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Results of a long-term national screening of polar organic pollutants in Czech rivers

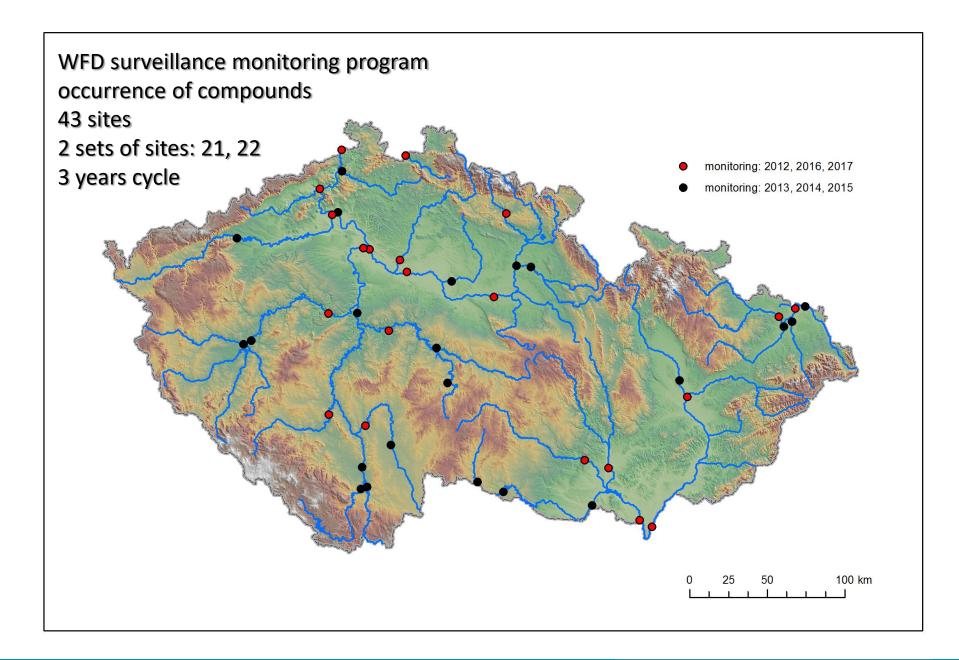
Vít Kodeš¹, Roman Grabic²

¹ Czech Hydrometeorological Institute

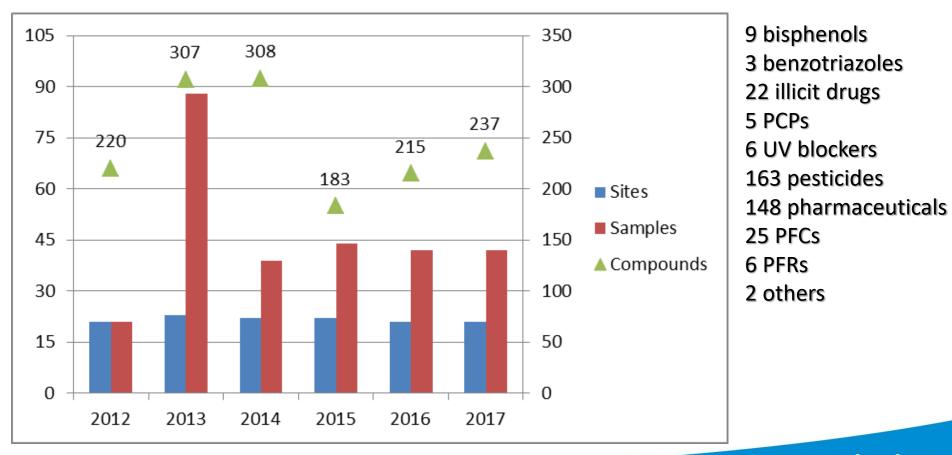
² Faculty of Fisheries and Protection of Waters, University of South Bohemia in České Budějovice

