



The Second Assessment of Transboundary Rivers, Lakes and Groundwaters: amendments to the assessment of South-Eastern Europe

Annukka Lipponen

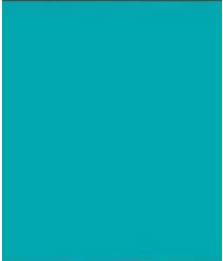
Environmental Affairs Officer, UNECE
Coordinator of the Second Assessment



Convention on the Protection and Use of Transboundary Watercourses and International Lakes

General situation

- SEE assessment was presented to the MoP-5 which endorsed it
- The following countries/organizations commented: Bulgaria, Greece, Hungary, Romania, Turkey and the Society for the Protection of Prespa
- Revisions to be included in the documents for next WGMA meeting



Amendments/additions proposed

- Mainly editorial changes
- Some updates (e.g. on division of responsibilities at national level – HU)
- Some substantial information:
 - Landuse/land cover, pressures (sand and gravel abstraction from Struma/Strymonas river, flow reduction on Mesta/Nestos), transboundary cooperation (1995 agreement with Greece), measures taken – BG
 - Table 29 (Evros/Meriç aquifer) removed but the reference to the aquifer remains in the assessment text(ECE/MP.WAT/2009/11) - TR
 - Hungarian part of Drava & Mura etc. - HU
 - Table 12 in Adriatic Sea assessment (Characteristics of the shared water bodies – Lake Prespa, L. Ohrid, Drin, L. Skadar/Shkoder, Buna/Bojana), changes to selected figures - Society for the Protection of Prespa



Amendments/additions proposed

- Some bilateral agreements added
 - Croatia-Hungary on the Danube, Dráva and Mura (1995)
 - Greece and Yugoslavia concerning Axios/Vardar, Doiran Lake, Prespa Lake (1959)
 - Albania-FYROM-Greece on the Prespa Lake (2010)
 - Romania-Hungary (2003)
 - Hungary-Austria (1956)
 - Hungary-Slovenia (1994)



Amendments/additions proposed

**Proposal of Hungary for Table 10 on p. 8
(surface areas modified for the total to add up)**

Country	Country's share (km ²)	Country's share (%)
Italy	86	0.2
Austria	22 614	52.3
Slovenia	4 972	11.5
Croatia	7 134	16.4
Hungary	8 431	19.5
Total	43 238	



Some aquifers assessed in SEE are only completed as part of Eastern and Northern Europe (linked with basins there):

- Pleistocene Mure/Maros alluvial fan (no. 47)
- Samos/Somes alluvial fan (no. 48)
- Middle Sarmatian – Pontian (no. 49)



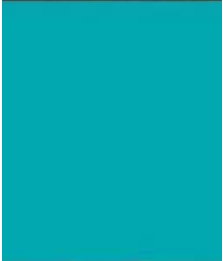
Remaining gaps

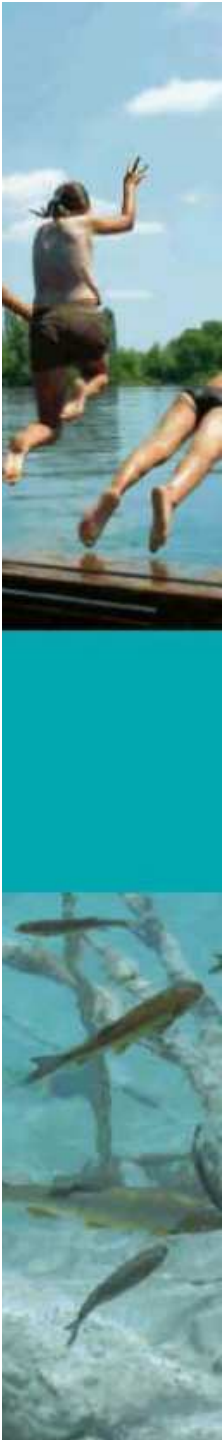
- Some SEE did not complete datasheets or comment on the drafts: Albania and Montenegro only provided some information (no datasheets) and; Greece only provided information about one agreement
- Some basins assessed based on information from one riparian country only
- Rezvaya (Rezovska) River Basin (Bulgaria, Turkey) got unintentionally omitted; secretariat will contact the riparian countries for information



Remaining gaps (*cont.*)

