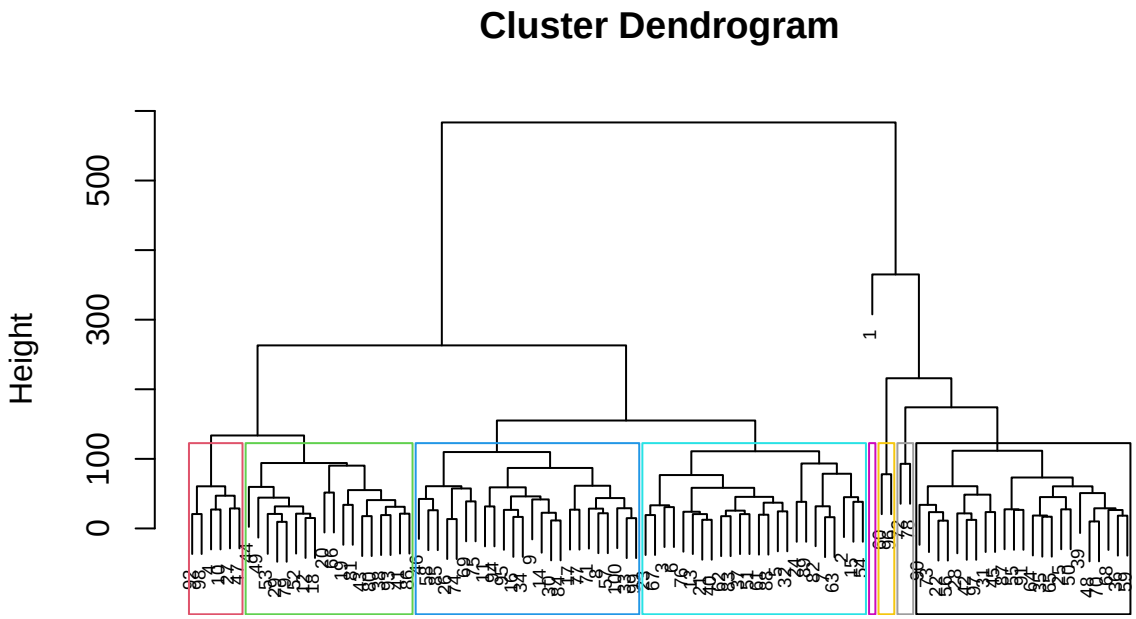
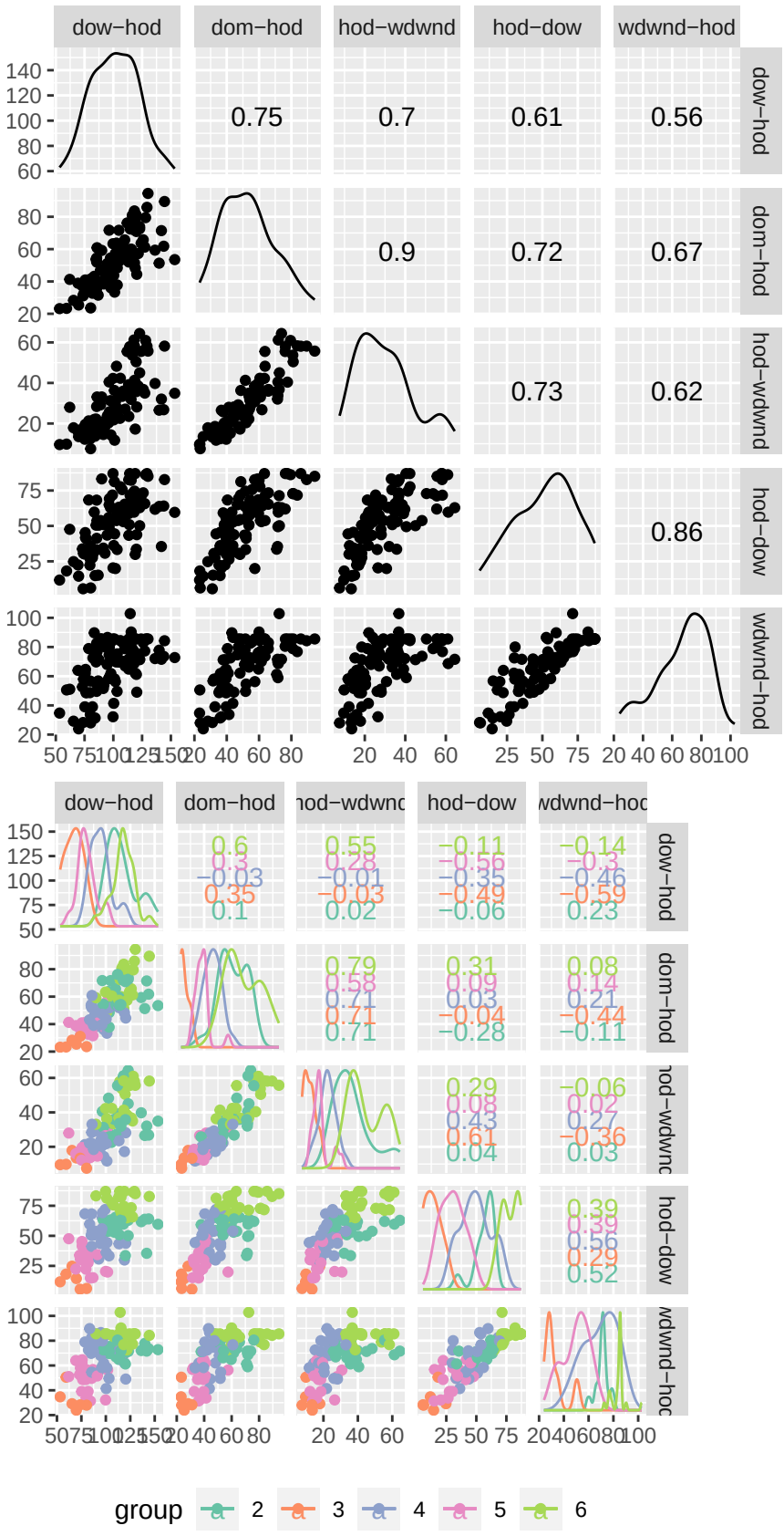
