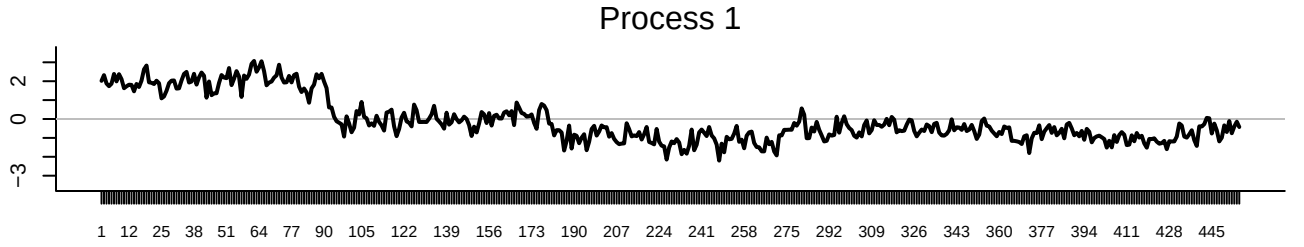
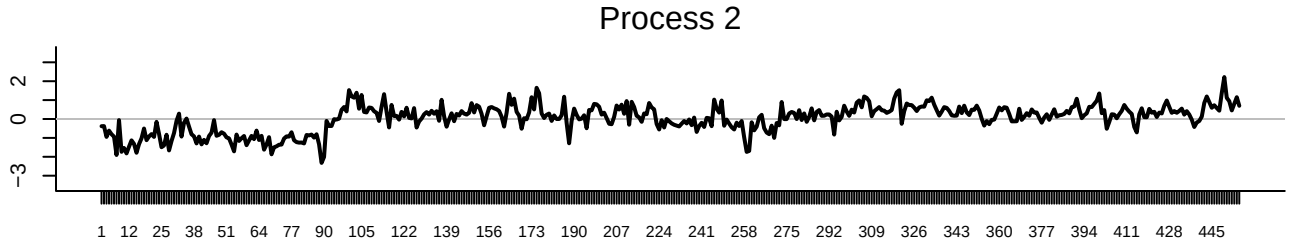

Process 1
−3
0
2
1 12 25 38 51 64 77 90 105 122 139 156 173 190 207 224 241 258 275 292 309 326 343 360 377 394 411 428 445


Process 2
−3
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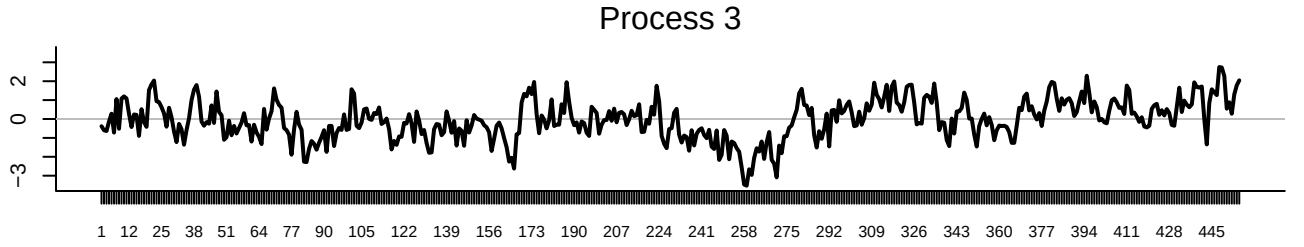
Process 3
−3
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2
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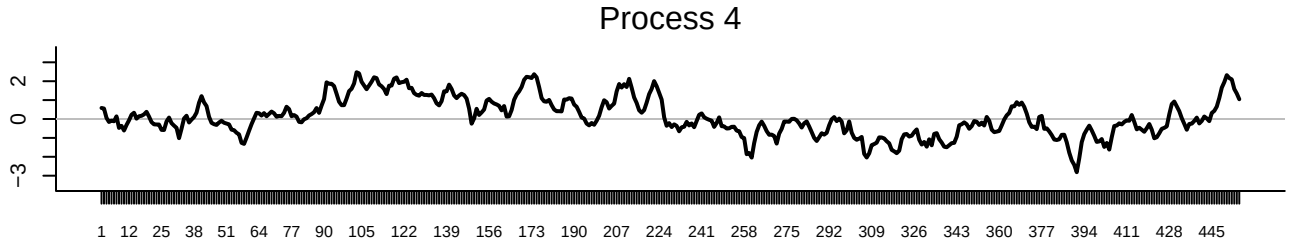
Process 4
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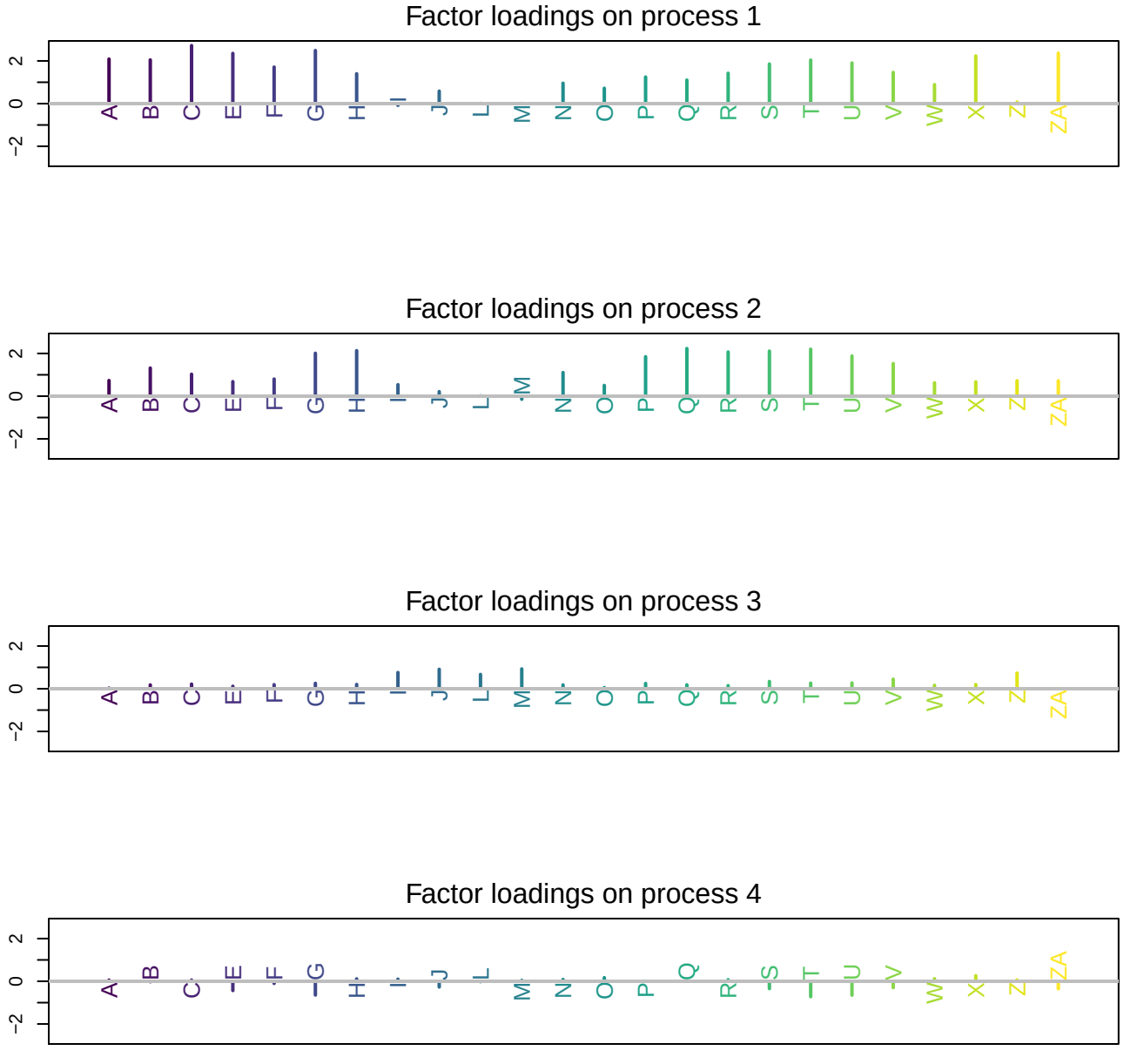
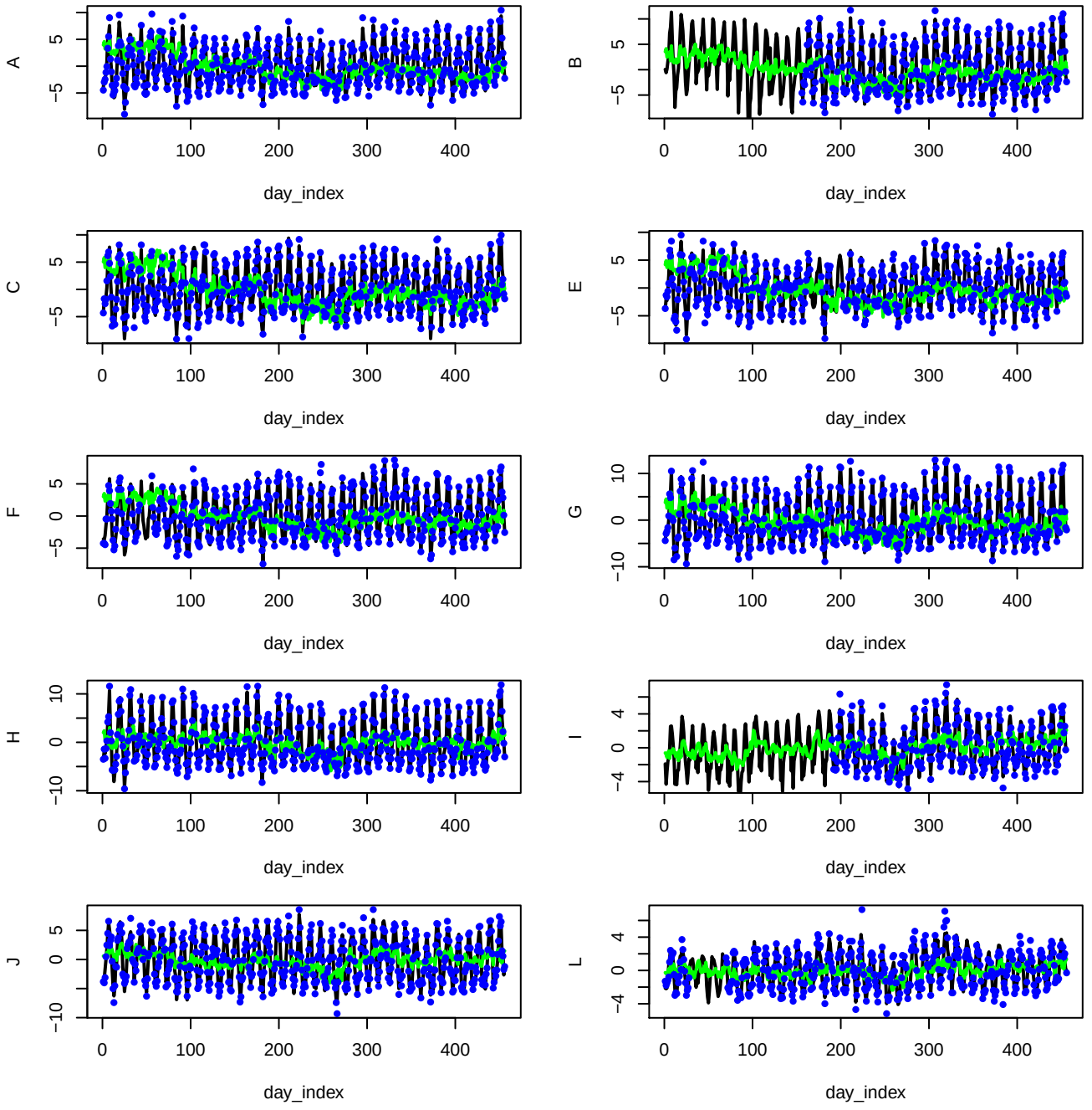