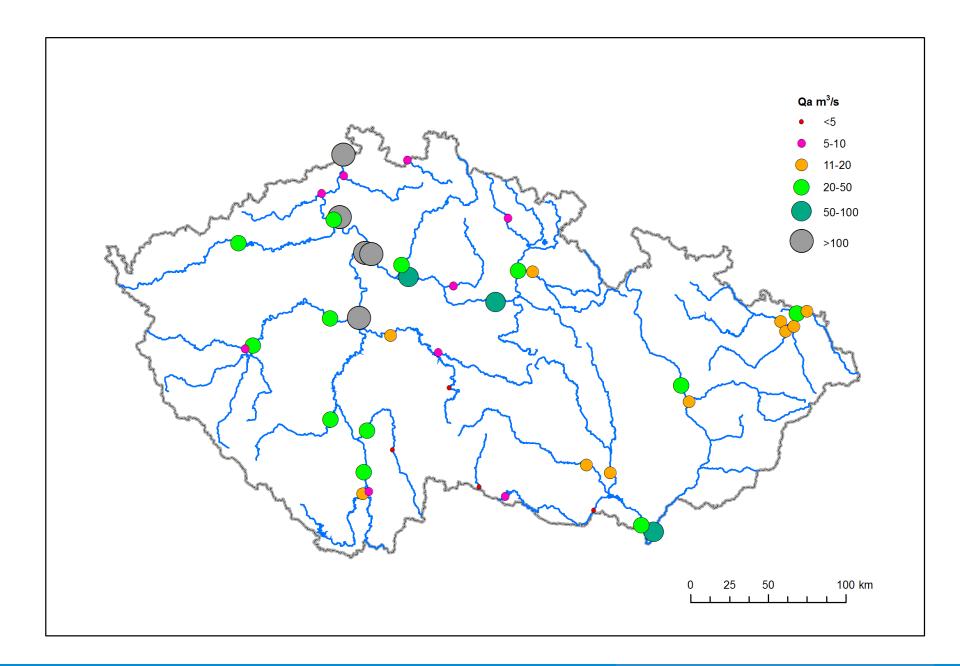


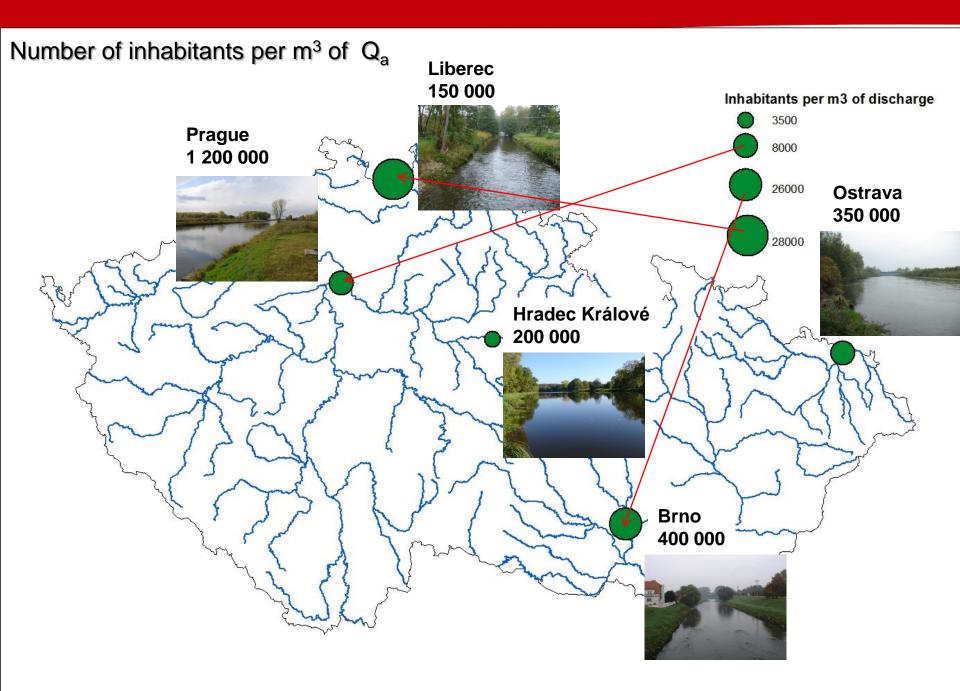
IPSW 2018, Dublin, 10.5. - 11.5.2018



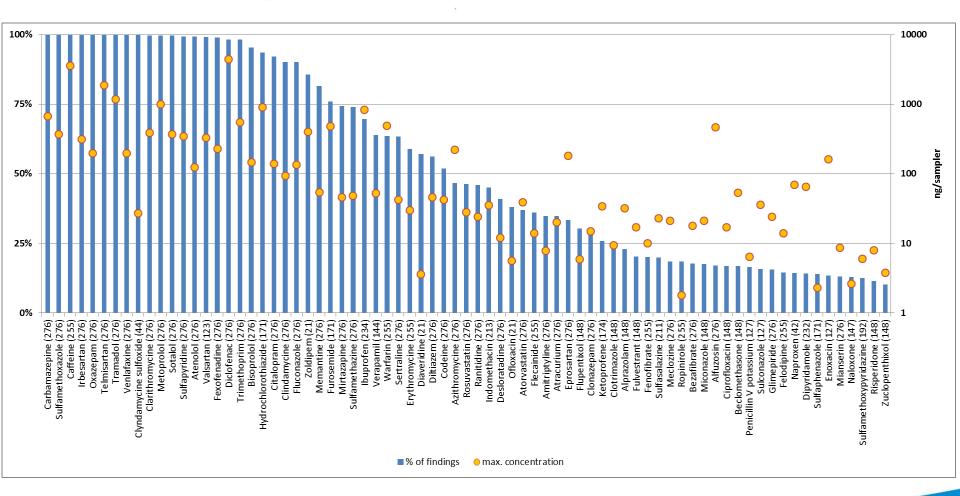
POCIS pest + pharm Deployement up