E-01	2.3E-01	2.4E-01	1
PT	6	1	< RL	< RL		< RL	< RL	1.0E-01	11
RO-N	1	1	2.9E-01	2.9E-01	2.9E-01	2.9E-01	2.9E-01	2.9E-01	3
RO-S	7	3	< RL	1.3E-01	< RL	3.9E+00	1.0E+00	3.9E+00	10
RO	8	4	1.0E-01	2.6E-01	2.1E-01	8.8E-01	3.6E-01	2.1E+00	10
SE-N	2	1		< RL		< RL	< RL	< RL	5
SE-S	4	2		< RL		< RL	< RL	< RL	10
SE	6	3		< RL		< RL	< RL	< RL	5
SI	5	5	< RL	< RL			< RL	< RL	4
SK	8	2	< RL	< RL	< RL	< RL	< RL	< RL	4

RL: reporting level for ^{90}Sr In mixed diet, i.e. 1.0 E-01 BQ/D.P (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
L: Number of sampling locations considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

DENSE

Fig. D4: Geographical and time averages

YEAR : 2018

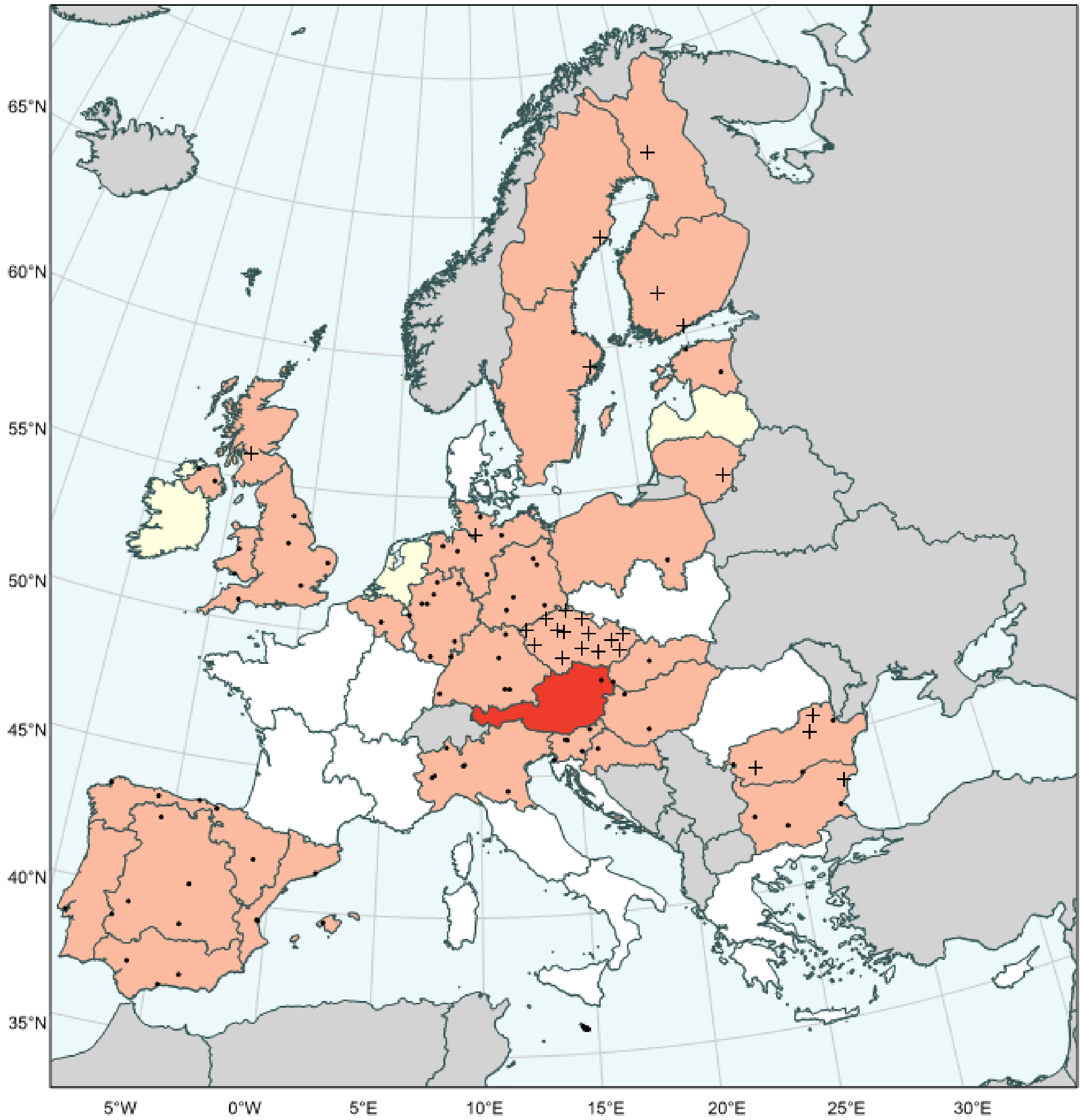
SAMPLE TYPE : mixed diet (Bq d^{-1} p^{-1})

NUCLIDE CATEGORY : strontium-90 (^{90}Sr)

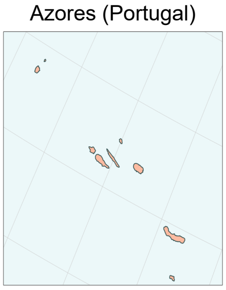
EU (no relevant data reported)	annual avg. < 0.1 Bq d^{-1} p^{-1}
EU (only relevant constraint values above the reporting level reported)	0.1 Bq d^{-1} p^{-1} <= annual avg. < 0.3 Bq d^{-1} p^{-1}
	0.3 Bq d^{-1} p^{-1} <= annual avg. < 1 Bq d^{-1} p^{-1}
Outside EU (in 2018)	1 Bq d^{-1} p^{-1} <= annual avg.

. sample location (Coordinate Accuracy = Precise or Not Specified)

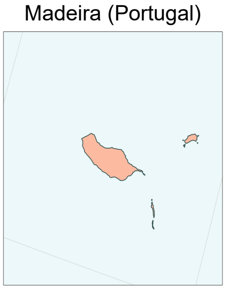
+ regional average (Coordinate Accuracy = Reference Point of Region)



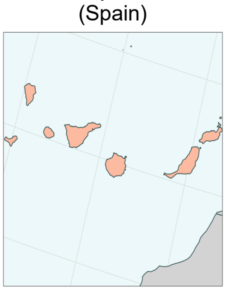
Azores (Portugal)



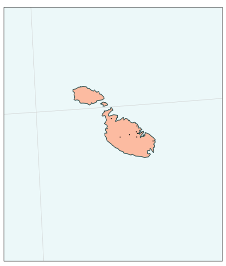
Madeira (Portugal)



Canary Islands (Spain)



Malta



DENSE

Table D4: Geographical and time averages

YEAR : 2018

SAMPLE TYPE : mixed diet (Bq d^{-1} p^{-1})

NUCLIDE CATEGORY : strontium-90 (^{90}Sr)

Country	N	L	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual average	Monthly max	M
AT	4	1	< RL	1.0E-01	1.2E-01	< RL	1.1E-01	1.2E-01	7
BE	3	1		< RL	< RL	< RL	< RL	< RL	4
BG	14	4	< RL	< RL	< RL	< RL	< RL	< RL	6
CY									
CZ	20	14	< RL	< RL	< RL	< RL	< RL	< RL	2
DE-N	31	6	< RL	< RL	< RL	< RL	< RL	< RL	12
DE-C	30	9	< RL	< RL	< RL	< RL	< RL	< RL	4
DE-S	17	5	< RL	< RL	< RL	< RL	< RL	< RL	4
DE-E	31	5	< RL	< RL	< RL	< RL	< RL	< RL	2
DE	109	25	< RL	< RL	< RL	< RL	< RL	< RL	4
DK									
EE	4	2	< RL			< RL	< RL	< RL	2
ES-N	20	5	< RL	< RL	< RL	< RL	< RL	< RL	4
ES-C	24	6	< RL	< RL	< RL	< RL	< RL	< RL	12
ES-S	16	4	< RL	< RL	< RL	< RL	< RL	< RL	1
ES-E	16	4	< RL	< RL	< RL	< RL	< RL	< RL	5
ES	76	19	< RL	< RL	< RL	< RL	< RL	< RL	1
FI-N	1	1				< RL	< RL	< RL	10
FI-S	2	2				< RL	< RL	< RL	10
FI	3	3				< RL	< RL	< RL	10
FR-NW									
FR-NE									
FR-SW									
FR-SE									
FR									
GB-EN	8	5	< RL	< RL	< RL	< RL	< RL	< RL	3
GB-WL	5	2	< RL	< RL		< RL	< RL	< RL	1
GB-SC	12	1	< RL	< RL	< RL	< RL	< RL	< RL	8
GB-NI	5	2		< RL		< RL	< RL	< RL	11
GB	30	10	< RL	< RL	< RL	< RL	< RL	< RL	8
GR									
HR-A									
HR-C	5	1				< RL	< RL	< RL	11
HR	5	1				< RL	< RL	< RL	11
HU	6	2	< RL		< RL		< RL	< RL	9
IE							Δ		
IT-N	8	6	< RL	< RL	< RL	< RL	< RL	< RL	10
IT-C									
IT-S									
IT	8	6	< RL	< RL	< RL	< RL	< RL	< RL	10
LT	12	1	< RL	< RL	< RL	< RL	< RL	< RL	3
LU									
LV							Δ		
MT	11	10	< RL	< RL	< RL	< RL	< RL	1.1E-01	9
NL							Δ		
PL-N	1	1	< RL	< RL	< RL	< RL	< RL	< RL	1
PL-S									
PL	1	1	< RL	< RL	< RL	< RL	< RL	< RL	1
PT	11	1	< RL	< RL	< RL	< RL	< RL	1.3E-01	5
RO-N									
RO-S	14	6	< RL	< RL	< RL		< RL	< RL	9
RO	14	6	< RL	< RL	< RL		< RL	< RL	9
SE-N	2	1		< RL		< RL	< RL	< RL	5
SE-S	4	2		< RL		< RL	< RL	< RL	10
SE	6	3		< RL		< RL	< RL	< RL	10
SI	5	5	< RL	< RL			< RL	< RL	4
SK	8	2	< RL	< RL	< RL	< RL	< RL	1.1E-01	2

RL: reporting level for ^{90}Sr In mixed diet, i.e. 1.0 E-01 BQ/D.P (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
L: Number of sampling locations considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

DENSE

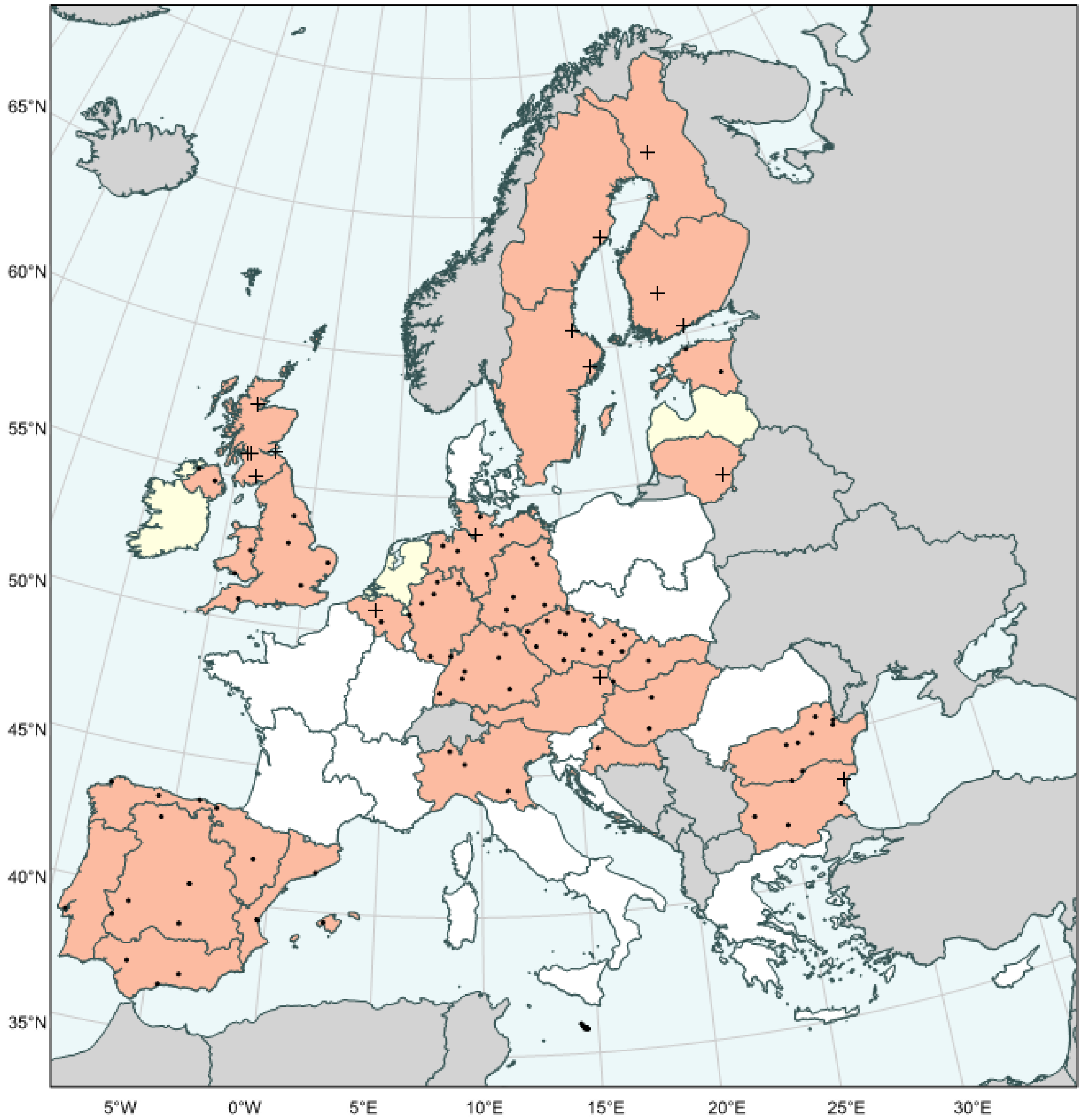
Fig. D5: Geographical and time averages

YEAR	:	2019
SAMPLE TYPE	:	mixed diet (Bq d^{-1} p^{-1})
NUCLIDE CATEGORY	:	strontium-90 (^{90}Sr)

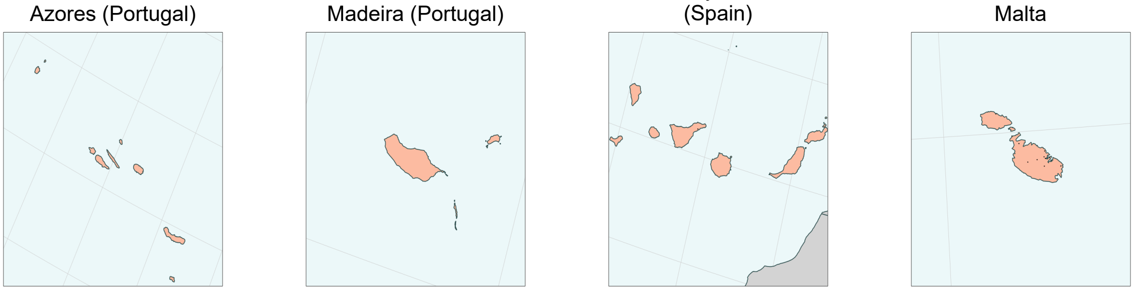
EU (no relevant data reported)	annual avg. < 0.1 Bq d^{-1} p^{-1}
EU (only relevant constraint values above the reporting level reported)	0.1 Bq d^{-1} p^{-1} <= annual avg. < 0.3 Bq d^{-1} p^{-1}
	0.3 Bq d^{-1} p^{-1} <= annual avg. < 1 Bq d^{-1} p^{-1}
Outside EU (in 2019)	1 Bq d^{-1} p^{-1} <= annual avg.

. sample location (Coordinate Accuracy = Precise or Not Specified)

\+ regional average (Coordinate Accuracy = Reference Point of Region)



Azores (Portugal) Madeira (Portugal) Canary Islands (Spain) Malta



DENSE

Table D5: Geographical and time averages

YEAR	:	2019
SAMPLE TYPE	:	mixed diet (Bq d^{-1} p^{-1})
NUCLIDE CATEGORY	:	strontium-90 (^{90}Sr)

Country	N	L	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual average	Monthly max	M
AT	4	1	< RL	1.2E-01	< RL	< RL	< RL	1.2E-01	4
BE	2	2	< RL	< RL			< RL	< RL	1
BG	14	4	< RL	< RL	< RL	< RL	< RL	< RL	12
CY									
CZ	21	14	< RL	< RL	< RL	< RL	< RL	< RL	1
DE-N	29	6	< RL	< RL	< RL	< RL	< RL	< RL	12
DE-C	29	7	< RL	< RL	< RL	< RL	< RL	< RL	8
DE-S	21	6	< RL	< RL	< RL	< RL	< RL	< RL	3
DE-E	25	5	< RL	< RL	< RL	< RL	< RL	1.2E-01	4
DE	104	24	< RL	< RL	< RL	< RL	< RL	< RL	4
DK									
EE	4	2	< RL			< RL	< RL	< RL	2
ES-N	20	5	< RL	< RL	< RL	< RL	< RL	< RL	11
ES-C	23	6	< RL	< RL	< RL	< RL	< RL	< RL	6
ES-S	16	4	< RL	< RL	< RL	< RL	< RL	< RL	9
ES-E	16	4	< RL	< RL	< RL	< RL	< RL	< RL	10
ES	75	19	< RL	< RL	< RL	< RL	< RL	< RL	6
FI-N	1	1				< RL	< RL	< RL	10
FI-S	2	2				< RL	< RL	< RL	10
FI	3	3				< RL	< RL	< RL	10
FR-NW									
FR-NE									
FR-SW									
FR-SE									
FR									
GB-EN	8	5	< RL	< RL	< RL	< RL	< RL	< RL	3
GB-WL	5	2	< RL	< RL	< RL		< RL	< RL	5
GB-SC	28	5	< RL	< RL	< RL	< RL	< RL	1.3E-01	5
GB-NI	5	2	< RL	< RL	< RL		< RL	< RL	8
GB	46	14	< RL	< RL	< RL	< RL	< RL	< RL	5
GR									
HR-A									
HR-C	5	1				< RL	< RL	< RL	11
HR	5	1				< RL	< RL	< RL	11
HU	6	2	< RL	< RL	< RL	< RL	< RL	< RL	4
IE							Δ		
IT-N	5	3	< RL	< RL		< RL	< RL	< RL	5
IT-C									
IT-S									
IT	5	3	< RL	< RL		< RL	< RL	< RL	5
LT	12	1	< RL	< RL	< RL	< RL	< RL	< RL	12
LU									
LV							Δ		
MT	12	11	< RL	< RL	< RL	< RL	< RL	1.0E-01	2
NL							Δ		
PL-N									
PL-S									
PL									
PT	11	1	< RL	< RL	< RL	< RL	< RL	< RL	10
RO-N									
RO-S	13	8	< RL	< RL	< RL	< RL	< RL	< RL	3
RO	13	8	< RL	< RL	< RL	< RL	< RL	< RL	3
SE-N	2	1		< RL		< RL	< RL	< RL	10
SE-S	3	2		< RL		< RL	< RL	< RL	10
SE	5	3		< RL		< RL	< RL	< RL	10
SI									
SK	7	2	1.8E-01	< RL	1.0E-01	< RL	< RL	3.2E-01	3

RL: reporting level for ^{90}Sr In mixed diet, i.e. 1.0 E-01 BQ/D.P (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
L: Number of sampling locations considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

DENSE

Fig. D6: Geographical and time averages

YEAR	:	2020
SAMPLE TYPE	:	mixed diet (Bq d^{-1} p^{-1})
NUCLIDE CATEGORY	:	strontium-90 (^{90}Sr)

EU (no relevant data reported)	annual avg. < 0.1 Bq d^{-1} p^{-1}
EU (only relevant constraint values above the reporting level reported)	0.1 Bq d^{-1} p^{-1} <= annual avg. < 0.3 Bq d^{-1} p^{-1}
	0.3 Bq d^{-1} p^{-1} <= annual avg. < 1 Bq d^{-1} p^{-1}
Outside EU (in 2020)	1 Bq d^{-1} p^{-1} <= annual avg.

. sample location (Coordinate Accuracy = Precise or Not Specified)

\+ regional average (Coordinate Accuracy = Reference Point of Region)

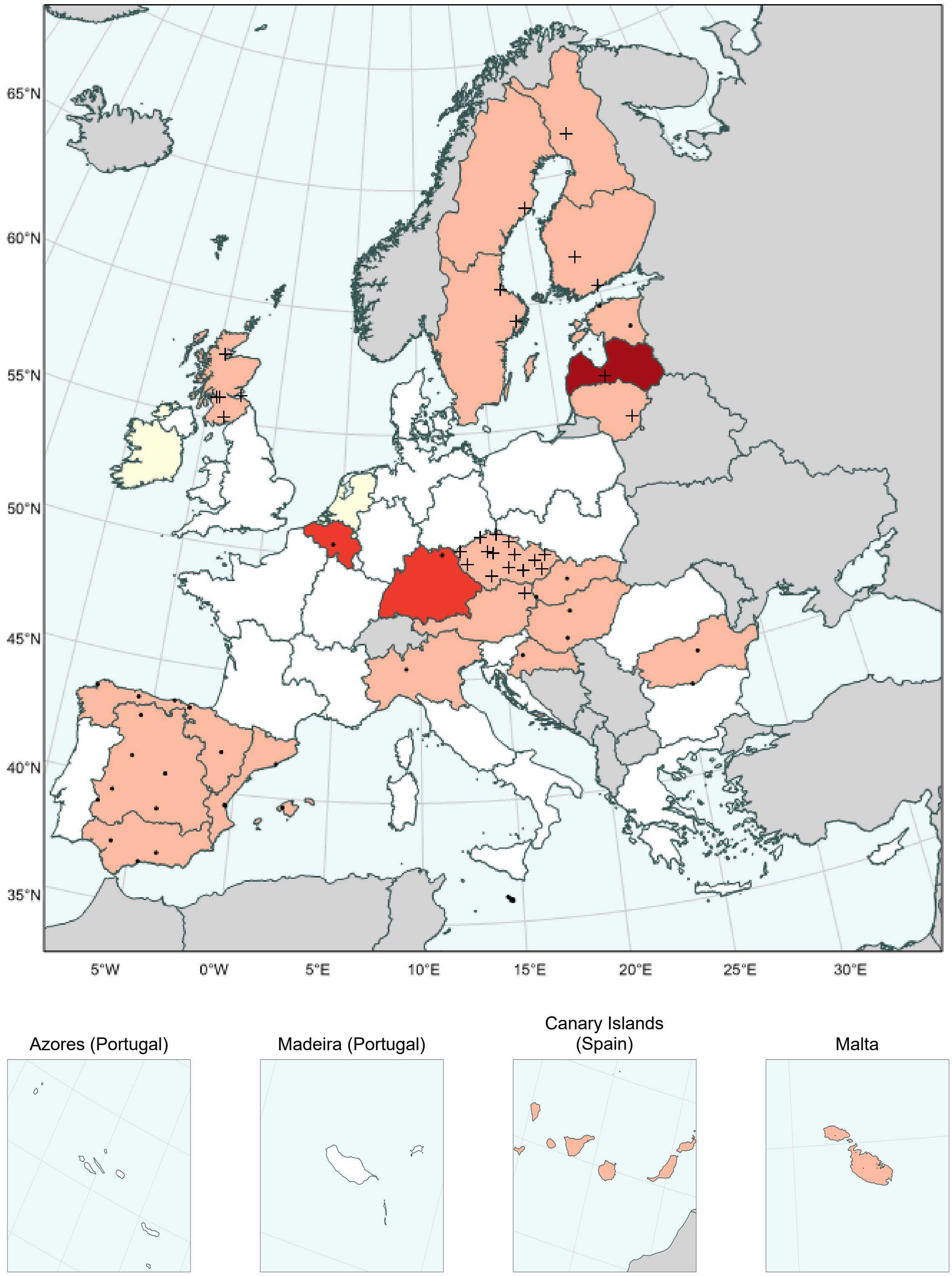


Table D6: Geographical and time averages

YEAR : 2020
SAMPLE TYPE : mixed diet (Bq d^{-1} p^{-1})
NUCLIDE CATEGORY : strontium-90 (^{90}Sr)

Country	N	L	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual average	Monthly max	M
AT	4	1	< RL	< RL	< RL	< RL	< RL	< RL	1
BE	1	1	2.7E-01				2.7E-01	2.7E-01	1
BG									
CY									
CZ	20	14	< RL	< RL	< RL	< RL	< RL	1.0E-01	2
DE-N									
DE-C									
DE-S	1	1	1.4E-01				1.4E-01	1.4E-01	1
DE-E									
DE	1	1	1.4E-01				1.4E-01	1.4E-01	1
DK									
EE	4	2	< RL			< RL	< RL	< RL	3
ES-N	18	5	< RL	< RL	< RL	< RL	< RL	< RL	6
ES-C	23	7	< RL	< RL	< RL	< RL	< RL	< RL	5
ES-S	16	4	< RL	< RL	< RL	< RL	< RL	< RL	10
ES-E	16	4	< RL	< RL	< RL	< RL	< RL	< RL	9
ES	73	20	< RL	< RL	< RL	< RL	< RL	< RL	5
FI-N	1	1				< RL	< RL	< RL	11
FI-S	2	2				< RL	< RL	< RL	10
FI	3	3				< RL	< RL	< RL	10
FR-NW									
FR-NE									
FR-SW									
FR-SE									
FR									
GB-EN									
GB-WL									
GB-SC	23	5	< RL	< RL	< RL	< RL	< RL	1.0E-01	6
GB-NI									
GB	23	5	< RL	< RL	< RL	< RL	< RL	1.0E-01	6
GR									
HR-A									
HR-C	5	1				< RL	< RL	< RL	12
HR	5	1				< RL	< RL	< RL	12
HU	6	2		< RL	< RL		< RL	< RL	4
IE							Δ		
IT-N	3	1	< RL		< RL	< RL	< RL	< RL	1
IT-C									
IT-S									
IT	3	1	< RL		< RL	< RL	< RL	< RL	1
LT	8	1	< RL	< RL	< RL	< RL	< RL	< RL	1
LU									
LV	1	1	6.3E-01				6.3E-01	6.3E-01	3
MT	7	7	< RL		< RL	< RL	< RL	< RL	1
NL							Δ		
PL-N									
PL-S									
PL									
PT									
RO-N									
RO-S	2	2	< RL	< RL	< RL		< RL	< RL	5
RO	2	2	< RL	< RL	< RL		< RL	< RL	5
SE-N	2	1		< RL		< RL	< RL	< RL	11
SE-S	4	2		< RL		< RL	< RL	1.3E-01	5
SE	6	3		< RL		< RL	< RL	1.3E-01	5
SI									
SK	6	2	< RL	< RL		< RL	< RL	< RL	10

RL: reporting level for ^{90}Sr In mixed diet, i.e. 1.0 E-01 BQ/D.P (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
L: Number of sampling locations considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

DENSE

Fig. D7: Geographical and time averages

YEAR : 2015

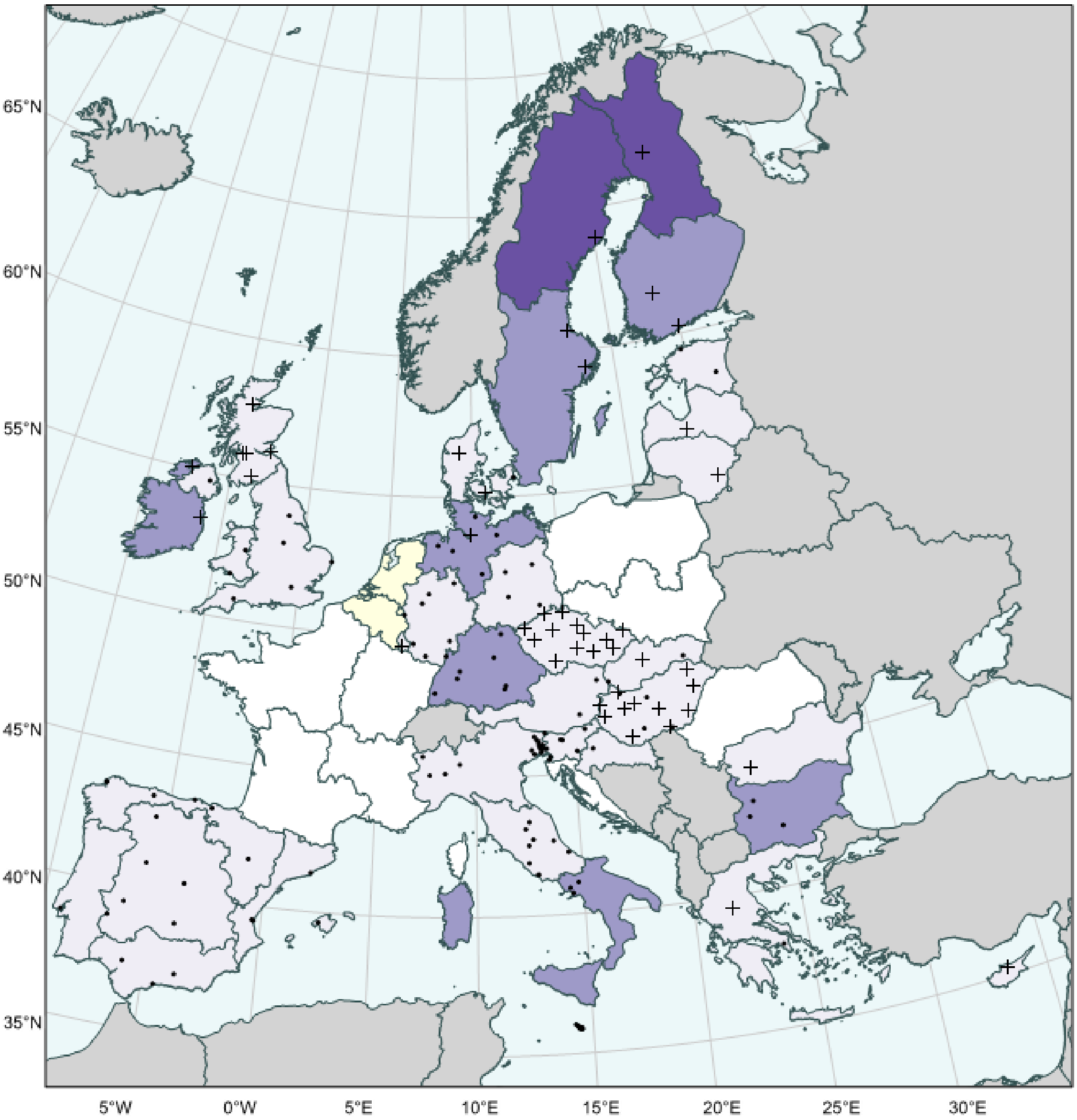
SAMPLE TYPE : mixed diet (Bq d^{-1} p^{-1})

NUCLIDE CATEGORY : caesium-137 (^{137}Cs)

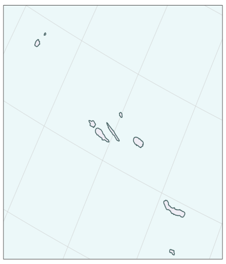
EU (no relevant data reported)			annual avg. < 0.2 Bq d^{-1} p^{-1}
EU (only relevant constraint values above the reporting level reported)		0.2 Bq d^{-1} p^{-1} <=	annual avg. < 0.6 Bq d^{-1} p^{-1}
		0.6 Bq d^{-1} p^{-1} <=	annual avg. < 2 Bq d^{-1} p^{-1}
Outside EU (in 2015)		2 Bq d^{-1} p^{-1} <=	annual avg.

. sample location (Coordinate Accuracy = Precise or Not Specified)

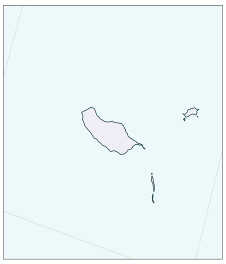
\+ regional average (Coordinate Accuracy = Reference Point of Region)



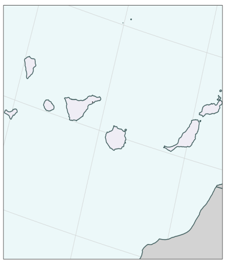
Azores (Portugal)



Madeira (Portugal)



Canary Islands (Spain)



Malta

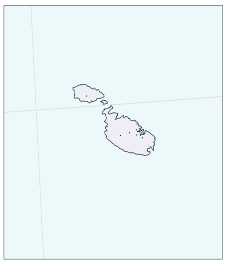


Table D7: Geographical and time averages

YEAR : **2015**

SAMPLE TYPE : **mixed diet (Bq d^{-1} p^{-1})**

NUCLIDE CATEGORY : **caesium-137 (^{137}Cs)**

Country	N	L	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual average	Monthly max	M
AT	26	2	< RL	< RL	< RL	< RL	< RL	< RL	8
BE							Δ		
BG	11	3	6.3E-01	< RL	2.4E-01	7.7E-01	4.5E-01	7.7E-01	10
CY	6	1				< RL	< RL	< RL	12
CZ	21	14	< RL	< RL	< RL	< RL	< RL	< RL	7
DE-N	119	6	< RL	2.4E-01	3.0E-01	2.1E-01	2.4E-01	5.0E-01	8
DE-C	125	8	< RL	< RL	< RL	< RL	< RL	< RL	6
DE-S	106	7	< RL	2.4E-01	2.8E-01	< RL	2.1E-01	3.9E-01	4
DE-E	84	4	< RL	< RL	< RL	< RL	< RL	2.3E-01	9
DE	434	25	< RL	2.0E-01	2.1E-01	< RL	< RL	2.5E-01	4
DK	3	3		< RL			< RL	< RL	4
EE	4	2	< RL			< RL	< RL	< RL	10
ES-N	21	6	< RL	< RL	< RL	< RL	< RL	< RL	6
ES-C	26	7	< RL	< RL	< RL	< RL	< RL	< RL	6
ES-S	16	4	< RL	< RL	< RL	< RL	< RL	< RL	10
ES-E	16	4	< RL	< RL	< RL	< RL	< RL	< RL	4
ES	79	21	< RL	< RL	< RL	< RL	< RL	< RL	6
FI-N	7	1				7.0E-01	7.0E-01	7.0E-01	10
FI-S	14	2				5.1E-01	5.1E-01	5.1E-01	10
FI	21	3				5.7E-01	5.7E-01	5.7E-01	10
FR-NW									
FR-NE									
FR-SW									
FR-SE									
FR									
GB-EN	8	5	< RL	< RL	< RL		< RL	< RL	4
GB-WL	5	2	< RL	< RL	< RL	< RL	< RL	< RL	2
GB-SC	28	5	< RL	< RL	< RL	< RL	< RL	< RL	2
GB-NI	5	2	< RL	< RL	< RL	< RL	< RL	< RL	11
GB	46	14	< RL	< RL	< RL	< RL	< RL	< RL	2
GR	18	2	< RL	< RL	< RL	< RL	< RL	< RL	7
HR-A									
HR-C	5	1				< RL	< RL	< RL	11
HR	5	1				< RL	< RL	< RL	11
HU	27	15	< RL	< RL	< RL	< RL	< RL	< RL	6
IE	3	1	2.7E-01			3.5E-01	3.1E-01	5.1E-01	12
IT-N	42	20	< RL	< RL	< RL	< RL	< RL	< RL	9
IT-C	11	9	< RL	< RL	< RL	< RL	< RL	< RL	8
IT-S	3	3			9.0E-01	2.7E-01	5.9E-01	9.0E-01	9
IT	56	32	< RL	< RL	2.1E-01	< RL	< RL	3.6E-01	9
LT	12	1	< RL	< RL	< RL	< RL	< RL	< RL	9
LU	12	1	< RL	< RL	< RL	< RL	< RL	< RL	11
LV	3	1	< RL	< RL		< RL	< RL	< RL	11
MT	12	10	< RL	< RL	< RL	< RL	< RL	2.8E-01	12
NL							Δ		
PL-N									
PL-S									
PL									
PT	10	1	< RL	< RL	< RL	< RL	< RL	< RL	2
RO-N									
RO-S	2	1	< RL				< RL	< RL	1
RO	2	1	< RL				< RL	< RL	1
SE-N	3	1			2.8E-01	2.1E+00	1.2E+00	2.7E+00	11
SE-S	4	2		< RL	< RL	4.5E-01	2.6E-01	4.5E-01	10
SE	7	3		< RL	2.1E-01	2.0E+00	8.0E-01	2.7E+00	11
SI	5	5	< RL				< RL	< RL	3
SK	12	3	< RL	< RL	3.7E-01	< RL	< RL	7.2E-01	7

RL: reporting level for ^{137}Cs In mixed diet, i.e. 2.0 E-01 BQ/D.P (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
L: Number of sampling locations considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

DENSE

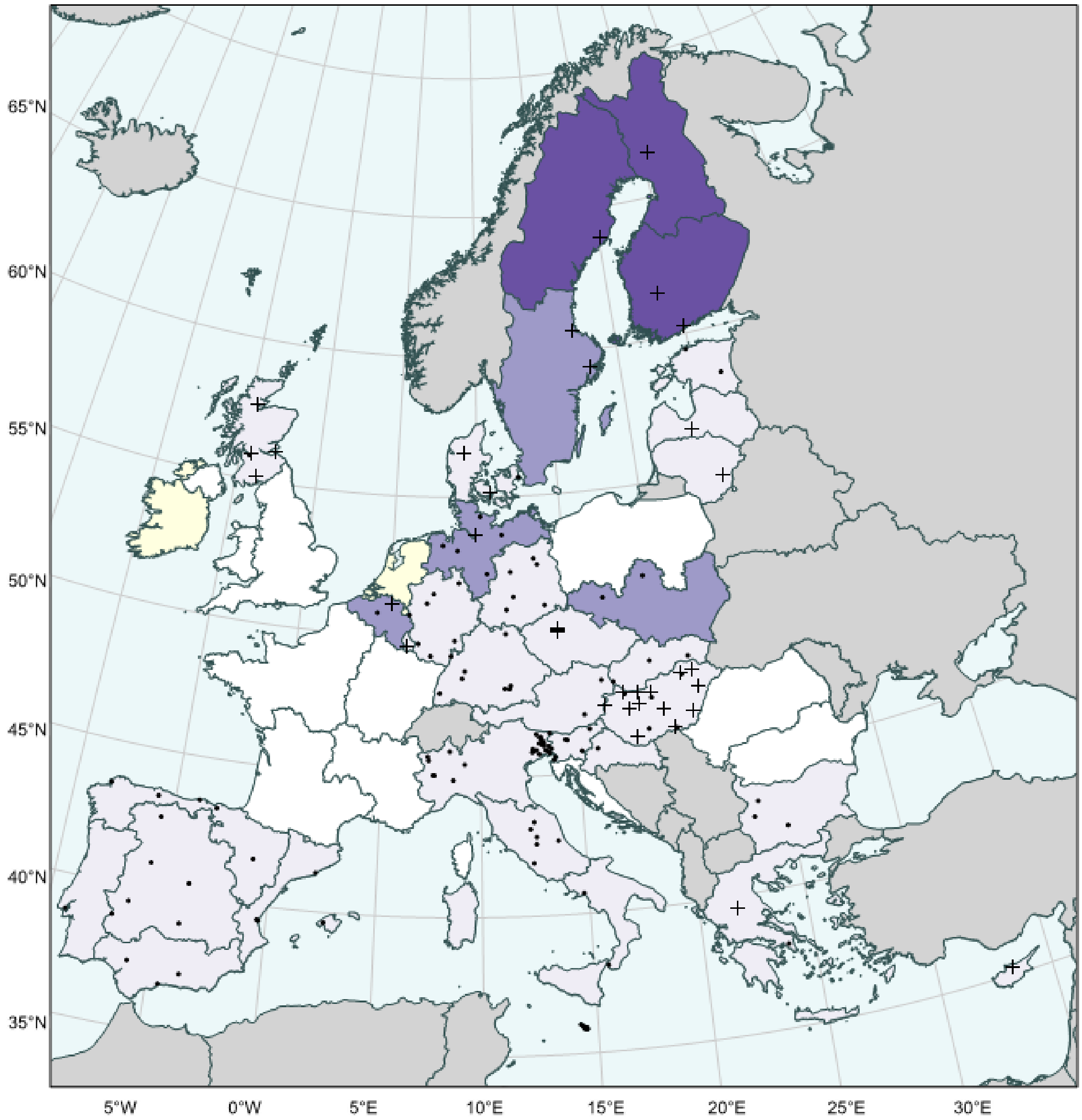
Fig. D8: Geographical and time averages

YEAR	:	2016
SAMPLE TYPE	:	mixed diet (Bq d^{-1} p^{-1})
NUCLIDE CATEGORY	:	caesium-137 (^{137}Cs)

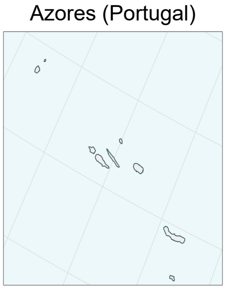
EU (no relevant data reported)	annual avg. < 0.2 Bq d^{-1} p^{-1}
EU (only relevant constraint values above the reporting level reported)	0.2 Bq d^{-1} p^{-1} <= annual avg. < 0.6 Bq d^{-1} p^{-1}
	0.6 Bq d^{-1} p^{-1} <= annual avg. < 2 Bq d^{-1} p^{-1}
Outside EU (in 2016)	2 Bq d^{-1} p^{-1} <= annual avg.

. sample location (Coordinate Accuracy = Precise or Not Specified)

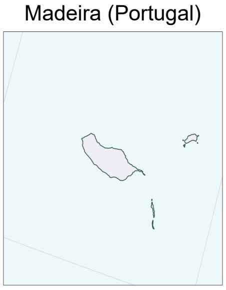
+ regional average (Coordinate Accuracy = Reference Point of Region)



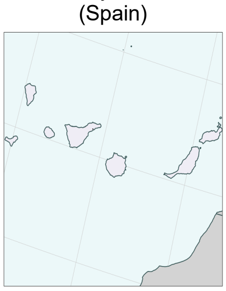
Azores (Portugal)



Madeira (Portugal)



Canary Islands (Spain)



Malta

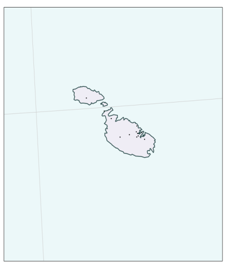


Table D8: Geographical and time averages

YEAR : **2016**

SAMPLE TYPE : **mixed diet (Bq d^{-1} p^{-1})**

NUCLIDE CATEGORY : **caesium-137 (^{137}Cs)**

Country	N	L	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual average	Monthly max	M
AT	23	2	< RL	< RL	< RL	< RL	< RL	< RL	5
BE	7	2	< RL	< RL		3.1E-01	2.0E-01	4.6E-01	10
BG	10	3	< RL	2.0E-01	< RL	2.3E-01	< RL	4.1E-01	11
CY	22	1		< RL		< RL	< RL	< RL	11
CZ	3	3		2.3E-01		< RL	< RL	2.3E-01	6
DE-N	118	6	< RL	3.3E-01	2.2E-01	2.1E-01	2.3E-01	4.6E-01	4
DE-C	149	8	3.6E-01	< RL	< RL	< RL	< RL	4.8E-01	1
DE-S	90	7	< RL	< RL	< RL	2.2E-01	< RL	3.5E-01	12
DE-E	77	6	< RL	2.2E-01	< RL	< RL	< RL	4.2E-01	4
DE	434	27	2.3E-01	< RL	< RL	< RL	< RL	2.5E-01	1
DK	3	3		< RL			< RL	< RL	5
EE	4	2	< RL			< RL	< RL	< RL	2
ES-N	20	5	< RL	< RL	< RL	< RL	< RL	< RL	2
ES-C	27	7	< RL	< RL	< RL	< RL	< RL	< RL	3
ES-S	16	4	< RL	< RL	< RL	< RL	< RL	< RL	1
ES-E	16	4	< RL	< RL	< RL	< RL	< RL	< RL	1
ES	79	20	< RL	< RL	< RL	< RL	< RL	< RL	12
FI-N	7	1				7.7E-01	7.7E-01	7.7E-01	10
FI-S	14	2				9.2E-01	9.2E-01	9.2E-01	10
FI	21	3				8.7E-01	8.7E-01	8.7E-01	10
FR-NW									
FR-NE									
FR-SW									
FR-SE									
FR									
GB-EN									
GB-WL									
GB-SC	28	5	< RL	< RL	< RL	< RL	< RL	< RL	12
GB-NI									
GB	28	5	< RL	< RL	< RL	< RL	< RL	< RL	12
GR	12	2	< RL	< RL	< RL	< RL	< RL	< RL	8
HR-A									
HR-C	5	1				< RL	< RL	< RL	12
HR	5	1				< RL	< RL	< RL	12
HU	30	18	< RL	< RL	< RL	< RL	< RL	< RL	6
IE							Δ		
IT-N	45	29	< RL	< RL	< RL	2.0E-01	< RL	3.6E-01	11
IT-C	7	6	< RL	< RL	< RL	< RL	< RL	< RL	5
IT-S	3	2		< RL		< RL	< RL	< RL	6
IT	55	37	< RL	< RL	< RL	2.0E-01	< RL	3.2E-01	11
LT	12	1	< RL	< RL	< RL	< RL	< RL	< RL	11
LU	12	1	< RL	< RL	< RL	< RL	< RL	< RL	3
LV	4	1	< RL	< RL	< RL	5.0E-01	< RL	9.0E-01	11
MT	13	12	< RL	< RL	2.0E-01	< RL	< RL	2.6E-01	10
NL							Δ		
PL-N									
PL-S	2	2				3.7E-01	3.7E-01	3.7E-01	12
PL	2	2				3.7E-01	3.7E-01	3.7E-01	12
PT	11	1	< RL	< RL	< RL	< RL	< RL	< RL	4
RO-N									
RO-S									
RO									
SE-N	3	1		< RL		1.4E+00	7.4E-01	2.0E+00	11
SE-S	4	2		< RL		2.8E-01	2.3E-01	2.8E-01	10
SE	7	3		< RL		1.4E+00	7.9E-01	2.0E+00	11
SI	5	5	< RL	< RL			< RL	< RL	3
SK	12	3	< RL	< RL	< RL	< RL	< RL	4.1E-01	5

RL: reporting level for ^{137}Cs In mixed diet, i.e. 2.0 E-01 BQ/D.P (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
L: Number of sampling locations considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

DENSE

Fig. D9: Geographical and time averages

YEAR	:	2017
SAMPLE TYPE	:	mixed diet (Bq d^{-1} p^{-1})
NUCLIDE CATEGORY	:	caesium-137 (^{137}Cs)

EU (no relevant data reported)

EU (only relevant constraint values above the reporting level reported)

Outside EU (in 2017)

annual avg. < 0.2 Bq d^{-1} p^{-1}

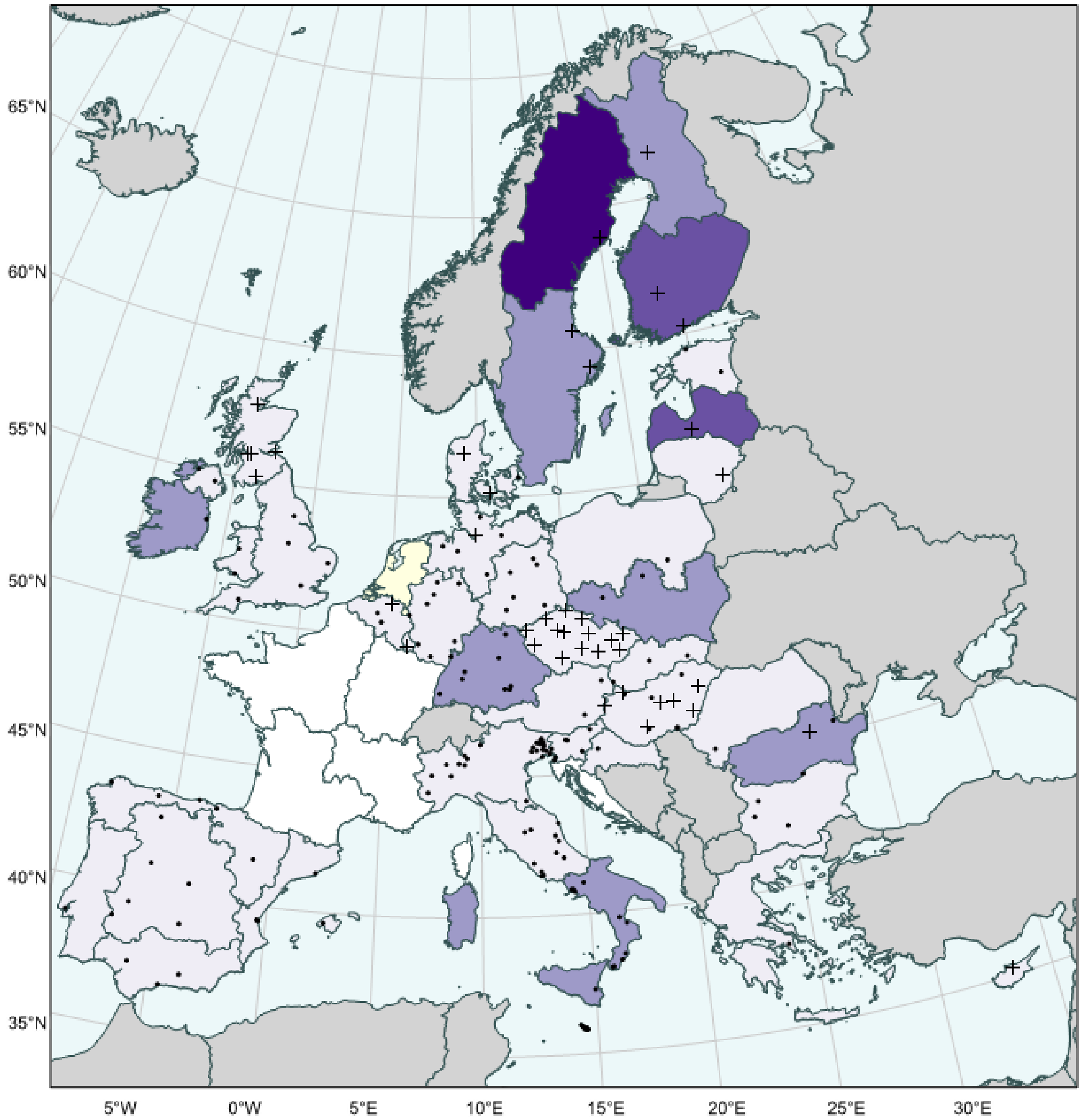
0.2 Bq d^{-1} p^{-1} <= annual avg. < 0.6 Bq d^{-1} p^{-1}

0.6 Bq d^{-1} p^{-1} <= annual avg. < 2 Bq d^{-1} p^{-1}

2 Bq d^{-1} p^{-1} <= annual avg.

. sample location (Coordinate Accuracy = Precise or Not Specified)

\+ regional average (Coordinate Accuracy = Reference Point of Region)



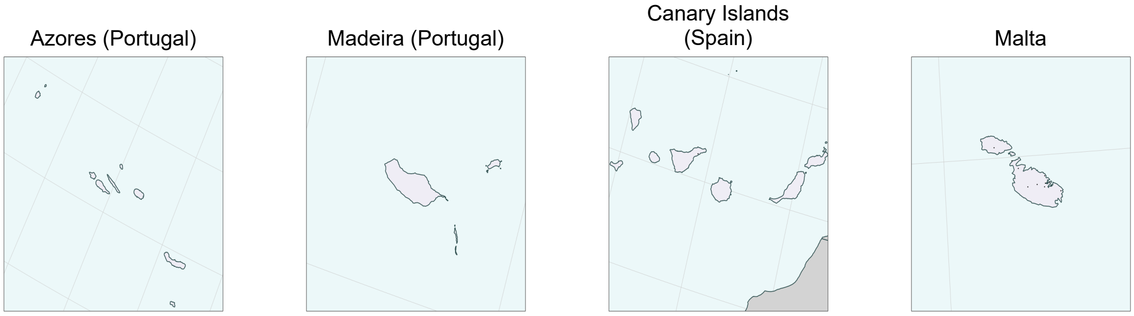


Table D9: Geographical and time averages

DENSE

YEAR : 2017
SAMPLE TYPE : mixed diet (Bq d^{-1} p^{-1})
NUCLIDE CATEGORY : caesium-137 (^{137}Cs)

Country	N	L	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual average	Monthly max	M
AT	24	2	< RL	< RL	< RL	< RL	< RL	< RL	10
BE	11	3	< RL	< RL	< RL	< RL	< RL	< RL	7
BG	15	4	< RL	< RL	2.4E-01	< RL	< RL	4.5E-01	7
CY	50	1	< RL	< RL		< RL	< RL	< RL	10
CZ	42	29	< RL	< RL	< RL	< RL	< RL	< RL	1
DE-N	112	6	< RL	< RL	< RL	< RL	< RL	2.5E-01	12
DE-C	145	9	< RL	< RL	< RL	< RL	< RL	2.0E-01	4
DE-S	113	8	2.4E-01	5.5E-01	2.6E-01	< RL	3.0E-01	1.0E+00	4
DE-E	76	6	< RL	< RL	< RL	3.9E-01	< RL	6.3E-01	12
DE	446	29	< RL	2.6E-01	< RL	< RL	< RL	4.1E-01	4
DK	3	3		< RL	< RL		< RL	< RL	7
EE	4	2	< RL			< RL	< RL	< RL	2
ES-N	20	5	< RL	< RL	< RL	< RL	< RL	< RL	12
ES-C	27	7	< RL	< RL	< RL	< RL	< RL	< RL	11
ES-S	16	4	< RL	< RL	< RL	< RL	< RL	< RL	7
ES-E	16	4	< RL	< RL	< RL	< RL	< RL	< RL	2
ES	79	20	< RL	< RL	< RL	< RL	< RL	< RL	10
FI-N	7	1				3.3E-01	3.3E-01	3.3E-01	10
FI-S	14	2				6.8E-01	6.8E-01	7.4E-01	11
FI	21	3				6.1E-01	6.1E-01	7.4E-01	11
FR-NW									
FR-NE									
FR-SW									
FR-SE									
FR									
GB-EN	8	5	< RL	< RL	< RL		< RL	< RL	8
GB-WL	5	2	< RL	< RL	< RL	< RL	< RL	< RL	8
GB-SC	28	5	< RL	< RL	< RL	< RL	< RL	< RL	4
GB-NI	5	2	< RL	< RL		< RL	< RL	< RL	12
GB	46	14	< RL	< RL	< RL	< RL	< RL	< RL	12
GR	1	1		2.0E-01			2.0E-01	2.0E-01	6
HR-A									
HR-C	5	1				< RL	< RL	< RL	11
HR	5	1				< RL	< RL	< RL	11
HU	35	13	< RL	< RL	< RL	< RL	< RL	2.0E-01	1
IE	2	1	8.6E-01		2.4E-01		5.5E-01	8.6E-01	1
IT-N	53	29	< RL	< RL	< RL	< RL	< RL	2.2E-01	2
IT-C	13	11	< RL	2.6E-01	< RL	< RL	< RL	4.0E-01	6
IT-S	11	11	< RL	< RL	3.4E-01	< RL	2.2E-01	3.4E-01	7
IT	77	51	< RL	2.0E-01	< RL	< RL	< RL	2.4E-01	6
LT	12	1	< RL	< RL	< RL	< RL	< RL	< RL	1
LU	10	1	< RL	< RL	< RL	< RL	< RL	< RL	3
LV	4	1	1.9E+00		1.5E+00	2.5E+00	2.0E+00	3.7E+00	3
MT	13	10	< RL	< RL	< RL	< RL	< RL	2.4E-01	6
NL							Δ		
PL-N	1	1				< RL	< RL	< RL	12
PL-S	2	2	3.7E-01	3.7E-01	3.7E-01	3.7E-01	3.7E-01	3.7E-01	12
PL	3	3	3.7E-01	3.7E-01	3.7E-01	3.4E-01	3.6E-01	3.7E-01	1
PT	11	1	< RL	< RL	< RL	< RL	< RL	< RL	1
RO-N	1	1	< RL	< RL	< RL	< RL	< RL	< RL	3
RO-S	2	2	< RL	< RL	< RL	1.6E+00	4.2E-01	1.6E+00	10
RO	3	3	< RL	< RL	< RL	3.5E-01	< RL	1.0E+00	10
SE-N	3	1		3.6E+00		1.2E+00	2.4E+00	3.6E+00	5
SE-S	5	2		4.4E-01		3.5E-01	3.9E-01	4.4E-01	5
SE	8	3		1.5E+00		6.4E-01	1.1E+00	1.5E+00	5
SI	5	5	< RL	< RL			< RL	< RL	2
SK	12	3	< RL	< RL	< RL	< RL	< RL	< RL	9

RL: reporting level for ^{137}Cs In mixed diet, i.e. 2.0 E-01 BQ/D.P (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
L: Number of sampling locations considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

DENSE

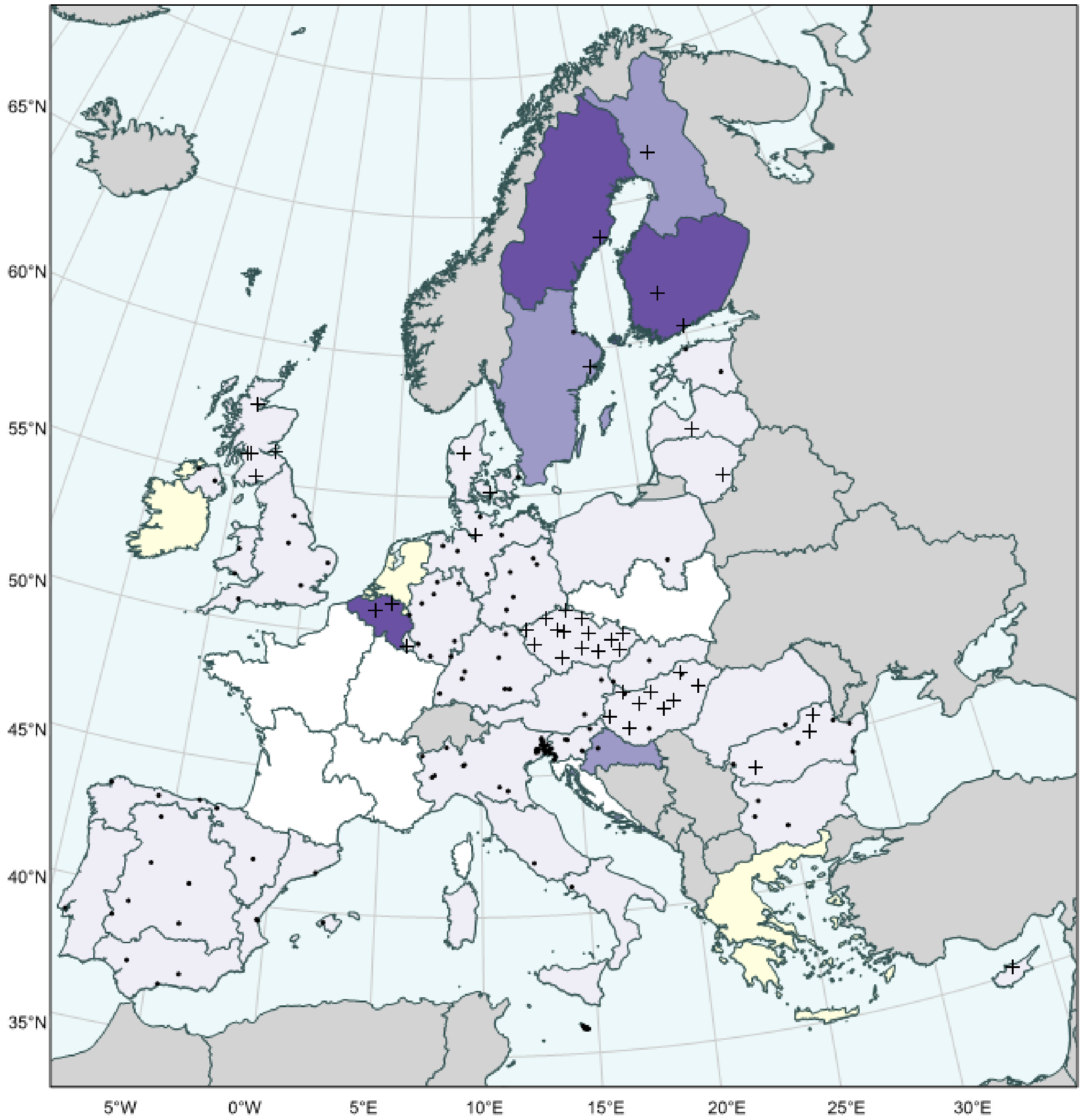
Fig. D10: Geographical and time averages

YEAR	:	2018
SAMPLE TYPE	:	mixed diet (Bq d^{-1} p^{-1})
NUCLIDE CATEGORY	:	caesium-137 (^{137}Cs)

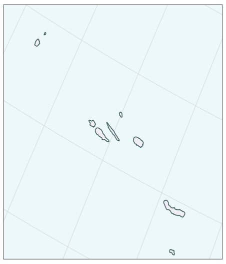
EU (no relevant data reported)
EU (only relevant constraint values above the reporting level reported)
Outside EU (in 2018)

annual avg. < 0.2 Bq d^{-1} p^{-1}
0.2 Bq d^{-1} p^{-1} <= annual avg. < 0.6 Bq d^{-1} p^{-1}
0.6 Bq d^{-1} p^{-1} <= annual avg. < 2 Bq d^{-1} p^{-1}
2 Bq d^{-1} p^{-1} <= annual avg.

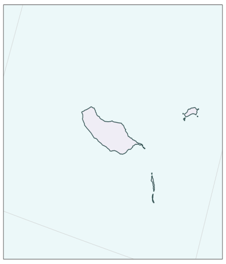
. sample location (Coordinate Accuracy = Precise or Not Specified)
+ regional average (Coordinate Accuracy = Reference Point of Region)



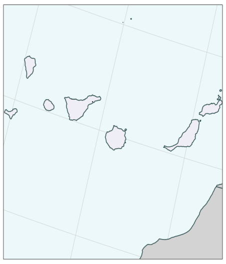
Azores (Portugal)



Madeira (Portugal)



Canary Islands (Spain)



Malta

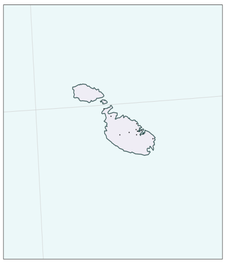


Table D10: Geographical and time averages

DENSE

YEAR : 2018
SAMPLE TYPE : mixed diet (Bq d^{-1} p^{-1})
NUCLIDE CATEGORY : caesium-137 (^{137}Cs)

Country	N	L	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual average	Monthly max	M
AT	25	2	< RL	< RL	< RL	< RL	< RL	< RL	7
BE	2	2			1.0E+00		1.0E+00	1.5E+00	9
BG	10	3	< RL	2.0E-01	< RL	2.3E-01	< RL	4.1E-01	11
CY	51	1	< RL	< RL	< RL		< RL	< RL	3
CZ	20	14	< RL	2.3E-01	< RL	< RL	< RL	3.3E-01	6
DE-N	117	6	< RL	< RL	< RL	< RL	< RL	< RL	12
DE-C	170	9	< RL	< RL	< RL	4.1E-01	< RL	1.0E+00	12
DE-S	101	7	< RL	< RL	2.0E-01	< RL	< RL	3.0E-01	8
DE-E	69	5	< RL	< RL	< RL	< RL	< RL	2.1E-01	10
DE	457	27	< RL	< RL	< RL	2.3E-01	< RL	4.2E-01	12
DK	3	3		< RL	< RL		< RL	< RL	4
EE	4	2	< RL			< RL	< RL	< RL	2
ES-N	20	5	< RL	< RL	< RL	< RL	< RL	< RL	2
ES-C	28	7	< RL	< RL	< RL	< RL	< RL	< RL	3
ES-S	16	4	< RL	< RL	< RL	< RL	< RL	< RL	7
ES-E	16	4	< RL	< RL	< RL	< RL	< RL	< RL	9
ES	80	20	< RL	< RL	< RL	< RL	< RL	< RL	7
FI-N	7	1				4.7E-01	4.7E-01	4.7E-01	10
FI-S	14	2				8.4E-01	8.4E-01	8.4E-01	10
FI	21	3				7.2E-01	7.2E-01	7.2E-01	10
FR-NW									
FR-NE									
FR-SW									
FR-SE									
FR									
GB-EN	8	5	< RL	< RL	< RL	< RL	< RL	< RL	4
GB-WL	5	2	< RL	< RL		< RL	< RL	< RL	1
GB-SC	28	5	< RL	< RL	< RL	< RL	< RL	< RL	4
GB-NI	5	2		< RL		< RL	< RL	< RL	5
GB	46	14	< RL	< RL	< RL	< RL	< RL	< RL	4
GR							Δ		
HR-A									
HR-C	5	1				2.6E-01	2.6E-01	4.3E-01	10
HR	5	1				2.6E-01	2.6E-01	4.3E-01	10
HU	23	12	< RL	< RL	< RL	< RL	< RL	2.2E-01	1
IE							Δ		
IT-N	57	31	< RL	< RL	< RL	< RL	< RL	2.3E-01	5
IT-C	3	1	< RL	< RL	< RL	< RL	< RL	< RL	3
IT-S	1	1	< RL				< RL	< RL	3
IT	61	33	< RL	< RL	< RL	< RL	< RL	2.2E-01	5
LT	12	1	< RL	< RL	< RL	< RL	< RL	< RL	12
LU	12	1	< RL	< RL	< RL	< RL	< RL	< RL	1
LV	4	1	< RL		< RL	< RL	< RL	< RL	3
MT	11	10	< RL	< RL	< RL	< RL	< RL	< RL	11
NL							Δ		
PL-N	1	1	< RL	< RL	< RL	< RL	< RL	< RL	1
PL-S									
PL	1	1	< RL	< RL	< RL	< RL	< RL	< RL	1
PT	11	1	< RL	< RL	< RL	< RL	< RL	< RL	1
RO-N	8	1	< RL	< RL	< RL	< RL	< RL	< RL	3
RO-S	29	8	< RL	< RL	< RL	< RL	< RL	< RL	2
RO	37	9	< RL	< RL	< RL	< RL	< RL	< RL	2
SE-N	3	1		< RL		1.5E+00	7.8E-01	2.1E+00	11
SE-S	4	2		< RL		3.1E-01	2.1E-01	5.2E-01	10
SE	7	3		< RL		1.2E+00	6.4E-01	2.1E+00	12
SI	5	5	< RL	< RL			< RL	< RL	4
SK	8	2	< RL	< RL	< RL	< RL	< RL	< RL	2

RL: reporting level for ^{137}Cs In mixed diet, i.e. 2.0 E-01 BQ/D.P (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
L: Number of sampling locations considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

DENSE

Fig. D11: Geographical and time averages

YEAR	:	2019
SAMPLE TYPE	:	mixed diet (Bq d^{-1} p^{-1})
NUCLIDE CATEGORY	:	caesium-137 (^{137}Cs)

EU (no relevant data reported)

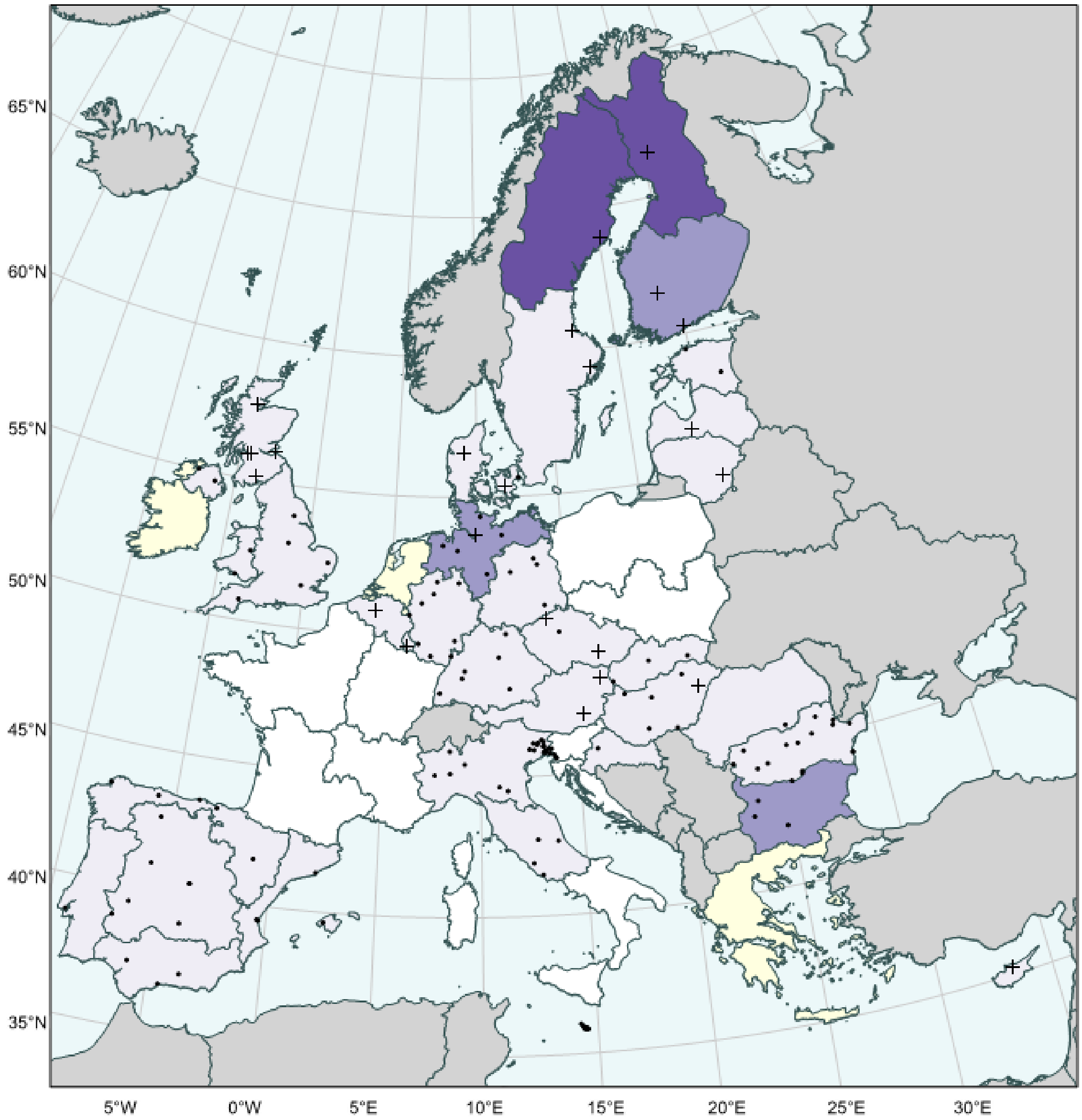
EU (only relevant constraint values above the reporting level reported)

Outside EU (in 2019)

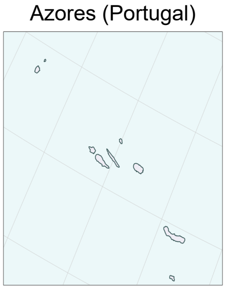
			annual avg.	<	0.2	Bq d^{-1} p^{-1}
0.2	Bq d^{-1} p^{-1}	<=	annual avg.	<	0.6	Bq d^{-1} p^{-1}
0.6	Bq d^{-1} p^{-1}	<=	annual avg.	<	2	Bq d^{-1} p^{-1}
2	Bq d^{-1} p^{-1}	<=	annual avg.			

. sample location (Coordinate Accuracy = Precise or Not Specified)

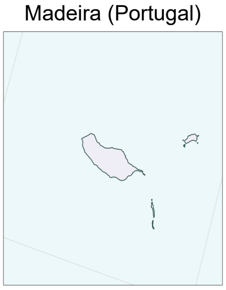
\+ regional average (Coordinate Accuracy = Reference Point of Region)



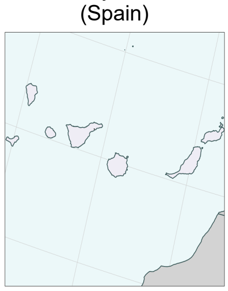
Azores (Portugal)



Madeira (Portugal)



Canary Islands (Spain)



Malta

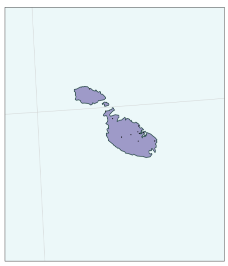


Table D11: Geographical and time averages

YEAR : 2019
SAMPLE TYPE : mixed diet (Bq d^{-1} p^{-1})
NUCLIDE CATEGORY : caesium-137 (^{137}Cs)

Country	N	L	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual average	Monthly max	M
AT	29	2	< RL	< RL	< RL	< RL	< RL	< RL	2
BE	1	1	< RL				< RL	< RL	1
BG	14	4	< RL	5.6E-01	4.7E-01	< RL	3.3E-01	9.2E-01	6
CY	48	1	< RL	< RL	< RL	< RL	< RL	< RL	5
CZ	3	3	< RL	< RL	< RL	< RL	< RL	< RL	2
DE-N	112	6	< RL	< RL	2.0E-01	2.9E-01	2.0E-01	3.6E-01	10
DE-C	158	9	< RL	< RL	< RL	< RL	< RL	< RL	5
DE-S	105	6	< RL	3.5E-01	< RL	< RL	< RL	7.7E-01	4
DE-E	63	4	< RL	< RL	< RL	< RL	< RL	2.3E-01	9
DE	438	25	< RL	2.1E-01	< RL	< RL	< RL	3.6E-01	4
DK	3	3		< RL	< RL		< RL	< RL	5
EE	4	2	< RL			2.6E-01	< RL	2.6E-01	10
ES-N	20	5	< RL	< RL	< RL	< RL	< RL	< RL	7
ES-C	28	7	< RL	< RL	< RL	< RL	< RL	< RL	4
ES-S	16	4	< RL	< RL	< RL	< RL	< RL	< RL	9
ES-E	16	4	< RL	< RL	< RL	< RL	< RL	< RL	5
ES	80	20	< RL	< RL	< RL	< RL	< RL	< RL	1
FI-N	7	1				7.4E-01	7.4E-01	7.4E-01	10
FI-S	14	2				5.6E-01	5.6E-01	5.6E-01	10
FI	21	3				6.2E-01	6.2E-01	6.2E-01	10
FR-NW									
FR-NE									
FR-SW									
FR-SE									
FR									
GB-EN	8	5	< RL	< RL	< RL	< RL	< RL	< RL	11
GB-WL	5	2	< RL	< RL	< RL		< RL	< RL	6
GB-SC	28	5	< RL	< RL	< RL	< RL	< RL	< RL	1
GB-NI	5	2	< RL	< RL	< RL		< RL	2.7E-01	8
GB	46	14	< RL	< RL	< RL	< RL	< RL	< RL	8
GR							Δ		
HR-A									
HR-C	5	1				< RL	< RL	< RL	11
HR	5	1				< RL	< RL	< RL	11
HU	16	6	< RL	< RL	< RL	< RL	< RL	< RL	7
IE							Δ		
IT-N	45	25	< RL	2.1E-01	< RL	< RL	< RL	2.6E-01	6
IT-C	8	4	< RL	< RL	< RL	< RL	< RL	< RL	11
IT-S									
IT	53	29	< RL	< RL	< RL	< RL	< RL	2.1E-01	6
LT	12	1	< RL	< RL	< RL	< RL	< RL	< RL	8
LU	10	1	< RL	< RL	< RL	< RL	< RL	< RL	12
LV	3	1		< RL	< RL		< RL	< RL	4
MT	12	11	2.4E-01	2.2E-01	< RL	< RL	2.0E-01	3.1E-01	1
NL							Δ		
PL-N									
PL-S									
PL									
PT	11	1	< RL	< RL	< RL	< RL	< RL	< RL	11
RO-N	2	1	< RL		< RL		< RL	< RL	3
RO-S	38	15	< RL	< RL	< RL	< RL	< RL	< RL	11
RO	40	16	< RL	< RL	< RL	< RL	< RL	< RL	11
SE-N	3	1		2.8E-01		1.3E+00	7.9E-01	2.5E+00	12
SE-S	5	2	2.0E-01	< RL		< RL	< RL	2.0E-01	2
SE	8	3	2.0E-01	2.1E-01		5.2E-01	3.1E-01	1.4E+00	12
SI									
SK	11	3	< RL	< RL	< RL	< RL	< RL	3.5E-01	6

RL: reporting level for ^{137}Cs In mixed diet, i.e. 2.0 E-01 BQ/D.P (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
L: Number of sampling locations considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

DENSE

Fig. D12: Geographical and time averages

YEAR	:	2020
SAMPLE TYPE	:	mixed diet (Bq d^{-1} p^{-1})
NUCLIDE CATEGORY	:	caesium-137 (^{137}Cs)

EU (no relevant data reported)	annual avg. < 0.2 Bq d^{-1} p^{-1}
EU (only relevant constraint values above the reporting level reported)	0.2 Bq d^{-1} p^{-1} <= annual avg. < 0.6 Bq d^{-1} p^{-1}
	0.6 Bq d^{-1} p^{-1} <= annual avg. < 2 Bq d^{-1} p^{-1}
Outside EU (in 2020)	2 Bq d^{-1} p^{-1} <= annual avg.