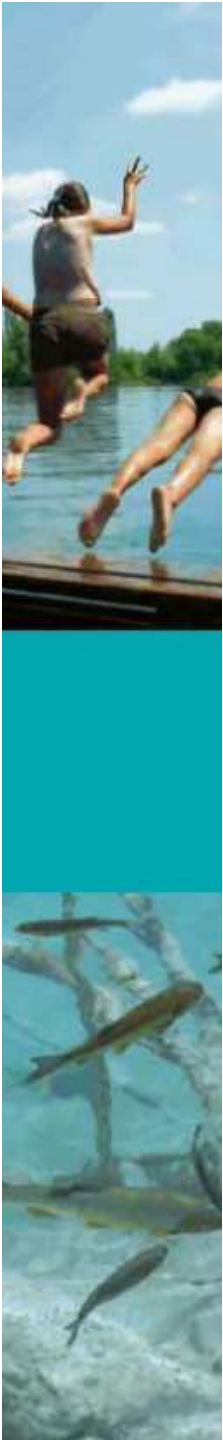
- Aquifer information provided is limited but may reflect simply unavailability of information
- There are gaps and points to be clarified about aquifers (countries will be contacted directly or bilaterally about these)





Basins where information from some riparian country/countries is missing

- Reservoirs Iron Gates I and II: Serbia
- Sava: population information needed from Albania and Montenegro; discharge data limited to Croatia
- Krka: Bosnia and Herzegovina
- Drin: Albania, Greece, FYR of Macedonia
- Mesta/Nestos: Greece
- Arda/Ardas: Greece



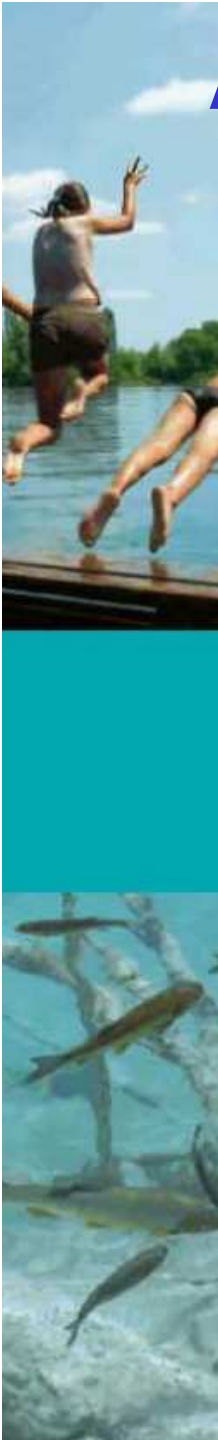
Basins where information from some riparian country/countries is not up to date

- Vardar/Axios: Greece, FYR of Macedonia
- Maritsa/Meric/Evros: Greece

Aquifers where information from some sharing country/countries missing

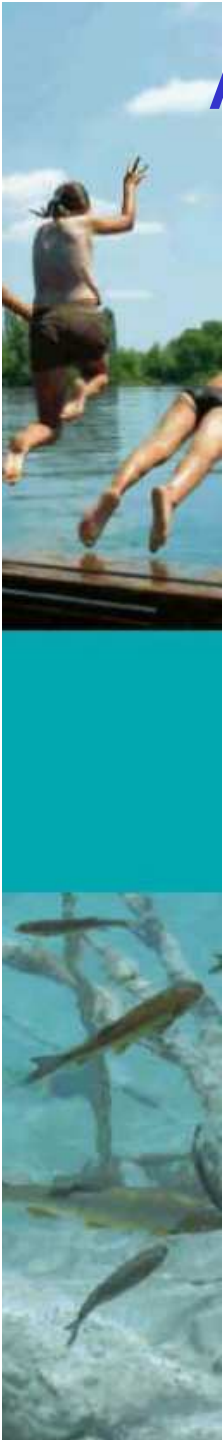


- Mura: Hungary
- Mura – Zalabasin/Radgona Vaš: Austria (reported not to extent to territory), Hungary
- Černeško-Libeliško (Alluvial aquifer of Drava River): Austria (uncertain about location)
- Kučnica (Alluvial aquifer of Mura River): Austria (reported not to extent to territory)
- Goričko: Hungary
- Kot: Hungary, Croatia
- Kočevje Goteniška gora: Croatia



Aquifers where information from some sharing country/countries missing (*cont.*)

- Bregana: Croatia
- Boč: Croatia
- Rogaška: Croatia
- Atomske toplice: Croatia
- Bohor: Croatia
- Dolinsko-Ravensko/Mura: Croatia (aquifer not considered transboundary)
- Bileko Lake: Montenegro
- Skadar/Shkoder Lake, Dinaric east coast aquifer: Albania



Aquifers where information from some sharing country/countries missing (*cont.*)

