

## Single Integrated Metadata Structure (SIMS)

**Country:** Greece

**Compiling agency:** ELSTAT

**Domain name:** Inland Waters Statistics – Lakes, quality characteristics

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1. Contact		<a href="#">Top</a>
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## 2. Introduction

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The presented data, are part of the annual data collection, aiming at filling in the Joint Questionnaire OECD/Eurostat on Inland Waters. The Joint Questionnaire, is filled in every two years and includes, among others, annual data on the quality characteristics of selected lakes of Greece:

- Lake Chimaditida
- Lake Petron
- Lake Mikri Prespa
- Lake Vegoritida
- Lake Megali Prespa

There is no legal framework governing the conduct of the survey by the Member States. There is only a “gentlemen’s agreement”.

## 3. Metadata Update

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<b>3.1 Metada last certified</b>	October 2014
<b>3.2 Metadata last posted</b>	October 2014
<b>3.3 Metadata last updated</b>	October 2014

## 4. Statistical Presentation

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### 4.1 Data description

There is no legal framework, governing the conduct of the survey by the Member States. There is only a “gentlemen’s agreement”.

The data are collected from administrative sources and namely: the Special Secretariat for Waters (EGY) of the Ministry of Enviroment, Energy and Climate Change (YPEKA), as well as the Ministry of Rural Development and Food (YPAAT).

More specifically, the collected data, refer to the sampling results of:

- 1) the Programme for Monitoring the National Observation Network of the EGY (YPEKA), which aims at evaluating the quality of the water bodies, pursuant to the Directive 2000/60/EC.
- 2) YPAAT in collaboration with the Aristotle University of Thessaloniki.

Sampling, takes place in several sampling points of the lakes of Greece. In order to ensure comparability of the data on water quality for each lake, a sampling point, the same for all the reference years, is identified, through the geographical coordinates. Afterwards, the annual average value, of each parameter, is estimated, in accordance with the Directive 2009/90/EC.

### 4.2 Classification system

No classification system is followed.

<b>4.3 Sector coverage</b>
The survey data, refer to the presentation of the annual average of quality parameters, of selected lakes of Greece.
<b>4.4 Statistical concepts and definitions</b>
The main variables of the survey, are the chemical parameters, that characterize the water quality of a lake.
<b>4.5 Statistical unit</b>
The lake (quality characteristics)
<b>4.6 Statistical population</b>
Selected lakes of Greece (quality characteristics).
<b>4.7 Reference area</b>
Greece total.
<b>4.8 Time coverage</b>
Annual, with first reference year, the year 1992.
<b>4.9 Base period</b>
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<b>5. Unit of measure</b>	<b><a href="#">Top</a></b>
<ol style="list-style-type: none"> <li>1) Temperature: °C</li> <li>2) Acidity: pH</li> <li>3) Oxygen Saturation</li> <li>4) BOD, COD: mg O<sub>2</sub>/l</li> <li>5) Suspended and Dissolved solids: mg/l</li> <li>6) Concentration of nitrogen, nitrates ammonia, phosphorus, orthophosphates, chlorophyll: µg/l</li> <li>7) Coliforms concentration: n/100ml</li> <li>8) Metals concentration: mg/l</li> </ol>	

<b>6. Reference period</b>	<b><a href="#">Top</a></b>
Samplings which were held within one calendar year.	

<b>7. Institutional mandate</b>	<b><a href="#">Top</a></b>
<b>7.1 Legal acts and other agreements</b>	
<u>National level</u>	
<p>The legal framework concerning the organization and operation of ELSTAT is as follows:</p> <p>Law 3832/2010 (Government Gazette No 38, Issue A): "<i>Hellenic Statistical System Establishment of the Hellenic Statistical Authority (ELSTAT) as an Independent Authority</i>", as amended by article 90 paragraphs 8 and 9 of the Law 3842/2010 (Government Gazette No 58, Issue A): "<i>Restoration of fiscal justice, confrontation of</i>"</p>	