to 21 days Total number of samples: 276 Monitored compounds: 389



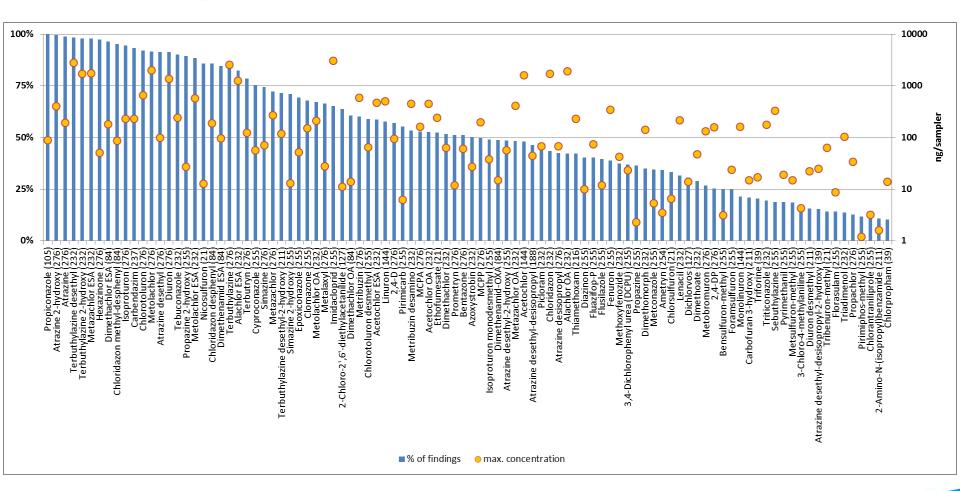




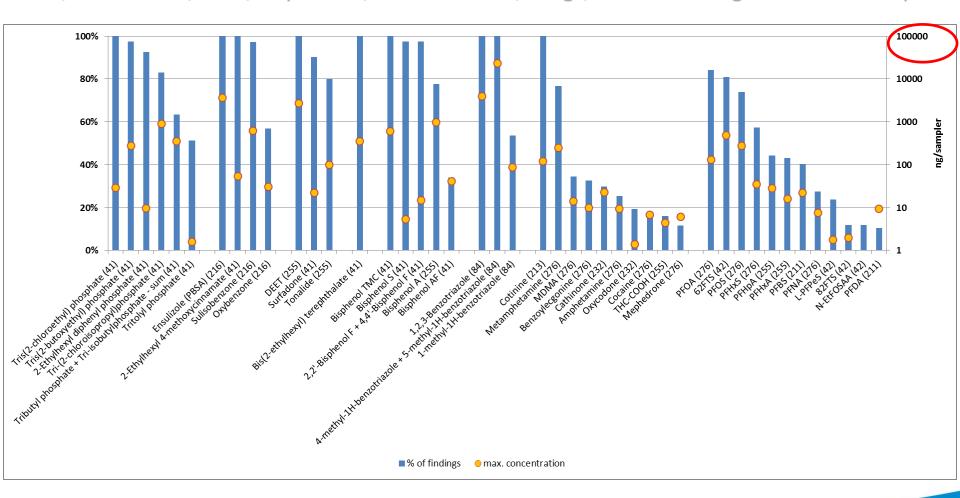
Pharmaceuticals occurring in > 10% of samples

