

Supplementary information detailing references for national ESCATs and intercalibrated approaches as used for the assessment of ecological status according to the Water Framework Directive in lakes, rivers and very large rivers in the European Union and associated countries.

This supplementary comprises a full list of references as available in January 2021; in cases where no method is available – either due to the absence of particular waterbodies or the absence of a specific method – NAs are given.

Austria

- *Lakes:* Wolfram, G., **2017** Report on fitting a new classification method from Austria to the results of the completed intercalibration of the Alpine GIG (Lakes) – Federal Ministry of Agriculture and Forestry, Environment and Water Management
- *Rivers:* Ofenböck, T., Moog, O., Hartmann, A., Stubauer, I. **2010** Leitfaden zur Erhebung der Biologischen Qualitätselemente, Teil A2 – Makrozoobenthos. Bundesministerium für Land- und Forstwirtschaft, Umwelt und Wasserwirtschaft, 211 pp.
- *Very large rivers:* Šporka, F., Pastuchová, Z., Hamerlík, L., Dobiašová, M., Beracko, P. **2009** Assessment of running waters (Slovakia) using benthic macroinvertebrates - derivation of ecological quality classes with respect to altitudinal gradients – Biologia (Versita) 64(6), 1196-1205 *and* Birk, S., Böhmer, J., Schöll, F., Poikane, S., **2017** Intercalibrating the national classifications of ecological status for very large rivers in Europe–Biological Quality Element: Benthic Invertebrates – JRC Technical Reports, Luxembourg: Publications Office of the European Union

Belgium

- *Lakes:* Gabriels, W., Lock, K., De Pauw, N., Goethals, P.L., **2010** Multimetric Macroinvertebrate Index Flanders (MMIF) for biological assessment of rivers and lakes in Flanders (Belgium) – Limnologica-Ecology and Management of Inland Waters, 40(3), 199-207 (Flanders)
- *Rivers:* Gabriels, W., Lock, K., De Pauw, N., Goethals, P.L., **2010** Multimetric Macroinvertebrate Index Flanders (MMIF) for biological assessment of rivers and lakes in Flanders (Belgium) – Limnologica-Ecology and Management of Inland Waters, 40(3), 199-207 (Flanders) *and* Bossche, J.P.V., Usseglio-Polatera, P., **2005** Characterization, ecological status and type-specific reference conditions of surface water bodies in Wallonia (Belgium) using biocenotic metrics based on benthic invertebrate communities – Hydrobiologia, 551(1), 253-271 (Wallonia)
- *Very large rivers:* NA

Bulgaria

- *Lakes:* Böhmer, J., Arbaciauskas, K., Benstead, R., Gabriels, W., Porst, G., Reeze, B., Timm, H., **2014** Water Framework Directive intercalibration technical report. Central Baltic lake benthic invertebrate ecological assessment methods – Luxembourg: Publication Office of the European Union
- *Rivers:* Lock, K., Asenova, M., & Goethals, P. L., **2011** Benthic macroinvertebrates as indicators of the water quality in Bulgaria: A case-study in the Iskar river basin – Limnologica-Ecology and Management of Inland Waters, 41(4), 334-338 *and* Soufi, R., Varadinova, E., McGarrigle, M., Kelly-Quinn, M., **2015**. Comparison of the performance of a Quality Rating System in two contrasting ecoregions – Acta Zoologica Bulgarica, 67(4), 529-540
- *Very large rivers:* as for rivers with different threshold values; Birk, S., Böhmer, J., Schöll, F., Poikane, S., **2017** Intercalibrating the national classifications of ecological status for very large rivers in Europe–Biological Quality Element: Benthic Invertebrates – JRC Technical Reports. Luxembourg: Publications Office of the European Union

Croatia (methods in press)

