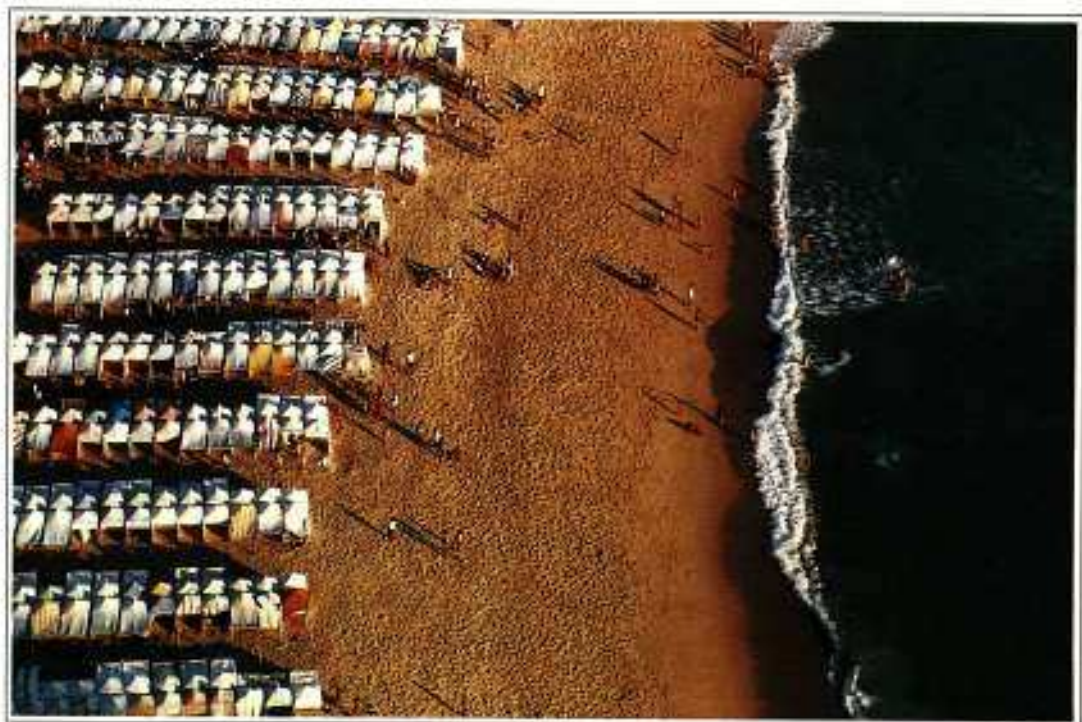




COMMISSION OF THE EUROPEAN COMMUNITIES

QUALITY OF BATHING WATER 1989-1990

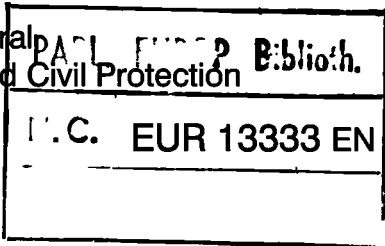


Commission of the European Communities

Environment and quality of life

QUALITY OF BATHING WATER 1989-90

Directorate-General
Environment, Nuclear Safety and Civil Protection



1991

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Introduction

Directive 76/160/EEC introduced procedures for monitoring the quality of bathing water with two objectives: to protect public health and to safeguard the quality of the environment. It also called on the Commission to publish a report summing up the data submitted by the Member States and giving the general public access to the information.

However, incorporation of the Directive into national legislation and effective implementation of the Directive have been hampered by a series of problems, each of which has necessitated infringement procedures. An added problem is that the different limit values laid down, tolerances allowed and data supplied often make it difficult, if not impossible, to compare the results.

The reports and maps for each Member State therefore have to be assessed separately. The new procedures introduced for submission of the data should ensure that they are comparable in future and at the same time speed up publication of the Commission's report.

This is the eighth report published in this series by the Commission. It covers the 1989 bathing season plus the 1990 figures for Belgium, Greece, Luxembourg, The Netherlands and the United Kingdom, these being the only Member States to send these details in time for publication. Portugal is exempt from the Directive until 1992, but nevertheless submitted its 1990 figures for inclusion in this report.

Overall, the results recorded over the last few years show that bathing water quality is improving.

The information for each Member State takes two forms:

- (i) a summary of the principal parameters for the bathing water and of any changes compared with the previous year;
- (ii) one or more maps produced with the aid of the Corine programme to show the microbiological quality of the bathing water in each district, based on coliform counts only.

Directive 76/160/EEC – Annex
(OJ L 31, 5.2.1976)

The values specified in Column I (mandatory) have been set as the minimum bathing water quality in the Member States. Where available they served as the reference values for this report.

Quality requirements for bathing water

Parameters	G	I	Minimum sampling frequency	Method of analysis and inspection
Microbiological:				
1. Total coliforms/100 ml	500	10 000	Fortnightly (1)	Fermentation in multiple tubes. Subculturing of the positive tubes on a confirmation medium. Count according to MPN (most probable number) or membrane filtration and culture on an appropriate medium such as Tergitol lactose agar, endo-agar, 0.4% Teepol broth, subculturing and identification of the suspect colonies. In the case of 1 and 2, the incubation temperature is variable according to whether total or faecal coliforms are being investigated.
2. Faecal coliforms/100 ml	100	2 000	Fortnightly (1)	
3. Faecal streptococci/100 ml	100	—	(2)	Litsky method. Count according to MPN (most probable number) or filtration on membrane. Culture on an appropriate medium.
4. Salmonella/litre	—	0	(2)	Concentration by membrane filtration. Inoculation on a standard medium. Enrichment — subculturing on isolating agar — identification.
5. Enteroviruses PFU/10 litres	—	0	(2)	Concentrating by filtration flocculation or centrifuging and confirmation.
Physico-chemical:				
6. pH	—	6 to 9 (0)	(2)	Electrometry with calibration at pH 7 and 9.

Quality requirements for bathing water (continued)

Parameters	G	I	Minimum sampling frequency	Method of analysis and inspection	
7. Colour	—	No abnormal change in colour (0)	Fortnightly (1)	Visual inspection or photometry with standards on the Pt.Co scale.	
	—	—	(2)		
8. Mineral oils	mg/litre	—	Fortnightly (1)	Visual and olfactory inspection or extraction using an adequate volume and weighing the dry residue.	
	≤ 0.3	—	(2)		
9. Surface-active substances reacting with methylene blue	mg/l (lauryl sulfate)	—	Fortnightly (1)	Visual inspection or absorption spectrophotometry with methylene blue.	
	≤ 0.3	—	(2)		
10. Phenols (phenol indices)	mg/l C ₆ H ₅ OH	—	Fortnightly (1)	Verification of the absence of specific odour due to phenol or absorption spectrophotometry 4-aminoantipyrine (4 AAP) method.	
	≤ 0.005	≤ 0.05	(2)		
11. Transparency	m	2	1 (0)	Fortnightly (1)	Secchi's disc.
12. Dissolved oxygen	% saturation O ₂	80 to 120	—	(2)	Winkler's method or electrometric method (oxygen meter).
13. Tarry residues and floating materials such as wood, plastic articles, bottles, containers of glass, plastic, rubber or any other substance. Waste or splinters	Absence			Fortnightly (1)	Visual inspection.
14. Ammonia	mg/litre NH ₄			(3)	Absorption spectrophotometry, Nessler's method, or indophenol blue method.

Parameters	G	I	Minimum sampling frequency	Method of analysis and inspection
15. Nitrogen Kjeldahl mg/litre N			(3)	Kjeldahl method.
Other substances regarded as indications of pollution:				
16. Pesticides (parathion, HCH, dieldrin) mg/litre			(2)	Extraction with appropriate solvents and chromatographic determination.
17. Heavy metals such as:			(2)	} Atomic absorption possibly preceded by extraction.
arsenic mg/litre As				
cadmium Cd				
chrome VI Cr VI				
lead Pb				
mercury Hg				
18. Cyanides mg/litre Cn			(2)	Absorption spectrophotometry using a specific reagent.
19. Nitrates and phosphates mg/litre NO ₃ PO ₄			(2)	Absorption spectrophotometry using a specific reagent.

G = guide.

I = mandatory.

(0) Provision exists for exceeding the limits in the event of exceptional geographical or meteorological conditions.

(1) When a sampling taken in previous years produced results which are appreciably better than those in this Annex and when no new factor likely to lower the quality of the water has appeared, the competent authorities may reduce the sampling frequency by a factor of 2.

(2) Concentration to be checked by the competent authorities when an inspection in the bathing area shows that the substance may be present or that the quality of the water has deteriorated.

(3) These parameters must be checked by the competent authorities when there is a tendency towards eutrophication of the water.

Belgium – 1989-90

B

Belgium provided a report on the 1989 bathing season by the Institute for Hygiene and Epidemiology (a department of the Ministry of Health and the Environment). This contained these details:

- location of the bathing areas;
- sampling frequency;
- parameters measured or assessed;
- results (exact figures);
- number of samples over the limits;
- diagrams;
- comments and conclusions.

The 1989 bathing season ran from 10 April to 28 September at the coast and from 1 June to 30 September inland.

Belgium also sent in the 1990 data at the last minute. They have been included in the tables and maps, but are not mentioned in the text.

1. Results

The results were assessed on the basis of the national rules in force. These apply the mandatory values laid down in the Directive for all parameters.

A – Seawater bathing areas

Table 1 : Compliance rate for the parameters measured or assessed

Parameters	1988		1989		1990	
	T	NC	T	NC	T	NC
<i>Microbiological</i>						
Total coliforms	39	0	39	1	39	0
Faecal coliforms	39	0	39	2	39	4
Faecal streptococci*	39	20	39	26	39	19
Salmonella	39	8	39	34	24	22
Enteroviruses	0	0	0	0	0	0

Table 1 (continued)

Parameters	1988		1989		1990	
	T	NC	T	NC	T	NC
<i>Physico-chemical</i>						
pH	39	0	39	0	0	0
Colour	39	0	39	0	39	0
Mineral oils	39	0	39	0	39	0
Surface-active substances	39	0	39	0	39	0
Phenols	39	0	39	0	39	0
Transparency	0	0	0	0	0	0
Dissolved oxygen*	39	0	39	0	39	0
Tarry residues*	39	0	39	0	39	0

T : Number of areas sampled.

NC : Number of areas over the limits.

* : Guide value.

In all, 37 (95%) of the bathing areas were within the coliform limits.

In 1989, there was stricter monitoring for salmonella widely; they were detected widely.

The results recorded for the physico-chemical parameters complied with the standards laid down in the Directive. Heavy metals and nutrients were not measured since no standards have been laid down for them.

B – Freshwater bathing areas

Table 2 : Compliance rate for the parameters measured or assessed

Parameters	1988		1989		1990	
	T	NC	T	NC	T	NC
<i>Microbiological</i>						
Total coliforms	51	8	64	6	58	4
Faecal coliforms	51	4	64	6	58	6
Faecal streptococci*	51	20	64	35	58	43
Salmonella	51	12	64	16	58	16
Enteroviruses	0	0	0	0	0	0
<i>Physico-chemical</i>						
pH	51	17	64	33	58	30
Colour	51	0	62	0	58	0
Mineral oils	51	0	62	0	58	0
Surface-active substances	51	0	62	2	58	3
Phenols	51	0	56	0	58	0
Transparency*	51	47	62	45	58	41
Dissolved oxygen*	51	36	56	48	58	18

T : Number of areas sampled.

NC : Number of areas over the limits.

* : Guide value.

In all, 50 (89%) of the 56 points at which samples were taken in line with the Directive and 78% of all the areas were within the coliform limits in 1989.

As regards the physico-chemical parameters, 50% of the pH readings failed to satisfy the standards. The situation as regards transparency and dissolved oxygen was even more critical.

2. Maps

The map in the Annex shows the bathing areas with a 95% compliance rate with the mandatory values laid down for total coliforms and faecal coliforms in the Directive, i.e.:

total coliforms: 10 000/100 ml
 faecal coliforms: 2 000/100 ml

Table 3 shows the values on which the maps are based.

Table 3 : Sampling of bathing areas

	1989		1990	
	Seawater	Freshwater	Seawater	Freshwater
Number of districts	12	59	12	50
Number of sampling points	39	64	39	59
Number of points with inadequate frequency	0	8	0	0
Number of points complying	37	50	35	51
Average sampling frequency	45.0	6.0	40.5	7.9

3. Conclusions

The microbiological quality of the inland, freshwater bathing areas has improved. Sea bathing waters were not as good in 1989 as in 1988. Given that the sources of pollution were the same during these two years this difference is apparently related to different meteorological conditions. Furthermore, the frequent discovery of salmonella indicates that the sea bathing waters, whether affected or not by sewage, rapidly exceed the standard of 0/litre. The physico-chemical quality of the inland bathing areas remains inadequate due to eutrophication. However, the authorities have invested heavily in facilities to purify the effluent discharges into the sea.

Denmark – 1989

Denmark provided a report on the 1989 bathing season prepared by the Ministry of the Environment. This contained the following details for both the seawater and freshwater bathing areas:

- location of the bathing areas;
- sampling frequency;
- parameters measured or inspected;
- results (median and range);
- number of samples over the limits (optional data);
- statistical assessment of quality;
- maps;
- comments and conclusions.

The 1989 bathing season started on 1 June and ended on 1 October.

1. Results

The results were assessed on the basis of the national rules in force. These apply the mandatory values laid down in the Directive for all parameters except the following, for which these stricter values have been adopted:

faecal coliforms:	1 000/100 ml
chemicals:	absence

The statistical assessment classified water quality into three categories, generally defined as:

- (a) water of high quality: no or, possibly, small numbers of coliforms; no source of pollution;
- (b) water of dubious quality: possibly large numbers of coliforms;
- (c) waters in which bathing is prohibited: permanent pollution.

Seawater and freshwater bathing areas

The report from the Danish authorities draws no distinction between seawater and freshwater areas. Table 1 therefore combines the figures for all 1 370 bathing areas, of which 1 230 are at the coast.



Table 1 : Compliance rate for the parameters measured or assessed

Parameters	1988		1989	
	T	NC	T	NC
<i>Microbiological</i>				
Total coliforms	1 369	230	1 370	146
Faecal coliforms				
Faecal streptococci	0	0	0	0
Salmonella	0	0	0	0
Enteroviruses	0	0	0	0
<i>Physico-chemical</i>				
pH	—	—	—	—
Colour	—	—	—	—
Mineral oils	—	—	—	—
Surface-active substances	—	—	—	—
Phenols	—	—	—	—
Transparency	—	—	—	—

T : Number of areas sampled.

NC : Number of areas over the limits.

— : No results sent.

In all, 1 224 (89%) of the points sampled were within the coliform limits. Bathing was banned at 89 sampling points in 49 areas. The competent authorities found no evidence calling for analysis of the salmonella or enterovirus content.

The results of the physico-chemical analyses were not sent to the Commission.

2. Maps

The map in the Annex shows the bathing areas complying with the faecal coliform limit. In some cases it was impossible to see from the data supplied by the Danish authorities the areas with a 95% compliance rate with the mandatory values laid down in the Directive. The maps therefore show the assessment of water quality based on statistical processing of the figures recorded for the season in question.

Table 2 shows the values on which the maps are based.

Table 2 : Sampling of bathing areas

Seawater and freshwater — 1989	
Number of districts	178
Number of sampling points	1 370
Number of measuring points with inadequate sampling frequency	0
Number of measuring points complying	1 224
Number of measuring points at which bathing was prohibited	89
Average sampling frequency	12.2

3. Conclusions

The bacteriological quality of bathing water has improved since 1988. Over the same period, the number of areas where bathing is prohibited has declined sharply.

At the moment it is difficult to say whether this improvement is attributable to lower pollution levels. It could be due to the particularly favourable conditions in the summer instead.



Federal Republic of Germany – 1989



The Federal Republic of Germany provided a report on the 1989 bathing season by the competent national authorities. This contained these details:

- location of the bathing areas;
- sampling frequency;
- parameters measured or assessed;
- results (exact figures);
- number of samples over the limits;
- comments and conclusions.

The length of the bathing season varies from one *Land* to another. It usually lasts four months.

1. Results

The results from each *Land* were assessed on the basis of the mandatory values laid down in the Directive. However, Baden-Württemberg has adopted a stricter value of 1 000/100 ml for faecal coliforms.

Seawater and freshwater bathing areas

The report provided by the national authorities draws no distinction between seawater and freshwater bathing areas. Table 1 therefore covers both.

Table 1: Compliance rate for the parameters measured or assessed

Parameters	1988		1989	
	T	NC	T	NC
<i>Microbiological</i>				
Total coliforms	549	36	1 649	139
Faecal coliforms	549	36	1 654	125
Faecal streptococci	3	0	0	0
Salmonella	64	4	664	32
Enteroviruses	5	4	151	4

Table 1 (continued)

Parameters	1988		1989	
	T	NC	T	NC
<i>Physico-chemical</i>				
pH	167	12	1 284	143
Colour	185	26	1 219	163
Mineral oils	189	0	1 222	1
Surface-active substances	178	6	1 206	81
Phenols	194	0	1 202	0
Transparency	193	632	1 288	305

T : Number of areas sampled.

NC : Number of areas over the limits.

The number of monitoring points has risen sharply since 1988. In all, 1 213 (90%) of the 1 350 points sampled at at least the minimum frequency laid down in the Directive conformed to its standards for coliforms, and 73% of all the areas were within the coliform limits.

In the course of the 1989 season, bathing was banned in a few areas in Schleswig-Holstein, North Rhine-Westphalia, Rheinland-Pfalz and Baden-Württemberg.

The local authorities traced the sources of the pollution. In several cases, measures were taken to put an end to the problem.

The arrangements for monitoring the physico-chemical parameters varied from one *Land* to another. Bathing was prohibited in the Zieselmaar, after excessive values were recorded. Elsewhere, signs of eutrophication were detected in the Eichbaumsee.

2. Maps

The map in the Annex shows the bathing areas with a 95% compliance rate with the mandatory values laid down for total coliforms and faecal coliforms in the Directive, i.e.:

total coliforms: 10 000/100 ml

faecal coliforms: 2 000/100 ml

Table 2 shows the values on which the maps are based.

Table 2 : Sampling of bathing areas

	Seawater and freshwater – 1989
Number of districts	917
Number of sampling points	1 668
Number of points with inadequate sampling frequency	318
Number of points complying	1 213
Average sampling frequency	7.0

3. Conclusions

It is very difficult to compare the quality of the bathing water in 1988 and 1989, since many more areas are now assessed.

However, on the whole, bathing water quality in the areas monitored is good.



Greece — 1989-90



Greece provided a report on the 1989 bathing season by the Ministry of the Environment Planning and Public Works. This contained these details:

- location of the bathing areas;
- sampling frequency;
- parameters measured or assessed;
- results (exact figures);
- statistical assessment of compliance with the mandatory values and guide values laid down in the Directive;
- comments.

The 1989 bathing season started on 1 May and ended on 31 October. It can vary between five and six months, depending on the geographical location of the areas. Greece also submitted the 1990 data on diskette following the new procedure agreed between the Commission and the Member States.

1. Results

The results were assessed on the basis of the mandatory values laid down in the Directive.

