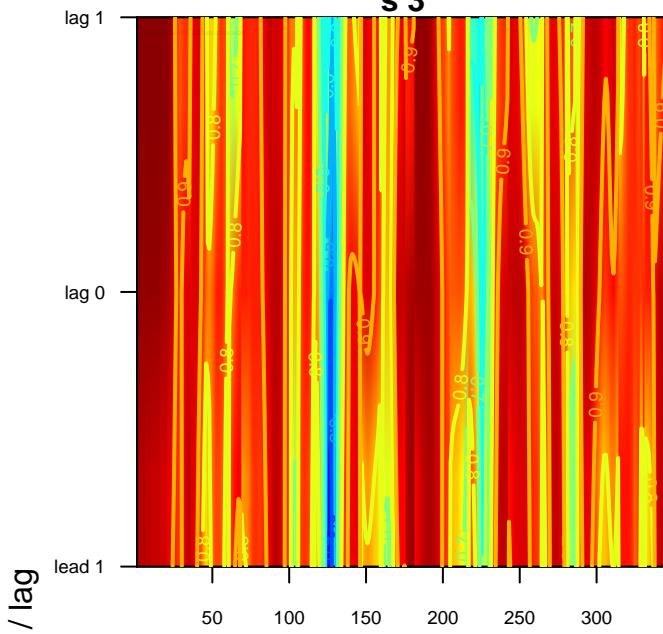
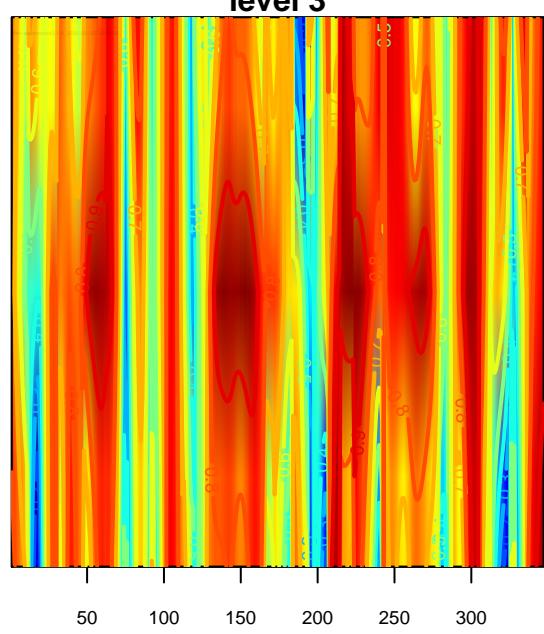


Wavelet Local Multiple Cross-Correlation

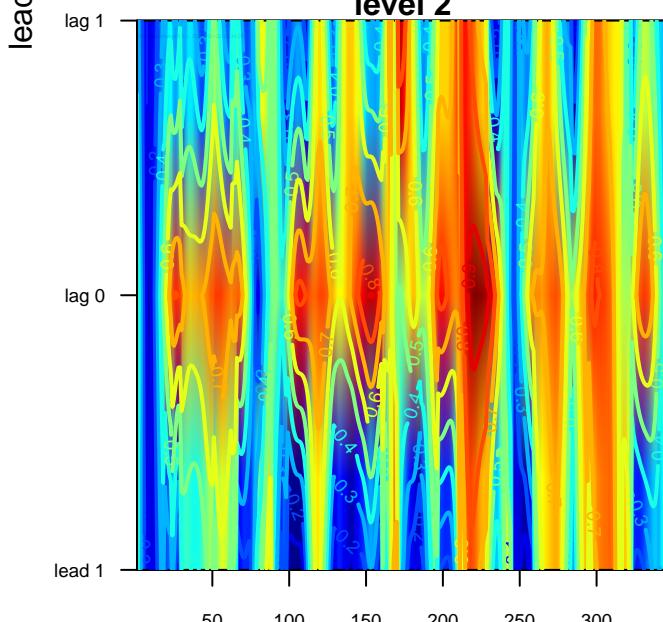
s 3



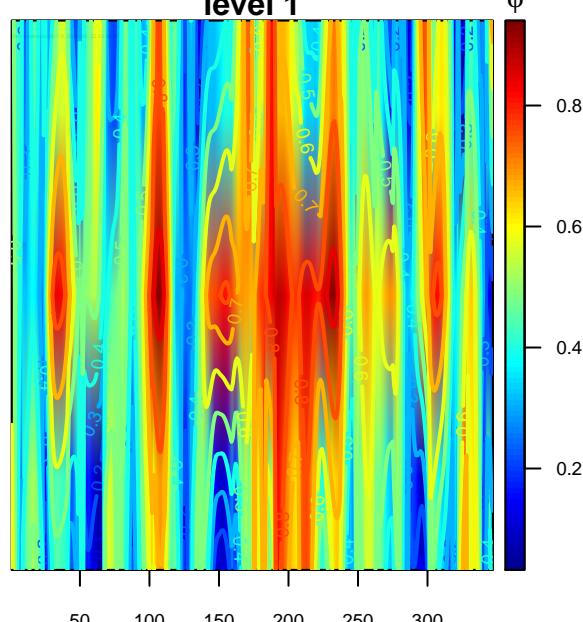
level 3



level 2



level 1

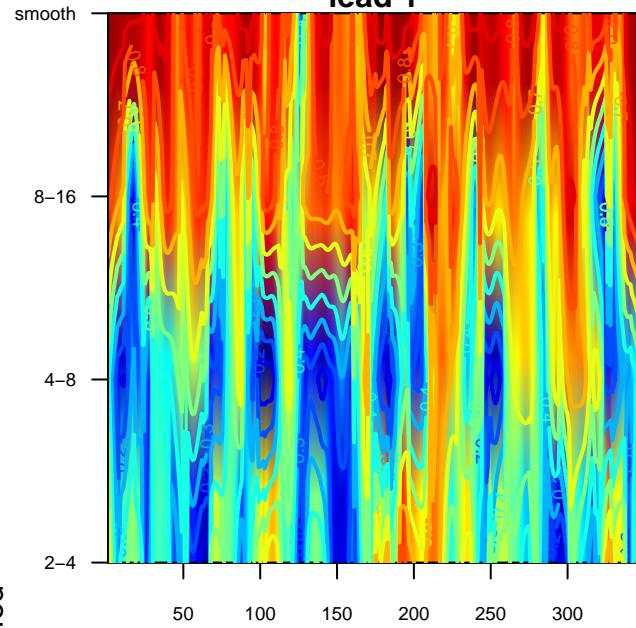


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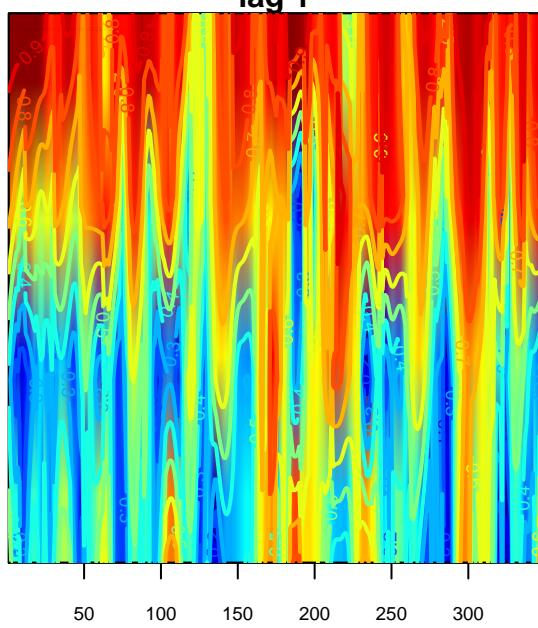


Wavelet Local Multiple Cross-Correlation

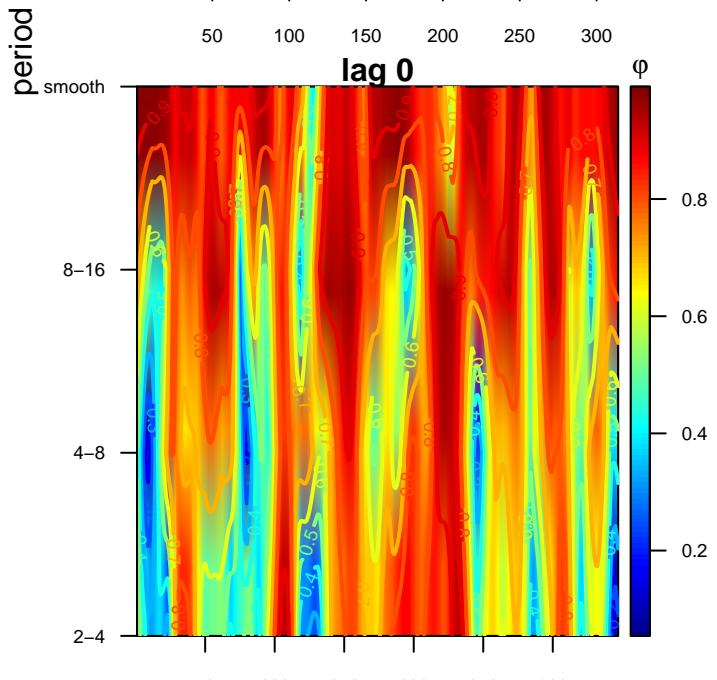
lead 1



lag 1

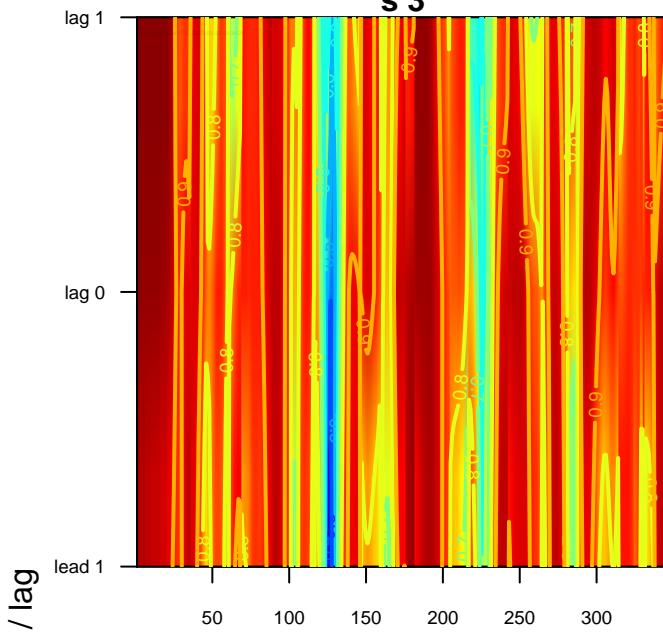


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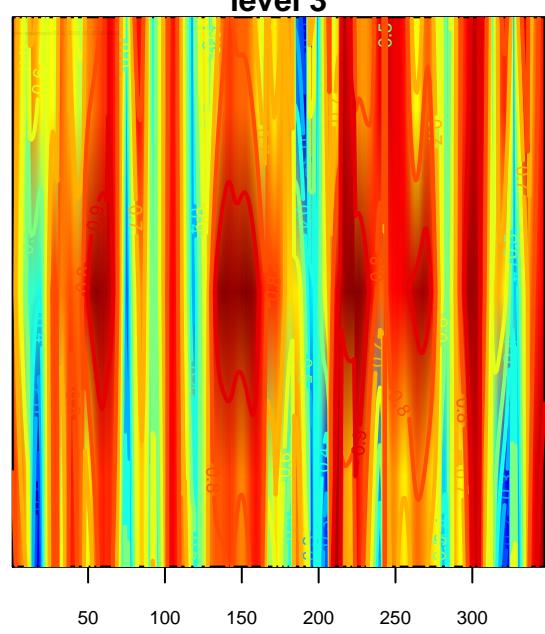


Wavelet Local Multiple Cross-Correlation

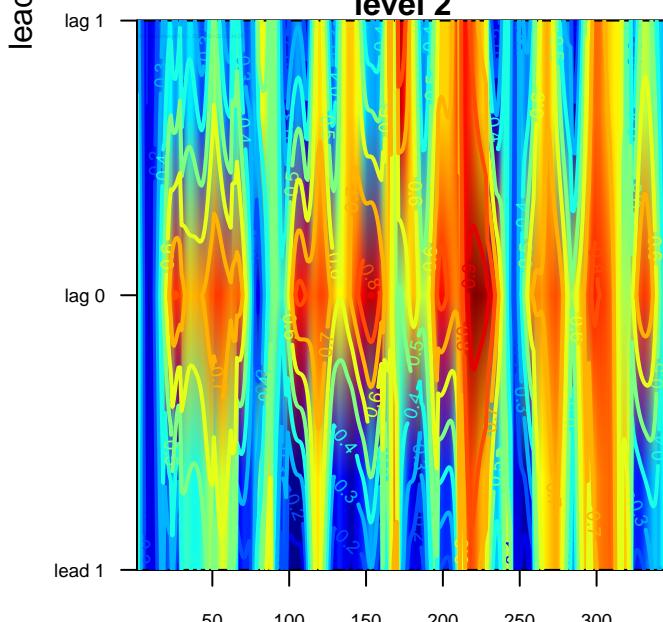
s 3



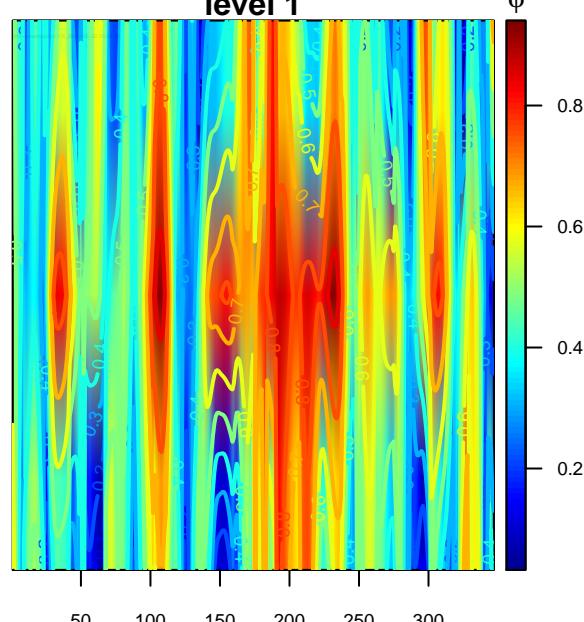
level 3



level 2



level 1

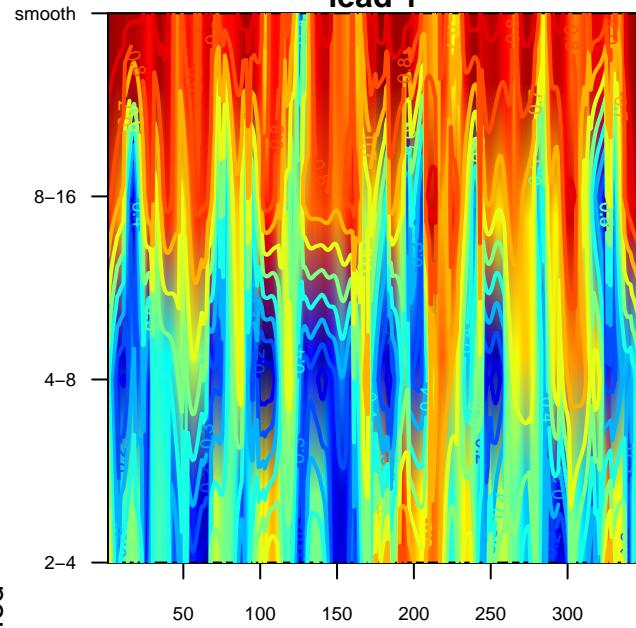


ϕ

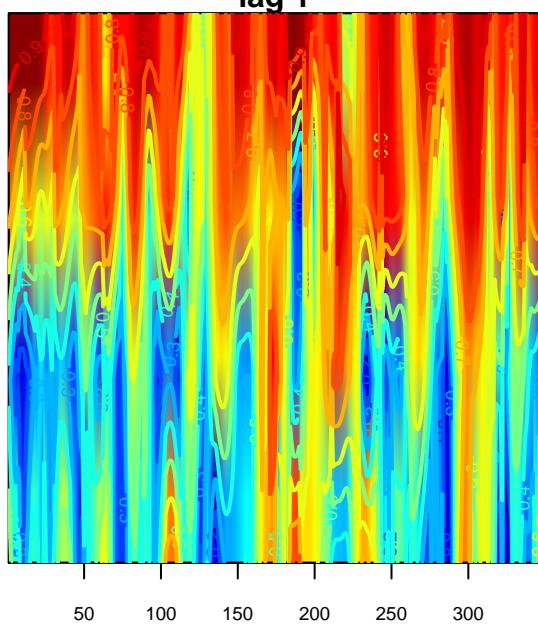


Wavelet Local Multiple Cross-Correlation

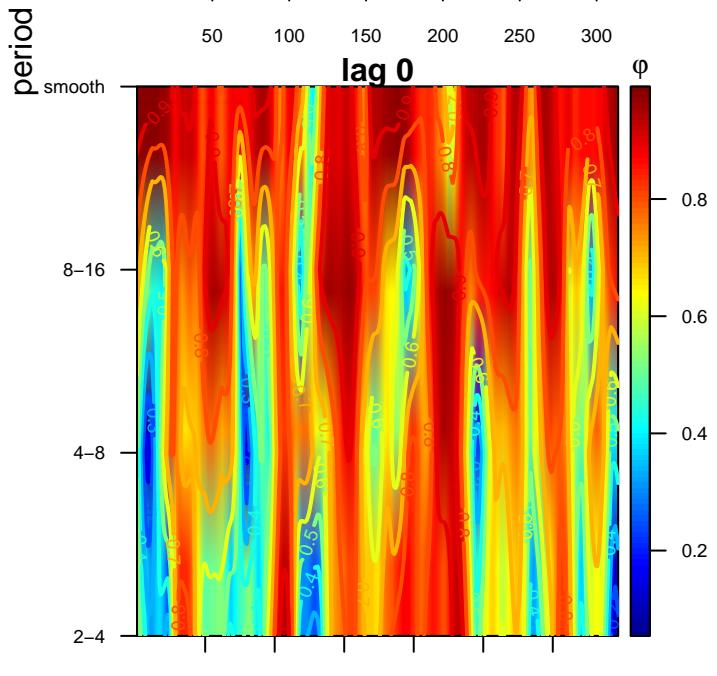
lead 1



lag 1

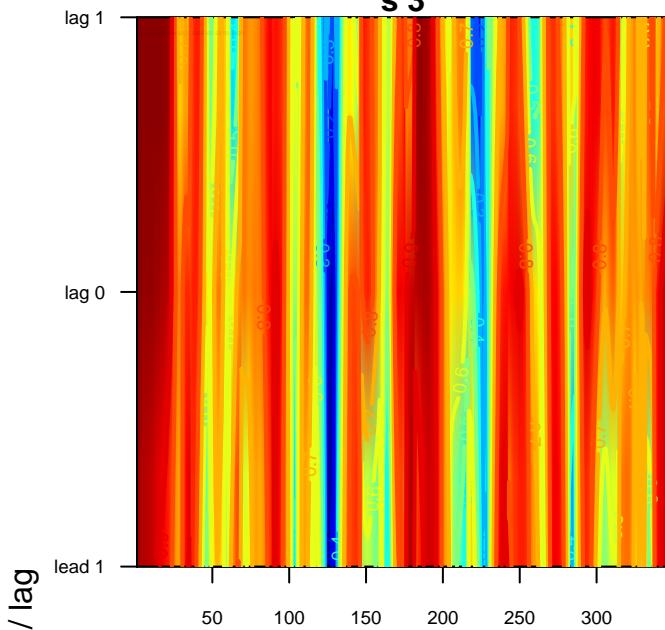


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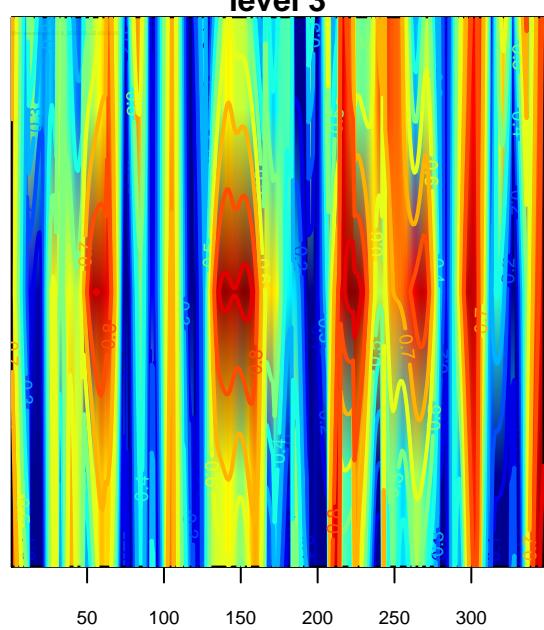


Wavelet Local Multiple Cross-Correlation

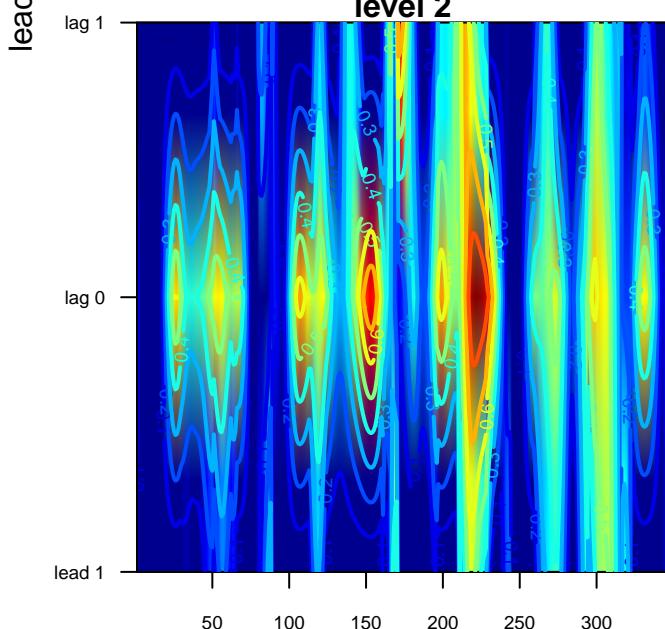
s 3



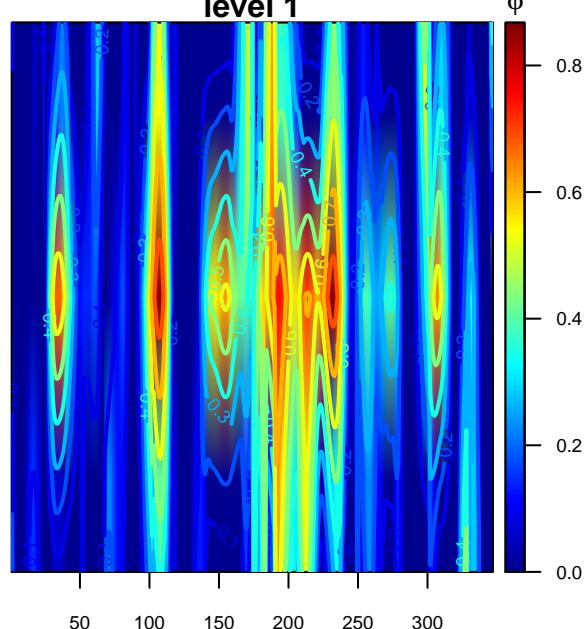
level 3



level 2

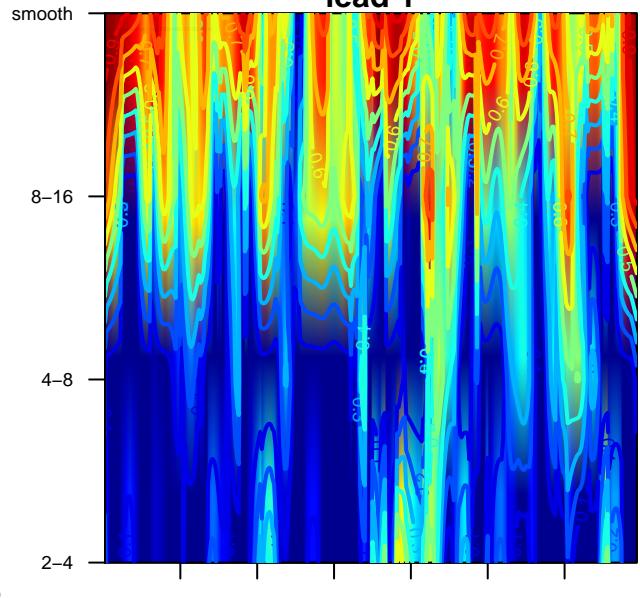


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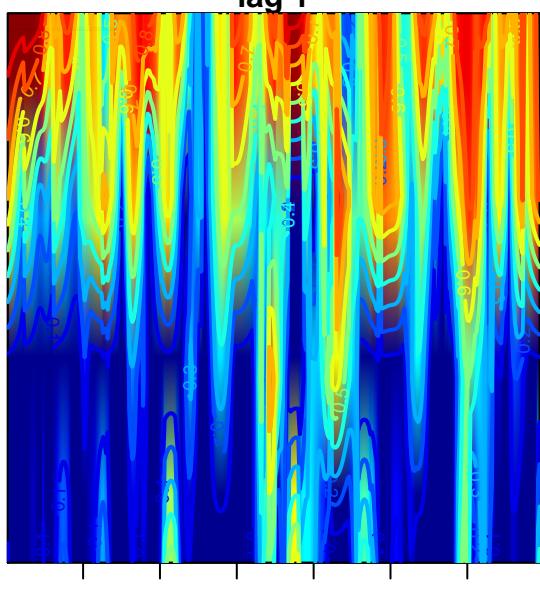


Wavelet Local Multiple Cross-Correlation

lead 1

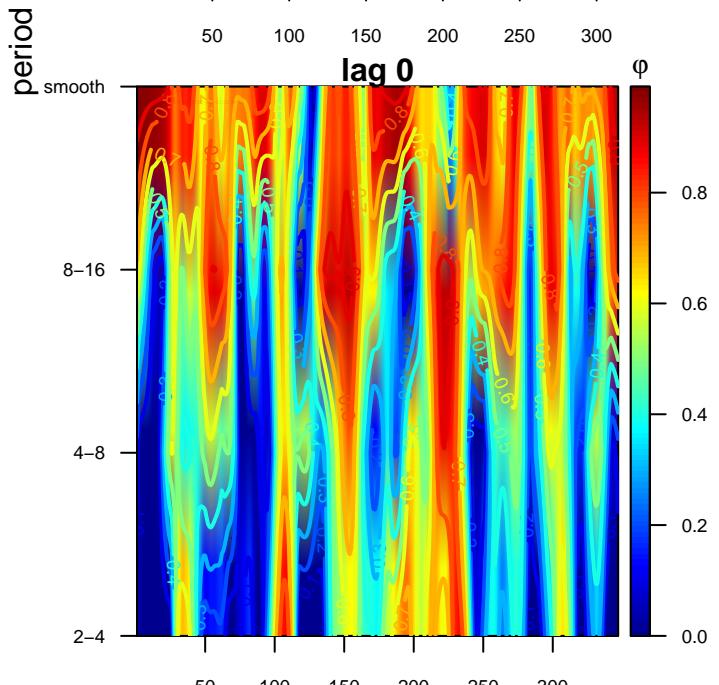


lag 1



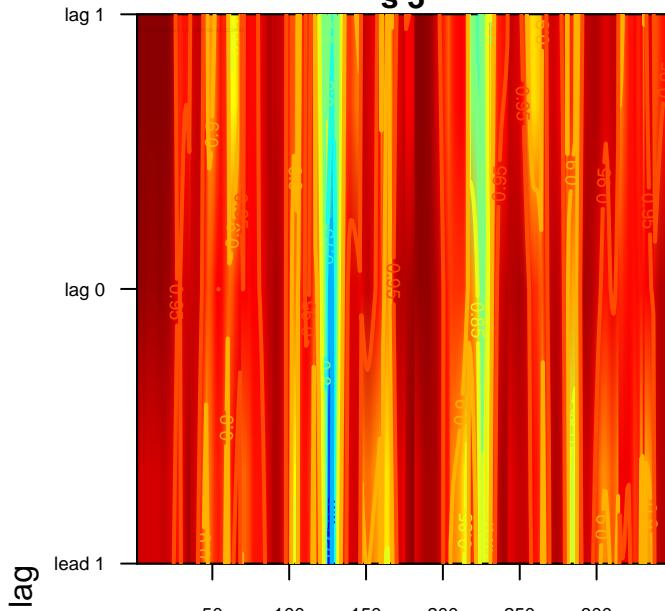
lag 0

φ

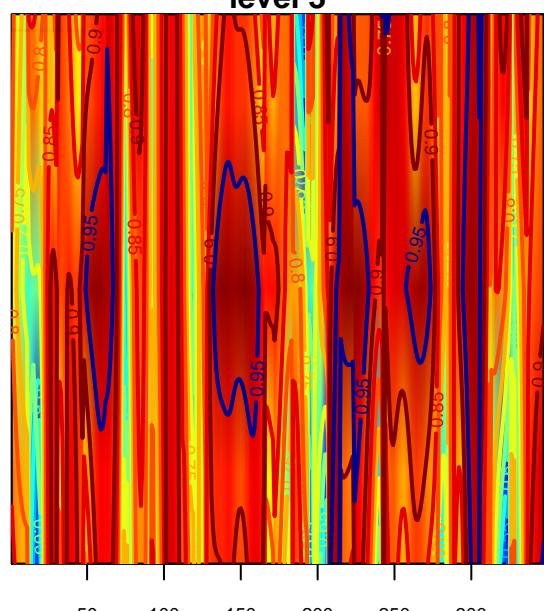


Wavelet Local Multiple Cross-Correlation

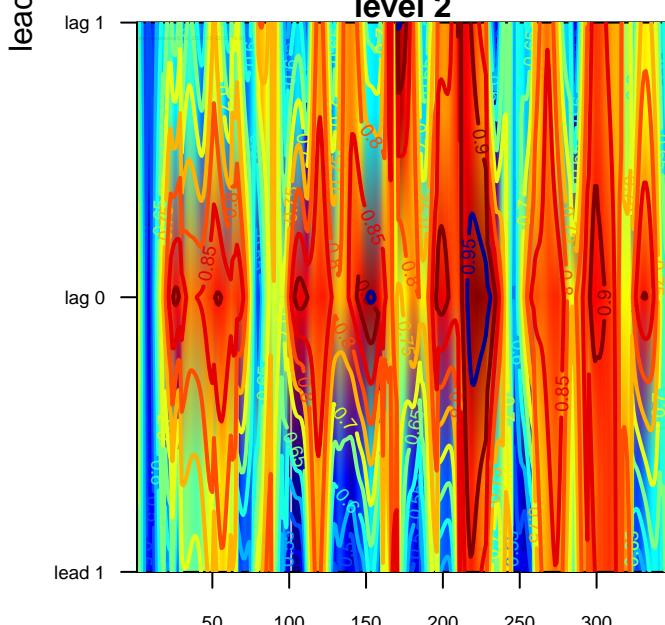
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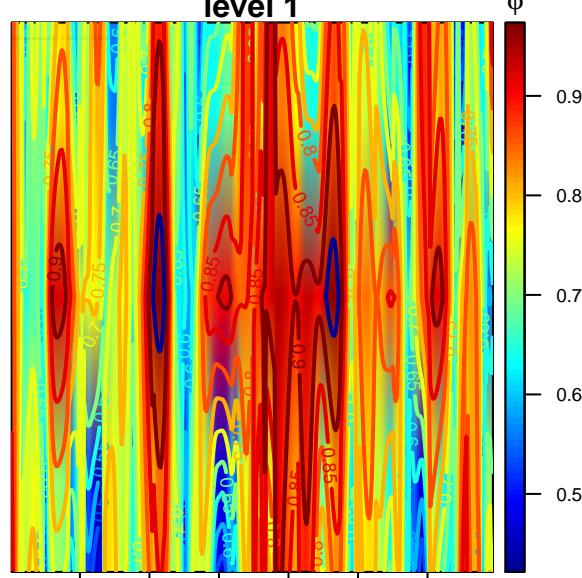
level 3



level 2

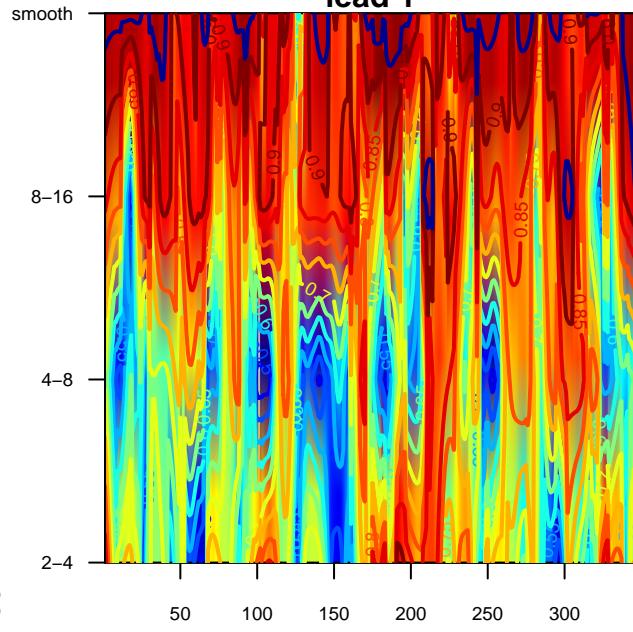


level 1

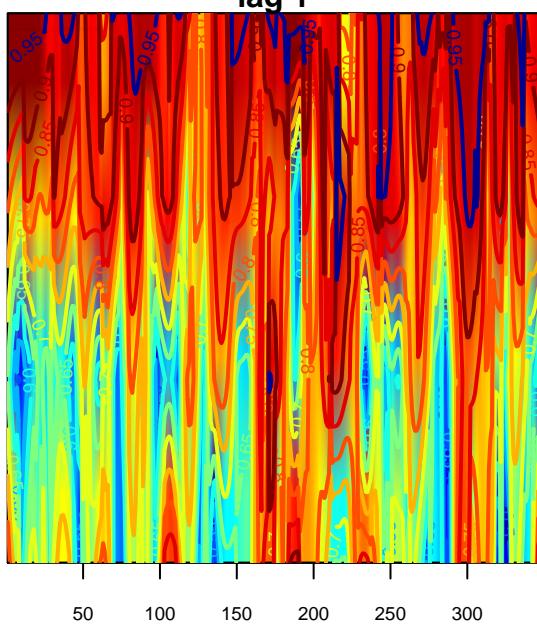


Wavelet Local Multiple Cross-Correlation

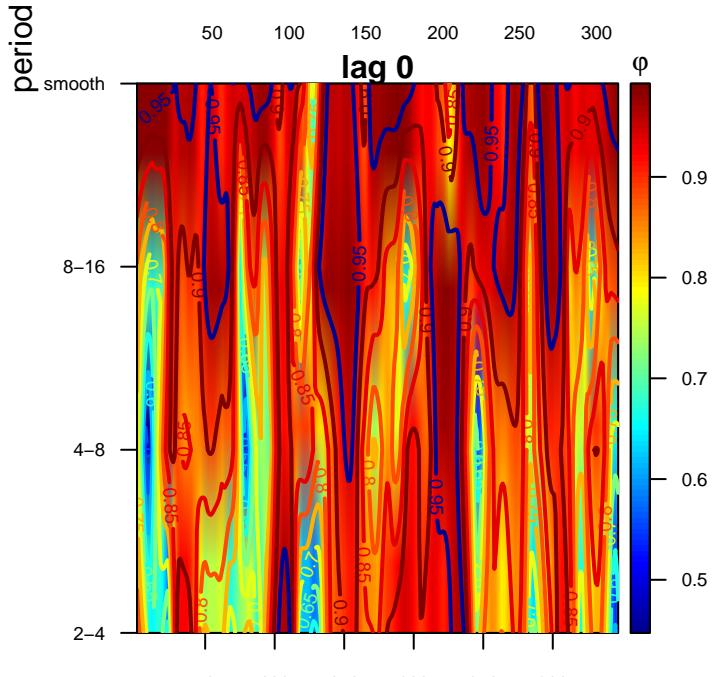
lead 1



lag 1



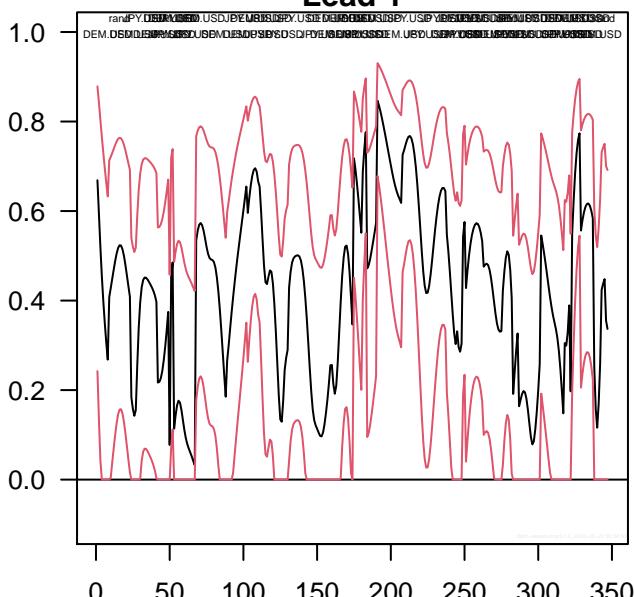
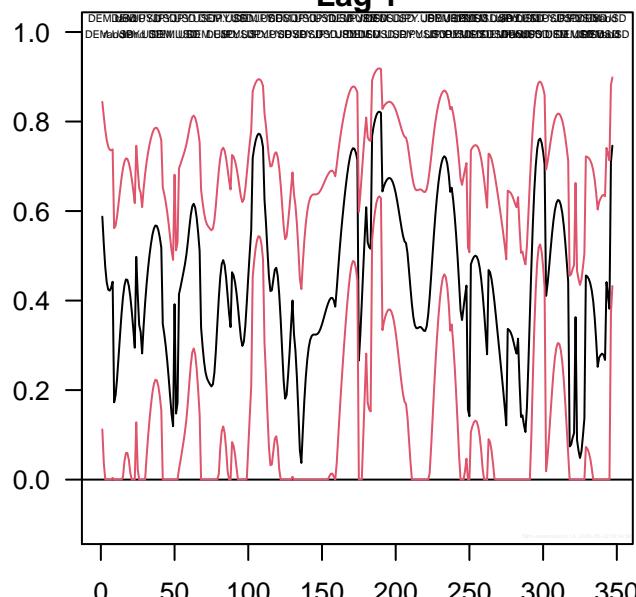
lag 0



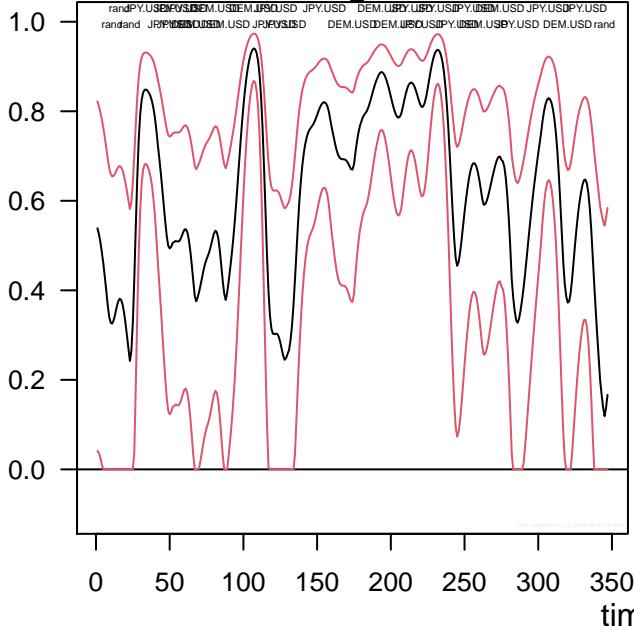
level 1

Lead 1

Wavelet Local Multiple Cross-Correlation

**Lag 1****Lag 0**

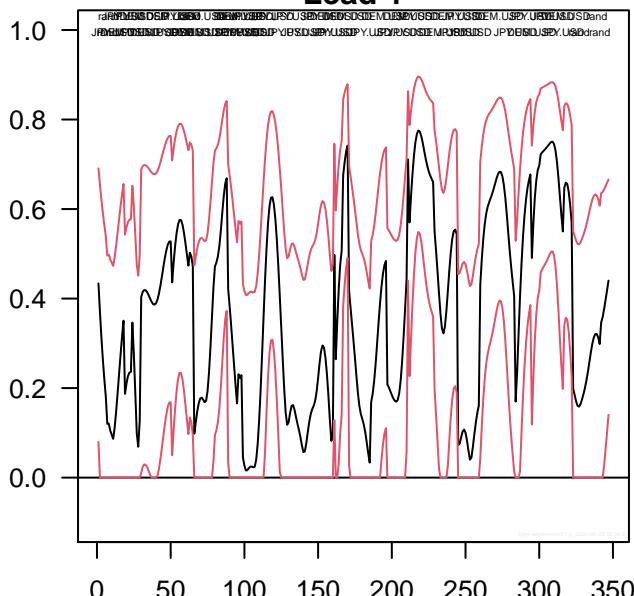
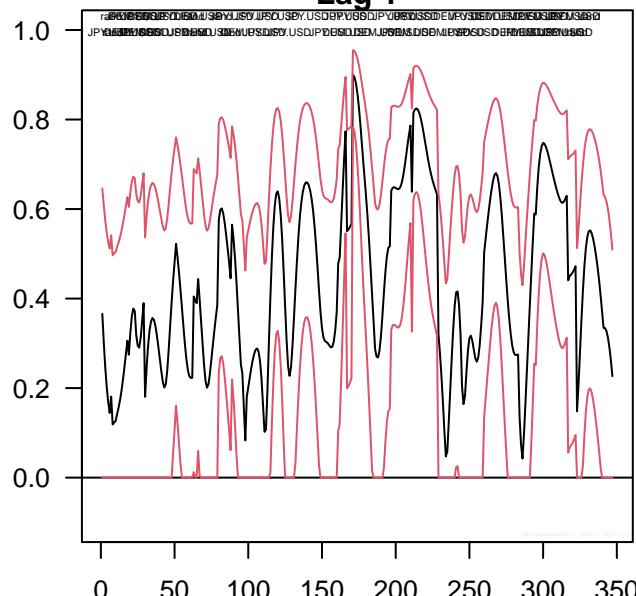
Wavelet Local Multiple Cross-Correlation



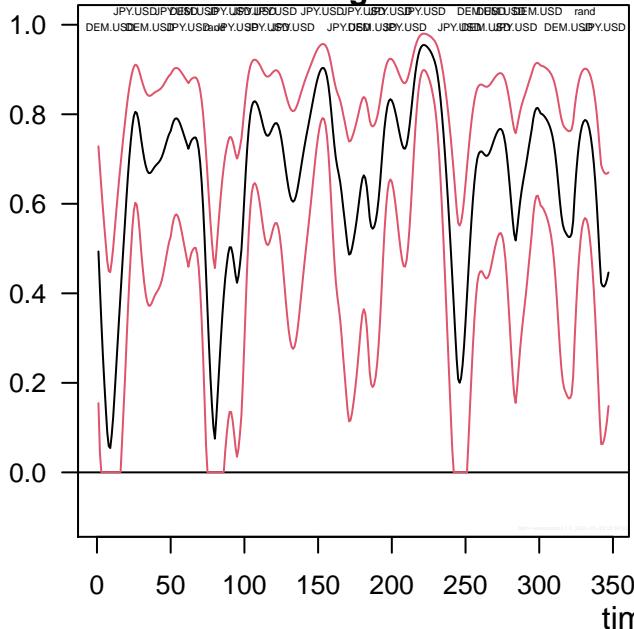
level 2

Lead 1

Wavelet Local Multiple Cross-Correlation

**Lag 1****Lag 0**

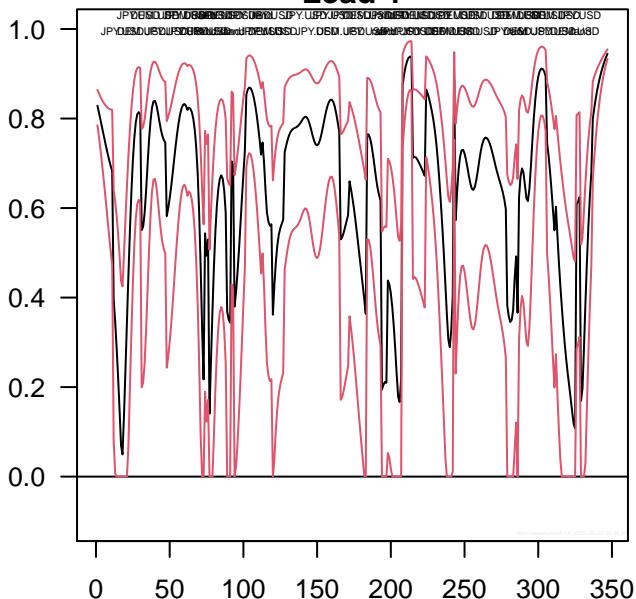
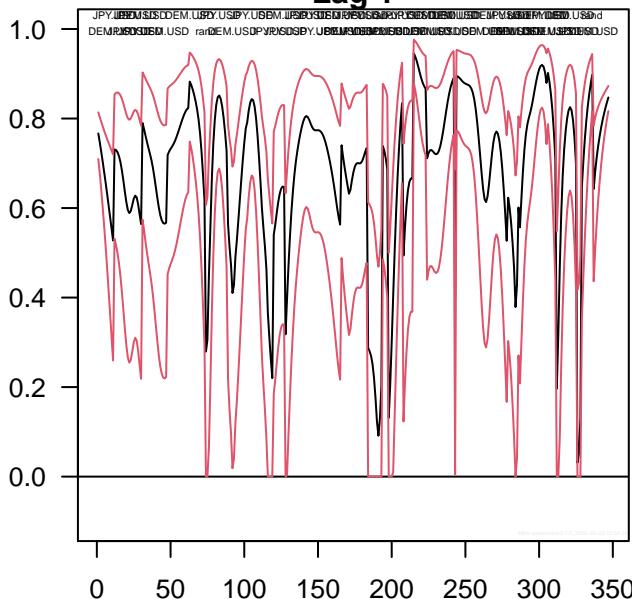
Wavelet Local Multiple Cross-Correlation



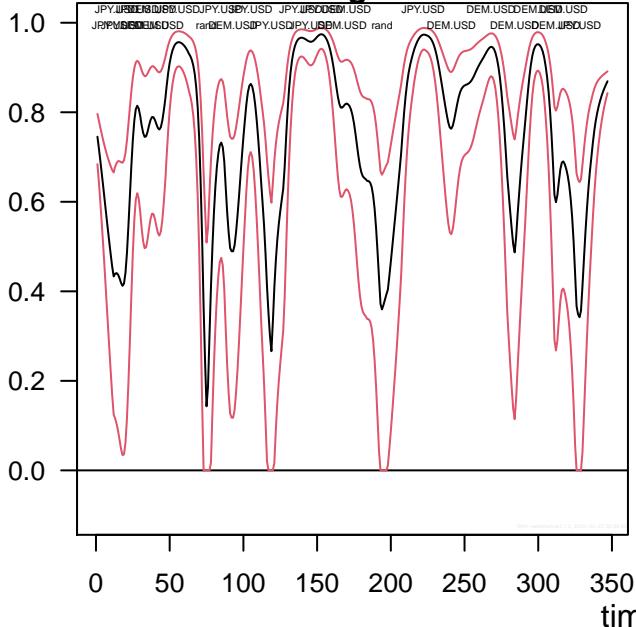
level 3

Lead 1

Wavelet Local Multiple Cross-Correlation

**Lag 1****Lag 0**

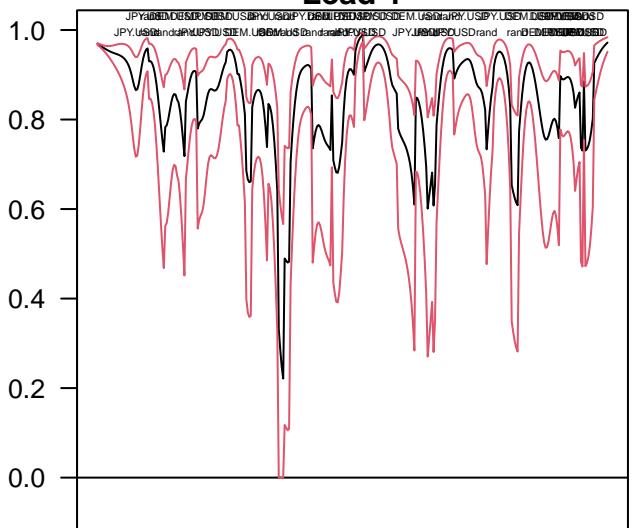
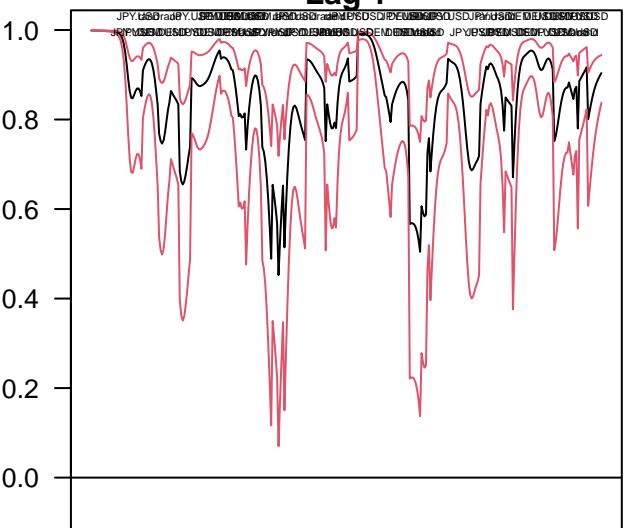
Wavelet Local Multiple Cross-Correlation



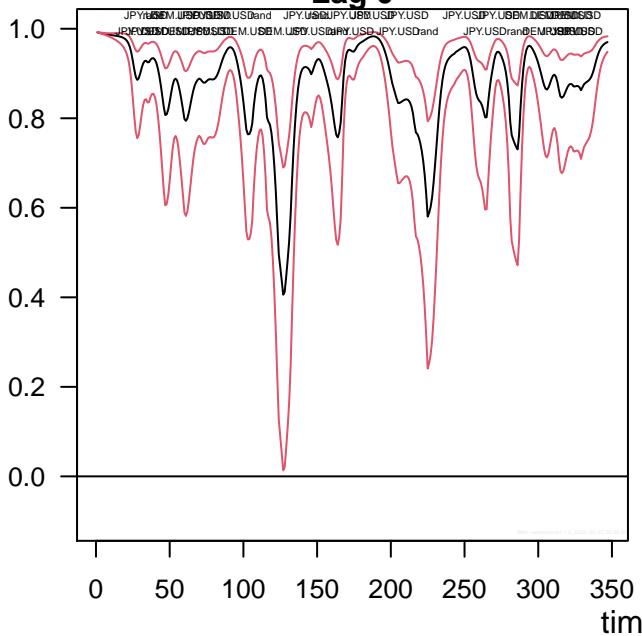
s 3

Lead 1

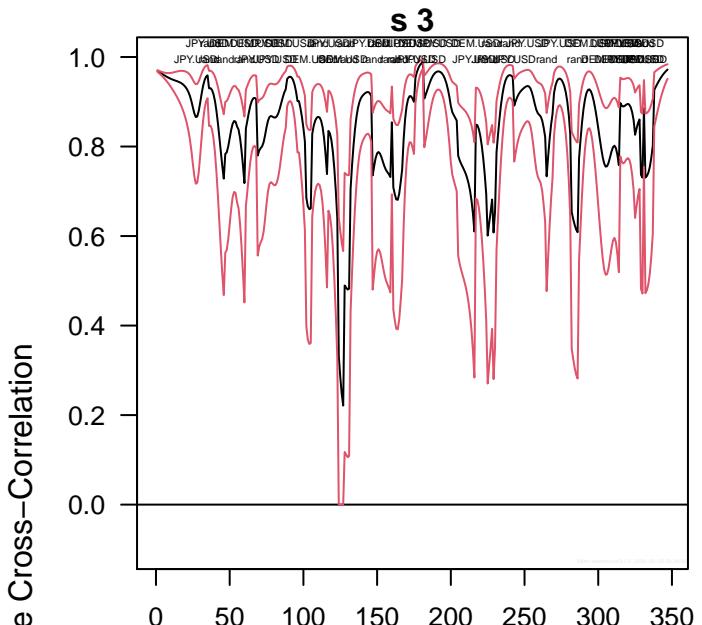
Wavelet Local Multiple Cross-Correlation

**Lag 1****Lag 0**

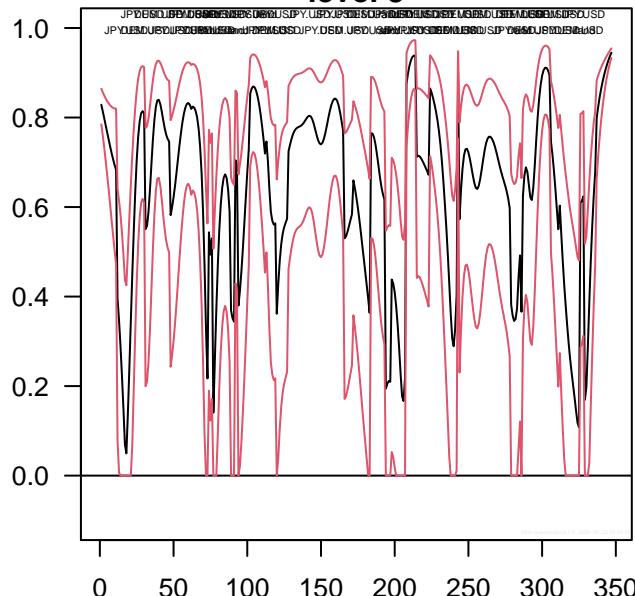
Wavelet Local Multiple Cross-Correlation



