2014 Freshwater EIONET workshop  
Review of water data flows and data handling processes

*26-27 June 2014, Copenhagen*

An [agenda of the meeting](http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-eionet-freshwater-workshop-2014/freshwater-eionet-workshop-2014/draft-agenda-eionet-freshwater-workshop-2014), including links to all background documents and presentations can be found in the workshop folder on the EIONET Forum[[1]](#footnote-1). The agenda and a participant list are given in the annexes 1 and 2.

## Summary of presentations, action points and conclusions

### Presentations, introduction:

*Chair: Anita Künitzer, UFZ, ETC-ICM coordinator*

***Objective:*** The focus of this workshop is to discuss, understand and agree on the development of State-of-Environment (SoE) content and the technical quality assurance (QA) /quality control (QC) procedures, and to find the best way to clean up and quality check all reported SoE data. Aligning SoE information with the WFD structure will improve upcoming integrated assessments of status and pressures. The WFD has a better spatial coverage (as all water bodies are reported), but SoE have a better time coverage (yearly data instead of every 6 years as for the WFD) and also provide real monitoring data on continuous numeric scales instead of only status classes. See **Presentation by Beate Werner, EEA: “**[**Objectives and introduction**](http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-eionet-freshwater-workshop-2014/freshwater-eionet-workshop-2014/presentations/0_opening-session/1-objectives-and-introduction-eea)**”**

***Policy needs:*** While WFD reporting is also linked to compliance checking (see new [WFD guidance](http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-eionet-freshwater-workshop-2014/freshwater-eionet-workshop-2014/background-documents/draft-water-framework-directive-reporting-guidance)), all reporting streams collect information that will be used to ensure that policy developments are knowledge-based. WISE, with its multiple sources of data and information, including the SoE reporting, should allow better integration of water quality and quantity concerns into other policies. See **Presentation by Joachim Capitão, DG Environment: “**[**SoE reporting and policy needs**](http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-eionet-freshwater-workshop-2014/freshwater-eionet-workshop-2014/presentations/0_opening-session/2-introduction-dg-environment)**”**

### Presentations, session 1, Content quality - Review of SoE data:

*Chair Beate Werner, head of EEA water group*

***Changes needed for SoE-data (general for all SoE reporting streams):*** Countries must ensure that water body codes for SoE stations match WFD water body codes. EEA must ensure that the SoE reporting sheets and data dictionaries are better linked.

***Specific changes for nutrients, organic matter, and biology:*** No major changes needed, but fish in rivers may be included to capture biological impacts of hydromorphological pressures.

***Specific changes for hazardous substances:*** Determinants should be the same as the WFD pollutants used to assess chemical and ecological status. Disaggregated data, level of quantification (LOQ)-values, national environmental quality standards (EQS) values for rivers and lakes and threshold values for groundwater should all be reported.

See **Presentation by Sandra Richter, UFZ, ETC-ICM: “**[**Content quality – Review of SoE data**](http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-eionet-freshwater-workshop-2014/freshwater-eionet-workshop-2014/presentations/1-content-quality-review-soe-data/1-3-overview-changes-soe-reporting-guidance)**”**

***Specific changes for SoE-emissions:*** SoE list of “preferred” substances will be updated according to the new EQS directive and frequently monitored chemical substances. Source oriented approach of emission categories is kept, but better aligned with WFD list of pressures. Riverine load can be reported as a new parameter in SoE emissions data flow. See **Presentation by Bo Jacobsen, EEA, with input from Hana Prchalova, Cenia, ETC-ICM: “**[**Review of SoE data; Update of SoE reporting sheets for emissions following the WFD reporting guidance**](http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-eionet-freshwater-workshop-2014/freshwater-eionet-workshop-2014/presentations/1-content-quality-review-soe-data/4-update-soe-reporting-sheets-emissions)**”**

***Specific changes for SoE water quantity (water abstractions):*** The reporting parameters are explored in detail and possibly will be revised based on the requirements for key products like water accounts (WA) and indicators like the improved Water Exploitation Index (WEI+). Streamlining parameters with the OECD/Eurostat joint questionnaire has to be continued. See **Presentation by Evangelos Baltas, NTUA, ETC-ICM: “**[**SoE water quantity reporting**](http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-eionet-freshwater-workshop-2014/freshwater-eionet-workshop-2014/presentations/1-content-quality-review-soe-data/5-update-soe-reporting-sheets-water-quantity)**”.**

### Presentations, session 2: Restructuring data processing: Technical developments at EEA

*Chair: Stefan Jensen, EEA Data and Information (MDI) Programme, Head of SEIS and reference data group*