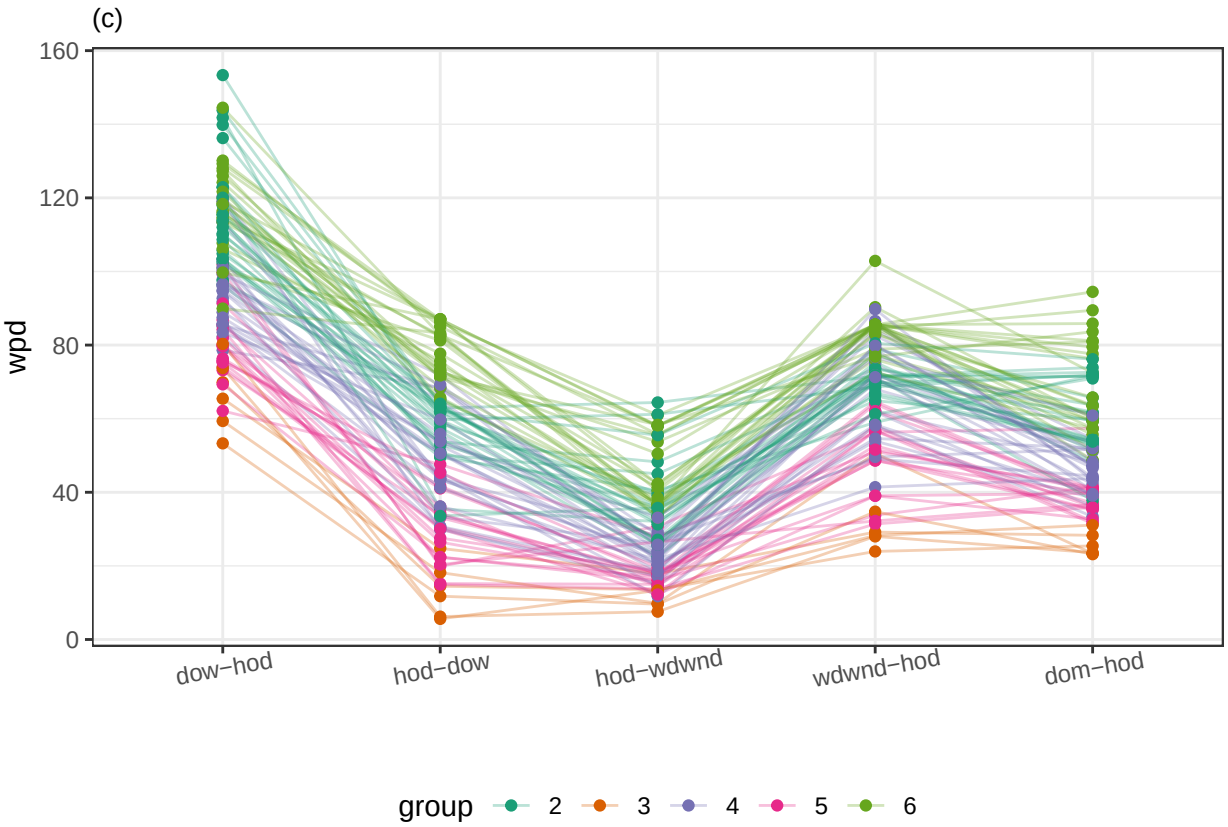
Algorithm using wpd values for clustering 100 households