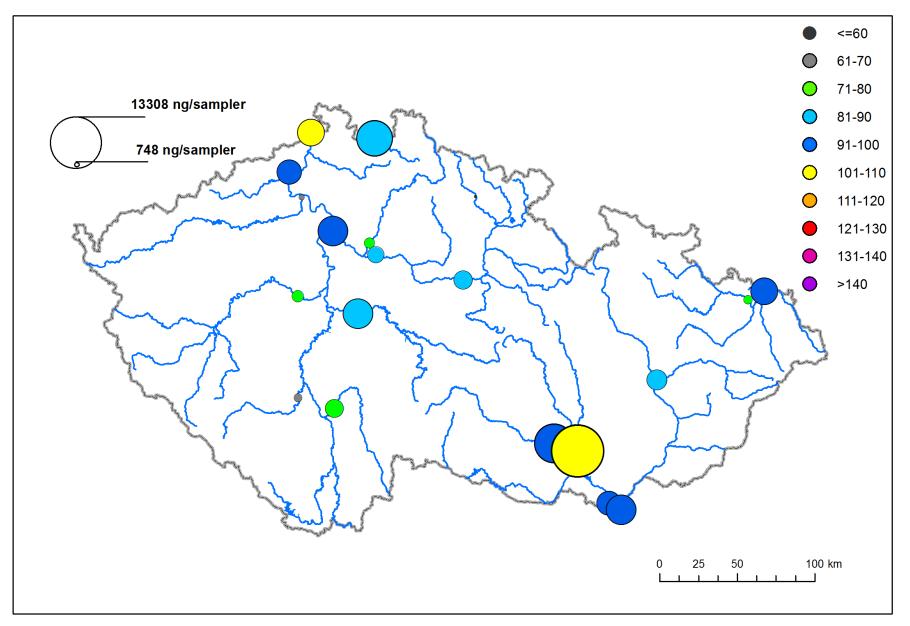


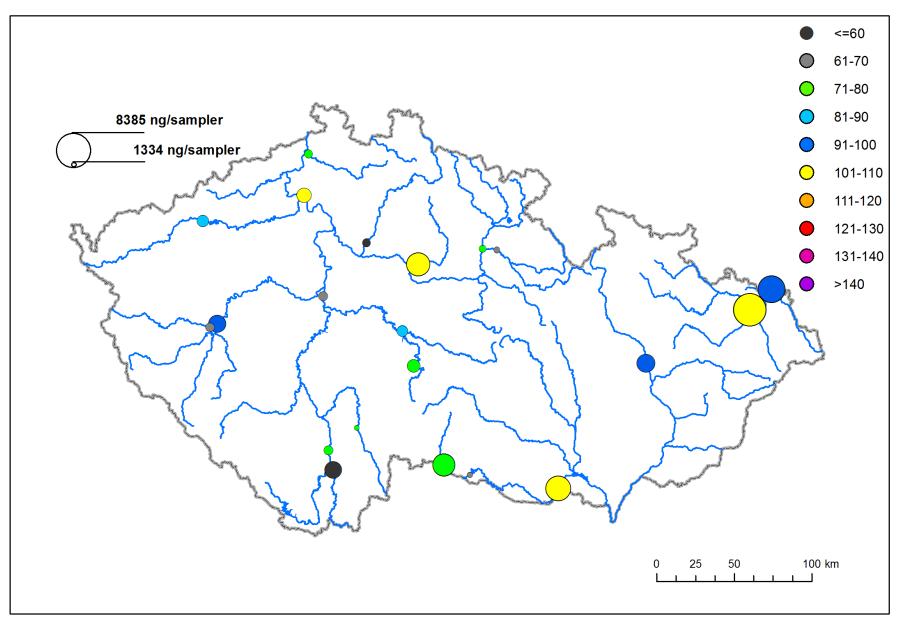
Pesticides occurring in > 10% of samples