***Changes needed to improve data processing:*** To improve the SoE reporting the countries are asked to check the results of the automatic QA, correct problems and redeliver corrected data; download and use only the newest version of the WQ Reporting Tool, use only the latest versions of data delivery templates downloaded from the Data Dictionaries, and reply on critical QA issues to achieve the highest evaluation score. Data requests have to be simplified and remain stable, and different reporting streams have to be streamlined while using strict deadlines. EEA works on an increased automation of data processing, implicating that only files that pass a basic quality check will be uploaded. Communication with countries will be improved, including faster 2nd level checks, data harmonization, gap filling and data merging in a common work space. See **Presentation by Hermann Peifer with input from Marek Staron, EEA MDI programme: “**[**Restructuring data processing: What needs to be changed?**](http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-eionet-freshwater-workshop-2014/freshwater-eionet-workshop-2014/presentations/2_restructuring-data-processing/2-prospective-changes-reporting)**”**

***Changes needed to improve data collection and use:*** There’s an increasing demand for data collection for a multitude of uses, including map-based information. This demand requires cross-sector data interoperability. A common data workspace is needed to facilitate data collection, analyses, visualisation and sharing. A workspace is a folder structure, files and databases glued together by scripts, tools or manual actions described in a log book. The normal procedure for SoE freshwater data flows is that member countries send data to EEA who does the QA/QC of them. The ETC, EEA and EC consultants analyse the data and produce reports, maps or other products. The EEA works towards more visual tools (e.g. maps or graphics) as these are easier to understand than scripts. About the geolocation of sensitive national data, EEA will decrease the coordinates to one decimal in longitude and latitude not to disclose any details that are not available at the national level. See **Presentation by Jan Bliki, EEA MDI Programme: “**[**Principle of common work space (CWS) and issues related to geo-location of sensitive national data – consequences for reporters**](http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-eionet-freshwater-workshop-2014/freshwater-eionet-workshop-2014/presentations/2_restructuring-data-processing/3-principle-common-work-space)**”.**

***Changes needed to make WISE data compliant with INSPIRE:*** MSs are obliged to deliver data and services based on INSPIRE requirements from 2017/2020 onwards. EEA will map all spatial objects in the WFD reporting guidance for 2016 according to INSPIRE concepts. Several tasks phased over July 2014 until autumn 2015 are defined for the WFD implementation pilot in the end the data content for reporting under the WFD will be INSPIRE conformant. The final deliveries are guidances and schemas integrated in the normal workflow for WFD reporting. A similar process for WISE SoE data (by ETC-ICM in 2015) will have to be done to dentify spatial entities (monitoring stations, groundwater bodies) and relevant attributes which have relations to INSPIRE data specifications. European water reference data sets will be established as a result.See **Presentation by Stefan Jensen, EEA MDI programme: “**[**Towards WISE INSPIRE compliance: Agreed steps, further roadmap**](http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-eionet-freshwater-workshop-2014/freshwater-eionet-workshop-2014/presentations/2_restructuring-data-processing/4-towards-wise-inspire-compliance)**”**

### Presentations, session 3: SoE quality assurance – country fiches/fact sheets

*Chair: Beate Werner, EEA*

**Aim, content and process for country fact sheets:** The aim of the country fact sheets is to improve Waterbase content: ensure that “high priority” determinants are reported; improve the spatial and temporal coverage of data; clean-up and correct errors in the data reporting/processing. Country fact sheets will be prepared for all EEA countries. The country fact sheet is meant as a help on national level to coordinate the SoE reporting with the WFD and other directives reporting.

The content will be overviews of QA issues for the following data: Reporting obligations from European Water Directives, Overview on WFD reporting and EIONET priority data flows – SoE data (Waterbase) (statistics and maps), including:

* Water quality and biology data:
* Rivers and Lakes (Nutrients, organic matter and physico-chemical determinants, Biology, Hazardous substances )
* Groundwater (Nutrients, organic matter and physico-chemical determinants, hazardous substances)
* Emissions
* Water Quantity
* Matching of stations/water bodies

The main problems with the SoE data are:

* Reporting of some high priority / preferred determinants sometimes stopped;
* There has been a change in some of the determinants in the databases;
* There have been some changes in stations coding;
* “Missing time series”;
* Not all RBDs are covered with reporting;
* Low density of monitoring stations in some RBDs, countries (not representative)
* Data on groundwater nutrients sometimes reported aggregated on groundwater body level, sometimes on stations level;
* Often it is not possible to link SoE stations with WFD water body or stations.

