



Food and Agriculture Organization  
of the United Nations



## ***FINAL REPORT***

**Prague,  
Czechia,  
4-6 September 2017**

### **EUROPEAN FORESTRY COMMISSION**

**Working Party on the Management of Mountain  
Watersheds**

**Thirty first session**

## INTRODUCTION

1. The 31st Session of the EFC Working Party on the Management of Mountain Watersheds (EFC WPMMW) was held in Prague, Czechia. The session was held from the 4 to 6 of September 2017 and was jointly organized by the Czech Technical University and FAO. The main topic under discussion during the seminar and the national reports was “**Management of municipal watersheds in mountain regions**”. The session program is presented in ANNEX A.
2. On 6 September 2017 the hosts of the session organized a study tour.
3. The session was attended by delegates, lecturers and observers from the following countries and international organizations: Austria, Azerbaijan, Canada, Czechia, Finland, France, Hungary, Israel, Italy, Japan, Poland, Slovenia, Spain, Switzerland, United Kingdom, United States and FAO. The list of participants can be found in ANNEX B.
4. All presentations will be available for download at the website of the WPMMW and in the FAO meeting repository.

## OPENING OF THE SESSION

5. Welcoming words were delivered by Josef KRECEK (Czech Republic) and Peter CSOKA (FAO). Josef KRECEK welcomed the participants on behalf of the Czech Technical University and the Czech Ministry of Education. Peter Csoka recognised Thomas Hofer for his work for WPMMW and welcomed the participants on behalf of the Secretariat of the WPMMW and FAO. (Thomas Hofer has transferred to at FAO/RAP in Bangkok from September 2017. P. CSOKA will as ad interim Secretary of the EFC WPMMW until the position of the Thomas HOFER is filled.)

He further emphasized the importance of the Working Party in the context of the broader landscape approach which receives increasing attention on international level. He further reported that based on the activity report of the WPMMW at the last session of the EFC in 2015, the European Forestry Commission had recognized the work of the WPMMW and also highlighted the increasing importance of the work regarding the watershed approach and especially on natural hazard risk management.

Josef KRECEK thanked the Ministry of Education for hosting the 31<sup>st</sup> session of the WPMMW and thanked all the participants for coming to Prague to attend this meeting to discuss on the important topic of “Management of municipal watersheds in mountain regions”.

## ADOPTION OF THE AGENDA

6. The agenda (ANNEX A) was adopted as presented.

## TECHNICAL SESSION: MANAGEMENT OF MUNICIPAL WATERSHEDS IN MOUNTAIN REGIONS

### The Jaroslav Balek Memorial Headwater Session

7. **Jiří KREMSA** (Povodí Labe , Hradec Králové) presented *Development of water reservoirs in the Jizera Mountains*

8. **Petr NAVRÁTIL** (Forest Management Institute, Jablonec n.N.) presented *Forestry practices on waterlogged sites in mountain watersheds*

9. **Eleni DIMELISOVÁ** (Charles University, Prague) presented *Possibilities and limits in the management of mountain watersheds: lessons from the Maya civilization*

10. Following the decision of the 30<sup>th</sup> session, that student contributions should be integrated in the main program to ensure the visibility of their work, the first set of presentations was followed by short presentations of students from the Czech Technical University:

- **Ladislav PALÁN**
- **Eva PAŽOURKOVÁ**
- **Jiří VRTIŠKA**

12. After the presentations, the discussion comprised detailed questions to all presenters on the role of water reservoirs in flood control and drinking water supply, climate change indicated by dendrochronology, maintenance costs of forest ameliorations, ditches, costs /funding of maintenance for mountain watersheds in Czechia; sedimentation rates and their measurement in the Jizera mountains. In addition, the lessons learned from the Maya civilization indicated a relatively high level in hydraulic engineering (with signs of modern participatory approach), but a lack in hydrological analysis and watershed planning which contributed to the collapse of the historical Maya centres.

