Get simulated EC by stage

```
##
## Attaching package: 'lubridate'

## The following objects are masked from 'package:base':
##
##     date, intersect, setdiff, union

## Processing 179 ECs...

## 448 of 1074 ECs with a |cv|<0.0001 were removed!

##     year_loc year location     yield Germ-Emer_Drainage Germ-Emer_Eo
## 1  2014-IAH2 2014     IAH2 12822.241          0.0000000     3.873993
## 7  2014-IAH3 2014     IAH3 12111.696          0.0000000     4.174833
## 13 2014-IAH4 2014     IAH4 11747.850          0.0000000     3.500000
## 19 2014-ILH1 2014     ILH1 10254.716          1.3413733     3.316873
## 25 2014-INH1 2014     INH1 11096.717          0.2971077     3.609649
## 31 2014-MNH1 2014     MNH1  8359.294          0.0000000     2.761503
##    Germ-Emer_Eos Germ-Emer_Es
## 1       2.057100     2.038896
## 7       2.157148     2.157148
## 13      1.685070     1.677582
## 19      1.594083     1.511864
## 25      1.953309     1.894888
## 31      1.546910     1.489685
```

Environmental covariates (EC) summary

Phase	Name	nEC
P1	Germ-Emer	101
P2	Emer-FlInit	105
P3	FlInit-FgLeaf	105
P4	FgLeaf-Flow	105
P5	Flow-StartGF	105
P6	StartGF-Matu	105

