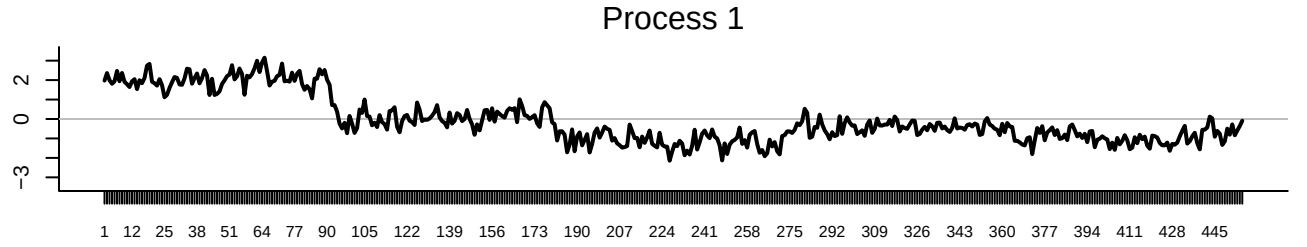
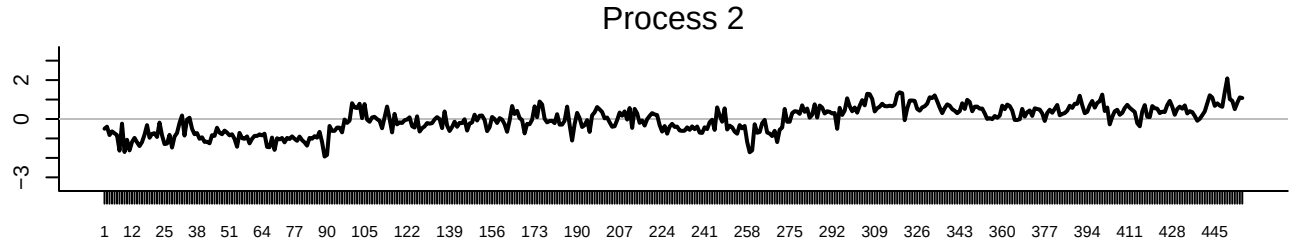

Process 1
−3
0
2
1 12 25 38 51 64 77 90 105 122 139 156 173 190 207 224 241 258 275 292 309 326 343 360 377 394 411 428 445


Process 2
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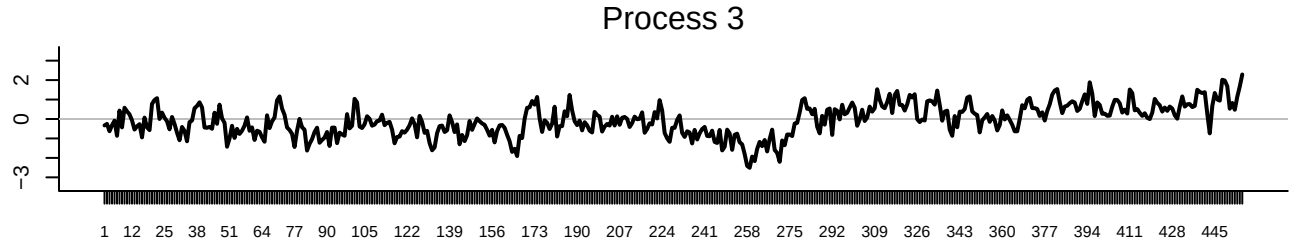
Process 3
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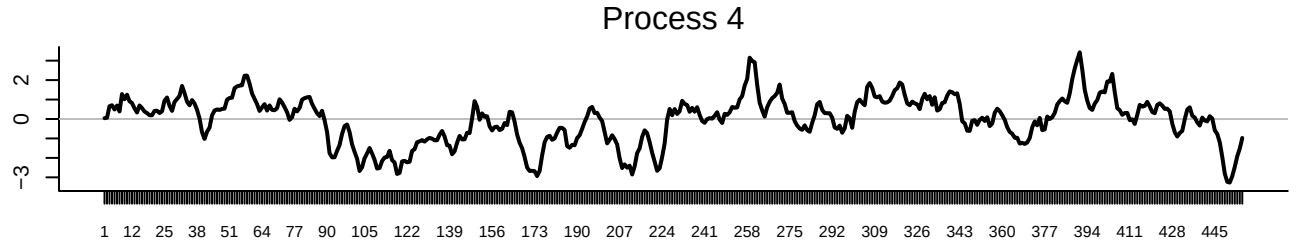
Process 4
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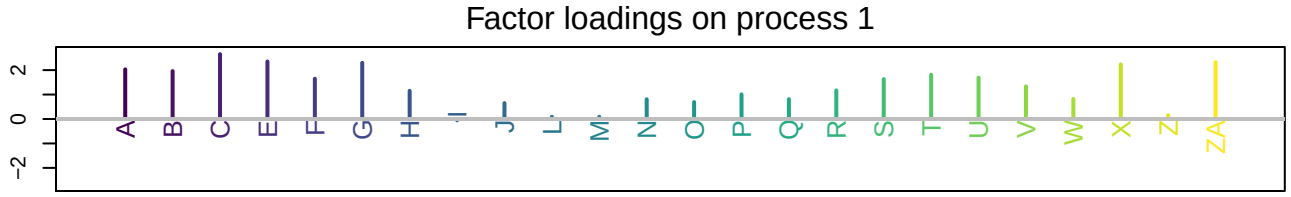
Factor loadings on process 1
2
0
−2
A
B
C
E
F
G
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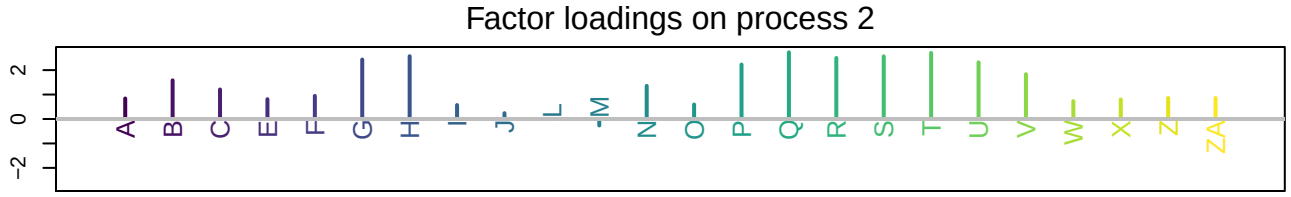
I
J
L
M
N
O
P
Q
R
S
T
U
V
W
X
Z
ZA


Factor loadings on process 2
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0
−2
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B
C
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O
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S
T
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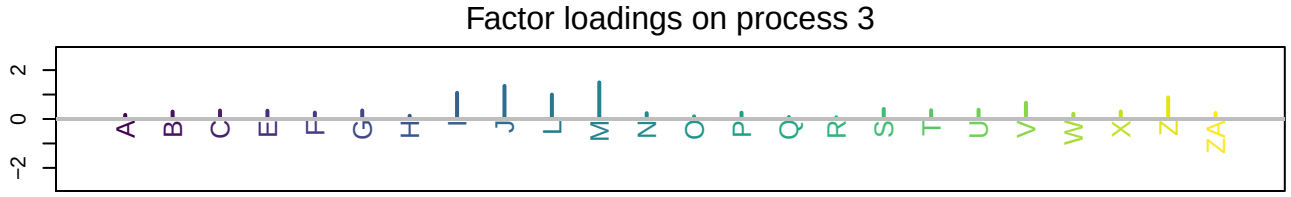
W
X
Z
ZA