***Time schedule for ETC production of country fact sheets:*** EEA is aiming at preparing fact sheets for all countries during autumn 2014, and replies are requested from countries during winter/spring 2015. Waterbase will be corrected to be ready for the next cycle of new data deliveries in autumn 2015.

See **presentation by Sandra Richter, UFZ, ETC-ICM: “**[**Introduction to country fiches /fact sheets. Examples for water quality, biology and emissions**](http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-eionet-freshwater-workshop-2014/freshwater-eionet-workshop-2014/presentations/3_soe-quality-assurance-country-fiches/preparation-country-fact-sheets)**”**

**Water quantity issues to be included in the country fact sheets:**

* Limited amount of data submitted by some MS, regarding the number of parameters reported.
* Coarse spatial and temporal scale of the reported data and also the time series of data usually cover a small number of years, so LTAA values cannot be derived.
* The reported format is occasionally different than the proposed one.
* Point measurements’ coordinates are in a number of cases displaced and are located outside the country’s border or declared RBD.
* There are logical inconsistencies (in water accounts etc.) of the reported data, or between data reported under different data flows. (e.g. SoE-OECD/EUROSTAT)
* There are “missing pieces” (at RBD level) literally in every parameter regarding the spatial coverage of Europe

An increase of MS participation must be achieved in the number of parameters reported, the temporal and the spatial scale, as well as the reported years. There is a need for data format homogeneity, for streamlining of definitions among different organizations and for development of innovative products (like WEI+).

**See Presentation by Evangelos Baltas, NTUA and ETC-ICM: “**[**Examples on country fact sheets for water quantity**](http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-eionet-freshwater-workshop-2014/freshwater-eionet-workshop-2014/presentations/3_soe-quality-assurance-country-fiches/country-fiches-water-quantity-issues)**”**

**WFD and SoE Station matching/mismatching:** To improve station matching between Waterbase and WFD database there is a need to link station codes, station names and water body codes. The current situation is that there are 67200 river monitoring stations in the WFD database and ca. 15000 in Waterbase. Only 4875 river stations could be matched. No match was found for Denmark, Spain, Greece, Hungary. WFD data can also be linked to data from other directives, e.g. Bathing water, if the water body code is the same.The stations in the different WISE-databases will be linked to Water bodies. Common stations in WFD monitoring and WISE-SoE will be identified. Common station description can be used for all databases allowing more in depth freshwater assessments.See **Presentation by Peter Kristensen, EEA: “**[**Station matching – linkages between Waterbase and WFD database**](http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-eionet-freshwater-workshop-2014/freshwater-eionet-workshop-2014/presentations/3_soe-quality-assurance-country-fiches/3-linking-different-bases)**”**

**Country experiences with SoE and WFD reporting (Sweden, Cyprus and Portugal):**

See presentations by:

**Lars Sonesten, SLU, Sweden: “**[**SoE and WFD reporting – some Swedish experiences**](http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-eionet-freshwater-workshop-2014/freshwater-eionet-workshop-2014/presentations/3_soe-quality-assurance-country-fiches/4a-country-presentation-sweden)**”**Sweden has one central database with metadata (VISS) as central node with common codes for all stations linked to all the other national or regional databases with the real monitoring data. Sweden is now building a new national station registry, including also terrestrial data (WFS-T). The country fact sheet is useful for QA of Waterbase data and future fact sheets showing assessment products (maps, graphs) are welcomed as well.

**Gerald Dörflinger, Water development department, Cyprus:** “[**SoE and WFD reporting – some experiences from Cyprus**](http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-eionet-freshwater-workshop-2014/freshwater-eionet-workshop-2014/presentations/3_soe-quality-assurance-country-fiches/4b-country-presentation-cyprus)**”**One national database (CYMOS) holds most of the monitoring data, where the SoE data are a subset of WFD data. Cyprus considers it important to achieve “green smileys” (scoring criteria for the SoE priority data flows) within the limitations of its resources.

**Sofia Batista, Portuguese Environment Agency, Portugal: “**[**SoE and WFD reporting – some experiences from Portugal**](http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-eionet-freshwater-workshop-2014/freshwater-eionet-workshop-2014/presentations/3_soe-quality-assurance-country-fiches/4c-country-presentation-portugal)**”**Portugal’s performance of EEA priority inland waters data flows was poor before 2006. Nutrient data, hazardous substances data and biology data has been reported since 2012 and EQRs for biology will be reported as soon as classification system is completed. Many “WFD monitoring stations” (surveillance monitoring and operational monitoring stations) were included in the SoE reporting. Water quantity and emissions will only be reported from the RBMPs every 6 years.