Factor loadings on process 1
Factor loadings on process 2
Factor loadings on process 3
Factor loadings on process 4
2
0
−2
A
B
C
E
F
G
H
I
J
L
M
N
O
P
Q
R
S
T
U
V
W
X
Z
ZA


A
B
C
E
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L
day_index
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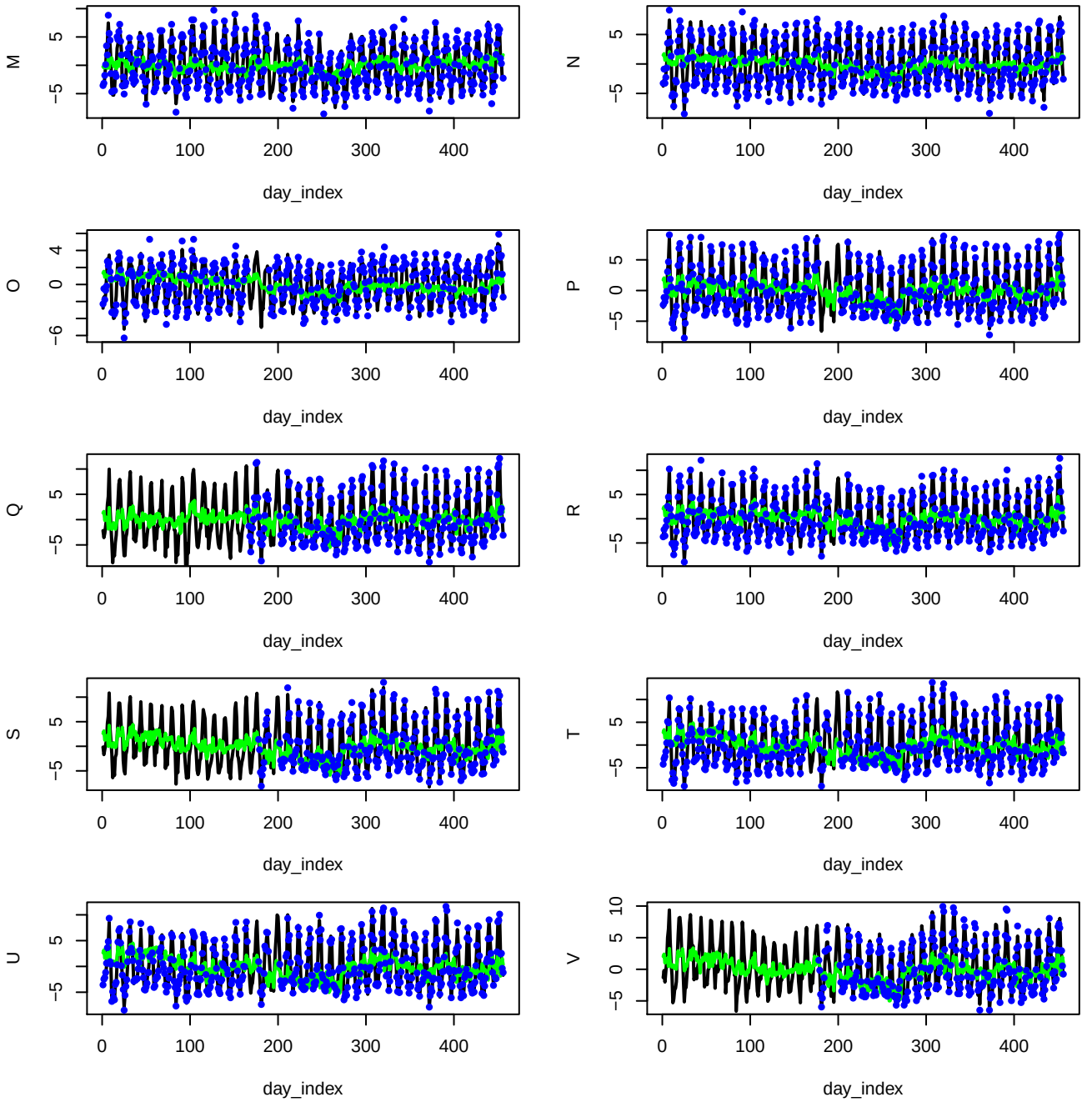
−10
10
−4
4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Q
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S
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U
V
day_index
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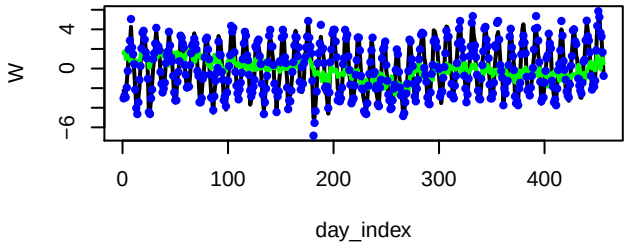
300
400