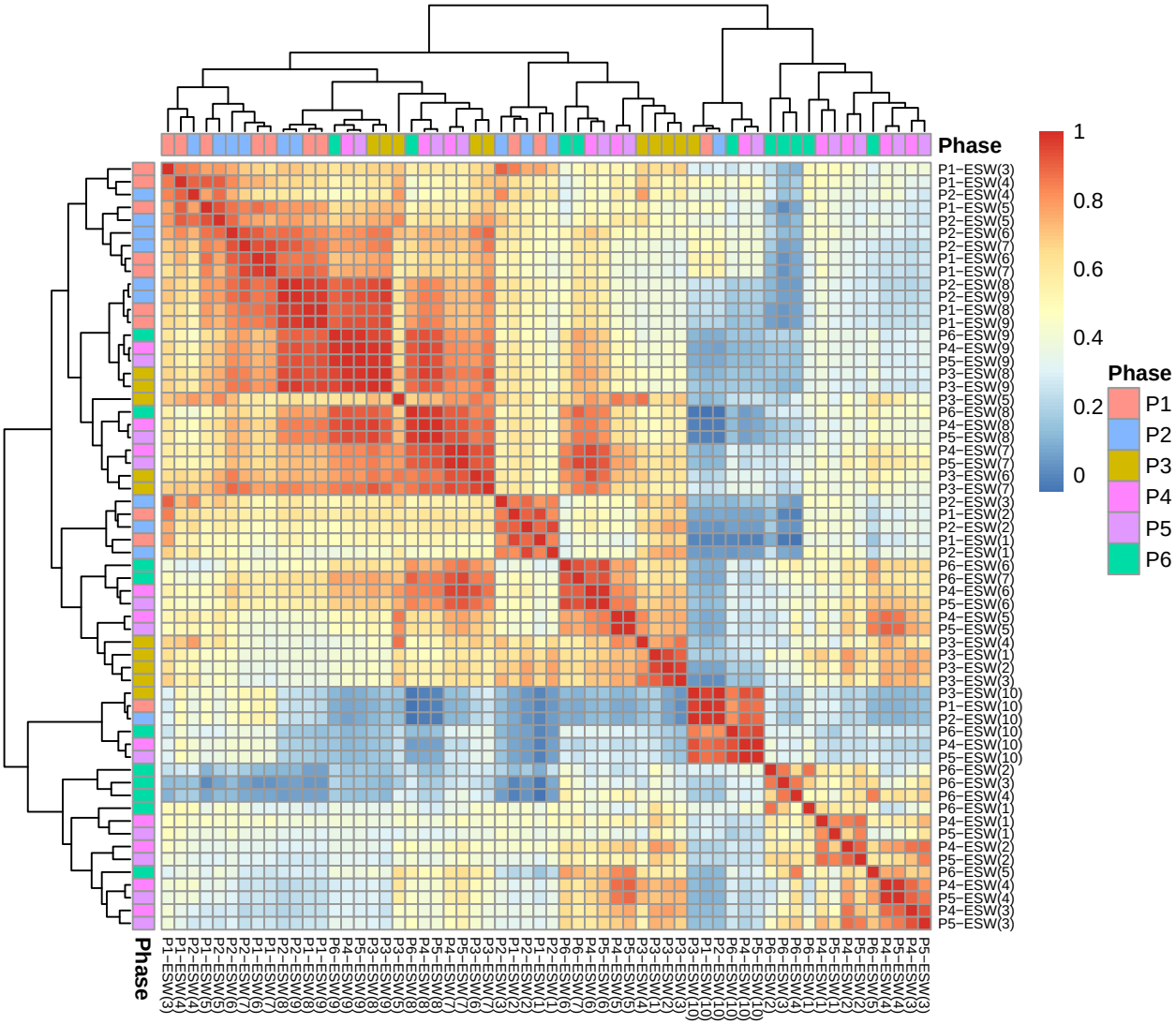
Hydric stress-related EC

	Name	Description
1	Eo	Potential evapotransipration of the whole soil-plant system (mm)
2	Eos	Potential evaporation from soil surface (mm)
3	Es	Actual (realised) soil water evaporation (mm)