## **Action points and recommendations: A s**ummary from the break-out-sessions and plenary discussions

#### Break-out session 1:

### **1) Link in between WFD and SoE data in assessments**

Most important indicators?

Recommendations to the European level:

* To keep the different SoE freshwater dataflows. Reporting of water quantity should be changed by reducing the number of parameters, focusing on those in the OECD/Eurostat Joint Questionnaire. Water scarcity and droughts are most relevant in Southern Europe and as a consequence no data are available in some of the other countries.
* The assessment needs should be defined before changing the determinants in the data flows. EEA should list potential products and the data needs for them to support the different policy processes. The list of relevant parameters will depend on the products to be produced and on legally required parameters.

**What is the added value of SoE data relative to WFD data?**

Recommendations to the member countries:

* Some data required by WFD are also requested for SoE. For the WFD compliance check, the SoE data already reported can be used, so there’s no need to report the same data twice.

Recommendations to the European level:

* Ensure a stable and well defined reporting.
* To avoid misinterpretation of data, information on use of data and on products is important.
* List of products and parameters with prioritization should be defined.
* Ensure consistency between SoE and WFD guidelines. A condensed overview of SoE and WFD code lists and determinants would be useful.
* Assessments should be made in dialogue with the countries.
* Water statistics reporting to Eurostat should be further streamlined with SoE water quantity and emissions reporting, e.g. water abstractions and UWWT.

### **2) Technical link in between WFD and SoE data**

Inconsistent coding of Water bodies, SoE stations and problems for linking of data

Recommendations to member and cooperating countries

* Use the same name and code for the water body in each SoE reporting flow, and well as for WFD reporting.
* If a station-Id is changed, then countries should report both the old and new station code. The same should be done for the water body code if the old water body has been re-delineated.

Recommendations to the EEA

* Work towards a split in the data flow: 1) station reporting; 2) measurements (time series)
* There should be a common station description across all data flows and the field name for the water body code in the SoE stations table should be the same as for WFD.
* Response time on validation must be faster.
* Data reporters should get access to all datasets.
* No free text should be allowed in the code lists (please use XML, GML and UN/CEFACT for units).
* Please include in the country fact sheets a list with all monitoring stations and water body codes, and information if station is used for surveillance or operational monitoring.
* An overview list of stations which are currently not linked with WFD would be helpful.

**How can the representativity of SoE stations for hot spots /problem areas be improved?**

Recommendations to member and cooperating countries

* The selection of stations should reflect the proportion of the different status classes in each RBD (to be consistent with WFD data). More new stations should be added to the monitoring networks and be reported to SoE to ensure representativity of status data and geographic coverage, including stations in all RBDs.
* To get a representative picture of the pressures, impacts and state of rivers and lakes, countries are strongly encouraged to report data from both operational and surveillance monitoring stations.
* Consider keeping the monitoring of a sub-set of operational stations that are used for SoE reporting, even when/if they achieve good status. If stations are abandoned EEA cannot use SoE data to measure improvements. Therefore time series should be kept to avoid gaps.

Recommendations to the EEA

* Countries need a clear set of criteria on which monitoring stations should be reported (representativity of status classes, operational and surveillance monitoring stations).

### **3) Improved business process for SoE/WFD data handling**

How to improve data quality by new QA procedures?

Recommendations to the EEA

* Do not change reporting templates and data dictionaries every year.
* There’s a wish for a visualization tool for the reported data before uploading to CDR to get a quick and short overview about the reported data. Then reporting mistakes can be discovered by countries before uploading the data.
* To show a small table with the time series during the import of data so that it becomes clear if there is a break in a time series or not.
* Use unique identifiers for parameters and units. Use existing standards when specifying units (For example the UN-CEFACT code list for units).
* The data provider should get an email notification whenever a data manager in ETC/EEA provides feedback to a data delivery in the CDR.
* Quicker QA must be done; and related to what was reported before (not only looking at the last year delivery). Then a break in a time series can be discovered and handled.
* One envelope per country per year would be better; being allowed to re-open and change to correct mistakes.
* There’s a need for an enhanced outliers detection and trend analysis.
* One unified code list across all data flows would be welcomed.
* Code list must be kept consistent and IT-friendly (e.g. UTF-8, common date/time formats, batch uploads).
* Knowledge base or FAQ documentation for common understanding (e.g. chemical formulas) is needed.

What is the added value of the SoE reporting guidance compared to the Data Dictionaries?

Recommendations to the EEA

* Countries prefer a condensed document with no repetitions, merging the information in the SoE Reporting Guidance (why and what) and the Data Dictionaries (DD) (how). Avoid redundancy in the DD.

