Forun	n Carpati	cum 2021 Program			
Date	Time	Sessi	ons, Workshops, Presentat	ions	
Mon. June	9:00 – 10:30	S4C Steering committee Meeting			
21	11:00 – 12:30	Workshop: How can FC 2021 contribute to the updated S4C research agenda?			
	14:00 – 15:30	Meeting of S4C Steering Committee and the Scientific Network for the			
	16:00 -	Caucasus Mountain Region (SCN-mt): signing the MOU between the network defining concrete cooperation			
	17:30				
Tues.	9:00 – 10:30	Plenary 1 Opening, Information (moderated by Pavel Cudlín)			
June 22	10.50	Welcome messages:			
		-	of the Carpathian Convention		
		Ms. Bożena Haczek, Minist the Polish Presidency of th	ry of Climate and Environmen e Carpathian Convention	t of Poland, representing	
		Opening Talk: Michal V. M. The impact of global chan	arek, director of the Global Ch ge on forests	ange Institute of CAS:	
		Policy presentations:			
			s a chance to ensure cohesiont in the Carpathians (Draus E		
		Complementarity of the Carpathian Strategy with the EU Strategy for the Danube Region (Wais P.)			
	11:00 -	S1 Forest ecosystem and	S2 Recent and future	S3 Carpathian waters:	
	12:30	resource vulnerabilities	changes of agricultural ares of Carpathians (Halada	From knowledge to management 1 (Wyżga	
		to climate charge in the	L., Mederly P.)	B. et al.)	
		Carpathian Mountain	Recent changes and processes of	Twentieth-century	
		<b>Region</b> (Keeton W. et al.) Forest ecosystem and	Carpathian agricultural areas with	development of floodplain	
		resource vulnerabilities to	particular focus to Slovakia (Halada Ľ. et al.)	forests in Polish Carpathian valleys: the by-product of	
		climate charge in the Carpathian Mountain Region	Changes in Slovak rural landscape,	transformation of river channels? (Hajdukiewicz H.,	
		(Keeton W. et al.)	in the context of globalization (Izakovičová Z., Špulerová J.)	Wyżga B.)	
Tues.		Model-based potential natural vegetation projections	The mid-term sustainability	Morphological changes of the Hornád River stream and	
June		accounting for climate change	evaluation of predicted scenarios	its management-	
22		to assist decisions for forestry and grazing practices (Somodi I. et al.)	in agricultural landscape of the Poloniny NP (Bezák P., Bezáková M.)	retrospective view (Labaš P., Kidová A.)	
		Saving the timber but not the	Chestnut groves as habitats for	The downstream fining trends of two neighbouring	
		forest: Post-disturbance	threatened and rare plant species	rivers; the difference in	
		management is ineffective in preventing further Norway	<ul><li>– case study of Nagymaros (Zeller Z., Pástor M.)</li></ul>	significance of the disruption factors (Holušová	
		spruce forest decline in	Measures to support wild bees	A., Galia T.)	
		Slovakia (Potterf M. et al.)	and their pollination service	Scientific monitoring of	
		Soil biological activity changes as a result of windthrow in the	(Šlachta M., et al.)	immediate and long-term effects of river restoration	
		Javorová Valley (the High Tatra	Poster: The connection between	projects in the Polish	
		Range) (Wasak-Sęk K. et al.)	environmental predictors and regeneration capacity of sandy	Carpathians (Wyżga B. et al.)	
		Effect of management interventions after windstorm	habitats in Hungary (Csákvári E. et al)	Patterns of beaver	
		on ectomycorrhizal fungal	,	(re)colonization of the Orava- NowyTarg Basin, Polish	
		community (Veselá P. et al.)	Poster: Changes in the use of agricultural land and soil quality	Carpathians (Zawiejska J.,	
			properties in the conditions of the	Chmielowska D).	
			submountain countryside land in		

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		Postdisturbance development of vegetation in the High Tatras (Homolová Z.) Poster: Cost-benefit analysis of spruce monocultures conversion: evidence from the Ukrainian Carpathians (Pelyukh O., Zahvoyska L.)	the Slovak part of the Carpathians (Petluš P. et al.)	