- Lakes: Mihaljević, Z., Pozojević, I., **2020** Report on Croatian lake benthic macroinvertebrates classification method in the case where the Intercalibration exercise is not possible (Gap 3) – Hrvatske vode, Zagreb
- Rivers: Mihaljević, Z., Miliša, M., Pozojević, I., **2020** Report on fitting a macroinvertebrate classification method with the results of the completed intercalibration of the EC GIG (R-E2 and R-E3) – Hrvatske vode, Zagreb *and* Mihaljević, Z., Miliša, M., Pozojević, I., **2020** Report on fitting a macroinvertebrate classification method with the results of the completed intercalibration of the EC GIG (R-EX5 and R-EX6) – Hrvatske vode, Zagreb *and* Miliša, M., Mihaljević, Z., Pozojević, I., **2020** Report on fitting of Croatian classification method for macroinvertebrate in rivers with the results of the completed intercalibration of the MED GIG (R-M1 and R-M2) – Hrvatske vode, Zagreb *and* Miliša, M., Mihaljević, Z., Pozojević, I., **2020** Report on fitting of Croatian classification method for macroinvertebrate in rivers with the results of the completed intercalibration of the MED GIG (R-M5) – Hrvatske vode, Zagreb.
- Very large rivers: as for rivers with different sets of metrics; Birk, S., Böhmer, J., Schöll, F. and Poikane, S., **2017** Intercalibrating the national classifications of ecological status for very large rivers in Europe–Biological Quality Element: Benthic Invertebrates – JRC Technical Reports; Luxembourg: Publications Office of the European Union.

Cyprus

- Lakes: NA
- Rivers: Buffagni A., Erba S., Cazzola M., Murray-Bligh J., Soszka, H., Genoni P., **2006** The STAR common metrics approach to the WFD intercalibration process: Full application for small, lowland rivers in three European countries – Hydrobiologia, 566, 379-399 *and* Buffagni, A., Erba, S., Furse, M.T., **2007** A simple procedure to harmonize class boundaries of assessment systems at the pan-European scale – Environmental Science & Policy, 10(7-8), 709-724
- Very large rivers: NA

Czech Republic

- Lakes: NA
- Rivers: Opatřilová, L., Kokeš, J., Syrovátka, V., Němejcová, D., Zahrádková, S. **2011** Hodnocení tekoucích vod ČR podle makrozoobentosu: vývoj a popis metodiky/ Assessing running waters of the Czech Republic using benthic macroinvertebrates: development and description of the evaluation method – VTEI, roč. 53, mimořádné číslo I/2011, s. 6-9; Příloha časopisu Vodní hospodářství. ISSN 0322 – 8916
- Very large rivers: Němejcová, D., Zahrádková, S., Opatřilová L., Syrovátka, V., **2013** Metodika hodnocení biologické složky bentičtí bezobratlí pro velké nebroditelné řeky/ Methodology of ecological status assessment of large non-wadeable rivers using benthic macroinvertebrates – Prague, 45 pp. *and* Birk, S., Böhmer, J., Schöll, F., Poikane, S., **2017** Intercalibrating the national classifications of ecological status for very large rivers in Europe–Biological Quality Element: Benthic Invertebrates – JRC Technical Reports; Luxembourg: Publications Office of the European Union

Denmark

- Lakes: Wiberg-Larsen, P., Rasmussen, J., **2017** A new Danish macroinvertebrate index for lakes: An assessment of ecological quality – Aarhus University, DCE – Danish Centre for Environment and Energy
- Rivers: Skriver, J., Friberg, N., Kirkegaard, J., **2000** Biological assessment of running waters in Denmark: Introduction of the Danish Stream Fauna Index (DSFI) – Verhandlungen des Internationalen Vereins für Limnologie 27(4), 1822-1830 *and* Wiberg-Larsen, P., Windolf, J., Bøgestrand, J., Baattrup-Pedersen, A., Kristensen, E.A.,

Larsen, S.E., Thodsen, H., Ovesen, N.B., Bjerring, R., Kronvang, B., Kjeldgaard, A., **2013** Vandløb 2012, NOVANA, Aarhus Universitet, DCE–Nationalt Center for Miljø og Energi, 84s. – Videnskabelig rapport fra DCE–Nationalt Center for Miljø og Energi nr. 75. <https://dce2.au.dk/pub/SR75.pdf>