. sample location (Coordinate Accuracy = Precise or Not Specified)

\+ regional average (Coordinate Accuracy = Reference Point of Region)

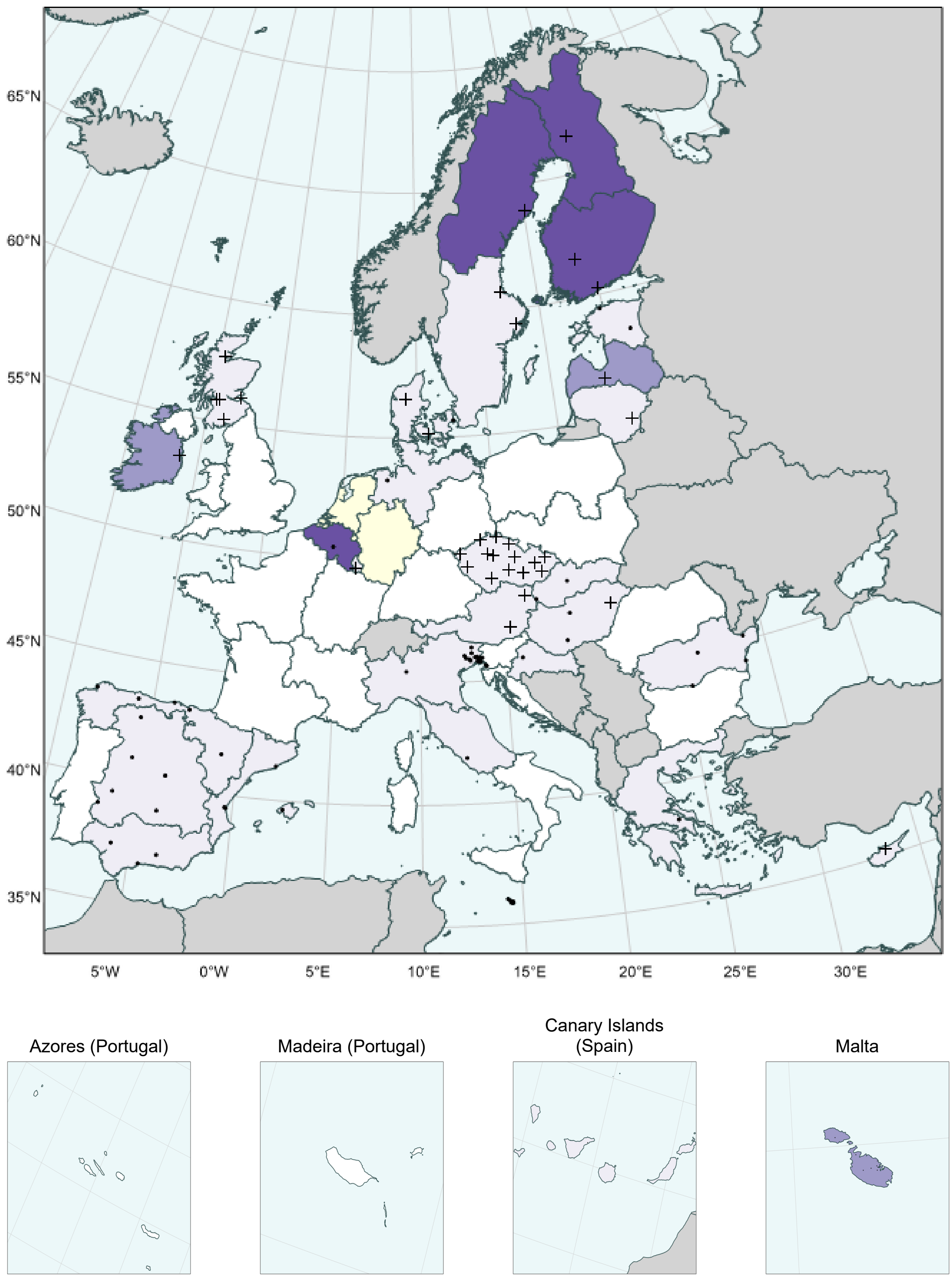


Table D12: Geographical and time averages

YEAR : 2020

SAMPLE TYPE : mixed diet (Bq d^{-1} p^{-1})

NUCLIDE CATEGORY : caesium-137 (^{137}Cs)

DENSE

Country	N	L	1st quarter	2nd quarter	3rd quarter	4th quarter	Annual average	Monthly max	M
AT	23	2	< RL	< RL	< RL	< RL	< RL	< RL	6
BE	1	1			1.4E+00		1.4E+00	1.4E+00	8
BG									
CY	43	1	< RL	< RL		< RL	< RL	< RL	10
CZ	22	14	< RL	< RL	< RL	< RL	< RL	< RL	4
DE-N	1	1	< RL				< RL	< RL	1
DE-C							Δ		
DE-S									
DE-E									
DE	1	1	< RL				< RL	< RL	1
DK	3	3			< RL		< RL	< RL	8
EE	4	2	< RL			< RL	< RL	< RL	3
ES-N	18	5	< RL	< RL	< RL	< RL	< RL	< RL	6
ES-C	26	7	< RL	< RL	< RL	< RL	< RL	< RL	2
ES-S	16	4	< RL	< RL	< RL	< RL	< RL	< RL	10
ES-E	16	4	< RL	< RL	< RL	< RL	< RL	< RL	7
ES	76	20	< RL	< RL	< RL	< RL	< RL	< RL	1
FI-N	7	1				9.8E-01	9.8E-01	9.8E-01	11
FI-S	14	2			1.0E+00	1.1E+00	1.1E+00	1.1E+00	10
FI	21	3			1.0E+00	1.0E+00	1.0E+00	1.1E+00	10
FR-NW									
FR-NE									
FR-SW									
FR-SE									
FR									
GB-EN									
GB-WL									
GB-SC	23	5	< RL	< RL	< RL	< RL	< RL	< RL	9
GB-NI									
GB	23	5	< RL	< RL	< RL	< RL	< RL	< RL	9
GR	3	1	< RL			< RL	< RL	< RL	12
HR-A									
HR-C	5	1				< RL	< RL	< RL	12
HR	5	1				< RL	< RL	< RL	12
HU	8	3		< RL	< RL		< RL	< RL	9
IE	1	1		3.5E-01			3.5E-01	3.5E-01	6
IT-N	25	17	< RL	< RL	< RL	< RL	< RL	< RL	6
IT-C	2	1			< RL	< RL	< RL	< RL	7
IT-S									
IT	27	18	< RL	< RL	< RL	< RL	< RL	< RL	6
LT	8	1	< RL	< RL	< RL	< RL	< RL	< RL	10
LU	9	1	< RL	< RL	< RL	< RL	< RL	< RL	2
LV	3	1	5.2E-01		< RL	< RL	2.8E-01	5.2E-01	3
MT	8	8	2.1E-01	2.0E-01	2.0E-01	2.0E-01	2.0E-01	3.0E-01	1
NL							Δ		
PL-N									
PL-S									
PL									
PT									
RO-N									
RO-S	15	4	< RL	< RL	< RL	< RL	< RL	< RL	5
RO	15	4	< RL	< RL	< RL	< RL	< RL	< RL	5
SE-N	3	1		3.6E-01		2.5E+00	1.4E+00	2.6E+00	12
SE-S	4	2		< RL		< RL	< RL	< RL	6
SE	7	3		< RL		1.7E+00	9.1E-01	2.6E+00	12
SI									
SK	6	2	< RL	< RL		< RL	< RL	< RL	10

RL: reporting level for ^{137}Cs In mixed diet, i.e. 2.0 E-01 BQ/D.P (see Appendix B)
Δ: only constraint (<) values above the reporting level were reported

N: Number of measurements considered in calculating the annual concentration.
L: Number of sampling locations considered in calculating the annual concentration.
Monthly max: Maximum monthly average in the year.
M: Month during which the maximum occurred.

Fig. A13

Sampling locations for ^{7}Be and ^{137}Cs in airborne particulates considered in Figures A14 – A41

Fig. A14 Activity trends for ⁷Be in airborne particulates (Helsinki and Ivalo)

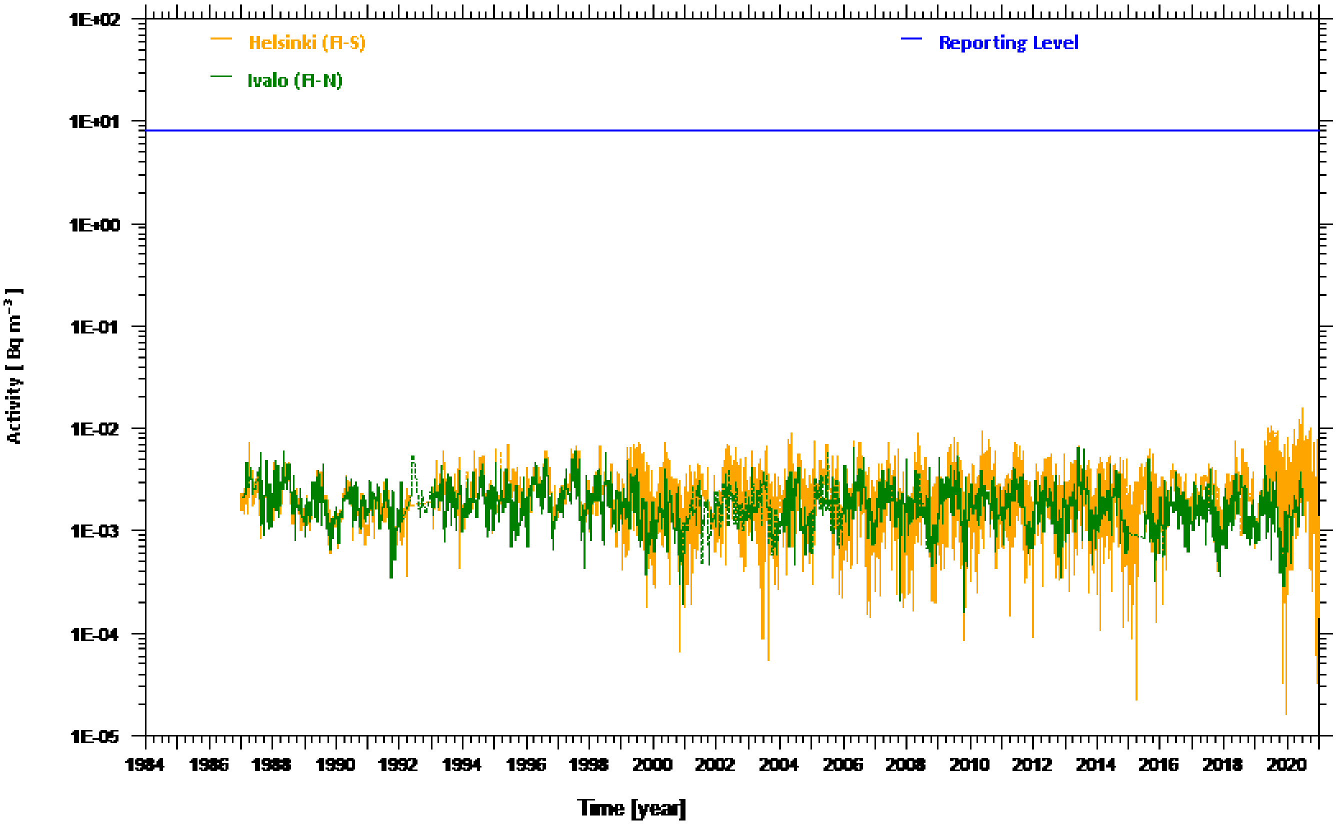


Fig. A15 Activity trends for ⁷Be in airborne particulates (Baia Mare, Bucharest and Sofia)

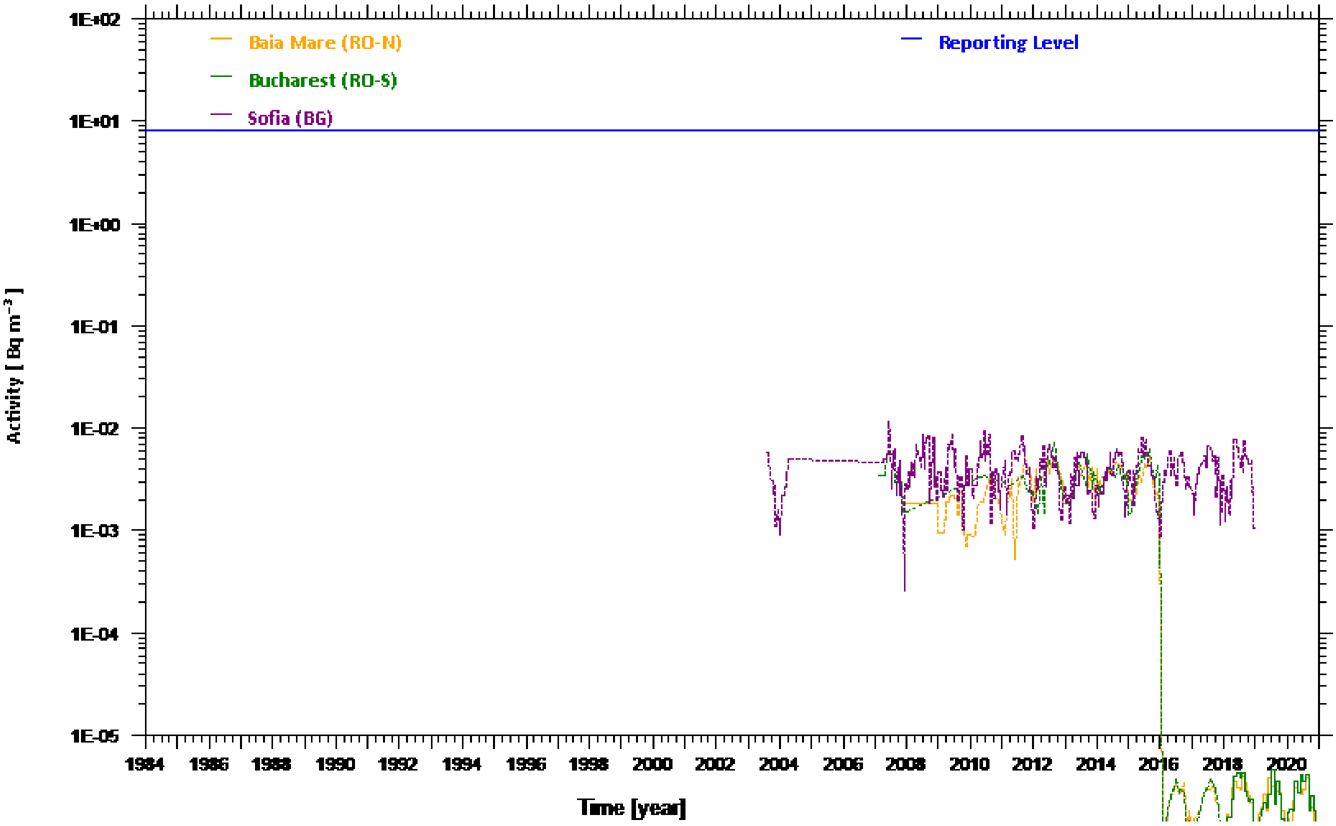


Fig. A16 Activity trends for ^{7}Be in airborne particulates (Barcelona, Bilbao and Madrid)

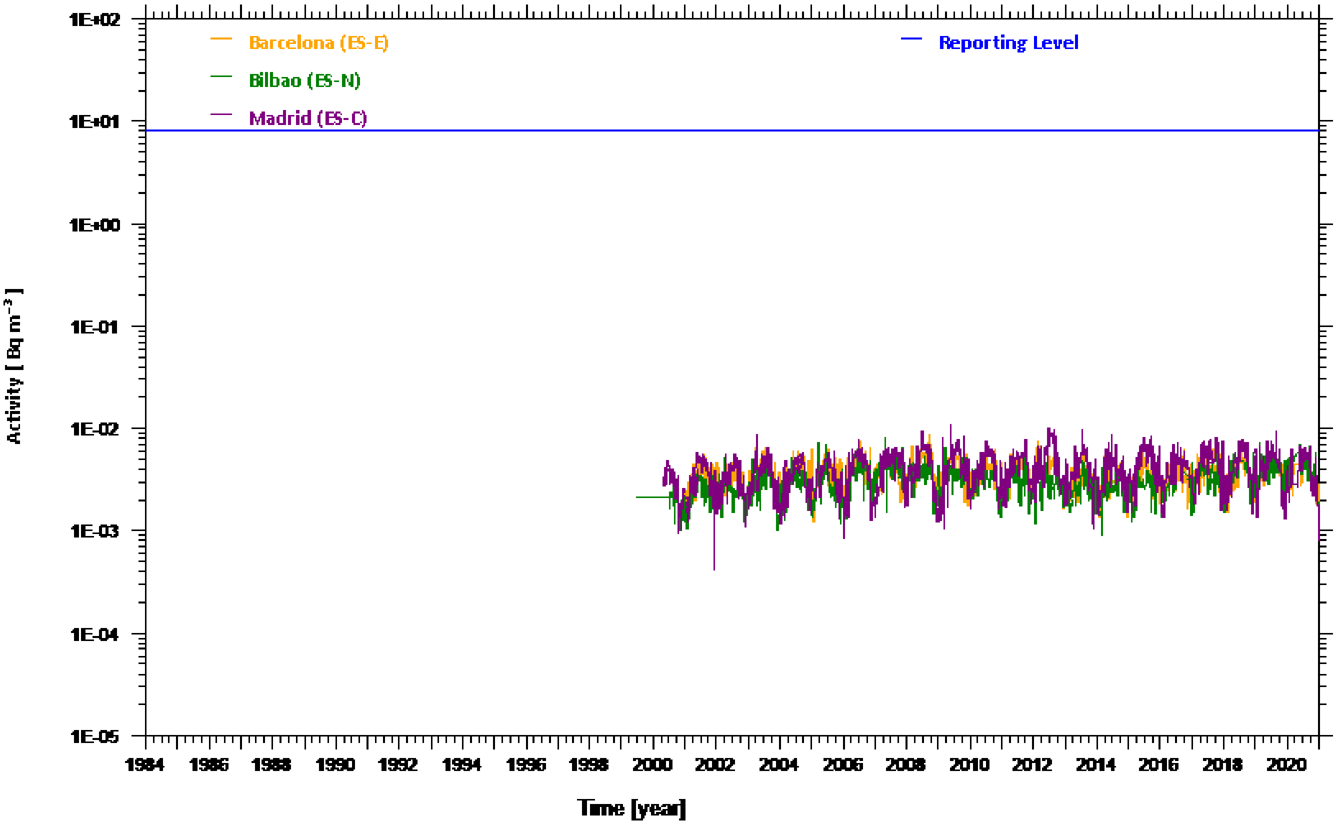


Fig. A17 Activity trends for ^{7}Be in airborne particulates (Milan and Seyne-sur-Mer)

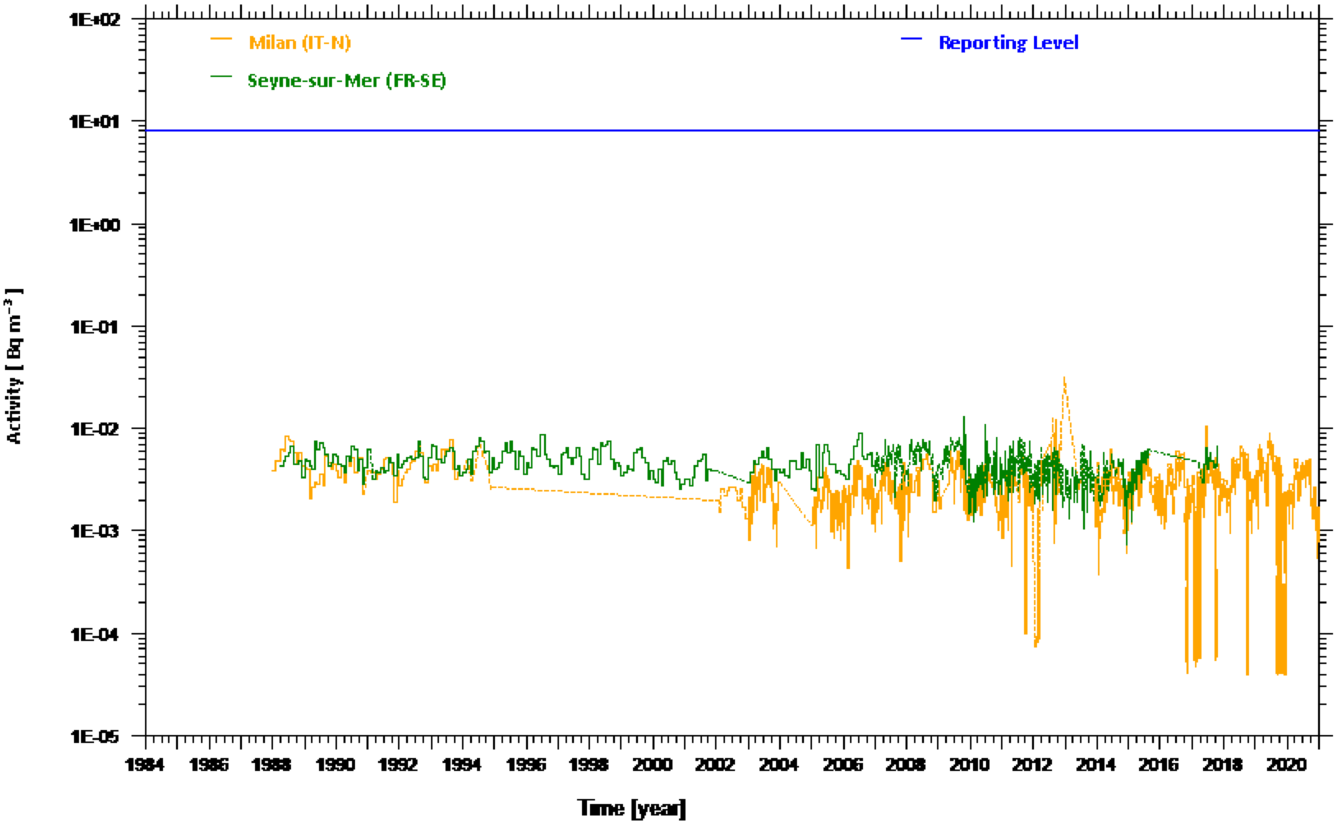


Fig. A18 Activity trends for ^{7}Be in airborne particulates (La Laguna-Tenerife, Sacavém and Sevilla)

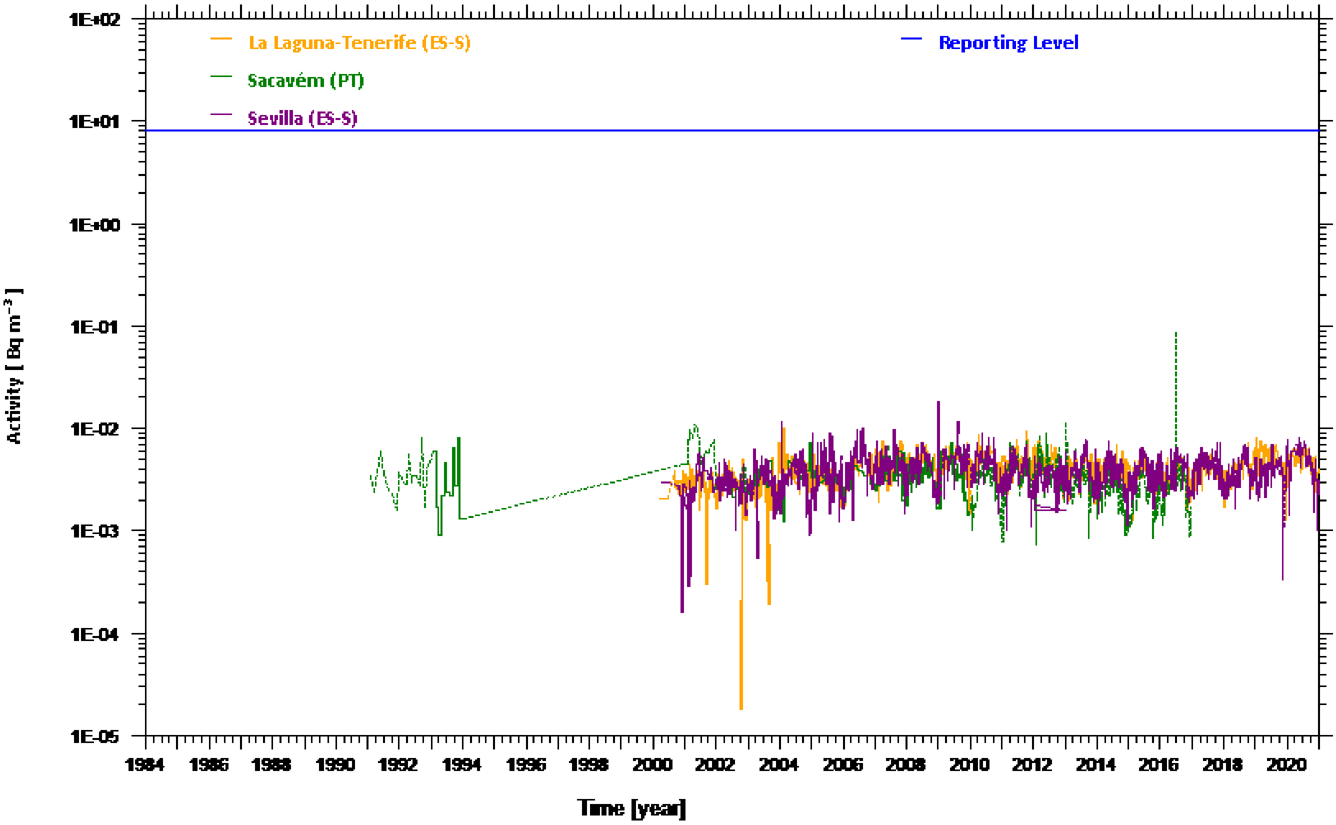


Fig. A19 Activity trends for ^{7}Be in airborne particulates (Brindisi and Paola)

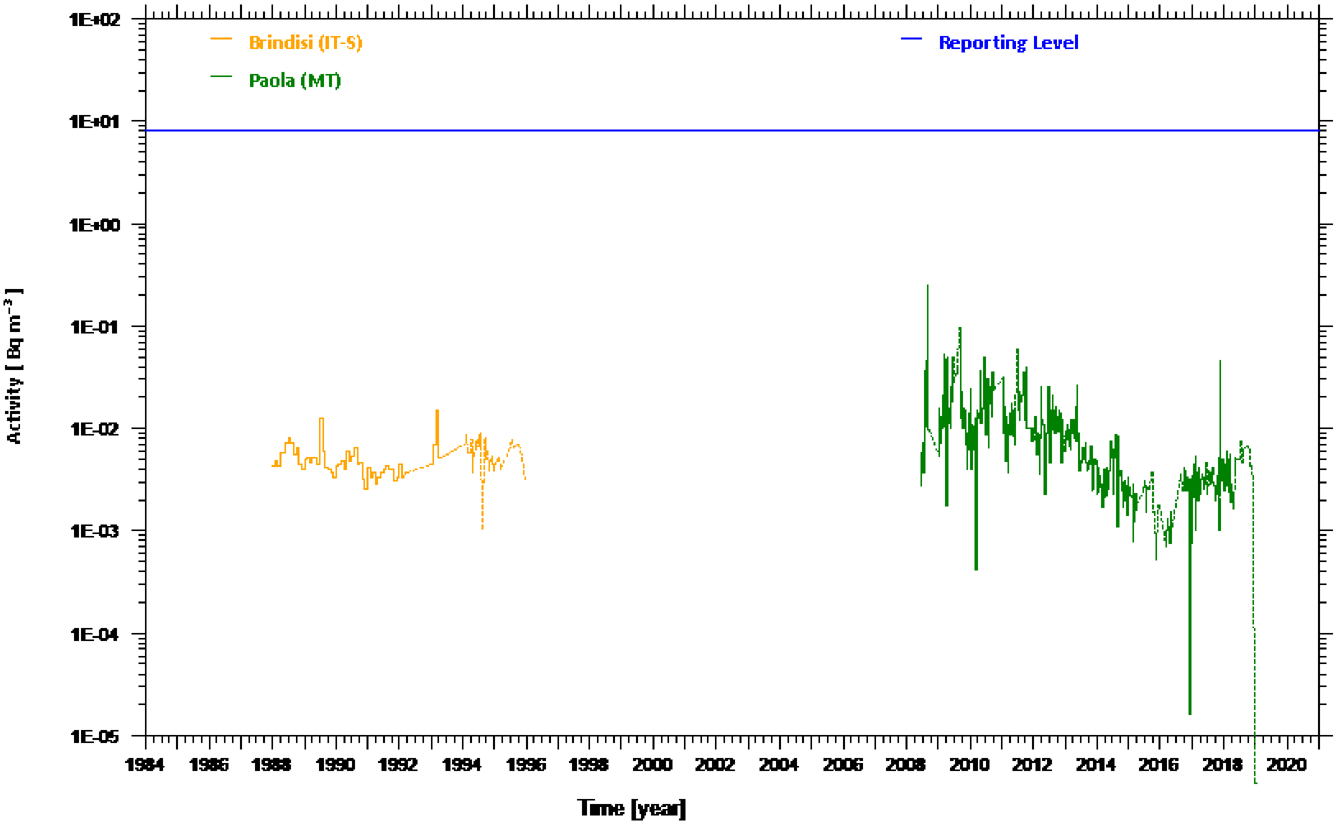


Fig. A20 Activity trends for ^{7}Be in airborne particulates (Umeå, Kista and Risø)

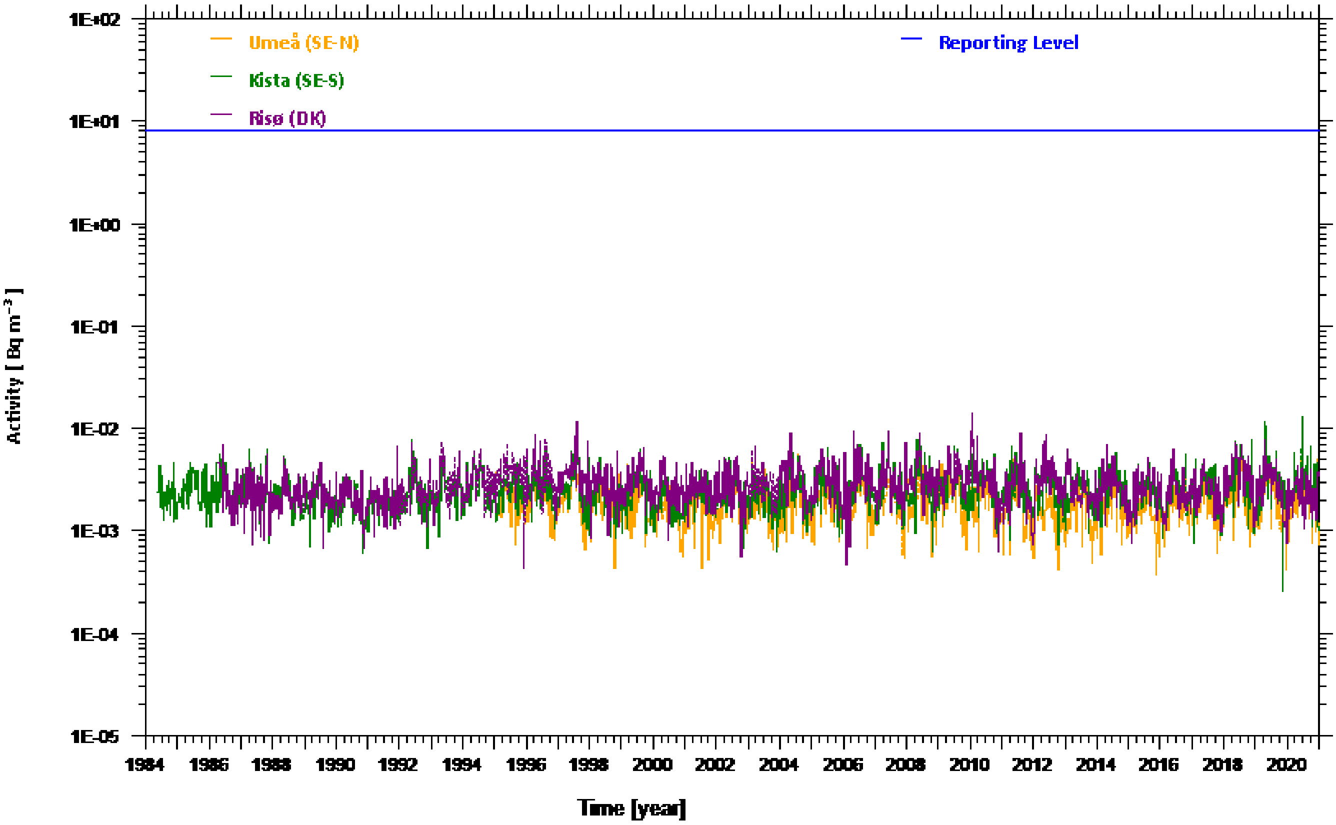


Fig. A21 Activity trends for ^{7}Be in airborne particulates (Harku and Utena)

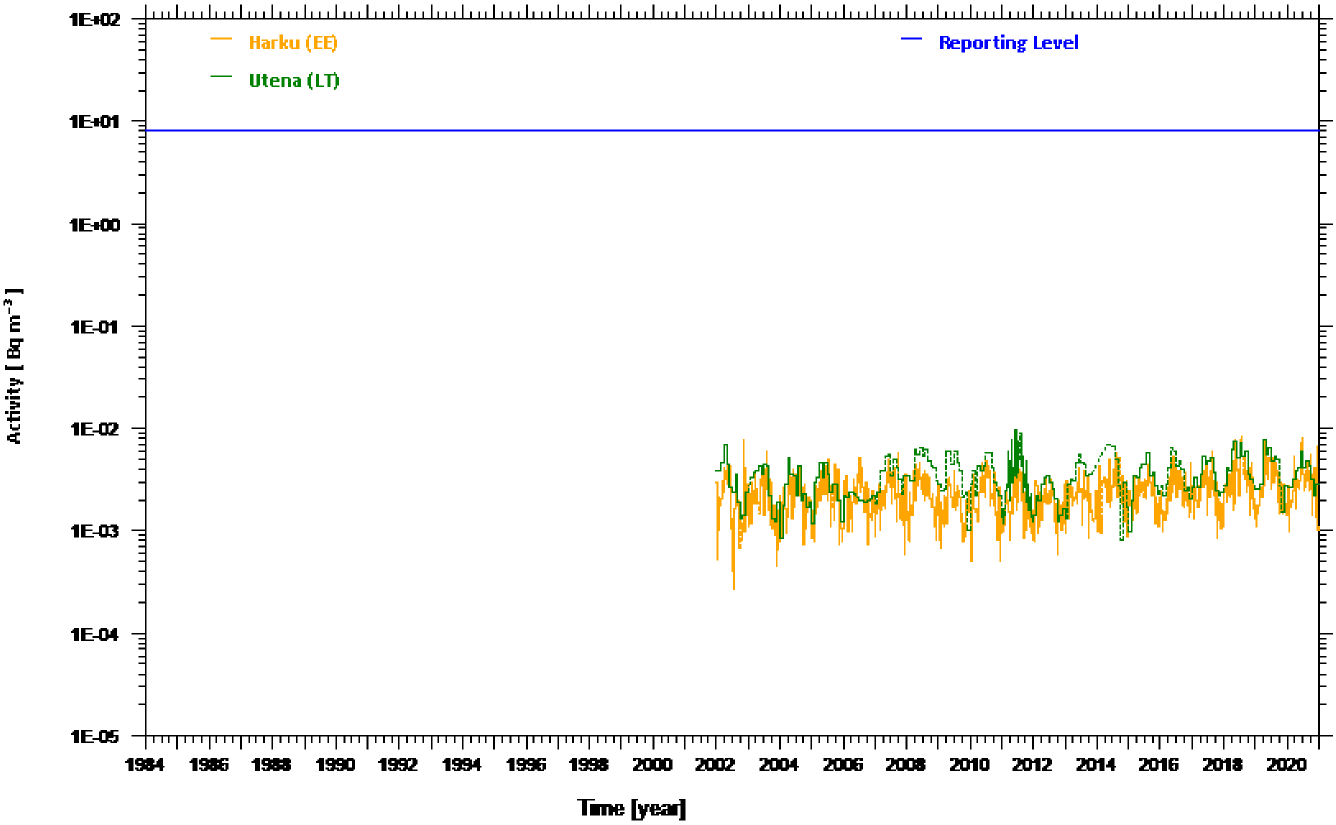


Fig. A22 Activity trends for ⁷Be in airborne particulates (Chilton, Lerwick and Clonskeagh)

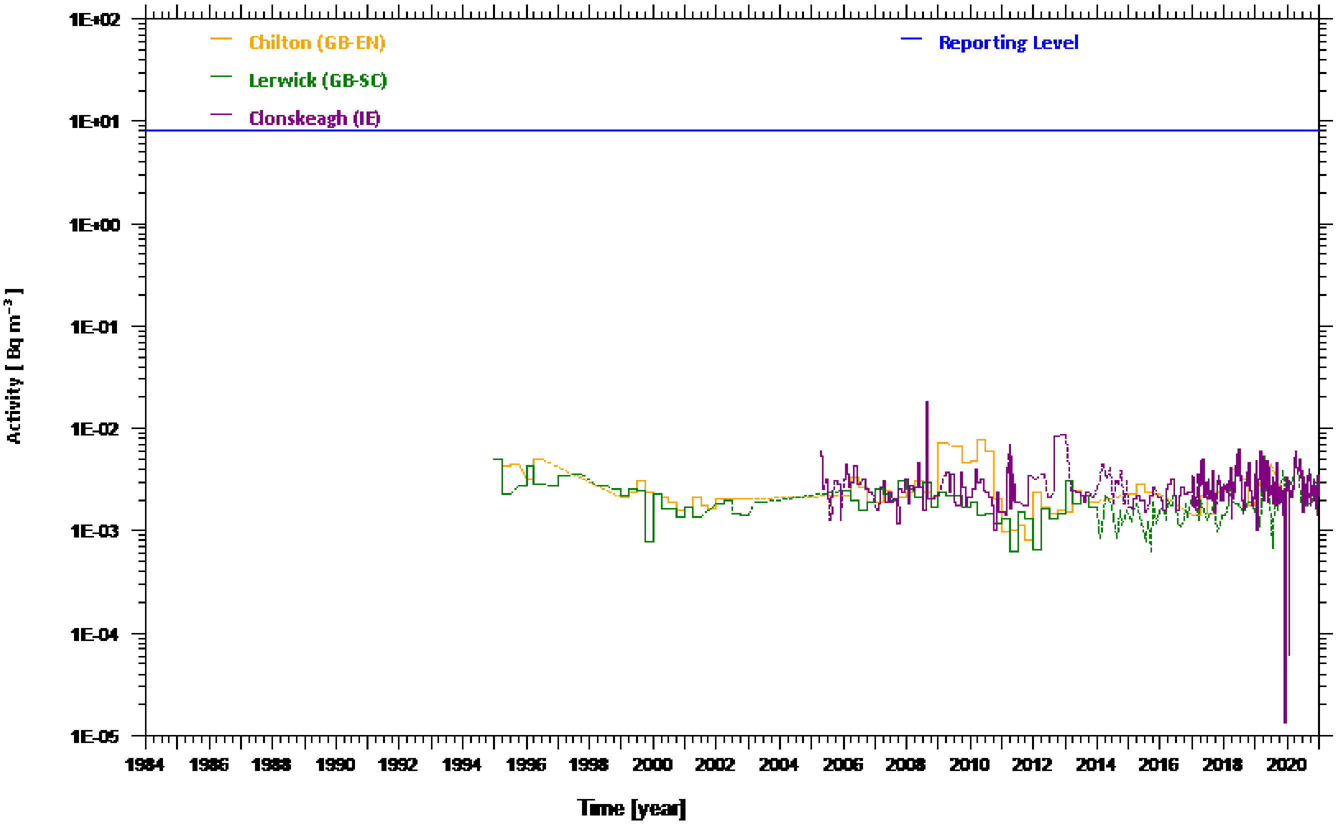
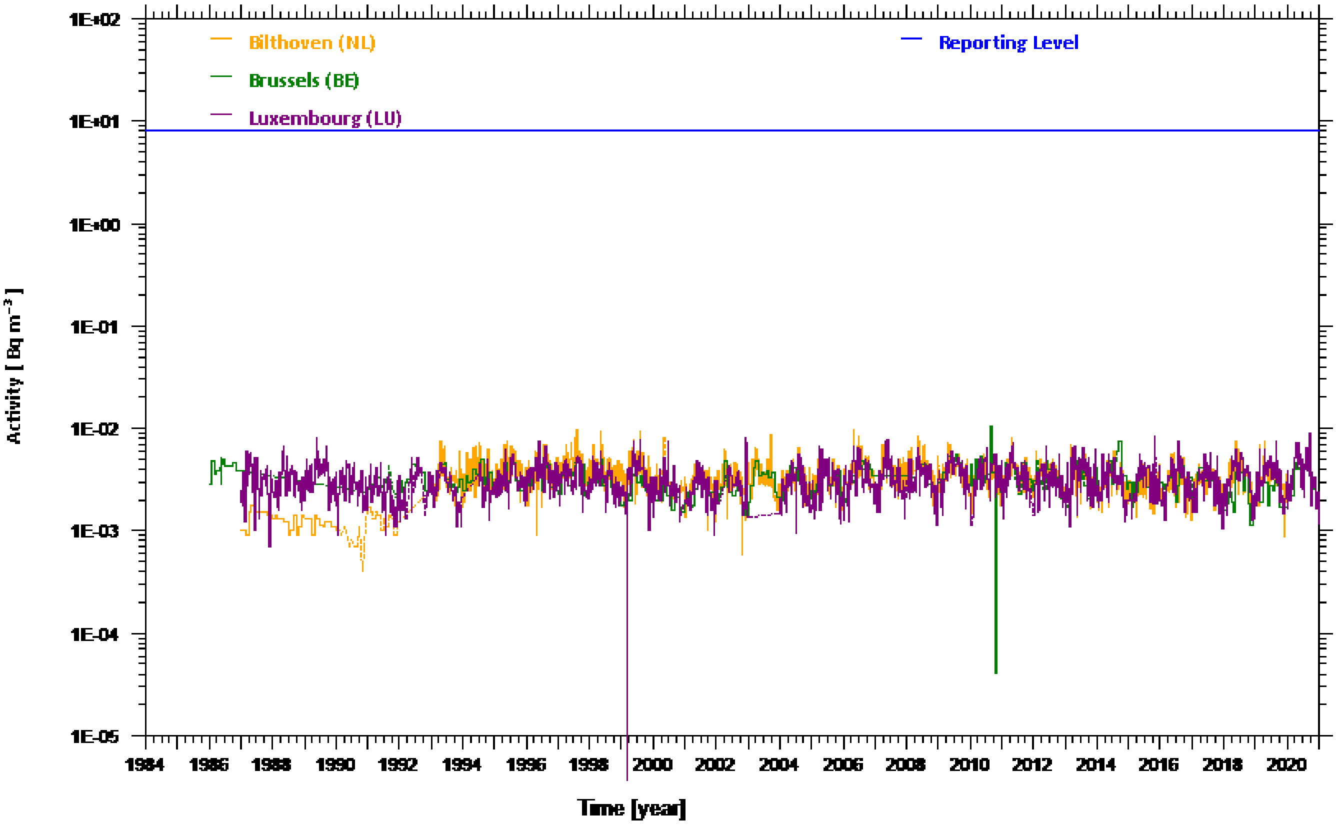


Fig. A23 Activity trends for ⁷Be in airborne particulates (Bilthoven, Brussels and Luxembourg)



* The 7Be results for Bilthoven between 1987 and 1992 are underestimates due to a different sampling procedure and sample treatment

Activity trends

SAMPLE TYPE	:	airborne particulates (Bq m^{-3})
NUCLIDE CATEGORY	:	beryllium-7 (^{7}Be)

SPARSE

Fig. A24 Activity trends for ^{7}Be in airborne particulates (Braunschweig, Offenbach and Berlin)

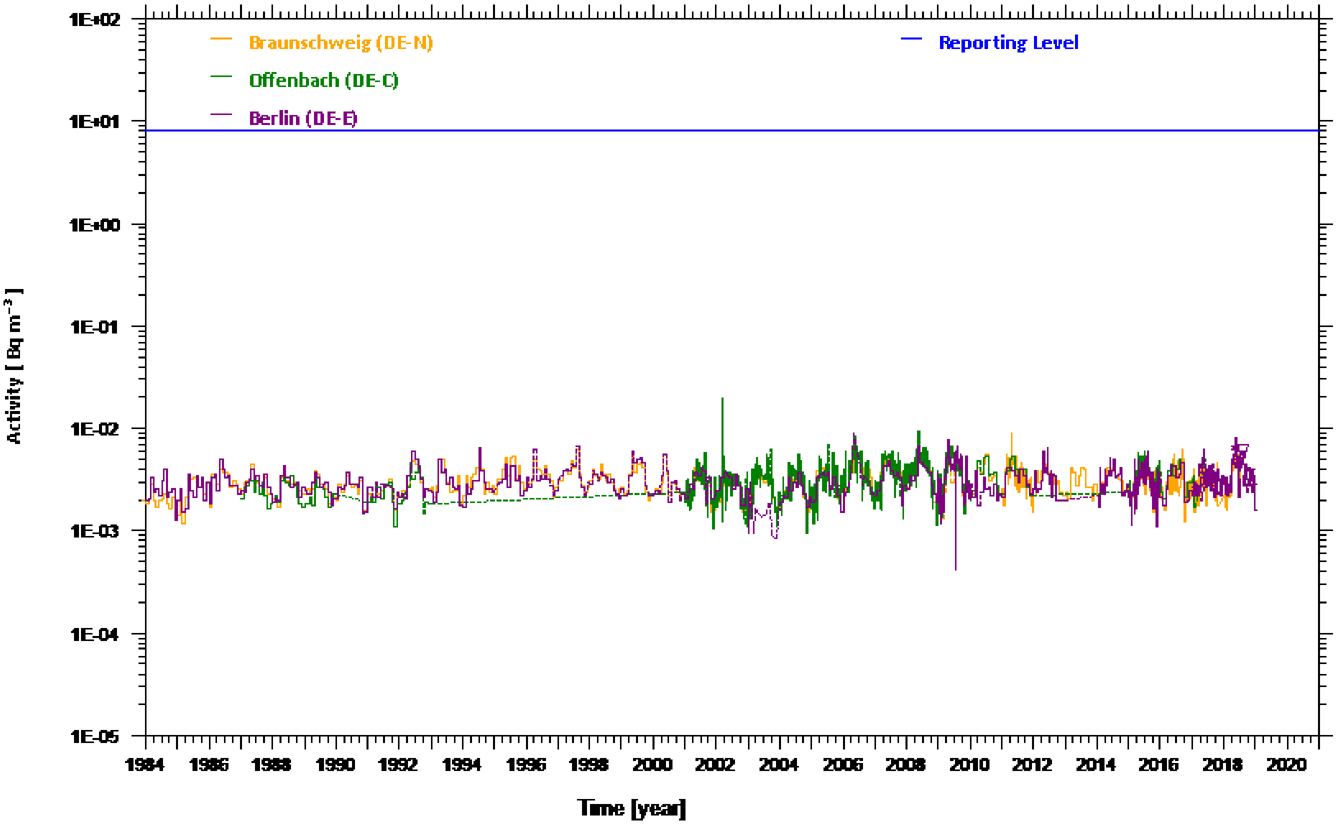


Fig. A25 Activity trends for ^{7}Be in airborne particulates (Warsaw, Cracow and Prague)

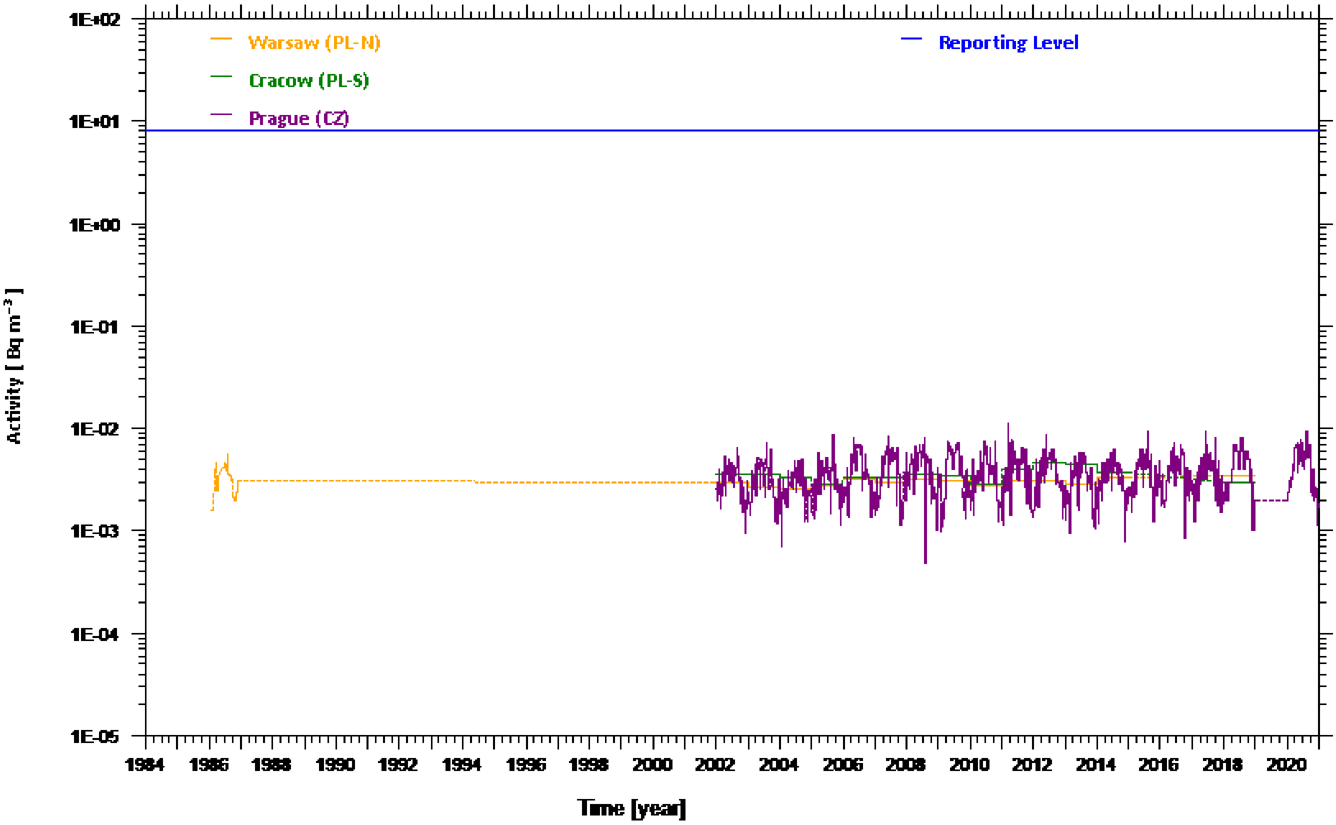


Fig. A26 Activity trends for ^{7}Be in airborne particulates (Freiburg, Ljubljana and Muenchen-Neuherberg)

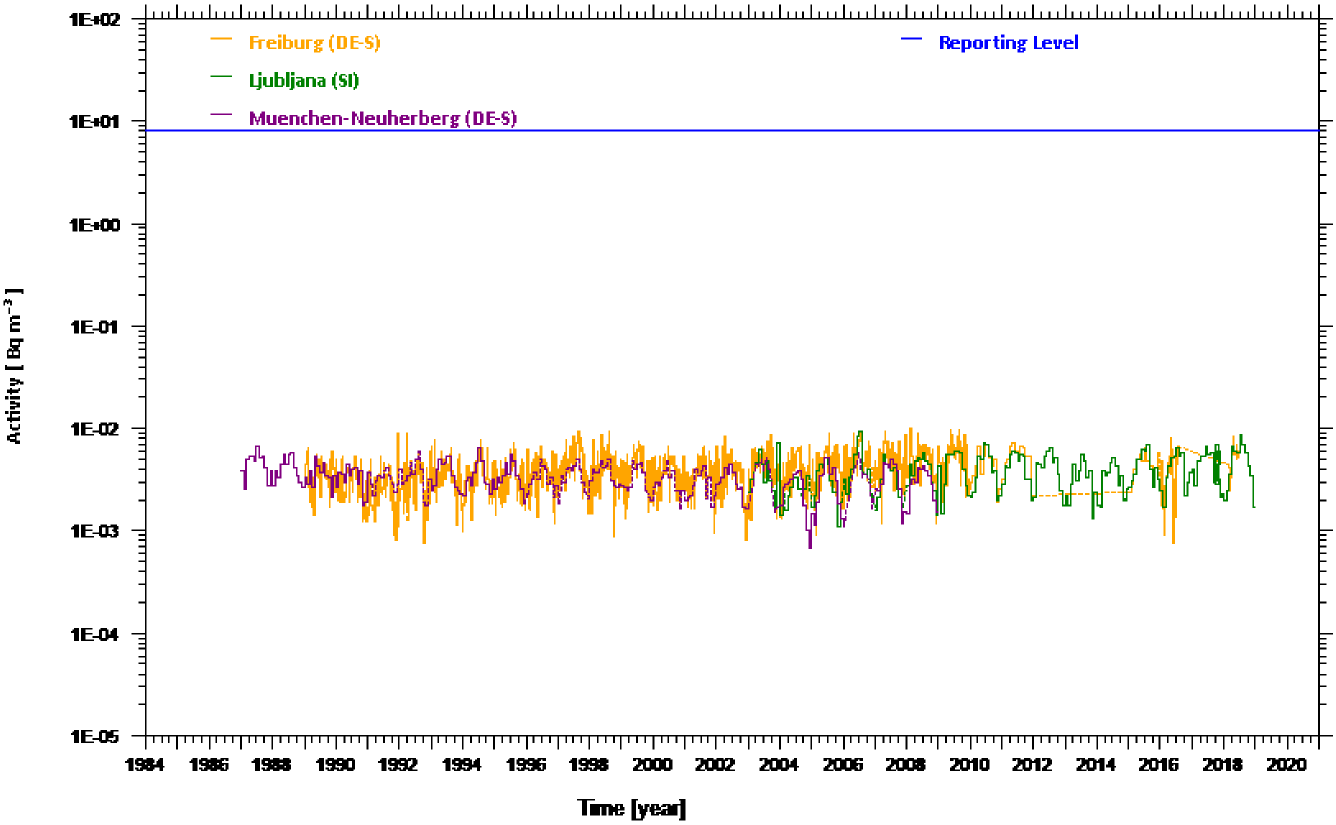


Fig. A27 Activity trends for ^{7}Be in airborne particulates (Vienna-Ages, Bratislava and Budapest)

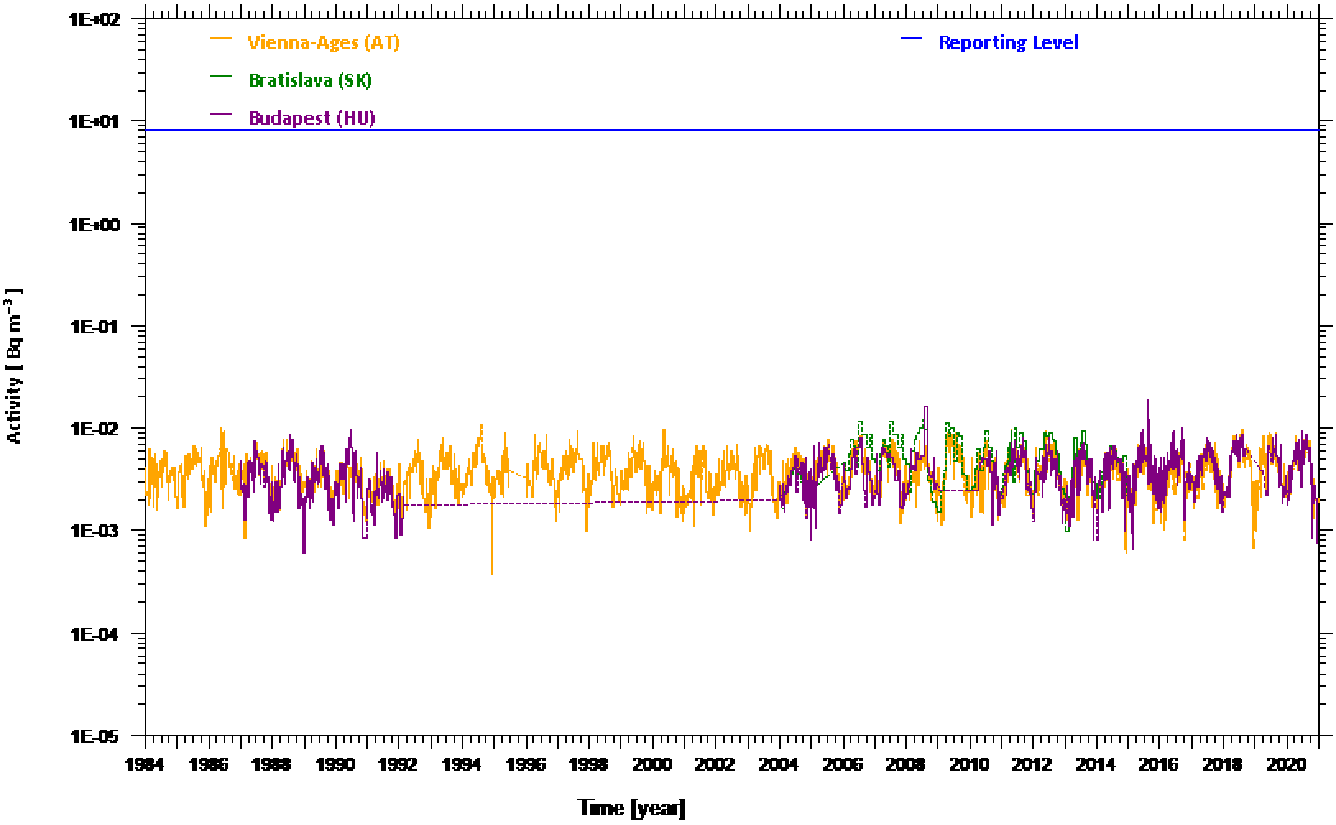


Fig. A28 Activity trends for ^{137}Cs in airborne particulates (Helsinki and Ivalo)

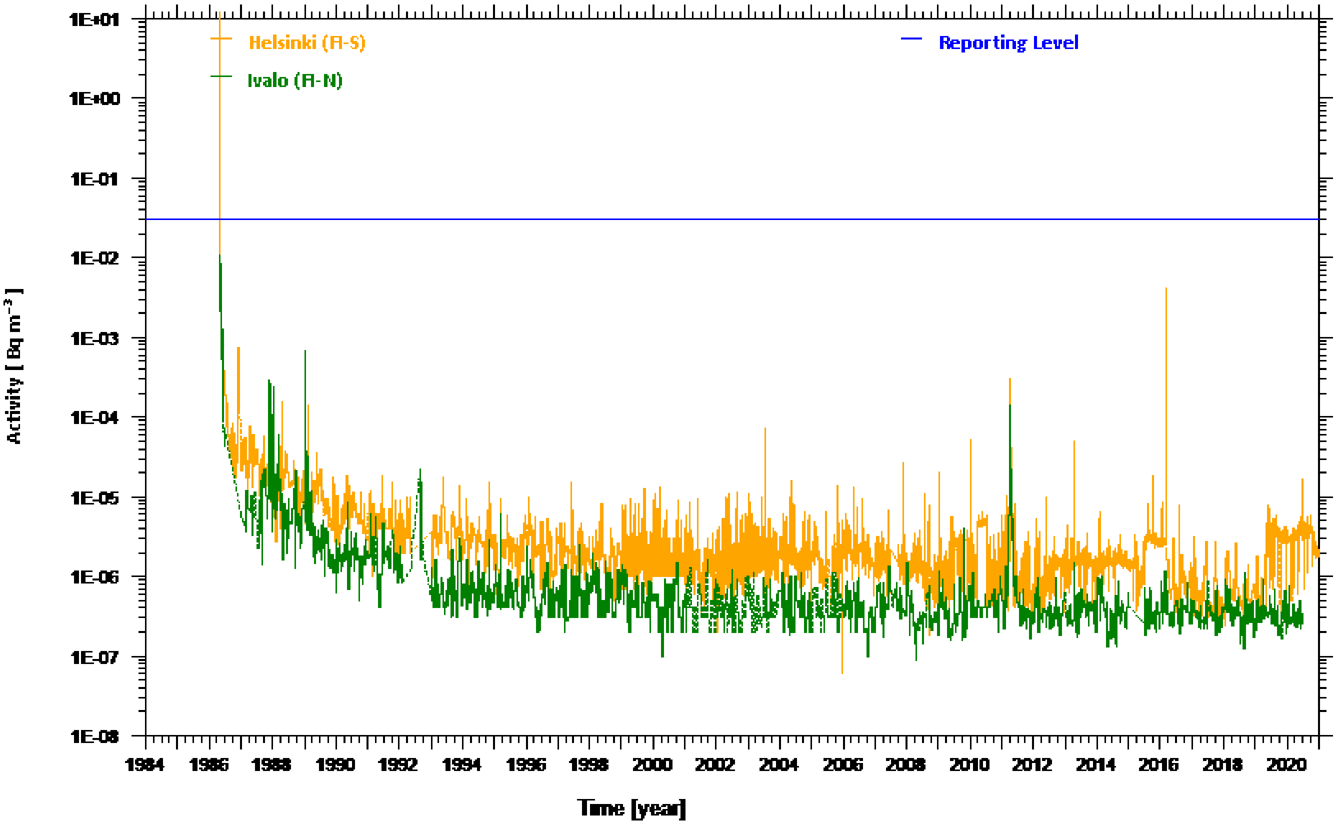
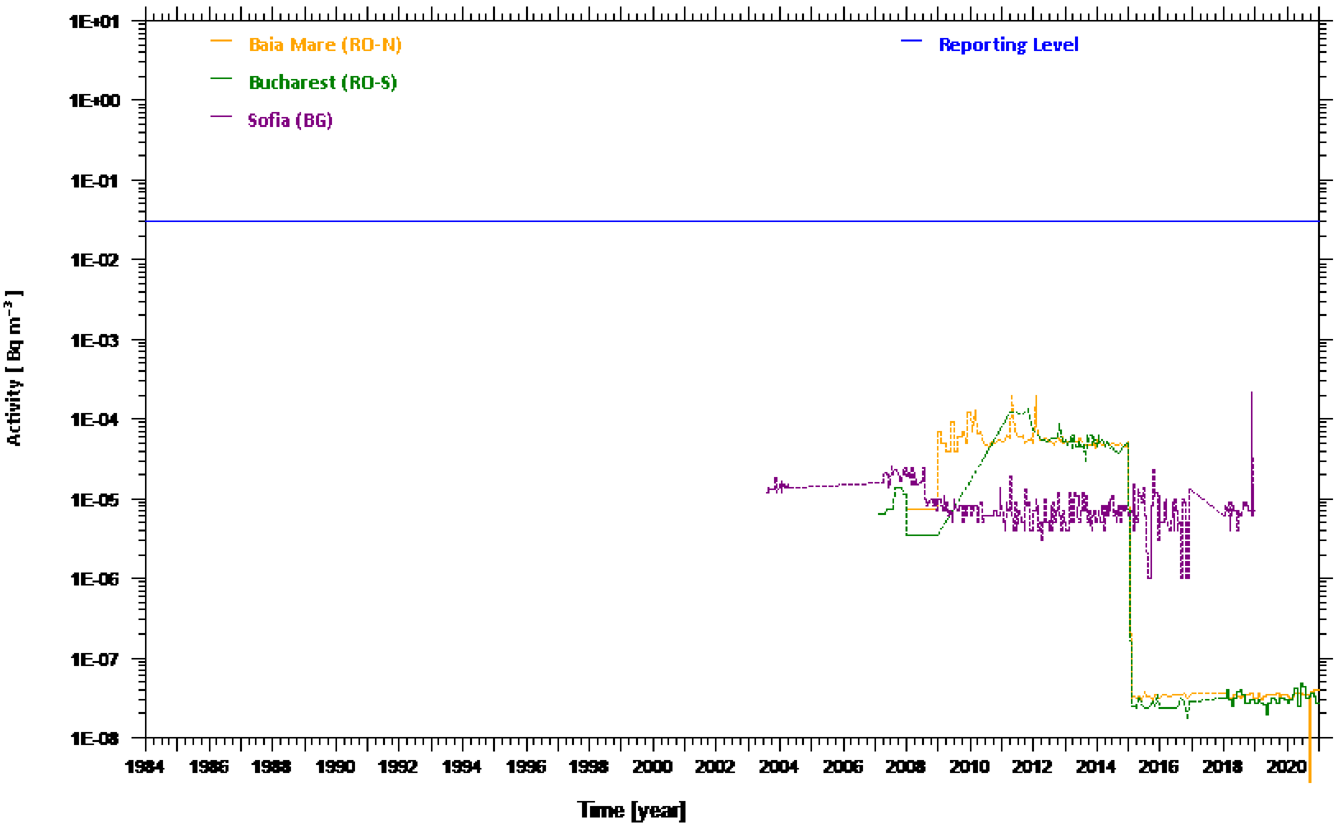


Fig. A29 Activity trends for ^{137}Cs in airborne particulates (Baia Mare, Bucharest and Sofia)



Activity trends

SAMPLE TYPE : airborne particulates (Bq m^{-3})

NUCLIDE CATEGORY : caesium-137 (^{137}Cs)

Fig. A30 Activity trends for ^{137}Cs in airborne particulates (Barcelona, Bilbao and Madrid)

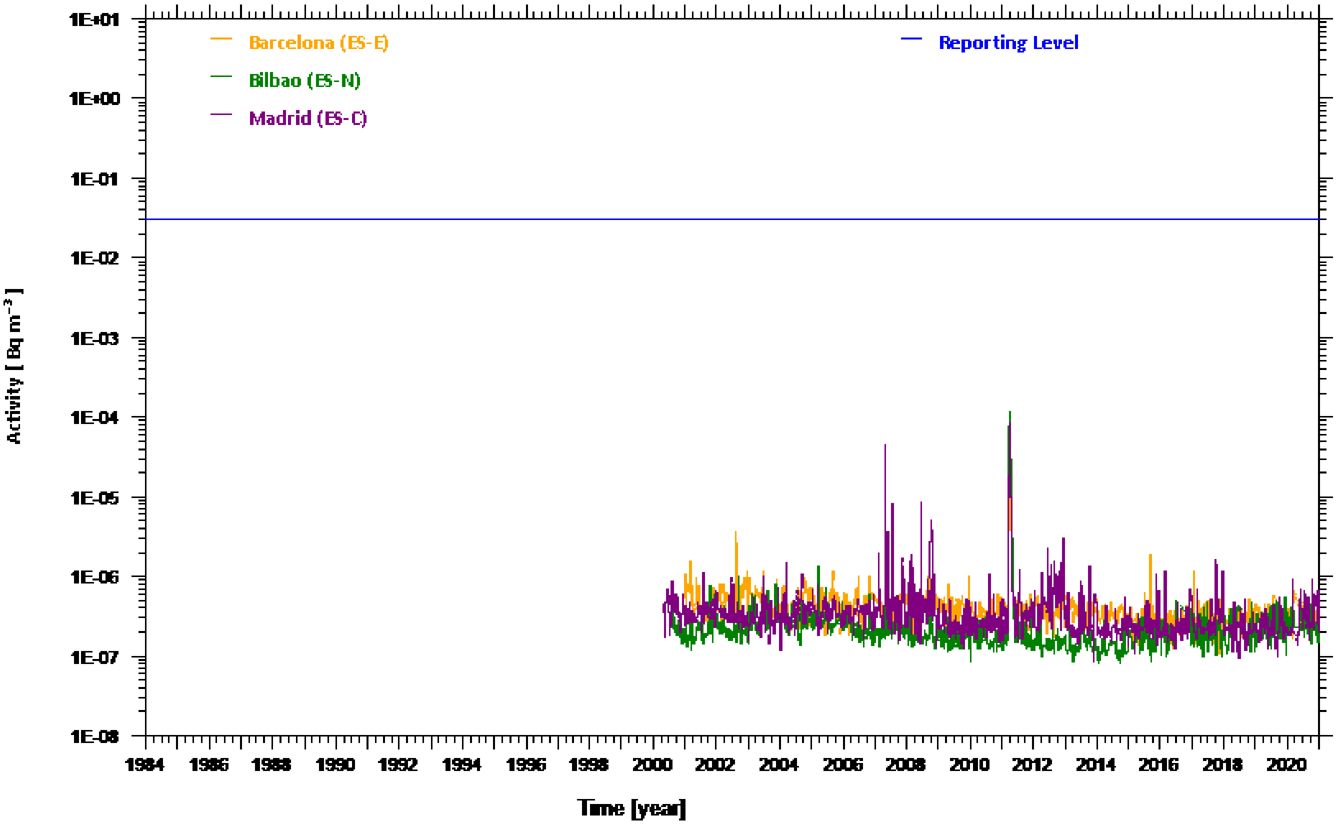


Fig. A31 Activity trends for ^{137}Cs in airborne particulates (Milan and Seyne-sur-Mer)

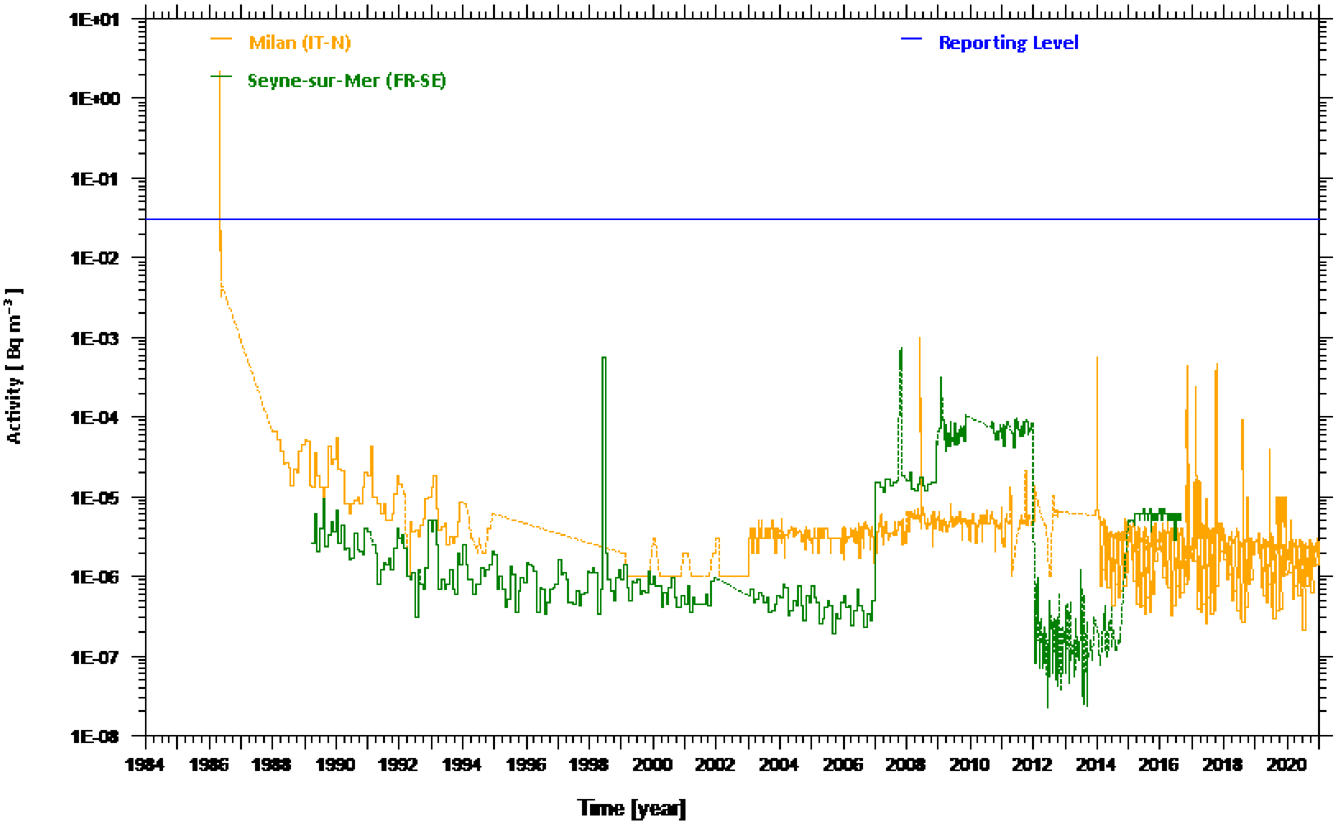


Fig. A32 Activity trends for ^{137}Cs in airborne particulates (La Laguna-Tenerife, Sacavém and Sevilla)