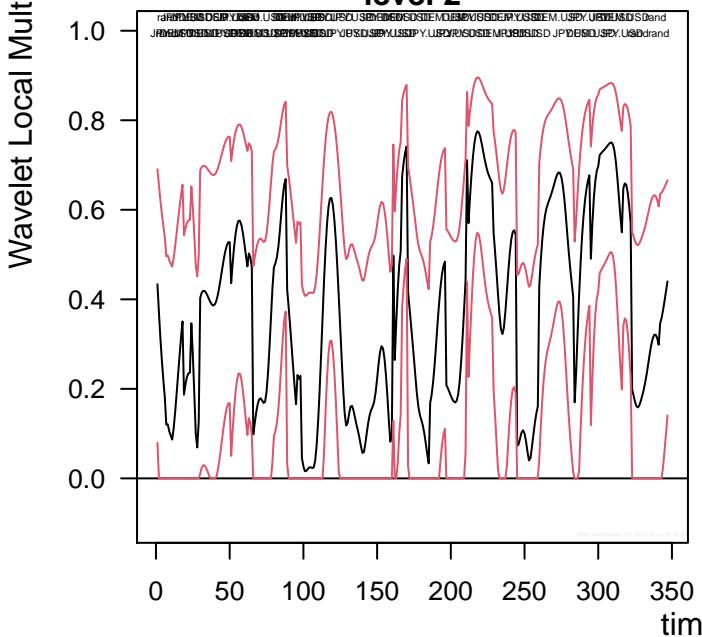
Lead 1



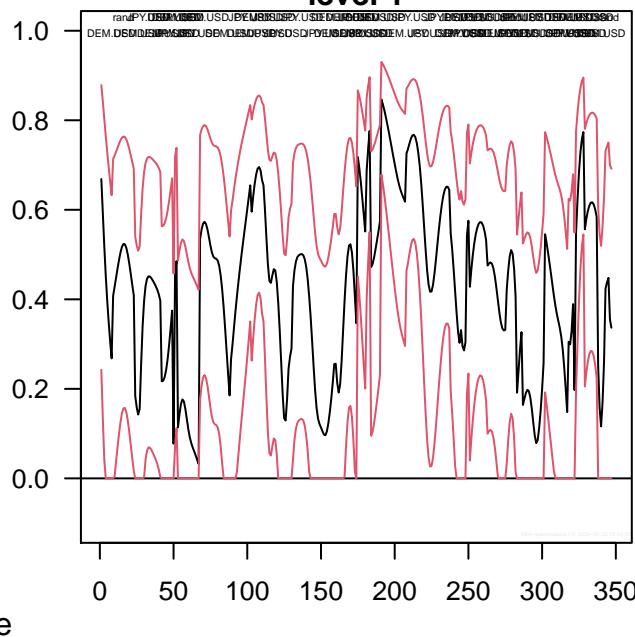
level 3



level 2



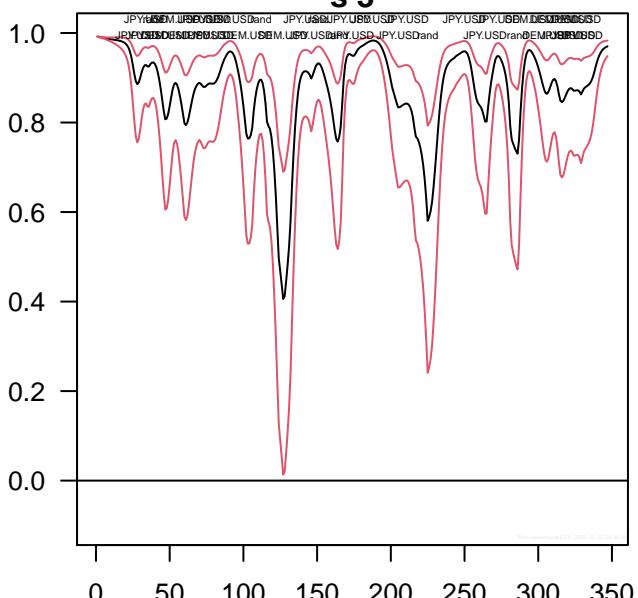
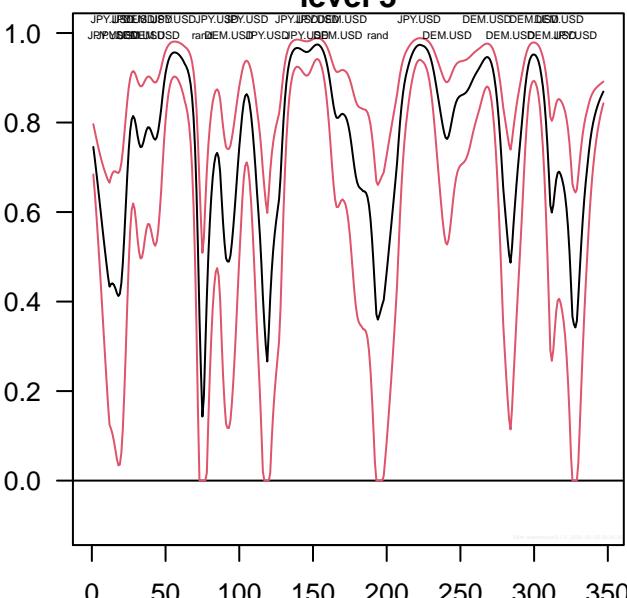
level 1



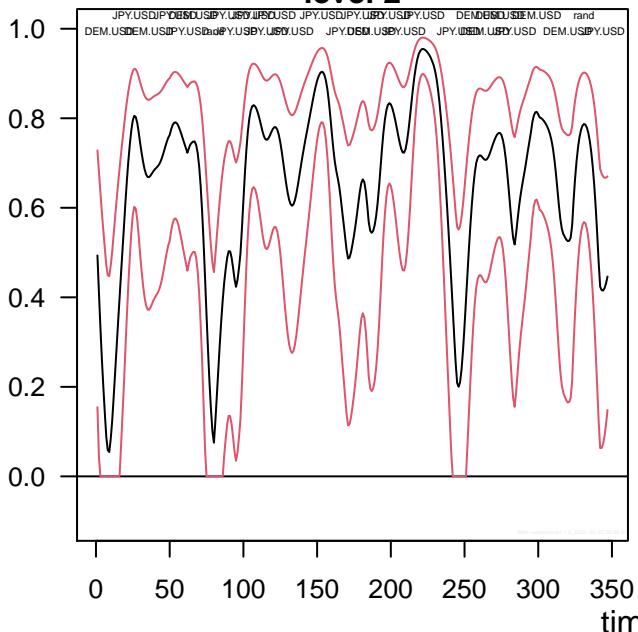
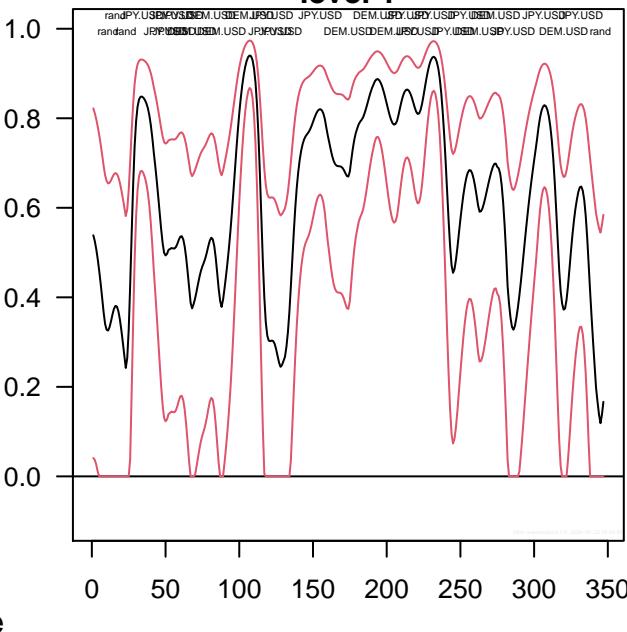
Lag 0

s 3

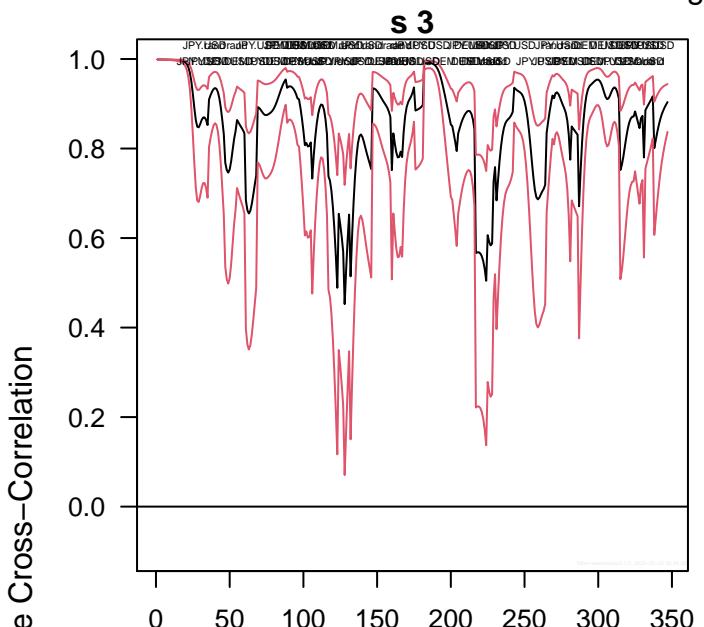
Wavelet Local Multiple Cross-Correlation

**level 3****level 2**

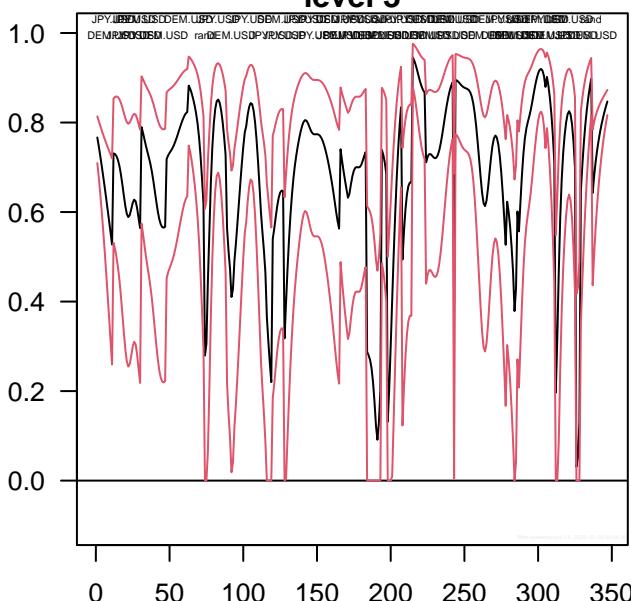
Wavelet Local Multiple Cross-Correlation

**level 1**

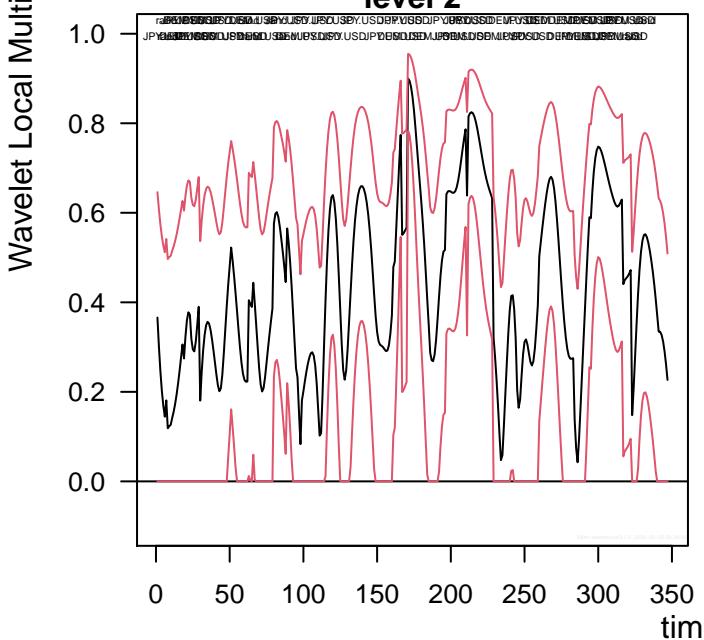
Lag 1



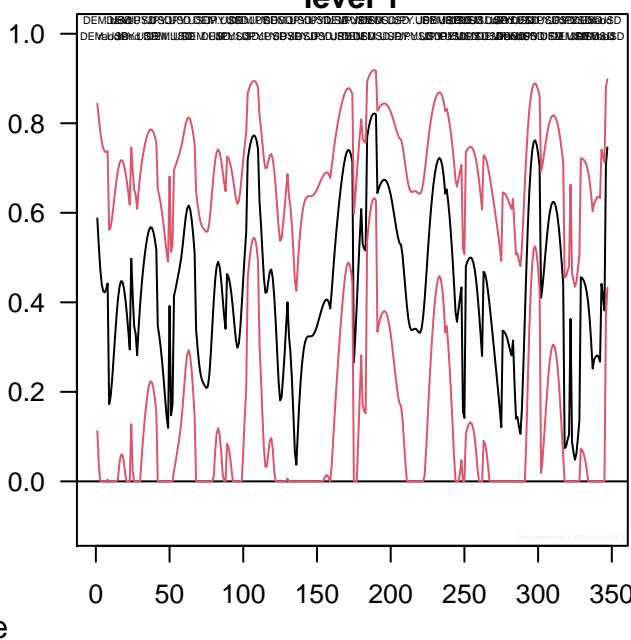
level 3



level 2



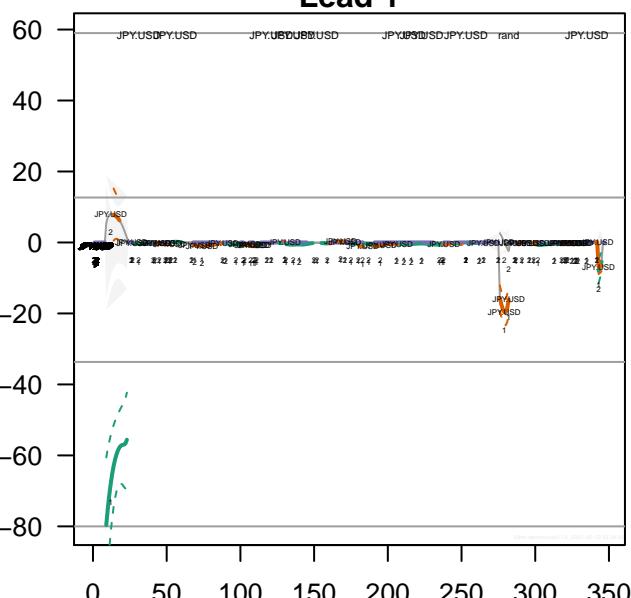
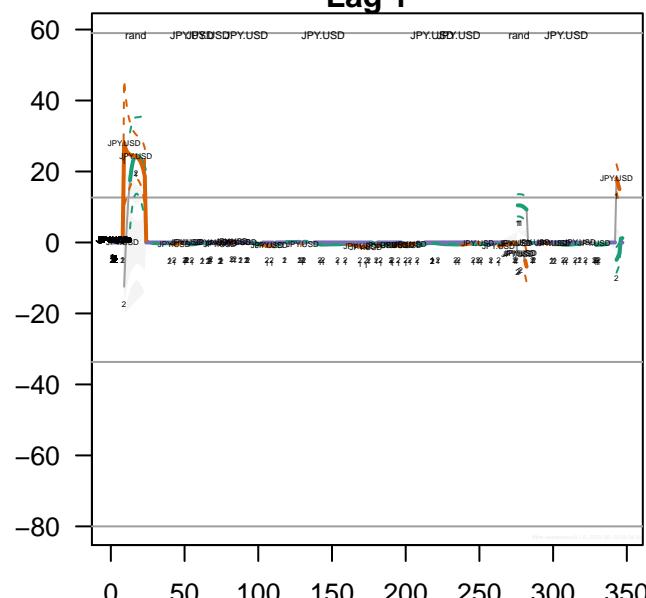
level 1



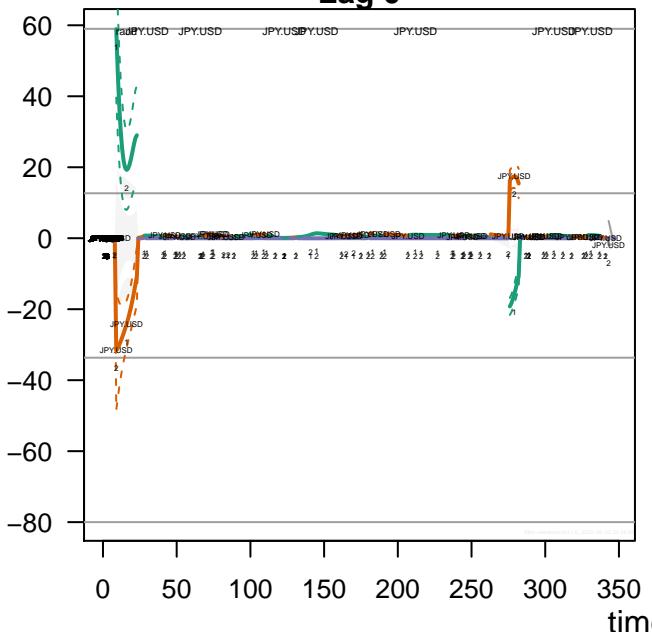
level 1

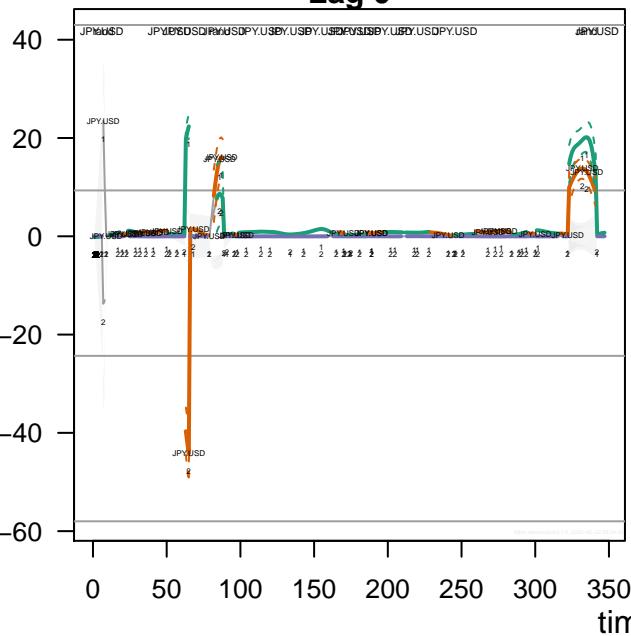
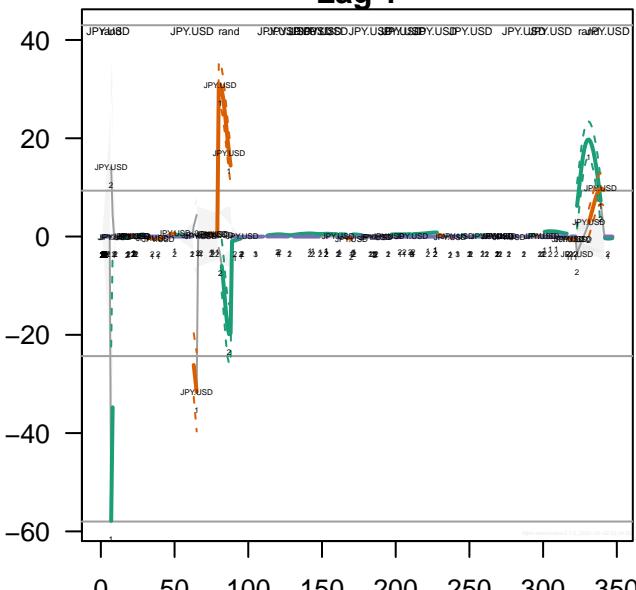
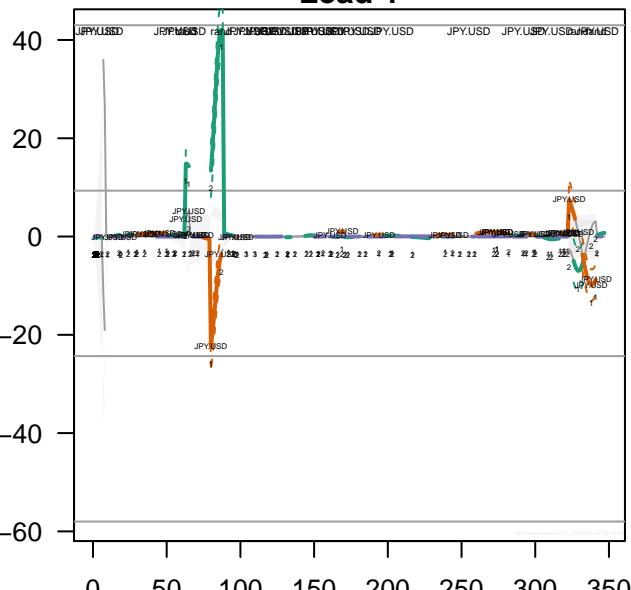
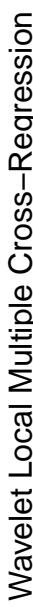
Lead 1

Wavelet Local Multiple Cross-Regression

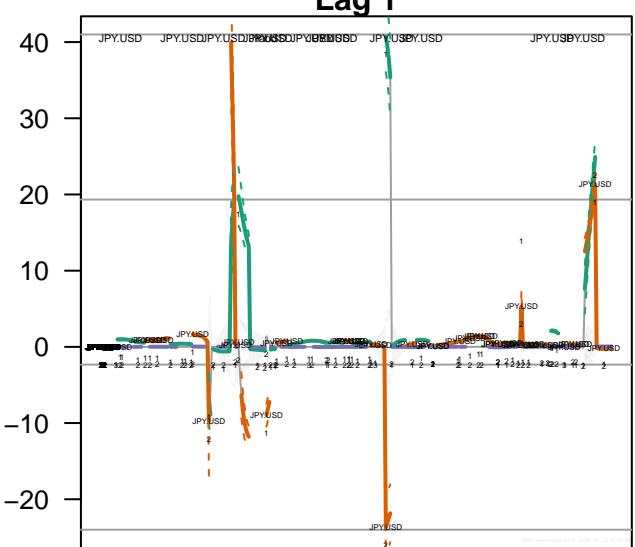
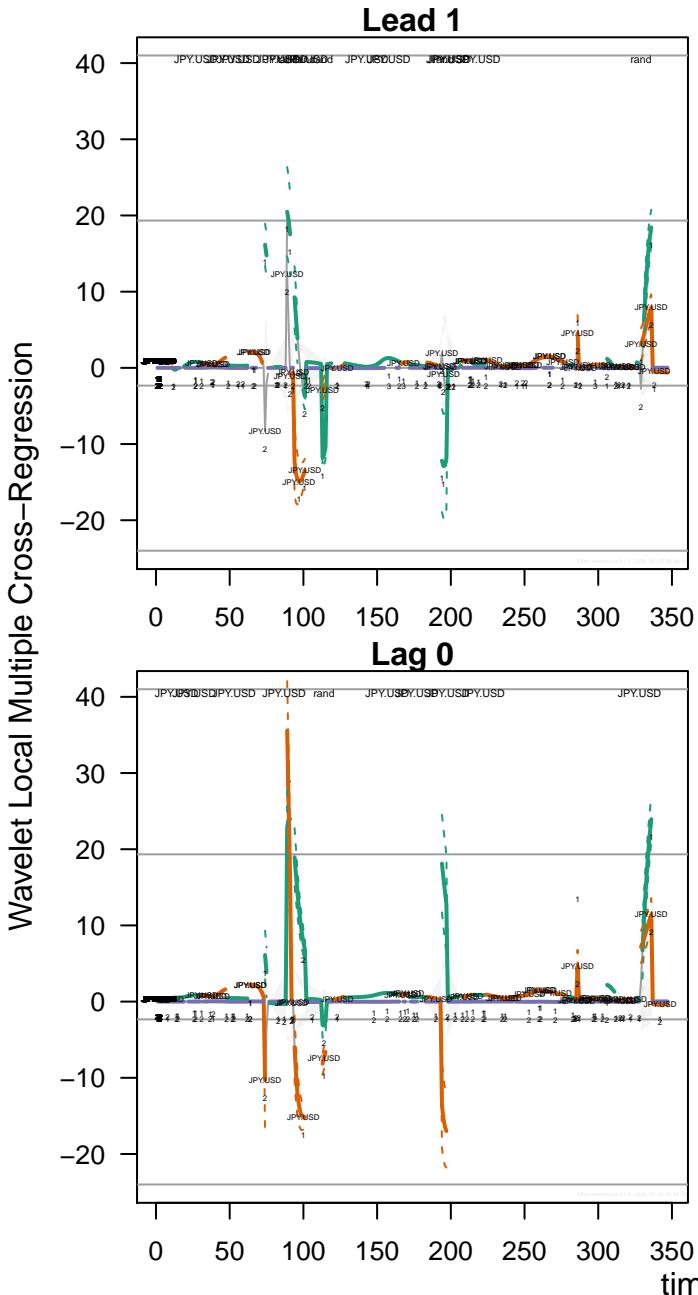
**Lag 1****Lag 0**

Wavelet Local Multiple Cross-Regression





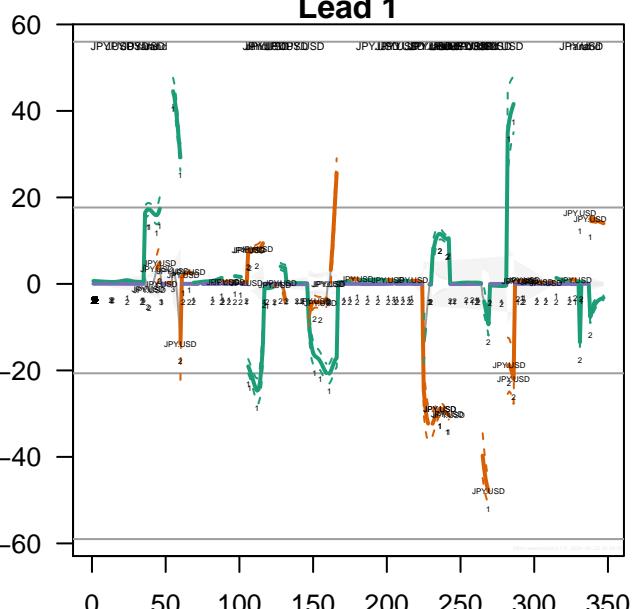
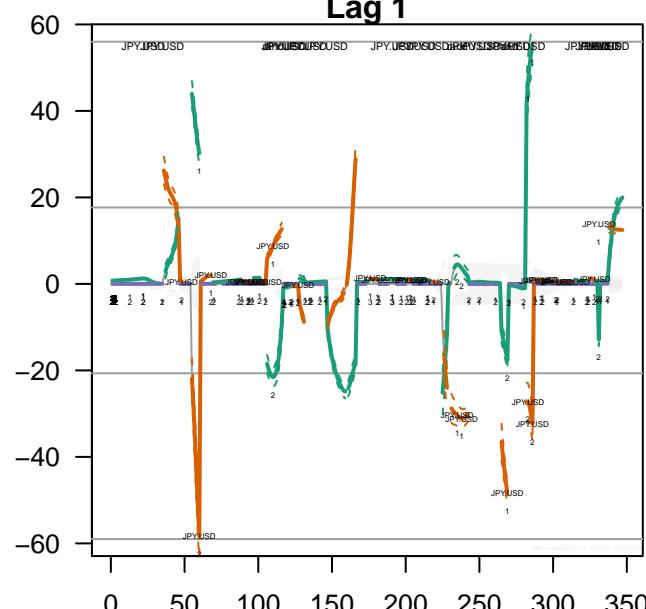
level 3



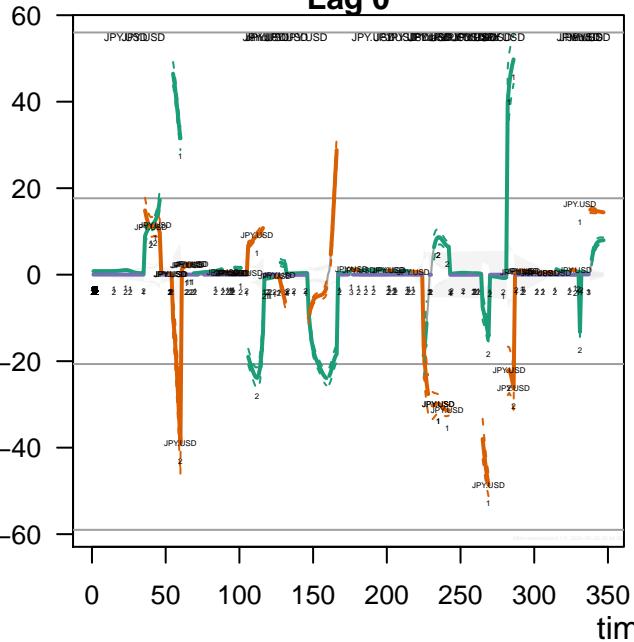
s 3

Lead 1

Wavelet Local Multiple Cross-Regression

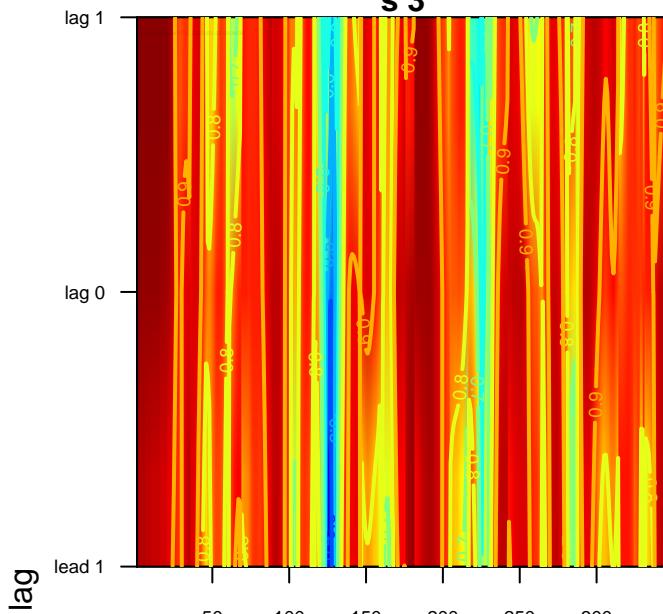
**Lag 1****Lag 0**

Wavelet Local Multiple Cross-Regression

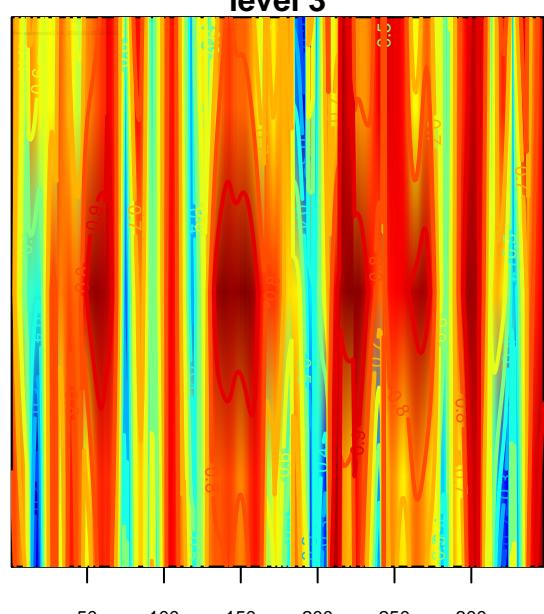


Wavelet Local Multiple Cross-Correlation

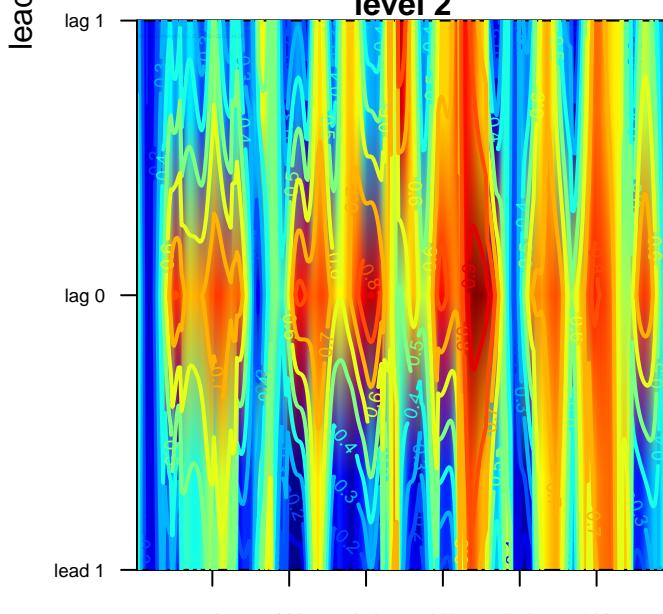
s 3



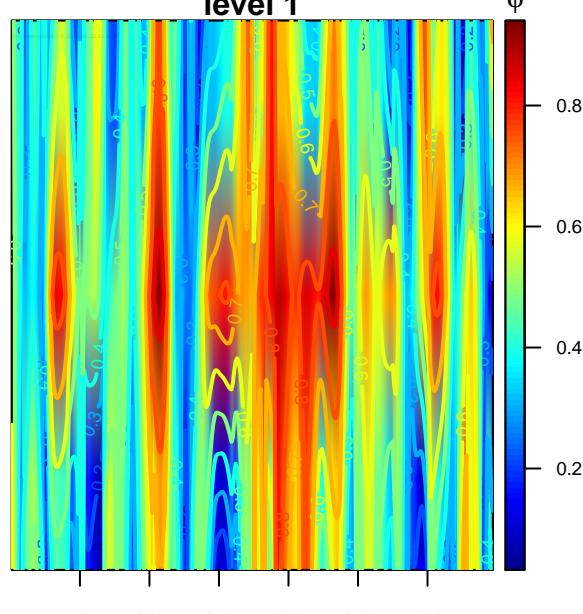
level 3



level 2



level 1

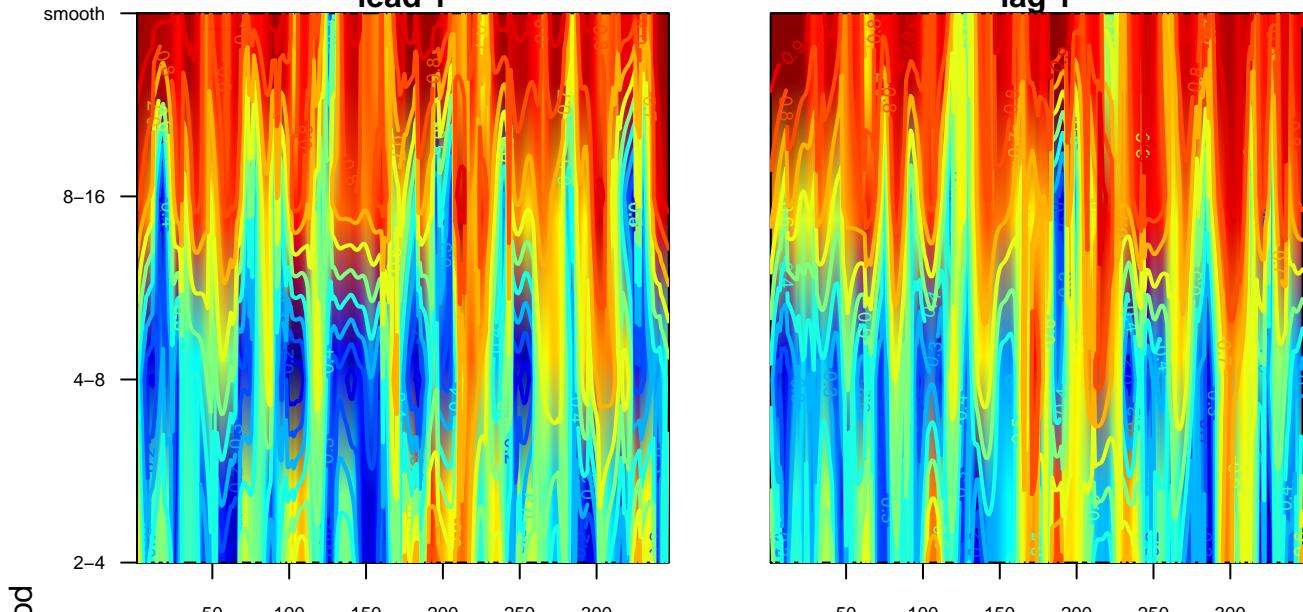


ϕ

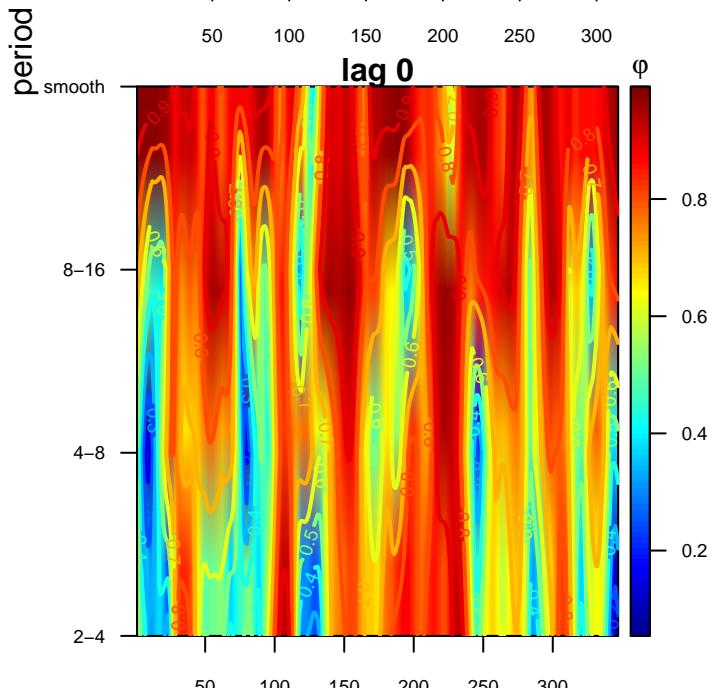


Wavelet Local Multiple Cross-Correlation

lead 1

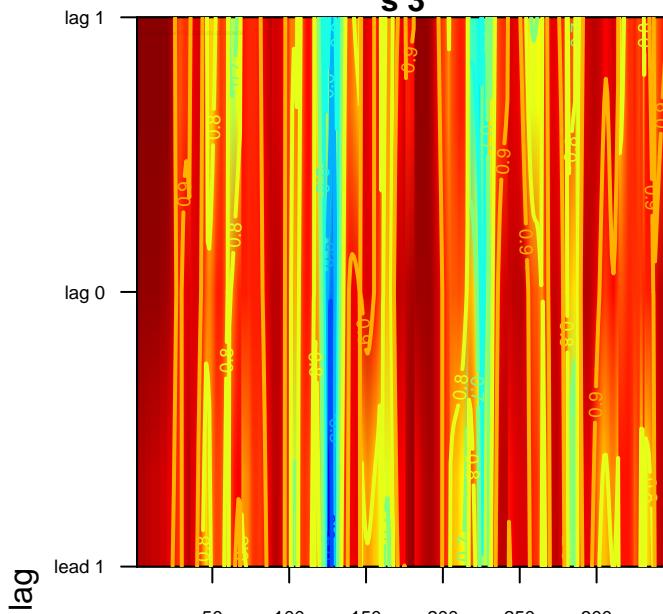


lag 1

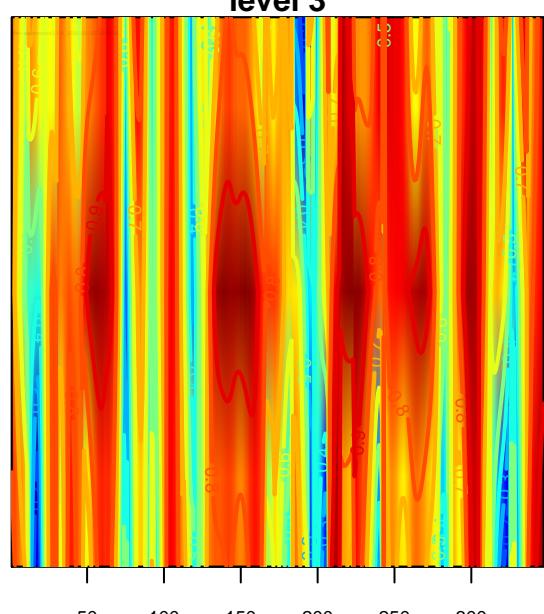


Wavelet Local Multiple Cross-Correlation

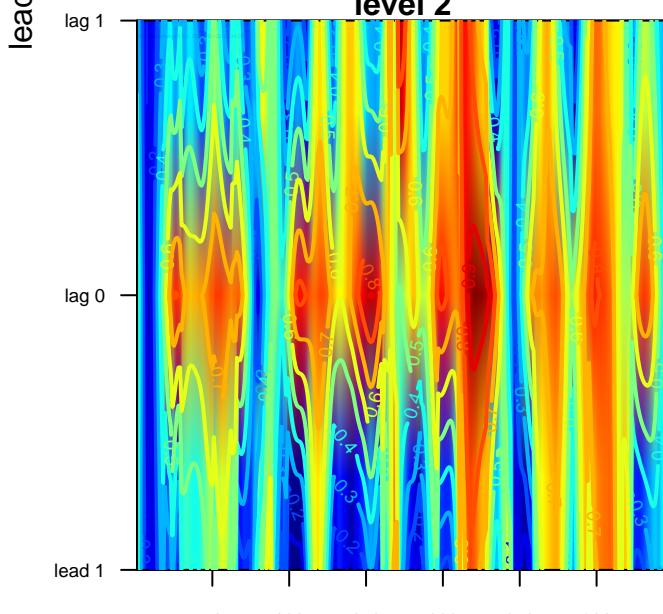
s 3



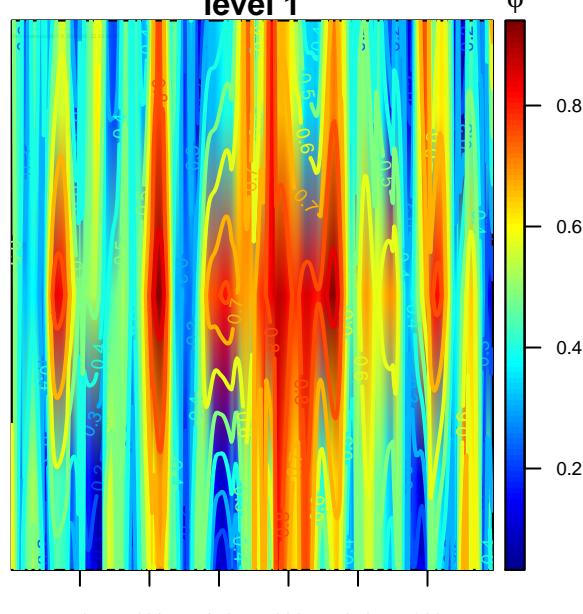
level 3



level 2



level 1

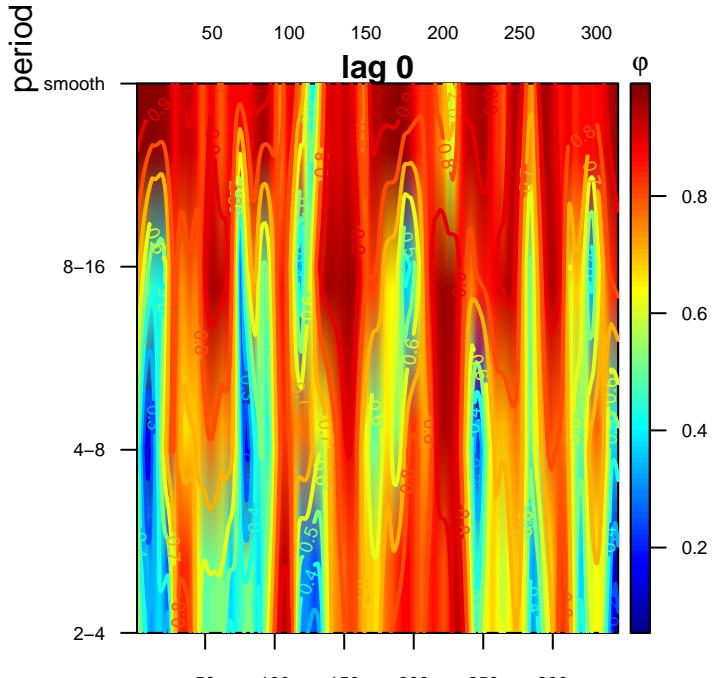
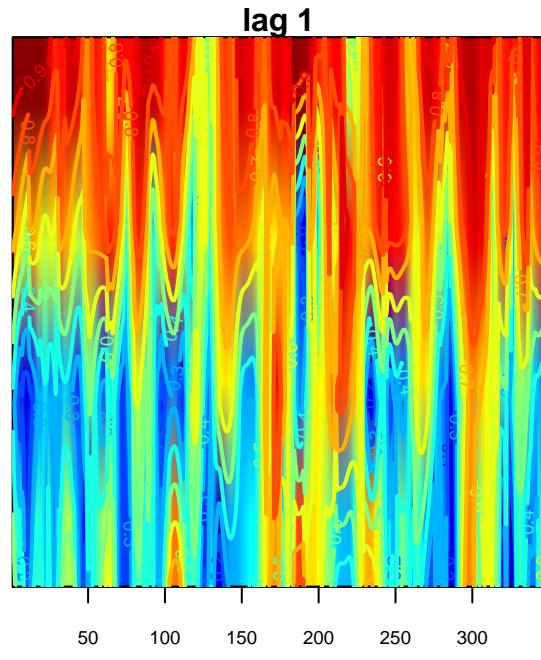
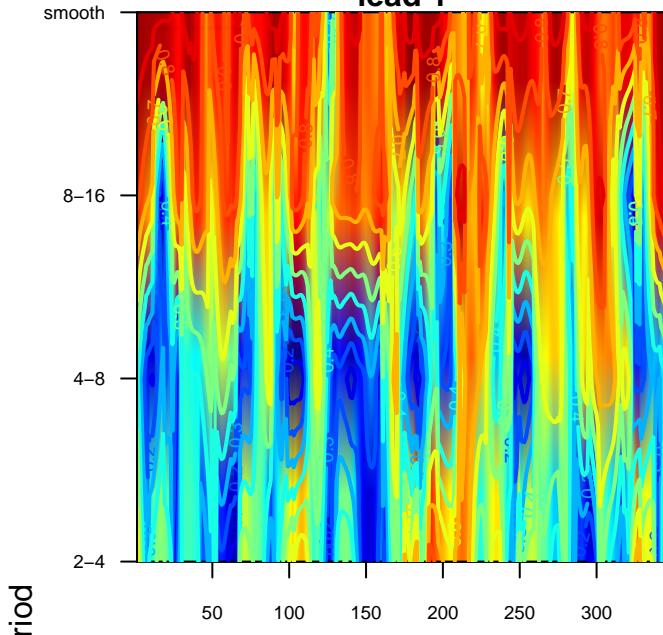


