

Workshop Agenda

„Establishment of regional academic network in EMAB“
INTERNATIONAL UNIVERSITY OF TRAVNIK, TRAVNIK, BIH
14th and 15th of December, 2020.






| | |
|-------------------------------|--|
| Monday 14.12.2020. | ECOBIA 1st Workshop „Establishment of regional academic network in EMAB“ 14.-15.12.2020, International University Travnik in Travnik (B&H), location: Travnik and on-line participation (Zoom platform), Bosnia and Herzegovina Work Package Leader P8 UNTZ; P7 Task Leader IUT |
| 10:30 – 11.00 | Workshop day 1- participants registration and login, round-table introduction |
| 11.00 – 12.00 | Regional institutional networking in freshwater ecomonitoring in Bosnia and Herzegovina /Regionalna institucionalna saradnja u ekomonitoringu voda u Bosni i Hercegovini/ Dr.sc. Jasmina Kamberović, University of Tuzla Dr.sc. Biljana Lubarda, University of Banja Luka Students: Dženeta Klepić, Kenan Nurković Stakeholders in Bosnia and Herzegovina in the freshwater ecomonitoring |
| 12.00 – 12.15 | <i>Coffee break</i> |
| 12.15 – 13.00 | Regional institutional networking in freshwater ecomonitoring in Montenegro /Regionalna institucionalna saradnja u ekomonitoringu voda u Crnoj Gori/ Dr.sc. Anđela Jakšić-Stojanović, University of Donja Gorica Stakeholders in freshwater ecomonitoring in Montenegro |
| 13.00 – 14.00 | <i>Lunch break</i> |
| 14.00 – 14.45 | ECOBIAS highschool networking /Umrežavanje učenika srednjih škola u okviru Ecobias projekta/ Dr.sc. Nedžada Tolja, International University of Travnik |
| 14.15 – 15.00 | <i>Coffee break</i> |
| 15.00 – 16.30 | The platform data base Keywords /Platformska baza podataka – ključne riječi/ Dr.sc. Dragan Škobić, University of Mostar Dr.sc. Snežana Radulović, University of Novi Sad |
| 16.30 – 18:00 | ECOBIAS Platform plan/Plan platforme ECOBIAS/ Dr.sc. Nusret Drešković, University of Sarajevo Dr.sc. Snežana Radulović, University of Novi Sad |

| Tuesday 15.12.2020 | |
|--------------------|---|
| 10.00 – 10.15 | Workshop day 2- participants registration and login, roundtable introduction |
| 10:15 – 10.45 | Regional institutional networking in freshwater ecomonitoring in Croatia Dr.sc. Ivana Buj, University of Zagreb Dr.sc. Zoran Marčić, University of Zagreb |
| 10.45 - 11.00 | <i>Coffee break</i> |
| 11.00 - 11.45 | Calibration exercise in freshwater ecomonitoring Kalibracijska vježba za ekomonitoring korištenjem ihtiofaune Dr.sc. Ivana Buj, University of Zagreb |
| 11.45 – 12.00 | <i>Coffee break</i> |
| 12.00 – 13.00 | Stakeholders and policy makers networking for promoting the best practice in freshwater management /Umrežavanje upravljača vodnim telima u cilju pronalaženja najbolje prakse u ekomonitoringu/ Dr.sc. Slavko Smiljanić, University of East Sarajevo |
| 13.00 – 14.00 | <i>Lunch break</i> |
| 14.00 – 14.45 | Regional institutional networking in freshwater ecomonitoring in Serbia /Regionalna institucionalna saradnja u ekomonitoringu voda u Srbiji/ Dr.sc. Vladimir Ranđelović, University of Niš Mr. sc. Olivera Gavrilović, Vojvodina vode, Novi Sad Stakeholders in freshwater ecomonitoring in Serbia |
| 14.15 – 14.30 | <i>Coffee break</i> |
| 14.30 – 15.00 | Workshop evaluation |
| 15:00 – 17:00 | <p style="text-align: center;">ECOBIA Book Promotion</p> <p style="text-align: center;">Biomonitoring akvatičnih ekosistema University of Sarajevo, 2020.</p> <p style="text-align: center;">Autori:</p> <p style="text-align: center;">Samir Đug, Nusret Drešković, Sadbera Trožid-Borovac, Aldijana Mušović, Adi Vesnić, Sabina Trakić, Mahir Gajević, Renata Bešta-Gajević, Senad Šljuka, Ranko Mirić, Enad Korjenić, Rifat Škrijelj</p> <p style="text-align: center;">Recenzenti:</p> <p style="text-align: center;">Dr. sc. Avdo Sofradžija, profesor emeritus, Univerzitet u Sarajevu Dr. sc. Snežana Radulović, redovni profesor, Univerzitet u Novom Sadu</p> <p style="text-align: center;">Dr.sc. Samir Đug, Dr.sc. Nusret Drešković, Dr.sc. Snežana Radulović</p> |

Attendance List

| | |
|--------------|---|
| Event | 1st ECOBIAS Workshop „Establishment of regional academic network in EMAB“ |
| Venue | International University Travnik in Travnik (B&H) |
| Date | 14/12/2020 |
| Organiser(s) | dr Selma Otuzbir Mecan, Zlatko Mecan |

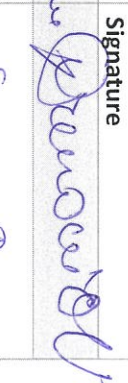
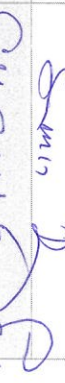