Factor loadings on process 3
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0
−2
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B
C
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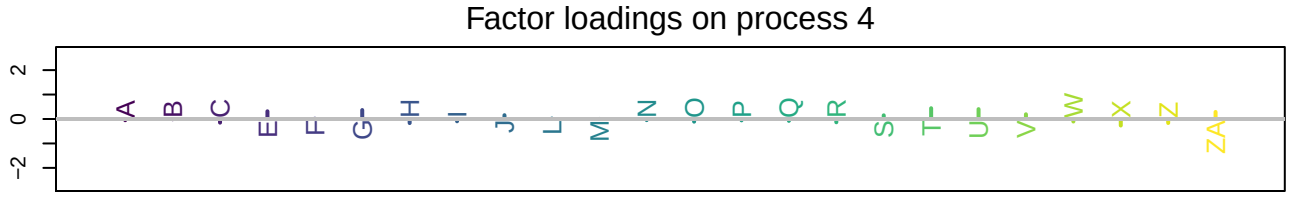
S
T
U
V
W
X
Z
ZA


Factor loadings on process 4
2
0
−2
A
B
C
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O
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R
S
T
U
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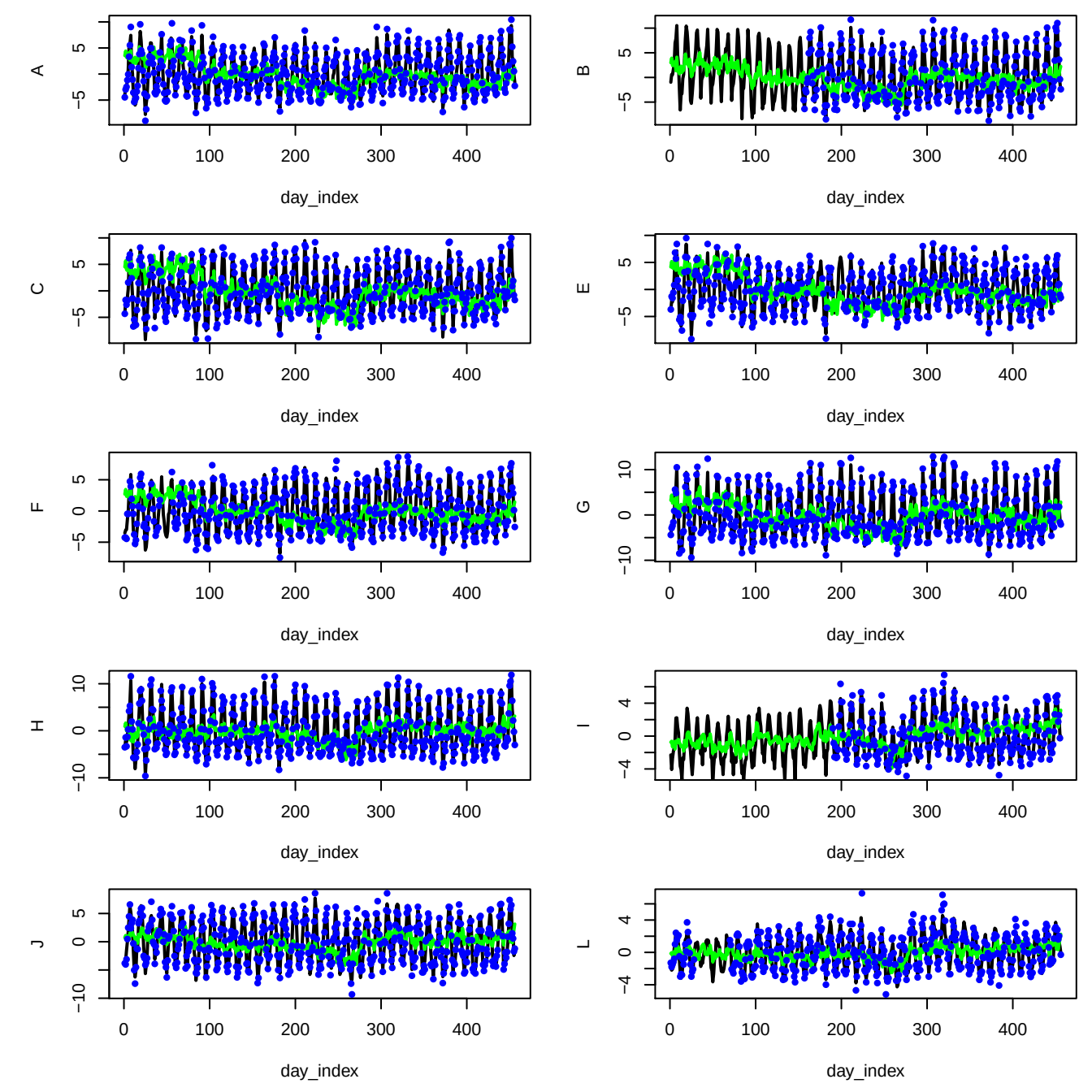
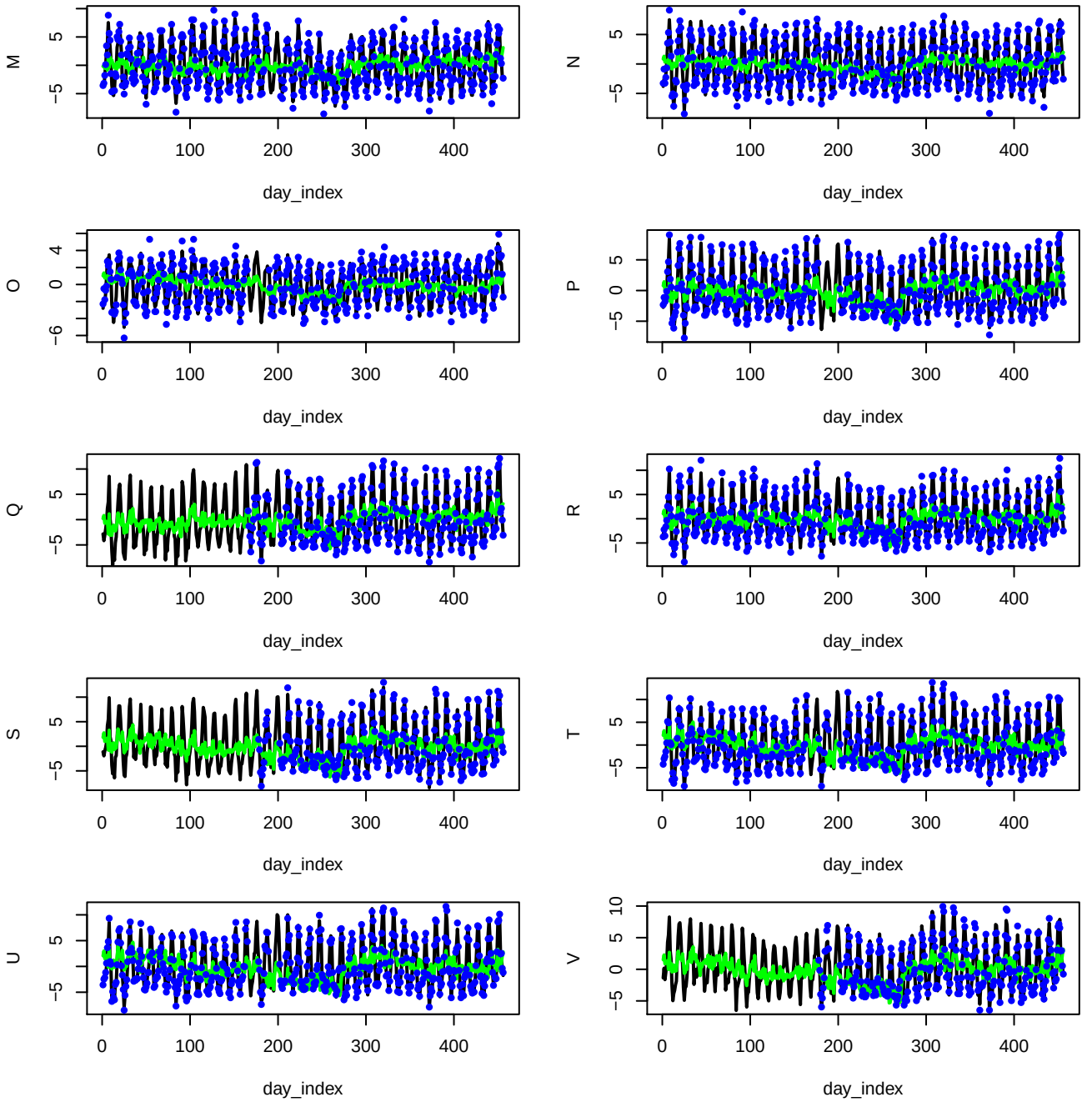
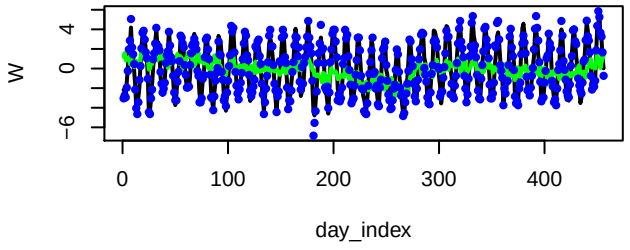
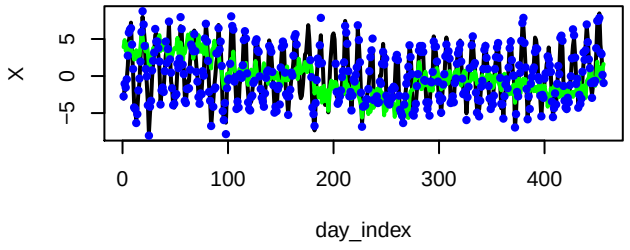
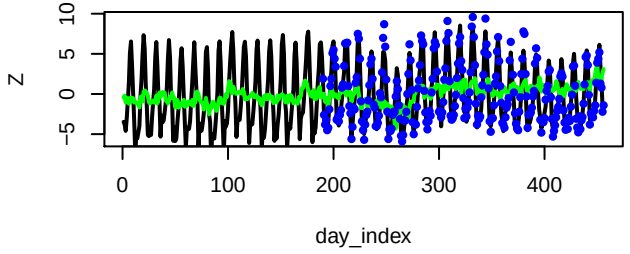
W
X
Z
ZA