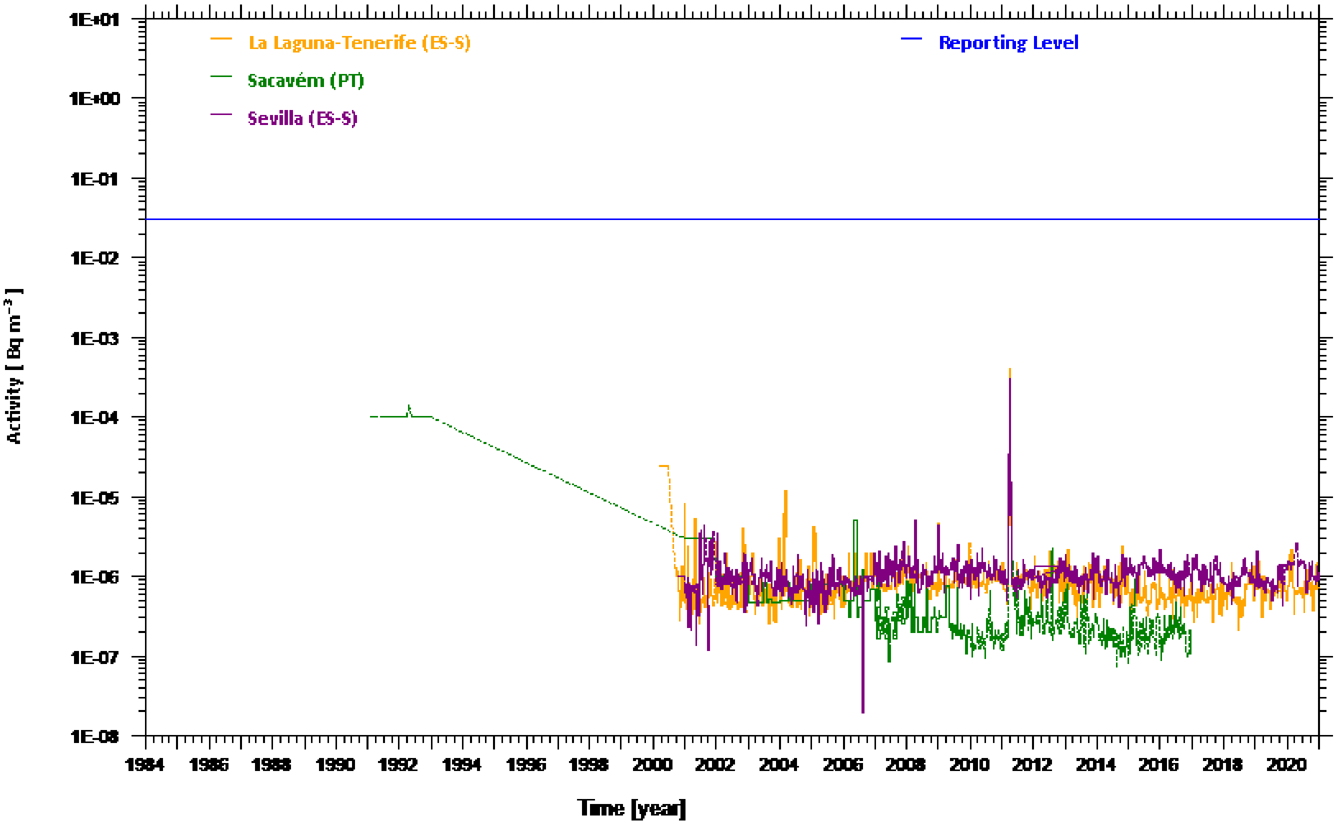


Fig. A33 Activity trends for ^{137}Cs in airborne particulates (Brindisi, Paola and Nicosia)

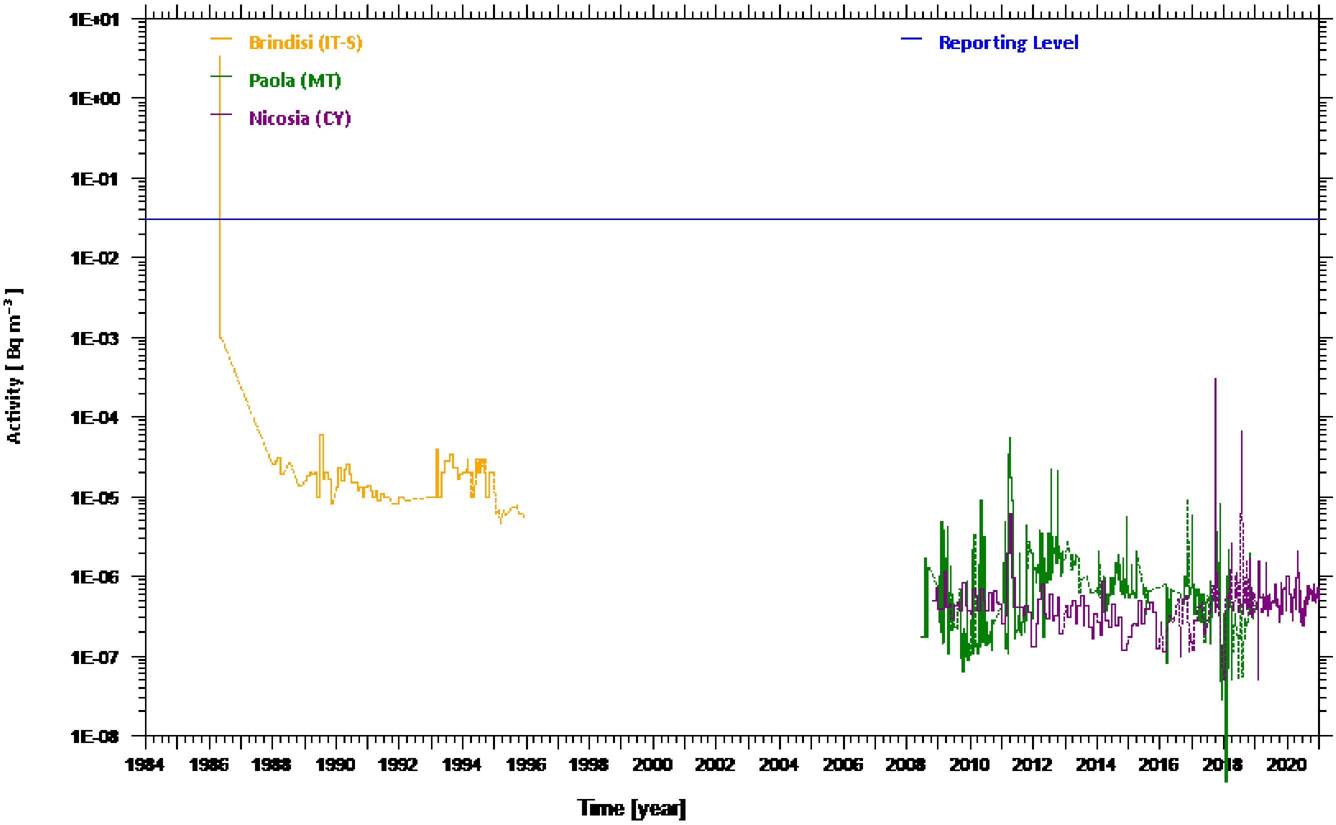


Fig. A34 Activity trends for ^{137}Cs in airborne particulates (Umeå, Kista and Risø)

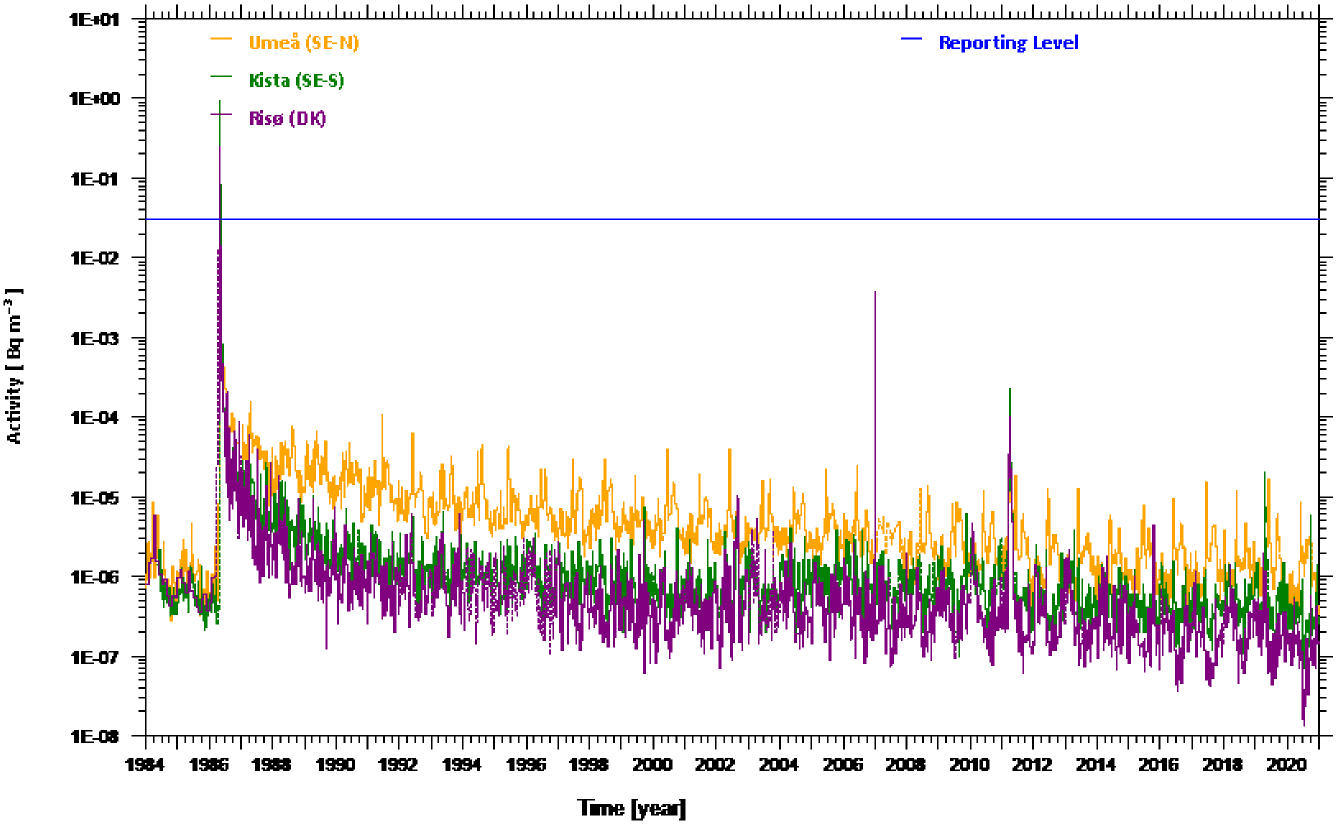


Fig. A35 Activity trends for ^{137}Cs in airborne particulates (Harku, Utena and Baldone; radons)

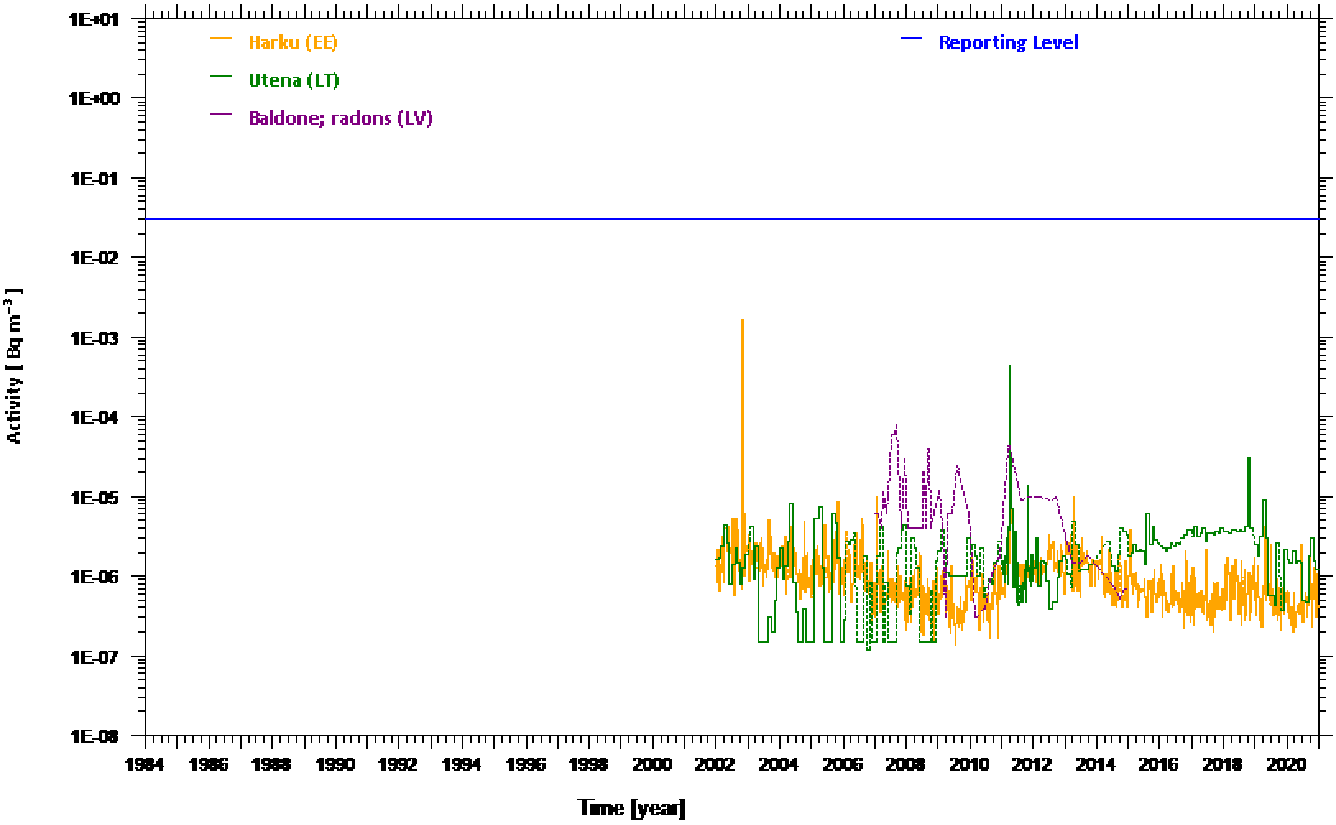


Fig. A36 Activity trends for ^{137}Cs in airborne particulates (Chilton, Lerwick and Clonskeagh)

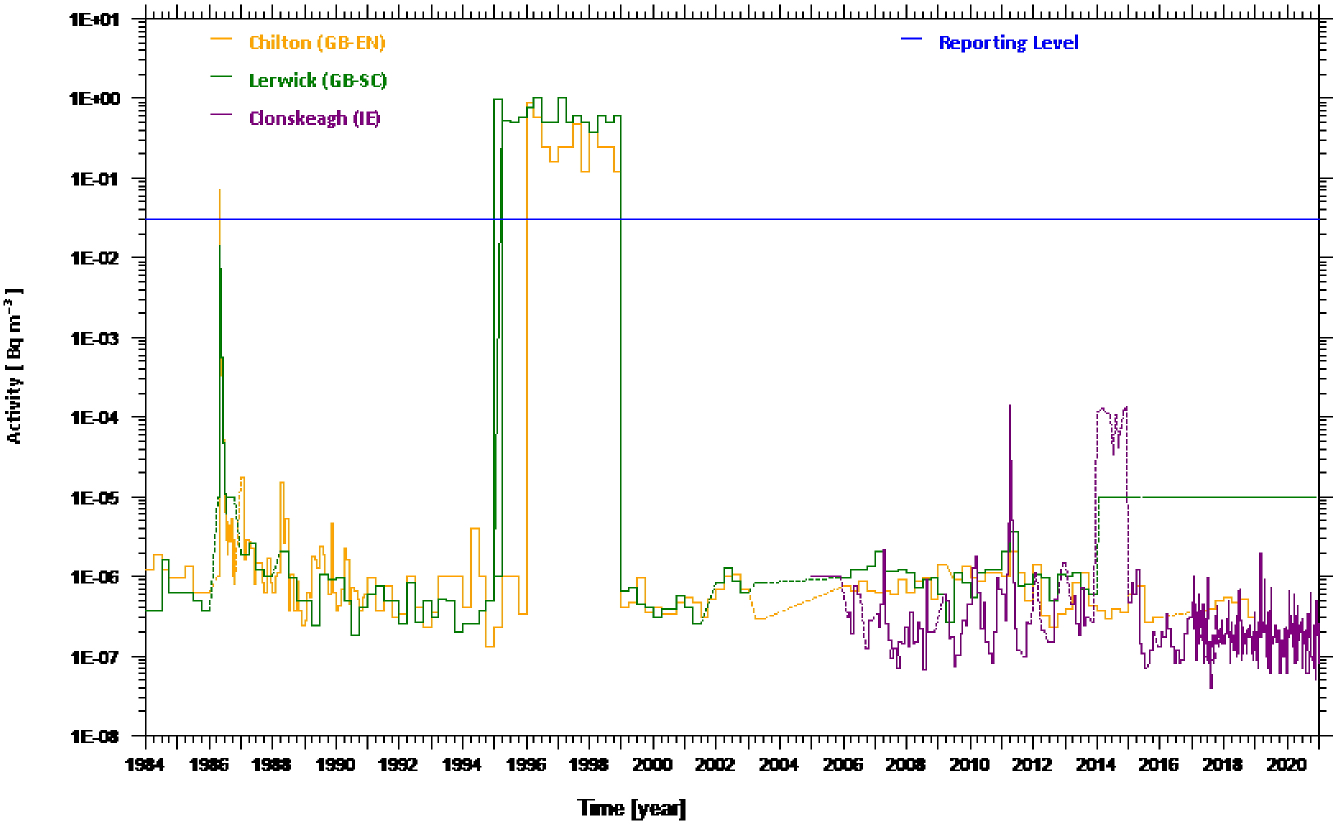
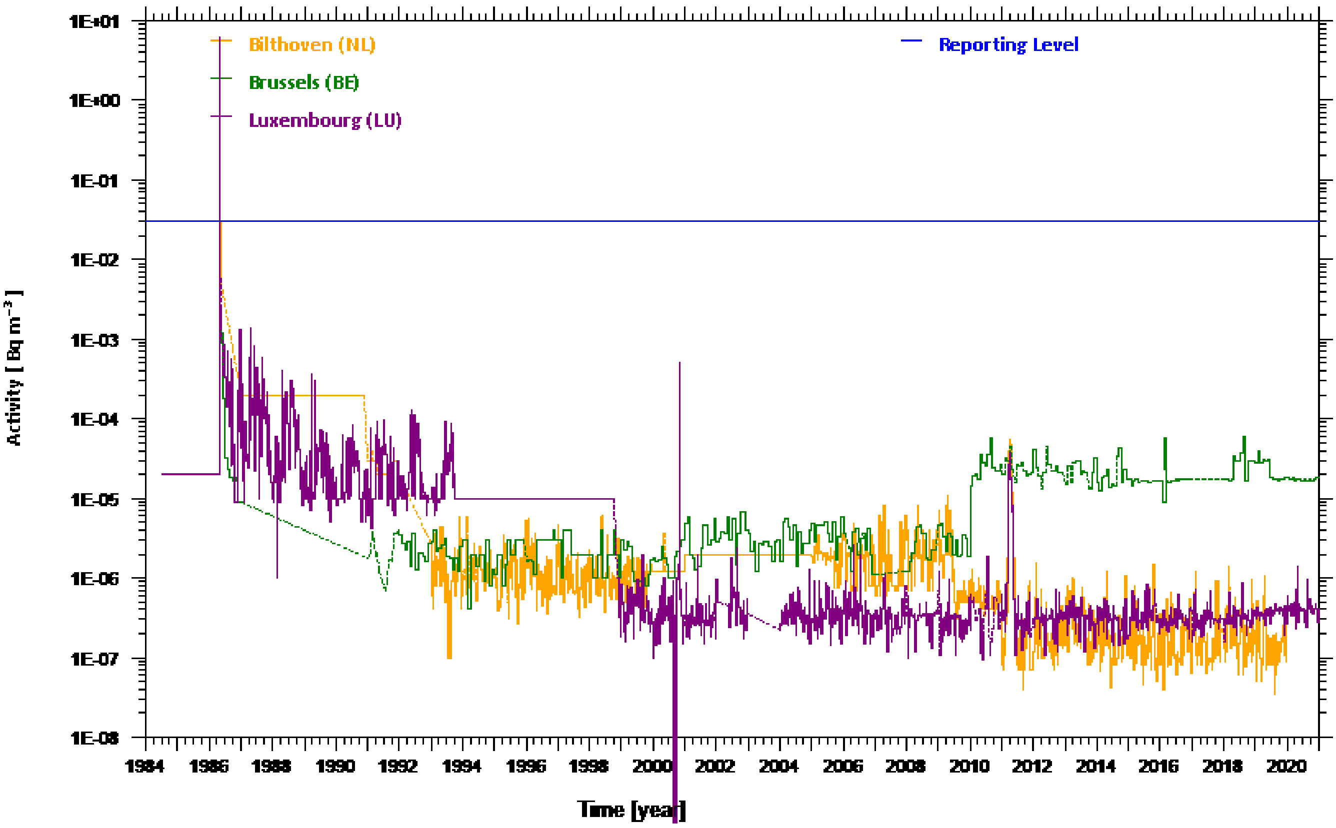


Fig. A37 Activity trends for ^{137}Cs in airborne particulates (Bilthoven, Brussels and Luxembourg)



SPARSE

Activity trends

SAMPLE TYPE : **airborne particulates (Bq m^{-3})**

NUCLIDE CATEGORY : **caesium-137 (^{137}Cs)**

Fig. A38 Activity trends for ^{137}Cs in airborne particulates (Braunschweig, Offenbach and Berlin)

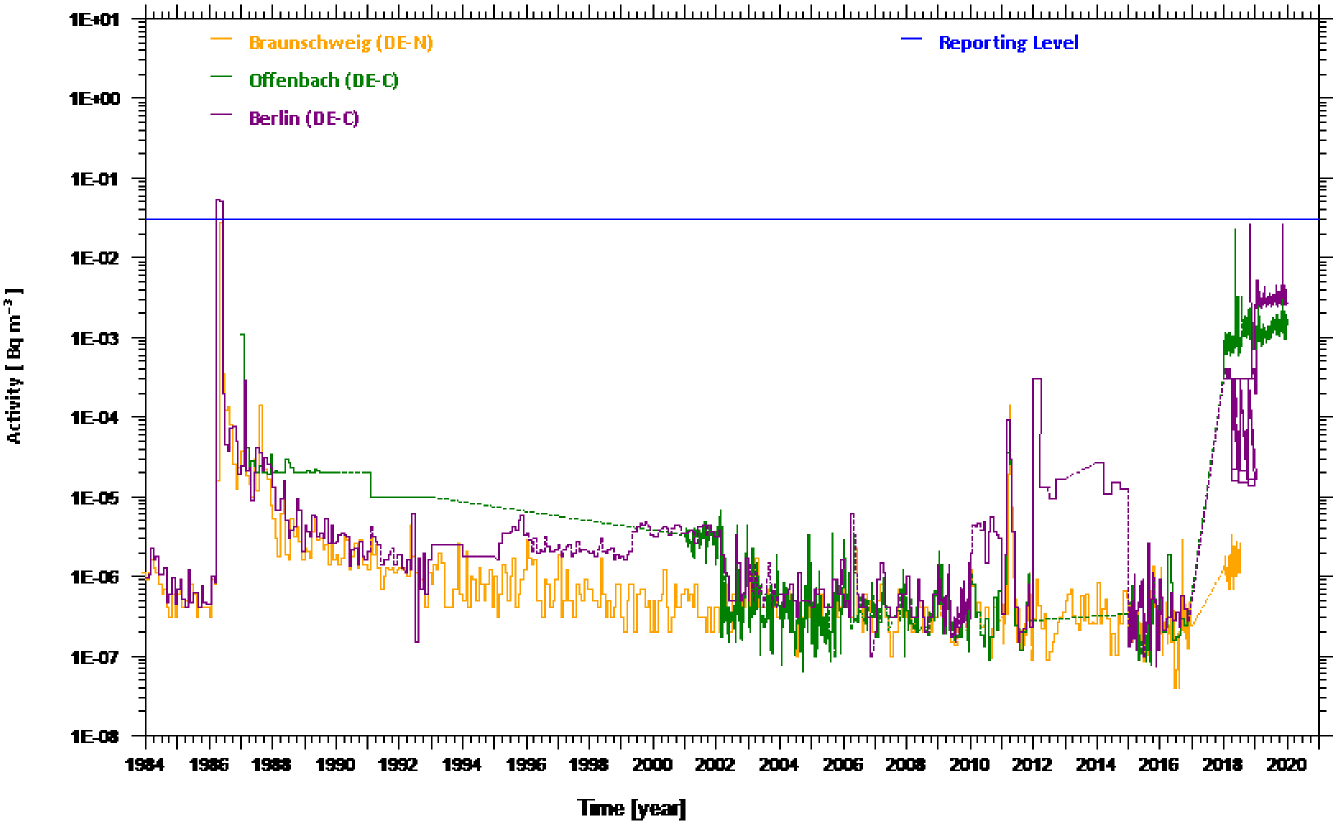


Fig. A39 Activity trends for ^{137}Cs in airborne particulates (Warsaw, Cracow and Prague)

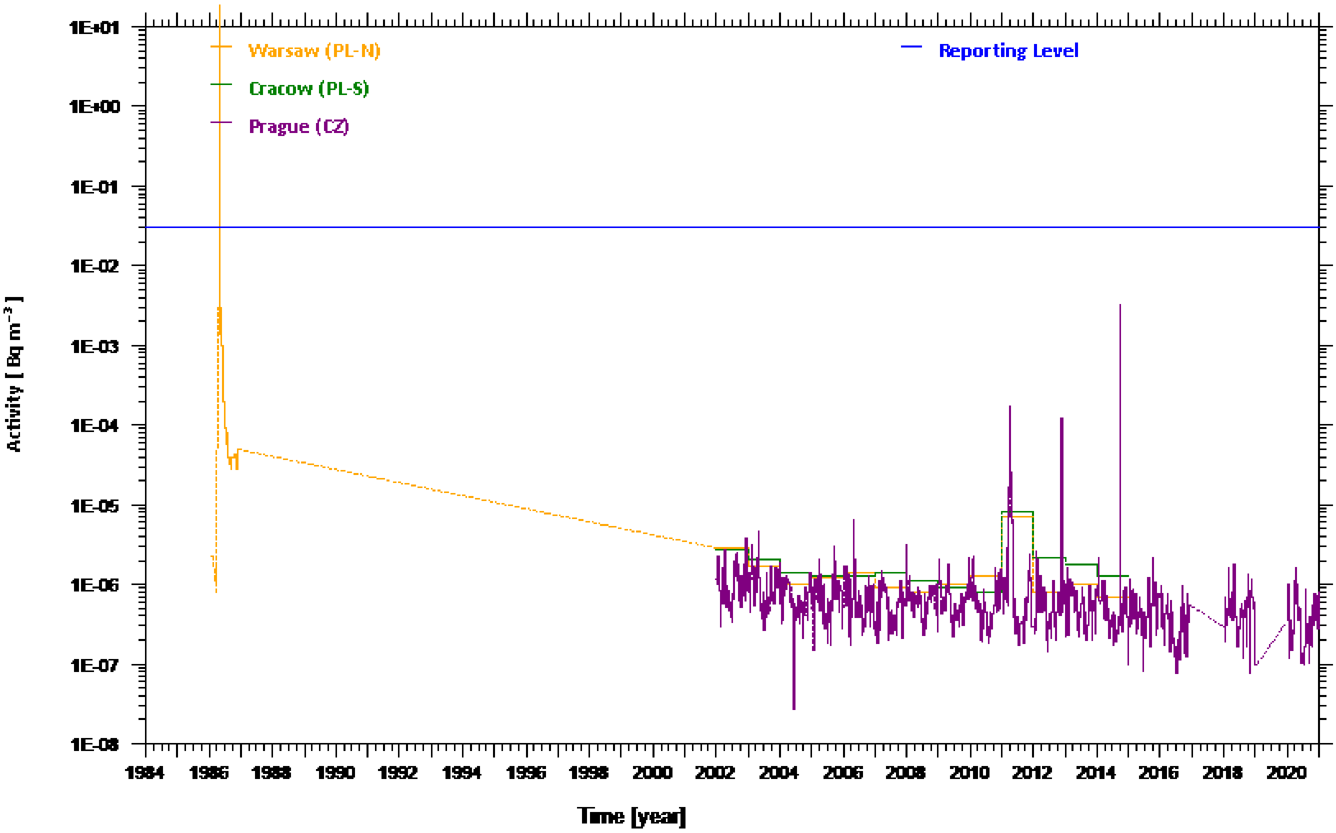


Fig. A40 Activity trends for ^{137}Cs in airborne particulates (Freiburg, Ljubljana and Muenchen-Neuherberg)

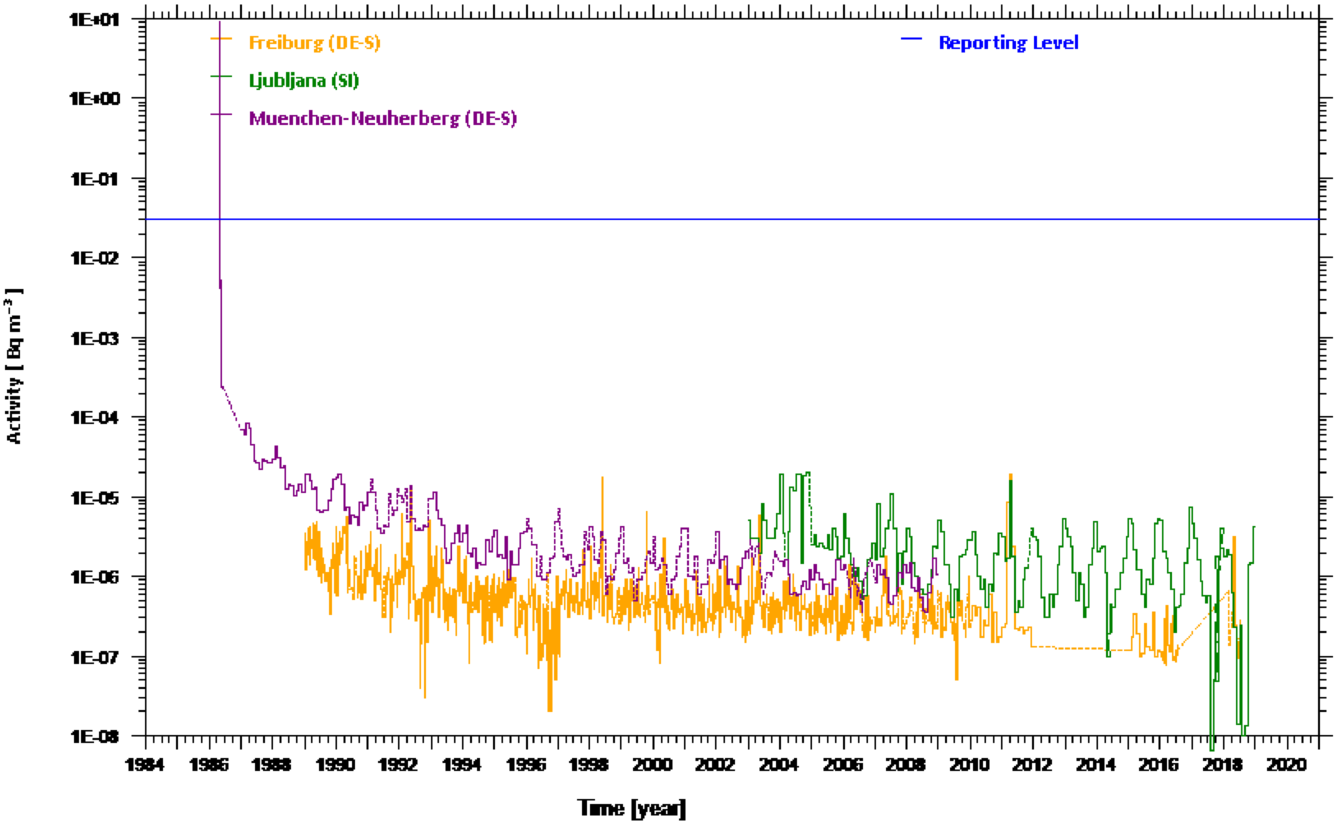


Fig. A41 Activity trends for ^{137}Cs in airborne particulates (Vienna-Ages, Bratislava and Budapest-Nrirr)

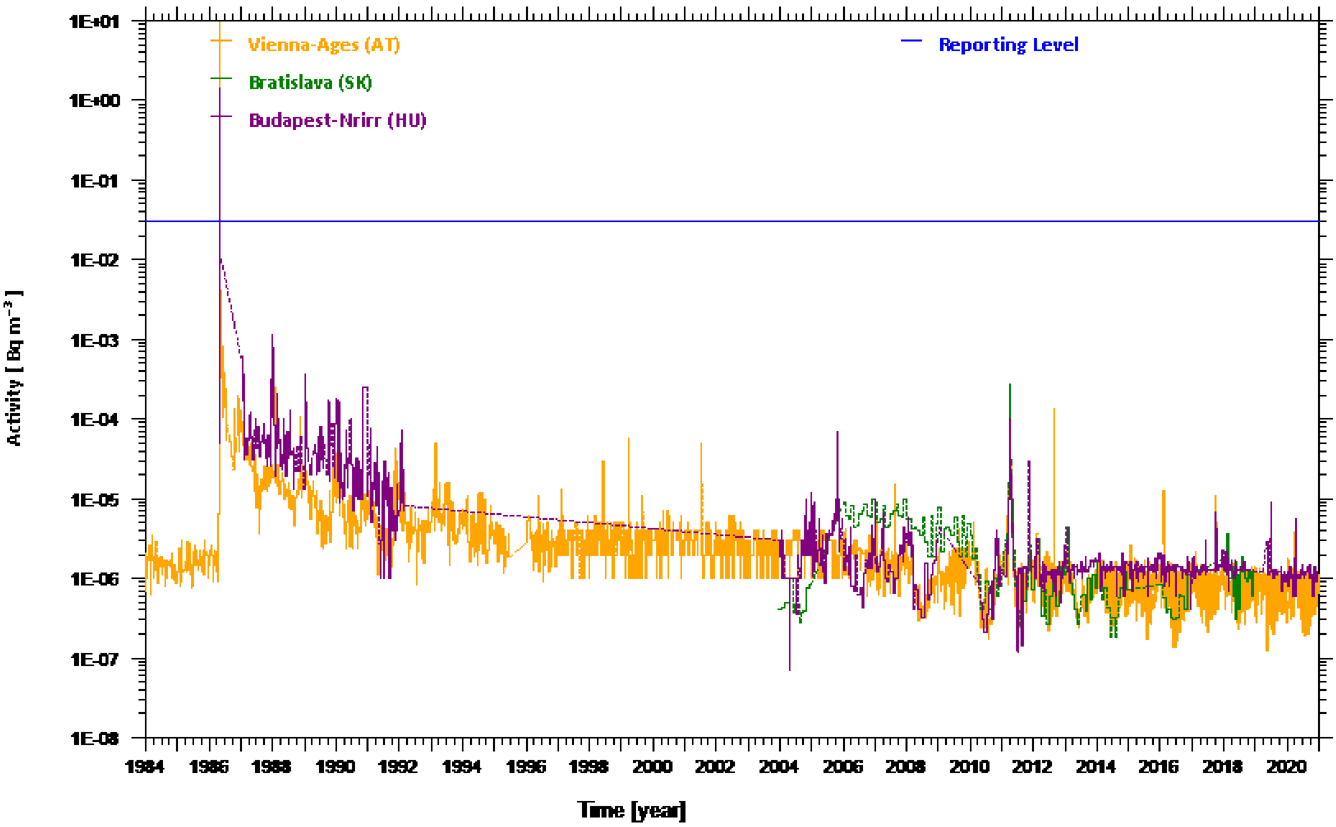
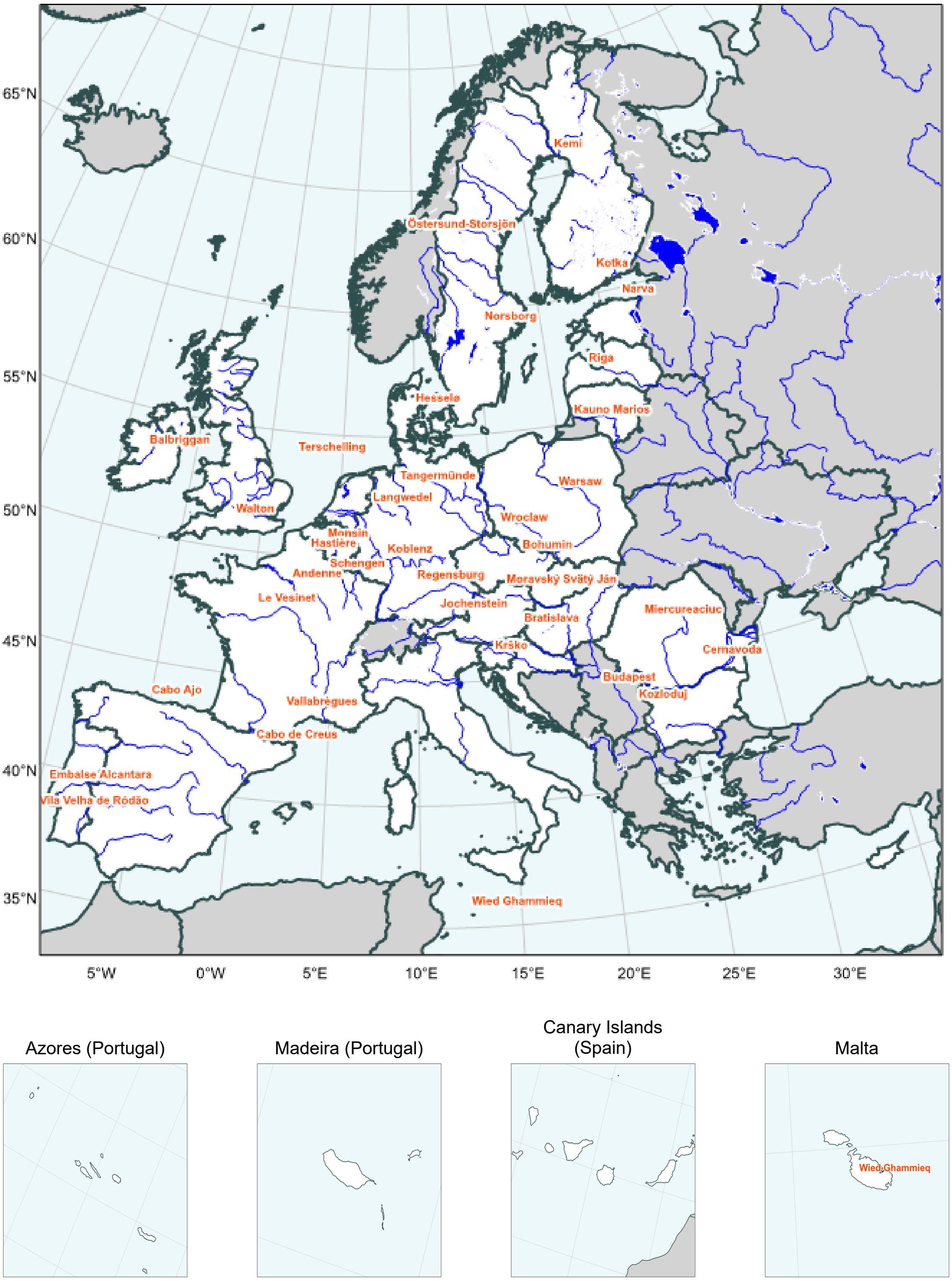


Fig. S27

Sampling locations for ^{137}Cs in surface water considered in Figures S28 – S42



SPARSE

Activity trends

SAMPLE TYPE : surface water (Bq l $^{-1}$)

NUCLIDE CATEGORY : caesium-137 (^{137}Cs)

Fig. S28 Activity trends for ^{137}Cs in surface water (Langwedel, Koblenz and Tangermünde)

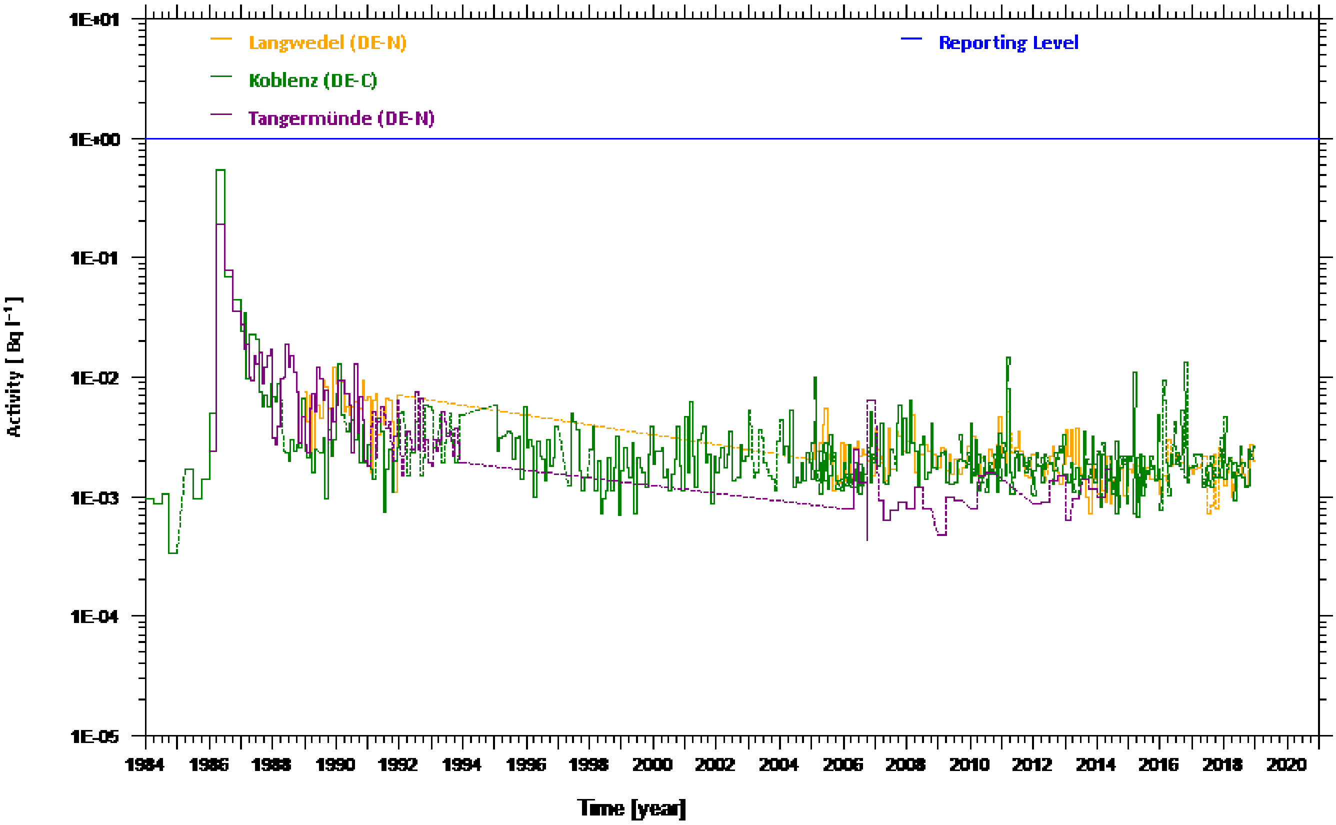
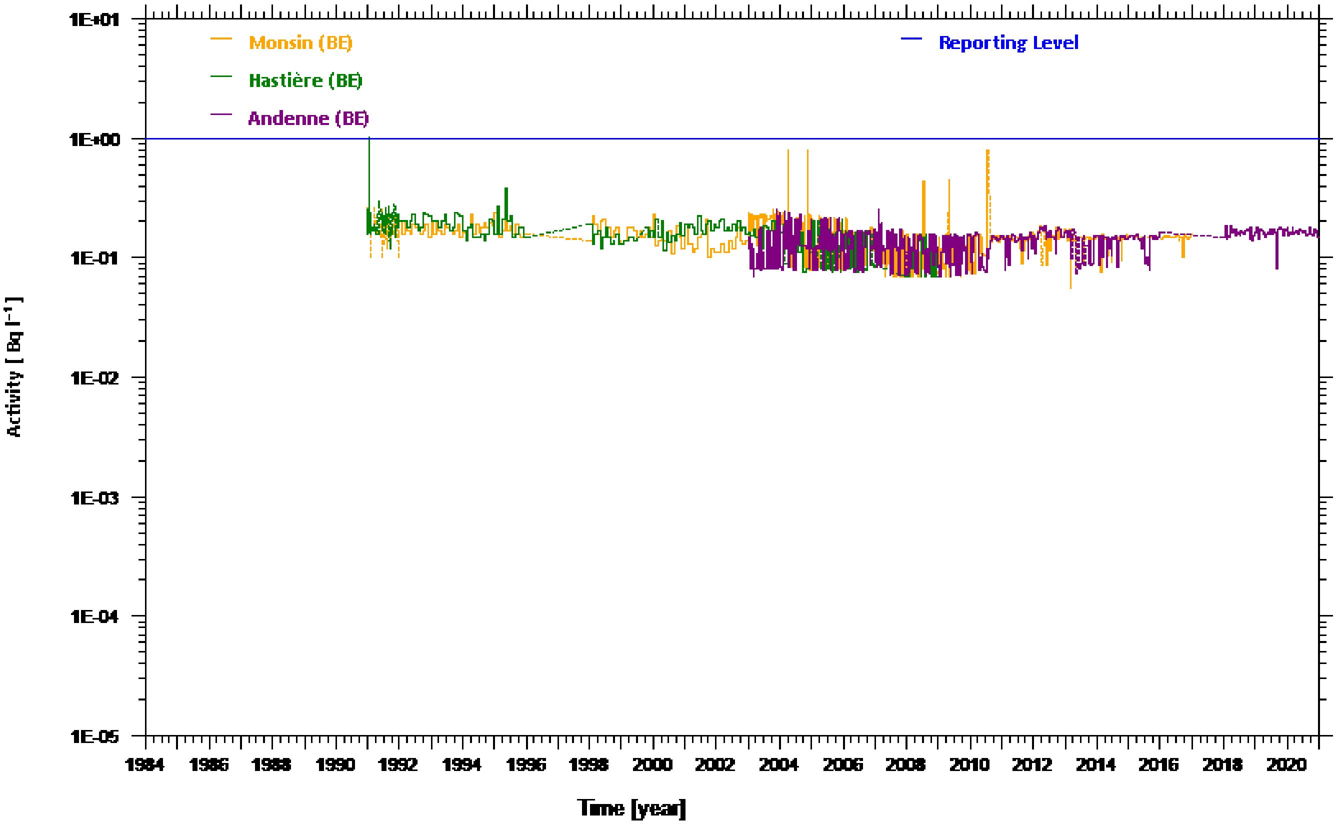


Fig. S29 Activity trends for ^{137}Cs in surface water (Monsin, Hastière and Andenne)



Activity trends

SAMPLE TYPE	:	surface water (Bq l $^{-1}$)
NUCLIDE CATEGORY	:	caesium-137 (^{137}Cs)

SPARSE

Fig. S30 Activity trends for ^{137}Cs in surface water (Warsaw, Wroclaw and Bohumin)

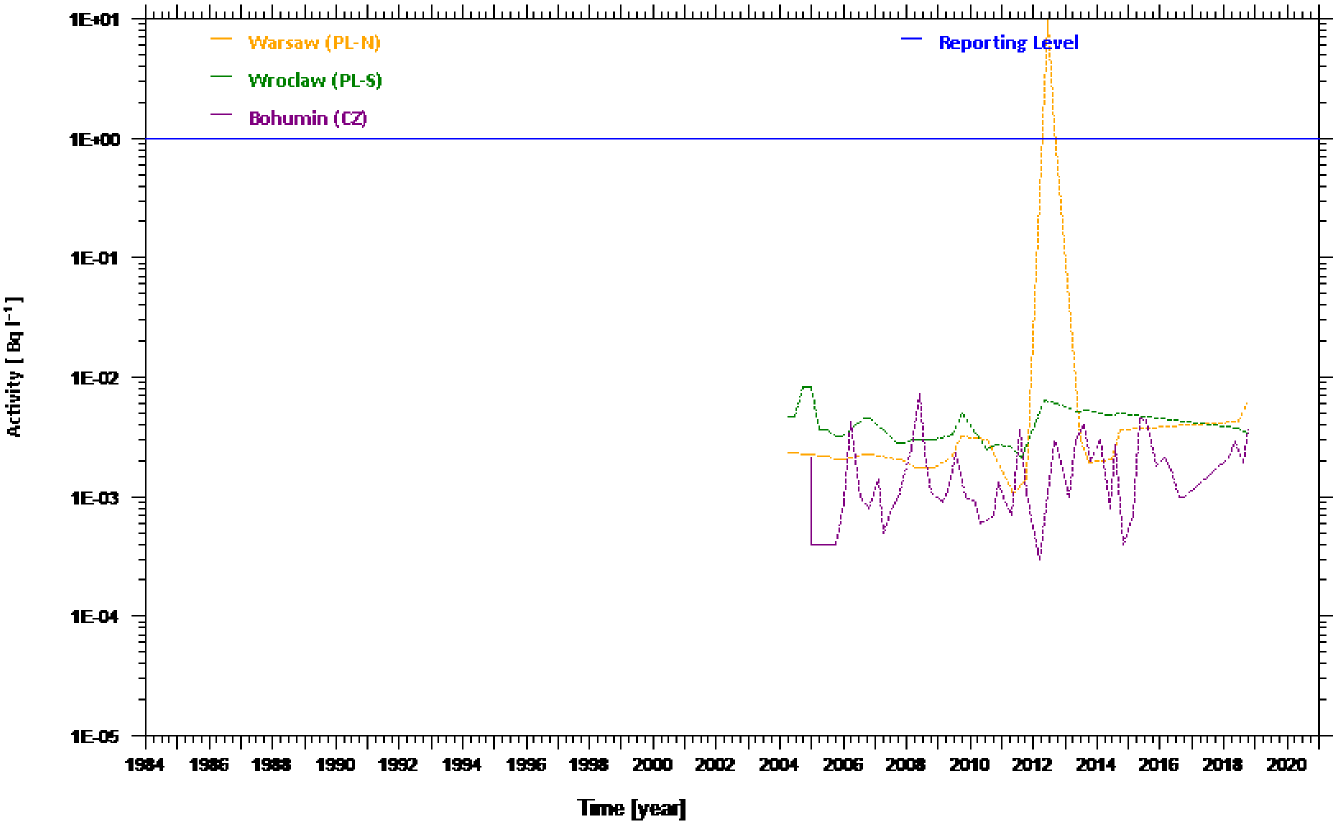


Fig. S31 Activity trends for ^{137}Cs in surface water (Le Vesinet, Vallabrègues and Schengen)

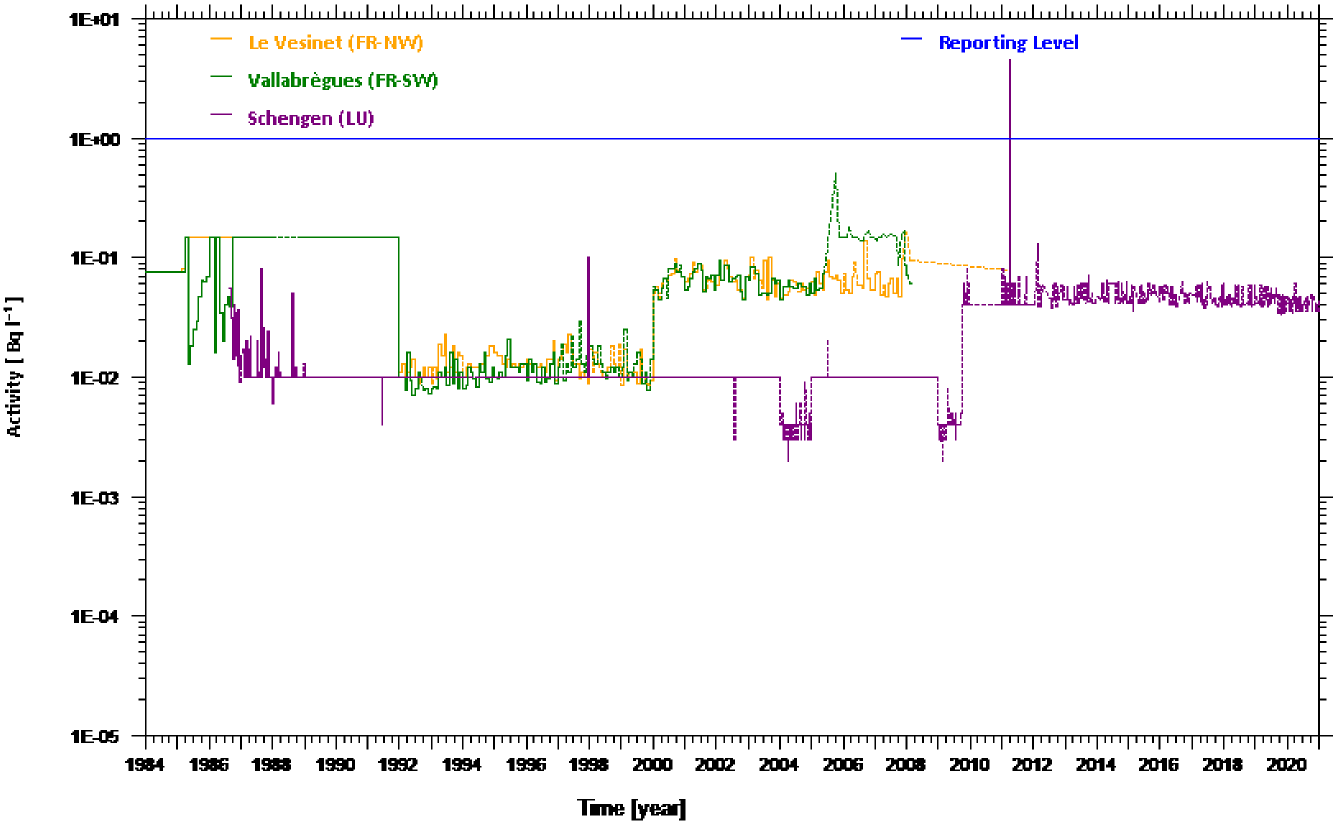


Fig. S32 Activity trends for ^{137}Cs in surface water (Walton and Balbriggan)

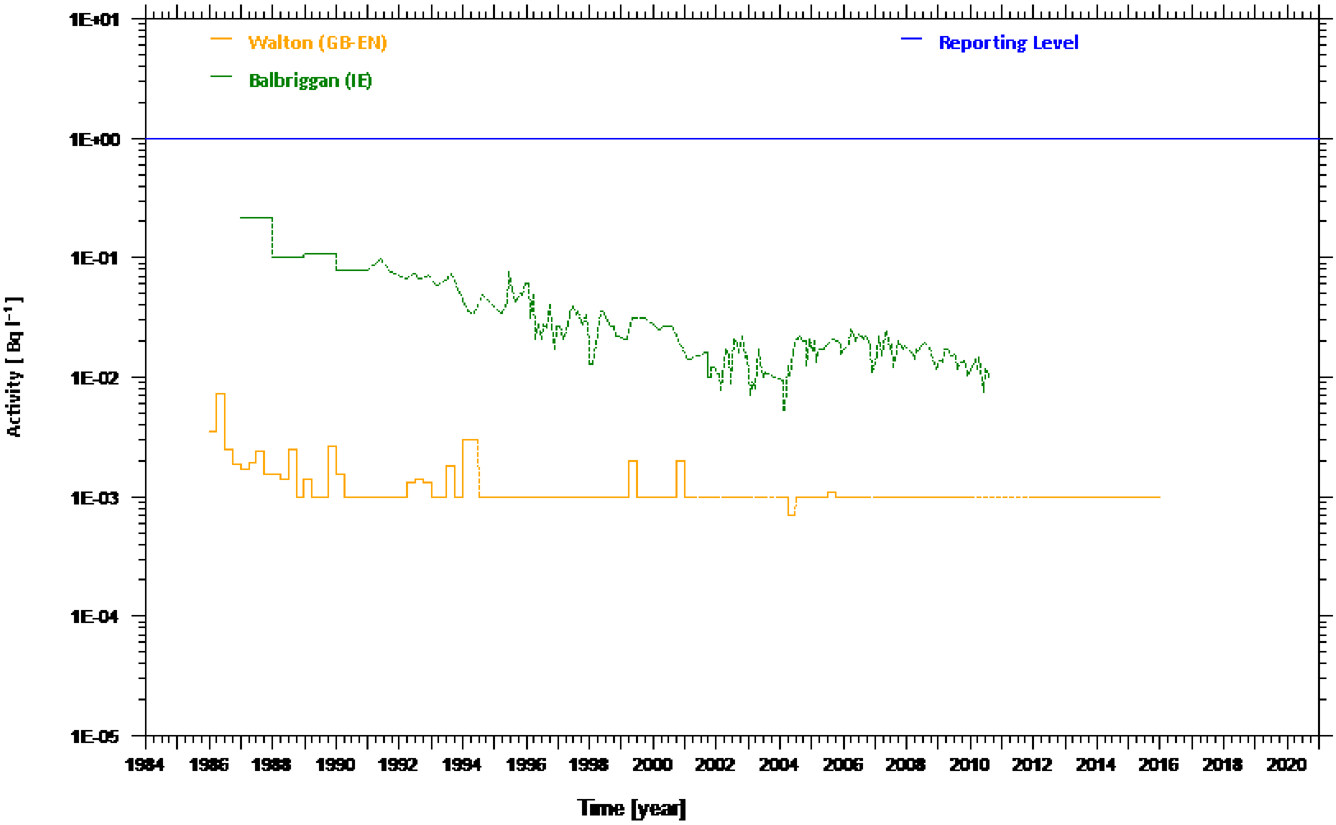


Fig. S33 Activity trends for ^{137}Cs in surface water (Regensburg, Jochenstein and Budapest)

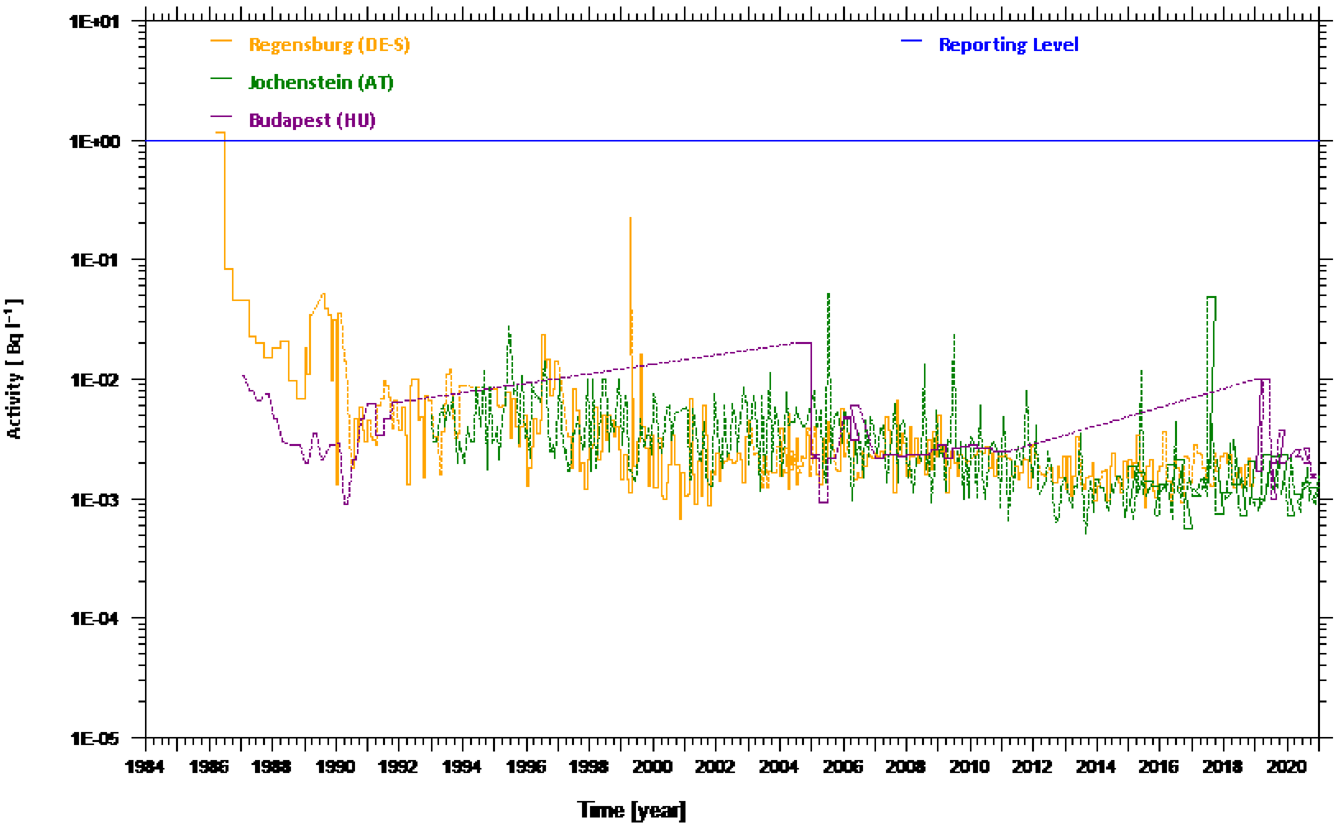


Fig. S34 Activity trends for ^{137}Cs in surface water (Bratislava and Moravský Svätý Ján)

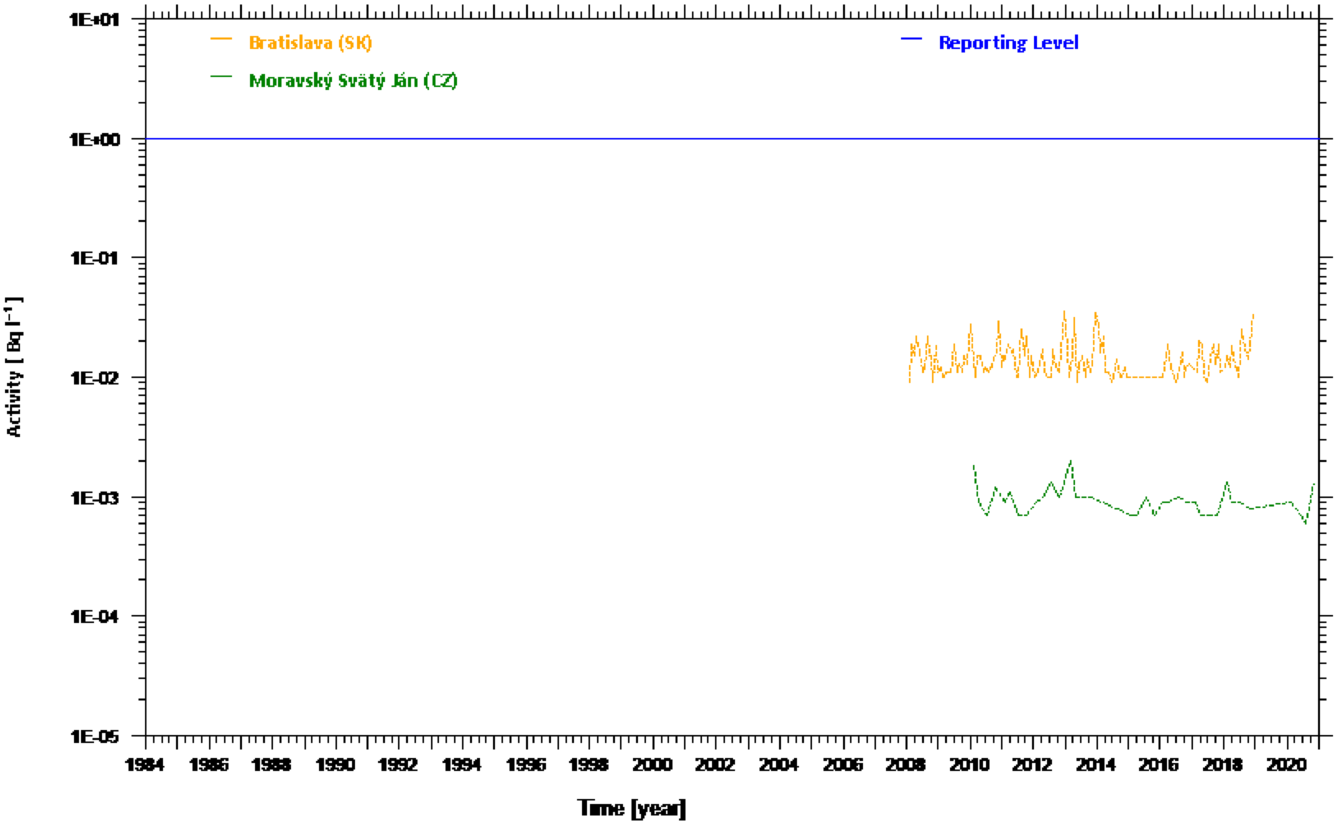
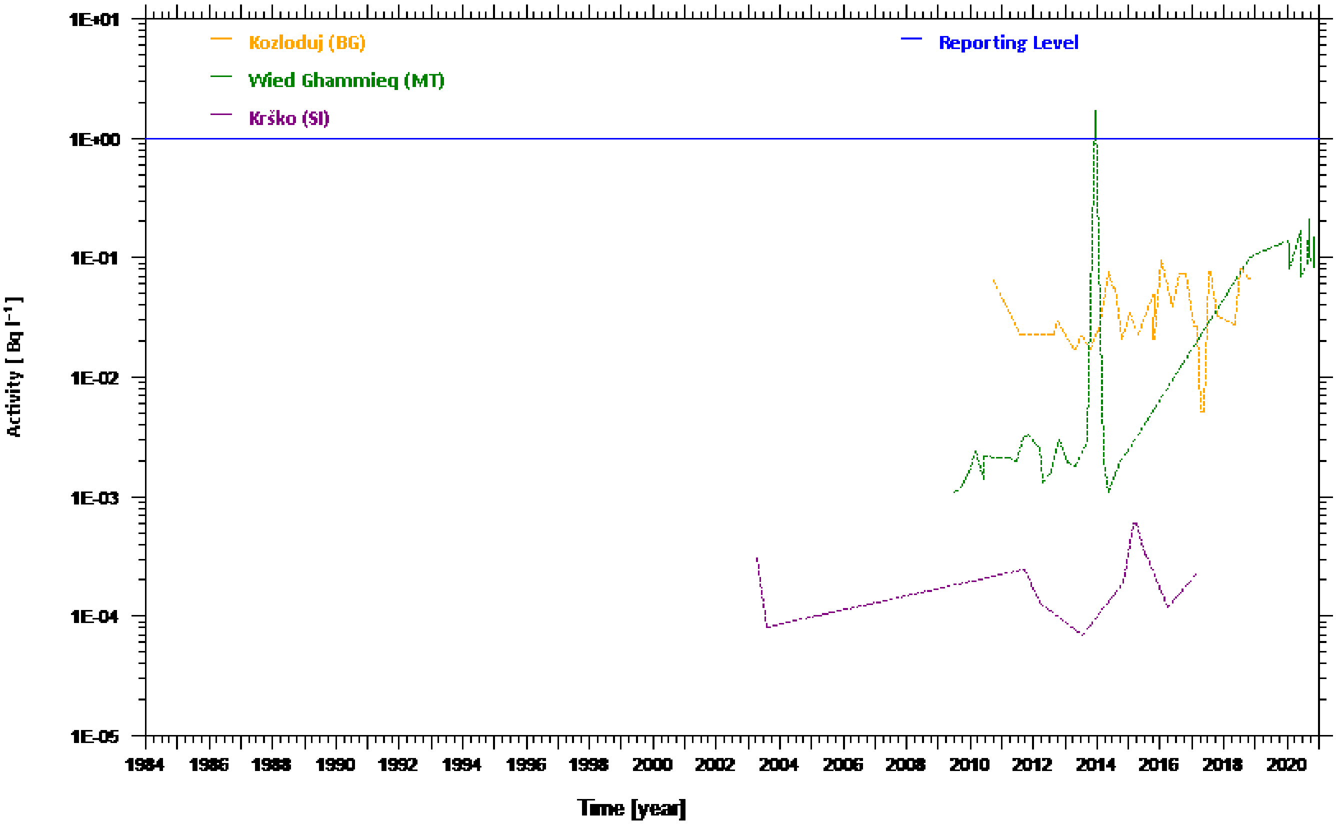


Fig. S35 Activity trends for ^{137}Cs in surface water (Kozloduj, Wied Ghammieq and Krško)



SPARSE

Activity trends

SAMPLE TYPE : surface water (Bq l $^{-1}$)

NUCLIDE CATEGORY : caesium-137 (^{137}Cs)

Fig. S36 Activity trends for ^{137}Cs in surface water (Cabo Ajo and Cabo de Creus)

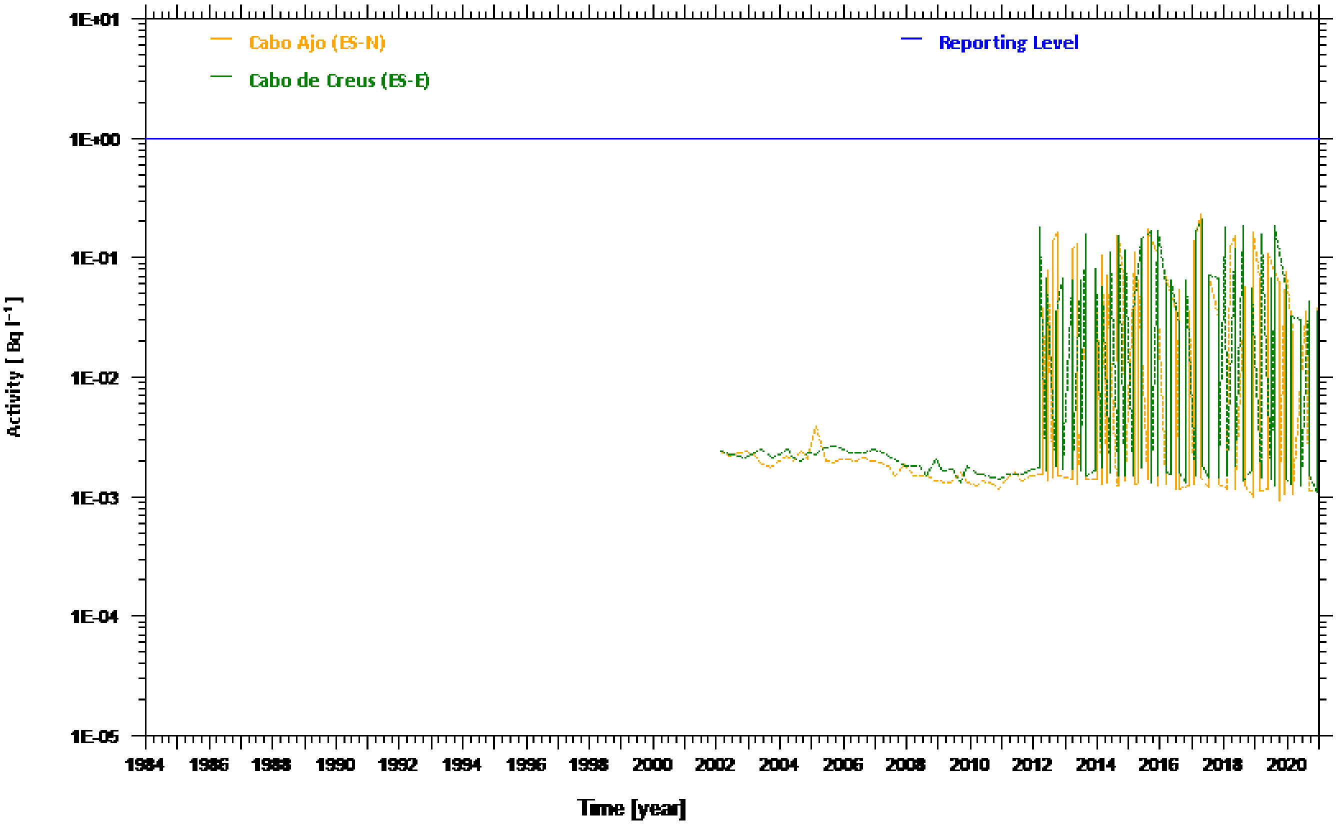


Fig. S37 Activity trends for ^{137}Cs in surface water (Embalse Alcantara and Vila Velha de Ródão)

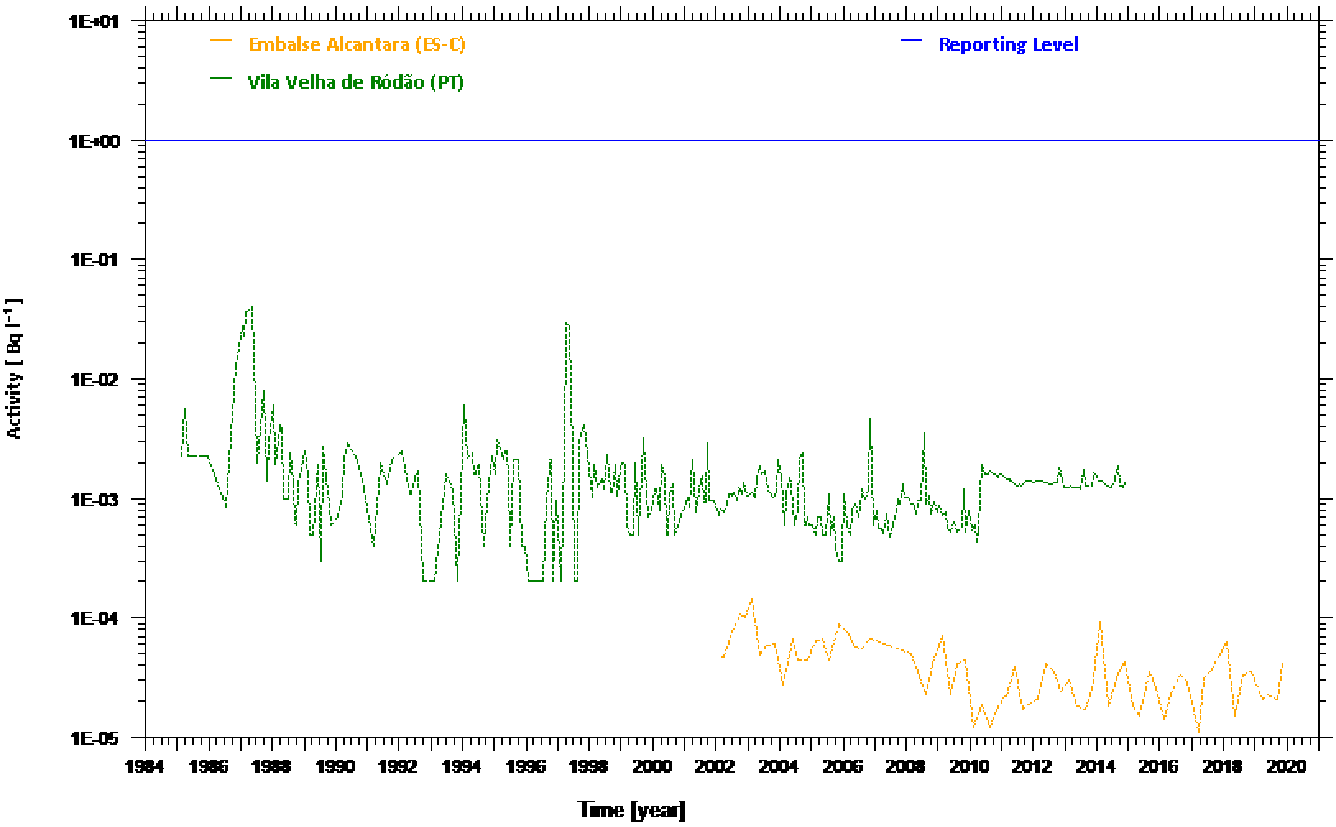


Fig. S38 Activity trends for ^{137}Cs in surface water (Cernavoda and Miercureaciuc)