W
4
0
−6
0
100
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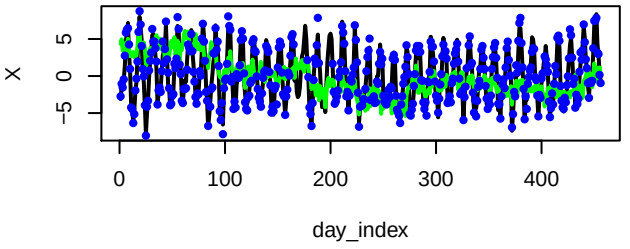
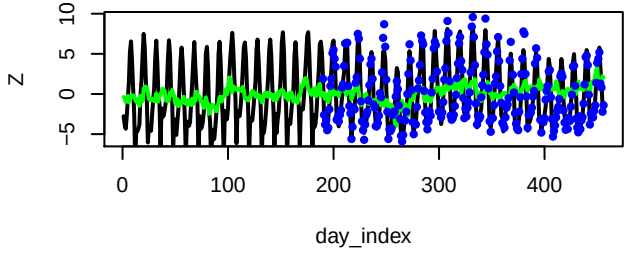
300
400
day_index


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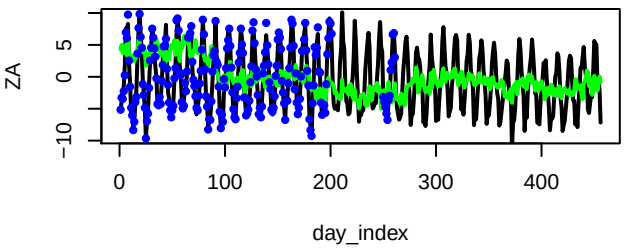
10
5
0
−5
0
100
200
300
400
day_index


ZA
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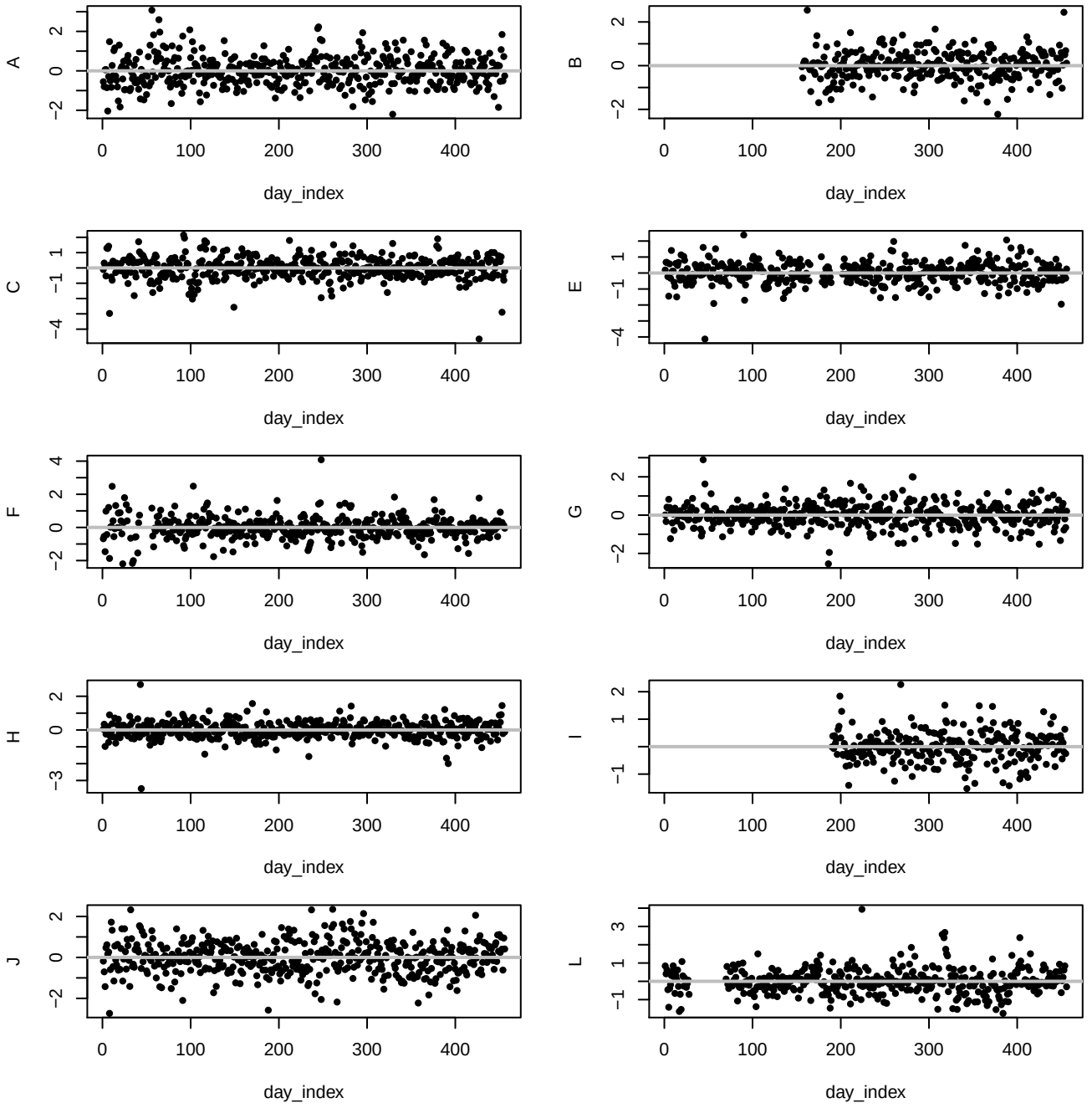
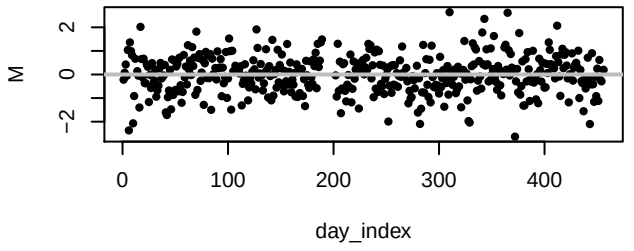
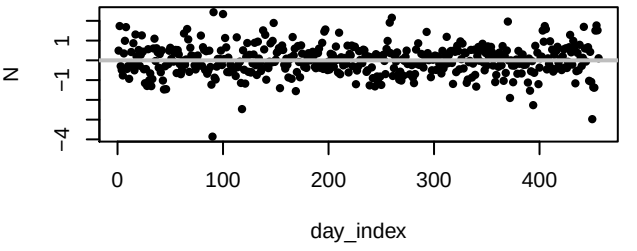
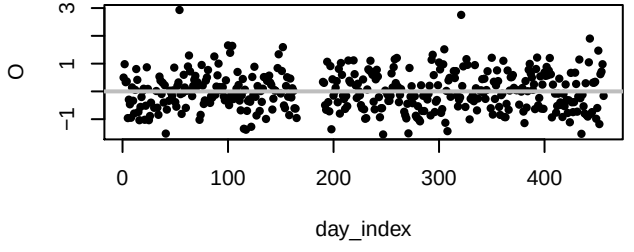
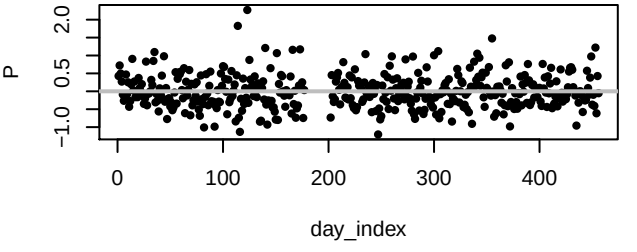
0
−10
0
100
200
300
400
day_index

