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| *Freshwater Eionet Workshop 2015**18-19 June 2015, EEA, Copenhagen**Final Minutes* |  |

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| ***Minutes (final) from*** | Freshwater Eionet Workshop 2015 |

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| ***VENUE***  | European Environment Agency, Copenhagen, Kongens Nytorv 6Conference Room |
| ***DATE*** | 1st day, Thursday 18 June 2015, Conference Room (10:00 – 17:00)2nd day, Friday 19 June 2015, Conference Room (09:00 – 16:00) |
| ***PARTICIPANTS:*** | see Annex 1 |
| ***CHAIR:*** | Beate Werner and Anita Künitzer |
| ***ANNEXES:*** | Annex 1: List of participants Annex 2: Agenda |
| ***Presentations and meeting documents on Eionet forum:*** | <http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-freshwater-eionet-workshop-2015/copenhagen-freshwater-eionet-workshop-2015> |

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| **Welcome and introduction** |
| Anita Künitzer, Manager of the European Topic Centre on inland, coastal and marine waters (ETC/ICM) and Beate Werner, Head of the Water Group at the European Environment Agency (EEA), opened the meeting and welcomed the participants to the annual Freshwater Eionet Workshop. 48 representatives from EEA Member Countries, the ETC/ICM (8), EEA (5) and DG Environment (1) participated in the meeting (see Annex 1 for full list of participants). Beate Werner highlighted the fact that it has been almost 20 years that Eionet workshops are being convened. Last year’s Eionet workshop concluded that the data flows need to be reviewed and that therefore the data call in 2015 would be postponed to the autumn in order to allow time for the review and discussion of the results at this year’s workshop. Important upcoming deliverables are the State of Water Report, which is scheduled to be finalised by the end of 2017.Therefore, in 2016 the major work will focus on the WFD assessments. The data flows of other water directives will also be discussed in the course of the workshop. The aim is to ensure that all the data and the assessments are consistent and provide sound and reliable results. Anita Künitzer explained the agenda and this was adopted (see Annex 2). |
| **Session 1: Assessing the status of European waters** |
| **1a) Overview of the WFD reporting process and its relevance both for compliance and state of water assessments – Joaquim Capitão, European Commission, DG Environment** |
| Joaquim Capitão (JC) provided an overview on the preparation of the WFD reporting process at DG ENV. He highlighted the problem of the previous assessment in 2012 that it was difficult to assess the texts of the River Basin Management Plans (RBMPs) and that for the assessment in 2016 the focus will be more on the analysis of the data reported (see substantially revised CIS WFD Reporting Guidance, adopted end of 2013 by Water Directors). In terms of the near future the reporting exercise starting 22 March 2016 is now very important. The CIS Reporting Guidance is currently in the testing phase, see Eionet Data Repository (CDR): <http://cdr.eionet.europa.eu/help/WFD/WFD_521_2016>. The Reporting Guidance was also aligned as much as possible with the requirements of INSPIRE. One part of the assessment of the RBMPs will be done by EEA – on status and pressures. The COM will do the compliance checking of the RBMPs. The focus will be on the whole chain of implementation following the DPSIR (driver – pressure – state – impact – response) approach. A review of the WFD is due by the end of 2019. A number of studies are ongoing to this effect but the main basis for the review will be the results of the 2nd RBMPs. The COM will aim to have the necessary assessments ready by the end of 2018. |
| **1b) Presentation of water results in the SOER2015 (synthesis, FW briefings, FW country comparisons, updated CSIs and WISE maps) – Peter Kristensen, EEA**Questions to NRCs:How are you using the **EEA water reports**, **WISE interactive map and data viewers**? Are they useful for your purposes? How can they be improved?Are the **assessments of status and pressures on European waters** useful in the present form? How can we improve the assessments? How can the presentations of country comparisons be improved?Are the **water** i**ndicators** addressing the right issues? Are issues missing? Should we include additional indicators? Are we using the best data |
| Peter Kristensen presented some results on water from the SOER 2015 Synthesis Report. The relevant data for these analyses comes from the data reported by the EEA Member Countries (from the CDR). So the quality of the data and the completeness is very important. There are a number of reports that are published by the EEA including some new water products. Peter Kristensen demonstrated some of the water indicators available on the EEA website and the functions for filtering the data. For more details, see his presentation. *Discussion of the questions:*Question 1: Visualisations are used mainly for policy makers in the Netherlands, e.g. the interactive maps. Where the map shows no data this is also a trigger for ensuring that this data becomes available. In addition, differences in assessing eutrophication in freshwater and the marine becomes apparent and this provides incentive to align these assessments. In Germany, the results of the Bathing Water assessments are used. The data on hazardous substances is very useful (figures and graphs) for the national level. It would be useful to have such presentations as Peter Kristensen’s available on the web, maybe even a regular newsletter. In Sweden, the interactive maps are not used. Some of the graphs are used for presentations. Croatia uses the figures for educational purposes, e.g. students. In Cyprus the maps are not used very much. A newsletter would be very useful, could be 2-3 times a year. It is a bit unfortunate that the data provided by EEA becomes available so much later than at the national level (up to 2 years). Ireland congratulated EEA on the amount of information and type of information it provides. The information is primarily in order to compare national versus European data. Question 2: Germany suggested having fact sheets for the monitoring sites, e.g. with information if the status is improving or not (in the interactive maps). Austria pointed out that some results are presented as percentages of the number of water bodies, it would be better to relate the information to the area of the water body. Both ways have their pros and cons. Germany suggested linking the static diagrams with the explanations. The diagrams for themselves are not self-explanatory (example: visualization of mercury in Sweden). Austria said it would be good to show European trend and national trend in one figure. This will be in the next update. Germany suggested defining who the target group for these figures and graphs is. Belgium suggested that the audience is actually quite broad, the informed audience and the general public including journalists. It may be good to get comments from the users in order to find out what the user would like to see. Question 3: Germany mentioned that hydromorphology and hazardous substances is missing and therefore there is a bit of a mismatch between the different pressures. Switzerland encouraged EEA to provide more information on hazardous substances. In addition, it would be interesting to see the relationship between the indicators, e.g. using the DPSIR model. At the moment they are quite isolated. Belgium commented on information on the knowledge base e.g. on the 7th EAP, natural capital etc. but do we have indicators on water and food systems? It is important to show the relationships between different policies. Water efficiency indicators are a good example of how this can work. Germany followed up on the idea of presenting relationships between indicators, e.g. results could be structured by topics, e.g. on hazardous substances which would then show results on status and pressures.  |
| **Session 2: Revision of the WISE SoE reporting and resulting changes in the SoE data request** |