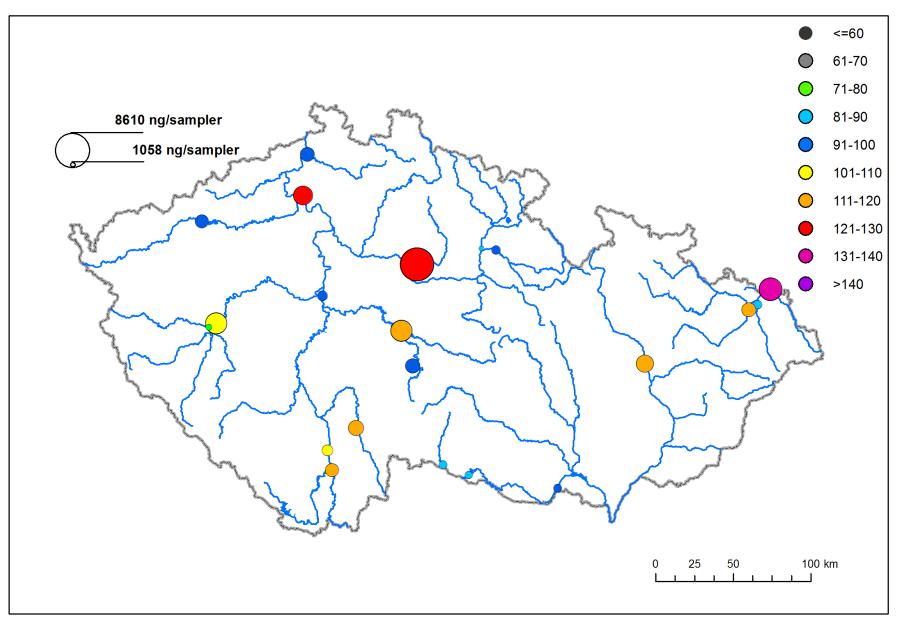


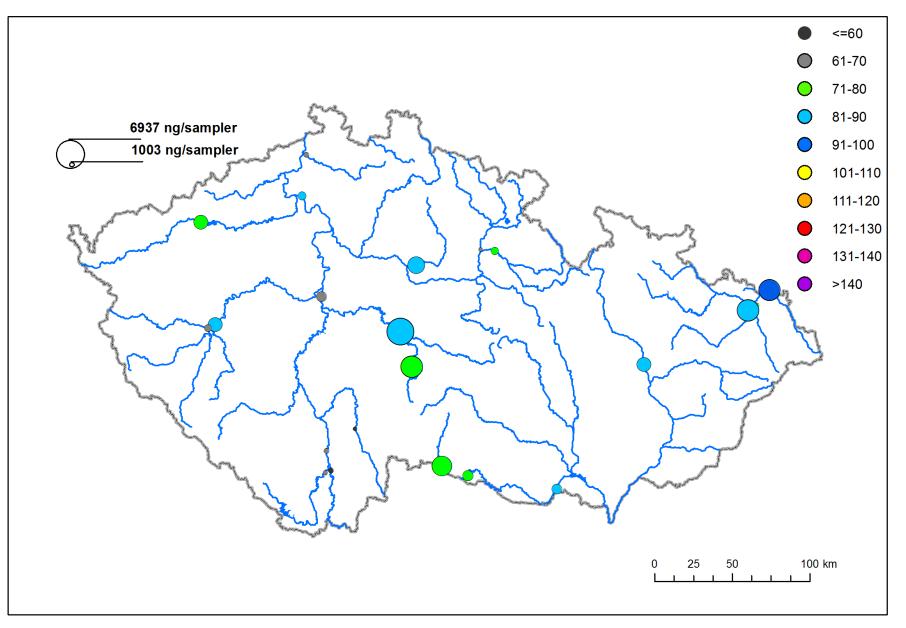
PFRs, UV blockers, PCPs, Bisphenols, Benzotriazoles, Drugs, PFCs occurring in > 10% of samples