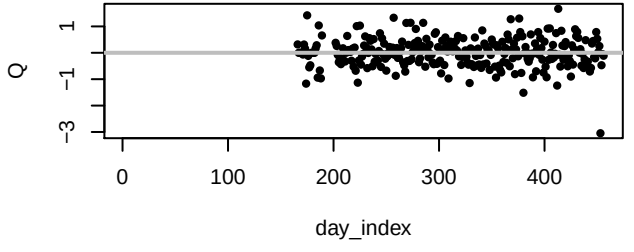

A
B
C
E
F
G
H
I
J
L
day_index
0
100
200
300
400

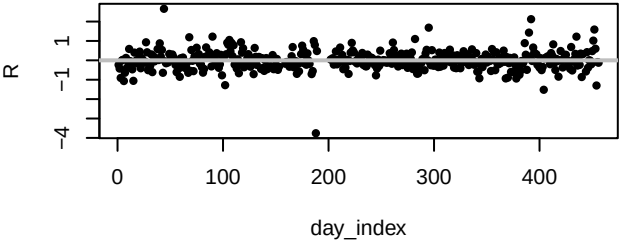

M
day_index

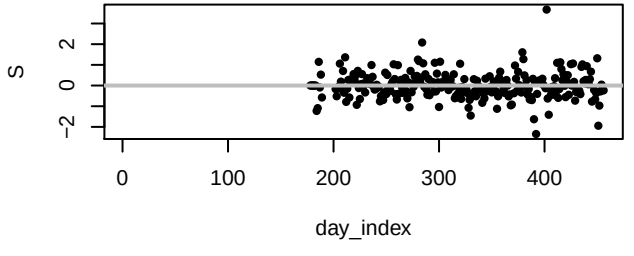

N
day_index


O
day_index


P
day_index


Q
day_index


R
day_index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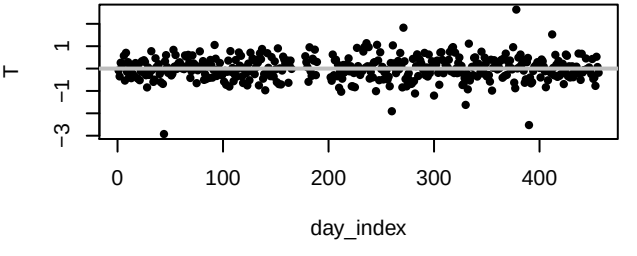
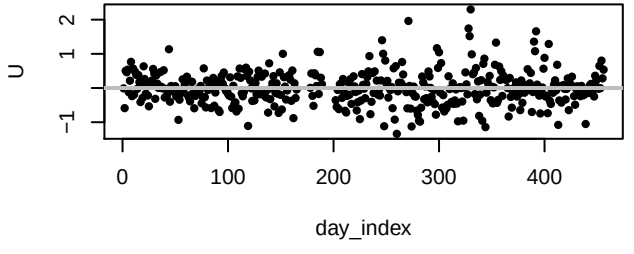
day_index


T
day_index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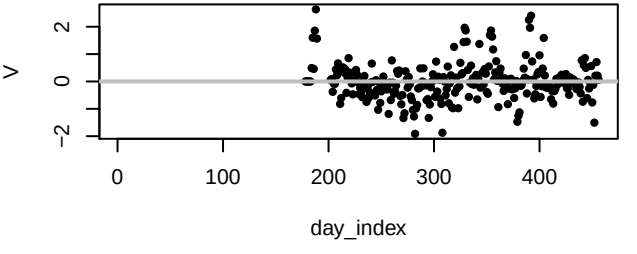
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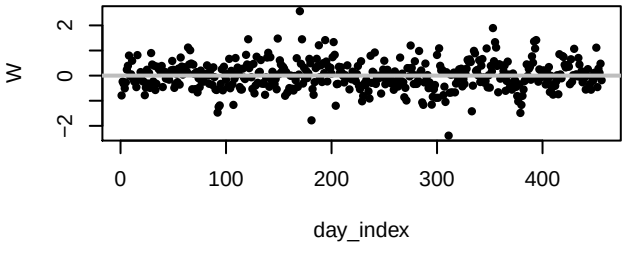
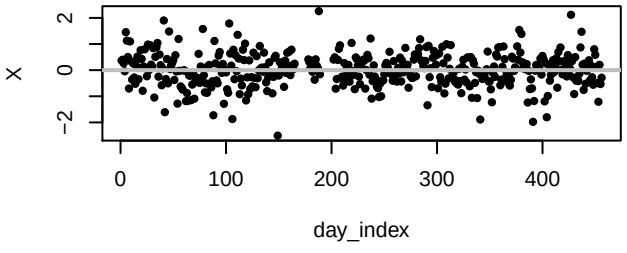
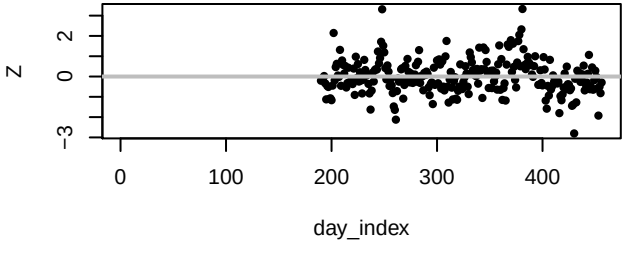
day_index


W
2
0
−2
0
100
200
300
400
day_index


X
2
0
−2
0
100
200
300
400
day_index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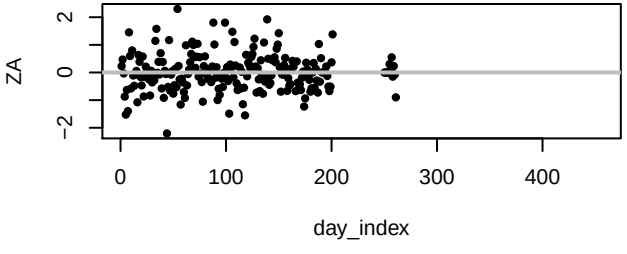
0
−3
0
100
200
300
400
day_index