However, the national legislation lays down these stricter values for two parameters:

faecal coliforms: 500/100 ml
transparency: 2 m

Seawater and freshwater bathing areas

Table 1 : Compliance rate for the parameters measured or assessed

Parameters	1988		1989		1990	
	T	NC	T	NC	T	NC
<i>Microbiological</i>						
Total coliforms	247	8	554	20	689	10
Faecal coliforms	247	12	532	20	689	25
Faecal streptococci	0	0	33	0	0	0
Salmonella	0	0	0	0	0	0
Enteroviruses	0	0	0	0	0	0

Table 1 (continued)

Parameters	1988		1989		1990	
	T	NC	T	NC	T	NC
<i>Physico-chemical</i>						
pH	0	0	0	0	0	0
Colour	0	0	0	0	0	0
Mineral oils	0	0	0	0	0	0
Surface-active substances	0	0	0	0	0	0
Phenols	0	0	0	0	0	0
Transparency	0	0	0	0	0	0

T : Number of areas sampled.

NC : Number of areas over the limits.

In the 1989 season, 263 (93%) of the 282 points sampled at at least the minimum frequency laid down in the Directive and 48% of all the areas were within the coliform limits.

The 1990 results show that water quality has improved somewhat: 94% of bathing areas comply. The number of areas monitored has increased by 24% in comparison with the report for 1988.

In 1989 a total of 261 bathing areas complied with the national standards for faecal coliforms, compared with 423 in 1990.

In 1989, the sampling frequency was inadequate in 47% of the bathing areas, compared with 31% in 1990. This may perhaps be accounted for by the unusual geography of Greece (16 000 km of coast and 3 000 islands) which hinders communications and the systematic monitoring of water quality in some bathing areas.

The physico-chemical parameters were measured or assessed in only a few isolated cases.

Concerning freshwater, Greece's long coastline and many islands, together with the absence of large rivers and lakes, do not encourage bathing. However, there are a few isolated freshwater bathing areas.

One of the three monitoring points in Lake Vouliagmeni was within the limits laid down in the Directive.

No conclusions can be drawn about Lake Vegoritida, where very few analyses were made.

2. Maps

The map in the Annex shows the bathing areas with a 95% compliance rate with the mandatory values laid down for total coliforms and faecal coliforms in the Directive, i.e.:

total coliforms: 10 000/100 ml
faecal coliforms: 2 000/100 ml

Table 2 shows the values on which the maps are based.

Table 2 : Sampling of bathing areas

	Seawater and freshwater – 1989	Seawater and freshwater – 1990
Number of districts	228	282
Number of sampling points	554	689
Number of points with inadequate sampling frequency	258	214
Number of points complying	263	446
Average sampling frequency	6.0	8.0

3. Conclusions

Bathing water quality is generally high at all the areas monitored. The number of areas monitored has been growing steadily since 1988.

The sampling frequency is highest in July, the peak of the bathing season. However, it remains inadequate in many bathing areas.

Spain – 1989

ES

Spain provided a report on the 1989 bathing season by the Ministry of Health and Consumer Affairs. This contained the following details for both seawater and freshwater bathing areas:

- location of the bathing areas;
- sampling frequencies;
- parameters measured or assessed;
- results (median and range);
- number of samples over the limits;
- assessment of the quality into categories 2, 1 and 0 according to national standards;
- map 1 : 1.000.000;
- comments and conclusions.

The length of the bathing season decided by each autonomous district varies between 2 and 11 months depending upon geographical and climatic factors.

1. Results

The results were assessed on the basis of the mandatory values and guide values laid down in the Directive. However, under the national rules in force the Spanish authorities classify water quality into three categories: 2, 1 and 0. Water classified in category 2 has to satisfy these stricter national values (guide values):

total coliforms: 500/100 ml
 faecal coliforms: 100/100 ml
 faecal streptococci: 100/100 ml

Inclusion in category 1 is based upon mandatory values.

A – Seawater bathing areas

Table 1 : Compliance rate for the parameters measured or assessed

Parameters	1988		1989	
	T	NC	T	NC
<i>Microbiological</i>				
Total coliforms	985	100	1 096	109
Faecal coliforms	985	163	1 096	148
Faecal streptococci	462	225	540	181
Salmonella	6	0	6	4
Enteroviruses	0	0	0	0

Table 1 (continued)

Parameters	1988		1989	
	T	NC	T	NC
<i>Physico-chemical</i>				
pH	38	0	25	0
Colour	222	12	641	25
Mineral oils	279	18	702	8
Surface-active substances	80	4	495	20
Phenols	80	3	495	3
Transparency	148	36	641	30
Floating materials	496	46	515	15

T : Number of areas sampled.

NC : Number of areas over the limits.

In all, 876 (84%) of the 1 047 points sampled at at least the minimum frequency laid down in the Directive and 80% of all the areas were within the coliform limits.

In 63.1% of the bathing areas, the water was classified as category 2, i.e. of the highest quality.

B – Freshwater bathing areas

Table 2 : Compliance rate for the parameters measured or assessed

Parameters	1988		1989	
	T	NC	T	NC
<i>Microbiological</i>				
Total coliforms	291	105	184	27
Faecal coliforms	306	140	184	25
Faecal streptococci	5	3	70	14
Salmonella	0	0	0	0
Enteroviruses	0	0	0	0
<i>Physico-chemical</i>				
pH	0	0	0	0
Colour	37	4	123	15
Mineral oils	37	2	132	9
Surface-active substances	37	1	124	9
Phenols	29	0	107	0
Transparency	20	7	114	14
Floating materials	5	2	80	8

T : Number of areas sampled.

NC : Number of areas over the limits.

In all, 104 (76%) of the 137 points sampled in line with the Directive and 57% of all the areas were within the coliform limits.

It must be added that the number of areas sampled has fallen sharply, from 306 in 1988 to 184 in 1989. This reduction is explained by the rationalization of the number of areas monitored according to the extent of their use.

2. Maps

The map in the Annex shows the bathing areas with a 95% compliance rate with the mandatory values laid down for total coliforms and faecal coliforms in the Directive, i.e.:

total coliforms: 10 000/100 ml
faecal coliforms: 2 000/100 ml

Table 3 shows the values on which the maps are based.

Table 3 : Sampling of bathing areas

	Seawater 1989	Freshwater 1989
Number of districts	314	141
Number of sampling points	1 096	184
Number of points with inadequate sampling frequency	49	47
Number of points complying with mandatory values	876	104
Average sampling frequency	13.9	7.2

3. Conclusions

Water quality at the seawater bathing areas has improved since 1988.

It is impossible to assess the change in the quality of water at inland bathing areas because of the large variation in the number of such areas.

In 1989 the monitoring of bathing water quality was generally stricter than in previous years.

France — 1989



France provided two reports on the 1989 bathing season by the Ministry of Solidarity, Health and Social Security, one on seawater bathing areas, the other on freshwater bathing areas. They contained these details:

location of the bathing areas;

sampling frequency;

assessment of quality, classified into categories A, B, AB, C, D and CD;

diagrams;

comments and conclusions.

The 1989 bathing season started on 15 June and ended on 30 September. In Guadeloupe, Martinique and Réunion, the bathing season lasts all year round.

1. Results

The results were assessed on the basis of the national rules in force. These apply the mandatory values laid down in the Directive for all parameters. Bathing water in France has to satisfy two further conditions:

- (i) it must not irritate eyes, skin and mucous membranes;
- (ii) it must contain no substances in quantities harmful to bathers' health.

It must also be added that the French authorities classify water quality into six categories: A, B, AB, C, D and CD on the basis of a statistical assessment of all the results. Water classified in category A has to satisfy these stricter national values (the guide values in Directive 76/160/EEC):

total coliforms:	500/100 ml
faecal coliforms:	100/100 ml
faecal streptococci:	100/100 ml



A – Seawater bathing areas

Table 1 : Compliance rate for the parameters measured or assessed

Parameters	1988		1989	
	T	NC	T	NC
<i>Microbiological</i>				
Total coliforms	1 723	257	1 751	185
Faecal coliforms				
Faecal streptococci				
Salmonella	—	—	—	—
Enteroviruses	—	—	—	—
<i>Physico-chemical</i>				
pH	—	—	—	—
Colour	—	—	—	—
Mineral oils	—	—	—	—
Surface-active substances	—	—	—	—
Phenols	—	—	—	—
Transparency	—	—	—	—

T : Number of areas sampled.
NC : Number of areas over the limits.
— : Results not supplied.

In all, 1 478 (89%) of the 1 663 points sampled at at least the minimum frequency laid down in the Directive and 84% of all the areas were within the coliform limits.

Most of the bathing areas with an inadequate sampling frequency are in Guadeloupe.

Some 32% of the bathing areas were classified as category A, i.e. of the highest water quality.

The overall classification on the basis of coliforms (total and faecal) and faecal streptococci does not permit results for the individual parameters to be shown separately. Also, no detailed information on the physico-chemical parameters was supplied to the Commission.

B – Freshwater bathing areas



Table 2 : Compliance rate for the parameters measured or assessed

Parameters	1988		1989	
	T	NC	T	NC
<i>Microbiological</i>				
Total coliforms	2 061	429	1 972	250
Faecal coliforms				
Faecal streptococci				
Salmonella	–	–	–	–
Enteroviruses	–	–	–	–
<i>Physico-chemical</i>				
pH	–	–	–	–
Colour	–	–	–	–
Mineral oils	–	–	–	–
Surface-active substances	–	–	–	–
Phenols	–	–	–	–
Transparency	–	–	–	–

T : Number of areas sampled.

NC : Number of areas over the limits.

– : Results not supplied.

In all, 1 473 (86%) of the 1 722 points sampled in line with the Directive and 75% of all the areas were within the coliform limits. 5.7% of the waters were classified as category A.

The overall classification on the basis of coliforms (total and faecal) and faecal streptococci does not permit results for the individual parameters to be shown separately. Also, no detailed information on the physico-chemical parameters was supplied to the Commission.

The 250 bathing zones with inadequate sampling frequency include little-used areas which are monitored essentially with regard to environmental protection.

2. Maps

The maps in the Annex show the seawater and freshwater bathing areas with a 95% compliance rate with the mandatory values laid down for total coliforms and faecal coliforms in the Directive, i.e.:

total coliforms: 10 000/100 ml
faecal coliforms: 2 000/100 ml

These correspond to categories A, AB and B in the French legislation.

Table 3 shows the values on which the maps are based.

Table 3 : Sampling of bathing areas

	Seawater 1989	Freshwater 1990
Number of districts	625	1 620
Number of sampling points	1 751	1 972
Number of points with inadequate sampling frequency	88	250
Number of points complying	1 478	1 473
Average sampling frequency	11.1	5.4

3. Conclusions

The changes in the sampling points and frequencies rule out direct comparison of the 1988 and 1989 results. Nevertheless, bathing water quality has improved at the points monitored in both years.

The figures for freshwater reflect a slight slackening of the health monitoring programme. Most of the low quality points are in rivers. To combat this, local campaigns were conducted to increase awareness of contamination and set up pollution treatment facilities.

The public is widely informed about the quality of bathing waters (seawater and freshwater), particularly by the Minitel, code 3615 or 3616, Ideal network, under the heading 'Info plage'.

Ireland — 1989

IRL

Ireland provided a report on the 1989 bathing season by the competent national authorities. This contained these details:

- location of the bathing areas;
- sampling frequency;
- parameters measured or assessed;
- results (median and range);
- number of samples over the limits;
- comments.

The 1989 bathing season started on 1 June and ended on 31 August.

1. Results

The results were assessed on the basis of the national rules in force. These apply the mandatory values laid down in the Directive for all parameters, except the following, for which these stricter values have been adopted:

total coliforms: 5 000/100 ml
faecal coliforms: 1 000/100 ml
faecal streptococci: 300/100 ml
dissolved oxygen: 70 to 120%
tarry residues: absence

Seawater bathing areas

Table 1 : Compliance rate for certain parameters measured or assessed

Parameters	1988		1989	
	T	NC	T	NC
<i>Microbiological</i>				
Total coliforms	54	0	67	0
Faecal coliforms	54	1	67	1
Faecal streptococci	—	—	—	—
Salmonella	7	1	15	0
Enteroviruses	0	0	0	0

Table 1 (continued)

Parameters	1988		1989	
	T	NC	T	NC
<i>Physico-chemical</i>				
pH	30	0	29	0
Colour	50	0	64	0
Mineral oils	50	0	64	0
Surface-active substances	50	0	64	0
Phenols	50	0	64	0
Transparency	42	1	53	1
Dissolved oxygen				
Tarry residues				

T : Number of sampling points.

NC : Number of sampling points over the national standards.

– : Results not supplied.

Twelve new bathing areas have been included in the monitoring programme since 1988; this brings the number to 64.

In all, 64 (99%) of the 65 points sampled at at least the minimum frequency laid down in the Directive and 96% of all the areas were within the national standards for coliforms.

The results for the physico-chemical parameters complied with the national standards, except for the transparency and tarry residues at Dollymount South.

2. Maps

The map in the Annex shows the bathing areas within the total coliform and faecal coliform limits. In some cases it was impossible to see from the data supplied by the Irish authorities the areas with a 95% compliance rate with the mandatory values laid down in the Directive. The maps therefore show the areas with an 80% compliance rate with the national limits.

Table 2 shows the values on which the maps are based.

Table 2 : Sampling of bathing areas

	Seawater 1989
Number of sampling points	67
Number of points with inadequate sampling frequency	2
Number of points complying	64
Average sampling frequency	8.0

3. Conclusions

The results confirm the high quality of the bathing water, particularly on the west coast.



Italy — 1989



Italy provided a report on the 1989 bathing season by the Ministry of Health. This contained the following details for both seawater and freshwater bathing areas:

- location of the bathing areas;
- sampling frequency;
- parameters measured or assessed;
- number of samples over the limits for each parameter;
- tables and diagrams;
- comments and conclusions.

The 1989 bathing season started on 1 May and ended on 30 September, except in Sicily, where it ended on 31 October.

1. Results

The results were assessed on the basis of the national rules to the extent that they are in force. These apply the mandatory values laid down in the Directive for all parameters except the following for which these stricter values have been adopted:

total coliforms: 2 000/100 ml
faecal coliforms: 100/100 ml
faecal streptococci: 100/100 ml
dissolved oxygen: 70 to 120%

A — Seawater bathing areas

Table 1 : Compliance rate for the parameters measured or assessed

Parameters	1988		1989	
	T	NC	T	NC
<i>Microbiological</i>				
Total coliforms	3 115	165	3 615	172
Faecal coliforms	3 115	440	3 615	410
Faecal streptococci	3 115	490	3 615	407
Salmonella	1 450	23	976	9
Enteroviruses	780	0	163	0

Table 1 (continued)

Parameters	1988		1989	
	T	NC	T	NC
<i>Physico-chemical</i>				
pH	3 115	12	3 381	14
Colour	3 115	172	3 381	209
Mineral oils	3 115	10	3 381	5
Surface-active substances	3 115	115	3 381	103
Phenols	3 115	12	3 381	15
Transparency	3 115	222	3 381	317
Dissolved oxygen	3 115	111	3 381	99

T : Number of areas sampled at the frequency set by the Directive.

NC : Number of areas over the limits.

In all, 3 205 (89%) of the 3 615 points sampled at at least the minimum frequency laid down in the Directive and 84% of all the 3 833 areas normally monitored were within the coliform limits.

At most of the bathing areas the results of the physico-chemical analyses satisfied all the standards laid down in the Directive except for the transparency standard.

B – Freshwater bathing areas

Table 2 : Compliance rate for the parameters measured or assessed

Parameters	1988		1989	
	T	NC	T	NC
<i>Microbiological</i>				
Total coliforms	471	68	568	83
Faecal coliforms	471	176	568	196
Faecal streptococci	471	135	568	113
Salmonella	291	29	408	22
Enteroviruses	12	0	50	0
<i>Physico-chemical</i>				
pH	471	83	568	120
Colour	471	19	568	31
Mineral oils	471	11	568	0
Surface-active substances	471	1	568	1
Phenols	471	1	568	0
Transparency	471	23	568	34
Dissolved oxygen	471	110	568	109

T : Number of areas sampled at the frequency set by the Directive.

NC : Number of areas over the limits.

In all, 373 (66%) of the 568 points sampled as laid down in the Directive and 61% of all the areas normally monitored were within the coliform limits.

The physico-chemical parameters which deviate from the national standards most frequently are dissolved oxygen in lakes and pH in rivers.



2. Maps

The two maps in the Annex show the seawater and freshwater bathing areas complying with the total coliform and faecal coliform limits. Because Italian law provides stricter values for these parameters than the mandatory values, the maps are based on 80% compliance with the national limit values, as provided for in Article 5 of the Directive.

Table 3 shows the values on which the maps are based.

Table 3 : Sampling of bathing areas

	1989	
	Seawater	Freshwater
Number of districts	592	262
Number of sampling points	3 833	615
Number of points with inadequate sampling frequency	218	47
Number of points complying	3 205	373
Average sampling frequency	11.2	11.3

3. Conclusions

Bathing water quality has improved since 1988. Inland, however, it remains inadequate, particularly in rivers.

The number of seawater areas sampled has fallen by 3.7%, almost exclusively in Calabria.

Luxembourg — 1989-90



Luxembourg provided a report on the 1989 bathing season by the Environment Administration. This contained these details:

- location of the bathing areas;
- sampling frequency;
- parameters measured or assessed;
- results (exact figures);
- comments and conclusions.

Luxembourg also submitted the 1990 data on diskette, following the new procedure agreed between the Commission and the Member States.

Under the existing legislation, the bathing season starts on 15 May and ends on 31 August.

1. Results

The results were assessed on the basis of the mandatory values laid down in the Directive, except for the following parameters, for which these stricter values have been adopted:

faecal streptococci: 1 000/100 ml
dissolved oxygen: 50 to 150%
tarry residues: absence

Freshwater bathing areas

Table 1 : Compliance rate for the parameters measured or assessed

Parameters	1988		1989		1990	
	T	NC	T	NC	T	NC
<i>Microbiological</i>						
Total coliforms	20	3	20	4	20	5
Faecal coliforms	20	3	20	4	20	4
Faecal streptococci	13	0	13	0	14	2
Salmonella	0	0	4	2	4	1
Enteroviruses	0	0	0	0	0	0

Table 1 (continued)

Parameters	1988		1989		1990	
	T	NC	T	NC	T	NC
<i>Physico-chemical</i>						
pH	20	0	20	6	20	0
Colour	20	3	20	0	20	0
Mineral oils	20	0	20	0	20	0
Surface-active substances	20	0	20	0	20	0
Phenols	20	0	20	0	20	0
Transparency	20	0	20	0	20	5
Dissolved oxygen	20	0	20	0	20	0
Tarry residues	20	0	20	0	20	0
Ammonia	20	—	20	—	20	—

T : Number of areas sampled.

NC : Number of areas over the limits.

In the 1989 bathing season, 11 (73%) of the points sampled at at least the minimum frequency laid down in the Directive and 55% of all the areas were within the coliform limits. Bathing was prohibited at some sites where salmonella were detected.

The situation improved in the 1990 season. However, the 1989 ban on bathing in the lower Sûre was maintained.

As well as the physico-chemical parameters subject to the national values set out above, nitrates were also measured.

2. Maps

The map in the Annex shows the bathing areas complying with the mandatory values laid down for total coliforms and faecal coliforms in the Directive, i.e.:

total coliforms: 10 000/100 ml
faecal coliforms: 2 000/100 ml

Table 2 shows the values on which the maps are based.

