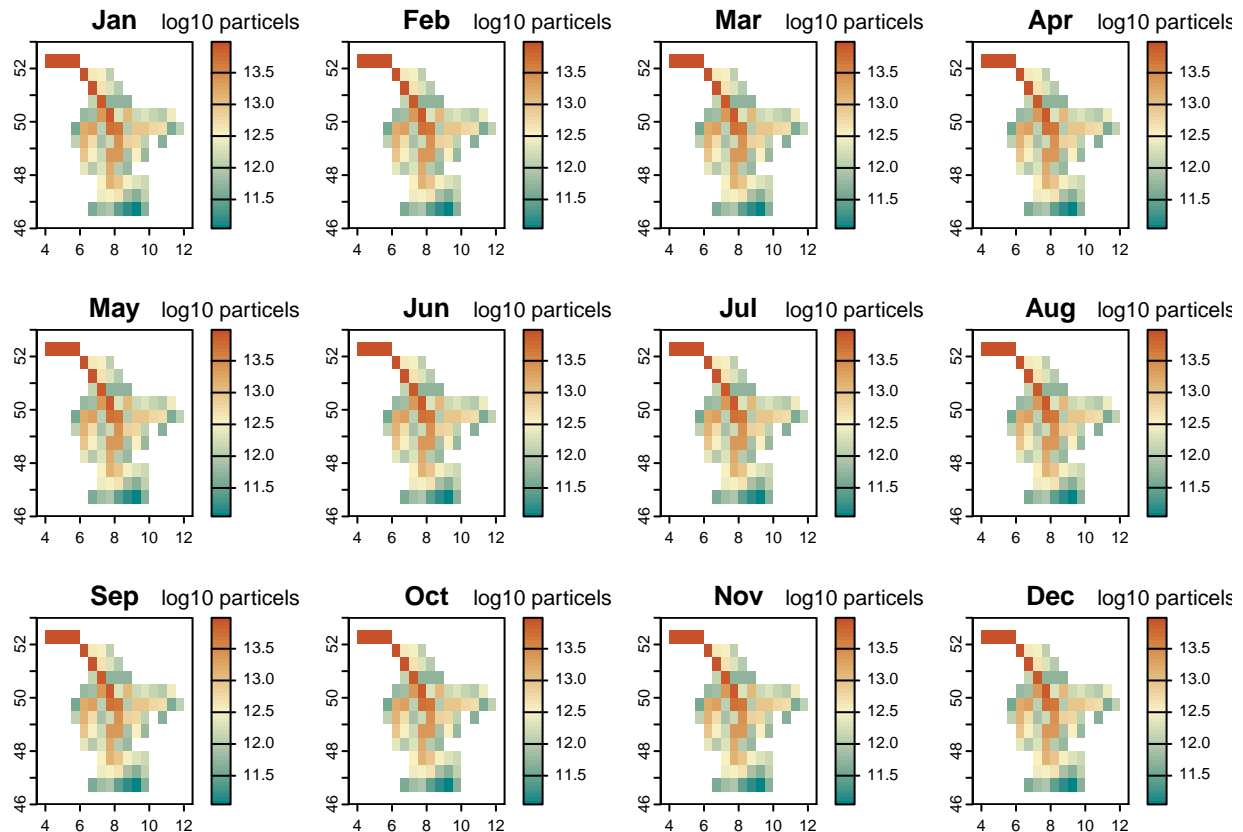


Rhine Basin Concentrations

River Loads

```
paths <- list.files(testthat::test_path("output", "rhine/hydrology/loads"), pattern = ".*\\.tif$", full.names = TRUE)
rast_loads <- terra::rast(paths)
terra::plot(log10(rast_loads), col = hcl.colors(50, "Geyser"), plg = list(title = "log10 particels"))
```