| *Background documents:* *2a\_Content related SoE review - Maintenance and content development of data flows (SoE and WFD)*[*http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-freshwater-eionet-workshop-2015/copenhagen-freshwater-eionet-workshop-2015/background-documents/2a\_content-related-soe-review\_final*](http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-freshwater-eionet-workshop-2015/copenhagen-freshwater-eionet-workshop-2015/background-documents/2a_content-related-soe-review_final)*2b\_Content related SoE review – Annex 1: Lists of determinants to keep and to drop in future reporting for the different reporting streams*[*http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-freshwater-eionet-workshop-2015/copenhagen-freshwater-eionet-workshop-2015/background-documents/2b\_annex\_content-related-soe\_review\_final*](http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-freshwater-eionet-workshop-2015/copenhagen-freshwater-eionet-workshop-2015/background-documents/2b_annex_content-related-soe_review_final)*2c\_ Content review on existing WISE SoE Water Quantity data flow**http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-freshwater-eionet-workshop-2015/copenhagen-freshwater-eionet-workshop-2015/background-documents/2c\_content-related-soe-review\_water-quantity\_v5\_3* |
| A presentation of the results of the SoE content review was made by Ursula Schmedtje, supported by Evangelos Baltas on the results for Water quantity, and Benoît Fribourg-Blanc on the results for hazardous substances. |
| **2a) Emissions and water quality overview** |
| The presentation ([Session\_2\_SoE\_content\_review\_overview\_US.ppt](http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-freshwater-eionet-workshop-2015/copenhagen-freshwater-eionet-workshop-2015/prsentations/session_2_soe_content_review_overview_us/download/en/1/Session_2_SoE_content_review_overview_US.ppt)) provided an overview on the SoE content review. Water indicators are derived from the data collected and used for different purposes. The review used a prioritisation scheme with a set of embedded criteria that included requirements from EU legislation, EEA uses and needs. The review of the situation was presented by groups of determinands according to the main impacts on water.The discussion highlighted concerns with regard to dropping nitrate from emissions in particular with regard to diffuse sources. Furthermore, it was highlighted that annual reporting mean values is problematic, e.g. oxygen saturation is an important parameter for assessing eutrophication, but it would be better to report concentration values on a monthly or seasonal time scale. Instead of the “drop” category some determinants should be modified so that they are more targeted for assessments like acidification instead of pH. There was a proposal to get data on atmospheric deposition on coastal areas directly from EMEP modelling. This data is already being widely used by OSPAR and HELCOM mainly for the open seas. |
| **2b) Water quality - hazardous substances** |
| The presentation ([Session\_2\_results-Hazardous-Substances-v2.pptx](http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-freshwater-eionet-workshop-2015/copenhagen-freshwater-eionet-workshop-2015/prsentations/session_2_results-hazardous-substances-v2/download/en/1/Session_2_results-Hazardous-Substances-v2.pptx)) showed the situation as regards reported data and the proposed approach for prioritisation focussed on 6 key groups of hazardous substances.In the discussion it was concluded that the substances listed in the various EU legislations on water should be added in the 2b document of the SoE review. Since there are very many substances, some participants requested a selection of preferred hazardous substances as provided before. This will be done together with a consistent list of parameters. The development of a hazardous substance indicator was requested. While the types of indicators to be developed would be interesting to know, the ETC work of this year will focus on presenting the collected data in a consistent way with a more user-friendly platform instead of the comprehensive hazardous substances report. It was also clarified that the summary information in table 8 of the SoE Content Review (document 2a) is linked to the more detailed table of the annex (document 2b) listing substance by substance. The low reporting rate on emissions of hazardous substances is explained by the recent implementation of the emission inventories by Member States. The grouping of substances, together with the list of individual substances will allow to make better assessments by knowing exactly, which substances are covered in each reported data set. It was requested that the products derived from the reported Hazardous substances should be defined. The products that are currently targeted are a European overview, the situation in RBDs and the % of water bodies affected by hazardous substances. The countries would like to discuss with EEA the methodology to build indicators on hazardous substances before reporting hundreds of pesticides.  |
| **2c) Water quantity** |
| The presentation ([Water Quantity Content review JUNE 2015-1.ppt](http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-freshwater-eionet-workshop-2015/copenhagen-freshwater-eionet-workshop-2015/prsentations/water-quantity-content-review-june-2015-1/download/en/1/Water%20Quantity%20Content%20review%20JUNE%202015-1.ppt)) reminded the audience of the key goals of the review with a focus on water accounts, the WEI+ and the need for a balanced approach between support to WFD implementation, water quantity information and an optimum temporal and spatial scale for reporting. Then the proposed changes were presented on point and areal data and on water abstraction, water balance and water use aspects.In the discussion, the data collection been done by Eurostat was mentioned and it was requested to avoid double reporting. Countries asked EEA to clarify the situation and explore ways to extend the cooperation with Eurostat with pre-filling of the Joint Questionnaire IWA with SoE data. While the reported data do not have the same level of detail and coverage, countries are also invited to report consistently. For the WFD, Member States have to report significant pressures, including pressures on water quantity and the data collection is targeted to this. The ETC is also invited to explore the possible use of international databases such as JRDC but this requires the need to solve confidentiality issues. |
| **Session 3: Changes in the business process for the next WISE SoE data request (new data collection model, changes in Data Dictionaries, changes in QA, smiley criteria, etc.)** |
| *Background documents:* *3a\_Report on summary of the consultation of quality fact sheet (QFS)*[*http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-freshwater-eionet-workshop-2015/copenhagen-freshwater-eionet-workshop-2015/background-documents/3a\_summary\_of\_consultation\_of\_quality\_fact\_sheets\_final*](http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-freshwater-eionet-workshop-2015/copenhagen-freshwater-eionet-workshop-2015/background-documents/3a_summary_of_consultation_of_quality_fact_sheets_final)*3b\_The new WISE SoE data 2015 collection model – streamlining SoE data models and reporting process*[*http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-freshwater-eionet-workshop-2015/copenhagen-freshwater-eionet-workshop-2015/background-documents/3b\_wise\_soe\_2015\_data\_collection\_model\_v8*](http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-freshwater-eionet-workshop-2015/copenhagen-freshwater-eionet-workshop-2015/background-documents/3b_wise_soe_2015_data_collection_model_v8)*Table on Water quality:* [*http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-freshwater-eionet-workshop-2015/copenhagen-freshwater-eionet-workshop-2015/background-documents/3b\_wise\_soe\_2015\_data\_collection\_model\_changes\_waterquality*](http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-freshwater-eionet-workshop-2015/copenhagen-freshwater-eionet-workshop-2015/background-documents/3b_wise_soe_2015_data_collection_model_changes_waterquality)*Table on Spatial data:* [*http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-freshwater-eionet-workshop-2015/copenhagen-freshwater-eionet-workshop-2015/background-documents/3b\_wise\_spatial\_data\_collection\_2015-06-14*](http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-freshwater-eionet-workshop-2015/copenhagen-freshwater-eionet-workshop-2015/background-documents/3b_wise_spatial_data_collection_2015-06-14) |
| A presentation was made by Peter Kristensen on the outcome of the country consultation on Quality Fact Sheets. This was followed by presentations on the revision of the WISE SoE data request regarding time series of water quality by Olaf Büttner and regarding spatial SoE and WFD data by Alberto Telletxea from Bilbomatica and Fernanda Maria Timóteo Gonçalves Néry. Participants then divided themselves into 3 break-out groups in which they discussed 3 pre-defined questions:1. Do you have comments on the SoE content review?
2. Is the new WISE SoE data request feasible?
3. Is the timing for the next WISE SoE data request reasonable?