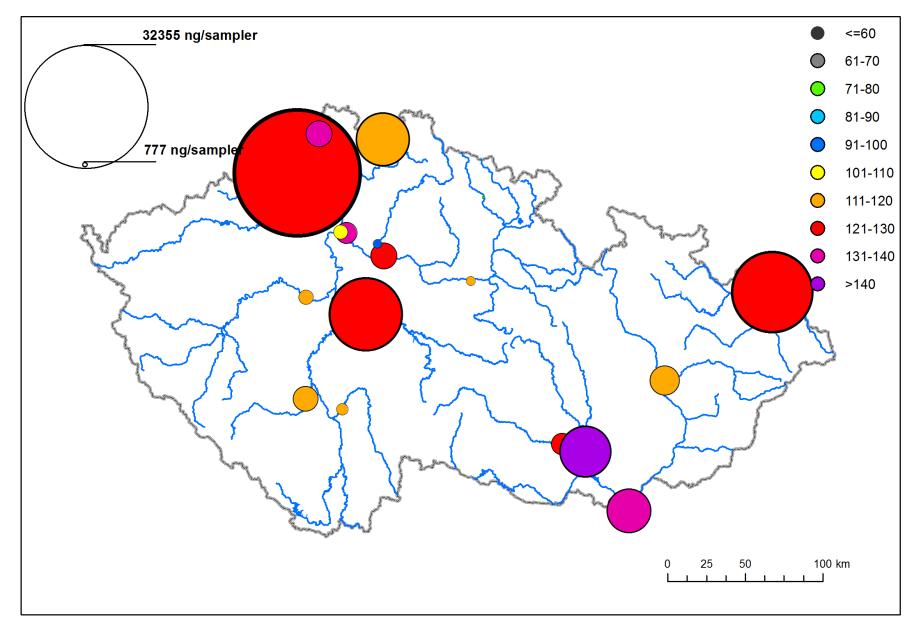


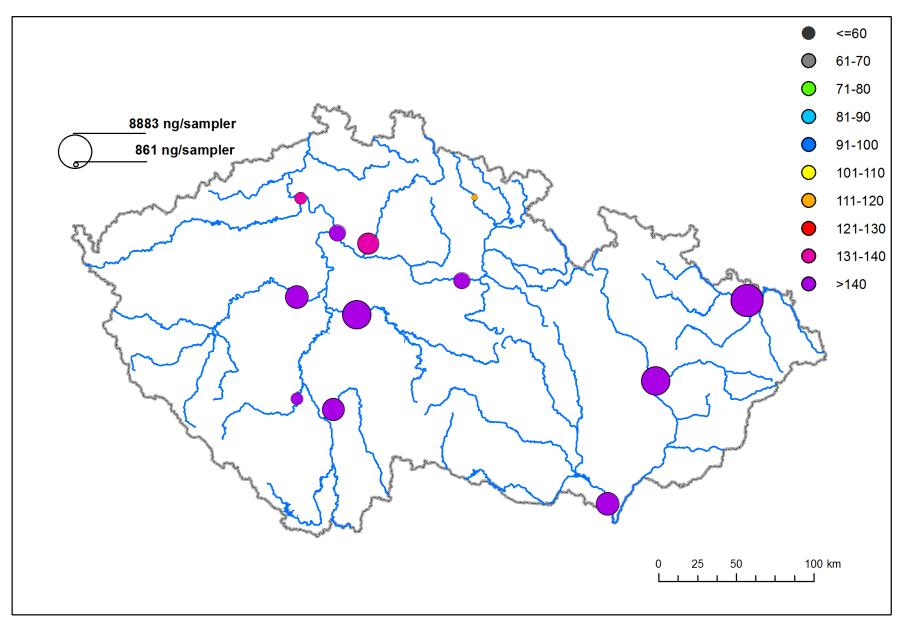


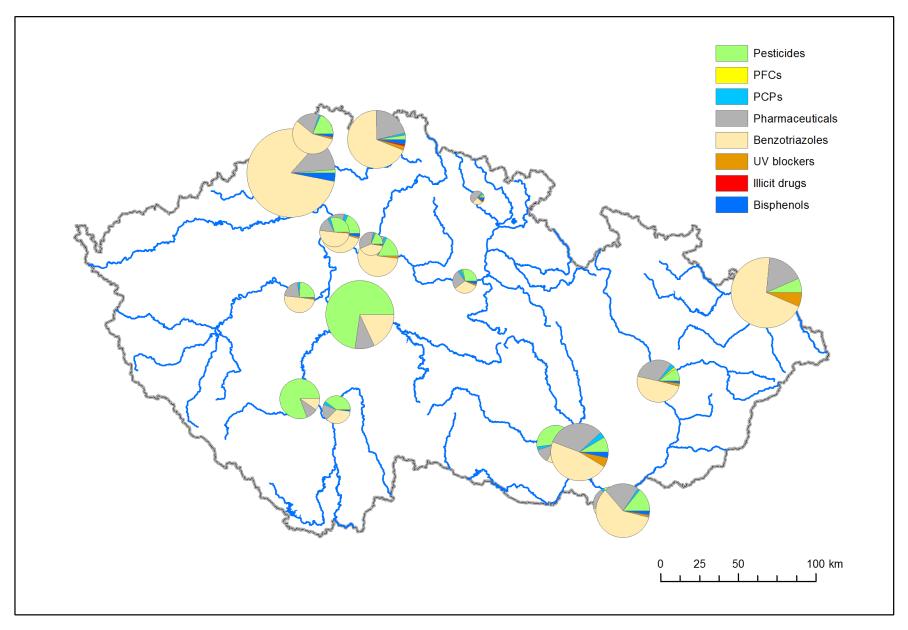




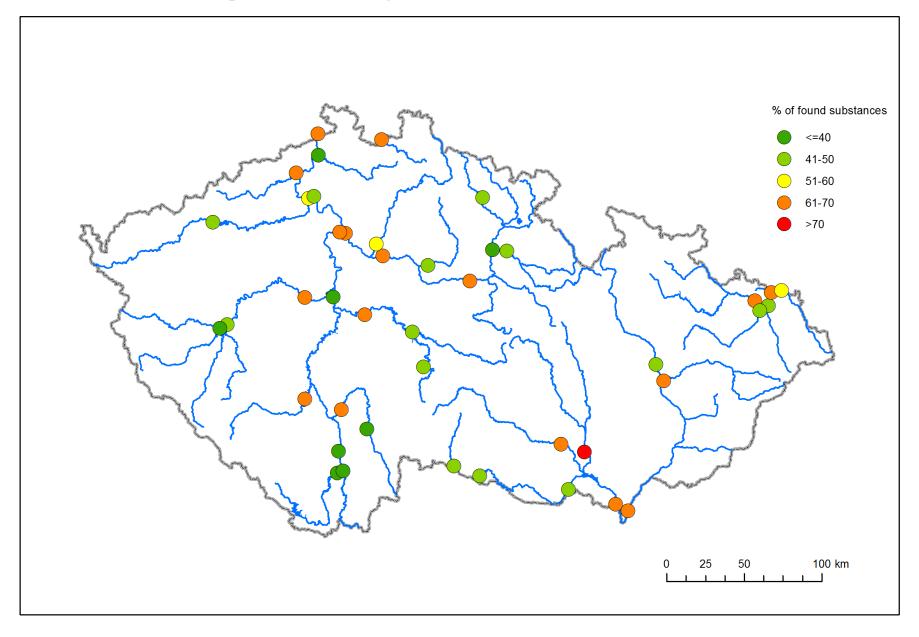




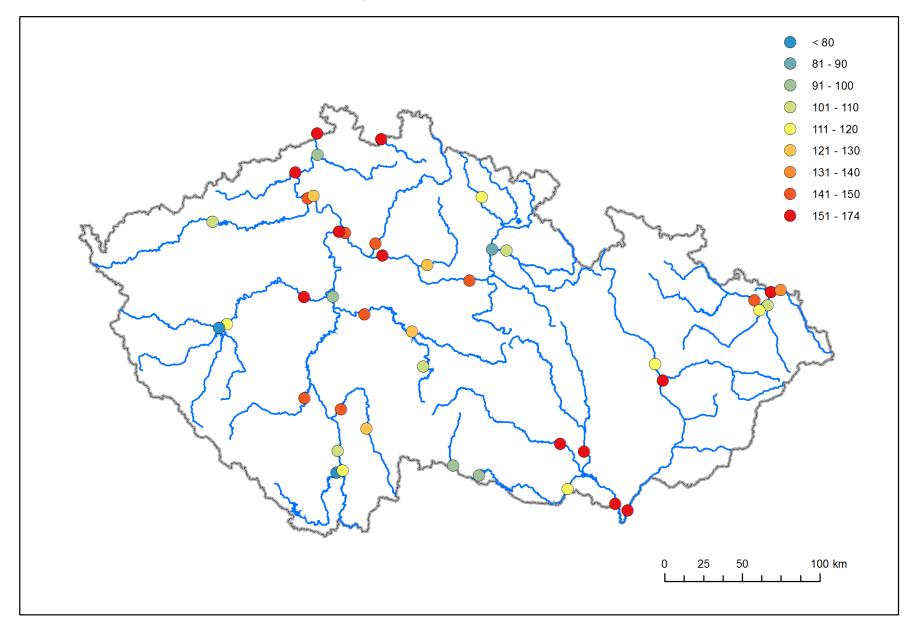




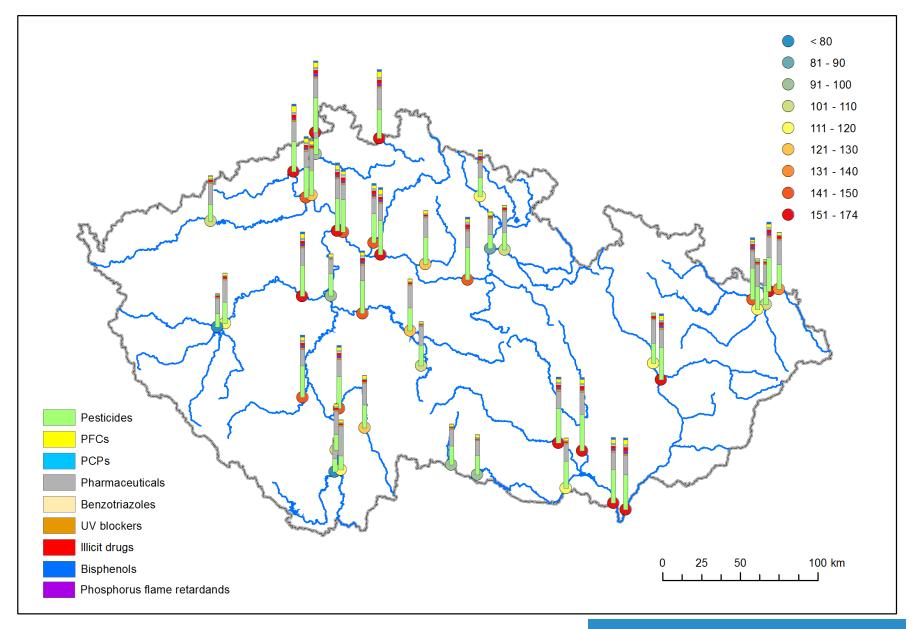
2012-2017: Percentage of found compounds



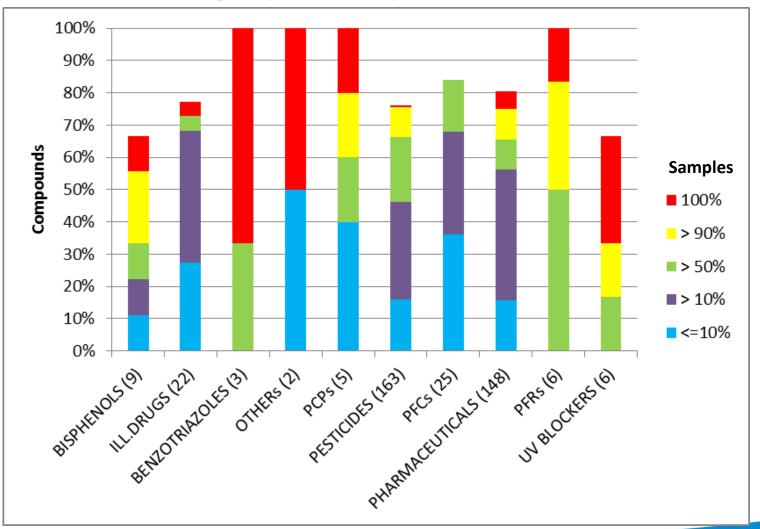
2012-2017: Number of found compounds



2012-2017 Number of found compounds



2012-2017 Percentage of positive samples



79-174 compounds found at individual sites

307 (79%) of 389 monitored compound found

217 (56%) of 389 monitored compounds found > 10% of samples

54 (14%) of 389 monitored compounds found > 90% of samples

83 (21%) compounds not found at all

8 pharmaceuticals , 2 benzotriazoles. DEET, cotinine, caffeine found in 100% of samples

14 pharmaceuticals, 16 pesticides, 3 bisphenols, 3 PFRs, 3 UV blockers found in > 90% of samples

Max. conc.: 23 000 ng/sampler (4-methyl-1H-benzotriazole + 5-methyl-1H-benzotriazole)



Thank you for your attention





Manual State