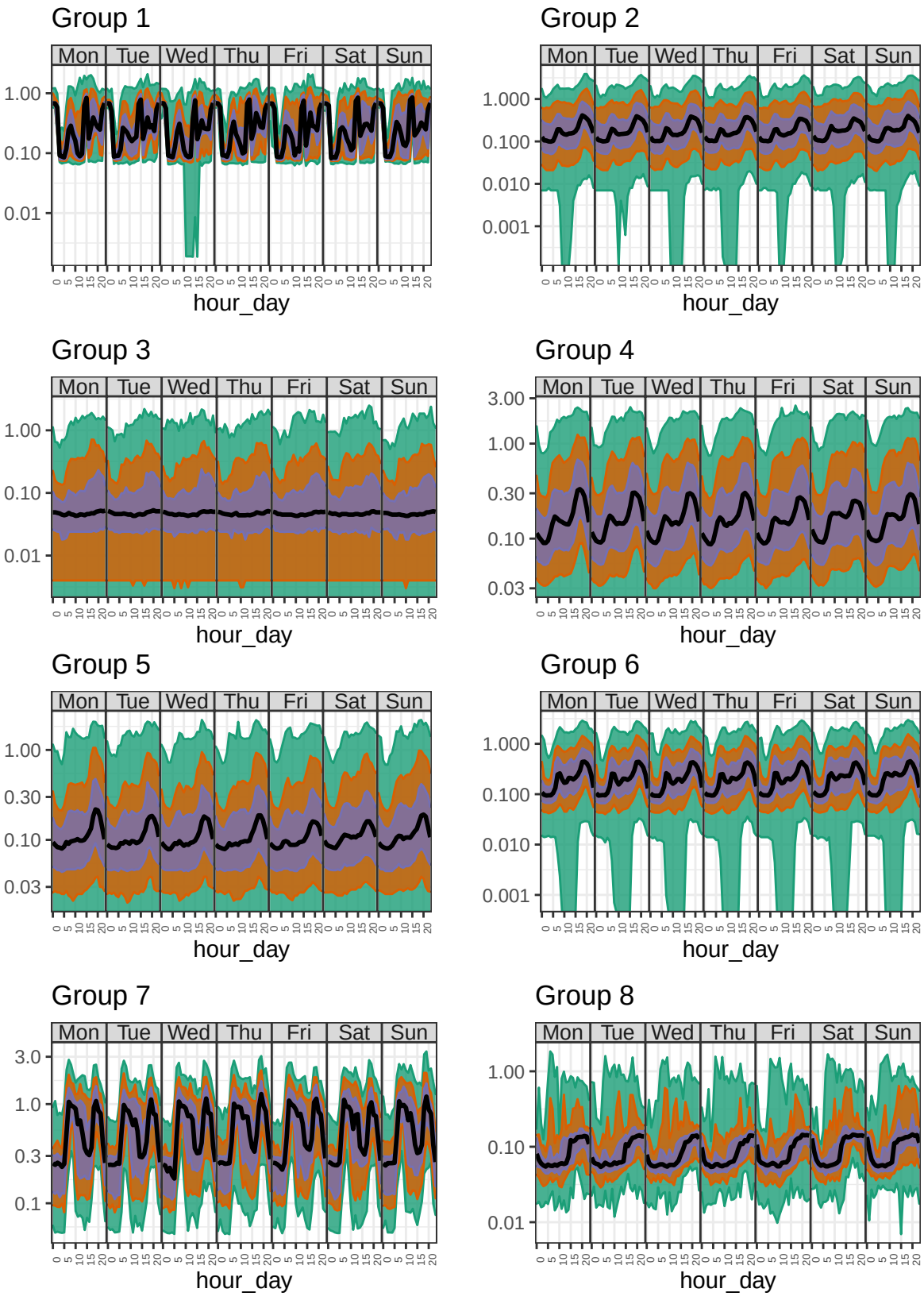



dow−hod
dom−hod
hod−wdwnd
hod−dow
wdwnd−hod
0.75
0.7
0.61
0.56
0.9
0.72
0.67
0.73
0.62
0.86
group
2
3
4
5
6



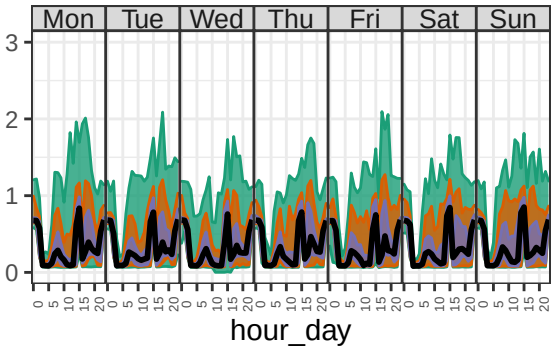

```
## # A tibble: 8 x 2
##   group     n
##   <int> <int>
## 1     1     1
## 2     2    24
## 3     3     6
## 4     4    24
## 5     5    18
## 6     6    23
## 7     7     2
## 8     8     2
```