The outcomes of the replies to these quested were afterwards reported in plenary as presentations and commented. |
| **3a) Outcome of the consultation on Quality fact sheet** |
| The presentation ([Session 3a Outcome of the consultation of QFS final draft.pptx](http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-freshwater-eionet-workshop-2015/copenhagen-freshwater-eionet-workshop-2015/prsentations/session-3a-outcome-consultation-qfs-final-draft/download/en/1/Session%203a%20Outcome%20of%20the%20consultation%20of%20QFS%20final%20draft.pptx)) summarised the outcome of the country consultation on Quality Fact Sheets (QFS). Peter Kristensen thanked the countries for very active participation in the consultation and their numerous replies to the questions.In the discussion, it was clarified that in case the countries want to report corrected data from the past they have to use the new reporting structure. |
| **3b) Next WISE SoE data request** |
| The presentation ([Session\_3b\_SoE\_datamodel\_time\_series.pptx](http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-freshwater-eionet-workshop-2015/copenhagen-freshwater-eionet-workshop-2015/prsentations/session_3b_soe_datamodel_time_series/download/en/1/Session_3b_SoE_datamodel_time_series.pptx)) informed that for SoE time series data on water quality the data models of SoE rivers, lakes, and groundwater have been merged into a harmonised data model.In the discussion, the new data model was positively commented by countries. It was clarified that the discussion about the content of the list of determinands (especially hazardous substances) is independend from the new data structure. The related changes will be reflected very soon in the data dictionary (DD).Future developments will aim for including the transitional waters into the model. The data models will be further harmonized with the coastal and marine SoE model. Information on the connection between the Water quantity dataflow and the Eurostat joint questionaire could be made available in the EEA vocabularies (e.g. <http://dd.eionet.europa.eu/vocabularyconcept/reportnet/obligations/184>).The presentation ([Session 3b\_Spatial data SoE and WISE 2.0 - EIONET Workshop - 2015-06-18.pptx](http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-freshwater-eionet-workshop-2015/copenhagen-freshwater-eionet-workshop-2015/prsentations/session-3b_spatial-data-soe-and-wise-2.0-eionet-workshop-2015-06-18/download/en/1/Session%203b_Spatial%20data%20SoE%20and%20WISE%202.0%20-%20EIONET%20Workshop%20-%202015-06-18.pptx)) informed, how spatial should be reported. The reporting under SOE is streamlined with the WFD reporting (use of WFD stations, waterbodies, RBDs). The spatial data should in principle be reported prior to the tabular data from the 2016 data request onwards.In the discussion, it was clarified that a GIS Guidance is in place already at the WFD resource pages (<http://cdr.eionet.europa.eu/help/WFD/WFD_521_2016>). This Guidance document describes and explaines the spatial datamodel with all the INSIRE elements in detail. Comments on the spatial data guidance can be made through wfd.helpdesk@europa.eea, but there will be no big changes made anymore. EEA/ETC were requested to make the QC/QA question catalogues available for the countries. EEA informed that the WISE SoE data call will start in October 2015. Feedback to the data model should happen via an agreed written procedure (see conclusions in session 5) via wisesoe.helpdesk@europa.eu. EEA and ETC are planning to have the new data model ready and available for country consultation as follows: water quality, emissions and spatial data by end of June and water quantity by mid July. A test phase for countries will be available from 21 September to 2nd October 2015. |
| **3c) Break-out session on revision of SoE reporting and 2016 assessment** |
| **Break out group 1:**Chair: Monika Schaffner, Rapporteur: Anita Künitzer (Miroslav Fanta), EEA staff: Beate Werner. The group commented as follows to the 3 questions ([Session\_3c\_break-out session 1\_v2.ppt](http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-freshwater-eionet-workshop-2015/copenhagen-freshwater-eionet-workshop-2015/prsentations/session_3c_break-out-session-1_v1/download/en/2/Session_3c_break-out%20session%201_v2.ppt)):**Question 1: Do you have comments on the SoE content review?**Table 4: Determinands for oxygen consuming substances: * **Ammonium and total ammonium** should be the same substance called differently in countries. Merge them if it is really the same substance. Update the definition.
* **BOD 5 and BOD7** should stay separate with a preference for BOD5. Nowadays more BOD7 is measured. Countries should report what they really measure in the meta data.
* **Oxygen:** oxygen is important, oxygen saturation is the better parameter than dissolved oxygen and should be kept
* **DOC** is used for the bioavailability of the heavy metals as supporting parameter. This would only be for a potential future analysis. Change from ‘dropped’ to could ‘keep’.
* Consequence of ‘must, should, could’ for the smiley criteria should be clarified and communicated. **Invertebrate EQR**: is measuring the ecosystem effect of organic pollution. Therefore it should be kept with reporting, but once in 3 to 6 years. It might not be measured in non-EU countries (smiley criteria). *(ETC/ICM comment to the minutes: The determinand is specific to impact types, e.g. "InvertebrateEQR\_G" for general degradation (including organic pressure) or "InvertebrateEQR\_H" for hydromorphology. There is currently not an invertebrate determinand defined specifically for organic pollution.)*