tax evasion and other provisions", by article 10 of the Law 3899/2010 (Government Gazette No 212, Issue A): "Urgent measures for the implementation of the assistance program of the Greek Economy", by article 45 of the Law 3943/2011 (Government Gazette No 66, Issue A): "Combating tax evasion, staffing of auditing services and other provisions falling within the competence of the Ministry of Finance", by article 22 paragraph 1 of the Law 65/2011 (Government Gazette No 113, Issue A): "Operations Reform of the Consignment and Loan Fund, Public Debt Management Agency, Public Enterprises and Government bodies, the establishment of the General Secretary of Public Property and other provisions", by article first of the Law 4047/2012 (Government Gazette No 31, Issue A): "Ratification of the Act of Legislative Content 'Very urgent measures for the implementation of the Medium-term Fiscal Strategy 2012-2015 and of the State Budget for 2011' and of the Act of Legislative Content 'Regulation of very urgent issues for the implementation of law 4024/2011 'Pension provisions, uniform pay scale - grading system, labour reserve and other provisions for the implementation of the Medium-term Fiscal Strategy Framework 2012-2015' and of issues falling within the competence of the Ministries of Administrative Reform and E-Governance, Interior, Finance, Environment, Energy and Climate Change, and of Education, Lifelong Learning and Religious Affairs and related to the implementation of the Medium-term Fiscal Strategy Framework 2012-2015' and other provisions", by article 323 of the Law 4072/2012 (Government Gazette No 86, Issue A): "Improvement of the business environment New corporate form - Trade Marks - Dealers - Regulating maritime, port and fishing matters and other provisions" and by article 7 paragraph 1 of the Act of Legislative Content dated 18/11/2012 (Government Gazette No 228, Issue A): "Financial rules and other provisions", by Article 93 of the Law 4182/2013 (Government Gazette No 185, Issue A): "Code of charitable state, inheritances in abeyance and other provisions", by Article 6 paragraph 8 of the Law 4244/2014 (Government Gazette No 60, Issue A): "Integration in Greek law of the Council Directive 2013/1/EU of 20 December 2012 amending Directive 93/109/EC as regards certain detailed arrangements for the exercise of the right to vote and stand as a candidate in elections to the European Parliament for citizens of the Union residing in a member State of which they are not nationals and amendment of law 2196/1994 (A' 41) and other provisions", by Article first subparagraph C.3 of the Law 4254/2014 (Government Gazette No 85, Issue A): "Measures for the support and development of the Greek economy, in the context of the implementation of Law 4046/2012, and other provisions of law" and by Article 33, paragraphs 5a and 5b of the Law 4258/2014 (Government Gazette No 100, Issue A): "Demarcation process and arrangements of matters for streams - arrangements of Urban Planning legislation and other provisions".

[Regulation on the Operation and Administration of the Hellenic Statistical Authority \(ELSTAT\), 2012, \(Government Gazette No 2390, Issue B, 28-8-2012\)](#)

Regulation (EC) No 223/2009 of the European Parliament and of the Council, on the European statistics (Official Journal of the European Union L 87/164).

Article 14 of the Law 3470/2006 (Government Gazette No 132, Issue A): "National Export Council, tax regulations and other provisions".

Article 3, paragraph 1c, of the Law 3448/2006 (Government Gazette No 57, Issue A): "For the further use of information coming from the public sector and the settlement of matters falling within the responsibility of the Ministry of Interior, Public Administration and Decentralization".

European Statistics Code of Practice, adopted by the Statistical Programme Committee on 24 February 2005 and promulgated in the Commission Recommendation of 25 May 2005 on the independence, integrity and accountability of the national and Community statistical Authorities, after its revision, which was adopted on 28 September 2011 by the European Statistical System Committee.

Presidential Decree 226/2000 (Government Gazette No 195, Issue A): "Organization of the General Secretariat of the National Statistical Service of Greece".

Articles 4, 12, 13, 14, 15 and 16 of the Law 2392/1996 (Government Gazette No 60, Issue A): "Access of the General Secretariat of the National Statistical Service of Greece to administrative sources and administrative files, Statistical Confidentiality Committee, settlement of matters concerning the conduct of censuses and statistical works, as well as of matters of the General Secretariat of the National Statistical Service of Greece".

European level:

There is no legal framework governing the conduct of the survey on Inland Waters, through the Joint

Questionnaire OECD/Eurostat.