4	Evap	Evaporation (mm)
5	ESW(i)	Extractable soil water relative to LL15 (mm)
6	Flow(i)	Flow - Water moving up (mm)
7	PAW(i)	Plant available water SW-LL15 (mm/mm)

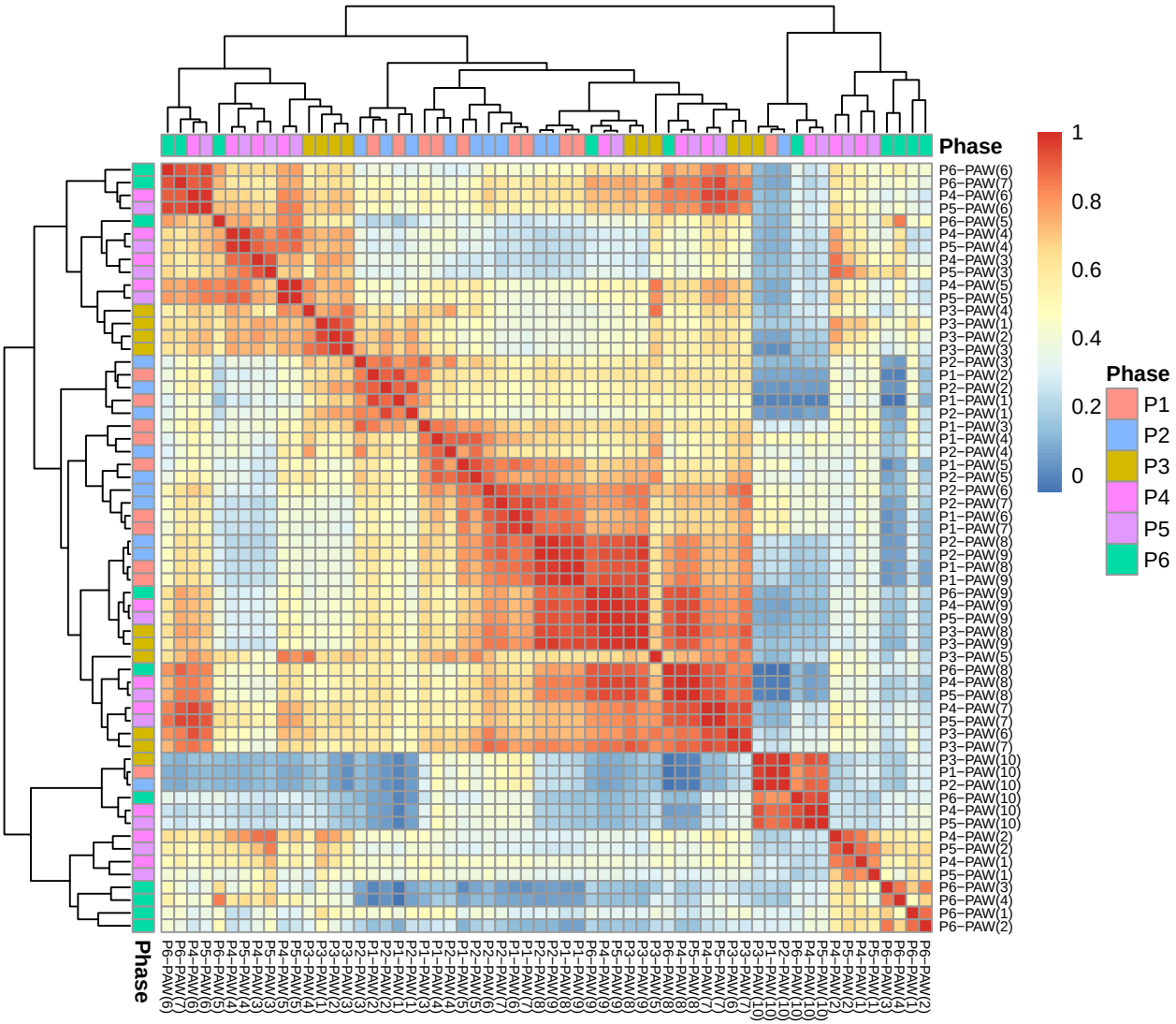
i: soil profile ($i = 1, ..., 10$) each 20 cm