Regular scale

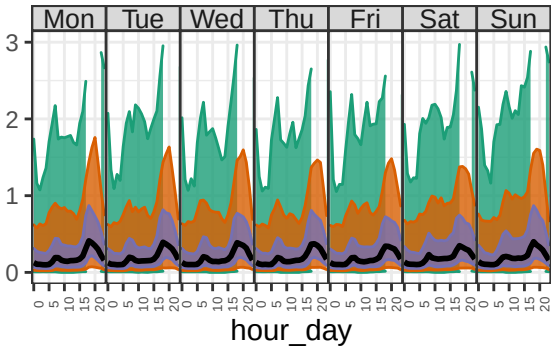

Group 1
Mon Tue Wed Thu Fri Sat Sun
1.00
0.10
0.01
hour_day
Group 2
Mon Tue Wed Thu Fri Sat Sun
1.000
0.100
0.010
0.001
hour_day
Group 3
Mon Tue Wed Thu Fri Sat Sun
1.00
0.10
0.01
hour_day
Group 4
Mon Tue Wed Thu Fri Sat Sun
3.00
1.00
0.30
0.10
0.03
hour_day
Group 5
Mon Tue Wed Thu Fri Sat Sun
1.00
0.30
0.10
0.03
hour_day
Group 6
Mon Tue Wed Thu Fri Sat Sun
1.000
0.100
0.010
0.001
hour_day
Group 7
Mon Tue Wed Thu Fri Sat Sun
3.0
1.0
0.3
0.1
hour_day
Group 8
Mon Tue Wed Thu Fri Sat Sun
1.00
0.10
0.01
hour_day