ZA
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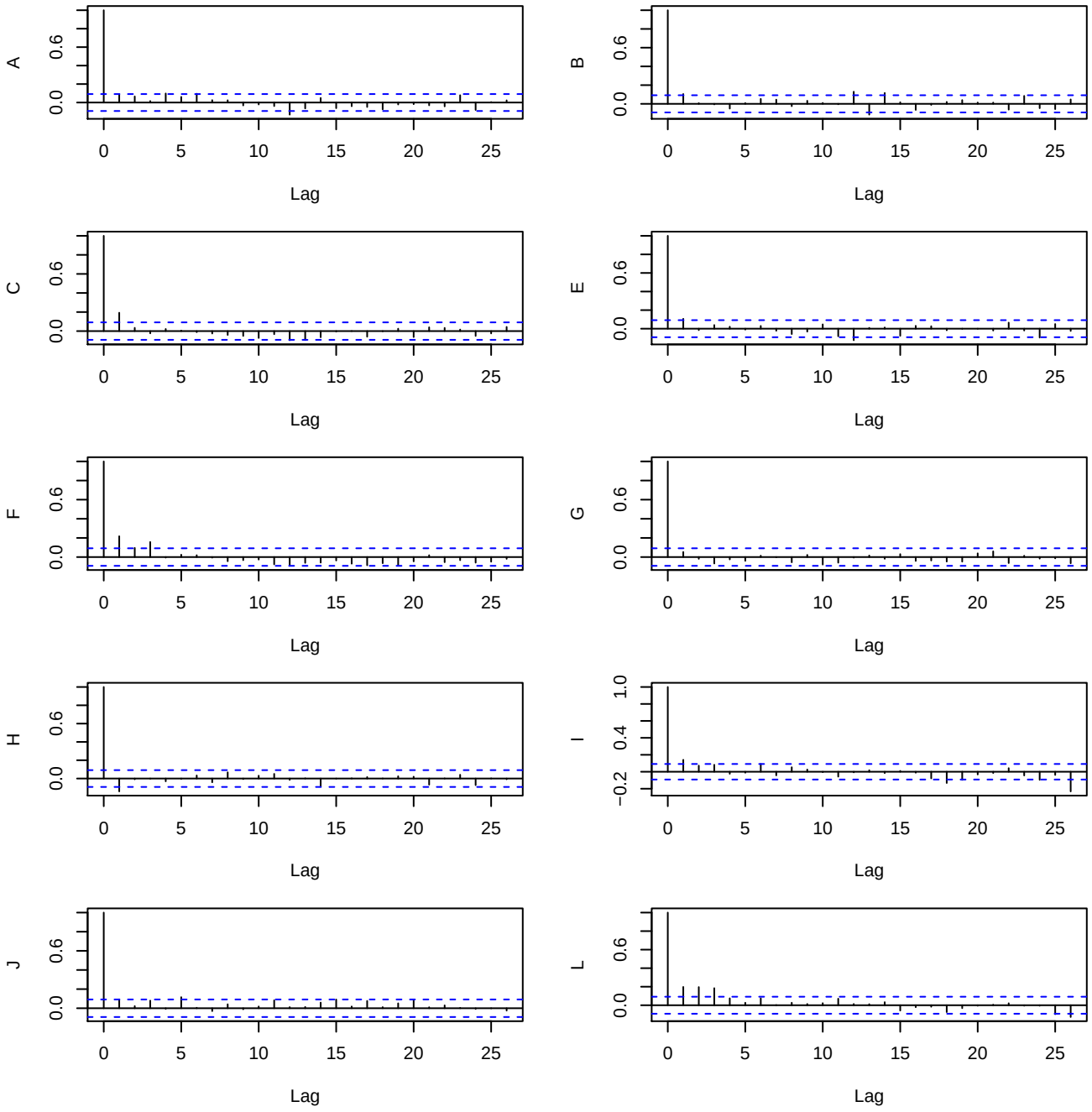
0
−2
0
100
200
300
400
day_index


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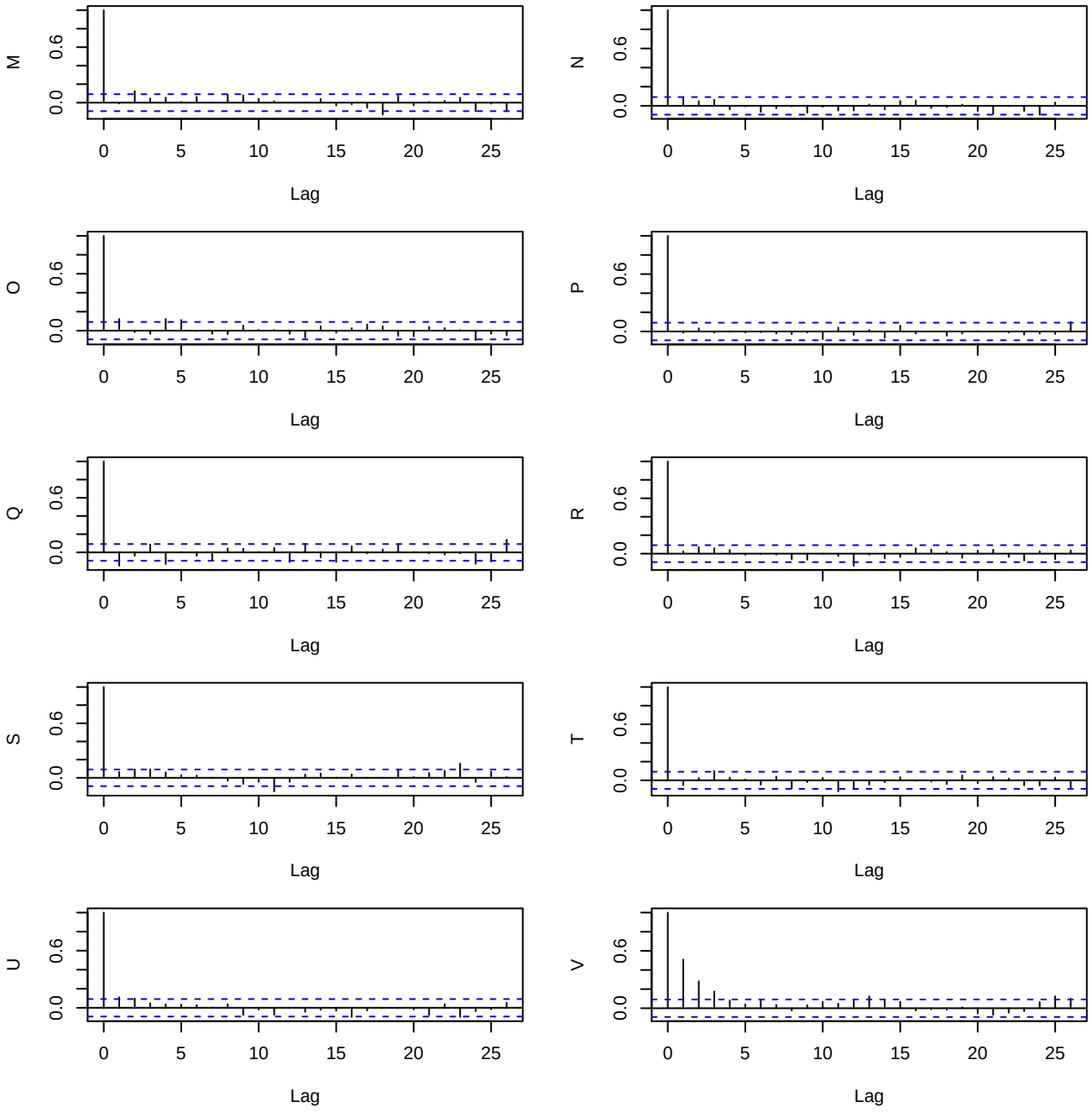
0.6
−0.2
0.4
1.0
0
5
10
15
20
25
Lag