ϕ



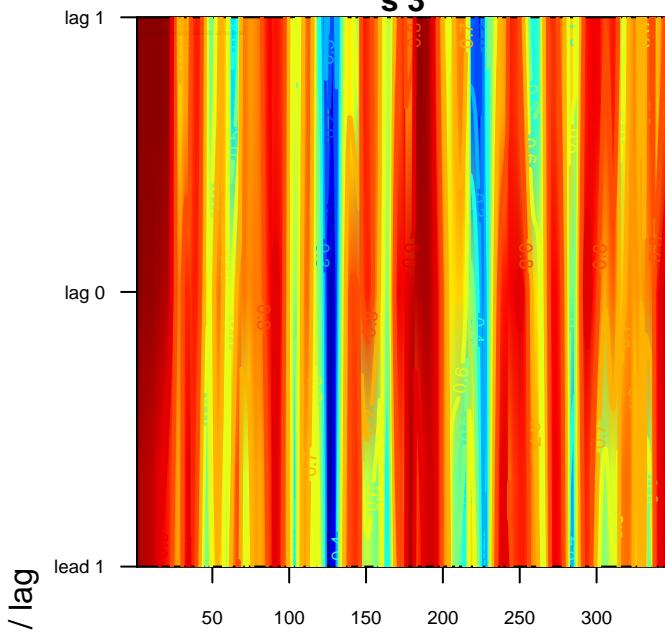
Wavelet Local Multiple Cross-Correlation

lead 1

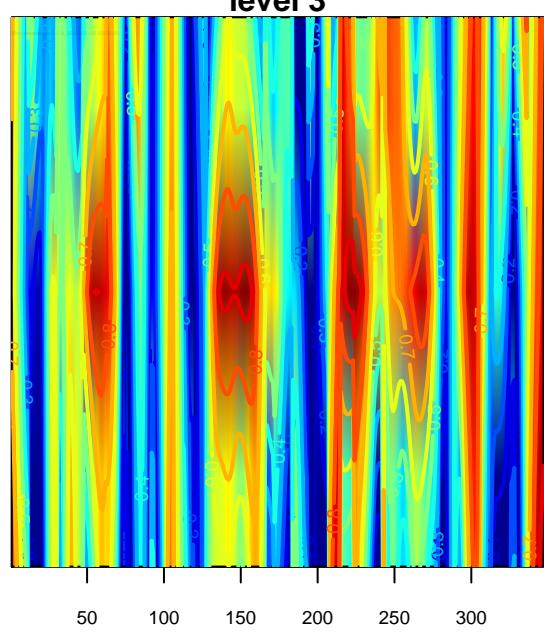


Wavelet Local Multiple Cross-Correlation

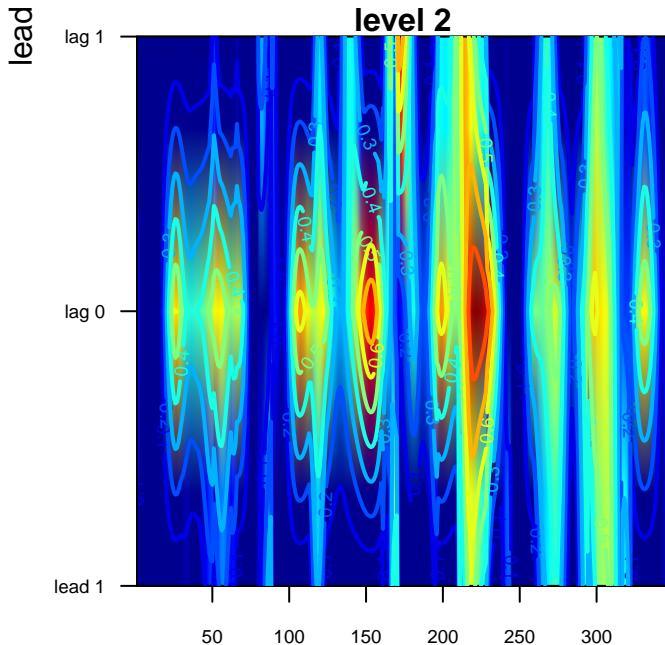
s 3



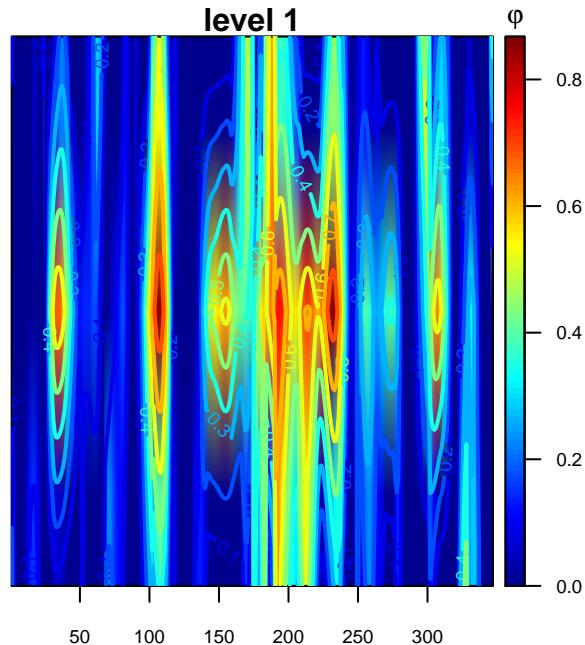
level 3



level 2

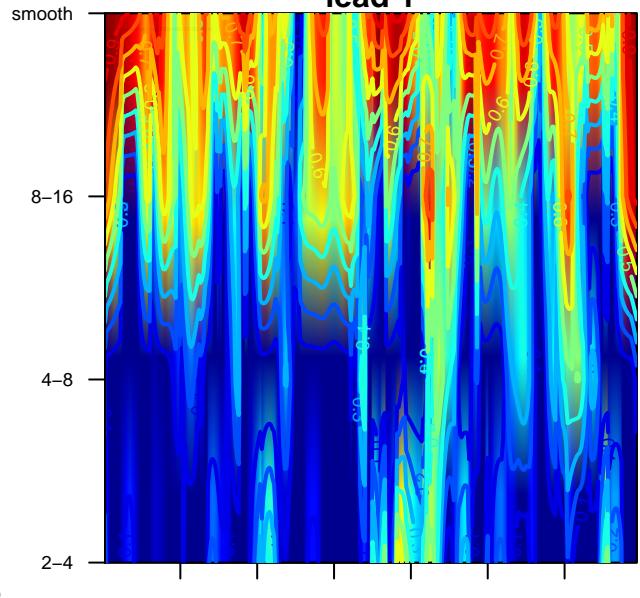


level 1

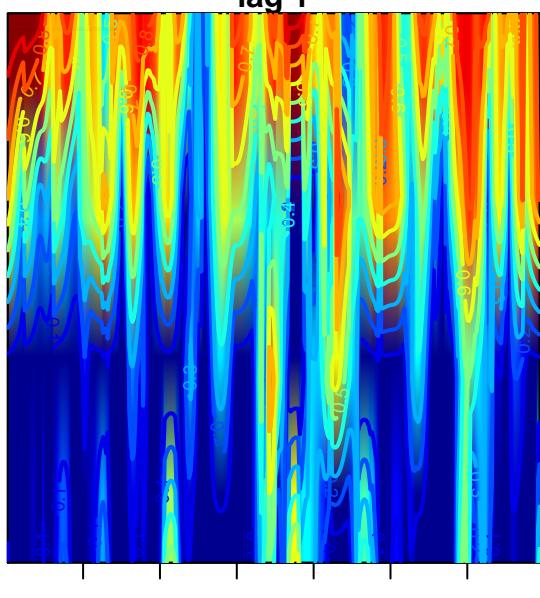


Wavelet Local Multiple Cross-Correlation

lead 1

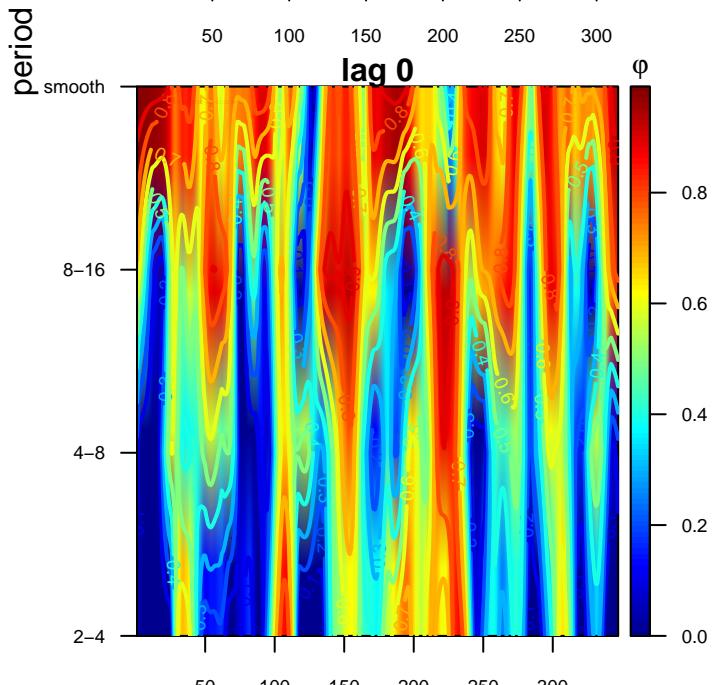


lag 1



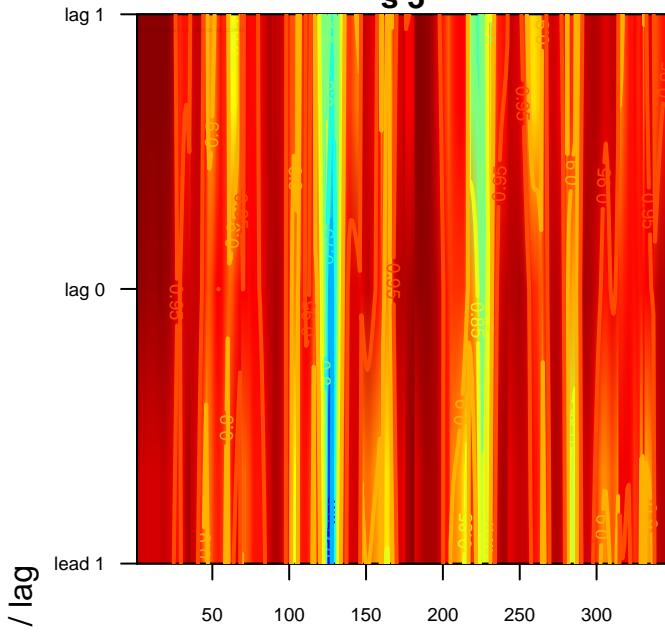
lag 0

φ

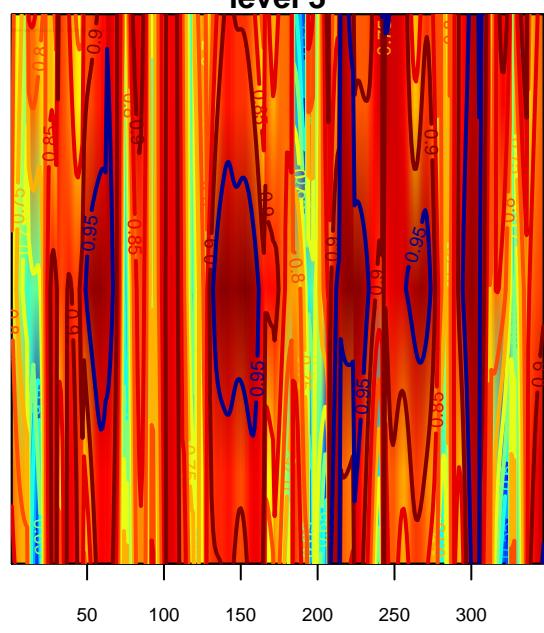


Wavelet Local Multiple Cross-Correlation

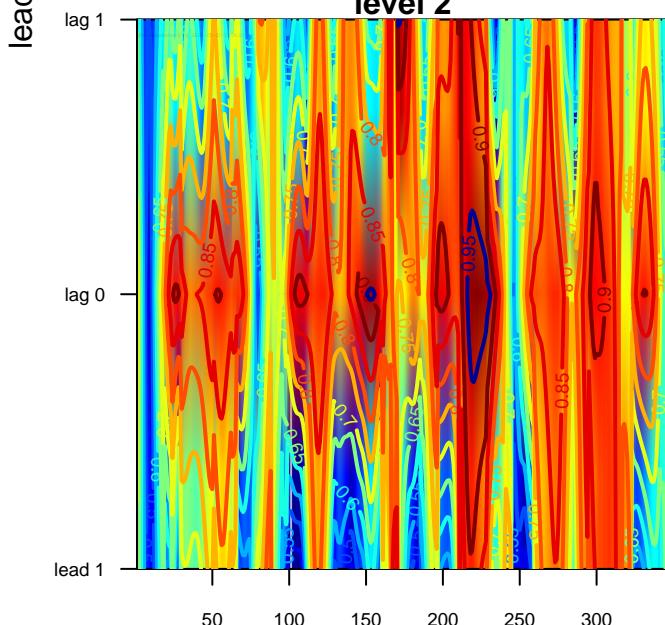
s 3



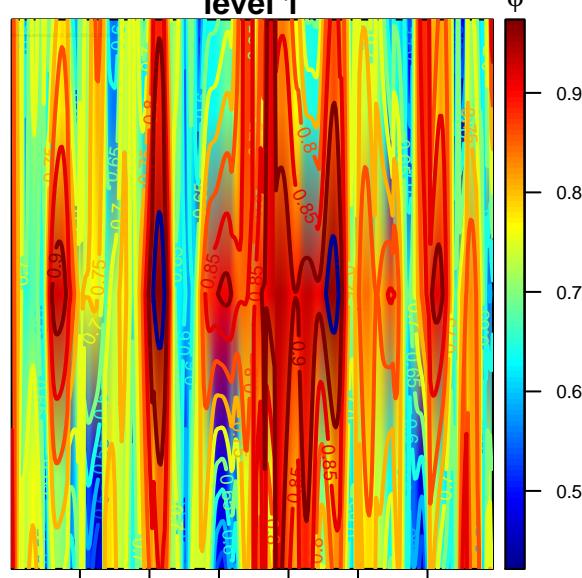
level 3



level 2

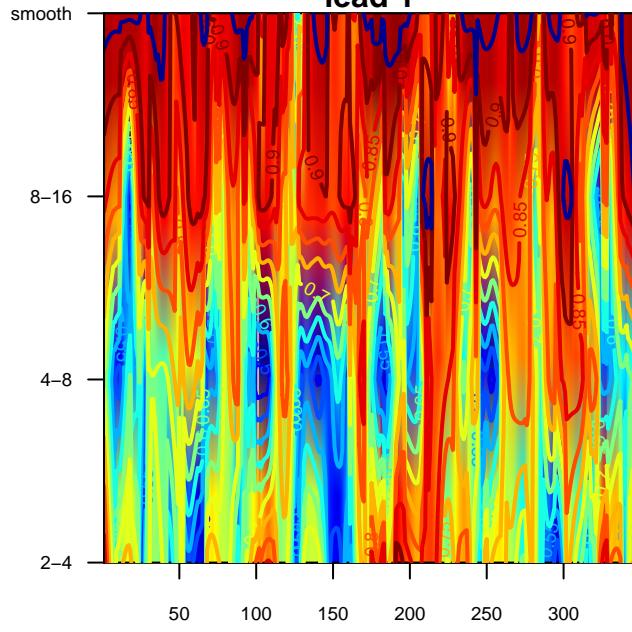


level 1

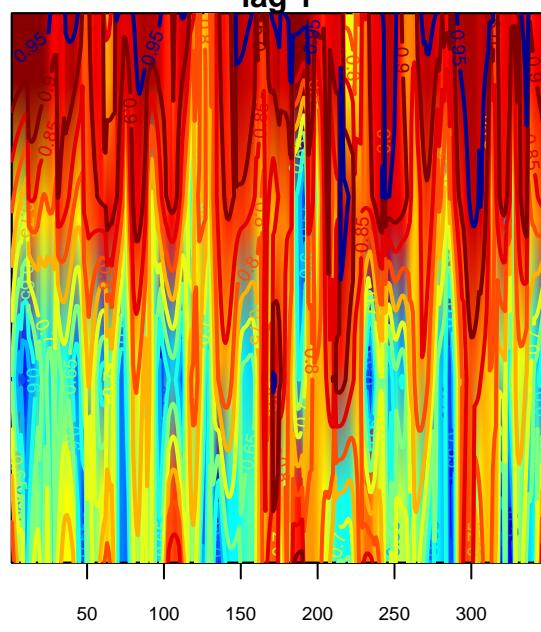


Wavelet Local Multiple Cross-Correlation

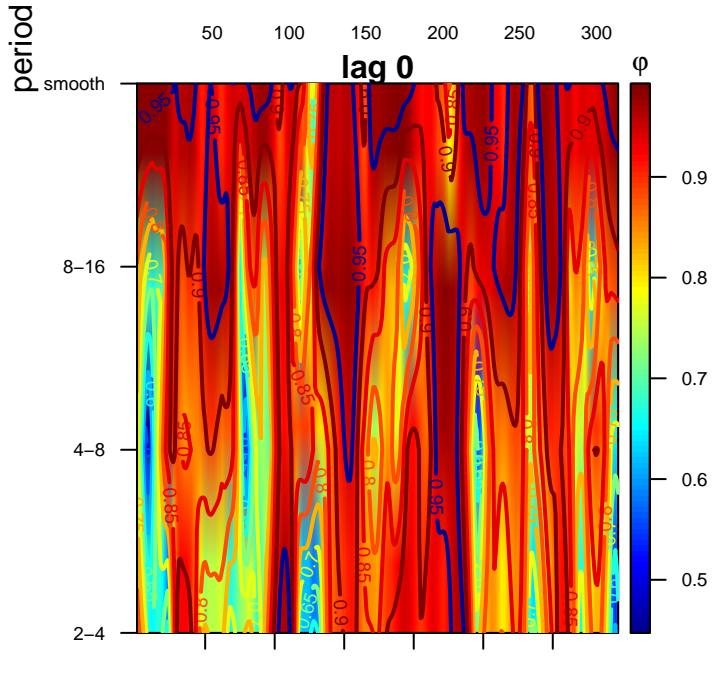
lead 1



lag 1

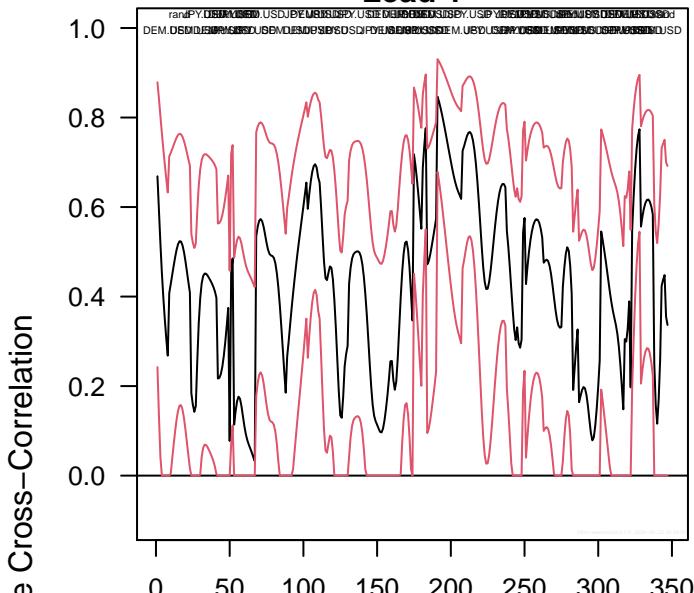


lag 0

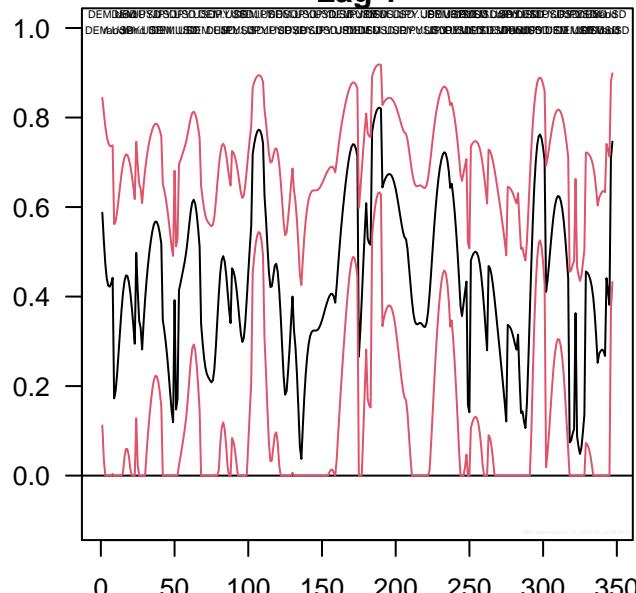




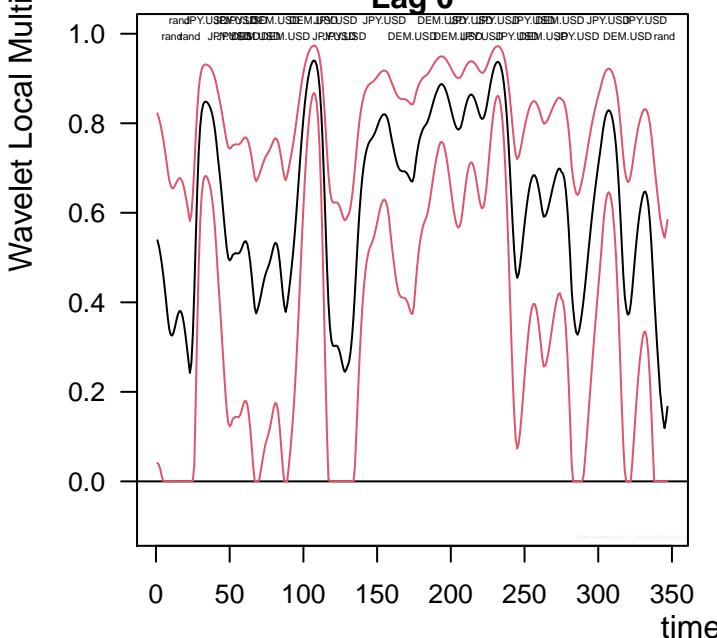
Lead 1



Lag 1



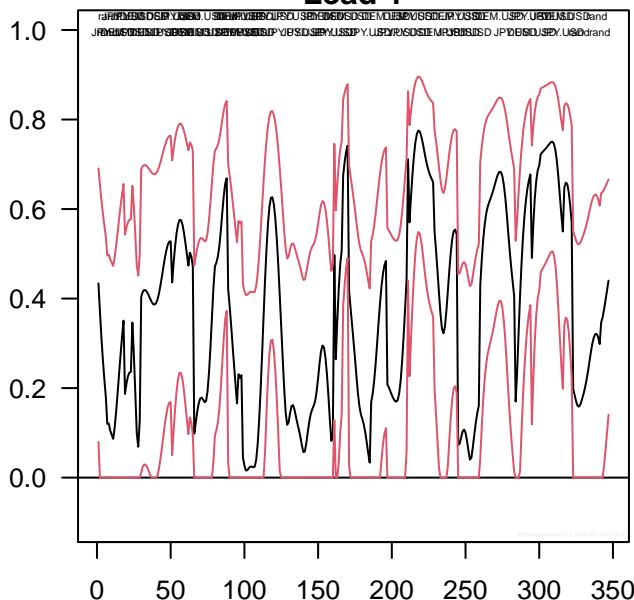
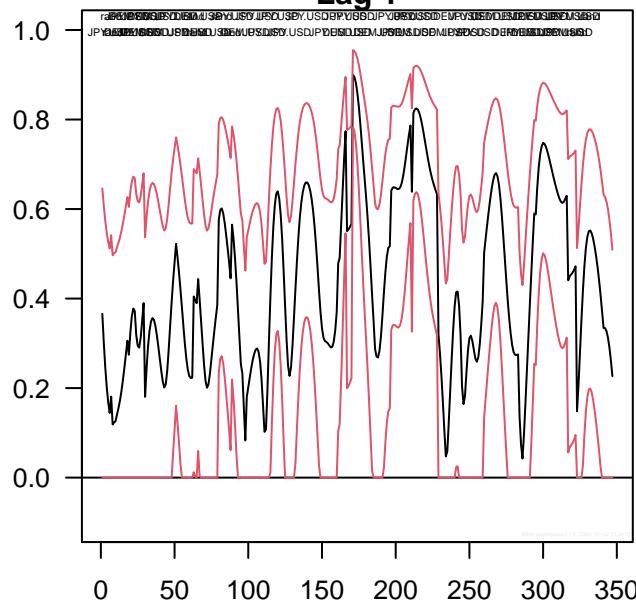
Lag 0



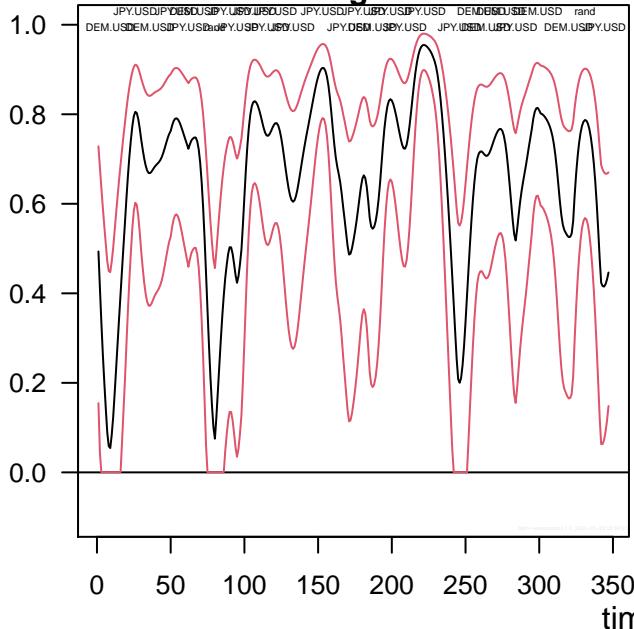
level 2

Lead 1

Wavelet Local Multiple Cross-Correlation

**Lag 1****Lag 0**

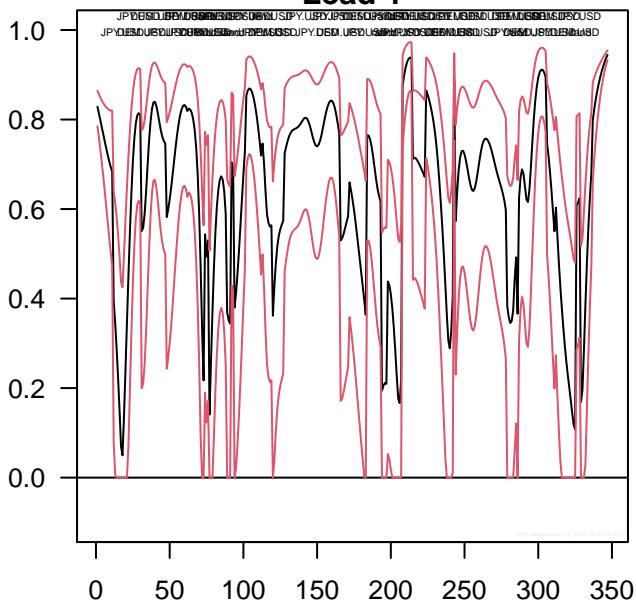
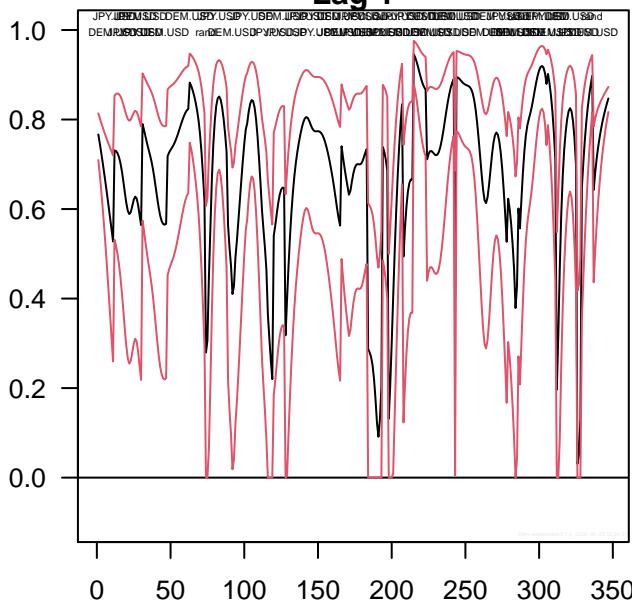
Wavelet Local Multiple Cross-Correlation



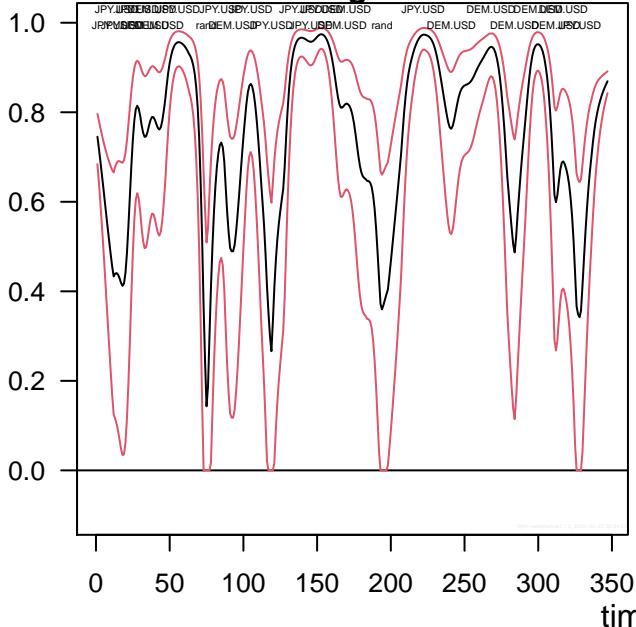
level 3

Lead 1

Wavelet Local Multiple Cross-Correlation

**Lag 1****Lag 0**

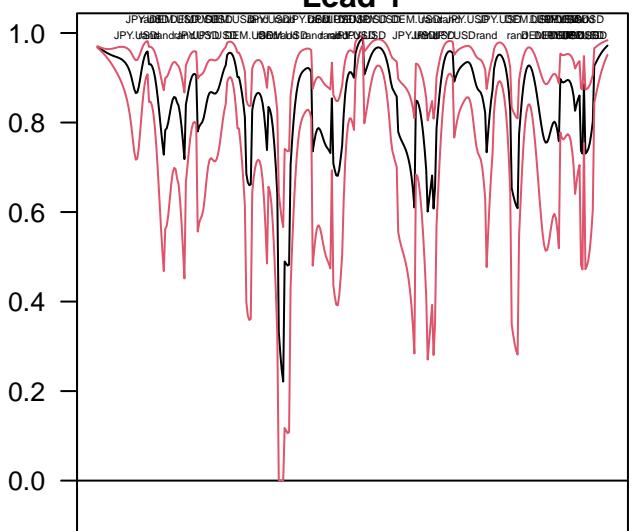
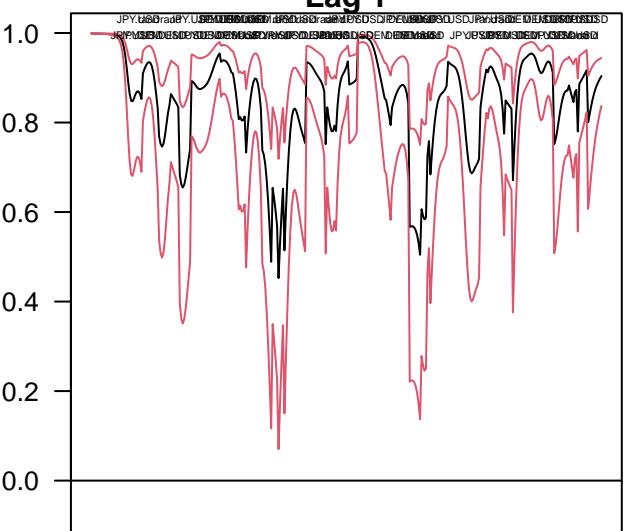
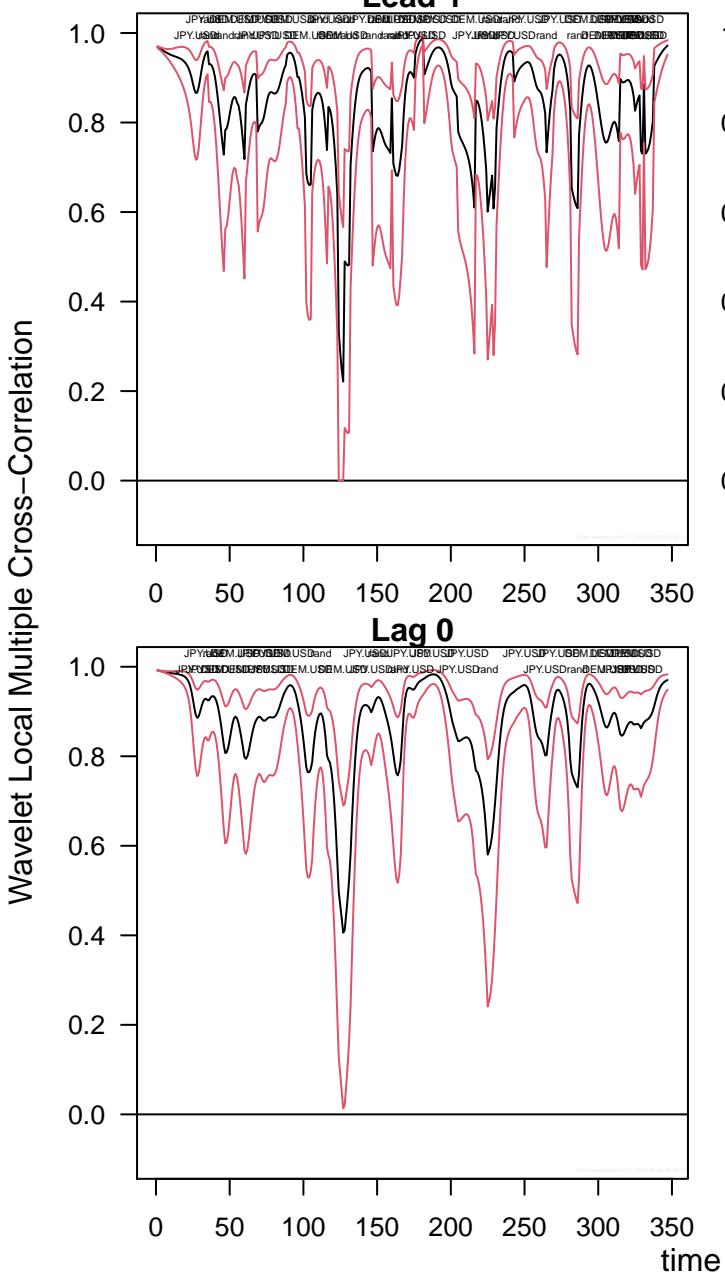
Wavelet Local Multiple Cross-Correlation

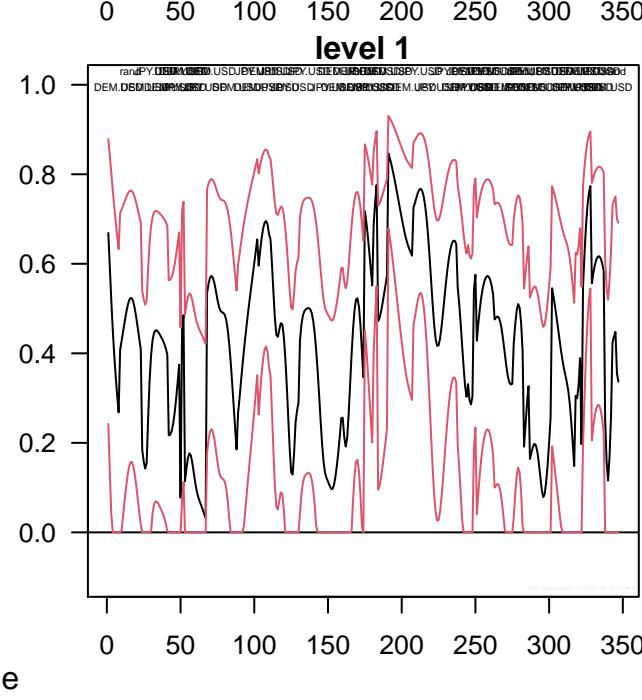
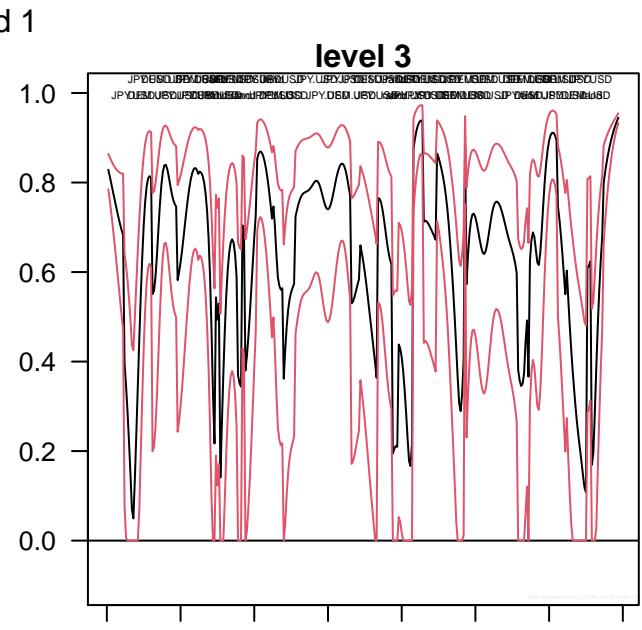
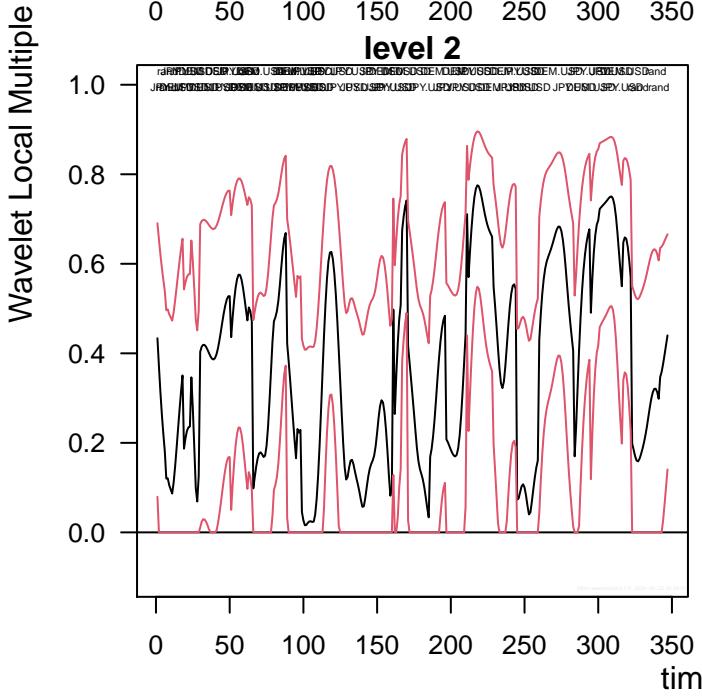
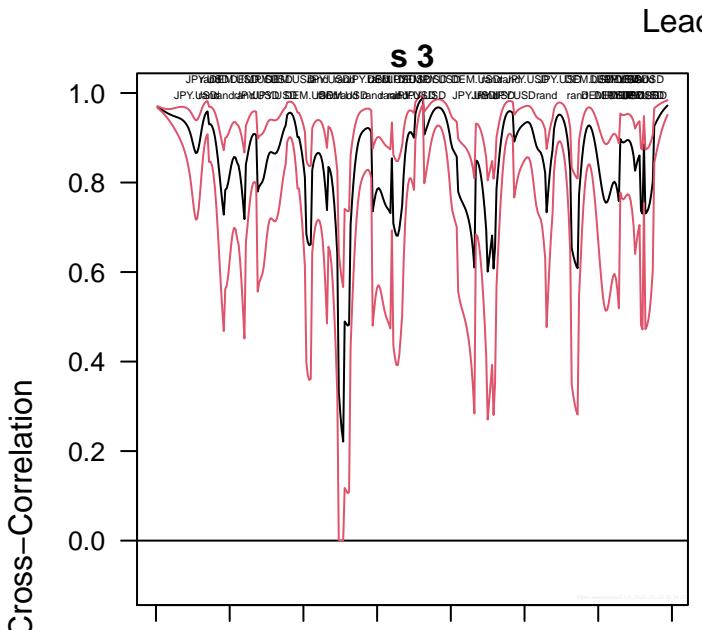


s 3

Lead 1

Wavelet Local Multiple Cross-Correlation

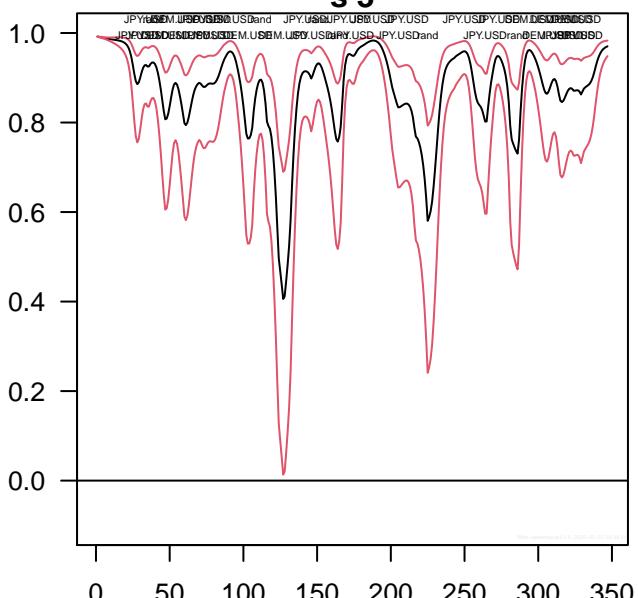
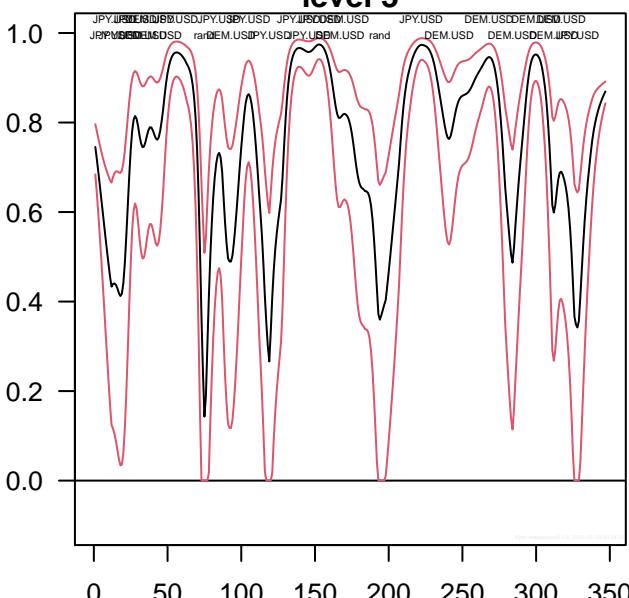
**Lag 1****Lag 0**



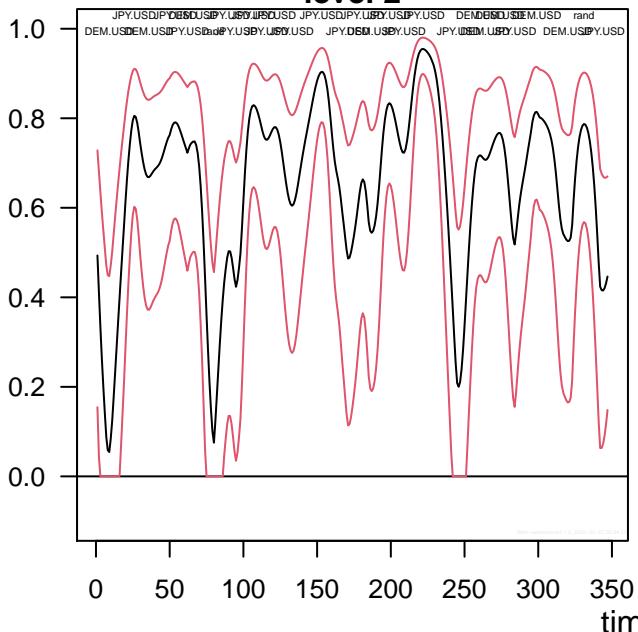
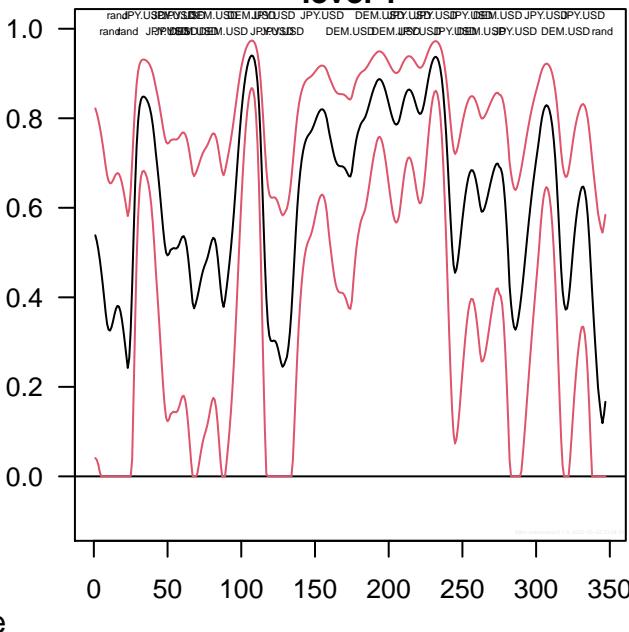
Lag 0

s 3

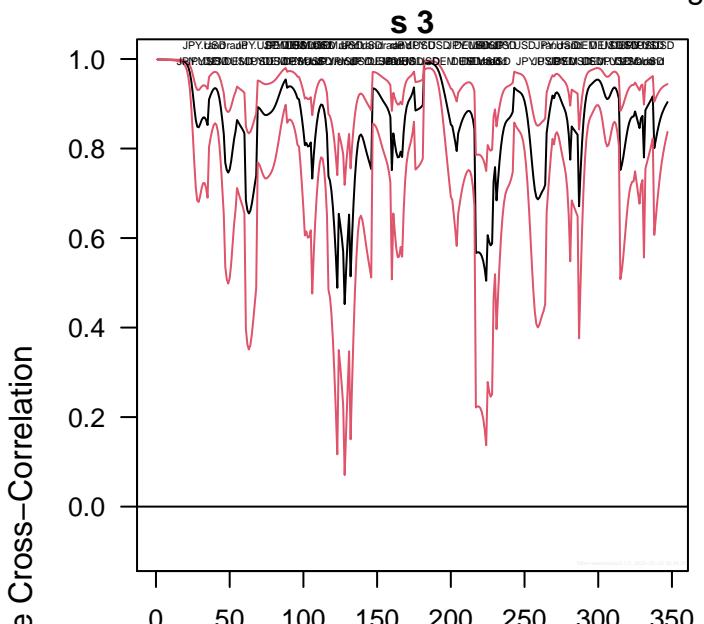
Wavelet Local Multiple Cross-Correlation

**level 3****level 2**

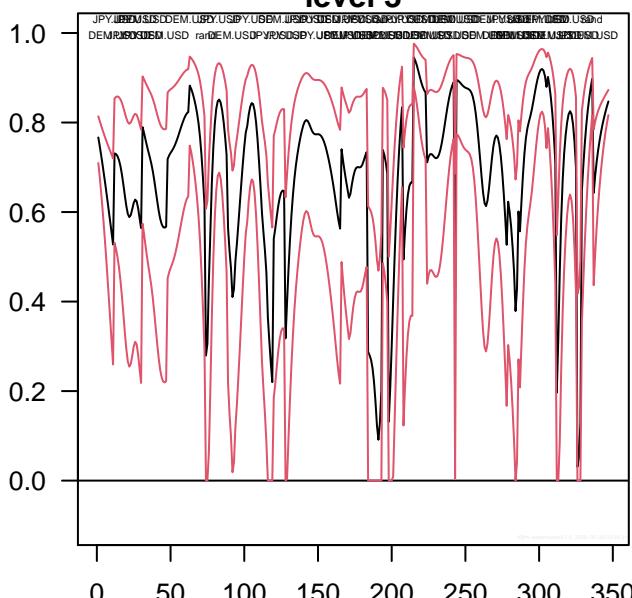
Wavelet Local Multiple Cross-Correlation

**level 1**

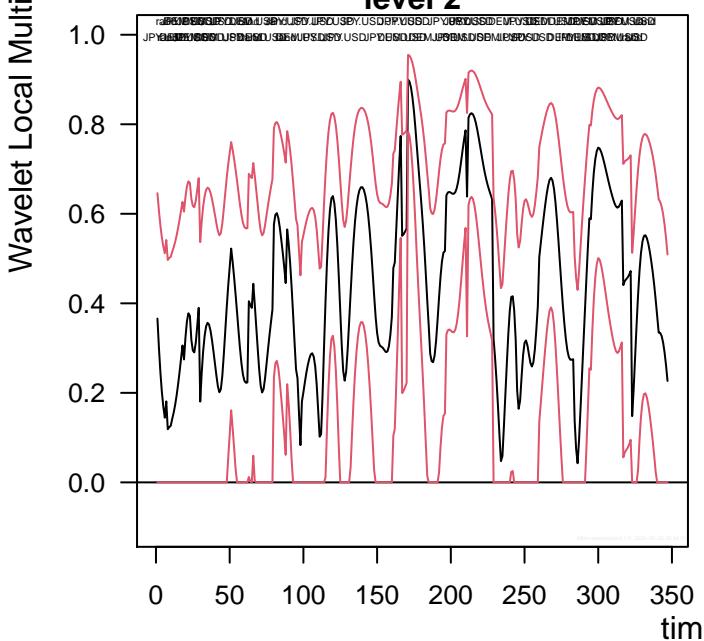
Lag 1



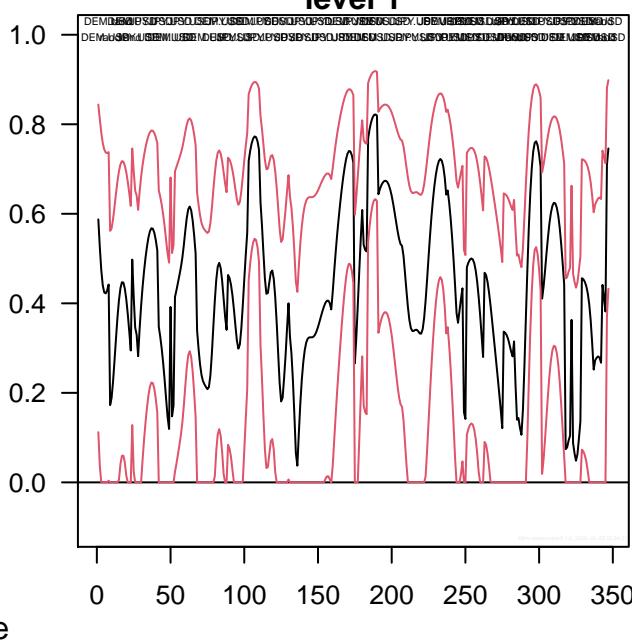
level 3



level 2



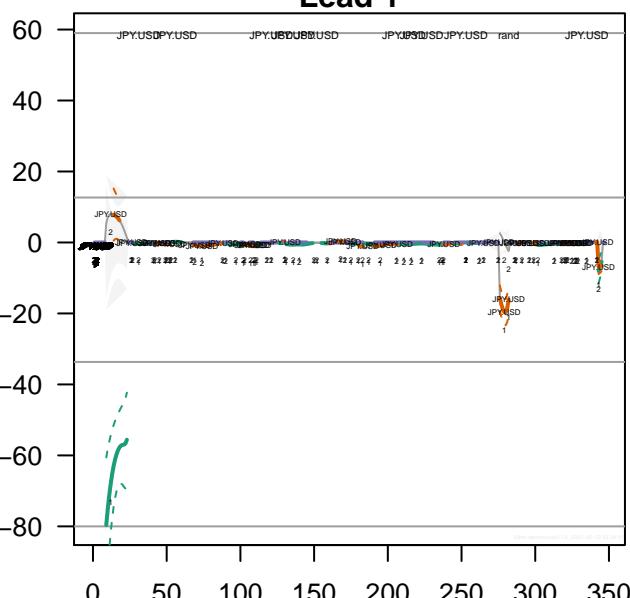
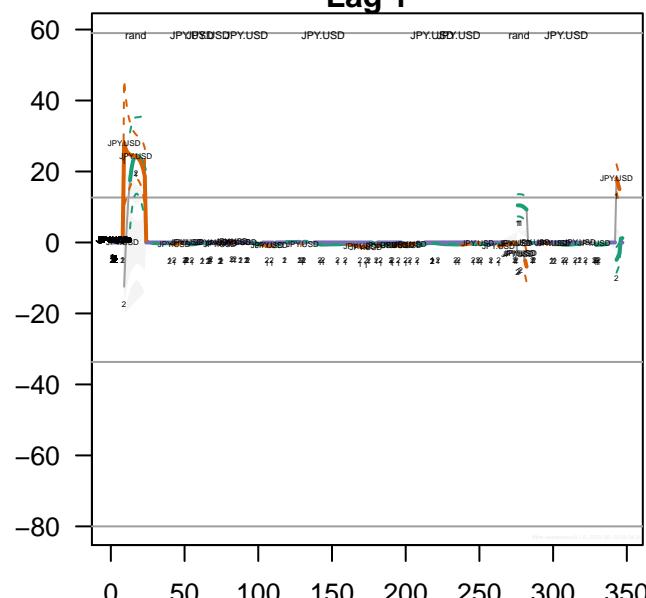
level 1



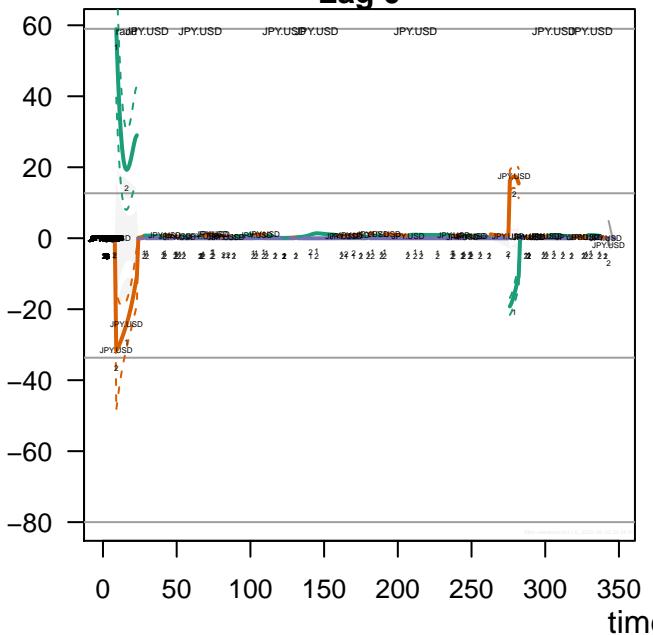
level 1

Lead 1

Wavelet Local Multiple Cross-Regression

**Lag 1****Lag 0**

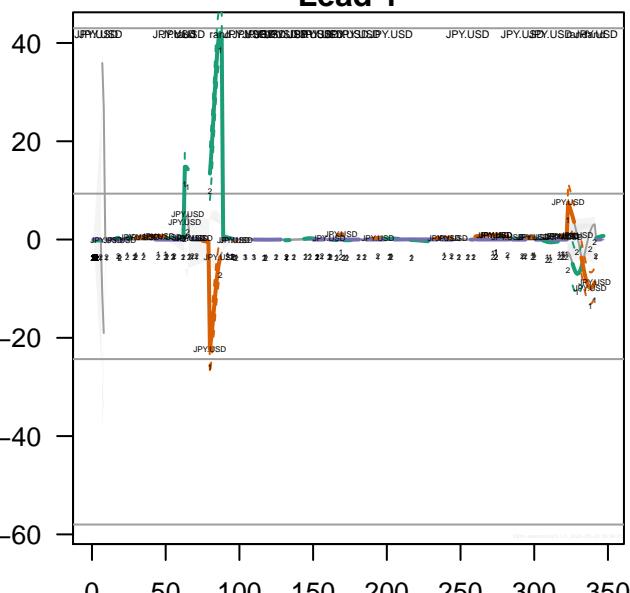
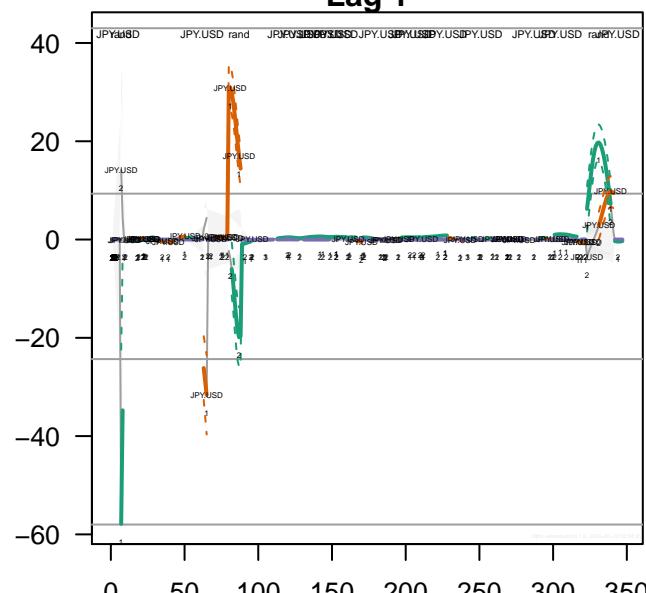
Wavelet Local Multiple Cross-Regression



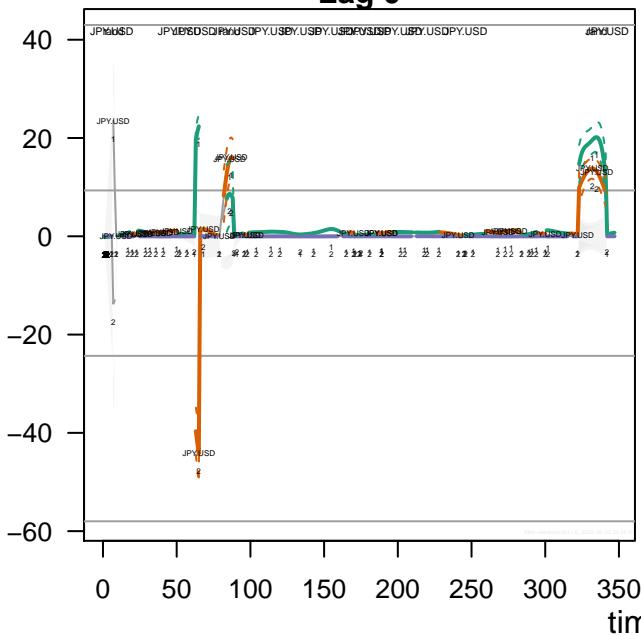
level 2

Lead 1

Wavelet Local Multiple Cross-Regression

**Lag 1****Lag 0**

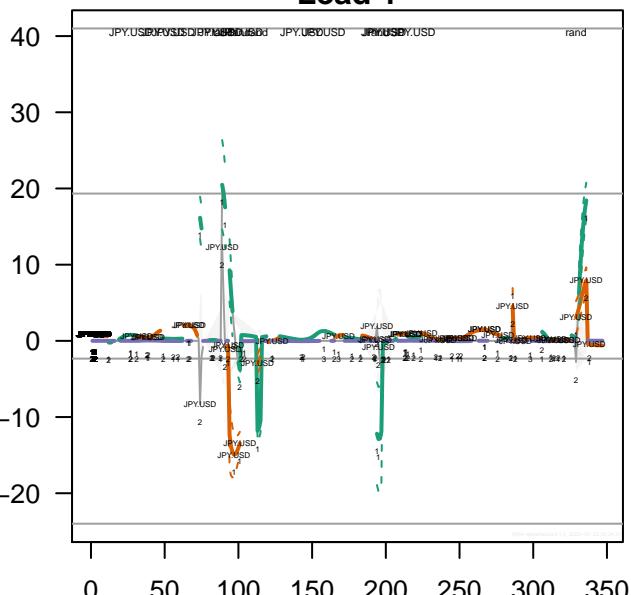
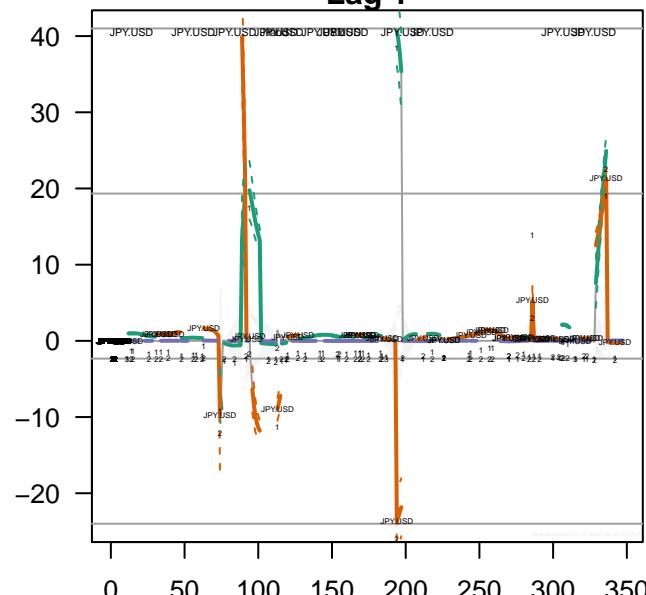
Wavelet Local Multiple Cross-Regression