Tues. June 22	14:00 - 15:30	S4 Carpathian waters: From knowledge to management 2 (Wyżga B et al.)  Managed mountain streams as boosters of downstream sediment transport (Galia T., Škarpich V., Ruman S.)  Morphological-hydraulic river response to management measures in Natura 2000 (the Belá River case study, Slovakia) (Kidová A. et al.)  Large wood and the city: the case study of the Ostravice river, Czechia (Poledniková Z., Galia T.)  Long-term monitoring of the recruitment and dynamics of large wood in Kamienica Stream, Polish Carpathians (Mikuś P., Wyżga B.)  Poster: The effects of road crossings on stream macroinvertebrate diversity (Gál B. et al.)  Poster: Stable isotope variability in precipitation and underground drip water along an orographic transect (South Carpathians, Romania) (Tîrlă L. et al.)  Poster: Water resources in small flysch catchments in the Bieszczady Mountains (Mostowik K.)  Poster: Water Reservoirs in the Paríž Stream catchment (Borovská J. et al.)	S5 Perspectives through paleoscience for a sustainable future of the Carpathian environments (Florescu G.)  Natural archives from the Eastern Carpathians: paleoclimatic insights for climate future projections (Bădăluță C. et al.)  Climate change and human impact on the vegetation of the Carpathian foreland (Ukraine) over the last 5,000 years based on pollen studies at archaeological sites (Gerasimenko N. et al.)  Equilibrium line altitude (ELA) in the highest mountain massifs of the Eastern Carpathians (Romania, Ukraine) as a proxy for the Last Glacial Maximum palaeoclimate (Kłapyta P. et al.)  Signs of glacial activity in the midheight mountains of Ukrainian Carpathians (Ridush B. et al.)	Workshop 1: Forest ecosystem and resource vulnerabilities to climate charge in the Carpathian Mountain Region (Keeton W. et al.)
	16:00 – 17:30	S6 Scientists and humanists working together to propose new (and old) approaches to ecology in the Carpathians (Cooley T.J. et al.)	S7 The power of social innovation in mountain areas to steer a sustainable governance of nature (Nijnik M. et al.) How to turn stakeholder evaluation of multi-functional	Workshop 2: Biodiversity and connectivity of rural- urban forests: planning and sustainable land

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		Using traditional ecological knowledge, science, and music to imagine new relationships with mountain ecosystems (Cooley T.)	forestry into innovative forest governance practices to enhance sustainability transformation in the Carpathian Mountains? (Nijnik M. et al.)	management at the peripheral edges (Diaz- Maroto I.J.)
		Unfolding the Potential of Cultural Heritage: a Case Study from Val Venosta (South Tyrol, Italy) (Schmidt R., Agosti E.) In the woods – In the wild. An artistic research project of speculative ecology in Transcarpathia (Alam B. et al.)	Citizen Science in the Carpathians – adopting Living Lab approach (Adam M. et al.) Impacts of social innovation on spatiality in mountain–lowland relationships: Trajectories of two Swiss regional initiatives in the context of new policy regimes (Perlik M. et al.)	
		Between space and view: Inhabiting a landscape in the Bieszczady Mountains (Trzeszczyńska P.)	Can social innovation offer transformative opportunities to forestry in Ukraine? (Nijnik M. et al.)	
		"Is it sill our land?" Between traditional and modern ways of using the land. Example of the Tatra mountain region called Podhale (Trebunia-Staszel S.)	The power of social innovations to tackle challenges in forestry: Switzerland and Ukraine in the focus (Melnykovych M. et al.) Poster: Social innovation and Biodiversity Conservation through Participatory Management of protected areas in Eastern Slovakia: Reconciling nature conservation with local development (Meessen H. et al.)	