#### Break-out session 2:

### 1) How can we further develop and use country fiches (fact sheets)?

Recommendations to the EEA

How can the country fiches be improved to better reflect and help to solve quality issues?

* Countries should be involved in making the country fact sheets;
* Please separate between data technical issues and other issues;
* Give a synopsis for the major problems in at the top of the country fact sheet;
* Key problems should be presented in aggregated form in the country fact sheet, do not only present numbers (of stations, determinants, years etc.);
* Please do some QA of the fact sheets before you send them out. Do not ask questions to the countries that the ETC has to reply to;
* Establish a communication sheet to store the back-and-forth communication;
* Change the name of the country fact sheet. Make them more descriptive (e.g. platform of communication and data improvement).

What is the added value of EEA publishing country overviews in form of fact sheets for all 39 countries?

* Focus on the first phase being the clean-up and wait with the second phase where the assessments are shown;
* The country fact sheets could include data products; such as time series – for self checking by the country;
* The countries want to be involved in the second phase if the fact sheets are to be published and country review is requested.

Under which conditions should disaggregated data in waterbase published by EEA , and what is the value added?

* In general, countries agree that disaggregated data for hazardous substances are published, although some participants have to check this at their home agency. This question was repeated by writing to the relevant NRCs in all countries shortly after the meeting.

### 2) How can country fiches help in the clean-up of the SoE datasets?

Recommendations to the EEA

How far are NRCs willing to be actively involved in cleaning the SoE datasets and improve their quality in autumn 2014?

* Country fact sheets is welcome as a tool to clean the data;
* All countries are willing to be actively involved in this process;
* Instructions from EEA/ETC are needed how to correct, redeliver data; further follow up: this information has to be provided in a cover letter together with the country fact sheets;
* Give a time table for countries so they can prepare! Deadlines must be clear, so that countries can organize the process:
  + Set short deadline after sending out country fact sheets for countries to give feedback if and when they could provide changes (one to two month);
  + Different deadlines are needed for the more simple changes that can be quickly fixed, but longer time is needed to reply to more complicated problems;
  + All country fact sheets have to be ready during autumn 2014, so the time normally used for the yearly reporting can be used for answering the questions in the country fact sheets.

What are the reasons that some countries stop reporting on some parameters?

* Gaps in the time series can be due to a change in the responsible agencies and/or person-in-charge, a change in methodology for chemical analysis (e.g. COD Cr vs. COD Mn)

## Conclusions and way forward:

**Presentation by** **Beate Werner, EEA: “**[**Conclusions and way forward (next steps)**](http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-eionet-freshwater-workshop-2014/freshwater-eionet-workshop-2014/presentations/4_concluding-session/conclusions-and-next-steps)**”**

Session 1 Water data flows converging SoE -review

WFD – SoE alignment: the country examples show it’s on its way! The SoE data review should be product oriented to guide the reduction and streamlining of parameters with WFD and other directives. There will not be a change in the [SoE reporting guidance](https://circabc.europa.eu/sd/a/230cff2b-457e-4436-b9a2-3a467d181d5e/SOE%20guidance%20document%20final%20by%20NFPs%20Feb%202009.pdf), but revised data dictionaries with documentation linked to SoE quality fact sheets.

Session 2 on restructuring data processing

The technical developments needed to improve the business process for data flow from NRCs into the EEA common work space require the suspension of reporting exercise in 2014. Station data (spatial data) will be decoupled from the reporting of measurements and update the station information in advance. Only data in the correct format and by the cut-off date will be accepted by EEA in future. This is a necessity when more inspire conformant services are developed at EEA for automatic harvesting of SoE data deliveries from the CDR.

A common workspace with all WISE data will be developed and the data dictionaries (DDs)will be simplified and kept stable for several years. More standards (like ISO) will be used when updating the DDs as well as common code lists for all freshwater reporting streams.