Same scale

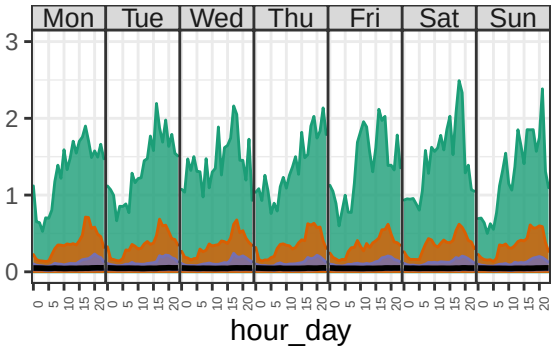
Group 1



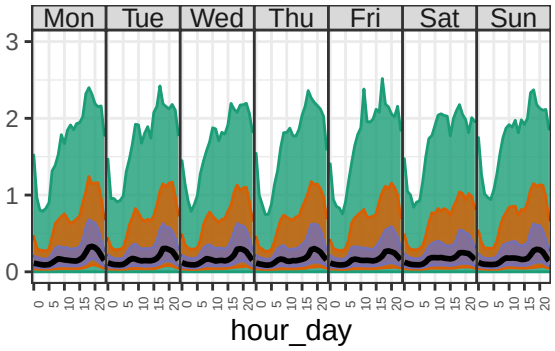
Group 2



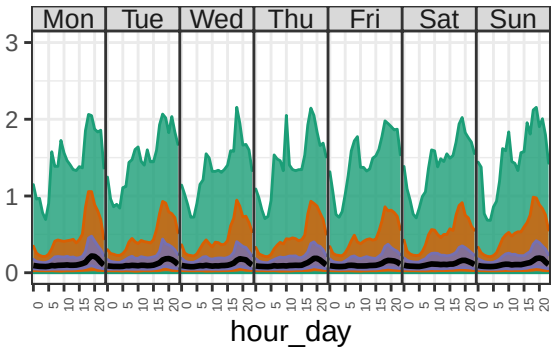
Group 3



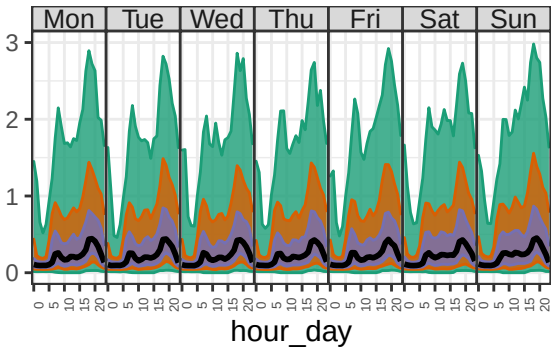
Group 4



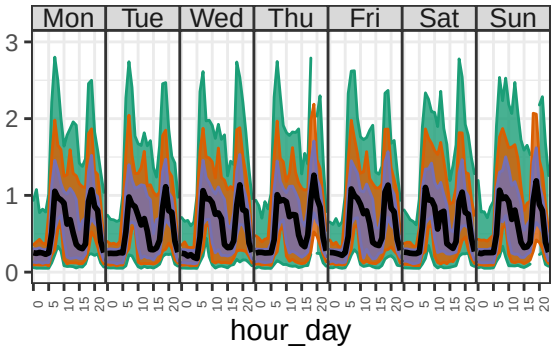
Group 5



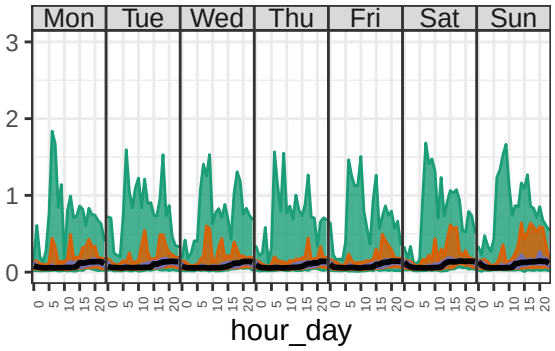
Group 6



Group 7

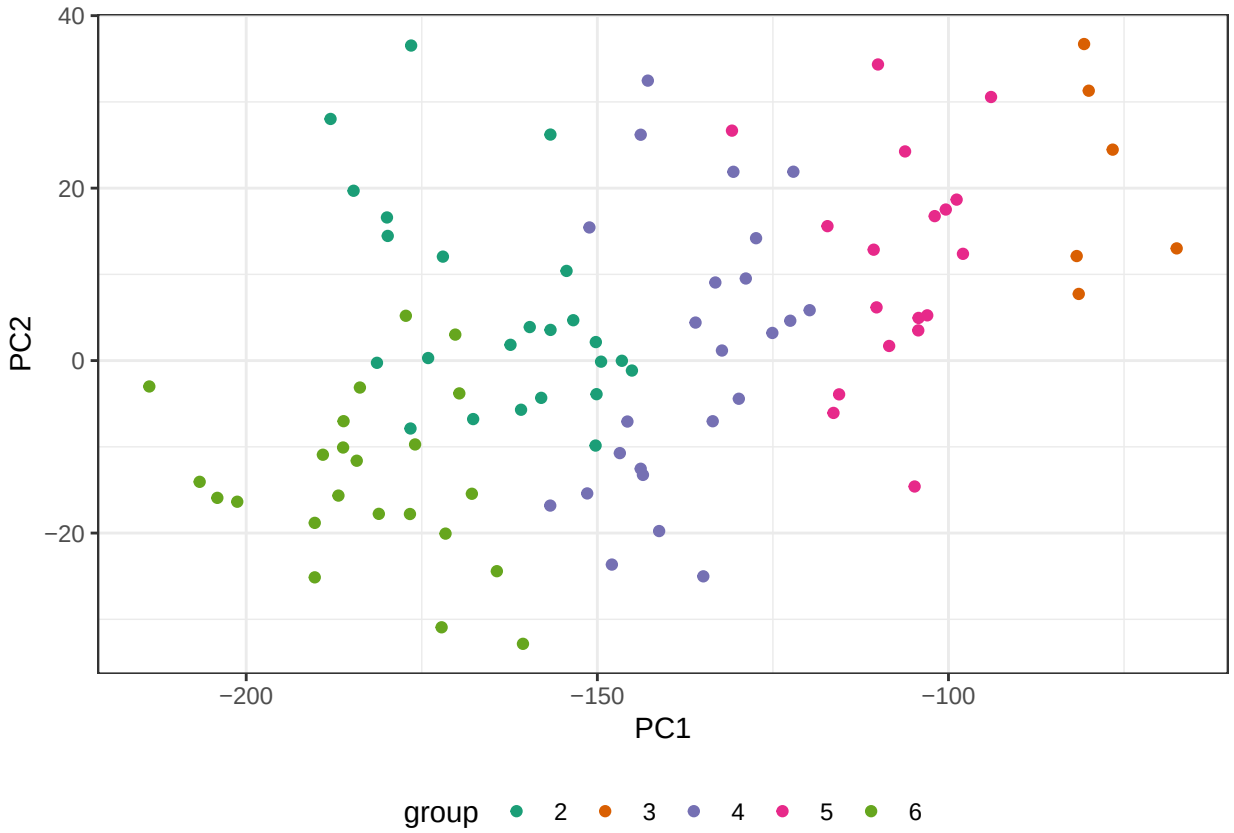


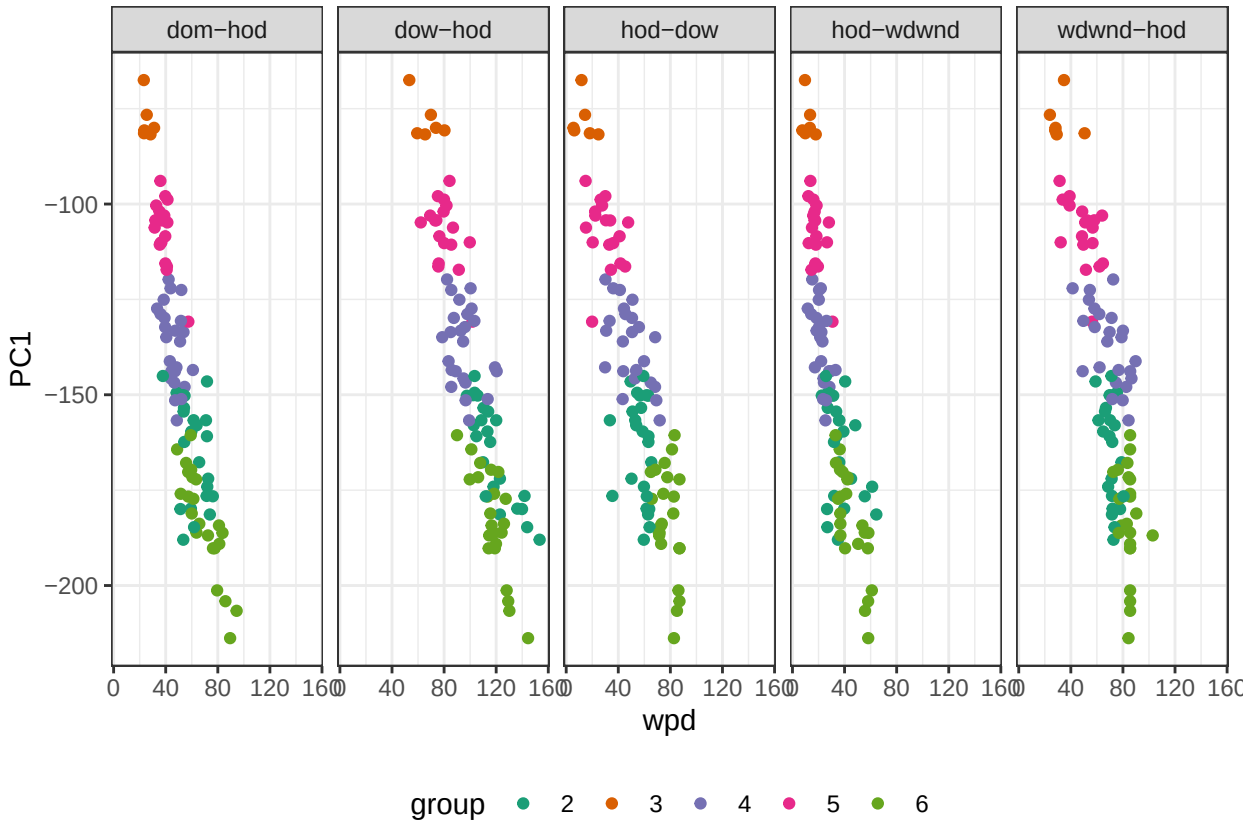