### Headwater control and policy development

13. **Steven McNULTY** (USDA, Forest Service) presented *Relevancy of mountain based experimental forest catchments for management and policy development for the 21st century*

14. **Moshe GOPHEN** (Lake Kinneret Survey, Israel) presented *Integrated environmental monitoring and headwater management of the Lake Kinneret ecosystem*

15. **Karsten SCHULZ** (BOKU, Vienna, Austria) presented *Hydrological modelling in the anthroposphere: Predicting local runoff in a heavily modified high-alpine catchment*

16. **Andrej HOČEVAR** (University of Ljubljana, Slovenia) presented *Mountain watersheds: actions to cope with climate change caused disasters*

17. **Hans SCHREIER** (University of British Columbia, Canada) presented *Adapting to the combined effects of increased climatic variability and land use changes on water resources in mountain communities in Canada*

18. The discussion after this set of presentations evolved around consequences and potential strategies to overcome water scarcity with forest management, e.g. thinning stands; how to support the population affected by droughts. Furthermore, the advantages and disadvantages of fires and the respective management plus tree resilience versus effectivity were discussed.

### **Environmental services and citizen science in the management of mountain watersheds**

19. **Martin HAIGH** (Oxford Brookes University, UK) presented *Environmental impacts of land reclamation after coal mining in headwaters of Wales*

20. **Adam KERTESZ** (Hungarian Academy of Science, Budapest, Hungary) presented *Erosion in the forest induced by anthropogenic activities*

21. **Eero KUBIN** (University of Oulu, Finland) presented *Environmental impact of forest practices in the middle-boreal zone, Finland*

22. **Steven LOISELLE** (Earthwatch Institute, Oxford, UK) presented *Citizen scientists and freshwater ecosystem research*

23. **Christin HAIDA** (Alps, Innsbruck, Austria) presented *From Water Footprint to climate change adaptation: capacity development in mountain regions*

24. After this set of presentations the discussion evolved around the long term effect of the project on Water Footprint and questions related to data rights in the context of community science; why it is important to include people in the process not only as supporters and also train them accordingly; furthermore, the question on forest harvesting versus the need for increased green cover and if this is a contradiction to the Paris Agreement was discussed intensively.

## **WORKING PARTY ACTIVITIES ON BALANCING ECOSYSTEM SERVICES IN HEAD WATERSHEDS**

### **OBSERVER REPORTS**

25. **Erika PENZESNE KONYA** (University of Eger, Hungary) presented *Water management and environmental education: Programmes and themes in the Hungarian education*

26. **Lorenzo MARCHI** (CNR IRPI, Padova, Italy) presented *GIS tools for preliminary debris-flow hazard assessment at regional scale*

27. **Antonio JOSE TEIXEIRA GUERRA** (Federal University of Rio de Janeiro, Brazil) presented *Soil erosion monitoring and land degradation in mountain areas of São Paulo State Park, Brazil* (in absence this was presented by **Michael FULLEN**)

28. **Michael FULLEN** (Wolverhampton University, UK) presented *Agro-environmental Sustainability of the Yuanyang Rice Terraces in Yunnan Province, China*

29. **Hideaki MARUI** (Niigata University, Japan) presented *Relationship between water quality and ground condition of earthquake-induced landslide areas in a mountain watershed*

30. **Farda IMANOV** (University of Baku, Azerbaijan) presented *A method to determine ecological flows: A case study for mountainous Ganjachay River in Azerbaijan*
31. **Antonio DEL CAMPO** (Universitat Politècnica de València, Spain) presented *Integrated management of forests and water in semiarid catchments: changing to a tangible and quantifiable approach*.
32. The discussion after this set of presentations evolved around questions regarding reasons for drop-out of students from environmental studies; detailed questions on reasons for landslides and the role of vegetation cover, as well as precipitation and evapotranspiration rates in the context of rivers that are used for irrigation; also, the importance of considering fire risk in studies on forest hydrology and thinning was underlined.