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Attendance List

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| Event | 1st ECOBIAS Workshop „Establishment of regional academic network in EMAB“ | | |
| Venue | International University Travnik in Travnik (B&H) | | |
| Date | 15/12/2020 | | |
| Organiser(s) | dr Selma Otuzbir Mecan, Zlatko Mecan | | |

| No | Name and Surname | Institution | E-mail | Signature |
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Erasmus + Project No ECOBIAS_609967-EPP-1-2019-1-RS-EPPKA2-CBHE-JP

Development of master curricula in ecological monitoring and aquatic bioassessment for Western Balkans HEIs



| | | | |
|------------------|-------------------|----------------------------|----------------|
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Erasmus + Project No ECOBIAS_609967-EPP-1-2019-1-RS-EPPKA2-CBHE-JP

Development of master curricula in ecological monitoring and aquatic bioassessment for Western Balkans HEIs



Annex 5. Summary of the Participant Feedback Form for Workshop

Part 1: Workshop Information

Date ___14-15/12/2020_____

Place ___International University of Travnik, Travnik BiH_____

Event objective **ECOBIAS 1st Workshop** „Establishment of regional academic network in EMAB“ 14.-15.12.2020, International University Travnik in Travnik (B&H), location: Travnik and on-line participation (Zoom platform), Bosnia and Herzegovina, Regional institutional networking in freshwater Eco monitoring in Bosnia and Herzegovina, Regional institutional networking in freshwater ecomonitoring in Montenegro; ECOBIAS high school networking; The platform data base Keywords; ECOBIAS Platform plan;

2 Participants registration and login, roundtable introduction:

Regional institutional networking in freshwater ecomonitoring in Croatia;

Calibration exercise in freshwater Eco monitoring; Stakeholders and policy makers networking for promoting the best practice in freshwater management; Regional institutional networking in freshwater Eco monitoring in Serbia; Workshop evaluation.

Evaluator name _____Selma Otuzbir-Mecan_____

Signature_____

Evaluator affiliation_____ coordinator

Part 2: Organization and Structure

| Organizational feature | 3 Strongly Agree | 2 Agree | 1 Disagree | 0 Strongly Disagree |
|--|------------------------|------------|---------------|--|
| The objectives of the event were clearly defined | 20x3 =60 | 2x2=4 | | |
| Information related to each item prepared well in advance of the event | 21x3=63 | 1x2=2 | | |
| The material distributed were helpful and on time | 21x3=63 | 1x2=2 | | |
| The presentations met my expectation | 20x3=60 | 2x2=2 | | |
| Participation and interactions were encouraged by moderator | 21x3=63 | 1x2=2 | | |
| The event objectives were met | 18x3=54 | 4x2=8 | | |
| I will be able to apply the event's content in my future work | 20x3=60 | 2x2=4 | | |
| The event content was challenging enough | 19x3=57 | 3x2=6 | | |
| The timeframe was adequate | 19x3=57 | 3x2=6 | | |
| The facilities were adequate | 20x3=60 | 2x2=4 | | |
| Skill practice sessions were included | 18x3=54 | 1x2=2 | 2x1=2 | 1 |
| Suggestion and criticism box (please specify) | | | | |
| | 651 | 42 | 2 | Total:696 Average=696/ 22 participants/ 11 questions= 2,87 |

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Annex 10. EVENT REPORT

| | |
|----------------------------|---|
| Title of document | Workshop „Establishment of regional academic network in EMAB“ |
| Work Package | 5.4. Workshops at Partner Country HEI/UNTZ |
| Last version date | (28/01/21) |
| Status | Draft Final |
| Document version | v.01 |
| File name | Workshop „Establishment of regional academic network in EMAB- Event report |
| Number of pages | 5 |
| Dissemination Level | Internal |

VERSIONING AND CONTRIBUTION HISTORY

| Version | Date | Revision Description | Partner Responsible |
|----------------|-------------|-----------------------------|----------------------------|
| v.01 | 28/01/21 | First draft | |

LIST OF ABBREVIATIONS

Abbreviations were not used in this report.

Purpose, objectives and elements of event

The aim of this workshop is to present the "Establishment of regional academic network in EMAB ". Participants presented and processed certain thematic units that are crucial for the further development of the project. The aim of the workshop is to present the project to the general public who had access to this workshop.