Table 2 : Sampling of bathing areas

	1989	1990
Number of districts	12	12
Number of sampling points	20	20
Number of points with inadequate sampling frequency	5	0
Number of points complying	11	15
Average sampling frequency	4.5	5.6

3. Conclusions

In 1990, as in 1989, the situation was critical in some bathing areas, particularly in the lower Sûre, where bathing was banned.

The Luxembourg authorities have announced clean-up measures to remedy these problems.

The construction of purification plants is under consideration.



The Netherlands — 1989-90

NL

The Netherlands provided a report on the 1989 bathing season by the Ministry of Transport and Public Works. This contained the following details of bathing water:

- location of the bathing areas;
- parameters measured or assessed;
- assessment of compliance with national standards (+ or -);
- comments and conclusions.

At the Commission's request, details of sampling frequency were supplied.

The 1989 bathing season started on 1 May and ended on 30 September.

The provisional results for 1990 were supplied; although incomplete, they have been included in the tables and maps but no comment is made about them.

1. Results

The results were assessed on the basis of the national rules in force. In some cases, these values differ from those in the Directive. Also, compliance with the coliform and streptococci limits is assessed on the basis of the median of the results recorded. Different limits have been set for the following parameters:

coliforms:	3/ml (median value)
faecal streptococci:	3/ml (median value)
salmonella:	absence in 100 ml
enteroviruses:	absence in 1 litre
surface-active substances:	≤ 0.2 mg/l
mineral oils:	≤ 0.2 mg/l
phenols:	≤ 0.001 mg/l
dissolved oxygen:	≥ 5 mg/l
organic wastes:	absence
pH:	6.5-9.0

Surface water

Water bodies are classified into two categories, depending on the authority responsible:

- (a) State waters, managed by the central government;
- (b) non-State waters, managed by the regional authorities.

Table 1 : Compliance rate for the parameters measured or assessed

Parameters	1988		1989		1990	
	T	NC	T	NC	T	NC
<i>Microbiological</i>						
Total coliforms	0	0	0	0	0	0
Faecal coliforms	75	6	461	17	410	31
Faecal streptococci	75	0	68	0	73	0
Salmonella	13	8	12	2	20	1
Enteroviruses	0	0	0	0	0	0
<i>Physico-chemical</i>						
pH	76	11	461	105	402	118
Colour	0	0	368	41	368	94
Odour	0	0	368	7	0	63
Foam	0	0	420	35	307	57
Wastes	0	0	421	29	327	57
Oil	0	0	421	26	0	34
Transparency	62	31	458	232	402	250
Dissolved oxygen	47	0	261	10	212	11
Anionic detergents	12	0	10	0	0	0
Phenols	0	0	7	0	369	0
Mineral oils	—	—	1	0	307	0

T : Number of areas sampled.

NC : Number of areas over the limits.

In all, 421 (96%) of the 438 points sampled at at least the minimum frequency laid down in the Directive and 90% of all the areas (464) were within the coliform limits.

Most of the bathing areas managed by the central government were checked for streptococci. None of them exceeded the standards.

As regards the physico-chemical parameters, the pH and transparency limits were frequently exceeded. Exemptions from the pH limit have been granted to 57 bathing areas and from the transparency standard to 115 areas, because of the natural conditions there.

2. Maps

The map in the Annex shows the bathing areas complying with the faecal coliform limit. The results provided by the Netherlands authorities showed compliance with national limit values. No conclusions could be drawn concerning compliance with the mandatory values in the Directive. The maps therefore show the measuring points where the median value for the samples complies with the national standards.

Table 2 shows the values on which the maps are based.

Table 2 : Sampling of bathing areas

	Seawater and freshwater	
	1989	1990
Number of districts	464	410
Number of sampling points	464	410
Number of points with inadequate sampling frequency	26	41
Number of points complying	421	338
Average sampling frequency	8.2	8.3

3. Conclusions

The 1989 report is the first to give details of the quality of the bathing water managed by the regional authorities. Consequently, it covers far more bathing areas. Most of the areas covered comply with the national standards for the microbiological parameters. However, the physico-chemical parameters present a different picture, with the pH and transparency standards frequently exceeded, possibly due to eutrophication.

Portugal – 1990



Portugal is exempt from applying Directive 76/160/EEC until 1992.

Nevertheless, the Ministry of the Environment and Natural Resources provided a comprehensive report on bathing water quality during the 1990 season.

This contained these details:

- location of the bathing areas;
- assessment of compliance;
- summary and comments.

Under the legislation in force, the bathing season started on 1 June and ended on 30 September.

1. Results

The results were assessed on the basis of the national rules in force. These apply the mandatory values laid down in the Directive for all parameters.

Total and faecal coliforms were measured regularly during the 1990 season. Faecal streptococci were not systematically recorded.

As regards the physico-chemical parameters, colour, mineral oils, surface-active substances and phenol were measured at every bathing area. In addition, pH and transparency were measured at a few bathing areas.

A minimum of 10 samples were taken at each bathing area.

The monitoring programme covered 210 bathing areas, of which 183 (87%) complied with the total coliform and faecal coliform standards laid down in the Directive.

2. Maps

The map in the Annex shows the bathing areas with a 95% compliance rate with the mandatory values laid down for total coliforms and faecal coliforms in the Directive, i.e.:

total coliforms: 10 000/100 ml
faecal coliforms: 2 000/100 ml



Table 1 shows the values on which the maps are based.

Table 1 : Sampling of bathing areas

	Seawater 1989
Number of districts	70
Number of sampling points	210
Number of points with inadequate sampling frequency	0
Number of points complying	183
Average sampling frequency	> 10

3. Conclusions

The 1990 data, the first recorded, show that bathing water is of high quality as far as the microbiological parameters are concerned.

United Kingdom — 1989-90



The United Kingdom provided a report on the 1989 bathing season prepared by the competent national authorities. This contained these details:

- location of the bathing areas;
- sampling frequency;
- parameters measured or assessed;
- results (median and range);
- number of samples over the limits;
- comments.

The United Kingdom also submitted the 1990 data on diskette, following the new procedure agreed between the Commission and the Member States.

Generally the bathing season runs from 15 May to 30 September in England and Wales and from 1 June to 15 September in Scotland and Northern Ireland.

1. Results

The results were assessed on the basis of the mandatory values laid down in the Directive.

Seawater bathing areas

Table 1 : Compliance rate for the parameters measured or assessed

Parameters	1988		1989		1990	
	T	NC	T	NC	T	NC
<i>Microbiological</i>						
Total coliforms	403	83	440	52	446	61
Faecal coliforms	403	135	440	102	446	98
Faecal streptococci	0	0	0	0	0	0
Salmonella	194	64	271	58	425	74
Enteroviruses	181	105	262	72	344	147



Table 1 (continued)

Parameters	1988		1989		1990	
	T	NC	T	NC	T	NC
<i>Physico-chemical</i>						
pH	309	0	170	0	362	2
Colour	399	91	397	109	434	101
Mineral oils	440	5	418	6	434	8
Surface-active substances	440	122	440	108	434	87
Phenols	440	2	440	2	433	1
Transparency	293	48	308	77	391	83

T : Number of areas sampled.

NC : Number of areas over the limits.

In the 1989 season, 336 (76%) of the bathing areas were within the coliform limits. In 1990 the compliance rate was slightly higher (77%).

Salmonella and enteroviruses were regularly detected in both 1989 and 1990.

As regards the physico-chemical parameters, a waiver has been granted in certain cases for the transparency and colour parameters to allow for the geographical conditions.

Six new bathing areas were included in the monitoring programme for the 1990 season.

2. Maps

The map in the Annex shows the bathing areas with a 95% compliance rate with the mandatory values laid down for total coliforms and faecal coliforms in the Directive, i.e.:

total coliforms: 10 000/100 ml
faecal coliforms: 2 000/100 ml

Table 2 shows the values on which the maps are based.

Table 2 : Sampling of bathing areas

	Seawater	
	1989	1990
Number of districts	370	371
Number of sampling points	440	446
Number of points with inadequate sampling frequency	0	0
Number of points complying	336	345
Average sampling frequency	20.7	20.9

3. Conclusions

Bathing water quality has improved slightly since 1988. The sampling frequency has increased over the last two years.



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L-2985 Luxembourg



DENMARK
 BATHING WATER QUALITY - 1989
 COASTAL AND INTERNAL ZONES

Compliance for parameters:
 Coastal zones:
 FAECAL COLIFORMS \leq 1,000/100 ml
 Internal zones:
 TOTAL COLIFORMS \leq 10,000/100 ml
 FAECAL COLIFORMS \leq 1,000/100 ml
 based on a statistical evaluation

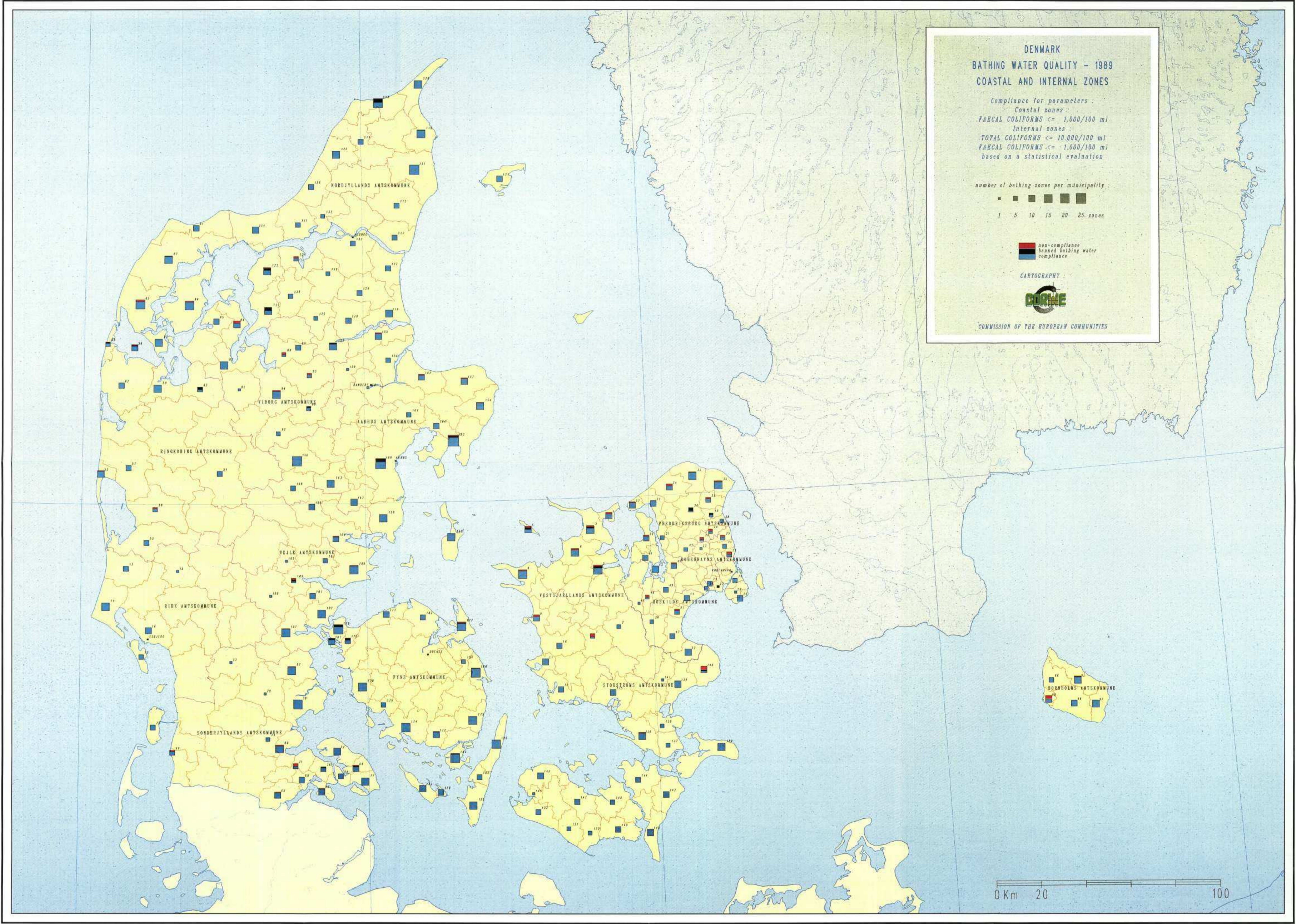
number of bathing zones per municipality:
 ■ ■ ■ ■ ■
 1 5 10 15 20 25 zones

■ non-compliance
 ■ based bathing water compliance

CARTOGRAPHY



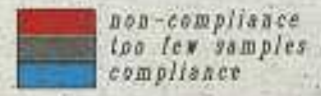
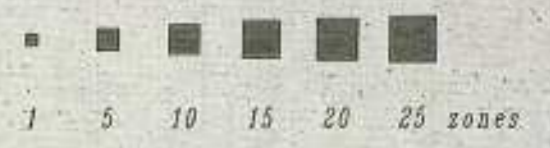
COMMISSION OF THE EUROPEAN COMMUNITIES



GERMANY
BATHING WATER QUALITY - 1989
COASTAL AND INTERNAL ZONES

Compliance for parameters:
TOTAL COLIFORMS $\leq 10,000/100\text{ m}^3$
FACCAL COLIFORMS $\leq 2,000/100\text{ m}^3$
for at least 95 % of the samples.

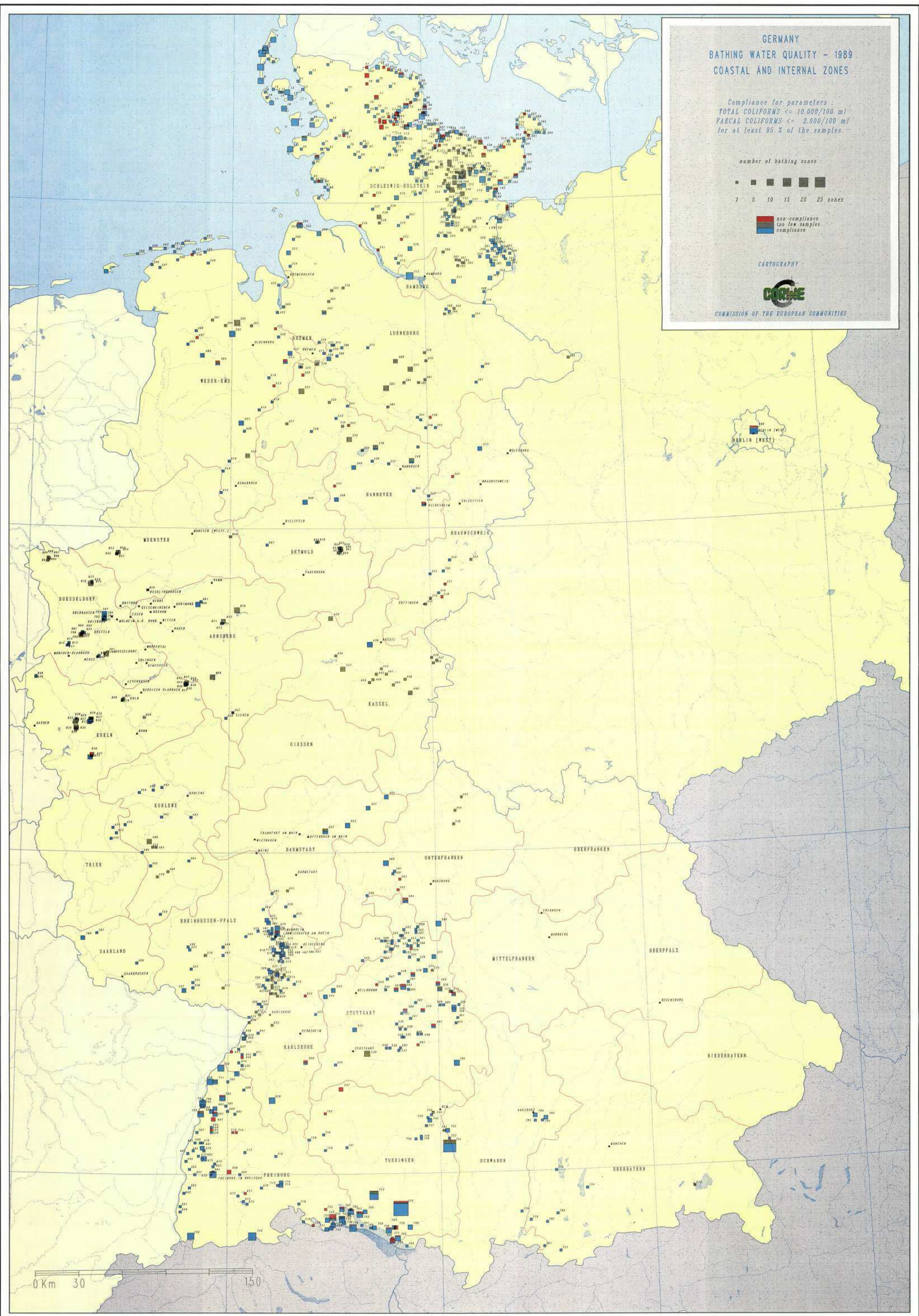
number of bathing zones:



CARTOGRAPHY:



COMMISSION OF THE EUROPEAN COMMUNITIES



GERMANY 'COASTAL-INTERNAL ZONES' - 1989

Table with 4 columns: Zone Name, Description, Coordinates, and Status. Includes regions like Schleswig-Holstein, Baden-Württemberg, and others. Status symbols include circles with 'C' for compliance and 'X' for non-compliance.