- *Very large rivers:* NA

Estonia

- *Lakes:* Timm, H., Käiro, K., Möls, T., Virro, T., **2011** An index to assess hydromorphological quality of Estonian surface waters based on macroinvertebrate taxonomic composition – *Limnologica*, 41(4), 398-410 *and* Timm, H., Möls, T., **2012** Littoral macroinvertebrates in Estonian lowland lakes: the effects of habitat, season, eutrophication and land use on some metrics of biological quality – *Fundamental and Applied Limnology/Archiv für Hydrobiologie*, 180(2), 145-156 *and* Böhmer, J., Arbaciauskas, K., Benstead, R., Gabriels, W., Porst, G., Reeze, B., Timm, H., **2014** Water Framework Directive intercalibration technical report; Central Baltic lake benthic invertebrate ecological assessment methods – Luxembourg: Publication Office of the European Union
- *Rivers:* Timm, H., Käiro, K., Möls, T., Virro, T., **2011** An index to assess hydromorphological quality of Estonian surface waters based on macroinvertebrate taxonomic composition – *Limnologica*, 41(4), 398-410
- *Very large rivers:* Timm, H., Käiro, K., Möls, T., Virro, T., **2011** An index to assess hydromorphological quality of Estonian surface waters based on macroinvertebrate taxonomic composition – *Limnologica*, 41(4), 398-410

Finland

- *Lakes:* Wiederholm, T., **1980** Use of benthos in lake monitoring – *Journal (Water Pollution Control Federation)*, 537-547 *and* Jyväsjärvi, J., Nyblom, J., Hämäläinen, H., **2010**. Palaeolimnological validation of estimated reference values for a lake profundal macroinvertebrate metric (Benthic Quality Index) – *Journal of Paleolimnology*, 44(1), 253-264.
- *Rivers:* Aroviita, J., Koskenniemi, E., Kotanen, J. & Hämäläinen, H., **2008** A priori typology-based prediction of benthic macroinvertebrate fauna for ecological classification of rivers – *Environmental Management* 42, 894–906. <http://dx.doi.org/10.1007/s00267-008-9173-8> *and* Aroviita, J., Hellsten, S., Jyväsjärvi, J., Järvenpää, L., Järvinen, M., Karjalainen, S.M., Kauppila, P., Keto, A., Kuoppala, M., Manni, K., Mannio, J., Mitikka, S., Olin, M., Perus, J., Pilke, A., Rask, M., Riihimäki, J., Ruuskanen, A., Siimes, K., Sutela, T., Vehanen, T., Vuori, K.-M., **2012** Ohje pintavesien ekologisen ja kemiallisen tilan luokitteluun vuosille 2012–2013 – päivitetty arvointiperusteet ja niiden soveltaminen/Guidelines for the ecological and chemical status classification of surface waters for 2012–2013 – updated assessment criteria and their application) – *Environmental Administration Guidelines 7/2012: 1–144*. (in Finnish) <http://hdl.handle.net/10138/41788> *and* Vuori K.-M., S. Mitikka & H. Vuoristo (ed.) **2009** Guidance on ecological classification of surface waters in Finland – *Environmental Administration Guidelines 3/2009: 1-120*. (in Finnish) <https://helda.helsinki.fi/handle/10138/41785>
- *Very large rivers:* NA

France

- *Lakes:* NA
- *Rivers:* Mondy, C.P., Villeneuve, B., Archaibault, V., Usseglio-Polatera, P., **2012** A new macroinvertebratebased multimetric index (I2M2) to evaluate ecological quality of French wadeable streams fulfilling the WFD demands: A taxonomical and trait approach – *Ecological Indicators* 18, 452– 467.
- *Very large rivers:* NA

Germany

- *Lakes*: Miller, O., Brauns, M., Böhmer, J., Pusch, M., **2013** Feinabstimmung des Bewertungsverfahrens von Seen mittels Makrozoobenthos – Project report Länderfinanzierungsprogramm 'Wasser, Boden und Abfall' (project no. O 5.10/2011) and Böhmer, J., Arbaciauskas, K., Benstead, R., Gabriels, W., Porst, G., Reeze, B., Timm, H., **2014** Water Framework Directive intercalibration technical report: Central Baltic lake benthic invertebrate ecological assessment methods – Luxembourg: Publication Office of the European Union.
- *Rivers*: Meier, C., Hering, D., Biss, R., Böhmer, J., Rawer-Jost, C., Zenker, A., Haase, P., Schöll, F., Rolauffs, P., Sundermann, A., **2006** Weiterentwicklung und Anpassung des nationalen Bewertungssystems für Makrozoobenthos an neue internationale Vorgaben – University of Duisburg-Essen, Essen. http://gewaesserbewertung.de/files/abschlussbericht_20060331.pdf
- *Very large rivers*: Schöll, F., Haybach, A., König, B., **2005** Das erweiterte Potamontypieverfahren zur ökologischen Bewertung von Bundeswasserstraßen (Fließgewässertypen 10 und 20: kies- und sandgeprägte Ströme, Qualitätskomponente Makrozoobenthos) nach Maßgabe der EU-Wasserrahmenrichtlinie/The extended potamon-type method for ecological assessments of German federal waterways (Stream-type groups 10 and 20: Pebble/gravel or sand dominated streams, quality component "Macrozoobenthos" following the EC Water Framework Directive (WFD) (in German) – Hydrologie und Wasserwirtschaft 49 (5), 234-247 and Birk, S., Böhmer, J., Schöll, F., Poikane, S., **2017** Intercalibrating the national classifications of ecological status for very large rivers in Europe–Biological Quality Element: Benthic Invertebrates – JRC Technical Reports. Luxembourg: Publications Office of the European Union