LIST OF PARTICIPANTS

Date of the 1st day 14/12/20

IUT: Jasmina Kamberović (JK), Dragan Škobić (DŠ), Maja Novković (MN), Biljana Lubarda (BL), Nedžada Tolja (NT), Slavko Smiljanić (SS), Zlatko Mecan (ZM), Selma Otuzbir-Mecan (SOM), Samir Đug (SĐ), Adi Vesnić (AV), Nusret Drešković (ND), Snežana Radulović (SR), Predrag Košutić (PK), Avdul Adrović (AA) On line: Ivana Buj (IB), Marko Miliša (MM), Zoran Marčić (ZM), Anđela Jakšić-Stojanović (AJS), Adriana Planinić (AP), Vladimir Ranđelović (VR) Alma Imamović (AI) – FMPS, Dragojla Golub PMF Banja Luka, Jelena Vičanović – Javna ustanova “Vode Srpske”, Amela Hercegovac – PMF Tuzla, Zorana Lukić - Udruženje za zaštitu prirode i biodiverziteta Via natuae, Olgica Marušić - FPMOZ Mostar, Srdjan Marjanovic - RHMZ Srbije, Beograd, Kenan Nurkovic - Univerzitet u Tuzli, Amela Jusufovic - Udruzenje za zastitu prirode i biodiverziteta 'Via naturae', Dragana Aščerić (student) – UIS, Lejla Sujoldžić - IUT Tavnik, Tanja Mihinjač - Ministarstvo gospodarstva i održivog razvoja, Zavod za zaštitu okoliša i prirode Zagreb, Dženeta Klepić (student) - PMF Tuzla, Nena Tomic - Zavod za hidrometeorologiju i seizmologiju Podgorica, Mirjana Šibalić - Zavod za hidrometeorologiju i seizmologiju Podgorica, Samela Selimović (student) PMF Tuzla, Maja Salkić Smailkadić (student) IUT Travnik, Naida Letić - Ekološki fakultet IUT, Aida Varupa (student) - Internacionalni univerzitet Travnik, Dejan Dmitrović - Prirodno-matematički fakultet Univerziteta u Banjoj Luci, Lejla Karzić - Ekološki fakultet IUT, Zeljka Djurisic - ZHMS Podgorica, Kumrija Sestovic - ZHMS Podgorica, Piljić Vedrana (student) PMF Tuzla, Hana Beba - IUT Travnik, Lucija Raguž - Prirodoslovno-matematički fakultet Zagreb, Amela Mrakić (studenti) Ekološki fakultet IUT, Tanja Maksimović - Univerzitet u Banjoj Luci Prirodno-matematički fakultet, Iva Kolinovic - UDG,

Date of the 1st day 14/12/20

Workshop day 1- participants registration and login, round-table introduction

Regional institutional networking in freshwater ecomonitoring in Bosnia and Herzegovina

/Regionalna institucionalna saradnja u ekomonitoringu voda u Bosni i Hercegovini/

Dr.sc. Jasmina Kamberović, University of Tuzla

Dr.sc. Biljana Lubarda, University of Banja Luka

Students: Dženeta Klepić, Kenan Nurković

Stakeholders in Bosnia and Hercegovina in the freshwater ecomonitoring

Coffee break

Regional institutional networking in freshwater ecomonitoring in

Montenegro

/Regionalna institucionalna saradnja u ekomonitoringu voda u Crnoj Gori/

Dr.sc. Anđela Jakšić-Stojanović, University of Donja Gorica

RStakeholders in freshwater ecomonitoring in Montenegro

Lunch break

ECOBIA highschool networking

/Umrežavanje učenika srednjih škola u okviru Ecobias projekta/

Dr.sc. Nedžada Tolja, International University of Travnik

Coffee break

The platform data base Keywords

/Platformska baza podataka – ključne riječi/

Dr.sc. Dragan Škobić, University of Mostar

Dr.sc. Snežana Radulović, University of Novi Sad

ECOBIA Platform plan/Plan platforme ECOBIAS/

Dr.sc. Nusret Drešković, University of Sarajevo

Dr.sc. Snežana Radulović, University of Novi Sad

Tuesday, 15.12.2020.

Moderators at IUT: Jasmina Kamberović (JK), Dragan Škobić (DŠ), Maja Novković (MN), Nedžada Tolja (NT), Slavko Smiljanić (SS), Zlatko Mecan (ZM), Selma Otuzbir-Mecan (SOM), Samir Đug (SD), Adi Vesnić (AV), Nusret Drešković (ND), Snežana Radulović (SR), Predrag Košutić (PK), Avdul Adrović (AA) On line: Ivana Buj (IB), Zoran Marčić (ZM), Vladimir Ranđelović (VR), Anđela Jakšić-Stojanović (AJS), Adriana Planinić (AP)

Date of the 2nd day

Regional institutional networking in freshwater ecomonitoring in Croatia

**Dr.sc. Ivana Buj, University of Zagreb
Dr.sc. Zoran Marčić, University of Zagreb**

Coffee break

**Calibration exercise in freshwater ecomonitoring
Kalibracijska vježba za ekomonitoring korištenjem ihtiofaune
Dr.sc. Ivana Buj, University of Zagreb**

Coffee break

Stakeholders and policy makers networking for promoting the best practice in freshwater management

/Umrežavanje upravljača vodnim telima u cilju pronalaženja najbolje prakse u ekomonitoringu/

Dr.sc. Slavko Smiljanić, University of East Sarajevo

Lunch break

Regional institutional networking in freshwater ecomonitoring in Serbia

/Regionalna institucionalna saradnja u ekomonitoringu voda u Srbiji/

**Dr.sc. Vladimir Ranđelović, University of Niš
Mr. sc. Olivera Gavrilović, Vojvodina vode, Novi Sad
Stakeholders in freshwater ecomonitoring in Serbia**

Coffee break

Workshop evaluation

**ECOBIA Book Promotion
Biomonitoring akvatičnih ekosistema
University of Sarajevo, 2020.**

CONCLUSIONS

At the end of the workshop on the topic, we can say that it was really successful and that it justified the expectations and fulfilled the set tasks.

The European Commission's support for the production of this publication does not constitute an endorsement of the contents, which reflect the views only of the authors, the Commission cannot be held responsible for any use which may be made of the information contained therein.

WORKSHOP MINUTES

Erasmus + Project No ECOBIAS_609967-EPP-1-2019-1-RS-EPPKA2-CBHE-JP

Development of master curricula in ecological monitoring and aquatic bioassessment for Western Balkans HEIs/ECOBIAS

Meeting: ECOBIAS 1st Workshop „Establishment of regional academic network in EMAB“

Location: International University Travnik in Travnik (B&H), Travnik and on-line participation (Zoom platform), Bosnia and Herzegovina

Date and time: 14th and 15th of December, 2020.