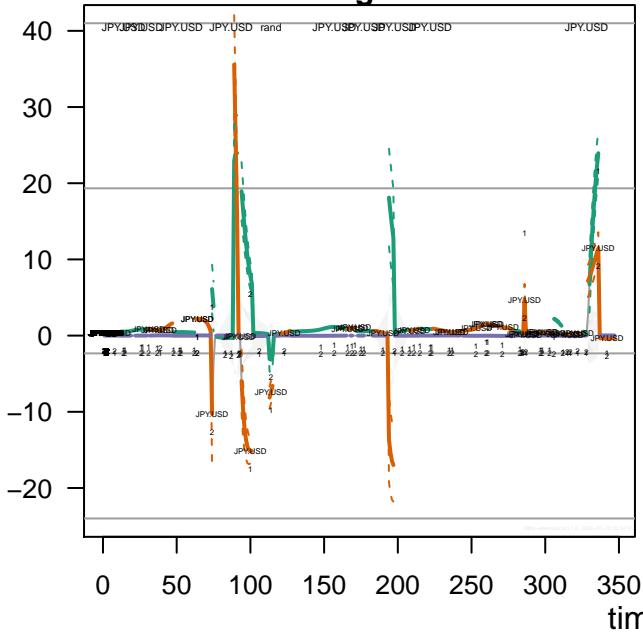
level 3

Lead 1

Wavelet Local Multiple Cross-Regression

**Lag 1****Lag 0**

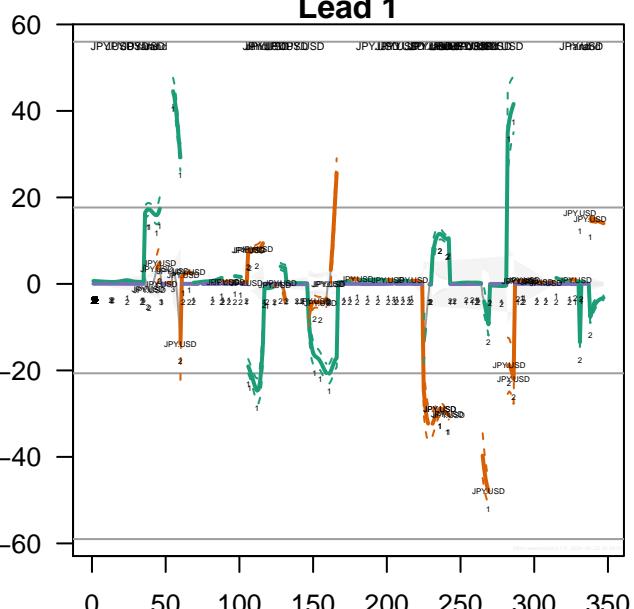
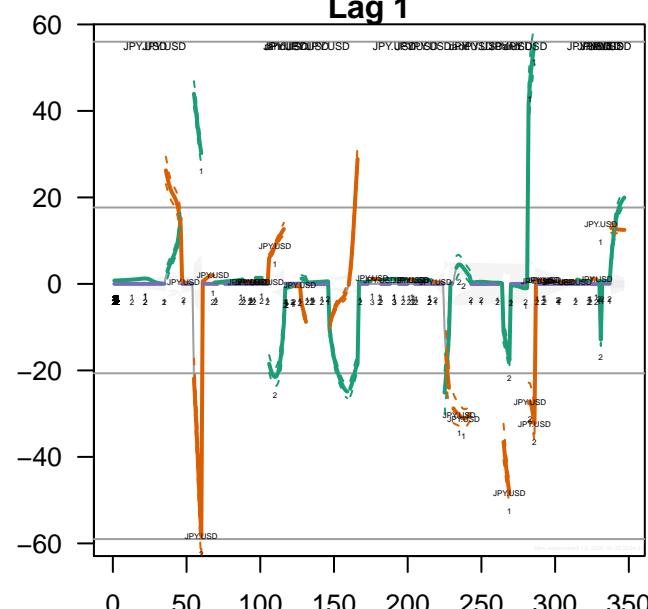
Wavelet Local Multiple Cross-Regression



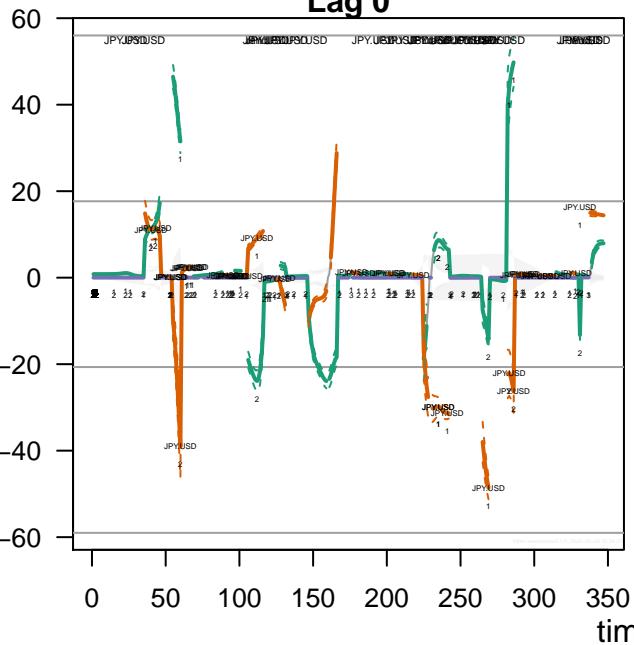
s 3

Lead 1

Wavelet Local Multiple Cross-Regression

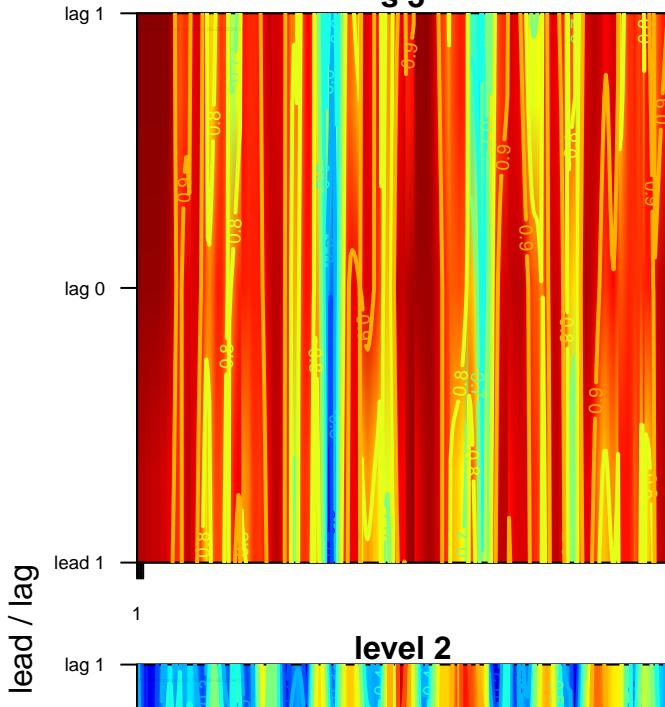
**Lag 1****Lag 0**

Wavelet Local Multiple Cross-Regression

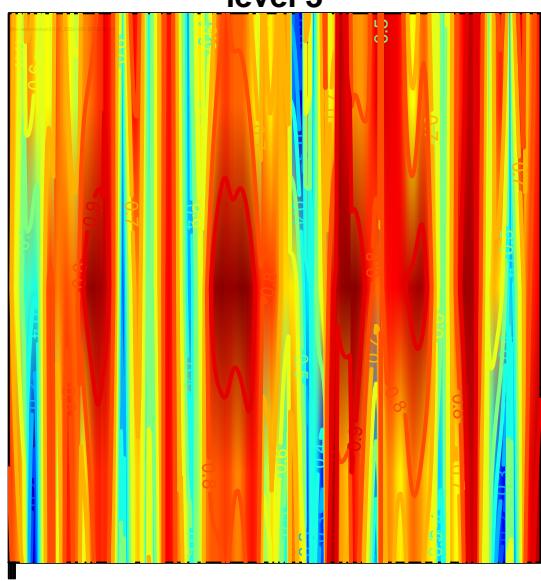


Wavelet Local Multiple Cross-Correlation

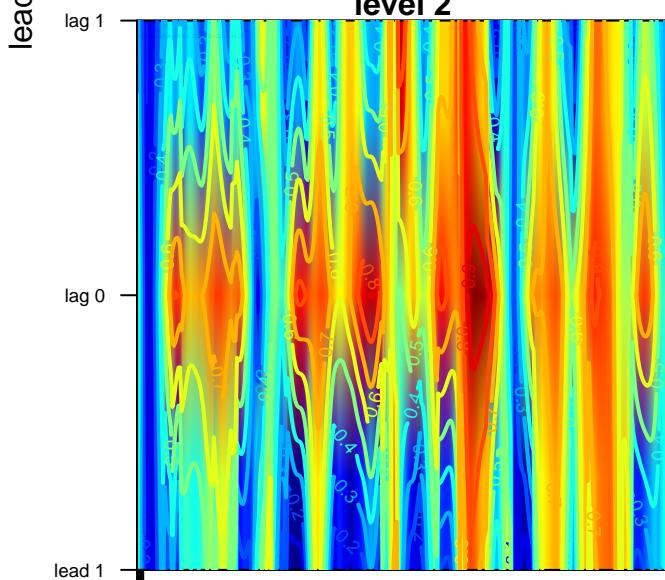
s 3



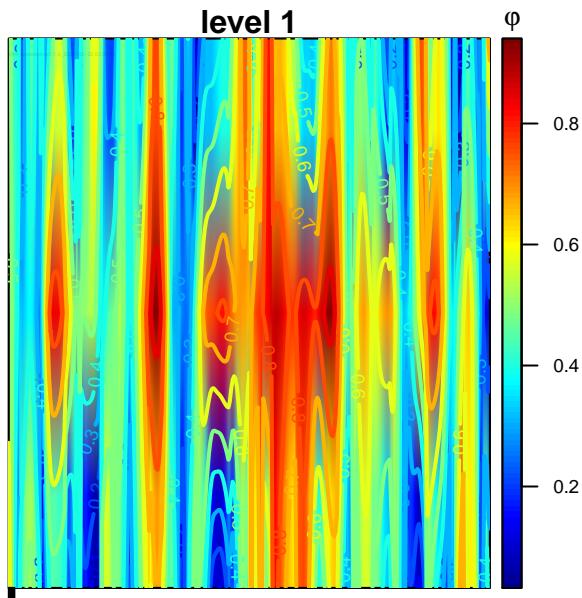
level 3



level 2

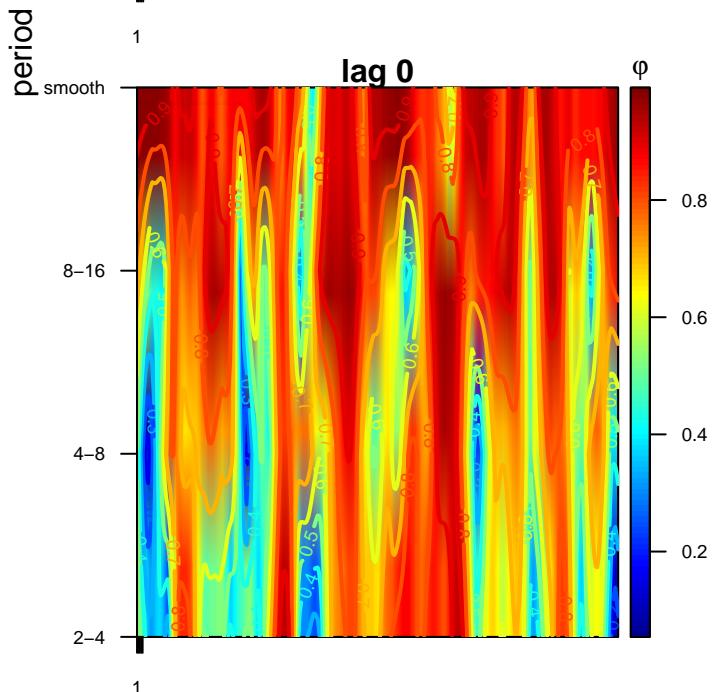
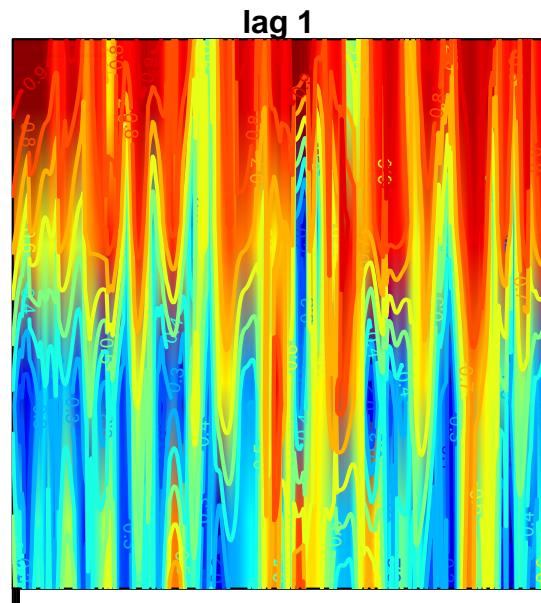
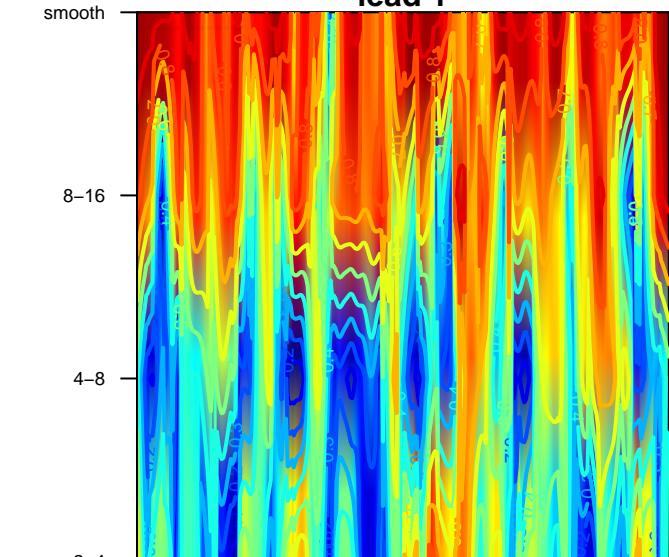


level 1

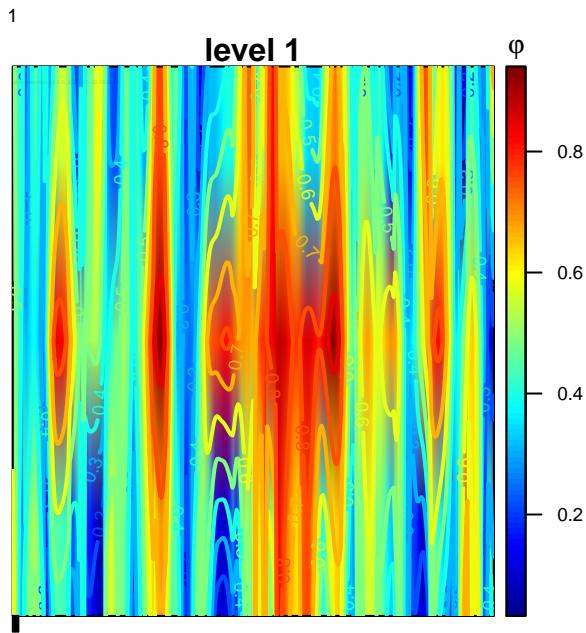
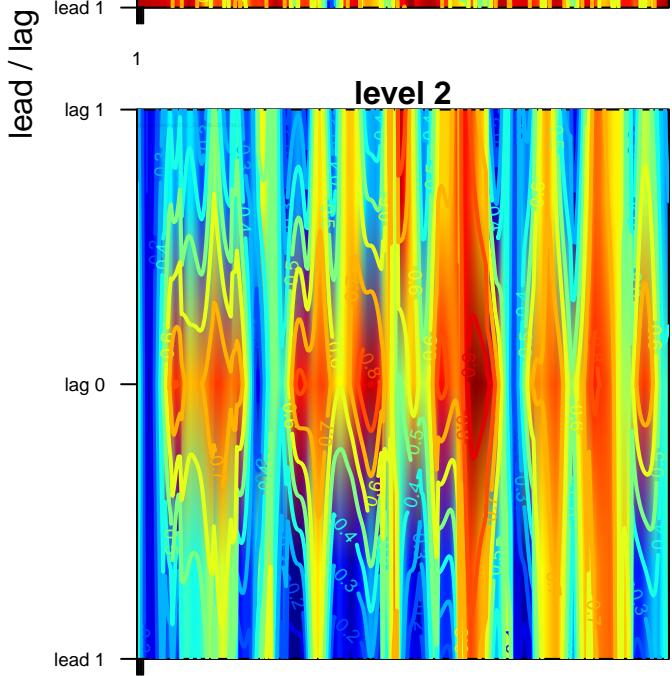
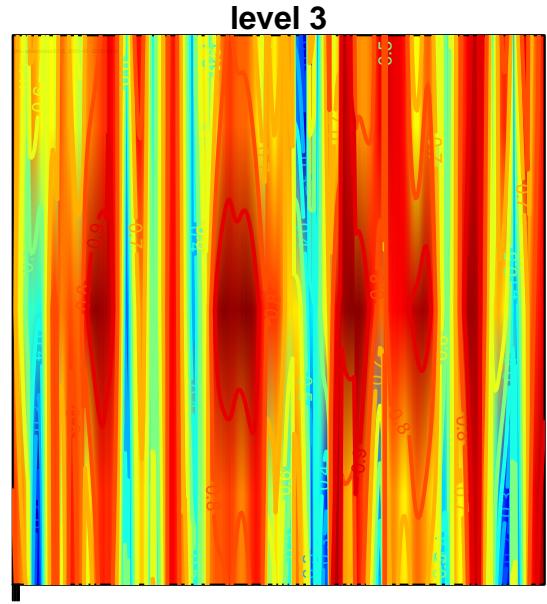
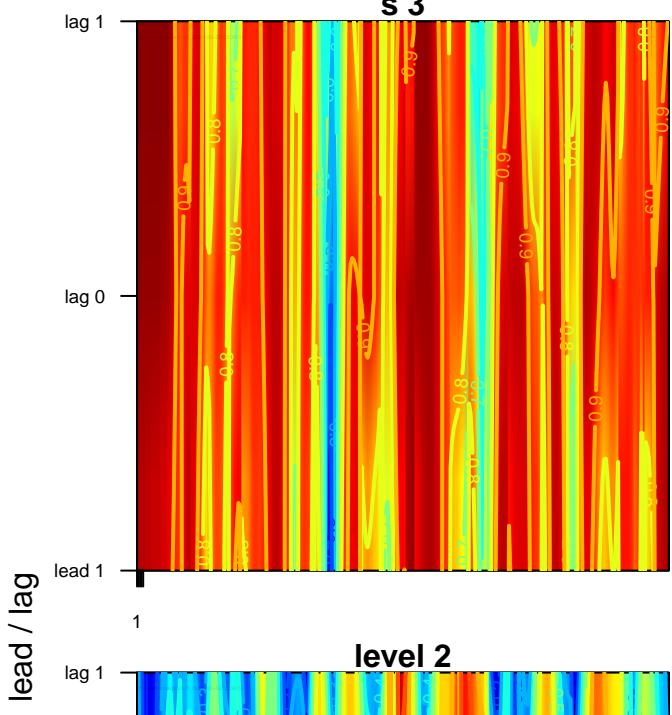


Wavelet Local Multiple Cross-Correlation

lead 1

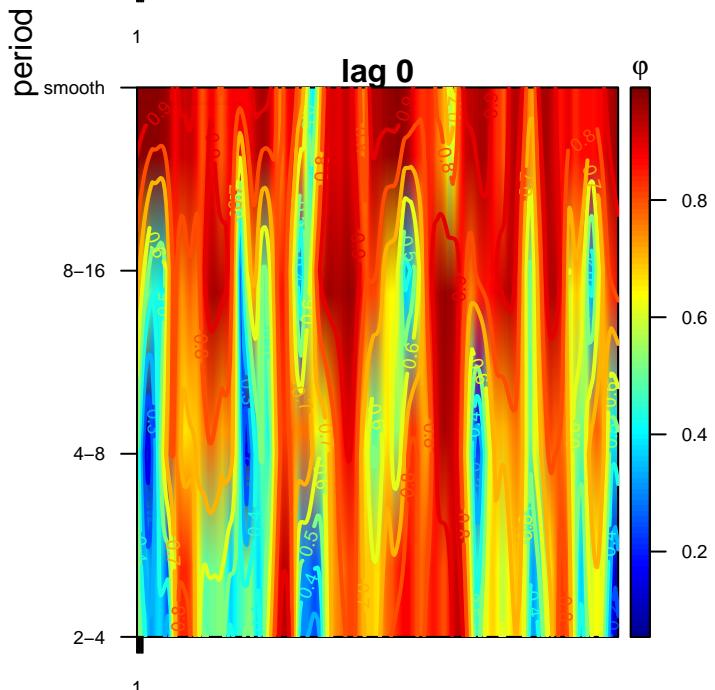
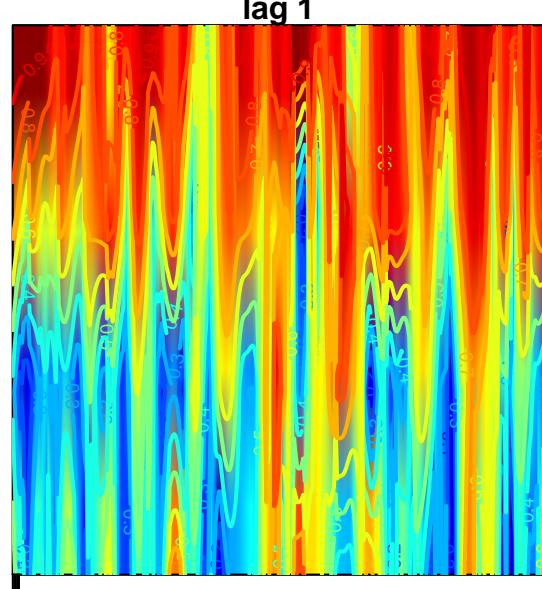
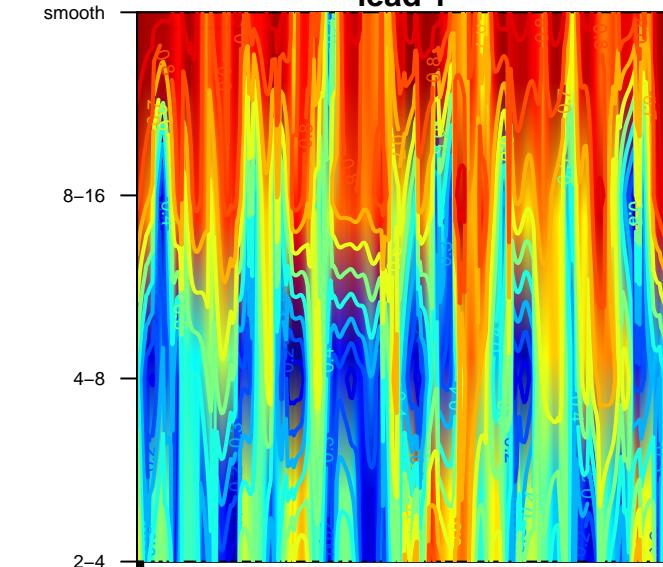


Wavelet Local Multiple Cross-Correlation



Wavelet Local Multiple Cross-Correlation

lead 1



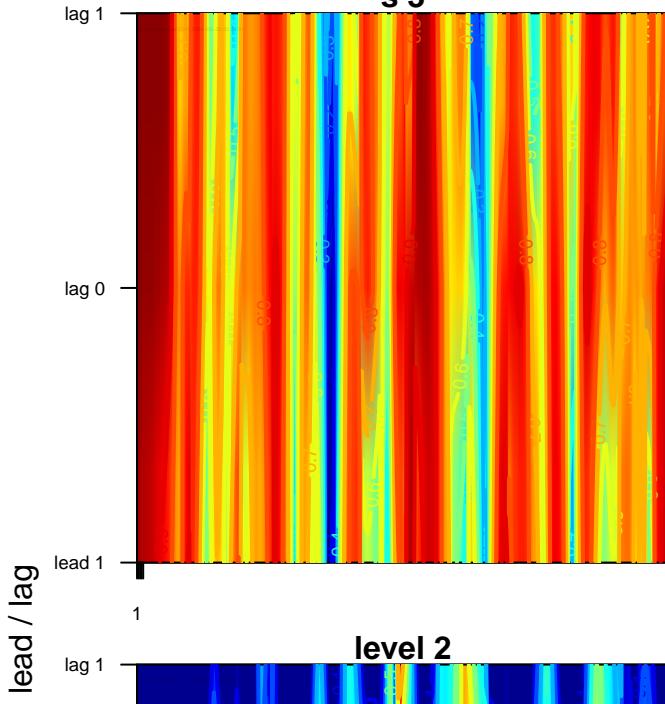
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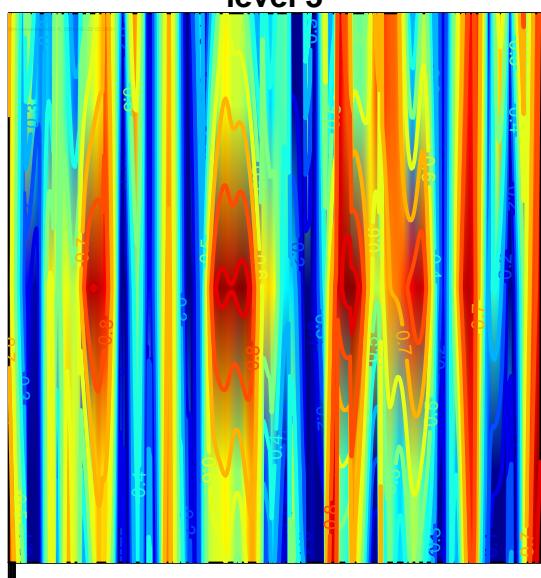
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Wavelet Local Multiple Cross-Correlation

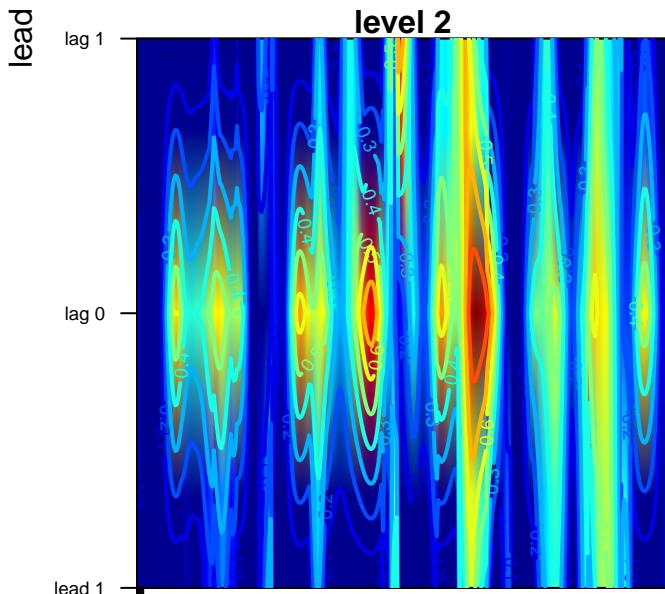
s 3



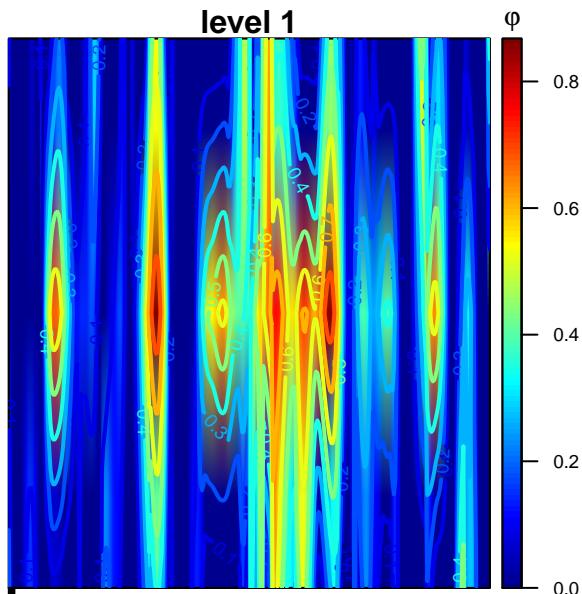
level 3



level 2



level 1

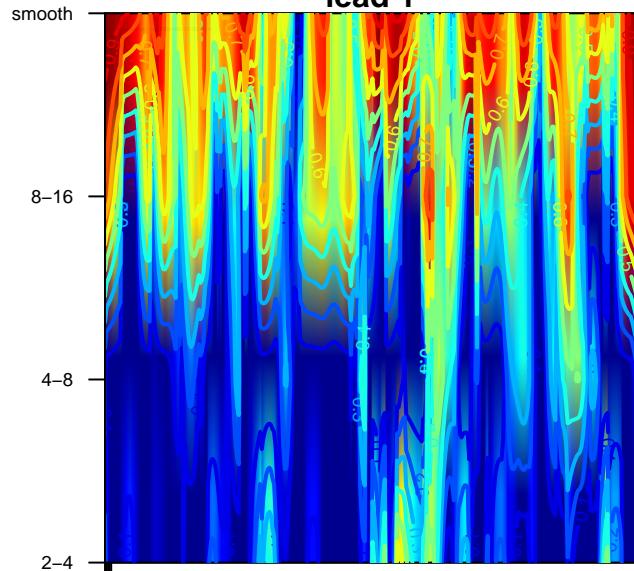


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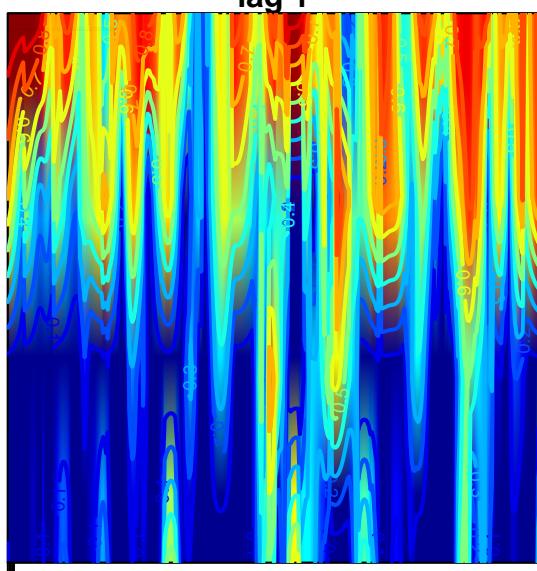
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Wavelet Local Multiple Cross-Correlation

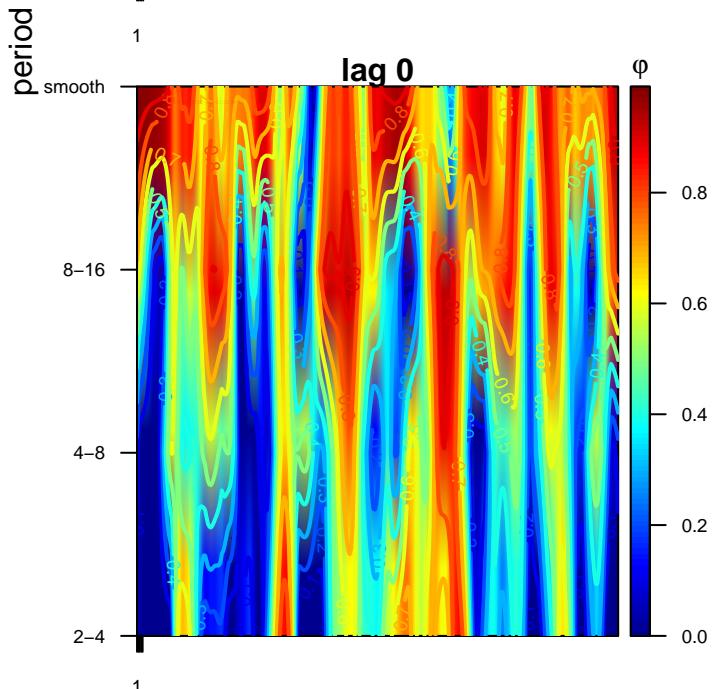
lead 1



lag 1

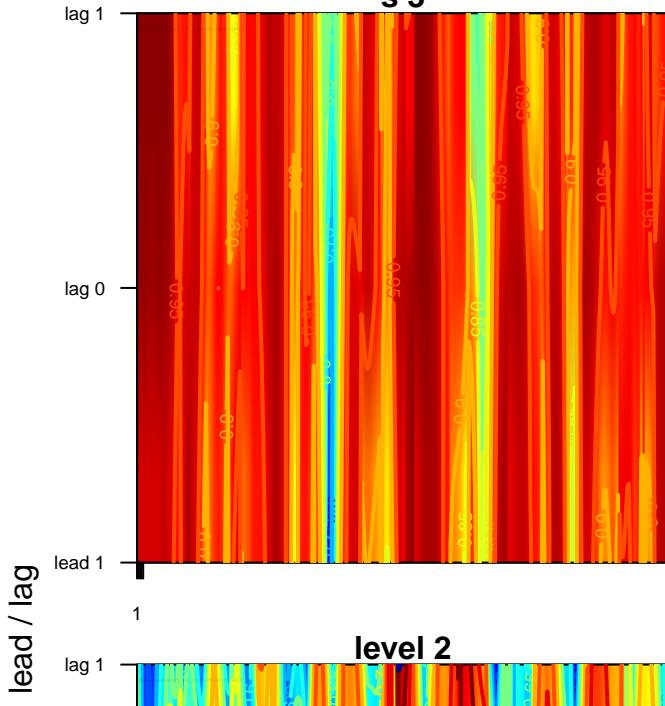


lag 0

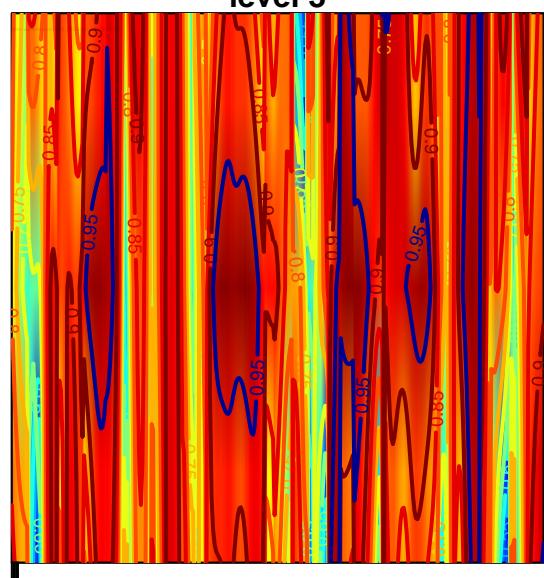


Wavelet Local Multiple Cross-Correlation

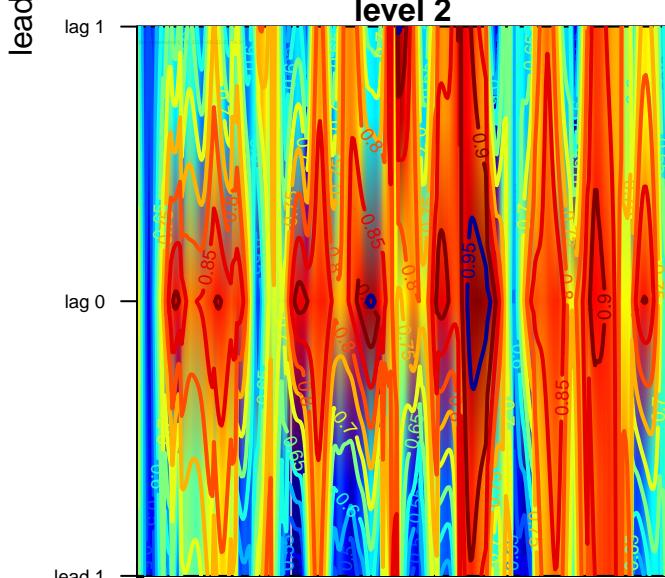
s 3



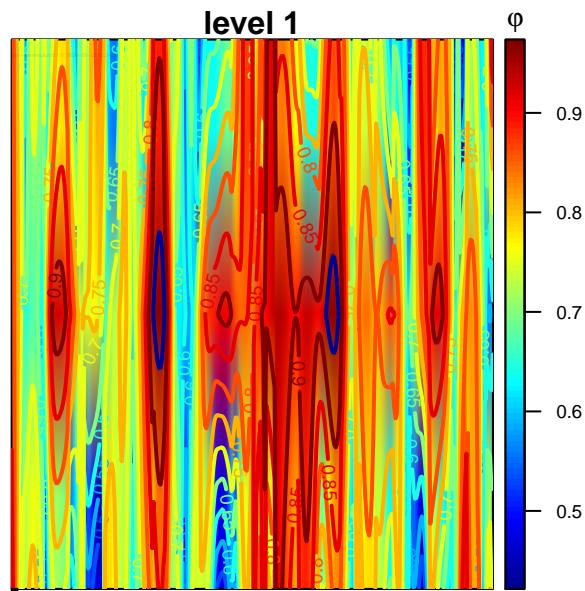
level 3



level 2

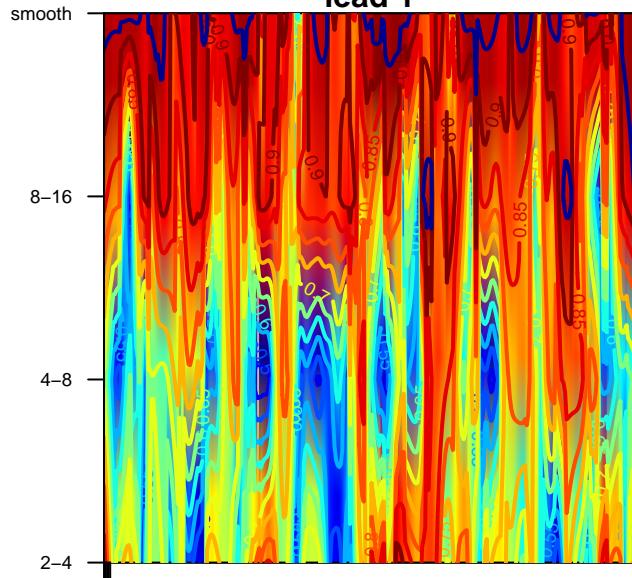


level 1

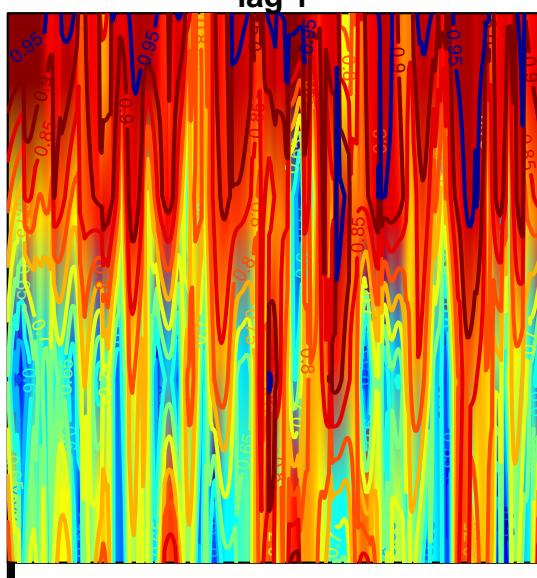


Wavelet Local Multiple Cross-Correlation

lead 1

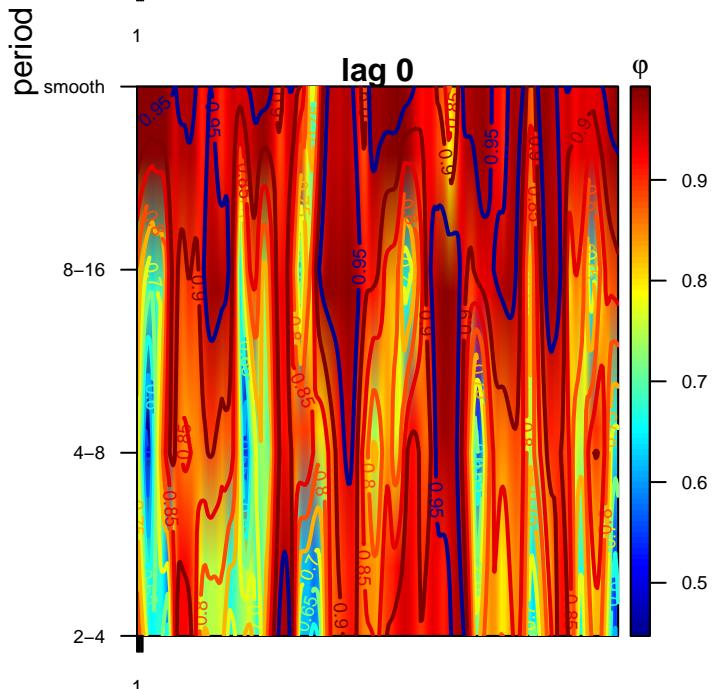


lag 1



lag 0

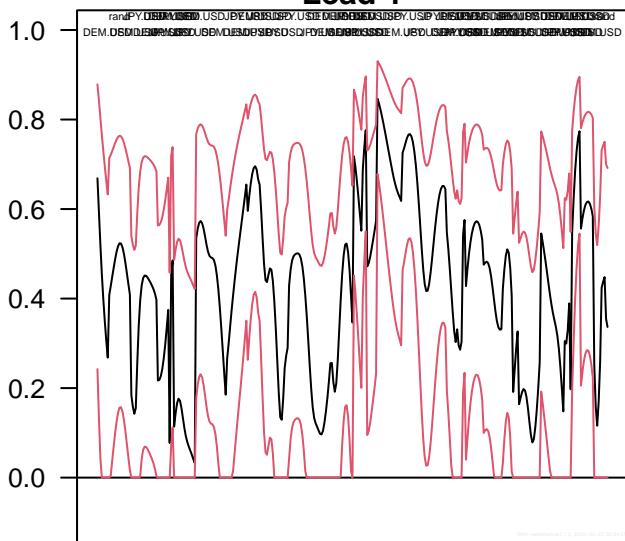
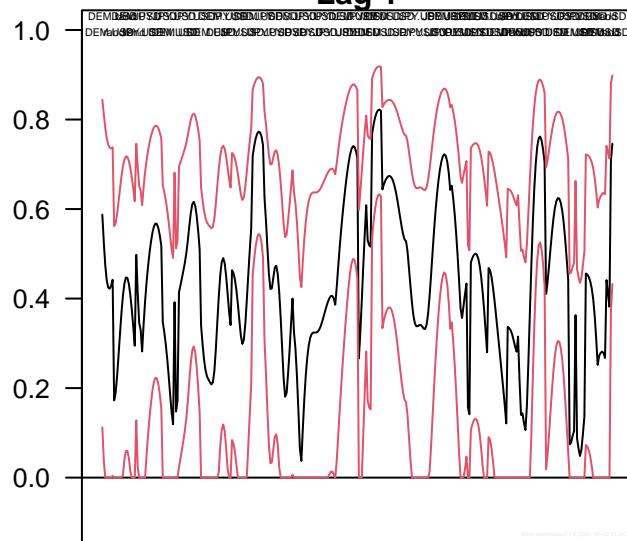
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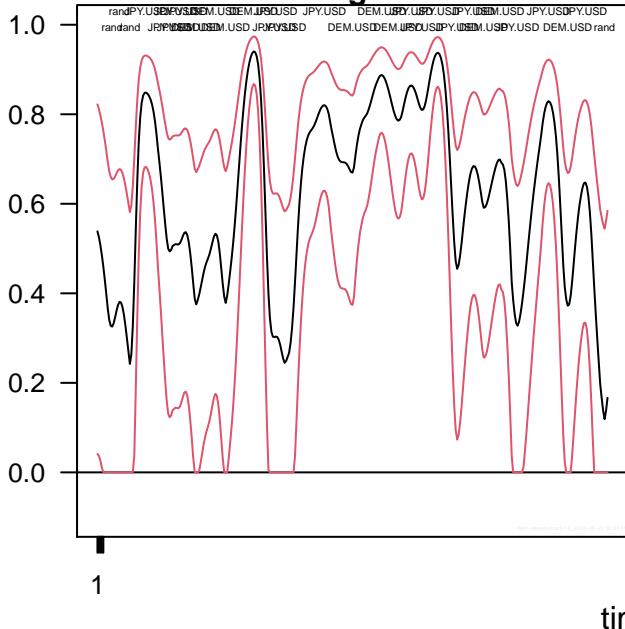
level 1

Lead 1

Wavelet Local Multiple Cross-Correlation

**Lag 1****Lag 0**

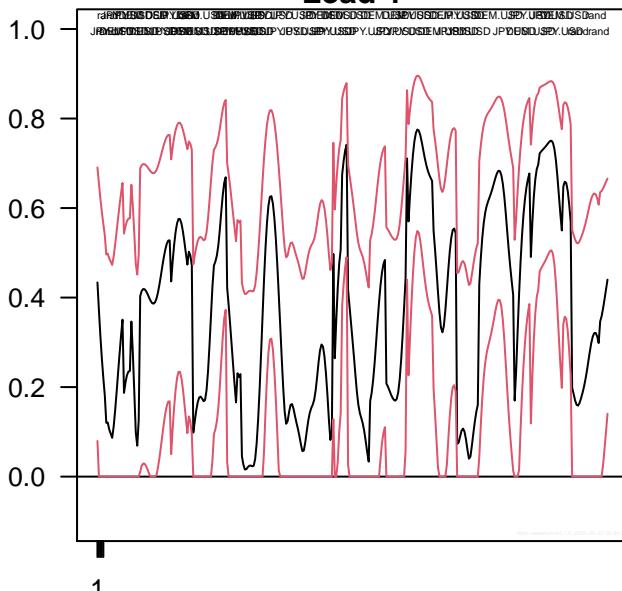
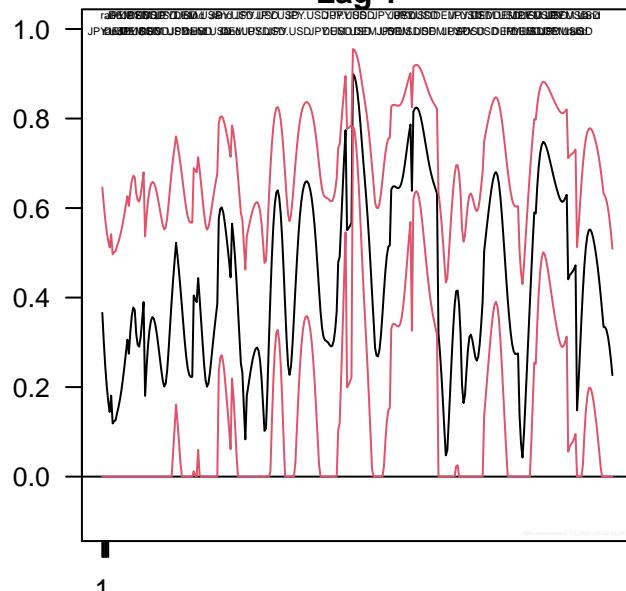
Wavelet Local Multiple Cross-Correlation



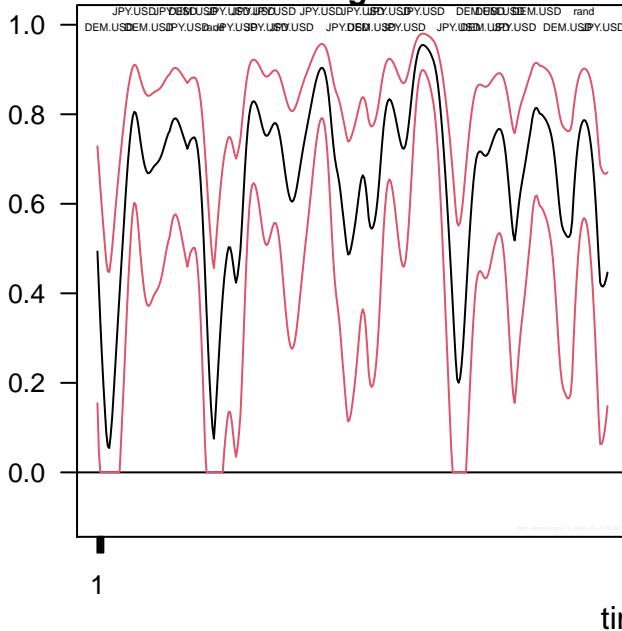
level 2

Lead 1

Wavelet Local Multiple Cross-Correlation

**Lag 1****Lag 0**

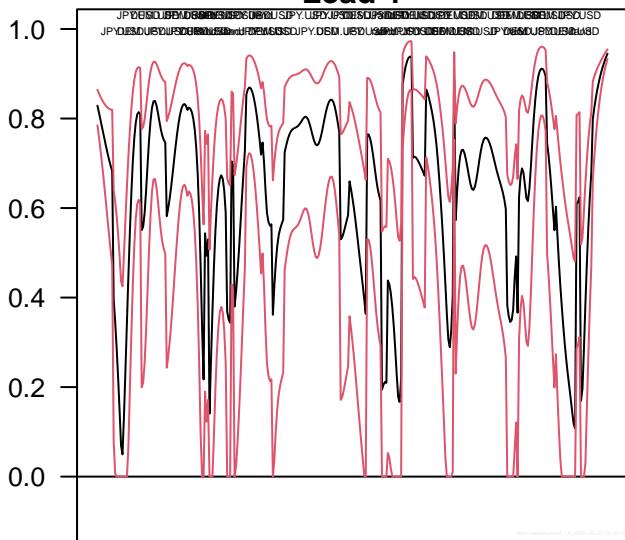
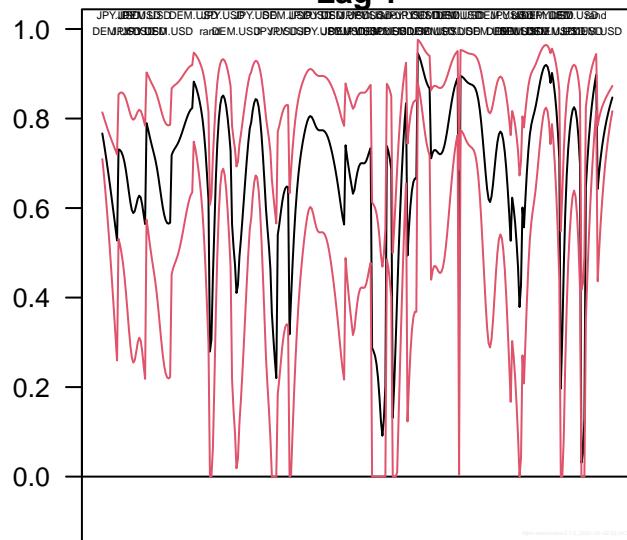
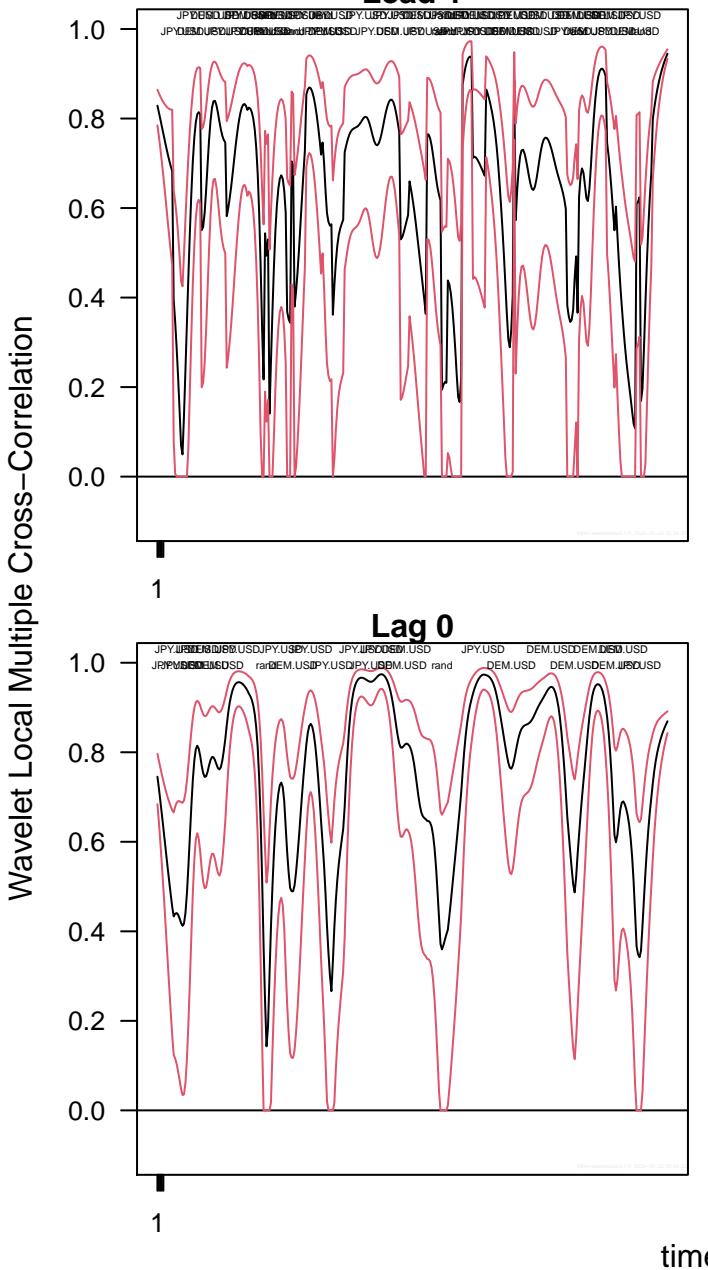
Wavelet Local Multiple Cross-Correlation



level 3

Lead 1

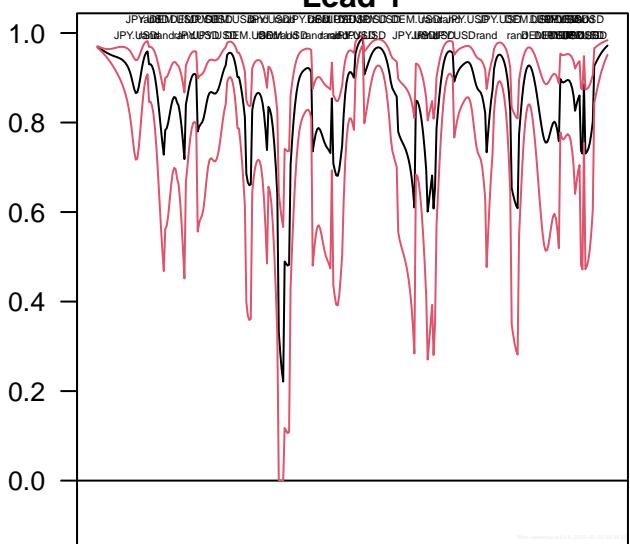
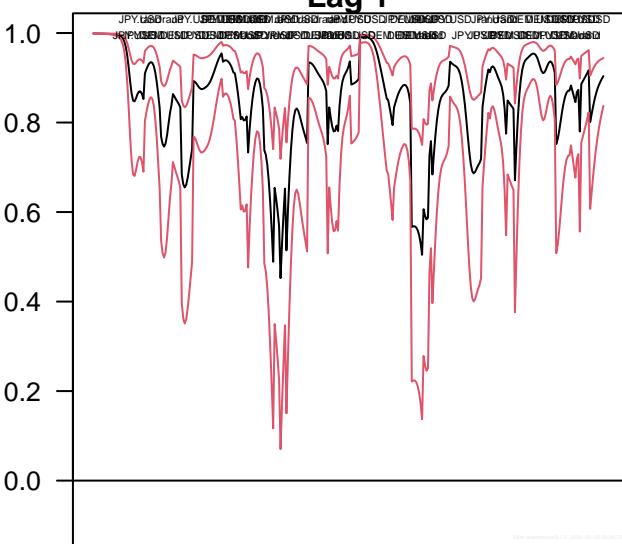
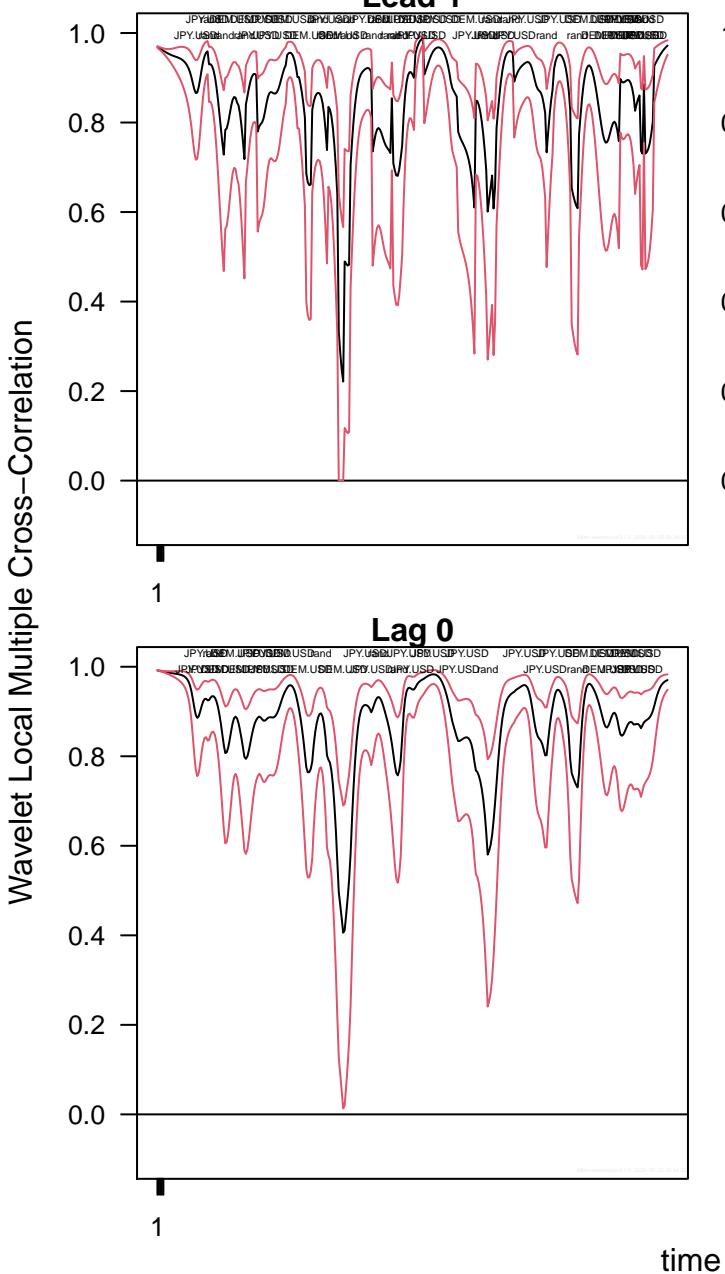
Wavelet Local Multiple Cross-Correlation