Table 6: nutrient enrichment* Ammonium: merge the 2 names into 1

. Total oxidized nitrogen is a sum of nitrate and nitrite nitrogen, is not the same parameter.* Total oxidized nitrogen should be downgraded to ‘should’ and merge it with nitrate.
* Kjeldahl Nitrogen is decreasing in importance and is fine with ‘could keep’.
* Which units should be used: mg/l in gw, mg/N for r+l in DD.

Table 8 on Hazardous substances and annex* Which EU legislation has been included, add to table in annex.
* The watch list substances should not be included.
* Have a written procedure on commenting on the substances.
* Include RBD specific substances if they are regulated in more than 4 countries.
* Cross comparison with WFD HS list is still ongoing.
* Keep the very long list and every country should report the substances of problems in his country instead of reducing the list now. Develop the assessment based on substance groups, e.g. toxicity indicators, showing all the substances in that group. Don’t drop substances now.
* ‘Must and should’ is prioritization from the EEA side and should not influence the national monitoring.

Table 14 emissions to water* Based on the legislation (E-PRTR), we keep the table as it is.

Table 10: pollution from different pressures* Fish EQR frequency is the same issue as for invertebrates, to be reported with WFD reporting.
* Table is ok. The need for European level pH and alkalinity needs to be checked.

Table 12: on water quantity* There is a separate document on Water Quantity which will be uploaded to the meeting folder on forum now for written consultation. The parameters have to be commented on in the written procedure.

**Question 2: Is the new WISE SoE data request feasible?****Question 3: Is the timing for the next WISE SoE data request reasonable?*** Discuss questions 2 and 3 together:
* New DD: 1 reporting obligation (envelope) for r/l/gw will make it complicated since several authorities are involved (in Sweden and other countries). Have separate reporting obligations (envelopes) to avoid the ‘one blocks all problem’? (Nery to confirm).
* Tour de table:
	+ Some countries will not be able to deliver data this year because
		1. WFD work occupying the experts
		2. reformatting due to new data model, consultant work, GIS experts needed (DE, UK)
	+ In addition the point on joint spatial data reporting under WFD and SoE was raised, which also might cause delays.
	+ In summary: it is difficult to judge if the timing of reporting is ok, since the new reporting formats need to be seen first.
		- UK will not be able to report this year, since experts are occupied by the WFD
		- IRE will be able to report by Dec.
		- DK needs to see the new formats first to estimate the timing for reporting
		- SK wants to get the new water quantity tool to be able to judge how much work it needs.
	+ Keep the envelopes flexible not to block the upload due to missing parameters or missing water category.
	+ Guidance on the new reporting (e.g. new identifiers) is needed for countries.
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| **Break out group 2:**Chair: Falk Hilliges, Rapporteur: Ursula Schmedtje, EEA staff: Fernanda Nery. The group commented as follows to the 3 questions ([Session\_3c\_break-out session 2\_corr.ppt](http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-freshwater-eionet-workshop-2015/copenhagen-freshwater-eionet-workshop-2015/prsentations/session_3c_break-out-session-2_corr/download/en/1/Session_3c_break-out%20session%202_corr.ppt)):**Question 1: Do you have comments on the SoE content review?**General issues* It is unclear what the reporting templates will finally look like.
* Information is missing how determinants are linked with legal requirements and final products
* Due to national monitoring strategies data is not always available for all determinants e.g. RBSP. Focus is on WFD determinants.
* Are data provision agreements with country specific agreements on determinants the solution?
* Choice of monitoring stations varies between countries (representative vs WFD) -> WFD data has better spatial coverage, SoE better time series
* Aggregated vs disaggregated data – MS need more information how disaggregated data is used.