Meeting called by: dr Snežana Radulović, project coordinator

Minutes written by: Maja Novković

Agenda:

| | |
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| Monday 14.12.2020. | <p>ECOBIAS 1st Workshop „Establishment of regional academic network in EMAB“ 14.-15.12.2020, International University Travnik in Travnik (B&H), location: Travnik and on-line participation (Zoom platform), Bosnia and Herzegovina</p> <p>Work Package Leader P8 UNTZ; P7 Task Leader IUT</p> |
| 10:30 – 11.00 | <p>Workshop day 1- participants registration and login, round-table introduction</p> |
| 11.00 – 12.00 | <p>Regional institutional networking in freshwater ecomonitoring in Bosnia and Herzegovina /Regionalna institucionalna saradnja u ekomonitoringu voda u Bosni i Hercegovini/ Dr.sc. Jasmina Kamberović, University of Tuzla Dr.sc. Biljana Lubarda, University of Banja Luka Students: Dženeta Klepić, Kenan Nurković Stakeholders in Bosnia and Herzegovina in the freshwater ecomonitoring</p> |
| 12.00 – 12.15 | <p><i>Coffee break</i></p> |
| 12.15 – 13.00 | <p>Regional institutional networking in freshwater ecomonitoring in Montenegro /Regionalna institucionalna saradnja u ekomonitoringu voda u Crnoj Gori/ Dr.sc. Anđela Jakšić-Stojanović, University of Donja Gorica Stakeholders in freshwater ecomonitoring in Montenegro</p> |

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| 13.00 – 14.00 | <i>Lunch break</i> |
| 14.00 – 14.45 | <p>ECOBIAS highschool networking /Umrežavanje učenika srednjih škola u okviru Ecobias projekta/ Dr.sc. Nedžada Tolja, International University of Travnik</p> |
| 14.15 – 15.00 | <i>Coffee break</i> |
| 15.00 – 16.30 | <p>The platform data base Keywords /Platformaska baza podataka – ključne riječi/ Dr.sc. Dragan Škobić, University of Mostar Dr.sc. Snežana Radulović, University of Novi Sad</p> |
| 16.30 – 18:00 | <p>ECOBIAS Platform plan/Plan platforme ECOBIAS/ Dr.sc. Nusret Drešković, University of Sarajevo Dr.sc. Snežana Radulović, University of Novi Sad</p> |

Minutes: [Monday, 14.12.2020.](#)

Attendees:

IUT: Jasmina Kamberović (JK), Dragan Škobić (DŠ), Maja Novković (MN), Biljana Lubarda (BL), Nedžada Tolja (NT), Slavko Smiljanić (SS), Zlatko Mecan (ZM), Selma Otuzbir-Mecan (SOM), Samir Đug (SĐ), Adi Vesnić (AV), Nusret Drešković (ND), Snežana Radulović (SR), Predrag Košutić (PK), Avdul Adrović (AA)

On line: Ivana Buj (IB), Marko Miliša (MM), Zoran Marčić (ZM), Anđela Jakšić-Stojanović (AJS), Adriana Planinić (AP), Vladimir Randelović (VR)

Alma Imamović (AI) – FMPS, Dragojla Golub PMF Banja Luka, Jelena Vičanović – Javna ustanova "Vode Srpske", Amela Hercegovac – PMF Tuzla, Zorana Lukić - Udruženje za zaštitu prirode i biodiverziteta Via natuae, Olgica Marušić - FPMOZ Mostar, Srdjan Marjanovic - RHMZ Srbije, Beograd, Kenan Nurkovic - Univerzitet u Tuzli, Amela Jusufovic - Udruzenje za zastitu prirode i biodiverziteta 'Via naturae', Dragana Aščerić (student) – UIS, Lejla Sujoldžić - IUT Tavnik, Tanja Mihinjač - Ministarstvo gospodarstva i održivog razvoja, Zavod za zaštitu okoliša i prirode Zagreb, Dženeta Klepić (student) - PMF Tuzla, Nena Tomic - Zavod za hidrometeorologiju i seizmologiju Podgorica, Mirjana Šibalić - Zavod za hidrometeorologiju i seizmologiju Podgorica, Samela Selimović (student) PMF Tuzla, Maja Salkić Smailkadić (student) IUT Travnik, Naida Letić - Ekološki fakultet IUT, Aida Varupa (student) - Internacionalni univerzitet Travnik, Dejan Dmitrović - Prirodno-matematički fakultet Univerziteta u Banjoj Luci, Lejla Karzić - Ekološki fakultet IUT, Zeljka Djurisić - ZHMS Podgorica, Kumrija Sestovic - ZHMS Podgorica, Piljić Vedrana (student) PMF Tuzla, Hana Beba - IUT Travnik, Lucija Raguž - Prirodoslovno-matematički fakultet Zagreb, Amela Mrakić (studenti) Ekološki fakultet IUT, Tanja Maksimović - Univerzitet u Banjoj Luci Prirodno-matematički fakultet, Iva Kolinovic - UDG,

Meeting was opened at 10:30h by Zlatko Mecan, IUT project administrator.