Greece

- *Lakes*: Ntislidou, C., Lazaridou, M., Tsiaoussi, V. and Bobori, D.C., **2018** A new multimetric macroinvertebrate index for the ecological assessment of Mediterranean lakes – Ecological Indicators, 93, 1020-1033 (profundal zone) and Mavromati, E., Kemitzoglou, D., Tsiaoussi, V., Lazaridou, M., **2020** Report on the development of the national method for the assessment of ecological status of natural lakes in Greece, with the use of littoral benthic invertebrates – Greek Biotope/Wetland Centre and Special Secretariat for the Natural Environment and Waters, Ministry of Environment and Energy Thermi, Greece. 11 p + Annex (littoral zone)
- *Rivers*: Artemiadou, V. and Lazaridou, M., **2005** Evaluation score and interpretation index for the ecological quality of running waters in central and northern Hellas – Environmental Monitoring and Assessment, 110(1-3), 1-40 and Lazaridou, M., Ntislidou, C., Karaouzas, I., Skoulidakis, N., **2016** Development of a national assessment method for the ecological status of rivers in greece, using the biological quality element “benthic macroinvertebrates”, the Hellenic Evaluation System-2 (HESY-2), and harmonisation with the results of the completed intercalibration of the MED GIG (RM1, RM2, RM4, RM5); unpublished report and Lazaridou, M., Ntislidou, C., Karaouzas, I., Skoulidakis, N., **2018** Harmonisation of a new assessment method for estimating the ecological quality status of Greek running waters – Ecological Indicators, 84, 683-694
- *Very large rivers*: Lazaridou, M., Ntislidou, C., Karaouzas, I., Skoulidakis, N., **2017** intercalibrating the STAR_ICMi evaluation system for very large rivers in Greece based on benthic macroinvertebrates; unpublished report and Lazaridou, M., Ntislidou, C., Karaouzas, I., Skoulidakis, N., Birk, S., **2018** Harmonization of the assessment method for classifying the ecological quality status of very large Greek rivers – Knowledge & Management of Aquatic Ecosystems, 419, 50.

Hungary

- Lakes: Böhmer, J., Chiriac, G., Varbiro, G., Wolfram, G., Poikane, S., 2018 Intercalibrating the national classifications of ecological status for Eastern Continental lakes: Biological Quality Element: Benthic invertebrates, EUR 29342 EN – Publications Office of the European Union, Luxembourg, ISBN 978-92-79-92996-0, doi:10.2760/58812, JRC112694
- Rivers: Várbíró, G., Deák, C., Borics, G., Krasznai, E., 2010 Current issues in ecological water qualification: A case study on developing multimetric macroinvertebrate index on lowland, small and medium sized water bodies – Acta Biologica Debrecina, Supplementum Oecologica Hungarica, 21, 247-254 and Várbíró, G., Fekete, O., Ortmann-Ajkai, A., Ficsor, M., Cser, B., Kovács, K., Kiss, G., Czirok, A., Horvai, V., Deák, C.S., 2011 Developing a multimetric macroinvertebrate index on mountainous, small and medium sized water bodies – Acta Biologica Debrecina Supplementum Oecologica Hungarica, 26, 211-220.
- Very large rivers: Birk, S., Böhmer, J., Schöll, F., Poikane, S., 2017 Intercalibrating the national classifications of ecological status for very large rivers in Europe–Biological Quality Element: Benthic Invertebrates – JRC Technical Reports; Luxembourg: Publications Office of the European Union

Ireland

- Lakes: NA
- Rivers: McGarrigle, M.L., Lucey, J., Clabby, K.C., 1992 Biological assessment of river water quality in Ireland. River Water Quality Ecological Assessment and Control – Brussels (Commission of the European Community), 371-385
- Very large rivers: NA