Discussion of determinants **(**views of MS are preliminary)**Oxygen consuming substances*** BOD: most MS prefer TOC but it is necessary to keep BOD since long time series (since 1992) and there are also regional differences.
* O2: some MS would prefer to keep O2 but at monthly level.
* Invertebrates EQR\_G (as well as all biological determinants) need further explanation. Countries want to know which metrics will be used. MS can report these specific metrics if they want to. It is an option. Is it sufficient to report the overall result per BQE (not metric)? *(ETC/ICM comment to the minutes: Yes, it is possible to report the overall result per BQE, based on several metrics (representing the same impact type). For example, PhytoplanktonEQR\_E for Norway is composed of 4 different metrics. But it may not be possible to calculate a combined EQR value for several metrics, if these metrics are to combined after calculation of normalised EQR (nEQR). If this is the case, it's possible to report nEQR instead of EQR (alternatively, to report only the status class).*

**Nutrients*** Macrophytes in lakes: it appears difficult to separate impacts from hydromorphology and eutrophication -> this should be tested
* Cyanobacteria biomass: Not clear how many MS could report this. There is information form the BWD but only as proportion not as biomass.

**Other pressures*** Fish\_EQR: explanation needed how this will be used. Then possibly it will be reported.

**Water quantity*** If there are no problems, why should we report it?
* EEA has an interest to minimise the gaps. It is necessary to have a complete coverage either at MS level, RBD or sub-unit level. Possibly report once for baseline but no annual reporting.

Process* MS would like to provide comments. Discussion necessary at national level.
* Can EEA provide a platform for feedback to SoE Content Review so that there can be a discussion? EEA will check the possibilities.
* Proposal: to present examples of assessments in Eionet workshops 2016 and 2017. In order to have profound discussion diagrams should be provided in advance so they can be discussed first in the MS.

**Question 2: Is the new WISE SoE data request feasible?****Question 3: Is the timing for the next WISE SoE data request reasonable?*** 10 countries in the group: RO, BE, AT, SE, DE, BG, CS, NL, SI and XK
* Most countries answered that they will do their best to report according to the new reporting templates and the deadline given.
* It is difficult to assess how much time it will take for adjusting to the new reporting structure (can take 3 months after data dictionaries are received). It depends on many people.
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| **Break out group 3:**Chair: Jan Voet,Rapporteur: Olaf Büttner, EEA staff: Peter Kristensen. The group commented as follows to the 3 questions ([Session\_3c\_break-out session\_3-final.ppt](http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-freshwater-eionet-workshop-2015/copenhagen-freshwater-eionet-workshop-2015/prsentations/session_3c_break-out-session_3-final/download/en/1/Session_3c_break-out%20session_3-final.ppt)):**Question 1: Do you have comments on the SoE content review?**Table 1 (Water quality (nutrients and oxygen consuming substances) * Norway, Sweden: not monitoring BOD -> cannot be reported
* Good explanation and visibility of changes in the documents should be provided, example:
* Clarification: Total Ammonium is the same as Ammonium
* Connection between WFD QEs and the determinands requested in WISE SoE should be visible in the documentation

Table 2 (Biology in rivers and lakes)* Explain the abbreviations InvertebrateEQR\_A,G,E,H
* (A – Acidification, G- General, E –Eutrophication, H - Hydromorphology)
* Inconsistency between the documents (2b and 3b) regarding TotalPhytoplanktonBiomass (2b> drop and 3b it is handled as other substances)

Table 3 (HazSubs in Surface Water)* Link between emission table (EQS directive) and HazSubs in rivers and lakes is missing or not clear enough. EEA to improve and clarify
* Clarification: the determinands are not mandatory; only if they are available they should be reported
* Hazardous substances: not reported does not always mean “not measured”;
* Hopefully, after assessment of the 2cd RBMPs we can reduce the list to less than 50 substances – related to the most common Priority substances and River Basin Specific Pollutants causing poor status

Table 4 (Water quality (nutrients and hazardous substances) determinants in groundwater)* General remark: should we use the information that determinand X was not reported from country Y because it is not relevant in this specific country
* Nitrite, phosphorus, Total pesticides should not be dropped (is now in Annex 2 of GW directive)

Table 5 (Water quantity determinants)* Water balance, water abstraction, water use (3 main blocks)
* It is linked with WFD (WEI water exploitation index)
* Parameters were reduced, but new parameters came in
* No longer ask for LTAA
* Ensure harmonization between EEA and Eurostat
* Eurostat has to confirm that no longer parameters (ca. 45) are used for prefilling of the JQ; than the parameters will be dropped

Table 6 (Emissions determinants)* What parameters are related to point sources and what to diffuse sources? This should be indicated in the list.
* Provide methodology for calculating inventories for HazSubs: there is a WFD Guidance document available; We provide this in the minutes
* Can we really use the data from WFD for European analysis because of spatial and temporal differences? Methodology question