### NATIONAL REPORTS

33. **Piermaria CORONA**, Il Consiglio per la ricerca in agricoltura e l'analisi dell'economia agraria (CREA), presented the *Italian National Report*.
34. **Thomas FINK**, Federal Ministry of Agriculture, Forestry, Environment and Water, presented the *Austrian National Report*.
35. **Josef KREČEK**, Professor, Czech Technical University in Prague, presented the *Czech National Report* on “*Management on Mountain Watersheds in the Czech Republic*”.
36. **Eero KUBIN**, Luke National Resources Institute Finland, presented the *Finnish National Report*.
37. **Alison EVANS** on behalf of **Olivier MARCO**, Office National des Forêts (ONF)/Restauration des Terrains en Montagne (RTM), presented the *French National Report*.
38. **Edward PIERZGALSKI**, Professor, Polish Forest Research Institute (IBL), presented the *Polish National Report* which he jointly prepared with Piotr Kowalczyk and Marcin Jachym.
39. **Benjamin LANGE**, Federal Office for the Environment FOEN, Hazard Prevention Division, Bern, presented the *Swiss National Report*.
40. The national reports plus the presentations will be available for download at the website of the WPMMW and in the FAO meeting repository
41. Further interventions on issues of importance from Hungary (Adam Kertesz, Hungarian Academy of Science), Israel (Moshe Gophen, Migal), Slovenia (Andrej Hočevár, University of Ljubljana) and UK (Martin Haigh, Oxford Brookes University) were delivered under this agenda item.

### REPORT ON WPMMW ACTIVITIES AND OPERATIONAL MATTERS

42. The report of Working Group I (WGI) Forest & Water was presented by Eero KUBIN. The critical themes in WGI are the role of forests in landscape ecology for soil and water conservation and impacts of forest management on water-related ecosystem services, mainly water quality and quantity.

Thereby the Working Group I also focuses on participatory watershed management, citizen science and active citizenship and education.

In 2017 the Working Group I published a book on Ecosystem services in headwater catchments (Springer) and contributed extensively to drafting the agenda for the 31<sup>st</sup> session of the WPMMW. Further the group held two meetings to design the work and implementation plan of the activities of WG I.

In the context of WGI several projects such as the INTER-EXCELLENCE project: INTER-COST LTC 17006, 2017 or the COST action CLIMO (2016 – 2020) on Climate-smart forestry in mountain regions were initiated. Working Group members also informed about several national initiatives which were influenced by the activities of the Group.

43. Working Group II “Hazards and Disaster Risk Management (DRM) in Mountains” focuses its work on the relationship between forests, water and hazards occurring in mountainous regions. For the period 2016-2017, WGII’s activities focused mainly on exchanging technical knowledge. In this sense, two workshops were conducted in May 2016 in Austria and one in June 2017 in France. These workshops focused on exchanges among practitioners on concrete examples or challenges. Based on the feedback of the workshop conducted on the prior period and the one in 2016 the format of the workshop was adapted and tailored to the needs expressed by the practitioners. This format comprised the elaboration of potential solutions in expert groups and the discussion of the latter which enables a fruitful exchange of different options and thereby enhances development of new ideas for natural hazard management.

Experts / practitioners involved in the two workshops came from Albania, Austria, Germany-Bavaria, France, Italy – Bolzano, Turkey and Switzerland. According to the feedback participants appreciate the knowledge exchange, the field component and the joint elaboration of potential solutions.

Results of the workshops are available on the website and disseminated widely through WGII and the participants of the workshop.

The next practitioner workshop is already set and will take place from 11 to 13 of June 2018 in Upper Austria (Traunkirchen) on the topic of "*Effects of forest and check dams in water surface, bedload input and debris earth flow in alpine watersheds - Case study of an alpine torrent catchment*". WG2 lead partners invite therefor focal points to share the information within their institutions/contacts.