Italy

- Lakes: Rossaro, B., Boggero, A., Lods-Crozet, B., Free, G., Lencioni, V., Marziali, L., Wolfram, G., 2012 A benthic quality index for European alpine lakes – Fauna Norvegica, 31, 95. <https://doi.org/10.5324/fn.v31i0.1364>
- Rivers: Buffagni A., Erba S., Cazzola M., Murray-Bligh J., Soszka, H., Genoni, P., 2006 The STAR common metrics approach to the WFD intercalibration process: Full application for small, lowland rivers in three European countries – Hydrobiologia, 566, 379-399 and Buffagni, A., Erba, S., Furse, M.T., 2007 A simple procedure to harmonize class boundaries of assessment systems at the pan-European scale – Environmental Science & Policy, 10(7-8), 709-724
- Very large rivers: NA

Latvia

- Lakes: Skuja, A., Ozoliņš, D. 2017 Report: Fitting new method-Latvian Lake Macroinvertebrate Multimetric Index (LLMMI) to results of Central-Baltic Geographical Intercalibration Group (CB-GIG) lake benthic invertebrate intercalibration; unpublished report, Salaspils, Latvia
- Rivers: Ozoliņš, D., Skuja, A., 2016 Fitting the new Latvian Macroinvertebrate Index (LMI) for rivers to the results of the Central-Baltic Geographical Intercalibration Group; unpublished report, Riga, Latvia
- Very large rivers: Birk, S., Böhmer, J., Schöll, F., Poikane, S., 2017 Intercalibrating the national classifications of ecological status for very large rivers in Europe–Biological Quality Element: Benthic Invertebrates – JRC Technical Reports, Luxembourg: Publications Office of the European Union

Lithuania

- Lakes: Šidagytė, E., Višinskienė, G., Arbačiauskas, K., 2013 Macroinvertebrate metrics and their integration for assessing the ecological status and biocontamination of Lithuanian lakes – Limnologica 43(4), 308-318 and Poikane, S., Johnson, R.K., Sandin, L., Schartau, A.K., Solimini, A.G., Urbanič, G., Arbačiauskas, K., Aroviita, J., Gabriels,

W., Miler, O., Pusch, M.T., Timm, H., Böhmer, J. **2016** Benthic macroinvertebrates in lake ecological assessment: A review of methods, intercalibration and practical recommendations – Science of The Total Environment 543, 123-134; <https://doi.org/10.1016/j.scitotenv.2015.11.021>

- *Rivers:* Šidagytė, E., Arbačiauskas, K., **2015** Fitting the new Lithuanian River Macroinvertebrate Index (LRMI) to the results of the Central-Baltic Geographical Intercalibration Group – Nature Research Centre, Vilnius. 21 pp.
- *Very large rivers:* NA

Luxembourg

- *Lakes:* NA
- *Rivers:* AFNOR, **2004** Qualité de l'eau. Détermination de l'indice biologique global normalisé (IBGN). Norme française homologue à NF-T90-350 (remplaçant la norme de 1992) – Association française de normalisation AFNOR, Paris, France
- *Very large rivers:* NA

Netherlands

- *Lakes:* Böhmer, J., Arbačiauskas, K., Benstead, R., Gabriels, W., Porst, G., Reeze, B., Timm, H., **2014** Water Framework Directive intercalibration technical report. Central Baltic lake benthic invertebrate ecological assessment methods – Luxembourg: Publication Office of the European Union
- *Rivers:* van der Molen, D. T., Pot, R., **2007** Referenties en maatlatten voor natuurlijke watertypen voor de kaderrichtlijn water – STOWA, Rapportnummer: 2007–2032
- *Very large rivers:* NA

Norway

- *Lakes:* NA
- *Rivers:* Armitage, P.D., Moss, D., Wright, J.F., Furse, M.T., **1983** The performance of a new biological water quality score system based on macroinvertebrates over a wide range of unpolluted running-waters – Water Research, 17, 333-347
- *Very large rivers:* NA