Session 3 on country data quality fact sheets

The ETC and EEA will prepare country fact sheets for all 39 EEA countries. NRCs are asked to actively support the ETC in autumn 2014/early 2015 to improve the quality of their SoE datasets for priority parameters by commenting on the questions listed in the country fact sheets and by resubmitting improved datasets if necessary. The decision to work on updates of the country fact sheets including some assessments and the public availability of them will only be decided in 2015. The new NRC structure should further facilitate and ease the communication

**Annex 1: Final meeting agenda**

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| **European Environment Agency** |  |

***Developing an efficient and sustainable way forward on the Eionet water data flows: Review of water data flows and data handling processes***

**2014 Freshwater Eionet Workshop**

**26-27 June 2014, Copenhagen**

**Final draft agenda**

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| ***1st Day – 26 June*** | | |
| **Time** | **Title** | **Presentation and discussion** |
| **10:30 – 11:30** | **Welcome and introduction**  **Chair: Anita Künitzer, EEA**   * Welcome by EEA,  (see also background document: http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-eionet-freshwater-workshop-2014/freshwater-eionet-workshop-2014/wise-soe-data-flows-and-priority-data-flows-water-area-2014-2016)   + Objectives and rational of the workshop   + Overview on EEA developments on water reporting and needs for a possible suspension of the priority data flow in 2014 and reporting 2013 data only in 2015   + Update on new NRC structure   Presentation: <http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-eionet-freshwater-workshop-2014/freshwater-eionet-workshop-2014/presentations/0_opening-session/1-objectives-and-introduction-eea>   * DG ENV recent developments and needs   + Needs of SOE information for policy assessments and policy integration;   + WFD reporting guidance for 2016, reviewed and restructured   Presentation: <http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-eionet-freshwater-workshop-2014/freshwater-eionet-workshop-2014/presentations/0_opening-session/2-introduction-dg-environment> | Beate Werner (EEA)      Joaquim Capitão (DG ENV) |