Summary statistics of the log10 river loads

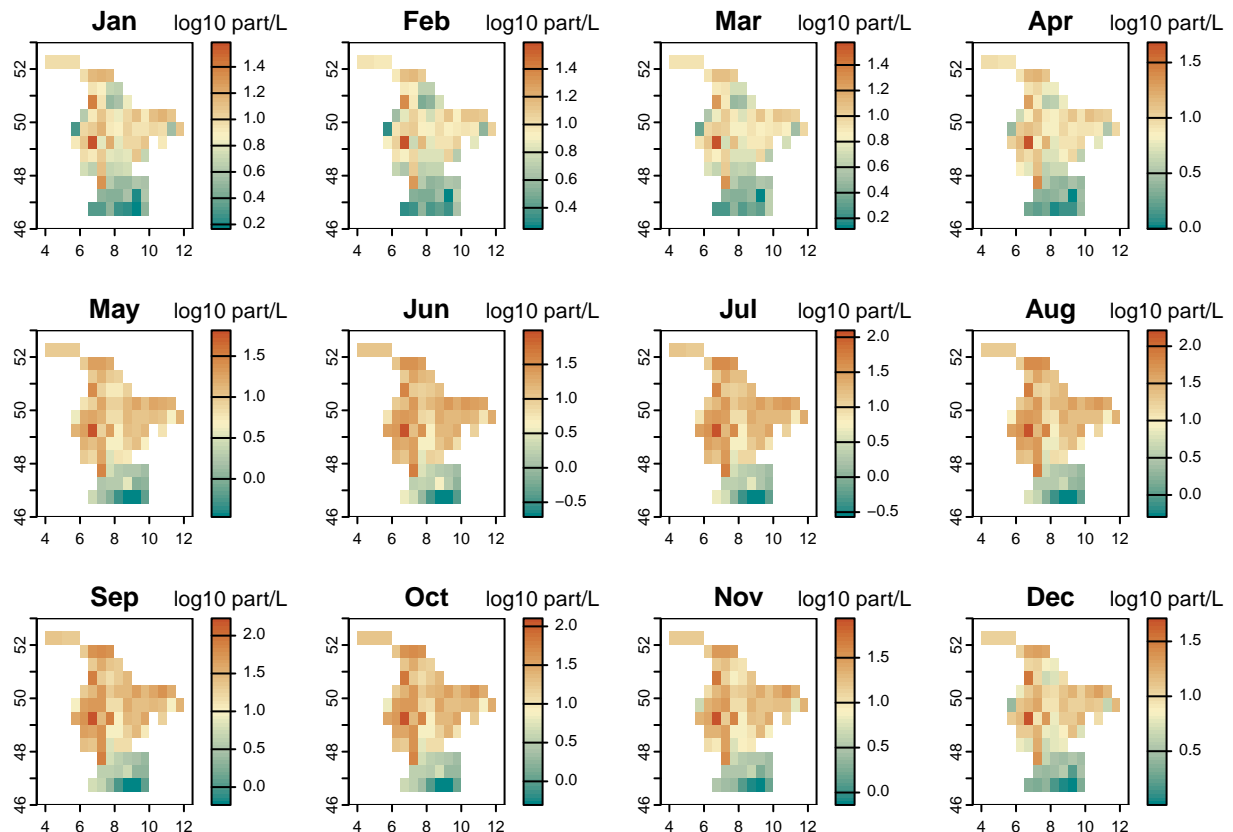
```
terra::summary(log10(rast_loads))
```