M
N
O
P
Q
R
S
T
U
V
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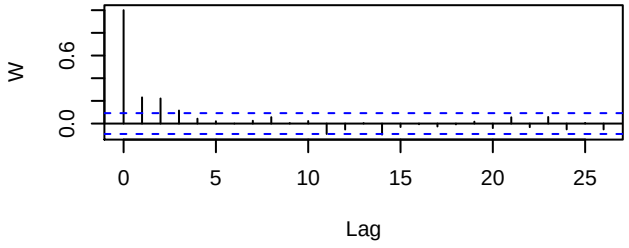
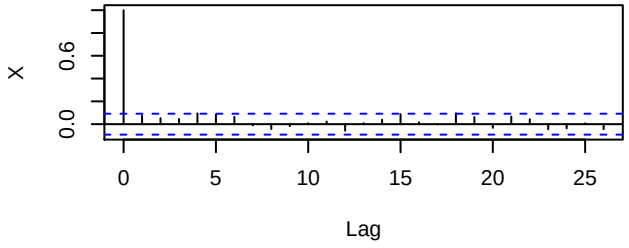
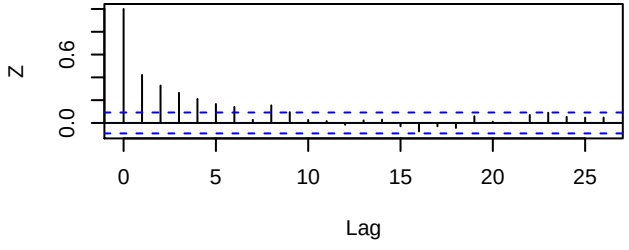
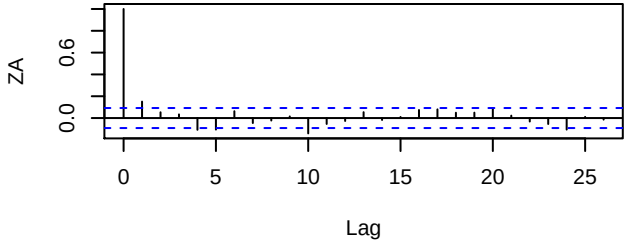
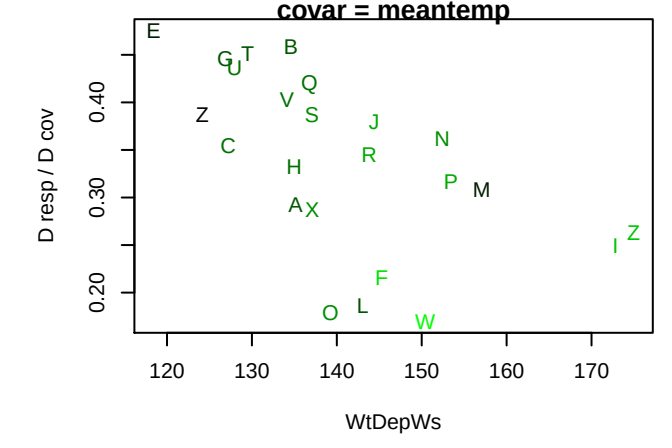
0.6
0
5
10
15
20
25
Lag