			Poster: Green for Care - Stakeholder Analysis (Florea S. et al.)	
Wed. June 23	9:00 – 10:30	Keynote 1, Katter-Wettstä	nara Mitrofanenko, Joanna Zawiejs dt L.: ESD and regional develo of S4C - inputs & recommendation	pment

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	11:00 – 12:30	S8 Carpathian waters: From knowledge to management 3 (Wyżga B. et al.)  Endosymbionts of threatened thick shelled river mussel Unio crassus Philipsson, 1788 in Carpathians (Zając K., Zajac T.)	S9: Education for Sustainable Development - best practices of education for sustainable development in the Carpathians and other mountainous regions (Mitrofanenko T. et al.)	Workshop 3: Becoming better science writers and science communicators for the Carpathians (Munteanu C.)
		Role of vegetation cover in water and soil retention modeling in the Dřevnice River basin, Czech Republic (Jakubínský J. et al.)	Recommendations for Stronger Integration of Education for Sustainable Development into the Carpathian Convention: results of a participatory process (Mitrofanenko T. et al.)	
		come from? A study of natural and anthropogenic processes, connectivity and flood efficiency in a southwestern Carpathian basin (Moroşanu G.A et al.)	Bringing primary school pupils closer to environmental education. Proposal for a field itinerary in Romanian Carpathian Mountains (Drăgan T., Moroșanu G.A.)	
		Exploring and quantifying the impact of climate change on Carpathian rivers (Kędra M.)	BioLearn – project about how to use biomimicry in education for sustainability (Neumayer É. et al.)	
Wed. June 23		Climate data over the Carpathian Region - challenges for environmental applications (Micu D.M. et al.)	Respect Nature in the Carpathians (Shchoka I. et al.)	
	14:00 – 15:30	S10 Cross sectoral issues- the Carpathians valued as a living place (Hoffmann C.)	S11 Applications of historical data in geography, land use, ecology and conservation (Kaim D, et al.)	S12 Tree and forest growth across Carpathians – from past to future (Pokorný R.)
		Conservation and valorisation of the Carpathians landscape from the environment legislation point of view. Case study (Verga M.)	Stone mounds and walls as a current manifestation of past human-environmental interactions in vine regions of Little Carpathian	What is possible future of the European beech in the Carpathians? (Pokorný R.)
		Integration and reconciliation of biodiversity protection with local socio-economic development in Carpathian	Mountains (case study of Modrá, Slovakia) (Hanušin J. et al.) High resolution 19th century buildings, railway and road	Response of beech and fir along the Carpathian gradient (Čater M.)  Patterns and drivers of tree
		protected areas (Bisconti S. et al.) Enhancement of green	network database for the Galicia and Austrian Silesia, Habsburg Empire (Kaim D. et al.)	longevity across primary mountain forests of Europe (Pavlin J.)
		infrastructure in Polish Carpathians for ecological benefits and sustainable local development (Mikołajczyk P.) Sustainability measured by annual statistical reports –	A century of population dynamics in the Romanian Carpathians (1910–2020). Factors, spatial patterns and regional disparities (Muntele I. et al.)	Transition from even aged spruce to uneven-aged close-to-nature mixed forest stands - a challenge for economical optimisation and
		Derdap National Park (Serbia) (Pantić M., Milijić S.) Gifts of the forest - contemporary use of wild mushrooms: Cases from the Carpathians in Romania and Ukraine (Stryamets N. et al.)	Changes in selected land cover forms in Galicia in the 20th century and the diversification of socio-economic development in Poland and Ukraine. The study based on cartographic and statistical materials - preliminary results. (Quirini-Popławski Ł. et al.)	planning (Roessiger J. et al.)  European beech as a main edificator of the vegetation tiers in the Carpathians Mts.  — in what time horizon will the changes be noticeable? (Holuša O., Holušová K.)