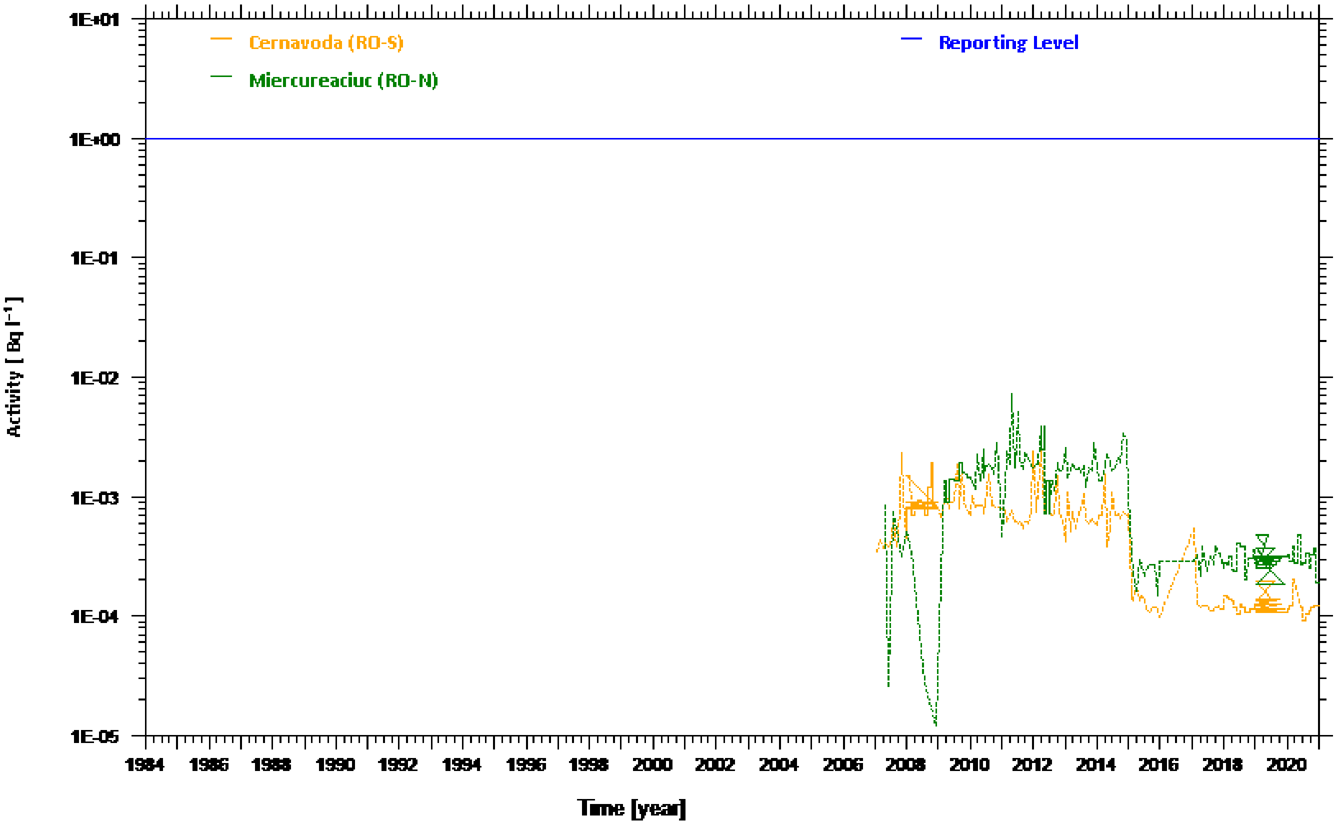


Fig. S39 Activity trends for ^{137}Cs in surface water (Norsborg and Östersund-Storsjön)

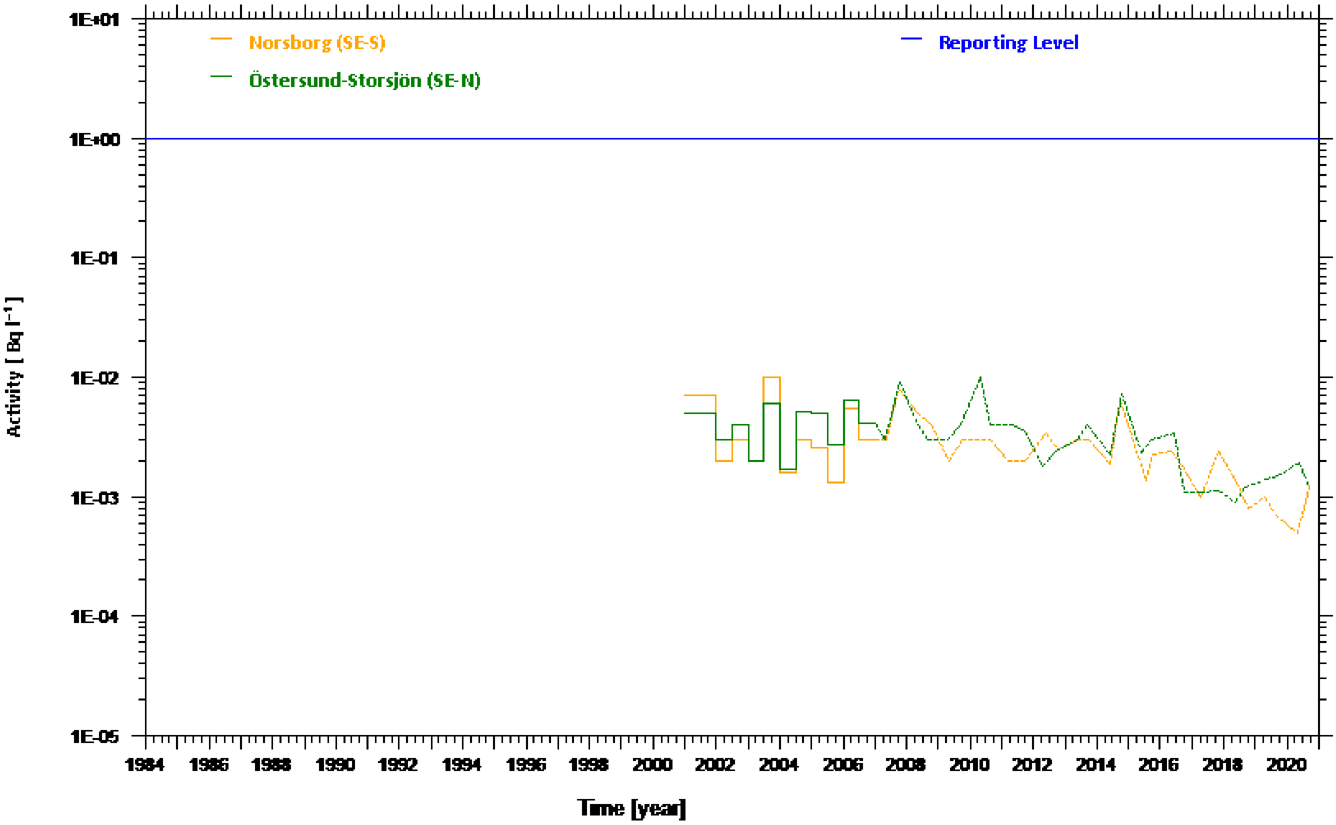


Fig. S40 Activity trends for ^{137}Cs in surface water (Kemi and Kotka)

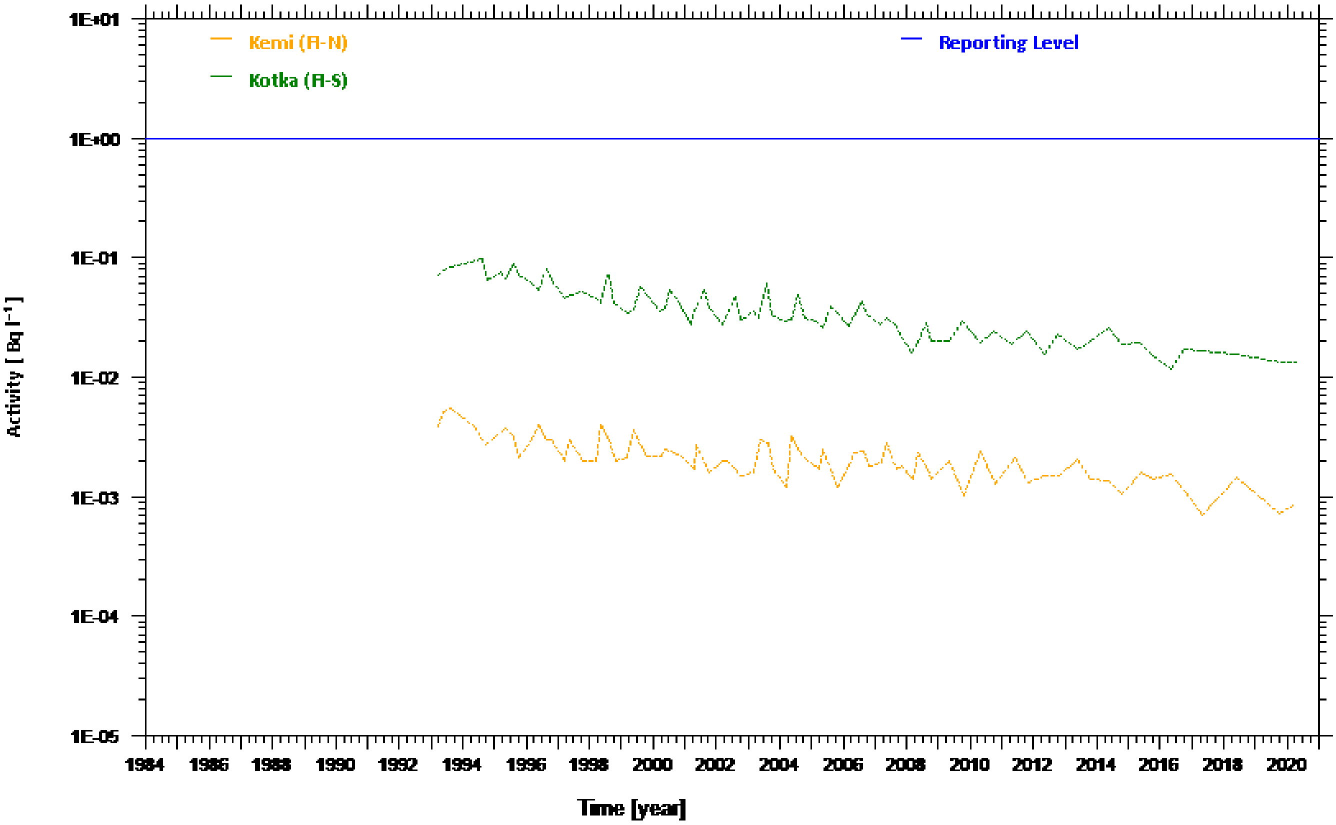
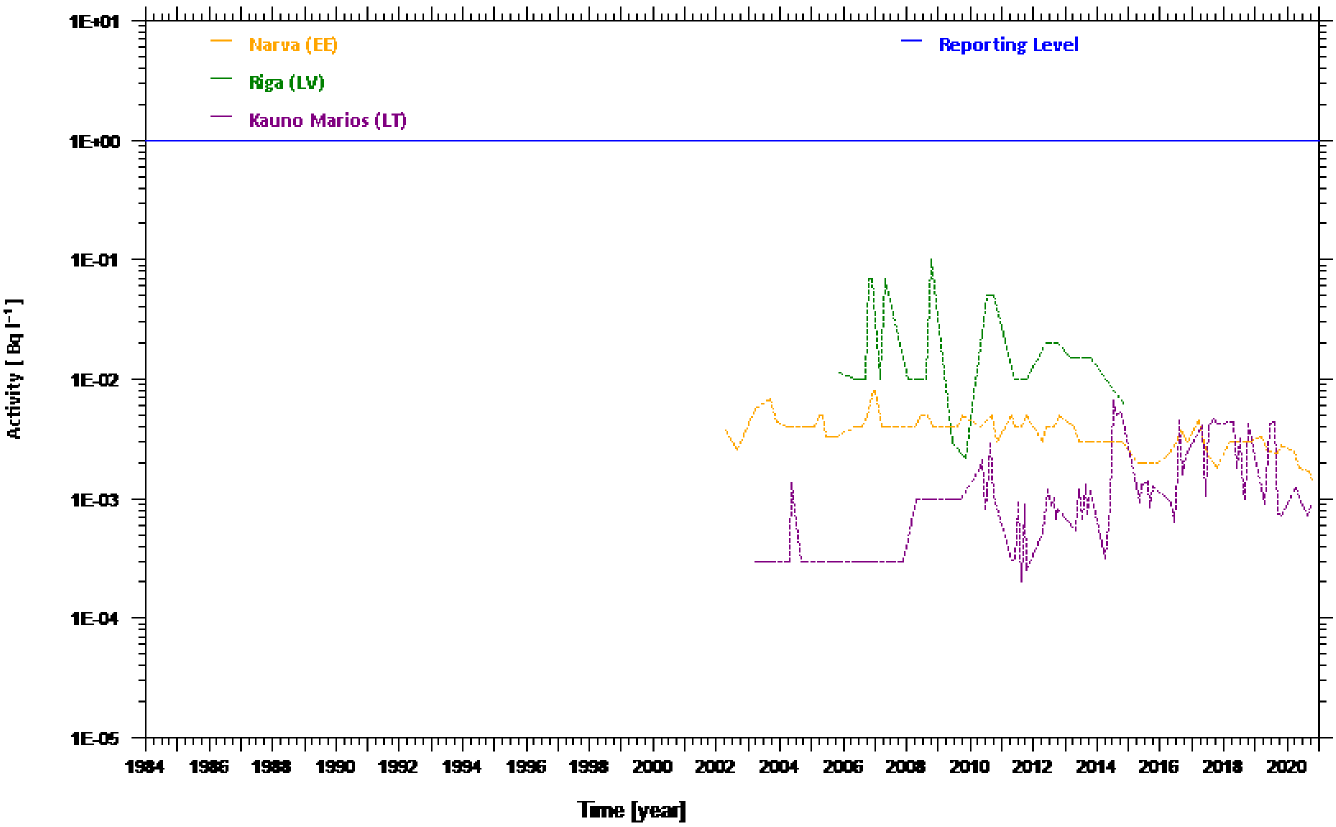


Fig. S41 Activity trends for ^{137}Cs in surface water (Narva, Riga and Kauno Marios)



Activity trends
SAMPLE TYPE : surface water (Bq l $^{-1}$)
NUCLIDE CATEGORY : caesium-137 (^{137}Cs)

SPARSE

Fig. S42 Activity trends for ^{137}Cs in surface water (Hesselø and Terschelling)

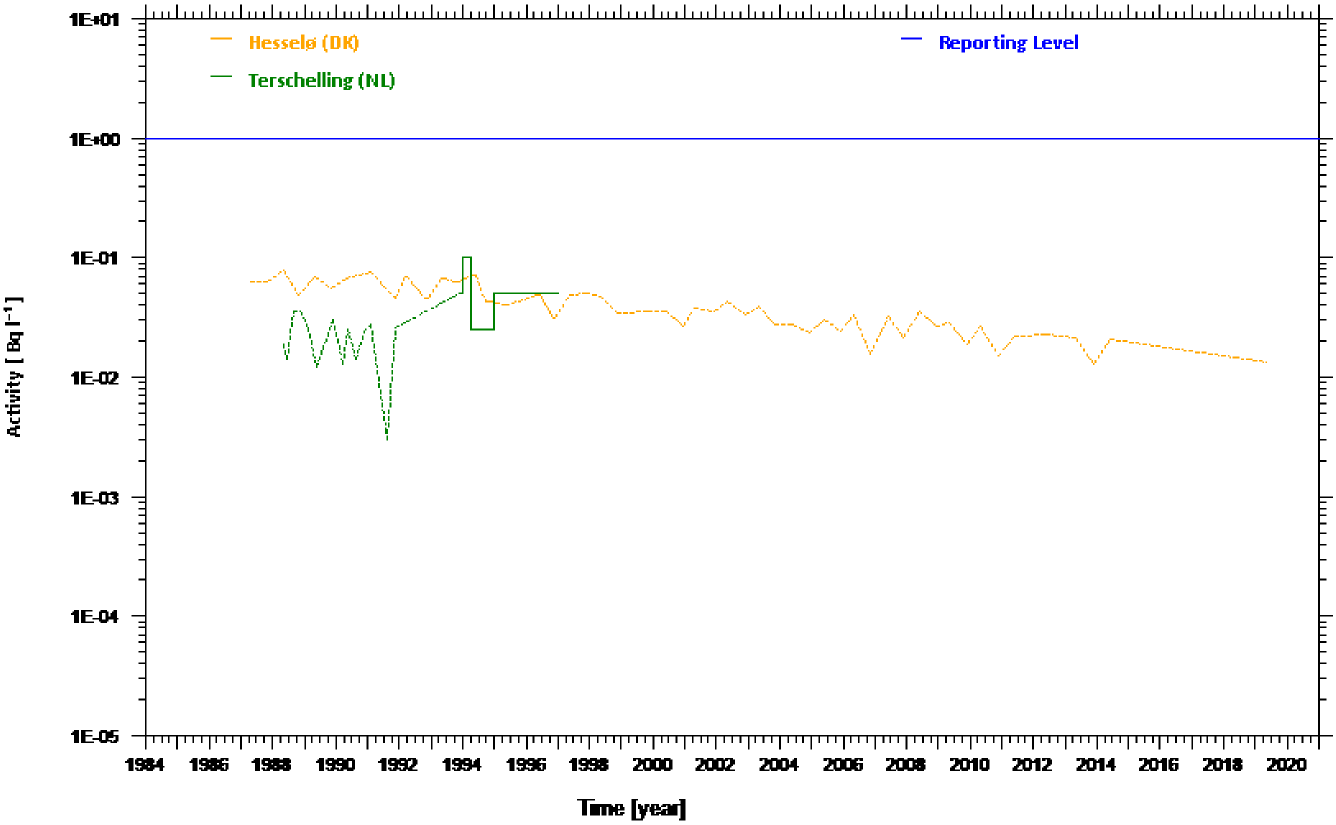


Fig. W19

Sampling locations for ^{3}H, ^{90}Sr and ^{137}Cs in drinking water considered in Figures W20 – W54

Fig. W20 Activity trends for ³H in drinking water (Rovaniemi and Helsinki)

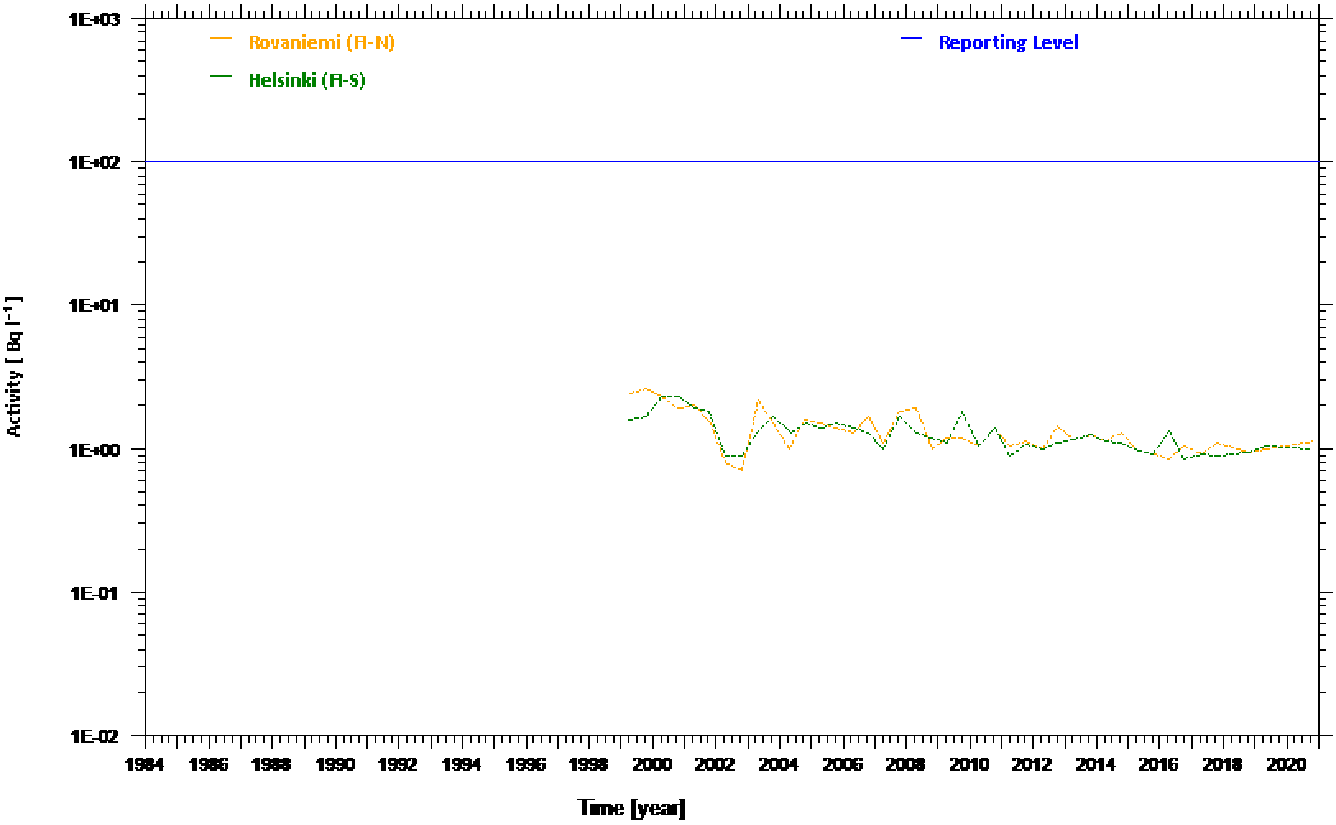


Fig. W21 Activity trends for ³H in drinking water (Ljubljana and Sliema)

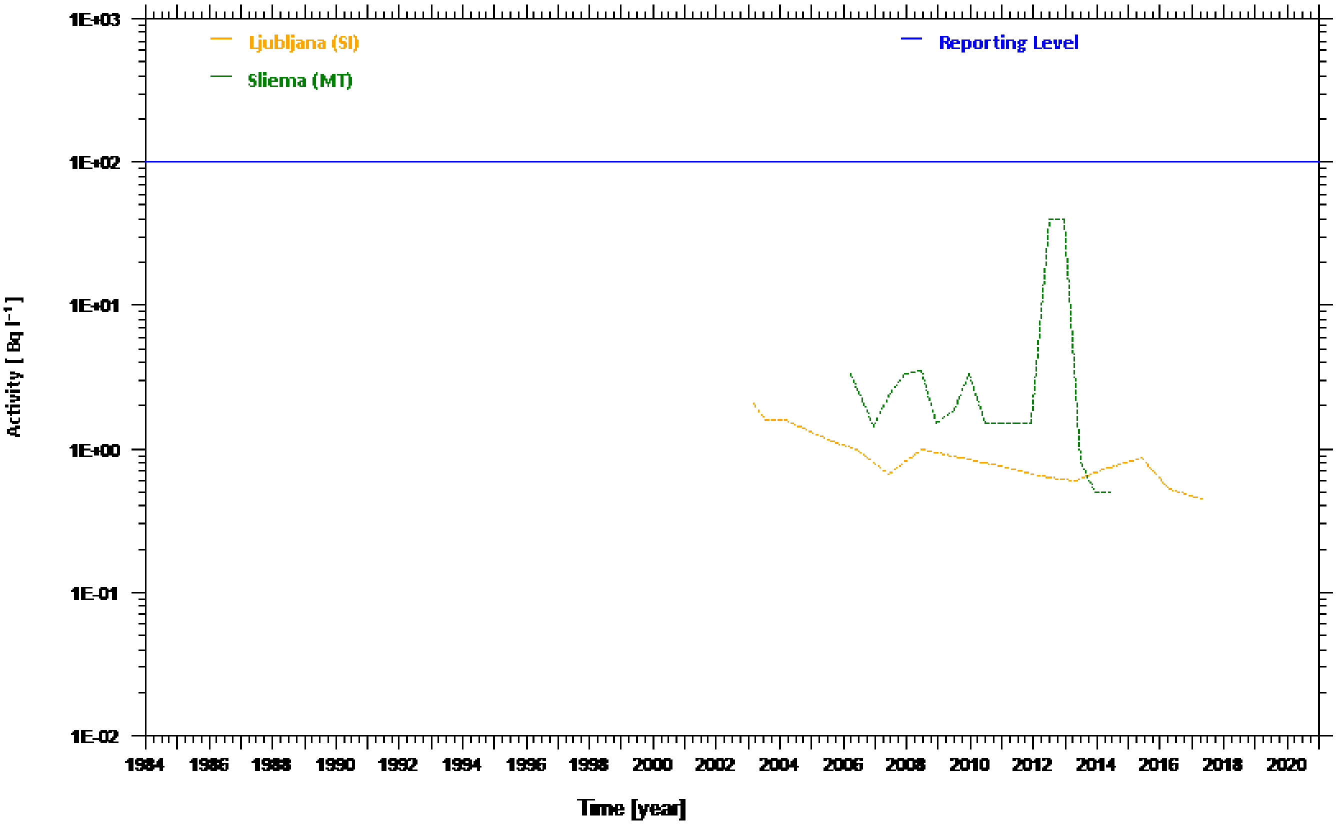


Fig. W22 Activity trends for ^{3}H in drinking water (Nîmes and Bilbao)

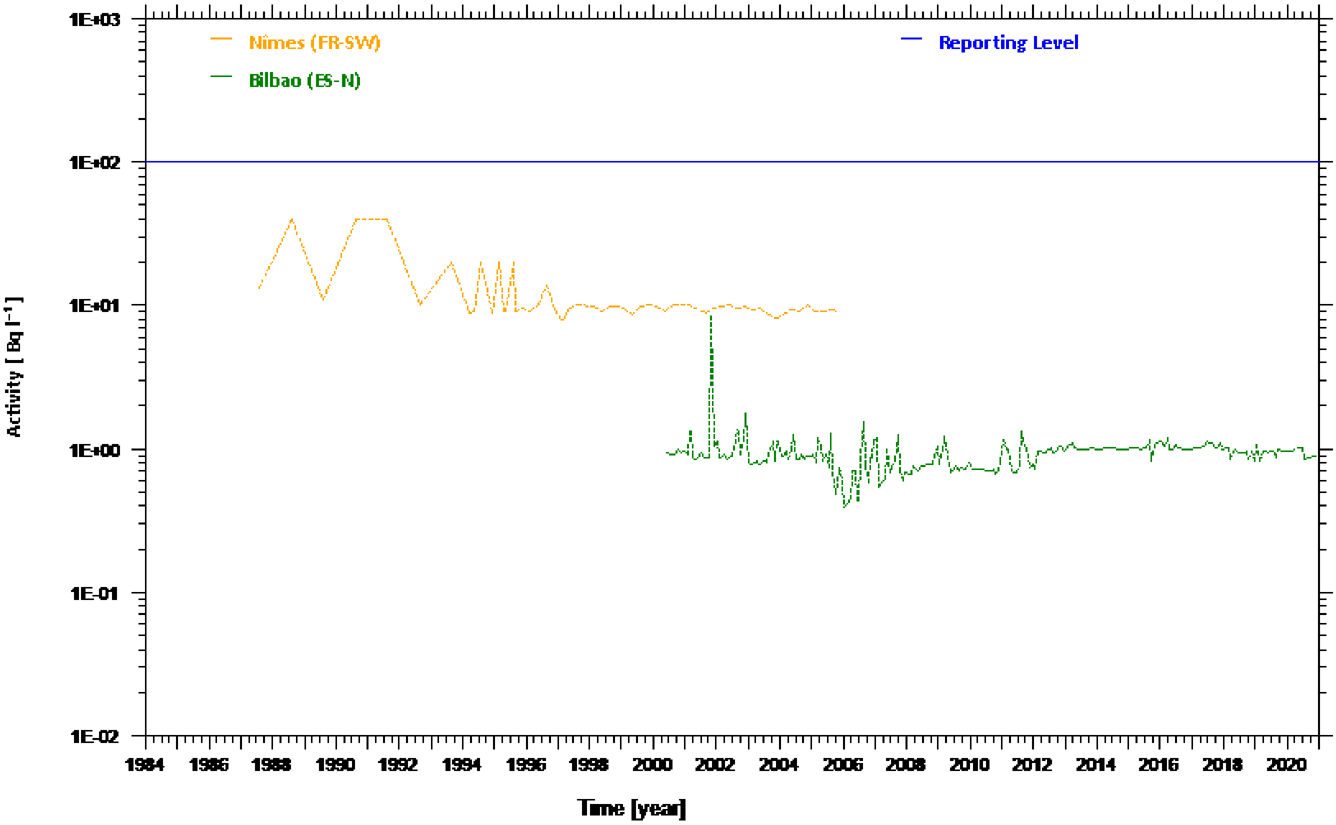
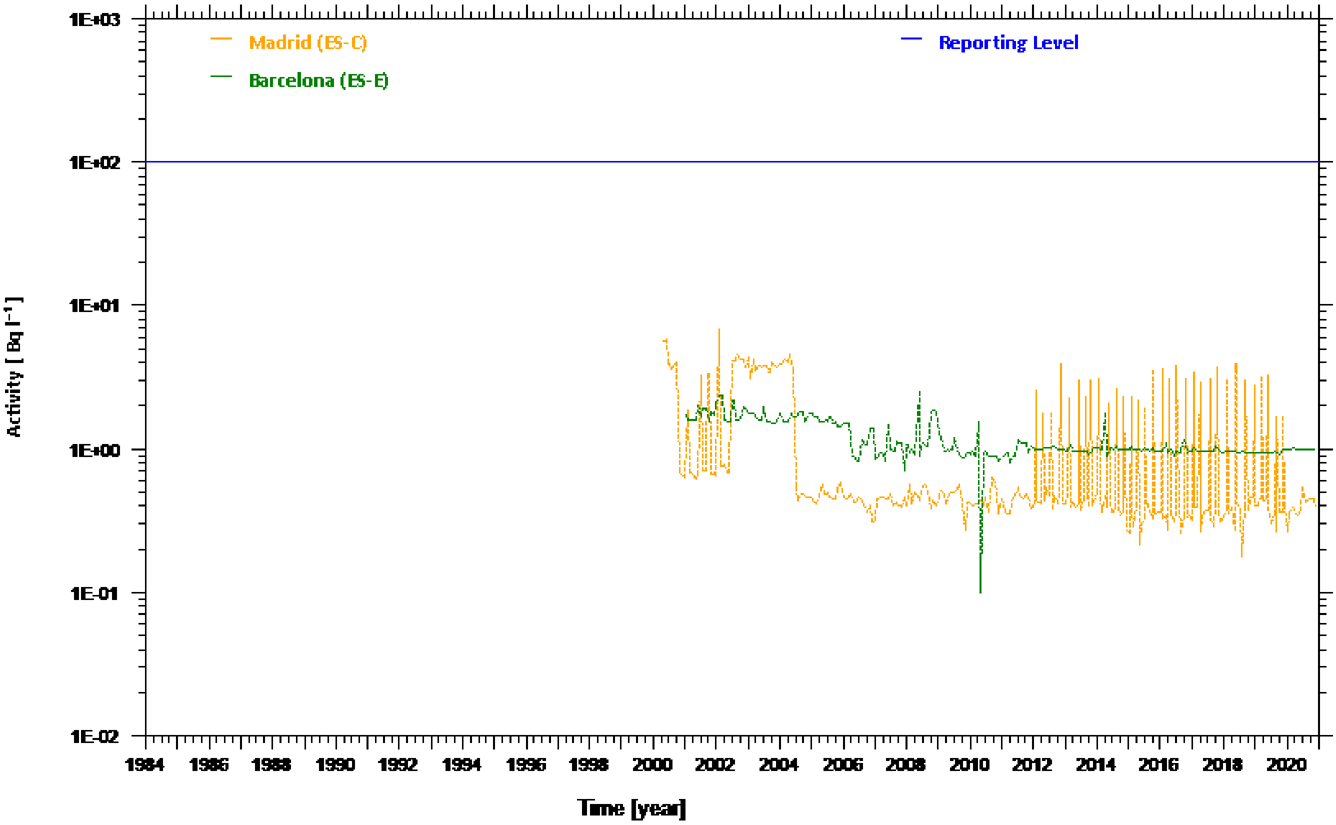


Fig. W23 Activity trends for ^{3}H in drinking water (Madrid and Barcelona)



SPARSE

Activity trends

SAMPLE TYPE : drinking water (Bq l $^{-1}$)

NUCLIDE CATEGORY : tritium (^{3}H)

Fig. W24 Activity trends for ^{3}H in drinking water (Sevilla, La Laguna-Tenerife and Castelo de Bode)

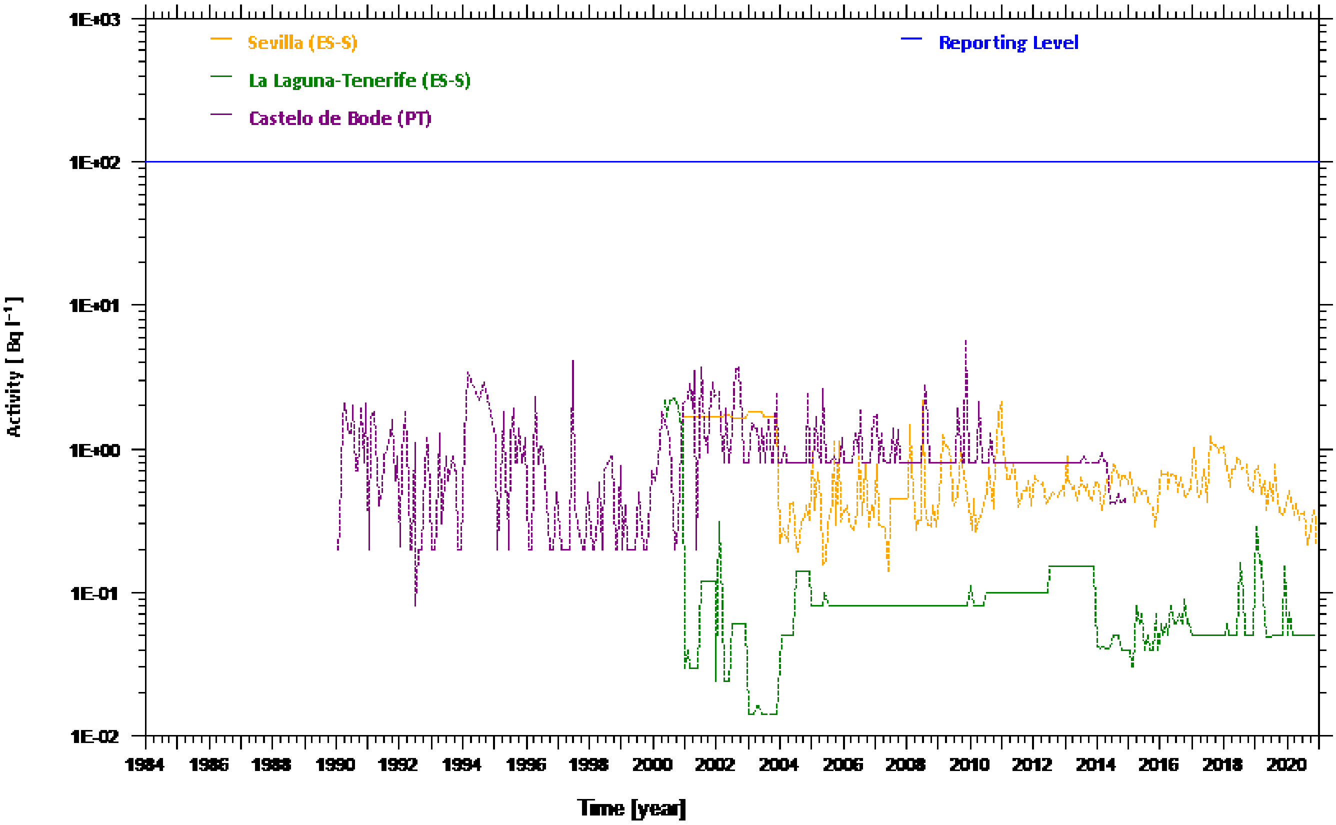


Fig. W25 Activity trends for ^{3}H in drinking water (Bucharest and Constanta)

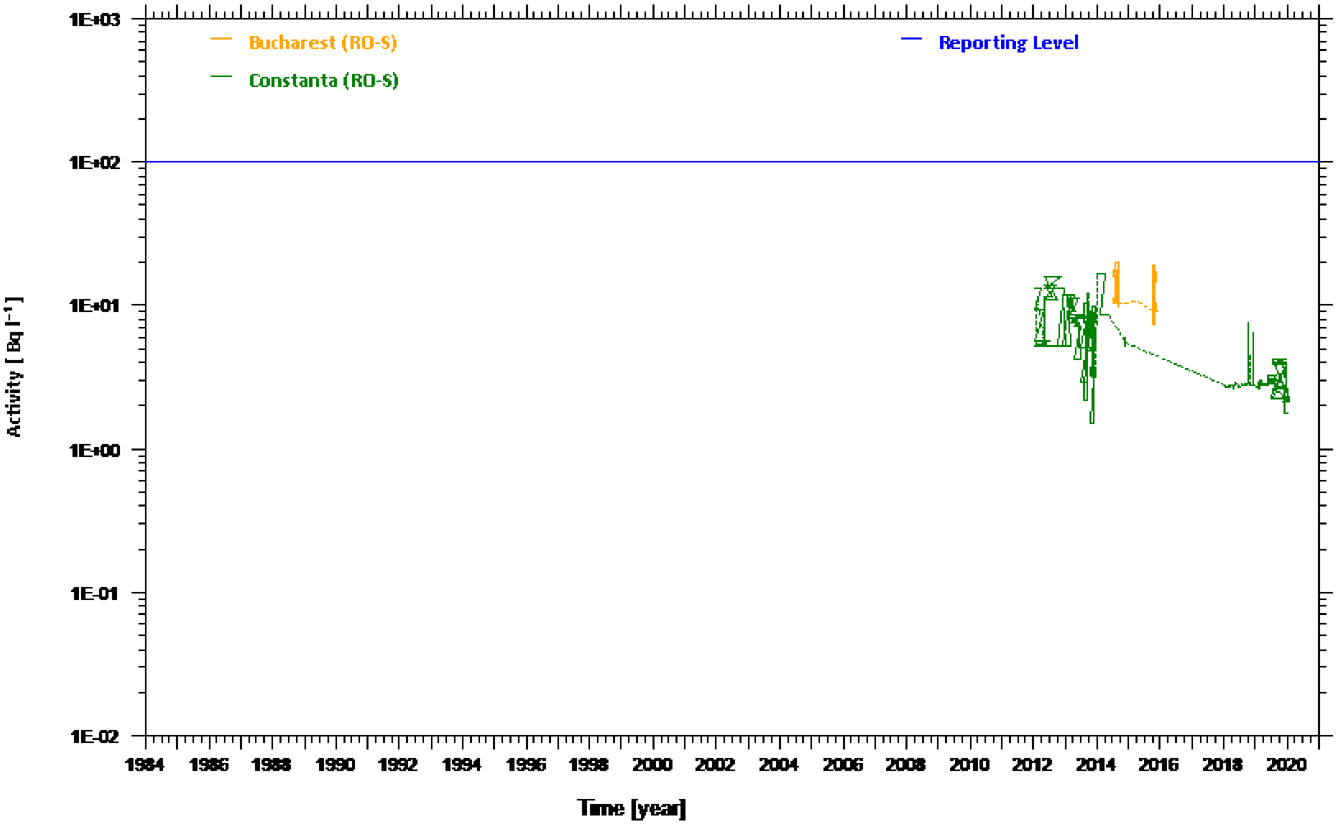


Fig. W26 Activity trends for ^{3}H in drinking water (Östersund-Storsjön and Norsborg)

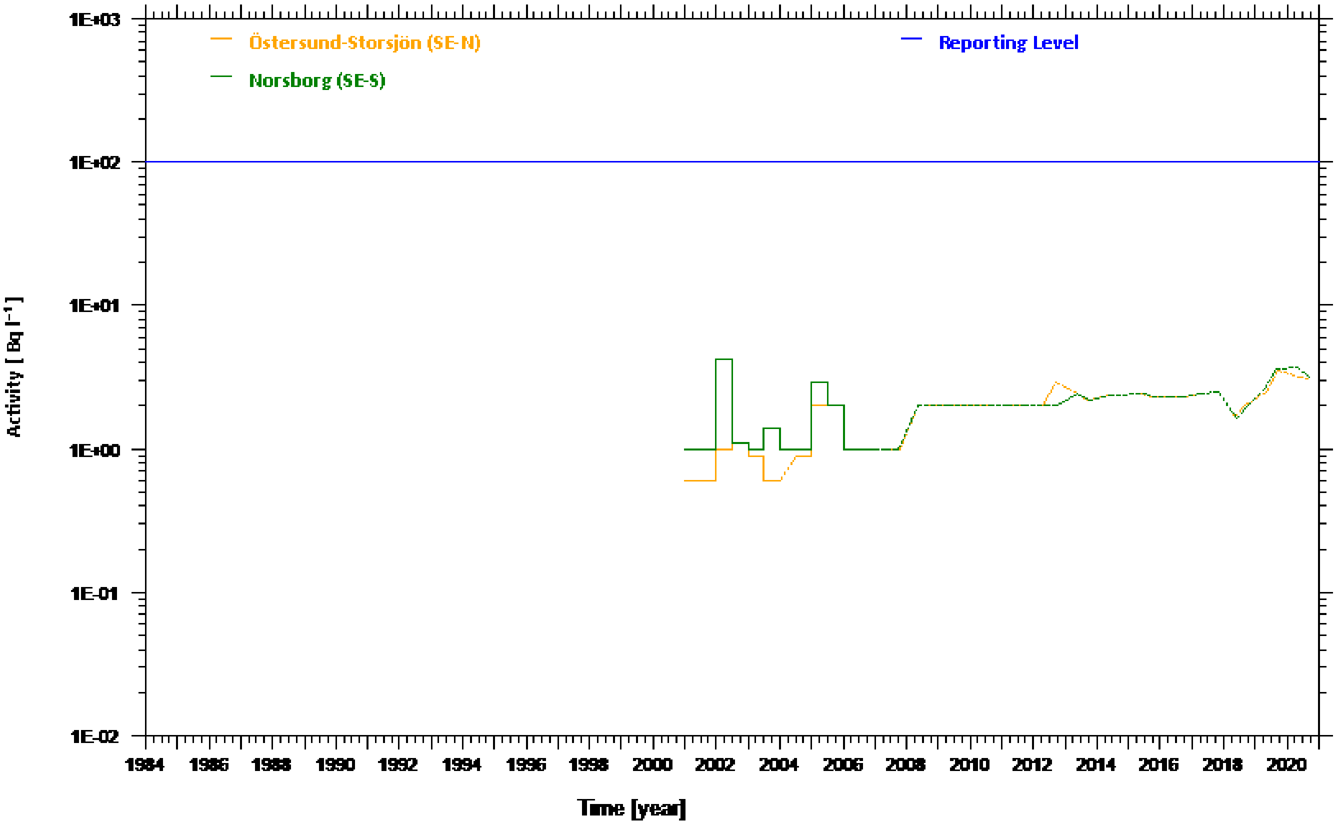
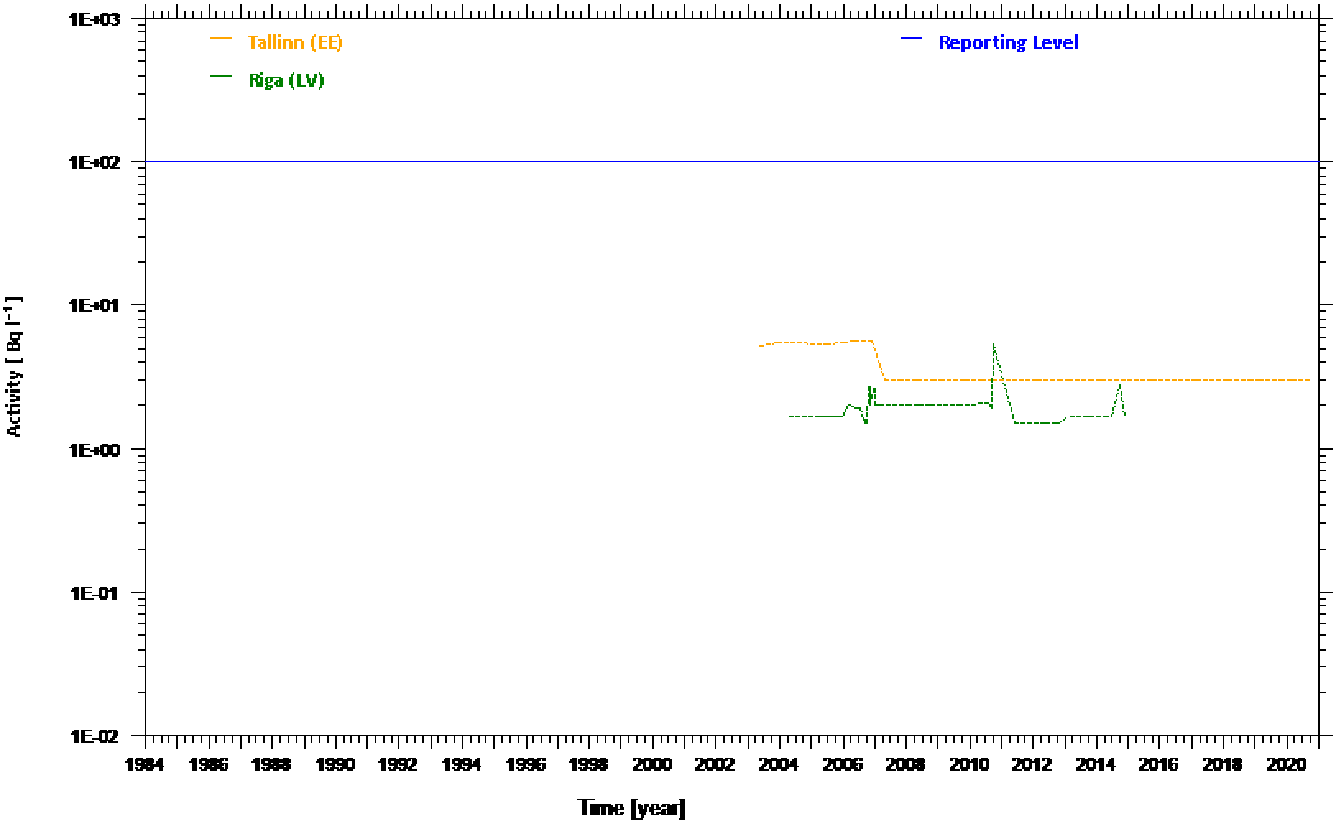


Fig. W27 Activity trends for ^{3}H in drinking water (Tallinn and Riga)



SPARSE

Activity trends

SAMPLE TYPE : **drinking water ($Bq\ l^{-1}$)**

NUCLIDE CATEGORY : **tritium (^3H)**

Fig. W28 Activity trends for ^3H in drinking water (Utena and Vilnius)

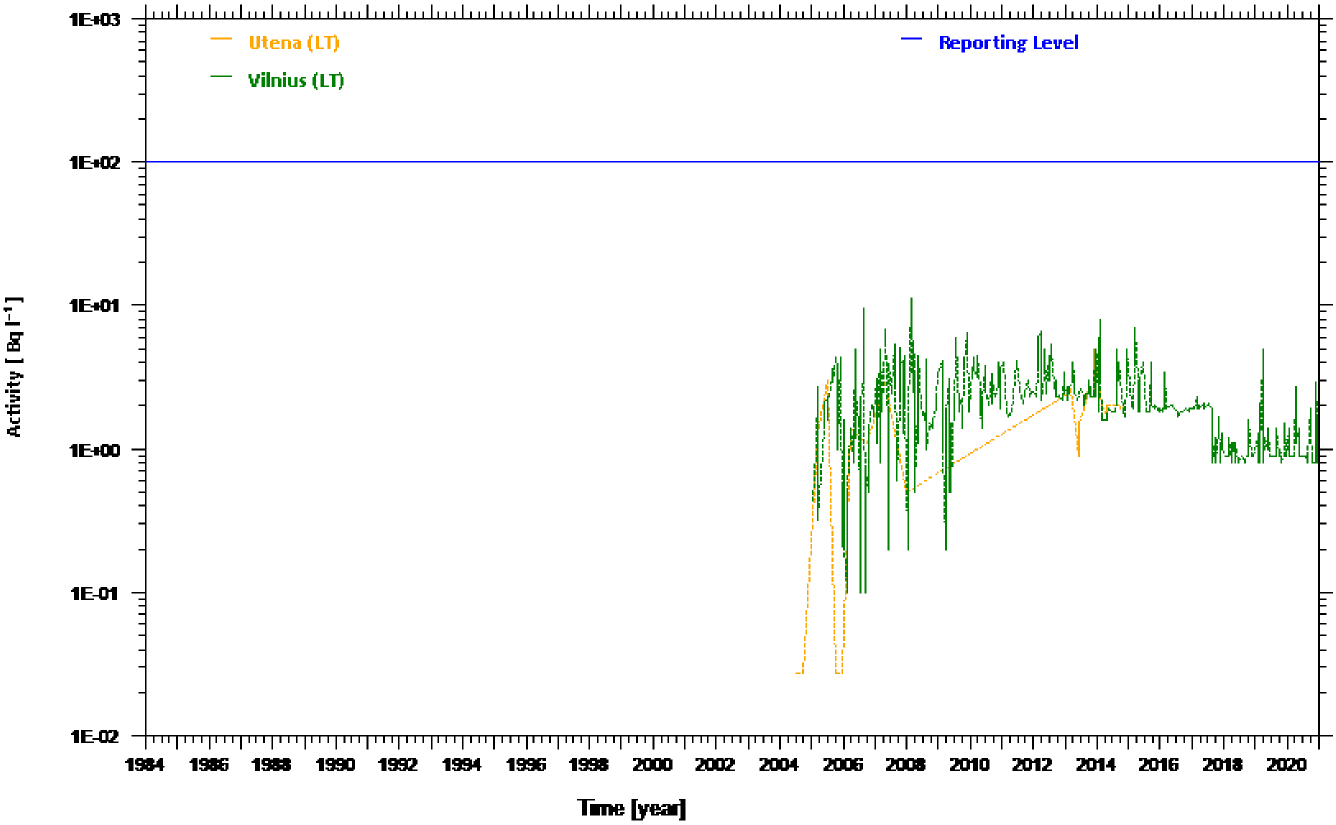
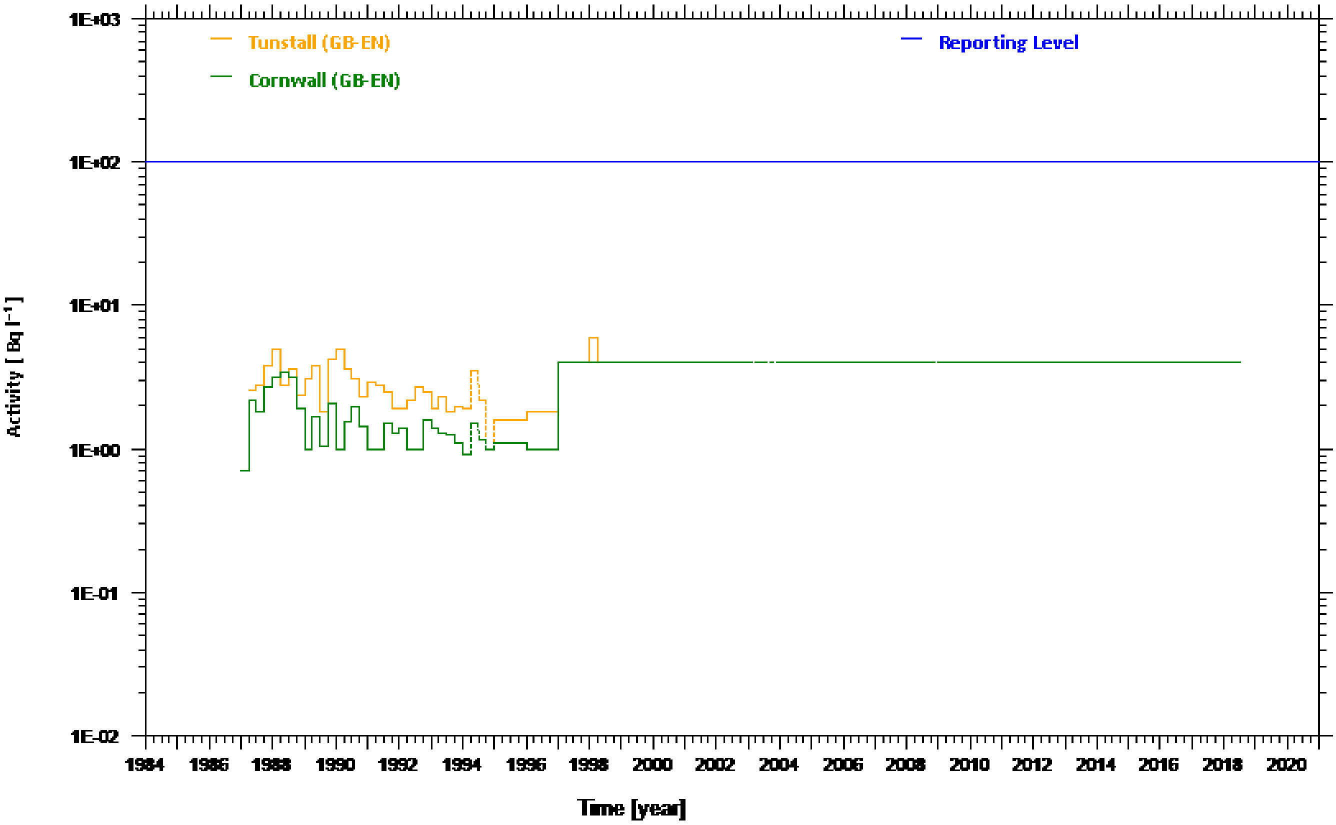


Fig. W29 Activity trends for ^3H in drinking water (Tunstall and Cornwall)



Activity trends

SAMPLE TYPE : drinking water (Bq l $^{-1}$)

NUCLIDE CATEGORY : tritium (^{3}H)

SPARSE

Fig. W30 Activity trends for ^{3}H in drinking water (Langelsheim, Wiesbaden and Berlin)

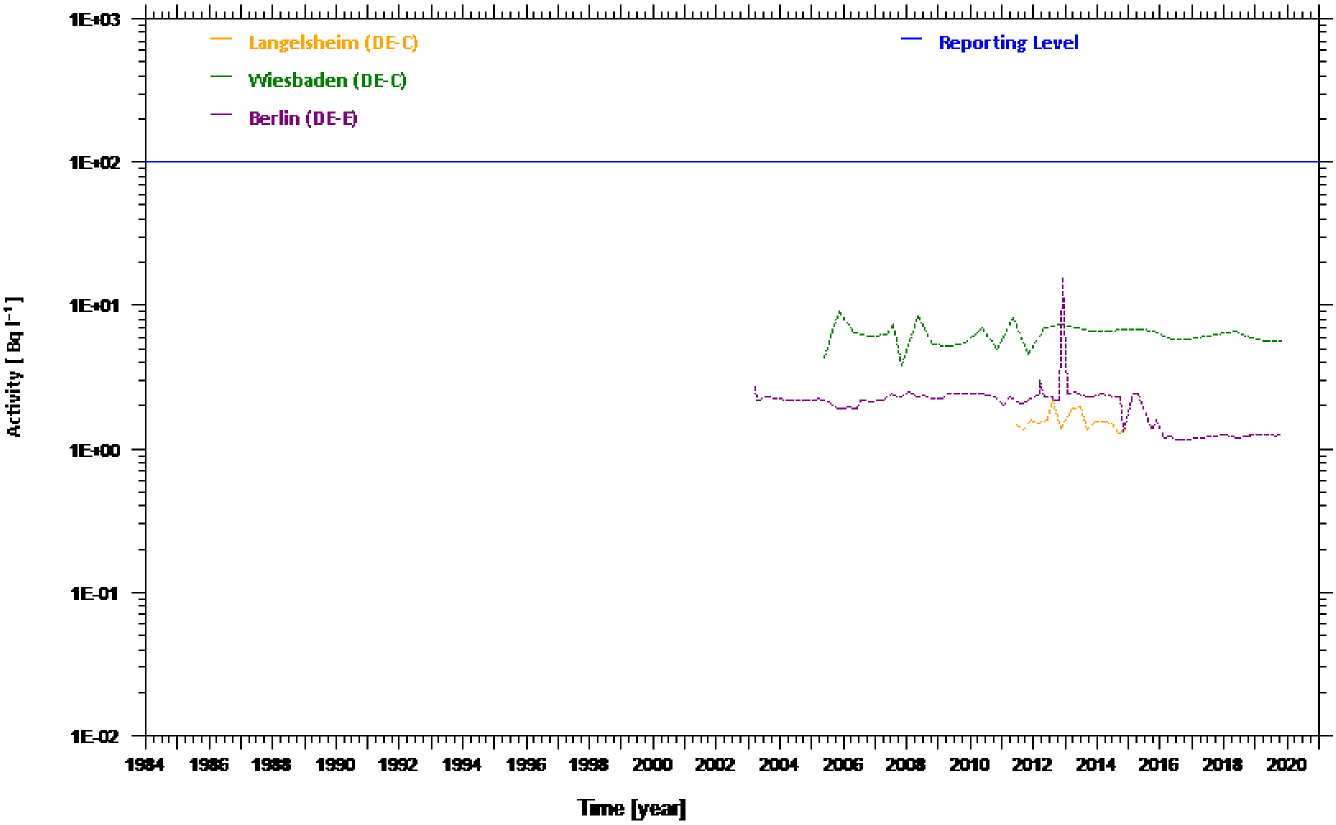
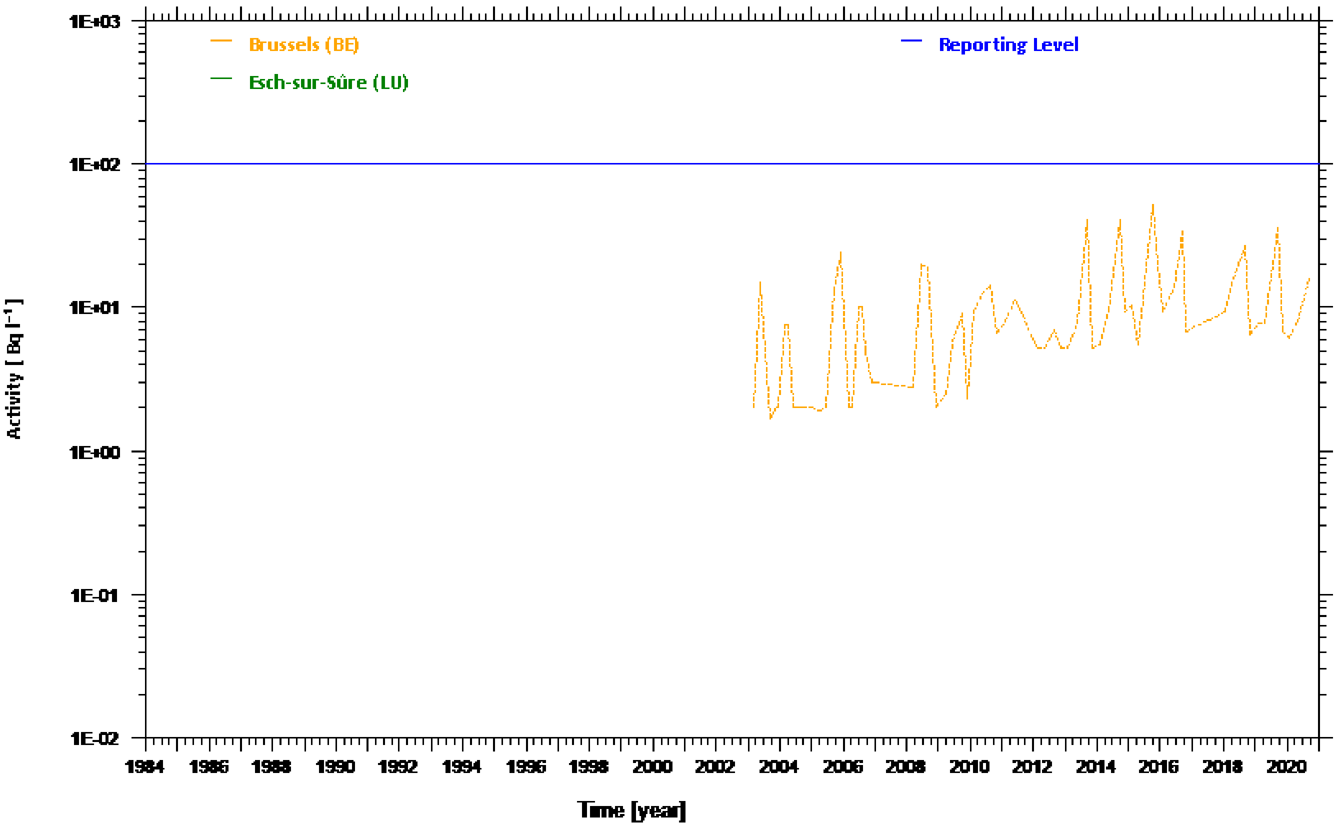


Fig. W31 Activity trends for ^{3}H in drinking water (Brussels and Esch-sur-Sûre)



SPARSE

Activity trends

SAMPLE TYPE	:	drinking water (Bq l $^{-1}$)
NUCLIDE CATEGORY	:	tritium (^{3}H)

Fig. W32 Activity trends for ^{3}H in drinking water (Svihof and Vienna-Ages)

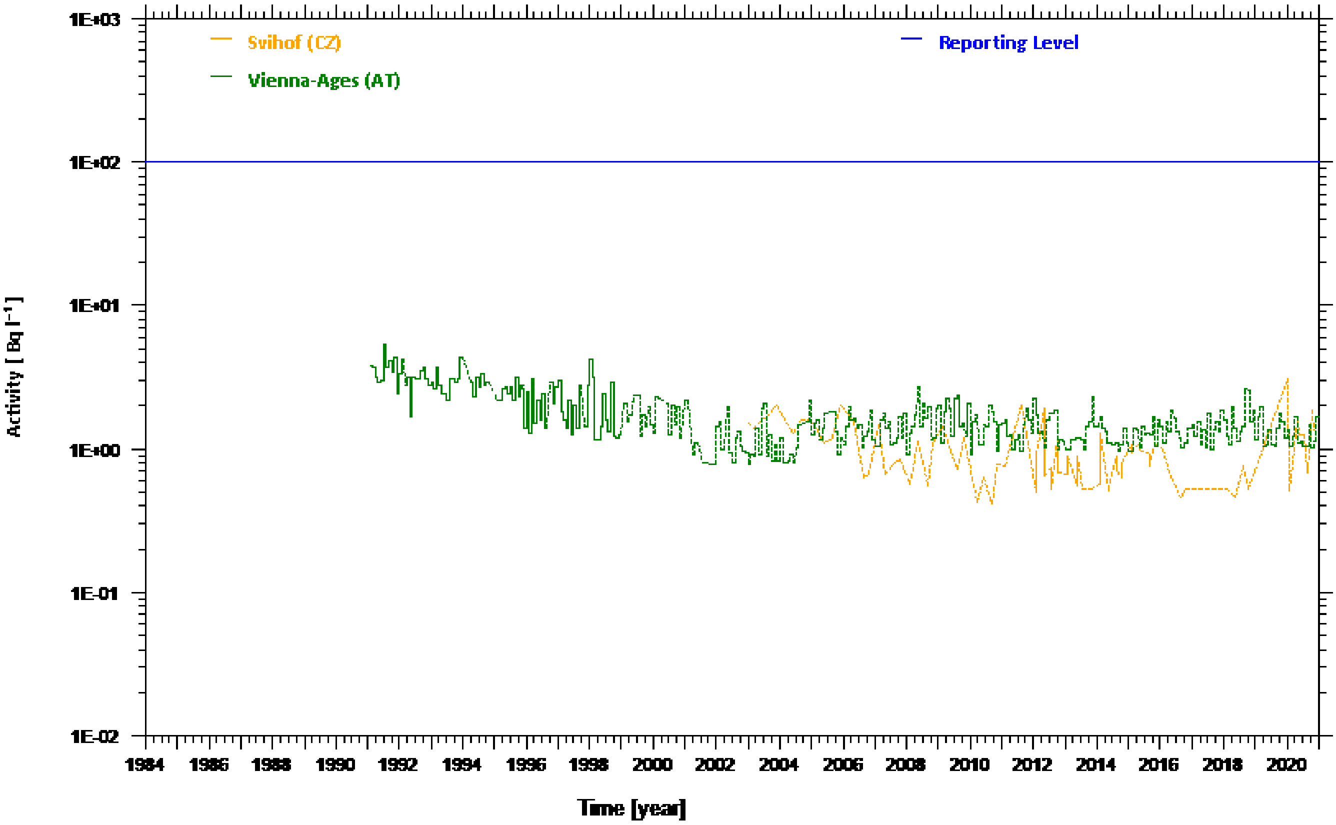


Fig. W33 Activity trends for ^{3}H in drinking water (Bratislava and Budapest-Nrirr)

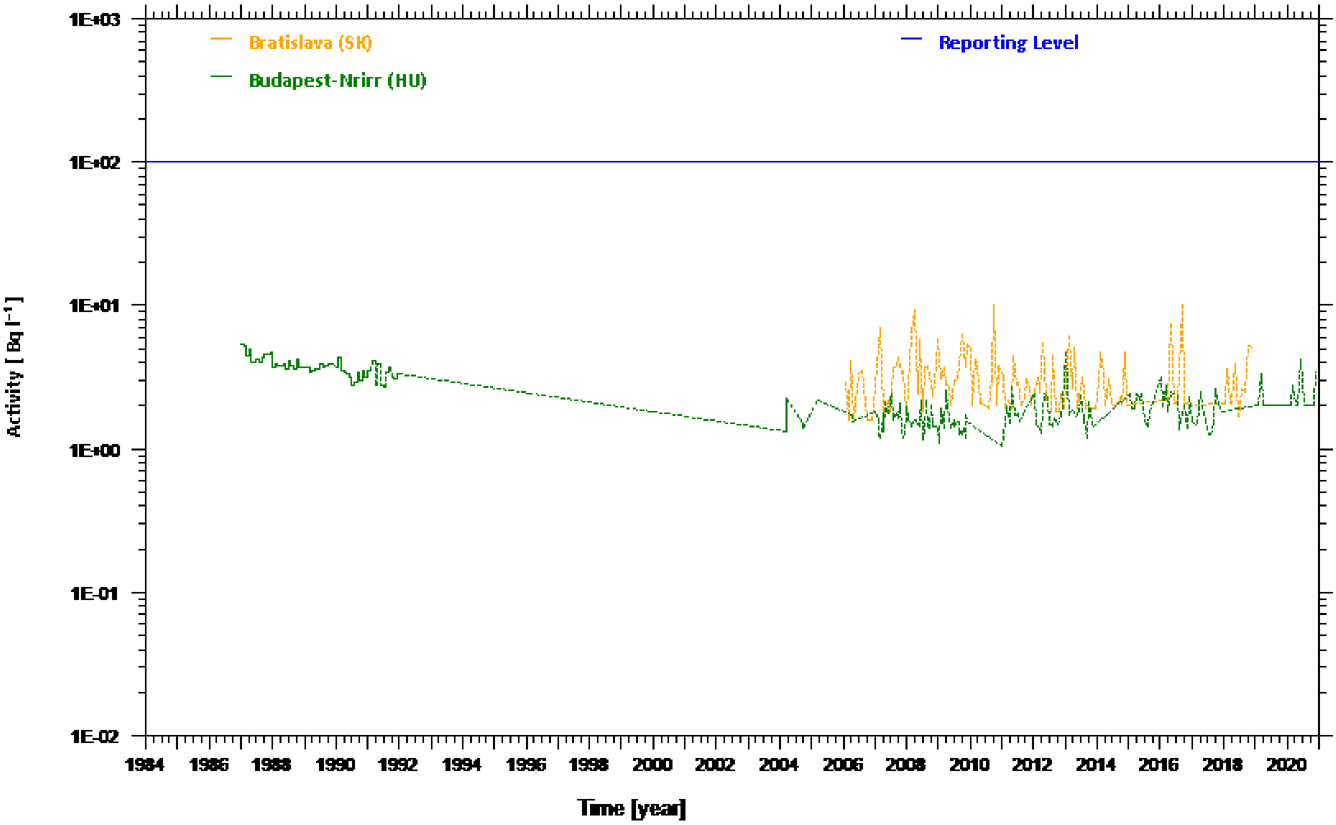


Fig. W34 Activity trends for ^{90}Sr in drinking water (Rovaniemi, Helsinki and Tallinn)

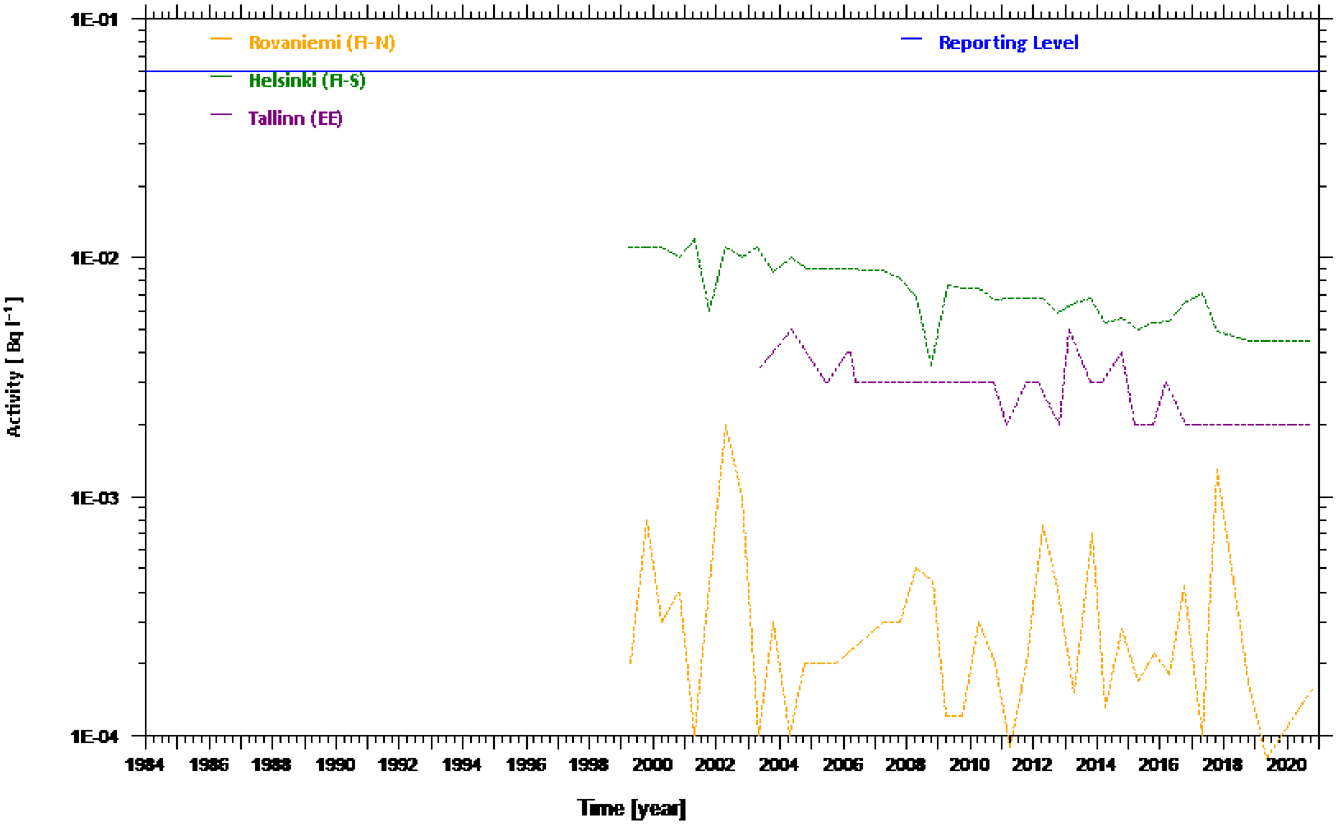
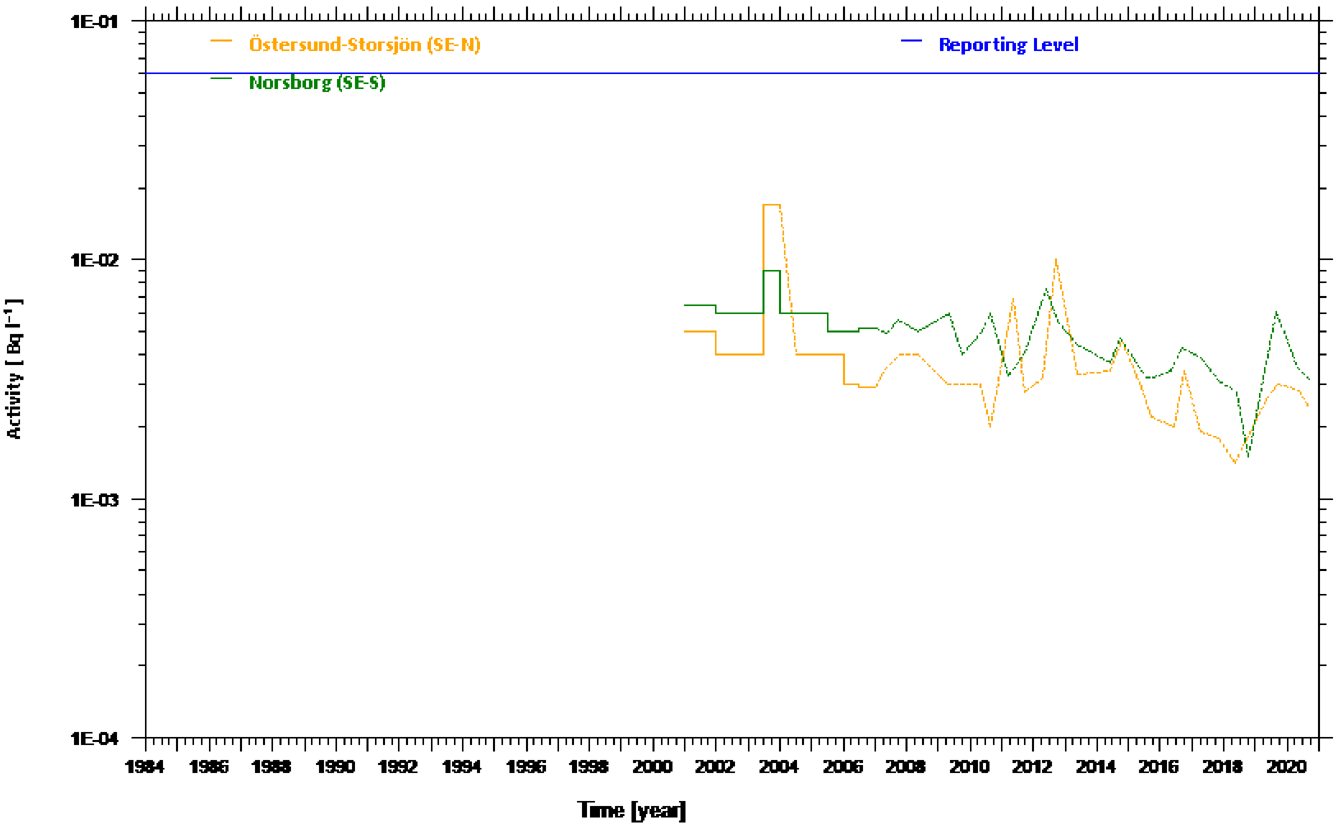


Fig. W35 Activity trends for ^{90}Sr in drinking water (Östersund-Storsjön and Norsborg)



SPARSE

Activity trends

SAMPLE TYPE : drinking water (Bq l $^{-1}$)