## **7.2 Data sharing**

The data collected through the Joint Questionnaire OECD/Eurostat concerning the Inland Waters, are transmitted to the OECD via Eurostat.

# **8. Confidentiality**

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## **8.1 Confidentiality policy**

The issues concerning the observance of statistical confidentiality by the Hellenic Statistical Authority (ELSTAT) are arranged by articles 7, 8 and 9 of the Law 3832/2010 as in force, by Articles 8, 10 and 11(2) of the Regulation on Statistical Obligations of the agencies of the Hellenic Statistical System and by Articles 10 and 15 of the Regulation on the Operation and Administration of ELSTAT.

Furthermore, ELSTAT disseminates the statistics in compliance with the statistical principles of the European Statistics Code of Practice and in particular with the principle of statistical confidentiality.

## **8.2 Confidentiality – data treatment**

ELSTAT protects and does not disseminate data it has obtained or it has access to, which enable the direct or indirect identification of the statistical units that have provided them by the disclosure of individual information directly received for statistical purposes or indirectly supplied from administrative or other sources. ELSTAT takes all appropriate preventive measures so as to render impossible the identification of individual statistical units by technical or other means that might reasonably be used by a third party. Statistical data that could potentially enable the identification of the statistical unit are disseminated by ELSTAT if and only if:

- a) these data have been treated, as it is specifically set out in the Regulation on Statistical Obligations of the agencies of the Hellenic Statistical System (ELSS), in such a way that their dissemination does not prejudice statistical confidentiality or
- b) the statistical unit has given its consent, without any reservations, for the disclosure of data.

The confidential data that are transmitted by ELSS agencies to ELSTAT are used exclusively for statistical purposes and the only persons who have the right to have access to these data are the personnel engaged in this task and appointed by an act of the President of ELSTAT.

ELSTAT may grant researchers conducting statistical analyses for scientific purposes access to data that enable the indirect identification of the statistical units concerned. The access is granted provided the following conditions are satisfied:

- a) an appropriate request together with a detailed research proposal in conformity with current scientific standards have been submitted;
- b) the research proposal indicates in sufficient detail the set of data to be accessed, the methods of analyzing them, and the time needed for the research;
- c) a contract specifying the conditions for access, the obligations of the researchers, the measures for respecting the confidentiality of statistical data and the sanctions in case of breach of these obligations has been signed by the individual researcher, by his/her institution, or by the organization commissioning the research, as the case may be, and by ELSTAT.

Issues referring to the observance of statistical confidentiality are examined by the Statistical Confidentiality Committee (SCC) operating in ELSTAT. The responsibilities of this Committee are to make recommendations to the President of ELSTAT on:

- the level of detail at which statistical data can be disseminated, so as the identification, either directly or indirectly, of the surveyed statistical unit is not possible;
- the anonymization criteria for the microdata provided to users;

- the granting to researchers access to confidential data for scientific purposes.

The staff of ELSTAT, under any employment status, as well as the temporary survey workers who are employed for the collection of statistical data in statistical surveys conducted by ELSTAT, who acquire access by any means to confidential data, are bound by the principle of confidentiality and must use these data exclusively for the statistical purposes of ELSTAT. After the termination of their term of office, they are not allowed to use these data for any purpose.

Violation of data confidentiality and/or statistical confidentiality by any civil servant or employee of ELSTAT constitutes the disciplinary offence of violation of duty and may be punished with the penalty of final dismissal.

ELSTAT, by its decision, may impose a penalty amounting from ten thousand (10,000) up to two hundred thousand (200,000) euros to anyone who violates the confidentiality of data and/or statistical confidentiality. The penalty is always imposed after the hearing of the defense of the person liable for the breach, depending on the gravity and the repercussions of the violation. Any relapse constitutes an aggravating factor for the assessment of the administrative sanction.

9. Release policy	<a href="#">Top</a>
<b>9.1 Release calendar</b>	
The survey results are not published in a Press Release.	
<b>9.2 Release calendar access</b>	
The survey results are not published in a Press Release.	
<b>9.3 User access</b>	
In compliance with Community legislation and the European Statistics Code of Practice, ELSTAT releases all national statistical data on its webpage, fully observing professional independence and with a view to ensuring the simultaneous, equal and timely access of all users to statistical data.	