**Question 2: Is the new WISE SoE data request feasible?*** Yes, in general it is feasible, in particular for time series on water quality and spatial data
* Reporting GW and SW together may be difficult; reporting in different files possible?
* Water quantity: there may be problems in reporting (SE, NO, PL)
* DE will not report WQ
* No biology: TR, MK
* Delayed reporting of emissions: PL
* Challenge of parallel reporting: WFD and WISE SoE

**Question 3: Is the timing for the next WISE SoE data request reasonable?*** For most of the countries the timing for reporting in 2015 is reasonable
* For the next years: reporting from June - August is (very) difficult, October – December is better
 |
| **3d) Reports back from break-out sessions in plenary** |
| The above listed outcomes of the break-out groups were presented in plenary and commented and corrected by participants as listed above.In the discussion, the following was mentioned:* The document on calculation of inventories for emissions is not easy to read. It is more suitable for rivers and lakes and load calculations. In the WFD guidance chapter 9, the emission guidance is harmonized with the SoE guidance by using ‘significant pressures’.
* EEA/ETC was requested to work on the list of emissions (HazSubs) to make the connection to the directives
* Clarification is needed on the blocking procedures in the Reportnet quality assurance: how strictly will they be used by EEA? EEA will provide a test area for the countries; the quality control can be done in advance (In 2015, a testing phase for reporting with the new data model is planned from 21 September to 2 October 2015).
* How many reporting obligations (RODs) should we have in future? There should be one reporting obligation “Water quality”. The countries should use the opportunity to streamline their own reporting and coordinate this on national level. At the envelope level: it is possible to submit different files in an envelope (e.g. ground waters and rivers and lakes); if all files are in place a responsible person should close the envelope.
* EEA is expecting the reporting of the countries according to the time table.
 |
| **Session 4: Information on other WISE data requests than SoE** |
| *Background document:* *4\_Plans for assessment of European waters for the next State of European waters report*[*http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-freshwater-eionet-workshop-2015/copenhagen-freshwater-eionet-workshop-2015/background-documents/plans-assessment-european-waters-next-state-european-waters-report*](http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-freshwater-eionet-workshop-2015/copenhagen-freshwater-eionet-workshop-2015/background-documents/plans-assessment-european-waters-next-state-european-waters-report) |
| The presentations in this session informed about ongoing developments under the various water directives and the plans of EEA and Eionet to include data reporting of Water directives into the Eionet priority data flows:1. Presentation on NFP priority data flow group and Eionet roles by Beate Werner ([4.1 EPDF wg for water NRCs.pptx](http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-freshwater-eionet-workshop-2015/copenhagen-freshwater-eionet-workshop-2015/prsentations/4.1-epdf-wg-water-nrcs/download/en/1/4.1%20EPDF%20wg%20for%20water%20NRCs.pptx)): The Eionet priority data flows are being restructured by an Eionet/EEA working group. In June criteria are prepared to determine which data flow is core; until the end of August consultation with NFPs, NRCs, and ETCs will take place. In September, a draft final proposal will be prepared, in October discussed and on 1st November submitted to the EEA Management Board for approval.
2. Presentation on WFD assessment by Peter Kristensen ([Session 4 Assessing the status of European water - final draft.pptx](http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-freshwater-eionet-workshop-2015/copenhagen-freshwater-eionet-workshop-2015/prsentations/session-4-assessing-status-european-water-final-draft/download/en/2/Session%204%20Assessing%20the%20status%20of%20European%20water%20-%20final%20draft.pptx)): In 2016 and 2017 EEA will prepare a report on the state of water (see Art 18 of WFD) based on the 2nd RBMP data and other data flows. It will give an overview of status, pressures and impacts (update of the baseline – state 2009-2015); There are a lot of challenges. One of them is to show differences of water body status from 1st to 2nd RBMP, to describe the success of measures that have been implemented and relationships between pressures and impacts. The final EEA report will be prepared at the end of 2017. It can be delayed if not all countries report on time.
3. Presentation on Floods Directive (FD) by Wouter Vanneuville ([Session 4 Assessing the status of European water - final draft.pptx](http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-freshwater-eionet-workshop-2015/copenhagen-freshwater-eionet-workshop-2015/prsentations/session-4-assessing-status-european-water-final-draft/download/en/2/Session%204%20Assessing%20the%20status%20of%20European%20water%20-%20final%20draft.pptx)): There are a lot of synergies between FD and WFD. The first reporting for FD gives information on past floods and risk to the environment. It gives information on hydromorphological alteration. A flood impact database is being developed by EEA/ETC. In 2015, the ETC prepares a report on floods, floodplains, vulnerability and flood risk, which will be then published by EEA.
4. Presentation on Bathing Water Directive by Lidija Globevnik ([EIONETWorkshop\_18.6.2015\_Session 4\_BWD\_LGb.pptx](http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-freshwater-eionet-workshop-2015/copenhagen-freshwater-eionet-workshop-2015/prsentations/eionetworkshop_18.6.2015_session-4_bwd_lgb/download/en/1/EIONETWorkshop_18.6.2015_Session%204_BWD_LGb.pptx)): Reporting is done by Member States each year. Two microbiological parameters are reported (cfu/100 ml) as well as evidence of cyanobacteria proliferation; the share of poor or satisfied bathing waters stays over the years more or less unchanged; first investigations of how data from SoE and UWWTD reporting can be integrated with BWD data are presented by Lidija showing seasonality of BWD data as a whereas other data represent yearly values.
5. Presentation on Drinking Water Directive by Jeanette Völker ([4\_DWD\_reporting\_exercise\_2011\_2013\_v3.ppt](http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-freshwater-eionet-workshop-2015/copenhagen-freshwater-eionet-workshop-2015/prsentations/4_dwd_reporting_exercise_2011_2013_v3/download/en/1/4_DWD_reporting_exercise_2011_2013_v3.ppt)): Reporting takes place every three years for large water supply zones, but no spatial data are yet reported which makes presentation of the data in a map viewer difficult. In many countries there are a lot of small water supply zones, that have low monitoring frequencies and which should be included into the reporting.
6. Presentation on Urban Waste Water Treatment Directive by Petra Ronen ([Session 4 Urban Waste Water Treatment Directive reporting\_v2.ppt](http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-freshwater-eionet-workshop-2015/copenhagen-freshwater-eionet-workshop-2015/prsentations/session-4-urban-waste-water-treatment-directive-reporting_v2/download/en/1/Session%204%20Urban%20Waste%20Water%20Treatment%20Directive%20reporting_v2.ppt)): There are many products based on UWWTD data published in the EEA website (database, map viewer, data viewer). Reporting takes place every two years with tabular and spatial data. The next data request will be launched in December 2015. The data model and DD are being updated for it as well as the web tool and the spatial data guidance.

