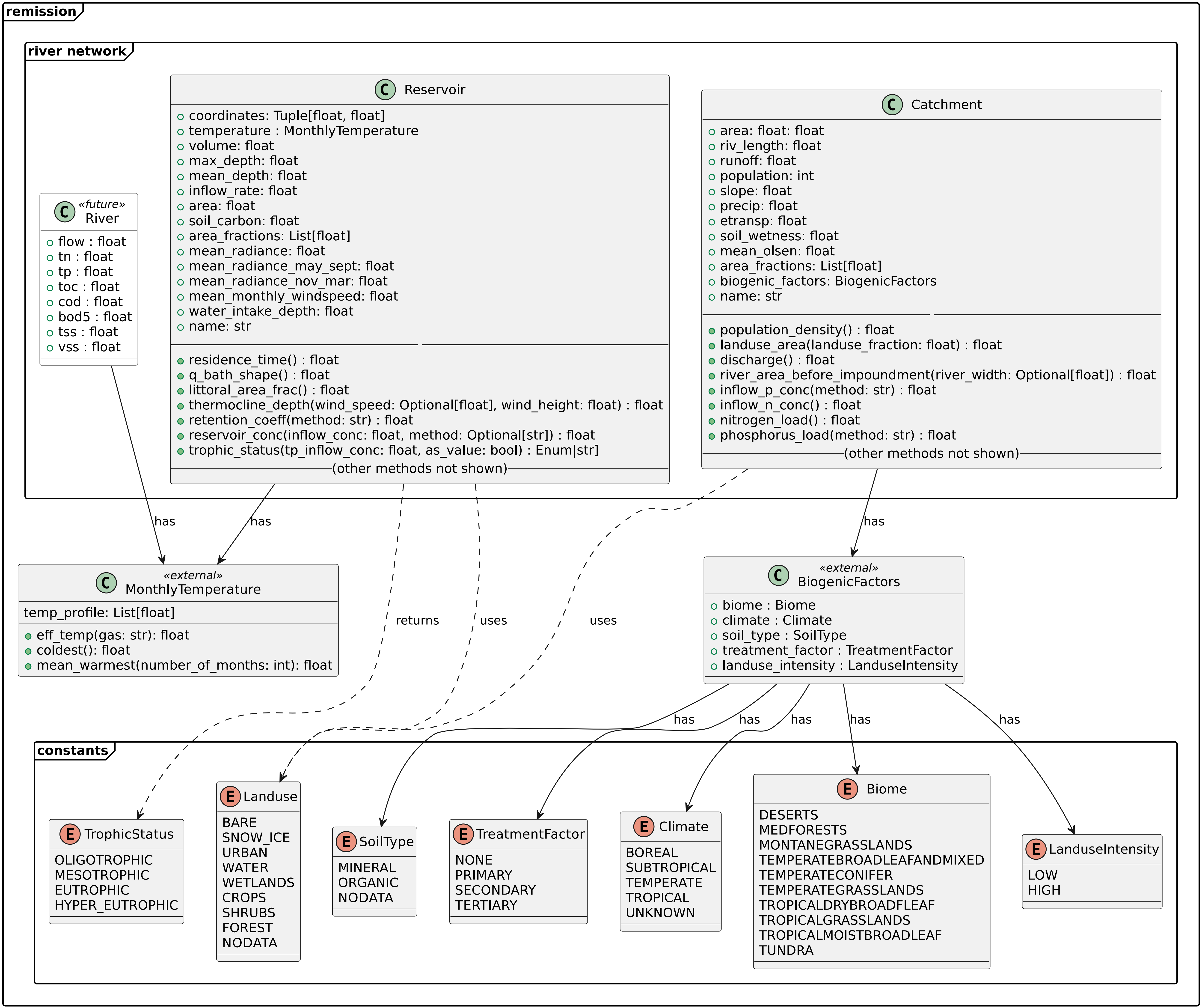
remission
river network
Reservoir
+ coordinates: Tuple[float, float]
+ temperature : MonthlyTemperature
+ volume: float
+ max_depth: float
+ mean_depth: float
+ inflow_rate: float
+ area: float
+ soil_carbon: float
+ area_fractions: List[float]
+ mean_radiance: float
+ mean_radiance_may_sept: float
+ mean_radiance_nov_mar: float
+ mean_monthly_windspeed: float
+ water_intake_depth: float
+ name: str
+ residence_time() : float
+ q_bath_shape() : float
+ littoral_area_frac() : float
+ thermocline_depth(wind_speed: Optional[float], wind_height: float) : float
+ retention_coeff(method: str) : float
+ reservoir_conc(inflow_conc: float, method: Optional[str]) : float
+ trophic_status(tp_inflow_conc: float, as_value: bool) : Enum|str
(other methods not shown)
Catchment
+ area: float: float
+ riv_length: float
+ runoff: float
+ population: int
+ slope: float
+ precip: float
+ etransp: float
+ soil_wetness: float
+ mean_olsen: float
+ area_fractions: List[float]
+ biogenic_factors: BiogenicFactors
+ name: str
+ population_density() : float
+ landuse_area(landuse_fraction: float) : float
+ discharge() : float
+ river_area_before_impoundment(river_width: Optional[float]) : float
+ inflow_p_conc(method: str) : float
+ inflow_n_conc() : float
+ nitrogen_load() : float
+ phosphorus_load(method: str) : float
(other methods not shown)
«future»
River
+ flow : float
+ tn : float
+ tp : float
+ toc : float
+ cod : float
+ bod5 : float
+ tss : float
+ vss : float
has
has
returns
uses
uses
has
«external»
MonthlyTemperature
temp_profile: List[float]
+ eff_temp(gas: str): float
+ coldest(): float
+ mean_warmest(number_of_months: int): float
«external»
BiogenicFactors
+ biome : Biome
+ climate : Climate
+ soil_type : SoilType
+ treatment_factor : TreatmentFactor
+ landuse_intensity : LanduseIntensity
has
has
has
has
has
constants
TrophicStatus
OLIGOTROPHIC
MESOTROPHIC
EUTROPHIC
HYPER_EUTROPHIC
Landuse
BARE
SNOW_ICE
URBAN
WATER
WETLANDS
CROPS
SHRUBS
FOREST
NODATA
SoilType
MINERAL
ORGANIC
NODATA
TreatmentFactor
NONE
PRIMARY
SECONDARY
TERTIARY
Climate
BOREAL
SUBTROPICAL
TEMPERATE
TROPICAL
UNKNOWN
Biome
DESERTS
MEDFORESTS
MONTANEGRASSLANDS
TEMPERATEBROADLEAFANDMIXED
TEMPERATECONIFER
TEMPERATEGRASSLANDS
TROPICALDRYBROADFLEAF
TROPICALGRASSLANDS
TROPICALMOISTBROADLEAF
TUNDRA
LanduseIntensity
LOW
HIGH