Correlation between ECs

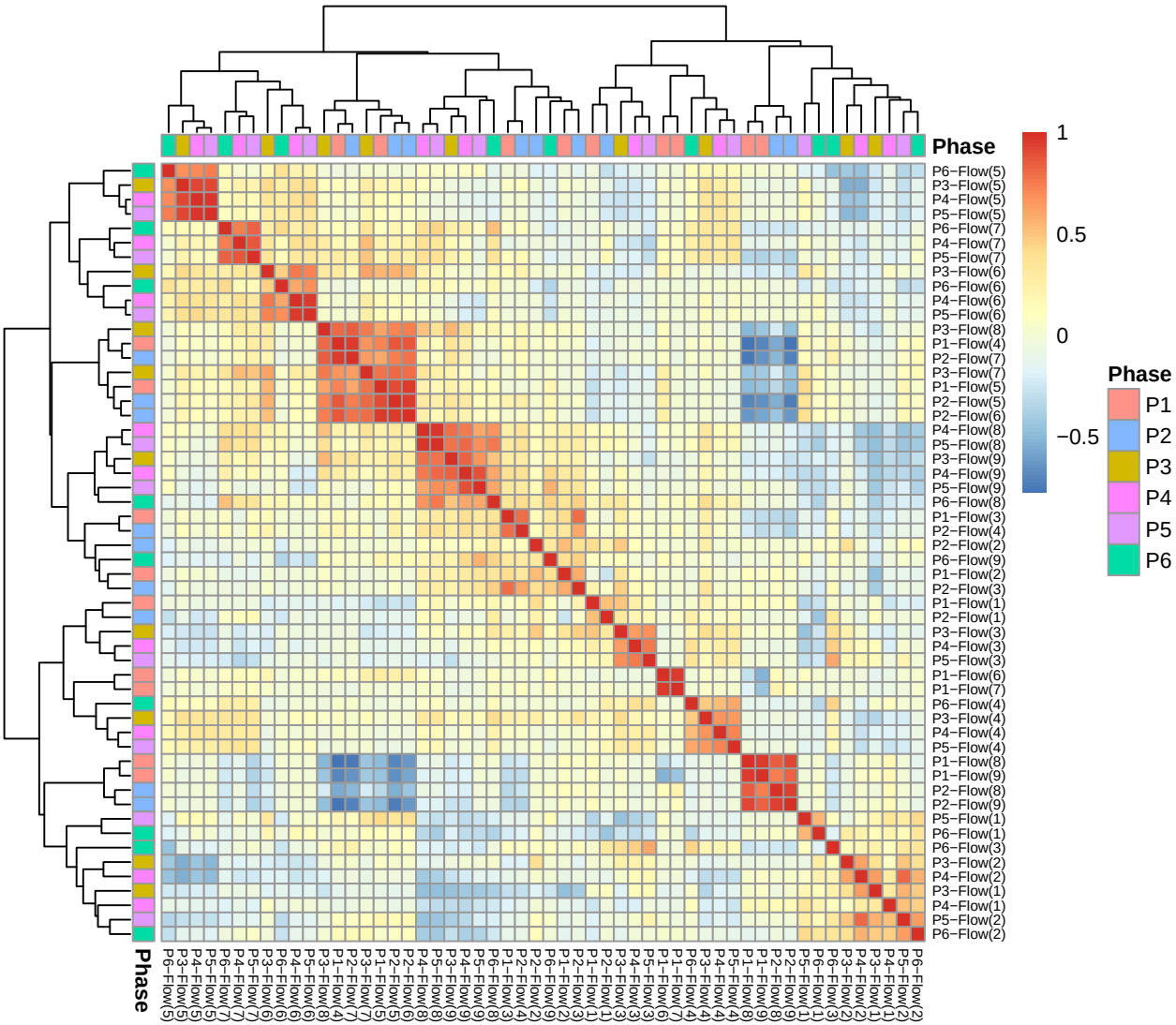
ESW across phases



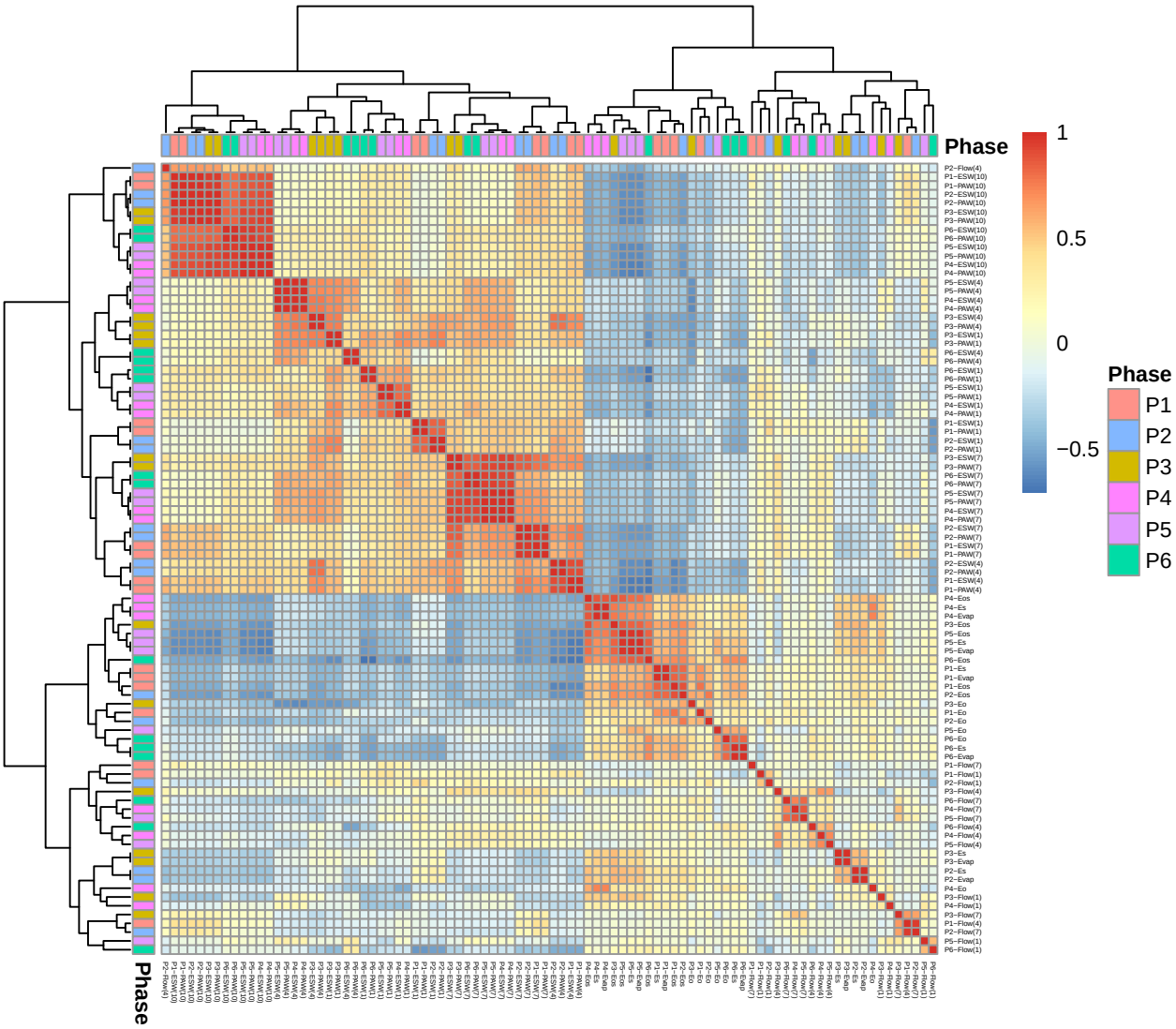
PAW across phases



Flow across phases



Eo, Eos, Es, Evap, Flow(i), ESW(i), and PAW(i), $i = 1, 4, 7, 10$



Principal Components decomposition of the covariance among ECs