NUCLIDE CATEGORY : strontium-90 (^{90}Sr)

Fig. W36 Activity trends for ^{90}Sr in drinking water (Cornwall, Tunstall and Nîmes)

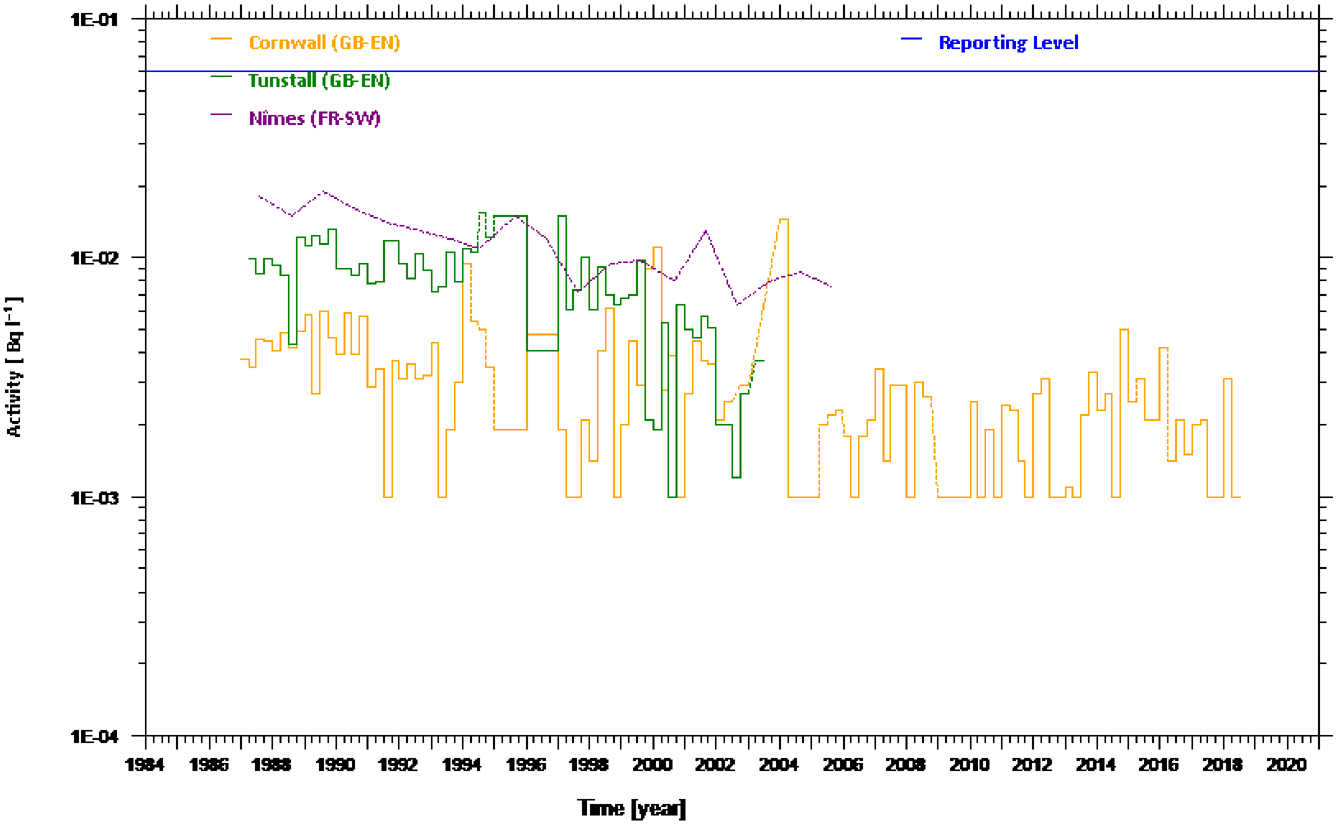
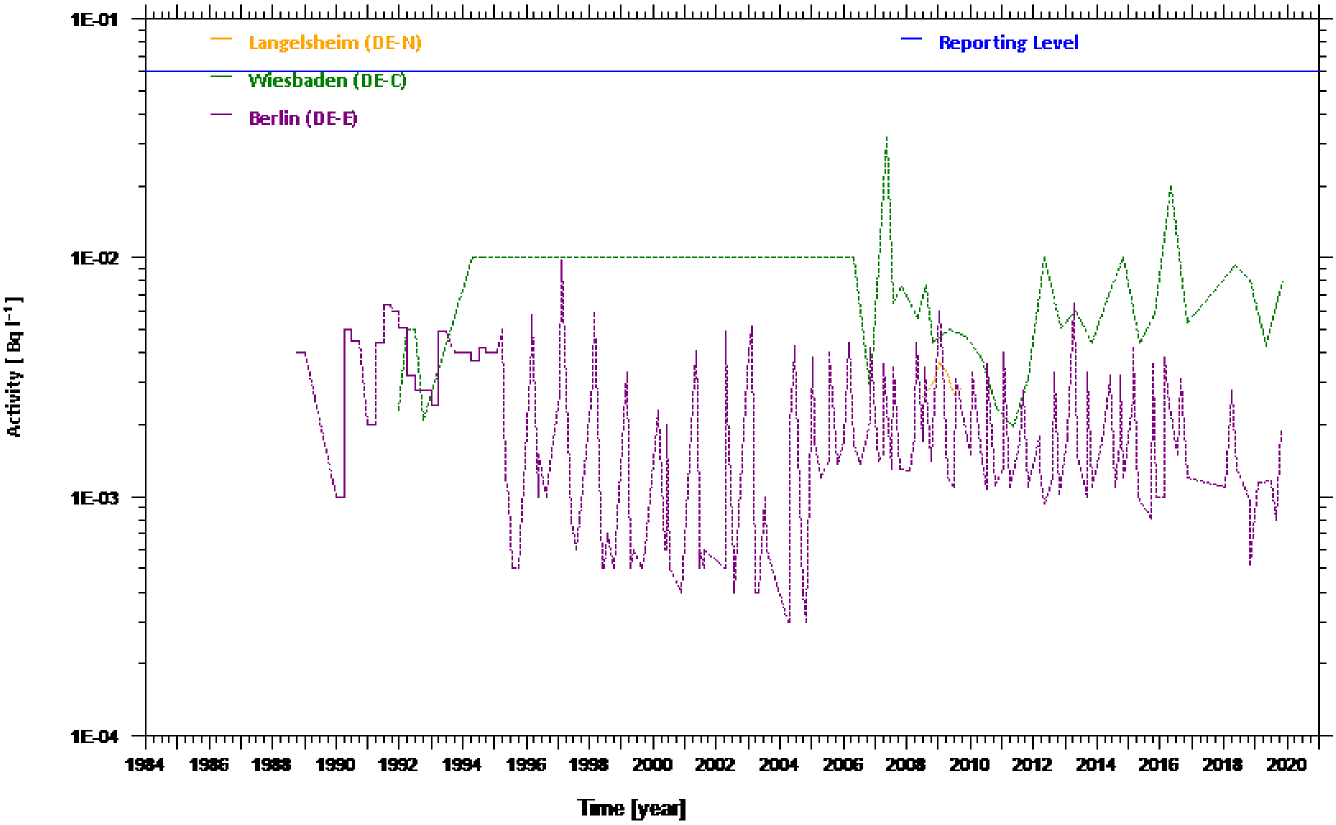


Fig. W37 Activity trends for ^{90}Sr in drinking water (Langelsheim, Wiesbaden and Berlin)



Activity trends
SAMPLE TYPE : drinking water (Bq l^{-1})
NUCLIDE CATEGORY : strontium-90 (^{90}Sr)

SPARSE

Fig. W38 Activity trends for ^{90}Sr in drinking water (Frauenau and Svihof)

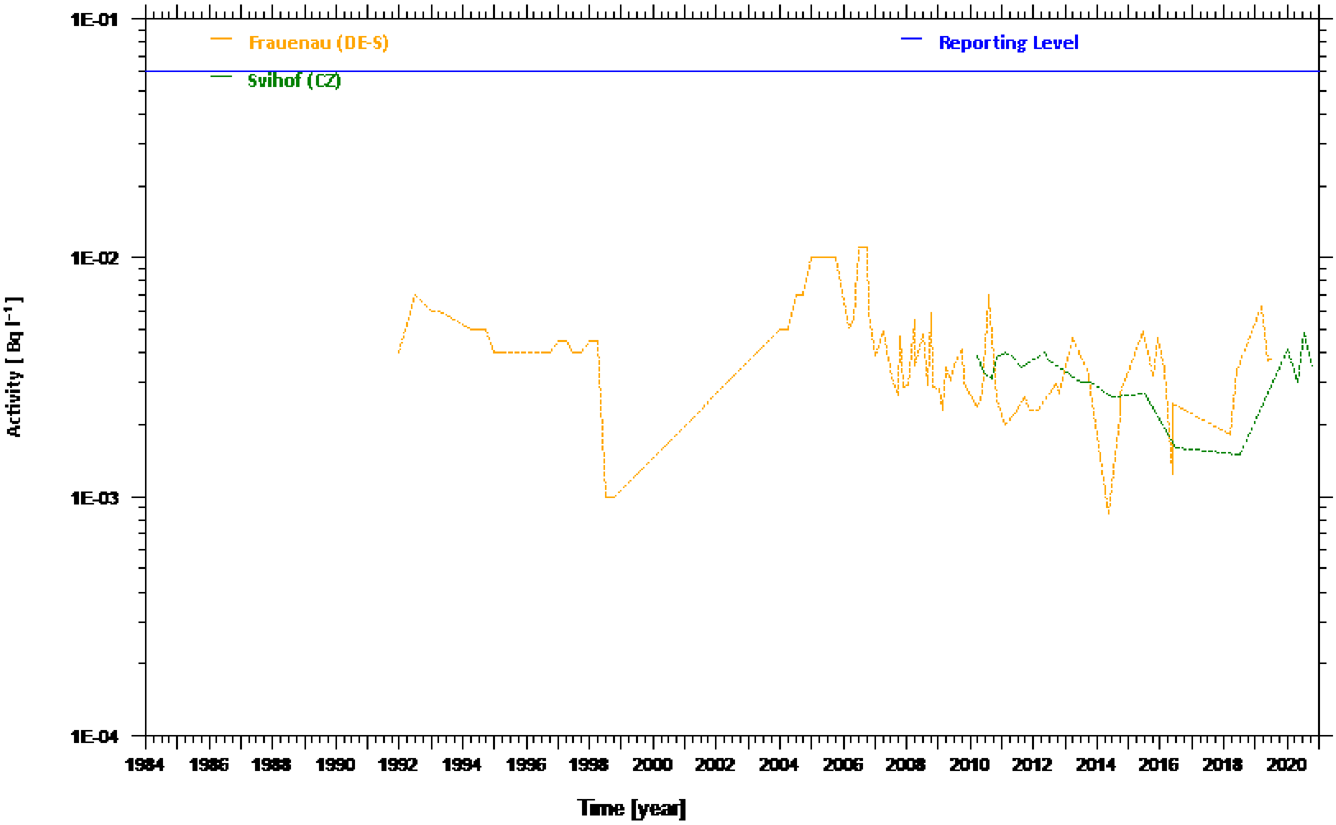
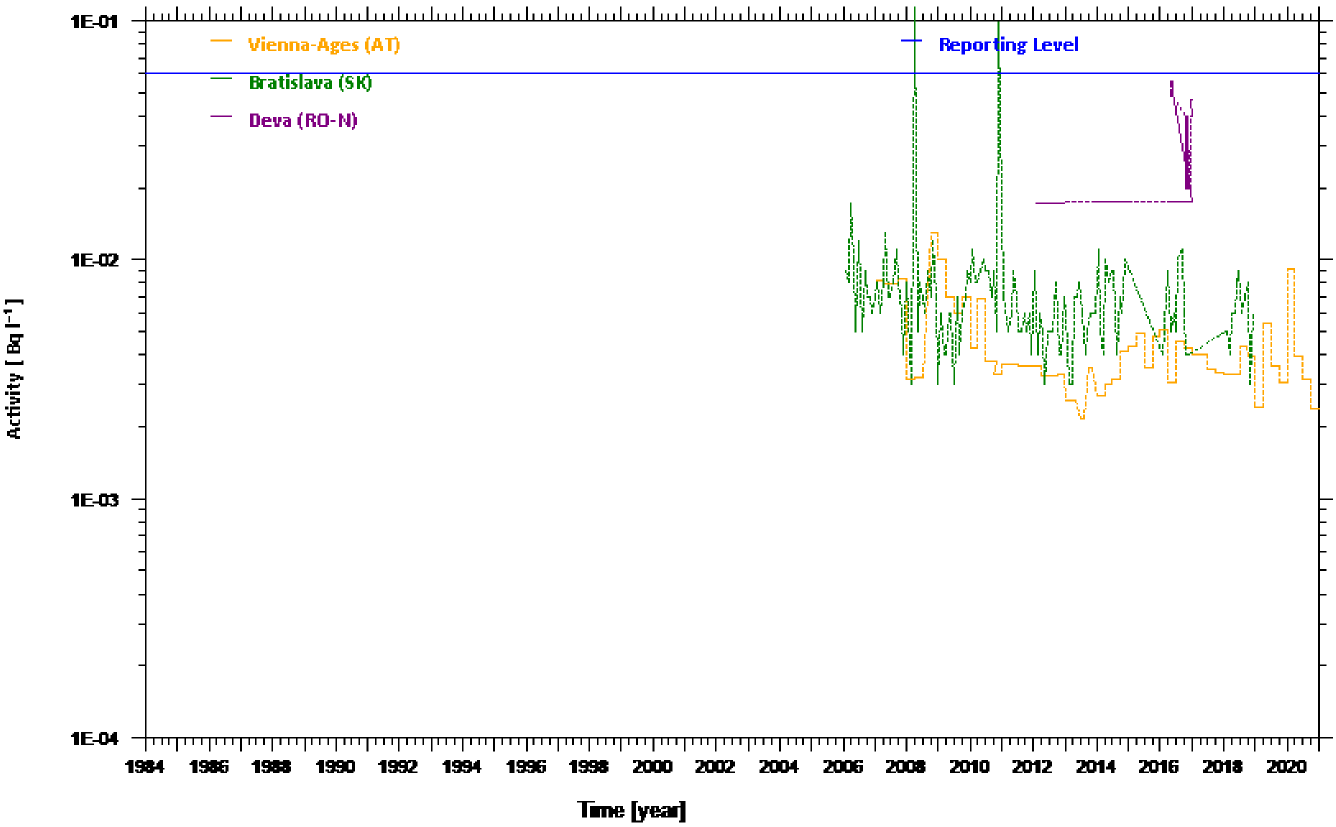


Fig. W39 Activity trends for ^{90}Sr in drinking water (Vienna-Ages, Bratislava and Deva)



SPARSE

Activity trends

SAMPLE TYPE : drinking water (Bq l $^{-1}$)

NUCLIDE CATEGORY : strontium-90 (^{90}Sr)

Fig. W40 Activity trends for ^{90}Sr in drinking water (Ljubljana, Sliema and Sofia)

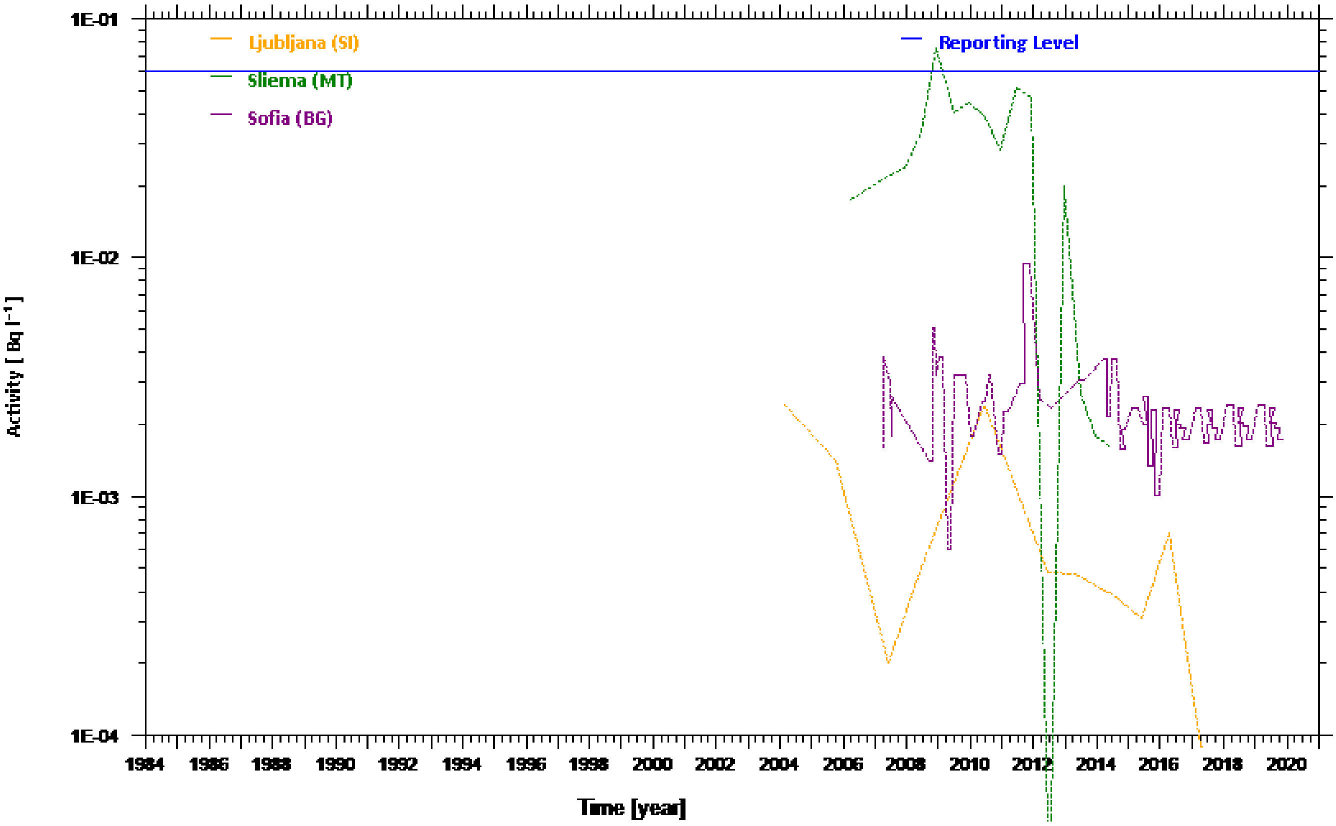
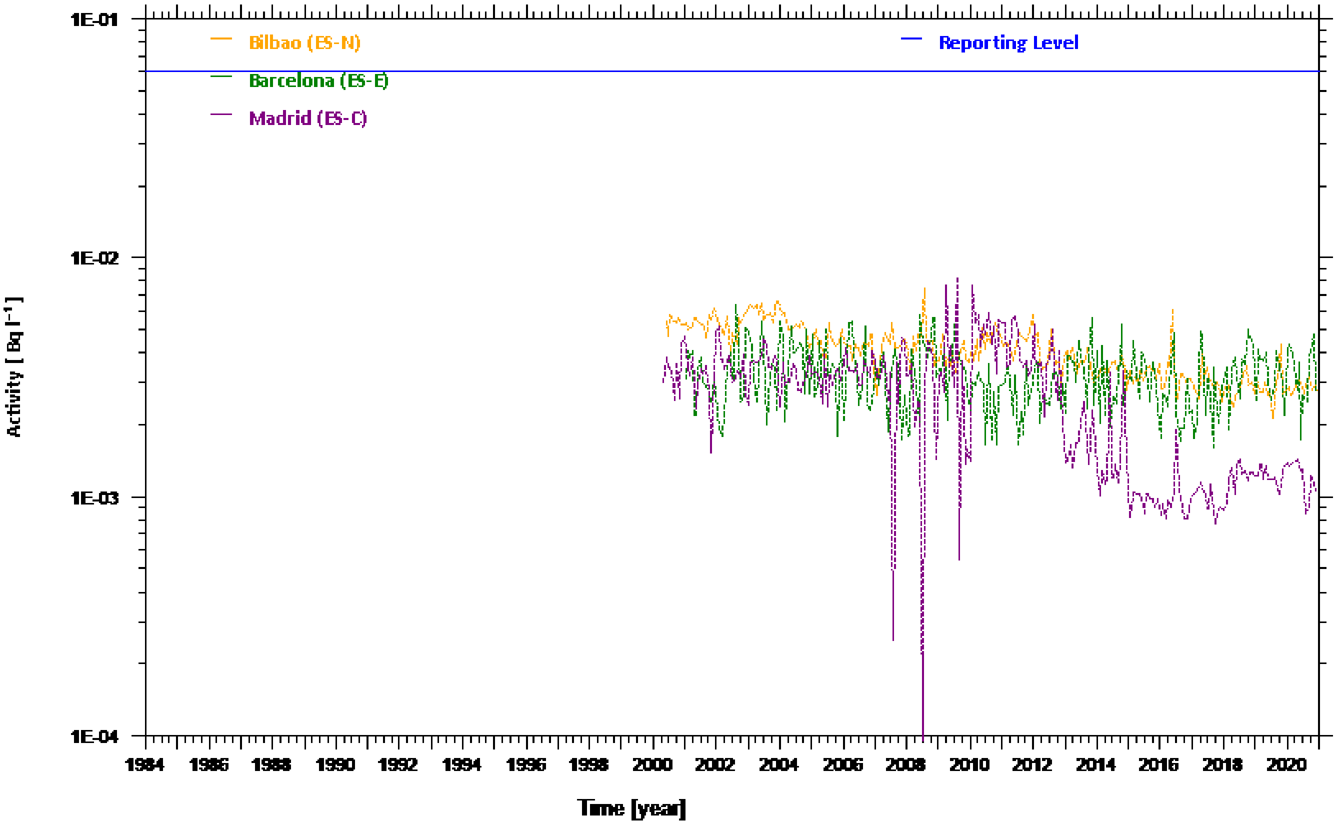


Fig. W41 Activity trends for ^{90}Sr in drinking water (Bilbao, Barcelona and Madrid)



Activity trends

SAMPLE TYPE	:	drinking water (Bq l^{-1})
NUCLIDE CATEGORY	:	strontium-90 (^{90}Sr)

SPARSE

Fig. W42 Activity trends for ^{90}Sr in drinking water (Sevilla, La Laguna-Tenerife and Castelo de Bode)

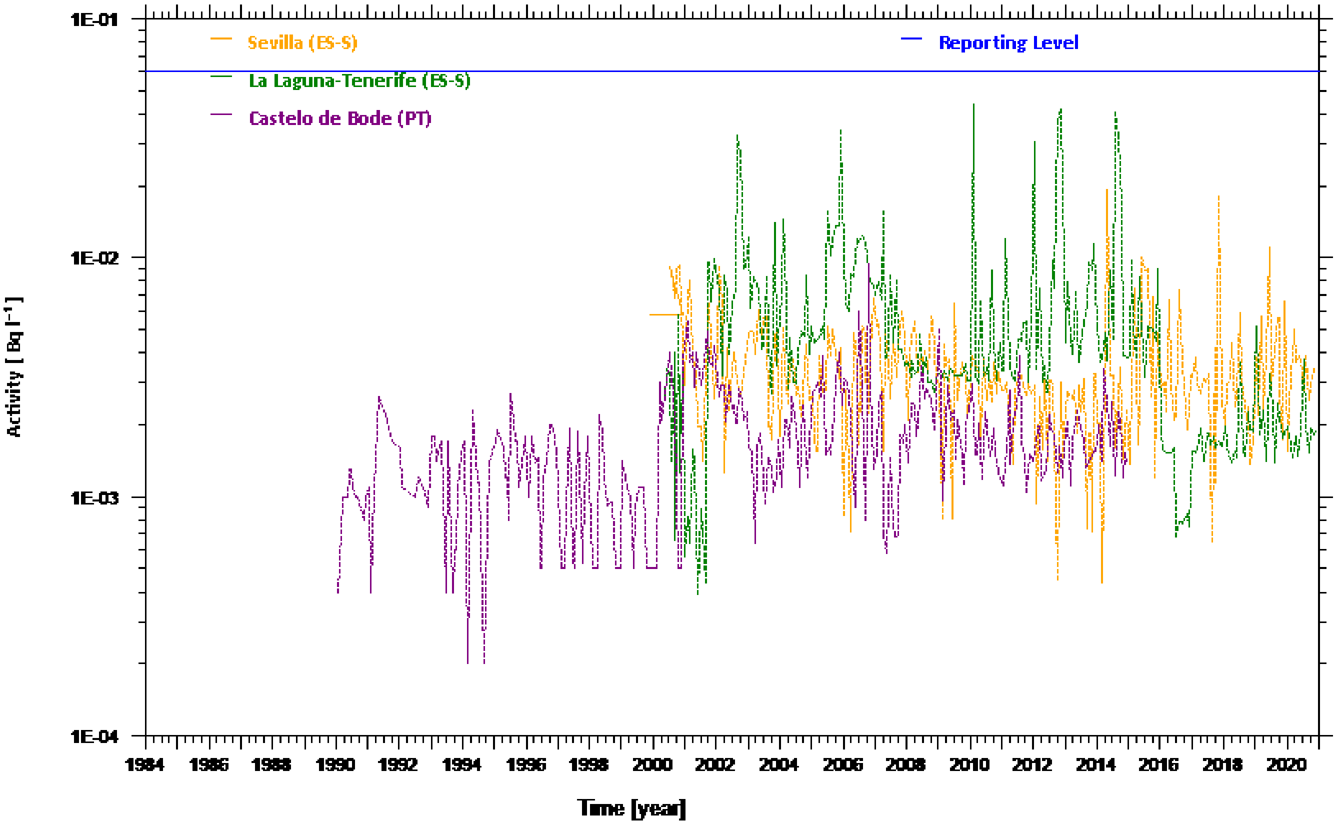


Fig. W43 Activity trends for ^{137}Cs in drinking water (Rovaniemi and Helsinki)

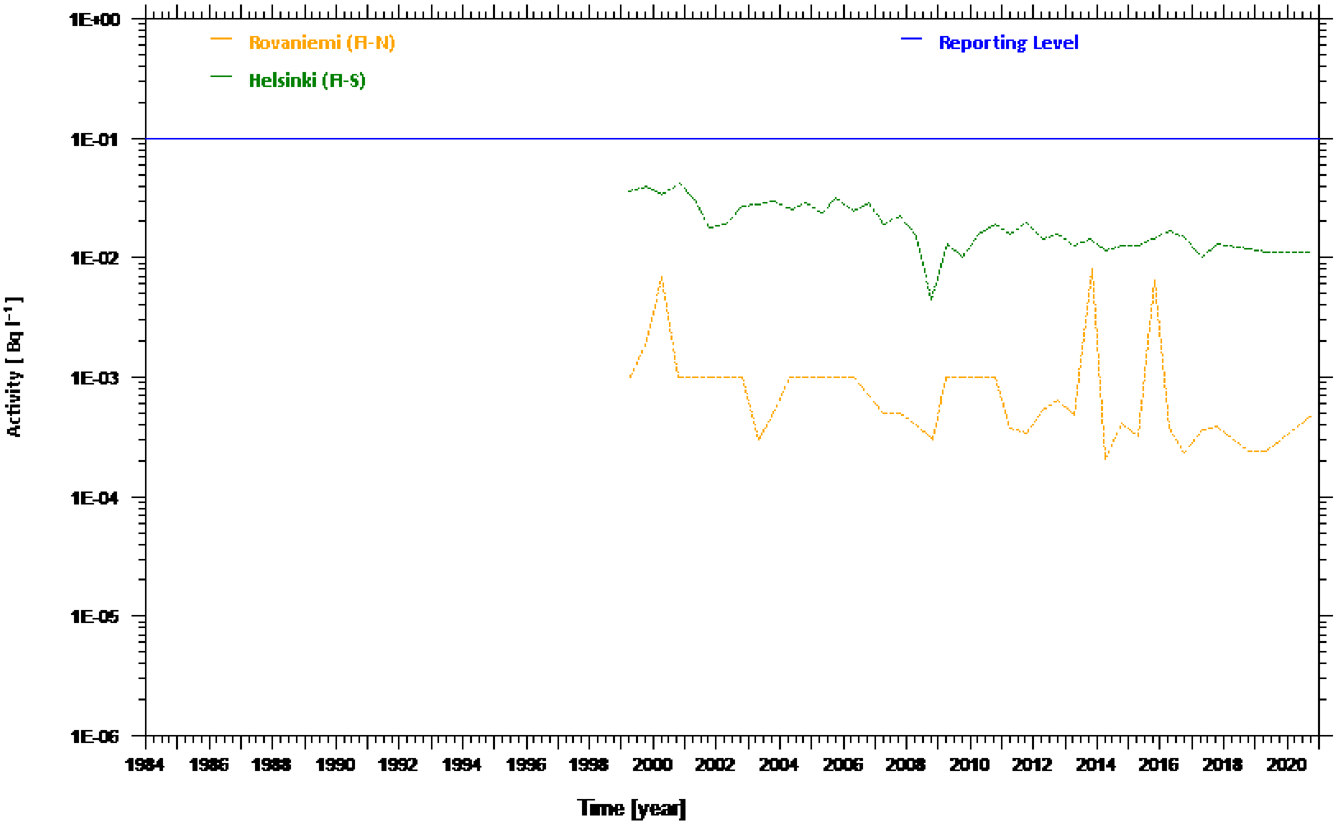


Fig. W44 Activity trends for ^{137}Cs in drinking water (Nîmes, Milano and Ljubljana)

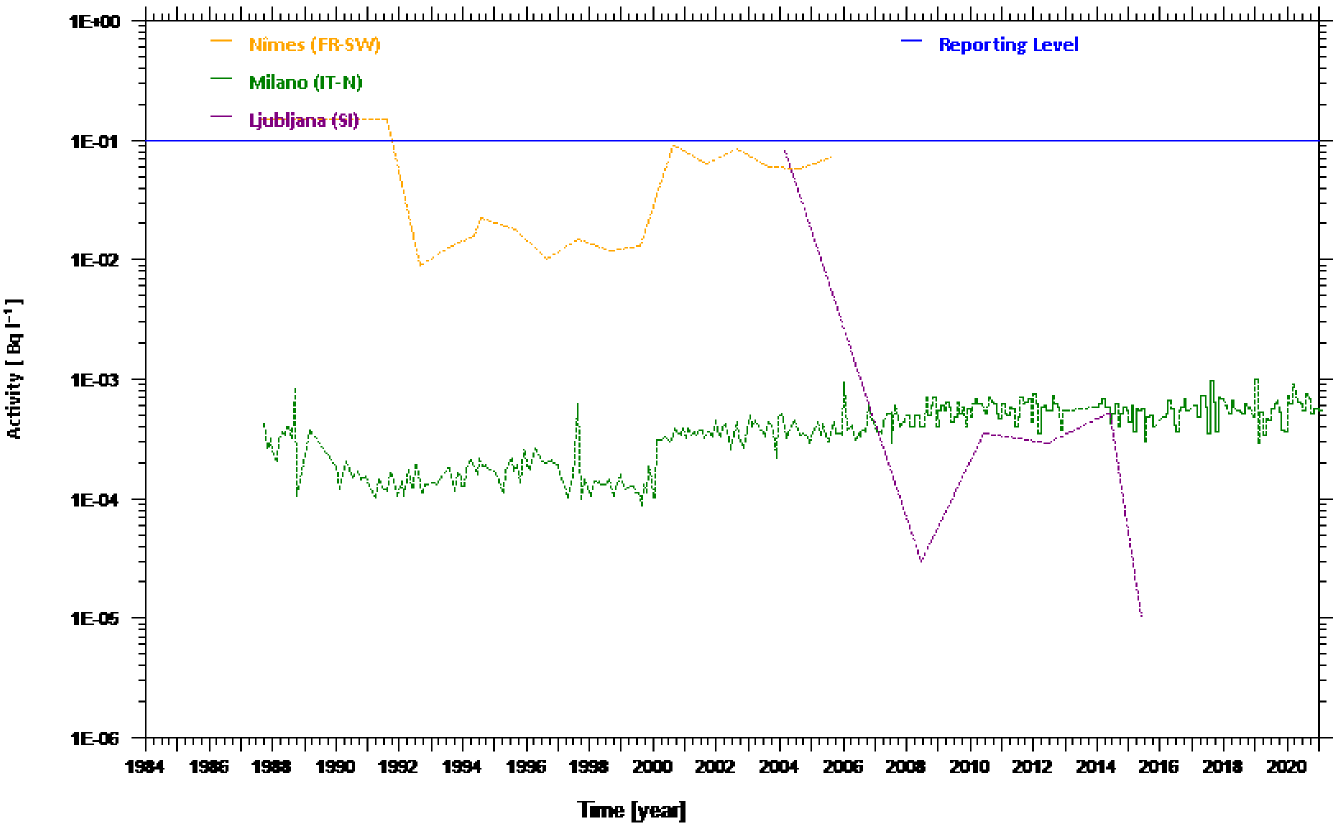


Fig. W45 Activity trends for ^{137}Cs in drinking water (Bilbao, Madrid and Barcelona)

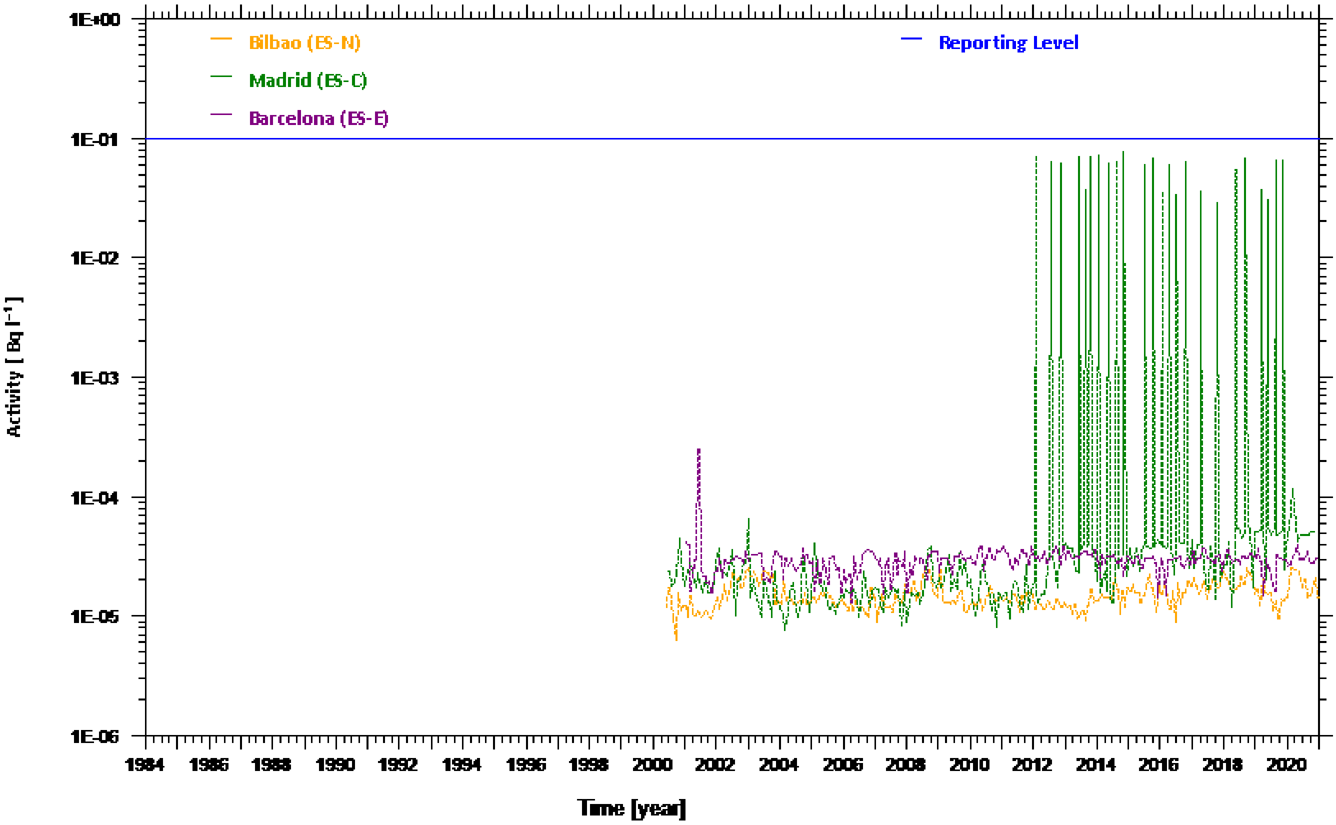
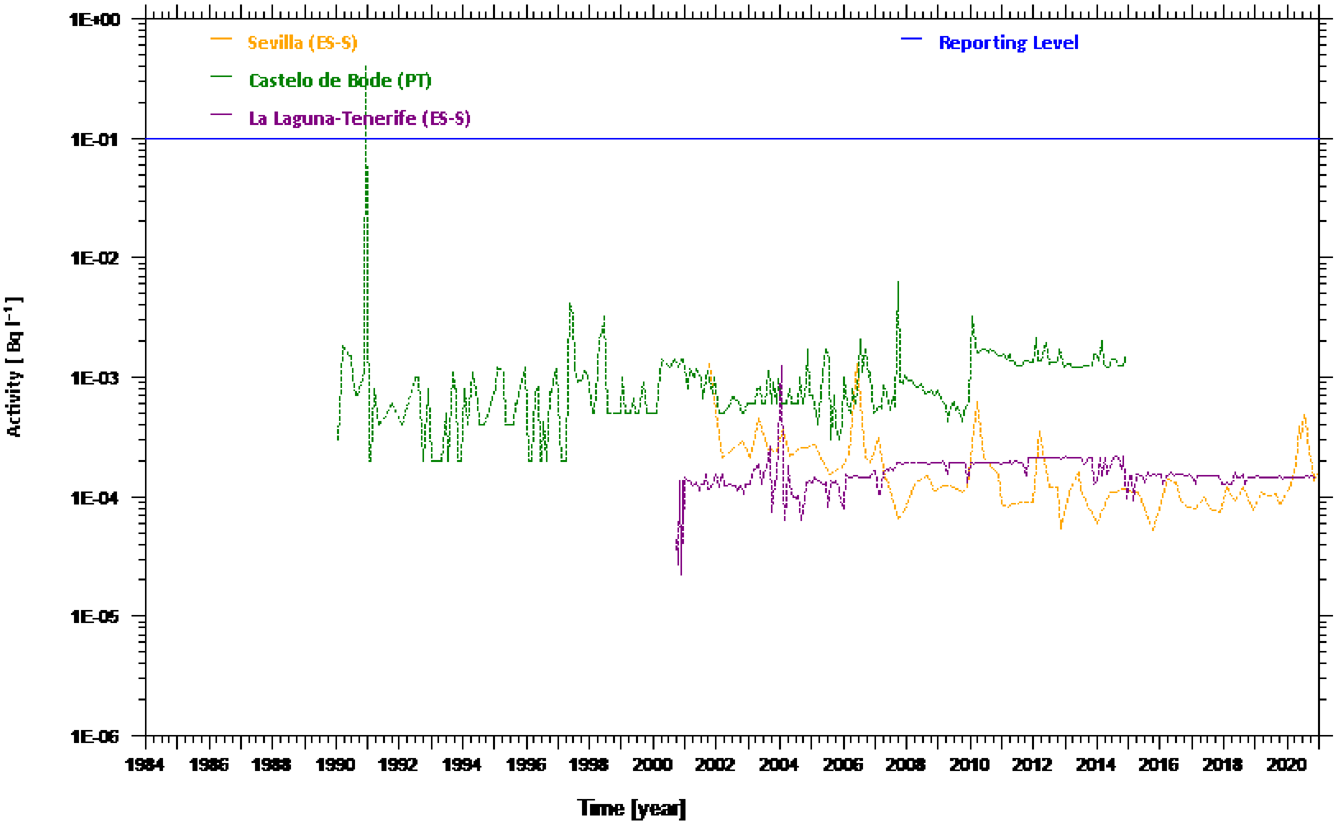


Fig. W46 Activity trends for ^{137}Cs in drinking water (Sevilla, Castelo de Bode and La Laguna-Tenerife)



SPARSE

Activity trends

SAMPLE TYPE : **drinking water (Bq l $^{-1}$)**

NUCLIDE CATEGORY : **caesium-137 (^{137}Cs)**

Fig. W47 Activity trends for ^{137}Cs in drinking water (Sliema, Nicosia and Deva)

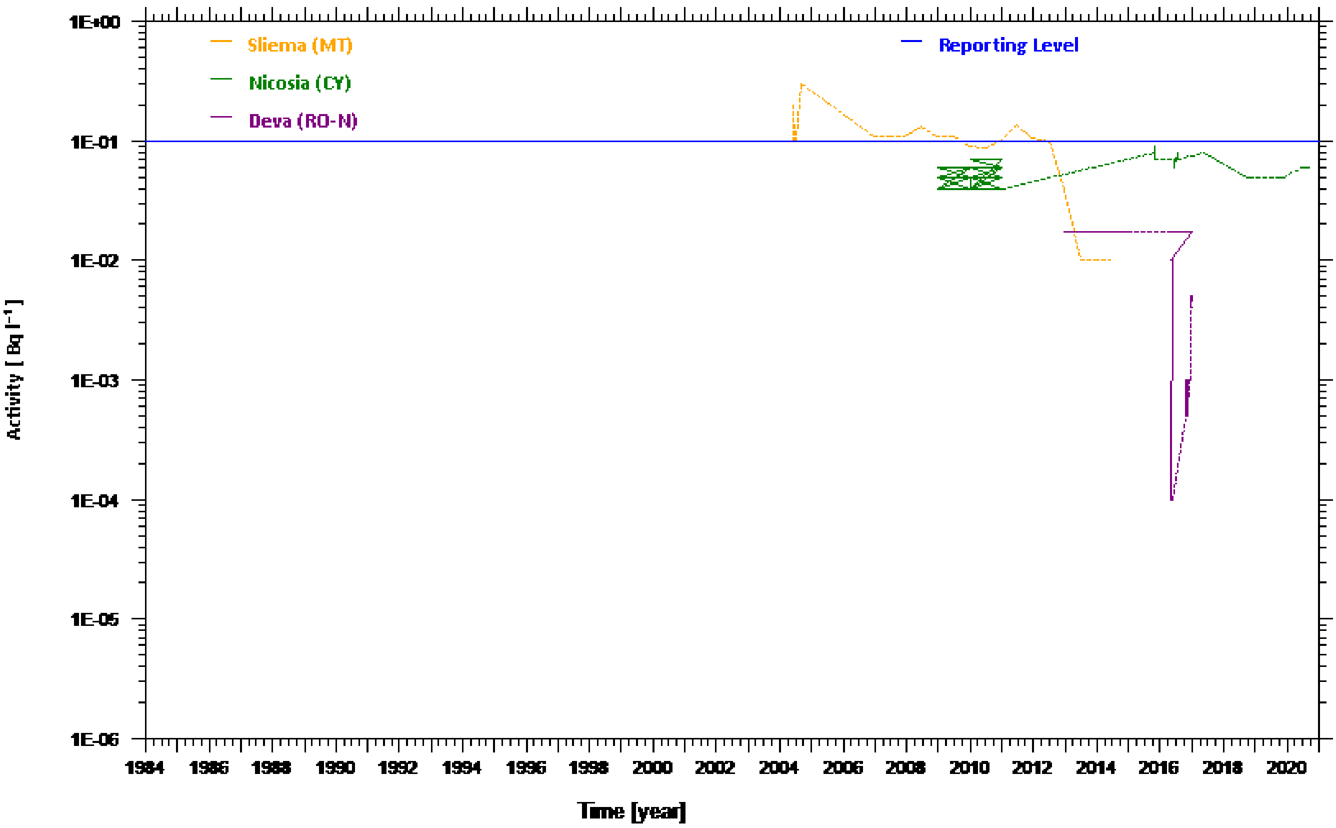
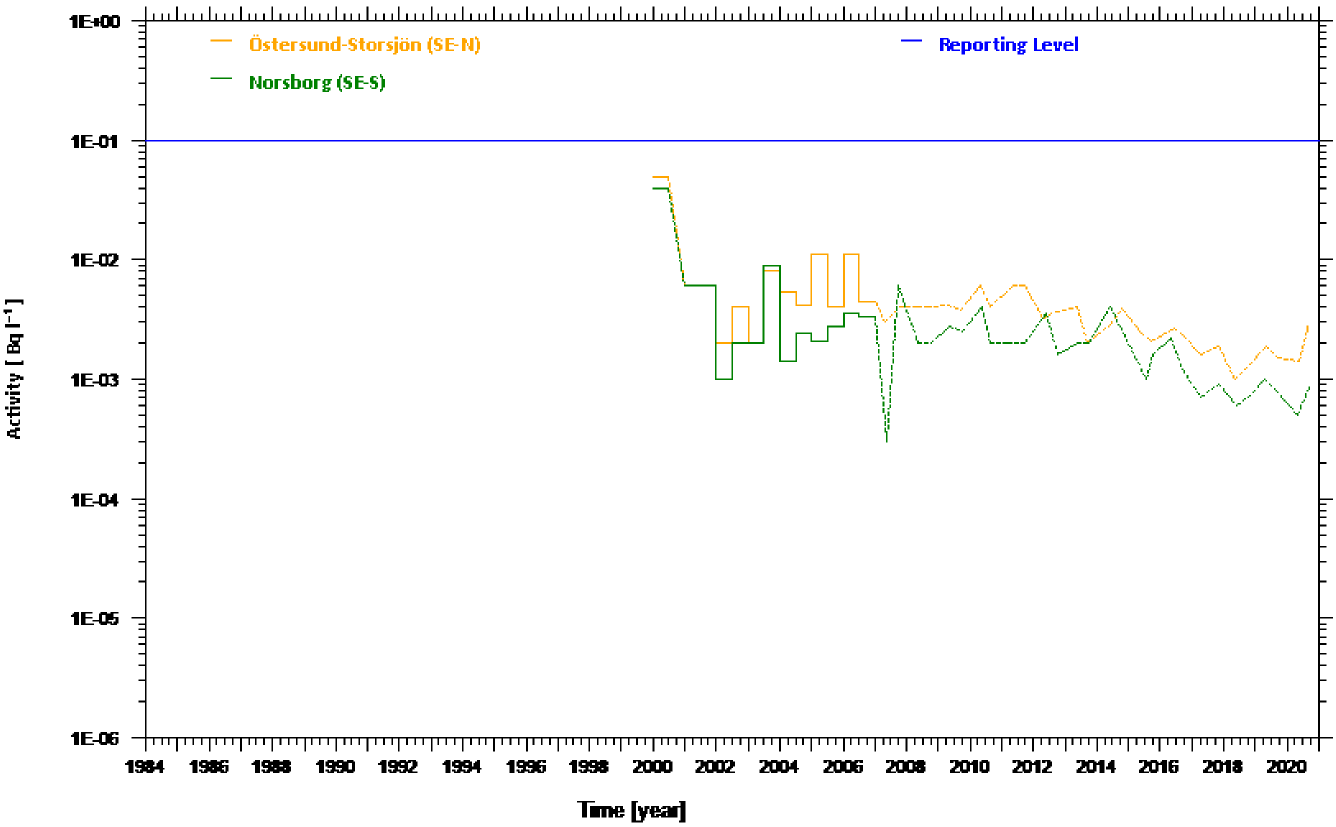


Fig. W48 Activity trends for ^{137}Cs in drinking water (Östersund-Storsjön and Norsborg)



Activity trends

SAMPLE TYPE : drinking water (Bq l $^{-1}$)

NUCLIDE CATEGORY : caesium-137 (^{137}Cs)

SPARSE

Fig. W49 Activity trends for ^{137}Cs in drinking water (Tallinn and Riga)

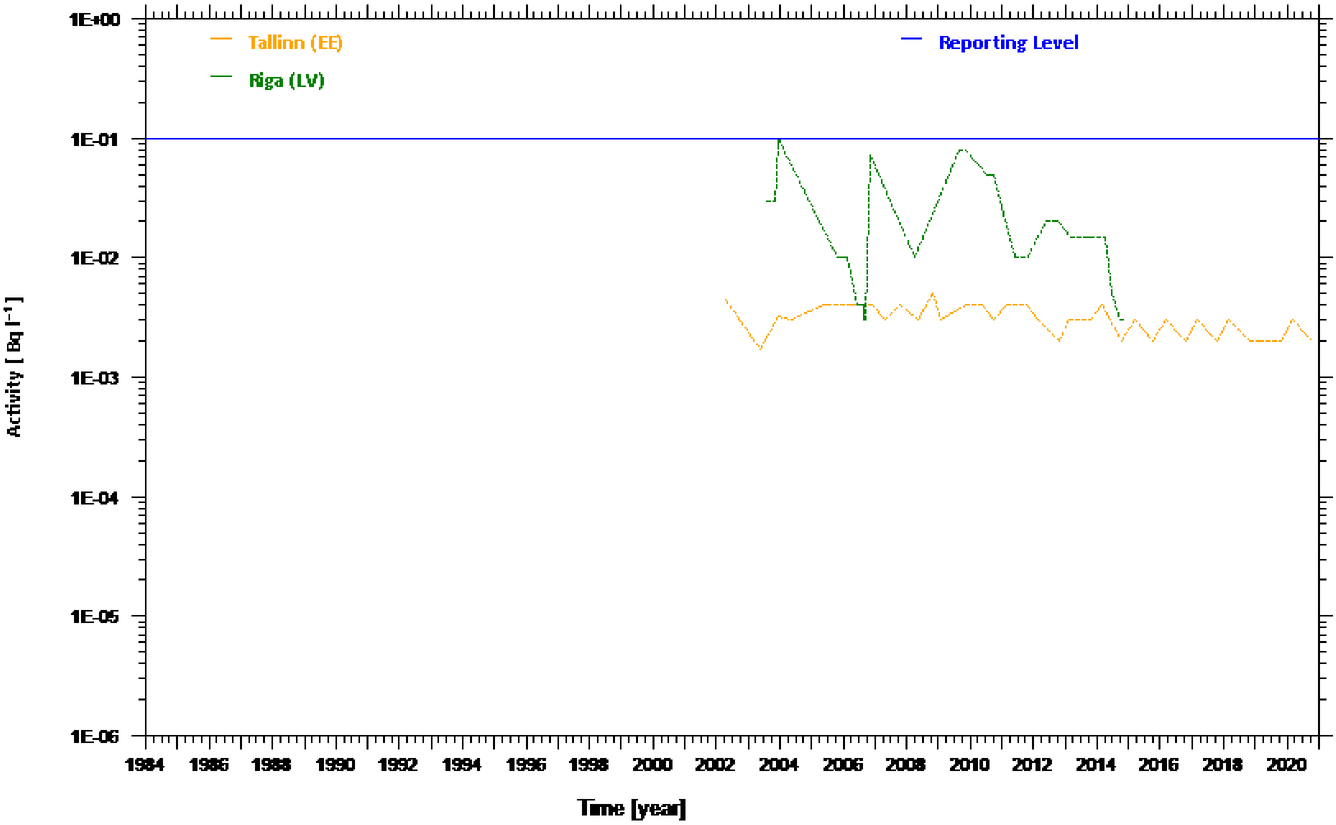


Fig. W50 Activity trends for ^{137}Cs in drinking water (Cornwall, Tunstall and Esch-sur-Sûre)

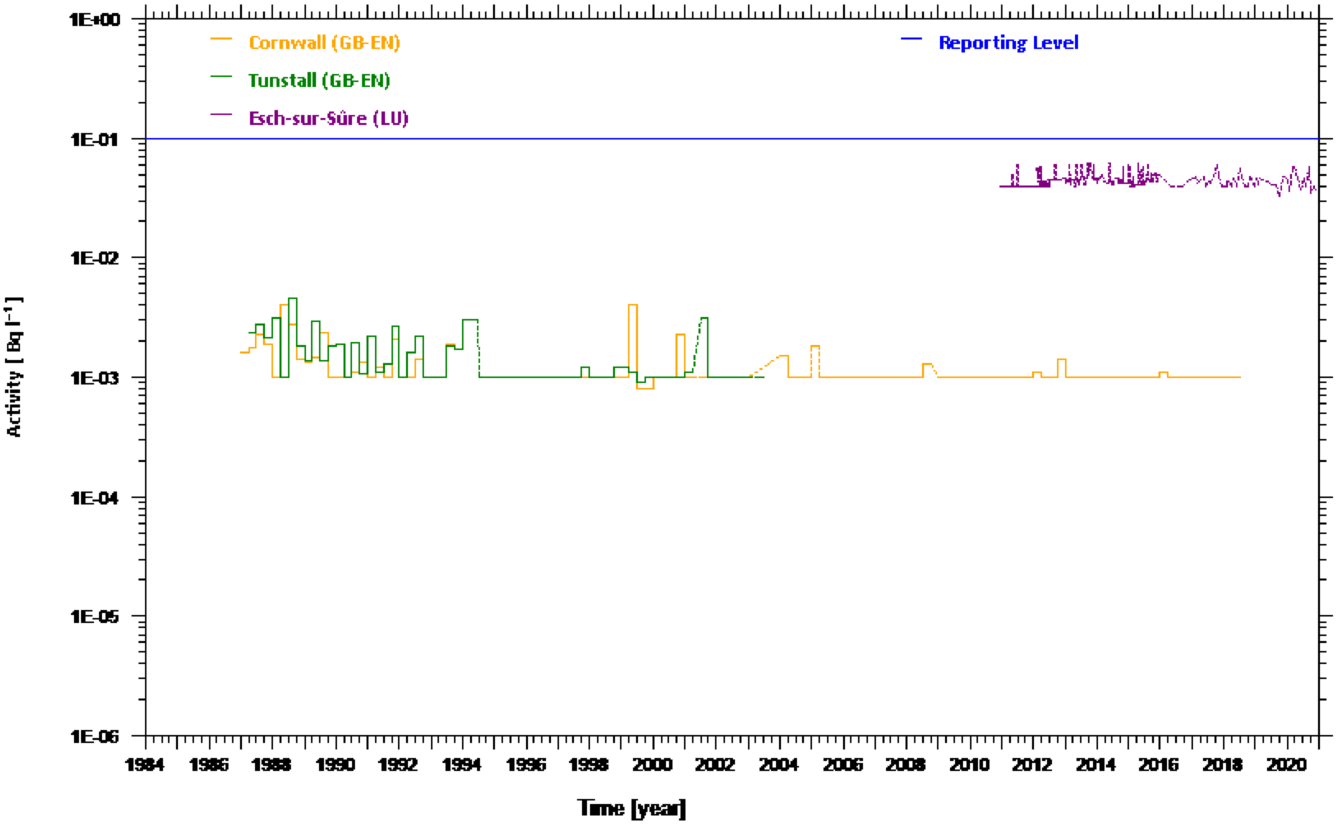


Fig. W51 Activity trends for ^{137}Cs in drinking water (Langelsheim, Wiesbaden and Berlin)

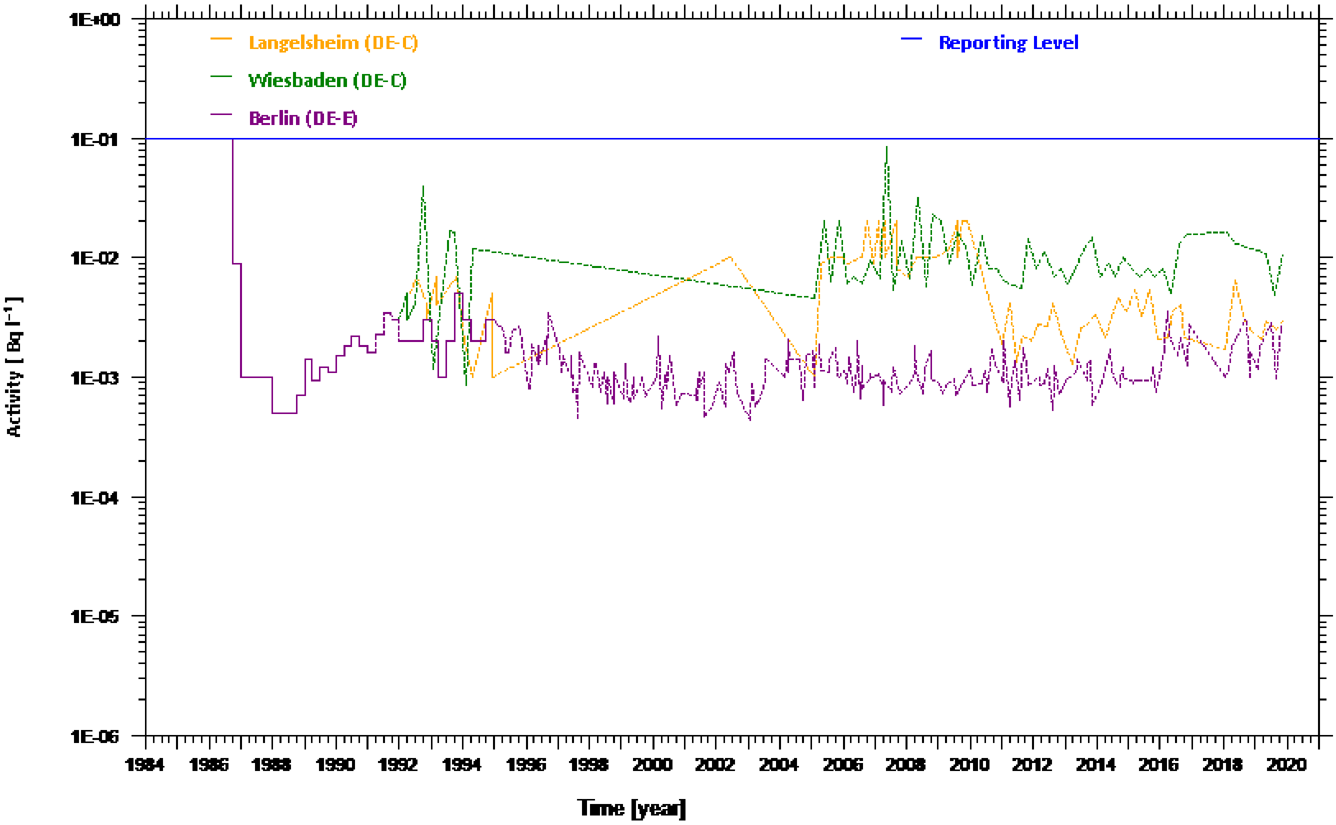


Fig. W52 Activity trends for ^{137}Cs in drinking water (Białystok, Bydgoszcz and Wroclaw)

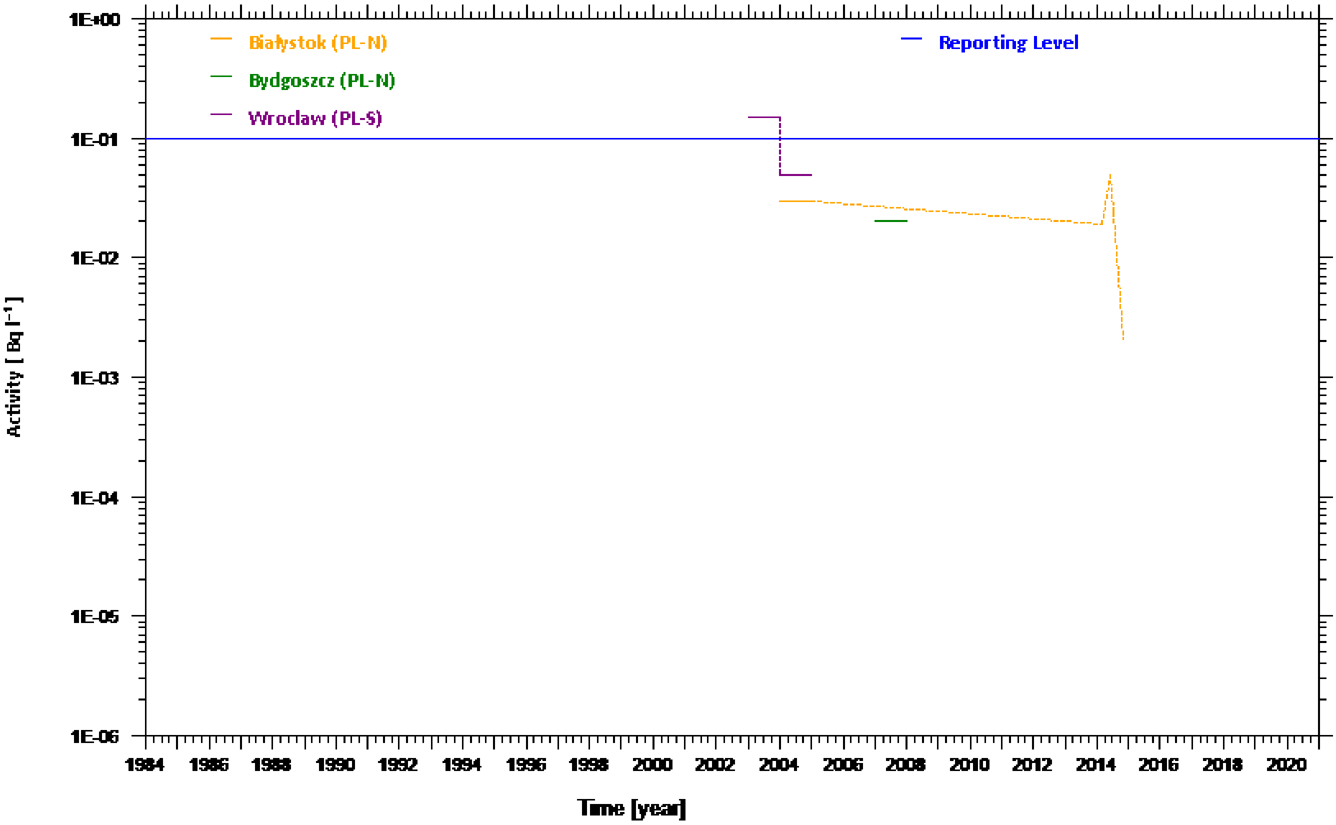


Fig. W53 Activity trends for ^{137}Cs in drinking water (Frauenau and Svihof)

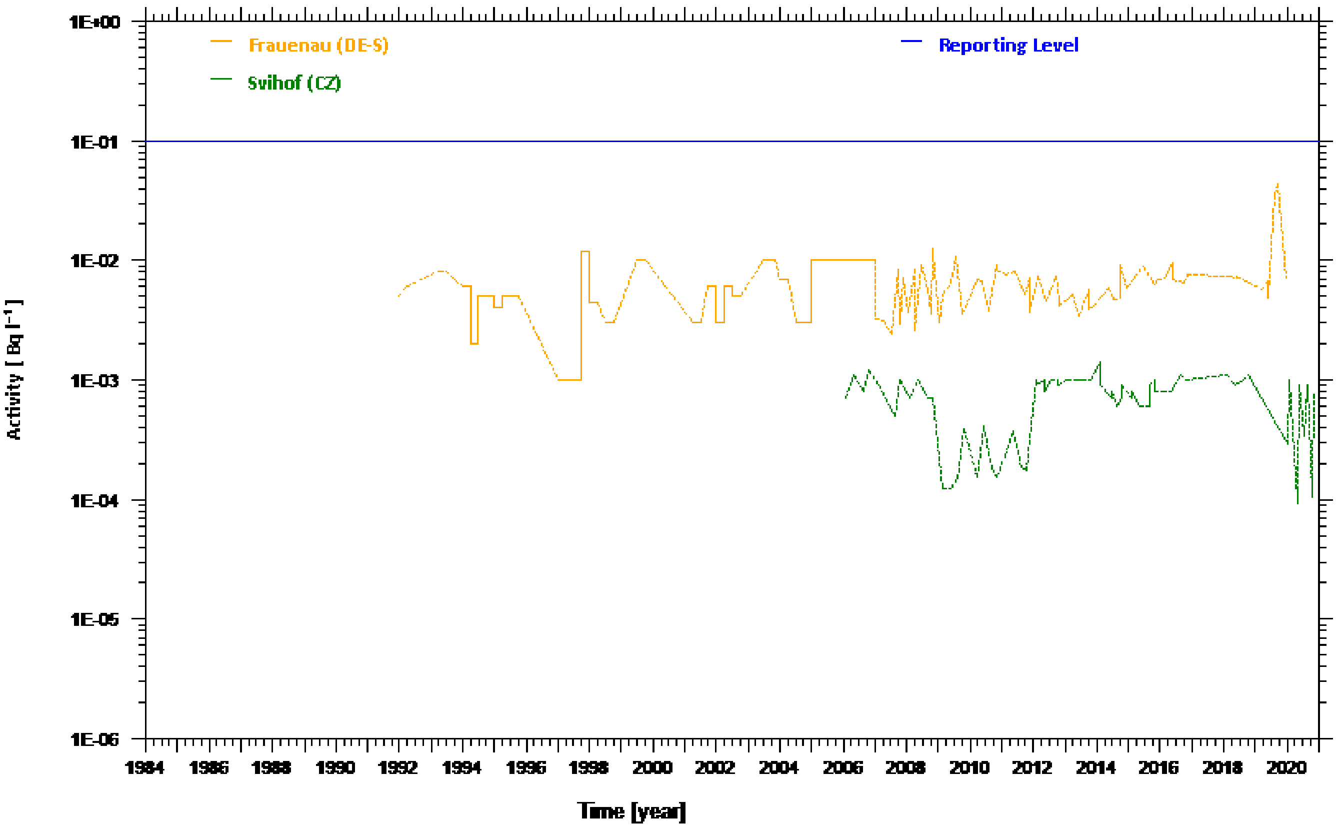
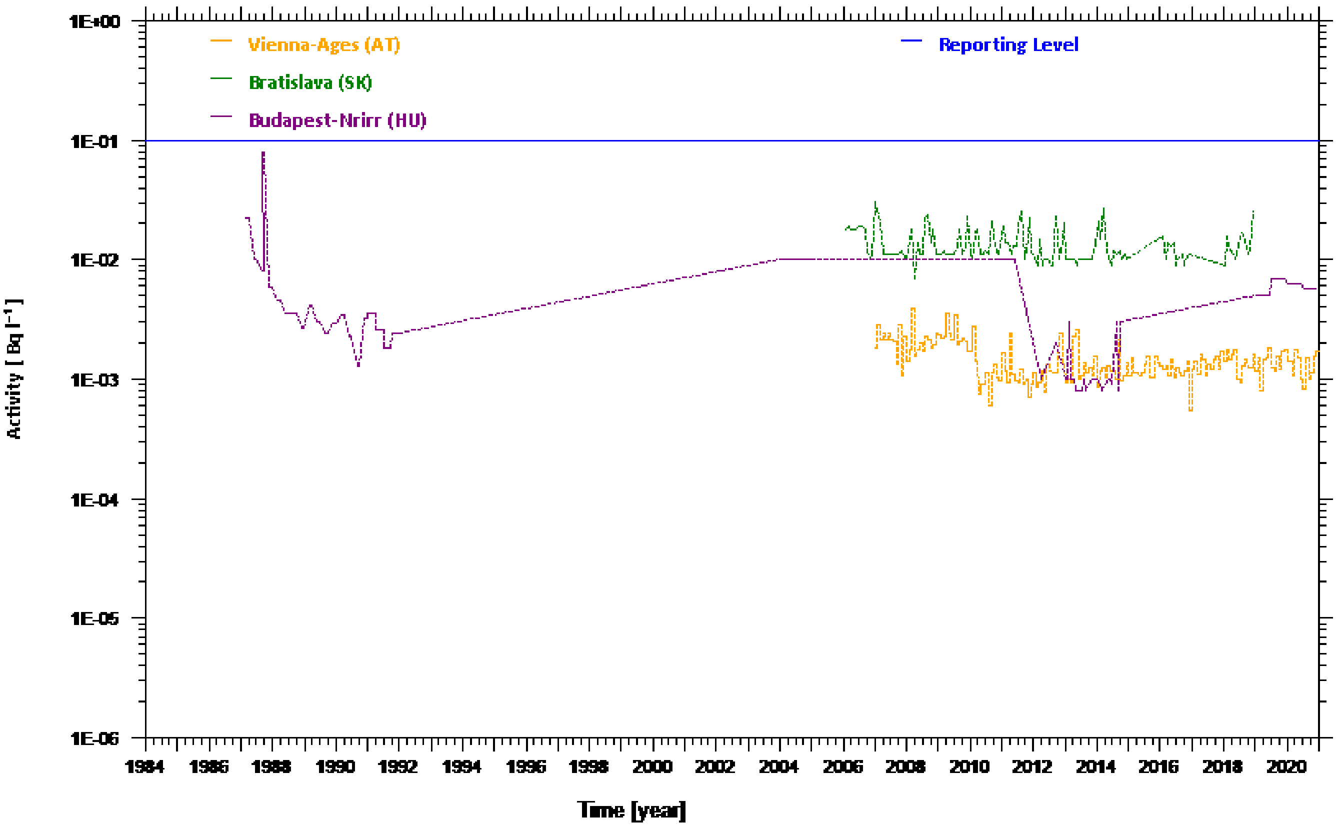


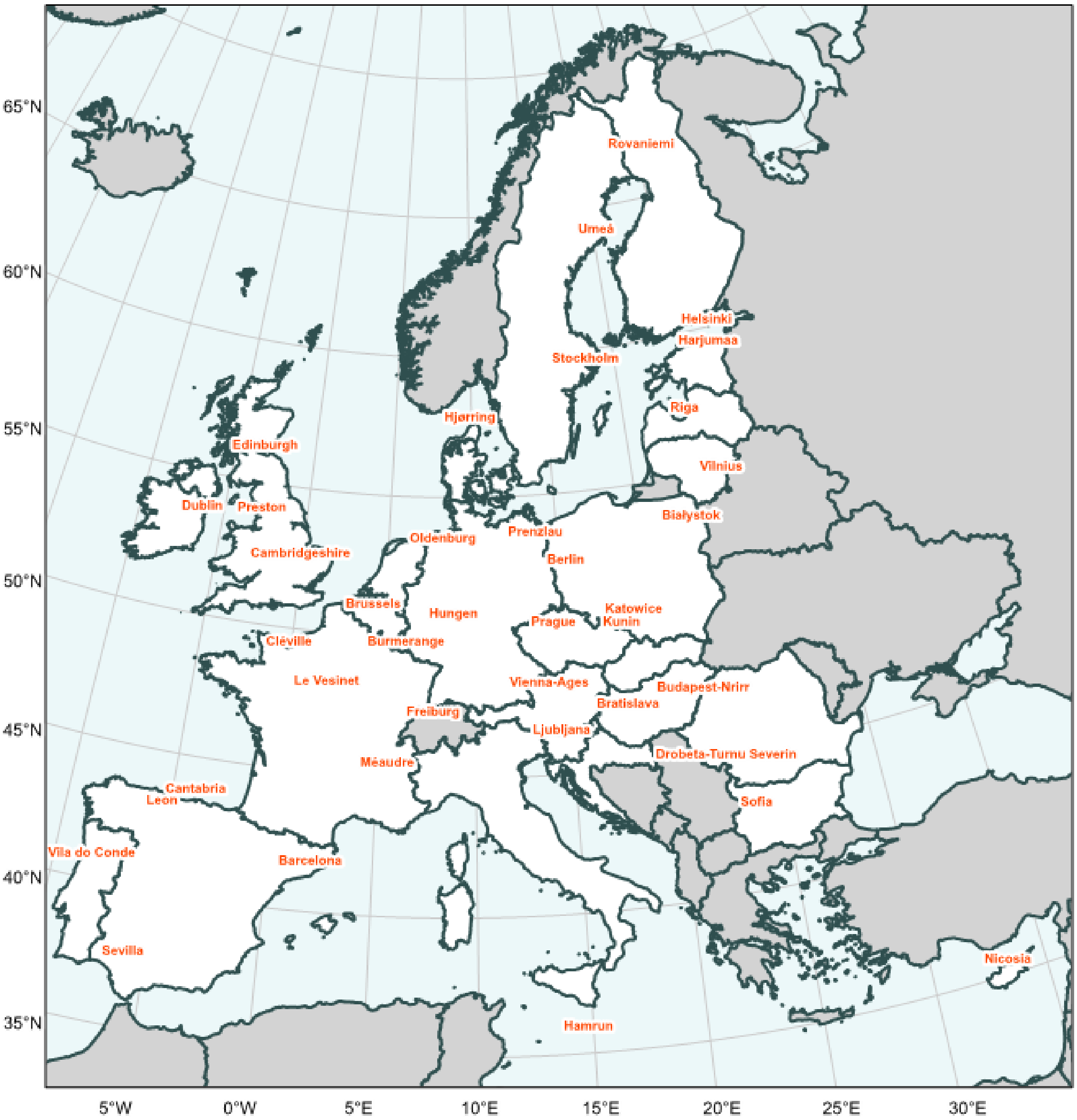
Fig. W54 Activity trends for ^{137}Cs in drinking water (Vienna-Ages, Bratislava and Budapest-Nrirr)



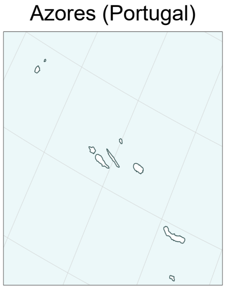
SPARSE

Fig. M13

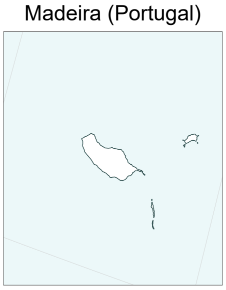
Sampling locations for ^{90}Sr and ^{137}Cs in milk considered in Figures M14 – M45



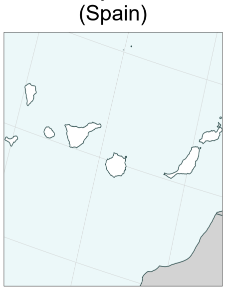
Azores (Portugal)



Madeira (Portugal)



Canary Islands (Spain)



Malta

Fig. M14 Activity trends for ^{90}Sr in milk (Hjørring, Rovaniemi and Helsinki)