Group 8



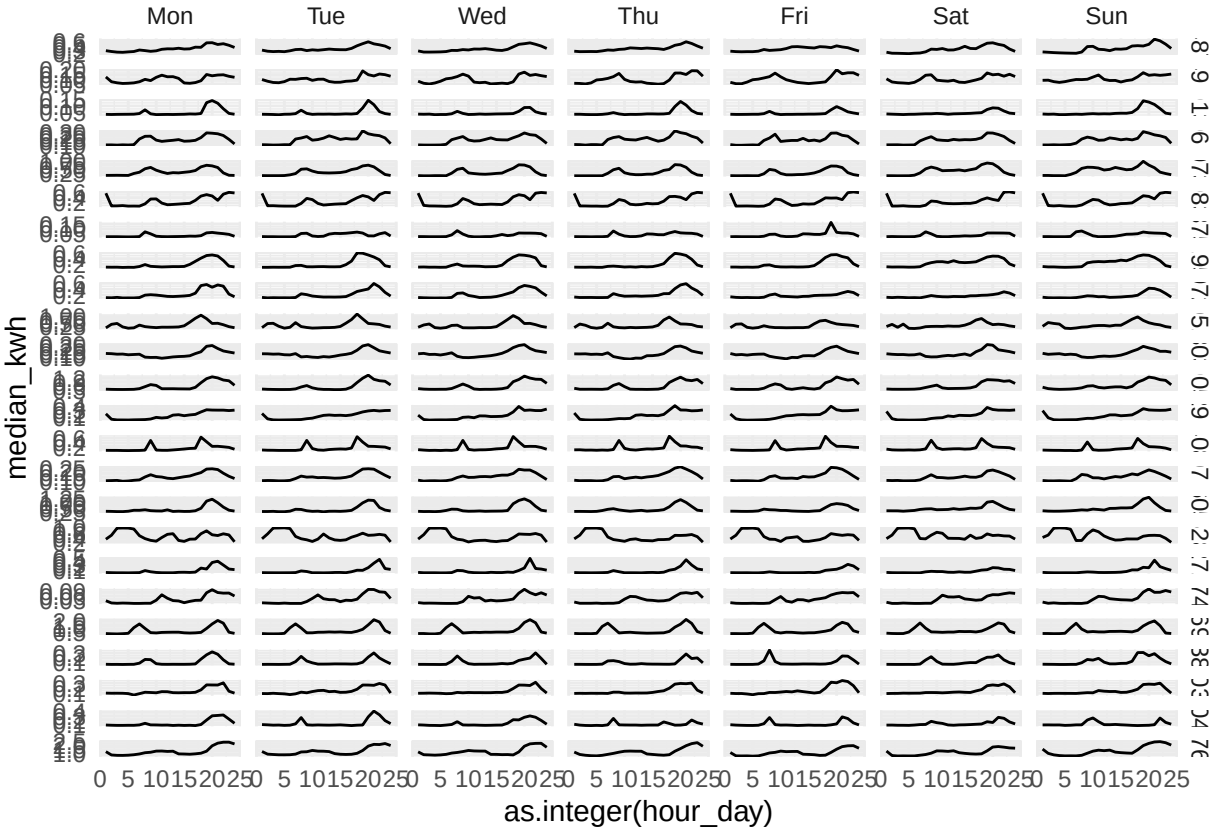
PCA based clustering

```
## Importance of components:
##                             PC1      PC2      PC3     PC4     PC5
## Standard deviation     150.3097 16.41631 11.78653 7.71507 4.38198
## Proportion of Variance   0.9789  0.01168  0.00602 0.00258 0.00083
## Cumulative Proportion    0.9789  0.99057  0.99659 0.99917 1.00000
```