44. Alison EVANS on behalf of the French Focal Point thanked Maria PATEK for her dedicated work in the WPMMW and especially for the good collaboration in the Working Group II.

## **REPORT ON INTER-SESSIONAL ACTIVITIES FOLLOWING THE 30<sup>TH</sup> SESSION**

45. Elaine SPRINGGAY reported on the Forest & Water Programme of FAO and highlighted potential areas of collaboration with the WPMMW. She detailed the global processes going on in the field of Forest & Water, the programme’s priorities, in particular highlighting the Forest & Water Monitoring Framework as a potential area of collaboration with the WPMMW.

46. Catrin PROMPER (Secretariat of the EFC WPMMW) reported on the inter-sessional activities of the Secretariat conducted since the 30<sup>th</sup> session in 2015.

- a) Before the report an overview of the current nominated Focal Points was given; it was highlighted that it is very important to hand over duties in case of changes in circumstances (e.g. change in job, retirement, etc.) and that the commitment of the members to the WPMMW is crucial. Additionally it was presented how the Secretariat can support the implementation of the work plans of the Working Groups and the chair of the WPMMW.
- b) Activities that took place since the 30<sup>th</sup> session in Italy:
- In the period 2016 – 2017 two steering committee meetings of the Working Party were organized. The meeting in 2016 in Rome focused on the work plans of the two Working Groups (WG) whereas the one in 2017 in Prague focused on the preparation of the 31st session. The main outcomes of these meetings were presented.
  - Continuous updating of website and communication activities.
  - Report for the Joint session of the 39th European Forestry Commission – 74th UNECE Commission on Forest and the Forest Industry was prepared
- c) Preparations for the 31st session:
- Session planning with the hosts of the Czech Republic and Steering Committee;
  - Invitation to countries via national heads of Forest Services (EFC members);
  - Follow up with countries;
  - Coordination with the hosts of the Czech Republic.
- d) For the discussion on all activities Catrin PROMPER briefly repeated the main points of the Governance and Strategy to the participants at the end of the presentation of the Secretariat

47. After the presentation by the Secretariat of the WPMMW the following items were discussed:

- a) Participation / Representation of countries

Based on the proposal by the secretariat it was agreed that depending on the outcome of the EFC deliberations the chair of the WPMMW would write to countries to encourage participation of countries in the WPMMW, as only 7 of 17 focal points participated in the Session; Anthony DUBOIS highlighted that there were people active in the workshops and activities of the Working Groups, however the link to the Focal Point was not always clear and sometimes missing;

The SC was encouraged to support and engage in the discussion with new countries; guidance from the SC is needed on how the Focal Points can operate / disseminate information and how to link better technical outputs and knowledge, and the Focal Points.

- b) Status of new strategy of the WPMMW

The secretariat suggested considering a review of the strategy in light of new global priorities, including a suggestion of the main directions for the future; it was concluded that this will be followed up in the next SC meeting.

c) Communication / news format and annual report

The proposal of the SC to change from newsletter format to short news and announcements via the email list plus an annual report to be prepared at the beginning of each year for the previous year was adopted. The following structure was agreed on:

- Report of the Secretariat
- News on international processes
- Report of Working Groups
- References to products of the WPMMW

d) Any other feedback / questions / comments

As the topic of Urban Forestry was raised a few times during the session and it was also noted that it would be discussed by the Asia Pacific Forest Commission and also in the Near East Forestry and Range Commission (in addition the North American Forest Commission has a working group on Urban Forestry), it was suggested to explore the opportunity for ad-hoc collaborations on this topic between the WPMMW and the Working Group of the NAC. It was further noted that if the topic of Urban Forestry would be taken up in COFO (Committee on Forestry) in 2018 the WPMMW could bring in the knowledge of the European region on this topic.