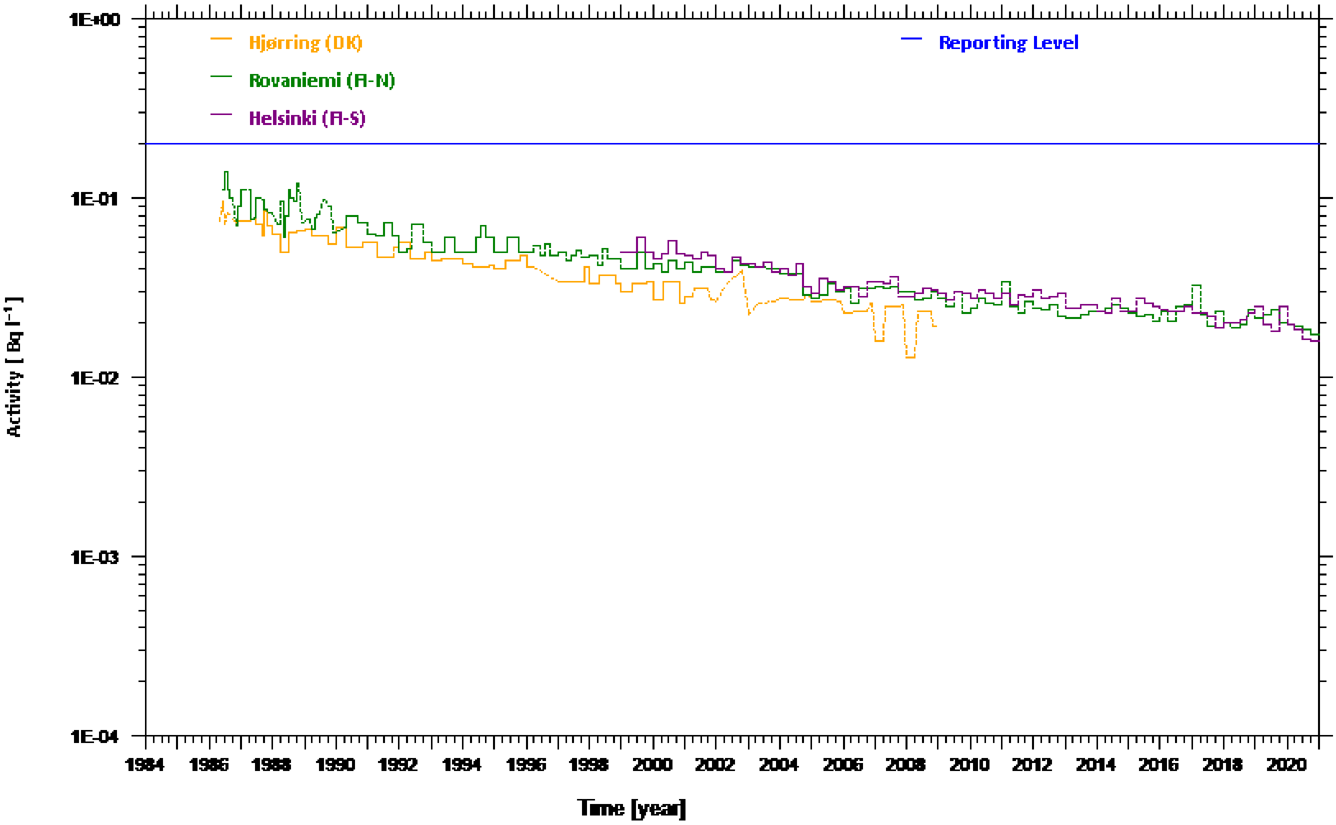
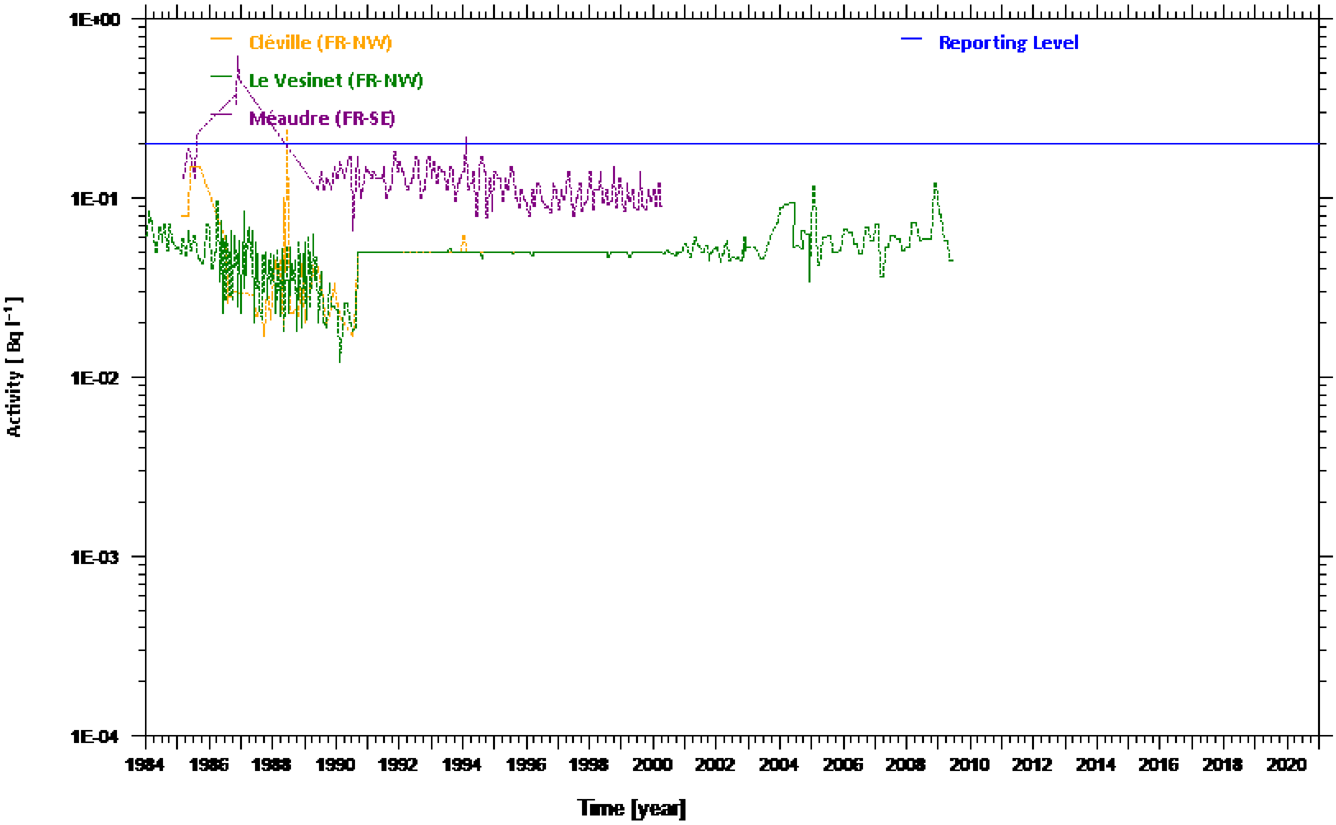


Fig. M15 Activity trends for ^{90}Sr in milk (Cléville, Le Vesinet and Méaudre)



Activity trends

SAMPLE TYPE : milk (Bq l^{-1})

NUCLIDE CATEGORY : strontium-90 (^{90}Sr)

SPARSE

Fig. M16 Activity trends for ^{90}Sr in milk (Ljubljana and Budapest-Nrirr)

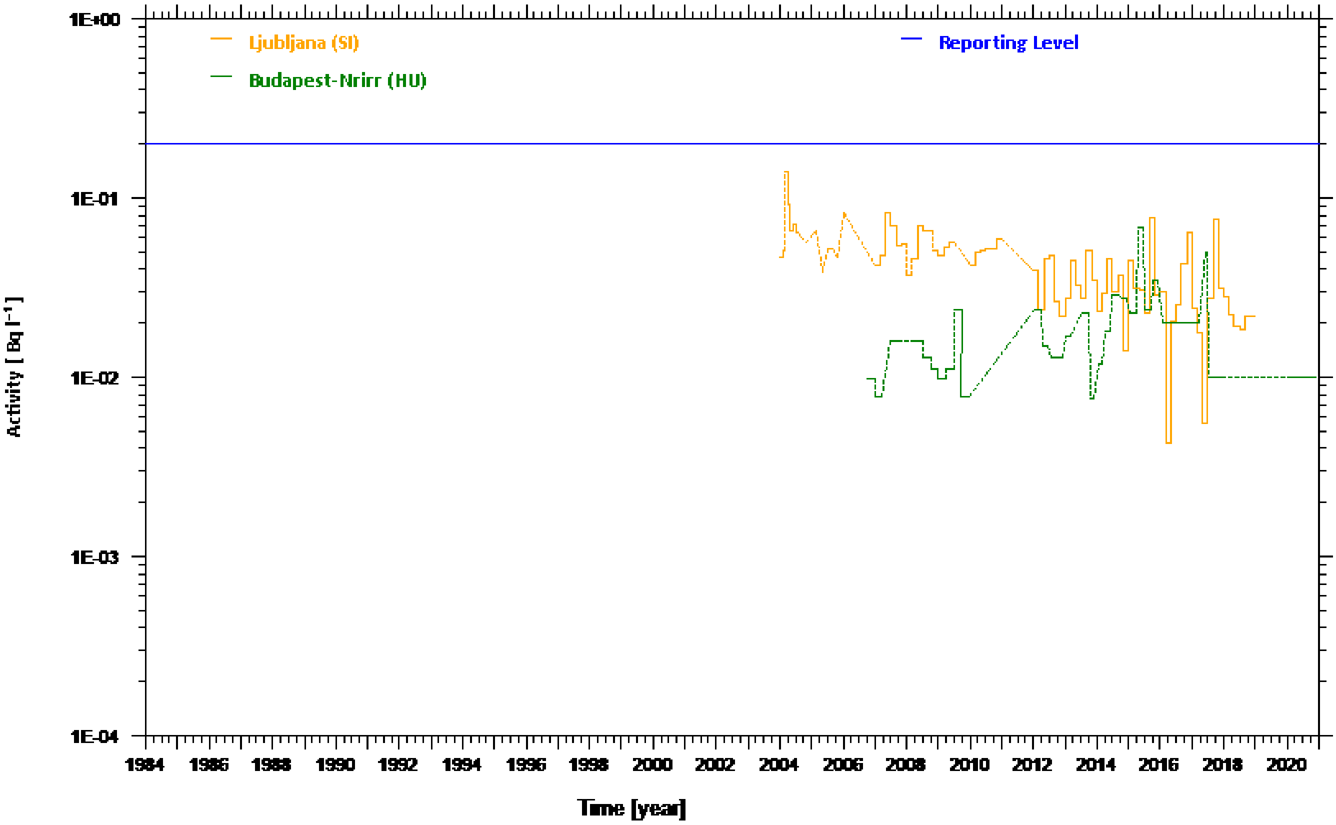


Fig. M17 Activity trends for ^{90}Sr in milk (Sofia and Nicosia)

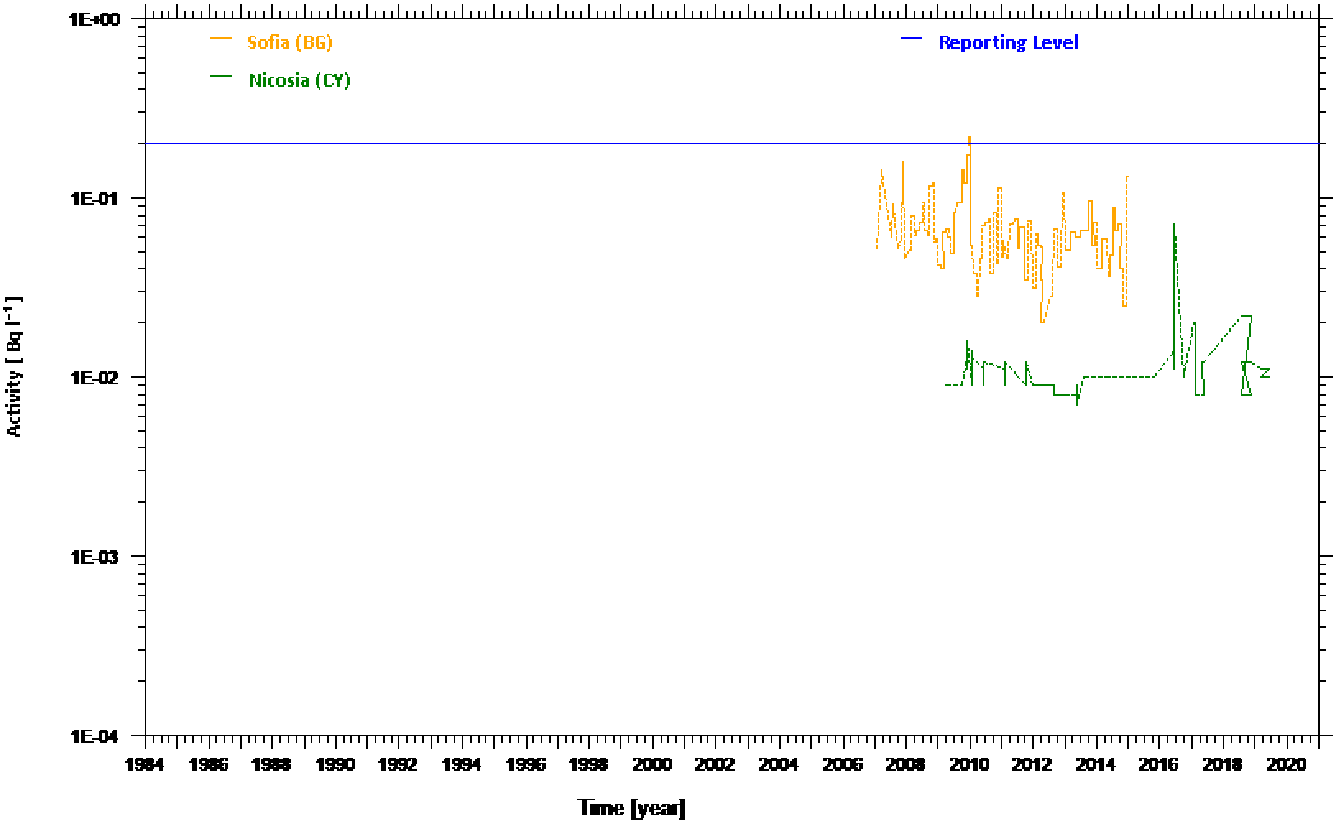


Fig. M18 Activity trends for ^{90}Sr in milk (Cantabria, Leon and Barcelona)

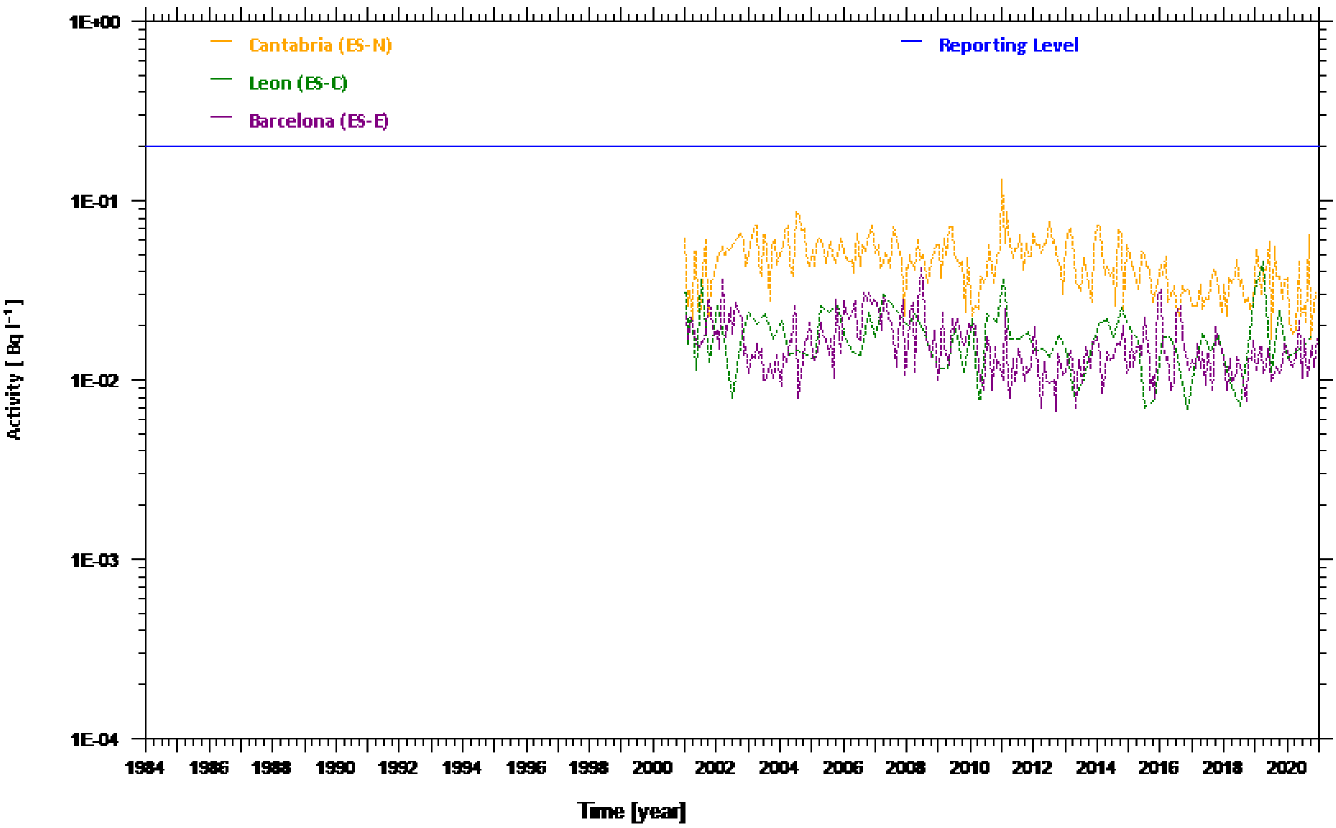
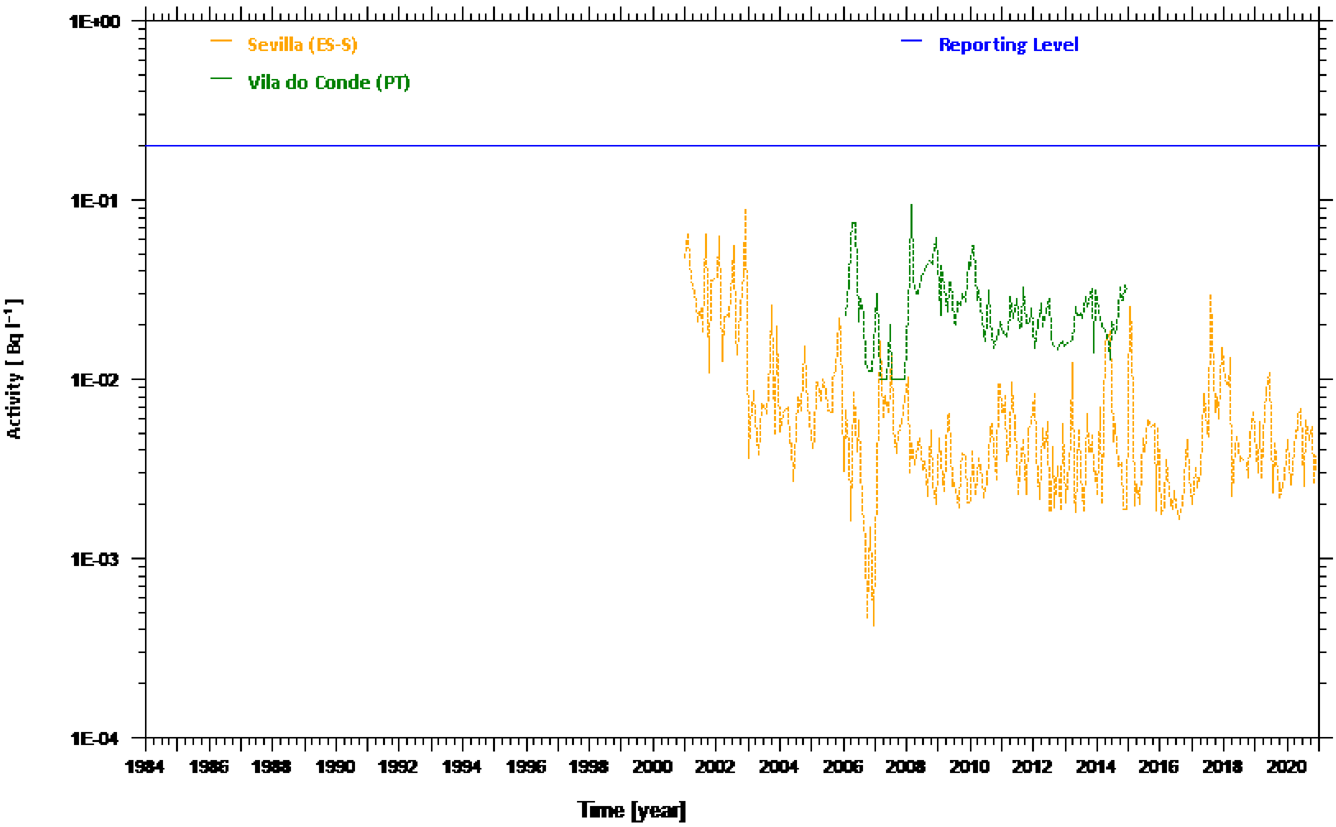


Fig. M19 Activity trends for ^{90}Sr in milk (Sevilla and Vila do Conde)



Activity trends
SAMPLE TYPE : milk (Bq l $^{-1}$)
NUCLIDE CATEGORY : strontium-90 (^{90}Sr)

SPARSE

Fig. M20 Activity trends for ^{90}Sr in milk (Hamrun and Drobeta-Turnu Severin)

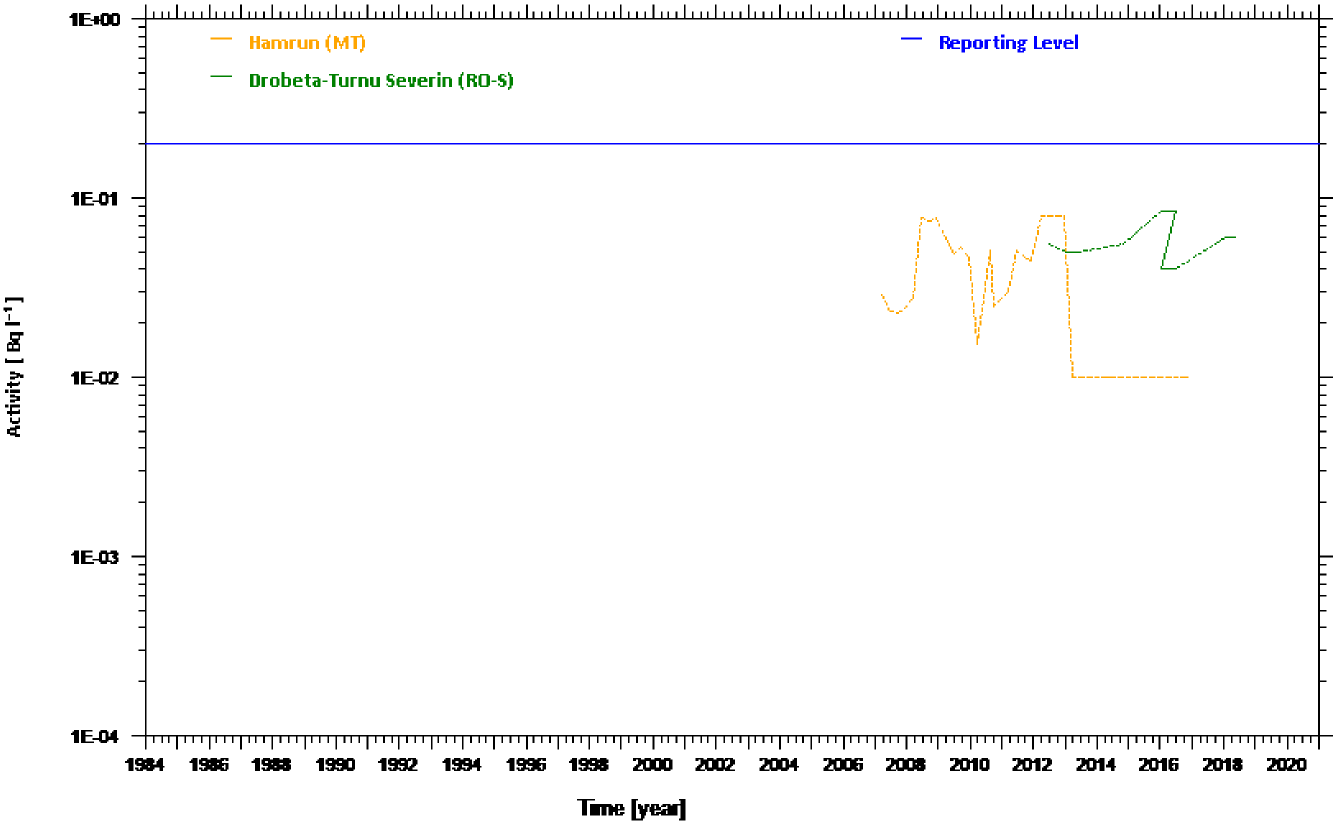


Fig. M21 Activity trends for ^{90}Sr in milk (Umeå and Stockholm)

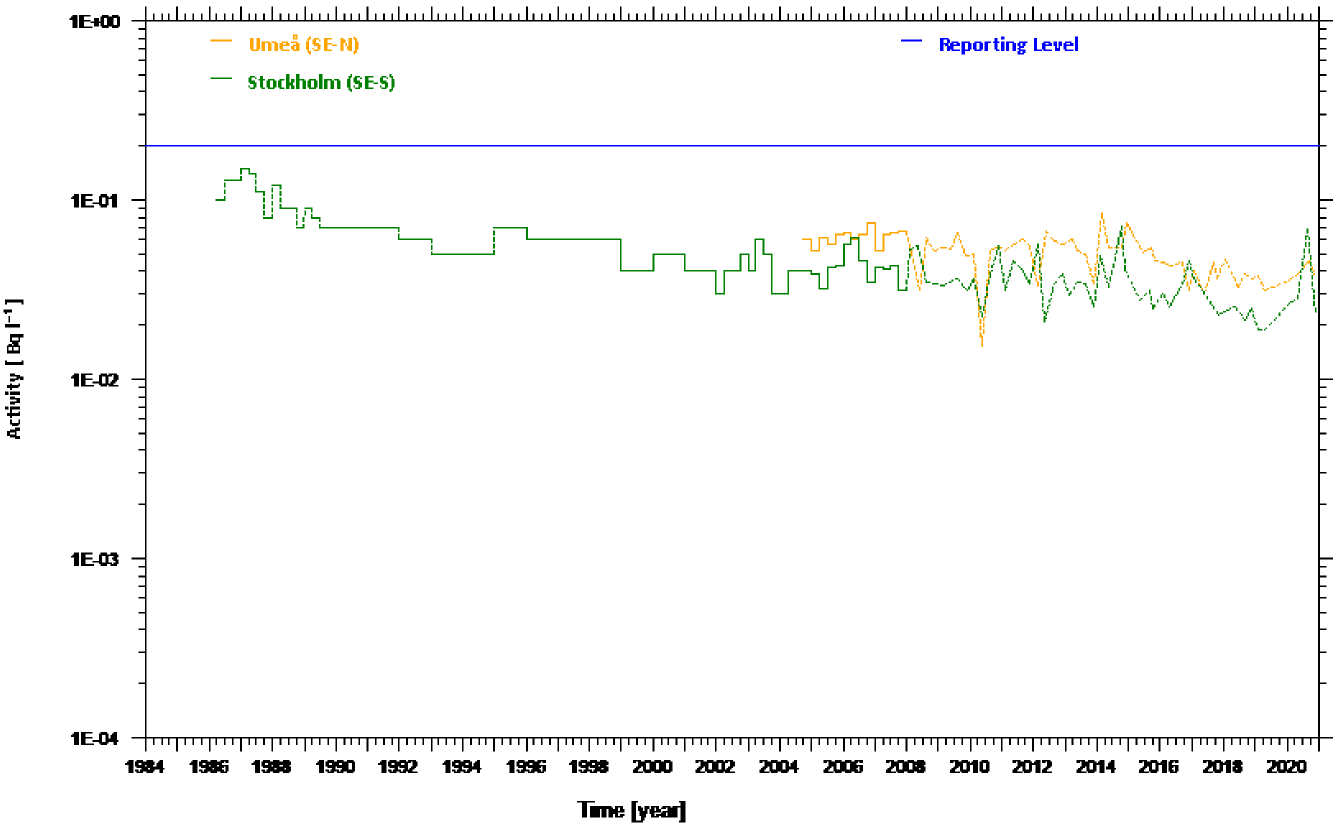


Fig. M22 Activity trends for ^{90}Sr in milk (Harjumaa, Riga and Vilnius)

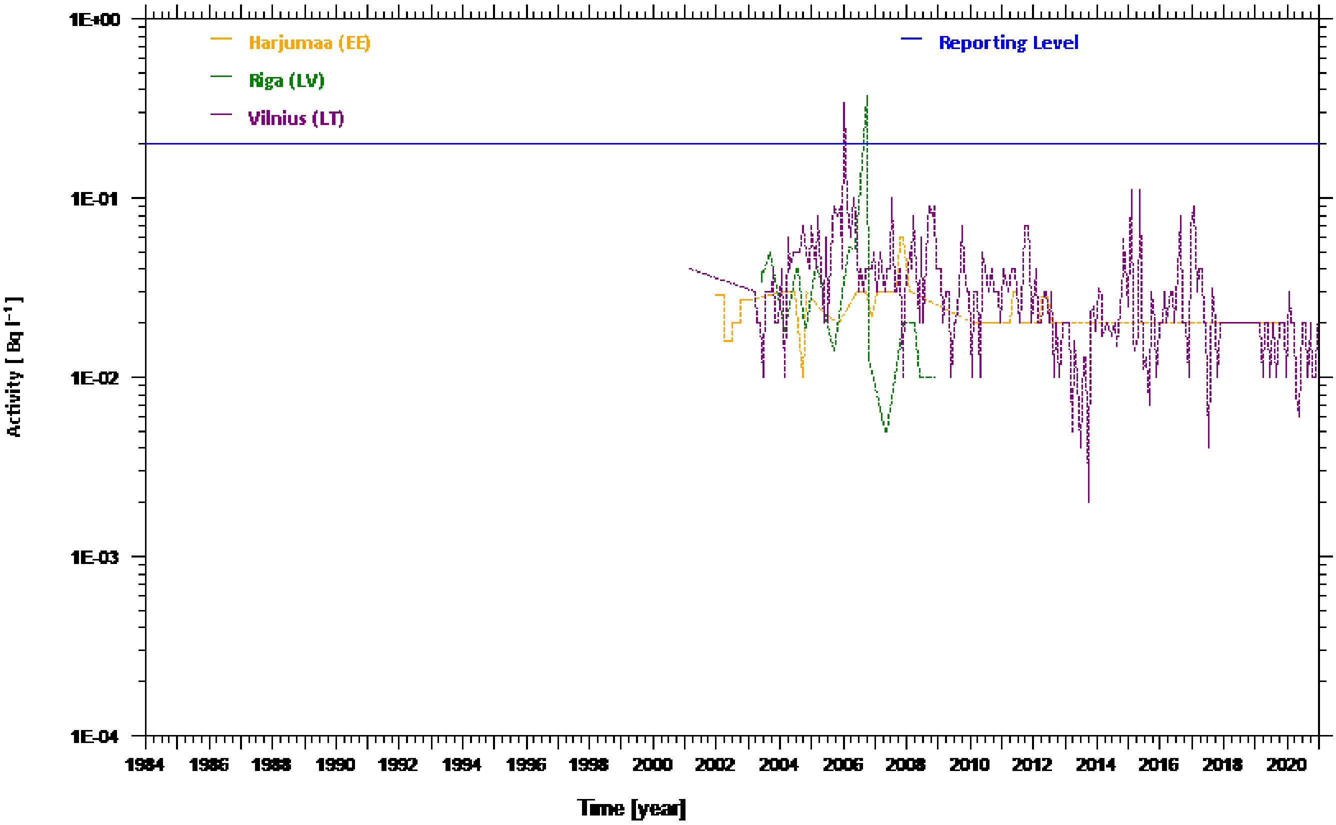
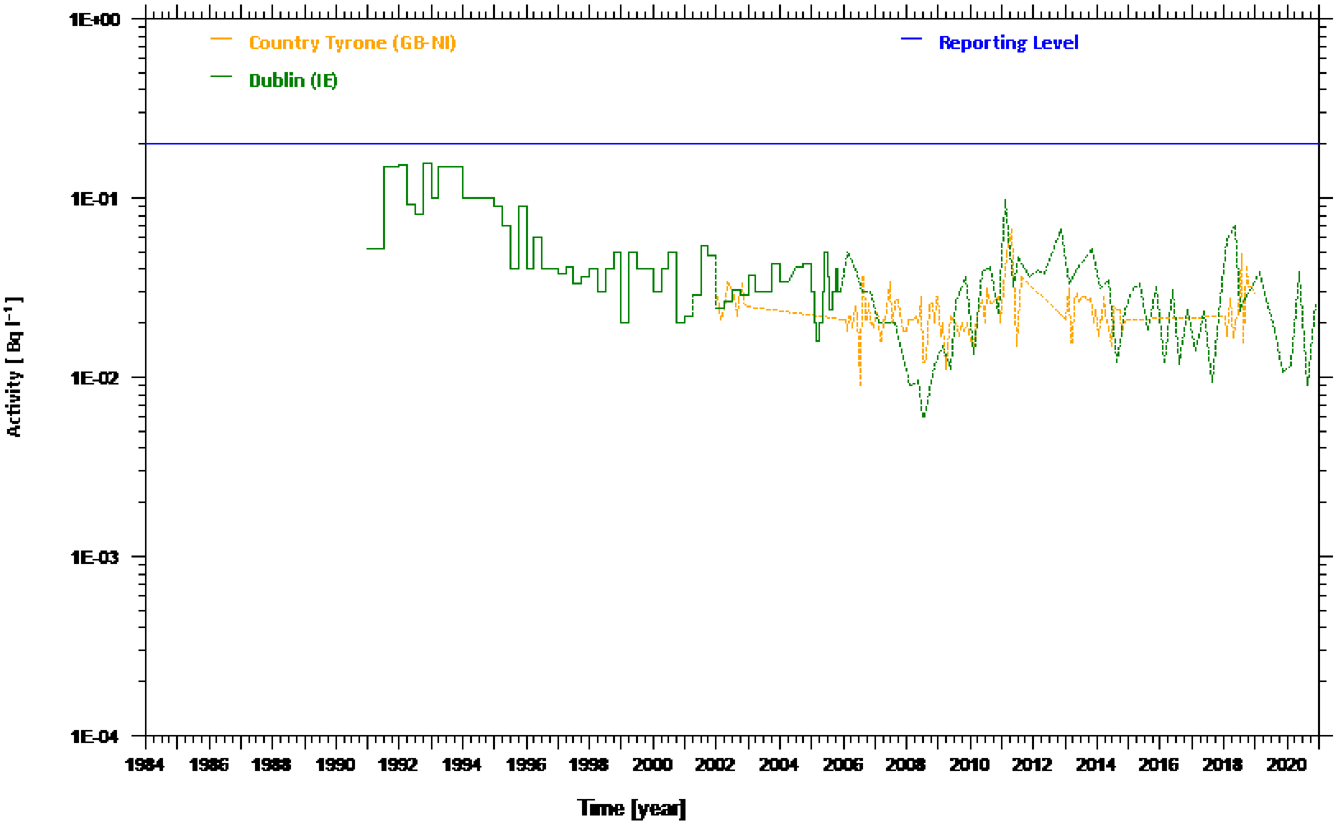


Fig. M23 Activity trends for ^{90}Sr in milk (Country Tyrone and Dublin)



Activity trends
SAMPLE TYPE : milk (Bq l $^{-1}$)
NUCLIDE CATEGORY : strontium-90 (^{90}Sr)

SPARSE

Fig. M24 Activity trends for ^{90}Sr in milk (Cambridgeshire, Edinburgh and Gwent)

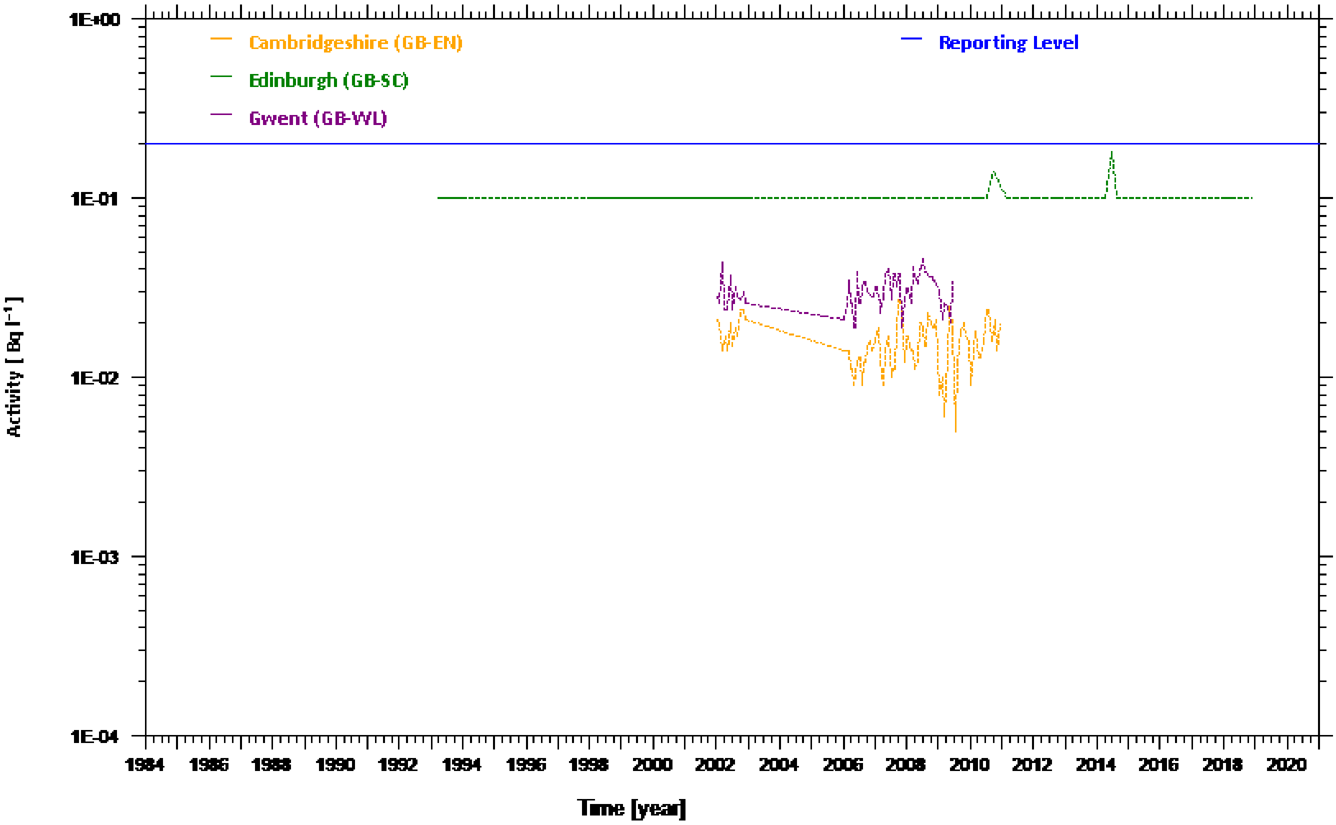


Fig. M25 Activity trends for ^{90}Sr in milk (Prenzlau, Oldenburg and Hungen)

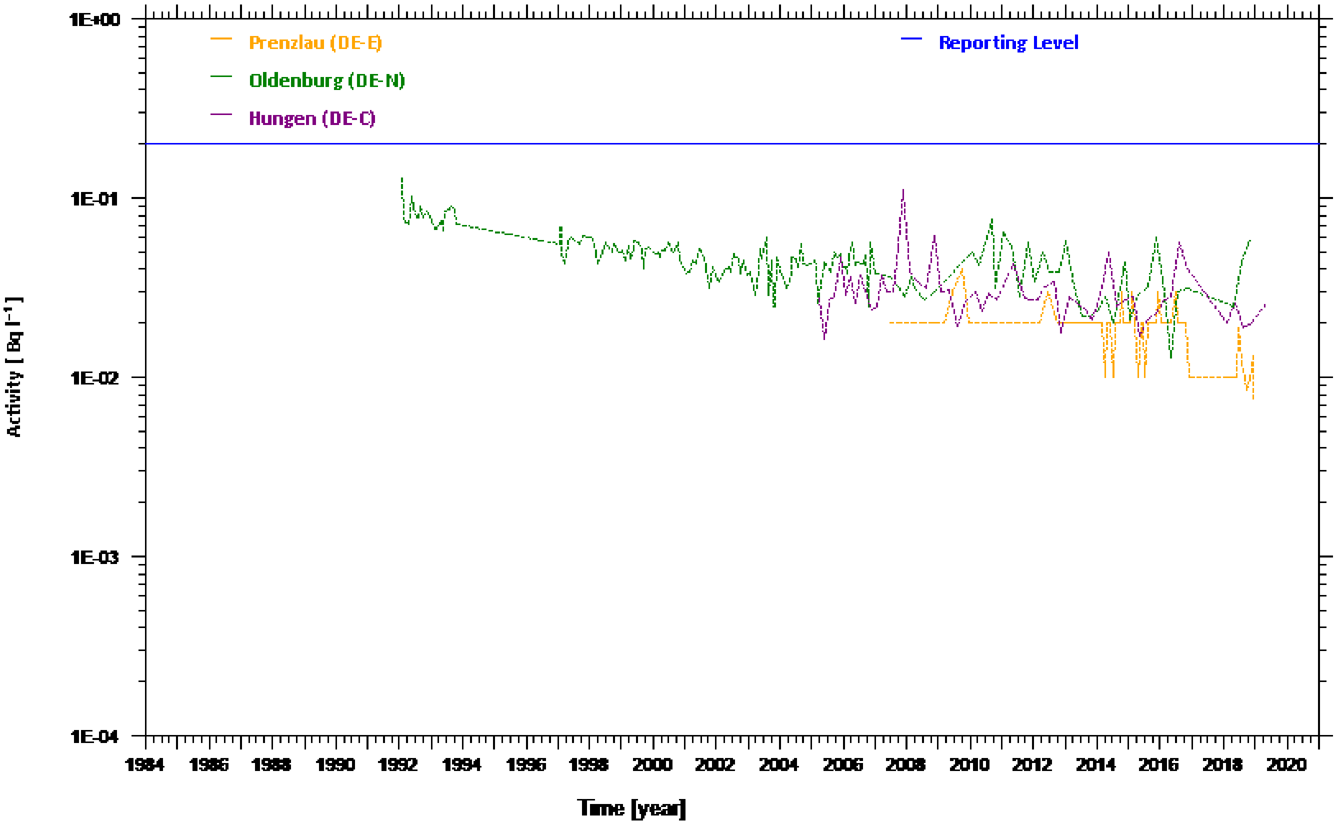


Fig. M26 Activity trends for ^{90}Sr in milk (Berlin and Freiburg)

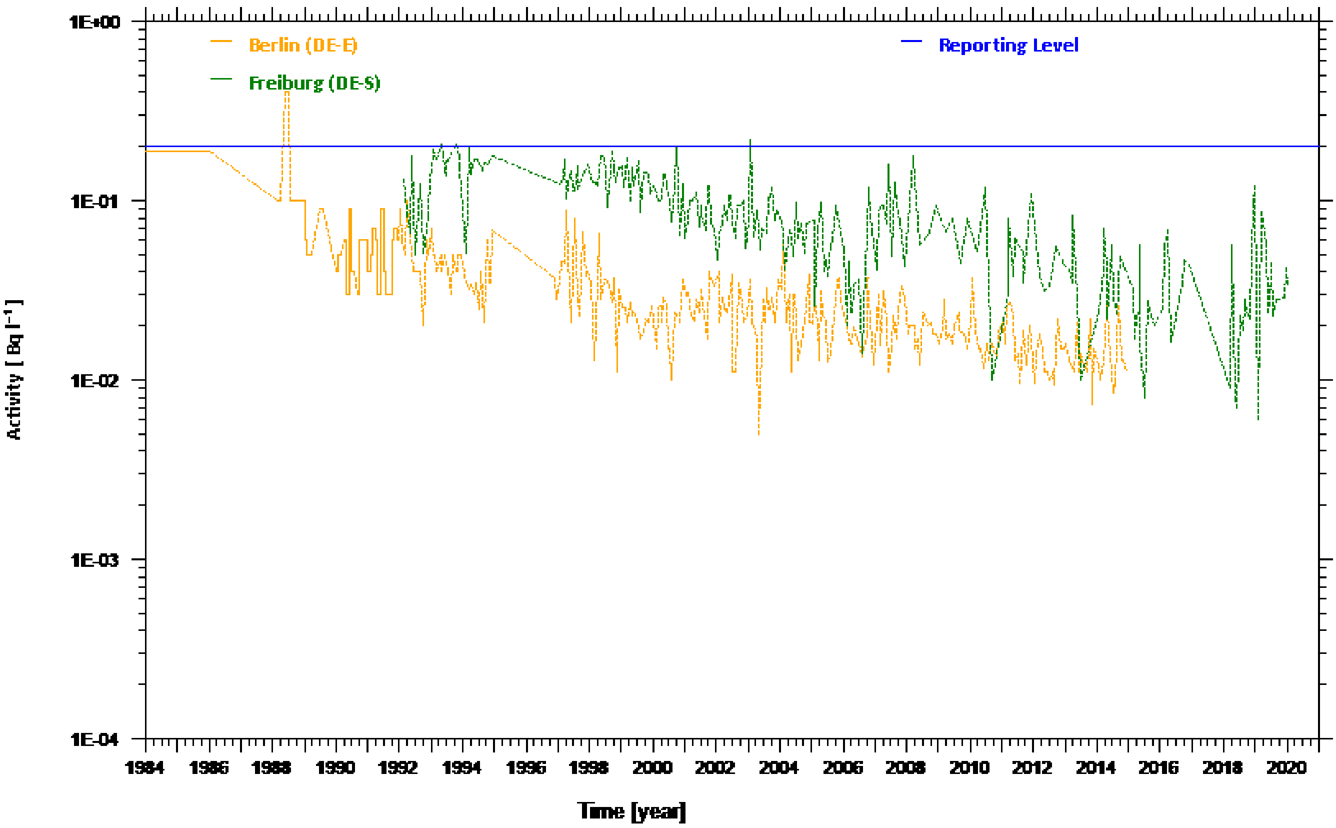
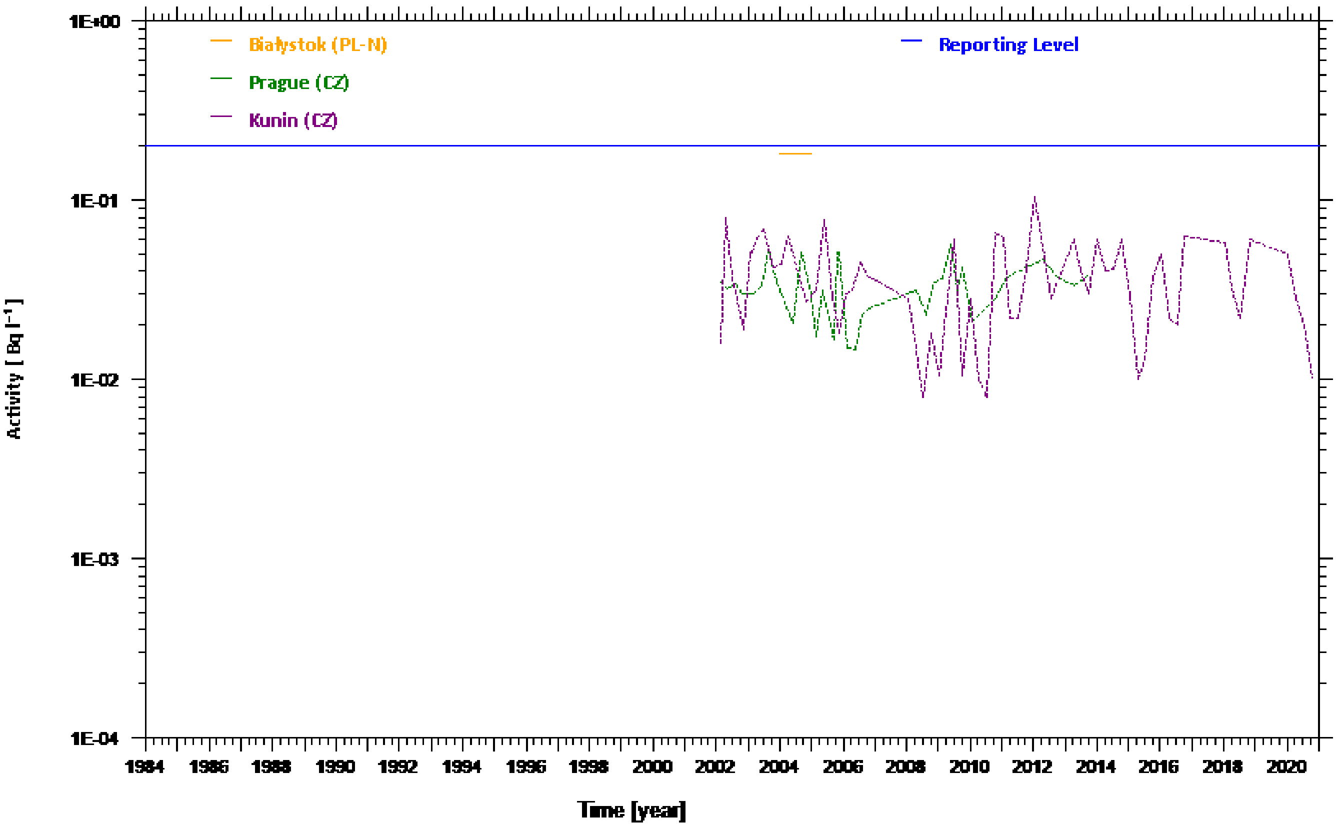


Fig. M27 Activity trends for ^{90}Sr in milk (Białystok, Prague and Kunin)

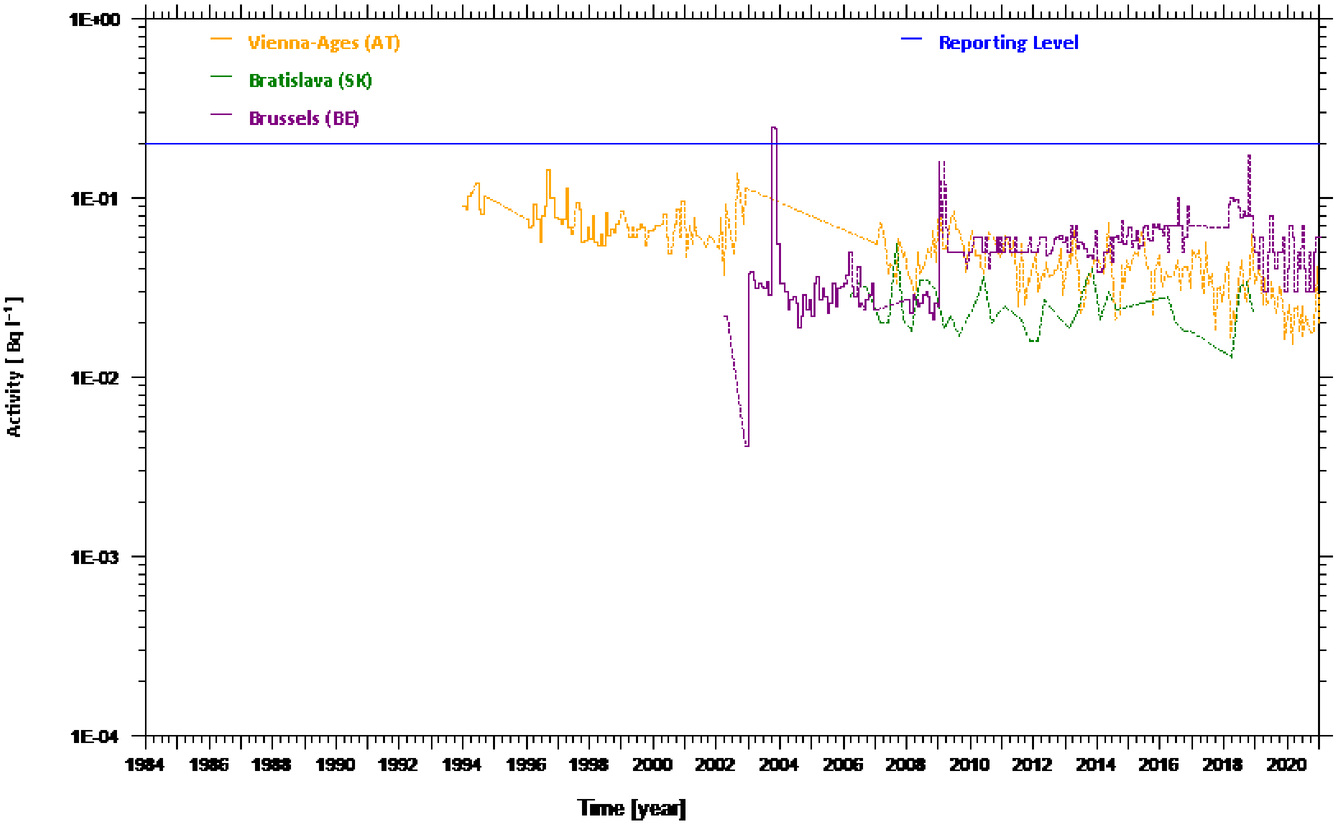


Activity trends

SAMPLE TYPE	:	milk (Bq l $^{-1}$)
NUCLIDE CATEGORY	:	strontium-90 (^{90}Sr)

SPARSE

Fig. M28 Activity trends for ^{90}Sr in milk (Vienna-Ages, Bratislava and Brussels)



Activity trends

SAMPLE TYPE	:	milk (Bq l $^{-1}$)
NUCLIDE CATEGORY	:	caesium-137 (^{137}Cs)

SPARSE

Fig. M29 Activity trends for ^{137}Cs in milk (Hjørring, Rovaniemi and Helsinki)

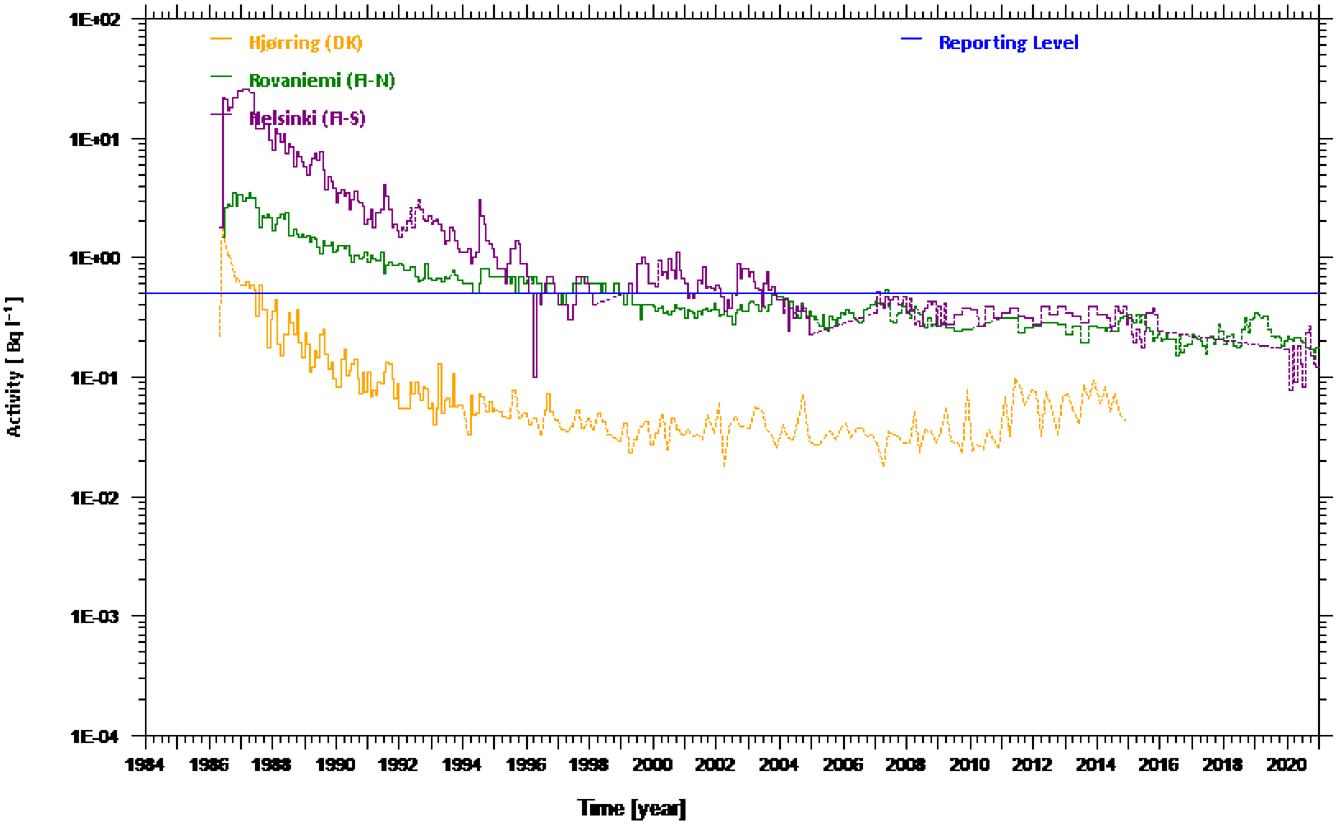
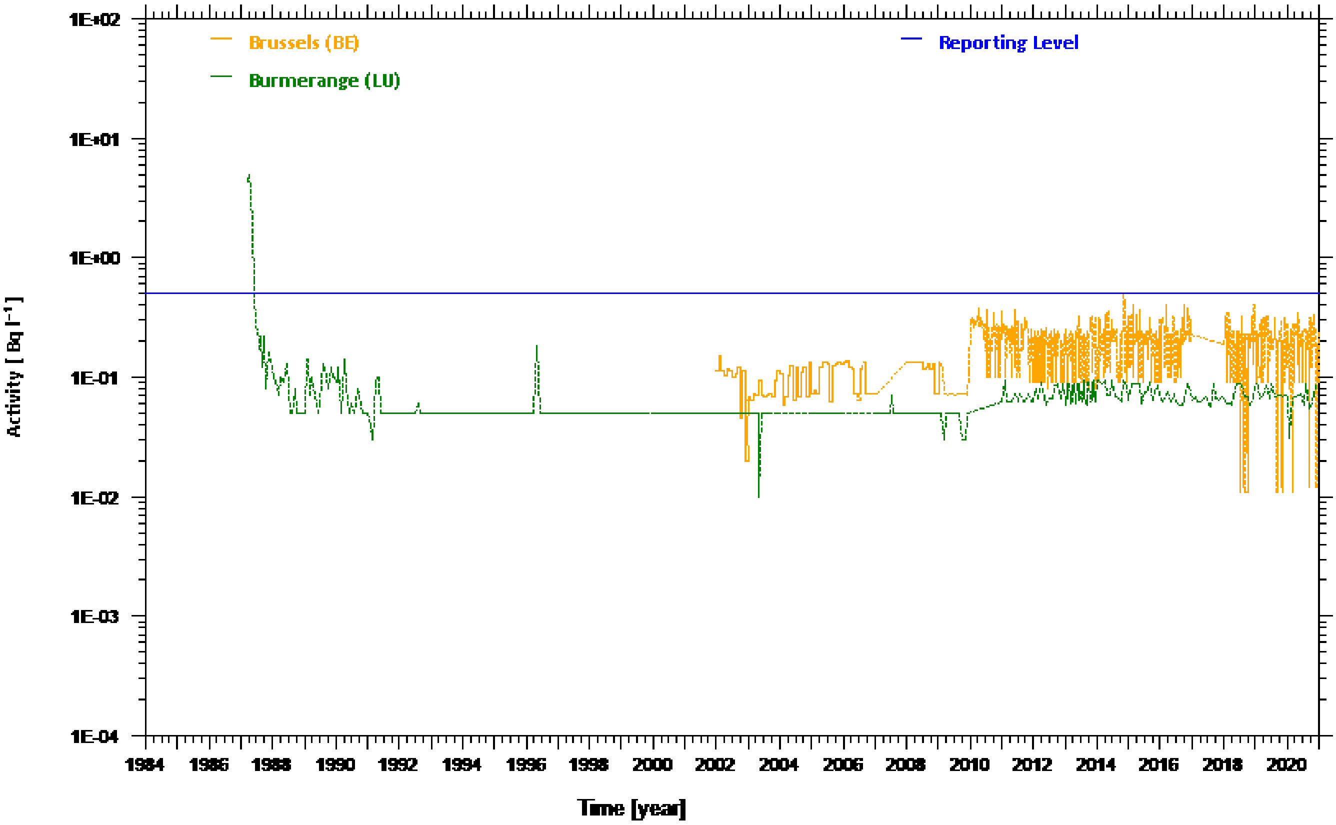


Fig. M30 Activity trends for ^{137}Cs in milk (Brussels and Burmerange)



Activity trends

SAMPLE TYPE : milk (Bq l $^{-1}$)

NUCLIDE CATEGORY : caesium-137 (^{137}Cs)

SPARSE

Fig. M31 Activity trends for ^{137}Cs in milk (Prague and Kunin)

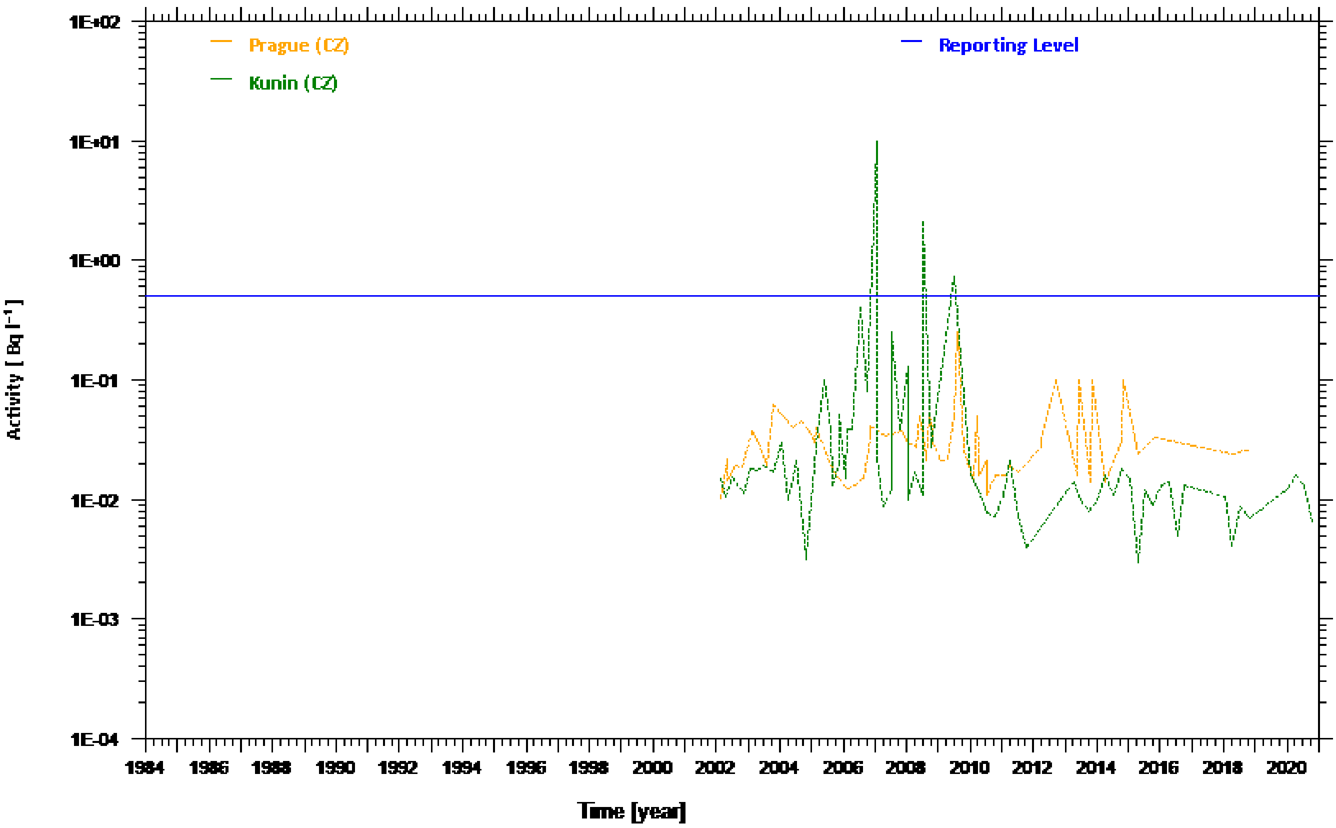


Fig. M32 Activity trends for ^{137}Cs in milk (Méaudre and Le Vesinet)

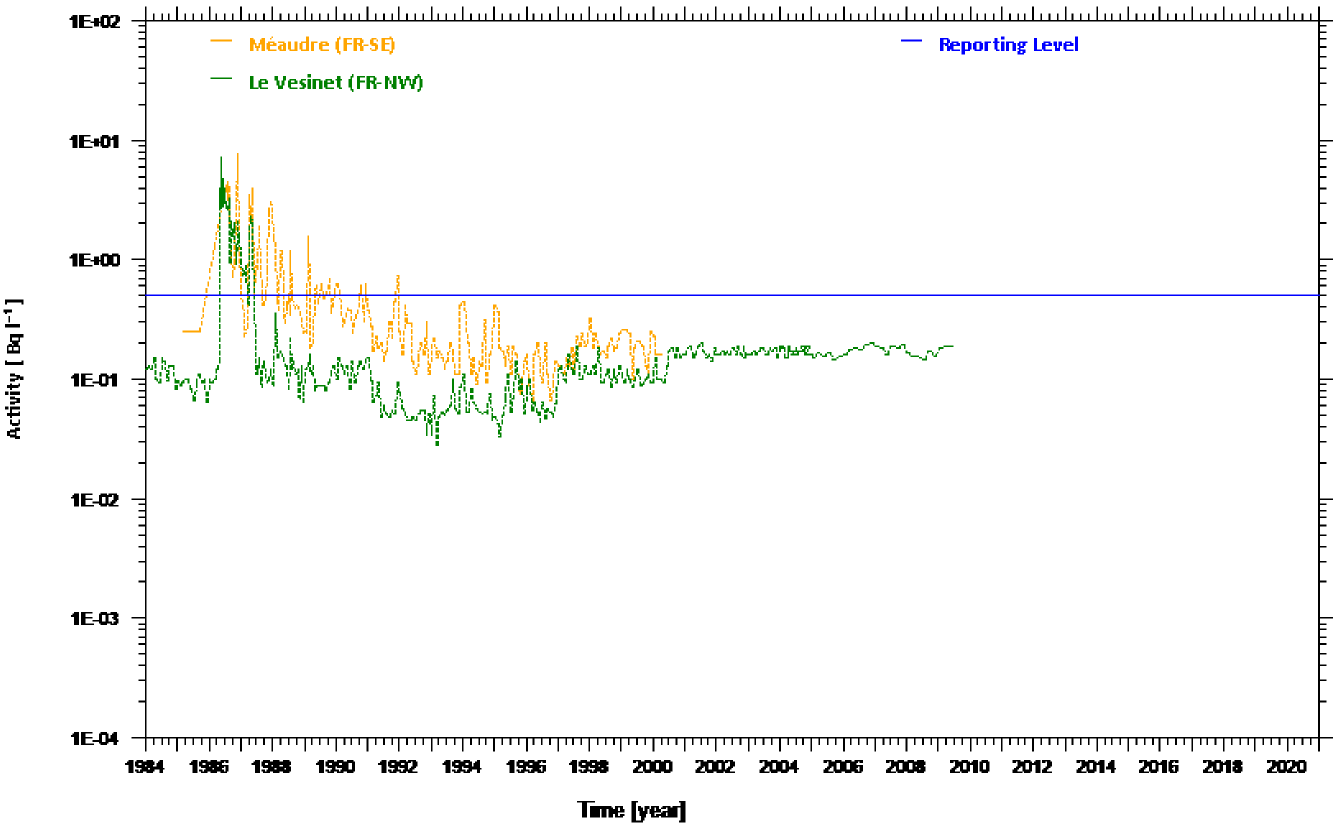


Fig. M33 Activity trends for ^{137}Cs in milk (Freiburg, Ljubljana and Budapest-Nrirr)

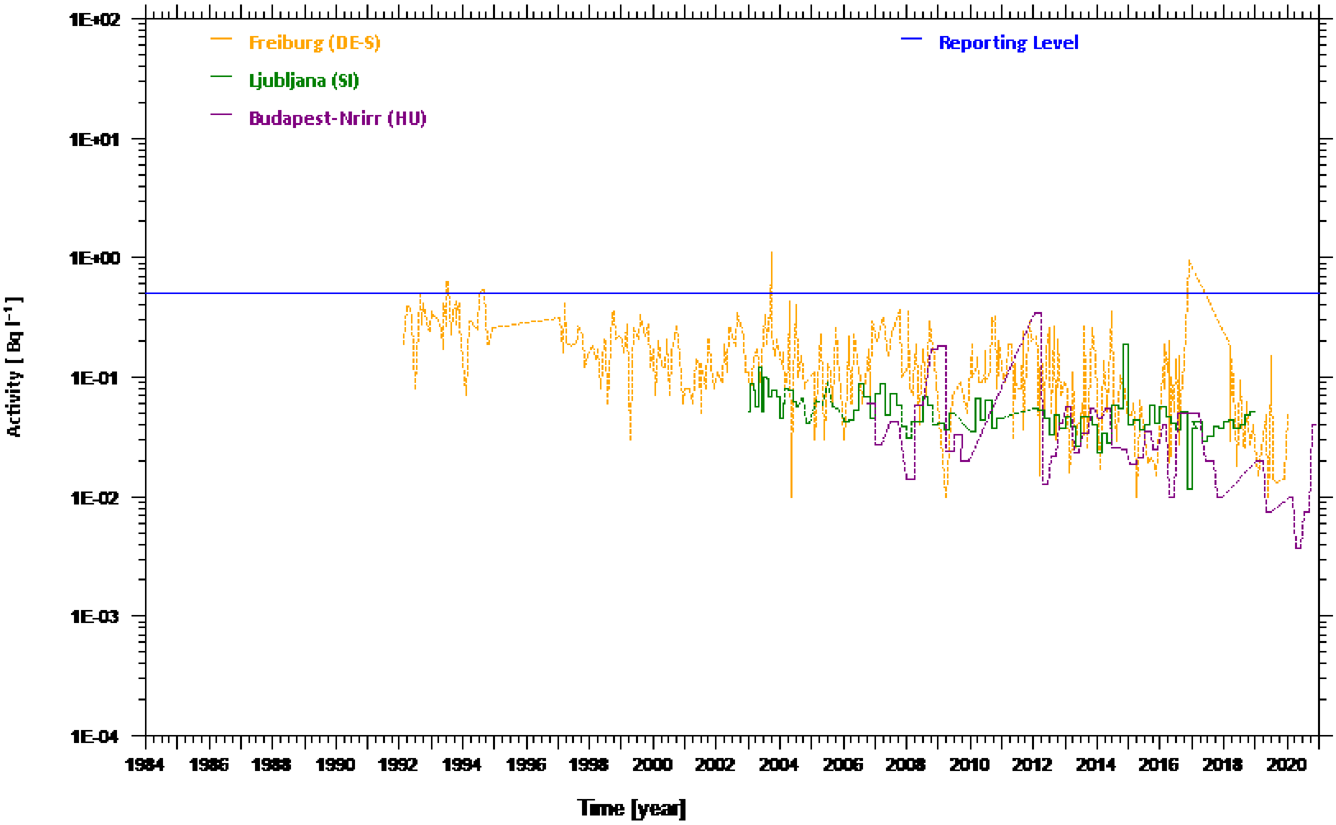
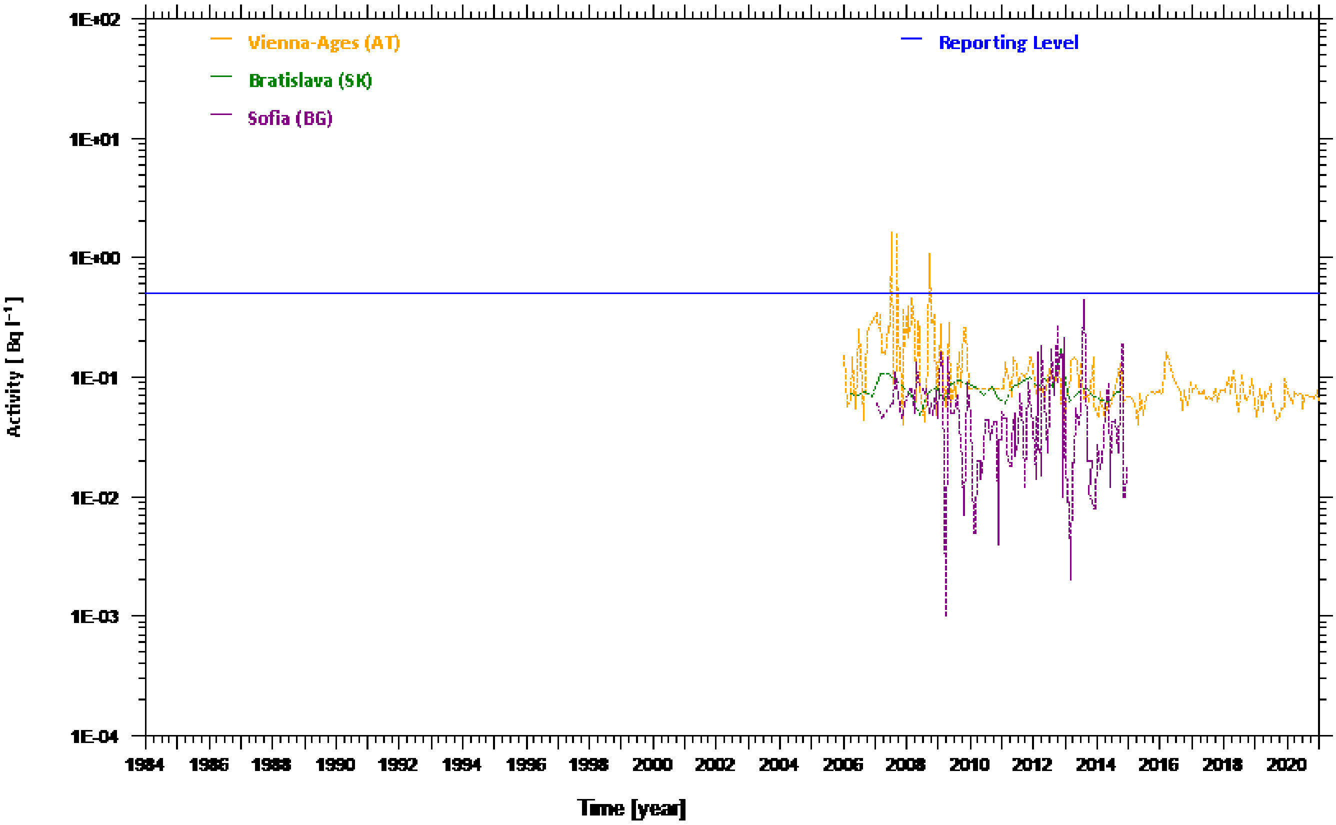


Fig. M34 Activity trends for ^{137}Cs in milk (Vienna-Ages, Bratislava and Sofia)



Activity trends

SAMPLE TYPE : milk (Bq l $^{-1}$)

NUCLIDE CATEGORY : caesium-137 (^{137}Cs)

SPARSE

Fig. M35 Activity trends for ^{137}Cs in milk (Cantabria, Leon and Barcelona)