- Sandansky Valley: Greece
- Petrich Valley: FYR of Macedonia
- Mirna: Croatia
- Območje izvira Rižane aquifer: Croatia
- Opatija/Istra: Croatia
- Riječina – Zvir: Croatia
- Notranjska Reka (part of Bistrice-Snežnik in Slovenia): Croatia
- SW Back/Dunav: Croatia (transboundary aquifer not recognized)
- Dinaric littoral (west coast): Montenegro



Aquifers where information from some sharing country/countries missing

- Orestiada/Svilengrad-Stambolo/Edirne aquifer: Turkey
- Topolovgrad Massif: Turkey
- Vidlic/Nishava aquifer: Bulgaria
- Dinaric littoral (west coast): Montenegro
- Orestiada/Svilengrad-Stambolo/Edirne aquifer: Turkey
- Topolovgrad Massif: Turkey



Aquifers where information from some sharing country/countries not updated and are based on the 1st Assessment

- Bizeljsko/Sutla: Slovenia, Croatia
- Srem-West Srem/Sava: Serbia, Croatia
- Lim: Montenegro
- Tara Massif: Bosnia and Herzegovina
- Macva-Semberija: Serbia
- Krka: Bosnia and Herzegovina, Croatia
- Bileko Lake: Bosnia and Herzegovina
- Beli Drim/Drini i Bardhe: Albania
- Prespa and Ohrid Lakes: Albania, Greece, FYR of Macedonia

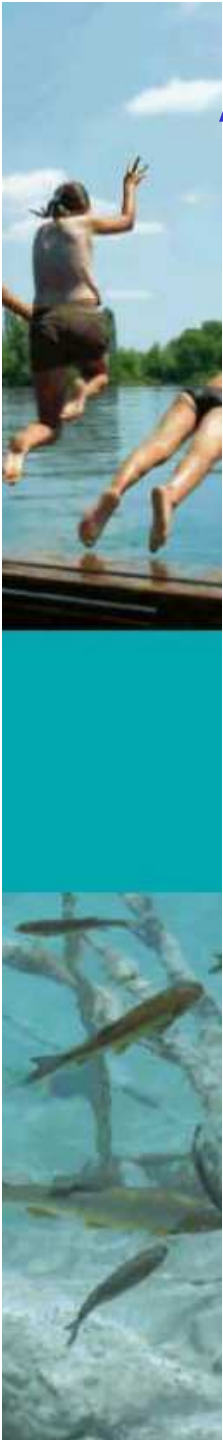




Aquifers where information from some sharing country/countries not updated and are based on the 1st Assessment

- Nemechka/Vjosa-Pogoni: Albania, Greece
- Mirna/Istra: Slovenia
- Cetina: Bosnia and Herzegovina
- Metohija: Montenegro
- Pester: Montenegro
- Korab/Bistra-Stogovo: FYR of Macedonia, Albania
- Jablanica/Golobordo: FYR of Macedonia, Albania
- Mourgana Mountain/Mali Ghere: Albania, Greece





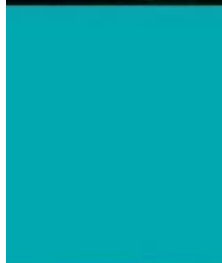
Aquifers where information from some sharing country/countries not updated and are based on the 1st Assessment

- Pelagonia- Florina/Bitolsko: FYR of Macedonia, Greece
- Gevgelija/Vardar – Axios: FYR of Macedonia, Greece
- Dojran Lake: FYR of Macedonia, Greece
- Topolovgrad Massif: Bulgaria

Transboundary aquifers not connected to surface waters

There are a number of aquifers identified and assessed in the SEE, which are either not connected to surface waters (e.g. coastal aquifers discharging to the sea) or connection is not confirmed by the countries concerned. Can any of these be linked to the basins?:

- Pelagonia- Florina/Bitolsko Aquifer
- Aquifer system of Istra and Kvarner (Secovlje- Dragonja/Istra aquifer, Mirna/Istra aquifer, Mirna aquifer, Območje izvira Rižane aquifer, Opatija/Istra aquifer, Riječina – Zvir aquifer, Notranjska Reka aquifer, Novokračine aquifer)



Transboundary aquifers not connected to surface waters (*cont.*)

- Cetina aquifer
- Dinaric Littoral (west coast) aquifer
- Pester aquifer
- Metohija aquifer
- Korab/Bistra – Stogovo aquifer
- Jablanica/Golobordo aquifer
- Mourgana Mountain/Mali Gjere aquifer