In the discussion, the following items were raised:* Regarding the presentation on the WFD assessment, a similar presentation on the WFD assessment had been given at the May meeting of WFD Common Implementation Group (CIS) Working Group Data and Information Systems (DIS). EEA clarified that there is close cooperation between DG ENV and EEA on the assessment of the results from the 2nd RBMPs plans. DG ENV will evaluate the individual RBMPs and Member States while EEA will use the results for its European state of water assessments. Both the WG DIS and the Eionet NRCs will be consulted on draft results and assessments to ensure wide acceptance of the end product.
* Regarding the presentation on the UWWTD, a question was raised about the responsibility for compliance check of UWWTD and level of openness of these results to public. It has been explained that the European Commission is responsible for compliance and this is also done by them with consultant support. EEA/ETC is using these results and provides permanent data management support and data products (map viewers, data viewers). It also uses data from UWWTD for reports on pressure and status of European waters.
* Regarding the presentation on the BWD, concern was expressed about the formula for the assessment of bathing water quality. ETC/ICM was asked to use a more appropriate formula. EEA and ETC/ICM are aware of the problem and know this concern. The issue has already been discussed at the last Bathing Water working group (in 2014) and will be discussed at the next Bathing Water working group meeting in December 2015 as well as the final reference paper for revisions of BWD. The updated formula will be used when approved by the Bathing Water Committee.
* Further regarding the presentation on the BWD, it was pointed out that it is not appropriate to compare data on the population with the state of bathing waters. It is also not appropriate to compare the data on microbiological parameters in bathing waters with emissions of nutrients as reported under the UWWTD due to different approaches and methodologies. It was explained that in the presentation, ETC/ICM only demonstrated the potential of integration of data from multiple sources. ETC/ICM is looking for possible links between the pressures and the state of bathing water and is aware of the problems of such integration. In future development more regional and specific approach will be used.
 |
| **Session 5: Conclusions and way forward** |
| Beate presented the conclusions of the meeting ([Session 5 conclusions v2.pptx](http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-freshwater-eionet-workshop-2015/copenhagen-freshwater-eionet-workshop-2015/prsentations/session-5-conclsions-v2/download/en/2/Session%205%20conclsions%20v2.pptx)):Content related SoE reviewThe background document ‘*2a\_Content related SoE review - Maintenance and content development of data flows (SoE and WFD)*’ needs to be revised by the ETC following the comments made by participants during the plenary session and break out groups (e.g. better clarification needed on ‘Must, Should, Could’ in terms of smiley criteria Data Dictionary and reporting frequency (WFD alignment); clarify in which directive a parameter is required; the scope of list of hazardous substances needs further development by sticking to legal requirements (the watch list is only ‘Could’) . The more detailed document on Water quantity ‘*2c\_ Content review on existing WISE SoE Water Quantity data flow’* needs to be made available on Forum. The timing for commenting by countries on the finalised parameter lists should be as follows:* Water quantity: ETC to upload the background document 2c on water quantity to forum by 26.June; country comments by 31. July.
* Water quality: revised document available on forum by 15. July; country comments by 31. July.
* Emissions and hazardous substances: revised documents available on forum by 15. July, comments by 31.July.

All comments should be sent to SoE helpdesk, using subject “SoE Water Quality review”, or “SoE water emissions review” or “SOE water quantity review”.Follow-up after Eionet Workshop: The revised documents were sent out for country comments on 23 July under the link: <http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-freshwater-eionet-workshop-2015/copenhagen-freshwater-eionet-workshop-2015/background-documents/soe-content-review-document-and-annex-20150721> with a request to send comments and any questions for clarification to wisesoe.helpdesk@eionet.europa.eu.before 7 August 2015.New WISE SoE data 2015 collection model and reporting processReporting in 2015 will be a first round in the new scheme allowing testing and improving. The next reporting round will then start in Summer 2016 and will be fully operational. A test phase for the reporting will be available from 21. Sept. to 22.October 2015. A test platform will be available and be used as a “training and testing” area.The timing for commenting by countries on the finalised data models and data dictionaries via Helpdesk (wisesoe.helpdesk@eionet.europa.eu) should be as follows: * Water quality data model: The data dictionary and excel template for water quality reporting will be uploaded by 23 June for commenting. Comments can also be added to the Excel file (among the background documents) and send to wisesoe.helpdesk@eionet.europa.eu until 3 July;
* Spatial data model: same procedure as for water quality; comments by 3 July; EEA will discuss comments within ENV/WFD process;
* Emissions data model: Revised version available by end June; Excel file will be provided; comments by 15. July;
* Water quantity data model: revised version available by 15. July, Excel file will be provided; comments by 31.July;