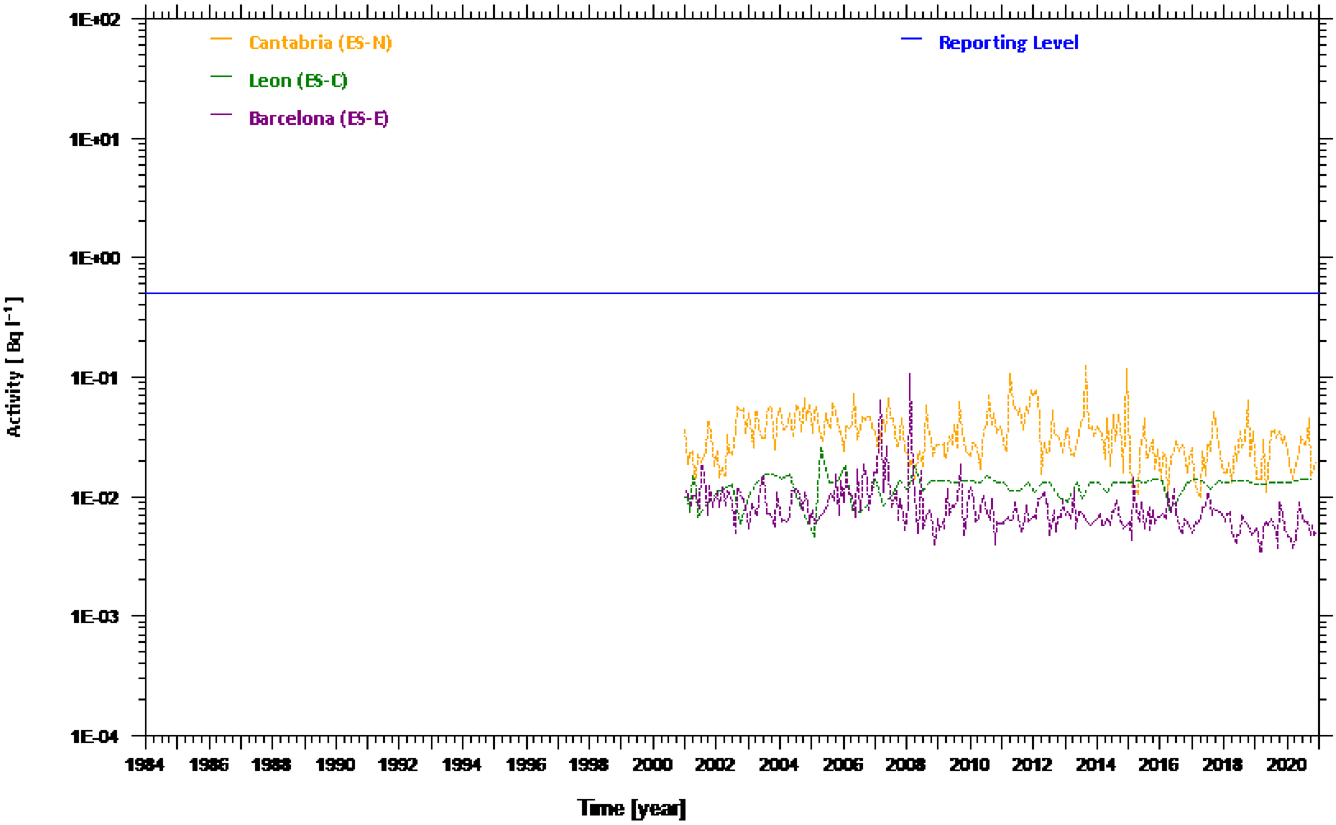
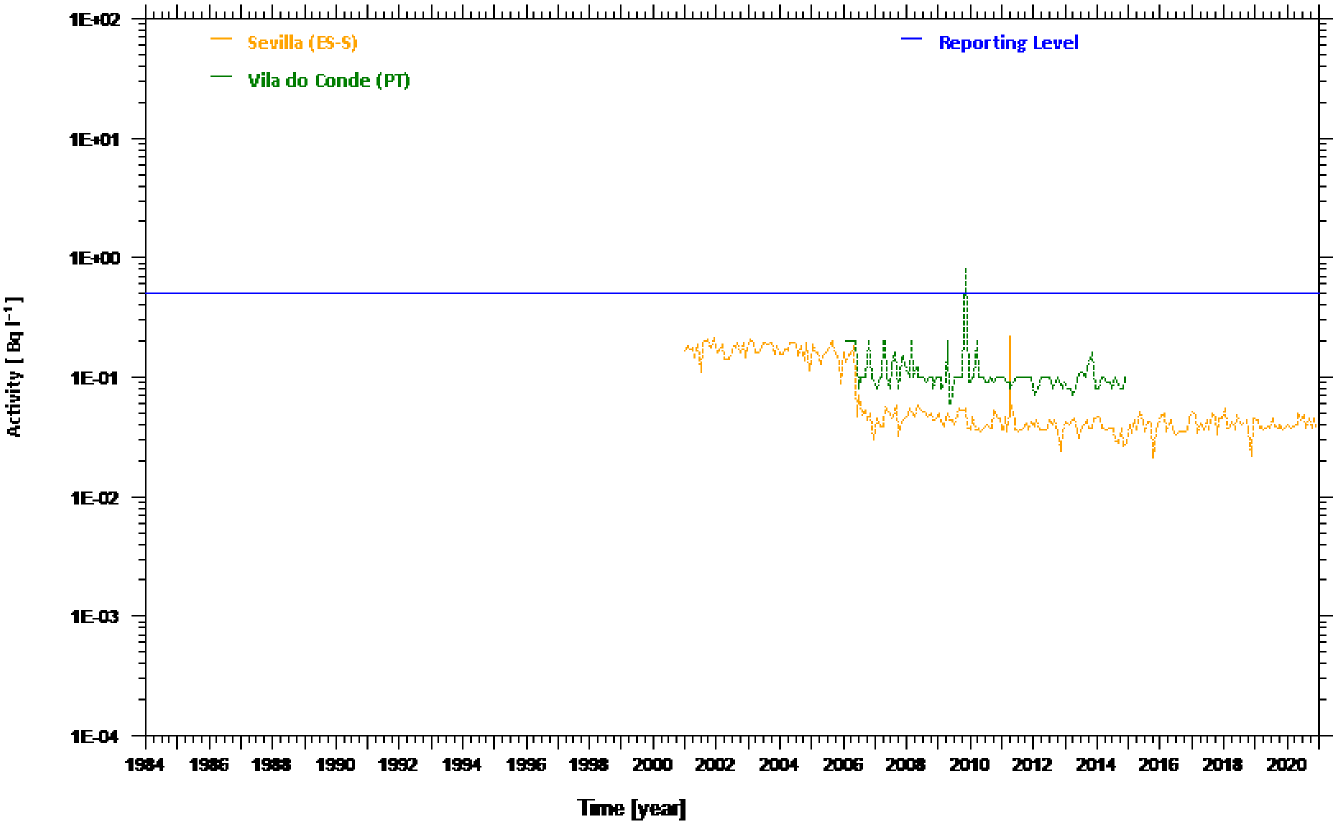


Fig. M36 Activity trends for ^{137}Cs in milk (Sevilla and Vila do Conde)



SPARSE

Activity trends

SAMPLE TYPE	:	milk (Bq l $^{-1}$)
NUCLIDE CATEGORY	:	caesium-137 (^{137}Cs)

Fig. M37 Activity trends for ^{137}Cs in milk (Hamrun, Nicosia and Drobeta-Turnu Severin)

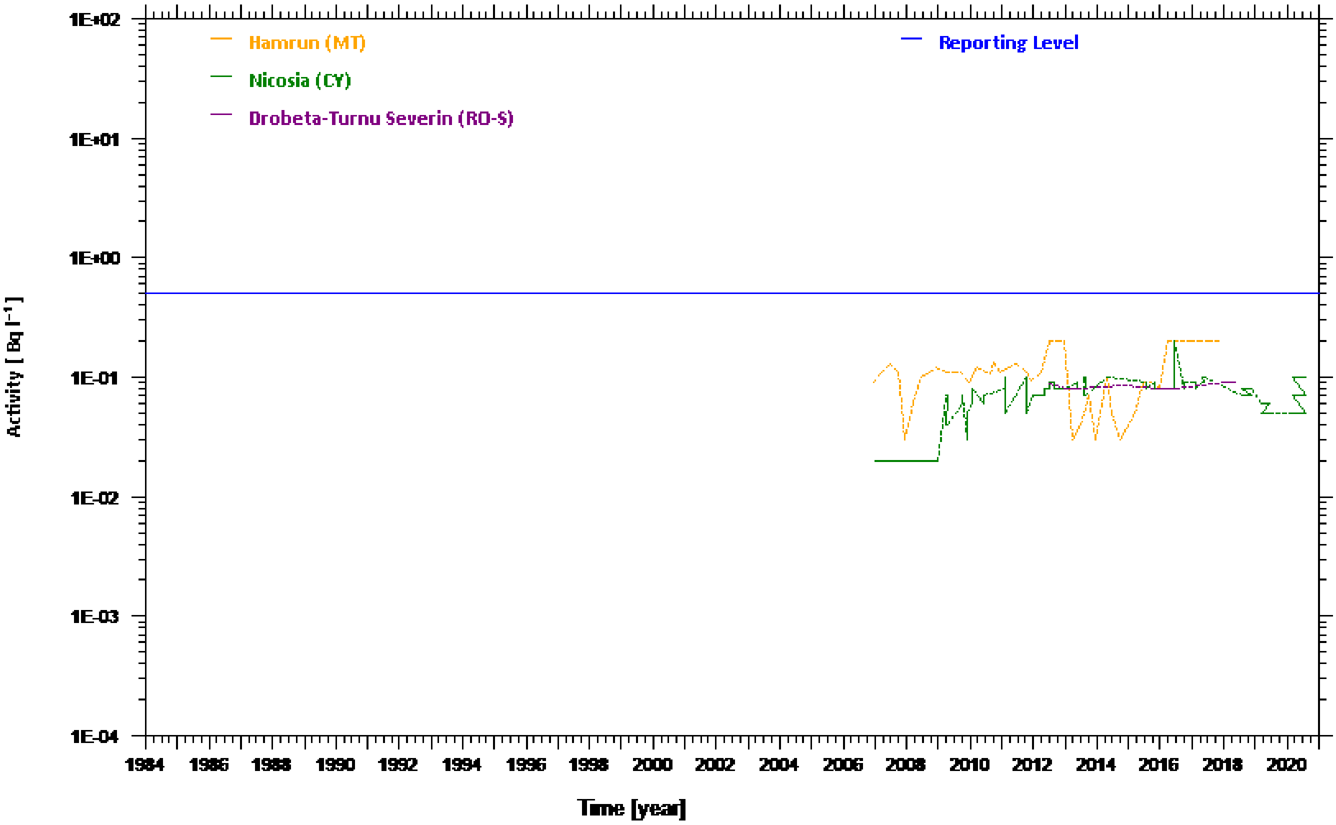
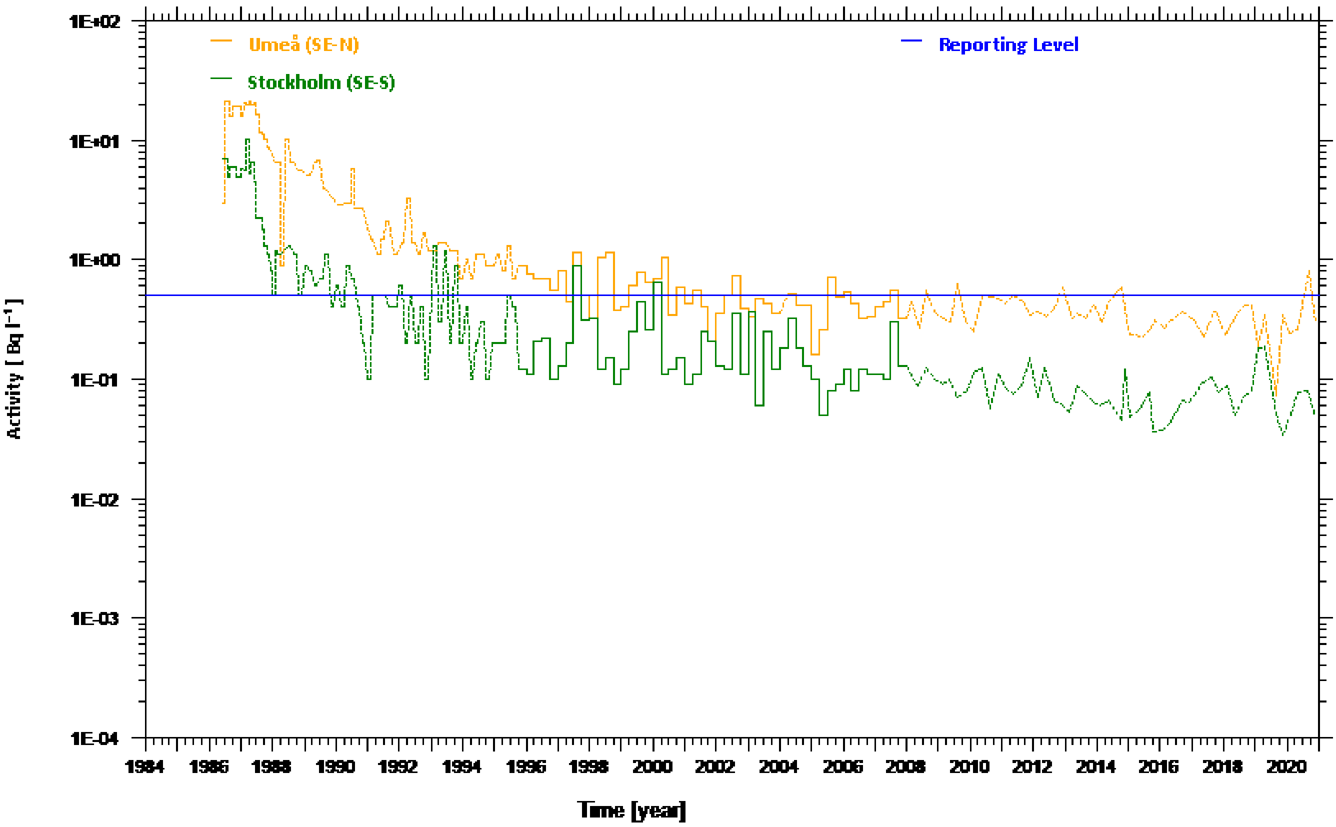


Fig. M38 Activity trends for ^{137}Cs in milk (Umeå and Stockholm)



Activity trends

SAMPLE TYPE	**:**	**milk (Bq l $^{-1}$)**
NUCLIDE CATEGORY	**:**	**caesium-137 (^{137}Cs)**

SPARSE

Fig. M39 Activity trends for ^{137}Cs in milk (Harjumaa, Riga and Vilnius)

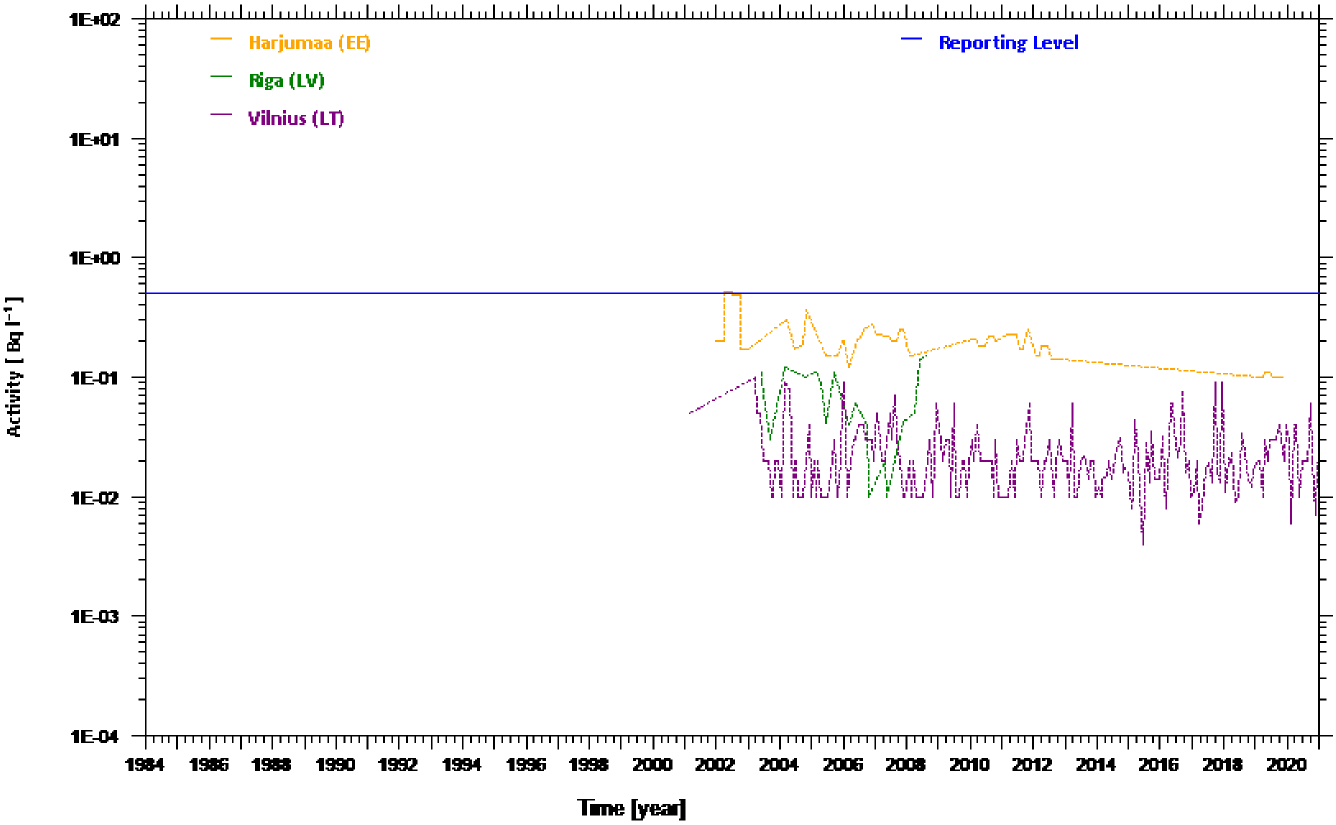
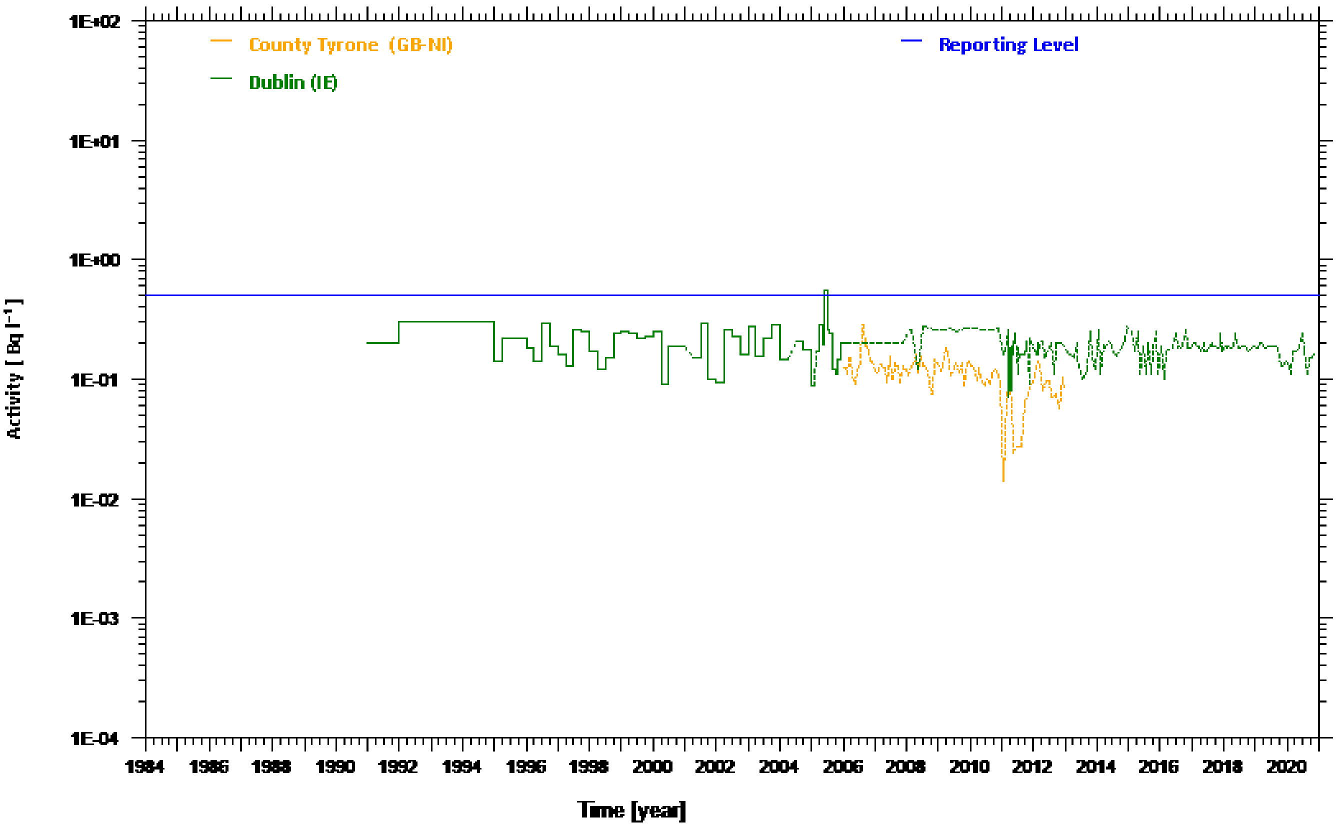


Fig. M40 Activity trends for ^{137}Cs in milk (County Tyrone and Dublin)



Activity trends

SAMPLE TYPE : milk (Bq l $^{-1}$)

NUCLIDE CATEGORY : caesium-137 (^{137}Cs)

Fig. M41 Activity trends for ^{137}Cs in milk (Edinburgh and Gwent)

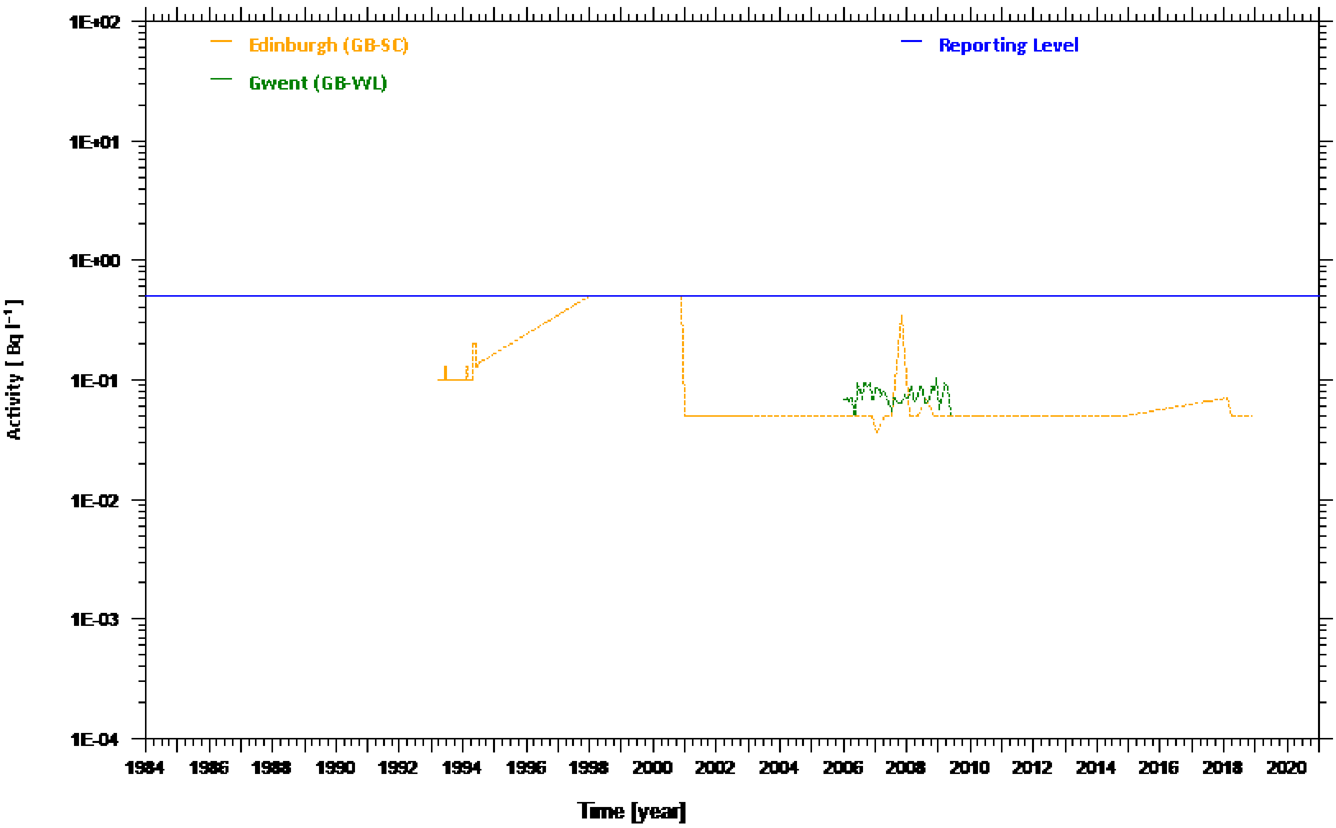
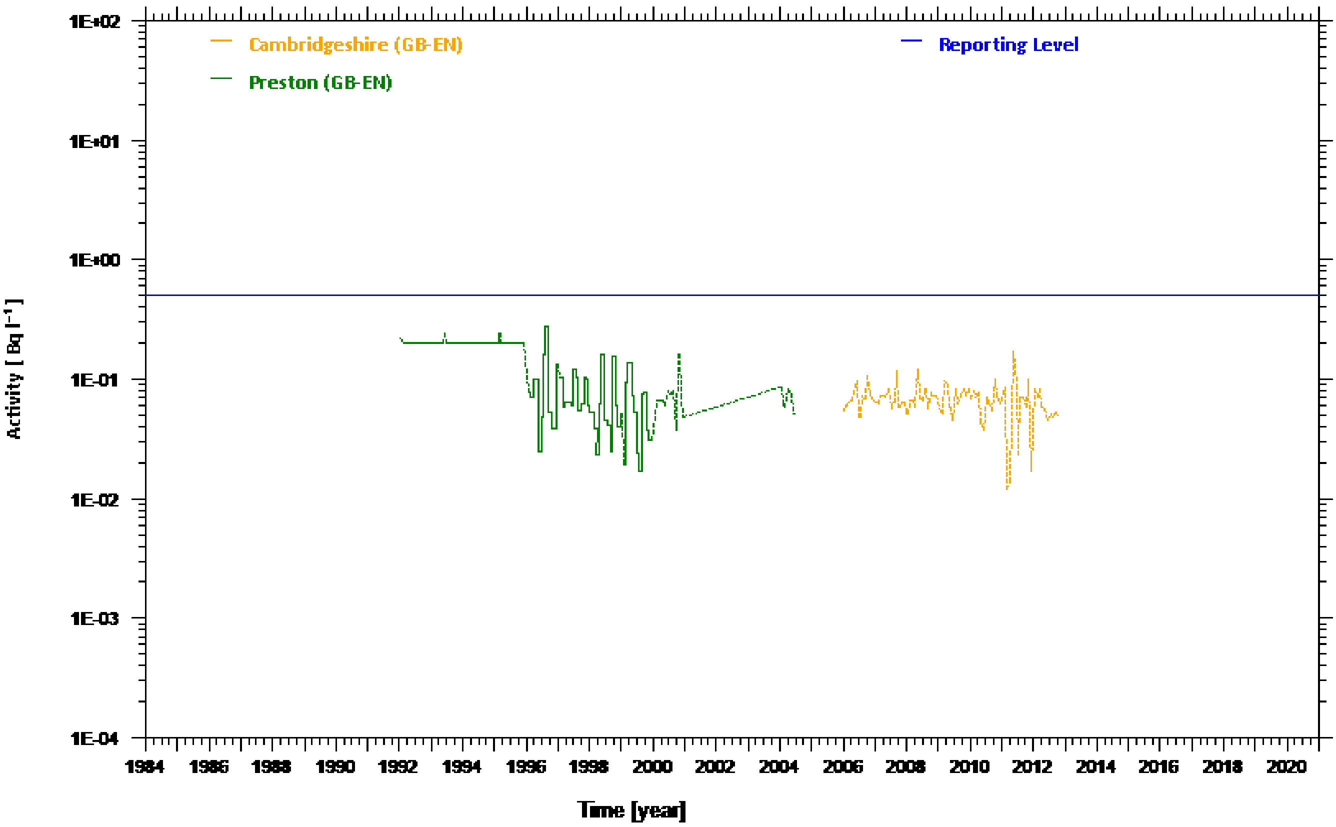


Fig. M42 Activity trends for ^{137}Cs in milk (Cambridgeshire and Preston)



Activity trends

SAMPLE TYPE : milk (Bq l $^{-1}$)

NUCLIDE CATEGORY : caesium-137 (^{137}Cs)

SPARSE

Fig. M43 Activity trends for ^{137}Cs in milk (Oldenburg and Hungen)

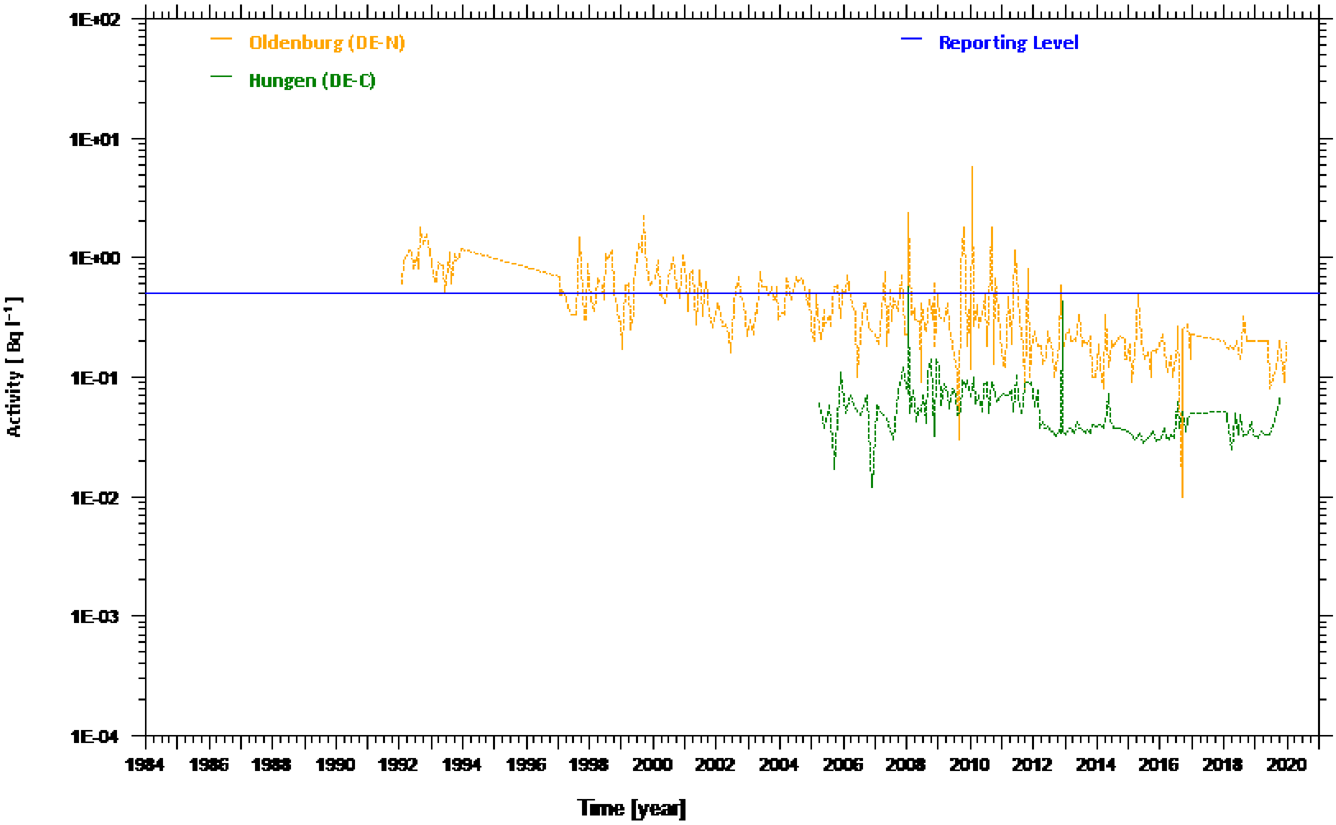
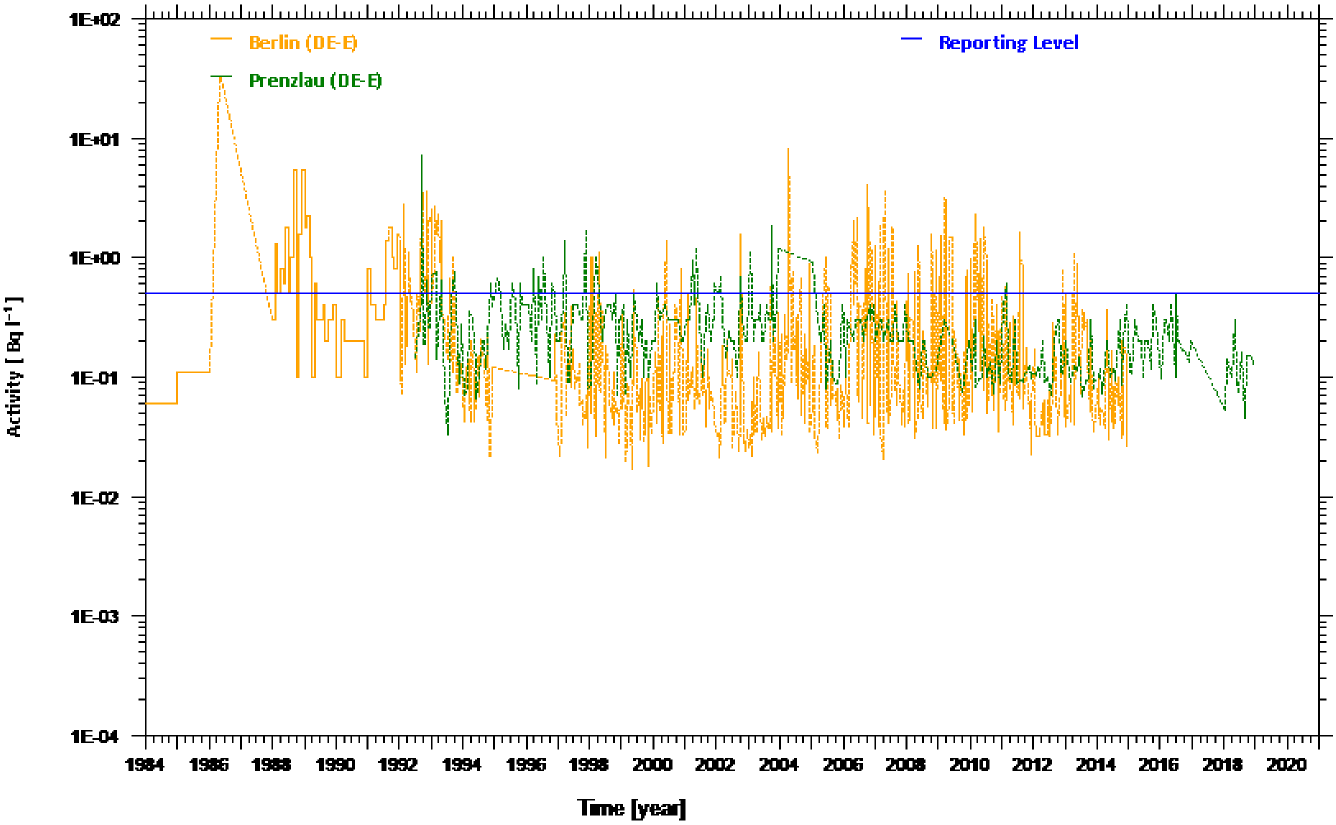


Fig. M44 Activity trends for ^{137}Cs in milk (Berlin and Prenzlau)



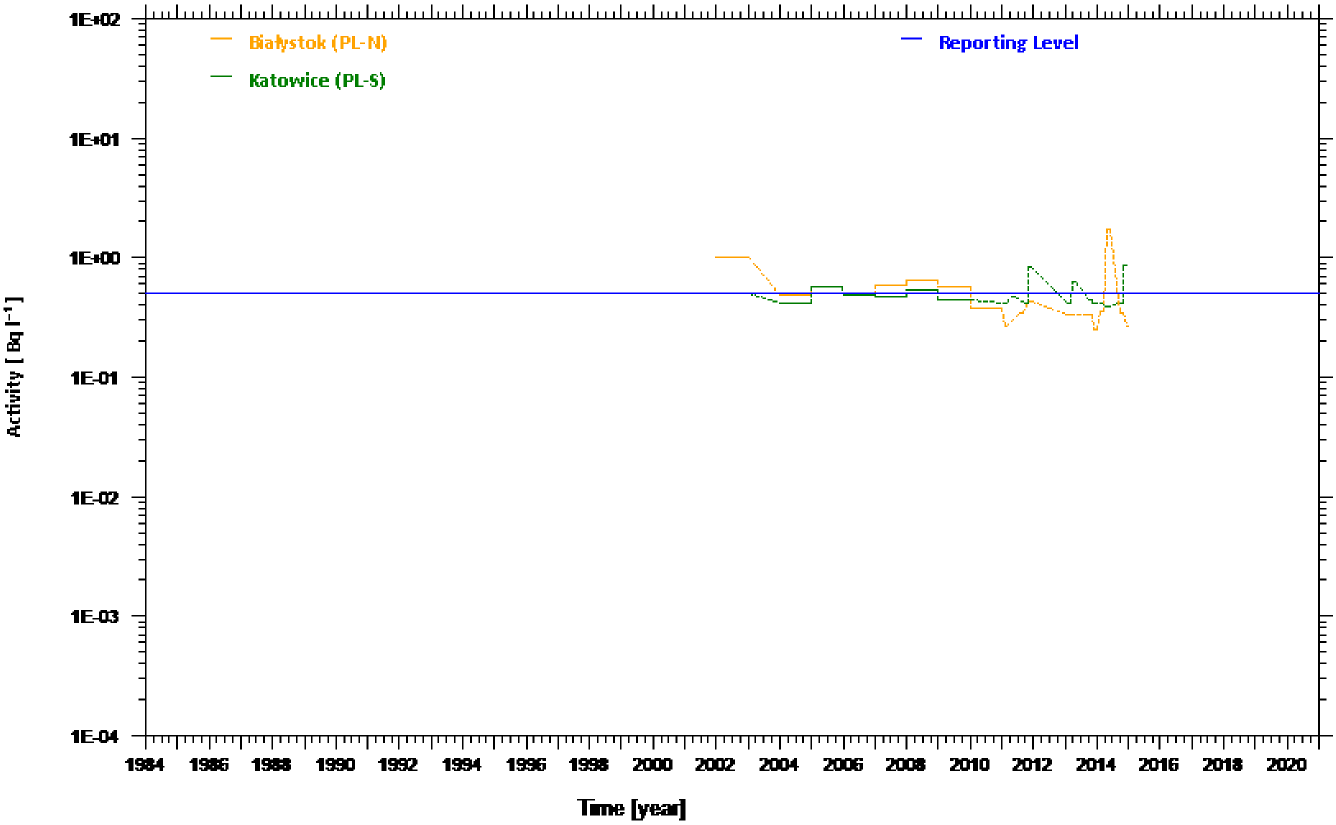
SPARSE

Activity trends

SAMPLE TYPE : milk (Bq l $^{-1}$)

NUCLIDE CATEGORY : caesium-137 (^{137}Cs)

Fig. M45 Activity trends for ^{137}Cs in milk (Białystok and Katowice)



SPARSE

Fig. D13

Sampling locations for ^{90}Sr and ^{137}Cs in mixed diet considered in Figures D14 – D37

Activity trends

SAMPLE TYPE	:	mixed diet (Bq d⁻¹ p⁻¹)
NUCLIDE CATEGORY	:	strontium-90 (^{90}Sr)

Fig. D14 Activity trends for ^{90}Sr in mixed diet (Helsinki and Rovaniemi)

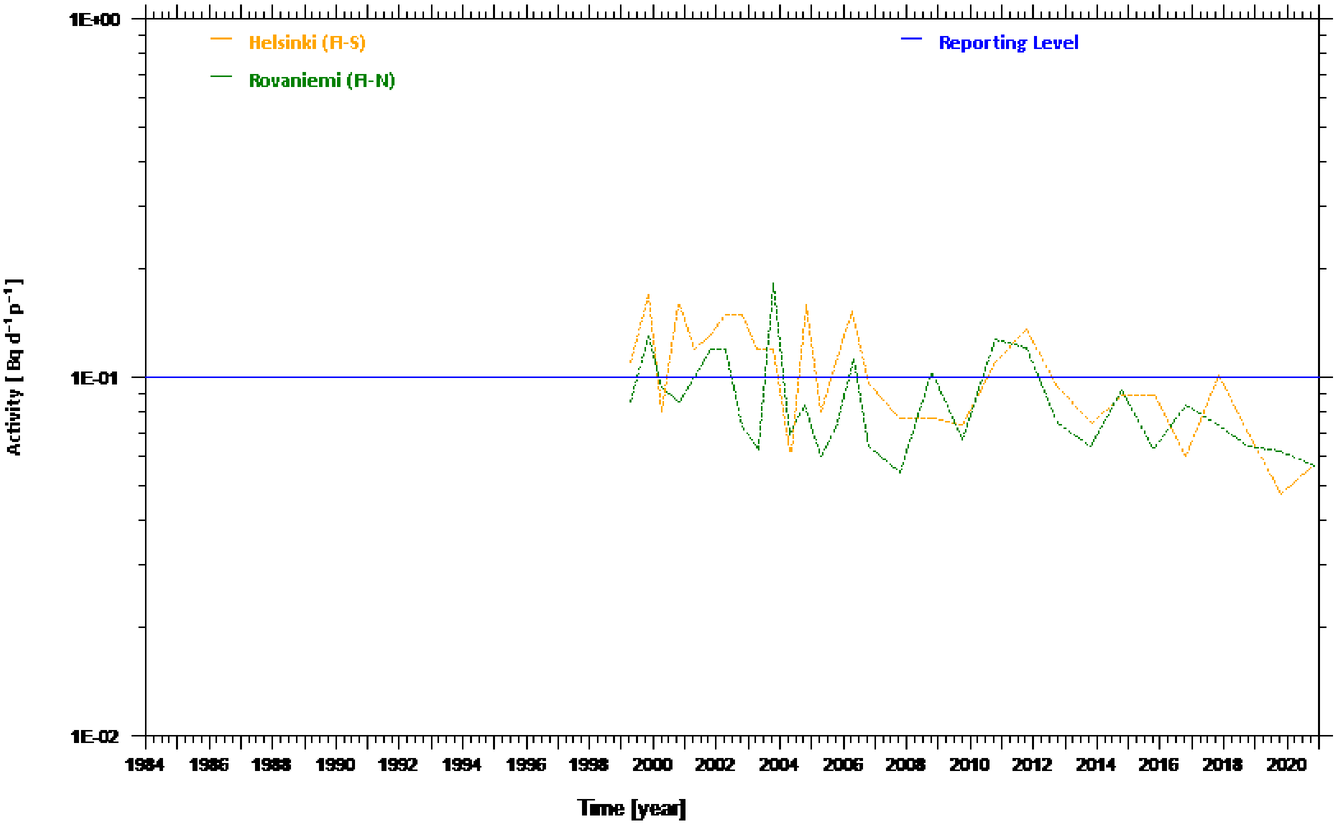
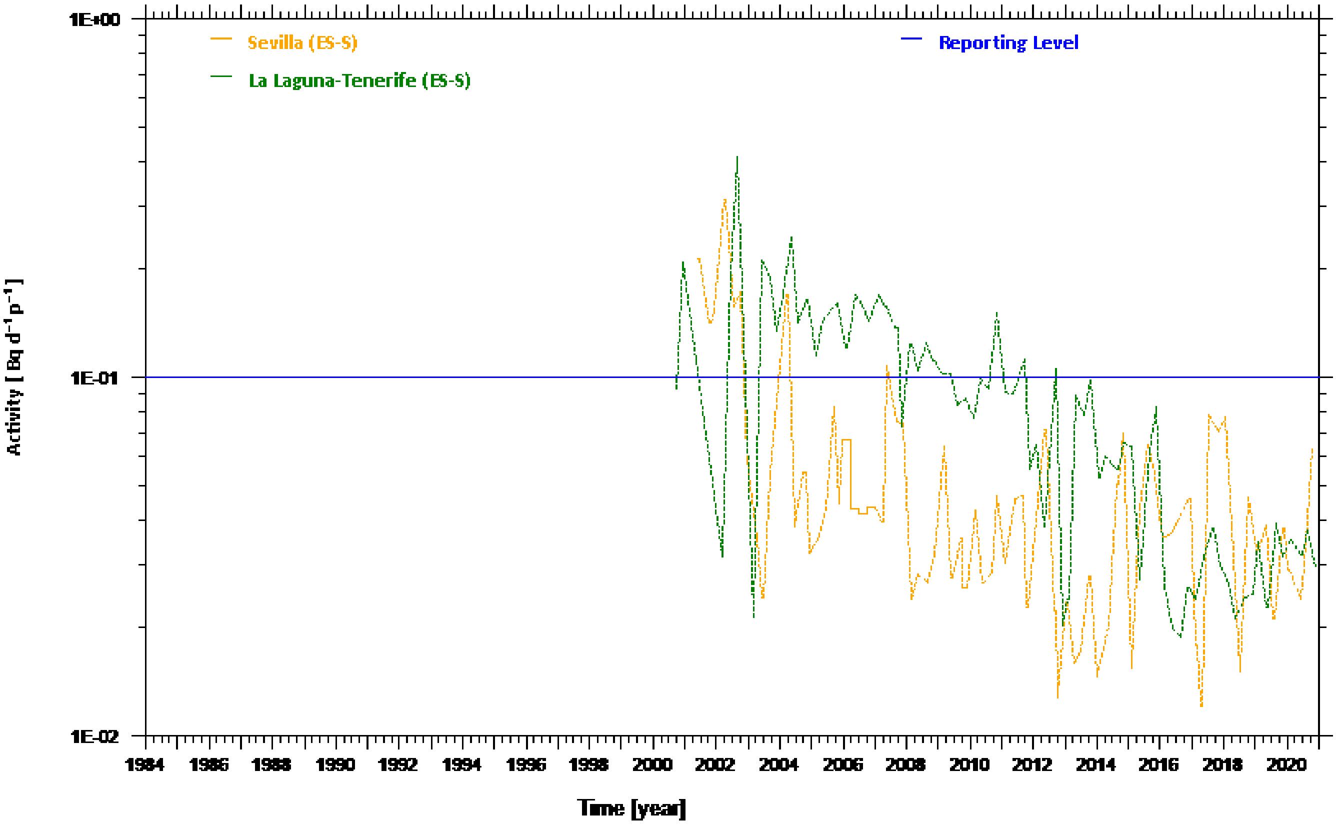


Fig. D15 Activity trends for ^{90}Sr in mixed diet (Sevilla and La Laguna-Tenerife)



Activity trends
SAMPLE TYPE : mixed diet (Bq d⁻¹ p⁻¹)
NUCLIDE CATEGORY : strontium-90 (^{90}Sr)

SPARSE

Fig. D16 Activity trends for ^{90}Sr in mixed diet (Lisbon, Tal Qroqq and Craiova)

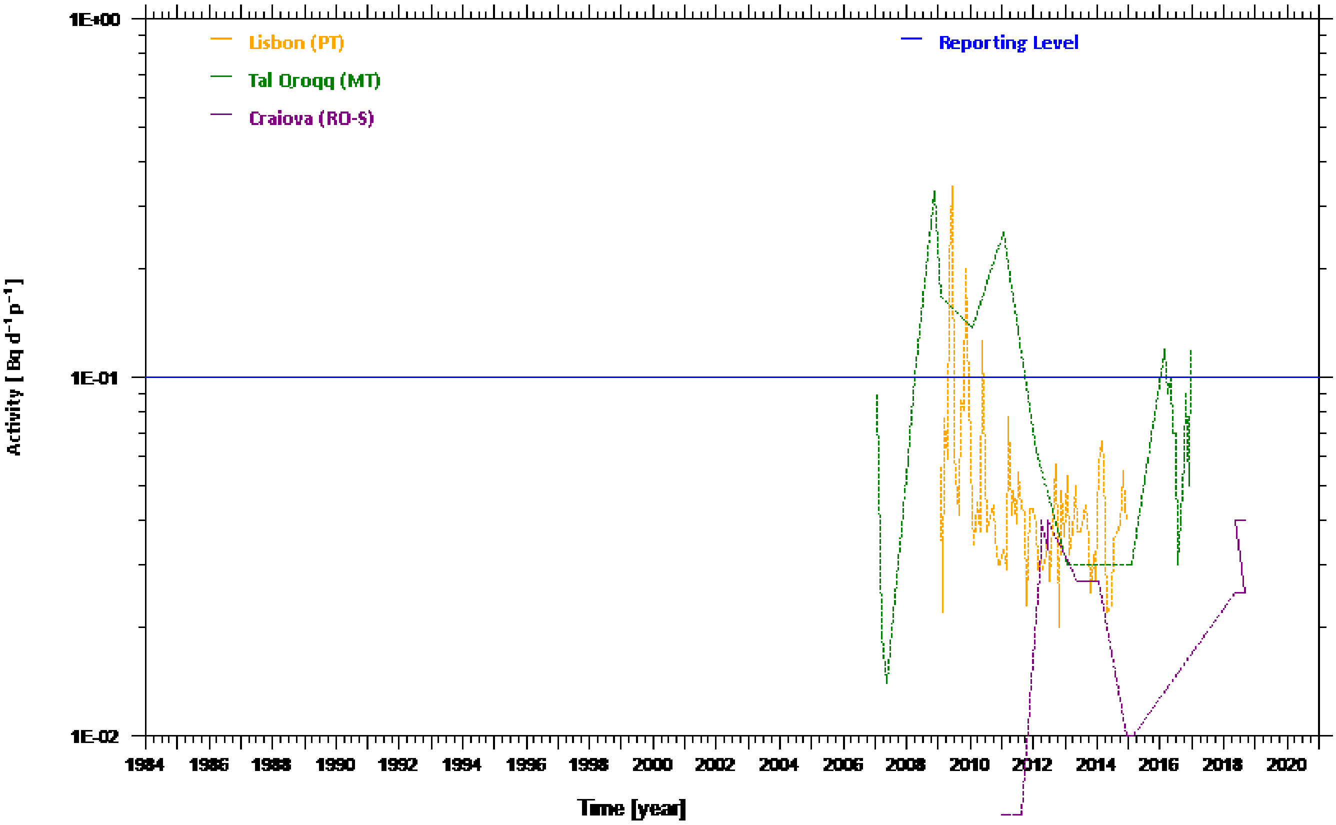
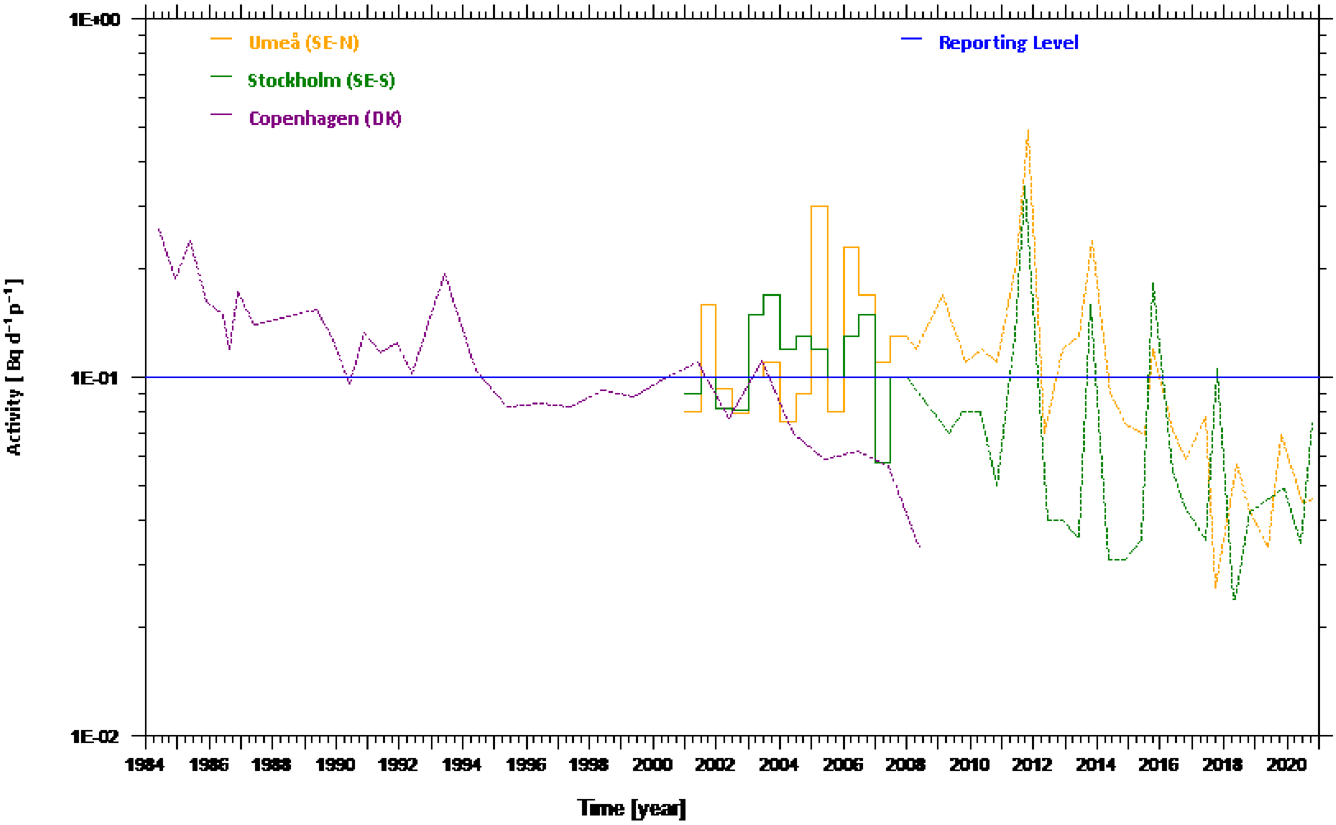


Fig. D17 Activity trends for ^{90}Sr in mixed diet (Umeå, Stockholm and Copenhagen)



Activity trends

SAMPLE TYPE : mixed diet (Bq d⁻¹ p⁻¹)

NUCLIDE CATEGORY : strontium-90 (^{90}Sr)

Fig. D18 Activity trends for ^{90}Sr in mixed diet (Tallinn, Riga and Vilnius)

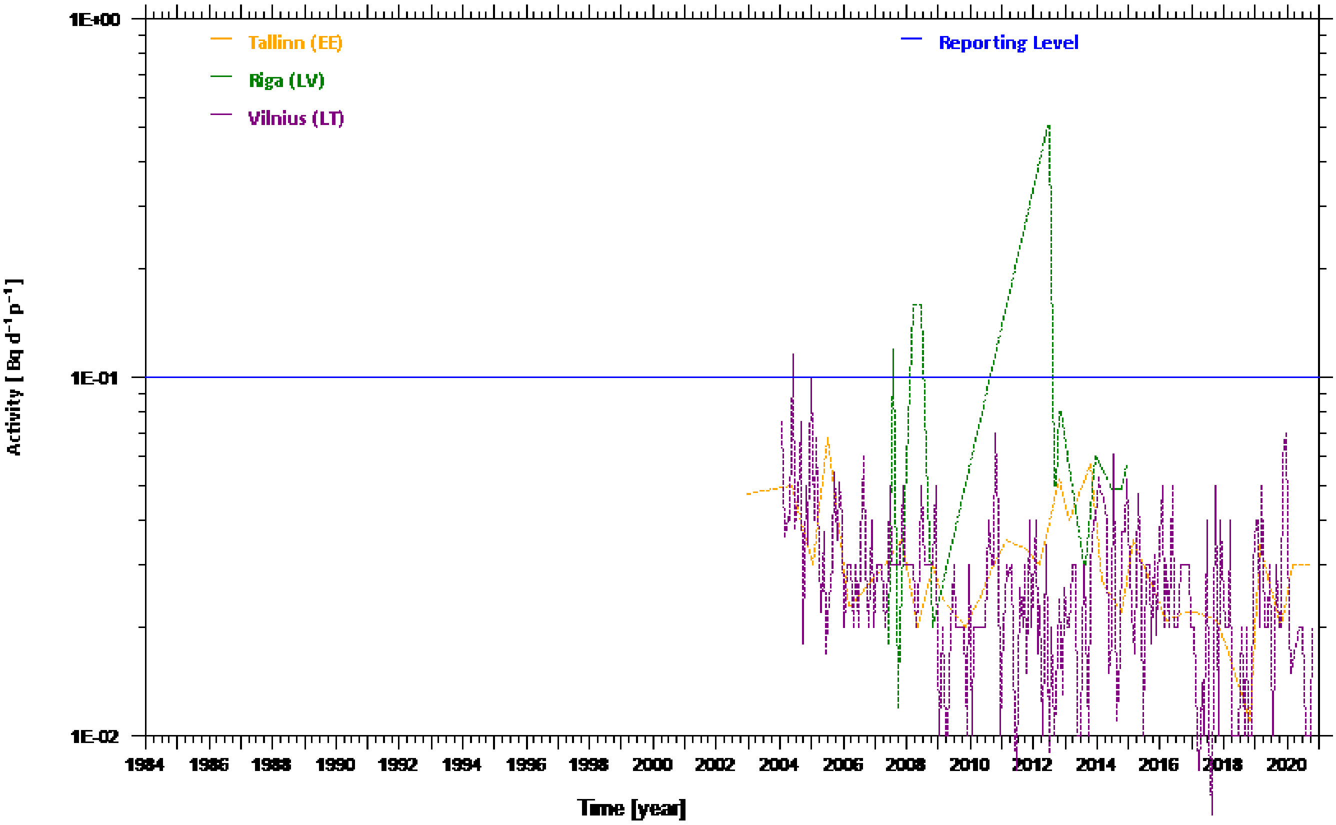
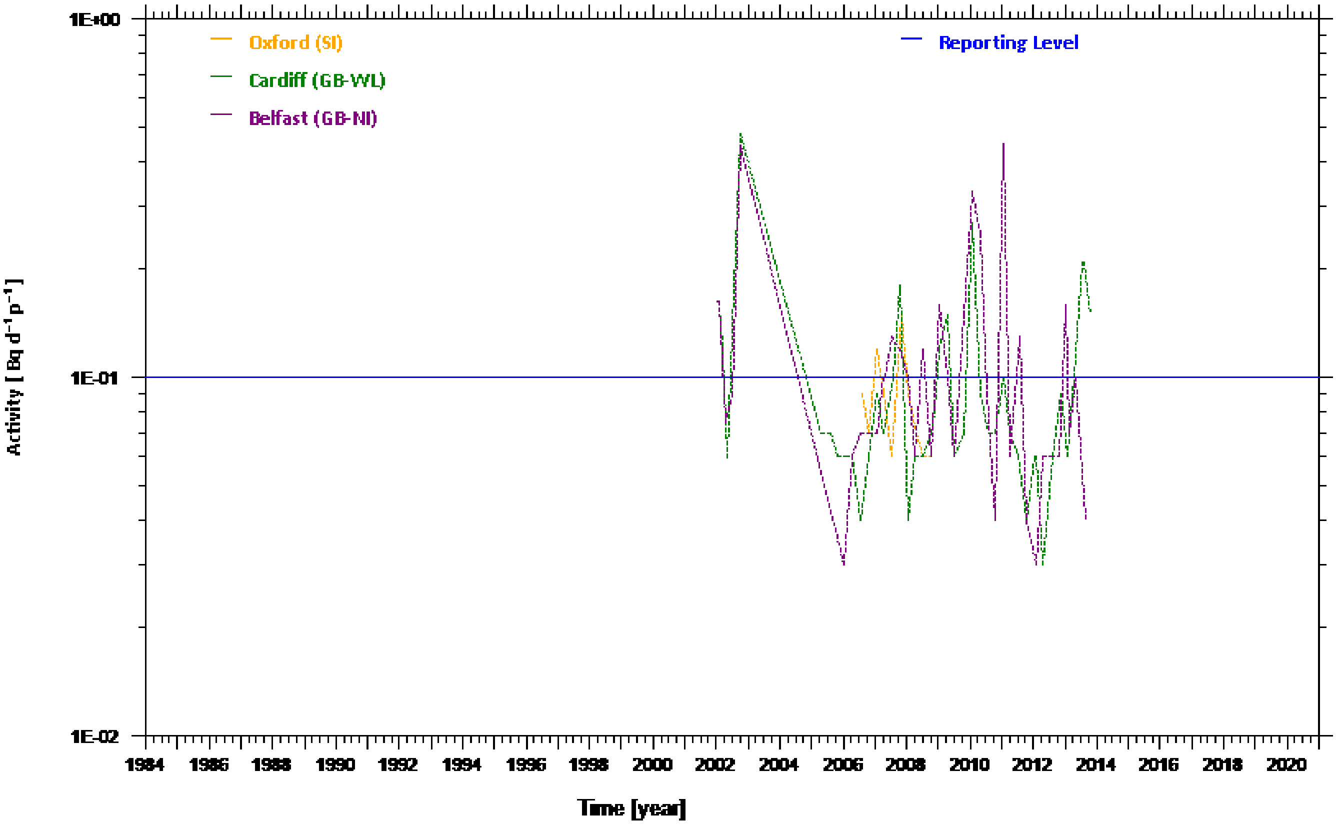


Fig. D19 Activity trends for ^{90}Sr in mixed diet (Oxford, Cardiff and Belfast)



Activity trends

SAMPLE TYPE : **mixed diet (Bq d⁻¹ p⁻¹)**

NUCLIDE CATEGORY : **strontium-90 (^{90}Sr)**

SPARSE

Fig. D20 Activity trends for ^{90}Sr in mixed diet (Brussels, Le Vesinet and Avignon)

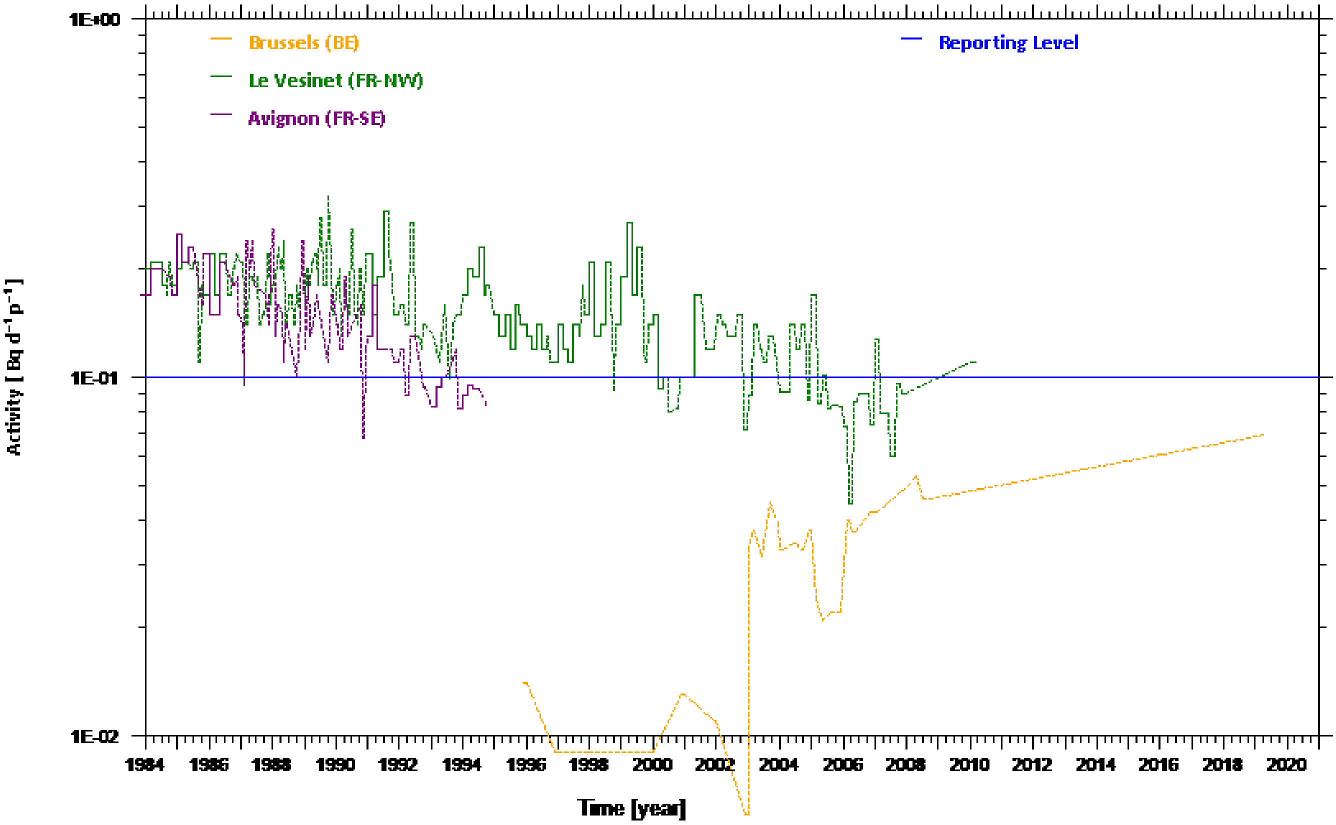
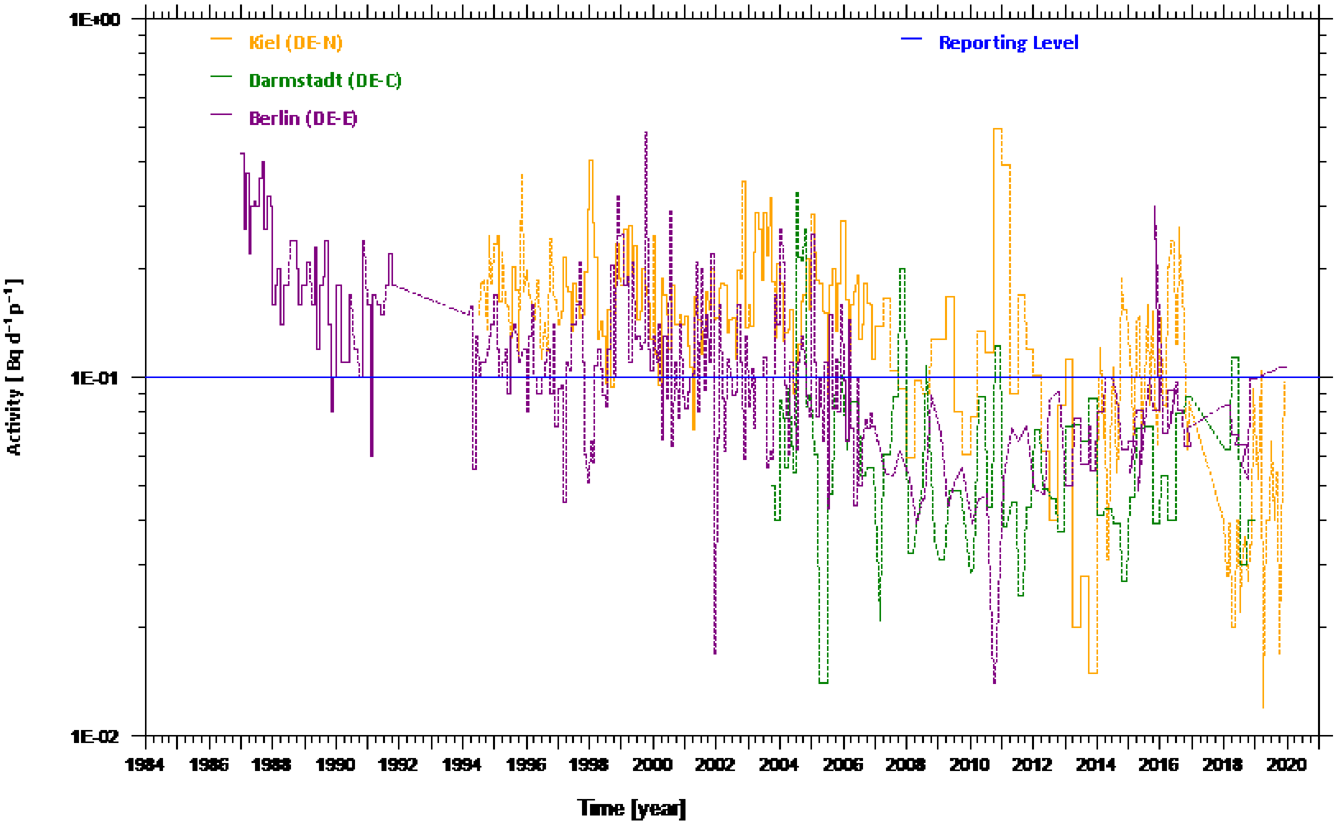


Fig. D21 Activity trends for ^{90}Sr in mixed diet (Kiel, Darmstadt and Berlin)



Activity trends

SAMPLE TYPE : mixed diet (Bq d^{-1} p^{-1})

NUCLIDE CATEGORY : strontium-90 (^{90}Sr)

Fig. D22 Activity trends for ^{90}Sr in mixed diet (Oberschleissheim, Prague and Vienna-Ages)

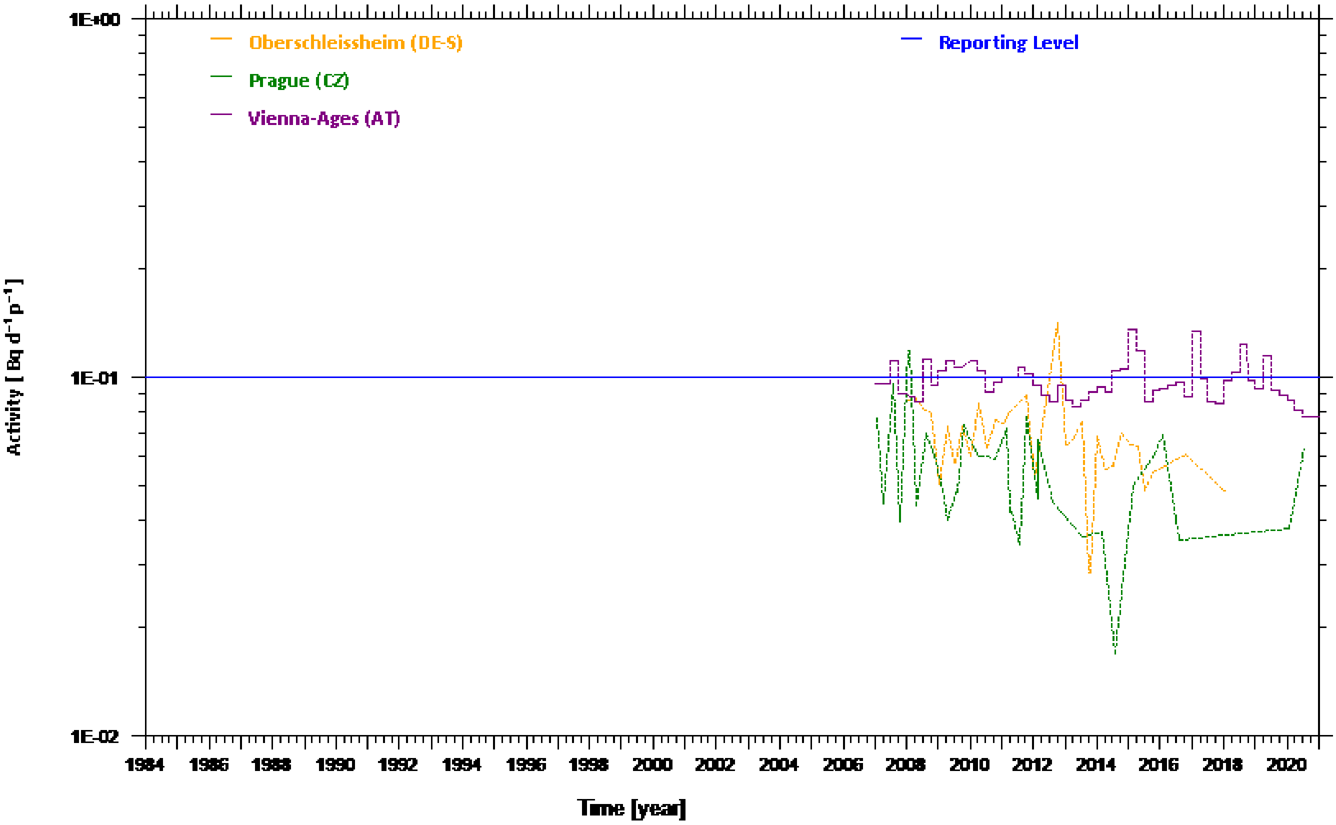
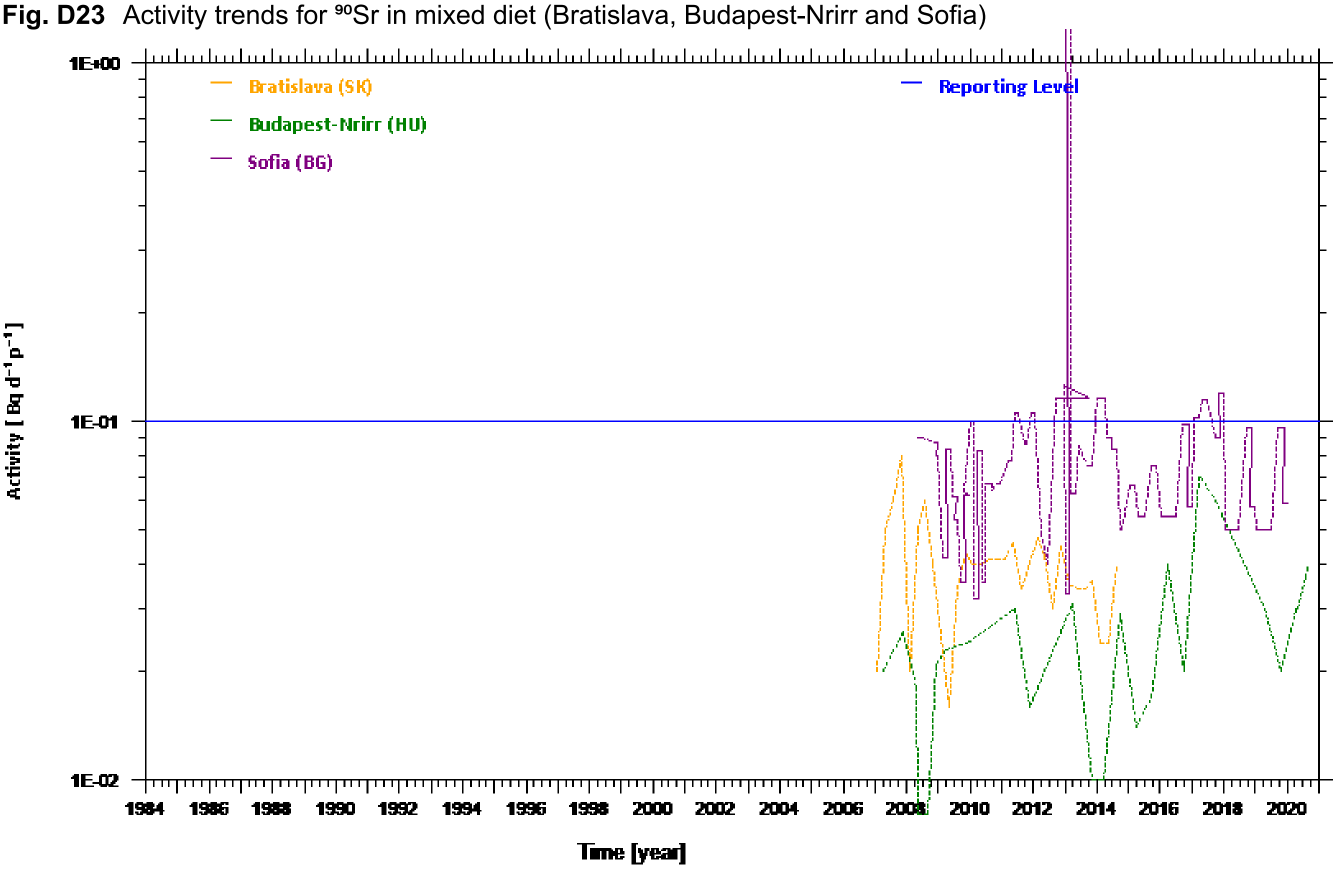