Legend: (C) Compliance, (X) Non low samples

GREECE COASTAL ZONES - 1989

RODOPH	-KORINOS - SITE 1	(1)
	-AG NIKOLAOS - SITE 2	(1)
1 FANARI	-KATERINI - SITE 1	(1)
-FANARI - SITE 3	-LITOCORON LEPTOKARIA	(1)
-FANARI - SITE 4	-LITOCORON - SITE 1	(1)
-FANARI - SITE 6	-LITOCORON - SITE 2	(1)
	-LITOCORON - SITE 3	(1)
KAVALA	-SKOTINA - SITE 1	(1)
2 BATS	-SKOTINA - SITE 2	(1)
-BATS - SITE 1	-SKOTINA - SITE 3	(1)
-BATS - SITE 2	-SKOTINA - SITE 4	(1)
-BATS - SITE 3		(1)
3 PALIO	-PANDIPELION	(1)
-PALIO - SITE 1	-PANDIPELION - SITE 1	(1)
-PALIO - SITE 2		(1)
4 N. INAKLITSA	-N. INAKLITSA - SITE 1	(1)
5 N. PERAMOS	-N. PERAMOS - SITE 1	(1)
-N. PERAMOS - SITE 2		(1)
6 THASOS	-N. MESANGALIA - SITE 1	(1)
-THASOS - SITE 1	-N. MESANGALIA - SITE 2	(1)
-THASOS - SITE 2	-N. MESANGALIA - SITE 3	(1)
7 PANAGIA	-FRANGIA - SITE 1	(1)
-STOMONI - SITE 1	-STOMONI - SITE 2	(1)
-STOMONI - SITE 2	-STOMONI - SITE 3	(1)
8 THEOLODOSS LIMENARIA	-REFAKLIMENARIA - SITE 1	(1)
-REFAKLIMENARIA - SITE 2		(1)
9 ORMOSS PRINJOU	-ORMOSS PRINJOU - SITE 1	(1)
-ORMOSS PRINJOU - SITE 2		(1)
SERRAI		
10 N. KERIOLIA	-N. KERIOLIA - SITE 1	(1)
THESSALONIKI		
11 ASPROVALTA	-ASPROVALTA - SITE 1	(1)
12 THESSALONIKI	-SKLITHRON - SITE 1	(1)
-THESSALONIKI - SITE 1	-SKLITHRON - SITE 2	(1)
13 STAVROS	-STAVROS - SITE 1	(1)
-STAVROS - SITE 2		(1)
CHALKIDIKI		
14 SARTI	-SARTI - SITE 1	(1)
15 KIROPIGI	-KIROPIGI - SITE 1	(1)
-KIROPIGI - SITE 2		(1)
-KIROPIGI - SITE 3		(1)
-KIROPIGI - SITE 4		(1)
16 PORTO KOUFFOS	-KOUFFOS - SITE 1	(1)
-PORTO CAIRAS - SITE 1	-PORTO CAIRAS - SITE 2	(1)
18 NIKITAS	-KALA NEIRA - SITE 1	(1)
-KALA NEIRA - SITE 2		(1)
19 POLIGRISOS,GETAKINI GERAKINI	-NEA ANCHALOS - SITE 1	(1)
-NEA ANCHALOS - SITE 2		(1)
20 N. FOXEA	-N. FOXEA - SITE 1	(1)
-N. FOXEA - SITE 2		(1)
21 PEFKOCHORON	-PEFKOCHORON - SITE 1	(1)
22 KALANDRA	-KALANDRA - SITE 1	(1)
-KALANDRA - SITE 2		(1)
-KALANDRA - SITE 3		(1)
-KALANDRA - SITE 4		(1)
-KALANDRA - SITE 5		(1)
23 N. FLAGIA	-N. FLAGIA - SITE 1	(1)
24 N. KALLIKRATIA	-N. KALLIKRATIA - SITE 1	(1)
THESSALONIKI		
25 EPANOMI (ORMOS)	-EPANOMI (ORMOS) - SITE 1	(1)
-EPANOMI (ORMOS) - SITE 2		(1)
26 N. MICHANIKONA	-N. MICHANIKONA - SITE 1	(1)
27 AG. TRIAS	-AG. TRIAS - SITE 1	(1)
-AG. TRIAS - SITE 2		(1)
-AG. TRIAS - SITE 3		(1)
-AG. TRIAS - SITE 4		(1)
28 VRSINA	-VRSINA - SITE 1	(1)
29 PEREA	-PEREA - SITE 1	(1)
-PEREA - SITE 2		(1)
-PEREA - SITE 3		(1)
-PEREA - SITE 4		(1)
-PEREA - SITE 5		(1)
30 N. ERIVATES	-N. ERIVATES - SITE 2	(1)
PIERIA		
31 METHONI-MAKRIGALIOS	-METHONI-MAKRIGALIOS - SITE 1	(1)
-METHONI-MAKRIGALIOS - SITE 2		(1)
32 KORINOS		

-LIMANI PASSA - SITE 3	(1)	
84 LAVREOTIKI	-AMBELAKIA - SITE 1	(1)
-AMBELAKIA - SITE 2		(1)
-AG NIKOLAOS - SITE 2		(1)
-AG NIKOLAOS - SITE 3		(1)
85 LAVREOTIKI	-LAVREOTIKI - SITE 1	(1)
-LAVREOTIKI - SITE 2		(1)
86 LAVREOTIKI	-KAMENA VOURLA - SITE 1	(1)
-KAMENA VOURLA - SITE 2		(1)
-KAMENA VOURLA - SITE 3		(1)
-KAMENA VOURLA - SITE 4		(1)
-KAMENA VOURLA - SITE 5		(1)
-KAMENA VOURLA - SITE 6		(1)
-KAMENA VOURLA - SITE 7		(1)
-KAMENA VOURLA - SITE 8		(1)
87 PALEA FORKEA	-PALEA FORKEA - SITE 1	(1)
-PALEA FORKEA - SITE 2		(1)
88 ANASSISSOS	-ANASSISSOS - SITE 1	(1)
-ANASSISSOS - SITE 2		(1)
89 SARONIDA	-SARONIDA - SITE 1	(1)
-SARONIDA - SITE 2		(1)
-SARONIDA - SITE 3		(1)
-SARONIDA - SITE 4		(1)
90 SARONIDA	-SARONIDA - SITE 1	(1)
-SARONIDA - SITE 2		(1)
-SARONIDA - SITE 3		(1)
-SARONIDA - SITE 4		(1)
91 KIROPIA	-KIROPIA - SITE 1	(1)
-KIROPIA - SITE 2		(1)
-KIROPIA - SITE 3		(1)
92 KRIPA	-KRIPA - SITE 1	(1)
-KRIPA - SITE 2		(1)
93 VARA	-CAMPING PETROS - SITE 1	(1)
-CAMPING PETROS - SITE 2		(1)
-CAMPING PETROS - SITE 3		(1)
94 VARI	-VARI - SITE 1	(1)
-VARI - SITE 2		(1)
-VARI - SITE 3		(1)
-VARI - SITE 4		(1)
-VARI - SITE 5		(1)
-VARI - SITE 6		(1)
-VARI - SITE 7		(1)
-VARI - SITE 8		(1)
-VARI - SITE 9		(1)
-VARI - SITE 10		(1)
95 VOULAGMENI	-VOULAGMENI - SITE 1	(1)
-VOULAGMENI - SITE 2		(1)
-VOULAGMENI - SITE 3		(1)
-VOULAGMENI - SITE 4		(1)
-VOULAGMENI - SITE 5		(1)
-VOULAGMENI - SITE 6		(1)
-VOULAGMENI - SITE 7		(1)
-VOULAGMENI - SITE 8		(1)
96 VOLVA	-VOLVA - SITE 1	(1)
-VOLVA - SITE 2		(1)
-VOLVA - SITE 3		(1)
-VOLVA - SITE 4		(1)
-VOLVA - SITE 5		(1)
-VOLVA - SITE 6		(1)
-VOLVA - SITE 7		(1)
-VOLVA - SITE 8		(1)
-VOLVA - SITE 9		(1)
-VOLVA - SITE 10		(1)
97 GLIADA	-DIAMANTI - SITE 1	(1)
-DIAMANTI - SITE 2		(1)
-DIAMANTI - SITE 3		(1)
-DIAMANTI - SITE 4		(1)
98 ELUNIKO	-AG. KOSMAS - SITE 1	(1)
-AG. KOSMAS - SITE 2		(1)
-AG. KOSMAS - SITE 3		(1)
99 P. PALIRO	-KALAMAKON - SITE 1	(1)
-KALAMAKON - SITE 2		(1)
-KALAMAKON - SITE 3		(1)
-KALAMAKON - SITE 4		(1)
-KALAMAKON - SITE 5		(1)
100 ALMOS	-ALMOS EOT - SITE 1	(1)
-ALMOS EOT - SITE 2		(1)
-ALMOS EOT - SITE 3		(1)
101 PREASA	-BOTSAKALIA - SITE 1	(1)
-BOTSAKALIA - SITE 2		(1)
-BOTSAKALIA - SITE 3		(1)
-BOTSAKALIA - SITE 4		(1)
-BOTSAKALIA - SITE 5		(1)
102 ELIFERNA	-ELIFERNA - SITE 1	(1)
-ELIFERNA - SITE 2		(1)
-ELIFERNA - SITE 3		(1)
103 NEA PERAMOS	-NEA PERAMOS - SITE 1	(1)
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-NEA PERAMOS - SITE 3		(1)
-NEA PERAMOS - SITE 4		(1)
-NEA PERAMOS - SITE 5		(1)
104 NEA PERAMOS	-NEA PERAMOS - SITE 1	(1)
-NEA PERAMOS - SITE 2		(1)
-NEA PERAMOS - SITE 3		(1)
-NEA PERAMOS - SITE 4		(1)
-NEA PERAMOS - SITE 5		(1)
105 SALAMINA	-SALAMINA - SITE 1	(1)
-SALAMINA - SITE 2		(1)
106 AMBELAKIA SALAMINA	-AMBELAKIA - SITE 1	(1)

131 ZAKANTHOS	-ZAKANTHOS - SITE 1	(1)
-ZAKANTHOS - SITE 2		(1)
-ZAKANTHOS - SITE 3		(1)
-ZAKANTHOS - SITE 4		(1)
-ZAKANTHOS - SITE 5		(1)
132 LAGANAS	-LAGANAS - SITE 1	(1)
-LAGANAS - SITE 2		(1)
-LAGANAS - SITE 3		(1)
AHIA		
133 ARAIOS	-ARAIOS - SITE 1	(1)
-ARAIOS - SITE 2		(1)
134 KATO ACHARIA	-KATO ACHARIA - SITE 1	(1)
135 VIVACHNEIKA	-KALAMITIS PANTOKRATOR - SITE 1	(1)
-KALAMITIS PANTOKRATOR - SITE 2		(1)
-KALAMITIS PANTOKRATOR - SITE 3		(1)
136 RION	-RION - SITE 1	(1)
-RION - SITE 2		(1)
-RION - SITE 3		(1)
-RION - SITE 4		(1)
137 EGION	-EGION - SITE 1	(1)
-EGION - SITE 2		(1)
138 ARKA-KRATAS	-ARKA-KRATAS - SITE 1	(1)
KORINTHIA		
139 XILOKASTRON	-XILOKASTRON - SITE 1	(1)
-XILOKASTRON - SITE 2		(1)
-XILOKASTRON - SITE 3		(1)
140 KIATON	-KIATON - SITE 1	(1)
-KIATON - SITE 2		(1)
141 VICHATION	-VICHATION - SITE 1	(1)
142 IERAKION	-IERAKION - SITE 1	(1)
-IERAKION - SITE 2		(1)
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-IERAKION - SITE 4		(1)
-IERAKION - SITE 5		(1)
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-IERAKION - SITE 7		(1)
143 EMISION	-EMISION - SITE 1	(1)
144 VILA	-VILA - SITE 1	(1)
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-VILA - SITE 104		(1)
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-VILA - SITE 131		(1)
-VILA - SITE 132		(1)
-VILA - SITE 133		(1)
-VILA - SITE 134		(1)
-VILA - SITE 135		(1)
-VILA - SITE 136		(1)
-VILA - SITE 137		(1)
-VILA - SITE 138		(1)
-VILA - SITE 139		(1)
-VILA - SITE 140		(1)
-VILA - SITE 141		(1)
-VILA - SITE 142		

SPAIN
BATHING WATER QUALITY - 1989
COASTAL AND INTERNAL ZONES

Compliance for parameters:
TOTAL COLIFORMS $\leq 10,000/100\text{ ml}$
FAECAL COLIFORMS $\leq 2,000/100\text{ ml}$
for at least 95 % of the samples.

number of bathing zones per municipality



non-compliance
too few samples
compliance



COMMISSION OF THE EUROPEAN COMMUNITIES



SPAIN 'COASTAL ZONES' - 1989

Table listing coastal zones in Galicia, including locations like LA CORUÑA, PONTEVEDRA, and LA CAPIA, with their respective coordinates and status.

Table listing coastal zones in Galicia, including locations like LA CORUÑA, PONTEVEDRA, and LA CAPIA, with their respective coordinates and status.

Table listing coastal zones in Galicia, including locations like LA CORUÑA, PONTEVEDRA, and LA CAPIA, with their respective coordinates and status.

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Table listing coastal zones in Galicia, including locations like LA CORUÑA, PONTEVEDRA, and LA CAPIA, with their respective coordinates and status.

Table listing coastal zones in Galicia, including locations like LA CORUÑA, PONTEVEDRA, and LA CAPIA, with their respective coordinates and status.

Legend for table symbols: () Complete, () Non complete, () Too low samples.

SPAIN 'INTERNAL ZONES' - 1989

Table listing internal zones in Spain, including locations like LA GUARDA, LA CORUÑA, and LA MANCHA, with their respective coordinates and status.

Table listing internal zones in Spain, including locations like LA GUARDA, LA CORUÑA, and LA MANCHA, with their respective coordinates and status.

Table listing internal zones in Spain, including locations like LA GUARDA, LA CORUÑA, and LA MANCHA, with their respective coordinates and status.

Table listing internal zones in Spain, including locations like LA GUARDA, LA CORUÑA, and LA MANCHA, with their respective coordinates and status.

Table listing internal zones in Spain, including locations like LA GUARDA, LA CORUÑA, and LA MANCHA, with their respective coordinates and status.



FRANCE
BATHING WATER QUALITY - 1989
COASTAL ZONES

Compliance for parameters:
TOTAL COLIFORMS <= 10,000/100 ml
FECAL COLIFORMS <= 2,000/100 ml
for at least 95 % of the samples.

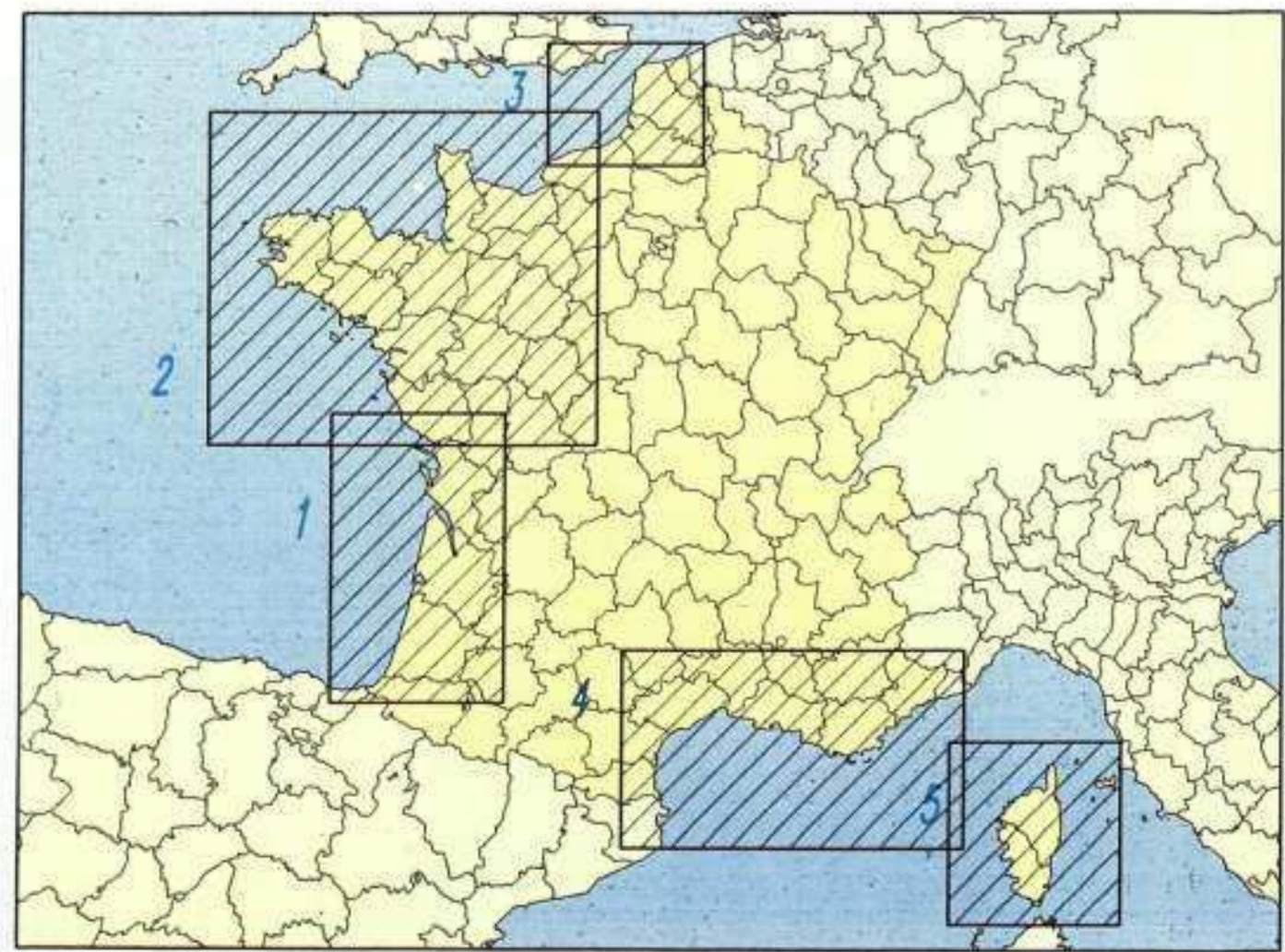
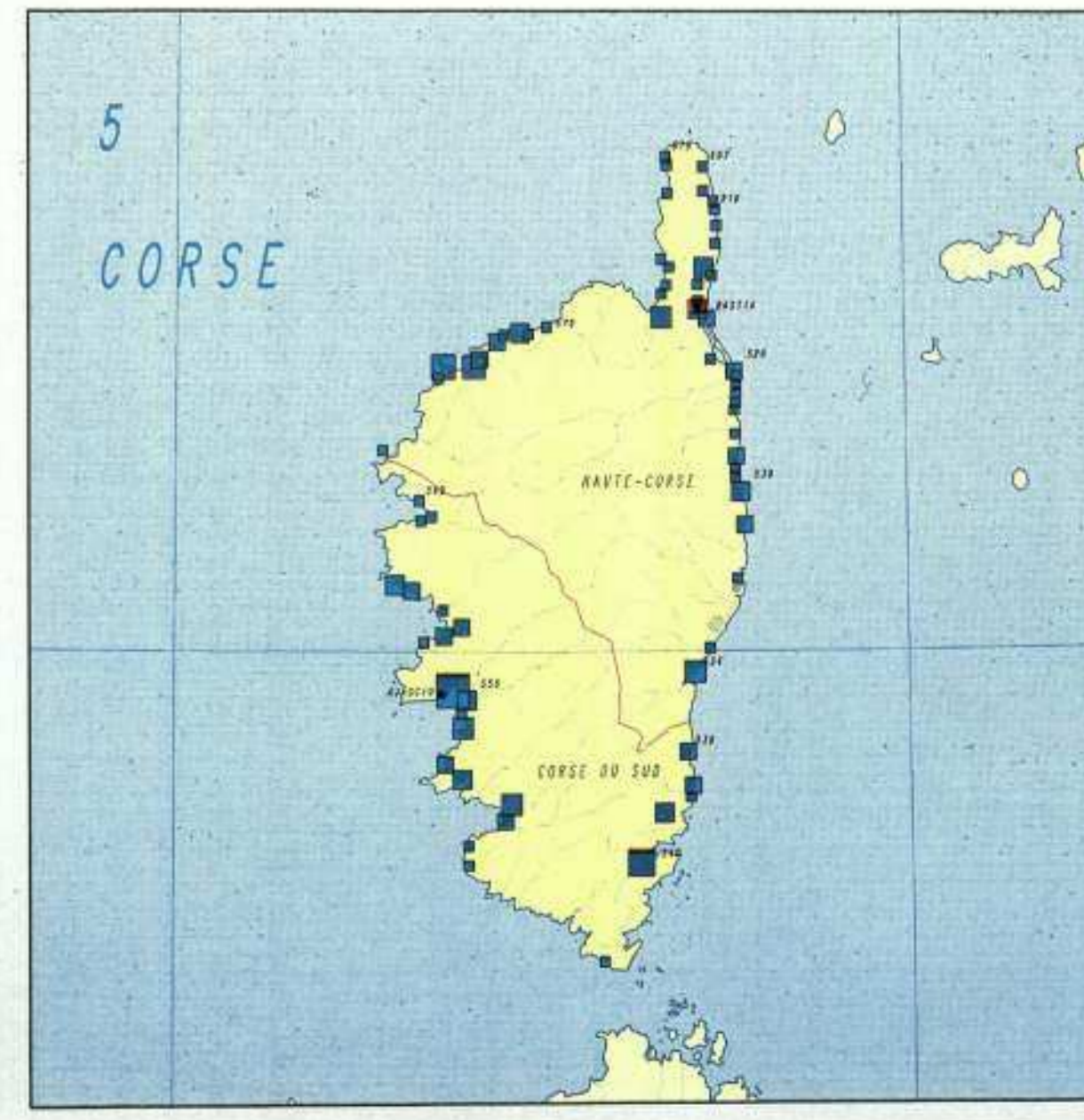
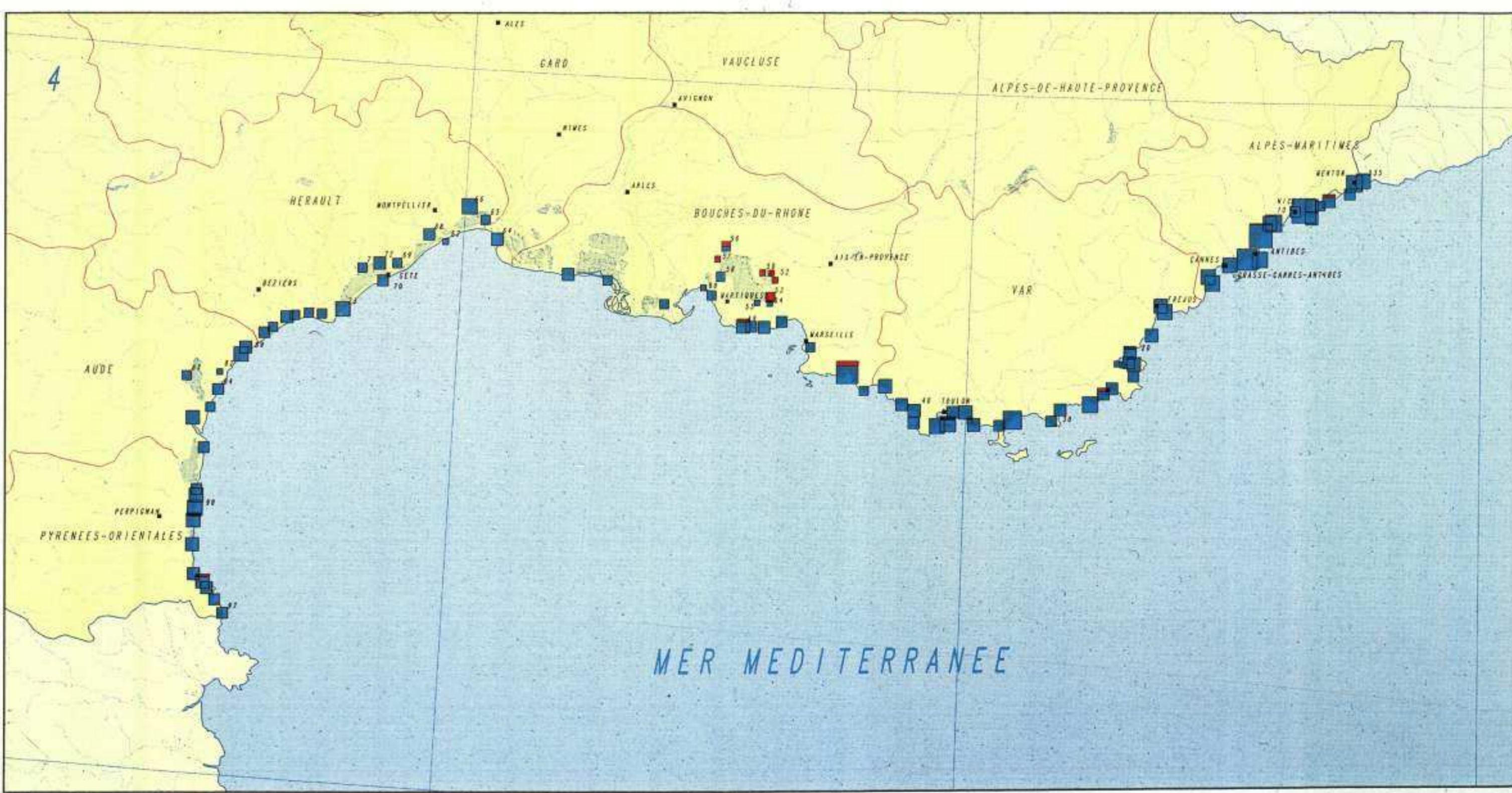
number of bathing zones per municipality