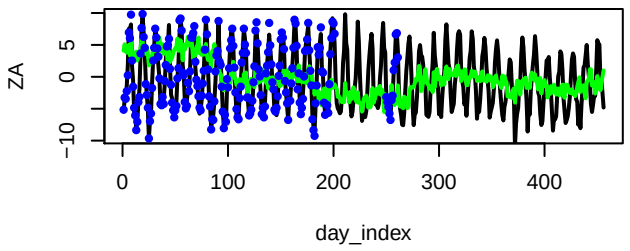

A
B
C
E
F
G
H
I
J
L
day_index
0
100
200
300
400
−5
0
5
−10
10
−4
4

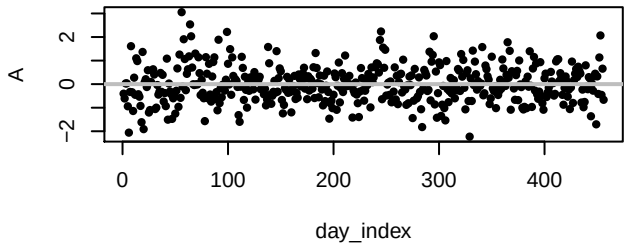

M
N
O
P
Q
R
S
T
U
V
day_index
0
100
200
300
400

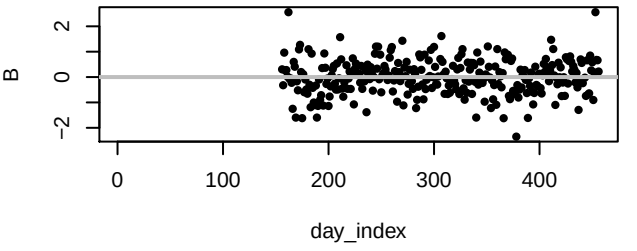

W
4
0
−6
0
100
200
300
400
day_index


X
5
0
−5
0
100
200
300
400
day_index


Z
10
5
0
−5
0
100
200
300
400
day_index


ZA
5
0
−10
0
100
200
300
400
day_index


A
day_index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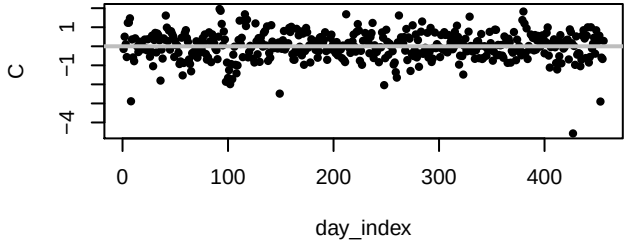
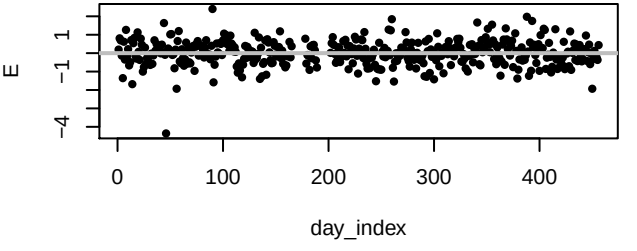
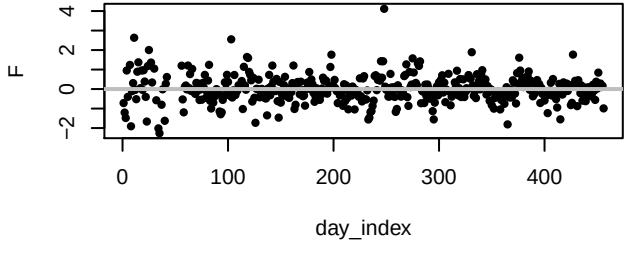
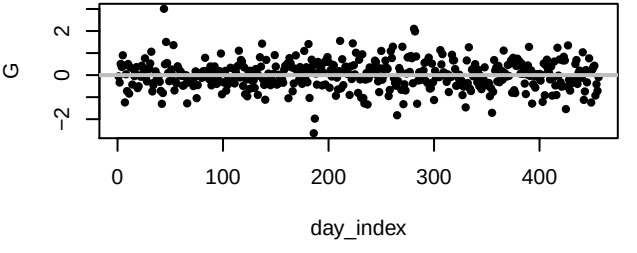
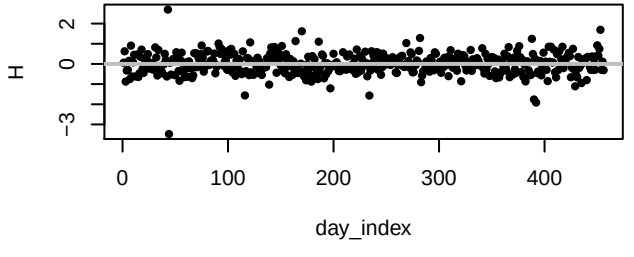
day_index