Follow-up after Eionet Workshop: The new data dictionary for water quality (pdf and excel table) were sent out for commenting on 29 June with a deadline of 7 July.The new data dictionary for emissions (web link) was sent out for commenting on 28 August with a deadline of 15 September.The new data dictionary for water quantity will be sent out for commenting in early September with a deadline of two weeks for comments. |

**Annex 1: List of participants**



**List of participants:  15-88 (IPA) and 89-NO-EEA**

Meeting title:  Freshwater Eionet Workshop
Start:  18.06.2015 09:00
Finish:  19.06.2015 17:00

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**Annex 2: Agenda**

**Freshwater Eionet Workshop, 18-19 June 2015,**

**European Environment Agency, Copenhagen, Kongens Nytorv 6
Conference Room**

**Final Agenda (version 4.0)**

**Meeting documents**:

Documents and presentations have been uploaded to the Forum meeting folder at:
<http://forum.eionet.europa.eu/nrc-eionet-freshwater/library/copenhagen-freshwater-eionet-workshop-2015/copenhagen-freshwater-eionet-workshop-2015>

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| ***1st day, Thursday 18 June 2015******Conference Room (10:00 – 17:00)*** |
| **Time**  | **Item no.** | **Agenda item** | **Presenters** |
| 09:30 - 10:00 |  | Registration and coffee |  |
| 10:00 – 10:30 |  | Welcome and introduction | Beate Werner/Anita Künitzer |
| 10:30 – 11:30 | 1. | **Session 1: Assessing the status of European waters**Chair:Anita Künitzer |  |
|  |  | Overview of the WFD reporting process and its relevance both for compliance and state of water assessments | Joaquim Capitão |
|  |  | Presentation of water results in the SOER2015 (synthesis, FW briefings, FW country comparisons, updated CSIs and WISE maps). Questions to NRCs:How are you using the **EEA water reports**, **WISE interactive map and data viewers**? Are they useful for your purposes? How can they be improved?Are the **assessments of status and pressures on European waters** useful in the present form? How can we improve the assessments? How can the presentations of country comparisons be improved?Are the **water** i**ndicators** addressing the right issues? Are issues missing? Should we include additional indicators? Are we using the best data?Discussion  | Peter Kristensen |
| **11:30 – 11:50** | ***Coffee break***  |
| 11:50 – 13:00 | 2. | **Session 2: Revision of the WISE SoE reporting and resulting changes in the SoE data request** Chair:Anita Künitzer*Background documents 2a and 2b on Content related SoE review - Maintenance and content development of data flows (SoE and WFD)* |  |
|  |  | Presentation of the results of the SoE content review by Ursula Schmedtje, supported by Benoit Fribourg-Blanc on the results for hazardous substances and Evangelos Baltas on the results for Water quantity,Discussion | 1. Ursula Schmedtje, 2. Benoit Fribourg-Blanc3. Evangelos Baltas, |
| **13:00 -14:00** | ***Lunch break*** |
| 14:00 – 14:30 |  | Session 2 continued |  |
|  | 3. | **Session 3: Changes in the business process for the next WISE SoE data request (new data collection model, changes in Data Dictionaries, changes in QA, smiley criteria, etc.)**Chair:Beate Werner*Documents:* *3a\_Report on summary of the consultation of quality fact sheet (QFS)* *3b\_The new WISE SoE data 2015 collection model – streamlining SoE data models and reporting process* |  |
| 14:30 – 15:00 | 3.a | **3.a Outcome of the consultation on Quality fact sheet**Discussion | Peter Kristensen |
| **15:00-15:30** |  | ***Coffee break*** |  |
| 15:30 – 17:30 | 3.b | **3.b Next WISE SoE data request**1. Merging of SoE rivers, lakes, groundwater and resulting data model;
2. Reporting of spatial data prior to tabular data; Spatial elements (use of WFD stations, waterbodies, RBDs)
3. Data model for WFD spatial data

Discussion | 1. Olaf Büttner 2. Fernanda Néry 3. Bilbomatica |
|  |  |
| ***19:00*** | ***Dinner*** |

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| ***2nd day, Friday 19 June 2015******Conference Room (09:00 – 16:00)*** |
| **Time**  | **Item no.** | **Agenda item** | **Presenters** |
| 9:00 – 11:00 | 3.c | **1st break-out session on revision of SoE reporting and 2016 assessment** |  |
|  |  | Questions for break-out session:1. Do you have comments on the SoE content review?
2. Is the new WISE SoE data request feasible?
3. Is the timing for the next WISE SoE data request reasonable?
 | NRCs with ETC |
| **11:00 – 11:30** | ***Coffee break*** |
| 11:30 – 13:00 | 3.d | Reports back from break-out sessions in plenaryDiscussion | Chairs/rapporteurs from break-out sessions |
| **13:00 -14:00** | ***Lunch break*** |
| 14:00 – 15:40 | 4. | **Session 4: Information on other WISE data requests than SoE**Chair:Anita Künitzer*Document 4: Plans for assessment of European waters for the next State of European waters report*  |  |
|  |  | 1. NFP priority data flow group and Eionet roles
2. WFD assessment
3. Floods Directive
4. Bathing Water Directive
5. Drinking Water Directive
6. Urban Waste Water Treatment Directive

Discussion | 1. Beate Werner
2. Peter Kristensen
3. Wouter Vanneuville
4. Lidija Globevnik
5. Jeanette Völker
6. Petra Ronen
 |
| 15:40 – 16:00 | 5. | **Conclusions and way forward**Chair:Anita Künitzer | Beate Werner |
|  |  |  |  |
| ***16:00*** | ***End of the meeting*** |