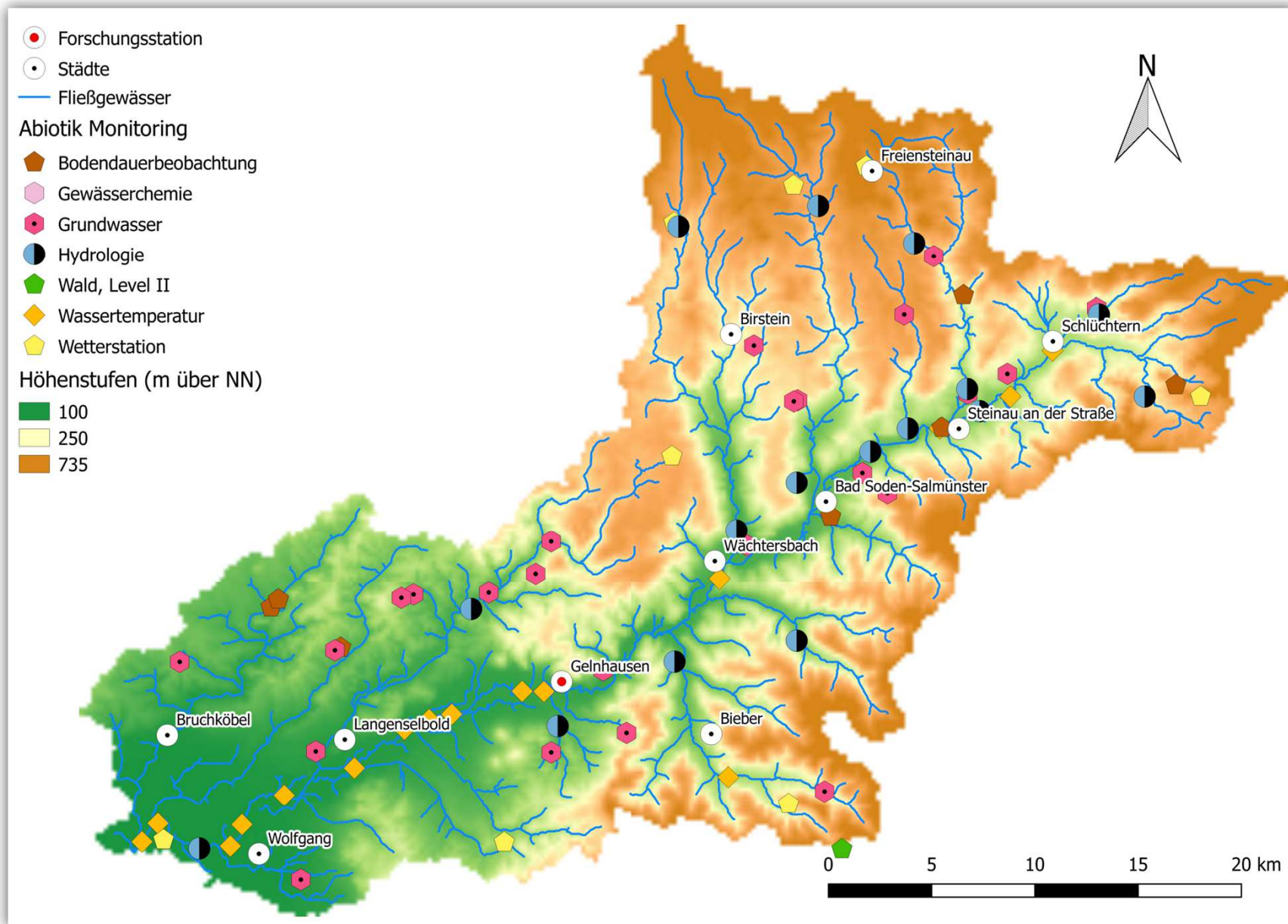


Im Rhein-Main-Observatorium erhobene Daten und Lage der Messungen

A-/Biotic	Aquatic/Terrestrial	Monitoring locations	Variable	No. of sites	Sampling frequency	Time period	Source
Biotic	Aquatic	Biological sampling	Benthic invertebrates (freshwater)	>10	1 year	since 2001 ongoing	SGN, HLNUG
Biotic	Aquatic	Biological sampling	Macrophytes	>10	4 years	since 2005 ongoing	SGN, HLNUG
Biotic	Aquatic and terrestrial	Biological sampling	Culcidae, terrestric Gastropods, Odonata, Opiliones, Amphibians, Spongilidae, Birds, Fish	different		single occasion	SGN
Biotic	Terrestrial	Biological sampling	Spiders	>10	6 months	since 2007 ongoing	SGN
Biotic	Terrestrial	Biological sampling	Carabidae	>10	6 months	since 2007 ongoing	SGN
Biotic	Terrestrial	Biological sampling	Vegetations	>20	4 years	since 2007 ongoing	SGN
Biotic	Terrestrial		Biotope type	1	10 years	since 2007 ongoing	SGN
Biotic	Aquatic and terrestrial	Biological sampling	eDNA Water and Soil	6	1 year	since 2015 ongoing	SGN
Biotic	Terrestrial	Biological sampling	Flying insects	6	1 year	since 2019 ongoing	SGN
Biotic	Terrestrial	Biological sampling	Wildcats	>20	1 year	since 2017 ongoing	SGN
Biotic	Terrestrial	Biological sampling	Birds	6	3 years	since 2015 ongoing	SGN
Abiotic	Aquatic	Hydrological	Water level and water discharge	>10	continously	since 1956 ongoing	HLNUG
Abiotic	Aquatic	Water chemistry	Water chemistry	>20	continously	since 2007 ongoing	HLNUG