AGENDA ITEM 1 – Regional institutional networking in freshwater ecomonitoring in Bosnia and Herzegovina

JK gave the presentation about institutional framework in freshwater ecomonitoring in Bosnia and Herzegovina and explained legal competences of ministries of Bosnia and Herzegovina (BiH), as well of ministries of Federation BiH (FBiH) and Republic of Srpska (RS), and cantonal ministries in Federation BiH. Water management supreme instances of BiH are Ministry of Foreign Trade and Economic Affairs of BiH and Ministry of Communications and Transport of BiH, while Ministry of Agriculture, Forestry and Water Management of Republic of Srpska and Ministry of Agriculture, Forestry and Water Management of Federation BiH carries out the administrative, expert and other tasks set out by the laws (Water Law, Law on Water) applicable to the scope of of water-management on entity level.

JK explained that waterbodies of BiH belong to the nine river basins: Una, Vrbas, Bosna, Drina, Trebišnjica, Neretva, Cetina and Krka, Glina and Korana which constitute two main water basins: Sava River Basin and Adriatic Sea Watershed.

JK presented the institutional framework in water management in Federation BiH: Ministry of Agriculture, Forestry and Water Management of Federation BiH, Sava River Basin Agency and Adriatic Sea Watershed Agency and explained their interconnectivity and legal jurisdictions. Afterwards she presented water related expert institutions on entity level and cantonal ministries in Federation BiH. JK pointed out that there are also three levels of waterbodies inspectional services: federal and cantonal inspectorates and cantonal inspection services. JK gave the review of existing water legislative and management programmes, together with current ecomonitoring methodologies and level of cooperation between water related institutions in FBiH. (Presentation attached)

Alma Imamović (FMPS) gave the presentation about surface and groundwater monitoring scheme in Adriatic Sea Watershed basin and the Sava River Basin. (Presentation attached)

BL gave the presentation about institutional framework in water management domain in Republic of Srpska. She explained jurisdiction of each presented institution: Ministry of Agriculture, Forestry and Water Management of Republic of Srpska, Republic Hydrometeorological Service and Public Institution "Vode Srpske", as well as Republika Srpska Inspectorate. Afterwards BL presented water related expert institutions on entity level in Republic of Srpska. In the end she explained institutional collaboration between Republic of Srpska and Federation BiH, and also with the neighboring states Croatia, Serbia and Montenegro. (Presentation attached)

Jelena Vičanović (PI "Vode Srpske") joined the discussion and additionally explained water management jurisdictions in Republic of Srpska. She explained that roof legal document is Water Law/Law on Water (2006) and umbrella institution is Ministry of Agriculture, Forestry and Water Management of Republic of Srpska. Afterwards she explained that Public Institution "Vode Srpske" develops monitoring programs in accordance with Law on Water, on the basis of which the Ministry announce the public tenders for the needs of surface and groundwater monitoring. JV also stated that since 2003 PI "Vode Srpske" collaborates with International Commission for the Protection of the Danube River (ICPDR) and conducts water monitoring on 9 sampling profiles, as part of The TransNational Monitoring Network.

Dženeta Klepić and Kenan Nurković, students of the Faculty of Science, University of Tuzla gave the presentation about job opportunities in Federation BiH for students after finishing the masters studies in Ecological Monitoring and Aquatic Bioassessment. They have presented nine companies directly involved in water ecomonitoring process. (Presentation attached)

AGENDA ITEM 2 – Regional institutional networking in freshwater ecomonitoring in Montenegro

AJS gave the presentation about University of Donja Gorica and introduced Nena Tomić, head of Water Quality Department of Institute for Hydrometeorology and Seismology of Montenegro. Nena Tomić presented water management institutional framework and explained water monitoring process in Montenegro. Afterwards Nena Tomić also introduced the members of Laboratory for Water Quality, and explained their responsibilities in the water monitoring process. NT also presented some of the problems they are facing in water ecomonitoring process, such as the lack of experts, as well as adequate laboratories and equipment.

AGENDA ITEM 3 – ECOBIAS high school networking

NT gave the presentation about workshops realized in several high schools in Travnik. Workshops were held in the form of round table. Students were asked to write down their associations to the term "river". Words that were most often mentioned are: junk, messy, pollution, high water turbidity, unpleasant smells, the murmur of water, PVC, discomfort, an accident. Word that were rarely mentioned are: peace, nature, potential, fish, health, drinking water, life, ecosystem, vacation, freshness. Since students generally had negative associations with the term "river", they were asked to write down the main cause for river deterioration and such negative correlations, they unanimously agreed: human. Finally, they were asked to write down their propositions for actions and measures which could help to get the condition of rivers and lakes to the good ecological status. Some of most mentioned actions and measures were: strengthening of the water management related institutions, introduction of punitive measures, installation of surveillance cameras on specific locations, ban on construction of mini hydro power plants, restocking of rivers fish fond, employment of the environmental protection experts in water related institutions, setting up the motivational messages on the river banks, public support for the environment protection projects and programs. (Images attached)

AGENDA ITEM 4 - The ECOBIAS platform data base Keywords

DŠ gave the presentation about survey conducted among ECOBIAS partner institutions. Namely, each institution was asked to send the list of the keywords best describing their research area in the domain of ecological monitoring and aquatic bioassessment. DŠ presented the analyses which showed most important keyword for each institution and for the consortium in general. (Presentation attached)

SR, ND and JK joined the discussion about further actions in ECOBIAS platform development. SR proposed that existing lists of keywords per institutions should be revised by the WP3 team in the next two weeks and afterwards sent back to the partners' institutions coordinators for the approval. Everybody agreed.