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| **11:30 – 13:00** | **Session 1: Content quality: Review of SoE data**  **Chair: Beate Werner, ETC**  The presentations will show a proposal, how the data request can be simplified, and what can be changed to jointly analyse WFD and SoE data in 2016/2017.  (see also background documents:   * <http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-eionet-freshwater-workshop-2014/freshwater-eionet-workshop-2014/background-documents/content-related-soe-review> * <http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-eionet-freshwater-workshop-2014/freshwater-eionet-workshop-2014/background-documents/draft-water-framework-directive-reporting-guidance> * <http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-eionet-freshwater-workshop-2014/freshwater-eionet-workshop-2014/background-documents/reporting-guidance-for-soe-data>)  1. overview of changes to SoE reporting guidance 2. update of SoE reporting sheets for nutrients/organic pollution in rivers, lakes and groundwater 3. update of SoE reporting sheets for hazardous substances (rivers, lakes, groundwater)   Presentation: <http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-eionet-freshwater-workshop-2014/freshwater-eionet-workshop-2014/presentations/1-content-quality-review-soe-data/1-3-overview-changes-soe-reporting-guidance>   1. update of SoE reporting sheets for emissions following the WFD reporting guidance on emissions   Presentation: <http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-eionet-freshwater-workshop-2014/freshwater-eionet-workshop-2014/presentations/1-content-quality-review-soe-data/4-update-soe-reporting-sheets-emissions>   1. update of SoE reporting sheets for water quantity following the WFD reporting guidance on water quantity   Presentation: <http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-eionet-freshwater-workshop-2014/freshwater-eionet-workshop-2014/presentations/1-content-quality-review-soe-data/5-update-soe-reporting-sheets-water-quantity>  ***Plenary questions and discussion*** (discussion in break-out groups at the end of day 1) | | Sandra Richter (ETC)  Bo N. Jacobsen (EEA)    Evangelos Baltas (ETC) |
| **13:00 -14:00** | ***Lunch break*** | | |
| **14:00-15:30** | **Session 2: Restructuring data processing: Technical developments at EEA**  **Chair: Stefan Jensen, EEA**   1. A principle overview about the changes in EEA data work and approaches to data handling and QA 2. Prospective changes in the reporting, restructuring of data handling processes and communication improvements – consequences for reporters  Presentation: <http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-eionet-freshwater-workshop-2014/freshwater-eionet-workshop-2014/presentations/2_restructuring-data-processing/2-prospective-changes-reporting> 3. Principle of common work space (CWS) and issues related to geo-location of sensitive national data – consequences for reporters  Presentation: <http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-eionet-freshwater-workshop-2014/freshwater-eionet-workshop-2014/presentations/2_restructuring-data-processing/3-principle-common-work-space> 4. Roadmap for INSPIRE check of WFD compliance and possible future steps of INSPIRE check for SoE information.  Presentation: <http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-eionet-freshwater-workshop-2014/freshwater-eionet-workshop-2014/presentations/2_restructuring-data-processing/4-towards-wise-inspire-compliance>   ***Plenary discussion***   * What does the EEA restructuring of data handling mean for countries, what is needed in future? * How can the suspension of the data exchange in 2014 help resource wise to do the necessary? * How can there be a mutual support of the process by countries and EEA?   ***Introduction to the first break-out session*** | | Hermann Peifer (EEA)    Jan Bliki (EEA)  Stefan Jensen (EEA) |
| **15:30 – 16:00** | Coffee break | | |
| **16:00 – 17:30** | ***First break-out session***  **Chairs: NRCs, Rapporteurs: ETC** *Green group: 00.20 (Falk Hilliges, DE), Red group: 0.10 (Jan-Hendrik Voet, BE),  Blue group: conference room (Andrea Májovská, SK)*   1. What is the best way to link WFD and SoE data in assessments?    * What are the most important indicators to assess the state of the environment at national and at European level (covering SoE as well as WFD and other directives)?    * What is the value added from SoE data compared to WFD data for the status assessment of Europe’s water environment? 2. What is the best way to (technically) link WFD and SoE data?    * How to solve the problem of inconsistent coding and missing water body relations between SoE and WFD stations.    * How is the RBD information from the WFD (e.g. for significant pressures) be helpful for the SoE assessment in the WFD context.    * Are SoE data rather related to surveillance monitoring or operational monitoring and how should hot spots and problem areas be covered? How should the reporting guidance deal with data from surveillance and operational monitoring? Does this choice has consequences for the time series available so far? 3. How can we improve the business process for SoE/WFD data handling?    * How can we improve the quality of data and time series by new automated QA procedures and stricter more upfront located QA rules?    * How are the consequences for a stricter, more upfront QA seen by data managers at national level when uploading data?    * What is the added value of the SoE reporting guidance compared to the Data Dictionaries? | | |
| **19:00** | **Joint dinner** | | |
| ***2nd Day – 27 June*** | | | |
| **09:00 – 11:00** | **Session 3: SoE quality assurance – country fact sheets**  **Chair: Beate Werner, EEA**  (see also draft country fiches: <http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-eionet-freshwater-workshop-2014/freshwater-eionet-workshop-2014/background-documents/draft-country-fiches>)   1. introduction about country fact sheets and examples of country fact sheets on water quality and emissions  Presentation: <http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-eionet-freshwater-workshop-2014/freshwater-eionet-workshop-2014/presentations/3_soe-quality-assurance-country-fiches/preparation-country-fact-sheets> 2. examples of country fact sheets (water quantity)  Presentation: <http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-eionet-freshwater-workshop-2014/freshwater-eionet-workshop-2014/presentations/3_soe-quality-assurance-country-fiches/country-fiches-water-quantity-issues> 3. station matching – linkages between Waterbase and WFD databases  Presentation: <http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-eionet-freshwater-workshop-2014/freshwater-eionet-workshop-2014/presentations/3_soe-quality-assurance-country-fiches/3-linking-different-bases> 4. 3 presentations on national linkages between SoE and WFD databases   Presentations: **Sweden**: <http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-eionet-freshwater-workshop-2014/freshwater-eionet-workshop-2014/presentations/3_soe-quality-assurance-country-fiches/4a-country-presentation-sweden>  **Cyprus**: <http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-eionet-freshwater-workshop-2014/freshwater-eionet-workshop-2014/presentations/3_soe-quality-assurance-country-fiches/4b-country-presentation-cyprus>  **Portugal**: <http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-eionet-freshwater-workshop-2014/freshwater-eionet-workshop-2014/presentations/3_soe-quality-assurance-country-fiches/4c-country-presentation-portugal>   ***Plenary questions***  ***Introduction to the second break-out sessions*** | Sandra Richter (ETC)  Evangelos Baltas (ETC)    Peter Kristensen (EEA)  Lars Sonesten (SE),  Gerald Dörflinger (CY) and Sofia Batista (PT) | |
| **11:00 – 11:30** | Coffee break | | |
| **11:30-13:00** | ***Second break-out session***  **Chairs: NRCs, Rapporteurs: ETC** *Green group: 00.20 (Falk Hilliges, DE), Red group: 0.10 (Jan-Hendrik Voet, BE),  Blue group: 8.2.30 (Andrea Májovská, SK)*   1. What is the business process in countries to ensure QA/QC in national WFD/SoE databases?    * Explanations by NRCs in relation to the EEA practices 2. How can we further develop and use country fact sheets?    * How can the country fiches be improved to better reflect and help to solve quality issues?    * What is the added value of annual country overviews in form of those fact sheets for all 39 countries be published by EEA? (use on national level, SOER, communication with EEA and neighbor countries)    * Under which conditions should disaggregated data in waterbase published by EEA , and what is the value added?    * Should the current country fact sheets contain data products (e.g. see example like in BWD country fiches, contribute to EEA indicators from a country perspective) beside overviews on data availability? Which data products are high on your priority list? 3. How can country fact sheets help in the clean-up of the SoE datasets?    * How far are NRCs willing to be actively involved in cleaning the SoE datasets and improve their quality in autumn 2014?    * What are the reasons that some countries stop reporting on some parameters?    * How can the quality problem described exemplary in the first country fact sheets be improved?    * How do we ensure consistency in linking SoE stations with WFD stations and WFD water bodies? | | |
| **13:00 -14:00** | ***Lunch break*** | | |
| **14:00 – 15:30** | **Session 4: Concluding session**  **Chair: Anita Künitzer, ETC**   * Report back from the breakout sessions by the rapporteurs   Presentations: **Red group:** <http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-eionet-freshwater-workshop-2014/freshwater-eionet-workshop-2014/presentations/4_concluding-session/1a-report-breakout-session-red-group>  **Blue group:** <http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-eionet-freshwater-workshop-2014/freshwater-eionet-workshop-2014/presentations/4_concluding-session/1b-report-breakout-session-blue-group>  **Green group:** <http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-eionet-freshwater-workshop-2014/freshwater-eionet-workshop-2014/presentations/4_concluding-session/1c-report-breakout-session-green-group>  **Plenary discussion** | | Evangelos Baltas, Olaf Büttner, Sandra Richter (ETC) |
| **15:30-16:00** | **Conclusions and way forward.**  Next steps for SOE data flows, integration with WFD reporting and quality assurance, possible time and work plan  Presentation: <http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-eionet-freshwater-workshop-2014/freshwater-eionet-workshop-2014/presentations/4_concluding-session/conclusions-and-next-steps> | | Beate Werner |
| **16:00** | End of meeting | |  |