			total suspended solids (TSS, TSSs), ammonium, boron (B), biochemical oxygen demand (BOD), calcium (Ca), chloride (HCl), electric conductivity, potassium (K), magnesium (Mg), sodium (Na), nitrate, nitrite, ortho-phosphate as P, phosphorous (total) as P, pH (in field), Oxygen (in field), nitrogen (total), total organic carbon (TOC), air temperature, water temperature				
Abiotic	Aquatic	Water temperature	Water temperature	>20	continously	since 1980 ongoing	SGN
Abiotic	Terrestrial	Climatic	Weather station	>5	continously	since 1931 ongoing	DWD
			air temperature, air pressure, air moisture, wind direction, wind velocity, precipitation, sunshine duration, visibility, radioactivity				
Abiotic	Terrestrial	Forestry	Forestry (Core II)	1	1 year	since 2010 ongoing	Hessen Forst
Abiotic	Terrestrial	Soil	Soil	>5	5 years	since 1992 ongoing	HLNUG
			pH, organic carbon, total nitrogen, calcium carbonate, cation exchange capacity (CEC), aluminum soluble in oxalate and dithionite (Al), iron (Fe), manganese (Mn), anorganice trace substances: As, Cd, Co, Cr, Cu, Ni, Pb, Tl, V, Zn, (PCDD/F), polychlorinated biphenyls (PCBs), chlorinated hydrocarbon (CC), radio nuclide 137Cs, 134Cs, 40K				
Abiotic		Groundwater chemistry	Groundwater chemistry	>10	6 years	since 2008 ongoing	HLNUG
			nitrate, pesticides (single), pesticides (total), arsenic (As), cadmium (Cd), plumb (Pb), quicksilver (Hg), nickel (Ni), chloride (HCl), sulphate (HSO4), sum of trichloroethylene and tetrachloroethylene				
Abiotic		Groundwater level	Groundwater level	>5	continously	since 2009 ongoing	HLNUG

DWD: Deutscher Wetterdienst, HLNUG: Hessisches Landesamt für Naturschutz, Umwelt und Geologie, NW-FVA: Nordwestdeutsche Forstliche Versuchsanstalt, SGN: Senckenberg

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