■	■	■	■	■	■
1	5	10	15	20	25 zones

■ non-compliance
■ too few samples
■ compliance

CARTOGRAPHY
DIRNE

COMMISSION OF THE EUROPEAN COMMUNITIES



0 Km 40 200

FRANCE 'COASTAL ZONES' 1989

Table listing coastal zones in France, including categories like ALPES MARITIMES, 13 BOUCHES DU RHONE, 24 HAUTE SAONE, etc., with specific zone names and their locations.

Table listing coastal zones in France, including categories like 41 SAINT CYR SUR MER, 34 HERAULT, 66 PYRENEES ORIENTALES, etc., with specific zone names and their locations.

Table listing coastal zones in France, including categories like 109 ONDES, 128 LE VERDON SUR MER, 163 MONTAIGNE, etc., with specific zone names and their locations.

Table listing coastal zones in France, including categories like 192 NORDPIERRE, 210 BILLY, 236 PLOUARNEC, etc., with specific zone names and their locations.

Table listing coastal zones in France, including categories like 240 BILLY, 242 GUEBEL, 249 GUEBEL, etc., with specific zone names and their locations.

Table listing coastal zones in France, including categories like 250 SAINT PABU, 259 TREVIGNAN, 266 PLOUARNEL, etc., with specific zone names and their locations.

Legend for compliance status: Compliance (circle with checkmark), Non-compliance (circle with X), Top ten samples (circle with star).



FRANCE
BATHING WATER QUALITY - 1989
INTERNAL ZONES

*Compliance for parameters :
TOTAL COLIFORMS <= 10.000/100 ml
FABCAL COLIFORMS <= 2.000/100 ml
for at least 95 % of the samples.*

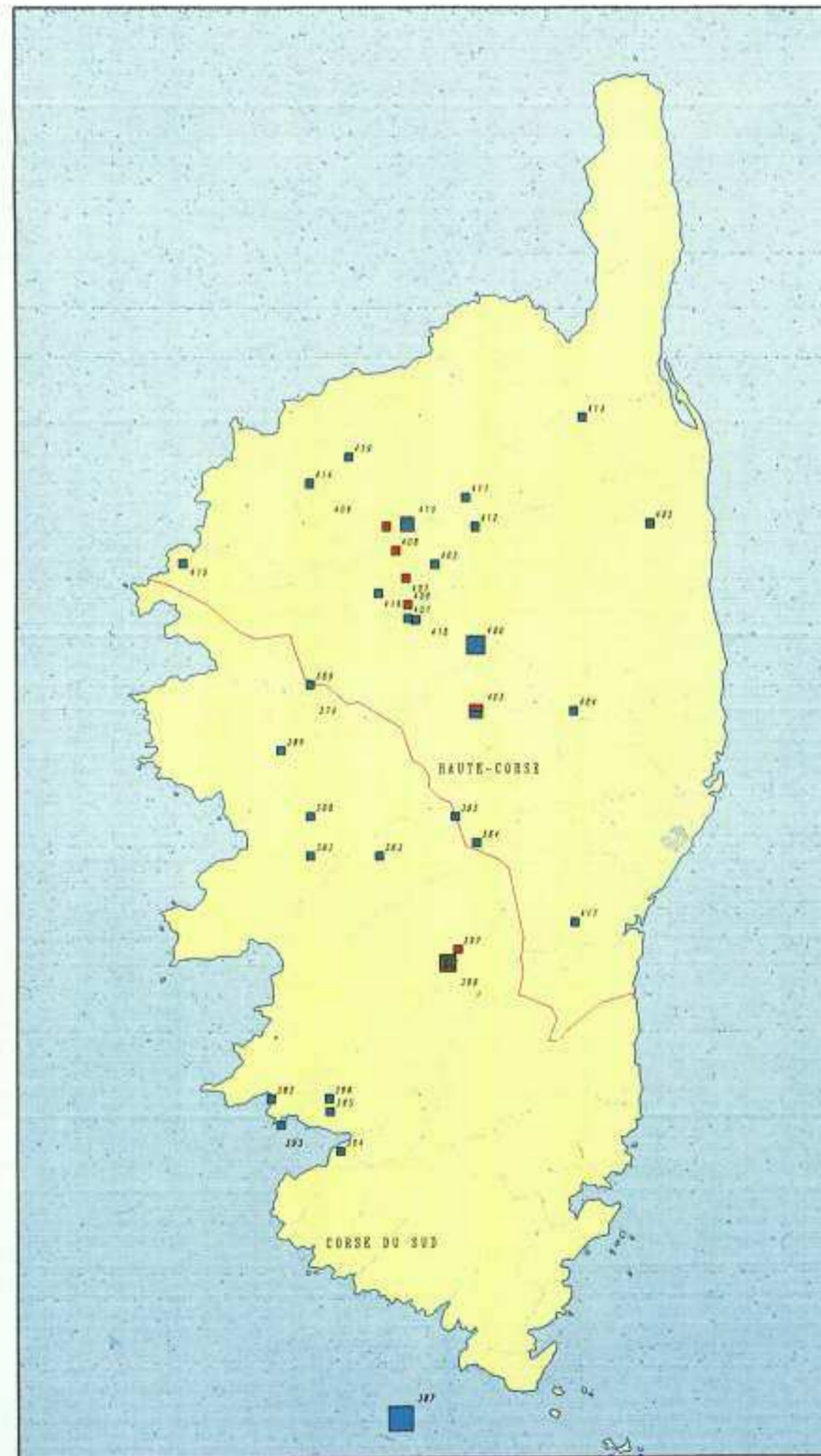
number of bathing zones per municipality :

1 5 10 15 20 25 zones

non-compliance
compliance

CARTOGRAPHY :

COMMISSION OF THE EUROPEAN COMMUNITIES



0 Km 50 250

FRANCE 'INTERNAL ZONES' - 1989

Table listing internal zones in France, including names like '11 HUYET', '12 HUYET', '13 HUYET', etc., and their corresponding locations and administrative details.

Table listing internal zones in France, including names like '1201', '1202', '1203', etc., and their corresponding locations and administrative details.

Table listing internal zones in France, including names like '1204', '1205', '1206', etc., and their corresponding locations and administrative details.

Table listing internal zones in France, including names like '1207', '1208', '1209', etc., and their corresponding locations and administrative details.

Table listing internal zones in France, including names like '1210', '1211', '1212', etc., and their corresponding locations and administrative details.

Table listing internal zones in France, including names like '1213', '1214', '1215', etc., and their corresponding locations and administrative details.

Table listing internal zones in France, including names like '1216', '1217', '1218', etc., and their corresponding locations and administrative details.

Table listing internal zones in France, including names like '1219', '1220', '1221', etc., and their corresponding locations and administrative details.

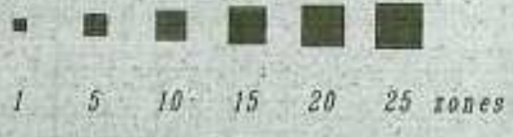
Table listing internal zones in France, including names like '1222', '1223', '1224', etc., and their corresponding locations and administrative details.

Table listing internal zones in France, including names like '1225', '1226', '1227', etc., and their corresponding locations and administrative details.

UNITED KINGDOM & IRELAND
BATHING WATER QUALITY - 1989
COASTAL ZONES

Compliance for parameters:
UNITED KINGDOM
 TOTAL COLIFORMS <= 10,000/100 ml
 FAECAL COLIFORMS <= 2,000/100 ml
 for at least 95 % of the samples.
IRELAND
 TOTAL COLIFORMS <= 5,000/100 ml
 FAECAL COLIFORMS <= 1,000/100 ml
 for at least 80 % of the samples.

number of bathing zones:

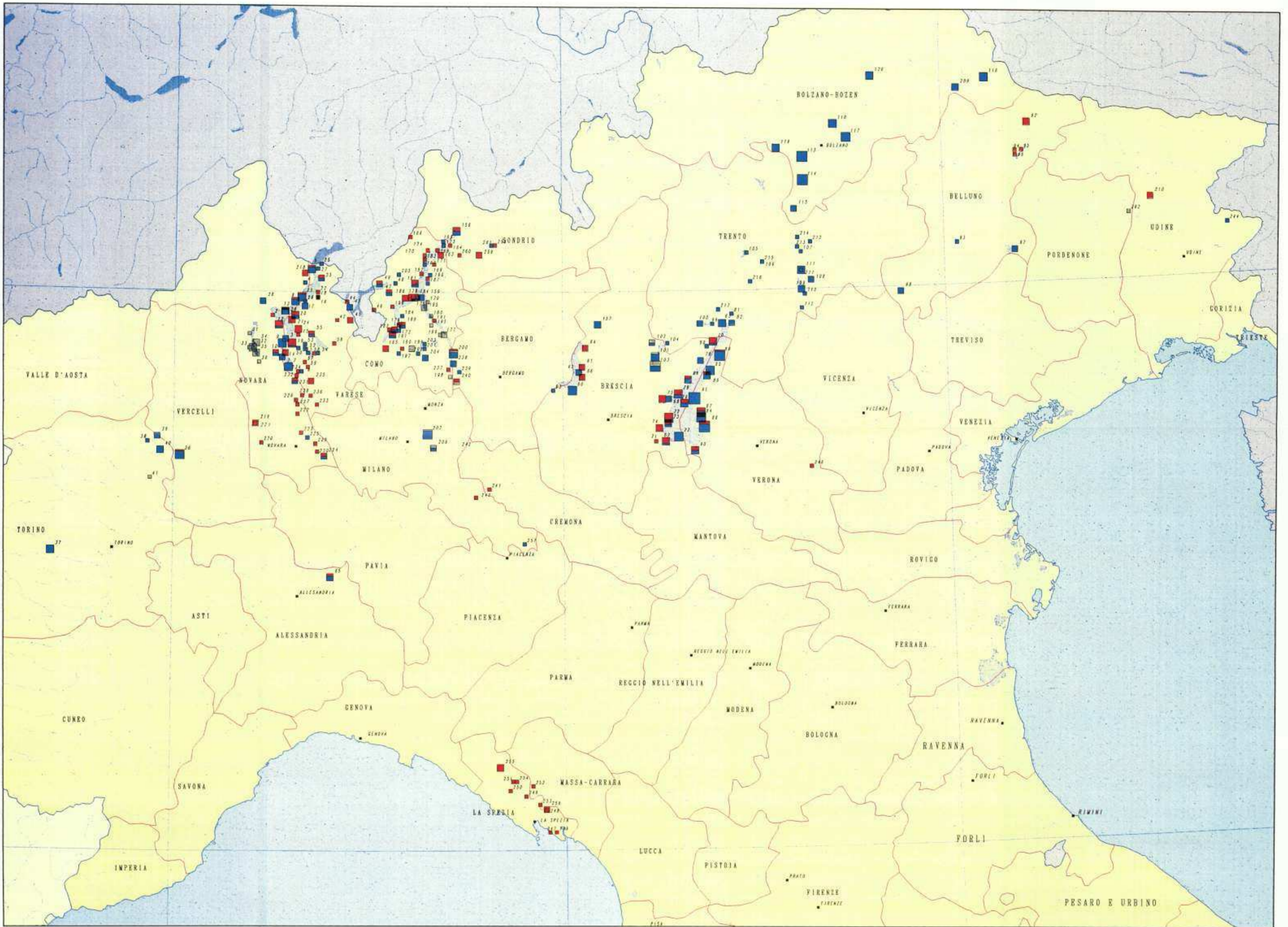


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ITALY
BATHING WATER QUALITY - 1989
INTERNAL ZONES

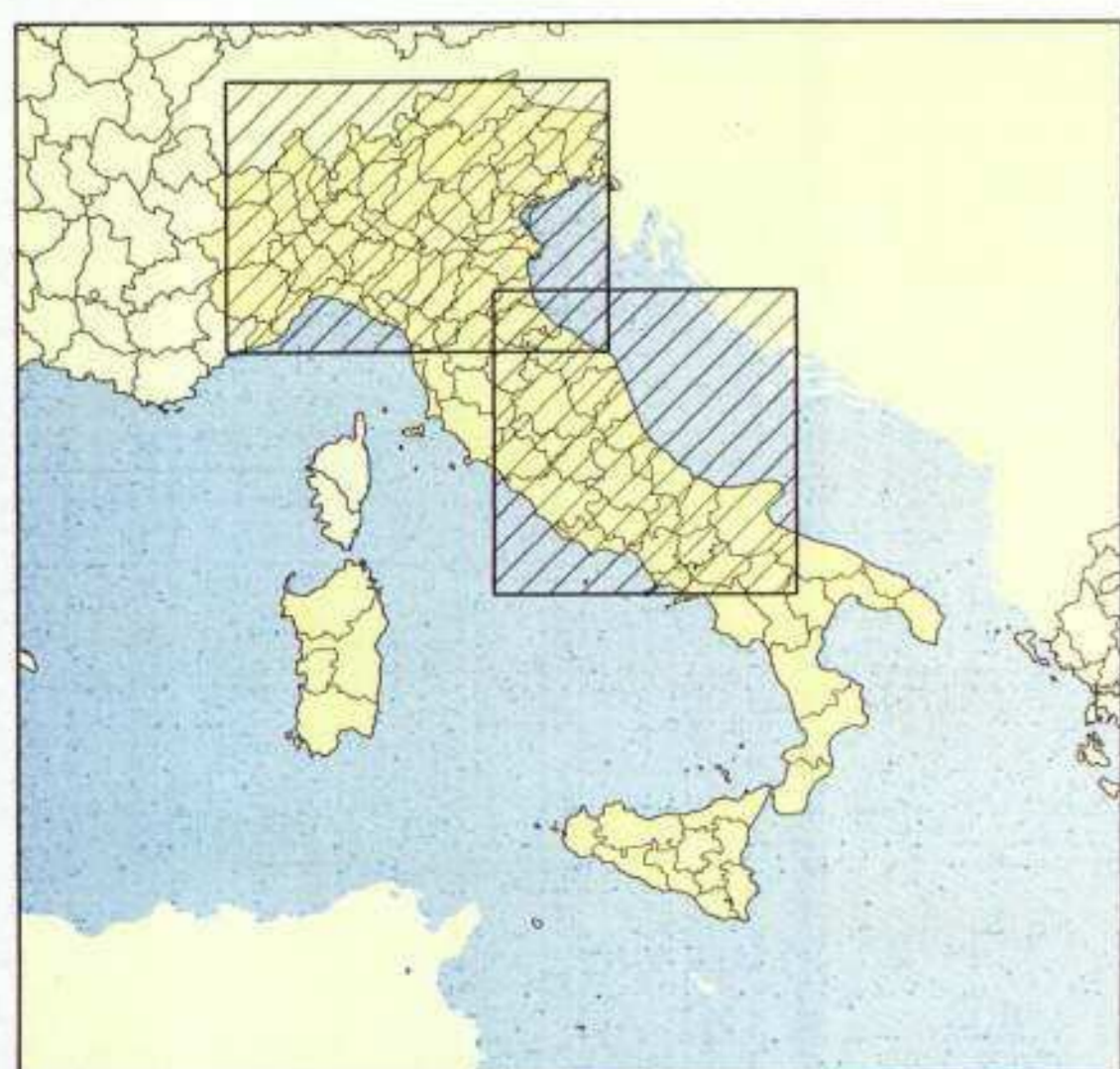
Compliance for parameters:
TOTAL COLIFORMS \leq 2.000/100 ml
FACCAL COLIFORMS \leq 100/100 ml
for at least 80 % of the samples.

