

FULLY FUNDED PROJECT
PROJECT WITH BUDGET CUTS
UNFUNDED PROJECT
CONTINUED PROJECT FROM 2023

ID	Department	Name of PI	Project title	BUDGET 2024
2024B0016	KVHEM	Vishal Thakur	Influence of Potential Evapotranspiration Methods on Hydrological Cycle Components for Climate Change Studies: A Case Study Over Europe	196 900 Kč
2024B0018	KVHEM	Akbar Rahmati Ziveh	evapoRe: An R-based application for exploratory data analysis of evapotranspiration	181 500 Kč
2024B0023	KEKO	Zuqi Mai	Opportunity or Obstacle? Navigating the Opportunities and Challenges in the Evolutionary History of Two Different Beetle Lineages within the Himalaya-Tibetan-Hengduan System	399 340 Kč
2024B0028	KGEV	Anna Karlova	Sustainable use of composted sewage sludge for application on degraded soils	463 500 Kč
2024B0022	KEKO	Ing. Annemarie Josková	Effect of the long-term deprivation on the immunity and fitness of Odonata	306 000 Kč
2024B0015	KVHEM	Ekaterina Borisova	Role of Acute Respiratory Infections (ARIs) in Temperature-Mortality Relationships	215 870 Kč
2024B0010	KGEV	Šárka Lewandowská	Fe based particles and stable Mn oxide-biochar composites for soil and groundwater remediation in smelter affected locality	463 000 Kč
2024B0025	KVHEM	Falak Naz	Understanding the regional differences in the Impact of Heatwaves on Mortality in the Czech Republic	149 743 Kč

2024B0024	KVHEM	Devvrat Yadav	Understanding the flash droughts, their projected changes, associated drivers and hydrological impacts	207 968 Kč
2024B0026	KVHEM	Václav Steinbach	Mathematical modeling of water flow in soils under phase changes due evaporation and freezing	148 690 Kč
2024B0034	KVHEM	Ing. Lucie Chlapcová	Links between heat load and health risks based on data on ambulance calls in Prague	135 200 Kč
2024B0007	KAE	Jakub Mlejnek	Inclusion of road ecology criteria in the individual planning processes and its Strategic Environmental Assessment	109 000 Kč
2024B0003	KVHEM	Hossein Abbasizadah	Exploring the Effect of Catchment and Climate Attributes on Runoff Generation Processes Using Causal Discovery Methods	155 000 Kč
2024B0027	KVHEM	Mariana Hájková	Integrating Weather Forecast into a Physics-Based Model for Short-Term Soil Moisture and Temperature Prediction	201 000 Kč
2024B0037	KVHEM	Kuželková Marta	The early-stage effect of the silvoarable alley cropping system on the soil moisture and temperature regime of the Amálie farm	116 555 Kč
2024B0036	KPKS	Ing. Věra Ürge	The role of soil moisture in soil ecosystemservices	140 000 Kč
2024B0009	KPV	Friederike Johanna Rosa Wölke	Towards predicting temporal biodiversity changes from static patterns	126 631 Kč
2024B0006	KPKS	Saghi Movahhed Moghaddam	Vulnerability of peri-urban farmers to agricultural land conversion for urban development in the Czech Republic	120 000 Kč

2024B0021	KEKO	Přemysl Král	Belowground facilitation mechanisms in wetland plant communities and interactions patterns on microtopographical heterogeneity scale	156 628 Kč
2024B0013	KPV	Jiří Rous	Definition of calibration key of in situ and UAV measurements for estimation of hydrological parameters in Amalie Smart Landscape	205 503 Kč
2024B0020	KAE	Ing. Maria-Magdalini Mertzimeki, MSc	Application of priority-setting schemes for risk assessment of invasive plant species in protected areas: a case study between Czech Republic and Spain	80 776 Kč
2024B0035	KPV	Richard Bittman	Spectral niche concept	125 500 Kč
2024B0008	KPKS	Narges Siamian	Traditional Land Management to Mitigate Climate Change	129 353 Kč
2024B0017	KAE	Shah Zaib Hasan	The on-site treatment of greywater using floating islands and sunlight-driven photocatalysis of organic compounds	154 132 Kč
2024B0031	KPV	Petra Pracná	Impact of open cast mining on Earth's surface physiographic characteristics	566 500 Kč
2024B0002	KPKS	Masoud Barikani	Implementing green-blue corridors in leftover spaces to enhance connectivity	110 000 Kč
2024B0012	KEKO	Leandro Ariel Bernardo Eusebio	Use of functional traits to predict range limitations of prominent temperate tree species	57 625 Kč
2024B0033	KEKO	Tereza Pušová	Diversity of lichen family Acarosporaceae in Central Europe	200 000 Kč

