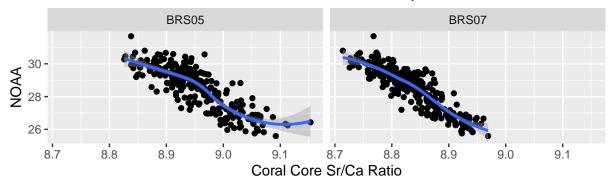
# Coral Core Calibration and Frequency Analysis

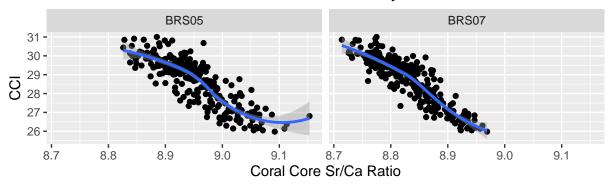
Vanessa Hui Fen Neo

2022-02-18

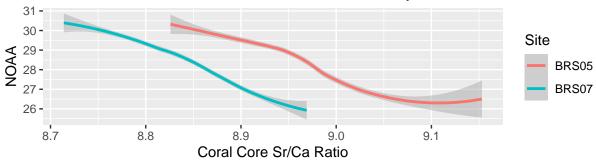
#### Browse Island NOAA SST and Coral Core Proxy



## Browse Island CCI SST and Coral Core Proxy

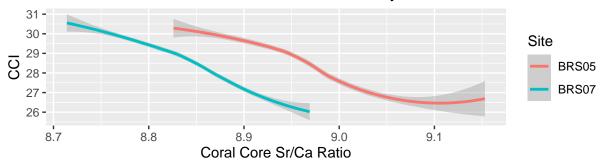


## Browse Island NOAA SST and Coral Core Proxy



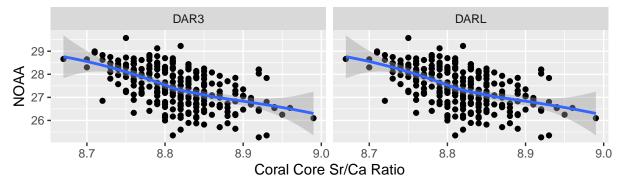
[Range of R Square values is from 0.497 to 0.570]

#### Browse Island CCI SST and Coral Core Proxy

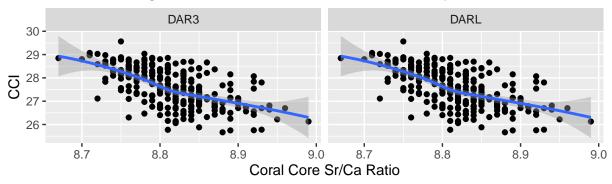


[Range of R Square values is from 0.568 to 0.622]

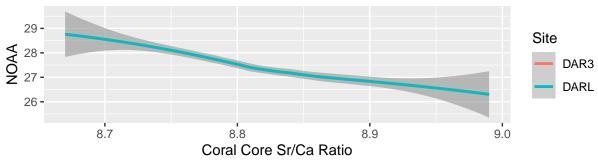
## Cocos Keeling Island NOAA SST and Coral Core Proxy



## Cocos Keeling Island CCI SST and Coral Core Proxy

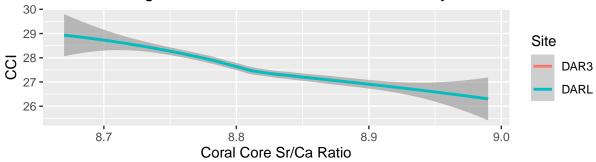


## Cocos Keeling Island NOAA SST and Coral Core Proxy



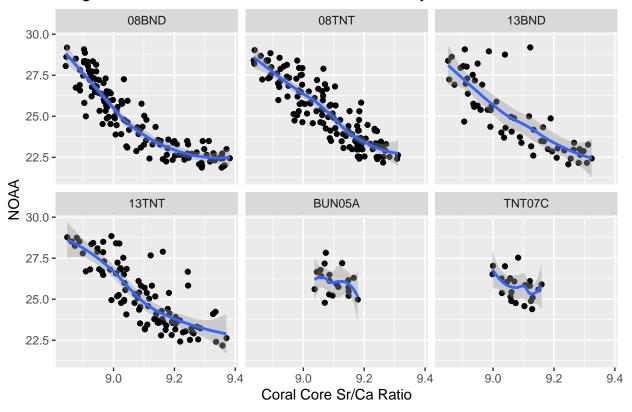
[R Square values for both sites are 0.188]