10. Frequency of dissemination	<a href="#">Top</a>
The survey results are released one month after the validation of data by Eurostat.	

11. Dissemination Format	<a href="#">Top</a>
<b>11.1 News release</b>	
The survey results are not published in a Press Release.	
<b>11.2 Publications</b>	
None	
<b>11.3 On-line database</b>	
The survey results, are not posted on ELSTAT's database.	

### **11.3.1 Data tables -consultations**

Data tables were posted in 2014 and, therefore, no results are yet available, as regards consultations.

### **11.4 Micro-data access**

The sampling results are provided by the Special Secretariat for Waters of the YPEKA, and by YPAAT.

### **11.5 Other**

Tabulated survey data are posted on ELSTAT's webpage:

[http://www.statistics.gr/portal/page/portal/ESYE/PAGE-themes?p\\_param=A1501&r\\_param=SOP07&y\\_param=TS&mytabs=0](http://www.statistics.gr/portal/page/portal/ESYE/PAGE-themes?p_param=A1501&r_param=SOP07&y_param=TS&mytabs=0)

#### **11.5.1 Metadata - consultations**

Not measured.

## **12. Accessibility of documentation**

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### **12.1 Documentation on methodology**

The methodology suggested by Eurostat, is followed in the Inland Waters Survey.

[http://ec.europa.eu/eurostat/ramon/coded\\_files/OECD\\_ESTAT\\_JQ\\_Manual\\_version\\_2\\_21.pdf](http://ec.europa.eu/eurostat/ramon/coded_files/OECD_ESTAT_JQ_Manual_version_2_21.pdf)

As regards the Tables on the quality of lakes, the instructions laid down in the Joint Questionnaire OECD/Eurostat on Inland Waters, are followed. Relevant information, on the assessment of the quality characteristics of each lake, on the basis of the sampling results, are presented in each Table.

#### **12.1.1 Metadata completeness (percentage)**

Metadata completeness, as regards the applicable fields for this survey, is 100%.

### **12.2 Quality documentation**

No quality report is compiled.

## **13. Quality management**

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### **13.1 Quality assurance**

The Directive 2009/90/EC, is taken into account, in order to estimate the annual average value of the chemical parameters, which determine the quality characteristics of each lake, on the basis of the sampling results, carried out by certified chemical laboratories of Greece.

### **13.2 Quality assessment**

The results of the survey, on the quality characteristics of selected lakes of Greece, are considered reliable, because, they are based on the sampling results by YPEKA and YPAAT. According to these results, the estimated annual average values of the chemical parameters, was based on the methodology of the Directive 2009/90/EC and the results were checked, both by YPEKA - YPAAT and Eurostat.

## **14. Relevance**

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### **14.1 User needs**

The main users of the survey data are Eurostat, OECD, the European Environment Agency etc.

<b>14.2 User satisfaction</b>
ELSTAT conducts a survey on the users' satisfaction: <a href="http://www.statistics.gr/portal/page/portal/ESYE/PAGE-conferences">http://www.statistics.gr/portal/page/portal/ESYE/PAGE-conferences</a>
<b>14.3 Completeness</b>
Completeness, is considered satisfactory, as long as, there are available sampling results, for the selected lakes.

<b>15. Accuracy and reliability</b>	<b><u>Top</u></b>
<b>15.1 Overall accuracy</b>	
The survey results, are characterized by high accuracy, since, the survey, is based on sampling results, of the chemical parameters of the lakes. There are no sampling errors, but only measurement errors, on account of the sampling devices.	
<b>15.2 Sampling error</b>	
None	
<b>15.3 Non-sampling error</b>	
Non-sampling errors, refer to measurement errors, of the measurement devices, used for the sampling of the chemical parameters of the lakes.	
<b><u>15.3.1 Coverage error</u></b>	
The survey covers samplings of the chemical characteristics of selected lakes of Greece. There are no coverage errors.	
<b><u>15.3.1.1 Over-coverage rate</u></b>	
Not applicable.	
<b><u>15.3.1.2 Common units (percentage)</u></b>	
The survey data, derive solely from administrative sources. Therefore, there are no common units (0%).	
<b><u>15.3.2 Measurement error</u></b>	
Measurement errors, refer only to errors during the sampling, of the chemical characteristics of the lakes.	
<b><u>15.3.3 Non response error</u></b>	
Not applicable.	
<b><u>15.3.4 Processing error</u></b>	
Processing errors, refer to rounding when calculating the average concentration of the above mentioned chemical characteristics.	
<b><u>15.3.5 Model assumption error</u></b>	
Not applicable.	