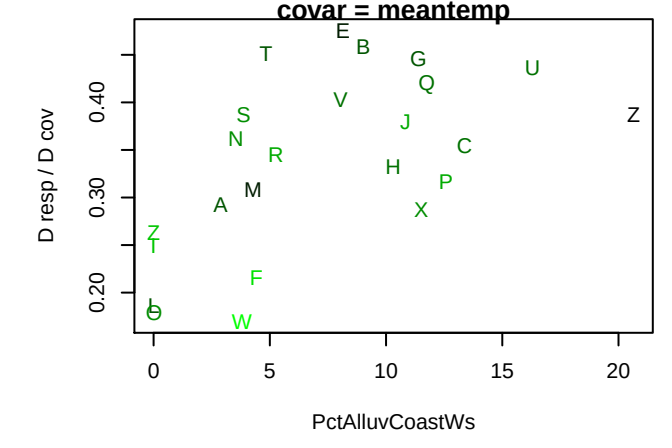

W
0.0
0.6
0
5
10
15
20
25
Lag

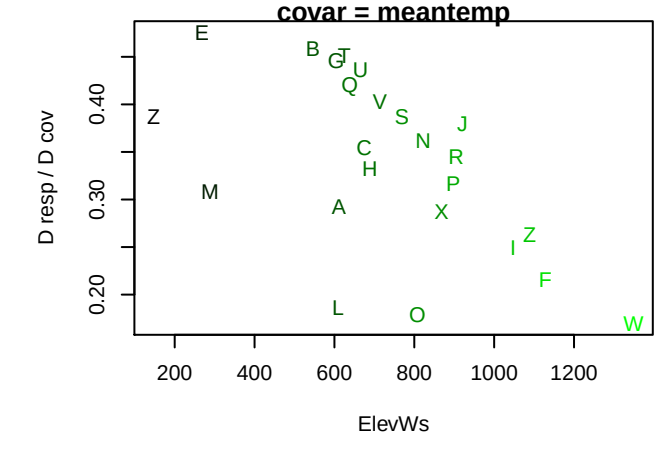

X
0.0
0.6
0
5
10
15
20
25
Lag

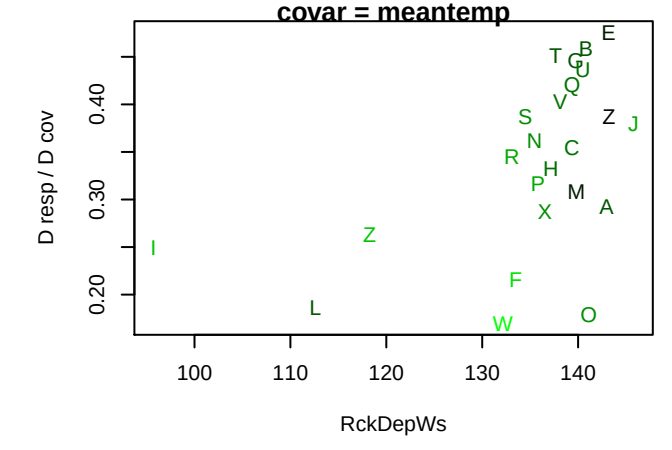

Z
0.0
0.6
0
5
10
15
20
25
Lag

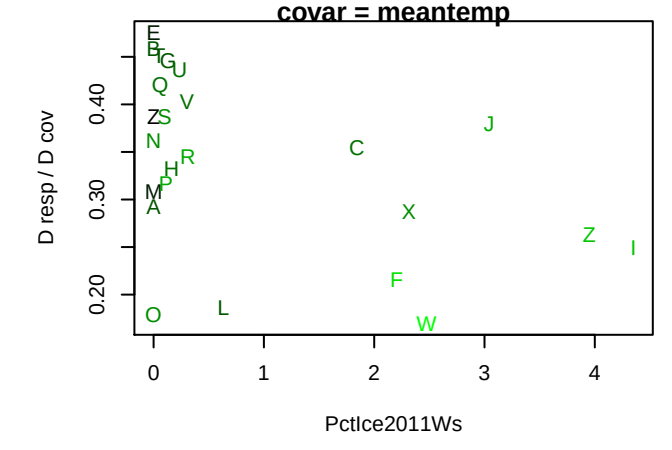

ZA
0.0
0.6
0
5
10
15
20
25
Lag

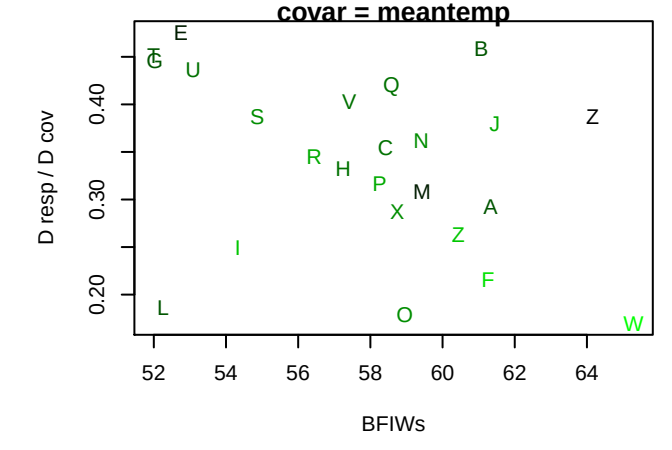

covar = meantemp
D resp / D cov
0.20
0.30
0.40
120
130
140
150
160
170
WtDepWs

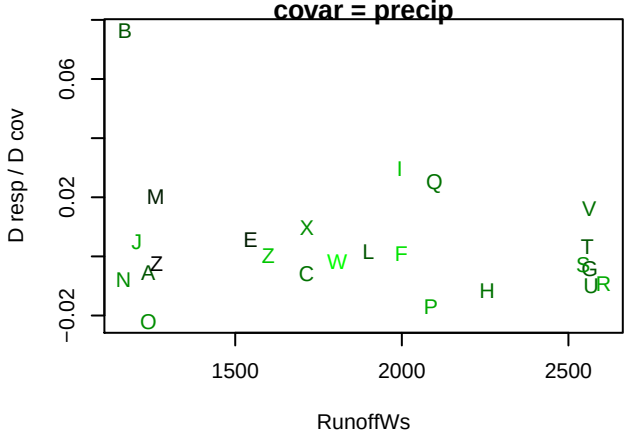

covar = meantemp
D resp / D cov
0.20
0.30
0.40
0
5
10
15
20
PctAlluvCoastWs

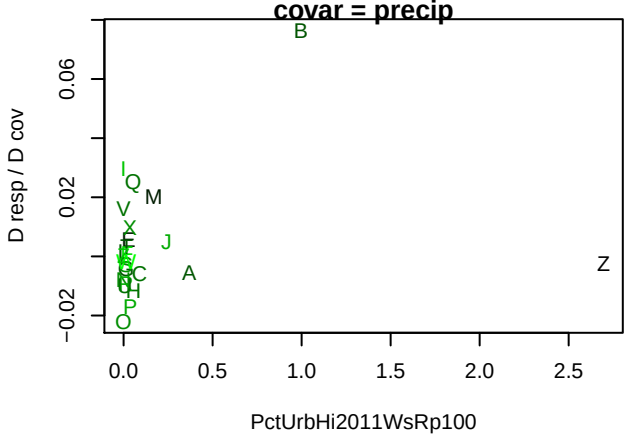

covar = meantemp
D resp / D cov
0.20
0.30
0.40
200
400
600
800
1000
1200
ElevWs

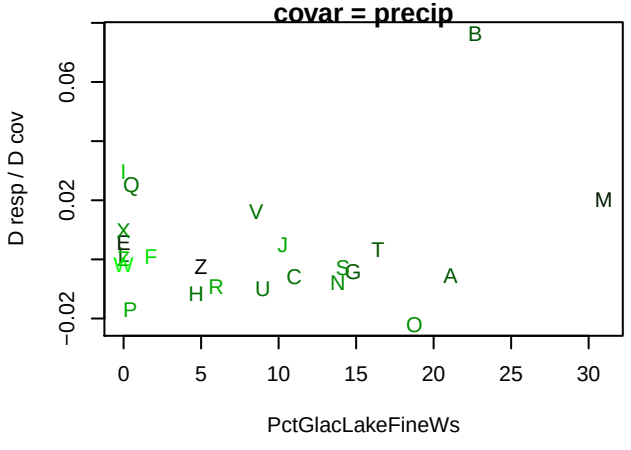

covar = meantemp
D resp / D cov
0.20
0.30
0.40
100
110
120
130
140
RckDepWs

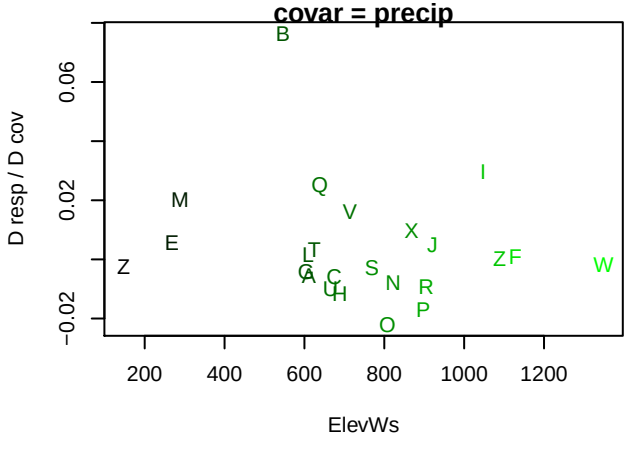

covar = meantemp
D resp / D cov
0.20
0.30
0.40
0
1
2
3
4
PctIce2011Ws

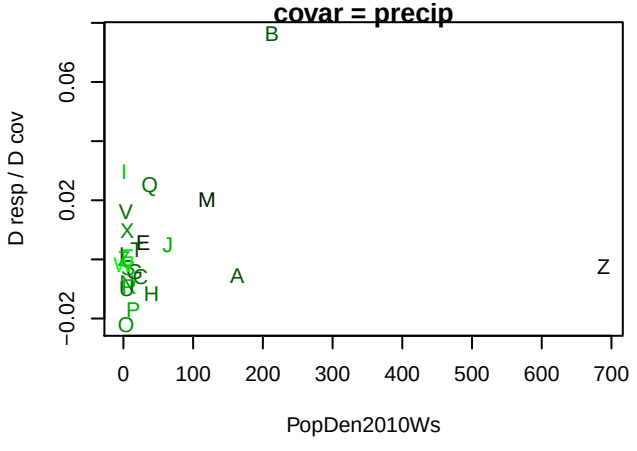

covar = meantemp
D resp / D cov
0.20
0.30
0.40
52
54
56
58
60
62
64
BFIWs

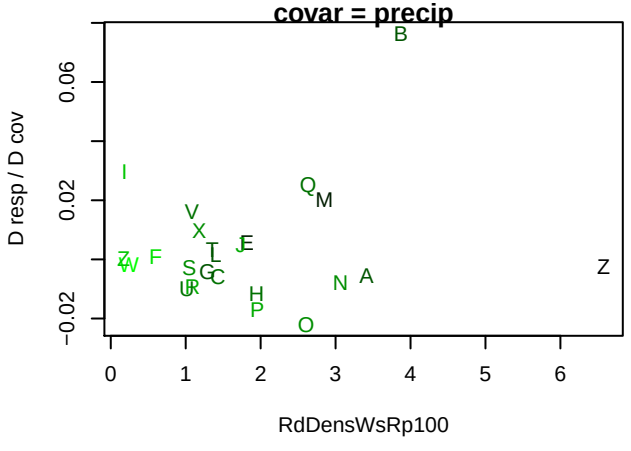

covar = precip
D resp / D cov
RunoffWs
0.06
0.02
−0.02
1500
2000
2500

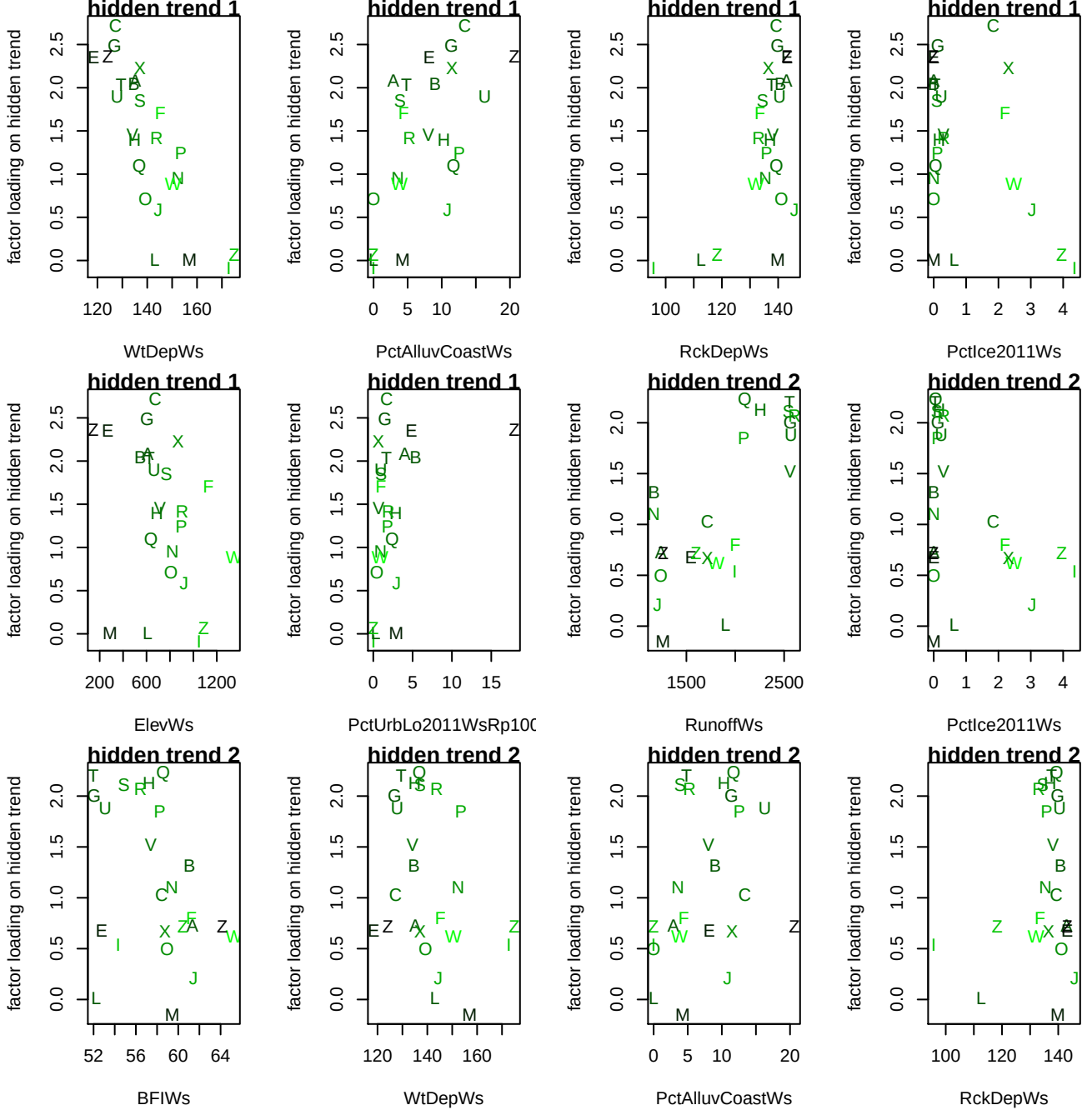

covar = precip
D resp / D cov
PctUrbHi2011WsRp100
0.06
0.02
−0.02
0.0
0.5
1.0
1.5
2.0