Themes of 2018 International Day of Forests and International Water Day are forests for sustainable cities and nature-based solutions for water management, respectively. As both themes are closely related and involve forests in mountain watersheds, there is an opportunity to showcase forestry and more specifically mountain forestry in Europe. The Secretariat was tasked by the Working Party to explore opportunities for 2018 to showcase the work of the WPMMW

48. The Working Party took the following decisions:

- a) Josef KRECEK, Czechia, will chair the WPMMW until the next session in 2019

The outgoing Chair, Piermaria CORONA expressed his gratitude to Thomas HOFER for all his dedicated work for the WPMMW, and also thanked the Secretariat for its contribution. He also thanked Eero KUBIN for his work in the WPMMW and expressed his recognition for the longstanding contributions and measurements in the field. The Working Party thanked the outgoing Chair for his leadership during his tenure.

- b) Based on the Governance and Strategy the Steering Committee will remain in its current composition:
- hosts of the last two sessions (Italy and Czechia)
  - host of the future session (currently vacant)
  - lead country of WGI (Finland)
  - lead country of WGII (Austria and France)

49. The 32<sup>nd</sup> Session will be held in 2019. Date and place for the next session needs to be clarified. The Chair and the Secretariat will follow up on this. All members are invited to volunteer for hosting the 32<sup>nd</sup> session of the WPMMW in 2019.



## **ANY OTHER MATTERS**

50. The following announcements and items were collected in other business:

- a) Presenters agreed that all presentations would be uploaded on the website of the WPMMW as .pdf files.
- b) Focal points were asked to provide the national reports to the Secretariat in order to upload them on the website of the WPMMW and the FAO meeting repository.
- c) The formal report will be prepared in English for comments and then translated to other official languages.
- d) It was noted that urban areas are important to look at from a forestry perspective and that this might be a good opportunity to engage in this topic for the WPMMW. The Secretariat added that the World Forum on Urban Forestry, co-organized by FAO, will probably take place in autumn 2018 in Mantova. The WPMMW could establish a contact to the organizers in order to collaborate on this event. Further a reference on can be made here.

## **CLOSING OF THE SESSION**

51. In his closing remarks, Peter CSOKA thanked all presenters and expressed high appreciation for the richness of the content and discussions. He stressed the growing importance of the landscape approach and acknowledged the WPMMW pioneering role in this area.

Participants thanked Czechia for hosting the 31st session and expressed warmest appreciation to Josef Krecek, and his colleagues for the preparation of this meeting

Chair Josef KRECEK thanked all participants for their participation and presentations and the Secretariat for supporting the preparation and facilitation of the session, and He closed the 31st session

52. The study tour on 6 September 2017 gave an introduction to the region of Jizeraa Mountains at the border between Czechia, Germany and Poland. Participants visited water reservoirs of Josefův Důl and Souš; problems of the management of mountain forests were introduced in consequences of drinking water supply, flood control and climate changes. International aspects of air pollution and the acid atmospheric deposition were also discussed.

## Annex A



**31st session of EFC  
Working Party on the Management of Mountain Watersheds  
Prague (Czech Republic), September 4-6, 2017**

Monday (September 4)

Technical session:  
**Management of municipal watersheds in mountain regions**

9:30 – 10:00 Registration

10:00-10:20 **Welcome address:** *Peter Csoka* (FAO) & *Piermaria Corona* (WPMMW)

10:20-12:00 **"The Jaroslav Balek Memorial Headwater Session"**  
Chair: *Josef Křeček* (*Czech Technical University in Prague*)

10:20 **Jiří Kremsa** (Povodí Labe , Hradec Králové)  
Development of water reservoirs in the Jizera Mountains

10:40 **Petr Navrátil** (Forest Management Institute, Jablonec n.N.)  
Forestry practices on waterlogged sites in mountain watersheds

11:00 **Eleni Dimelisová** (Charles University, Prague)  
Possibilities and limits in the management of mountain watersheds: lessons from the Maya civilization