2024B0004	KAE	Yingrun Chen	Transformation and degradation of s-metolachlor and its metabolites in vertical flow constructed wetlands with the colonization of arbuscular mycorrhizal fungi.	172 612 Kč
2024B0032	KAE	Abdullah Khan	Application of construction wastes as a filtration material in vertical flow constructed wetland for greywater treatment	139 445 Kč
2024B0011	KPKS	Ing. Jiří Černý	Study of the applicability of adaptation procedures for agricultural drainage within the framework of the land consolidation and quantification of the effects of the proposed measures on the water regime of the subject area in the hydrological units of the selected cadastral areas	140 000 Kč
2024B0005	KAE	Feilong Shen	Assessment on the changes of aquatic ecosystems in South Bohemia, Czech Republic	78 020 Kč
2024B0029	KEKO	Dorota Gajdošová	Exploring genetic diversity and kin structure of Common Pochard (<i>Aythya ferina</i>) and Tufted Duck (<i>Aythya fuligula</i>) breeding in Nadějská pond system: Implications for conservation management	242 000 Kč
2024B0014	KPKS	Muhammad Merei	Evaluating the effectiveness of Sustainable Drainage Systems (SuDS) in reducing flood risks and improving water management with a focus on rural areas	0 Kč
2024B0001	KAE	Jakub Kadlec	Spatio-temporal changes of water features at landscape level	0 Kč
2024B0019	KPV	Jan Procházka	Land Surface Phenology Changes in Czechia: Using Cloud Computing and Medium-resolution Satellite Data to Assess the Climate Change Impacts on Natural Habitats	0 Kč
2024B0030	KEKO	Ing. Ivo Kadlec	Spatial patterns of recolonising wolf population in human-dominated landscapes of Central Europe	0 Kč
CONTINUED PROJECTS FROM 2023				
2023B0014	KAE	Eliška Dvořáková	Vodní hospodářství ozeleněných budov - studie na nové budově MCEV III v areálu České zemědělské univerzity v Praze	95 000 Kč

2023B0019	KAE	Kristina Kralj	Influence of microplastic load and type on the performance of constructed wetlands inoculated with arbuscular mycorrhizal fungi: A microcosm study	151 872 Kč
2023B0020	KAE	Martin Kadeřábek	Vliv solárního potenciálu v dopravním sektoru: datové výpočty pro tvorbu metodik a rámců energetického sektoru v dopravě;Ing. Martin Kadeřábek	53 000 Kč
2023B0029	KAE	Jifeng Li	Effect of Pyrite addition and Arbuscular mycorrhizal fungi inoculation in Constructed Wetland-Microbial Fuel Cell on the removal efficiency of effluents with different phosphorus concentrations.	189 538 Kč
2023B0041	KAE	Mayang Christy Perdana	The interplay of reactive materials plant exudates and microorganisms in constructed wetlands: implications for the removal of organic micropollutants	138 500 Kč
2023B0010	KEKO	Jan Häusler	The role of leaf litter in plant interactions of open oak woodland communities	489 000 Kč
2023B0024	KEKO	Barbora Žabová	Sex differences in adult longevity in insects: filling knowledge gaps by combining experimental and meta-analytic approaches	192 000 Kč
2023B0036	KEKO	Liliana Patricia Sandoval Salinas	Phylogeographic and phylogenetic analyses of selected necrophagous species (Coleoptera: Staphylinoidea: Leiodidae and Silphinae): Insights into the evolutionary history and biogeography of key invertebrate decomposers	99 600 Kč
2023B0038	KEKO	Kateřina Trejbalová	Patterns of the internal egg temperature during incubation in a hot desert climate breeding shorebird – filling keystone knowledge gaps in our understanding of bird incubation	345 000 Kč
2023B0044	KEKO	Lucie Pešková	Patterns of egg turning in ground-nesting biparental shorebirds	103 000 Kč
2023B0033	KEKO	Alfredo Ventura	Effects of wildflower strips on ground-dwelling arthropods across seasons	325 000 Kč

2023B0003	KPKS	Kamila Hüttnerová	Využití substrátu s biouhlem ve specifickém prostředí hnědouhelné výsypky	137 000 Kč
2023B0012	KPKS	Ali Danesh	Producing geographic information on public attitudes and visual preferences regarding wind energy development by the use of big-data analysis and machine learning	288 000 Kč
2023B0016	KPKS	Jan Mañas	ANALÝZA OKRAJŮ SÍDEL SE ZAMĚŘENÍM NA JEJICH VYUŽITÍ A PROPOJENÍ S VOLNOU KRAJINOU	115 000 Kč
2023B0039	KPV	Markéta Swiacká	Ethnozoology of pangolins (Pholidota) in the Republic of the Congo	105 000 Kč
2023B0046	KPV	Eliška Šárovcová	Modelování výšky lesa v ČR z družicových dat GEDI	175 000 Kč
2023B0042	KVHEM	Michael Hofbauer	Evaluation of selected cropping systems with respect to the retention of plant available soil water during hydrologically extreme periods	203 000 Kč