**Lag 1****Lag 0**

s 3

Lead 1

Wavelet Local Multiple Cross-Correlation

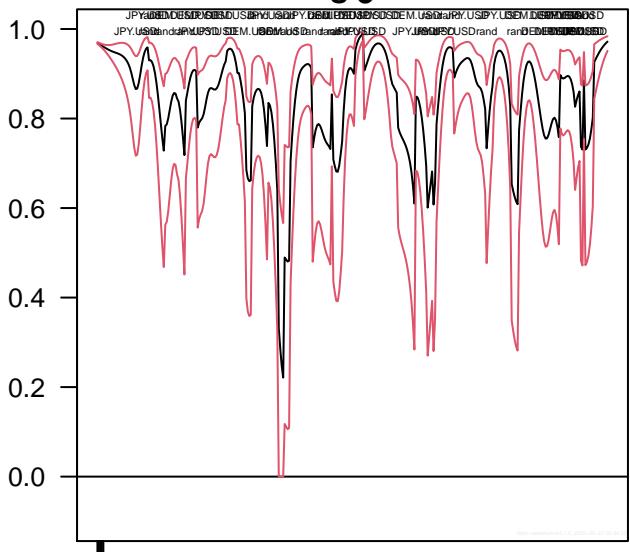
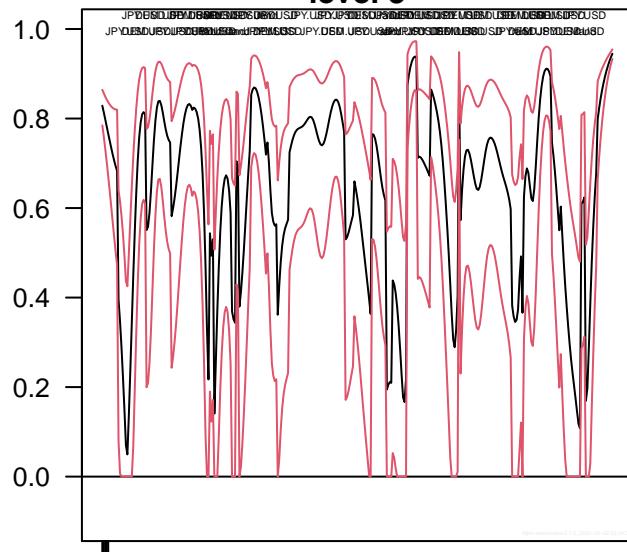
**Lag 1****Lag 0**

time

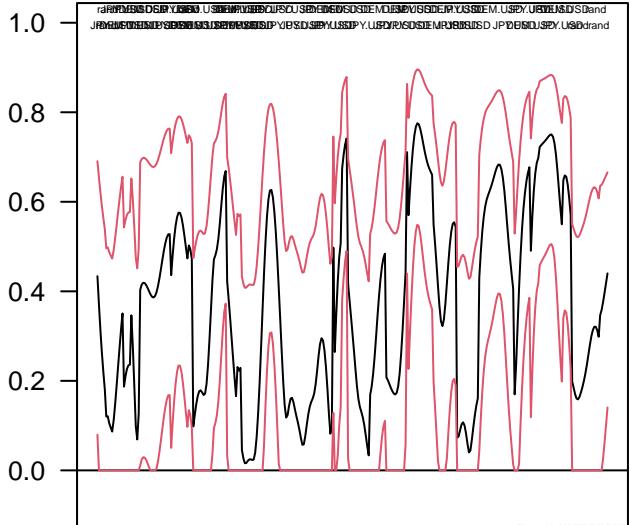
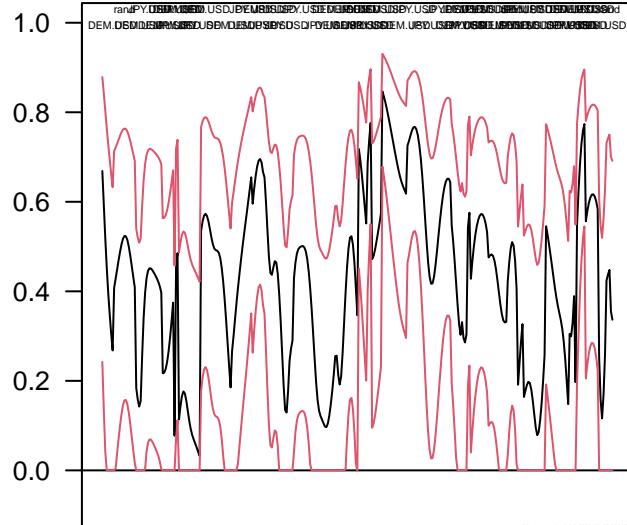
Lead 1

s 3

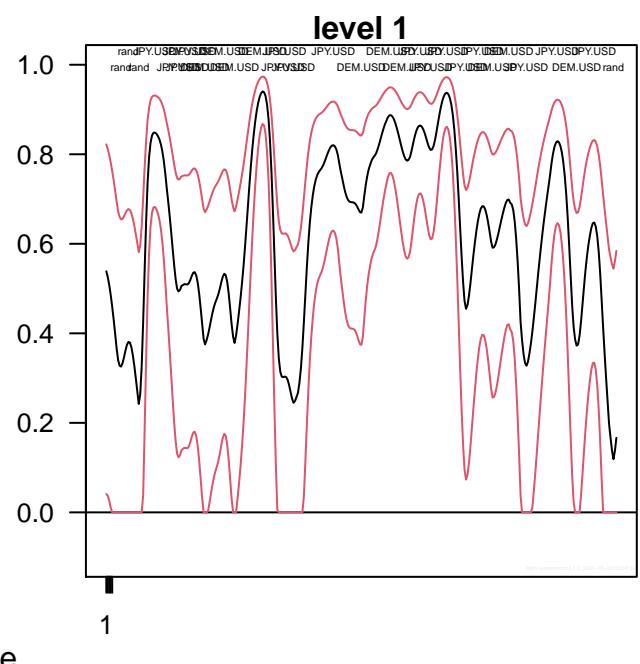
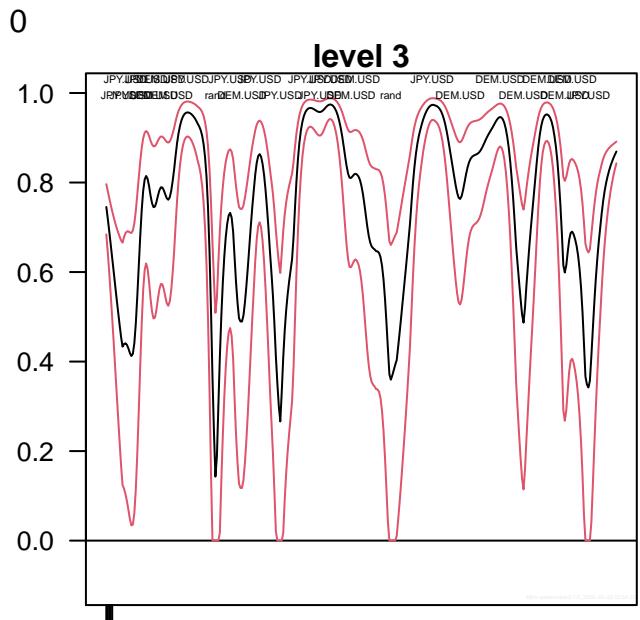
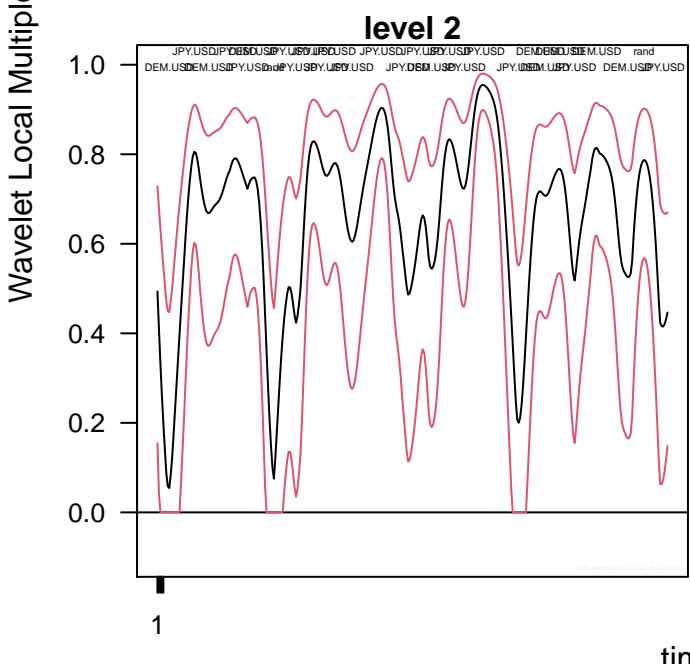
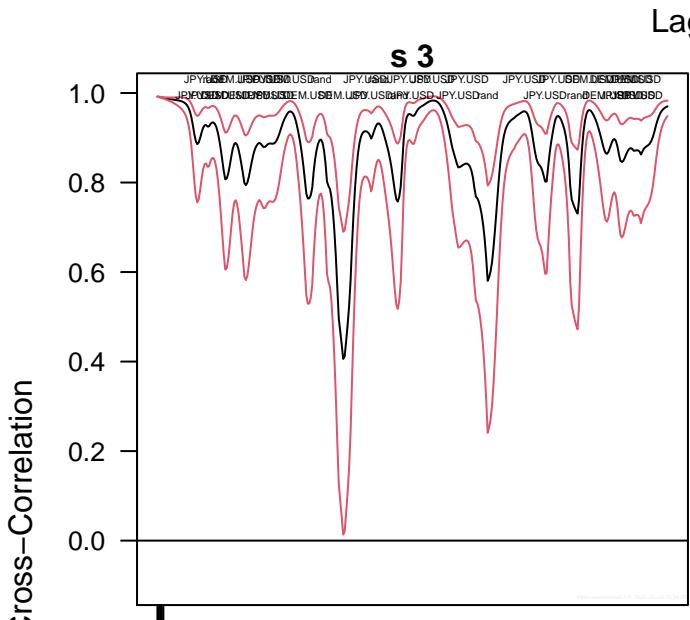
Wavelet Local Multiple Cross-Correlation

**level 3****level 2**

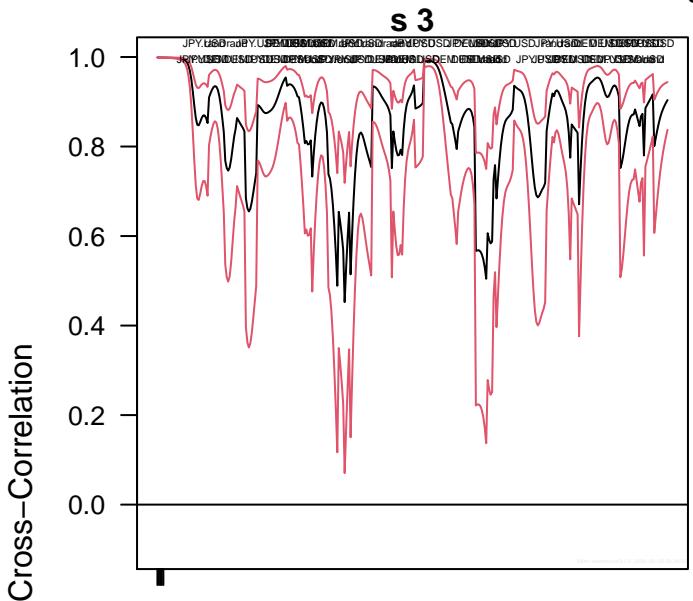
Wavelet Local Multiple Cross-Correlation

**level 1**

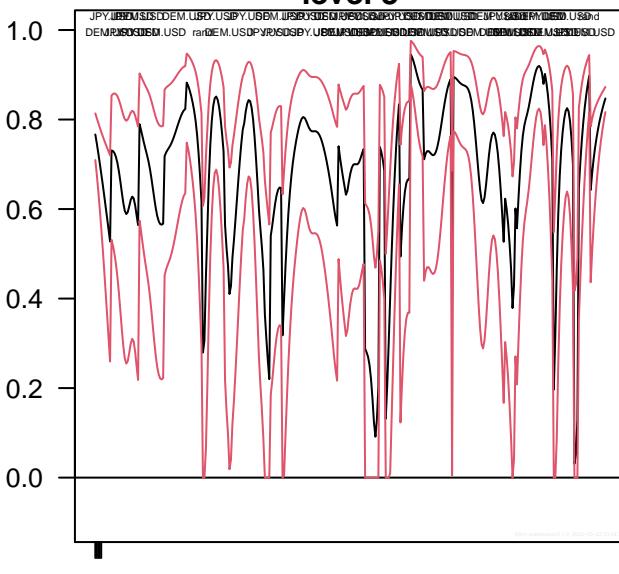
time



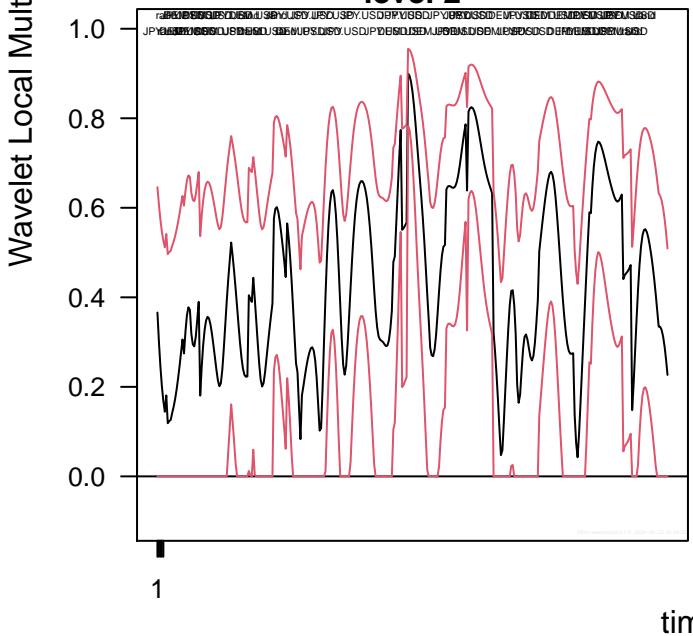
Lag 1



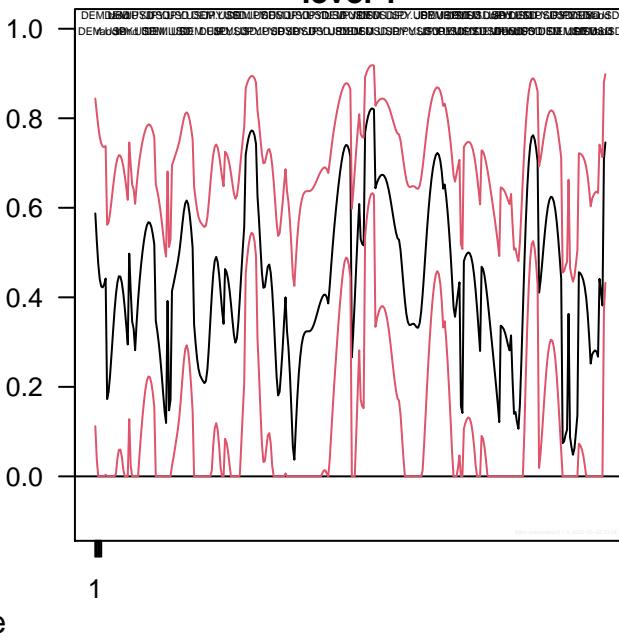
level 3

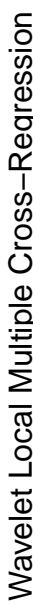


level 2

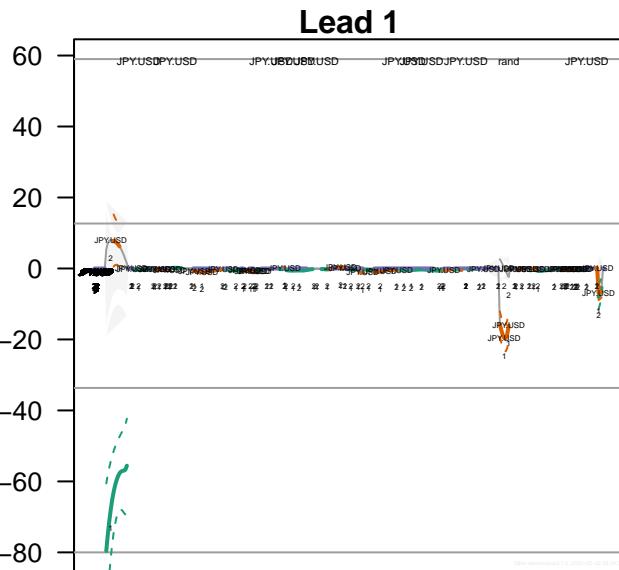


level 1

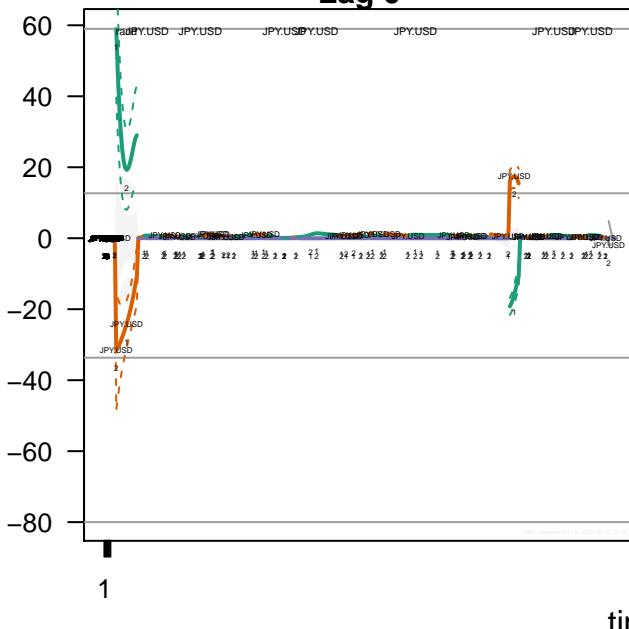




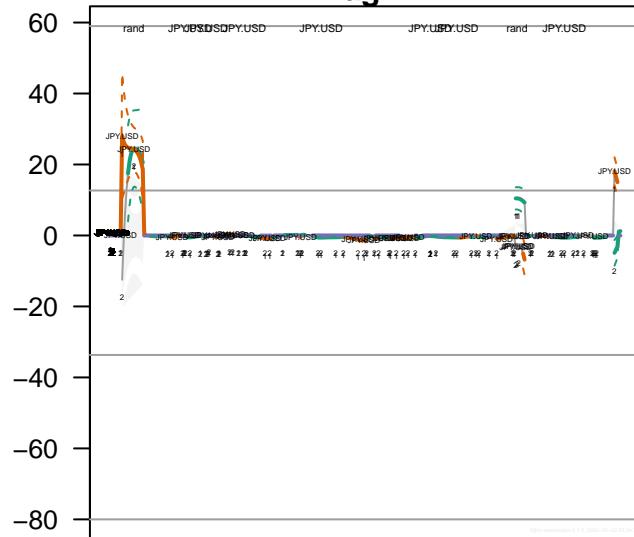
level 1



Lag 0



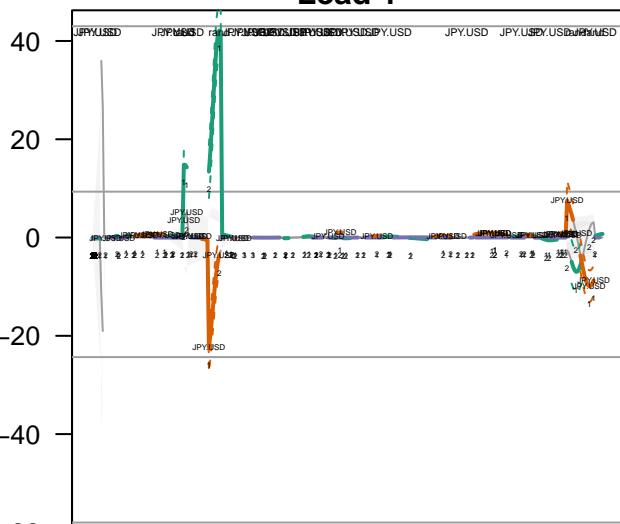
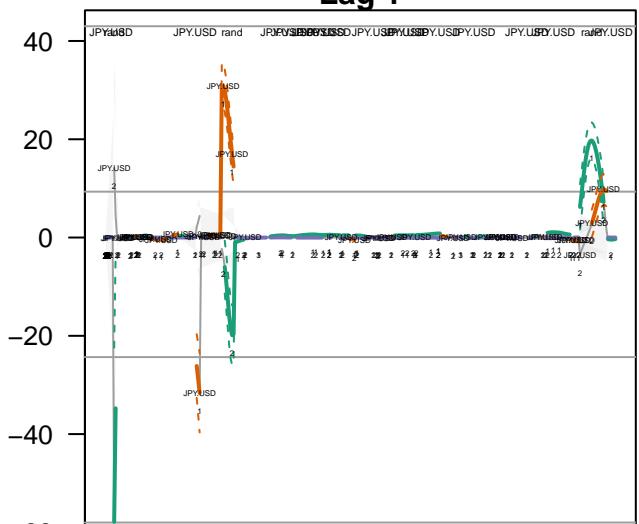
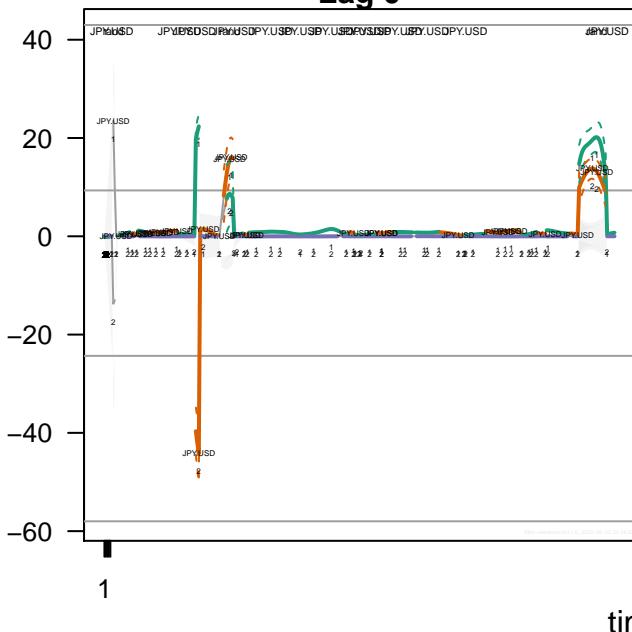
Lag 1



level 2

Lead 1

Wavelet Local Multiple Cross-Regression

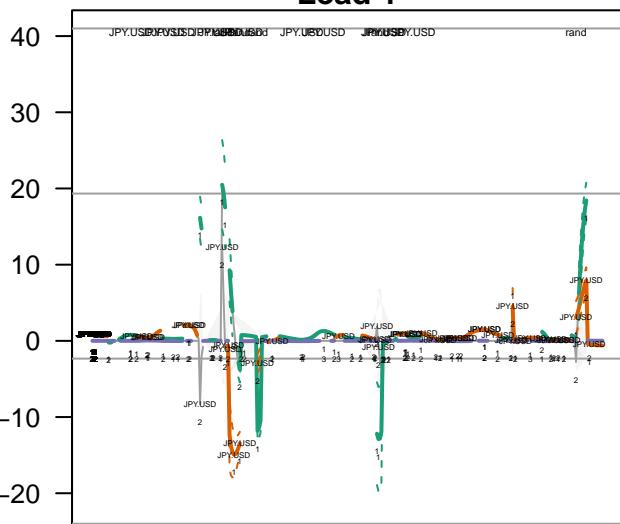
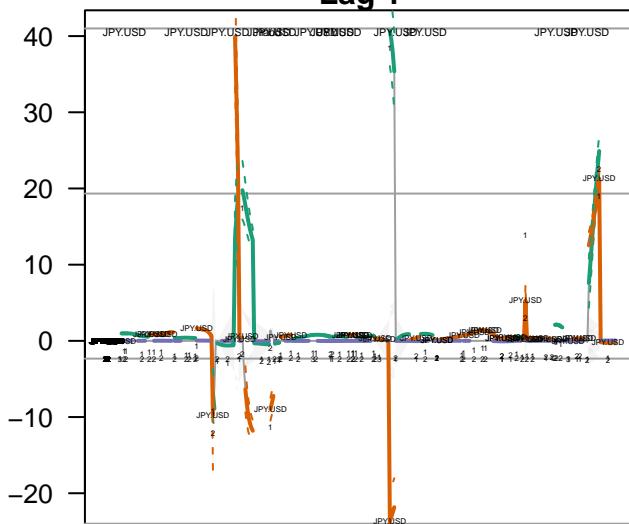
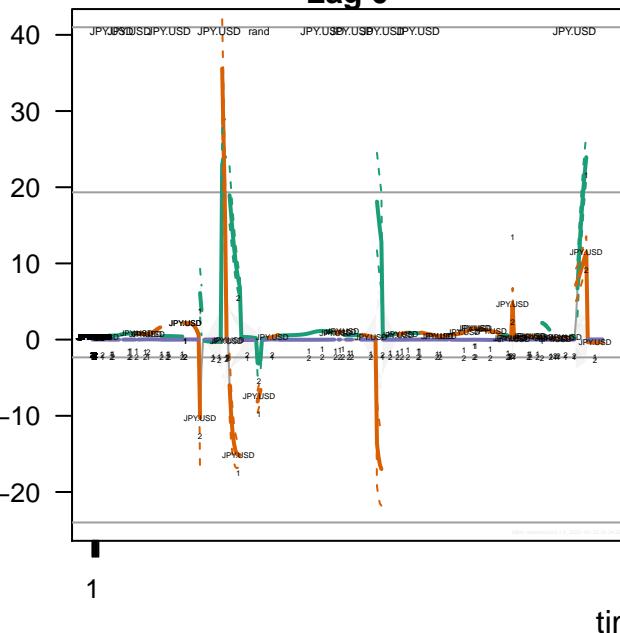
**Lag 1****Lag 0**

time

level 3

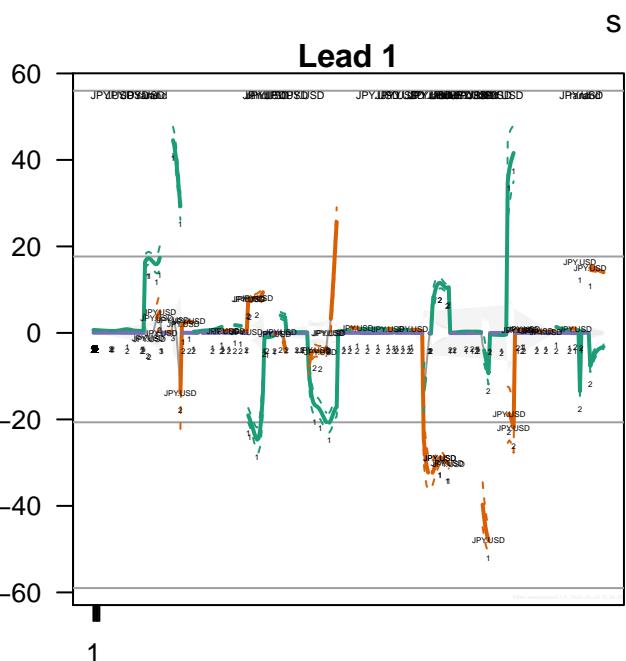
Lead 1

Wavelet Local Multiple Cross-Regression

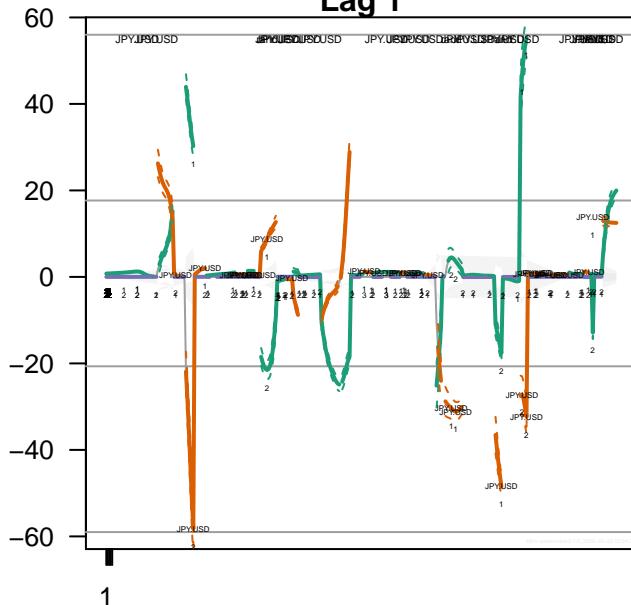
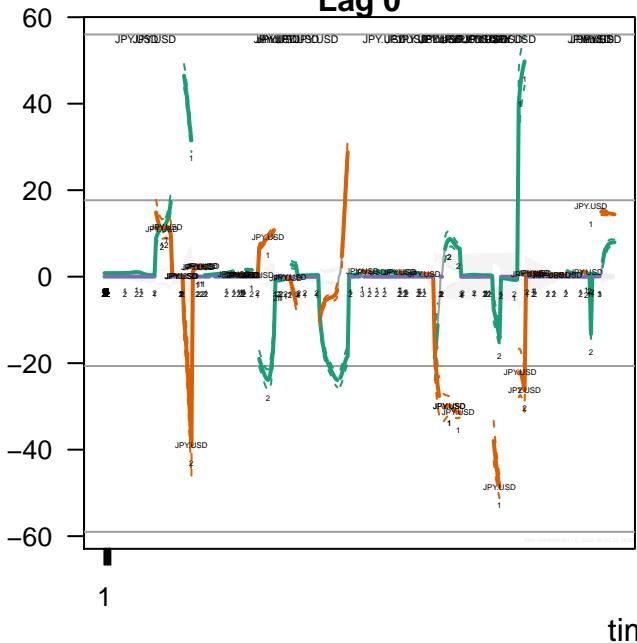
**Lag 1****Lag 0**

time

Wavelet Local Multiple Cross-Regression



s 3

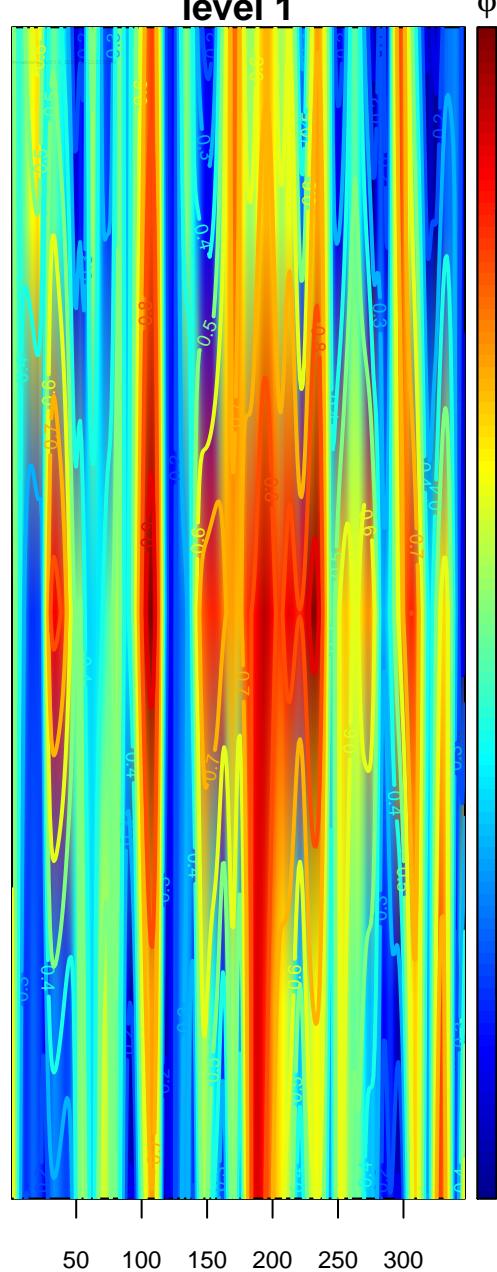
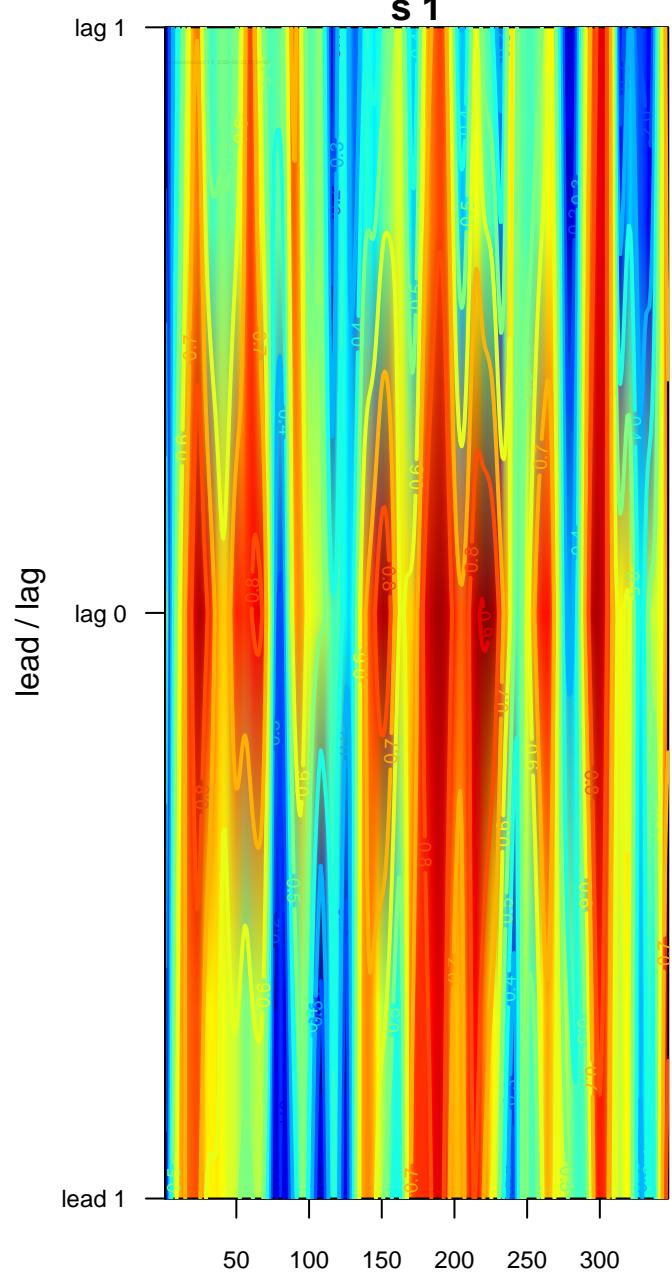
**Lag 0**

time

Wavelet Local Multiple Cross–Correlation

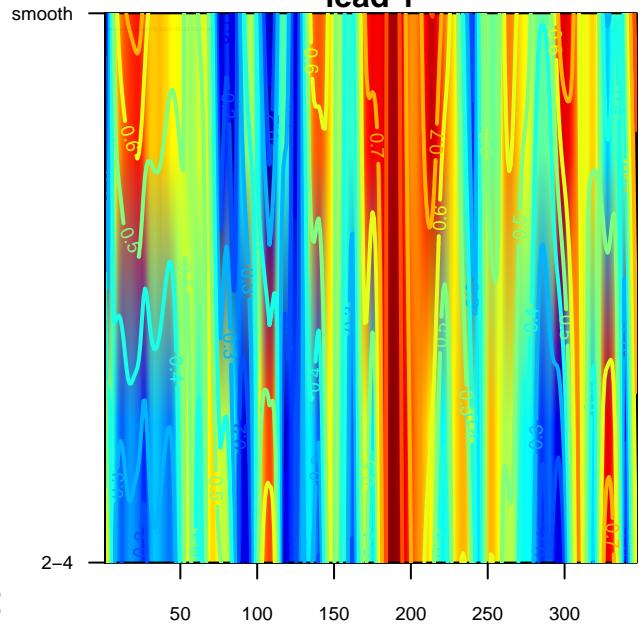
s 1

level 1

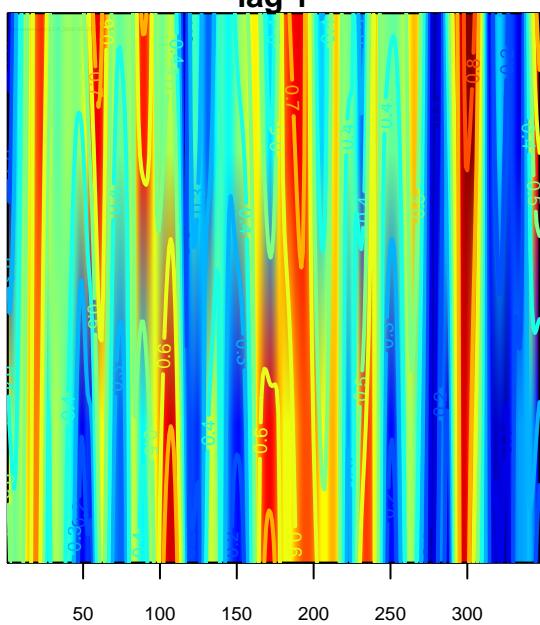


Wavelet Local Multiple Cross-Correlation

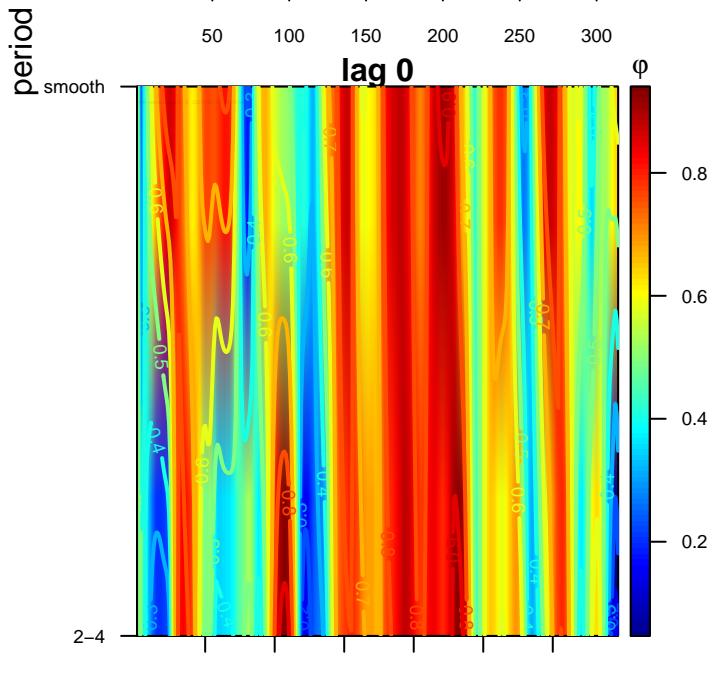
lead 1



lag 1



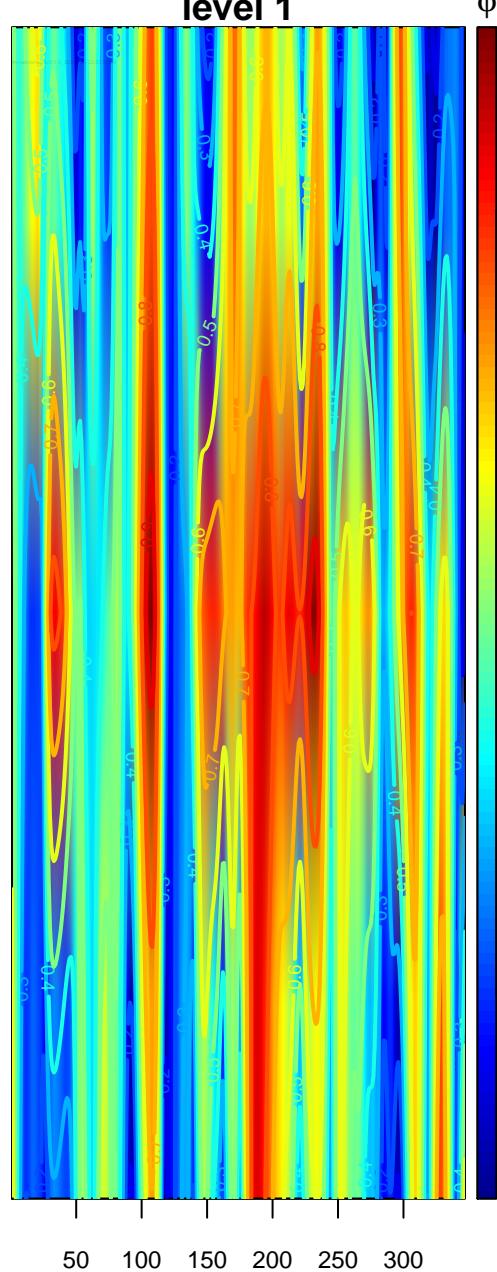
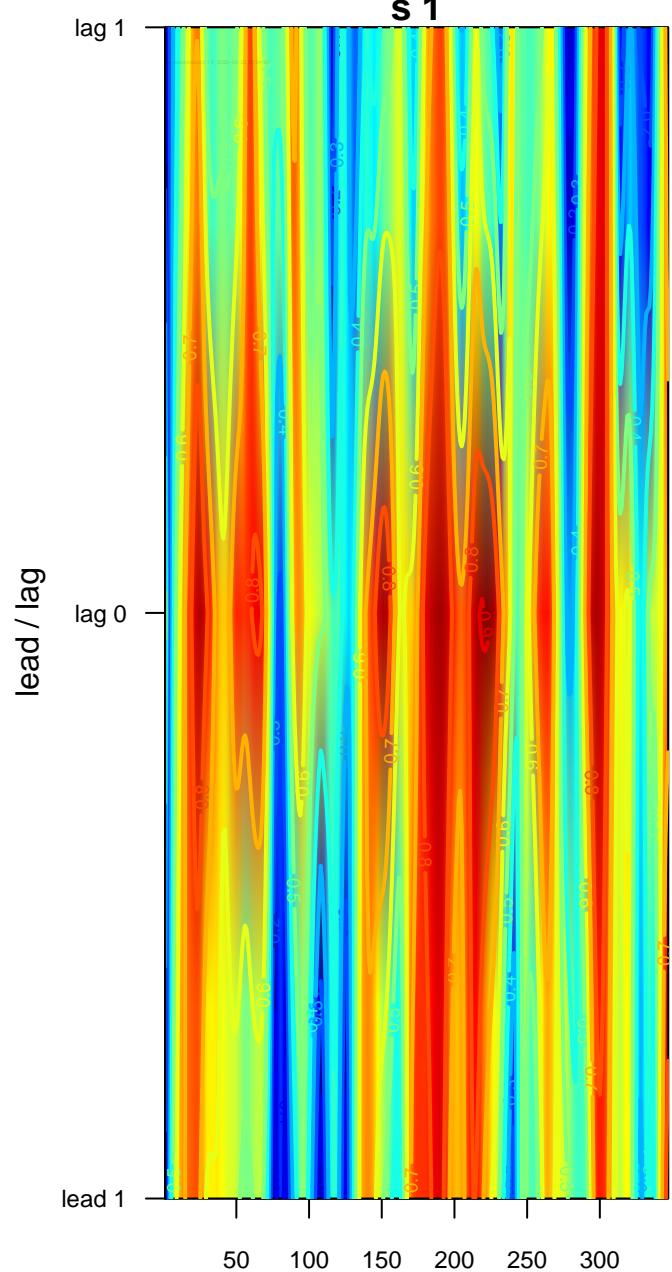
lag 0



Wavelet Local Multiple Cross–Correlation

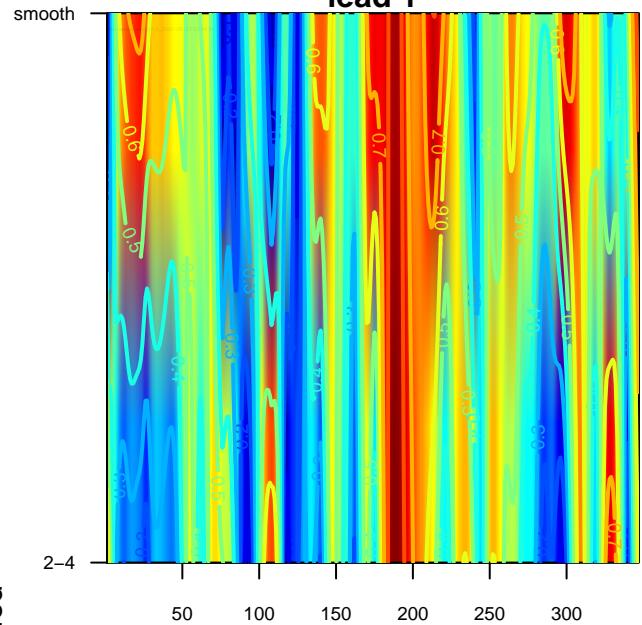
s 1

level 1

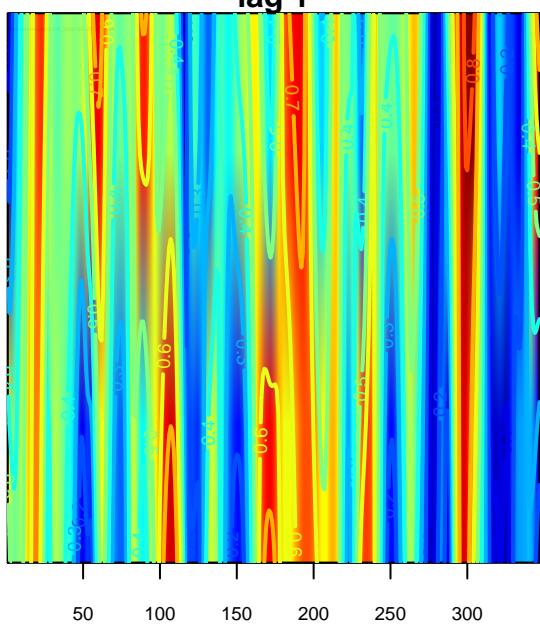


Wavelet Local Multiple Cross-Correlation

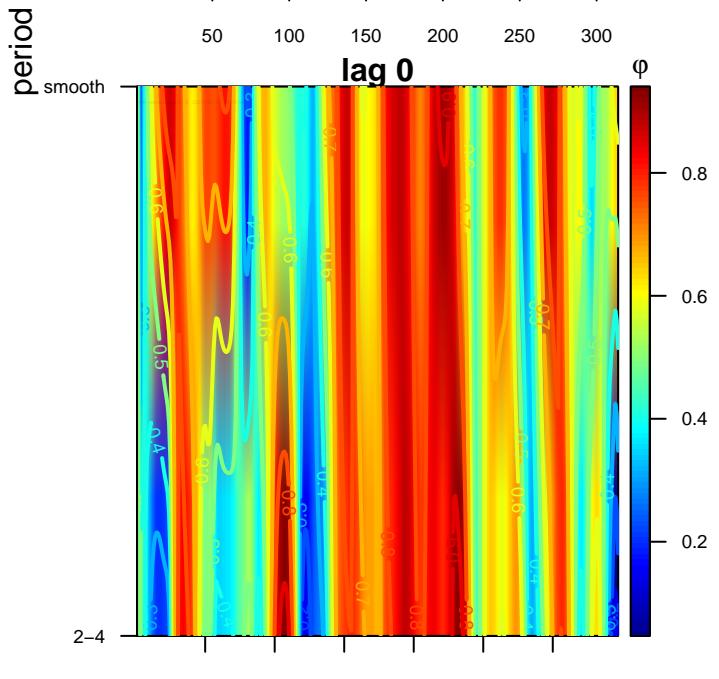
lead 1



lag 1



lag 0

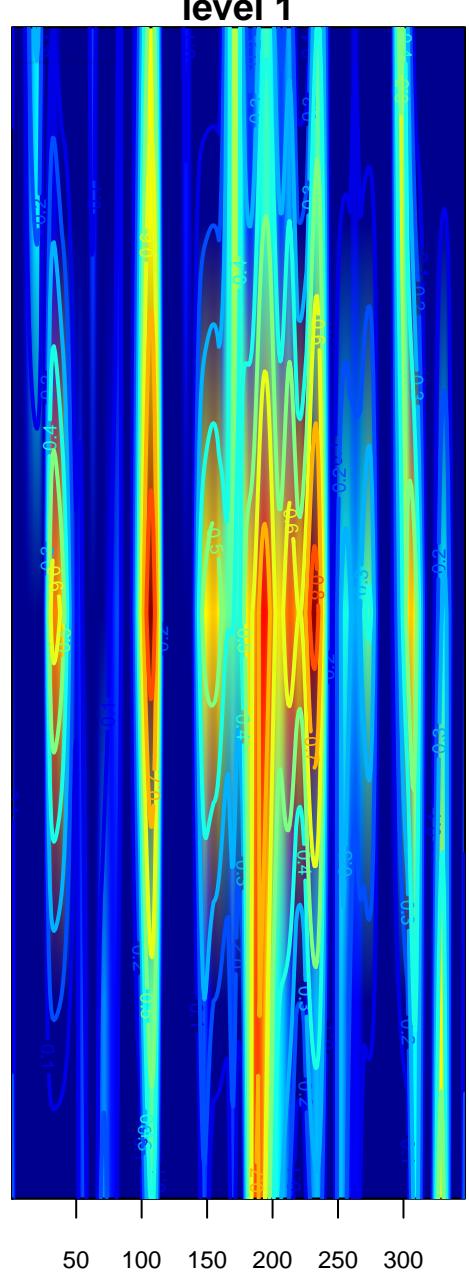
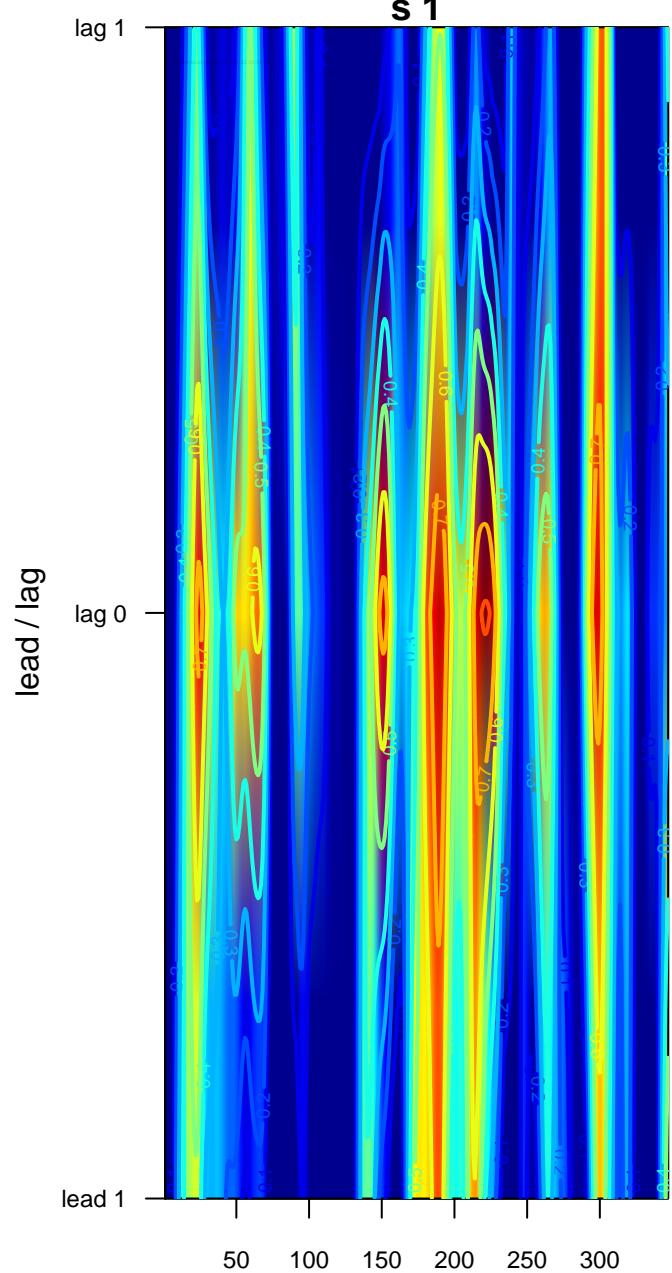