11:20 Picopresentations of students: **Ladislav Palán, Eva Pažourková, Jiří Vrtiška**

11:40 – 12:00 Discussion

12:00 – 13:00 *Lunch*

13:00-14:40 **Headwater control and policy development**  
Chair: *Eero Kubin* (*University of Oulu, Finland*)

13:00 **Steven McNulty** (USDA, Forest Service)  
Relevancy of mountain based experimental forest catchments for management and policy development for the 21<sup>st</sup> century

13:20 **Moshe Gophen** (Lake Kinneret Survey, Israel)  
Integrated environmental monitoring and headwater management of the Lake Kinneret ecosystem

13:40 **Karsten Schulz** (BOKU, Vienna, Austria)  
Hydrological modelling in the anthroposphere: Predicting local runoff in a heavily modified high-alpine catchment

14:00 **Andrej Hočevar** (University of Ljubljana, Slovenia)  
Mountain watersheds: actions to cope with climate change caused disasters

14:20 **Hans Schreier** (University of British Columbia, Canada)  
Adapting to the combined effects of increased climatic variability and land use changes on water resources in mountain communities in Canada

14:40 – 15:00 *Coffee break*

15:00 – 17:00 **Environmental services and citizen science in the management of mountain watersheds**

Chair: *Elaine Springgay (FAO)*

15:00 **Martin Haigh** (Oxford Brookes University, UK)  
Environmental impacts of land reclamation after coal mining in headwaters of Wales

15:20 **Adam Kertesz** (Hungarian Academy of Science, Budapest, Hungary)  
Erosion in the forest induced by anthropogenic activities

15:40 **Eero Kubin** (University of Oulu, Finland)  
Environmental impact of forest practices in the middle-boreal zone, Finland

16:00 **Steven Loiselle** (Earthwatch Institute, Oxford, UK)  
Citizen scientists and freshwater ecosystem research

16:20 **Christin Haida** (Alps, Innsbruck, Austria)  
From Water Footprint to climate change adaptation: capacity development in mountain regions

16:40 - 17:00 Discussion

19:00 *Guided tour in historical rooms of the Charles University*

19:30 *Conference diner in the Rector's Club, Charles University*

Tuesday (September 5)

9:00 – 12:00

**Presentation of observers**

Chair: *Alison Evans (ONF RTM, Annecy, France)*

9:00 **Erika Penzesne Konya** (University of Eger, Hungary)  
Water management and environmental education: Programmes and themes in the Hungarian education

9:20 **Lorenzo Marchi** (CNR IRPI, Padova, Italy)  
GIS tools for preliminary debris-flow hazard assessment at regional scale

9:40 **Antonio Jose Teixeira Guerra** (Federal University of Rio de Janeiro, Brazil)  
Soil erosion monitoring and land degradation in mountain areas of São Paulo State Park, Brazil (to be presented by **Michael Fullen**)

10:00 **Michael Fullen** (Wolverhampton University, UK)  
Agro-environmental Sustainability of the Yuanyang Rice Terraces in Yunnan Province, China

10:20 – 10:40 *Coffee break*

Chair: *Hans Schreier (University of British Columbia, Canada)*

11:00 **Hideaki Marui** (Niigata University, Japan)  
Relationship between water quality and ground condition of earthquake-induced landslide areas in a mountain watershed

11:20 **Farda Imanov** (University of Baku, Azerbaijan)  
A method to determine ecological flows: A case study for mountainous Ganjachay River in Azerbaijan

11:40 **Antonio del Campo** (Universitat Politècnica de València, Spain)  
Integrated management of forests and water in semiarid catchments: changing to a tangible and quantifiable approach.