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		Poster: Green infrastructure as an active tool of support to spatial stability and biodiversity of landscape (Moyzeová M. et al.)  Poster: Online environment as tool to push forward the recherche: an example for landscape disservices (Stupariu I. et al.)  Poster: Negative effects of road traffic on vertebrate species — A literature review from Hungary (Borza S. et al.)	Historical remote sensing for ecology and conservation in the Carpathians Ecoregion (Nita M.D. et al.)  Poster: The great landed property in Galicia in the middle of 19th century: its legacy and influence on contemporary forest areas (Miklar A. et al.)  Poster: Countertrending local knowledge erosion: persistence of traditional cattle healing practices in the Bukovinian Carpathians (Mattalia G. et al.)  Poster: Long-Term Development Trend of the Historical Cultural landscape of the UNESCO Monument: VIkolínec (Slovakia) (Boltižiar M. et al.)	Poster: Factors of Norway spruce ( <i>Picea abies</i> ) survival during severe bark beetle ( <i>Ips typographus</i> ) outbreak in Central Europe: Non-linear tree resistance responses (Korolyova N. et al.)
Wed. June 23	16:00 - 17:30	S13 Study of the temporal and spatial variability primary production and carbon allocation in Carpathian forests (Nezval O.)  A new approach of phenological observations: using digital repeat photography to estimation of phenophases of European beech forest in the White Carpathian (Nezval O.)  Carbon modelling of primary forests: an example from the Carpathians (Keith H. et al.)  Primary forest biomass dynamics across scales driven by natural disturbances (Ralhan D. et al.)  BEECH POWER: World Heritage BEECH Forests: emPOWERing and catalyzing an ecosystembased Sustainable Development (Waldherr M., Öllös H.)  Natural dynamics of temperate mountain beech-dominated primary forests in the Western Carpathians (Frankovič M. et al.)	S14 Global changes and local responses: Resilience, adaptations, innovations for the sustainable development of Carpathians tourist destinations (Matei E., Mika M.) Tourism, ecology, and the roles of musicking in the Polish Tatras Mountains (Cooley T.) Exploring tourism in Tatra National Park and Low Tatras National Park by using social big data (Rusňák T. et al.) Skiing area development and sustainability issues in Romanian Carpathians (Mihai B.A. et al.) Exploring visitors' spatial behaviour as a basis for protected areas management — a case study from the Tatra Mountains (Hibner J., Taczanowska K.) Cooperation for the digital promotion of destinations in the Polish Carpathians: DMOs' perspective on the use of ICT (Pawłowska-Legwand A.) Poster: Lessons learned for resilience of tourism industry in the Romanian Carpathians during Sars-Cov-2 Pandemic (Matei E.) Poster: Sentiment analysis as feedback for improving sustainable management in Northern Subcarpathians of Oltenia Destination (Trutescu M.N.)	Workshop 4: Inter- and transdisciplinary mountain data in the Carpathians: Identifying user requirements and access preferences (Adler C. et al.)