AGENDA ITEM 5 - ECOBIAS Platform plan

SR proposed that node level 1 of ECOBIAS platform interface should follow the keywords scheme, because in that way experts with similar research area will be collocated within the platform. ND, JK, DŠ and MN joined the discussion about ECOBIAS platform website structure, namely second and third node levels. In general everybody agreed that keywords should lead to the specific expert group, that each expert within the group should have their own personal page which should contain basic info about their research area and expertise, link to the ResearchGate profile or personal web presentation and links to the ECOBIAS courses' profiles they are related with.

Group also discussed registration form and profile types for the external platform members, and form of members communication within the platform.

Agenda:

| Tuesday 15.12.2020 | |
|-----------------------|---|
| 10.00 – 10.15 | Workshop day 2- participants registration and login, roundtable introduction |
| 10:15 – 10.45 | Regional institutional networking in freshwater ecomonitoring in Croatia Dr.sc. Ivana Buj, University of Zagreb Dr.sc. Zoran Marčić, University of Zagreb |
| 10.45 - 11.00 | <i>Coffee break</i> |
| 11.00 - 11.45 | Calibration exercise in freshwater ecomonitoring Kalibracijska vježba za ekomonitoring korištenjem ihtiofaune Dr.sc. Ivana Buj, University of Zagreb |
| 11.45 – 12.00 | <i>Coffee break</i> |
| 12.00 – 13.00 | Stakeholders and policy makers networking for promoting the best practice in freshwater management /Umrežavanje upravljača vodnim telima u cilju pronalaženja najbolje prakse u ekomonitoringu/ Dr.sc. Slavko Smiljanić, University of East Sarajevo |
| 13.00 – 14.00 | <i>Lunch break</i> |
| 14.00 – 14.45 | Regional institutional networking in freshwater ecomonitoring in Serbia /Regionalna institucionalna saradnja u ekomonitoringu voda u Srbiji/ Dr.sc. Vladimir Ranđelović, University of Niš Mr. sc. Olivera Gavrilović, Vojvodina vode, Novi Sad Stakeholders in freshwater ecomonitoring in Serbia |
| 14.15 – 14.30 | <i>Coffee break</i> |
| 14.30 – 15.00 | Workshop evaluation |
| 15:00 – 17:00 | <p style="text-align: center;">ECOBIAS Book Promotion</p> <p style="text-align: center;">Biomonitoring akvatičnih ekosistema University of Sarajevo, 2020.</p> <p style="text-align: center;">Autori:</p> <p style="text-align: center;">Samir Đug, Nusret Drešković, Sadbera Trožid-Borovac, Aldijana Mušović, Adi Vesnić, Sabina Trakić, Mahir Gajević, Renata Bešta-Gajević, Senad Šljuka, Ranko Mirić, Enad Korjenić, Rifat Škrijelj</p> <p style="text-align: center;">Recenzenti:</p> <p style="text-align: center;">Dr. sc. Avdo Sofradžija, profesor emeritus, Univerzitet u Sarajevu Dr. sc. Snežana Radulović, redovni profesor, Univerzitet u Novom Sadu</p> <p style="text-align: center;">Dr.sc. Samir Đug, Dr.sc. Nusret Drešković, Dr.sc. Snežana Radulović</p> |

Minutes: [Tuesday, 15.12.2020.](#)

Moderators at IUT: Jasmina Kamberović (JK), Dragan Škobić (DŠ), Maja Novković (MN), Nedžada Tolja (NT), Slavko Smiljanić (SS), Zlatko Mecan (ZM), Selma Otuzbir-Mecan (SOM), Samir Đug (SĐ), Adi Vesnić (AV), Nusret Drešković (ND), Snežana Radulović (SR), Predrag Košutić (PK), Avdul Adrović (AA) On line: Ivana Buj (IB), Zoran Marčić (ZM), Vladimir Randelović (VR), Anđela Jakšić-Stojanović (AJS), Adriana Planinić (AP)

AGENDA ITEM 1 – Regional institutional networking in freshwater ecomonitoring in Croatia

ZM gave the presentation about implementation of WFD in Croatia, focused on monitoring process of one biological parameter of ecological quality – fish.

ZM presented monitoring stations scheme in Croatia and also three years' round station rotation. There are about 450 monitoring stations in total, but monitoring is conducted on about 150 sampling points per year. ZM also explained standardised methods for fish monitoring which are used in Croatia and European Union, including process of sampling point selection and sampling method implementation. ZM explained differences between methods for lentic and lotic aquatic habitats, and also different waterbodies types. (Presentation attached)

AGENDA ITEM 2 – Calibration exercise in freshwater ecomonitoring

IB gave the presentation about Water Framework Directive implementation in Croatia and development of ecological classification systems based on one biological parameter of ecological quality status (EQS) – fish.

IB explained ecological classification system development workflow: fieldwork (acquiring the data about biological and environmental parameters) > biological and environmental parameters metrics calculation > determination of relations between pressures and recipients' answers > quality ratio calculations of selected metrics > calculation of the ecological status index > intercalibration.

IB explained ecomonitoring process workflow: fieldwork (acquiring the data about biological and environmental parameters) > determination of suitability of different fish metrics for ecological status index calculation > calculation of the ecological status index.

IB performed a demonstration of the index calibration process for determining the ecological status of waters based on fish as biological quality element in ecological status assessment.

(Presentation attached)

AGENDA ITEM 3 – Stakeholders and policy makers networking for promoting the best practice in freshwater management

SS gave the presentation about networking of stakeholders, policy makers and waterbodies managers in order to promote the best surface water management practices. SS presented and explained Integral Water Management as an example of good practice in water management, and explained BAT (Best Available Technology) and BAP (Best Agriculture Practice) concepts as procedures that can indirectly contribute to the establishment of best practices in water resources management. SS explained institutional framework in water management from state to local level and pointed out the importance of institutional vertical and horizontal collaboration.