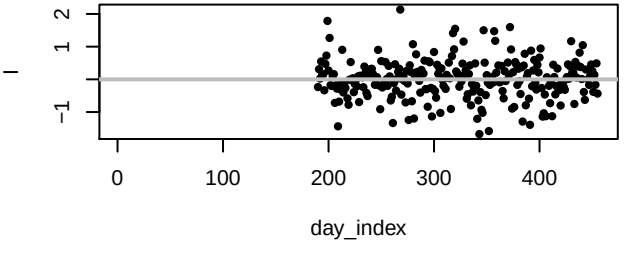

C
day_index

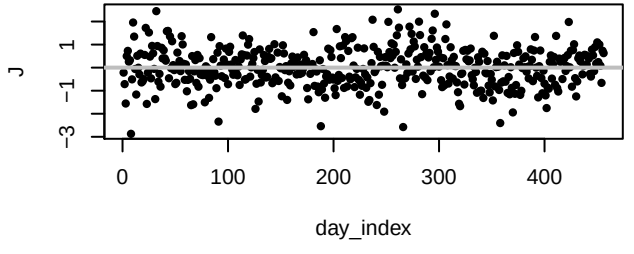

E
day_index

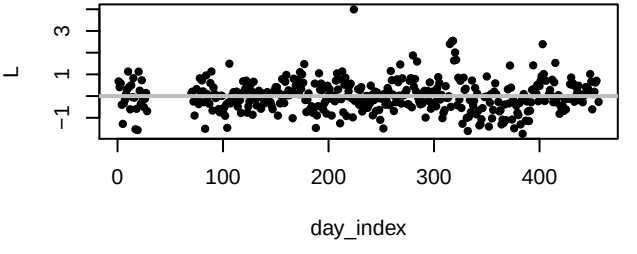

F
day_index

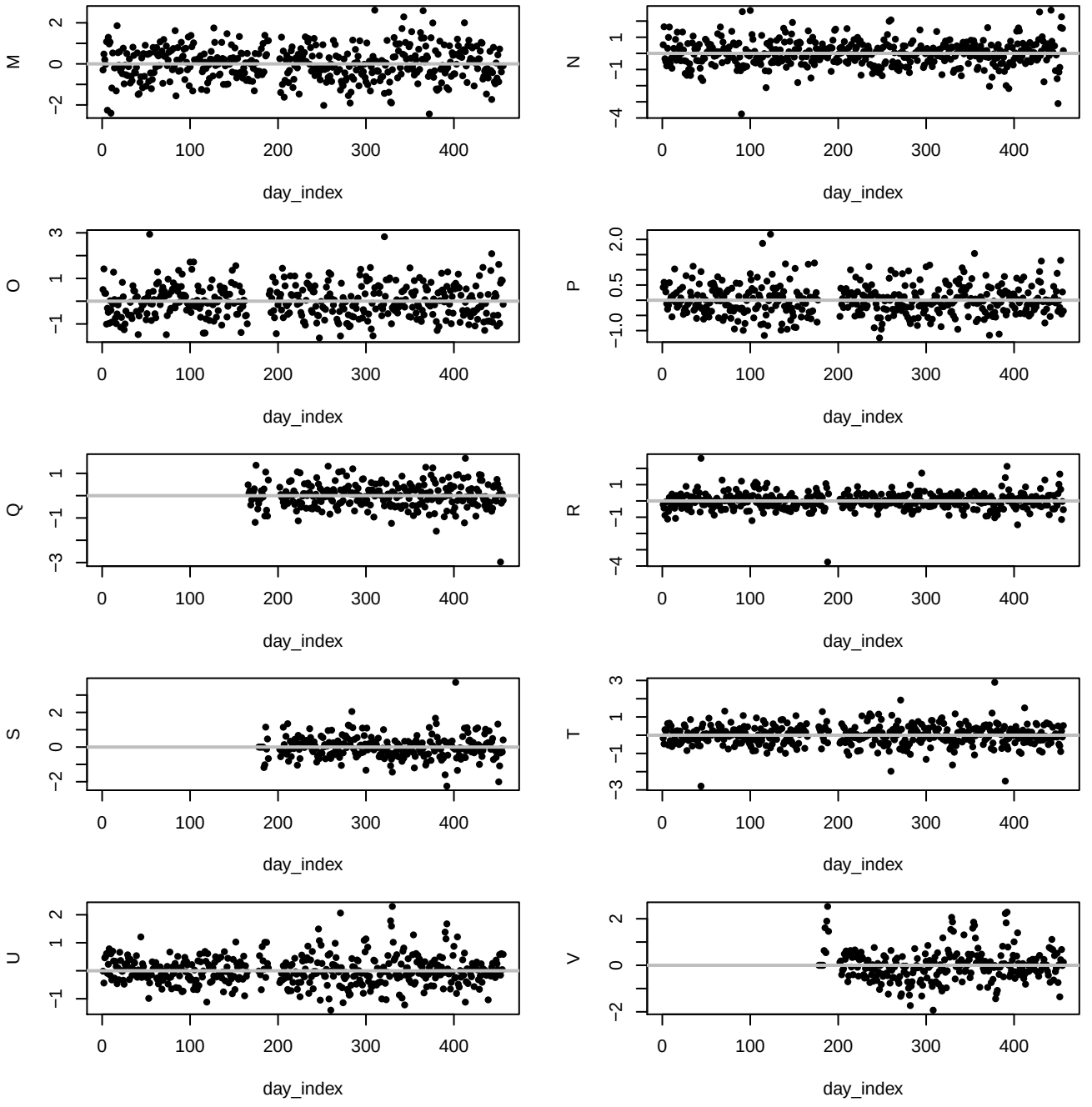

G
day_index

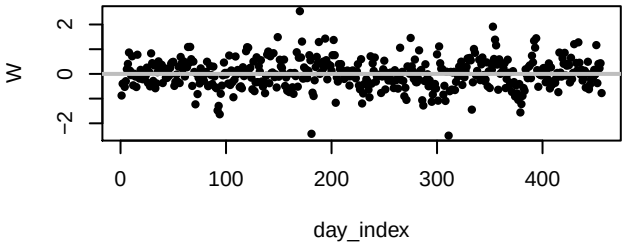

H
day_index

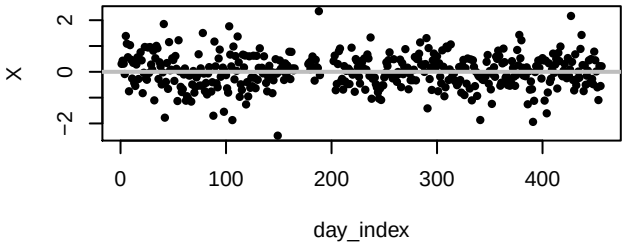

I
day_index

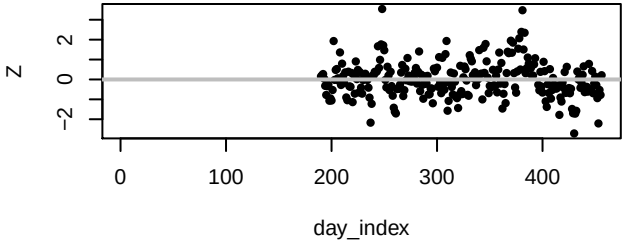

J
day_index

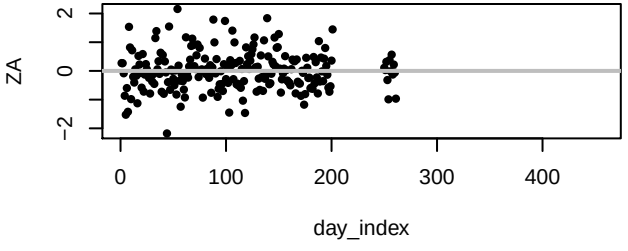

L
day_index

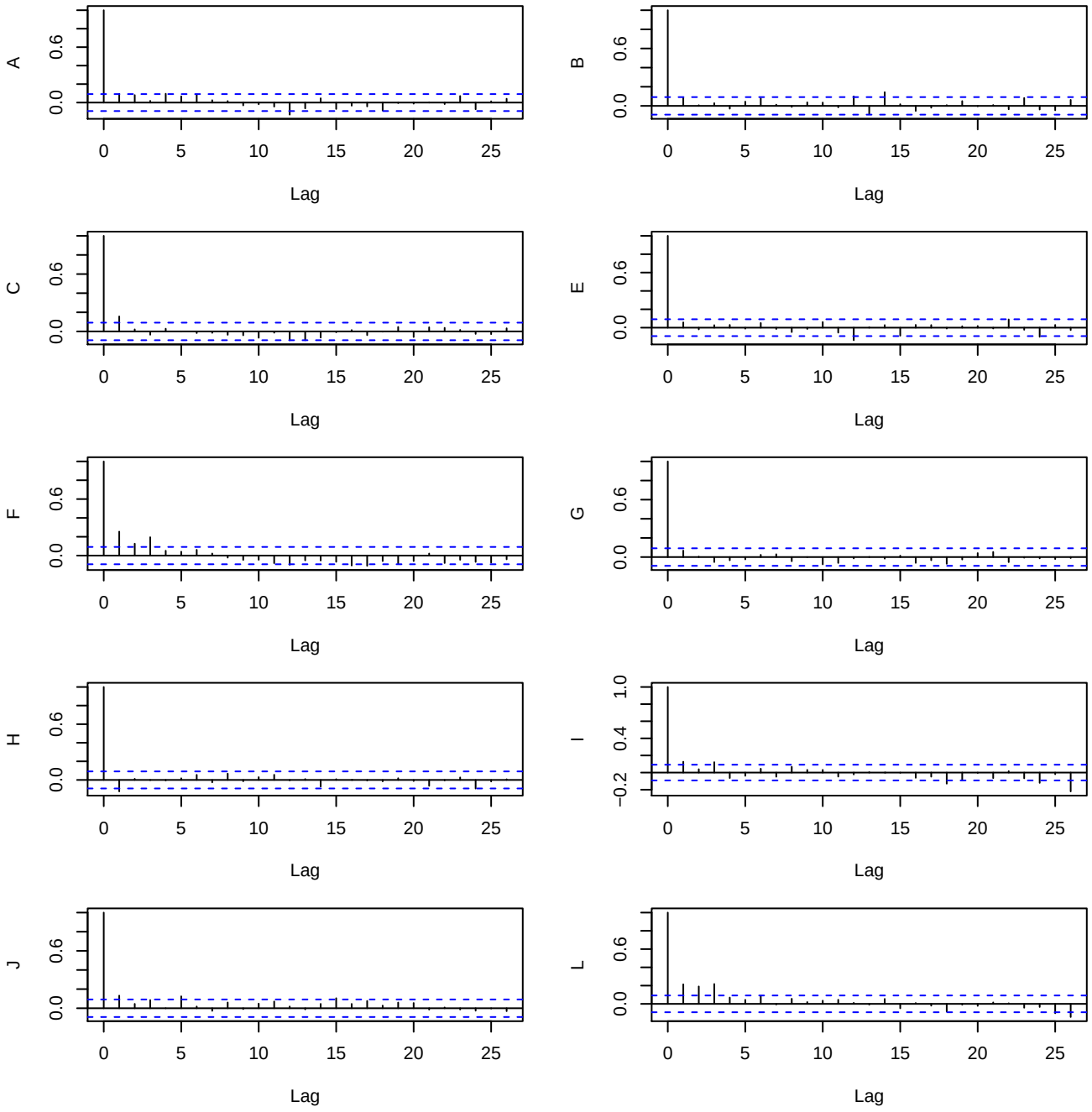

M
N
O
P
Q
R
S
T
U
V
day_index

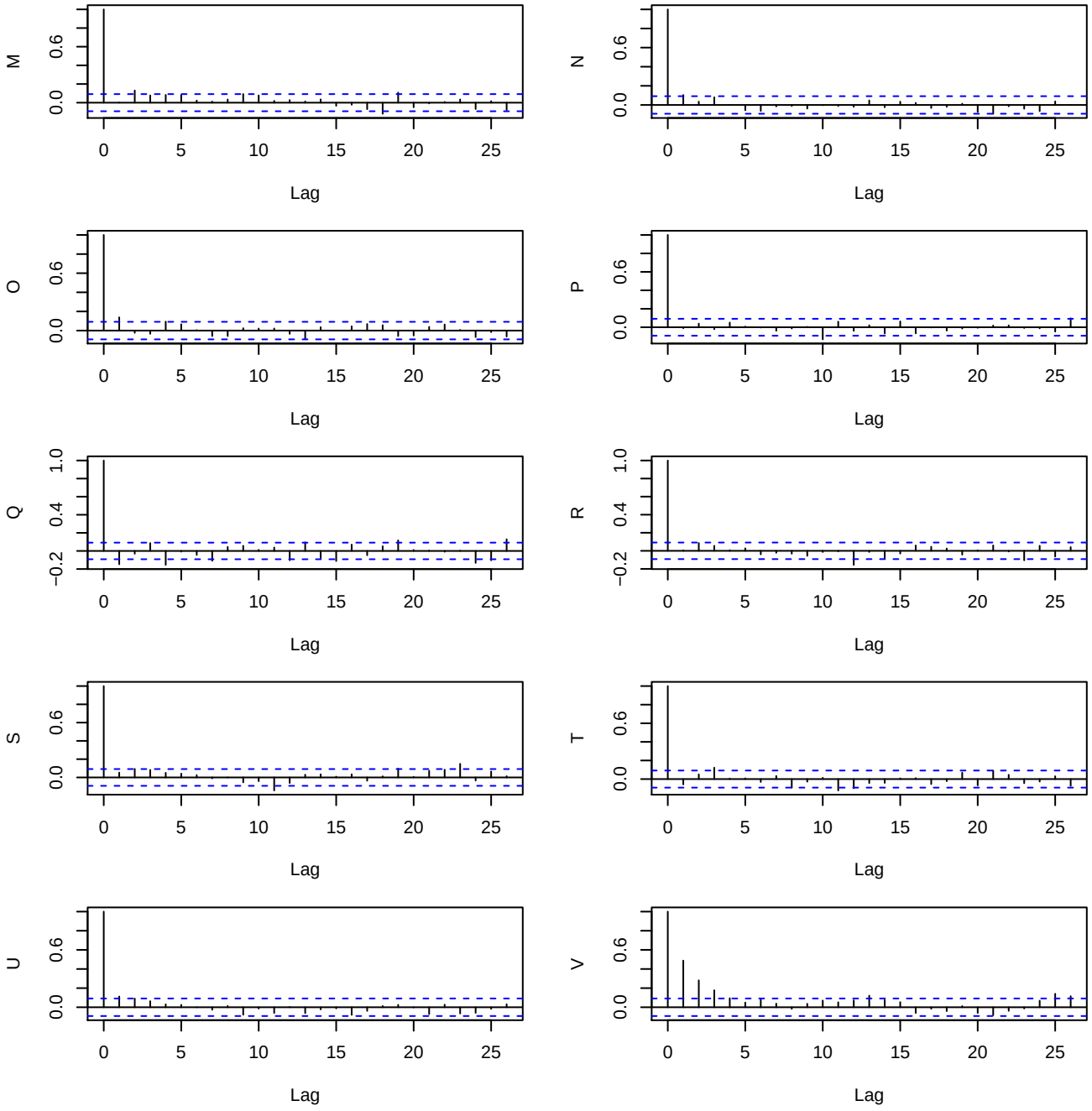

W
2
0
−2
0
100
200
300
400
day_index

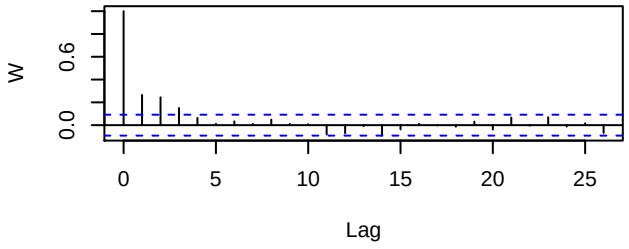

X
2
0
−2
0
100
200
300