Fig. D23 Activity trends for ^{90}Sr in mixed diet (Bratislava, Budapest-Nrirr and Sofia)



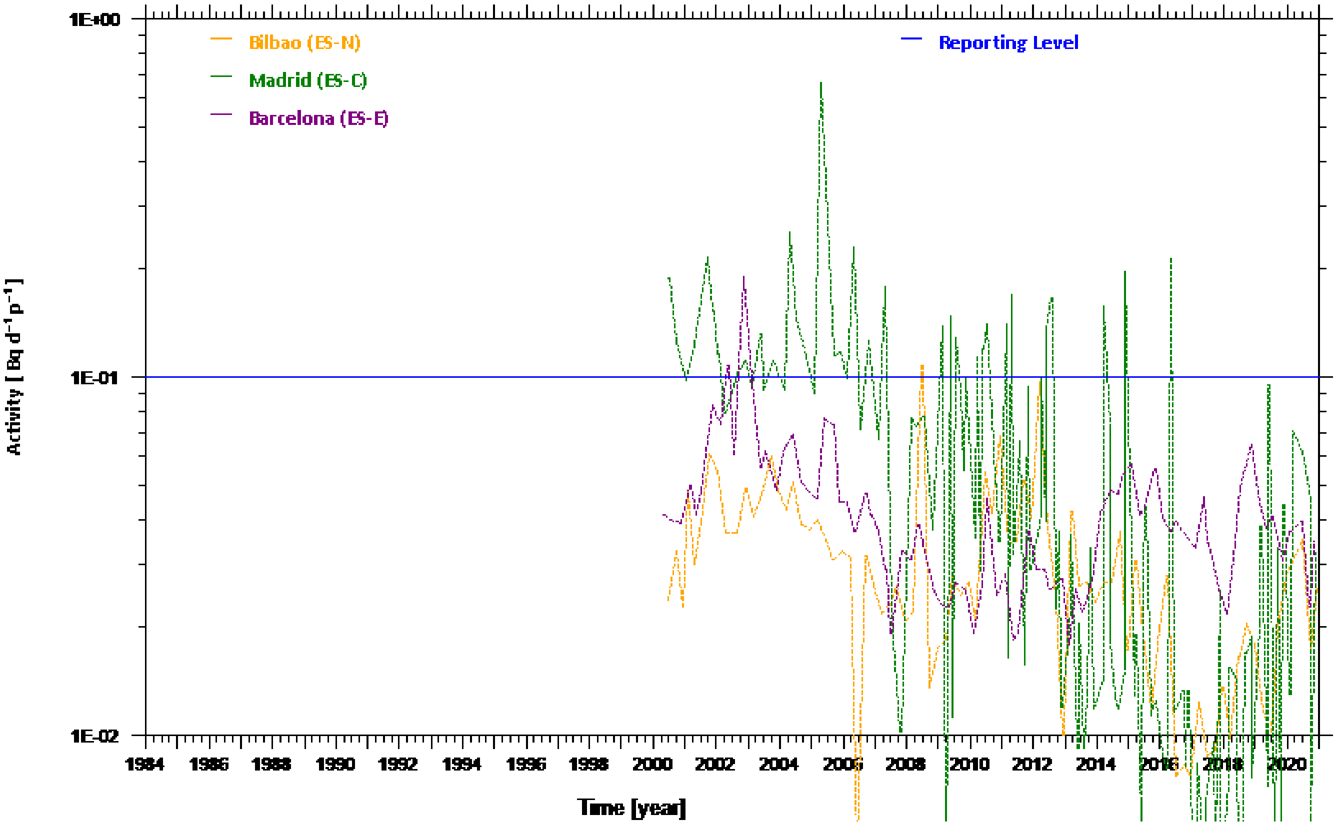
Activity trends

SAMPLE TYPE : **mixed diet (Bq d^{-1} p^{-1})**

NUCLIDE CATEGORY : **strontium-90 (^{90}Sr)**

SPARSE

Fig. D24 Activity trends for ^{90}Sr in mixed diet (Bilbao, Madrid and Barcelona)



Activity trends
SAMPLE TYPE : mixed diet (Bq d⁻¹ p⁻¹)
NUCLIDE CATEGORY : caesium-137 (¹³⁷Cs)

Fig. D25 Activity trends for ¹³⁷Cs in mixed diet (Helsinki, Rovaniemi and Umeå)

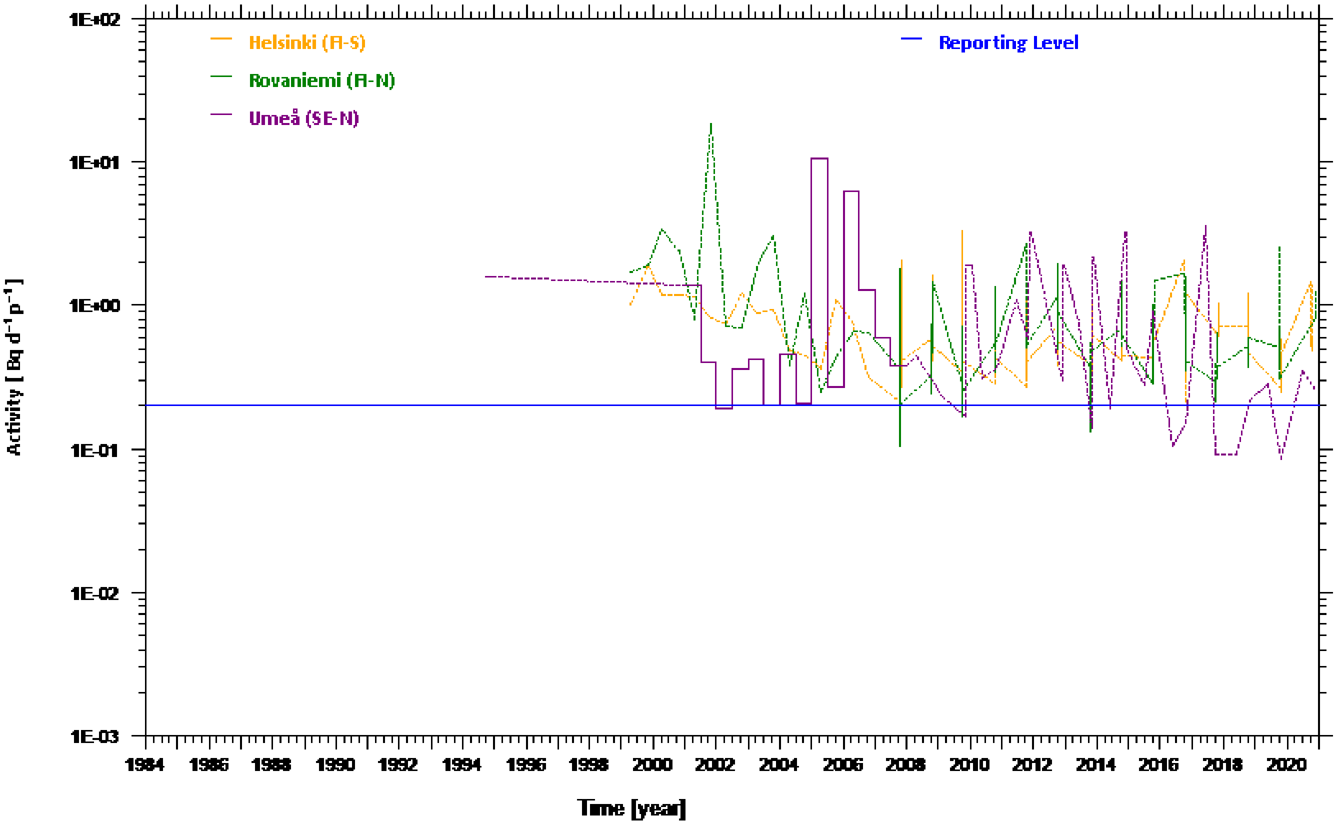
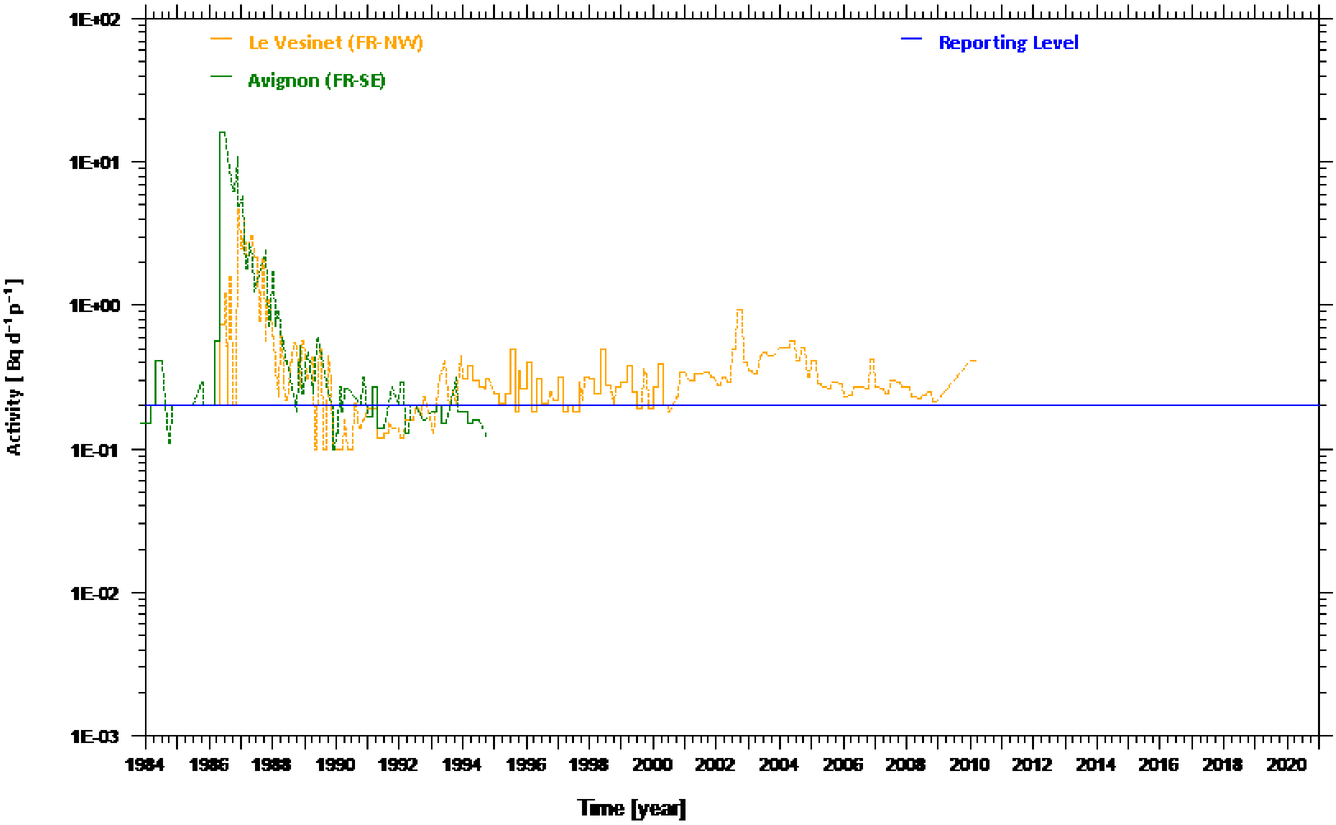


Fig. D26 Activity trends for ¹³⁷Cs in mixed diet (Le Vesinet and Avignon)



Activity trends

SAMPLE TYPE	:	**mixed diet (Bq d^{-1} p^{-1})**
NUCLIDE CATEGORY	:	**caesium-137 (^{137}Cs)**

SPARSE

Fig. D27 Activity trends for ^{137}Cs in mixed diet (Bilbao, Madrid and Barcelona)

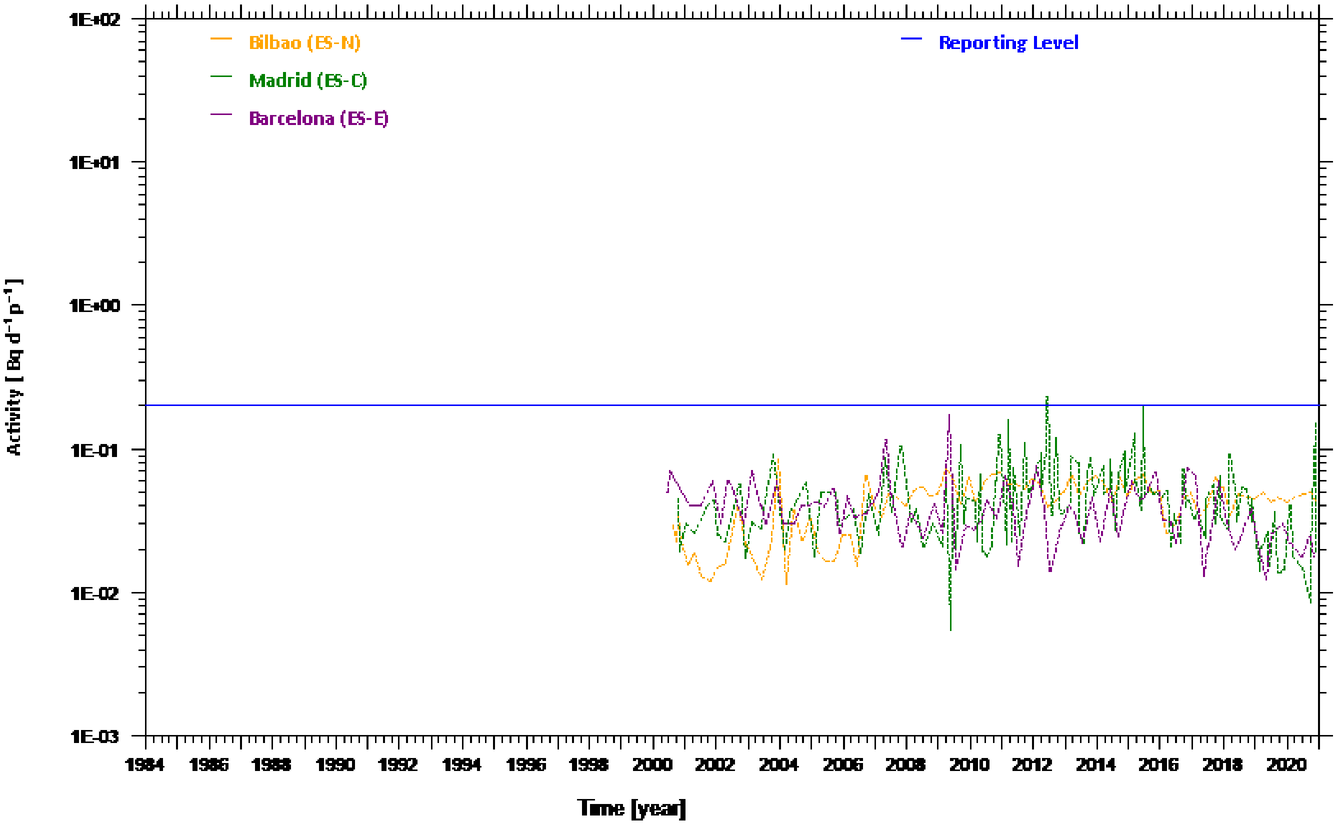
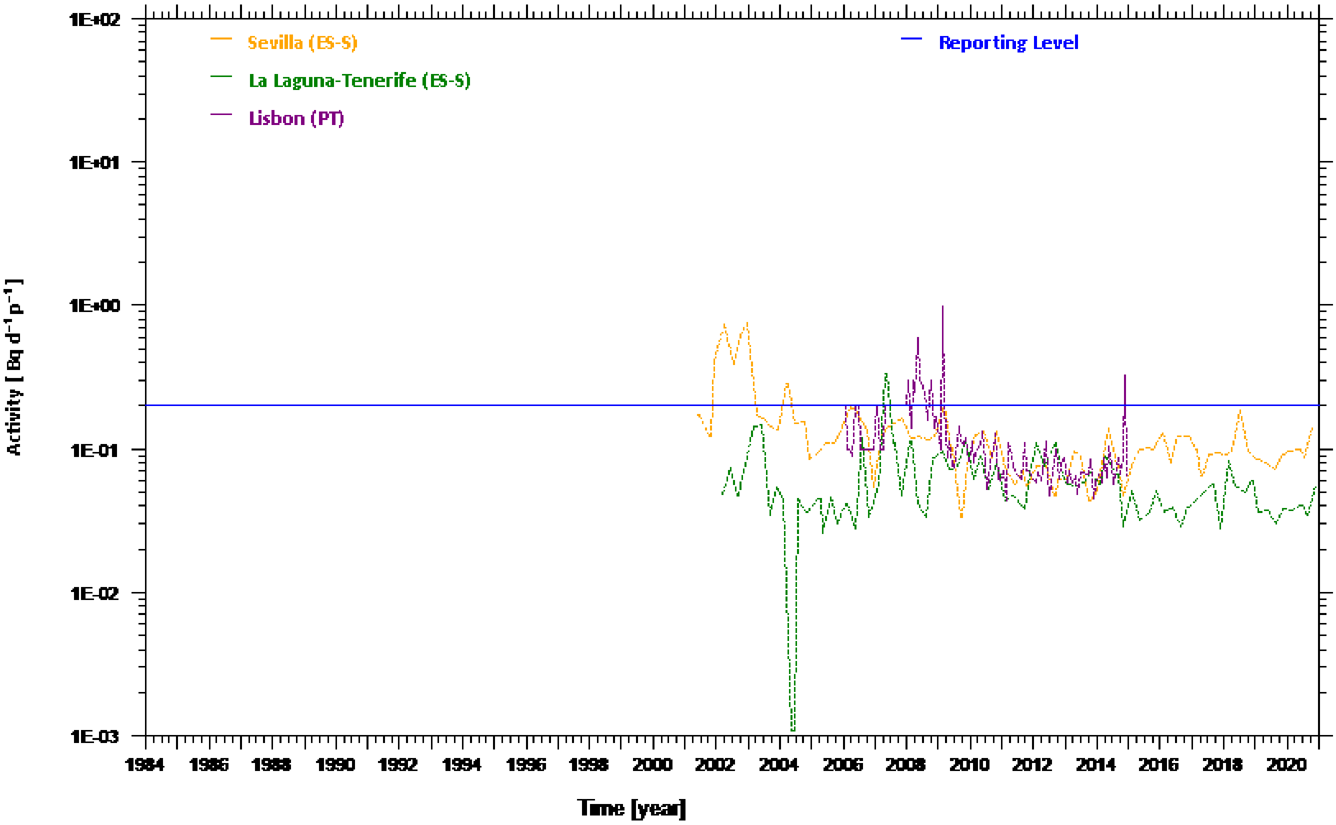


Fig. D28 Activity trends for ^{137}Cs in mixed diet (Sevilla, La Laguna-Tenerife and Lisbon)



Activity trends

SAMPLE TYPE : mixed diet (Bq d⁻¹ p⁻¹)

NUCLIDE CATEGORY : caesium-137 (^{137}Cs)

SPARSE

Fig. D29 Activity trends for ^{137}Cs in mixed diet (Tal Qroqq and Craiova)

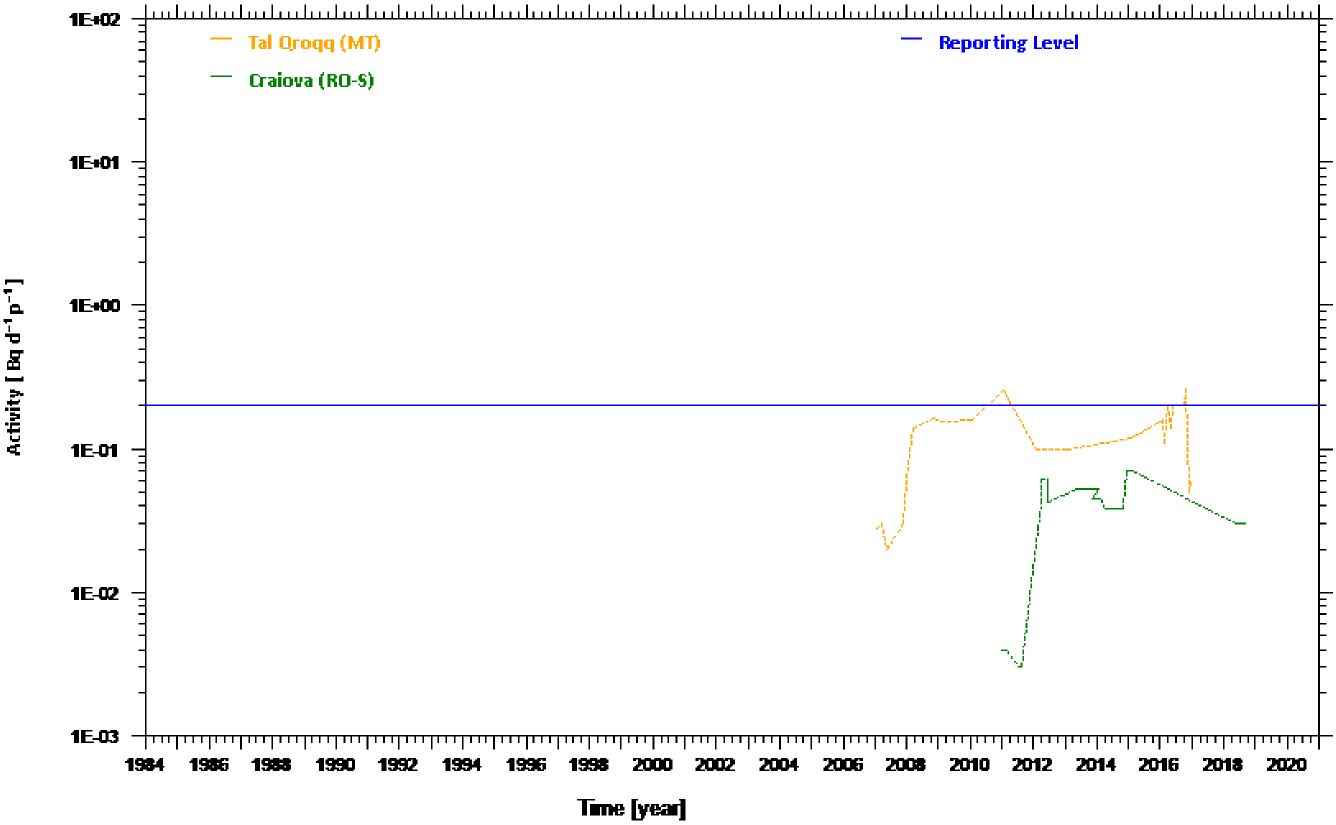
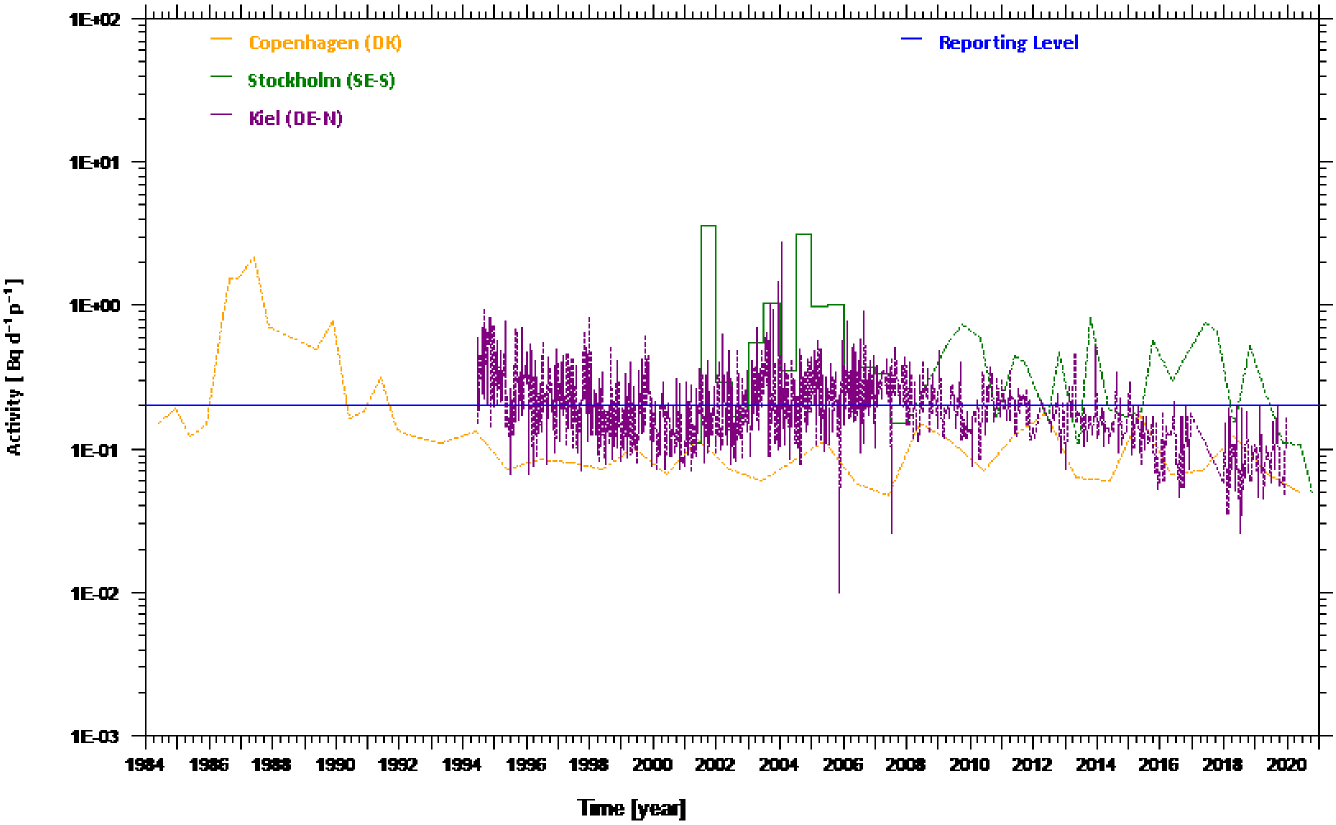


Fig. D30 Activity trends for ^{137}Cs in mixed diet (Copenhagen, Stockholm and Kiel)



Activity trends

SAMPLE TYPE : mixed diet (Bq d⁻¹ p⁻¹)

NUCLIDE CATEGORY : caesium-137 (^{137}Cs)

SPARSE

Fig. D31 Activity trends for ^{137}Cs in mixed diet (Riga, Tallinn and Vilnius)

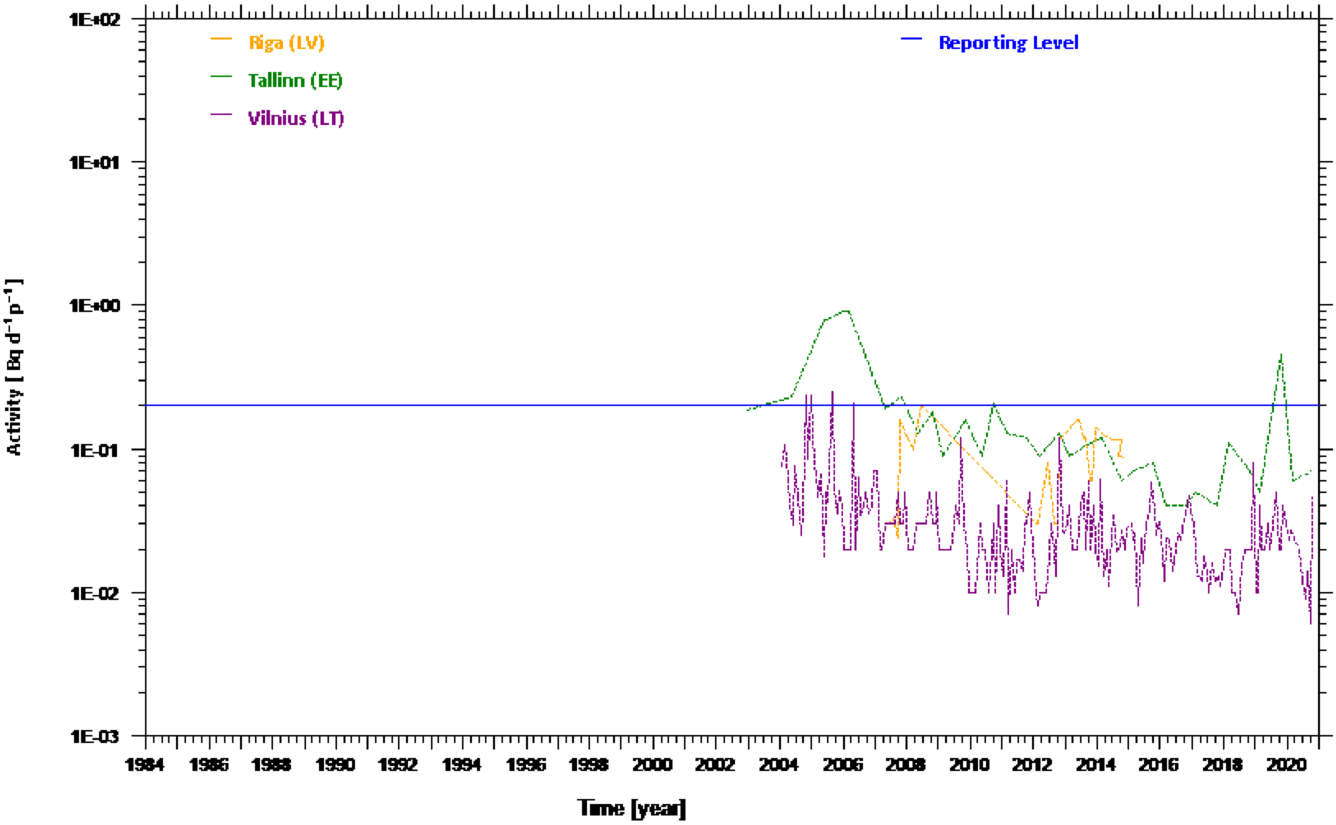


Fig. D32 Activity trends for ^{137}Cs in mixed diet (Belfast and Dublin)

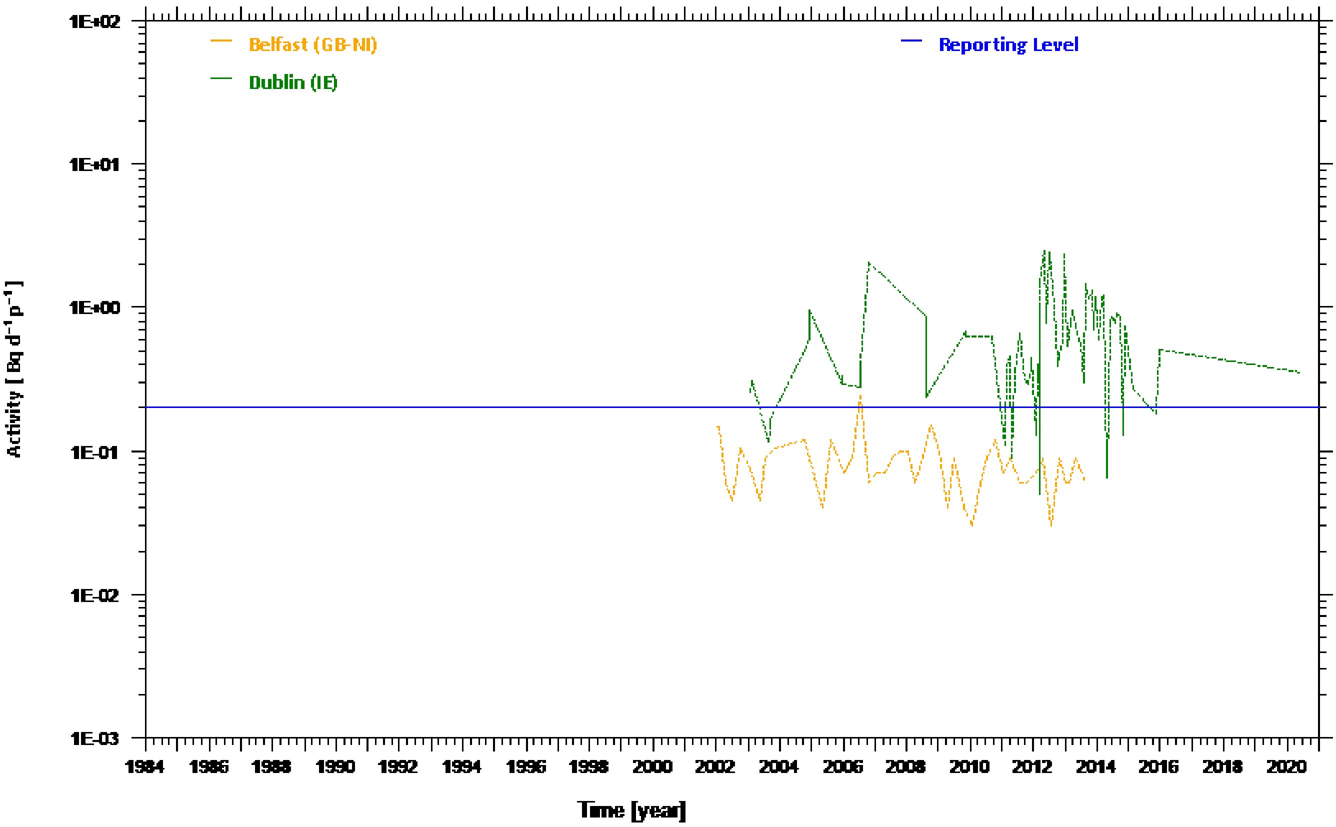


Fig. D33 Activity trends for ^{137}Cs in mixed diet (Oxford and Cardiff)

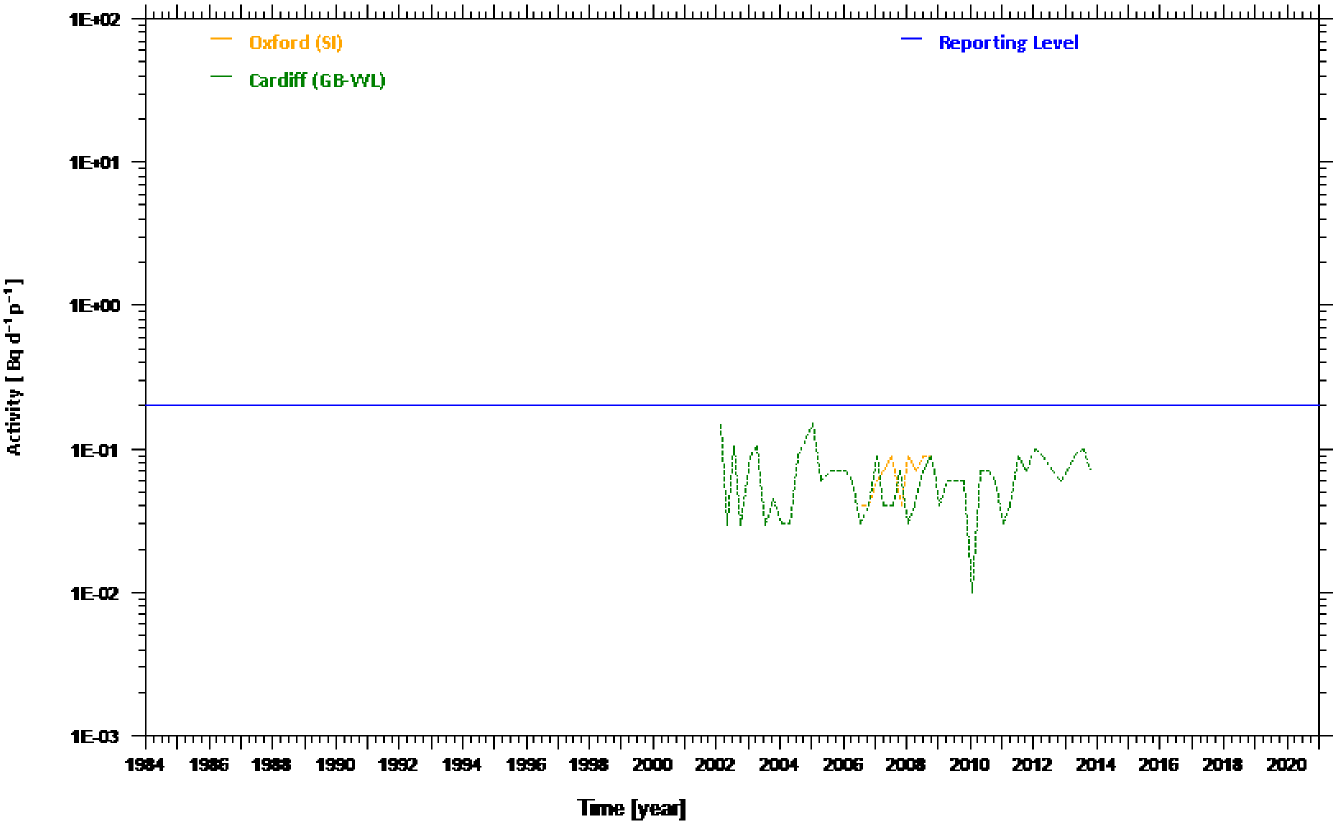


Fig. D34 Activity trends for ^{137}Cs in mixed diet (Brussels and Grand-Duche du Luxembourg)

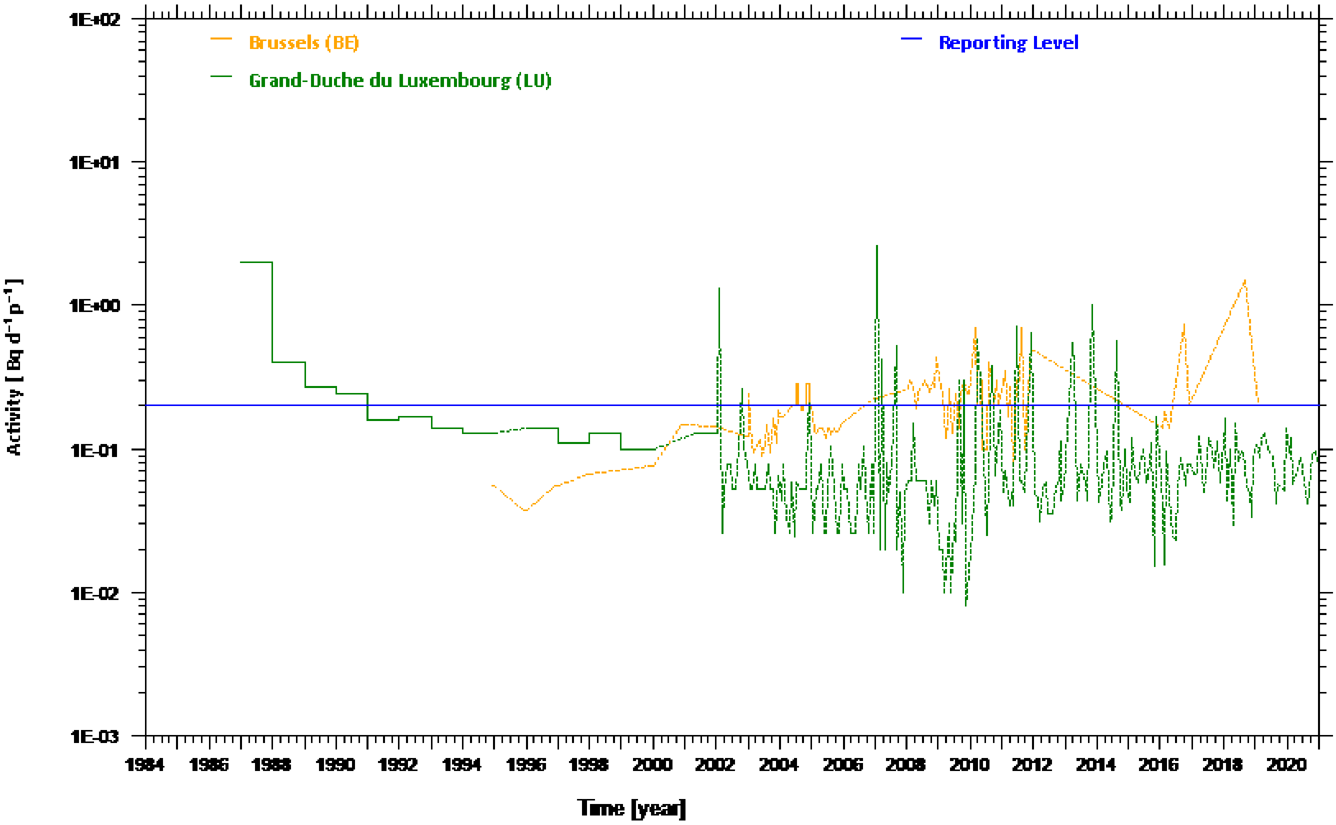


Fig. D35 Activity trends for ^{137}Cs in mixed diet (Berlin and Darmstadt)

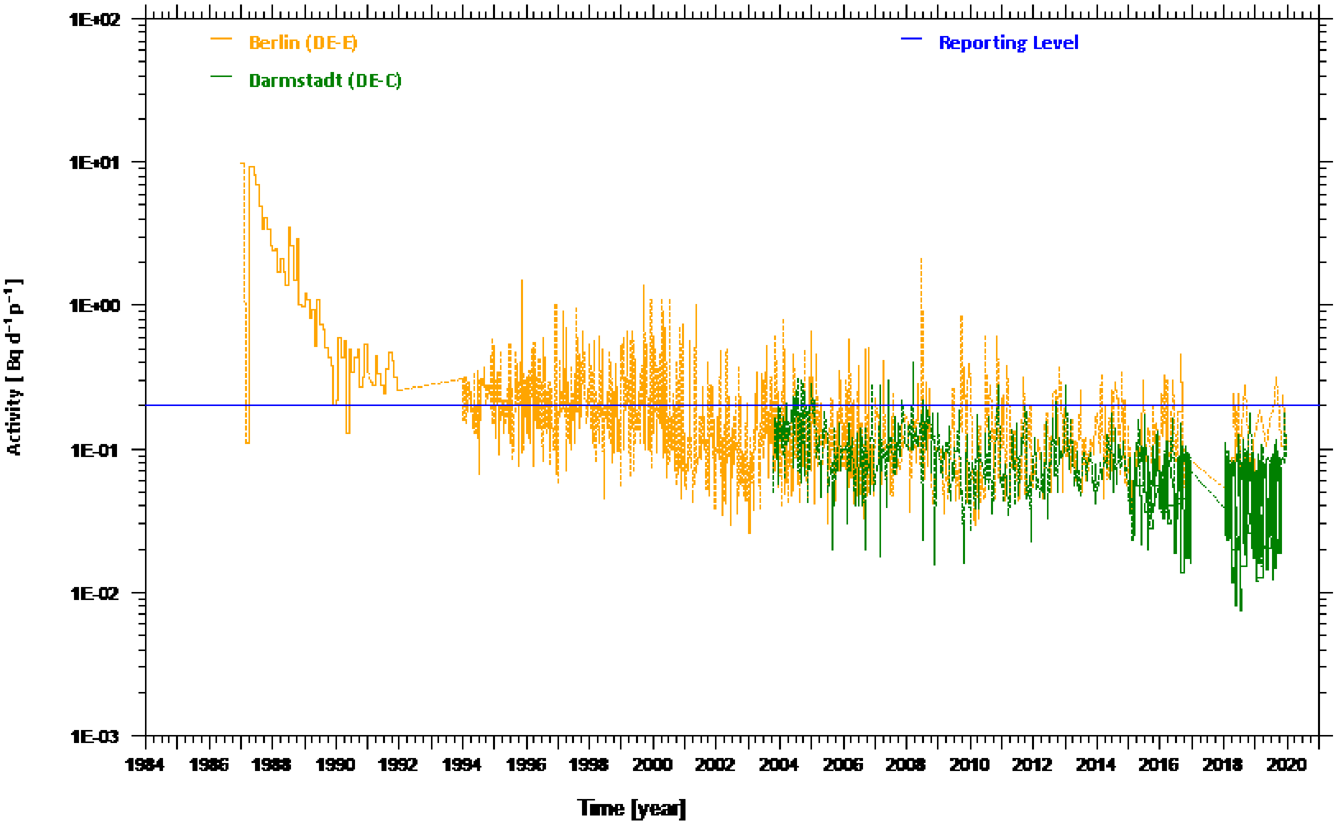
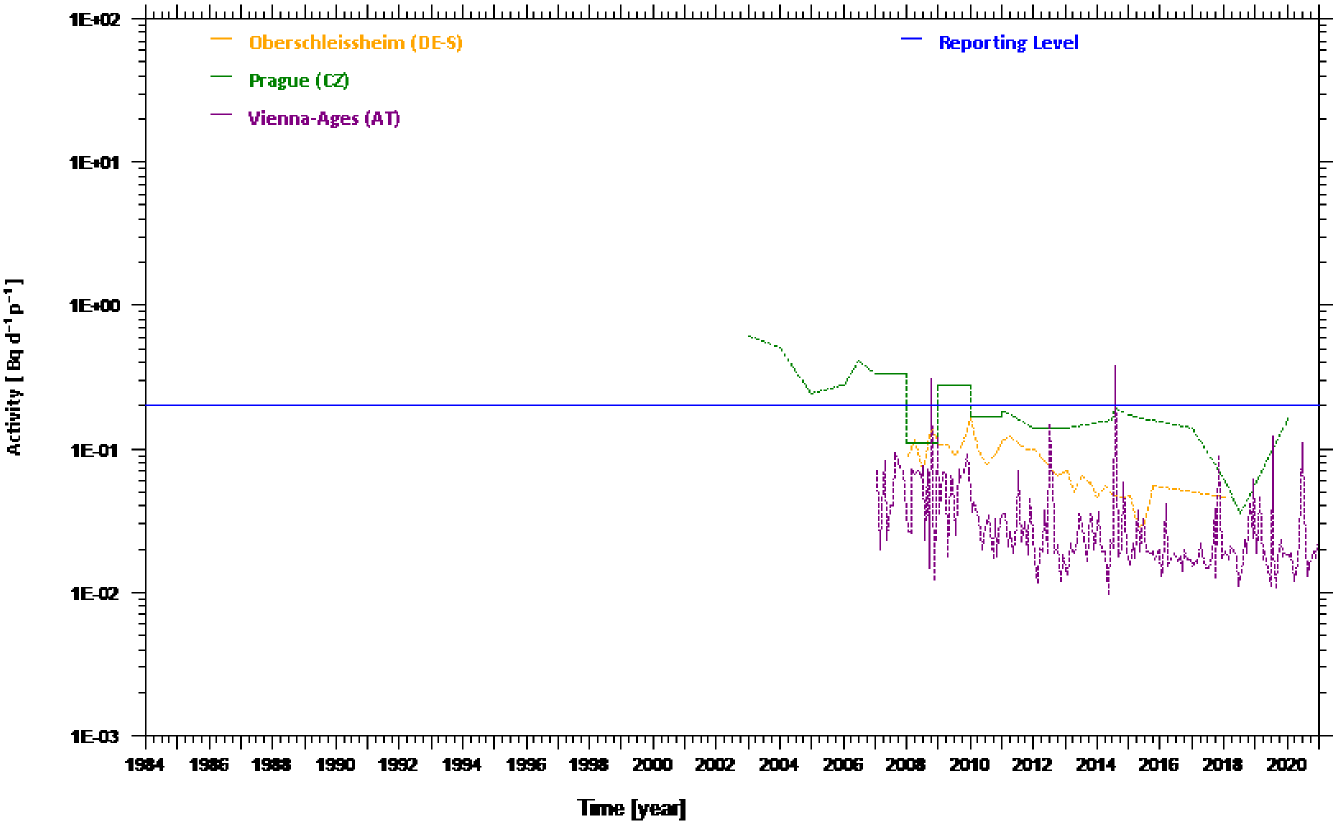


Fig. D36 Activity trends for ^{137}Cs in mixed diet (Oberschleissheim, Prague and Vienna-Ages)



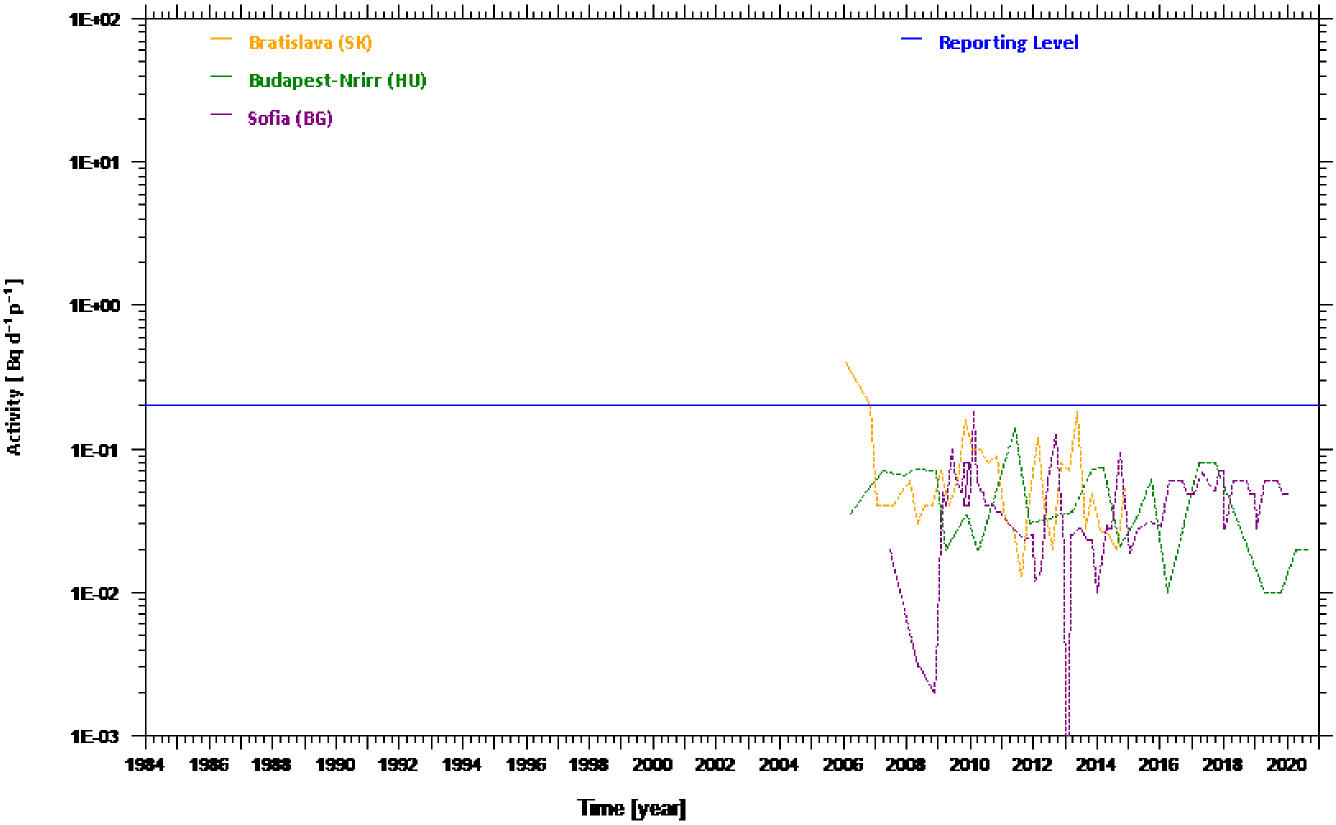
SPARSE

Activity trends

SAMPLE TYPE : mixed diet (Bq d^{-1} p^{-1})

NUCLIDE CATEGORY : caesium-137 (^{137}Cs)

Fig. D37 Activity trends for ^{137}Cs in mixed diet (Bratislava, Budapest-Nrirr and Sofia)



Appendix A
Origins and contents of Articles 35 and 36

The treaty establishing the European Atomic Energy Community (EURATOM) was signed in Rome on 25 March 1957. Title 2 of the Euratom Treaty sets out provisions for the encouragement of progress in the fields of nuclear energy.

Chapter III of Title 2 deals with Health and Safety matters.

Article 35 states: *"Each Member State shall establish the facilities necessary to carry out continuous monitoring of the levels of radioactivity in the air, water and soil and to ensure compliance with the basic standards. The Community shall have the right of access to such facilities so that it may verify their operation and efficiency"*.

Article 36 states: *"The appropriate authorities shall periodically communicate information on the checks referred to in Article 35 to the Community so that it is kept informed of the level of radioactivity to which the public is exposed"*.

The Commission Recommendations to Article 36 of the Euratom Treaty (2000/473/Euratom)

In addition to articles 35 and 36 of the Euratom Treaty, a Commission Recommendation (2000/473/Euratom) has been published (OJ L191 of 27.7.2000) in view of providing more detailed information on which sample types and radionuclide categories EU Member States should report to the Commission. In addition, more practical information is provided on recommended procedures and the time frame in which this data transfer has to be done.

The Commission Recommendation provides supplementary information on the sampling locations and of the recommended sample types and radionuclide categories on which information should be transmitted. This is summarised in the two tables below.

Sample type	Sampling locations	Additional information requested
Airborne particulates	Vicinity of densely populated areas ensuring adequate geographical coverage	
External ambient gamma dose-rate		
Surface water	Major inland waters at places for which flow rate information is available and, if relevant, from coastal waters	Average flow rate during which the sample was taken
Drinking water	Compliant with the drinking water directive (98/83/EC) Major ground or surface water supplies and for water distribution networks	Annual water volume distributed or produced
Milk	Dairies, sufficiently spread to ensure a representative average	Production rate
Mixed diet	Separate ingredients from market places or local distribution centres	Composition of mixed diet
	Complete meals from large consumption centres (canteens, restaurants,...)	

Media	Measurement category	
	Dense network	**Sparse network**
Airborne particulates	^{137}Cs, gross beta	^{137}Cs, ^{7}Be
Air	Ambient gamma dose rate	Ambient gamma dose rate
Surface water	^{137}Cs, residual beta	^{137}Cs
Drinking water	^{3}H, ^{90}Sr, ^{137}Cs Natural radionuclides as monitored in compliance with Council Directive 98/83/EC	^{3}H, ^{90}Sr, ^{137}Cs Natural radionuclides as monitored in compliance with Council Directive 98/83/EC
Milk	^{90}Sr, ^{137}Cs	^{90}Sr, ^{137}Cs, ^{40}K
Mixed diet	^{90}Sr, ^{137}Cs	^{90}Sr, ^{137}Cs, ^{14}C

Appendix B

Method for calculating the reporting levels

Reporting levels were used in the report with the aim to improve transparency when bringing together measurements as significant values and as constraint values. Uniform constraint levels have been defined on the basis of their significance from the health point of view, irrespective of the detection limits applied by the different laboratories. Although the calculation is based on a reference annual dose, it needs to be emphasized that the reporting levels are only meant to be a tool for transparent reporting and should not be confused with maximum permitted levels of radioactive contamination. The reporting level RL is derived as:

$$RL = \frac{DL}{RF.EDC.CF} \qquad (1)$$

where: DL = annual dose limit, taken to be 1 millisievert [1]
RF = reduction factor of the dose limit, taken to 1000
EDC = effective dose coefficient in Sv/Bq
CF = annual consumption per person

The basic annual dose limit for the public equals 1 millisievert. This limit, decreased by a factor of thousand, i.e. 1 microsievert, can be regarded as having no radiological significance. Using a nominal probability coefficient of stochastic effects for the whole population of 5.10^{-2} per sievert [1], taking only fatal cancers into consideration, this dose represents a radiological risk of 5.10^{-8} per year.

Reporting levels are introduced only for artificial radionuclides (^{3}H, ^{90}Sr and ^{137}Cs). The actual level for natural radionuclides (^{7}Be) is indicated in the sparse network graphs. The values for the effective dose coefficient (values for adults were considered), the annual consumption and the rounded values of the reporting levels obtained by applying equation 1 are given in the table below.

Sample type	Radionuclide category	EDC [2] (Sv/Bq)	Annual consumption	Reporting level (rounded values)
Air	gross ß (based on ^{90}Sr)	2.4 10^{-8}	8030 m^3 [3]	5.10^{-3} Bq m^{-3}
	^{137}Cs	4.6 10^{-9}	8030 m^3 [3]	3.10^{-2} Bq m^{-3}
Surface water	residual ß (based on ^{90}Sr)	2.8 10^{-8}	60 l *	6.10^{-1} Bq l^{-1}
	^{137}Cs	1.3 10^{-8}	60 l *	1.10^{0} Bq l^{-1}
Drinking water	^{3}H	1.8 10^{-11}	600 l [4]	1.10^{+2} Bq l^{-1}
	^{90}Sr	2.8 10^{-8}	600 l [4]	6.10^{-2} Bq l^{-1}
	^{137}Cs	1.3 10^{-8}	600 l [4]	1.10^{-1} Bq l^{-1}
Milk	^{90}Sr	2.8 10^{-8}	200 l [4]	2.10^{-1} Bq l^{-1}
	^{137}Cs	1.3 10^{-8}	200 l [4]	5.10^{-1} Bq l^{-1}
Mixed diet	^{90}Sr	2.8 10^{-8}	365 d	1.10^{-1} Bq d^{-1} p^{-1}
	^{137}Cs	1.3 10^{-8}	365 d	2.10^{-1} Bq d^{-1} p^{-1}

* assumed to 10 % of the annual drinking water consumption

[1] ICRP publication 60 : 1990 Recommendations of the ICRP, Pergamon Press (1991)
[2] Basic Safety Standards (96/29/Euratom, Tables A and B)
[3] ICRP publication 23 : Reference man: Anatomical, Physiological and Metabolic Characteristics, Pergamon Press (1975)
[4] Commission of the European Communities, Post-Chernobyl Action 5, Underlying data for Derived Intervention Levels, EUR 12553 (1990)

Appendix C

Methods for calculating time and geographical averages

Throughout the report average values were calculated as arithmetic averages with the calculating methods described below.

Air [Bq/m^3]

The average concentration A over a period T and within a geographical area G is calculated as follows:

$$\overline{A} = \frac{1}{N_l} \sum_{l=1}^{N_l} \left(\frac{\sum_{i=1}^{N_{ml}} a_{i,l} \Delta t_{i,l}}{\sum_{i=1}^{N_{ml}} \Delta t_{i,l}} \right) \quad (1)$$

where: $a_{i,l}$ = the value of the i^{-th} measurement with duration $\Delta t_{i,l}$ at location l within G
N_l = the number of locations within G
N_{ml} = number of measurements at location l during T

Surface water [Bq/l]

Only time averages for specific locations over a period T are taken. The following formula is used:

$$\overline{S} = \frac{1}{N_m} \sum_{i=1}^{N_m} s_i \quad (2)$$

where: s_i = value of the i^{-th} measurement
N_m = number of measurements during T

Drinking water and milk [Bq/l]

The average drinking water concentration W, respectively milk concentration M, over a period of time T and within a geographical area G is calculated as follows:

$$\overline{W} = \frac{1}{N_l} \sum_{l=1}^{N_l} \left(\frac{\sum_{i=1}^{N_{ml}} w_{i,l} \Delta t_{i,l}}{\sum_{i=1}^{N_{ml}} \Delta t_{i,l}} \right) \text{ or } \overline{M} = \frac{1}{N_l} \sum_{l=1}^{N_l} \left(\frac{\sum_{i=1}^{N_{ml}} m_{i,l} \Delta t_{i,l}}{\sum_{i=1}^{N_{ml}} \Delta t_{i,l}} \right) \quad (3)$$

where $w_{i,l}$ = value of the ith drinking water measurement performed at location l within G
$m_{i,l}$ = value of the i^{-th} milk measurement performed at location l within G
N_l = number of locations within G
N_{ml} = number of measurements at location l during T

Mixed diet [Bq/d.p]

The average mixed diet concentration D over a period of time T and within a geographical area G is calculated as follows:

$$\overline{D} = \frac{1}{N_l} \sum_{l=1}^{N_l} \left(\frac{\sum_{i=1}^{N_{ml}} d_{i,l} \Delta t_{i,l}}{\sum_{i=1}^{N_{ml}} \Delta t_{i,l}} \right) \quad (4)$$

where: $d_{i,l}$ = the value of the i^{-th} measurement with duration $\Delta t_{i,l}$ at location l within G
N_l = the number of locations within G
N_{ml} = number of measurements at location l during T

Comments

In this report the basic period T is taken to be one month. Quarterly averages were obtained by averaging the corresponding monthly averages. When the available data do not allow the calculation of quarterly averages, semestrial or annual averages are taken.

In most cases data are taken from national reports where, very often, time or space averages are already given. Hence the quantities a, s, w, m and d are sometimes averages themselves, and the calculated averages A, S, W, M and D may only be an approximation of the true average values.

Since the number of measurements per month or region is not always the same, to avoid untoward biases, quarterly and annual regional averages are taken as the mean of the corresponding monthly and quarterly averages respectively. National averages are obtained in the same way starting from the mean of the corresponding monthly regional averages.

Appendix D

Addresses of national competent authorities and main laboratories

Austria

Bundesministerium für Land- und Forstwirtschaft, Umwelt und Wasserwirtschaft
Abteilung V/7 Strahlenschutz
Radetzkystraße 2
A-1031 Wien
www.bmifuw.at

Bundesministerium für Gesundheit
Abteilung III Strahlenschutz
Radetzkystraße 2
A-1031 Wien
www. bmg.gv.at

Österreichische Agentur für Gesundheit und Ernährungssicherheit
Kompetenzzentrum für Strahlenschutz und Radiochemie
Spargelfeldstraße 191
A-1226 Wien
www.ages.at

Belgium

Federal Agency for Nuclear Control (FANC)
Markies Street 1 bus 6A
B - 1000 Brussels
Belgium
www.fanc.fgov.be

SCK.CEN
Boeretang 200
B - 2400 MOL
www.sckcen.be

IRE
Industrial Zone
Avenue de l'Esperance 1
B - 6220 FLEURUS
www.ire.eu

Bulgaria

Executive Environment Agency
136, Tsar Boris III blvd
1618 Sofia

National Center of Radiobiology and Radiation Protection
3, Georgi Sofiiski Blvd
1606 Sofia
http://www.ncrrp.org

Croatia

Ministry of the Interior, Civil Protection Directorate
Nehajska 5
HR-10000 Zagreb, CROATIA
https://civilna-zastita.gov.hr/

Institute for Medical Research and Occupational Health
Ksaverska cesta 2, POB 291
HR-10001 Zagreb, CROATIA
https://www.imi.hr/en/

Cyprus

Radiation Inspection and Control Service
Department of Labour Inspection
12, Apellis Street
1493 Nicosia
www.mlsi.gov.cy/dli

State General Laboratory
44, Kimonos Street
1451 Nicosia
www.moh.gov.cy/sgl

Czech Republic

Státní úřad pro jadernou bezpečnost
Senovážné nám. 9
CZ-11000 Praha 1
www.sujb.cz

Státní ústav radiační ochrany
Bartoškova 28
CZ-14000 Praha 4
www.suro.cz

Denmark

National Institute of Radiation Protection
Knapholm 7
DK - 2730 Herlev
www.sundhedsstyrelsen.dk

Risø National Laboratory for Sustainable Energy
Technical University of Denmark
Postbox 49
DK - 4000 Roskilde
www.dtu.dk

Technical University of Denmark
DTU Environment
Radioecology and Tracer Studies Group
Climate and Monitoring
Frederiksborgvej 399, Building 201
4000 Roskilde
www.dtu.dk

Estonia

Environmental Board
Roheline 64
80010 Pärnu
https://keskkonnaamet.ee/en

Finland

Radiation and Nuclear Safety Authority (STUK)
Jokiniemenkuja 1,
FI-01370 Vantaa
www.stuk.fi

France

Autorité de Sûreté Nucléaire (ASN)
15 Rue Louis Lejeune
F - 92120 Montrouge
www.asn.fr

Institut de Radioprotection et de Sûreté Nucléaire
Pôle santé et environnement
Direction de l'environnement
31, rue de l'Ecluse
B.P. 40035
F - 78116 Le Vesinet
www.irsn.fr

Germany

Bundesministerium für Umwelt, Naturschutz, nukleare Sicherheit und Verbraucherschutz
Referat S II 5
Postfach 120 629
D - 53048 Bonn
www.bmub.bund.de

Deutscher Wetterdienst - Zentrale
Frankfurter Straße 135
D - 63067 Offenbach am Main
www.dwd.de

Bundesamt für Strahlenschutz
Referat PB 3
Ingolstädter Landstraße 1
D - 85764 Oberschleißheim
www.bfs.de

Greece

Greek Atomic Energy Commission
PO Box 60092
GR - 15341 Aghia Paraskevi, Attiki
http://en.eeae.gr

Environmental Radioactivity Laboratory
Institute of Nuclear Technology - Radiation Protection
NCSR "Demokritos"
GR - 15310 Aghia Paraskevi, Attiki
www.ipta.demokritos.gr

Hungary

Ministry of Human Capacities (EMMI)
National Public Health Centre -
Department of Radiobiology and Radiohygiene (NNK SSF)
Anna u. 5.
H-1221 Budapest
https://www.nnk.gov.hu/index.php/sugarbiologiai-es-sugar-egeszsegugyi-foosztaly/foosztaly-kezdolapja

Ministry of Human Capacities (EMMI)
National Public Health Centre (NNK)
Albert Flórián út 2-6
H-1097 Budapest
www.nnk.gov.hu

Ministry of Agriculture and Rural Development (FVM)
Central Agricultural Office Food and Feed Safety Directorate
National Food Investigation Institute, Department of Radiochemistry
Fogoly utca 13-15
H-1182 Budapest
https://www.nebih.gov.hu/en

Ministry of Agriculture
National Food Chain Safety Office, Food Chain Safety Laboratory Directoratw
Radiological Reference Laboratory
Fogoly utca 13-15
H-1182 Budapest
https://www.nebih.gov.hu/en

Ministry of Environment and Water (KvVM):
"Dél-dunántúli Környezetvédelmi, Természetvédelmi és Vízügyi Felügyelőség"
(DDKTVF)
Papnövelde u. 13
H-7621 Pécs
www.ddkvf.hu

Baranya County Government Office, Department of Public Health, Laboratory Section
Szabadság út 7.
H-7623 Pécs
https://www.kormanyhivatal.hu/hu/baranya/

Hungarian Atomic Energy Authority
Fényes Adolf utca 4
H-1036 Budapest
www.oah.hu

Nuclear Power Plant Paks
H-7031 Paks, P.O.B.: 71
http://www.atomeromu.hu/hu/Lapok/default.aspx

Ireland

Environment Protection Agency
Johnstown Castle Estate
Wexford, Y35 W821
Ireland
www.epa.ie

Italy

ISIN - National Inspectorate for Nuclear Safety and Radiation Protection
Via Capitan Bavastro 116
I - 00154 Roma
https://www.isinucleare.it

ISPRA - Institute for Environmental Protection and Research
Via Vitaliano Brancati 48
I - 00144 Roma-EUR
http://www.isprambiente.gov.it

Latvia

Latvian Environment, Geology and Meteorology Agency
Maskavas 165,
Riga, LV-1019
www.lvgma.gov.lv

Food and Veterinary Service
Peldu 30
Riga, LV-1050
www.pvd.gov.lv

National Diagnostic Centre
Lejupes 3
Riga, LV-1076
www.ndc.gov.lv

Lithuania

Environmental Protection Agency
Environment Research Department
Radiology Division
Juozapaviciaus 9
LT- 09311, Vilnius
www.gamta.lt

Radiation Protection Center
Department of Expertise and Exposure Monitoring
Division of Public Exposure Monitoring
Kalvariju153
LT-08352, Vilnius
www.rsc.lt

National Food and Veterinary Risk Assessment Institute (former National Food and Veterinary Laboratory)
Radiology section
J.Kairiukscio 10
LT-08409 Vilnius
www.nmvrvi.lt

Luxembourg

Direction de la Santé - Division de la Radioprotection
Villa Louvigny
Allée Marconi
L-2120 Luxembourg
Luxembourg
www.radioprotection.lu

new address from July 2022:
6b, rue Nicolas-Ernest Barblé,
L-1210 Luxembourg
Luxembourg
www.radioprotection.lu

Malta

Radiation Protection Commission
Unit F22
Mosta Technopark
Mosta
MST 3000
www.gov.mt

the Netherlands

Autoriteit Nucleaire Veiligheid en Stralingsbescherming (ANVS)
Koningskade 4
2596 AA Den Haag
Netherlands
https://www.autoriteitnvs.nl/

National Institute for Health and the Environment (RIVM) - Centrum Veiligheid
Postbus 1
NL - 3720 BA Bilthoven
www.rivm.nl

Rijkswaterstaat Centrale Informatievoorziening (RWS CIV)
Afdeling Laboratorium
Postbus 2232
3500 GE UTRECHT
Netherlands
https://www.rijkswaterstaat.nl/water/waterdata-en-waterberichtgeving/waterdata

Wageningen Food Safety Research (WFSR)
Akkermaalsbos 2
6708 WB Wageningen
Netherlands
https://www.wur.nl/

Poland

Central Laboratory for Radiological Protection
7, Konwaliowa Str.
03-194 Warsaw
www.clor.waw.pl

National Atomic Energy Agency
36, Krucza Str.
00-522 Warsaw
www.paa.gov.pl

National Atomic Energy Agency
17, Bonifraterska
00-220 Warsaw
www.paa.gov.pl

Portugal

Instituto Tecnológico e Nuclear (ITN)
Unidade de Protecção e Segurança Radiológica (UPSR)
Estrada Nacional 10, Apartado 21
P - 2686 Sacavém
www.itn.pt

Instituto Superior Técnico
Campus Tecnológico e Nuclear
Laboratório de Proteção e Segurança Radiológica
Estrada Nacional 10 (km 139.7)
2695-066 Bobadela LRS
www.itn.pt

Romania

Ministry of Environmental, Water and Forest, National Environmental Protection Agency, National Reference Radioactivity Laboratory
294 Splaiul Independentei, Sector 6, Bucharest, Romania
www.anpm.ro

Ministry of Health, National Institute of Public Health
5Th District
1-3 Dr. Leonte Anastasievici Street
Romania
https://insp.gov.ro

Slovak Republic

Public Health Authority of the Slovak republic
Trnavska 52,
P.O.BOX 45
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Appendix E

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Radioactivity in Food and the Environment, 2018

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Mark Toner, SEPA; Laura Davies, SEPA; Gillian Sinclair SEPA Personal communication.

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APPENDIX F

The REM Data bank

After the accident at Chernobyl, a task Force was created by the relevant Directorates of the European Commission (EC) to re-examine all aspects of nuclear safety. The necessity of interpreting a large number of data on environmental radioactivity led to the creation of the REM (Radioactivity Environmental Monitoring) data bank at the Joint Research Centre, Ispra in Italy for holding data on the contamination resulting from the Chernobyl accident.

At a meeting with Member State representatives for the purposes of Articles 35 and 36 of the Euratom Treaty (Luxembourg, October 1987), it was decided to take advantage of the informatic structure of the REM data bank to streamline the various formats adopted in the EU for reporting routine environmental measurements and to prepare the EC report concerning these data in a more systematic way.

The information in REM largely concerns radioactivity levels in Europe of air, deposition, water, milk, meat, crops and vegetables from 1.1.1984 and is continuously being updated. Each data record contains information describing the sample measurement (value, nuclide, etc.), the sample type, location and date of sampling and source of the data.

The REM Data bank contains more than 5,400,000 data records as of October 2023.

For further information please contact:
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Appendix G

List of Figures and Tables

Introduction

Dense network results (2015-2020)

Sparse network results (1984-2020)

Glossary

ABSORBED DOSE	The amount of energy imparted by the ionising radiation to unit mass of absorbing material. It is expressed in gray, Gy. (1 Gy = 1 Joule per kilogram).
ACTIVITY	The amount of a radionuclide at a given time. It expresses the rate at which radioactive transformations occur. The unit of measurement is the becquerel, Bq. (1 Bq = one transformation per second).
ALPHA PARTICLE	A particle, consisting of two protons and two neutrons, which is emitted from the nucleus of certain radionuclides.
ATOM	The smallest portion of an element that can combine chemically with other atoms.
BECQUEREL	see Activity.
BETA PARTICLE	High energy electron which is emitted from the nucleus of certain radionuclides.
CONSTRAINT VALUE	Activity value known to be less than a certain value.
COSMIC RAYS	High energy ionising radiation from outer space.
DOSE	The term used either for individual absorbed dose or effective dose.
DOSE LIMIT	Recommended by the ICRP and authorised by regulatory authorities to apply to occupational and public exposure.
EFFECTIVE DOSE	Weighted sum of the equivalent doses to the various organs or tissues. The weighing factors are derived from the risk of stochastic effect to the individual tissue or organ. The unit of measurement is the sievert, Sv.
ENVIRONMENTAL MONITORING	The application of automatic or mobile equipment to measure the activity in the environment of a release of radioactivity. The parameters usually include the activity of air, ground deposition, river water, drinking water and milk.
EQUIVALENT DOSE	The quantity obtained by multiplying the absorbed dose by a factor to take into account the relative harmfulness of the various types of ionising radiations. The unit is the sievert, Sv. One sievert produces the same biological effect irrespective of the type of radiation.
GAMMA RAY	A quantity of ionising electromagnetic radiation which is emitted by certain radionuclides.
GRAY	See Absorbed Dose.
GROSS BETA	The total measured beta activity in a sample. Depending on the measurement methodology it may exclude tritium and/or radon.
HALF-LIFE	The time taken for the activity of a radionuclide to lose half of its value by decay. Also referred to as “physical half-life”.
ICRP	The International Commission on Radiological Protection is a non-governmental scientific organisation which publishes recommendations on radiation protection.
IONISING RADIATION	Radiation which has sufficient energy to produce ionisation in matter; includes alpha particles, beta particles, gamma rays, X-rays and neutrons (neutrons cause ionisation indirectly).
ISOTOPE	Nuclides of the same element but with different number of neutrons.
NATURAL BACKGROUND	The radiation field due to naturally occurring radioactivity. It includes radiation arising from the presence of long-lived radionuclides and their daughters in the earth’s crust, atmosphere and cosmic radiation.
NEUTRON	An elementary particle with no electric charge which combines with protons to form an atomic nucleus.
PROTON	An elementary particle with positive electric charge. The amount of protons in an atomic nucleus determines the chemical element.
RADIOACTIVE CONTAMINATION	The undesirable presence of unsealed radioactive materials on surfaces, in air or in water.
RADIOACTIVE DECAY	The decay of a radionuclide by the spontaneous transformation of the nuclides, at a rate represented by the half-life. The rate is expressed as the activity in becquerel, Bq, indicating the number of transformations per second.
RADIONUCLIDE	A species of atom characterised by the number of protons and neutrons (and sometimes by the energy state of the nucleus), and which emits ionising radiation. It is described by the element and the total amount of protons and neutrons (eg caesium-137).
RADON	A naturally occurring radioactive element and the heaviest noble gas. Radon-222 and Radon-220 (also called thoron) are the most important isotopes.
REPORTING LEVEL	Value below which average Activity levels are not quoted exactly in this Monitoring Report.
RESIDUAL BETA	Gross beta activity minus potassium-40 (^{40}K), which is the major natural beta emitting component in surface water.
SIEVERT	See equivalent Dose and Effective Dose.

European Commission

EUR 31768 – Environmental Radioactivity in the European Community 2015 - 2020

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V. Tanner, European Commission, DG Energy (DG ENER), Luxembourg

Luxembourg: Publications Office of the European Union

2023 – 322 pp. – 21,0 x 29,7 cm

EUR – Science for Policy series – ISSN 1831-9424
Radiation protection – ISSN 2315-2826

ISBN 978-92-68-10117-9

DOI 10.2760/761877

Quarterly average values of radioactivity levels in airborne particulates, surface water, drinking water, milk and mixed diet are reported for the twenty-eight countries of the European Union (sparse and dense network) for the years 2015-2020.