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Date	Time	Sessions, Workshops, Presentations		
Thur. June 24	8:45 - 10:30 10:30 - 11:00	Plenary 3 (moderated by Joanna Zawiejska) Keynote 2, Miko L.: Green Deal and EU Recovery plan - opportunity or challeng for environment in Carpathians? Keynote 3, Bussetini M.: Linking science to policy for an aware system management. Lessons learned and perspectives  Official Signing of the Memorandum of Understanding between the Science of the Carpathians Network (S4C) and the Scientific Network for the Caucasus Mountain Region (SNC-mt)  Welcome words: Carolina Adler (MRI), representatives of S4C and SNC-mt		between the Science of rk for the Caucasus
Thur. June 24	11:00 - 12:30	S15 Large carnivores in the Carpathians: Challenges for effective conservation and managemet (Kutal M., Dula M.) Large carnivores in the Carpathians: Challenges for effective conservation and management (Kutal M., Dula M.) Brown bear predation on sheep and cows in the Carpathian landscapes (Pop I.M. et al.) The project LIFEstockProtect. Livestock protection from farmers for farmers (Stauder J., Favilli F.) Attitudes toward large carnivores in Serbia (Lavadinović V. et al.)	S16 Advances in earth observations for sustainable development in mountainous regions (Ostapowitcz K.) Remote sensing for monitoring the fulfilment of vegetation functions (Vyvlečka P., Pechanec V.) Land use intensity trajectories on forest-rural-urban areas obtained from dense Landsat time series (Ostapowicz K., Butsic V.) Forest aboveground biomass mapping from satellite optical and radar data (Navratilová B. et al.) LiDAR as a tool for detection of historical anthropogenic landforms: examples from Slovakia (Lieskovský J. et al.)	S17 Getting it done right: Mediation for sustainable use and reuse of the Carpathians resources (Kubal Czerwinska M., Krzesiwo K.)  How does Forest Stewardship Certification address the legality issues in the context of European national frameworks? (Buliga B., Nichiforel L.)  Use of renewable energy resources and management of waste recycling projects in the Romanian plain. Case study: Giurgiu county, Romania (Ducman A. et al.)  Policies for integration of ecosystem services into local bioenergy strategies: challenges and opportunities for the Ukrainian Carpathians (Soloviy I. et al.)  The route of riverine macroplastic: a transdisciplinary perspective (Liro M. et al.)
	14:00 – 15:30	S18 Social economic, and environmental impacts of illegal legging in the forests of the Carpahtian Ecological region (Bihun Y. et.al.)  WorldForestID: Addressing the need for standardized wood reference collections to support authentication analysis technologies; a way forward for checking the origin and identity of traded timber (Gasson P. et al.)  NGO capacity building in Ukraine to fight illegal timber	S19 Modelling of the biodiversity and ecosystem functions/services for nature protection and sustainable use of natural resources in the Carpathians (Pechanec V., Cudlín P.) Risk assessment of biodiversity loss in the Beskydy Protected Landscape Area (Pechanec V. et al.) Scaling effect on the aboveground carbon stock assessment (Purkyt J. et al.)	Workshop 5: Towards the Carpathian ESD Expert Network: Integrating Education for Sustainable Development into the activities of the Carpathian Convention (Mitrofanenko T., et. al.)

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		harvesting (Karabchuk D., Bihun Y.)  Near real-time monitoring of forest stands to combat illegal timber harvesting in Ukrainian Carpathians (Chaskovskyy O., Karabchuk D.)  Tools for risk mitigation in sustainable forest management of Ukraine (Kravets P. et al.)  Wildlife crime in Eastern Europe – case study of Serbia (Lavadinović V., Islas C.)	Estimated impacts of climate change to selected ecosystem services of forests under different management – a case study from the West Carpathians (Murgaš V. et al.)  Climate regulating ecosystem services of old-growth forests: case study from Ukrainian Carpathians (Smaliychuk A. et al.)  Poster: Mapping and assessment of recreation as a cultural ecosystem service (Csákvári E. et al.)  Poster: Ecosystem services provided by wild plants as a basis for sustainable livelihood (Nowak-Olejnik A.)  Poster: Modeling present and prospective distribution of Phyteuma genus in Carpathian region with machine learning techniques using open climatic and soil data (Mkrtchian A.)
	16:00 - 17:30 17:00- 17:30	Informal discussion (with a differ Carpathian scientists  Virtual Tour (30 min)	rink): What can S4C do for us - enhancing impact s
Fri. June 25	9:00 – 10:30	<ul> <li>Workshop on FC 2021 Res</li> <li>formulating the m</li> <li>inputs into the S40</li> </ul>	essage to the Carpathian Convention Secretariat
11:00 - Final Plenary - Closing of the Conference Follow-up meeting of the S4C Steering Committee			