AGENDA ITEM 4 – Regional institutional networking in freshwater ecomonitoring in Serbia

SR explained institutional framework in water management in Serbia and pointed out collaboration between the water management agencies and educational and scientific organisations. SR introduced Olivera Gavrilović (OG) from Public Water Management Company “Vode Vojvodine”. OG explained organisational scheme of water management in Serbia. Ministry of agriculture, forestry and water management - Republic Directorate of Water is responsible for integrated water management in Serbia through two public water management companies: “Vode Vojvodine” and “Srbija Vode”, as well as Republic Hydrometeorological Service of Serbia. She also presented PWMC “Vode Vojvodine”, their jurisdiction and activities. Afterwards she presented strategic planning document “Strategy of water management on the territory of the Republic of Serbia until 2034” and reviewed current situation in water management in Serbia.

AGENDA ITEM 5 - ECOBIAS Book Promotion

As one of the book reviewers SR opened the ECOBIAS Promotion of the “*Biomonitoring akvatičnih ekosistema*” (Biomonitoring of aquatic ecosystems) monography and ECOBIAS textbook. SR shortly introduced the audience with the book concept and authors, and gave the word to the book authors Samir Đug and Nusret Drešković. SĐ and ND presented the book, introduced the audience with the book content (chapters and leading concepts) and authors team.



ECOBIAS

*Development of master curricula in
ecological monitoring and aquatic
bioassessment for Western Balkans HEIs*

- ▲ University of Novi Sad
- ▼ University of Niš
- ▲ University of Zagreb
- ▼ University of Duisburg-Essen
- ▲ University Donja Gorica
- ▼ University of Mostar
- ▲ International University Travnik
- ▼ University of Tuzla
- ▲ University of Sarajevo
- ▼ University of Banja Luka
- ▲ University of East Sarajevo

Co-funded by the
Erasmus+ Programme
of the European Union









Jelena Vicanovic...



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HOME

Selma Otuzbir



meje.emalkadic

Dragana Ascevic

Anela Mrabic



Snijana Marjanovic

Galaxy A55

Tanja Skrbnjak



Dejan



Vasa Selar



Marijo Nikolic



Silvana Kraljic S.

Iva Katicinovic



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Jasmina Kamberovic

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Nena Tomic ZHMS CG

Amela Hercegovac

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Lejla Karzic

aida.varupa

Dejan

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andjela

Hana Beba

Maja Novkovic

Alma Imamovic

Mecan Zlatko

Dragana Asceric

Galaxy A50

Ana

Marko Miliša

Zorana Lukic

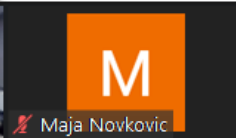
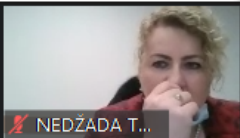
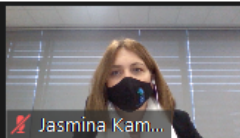
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Lejla Sujoldžić

Dzeneta Klepic

Edina Hajdarević

Adriana Planinić



Dejan Dmitrović



Development of master curricula in ecological monitoring and aquatic bioassessment for Western Balkans
HEIs/ECOBAS

The Platform Data Base - Kaywords

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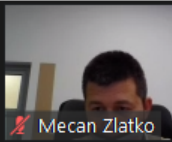
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Snežana Radulović, PhD (University of Novi Sad)

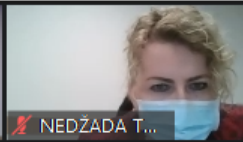
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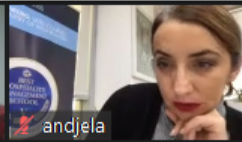
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Mecan Zlatko