Poland

- *Lakes:* Bielczyńska, A., Kolada, A., Soszka, H., Böhmer, J., **2018** Fitting new Polish method – Lake Macroinvertebrate Index (LMI) to results of Central – Baltic Geographical Intercalibration Group (CB – GIG) lake benthic macroinvertebrate intercalibration
- *Rivers:* Buffagni, A., Erba, S., Cazzola, M., Murray-Bligh, J., Soszka, H., Genoni, P., **2006** The STAR common metrics approach to the WFD intercalibration process: Full application for small, lowland rivers in three European countries – Hydrobiologia, 566, 379-399 and Buffagni, A., Erba, S., Furse, M.T., **2007** A simple procedure to harmonize class boundaries of assessment systems at the pan-European scale – Environmental Science & Policy, 10(7-8), 709-724
- *Very large rivers:* Buffagni A., Erba S., Cazzola M., Murray-Bligh J., Soszka, H., Genoni, P., **2006** The STAR common metrics approach to the WFD intercalibration process: Full application for small, lowland rivers in three European countries – Hydrobiologia, 566, 379-399 and Buffagni, A., Erba, S., Furse, M.T., **2007** A simple procedure to harmonize class boundaries of assessment systems at the pan-European scale – Environmental Science & Policy, 10(7-8), 709-724

Portugal

- *Lakes:* NA
- *Rivers:* Ferreira, J., Bernardo, J.M., Alves, M.H., **2008** Exercício de intercalibração em rios no âmbito da Directiva-Quadro da Água – Lisboa: Acta do 9º Congresso da Água 2008 and Feio, M.J., Ferreira, J., Buffagni, A., Erba, S., Dörflinger, G., Ferréol, M.,

Munné, A., Prat, N., Tziortzis, I., Urbanič, G., **2014** Comparability of ecological quality boundaries in the Mediterranean basin using freshwater benthic invertebrates. Statistical options and implications – Science of the Total Environment, 476, 777-784

- *Very large rivers:* NA

Romania

- *Lakes:* Böhmer, J., Chiriac, G., Varbiro, G., Wolfram, G., Poikane, S., **2018** Intercalibrating the national classifications of ecological status for Eastern Continental lakes: Biological Quality Element: Benthic invertebrates, EUR 29342 EN – Publications Office of the European Union, Luxembourg, ISBN 978-92-79-92996-0, doi:10.2760/58812, JRC112694
- *Rivers:* Chiriac, G., Vintil, F., Galasiu, L., Lungu, A., Ureche, D., **2007** Assessment of the ecological status of various lotic ecosystems from the H.B. Jiu using biotic communities according to the WFD requirements – Muzeul Olteniei Craiova, Oltenia, Studii și comunicări; Științele Naturii, 23, 227–232 and Opatřilová, L., Kokeš, J., Syrovátky, V., Němejcová, D., Zahrádková, S. **2011** Hodnocení tekoucích vod ČR podle makrozoobentosu: vývoj a popis metodiky/Assessing running waters of the Czech Republic using benthic macroinvertebrates: development and description of the evaluation method (in Czech) – VTEI, roč. 53, mimořádné číslo I/2011, s. 6-9; Příloha časopisu Vodní hospodářství, ISSN 0322 – 8916
- *Very large rivers:* Birk, S., Böhmer, J., Schöll, F., Poikane, S., **2017** Intercalibrating the national classifications of ecological status for very large rivers in Europe–Biological Quality Element: Benthic Invertebrates – JRC Technical Reports, Luxembourg: Publications Office of the European Union

Slovakia

- *Lakes:* NA
- *Rivers:* Šporka, F., Pastuchová, Z., Hamerlík, L., Dobiasová, M., Beracko, P. **2009** Assessment of running waters (Slovakia) using benthic macroinvertebrates - derivation of ecological quality classes with respect to altitudinal gradients – Biologia (Versita) 64(6), 1196-1205
- *Very large rivers:* Birk, S., Böhmer, J., Schöll, F., Poikane, S., **2017** Intercalibrating the national classifications of ecological status for very large rivers in Europe–Biological Quality Element: Benthic Invertebrates – JRC Technical Reports, Luxembourg: Publications Office of the European Union