400
day_index

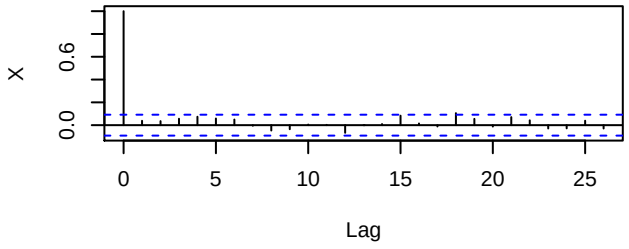

Z
2
0
−2
0
100
200
300
400
day_index

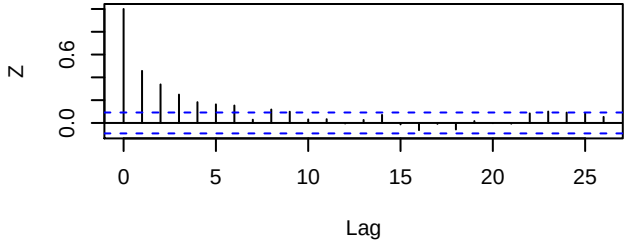

ZA
2
0
−2
0
100
200
300
400
day_index

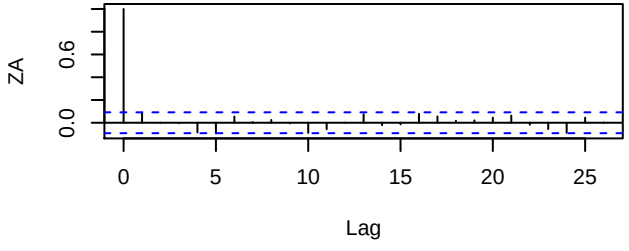

A
B
C
E
F
G
H
I
J
L
ACF
Lag
0.0
0.6
−0.2
0.4
1.0
0
5
10
15
20
25

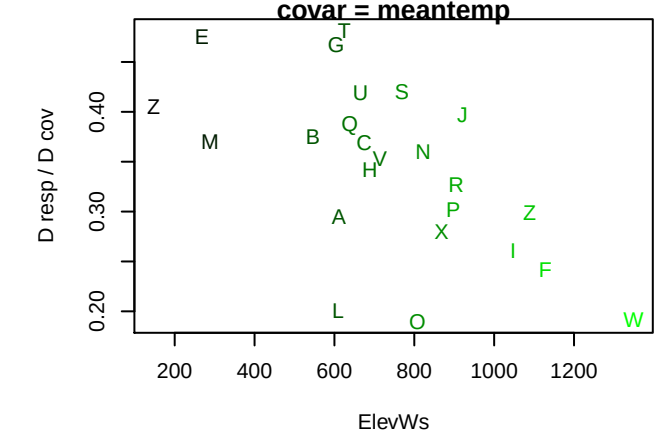

M
N
O
P
Q
R
S
T
U
V
0.0
0.6
1.0
0.4
−0.2
0
5
10
15
20
25
Lag

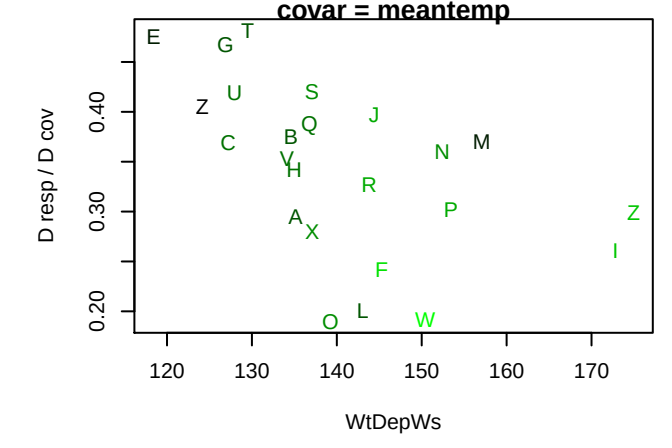

W
0.0
0.6
0
5
10
15
20
25
Lag

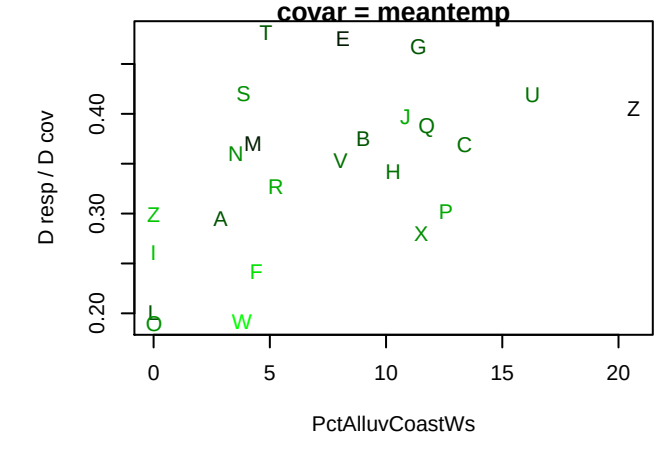

X
0.0
0.6
0
5
10
15
20
25
Lag

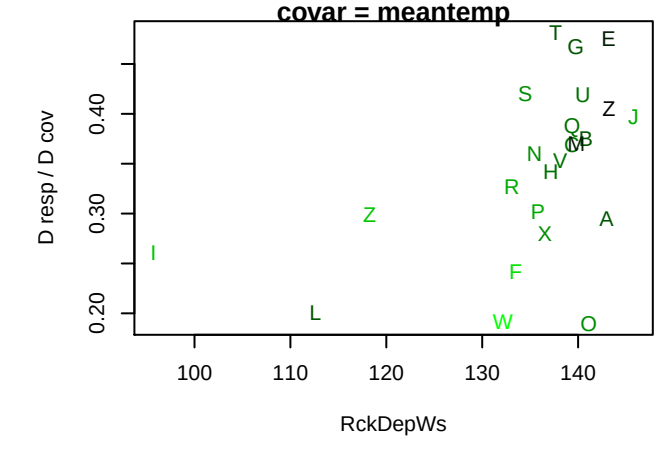

Z
0.0
0.6
0
5
10
15
20
25
Lag

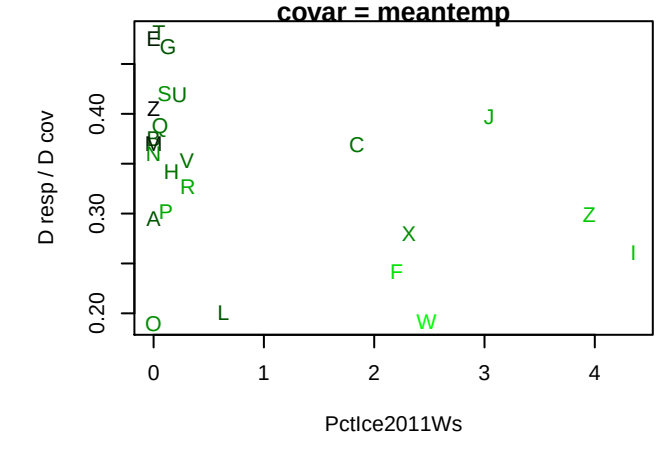

ZA
0.0
0.6