Wavelet Local Multiple Cross-Correlation

s 1

level 1

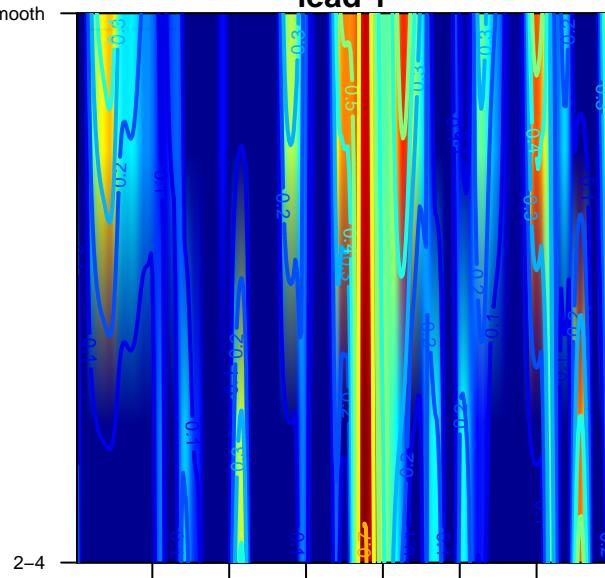
ϕ



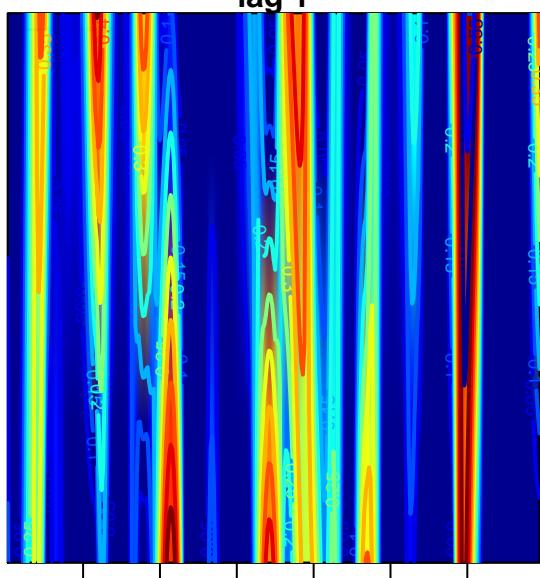
Wavelet Local Multiple Cross-Correlation

lead 1

smooth

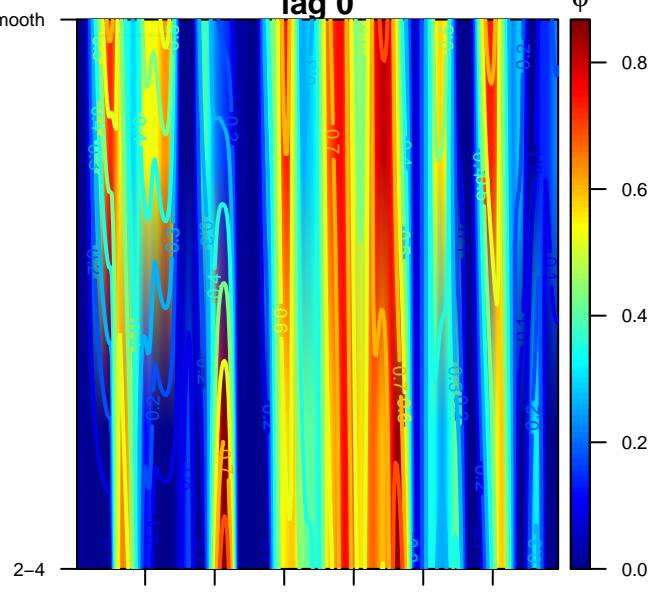


lag 1

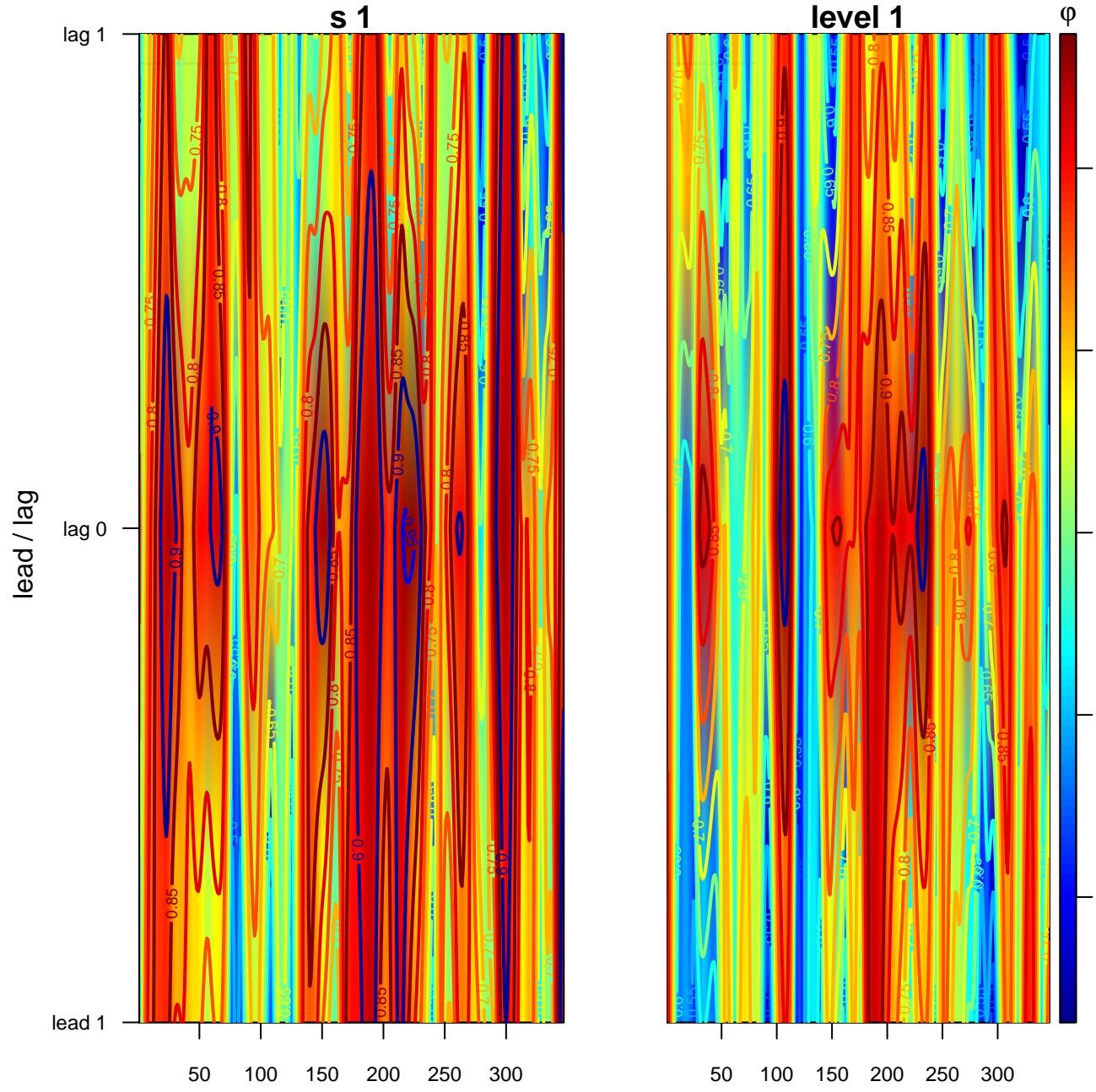


lag 0

period



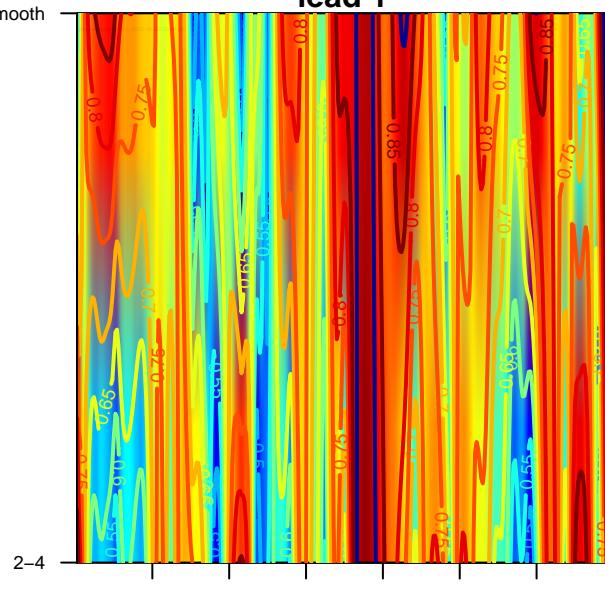
Wavelet Local Multiple Cross–Correlation



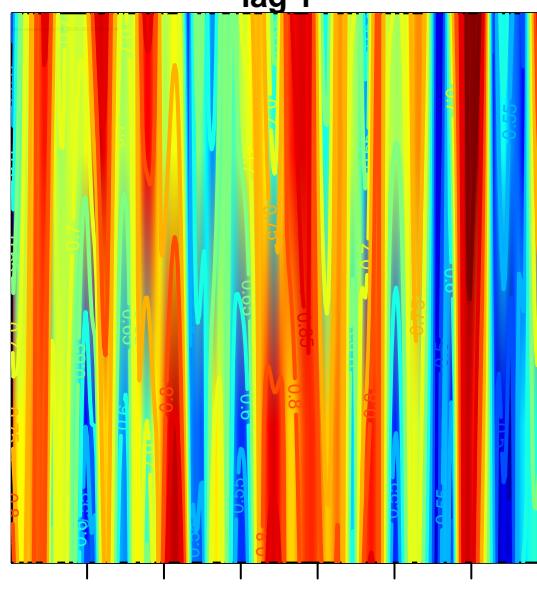
Wavelet Local Multiple Cross-Correlation

lead 1

smooth

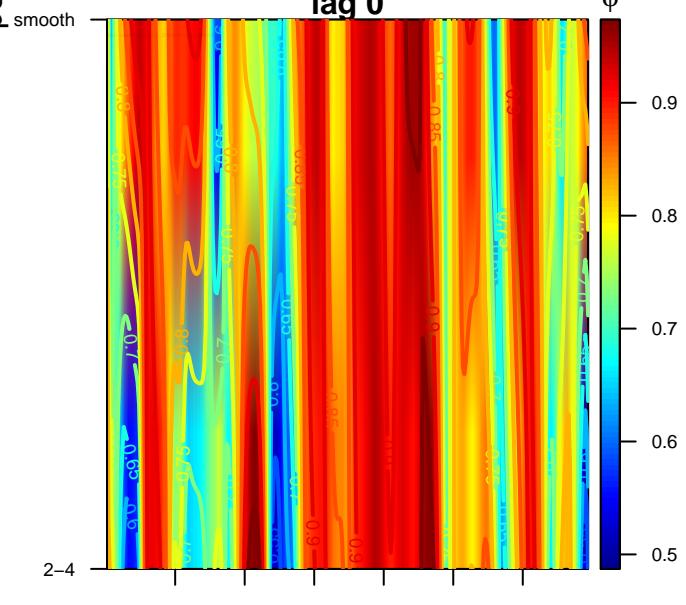


lag 1



lag 0

period



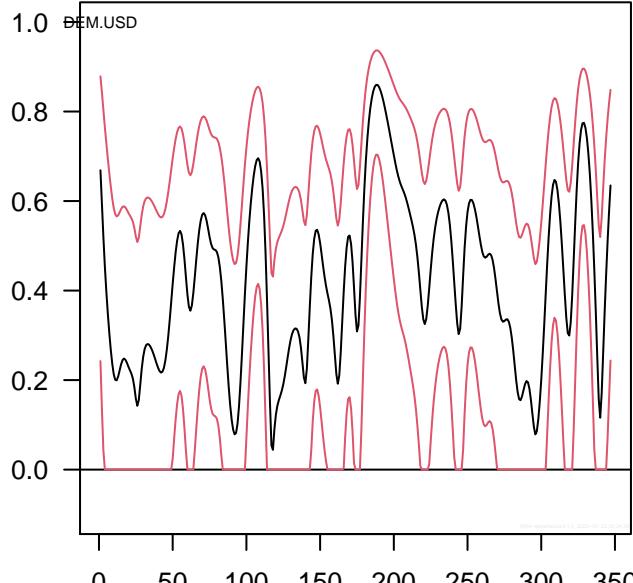
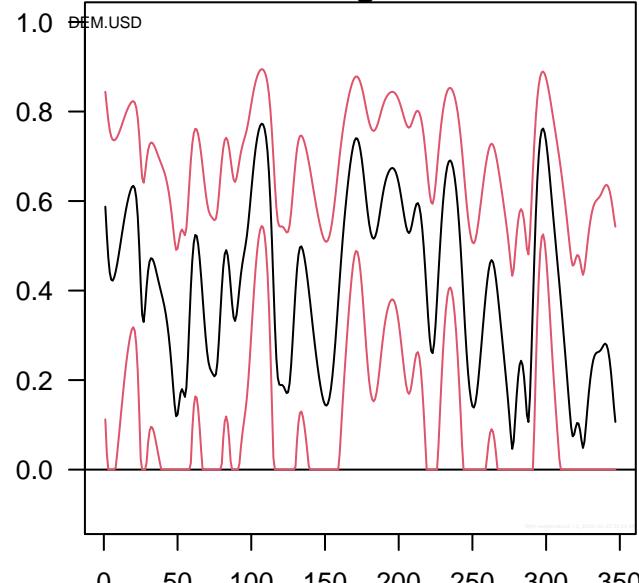
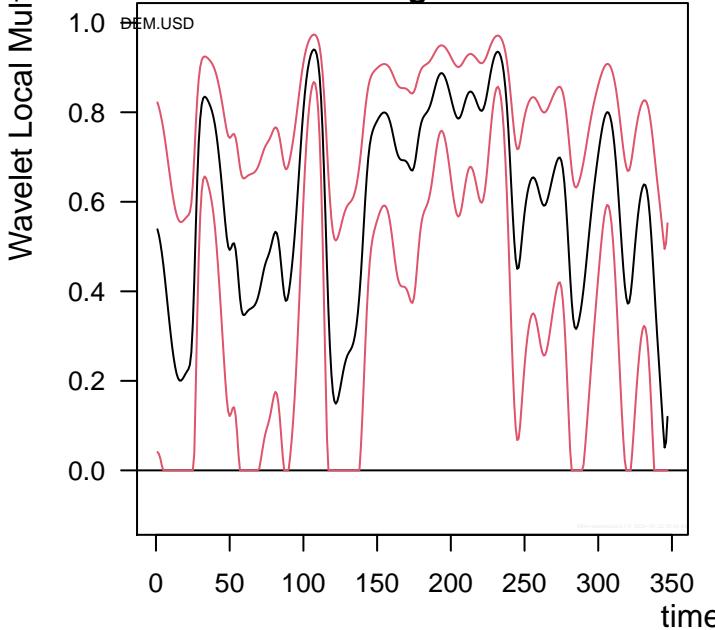
φ

0.9
0.8
0.7
0.6
0.5

level 1

Lead 1

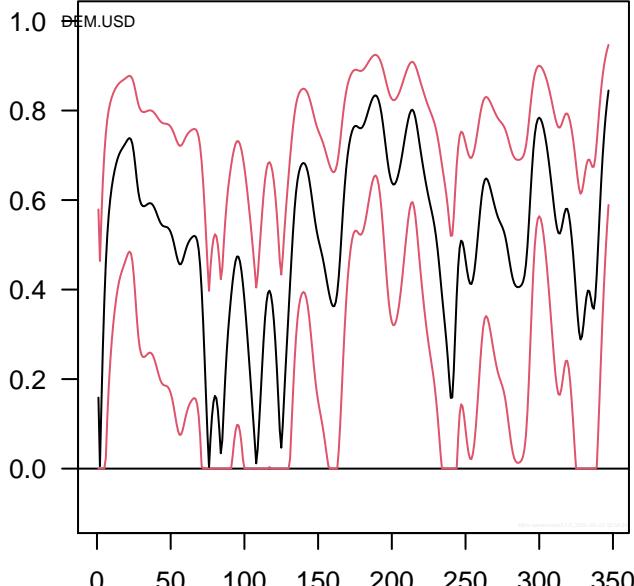
Wavelet Local Multiple Cross-Correlation

**Lag 1****Lag 0**

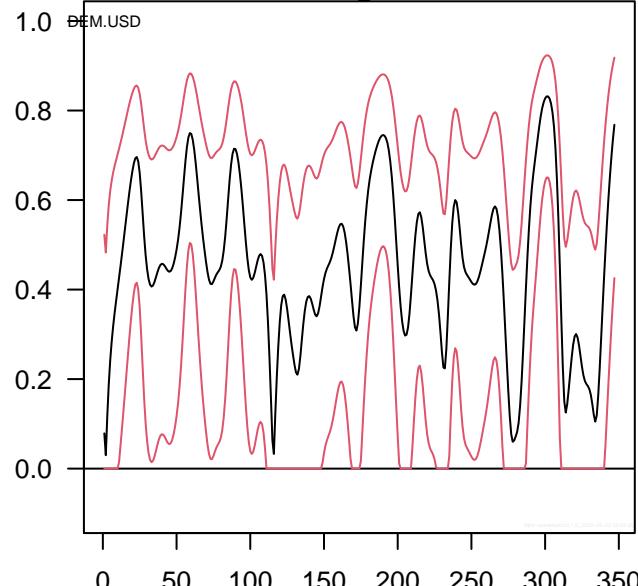
s 1

Lead 1

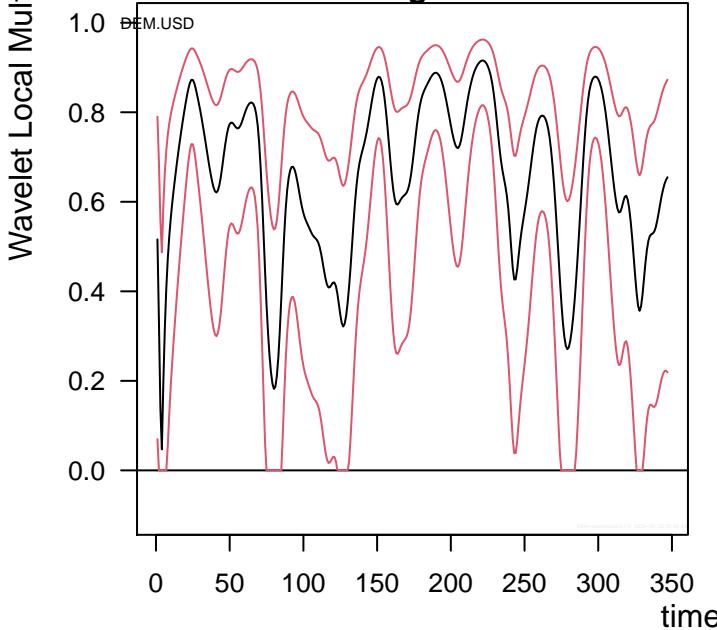
Wavelet Local Multiple Cross-Correlation



Lag 1



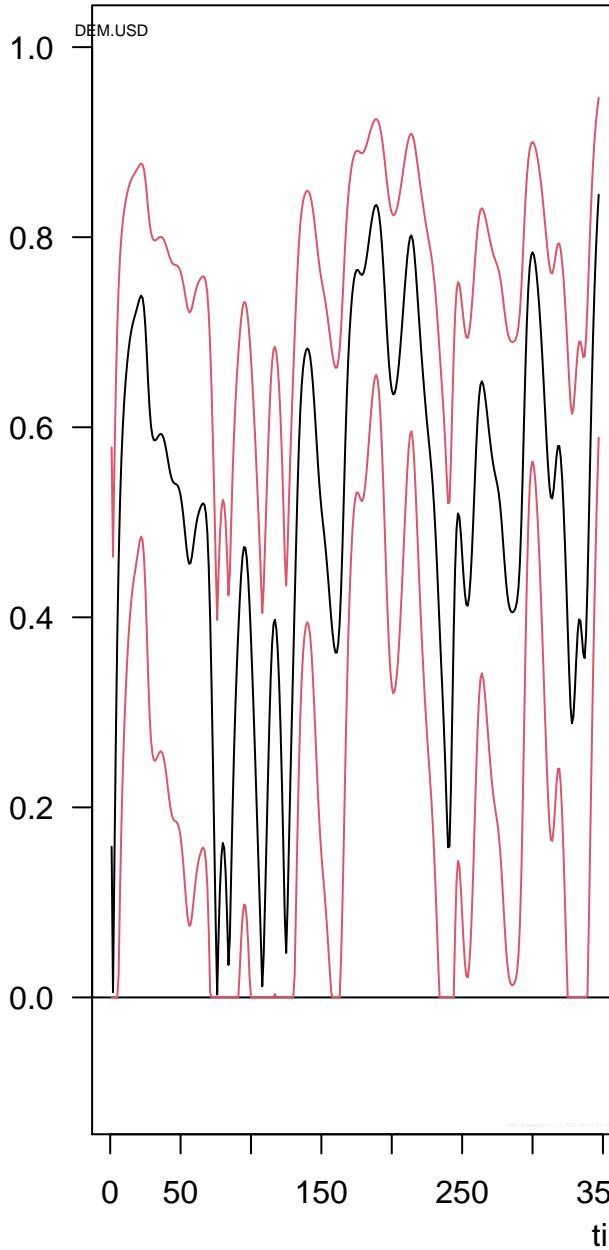
Lag 0



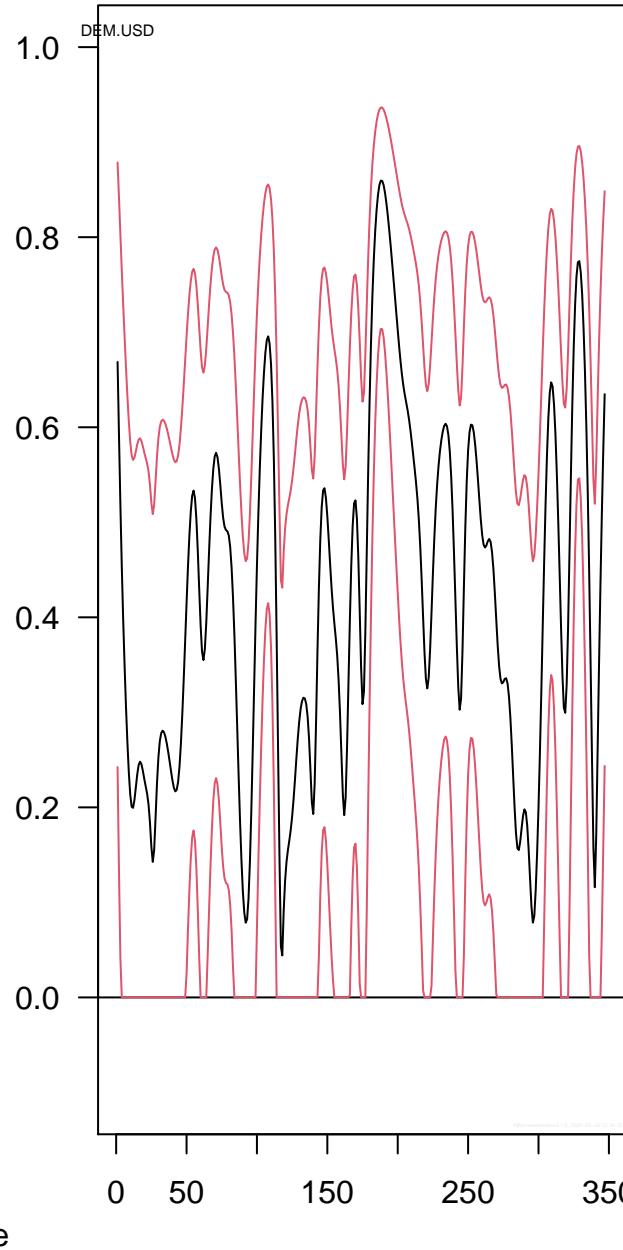
Lead 1

s 1

Wavelet Local Multiple Cross-Correlation



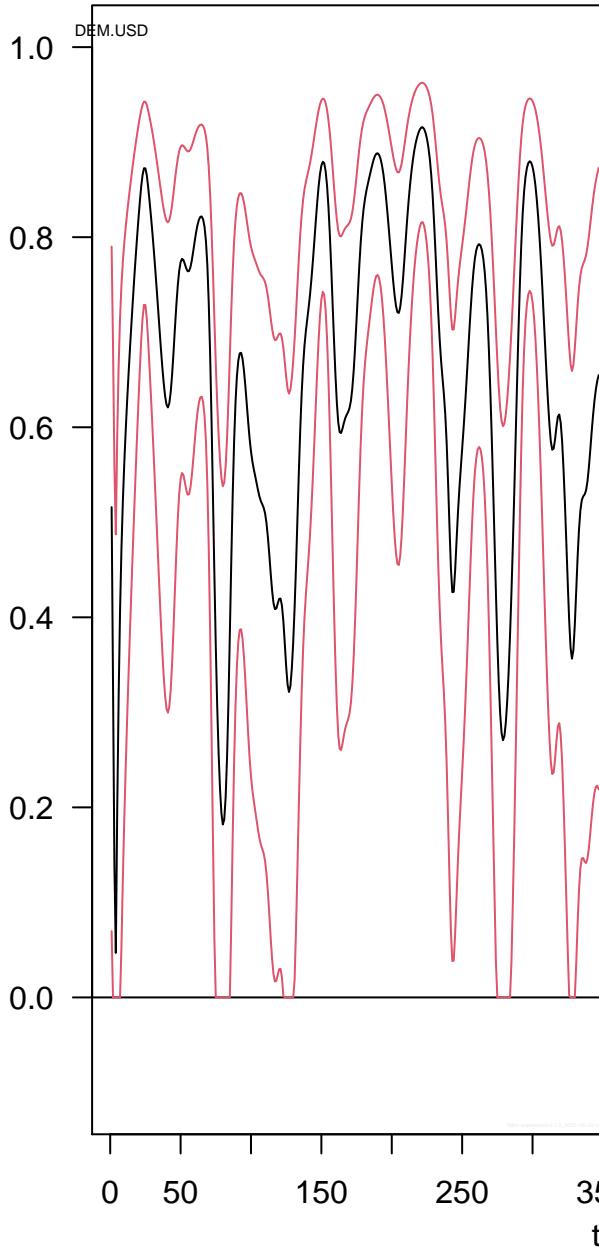
level 1



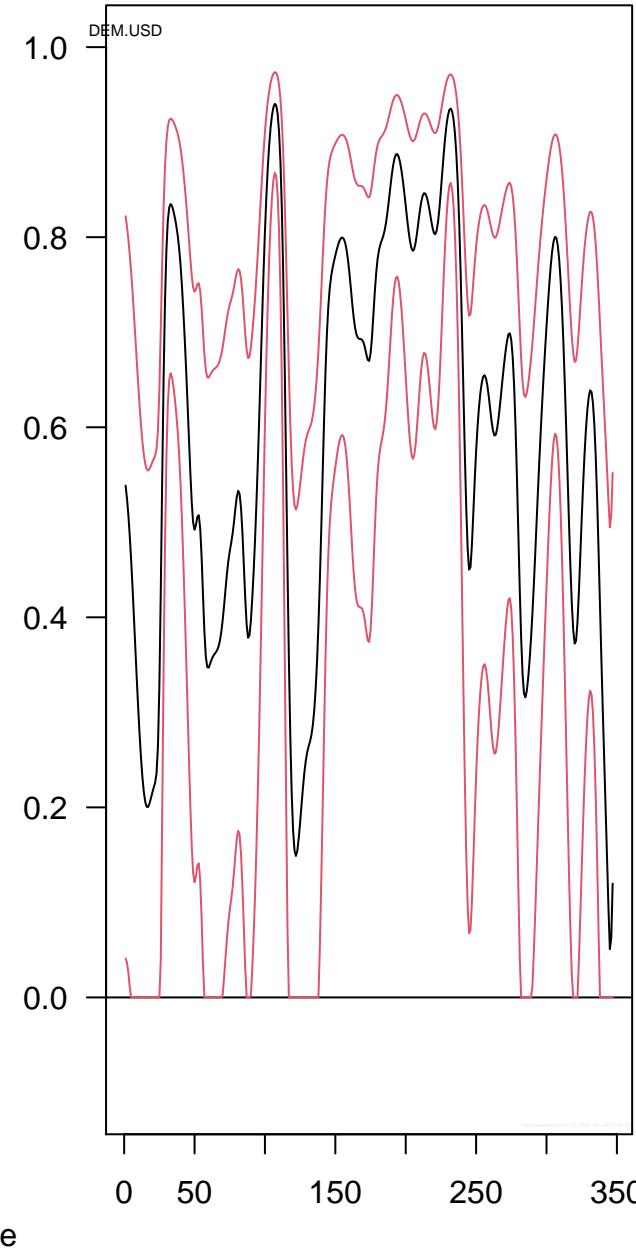
Lag 0

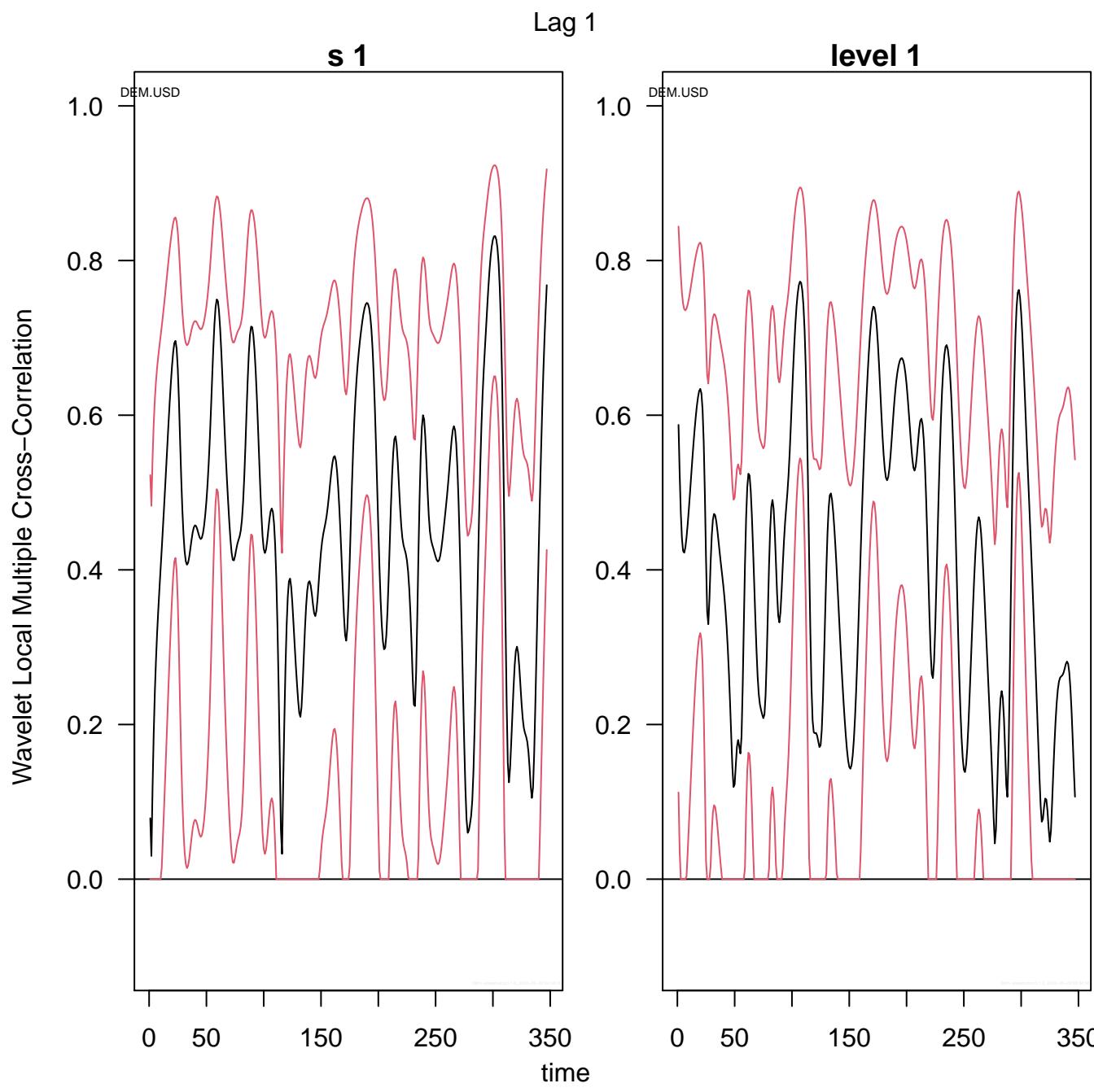
s 1

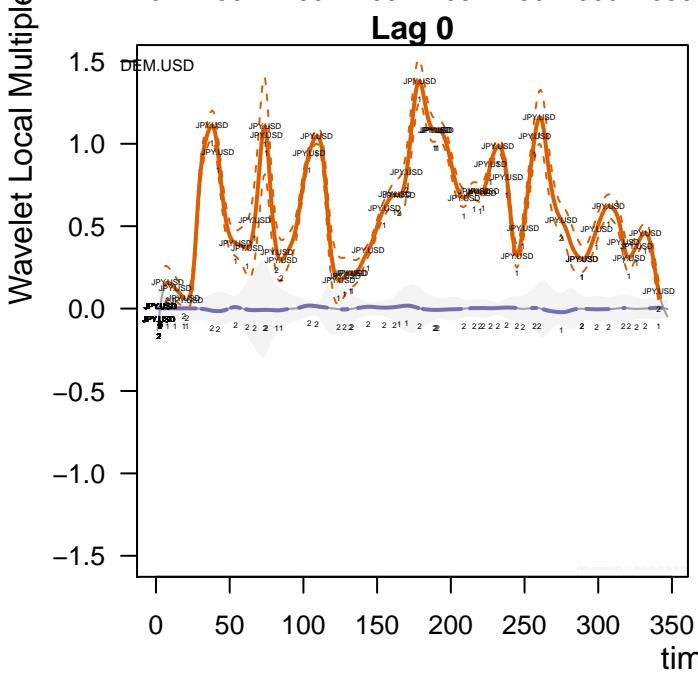
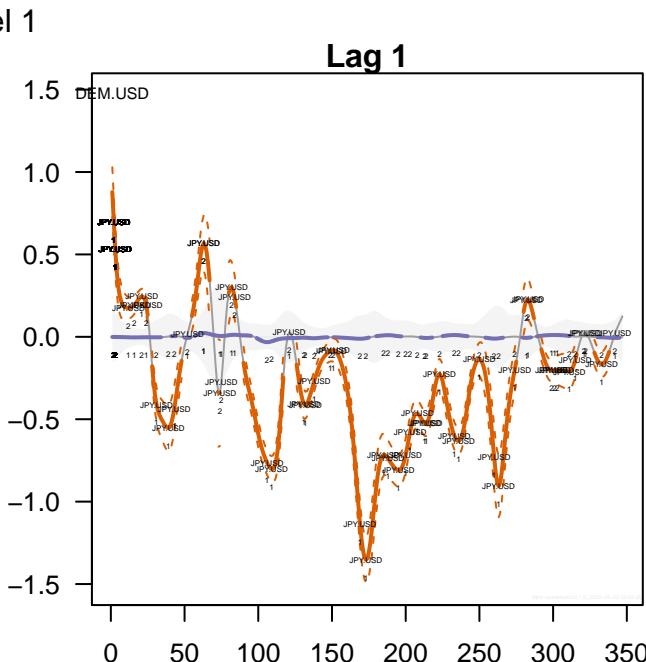
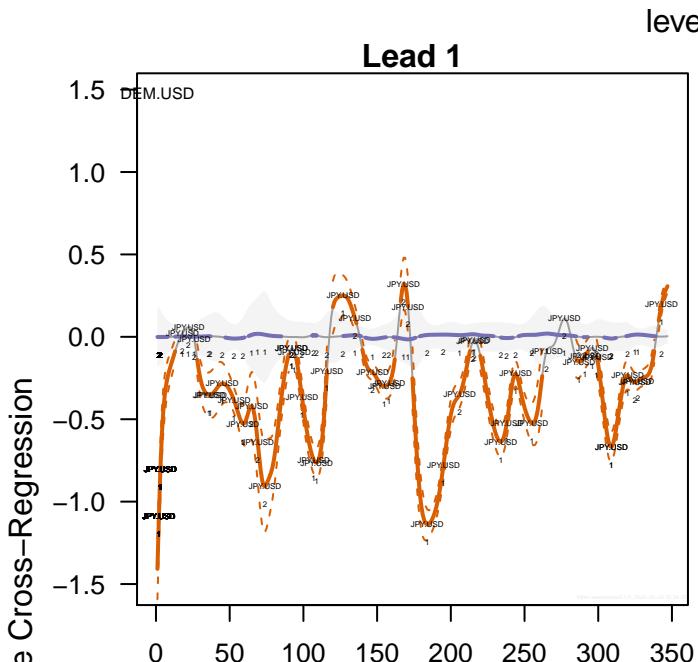
Wavelet Local Multiple Cross-Correlation



level 1



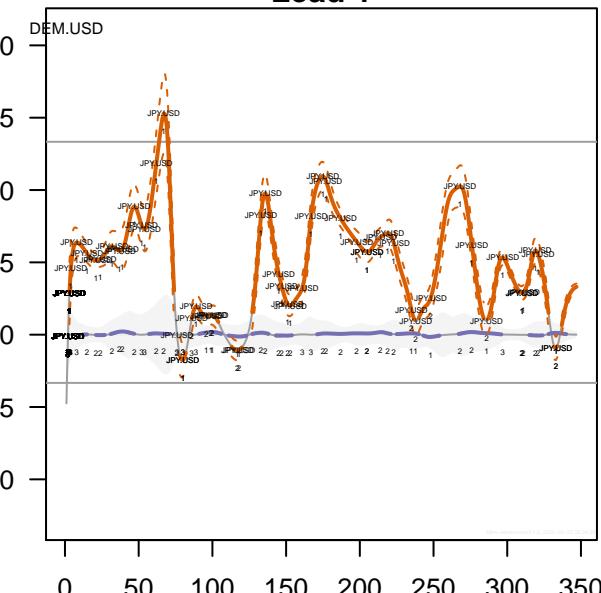
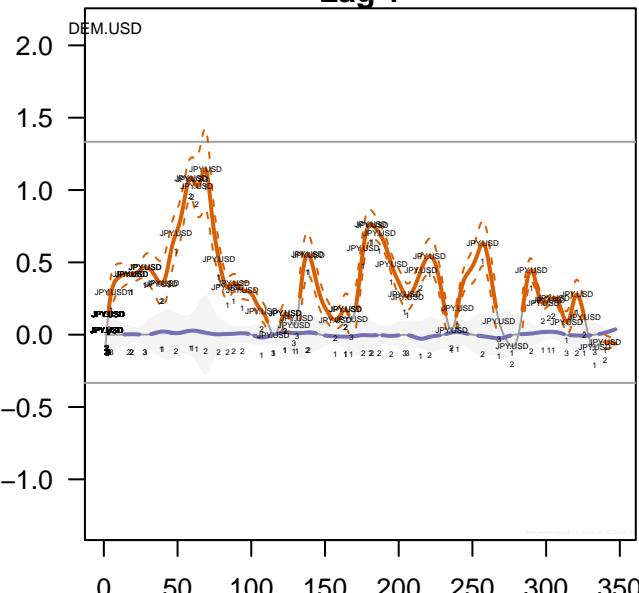




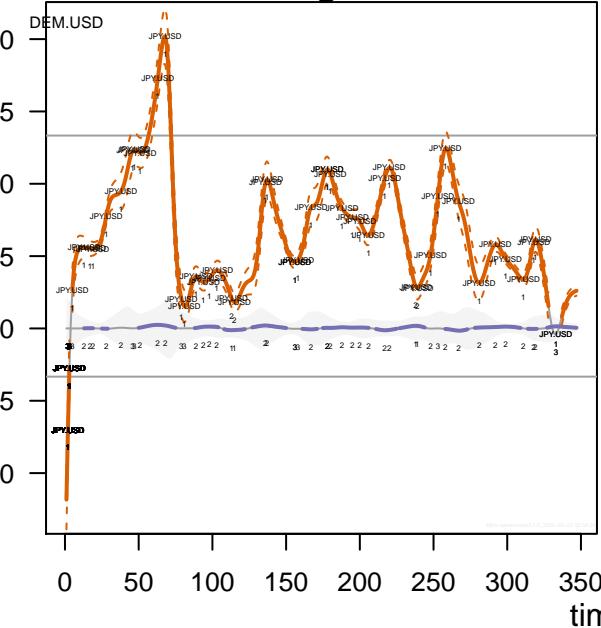
s 1

Lead 1

Wavelet Local Multiple Cross-Regression

**Lag 1****Lag 0**

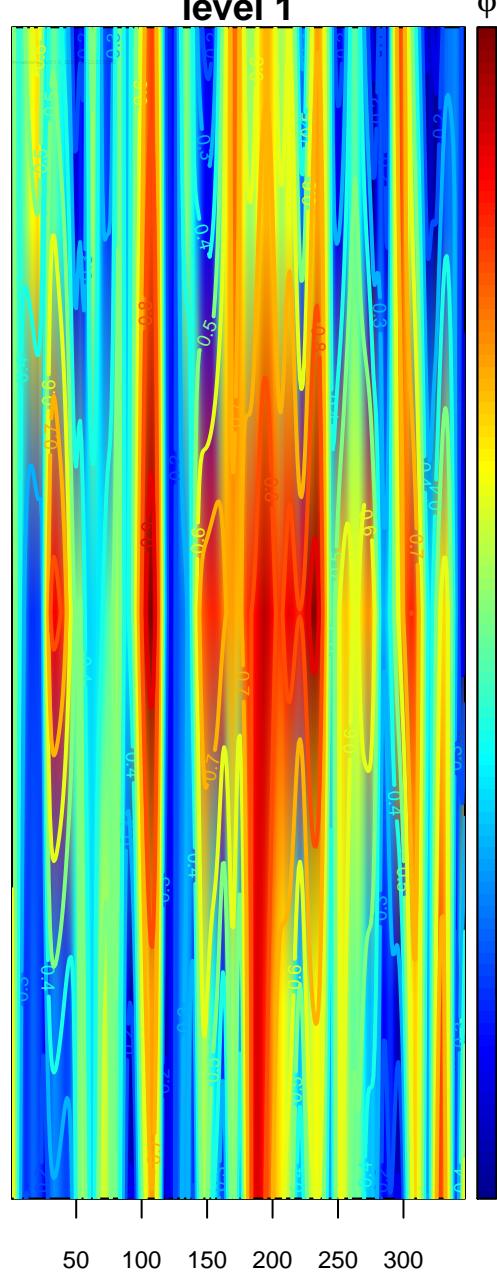
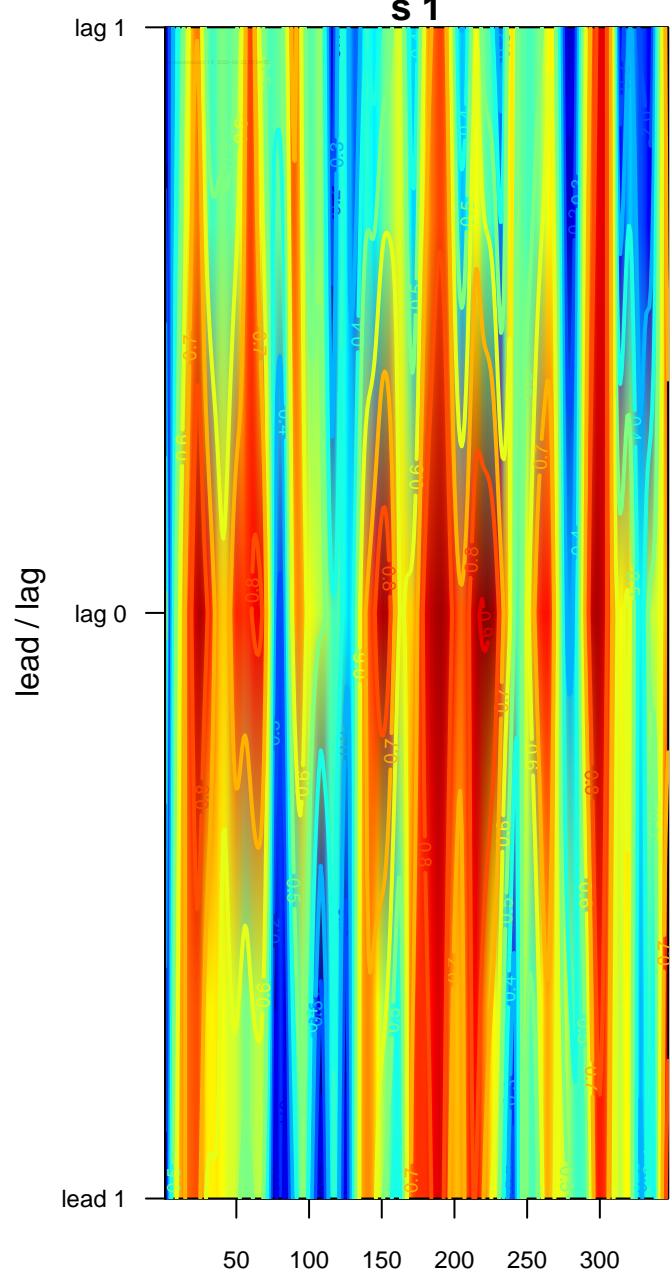
Wavelet Local Multiple Cross-Regression



Wavelet Local Multiple Cross–Correlation

s 1

level 1



ϕ

0.8

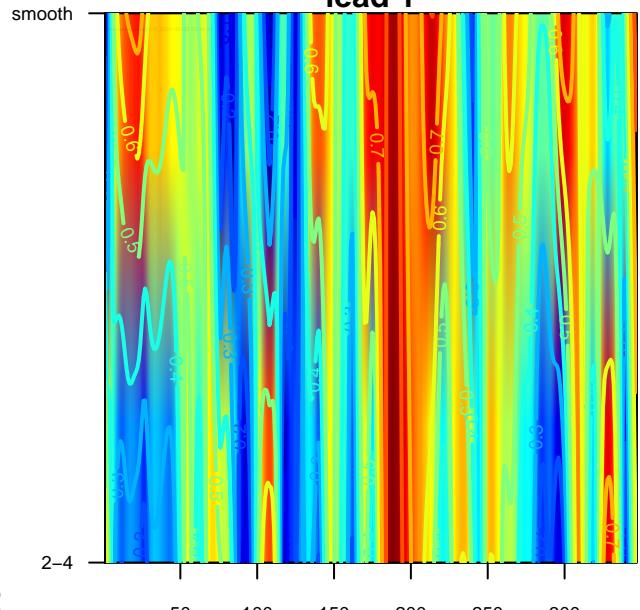
0.6

0.4

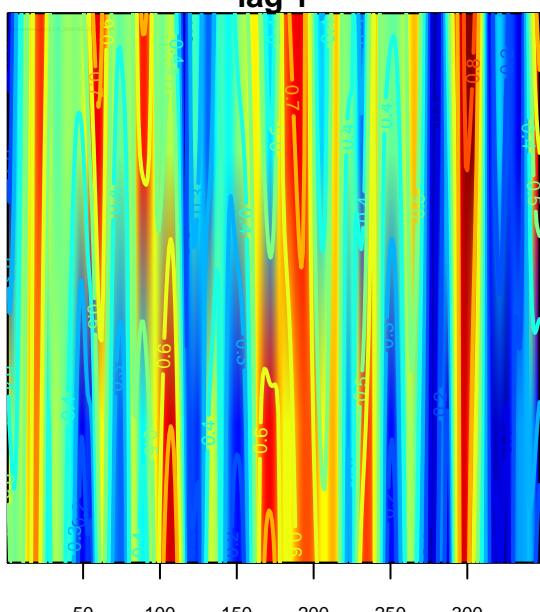
0.2

Wavelet Local Multiple Cross-Correlation

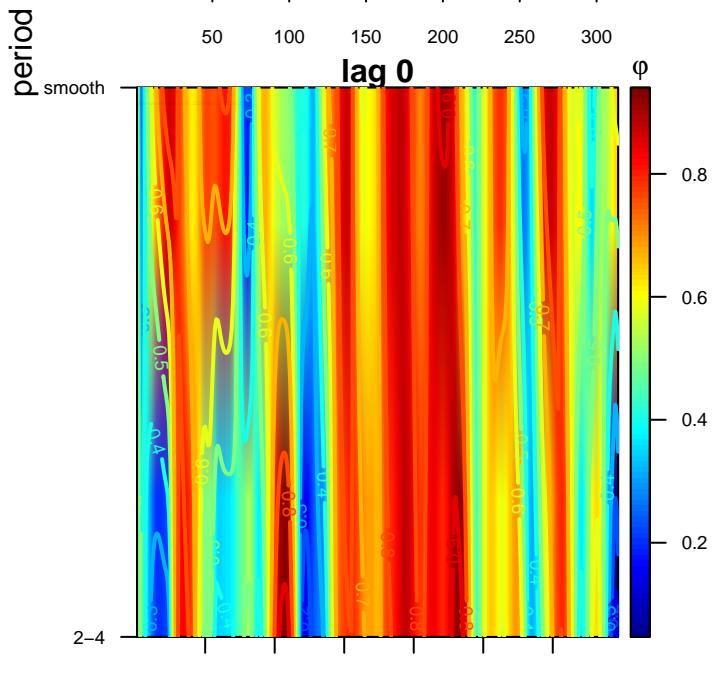
lead 1



lag 1



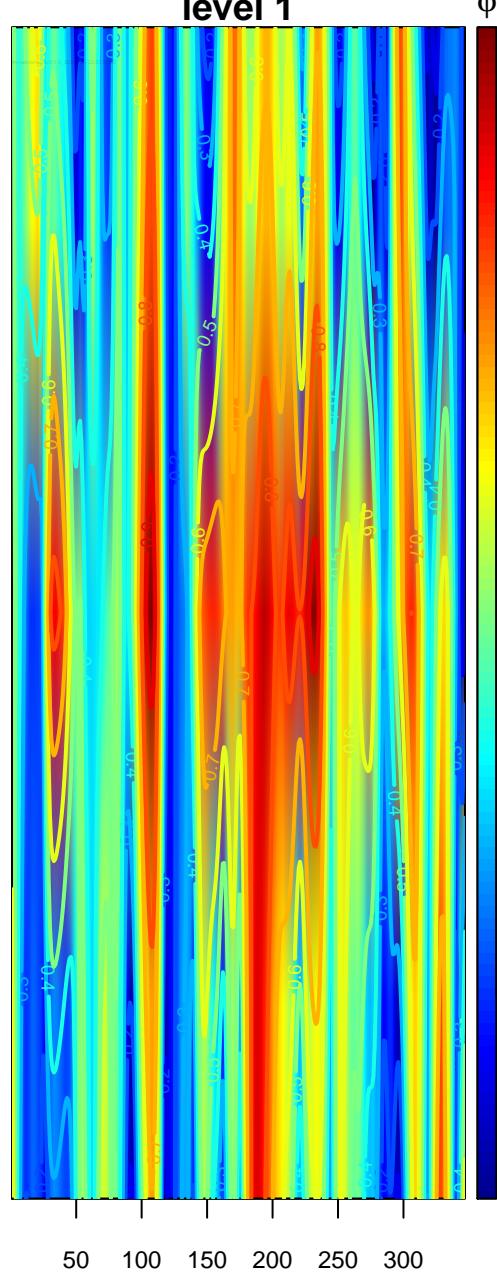
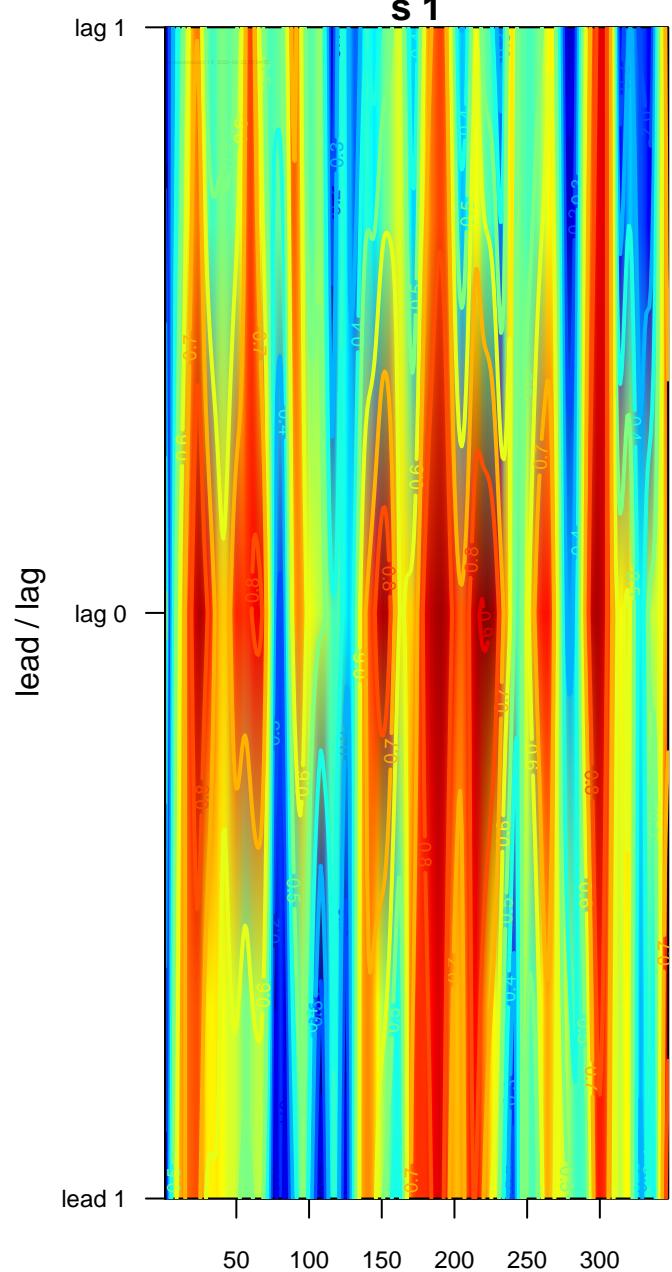
lag 0