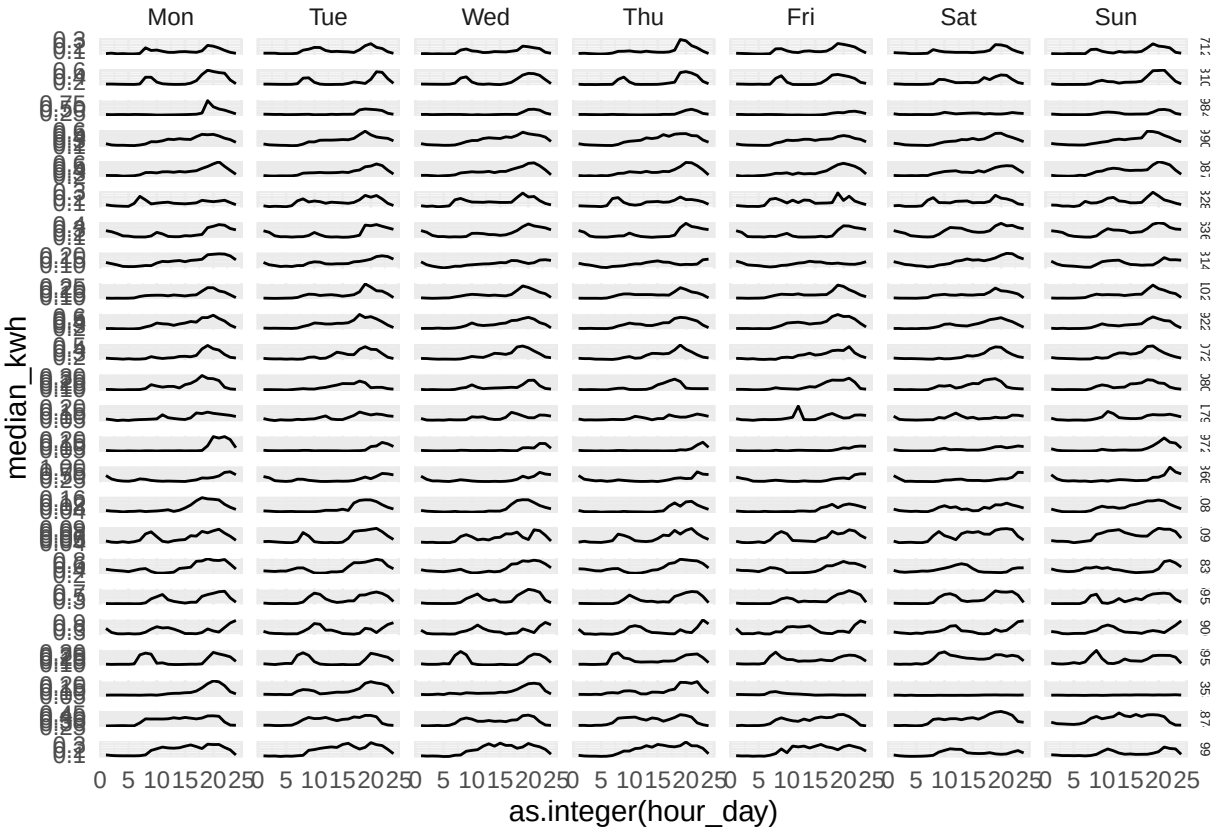




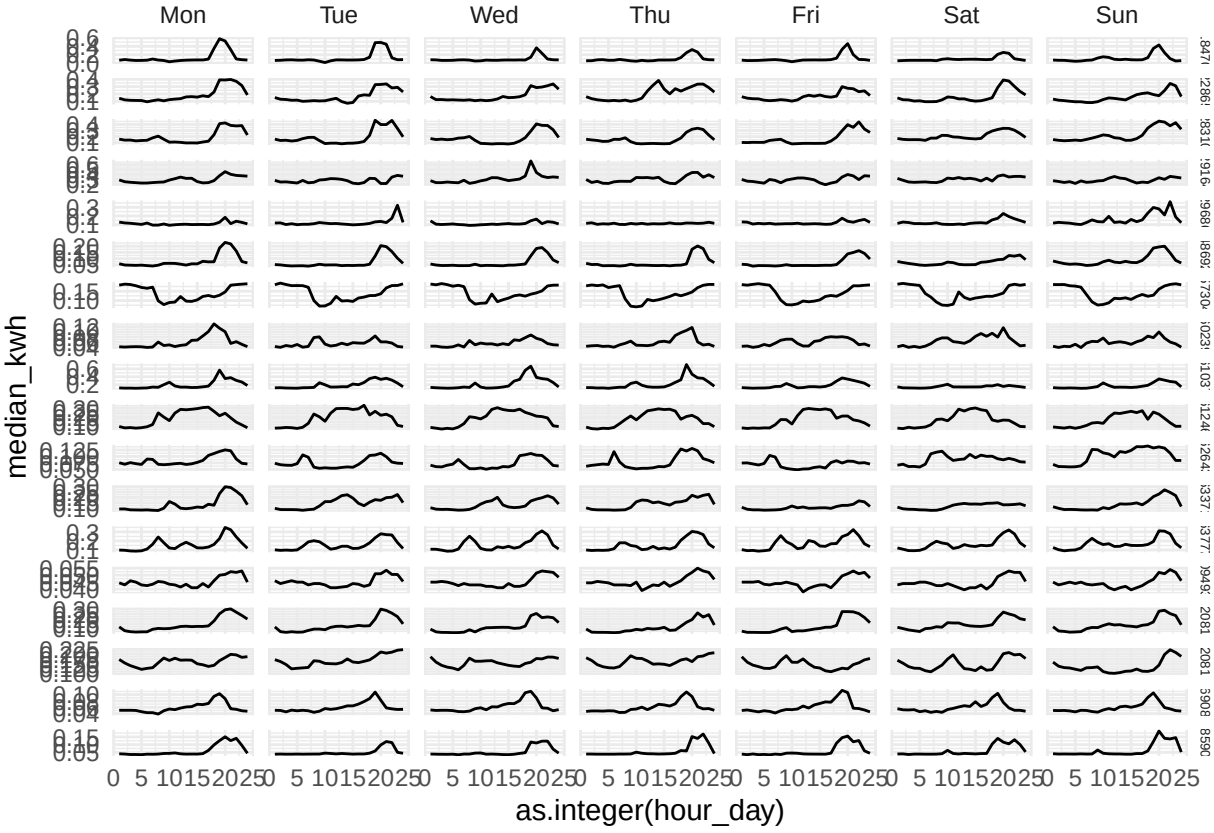
One dimensional scale since PC1 explains