<b>16. Timeliness and punctuality</b>	<b><u>Top</u></b>
<b>16.1 Timeliness</b>	
The survey results, are disseminated, two years after the end of the reference year.	
<b>16.2 Punctuality</b>	
The results are published, one month after their validation by Eurostat.	



<b>17. Comparability</b>	<b><u>Top</u></b>
<b>17.1 Comparability - geographical</b>	
<p>There is a geographical comparability among the survey results, because, for each lake, the same chemical parameters are examined.</p> <p><b><u>17.1.1 Assymetry for mirror – flows – statistical (coefficient)</u></b></p> <p>Not applicable.</p>	
<b>17.2 Comparability – over time</b>	
<p>In order to ensure comparability among the results, on the quality of the waters for each lake, a sampling point, the same for all the reference years, is identified, through geographical coordinates. Then, the annual average value, of each parameter, is estimated, taking into account, the Directive 2009/90/EC.</p>	
<b>18. Coherence</b>	<b><u>Top</u></b>
<b>18.1 Coherence cross-domain</b>	
<p>The survey results, are coherent with the sampling results of YPEKA and YPAAT.</p> <p><b><u>18.1.1 Coherence – sub annual and annual statistics</u></b></p> <p>Not applicable. The results are published only on an annual basis.</p> <p><b><u>18.1.2 Coherence – National Accounts</u></b></p> <p>Not applicable.</p>	
<b>18.2 Coherence - internal</b>	
<p>The estimates of the survey, are characterized by high internal coherence, as they are based on the same methodology for data collection and data processing, and, at the same time, data quality is ensured by means of checks.</p>	
<b>19. Cost and Burden</b>	<b><u>Top</u></b>
<p>Not available.</p>	
<b>20. Data revision</b>	<b><u>Top</u></b>
<b>20.1 Revision policy</b>	
<p>Circular on the Revision Policy of ELSTAT 2013.  <a href="http://www.statistics.gr/portal/page/portal/ESYE/BUCKET/General/ELSTAT_Revisions_Policy_22_5_2013_EN.pdf">http://www.statistics.gr/portal/page/portal/ESYE/BUCKET/General/ELSTAT_Revisions_Policy_22_5_2013_EN.pdf</a> </p>	
<b>20.2 Revision practice</b>	
<p>The Revision Policy of ELSTAT is followed.</p>	

<b>21. Statistical processing</b>	<b><u>Top</u></b>
<b>21.1 Source data</b>	
Sampling results, of chemical parameters, in selected lakes of Greece.	
<b>21.2 Frequency of data collection</b>	
Biennial.	
<b>21.3 Data collection</b>	
The data are collected from administrative sources and namely: the Special Secretariat for Waters (EGY) of the Ministry of Environment, Energy and Climate Change (YPEKA), as well as the Ministry of Rural Development and Food (YPAAT).	
<b>21.4 Data validation</b>	
Once collected, the data, are checked and the annual average values of the chemical parameters, are estimated, on the basis of the methodology set out by the Directive 2009/90/EC. Afterwards, the data are transmitted to the authority that is responsible for the sampling, which checks the results and then transmits them to Eurostat for further checks, before their publication.	
<b>21.5 Data compilation</b>	
Once collected, the data, undergo logical checks and the annual average values of the chemical parameters are estimated, on the basis of the methodology, set out by the Directive 2009/90/EC. Afterwards, the data are tabulated and published.	
<b><u>21.5.1 Imputation-rate</u></b>	
No imputed values for variables are used.	
<b>21.6 Adjustment</b>	
None	
<b><u>21.6.1 Seasonal adjustment</u></b>	
There is no seasonal adjustment on the survey data.	
<b>22. Comment</b>	<b><u>Top</u></b>