number of bathing zones:

■	■	■	■	■	■
1	5	10	15	20	25 zones

■ non-compliance
■ compliance

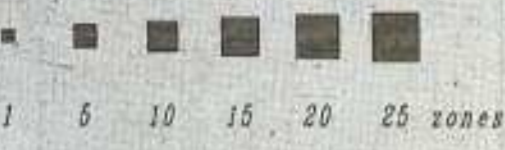
CARTOGRAPHY:
CGME
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ITALY
BATHING WATER QUALITY - 1989
COASTAL ZONES

Compliance for parameters A:
TOTAL COLIFORMS $\leq 2,000/100\text{ ml}$
FAECAL COLIFORMS $\leq 100/100\text{ ml}$
for at least 80 % of the samples.

number of bathing zones:

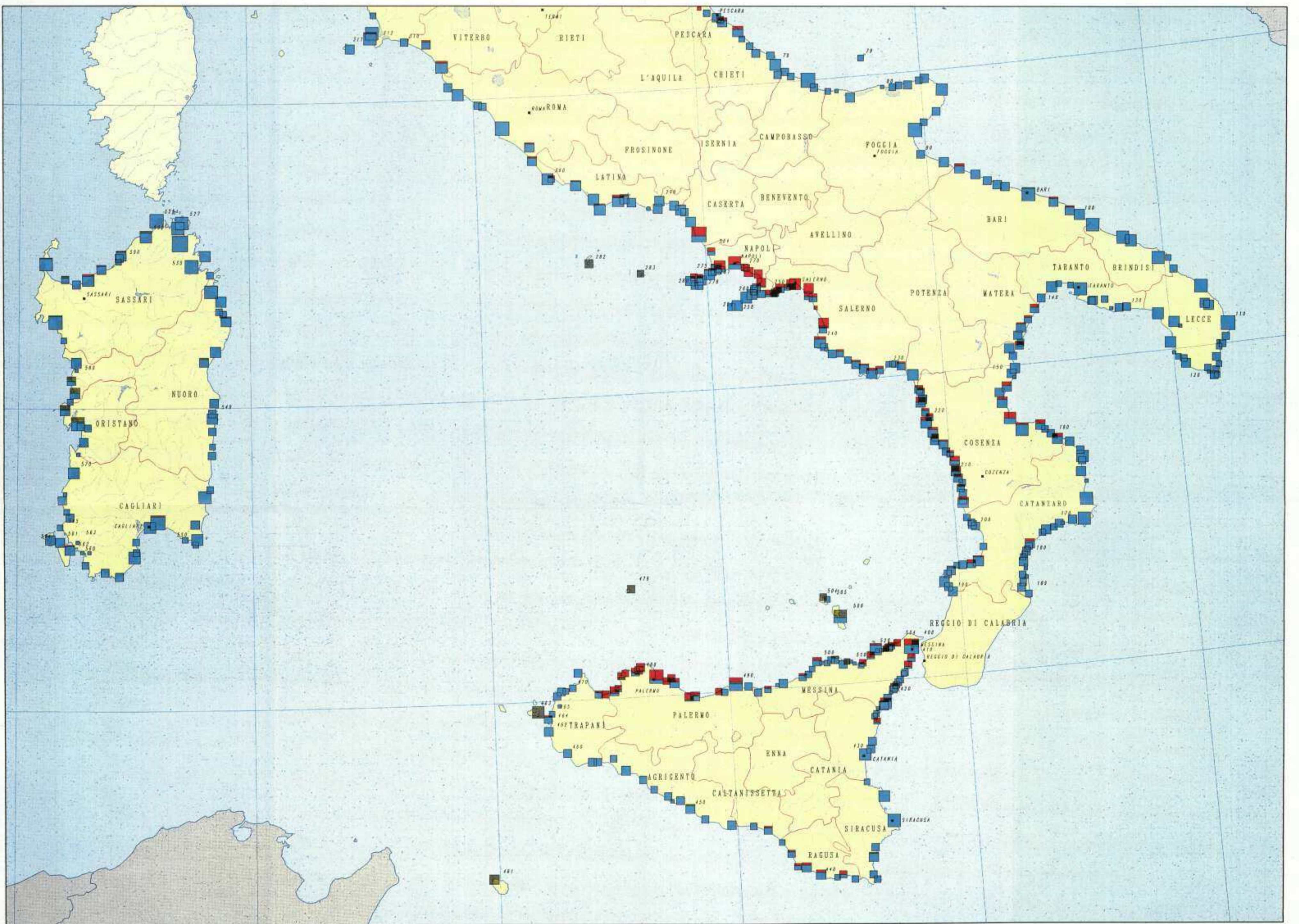


■ non-compliance
■ compliance

CARTOGRAPHY



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ITALY COASTAL ZONES 1989

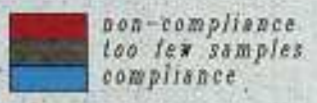
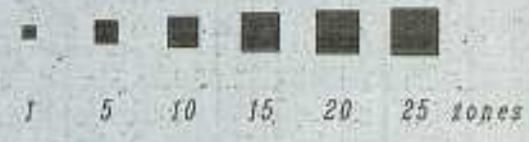
Main table containing coastal zone data for various Italian regions, including columns for region names, zone numbers, and descriptions.

Compartire
Non comparire
Too few samples

PORTUGAL
BATHING WATER QUALITY - 1990
COASTAL ZONES

Compliance for parameters:
TOTAL COLIFORMS \leq 10,000/100 ml
FABCAL COLIFORMS \leq 2,000/100 ml
for at least 95 % of the samples.

number of bathing zones per municipality:



CARTOGRAPHY:



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PORTUGAL 'COASTAL ZONES' - 1990

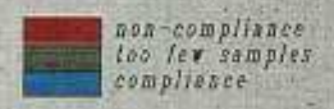
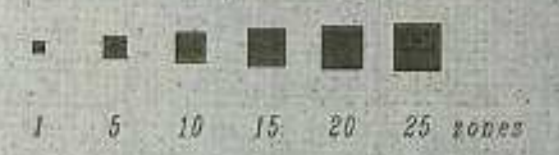
NORTE			
1 CAMINHA	— MEDA/SUPER TUBOS	○	— TRES BRACOS
— ANÇOSA	— S. BEIRNUNHO	○	— ROCHA
— CAMINHA	25 TORRES VEDRAS	○	— PRAINHA
— MOLEDO	— FICCA STA. CRUZ	○	— VAI
	— SANTA CRUZ	○	44 SILVES
	— SANTA NTA	○	— ARMADAO DE PERA
2 VIANA DO CASTELO			45 TAVIRA
— AFE	LISBOA VALE DO TEJO		— BARRA
— AMOROSA			— CABANAS/MAR
— CABELO	26 CASCAIS	●	46 VILA DO BISPO
— CARRECO	— CARCAVELOS	●	— BARRA
— CASTELO DE NEVA	— ESTORIL/SOL	●	— INGRINA
— NORTE	— QUINHO	○	— MARETA
3 ESPOSENDE	— PAREDE	●	— MARTINHAL
— ANTAS	— S. JACO DO ESTORIL	●	— SALEMIA
— APALIA	— S. PEDRO DO ESTORIL	●	47 VILA REAL ST. ANTONIO
— CEPRES/MARINHAS	— TAMARIZ	●	— MANTA ROTA
— ESPOSENDE(SUAVE MARI)	27 OERAS	●	— MONTE GORDO
— AFE	— SANTO AMARO	●	— STO. ANTONIO/PONTA DA AREIA
— MARI.S. BARTOLOMEU	— TORRE	●	
4 ESPANHO	28 SINTRA	○	ACORES
— ESPANHO	— ADRADA	○	48 STA. CRUZ DA GRACIOSA
— PARAMOS	— GRANDE	○	— BARRA
— SILVALDE	— MAGAS	○	— CAMAPACHO
5 MATOSINHOS	— MAGOITO	○	— PRAINHA
— ANGERIA	— PEGUESA	○	— STA. CRUZ
— LECA DA PALMEIRA	29 ALMADA	○	— PRAINHA DA BAA DE VICENTE DIAS
— MARRECO	— FR. URBANA NORTE (SABATROZ)	○	49 CALHETA
6 CASTELO DO QUELJO	— FR. PRAAS FONTE DA TELHA	○	50 VILAS
— GONCALVES	— FR. PRAAS SUL (INFANTE)	○	— PISCINA DAS VELAS
7 FOVDA DE VARZIM	— FR. PRAAS NORTE (MATA)	○	51 ANGRA DO HEROSIMO
— LAGOA	— FR. PRAAS CENTRO (REI)	○	— CHICO BRIBRAS
— REDONDA	— NOVA	○	— NEGRITO
8 VILA DO CONDE	30 SESIMBRA	●	— SALGA
— ANVOPE	— CALIFORNIA	●	— SA/GUERROS
— AZUL	— MONHO DE BAIXO	○	— SILVEIRA
— CAXANAS	31 SETUBAL	●	52 PRAIA DA VITORIA
— CONGREIRAS	— FIGUEIRINHA	●	— PISCINA DOS BISCONTOS
— LAFRUGE	— GALAPÓS	●	— GRANDE
— MINELLO	— PORTINHO DA ARRABIDA	●	— PORTO MARTINS
— TURISMO (BANHOS)			— PRAINHA
— VILA CHA	ALENTEJO		— SARGENTOS
9 VILA NOVA DE GAMA	32 GRANDOLA	○	53 CORVO
— AGUDA	— BICO DA LULAS	○	— PRAIA DO
— GRANJA	— CARVALHAL	○	— AREIA
— LAVADORES	— COMPORTA	○	54 HORTA
— MADALENA	— P. CAMPANAS COSTA DA GALE	○	— ALMOARRÉ
— MIRAMAR	— TRCA GALE (COSTA DA GALE)	○	— CONCECAO
— SALGUEROS	— TRCA MAR (PONTA DO ADCKE)	○	— FAIA
— VALADARES	33 OESIMBRA	○	— PORTO PIM
	— ALMOGRAVE	○	— VARADOURO
	— V.N. MILFONTES	○	55 LAJES DAS FLORES
	— ZAMBUEIRA DO MAR	●	— FAJA GRANDE
CENTRO	34 SINES	○	56 STA. CRUZ DAS FLORES
10 ELHAYO	— PORTO COVO	○	— PISCINA DE STA. CRUZ DAS FLORES
— BARRA	— PRAIA DA ILHA	○	57 LAJES DO PICO
— COSTA NOVA			58 MADALENA
11 MARTOSA	ALGARVE		— PISCINA DA MADALENA
— TORREIRA	35 ALBUFERA	○	59 S. ROQUE DO PICO
12 OVARI	— AURAMAR	○	— PISCINA DE S. ROQUE
— COFETEACA	— FALESIA/ACOTEAS	○	60 VILA DO PORTO
— ESPORZ	— FALESIA/VILAMOURA	○	— ROMOSA
— TURMOURO	— GALE	●	— S. LORENÇO
13 VAGOS	— MARIA LUISA	●	— PORTO DE VILA DO PORTO
— VAGUEIRA	— OLHOS D'AGUA	●	61 LAGOS
14 CANTANHEDE	— OURA	○	— PISCINA DA LAGOA
— TOCHA	— STA. EULALIA	○	62 FONTE DE LAGOA
15 FIGUEIRA DA FOZ	— S. RAFAEL	○	— MOSTEROS
— BUARCOS	— TUNEL	○	— POPULO GRANDE
— CARBELO	36 ALJEZUR	○	— POPULO PEQUENO
— COSTA DE LAVOS	— MONTE CLERICO	○	63 RIBEIRA GRANDE
— COVA GALE	37 CASTRO MARIM	○	— RIBEIRA QUENTE
— FIGUEIRA DA FOZ	— ALGODAL/TURA	○	64 RIBEIRA GRANDE
— MURTINEIRA	— PRAIA VERDE	○	— PORTO FORMOSO
— OLHAOS	— RIETUR	○	65 VILA FRANCA DO CAMPO
16 MIRRA	38 FARO	○	— AGUA D'ALTO
— MIRRA	— FAROMAR	○	— CORPO SANTO
— PEDROGÃO	— FAROLMAR	○	— VILHA DA VINHA DA AREI
18 MARINHA GRANDE	39 LAGOA	●	MADEIRA
— S. PEDRO DE MOEL	— CARVOEIRO	●	66 CALHETA
— VIEIRA	— FERREAGUDO/PRAIA GRANDE	○	— CALHETA
	— CENTEANES	○	67 FANCIAL
	— MARINHA	○	— LIDO/COMPLEXO BALNEAR
LISBOA VALE DO TEJO	— SENHORA DA ROCHA	○	68 PORTO MONZ
19 ALCOBACA	40 LAGOS	○	— RIBEIRA BRANVA
— PAREDES DE VITORIA	— D. ANA	○	— RIBEIRA BRANVA
— S. MARTINHO DO PORTO	— LUC	○	70 PORTO SANTO
20 CALDAS DA RAINHA	— PORTO DE MOS	○	— PORTO SANTO
— TIZ DO AREHOMMAR	— S. ROQUE/MEIA PRAIA	○	
21 LOURINHA	41 LOULE	○	
— AREIA BRANCA	— GARRAD	○	
— BALEIA	— QUARTEIRA	○	
22 MARIA	— QUINTA DO LAGO	○	
— S. JULIAO	— VALE DE LOBO	○	
23 NAZARE	— VILAMOURA	○	
— NAZARÉ	42 OLHAG	○	
— SALGADO	— ARMONUMAR	○	
24 PENICHE	— ARMONAVIA	○	
— BALSAL	— FUSTALMAR	○	
— CONSOLAÇÃO	43 PORTIMAO	○	
— COVA DA ALFARROBA	— ALVOR	○	
	— BARRANCO DAS CANAS	○	
	— TRES CASTELOS	○	

○ Compliance
● Non compliance

UNITED KINGDOM
BATHING WATER QUALITY - 1990
COASTAL ZONES

Compliance for parameters:
TOTAL COLIFORMS $\leq 10,000/100\text{ ml}$
FAECAL COLIFORMS $\leq 2,000/100\text{ ml}$
for at least 95% of the samples.

number of bathing zones:



CARTOGRAPHY:



COMMISSION OF THE EUROPEAN COMMUNITIES



UNITED KINGDOM COSTAL ZONES - 1990

SCOTLAND	ROBIN HOODS BAY
1 NARIN	1 SCARBOROUGH
2 CULLEN	2 SCARBOROUGH NORTH BAY
3 FRASERBURGH	3 SCARBOROUGH SOUTH BAY
4 ABERDEEN	4 CAYTON BAY
5 MONTROSE	5 FLEAY
6 ARBROATH	6 FRASERBURGH
7 CARNOUTIE	7 HERRIN BAY
8 ST ANDREW'S	8 HERRIN BAY
9 PETFYCUR	9 HERRIN BAY
10 ABERDUR SILVERSANDS	10 HERRIN BAY
11 GULLANE	11 HERRIN BAY
12 YELLOWCRAIGS	12 HERRIN BAY
13 BERTH	13 HERRIN BAY
14 DUNBAR BELHAVEN	14 HERRIN BAY
15 PEASE BAY	15 HERRIN BAY
16 SPRITALL	16 HERRIN BAY
17 BAMBURGH CASTLE	17 HERRIN BAY
18 SEAHAM	18 HERRIN BAY
19 BEANDHILL	19 HERRIN BAY
20 LOW NEWTON	20 HERRIN BAY
21 ALMOUTH	21 HERRIN BAY
22 WARKWORTH	22 HERRIN BAY
23 DURRODGE BAY	23 HERRIN BAY
24 NEWBIGGIN NORTH	24 HERRIN BAY
25 BLYTH	25 HERRIN BAY
26 SEATON SLUICE	26 HERRIN BAY
27 WHITLEY BAY	27 HERRIN BAY
28 TYNEMOUTH	28 HERRIN BAY
29 SOUTH SHELDS	29 HERRIN BAY
30 MARSDEN	30 HERRIN BAY
31 WHITBURN	31 HERRIN BAY
32 SEAHAM	32 HERRIN BAY
33 CHIMDON	33 HERRIN BAY
34 SEATON CAREW	34 HERRIN BAY
35 RECCAR	35 HERRIN BAY
36 SALTBRUN	36 HERRIN BAY
37 HUNTINGTON	37 HERRIN BAY
38 SANDERSON	38 HERRIN BAY
39 WHITBY	39 HERRIN BAY
40 ROBIN HOODS BAY	40 HERRIN BAY

SOUTHERN	WESSEX
83 LEYSIDOWN	148 CHRISTCHURCH
84 WEST BEACH	149 BOURNEMOUTH
85 HERRIN BAY	150 POOLE
86 HERRIN BAY	151 POOLE HARBOUR
87 ST MILBERT'S BAY	152 SHELL BAY NORTH
88 MARGATE	153 STURLEIGH
89 JESS BAY	154 SWANAGE
90 BRIDGESTARS	155 KIMMERIDGE BAY
91 RAMSGATE	156 LLAUWORTH COVE
92 SANDWICH BAY	157 DURBLE DOOR
93 DEAL CASTLE	158 BRISTOL BAY
94 ST MARGARET'S BAY	159 SOUTHWICK
95 FOLKESTONE	160 CHURCH ORE COVE
96 SANDGATE	161 WORTHING
97 HYTHE	162 PORTLAND HARBOUR
98 DITCHHEAD	163 WEST BAY (WEST)
99 SANDHURST	164 EYEMOUTH
100 LITTLESTONE	165 SEATON
101 CAMBER	166 SEATON
102 SANDHURST	167 LYME REGIS
103 SANDHURST	168 CHARMOUTH
104 SANDHURST	169 SEATON
105 SANDHURST	170 SEAMOUTH
106 SANDHURST	171 LARHAM BAY
107 SANDHURST	172 BUDLEIGH SALTERN
108 SANDHURST	173 SANDY BAY
109 SANDHURST	174 SANDY BAY
110 SANDHURST	175 SANDY BAY
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128 SANDHURST	193 SANDY BAY
129 SANDHURST	194 SANDY BAY
130 SANDHURST	195 SANDY BAY