**Annex 2: Meeting Participants**

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| --- | --- | --- |
| **Surname** | **Name** | **Country/Affiliation** |
| Altoja | Kristi | Estonia |
| Baltas | Evangelos | ETC/ICM |
| Banou | Styliani | Greece |
| Batista | Sofia | Portugal |
| Blard-Zakar | Adeline | France |
| Bliki | Jan | EEA |
| Büttner | Olaf | ETC/ICM |
| Caka | Ernisa | Albania |
| Capitao | Joaquim | European Commission |
| Doran | Timothy | United Kingdom |
| Dorflinger | Gerald | Cyprus |
| Dubois | Aurelie | France |
| Dumitrache | Florentina | Romania |
| Egilson | David | Iceland |
| Förster | Jürgen | European Commission |
| Gorova | Rositza | Bulgaria |
| Grofova | Renata | Slovakia |
| Hansen | Rikke Bjerring | Denmark |
| Hasani | Hasan | Kosovo |
| Hiliges | Falk | Germany |
| Jacobsen | Bo | EEA |
| Jensen | Stefan | EEA |
| Johnsen | Åsa | Sweden |
| Jovicic | Milorad | Serbia |
| Kristensen | Peter | EEA |
| Künitzer | Anita | ETC/ICM |
| Kusšar | Ursška | Slovenia |
| Majovska | Andrea | Slovakia |
| Marciniewicz-Mykieta | Malgorzata | Poland |
| Mehmeti | Merita | Kosovo |
| Mikołajczyk | Anna | Poland |
| Mitikka | Sari | Finland |
| Mohaupt | Volker | Germany |
| Néry | Fernanda | EEA |
| Peifer | Hermann | EEA |
| Pfeiffer | Manuela | Germany |
| Piorkowski | Piotr | Poland |
| Piva | Francesca | Italy |
| Pumputyte | Audrone | Lithuania |
| Richter | Sandra | ETC/ICM |
| Rosland | Dag | Norway |
| Rotaru | Nicoleta-Marilena | Romania |
| Samuelsson | Kristina | Sweden |
| Schaffner | Monika | Switzerland |
| Scheidleder | Andreas | Austria |
| Schiereck | Marloes | The Netherlands |
| Solheim | Anne Lyche | ETC/ICM |
| Sonesten | Lars | Sweden |
| Symeonidis | Panagiotis | Greece |
| Szomolanyi Ritvayne | Maria | Hungary |
| Thorén | Ann-Karin | Sweden |
| Vanneuville | Wouter | EEA |
| Vannevel | Rudy | Belgium |
| Vircava | Ligita | Latvia |
| Voet | Jan Hendrik | Belgium |
| Webster | Peter | Ireland |
| Werner | Beate | EEA |

1. <http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-eionet-freshwater-workshop-2014/freshwater-eionet-workshop-2014> [↑](#footnote-ref-1)