12:00 – 13:00 *Lunch*

13:00 – 15:00

**National reports**

Chair: *Piermaria Corona (University of Tuscia, Italy)*

15:00 -15:20 *Coffee break*

15:20 – 17:00

**Working Party mission**

Chair: *Piermaria Corona (University of Tuscia, Italy)*

15:20 **Elaine Springgay** (FAO)  
Forest and water programme of FAO

15:40 **Eero Kubin** ((University of Oulu, Finland)  
WG1 activities in 2015-2017

16:00 **Thomas Fink** (Austrian Service for Torrent and Avalanche Control)  
**Anthony Dubois** (ONF International, France)  
WG2 activities in 2015-2017

16:20 **Working Party business, discussion and conclusions**

## ANNEX B

## EFC – Working Party on the Management of Mountain Watersheds



31st session

4-6 September 2017, Prague, Czechia

## List of participants

Country	Name	Institution	Mail
Austria	Thomas Fink	Ministry of the Environment, Vienna	Thomas.Fink@bmlfuw.gv.at
	Christin Haida	alpS GmbH, Innsbruck	haida@alps-gmbh.com
	Karsten Schulz	BOKU Vienna	karsten.schulz@boku.ac.at
Azerbaijan	Farda Imanov	Baku State University	farda_imanov@mail.ru
Canada	Hans Schreier	University of British Columbia, Vancouver	star@mail.ubc.ca
Czech	Eleni Dimelisová	Charles University in Prague	EleniD@seznam.cz

Republic	Josef Křeček	Czech Technical University in Prague	Jkrecek@email.cz
	Jiří Kremsa	Authority of the Elbe River - Povodí Labe a. s.	kremsa@seznam.cz
	Petr Navrátil	Forest Management Institute	navratil.petr@uhul.cz
	Petr Punčochář	Aon Benfield Impact Forecasting	Petr.puncochar@aonbenfield.com
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	Eva Pažourková	Czech Technical University in Prague	eva.pazourkova@fsv.cvut.cz
	Jiří Vrtiška	Czech Technical University in Prague	jiri.vrtiska@fsv.cvut.cz
Finland	Eero Kubin	Oulu University	eero.kubin@gmail.com
France	Anthony Dubois	ONF	anthony.dubois@onfinternational.com
	Alison Evans	ONF RTM	alison.evans@onf.fr
	Olivier Marco	ONF RTM	olivier.marco@onf.fr
Hungary	Adam Kertesz	Hungarian Academy of Science, Budapest	kertesza@iif.hu
	Erika Péntzesné Kónya	University of Eger	konya@ektf.hu
Israel	Moshe Gophen	Migal	gophen@migal.org.il
Italy	Piermaria Corona	Council for Agricultural Research and Economics	piermaria.corona@unitus.it
	Lorenzo Marchi	CNR IRPI, Padova	lorenzo.marchi@irpi.cnr.it

Japan	Hideaki Marui	Niigata University	08marui@gmail.com
Poland	Marcin Jachym	Forest Research Institute	M.jachym@ibles.waw.pl
	Piotr Kowalczyk	Ministry of the Environment	piotr.kowalczyk@mos.gov.pl
	Edward Pierzgalski	Forest Research Institute	E.Pierzgalski@ibles.waw.pl
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Spain	Antonio del Campo	Universitat Politecnica de Valencia	ancamga@upv.es
Switzerland	Benjamin Langa	Federal Office for the Environment FOEN	benjamin.lange@bafu.admin.ch
United Kingdom	Mike Fullen	University of Wolverhampton	M.Fullen@wlv.ac.uk
	Martin Haigh	Oxford Brookes University	mhaigh@brookes.ac.uk
	Steven Loiselle	Earthwatch Institute	sloiselle@earthwatch.org.uk
United States	Steven McNulty	USDA Forest Service	Smcnulty@fs.fed.us
FAO	Peter Csoka		Peter.Csoka@fao.org
	Catrin Promper		Catrin.Promper@fao.org
	Elaine Springgay		elaine.springgay@fao.org
	Ekrem Yazici		ekrem.yazici@fao.org