0
5
10
15
20
25
Lag

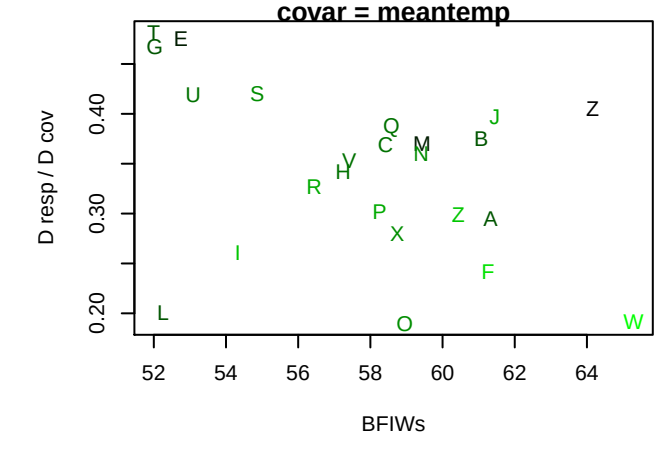

covar = meantemp
D resp / D cov
0.20
0.30
0.40
200
400
600
800
1000
1200
ElevWs

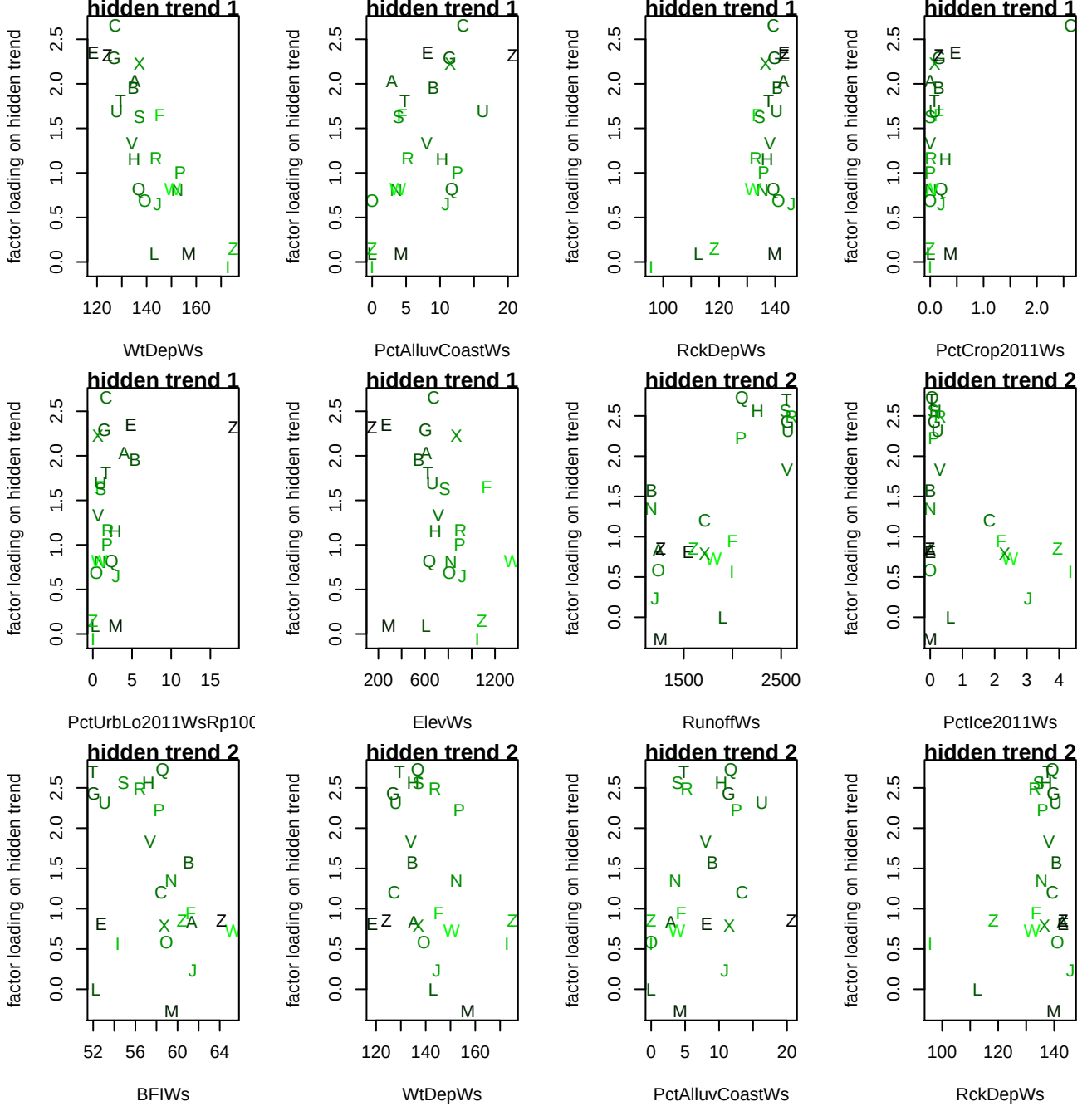

covar = meantemp
D resp / D cov
0.20
0.30
0.40
120
130
140
150
160
170
WtDepWs

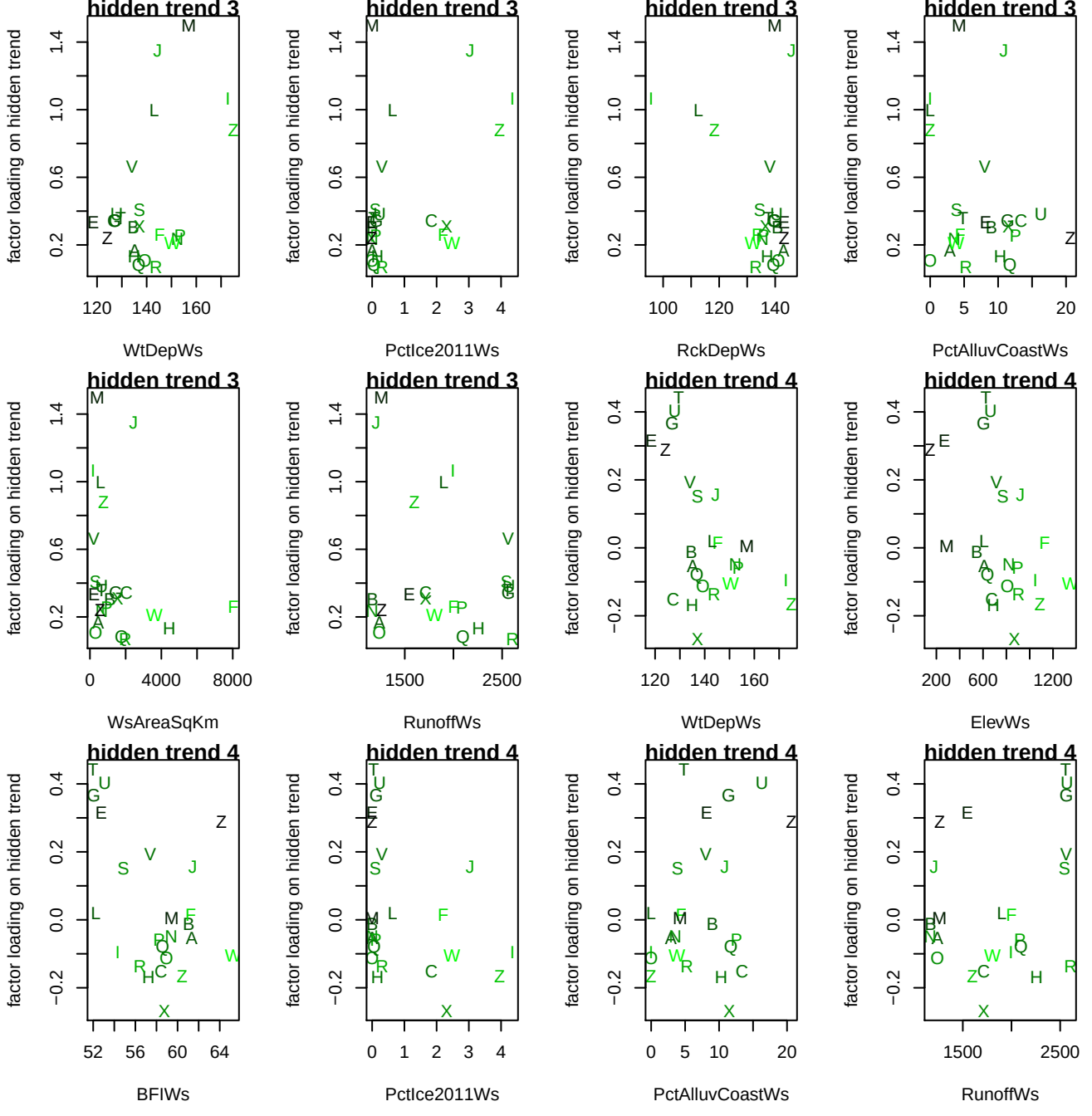

covar = meantemp
D resp / D cov
0.20
0.30
0.40
0
5
10
15
20
PctAlluvCoastWs


covar = meantemp
D resp / D cov
0.20
0.30
0.40
100
110
120
130
140
RckDepWs


covar = meantemp
D resp / D cov
0.20
0.30
0.40
0
1
2
3
4
PctIce2011Ws


covar = meantemp
D resp / D cov
0.20
0.30
0.40
52
54
56
58
60
62
64
BFIWs


hidden trend 1
factor loading on hidden trend