2.5

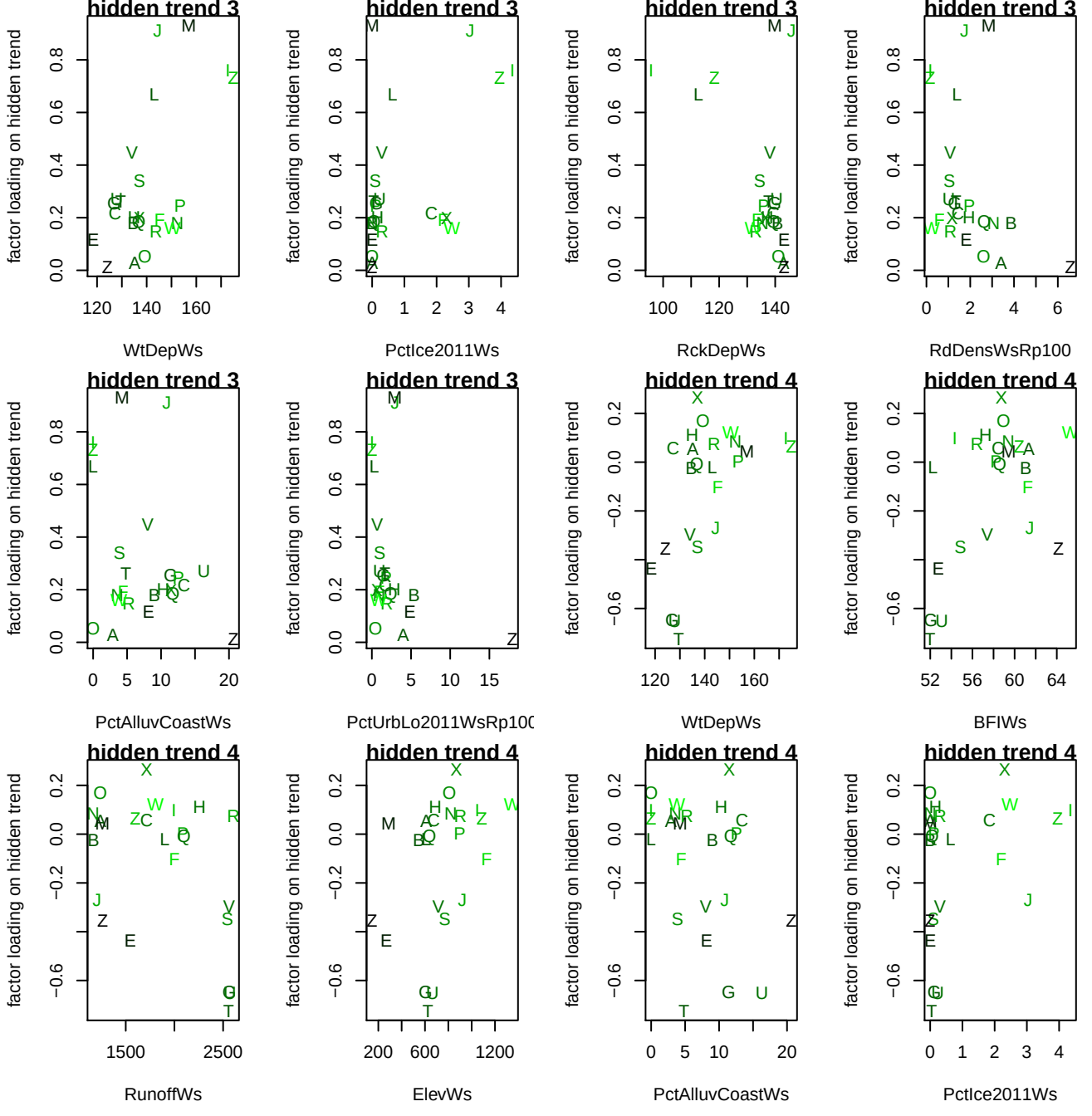

covar = precip
D resp / D cov
PctGlacLakeFineWs
0.06
0.02
−0.02
0
5
10
15
20
25
30


covar = precip
D resp / D cov
ElevWs
0.06
0.02
−0.02
200
400
600
800
1000
1200


covar = precip
D resp / D cov
PopDen2010Ws
0.06
0.02
−0.02
0
100
200
300
400
500
600
700


covar = precip
D resp / D cov
RdDensWsRp100
0.06
0.02
−0.02
0
1
2
3
4
5
6


hidden trend 1
factor loading on hidden trend
WtDepWs
hidden trend 1
PctAlluvCoastWs
hidden trend 1
RckDepWs
hidden trend 1
PctIce2011Ws
hidden trend 1
ElevWs
hidden trend 1
PctUrbLo2011WsRp100
hidden trend 2
RunoffWs
hidden trend 2
PctIce2011Ws
hidden trend 2
BFIWs
hidden trend 2
WtDepWs
hidden trend 2
PctAlluvCoastWs
hidden trend 2
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
RdDensWsRp100
hidden trend 3
factor loading on hidden trend
PctAlluvCoastWs
hidden trend 3
factor loading on hidden trend
PctUrbLo2011WsRp10
hidden trend 4
factor loading on hidden trend
WtDepWs
hidden trend 4
factor loading on hidden trend
BFIWs
hidden trend 4
factor loading on hidden trend
RunoffWs
hidden trend 4
factor loading on hidden trend
ElevWs
hidden trend 4
factor loading on hidden trend
PctAlluvCoastWs
hidden trend 4
factor loading on hidden trend
PctIce2011Ws