Wavelet Local Multiple Cross–Correlation

s 1

level 1



ϕ

0.8

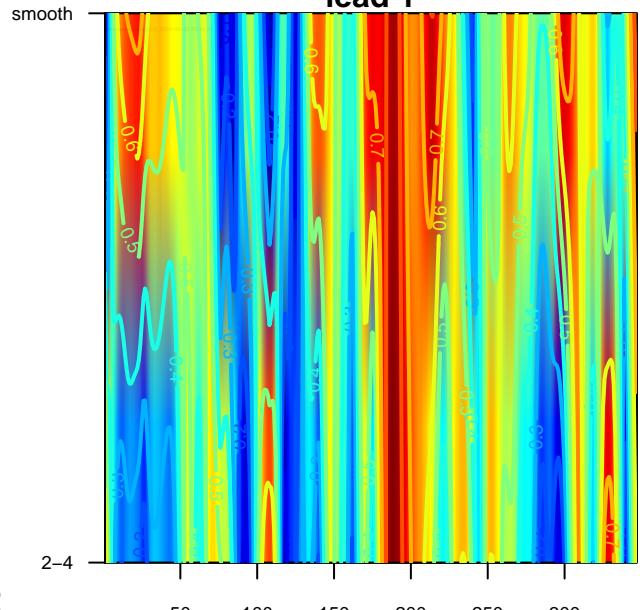
0.6

0.4

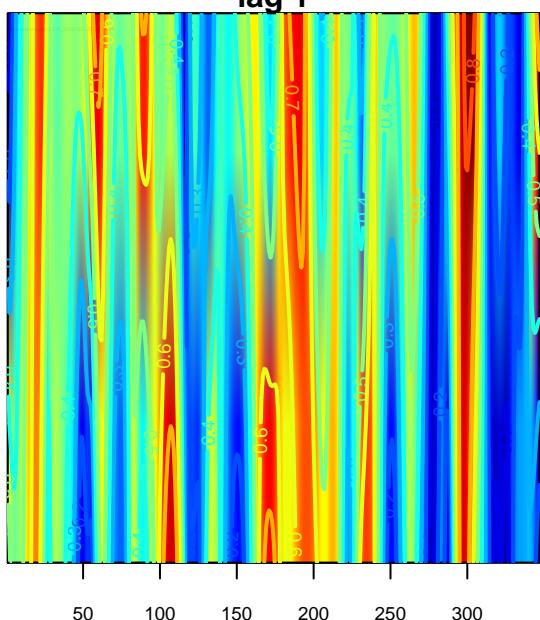
0.2

Wavelet Local Multiple Cross-Correlation

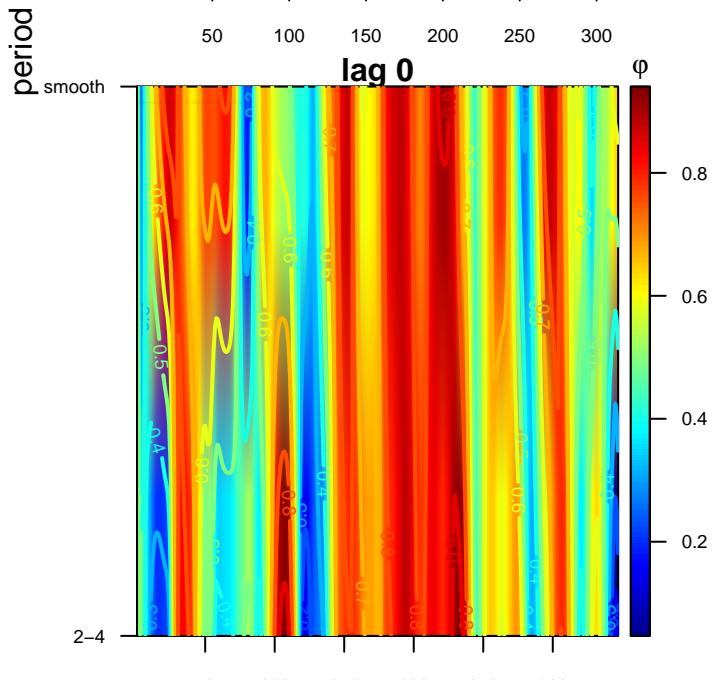
lead 1



lag 1



lag 0

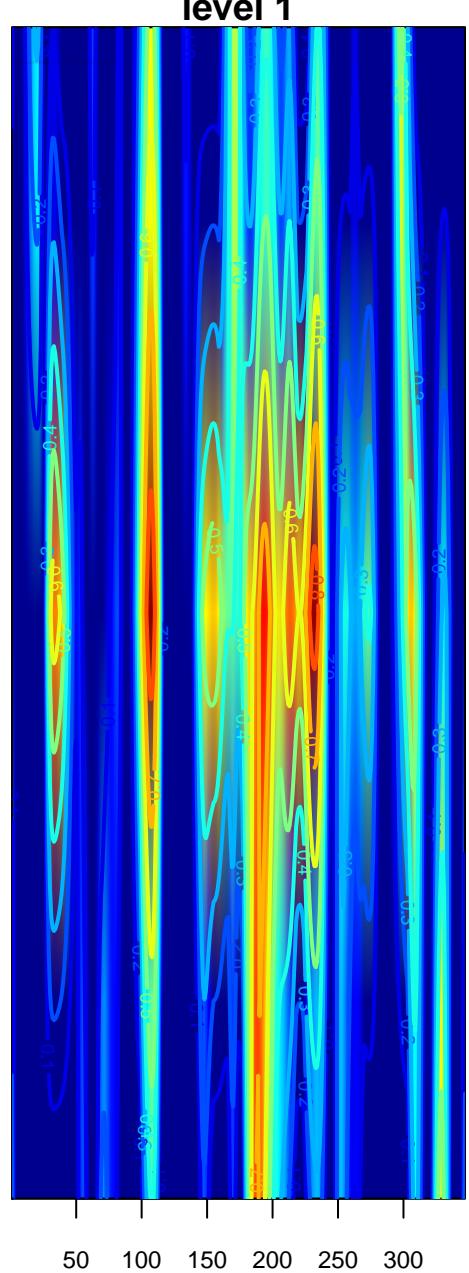
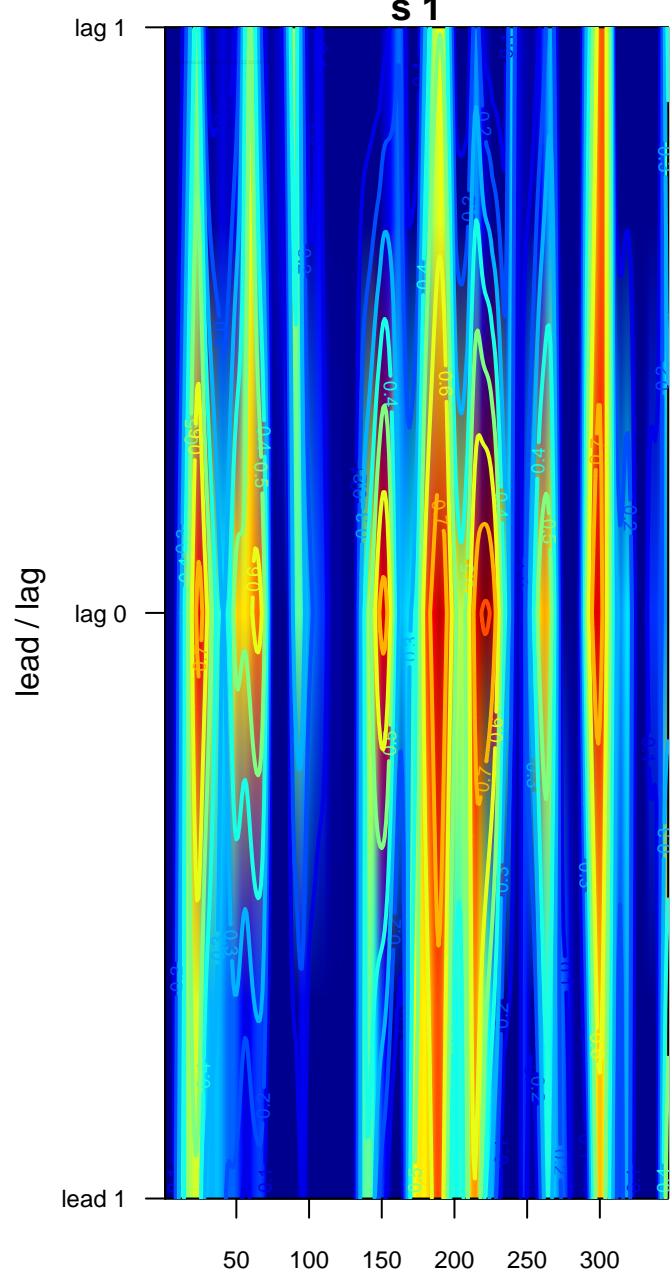


Wavelet Local Multiple Cross-Correlation

s 1

level 1

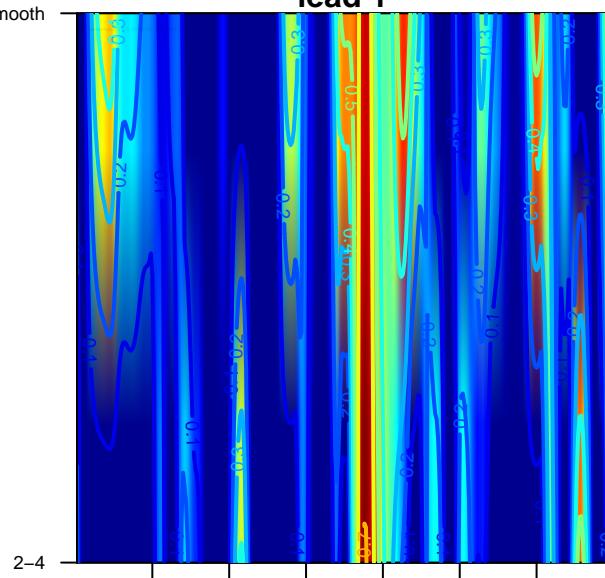
ϕ



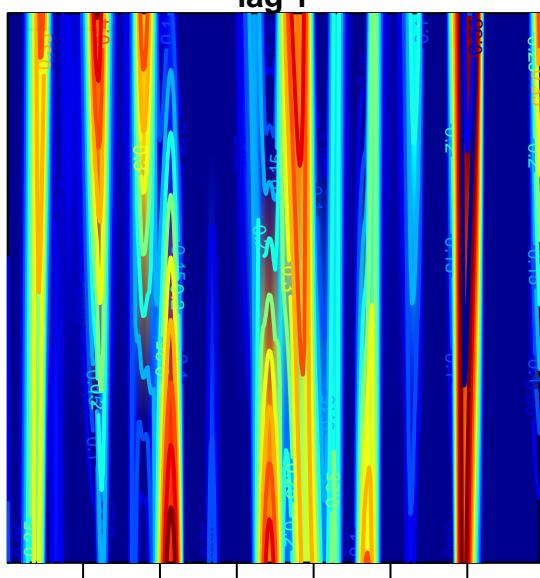
Wavelet Local Multiple Cross-Correlation

lead 1

smooth

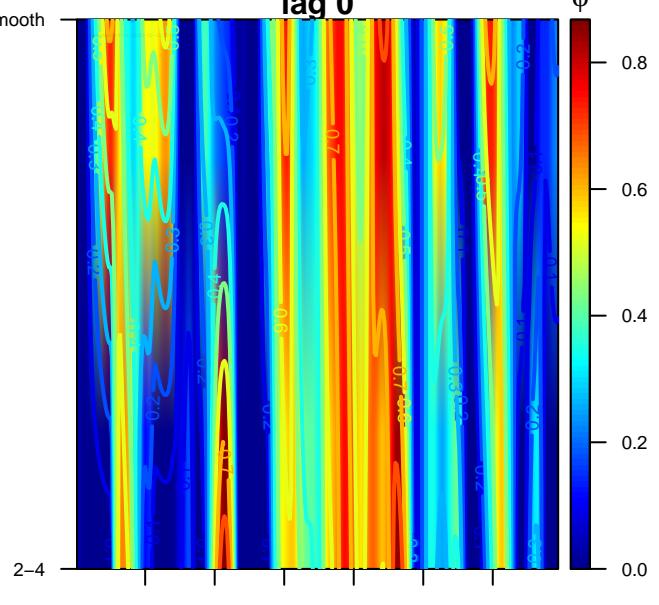


lag 1

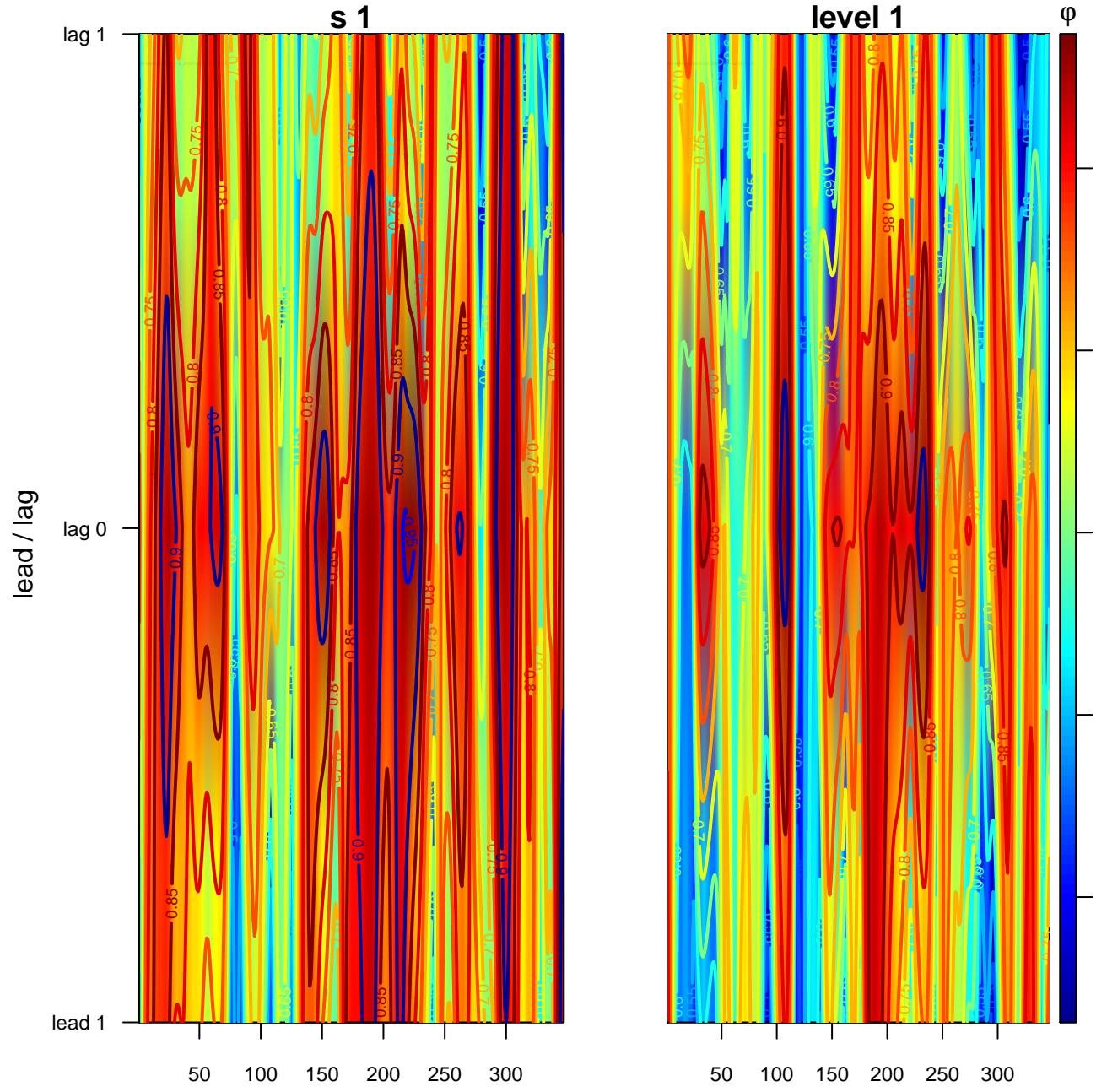


lag 0

period



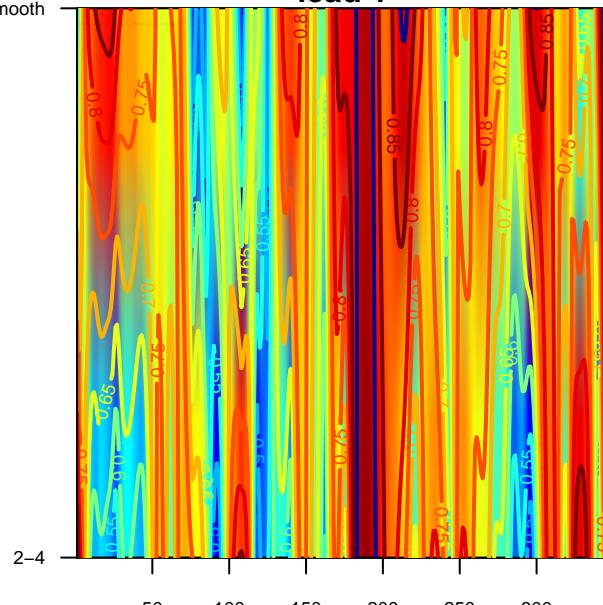
Wavelet Local Multiple Cross–Correlation



Wavelet Local Multiple Cross-Correlation

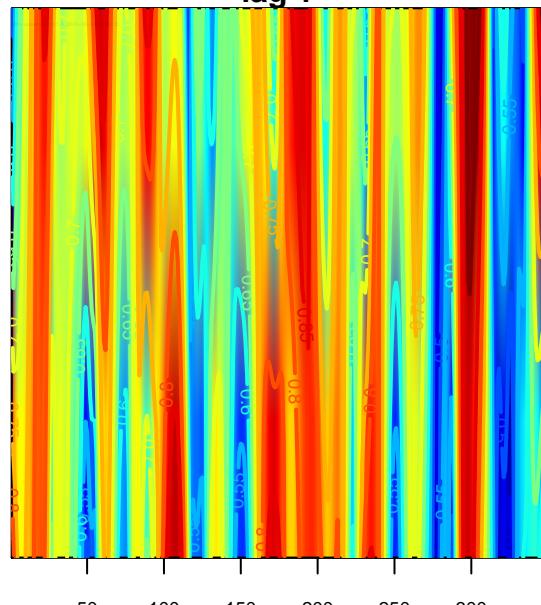
lead 1

smooth



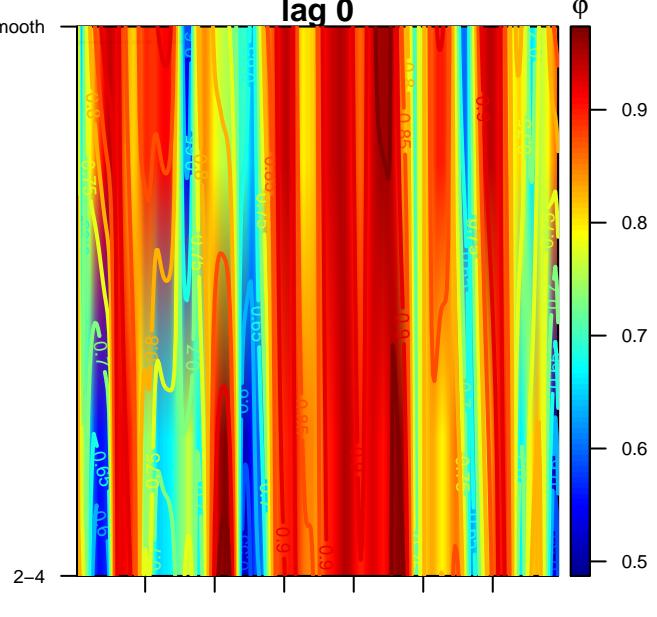
lag 1

smooth



lag 0

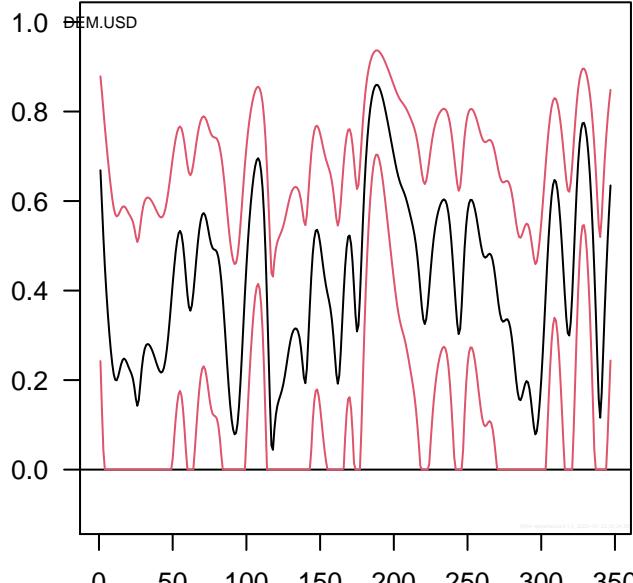
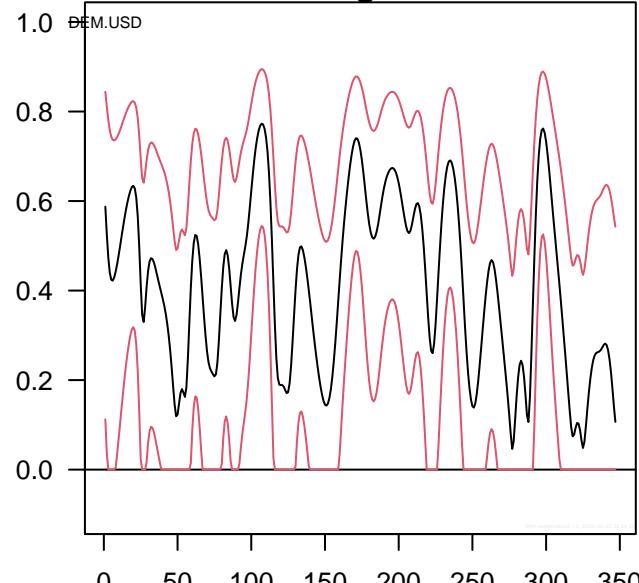
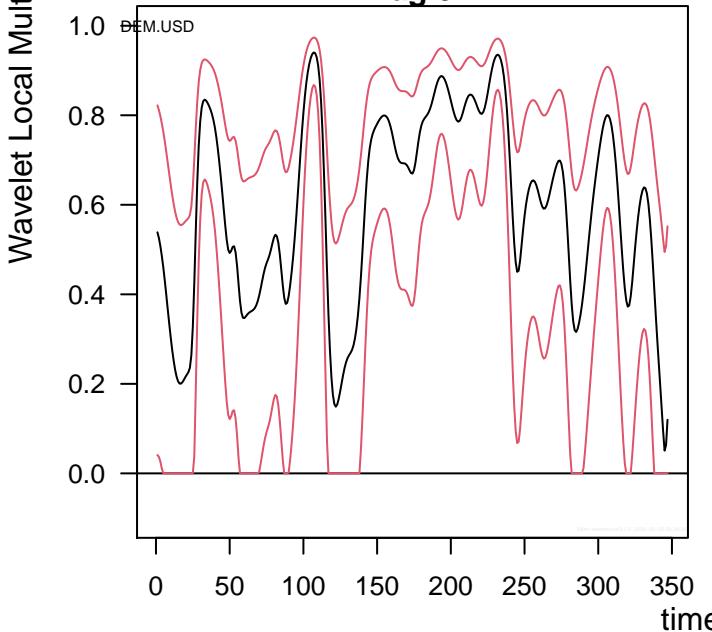
period



level 1

Lead 1

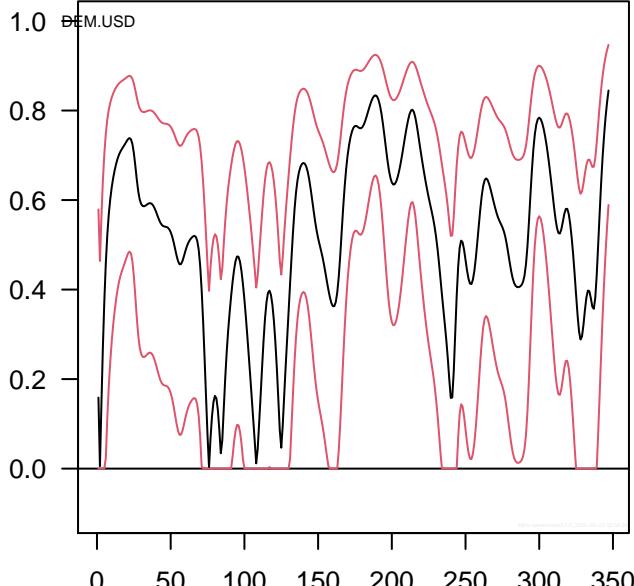
Wavelet Local Multiple Cross-Correlation

**Lag 1****Lag 0**

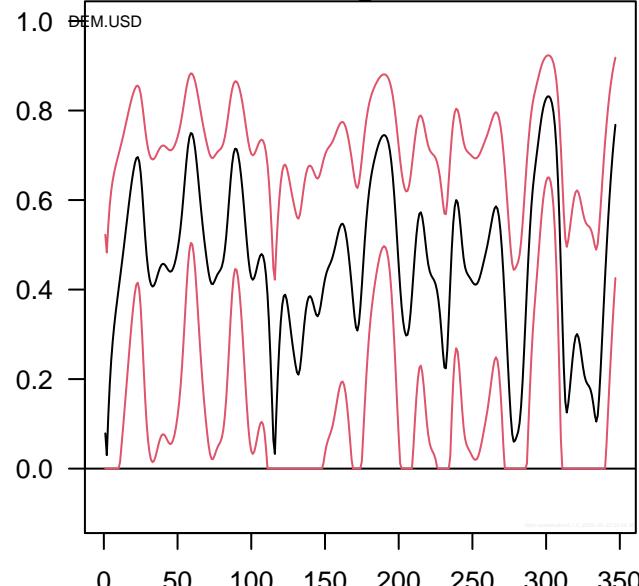
s 1

Lead 1

Wavelet Local Multiple Cross-Correlation

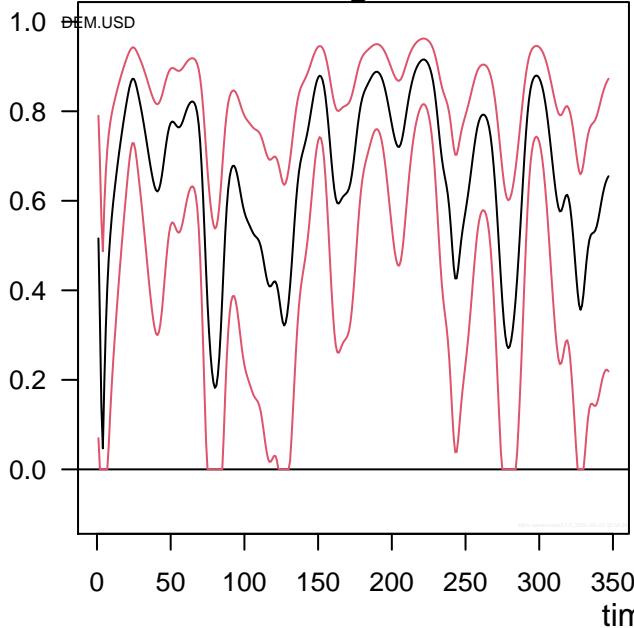


Lag 1



Lag 0

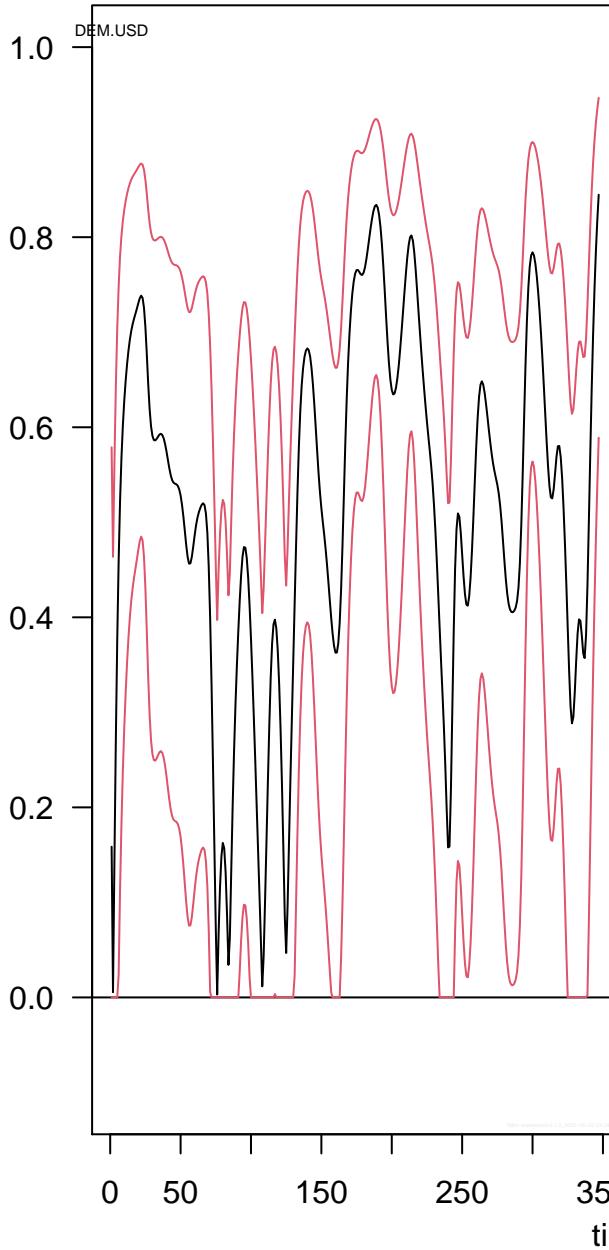
Wavelet Local Multiple Cross-Correlation



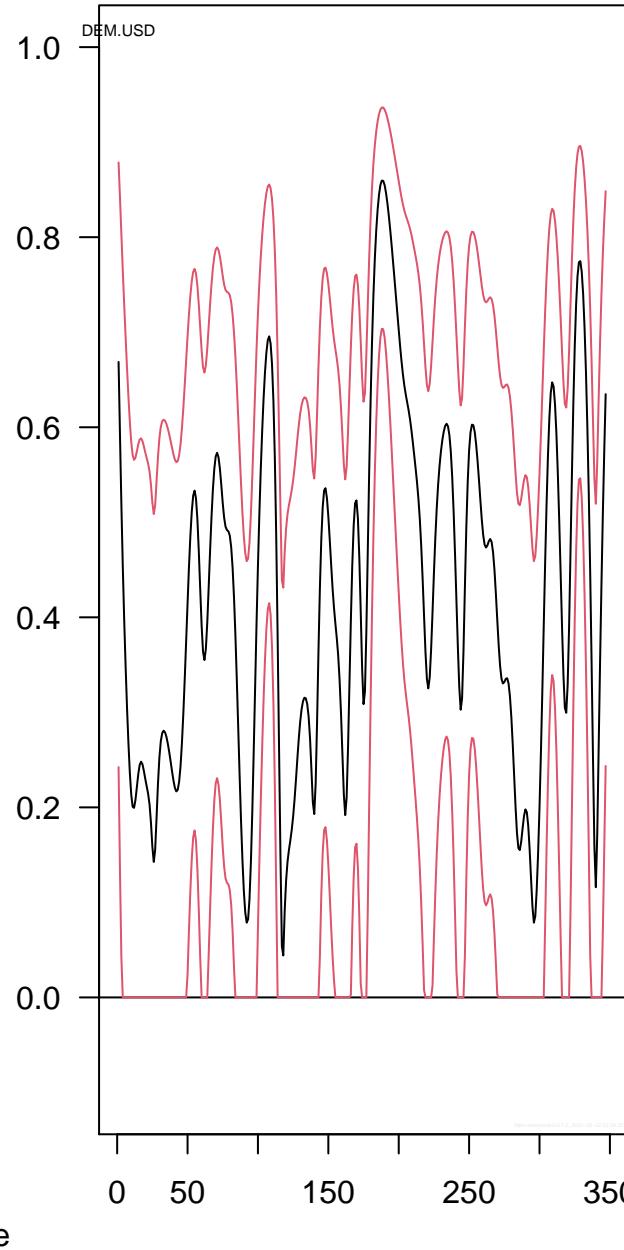
Lead 1

s 1

Wavelet Local Multiple Cross-Correlation



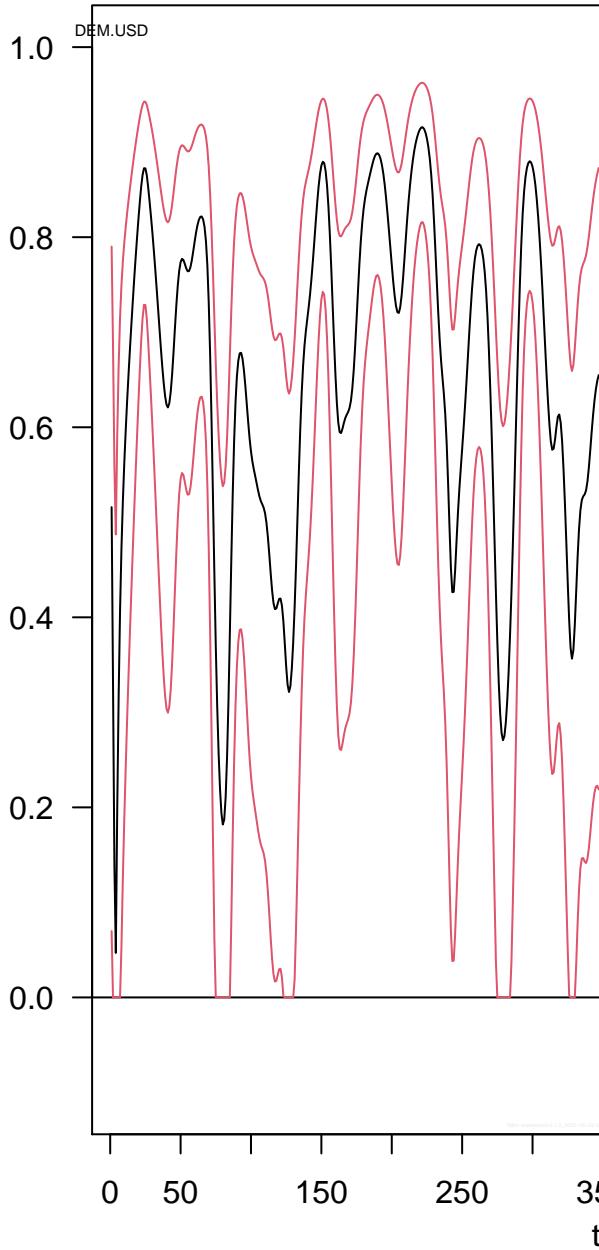
level 1



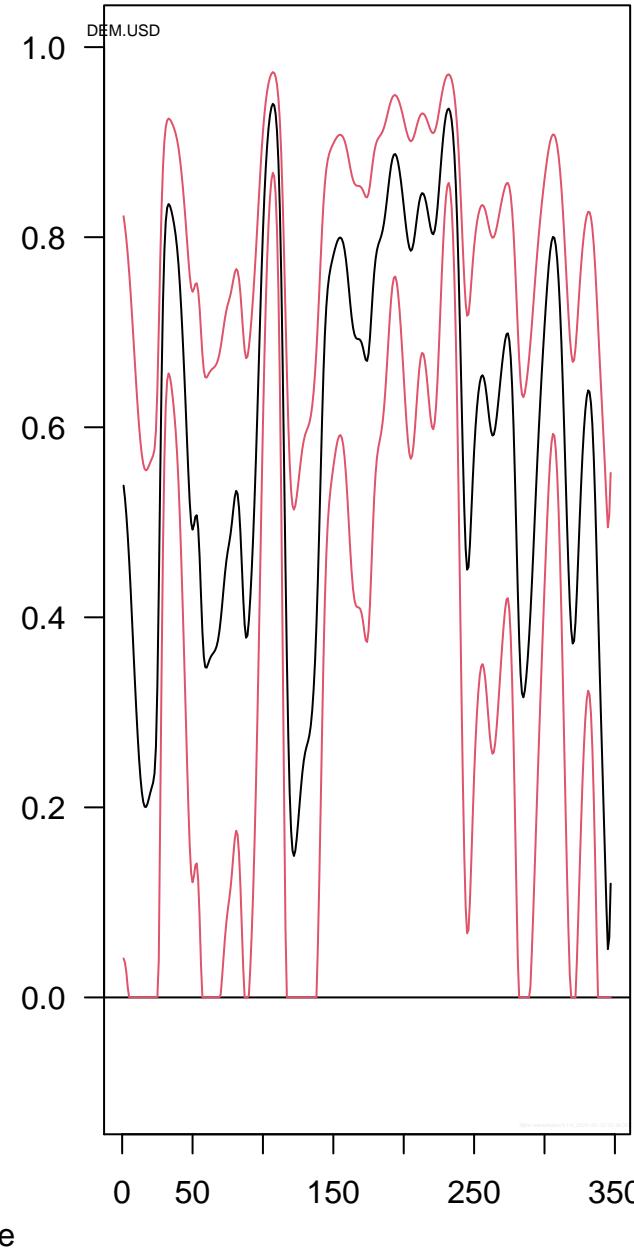
Lag 0

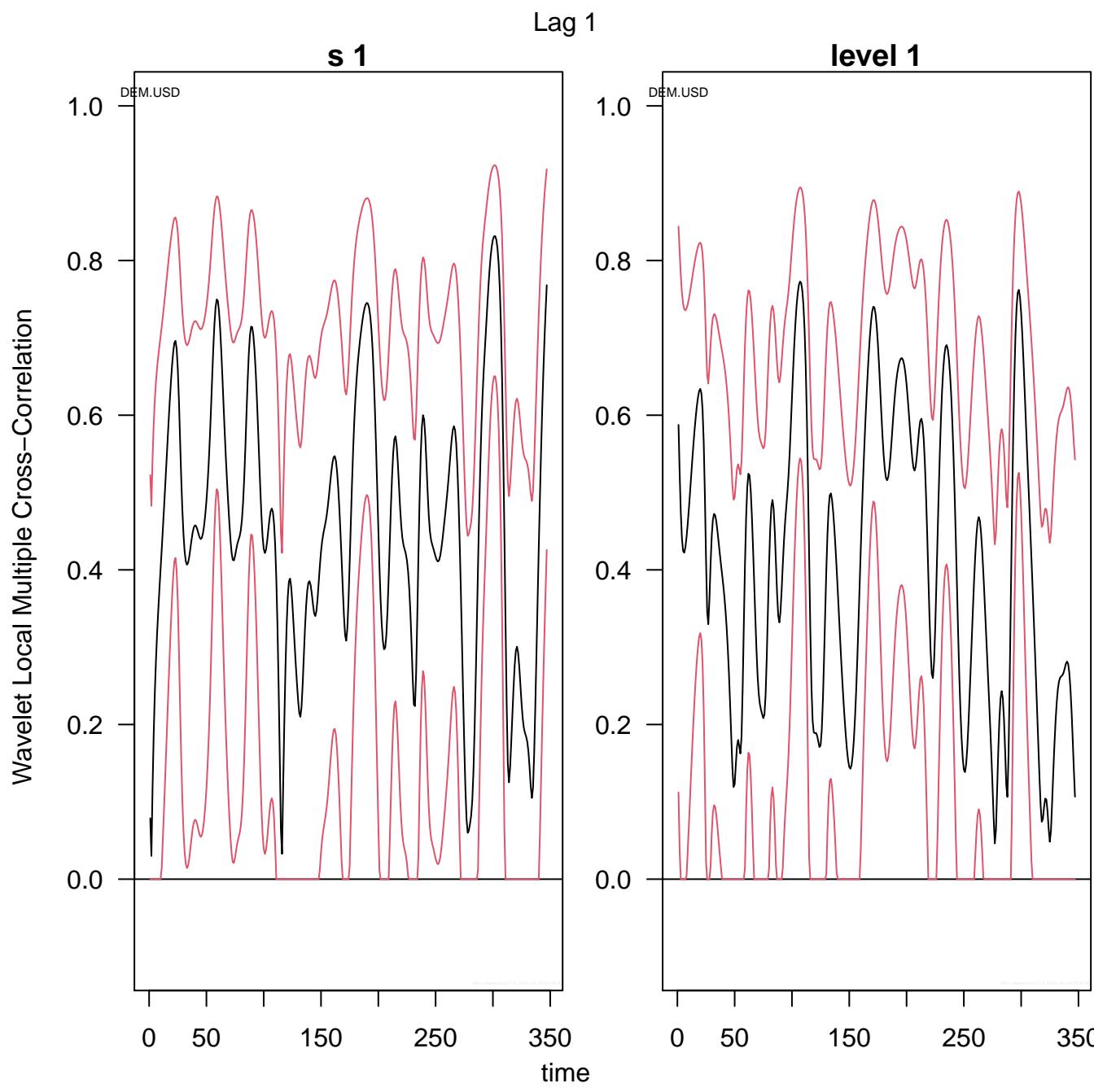
s 1

Wavelet Local Multiple Cross-Correlation

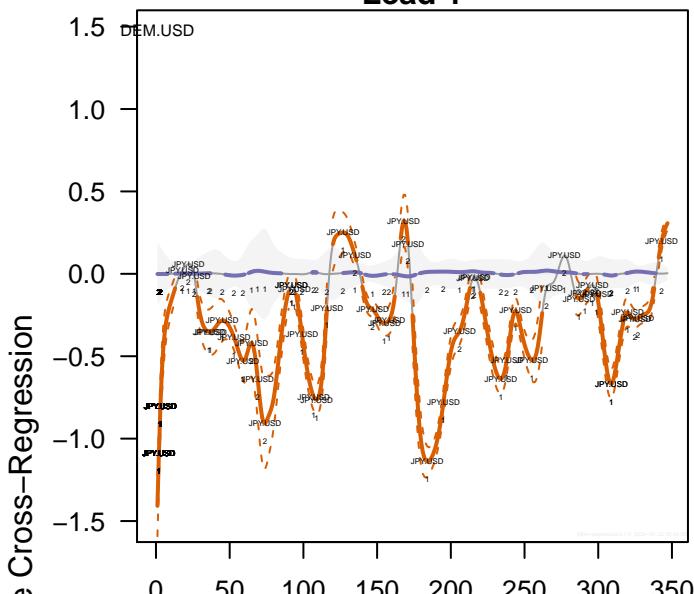
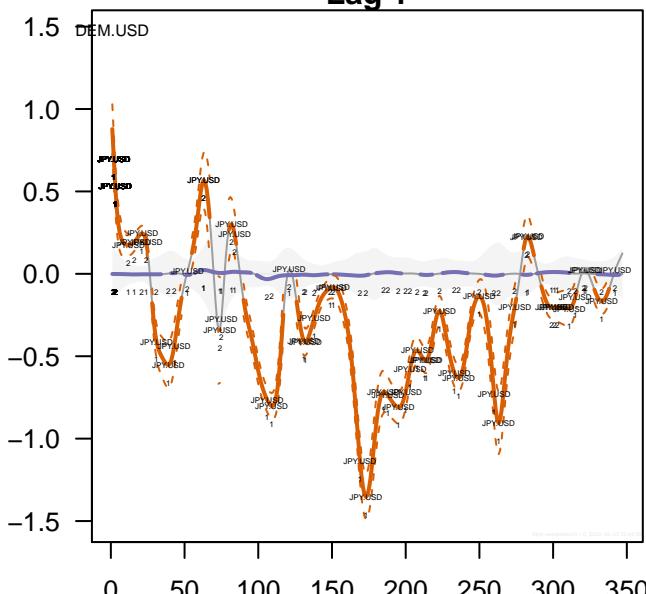
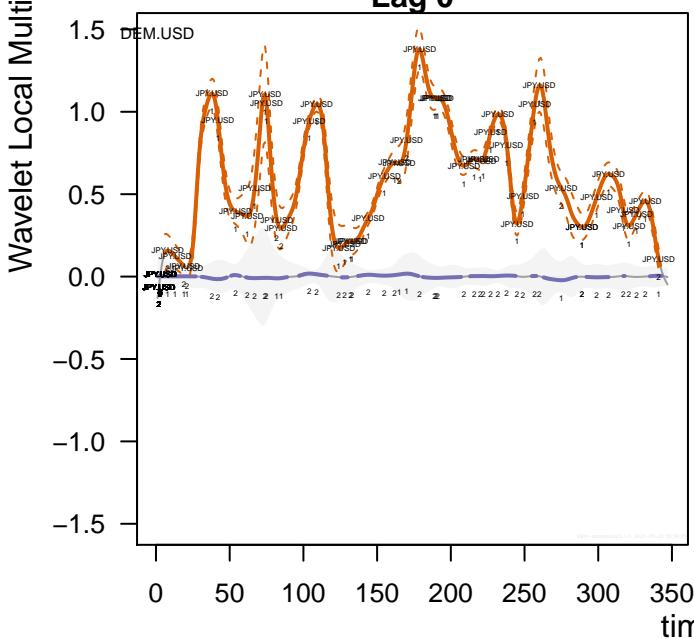


level 1





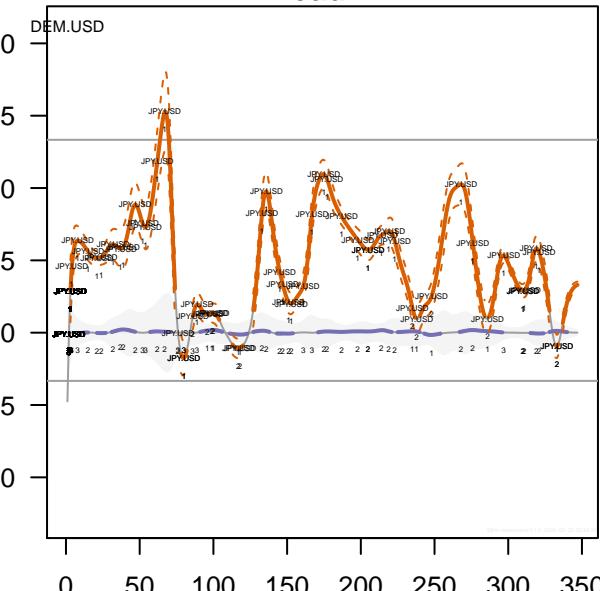
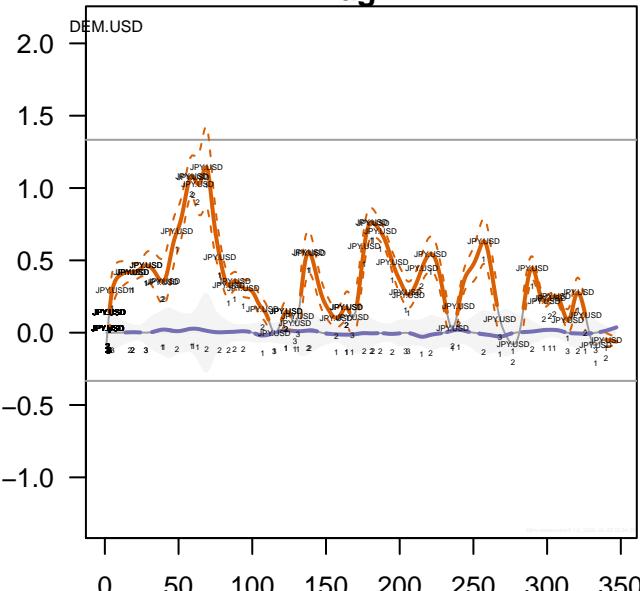
level 1

Lead 1**Lag 1****Lag 0**

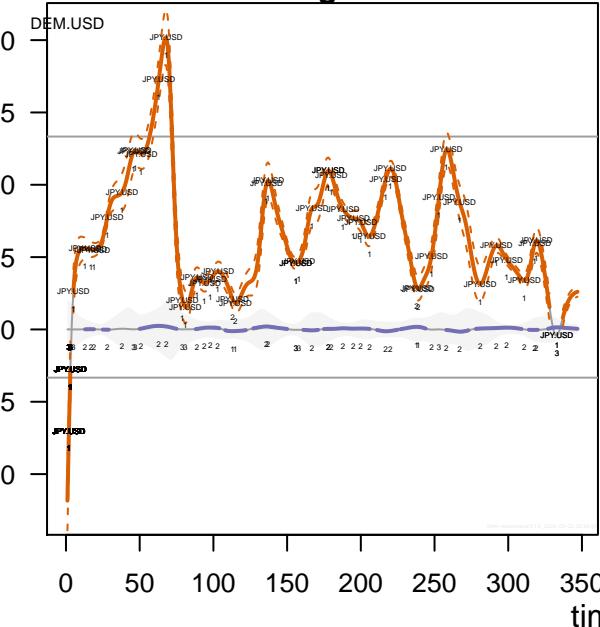
s 1

Lead 1

Wavelet Local Multiple Cross-Regression

**Lag 1****Lag 0**

Wavelet Local Multiple Cross-Regression

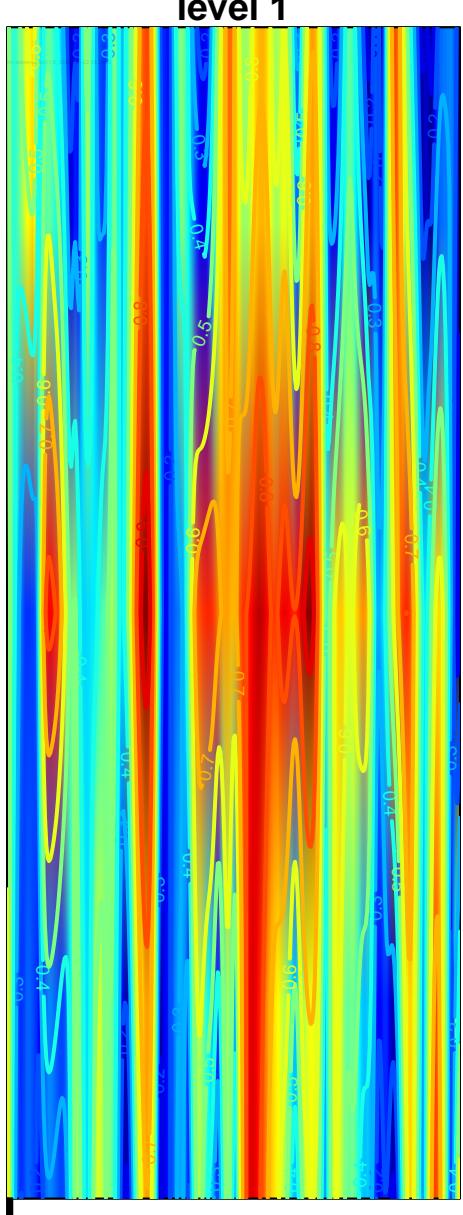
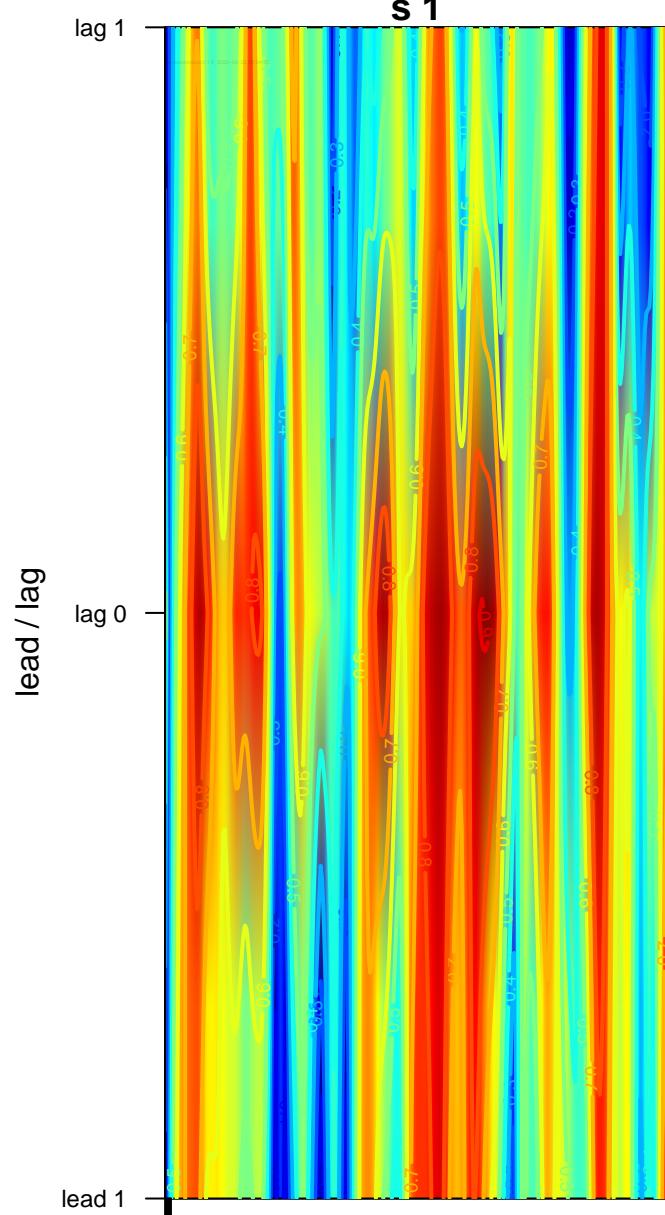