almost all variation?



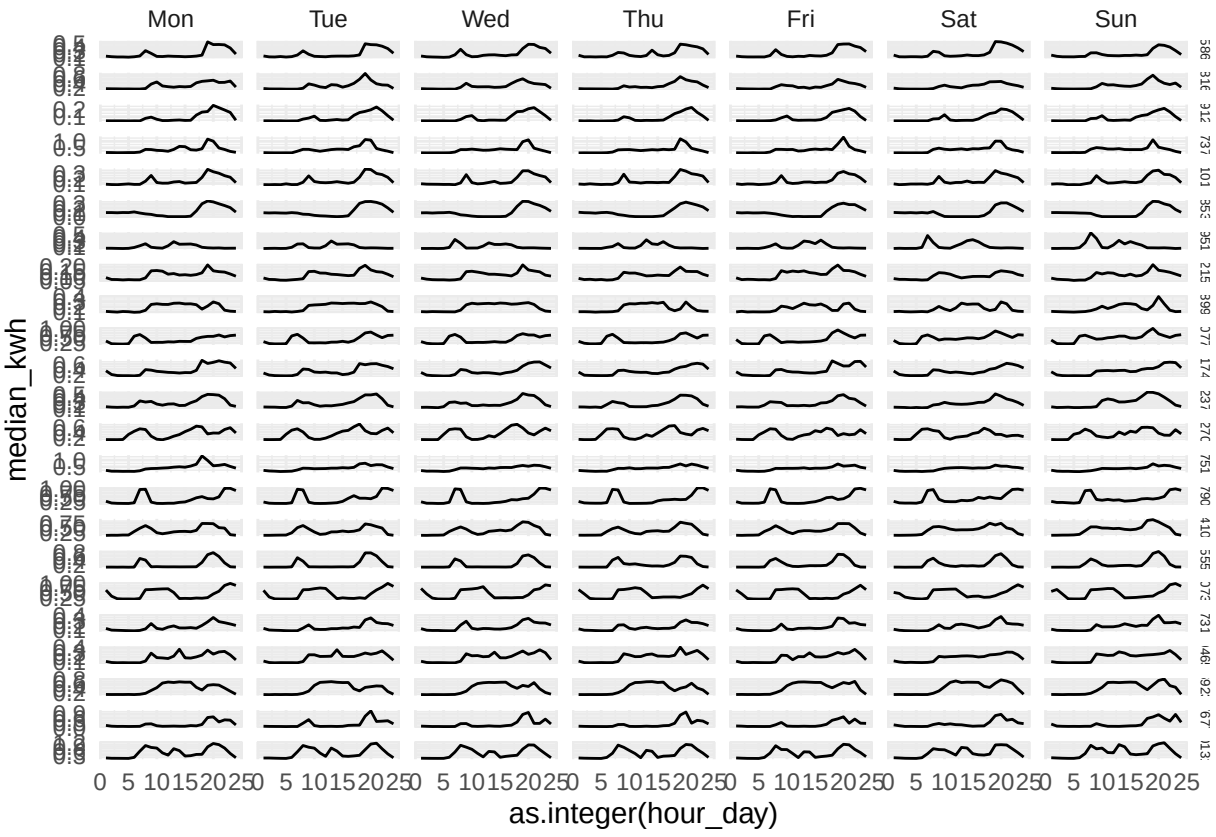
#Group2: n=24



#Group4: n=24



#Group5: n=18



#Group6: n=23