Slovenia

- *Lakes:* Urbanič, G., **2014** A Littoral Fauna Index for assessing the impact of lakeshore alterations in Alpine lakes. Ecohydrology 7, 703-716. Intercalibration report: Solimini, A., Argillier, C., Boggero, A., Böhmer, J., Gevrey, M., Urbanič, G., Wolfram, G., **2014**. Water Framework Directive Intercalibration Technical Report. Alpine Lake Benthic Invertebrate ecological assessment methods. Luxembourg: Publication Office of the European Union.
- *Rivers:* Urbanič, G., Ambrožič, Š., Pavlin M., Rotar, B., Grbović J., **2008** Dopolnitev metodologij vrednotenja ekološkega stanja rek in klasifikacija ekološkega stanja vodnih teles rek z biološkim elementom bentoski nevretenčarji v skladu z Vodno direktivo (Direktiva 2000/60/ES) – Eko-voda, Zgornja Ščavnica, 82 pp.
- *Very large rivers:* Urbanič, G., **2014** Hydromorphological degradation impact on benthic invertebrates in large rivers in Slovenia – Hydrobiologia 729, 191-207. Intercalibration report: Birk, S., Böhmer, J., Schöll, F., Poikane, S., **2017** Intercalibrating the national classifications of ecological status for very large rivers in Europe–Biological Quality Element: Benthic Invertebrates – JRC Technical Reports, Luxembourg: Publications Office of the European Union

Spain

- *Lakes*: Boix, D., Caiola, N., Cañedo-Argüelles, M., Gascón, S., Ibàñez, C., Nebra, A., Quintana, X.D., Rieradevall, M., Sala, J. Sánchez-Millaruelo, N., Solà, C., 2010 Avaluació de l'estat ecològic de les zones humides I ajust dels indicadors de qualitat. Índexs QAELSe2010, ECELS i EQAT – Agència Catalana de l'Aigua, Departament de Medi Ambient i Habitatge, Generalitat de Catalunya, Barcelona, 210 pp. Available in: http://aca-web.gencat.cat/aca/appmanager/aca/aca?_nfpb=true&_pageLabel=P1205654461208200562998#fragment-7
- *Rivers*: Alba-Tercedor, J., Jáimez-Cuéllar, P., Alvarez, M., Avilés, J., Bonada, N., Casas, J., Mellado-Díaz, A., Ortega, M., Pardo, I., Prat, N., Rieradevall, M., Robles, S., Sáinz-Cantero, C., Sánchez-Ortega, A., Suárez Alonso, M., Toro, M., Rosario, M., Vidal-Abarca, M., Vivas, S., Zamora-Muñoz, C., 2002 Caracterización del estado ecológico de ríos mediterráneos ibéricos mediante el índice IBMWP (antes BMWP) – Limnetica 21 and Munné, A., Prat, N., 2009 Use of macroinvertebrate-based multimetric indices for water quality evaluation in Spanish Mediterranean rivers: an intercalibration approach with the IBMWP index – Hydrobiologia 628: 203–25 and Pardo I, Álvarez M, García E. 2009 Sistema de clasificación del estado ecológico en la CHN: cálculo de multimétricos de los tipos intercalibrados en el ámbito de la Confederación Hidrográfica del Norte (C. H. del Cantábrico y C. H. del Miño-Sil) – Universidad de Vigo: Vigo, Spain and Pardo I, Costas, N., 2017 Análisis y aplicación de los resultados de la intercalibración Europea a los métodos de clasificación del estado ecológico desarrollados para aguas superficiales (ríos temporales y aguas de transición) de la demarcación hidrográfica de les illes Balear – University de Vigo. https://www.caib.es/sites/aigua/ca/nous_treballs_aigues_superficials/ and Feio, M.J., Ferreira, J., Buffagni, A., Erba, S., Dörflinger, G., Ferréol, M., Munné, A., Prat, N., Tziortzis, I., Urbanič, G., 2014 Comparability of ecological quality boundaries in the Mediterranean basin using freshwater benthic invertebrates. Statistical options and implications – Science of the Total Environment, 476, 777-784
- *Very large rivers*: NA

Sweden

- *Lakes*: Wiederholm, T., 1980 Use of benthos in lake monitoring – Journal (Water Pollution Control Federation), 537-547 and Johnson, R.K., Goedkoop, W., 2007 Bedömningsgrunder för bottnenfauna i sjöar och vattendrag: användarmanual och bakgrundsdokument – Sveriges Lantbruksuniversitet.
- *Rivers*: Armitage, P.D., Moss, D., Wright, J.F., Furse, M.T., 1983 The performance of a new biological water quality score system based on macroinvertebrates over a wide range of unpolluted running-waters – Water Research 17, 333-347 and Dahl, J., Johnson, R.K., 2004 A multimetric macroinvertebrate index for detecting organic pollution of streams in southern Sweden – Archiv für Hydrobiologie, 160(4), 487-513
- *Very large rivers*: NA