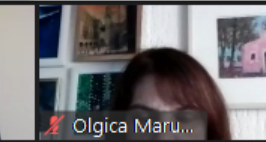
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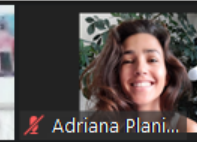
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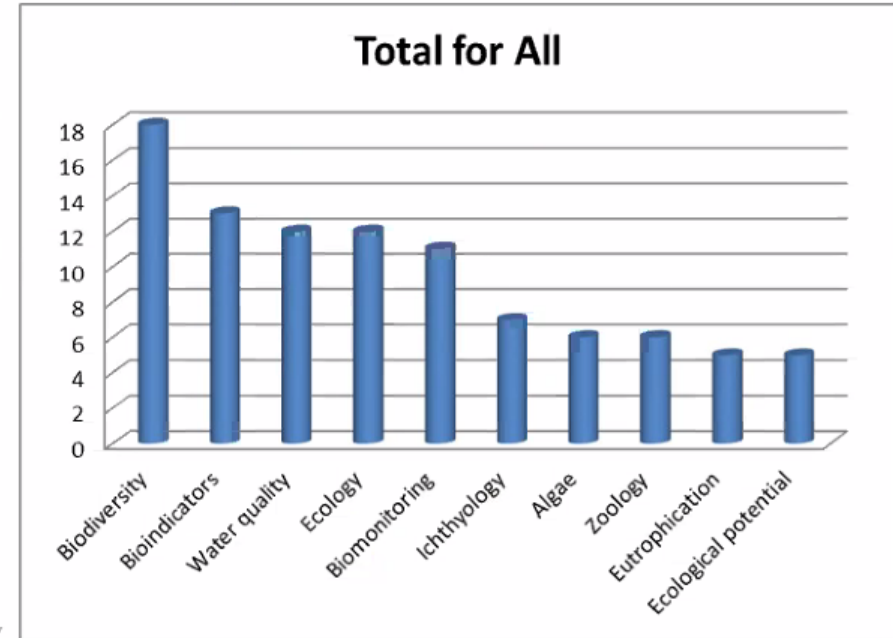
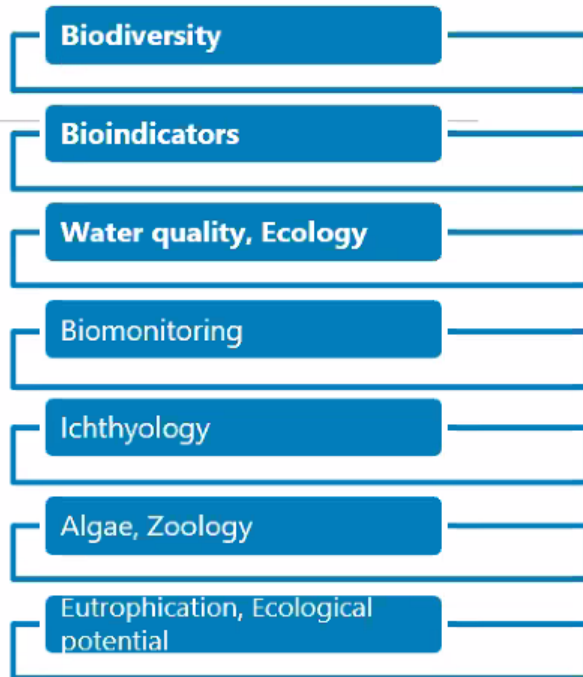


Adriana Plani...



Development of master curricula in ecological monitoring and aquatic bioassessment for Western Balkans HEIs/ECOBAS

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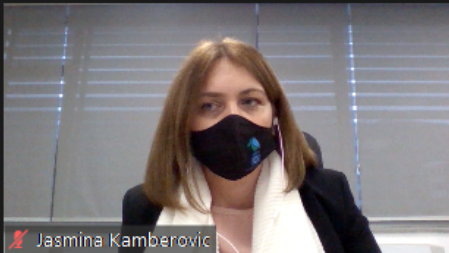


Workshop:

The Platform Data Base - Keywords



Mecan Zlatko



Jasmina Kamberovic



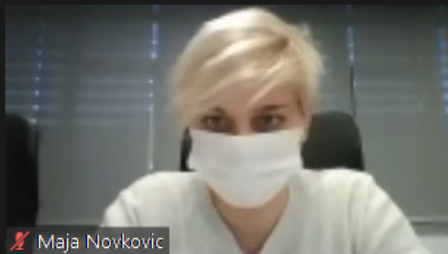
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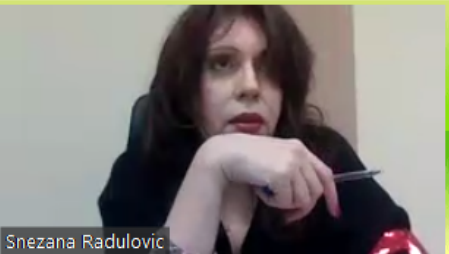
Maja Novkovic



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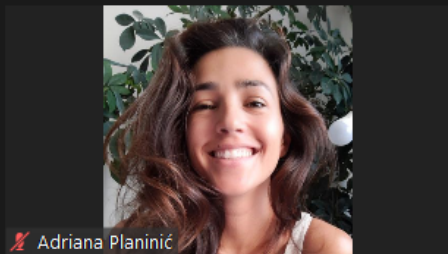


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Snezana Radulovic

Olgica Marusic



Adriana Planinic

Selma Otuzbir

Amela Mrakic

Iva Kolinovic

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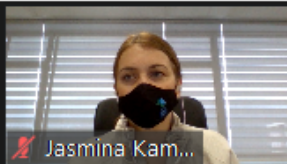
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Dejan Dmitrović

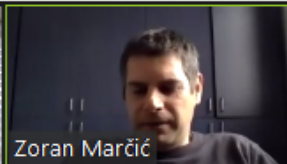
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Lucija Raguz

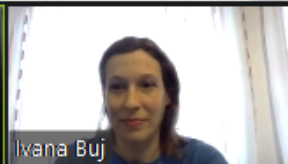
Ivana Buj



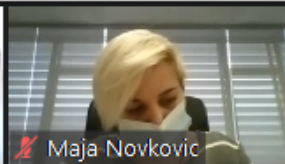
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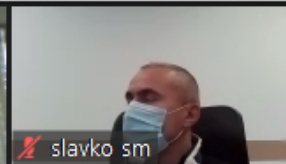
Zoran Marčić



Ivana Buj



Maja Novkovic



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Edina Hajdar...



Regional institutional networking in freshwater ecomonitoring in Croatia Fish sampling

Ivana Buj Travnik 15. prosinca 2020.

Zoran Marčić

Radionica
Uspostavljanje regionalne akademske mreže
u ekološkom monitoringu i biološkoj
procjeni akvatičnih ekosistema (EMAB)

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- biološki element ribe

Zašto ribe?

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- taksonomija, ekologija i životni ciklusi dobro poznati
- koriste široki raspon staništa i trofičkih razina
- razumljive i „nestručnjacima“ zbog ekonomske važnosti i ljepote