WtDepWs
hidden trend 1
factor loading on hidden trend
PctAlluvCoastWs
hidden trend 1
factor loading on hidden trend
RckDepWs
hidden trend 1
factor loading on hidden trend
PctCrop2011Ws
hidden trend 1
factor loading on hidden trend
PctUrbLo2011WsRp100
hidden trend 1
factor loading on hidden trend
ElevWs
hidden trend 2
factor loading on hidden trend
RunoffWs
hidden trend 2
factor loading on hidden trend
PctIce2011Ws
hidden trend 2
factor loading on hidden trend
BFIWs
hidden trend 2
factor loading on hidden trend
WtDepWs
hidden trend 2
factor loading on hidden trend
PctAlluvCoastWs
hidden trend 2
factor loading on hidden trend
RckDepWs


hidden trend 3
factor loading on hidden trend
WtDepWs
hidden trend 3
factor loading on hidden trend
PctIce2011Ws
hidden trend 3
factor loading on hidden trend
RckDepWs
hidden trend 3
factor loading on hidden trend
PctAlluvCoastWs
hidden trend 3
factor loading on hidden trend
WsAreaSqKm
hidden trend 3
factor loading on hidden trend
RunoffWs
hidden trend 4
factor loading on hidden trend
WtDepWs
hidden trend 4
factor loading on hidden trend
ElevWs
hidden trend 4
factor loading on hidden trend
BFIWs
hidden trend 4
factor loading on hidden trend
PctIce2011Ws
hidden trend 4
factor loading on hidden trend
PctAlluvCoastWs
hidden trend 4
factor loading on hidden trend
RunoffWs