##	Jan	Feb	Mar	Apr
## Min.	:11.04	Min. :11.04	Min. :11.05	Min. :11.05
## 1st Qu.	:12.01	1st Qu.:12.01	1st Qu.:12.01	1st Qu.:12.01
## Median	:12.32	Median :12.32	Median :12.32	Median :12.32
## Mean	:12.50	Mean :12.50	Mean :12.50	Mean :12.50
## 3rd Qu.	:12.96	3rd Qu.:12.96	3rd Qu.:12.96	3rd Qu.:12.96

```
## Max. :13.99 Max. :13.99 Max. :13.99 Max. :13.99
## NA's :168 NA's :168 NA's :168 NA's :168
## May Jun Jul Aug
## Min. :11.05 Min. :11.05 Min. :11.05 Min. :11.05
## 1st Qu.:12.01 1st Qu.:12.01 1st Qu.:12.01 1st Qu.:12.01
## Median :12.32 Median :12.32 Median :12.32 Median :12.32
## Mean :12.50 Mean :12.50 Mean :12.50 Mean :12.50
## 3rd Qu.:12.96 3rd Qu.:12.96 3rd Qu.:12.96 3rd Qu.:12.96
## Max. :13.99 Max. :13.99 Max. :13.99 Max. :13.99
## NA's :168 NA's :168 NA's :168 NA's :168
## Sep Oct Nov Dec
## Min. :11.05 Min. :11.05 Min. :11.05 Min. :11.05
## 1st Qu.:12.01 1st Qu.:12.01 1st Qu.:12.01 1st Qu.:12.01
## Median :12.32 Median :12.32 Median :12.32 Median :12.32
## Mean :12.50 Mean :12.50 Mean :12.50 Mean :12.50
## 3rd Qu.:12.96 3rd Qu.:12.96 3rd Qu.:12.96 3rd Qu.:12.96
## Max. :13.99 Max. :13.99 Max. :13.99 Max. :13.99
## NA's :168 NA's :168 NA's :168 NA's :168
```

River Concentrations

```
paths <- list.files(testthat::test_path("output","rhine/hydrology/conc"), pattern = ".*\\.tif$", full.names = TRUE)
rast_conc <- terra::rast(paths)
terra::plot(log10(rast_conc / 1e3), col = hcl.colors(50,"Geyser"), plg = list(title = "log10 part/L"))
```



Summary statistics of the log10 oocysts/L

```
terra::summary(log10(rast_conc/1e3))
```

##	Jan	Feb	Mar	Apr
##	Min. :0.1655	Min. :0.2476	Min. :0.1164	Min. : -0.00293
##	1st Qu.:0.6281	1st Qu.:0.6616	1st Qu.:0.5940	1st Qu.: 0.57577
##	Median :0.9167	Median :0.9137	Median :0.8470	Median : 0.86899
##	Mean :0.8341	Mean :0.8451	Mean :0.7799	Mean : 0.79262
##	3rd Qu.:1.0114	3rd Qu.:1.0032	3rd Qu.:0.9497	3rd Qu.: 1.00052
##	Max. :1.5867	Max. :1.5914	Max. :1.5771	Max. : 1.68198
##	NA's :168	NA's :168	NA's :168	NA's :168
##	May	Jun	Jul	Aug
##	Min. : -0.4647	Min. : -0.7132	Min. : -0.5697	Min. : -0.2959
##	1st Qu.: 0.6436	1st Qu.: 0.6595	1st Qu.: 0.7696	1st Qu.: 0.9339
##	Median : 0.9519	Median : 1.0475	Median : 1.1682	Median : 1.3118
##	Mean : 0.8283	Mean : 0.9214	Mean : 1.0385	Mean : 1.1880
##	3rd Qu.: 1.1464	3rd Qu.: 1.2960	3rd Qu.: 1.4094	3rd Qu.: 1.5630
##	Max. : 1.8144	Max. : 1.9940	Max. : 2.0981	Max. : 2.2134
##	NA's :168	NA's :168	NA's :168	NA's :168
##	Sep	Oct	Nov	Dec
##	Min. : -0.2359	Min. : -0.3048	Min. : -0.1383	Min. : 0.01022
##	1st Qu.: 0.9670	1st Qu.: 0.8849	1st Qu.: 0.8412	1st Qu.:0.67811
##	Median : 1.3515	Median : 1.2506	Median : 1.1686	Median :1.01170
##	Mean : 1.2300	Mean : 1.1349	Mean : 1.0380	Mean :0.90122
##	3rd Qu.: 1.5942	3rd Qu.: 1.4822	3rd Qu.: 1.3270	3rd Qu.:1.12512
##	Max. : 2.2281	Max. : 2.1035	Max. : 1.9381	Max. :1.70984
##	NA's :168	NA's :168	NA's :168	NA's :168