WEST	WILTSHIRE
196 TORRE ABBEY	201 BISHOPSTON
197 HOLLISCOMBE	202 BISHOPSTON
198 PADGTON	203 BISHOPSTON
199 FAINTON PAIGTON SANDS	204 BISHOPSTON
200 GODDRINGTON	205 BISHOPSTON
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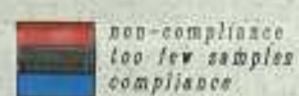
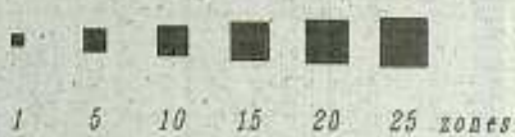
WILTSHIRE	WILTSHIRE
307 BORTH	352 SKINBURNESS
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SCOTLAND	SCOTLAND
352 SKINBURNESS	352 SKINBURNESS
353 SANDYHILLS	353 SANDYHILLS
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374 SANDYHILLS	374 SANDYHILLS

**BELGIUM, NETHERLANDS & LUXEMBOURG
BATHING WATER QUALITY - 1990
COASTAL AND INTERNAL ZONES**

Compliance for parameters:
BELGIUM and LUXEMBOURG:
 TOTAL COLIFORMS \leq 10.000/100 ml
 FAECAL COLIFORMS \leq 2.000/100 ml
 for at least 95 % of the samples.
THE NETHERLANDS:
 FAECAL COLIFORMS \leq 300/100 ml
 on the basis of a calculated median value.

number of bathing zones:



CARTOGRAPHY



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BELGIUM 'COASTAL ZONES' - 1990

FLANDRE OCCIDENTALE	5 MIDDELKERKE	—CENTRUM	()
—ST. LAURENS	()	—WESTENDE BAD	()
—BRIEFDEKERS	()	—CROCOZOLE	()
—CANADESENPLEIN	()	—BAD	()
1 DE PANNE	6 OOSTERDE	10 BLANENBERGE	()
—BROEFDEKERS	()	—CASINO	()
—DE HARENBEEK	()	—MARBRIKKE	()
2 KOKKLE	—THERMAL	()	
—ST. DESBARD 03	()	11 ZEEBRUGGE	()
—ST. DESBARD 04	()	—CENTRUM	()
—CENTRUM	()	—SPELLEIN	()
—ST. LUSABETHPLEIN	()	12 ANNOE	()
3 OOSTERKERKE	7 BIERIKKE	—TUKVEYEN	()
—CENTRUM	()	—ST. ANDRIE	()
—TWENTY ONE	()	—HET ZUNDIG	()
—WESTERLIND	()	—ASTRID	()
—GROENE OPANG	()	—DROEGE OPANG	()
—GROENEWIK	()	—DE DUMFAN	()
4 NIEUWPOORT	8 DE HAAN	—HET ZOUTE	()
—BAD	—VOSSERLAD	()	
	—DE LOKERBEEK	()	

BELGIUM 'INTERNAL ZONES' - 1990

ANVERS	18 ROTSELAAR	—TER HEDE	()
1 LILLE	FLANDRE OCCIDENTALE		
—WISLE BERGEN	()		
2 HULSHOUT	—KLEIN STRAND	()	
—NIEUWE PARADUS	()		
3 GEE	29 ZEDERLEM	—LAC LOEPEN	()
—NETVALLEI	()		
4 WILTVAZEL	FLANDRE ORIENTALE		
—BIEBOS	()		
5 RIJKEVOESSEL	21 BERLAERE	—NIEUWE DONK	()
—BIEBOS	()	—TULDERHEIDE	()
6 BAVELS	—ST. NIJLAAS	—DE STER	()
—TULDERHEIDE	()	—VOSSERLAE PUT	()
7 BIERSPILAS	24 GENT	—BLAARMEEREN	()
—VELDENBERG	()	—GERAARDSDIENEN	()
8 BIESEL	—BLAARMEEREN	—DE GAVERS	()
—CAMPINASTRAND	()	—ZIKTERSTRAND	()
9 MOL	25 GEMRAADSDIENEN	—NICOLEA	()
—PLOTTERBAND	()	—FLUYENDECK	()
10 RIJKEVOESSEL	HAINAUT		
—BERENSTRAND	()	27 FROIDCHAPPELE	()
11 KASTRILEE	—FERONVAL	—FERONVAL	()
—ARC VAN NOE	()	28 CHAPPELLEZ-HERLAIMONT	()
12 HOOSSTRANENMEER	—DE MOSTEN	—LAC DE CLAIRE FONTAINE	()
13 MECHELEN	LEIGE		
—DE MOEKER	()		
14 WILTVAZEL	29 WAMEL	—LAC DE ROBERTVILLE	()
—BIEBOS	()	—LAC DE MICHONCHATEAU	()
15 ZEMST	30 BUTEGENBACH	—LAC DE BUTEGENBACH	()
—BIEBOS	()	—ST. VITH	()
16 LAMNE	—MAYA CLUB	()	
—ROUTE DE LA MARACHE	()	32 LEISE	()
17 LONDERZEEL	33 JAHUY	—HOGNE	()
—INTERNATIONALE CAMPING	()	—FALDENRISE	()
	—CERFONTAINE	()	
	—FALDENRISE	()	
	—CERFONTAINE	()	

BRABANT	34 BURIGREULAND	—OUB	()
14 SCHEPENHEUVEL			
—PRINS DEMERODE	()		
15 ZEMST			
—BIEBOS	()		
16 LAMNE			
—ROUTE DE LA MARACHE	()		
17 LONDERZEEL			
—INTERNATIONALE CAMPING	()		

RIJKSWATER	85 KEMPERSKIP BELLINGWOLDE	()
8 WINDJUNE	—REKREATIEPLAS DE WEDERBERGEN WED.	()
—CENTRUM	()	
—DE HARENBEEK	87 BORGERSWOLD PEERDEWASKE	()
10 BLANENBERGE	1 LISSELMEER U 2	()
—CASINO	2 LISSELMEER U 23	()
—MARBRIKKE	88 REKREATIEPLAS ENGELBERT	()
—THERMAL	89 REKREATIEPLAS MIDWOLDEBOS	()
11 ZEEBRUGGE	4 LISSELMEER U 5	()
—CENTRUM	5 KEMTERMEER U 2	()
—SPELLEIN	90 STRANDHEEM OPENDE	()
12 ANNOE	91 REKREATIEPLAS RUTTERHOORN MUNTENDAM	()
—TUKVEYEN	92 REKREATIEPLAS MOEDERKOP TER ARPEL	()
—ST. ANDRIE	93 REKREATIEPLAS DE BEETSE, SELINGEN	()
—HET ZUNDIG	8 VELLEWEMER V 8	()
—ASTRID	9 WOLDERWUJ V 9	()
—DROEGE OPANG	10 NULDERNAUW V 9	()
—GROENE OPANG	11 NUISKERNULWUJ H 131	()
—GROENEWIK	12 GOOMER U 125	()
—LONDERZEEL	13 LIMEER U 141	()
—INTERNATIONALE CAMPING	14 GOOTZWE U 107	()
	15 MARKERMEER U 101	()
	16 NOORDZEEKANAAL ZUKANAAL B	()
	17 LISSEL KAMPEN	()
	18 BERGISCHE MAAS, BRAKEL	()
	19 HARNIGVLIETBERG H 9	()
	20 HARNIGVLIETSLUZEN H 12	()
	21 MOERLANDBRUG NOORD H 7	()
	22 OOSTVOCORPSE MEER	()
	23 BIEBOSCH INLAAT DE GUSTER	()
	24 BRUNNISE (GRIEVELINGEN)	()
	25 ROEGENPLAAT (OOSTERSCHELDE)	()
	26 KRABBEKREEK (OOSTERSCHELDE)	()
	27 OOSTERSCHELDE	()
	28 KROEKERWOLZIJZEN	()
	29 MOLENPLAAT (ZOOMMEER)	()
	30 SOELENKIEPOLDER OOST	()
	—ST. NICOLAAS	()
	31 TERNELZEN (WESTERSCHELDE)	()
	32 BADSTRAND BIEBOSCH (WESTERSCHELDE)	()
	33 VLISSINGEN (WESTERSCHELDE)	()
	34 BADSTRAND CAZANO	()
	35 BADSTRAND DONBURG	()
	36 BADSTRAND NIEUW MAASTEDE	()
	37 BADSTRAND OODOORP	()
	38 BADSTRAND HOE VAN HOLLAND	()
	39 BADSTRAND TERHEIDE	()
	40 BADSTRAND SCHEVENINGEN	()
	41 BADSTRAND WASSENHARRE SLAG	()
	42 BADSTRAND NOORDWIJK	()
	43 BADSTRAND WIJK AAN ZEE	()
	44 BADSTRAND CAMPERDUIN	()
	45 BADSTRAND HUISDUINEN	()
	46 WADDEZEE (HARLINGEN)	()
	47 GROOTE GAT NOORD (EEMIS DOLLARD)	()
	48 BOVENRUIJN DE BULAND	()
	49 WAAL BISONBAW MIDDEN	()
	50 WAAL BAKKESGAT HURWENEN	()
	51 WAAL KL. VAN HURWENEN	()
	52 GROBSE GAT	()
	53 WAAL KIEKWAARD HAFTEN	()
	54 PANNERDENS KANAAL ZWANEWATER	()
	55 PANNERDENS KANAAL LOOZWATER	()
	56 NEDERRIJNLEK GRIEL	()
	57 NEDERRIJNLEK FLAND VAN MAURK	()
	58 NEDERRIJNLEK REDICHEUSE WAARD	()
	59 NEDERRIJNLEK WATERWISCH	()
	60 NEDERRIJNLEK TULL EN T'WAAL	()
	61 LISSEL FRATERSWAARD (DOESBURG)	()
	62 LISSEL ACHTHANEN (DOESBURG)	()
	63 LISSEL RHEDERLAAG BAHRSSESTRAND	()
	64 LISSEL RHEDERLAAG GIESSEKOP	()
	65 LISSEL DE SCHERPEKOP	()
	66 MAAS HEDEL	()
	67 MAAS HEERVAARDEN	()
	68 MAAS DE GULDEN HAM HANZEBAD	()
	69 MAAS DE GULDEN HAM INSTRUMING	()
	70 MAAS LTHISE HAM	()
	71 MAAS OUDE ARM RAAI 211	()
	72 MAAS OUDE ARM RAAI 212	()
	73 NOORDZEEKANAAL ZUKANAAL E	()
	74 KIEKTRAK	()
	75 HAMMEN WEST	()
	76 LAUWERMEER WESTELIK STRAND	()
	77 LAUWERMEER OOSTELIK STRAND	()
	78 HOORNSE PLAS, GROENHVEN	()
	79 REITDIJEP BU GARNWERD	()
	80 ZUIDLAARDERMEER	()
	81 SCHALMEER (STEENHAM)	()
	82 WAGENBORDEN (REKREATIEPLAS)	()
	83 BORGERSWOLD, KOETSJUS VEENDAM	()
	84 REKREATIEPLAS BEERTA	()

LIMBOURG	106 WINDJUNE	—CENTRUM	()
—DE LUYSEN	()	—KROEKERWOLZIJZEN	()
19 JARREBE	—SFRANJERD	()	
—KLEIN STRAND	()		
29 ZEDERLEM	—HET ZUNDIG	()	
—LAC LOEPEN	()		
3 GEE	—NETVALLEI	()	
4 WILTVAZEL	—BIEBOS	()	
—BIEBOS	()		
5 RIJKEVOESSEL	—BIEBOS	()	
—BIEBOS	()		
6 BAVELS	—TULDERHEIDE	()	
—TULDERHEIDE	()		
7 BIERSPILAS	—VELDENBERG	()	
—VELDENBERG	()		
8 BIESEL	—CAMPINASTRAND	()	
—CAMPINASTRAND	()		
9 MOL	—PLOTTERBAND	()	
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10 RIJKEVOESSEL	—BERENSTRAND	()	
—BERENSTRAND	()		
11 KASTRILEE	—FERONVAL	()	
—ARC VAN NOE	()		
12 HOOSSTRANENMEER	—DE MOSTEN	()	
13 MECHELEN	—DE MOEKER	()	
—DE MOEKER	()		
14 WILTVAZEL	—BIEBOS	()	
—BIEBOS	()		
15 ZEMST	—BIEBOS	()	
—BIEBOS	()		
16 LAMNE	—ROUTE DE LA MARACHE	()	
—ROUTE DE LA MARACHE	()		
17 LONDERZEEL	—INTERNATIONALE CAMPING	()	
—INTERNATIONALE CAMPING	()		

LUXEMBOURG	45 WITTON	—VALLEE DU RABAS	()
—VALLEE DU RABAS	()	46 ST. FLORIS	()
46 ST. FLORIS	—CENTRE SPORTIF	()	
47 NEUFCHATEAU	—LAC DE MICHONCHATEAU	()	
30 BUTEGENBACH	—LAC DE BUTEGENBACH	()	
31 ST. VITH			
32 LEISE	—ETANG DU COMPLEXE SPORTIF	()	
33 JAHUY			
34 BURIGREULAND			
—OUB	()		

NETHERLANDS 'COASTAL ZONES' - 1990

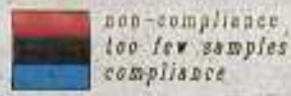
243 LOODSRECHTSE PLASSEN ELAND	()
244 LOODSRECHTSE PLASSEN (ELAND MEENT)	()
245 LOODSRECHTSE PLASSEN	()
—RECREATIEPARK TERHOORN	()
246 GROTE MAARSSBOSSE PLAS (ZWEMBAD)	()
247 VNKVEENENSE PLASSEN (VOORMALIG ZWEMBAD)	()
248 VNKVEENENSE PLASSEN TUSSEN ELAND 4 en 5	()
249 VNKVEENENSE PLASSEN ELAND 8	()
—ZWEMSTRAND	()
250 FORTORACHT BU GROENEKAM (FORT RUG)	()
251 TREKANTEN LOODSRECHTSE PLASSEN, ZWEMBAD	()
252 PLAS BU NIEUWELISLUS (ZWEMBAD)	()
253 VNKVEENENSE PL. (ZANDELAND 4)	()
254 VNKVEENENSE PL. (ZANDELAND 3)	()
255 VNKVEENENSE PL. (ZANDELAND 2)	()
256 PLAS BU STRUKVOEDTEL I	()
257 PLAS BU STRUKVOEDTEL II	()
258 PLAS BU STRUKVOEDTEL III	()
259 STRAND 1 WIEBERWATER T.H.V. FONDERSPAD	()
260 STRAND NOORDENPLASSEN	()
261 WID. EERNEVOUDE	()
262 MANSWIJ OUDERKASKE	()
263 STRUONROECK, BRAAMT (BERGH)	()
264 KLEESSEN, GALAMADAMMEN	()
265 HET LEYEN, ROTTEVALLE	()
266 LAUWERMEER, OOSTMAHORN	()
267 BORGERSWOLD, APPELSCHA	()
268 HET HEIDE, HEERENVEEN	()
269 TIEJENMEER, LEIERSPRONG, (VERSE MEER)	()
270 KLOETERMEER, BALK	()
271 BARKENPLAS, SCHERMONNKOOG	()
272 SPOKELAS, NOORDKOWDE	()
273 TUNGER LANGELLE	()
274 SMALLE ESTEITZANDING, SMALLE EE	()
275 BERGERMEER, SWAEMER	()
276 LANGWERPDER WIELEN, LANGMEER	()
277 SNEEKMEER, TERHORNE	()
278 SNEEKMEER, DE POTTEN	()
279 GRAVWIPPAD, UITWELNGERA	()
280 HEEDEMEER, HESG	()
281 OUDGAASTER BREKKEN, OUDEGA	()
282 FLEESSEN, ELANIKZEN	()
283 WADDEZEE, HARLINGEN	()
284 DE VLEVEN	()
285 PLAS HEE, WEST-REISCHHELING	()
286 WADDEZEE, HARLINGEN	()
287 DE VLEVEN	()
288 PLAS HEE, TERSCHHELLING	()
289 TULLENBROEK	()
290 NEDERSTRAND I	()
291 NEDERSTRAND II	()
292 NEDERSTRAND III	()
293 NEDERSTRAND IV	()
294 NEDERSTRAND V	()
295 NEDERSTRAND VI	()
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297 NEDERSTRAND VIII	()
298 NEDERSTRAND IX	()
299 NEDERSTRAND X	()
300 NEDERSTRAND XI	()
301 NEDERSTRAND XII	()
302 NEDERSTRAND XIII	()
303 NEDERSTRAND XIV	()
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305 NEDERSTRAND XVI	()
306 NEDERSTRAND XVII	()
307 NEDERSTRAND XVIII	()
308 NEDERSTRAND XIX	()
309 NEDERSTRAND XX	()
310 NEDERSTRAND XXI	()
311 NEDERSTRAND XXII	()
312 NEDERSTRAND XXIII	()
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315 NEDERSTRAND XXVI	()
316 NEDERSTRAND XXVII	()
317 NEDERSTRAND XXVIII	()
318 NEDERSTRAND XXIX	()
319 NEDERSTRAND XXX	()
320 NEDERSTRAND XXXI	()
321 NEDERSTRAND XXXII	()
322 NEDERSTRAND XXXIII	()
323 NEDERSTRAND XXXIV	()
324 NEDERSTRAND XXXV	()
325 NEDERSTRAND XXXVI	()
326 NEDERSTRAND XXXVII	()
327 NEDERSTRAND XXXVIII	()

**BELGIUM, NETHERLANDS & LUXEMBOURG
BATHING WATER QUALITY - 1989
COASTAL AND INTERNAL ZONES**

Compliance for parameters:
BELGIUM and LUXEMBOURG:
 TOTAL COLIFORMS $\leq 10,000/100\text{ ml}$
 FAECAL COLIFORMS $\leq 2,000/100\text{ ml}$
 for at least 95 % of the samples.