Wavelet Local Multiple Cross–Correlation

s 1

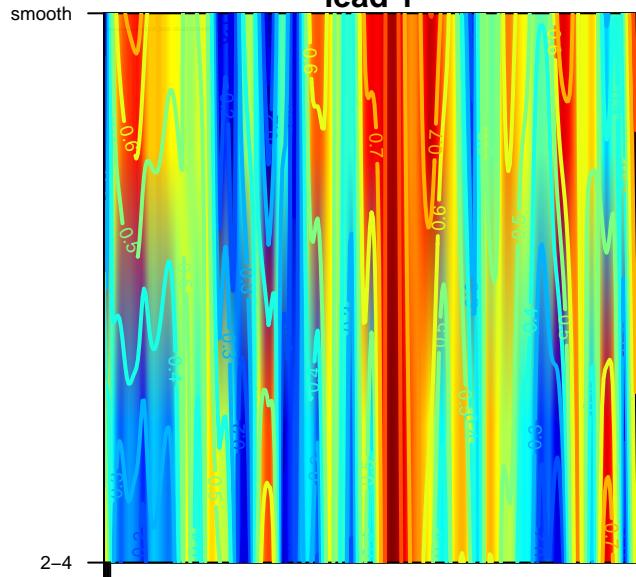
level 1

ϕ

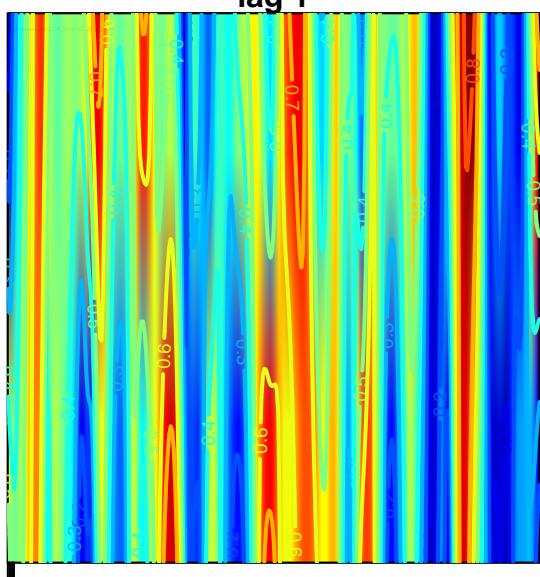


Wavelet Local Multiple Cross-Correlation

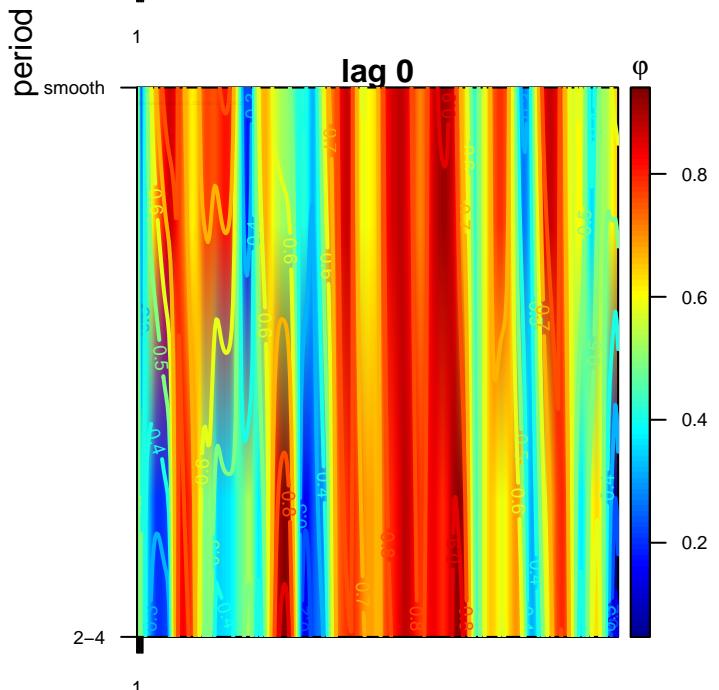
lead 1



lag 1



lag 0

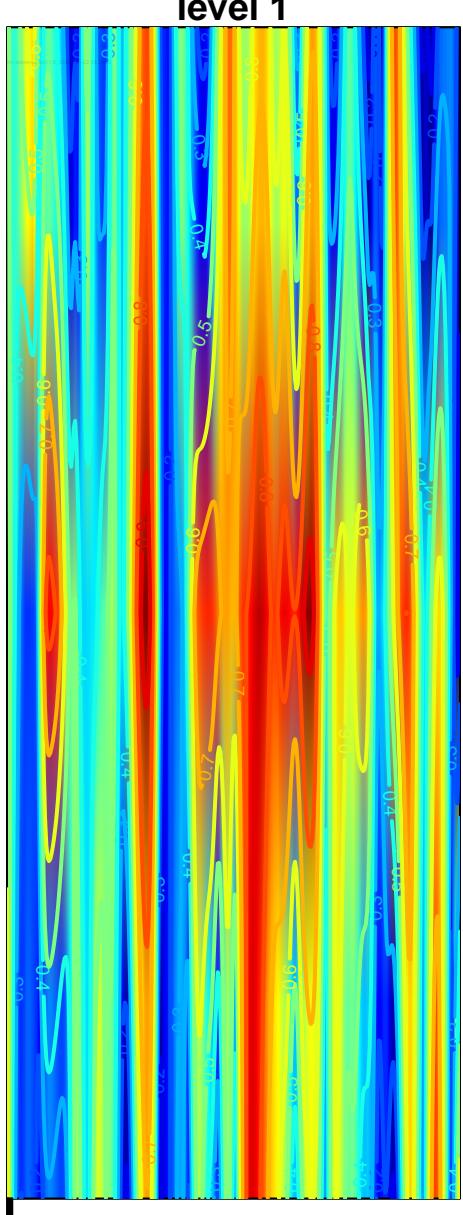
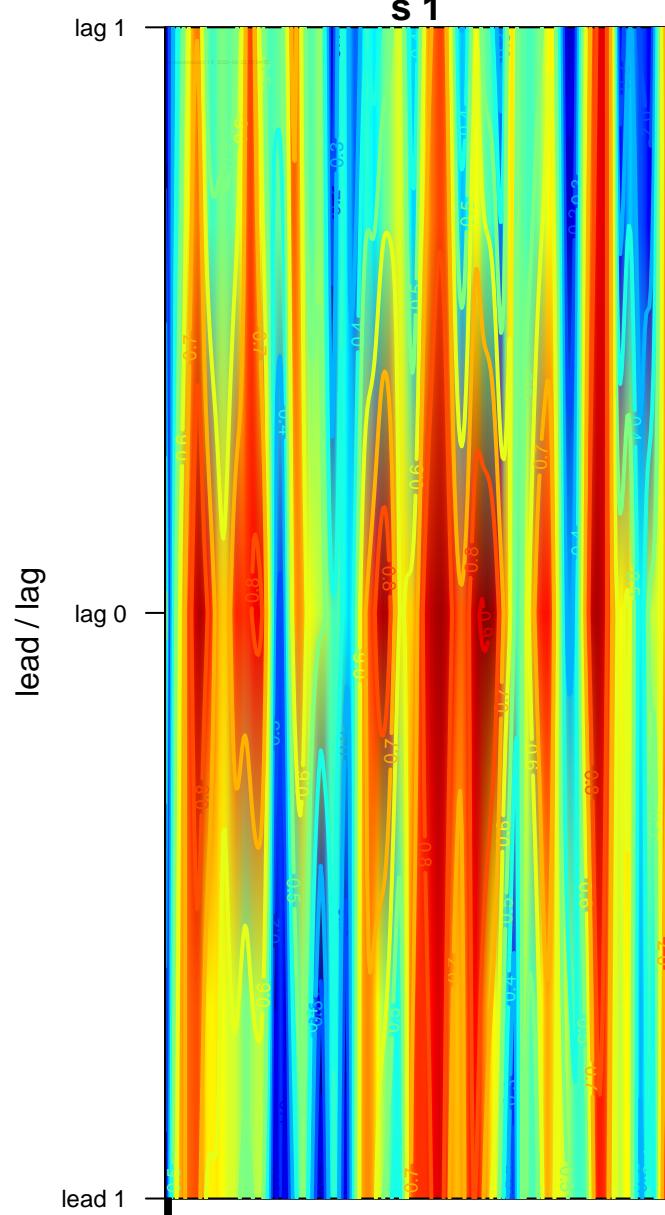


Wavelet Local Multiple Cross–Correlation

s 1

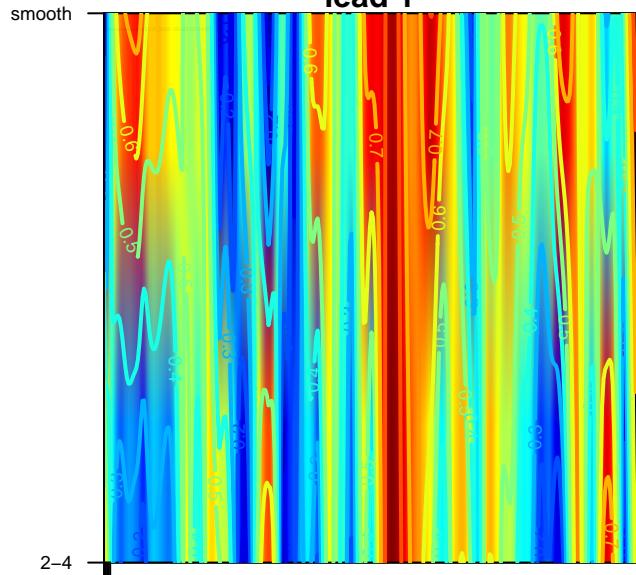
level 1

ϕ

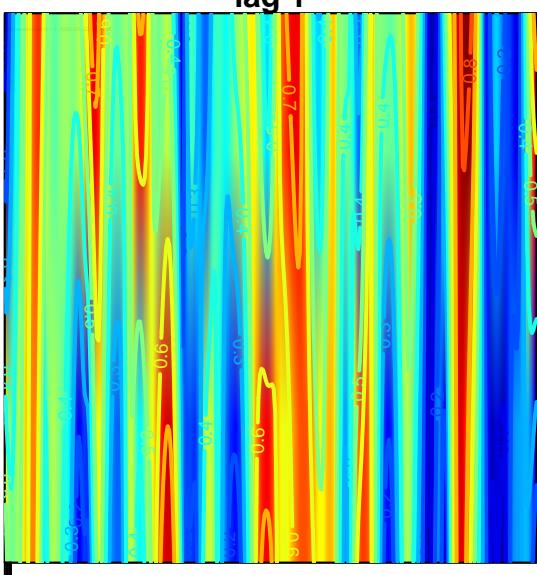


Wavelet Local Multiple Cross-Correlation

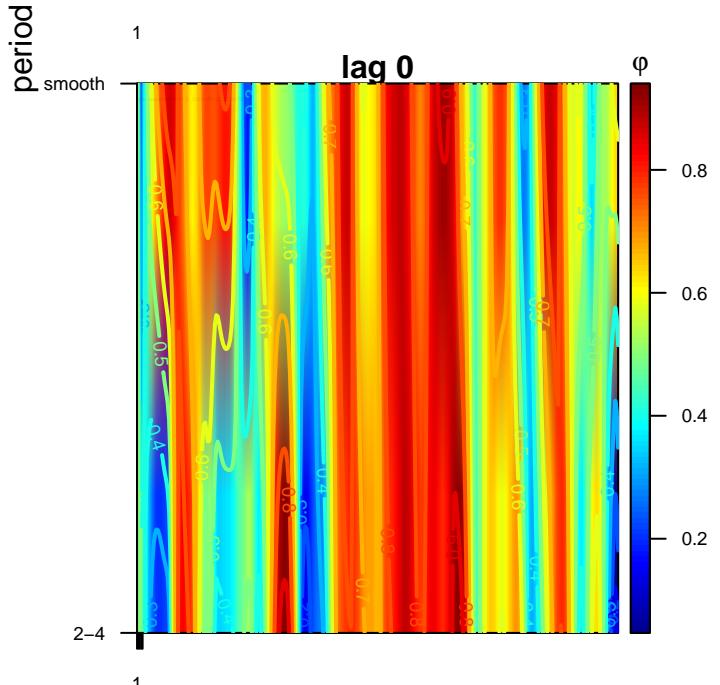
lead 1



lag 1

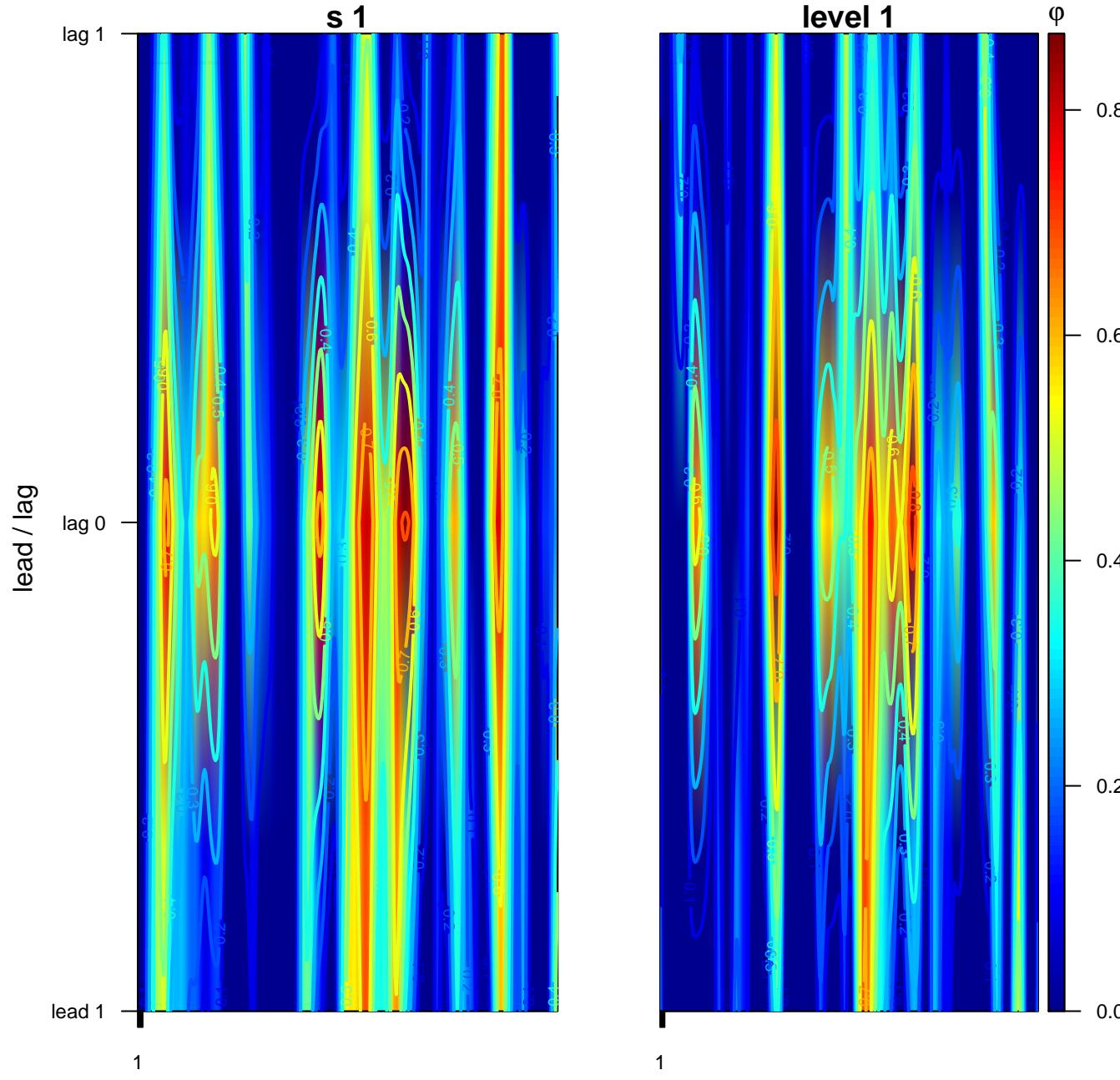


lag 0



1

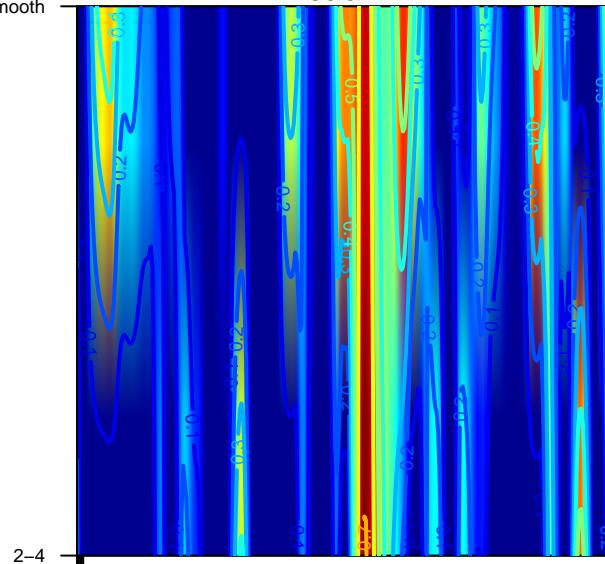
Wavelet Local Multiple Cross-Correlation



Wavelet Local Multiple Cross-Correlation

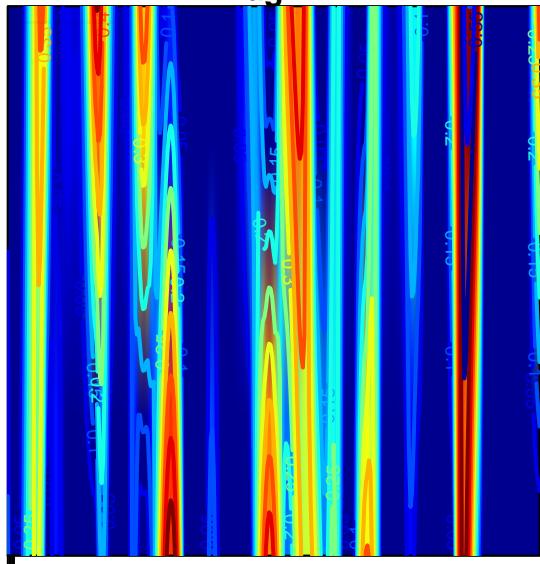
lead 1

smooth



lag 1

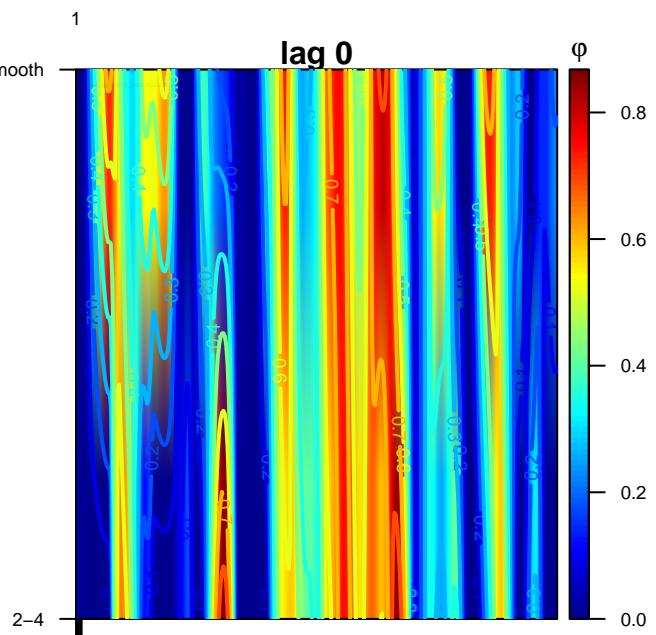
smooth



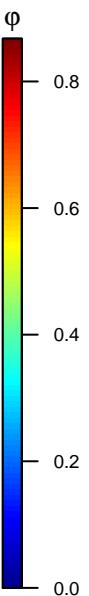
period

smooth

lag 0

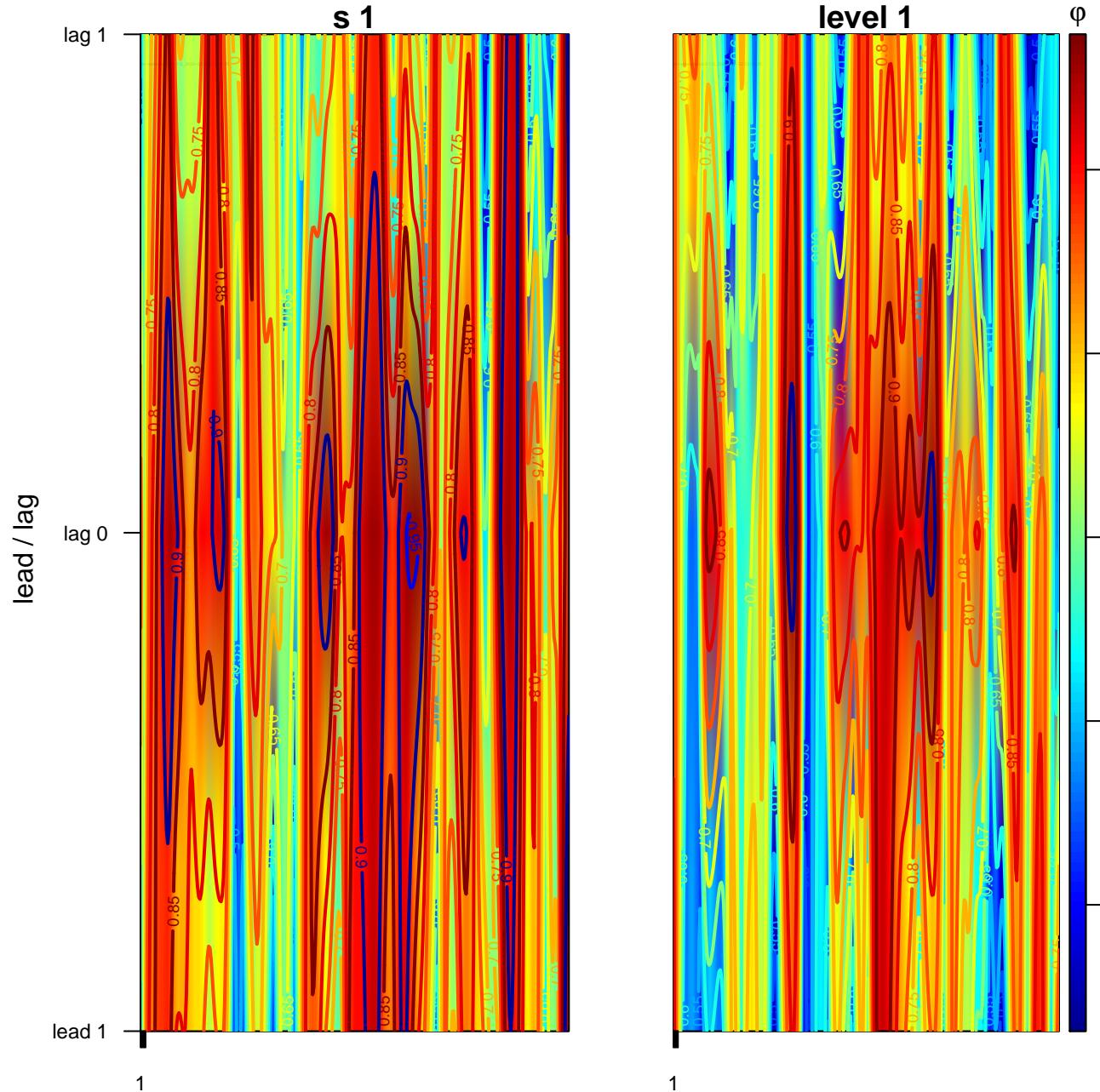


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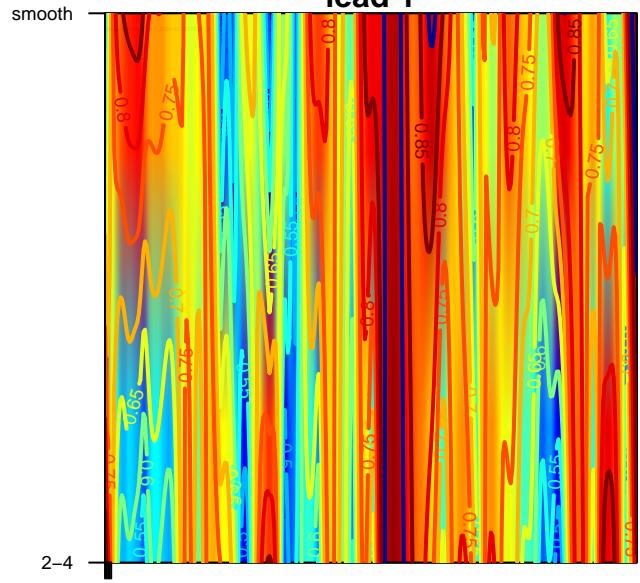
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Wavelet Local Multiple Cross–Correlation

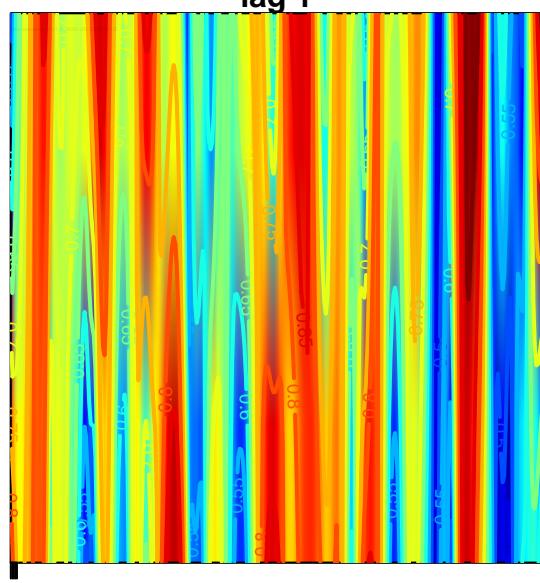


Wavelet Local Multiple Cross-Correlation

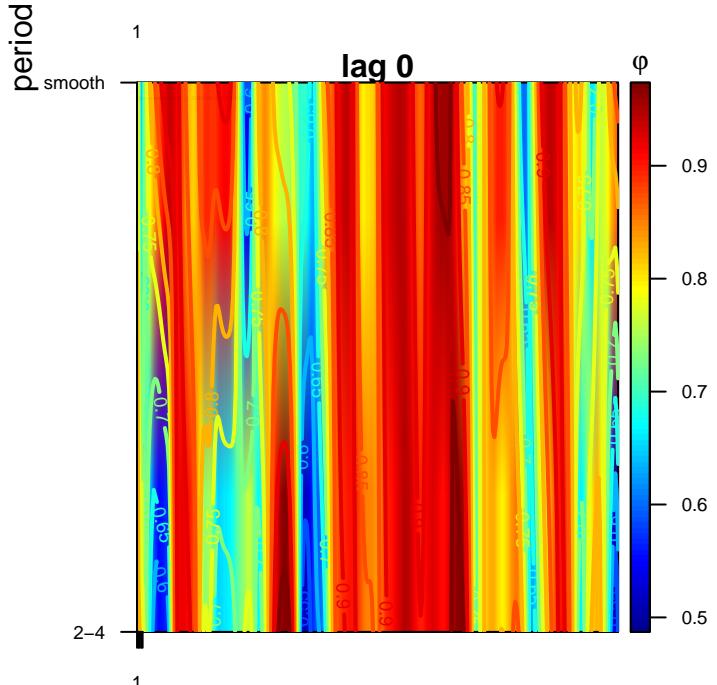
lead 1



lag 1



lag 0

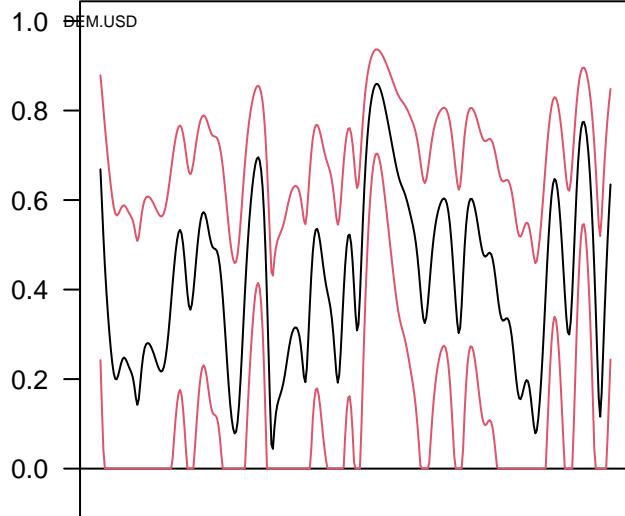
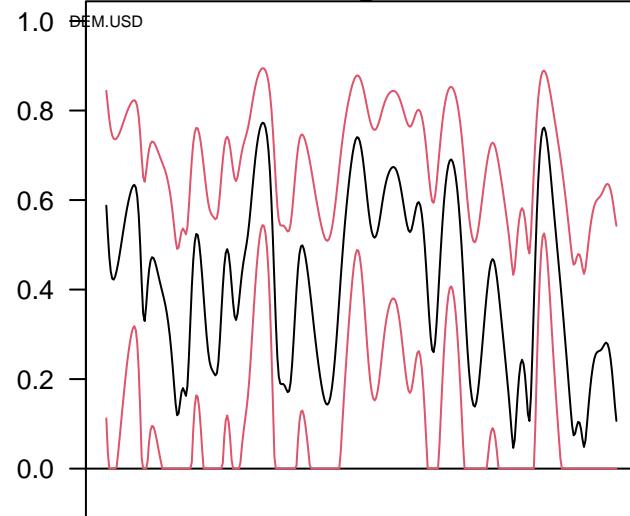


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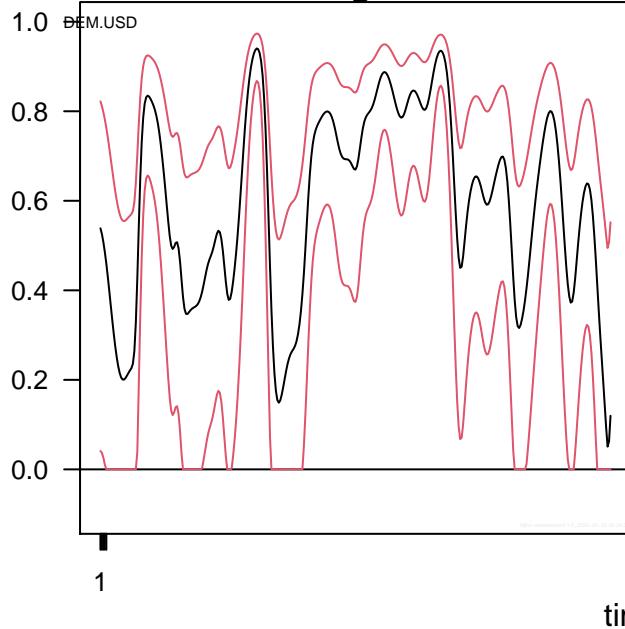
level 1

Lead 1

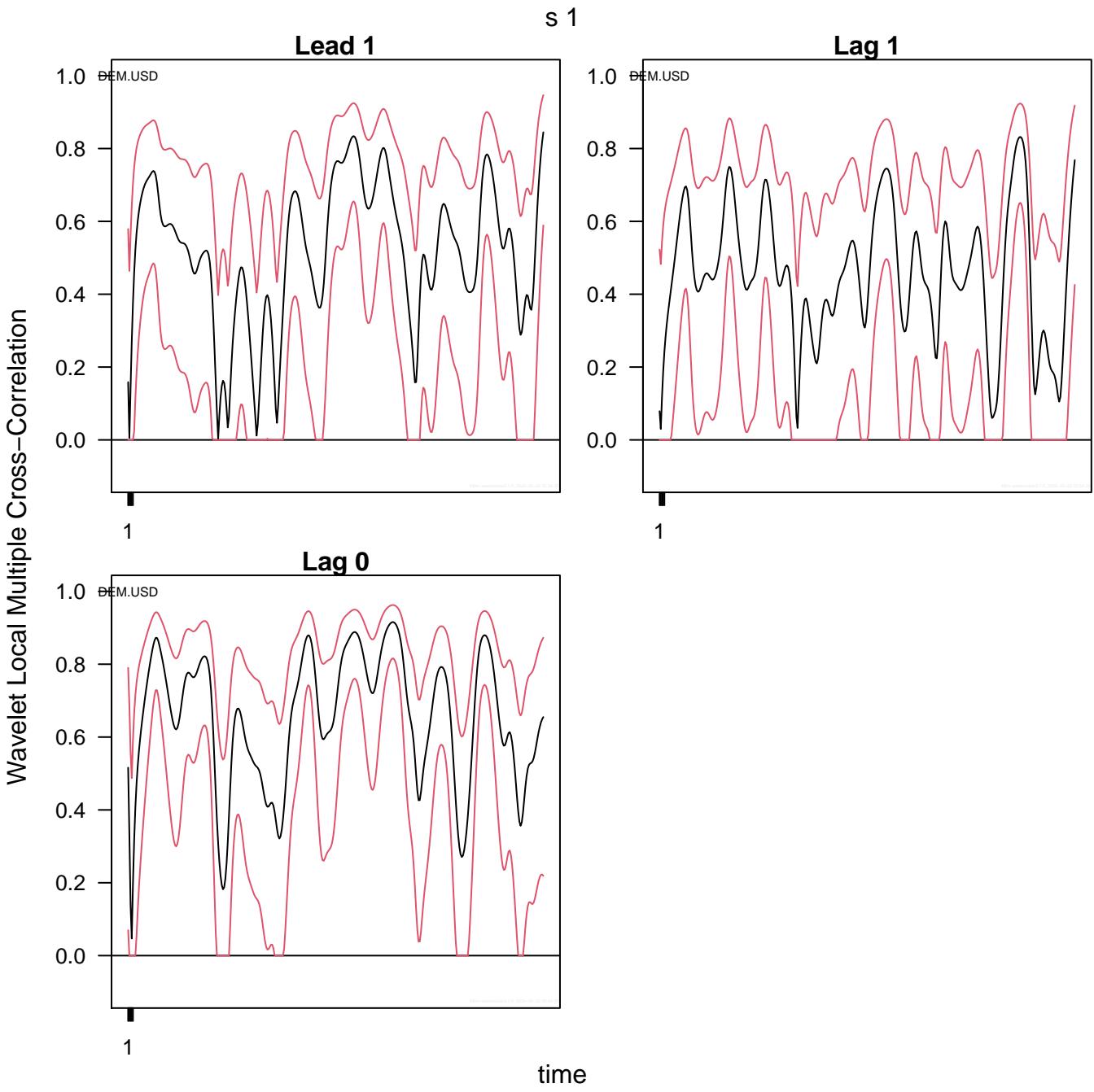
Wavelet Local Multiple Cross-Correlation

**Lag 1****Lag 0**

Wavelet Local Multiple Cross-Correlation



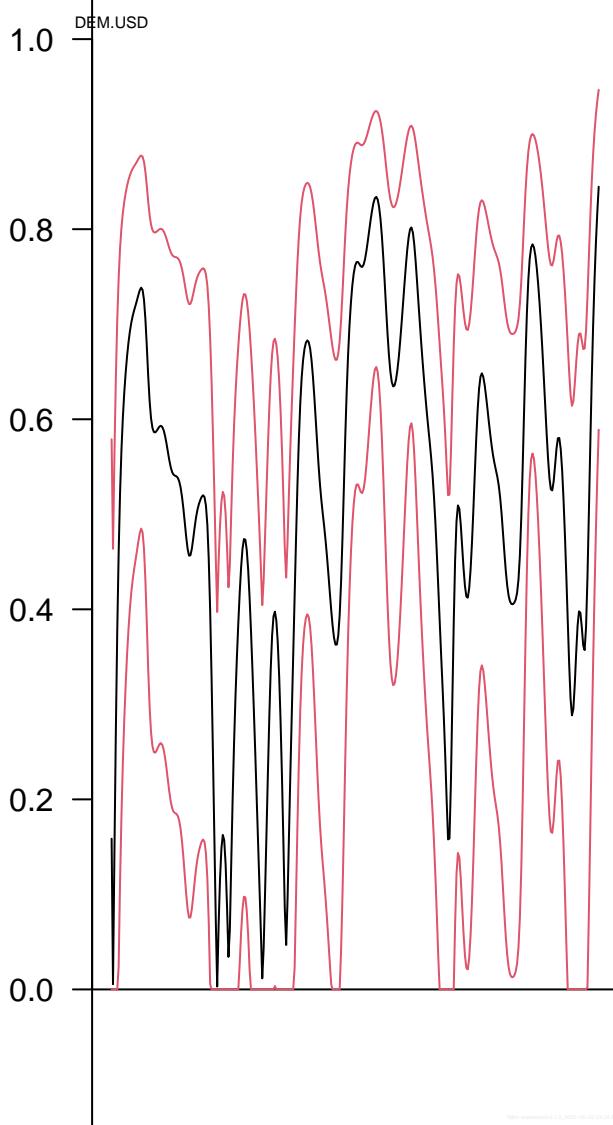
time



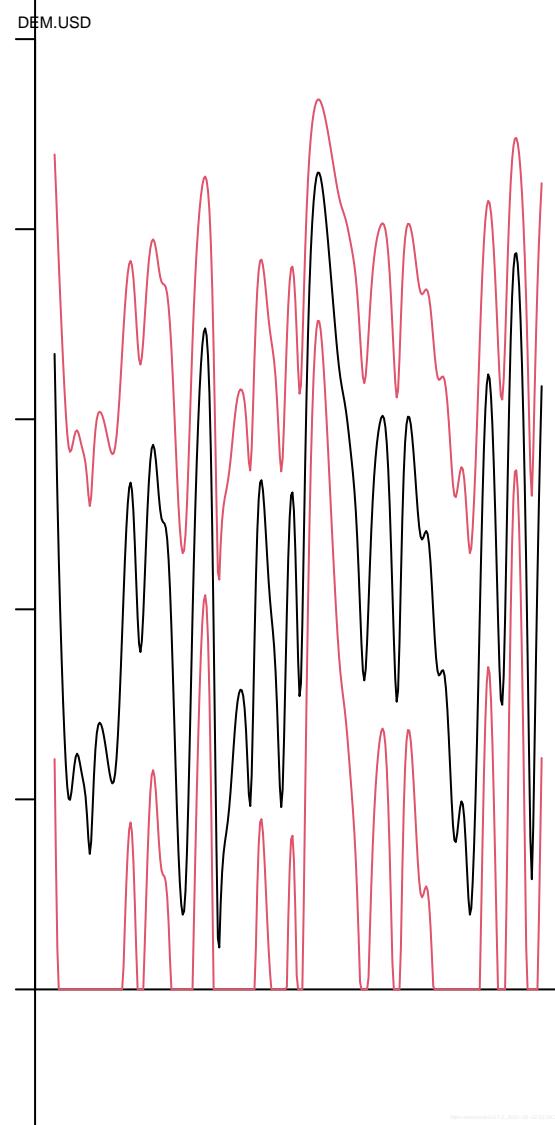
Lead 1

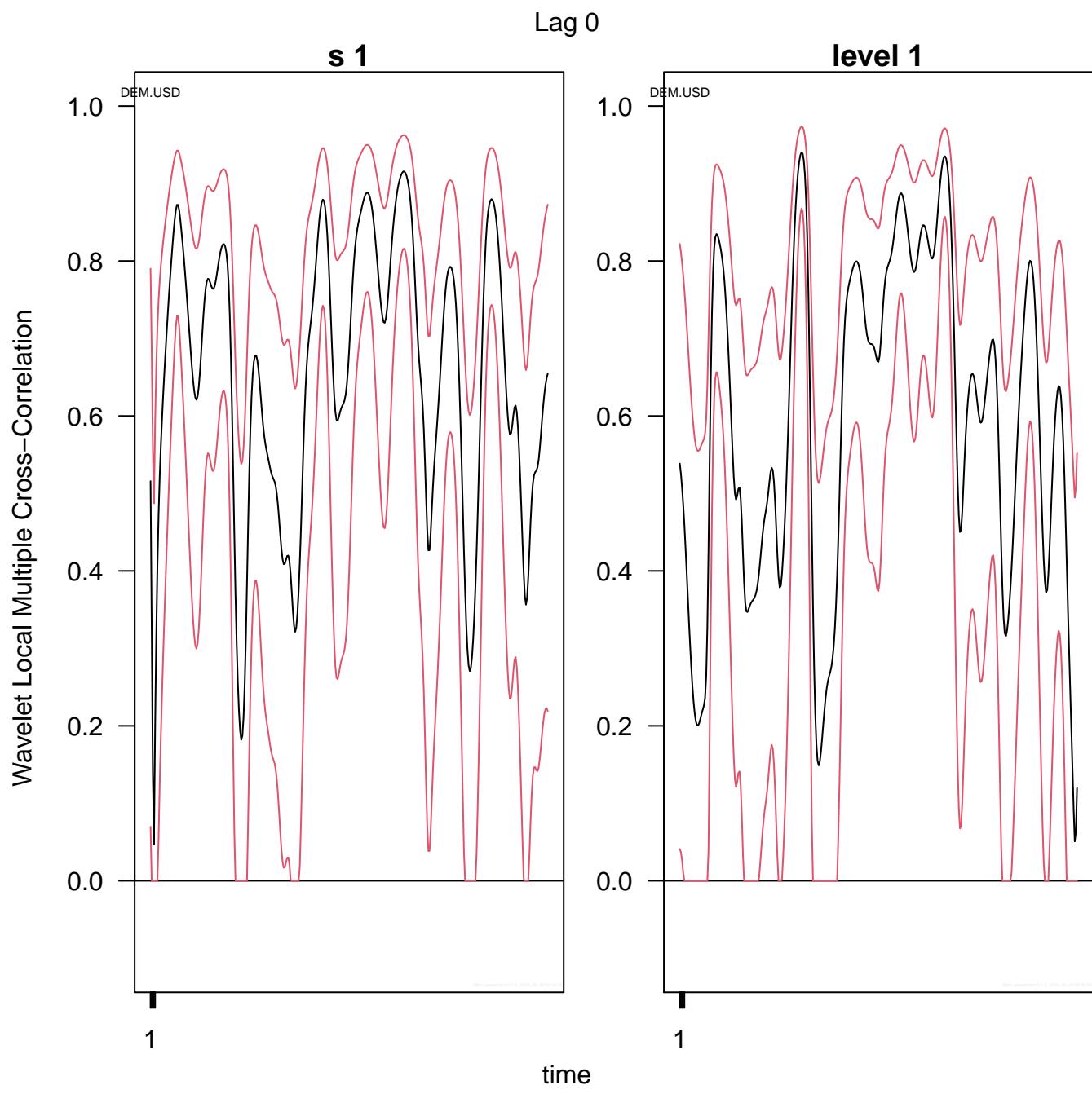
s 1

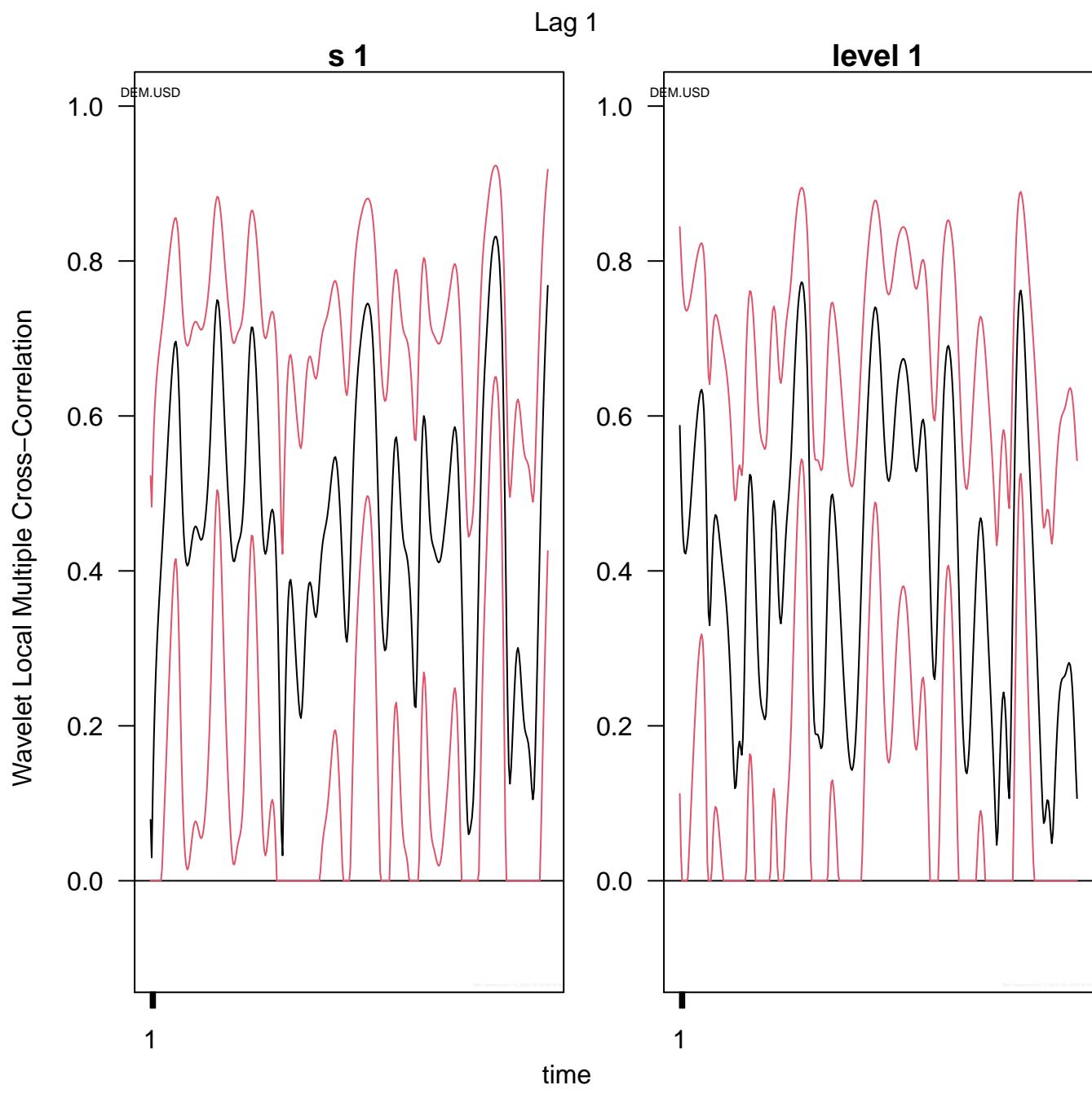
Wavelet Local Multiple Cross-Correlation



level 1



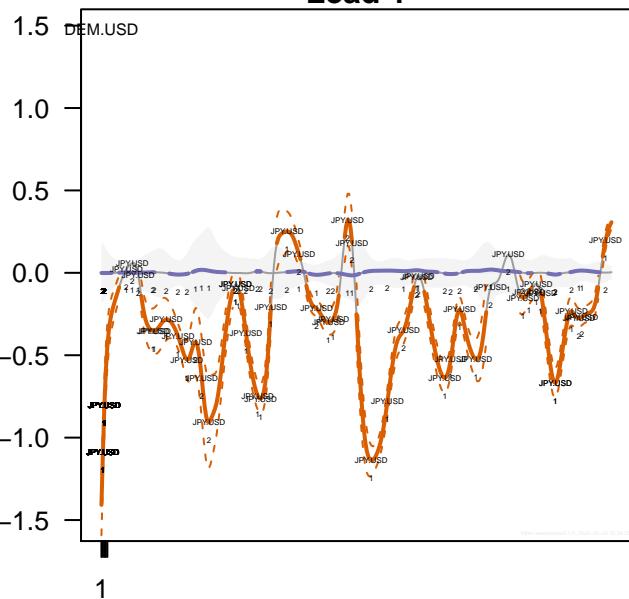
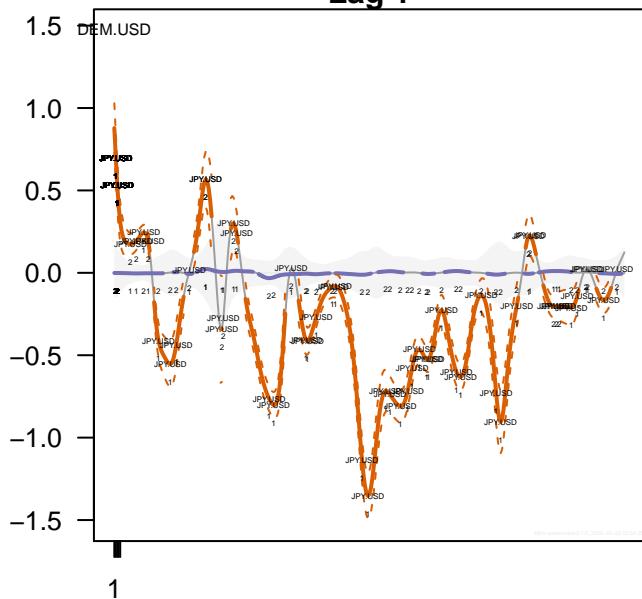




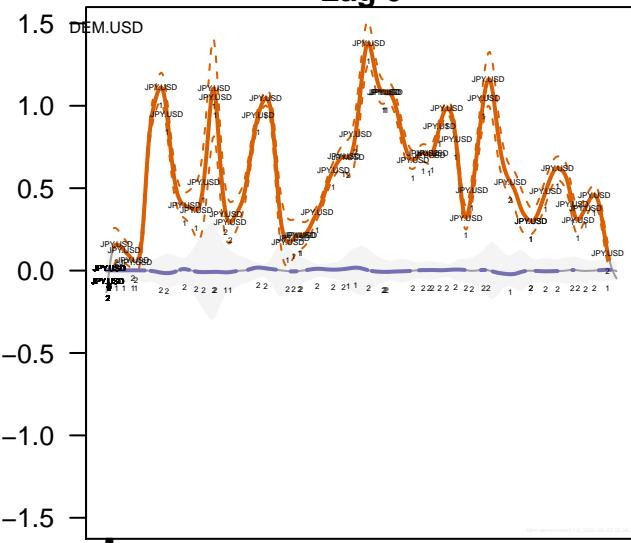
level 1

Lead 1

Wavelet Local Multiple Cross-Regression

**Lag 1****Lag 0**

Wavelet Local Multiple Cross-Regression

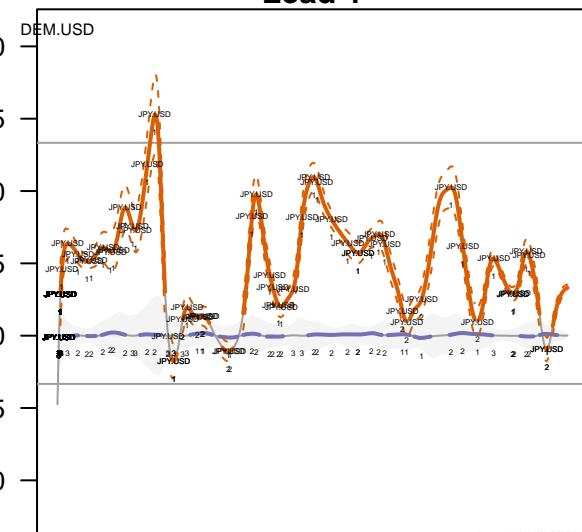
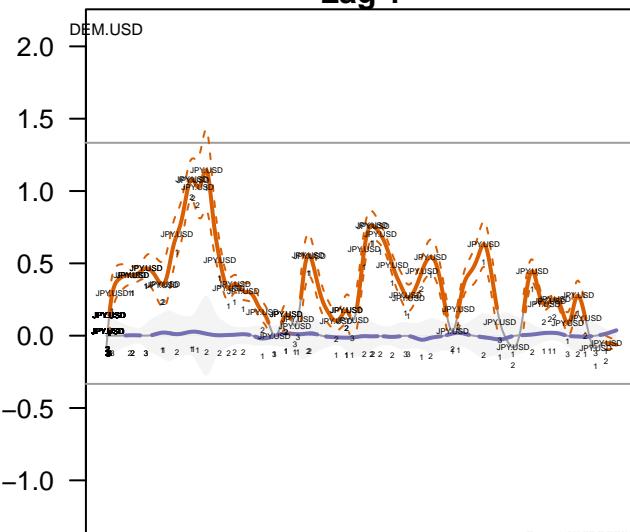


time

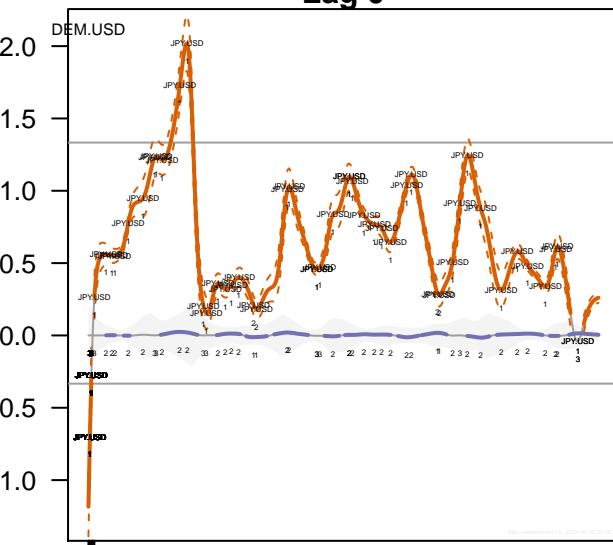
s 1

Lead 1

Wavelet Local Multiple Cross-Regression

**Lag 1****Lag 0**

Wavelet Local Multiple Cross-Regression



time