THE NETHERLANDS:
 FAECAL COLIFORMS $\leq 300/100\text{ ml}$
 on the basis of a calculated median value.

number of bathing zones:



CARTOGRAPHY:



COMMISSION OF THE EUROPEAN COMMUNITIES



BELGIUM "COASTAL ZONES" - 1989

FLANDRE OCCIDENTALE		5 MIDDELKERKE
1 DE PANNE	○	-ST. LAURENS
-BONTVEERPLAATS	○	-WESTENDE BAD
-CANADEENPLEIN	○	-ONDOORDE
2 KOKSLODE	○	-BAD
-ST. DESSALD 03	○	6 OOSTENDE
-CENTRUM	○	-HANSBROECKE
-ST. ELISABETHPLEIN	○	-CASINO
3 OOSTVAANKERRE	○	-ARTANDELING
-ST. ANDRÉ	○	-MARIKAPRÉ
-CENTRUM	○	-THERMAL
-TWENTY ONE	○	11 ZEEBRUGGE
-WESTHOLLING	●	-CENTRUM
-SCHENENDIJK	○	12 NOKKE
4 NIEUWPOORT	●	-HET ZUIDGAT
-BAD	●	-ALBERTSTRAND
		-CASINO
		-CENTRUM
		-DE DROEGE OPGANG
		-DE DUNEN
		8 DE HAAN
		-VOSSERLAD

BELGIUM "INTERNAL ZONES" - 1989

ANVERS		FLANDRE OCCIDENTALE	
1 LILLE	○	40 RECH T MITH	○
-NISLE BERGEN	○	-ETANG DE RECH	○
2 WESTERBEEK	○	41 ANGLEUR	●
-NIEUWE PARODUS	○	-MAVA CLUB	●
3 GEE	○	42 KOVEMPIRE-JALHAY	○
-NETVALEI	○	-HOEGNE	○
4 WILSTWAZEL	○	LIMBOURG	
-KEDVEN	○	43 BREE	○
5 BRUKSEL	○	-DE LUSSEN	○
-RECREATIEPOLDERWIND	○	44 ANFOCOI-OPHOVEN	○
6 POFHEL	○	-SPANLEIRO	●
-TULDERHEYDE	○	45 MASEK-ALDENK	○
7 MINGPLAS	○	-HEERLENIAAK	○
-VELDENBERG	○	46 OOSTEREN-MAASEK	○
8 DESSEL	○	-WOUTERBROEN	○
-CAMFRANSTRAND	○	47 OLBEN-LANGLAAR	○
9 MCL	○	-KOMMELN	○
-ZILVERMEER (PLOTTERBAD)	○	48 MAASMECHELEN	○
-ZILVERMEER	○	-KOMMELN	○
-NIEUWE DOOK	○	49 LANAKEN-REKEM	○
10 MCL-POSTEL	○	-SONNEVUURERS	○
-FAMILIESTRAND	○	50 DE STER	○
11 REIE	○	-HERBSTRAND	○
-BERKENSTRAND	○	51 ZONNOVEN	○
12 LICHTAART	○	-BERENSTRAND	○
-ARC-VAN-ROE	○	52 BERNEMEN-KOERSEL	○
13 HOOGSTRATENMEER	○	-TRONTEN-LE GROTE VUVER	○
-RUC-VAN-ROE	○	-TRONTEN-LE KLEINE VUVERT	○
14 MECHELEN	○	53 WACHTERKE	●
-DE NIEKER	○	-RUFENBEREK	○
		54 BAISTRAND CAMPINGRUI	○
		55 GAVERS	○
		56 HAGOOSTRAATENMEER	○
		-RUSSEDEM	○
		57 OUDENHAARDE	○
		-INFO CAMPING SPORVAL	○
		HAINAUT	
		58 BOUSSALEZ-WALCOURT	○
		-FRONVAL	○
		59 CHAPPELLE-HERLAMONT	○
		-LAC DE CLARE FONTAINE	○
		17 OHAN	○
		-ROUTE DE LA MARACHE	○
		18 LASNE-CHAPPELLE-ST. LAMBERT	○
		-PLAINE DE RENIPONT	○
		19 ROTSELBAAN	○
		-BUTGENBACH	○
		-BUTGENBACH	●

NETHERLANDS "COASTAL ZONES" - 1989

RUKSWATER		86 REKREATIEPLAS 'DE WEDDERBERGEN'	○
1 LISSELMEER U 2	○	87 BORGERSWOLD PEEDERWASKE	○
2 LISSELMEER U 3	○	88 REKREATIEPLAS ENGELBERT	○
3 LISSELMEER U 20	○	89 REKREATIEPLAS MIDWOLDBERGS	○
4 LISSELMEER U 5	○	90 STRANCIHEM OPEENDE	○
5 NIEUWMEER U 12	○	96 REKREATIEPLAS RIJTERHORST, MUNTENDIJK	○
6 GROENTEMEER V 1	○	91 REKREATIEPLAS MOERESGAT TER APSEL	○
7 VELLUMEER V 3	○	92 REKREATIEPLAS DE BREETSE, SELLINGEN	○
8 NELLEWEEER V 8	○	93 REKREATIEPLAS DE BARKHOORN, SELINGEN	○
9 WOLDEPWIJUD V 6	○	94 REKREATIEPLAS GRUNOSTRAND, HARKSEE	○
10 NULDERNAIJ V 9	○	95 REKREATIEPLAS TERMAALTEN, TERMUNTERDIE	○
11 NULDERNAIJ U 131	○	96 REKREATIEPLAS WATERDAL, STADS-KANAAL	○
12 GOOMER U 125	○	97 BAALZEE STRAND	○
13 LAMER U 141	○	98 SELLINGEBEETSE SBB SELLINGEN	○
14 GOUMWEE U 107	○	99 HEERSEMER NIEUWE PEKELA	○
15 MAKKEEMEER U 101	○	100 REKREATIEPLAS ZUID OUDE PEKELA	○
16 NOORDZEKANAL, ZUKANAAL B	○	FRIELAND	
17 LISSEL, KAMPEN	●	101 IT WID, EERNEWOLDE	○
18 HARENGVUJEBRUG H 9	○	102 NANNENWOLD OUDERHAGE	○
19 HARENGVUJEBRUG H 7	○	103 FLOEISAGOLDRUWOLDE, MAKINGA	○
21 OOSTVOORSE MEER	○	104 FLUJESSEN, GALAMADAMMEN	○
22 BRESSOCH-RIJLAAT DE GUSTER	○	105 DE LEYEN, ROTTEVALLE	○
23 BRINNSEE (GROELINGEN)	○	106 LAUWERSMEER, OOSTMAHORN	○
24 ROEGESPRJAAT (OOSTERSCHELDE)	○	107 KREKENKLUZEN	○
25 KRAMBROEKEN (OOSTERSCHELDE)	○	108 DE LUSSE, HEDEBVEEN	○
26 OOSTERSCHELDE	○	109 'TJEUKEVEER, ULESPRONG, (VERSE MEER)	○
27 KREKENKLUZEN	○	110 NICOLAASGR.	○
28 MOLENLAAT (ZOOMMEER)	○	111 SLOTERMEER, BALK	○
29 SOLEKREKPELDOER OOST	○	112 BERKENPLAS, SCHERMONNIKOOG	○
30 TERNEUZEN (WESTERSCHELDE)	○	113 SPOKTERPLAS, NOORDWOLDE	○
31 BADSTRAND BRESKENS (WESTERSCHELDE)	○	114 SMALLE ESTERZANDING, SMALLE EE	○
32 BADSTRAND DOMBURING	○	115 BERGEMERMEER, SUMMER	○
33 VLISSINGEN (WESTERSCHELDE)	○	116 KLEINE WIELEN, LEEUWARDEN	○
34 BADSTRAND CAZANO	○	117 HEDEGEMER, INDIJK	○
35 BADSTRAND OMBURG	○	118 LANGHEERDE WIELEN, LANGMEER	○
36 BADSTRAND NIEUW HAAMSTEDE	○	119 SNEEKEMEER, TERHORNE	○
37 BADSTRAND OORLOOP	○	120 SNEEKEMEER, DE POTTEN	○
38 BADSTRAND HOEK VAN HOLLAND	○	121 GRANNENPADIJ, UTWELINGKERK	○
39 BADSTRAND TERHEYDE	○	122 HEDEGEMER, HEEG	○
40 BADSTRAND SCHIEVENINGEN	○	123 OUDERGAATEN BREKKEN, OUDEGA	○
41 BADSTRAND WAGENMARSE SLAG	○	124 PLAS HEE, WEST TERSCHELING	○
42 BADSTRAND NOORDRIJK	○	125 FLUJESSEN, ELAUIZEN	○
43 BADSTRAND WIJK AAN ZEE	○	126 WADDENZEE, HARLINGEN	○
44 BADSTRAND CAMPERDUIN	○	127 DE VIEREN	○
45 BADSTRAND HUSSONEN	○	DRENTHE	
46 WADDENZEE (HARLINGEN)	○	128 RONOSTRAND	○
47 GROOTE GAT NOORD (EEMIS DOLLARD)	○	129 'N LE HEMERBEK	○
48 BOVENIJN DE BULAND	○	130 REKREATIEVELUVER EMMERCOMPASCIUM	○
49 WAAL, BISONBAAI MOEDEN	○	131 HUNDEDAL	○
50 WAAL, BAGGERGAT HURHENEEN	○	132 'ZOOMER	○
51 WAAL, KR. VAN HURHENEEN	○	133 BERENPLAS	○
52 WAAL, KERKENWAARD HAFTEN	○	134 NOOTSEBOCHT	○
53 PANNEBOENS KANAAL, ZWANENWATER	○	135 BAGGELHUIZEN	○
54 PANNEBOENS KANAAL, LODOWAARD	○	136 TER HORSTERZAND	○
55 NEDERRIJNLEK DRIEL	○	137 DE TILSSEBODERLANDEN	○
56 NEDERRIJNLEK ELAND VAN MALRIJK	●	138 SCHOONHOVEN	○
57 NEDERRIJNLEK REDICHEVSE WAARD	○	139 MUTTENHOLVETE DAGKREKATIE	○
58 NEDERRIJNLEK NATWESCH	○	140 ZANDPOL	○
59 NEDERRIJNLEK LOPPEKAPPEL	●	141 ERMERZAND	○
60 NEDERRIJNLEK TULL EN 'T WAAL	○	142 NIEBKLELLE	○
61 LISSEL, FRATERIWAARD (DOESBURG)	○	143 REKREATIEVELUVER BORKERCOMPASCIUM	○
62 LISSE, ACHTAVEN (DOESBURG)	○	144 VEENMEER	○
63 LISSEL, RHEIDERLAAG (BARNSESTRAND)	○	145 NATUURBAD SCHROBERG	○
64 LISSEL, RHEIDERLAAG, GIESSEKOP	○	146 DE KUIPERADTEN SPAFFELVUVER	○
65 LISSEL, DE SCHIEPENHOEF	○	147 'T KOPPEPADIEN SPAFFELVUVER	○
66 MAAS HEDDE	○	148 SURRPLAS	○
67 MAAS HEDEWARSDEN	○	149 REKREATIEPLAS CAMPING BRUGGINK	○
68 MAAS DE GOUDEN HAM 'HANZEBAD'	○	150 BLAUWE MEER	○
69 MAAS DE GOUDEN HAM 'INSTROMING'	●	151 KLAVERKAMPEN	○
70 MAAS LITSEH HAM	○	152 GAT VAN BLDJENSTEN	○
71 MAAS OUDE ARMA, RAAI 211	○	153 REKREATIEVELUVER, CAMPING DE OTTERBORG	○
72 MAAS OUDE ARMA, RAAI 212	○	154 DWAZZEVEGEN	○
73 NOORDZEKANAL, ZUKANAAL E	○	GRONINGEN	
74 HAMMER WEST	○	75 LAUWERSMEER WESTELIJK STRAND	○
		76 LAUWERSMEER, OOSTELIJK STRAND	○
		77 HODRINSE PLAS, GRONINGEN	○
		78 REITDIJK BIJ GAANWROD	○
		79 ZUIDLANDERMEER	○
		80 SCHILMEER (STEDNAM)	○
		81 WAGENINGEN (RECREATIEPLAS)	○
		82 BORGERSWOLD, KOSTIJS VLENDAM	○
		83 REKREATIEPLAS BEERTA	○
		84 KEMPERPARK BELLINGWOLDE	○
		85 BELTWERD	○

236 VINKEVEENSE Plassen (BU ZANDEL 8)	○	161 BELLAARWIDE	○
237 FORTGRACHT BIJ OROENKAN (FORT RUGENHO)	○	162 AONTERPLAS, ZWOLLE	○
238 HOUTRANEN LOOSDRECHTSE Plassen	○	163 WUTMENERPES WAST	○
ZWEMBAD	○	241 KUIJTERMEER	○
241 KUIJTERMEER	○	164 WUTMENERPES DOST	○
242 VINKEVEENSE PL. (EILAND 4)	●	165 KNETELMEER OOST	○
316 ZUID- EN NOORD-SPAARNEDAMMER PLD.R.	○	166 HULSBEEK	○
317 ZUID-NOORD-SPAARN.PLD. VUVER	○	167 HET RUTBECK	○
318 AMSTERDAMSE BOS, GROTE VUVER	○	168 TUNGGEPADIJ	○
319 SLOOTERPLAS, ZUIDKANT	○	169 HET LAGE VELD	○
320 KAGERPlassen, NIEVEN	○	NOORD-HOLLAND	
321 KAGERPlassen, KOPPEL	○	246 TREGKATEN	○
322 ZEELERPLAS	○	170 ROEGESTRUVUVER	○
323 KAGERPlassen, DE ZUL	○	171 SPRUKVUVER	○
324 NIEUWE MEER, NOORDWESTKANT	○	172 DE LUKKE LARSEBOS	○
325 VLIETLANDEN, NOORDWESTKANT	○	173 HOGE DWARVAART (DE GAPER)	○
326 NIEUWMEER, NOORDWESTKANT	○	174 'T BOVENWATER LELVISTAD	○
327 BROEDVELDEN VETTERBROEK	○	248 NARDBERGS, WIDMAAL	○
328 ZOETTERMEERSCHE MEERPOLDER	○	249 NARDBERGS, SPAFFELVUVER	○
329 POLDER NIEUWKOOP EN NOORDEN	○	250 GAASPERLAS (WINDSURFOEVER)	○
330 POLDER NIEUWKOOP GROOT VOGELZANG	○	251 POLDER NIEUWKOOP EN NOORDEN	○
331 POLDER SUIPWIK, KALVEBROEK	○	252 POLDER NIEUWKOOP EN NOORDEN	○
332 NIEUWKOOP Plassen, ZUIDNIEUWPLAS	○	253 POLDER NIEUWKOOP EN NOORDEN	○
333 NIEUWKOOP Plassen	○	254 POLDER NIEUWKOOP EN NOORDEN	○
334 AMSTERDAMSE BOS, HALVERWEGE	○	255 POLDER NIEUWKOOP EN NOORDEN	○
335 AMSTERDAMSE BOS, NOORDOEVER	○	256 POLDER NIEUWKOOP EN NOORDEN	○
336 AMSTERDAMSE BOS, HALVERWEGE	○	257 POLDER NIEUWKOOP EN NOORDEN	○
337 AMSTERDAMSE BOS, NOORDOEVER	○	258 POLDER NIEUWKOOP EN NOORDEN	○
338 AMSTERDAMSE BOS, NOORDOEVER	○	259 POLDER NIEUWKOOP EN NOORDEN	○
339 AMSTERDAMSE BOS, NOORDOEVER	○	260 POLDER NIEUWKOOP EN NOORDEN	○
340 AMSTERDAMSE BOS, NOORDOEVER	○	261 POLDER NIEUWKOOP EN NOORDEN	○
341 AMSTERDAMSE BOS, NOORDOEVER	○	262 POLDER NIEUWKOOP EN NOORDEN	○
342 AMSTERDAMSE BOS, NOORDOEVER	○	263 POLDER NIEUWKOOP EN NOORDEN	○
343 AMSTERDAMSE BOS, NOORDOEVER	○	264 POLDER NIEUWKOOP EN NOORDEN	○
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351 AMSTERDAMSE BOS, NOORDOEVER	○	272 POLDER NIEUWKOOP EN NOORDEN	○
352 AMSTERDAMSE BOS, NOORDOEVER	○	273 POLDER NIEUWKOOP EN NOORDEN	○
353 AMSTERDAMSE BOS, NOORDOEVER	○	274 POLDER NIEUWKOOP EN NOORDEN	○
354 AMSTERDAMSE BOS, NOORDOEVER	○	275 POLDER NIEUWKOOP EN NOORDEN	○
355 AMSTERDAMSE BOS, NOORDOEVER	○	276 POLDER NIEUWKOOP EN NOORDEN	○
356 AMSTERDAMSE BOS, NOORDOEVER	○	277 POLDER NIEUWKOOP EN NOORDEN	○
357 AMSTERDAMSE BOS, NOORDOEVER	○	278 POLDER NIEUWKOOP EN NOORDEN	○
358 AMSTERDAMSE BOS, NOORDOEVER	○	279 POLDER NIEUWKOOP EN NOORDEN	○
359 AMSTERDAMSE BOS, NOORDOEVER	○	280 POLDER NIEUWKOOP EN NOORDEN	○
360 AMSTERDAMSE BOS, NOORDOEVER	○	281 POLDER NIEUWKOOP EN NOORDEN	○
361 AMSTERDAMSE BOS, NOORDOEVER	○	282 POLDER NIEUWKOOP EN NOORDEN	○
362 AMSTERDAMSE BOS, NOORDOEVER	○	283 POLDER NIEUWKOOP EN NOORDEN	○
363 AMSTERDAMSE BOS, NOORDOEVER	○	284 POLDER NIEUWKOOP EN NOORDEN	○
364 AMSTERDAMSE BOS, NOORDOEVER	○	285 POLDER NIEUWKOOP EN NOORDEN	○
365 AMSTERDAMSE BOS, NOORDOEVER	○	286 POLDER NIEUWKOOP EN NOORDEN	○
366 AMSTERDAMSE BOS, NOORDOEVER	○	287 POLDER NIEUWKOOP EN NOORDEN	○
367 AMSTERDAMSE BOS, NOORDOEVER	○	288 POLDER NIEUWKOOP EN NOORDEN	○
368 AMSTERDAMSE BOS, NOORDOEVER	○	289 POLDER NIEUWKOOP EN NOORDEN	○
369 AMSTERDAMSE BOS, NOORDOEVER	○	290 POLDER NIEUWKOOP EN NOORDEN	○
370 AMSTERDAMSE BOS, NOORDOEVER	○	291 POLDER NIEUWKOOP EN NOORDEN	○
371 AMSTERDAMSE BOS, NOORDOEVER	○	292 POLDER NIEUWKOOP EN NOORDEN	○
372 AMSTERDAMSE BOS, NOORDOEVER	○	293 POLDER NIEUWKOOP EN NOORDEN	○
373 AMSTERDAMSE BOS, NOORDOEVER	○	294 POLDER NIEUWKOOP EN NOORDEN	○
374 AMSTERDAMSE BOS, NOORDOEVER	○	295 POLDER NIEUWKOOP EN NOORDEN	○
375 AMSTERDAMSE BOS, NOORDOEVER	○	296 POLDER NIEUWKOOP EN NOORDEN	○
376 AMSTERDAMSE BOS, NOORDOEVER	○	297 POLDER NIEUWKOOP EN NOORDEN	○
377 AMSTERDAMSE BOS, NOORDOEVER	○	298 POLDER NIEUWKOOP EN NOORDEN	○
378 AMSTERDAMSE BOS, NOORDOEVER	○	299 POLDER NIEUWKOOP EN NOORDEN	○
379 AMSTERDAMSE BOS, NOORDOEVER	○	300 POLDER NIEUWKOOP EN NOORDEN	○
380 AMSTERDAMSE BOS, NOORDOEVER	○	301 POLDER NIEUWKOOP EN NOORDEN	○
381 AMSTERDAMSE BOS, NOORDOEVER	○	302 POLDER NIEUWKOOP EN NOORDEN	○
382 AMSTERDAMSE BOS, NOORDOEVER	○	303 POLDER NIEUWKOOP EN NOORDEN	○
383 AMSTERDAMSE BOS, NOORDOEVER	○	304 POLDER NIEUWKOOP EN NOORDEN	○
384 AMSTERDAMSE BOS, NOORDOEVER	○	305 POLDER NIEUWKOOP EN NOORDEN	○
385 AMSTERDAMSE BOS, NOORDOEVER	○	306 POLDER NIEUWKOOP EN NOORDEN	○
386 AMSTERDAMSE BOS, NOORDOEVER	○	307 POLDER NIEUWKOOP EN NOORDEN	○
387 AMSTERDAMSE BOS, NOORDOEVER	○		