## Cocos Keeling Island CCI SST and Coral Core Proxy

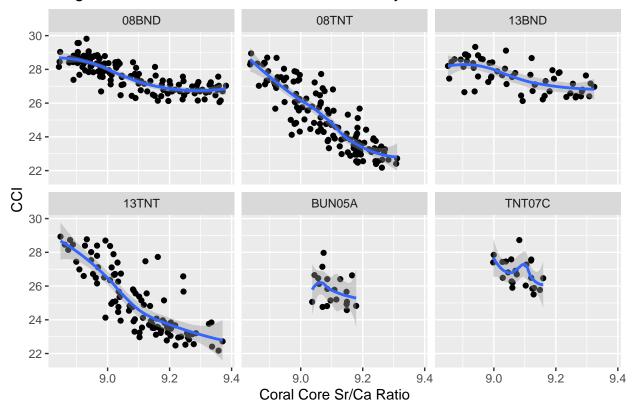


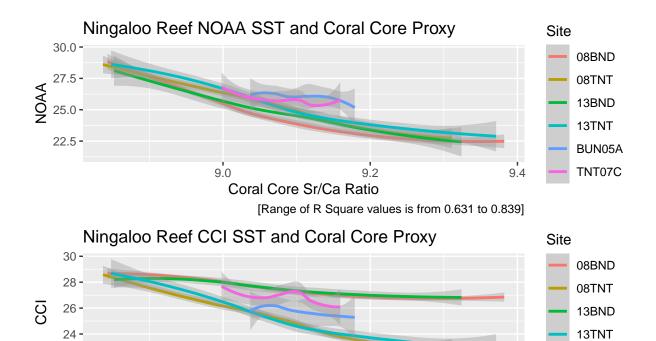
[R Square values for both sites are 0.244]

## Ningaloo Reef NOAA SST and Coral Core Proxy



# Ningaloo Reef CCI SST and Coral Core Proxy





22 -

[Range of R Square values is from 0.320 to 0.668]

9.2

Coral Core Sr/Ca Ratio

9.0

BUN05A

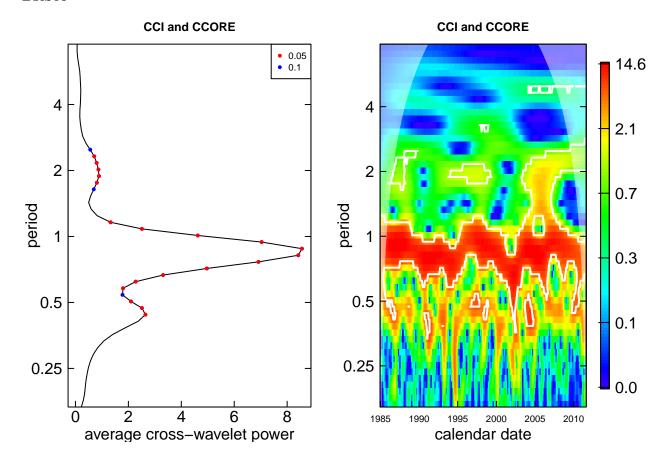
TNT07C

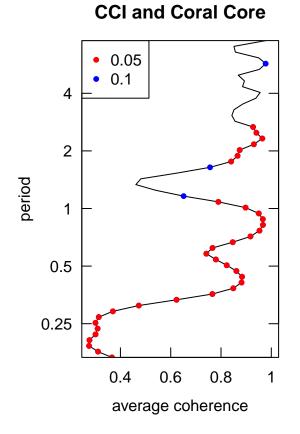
9.4

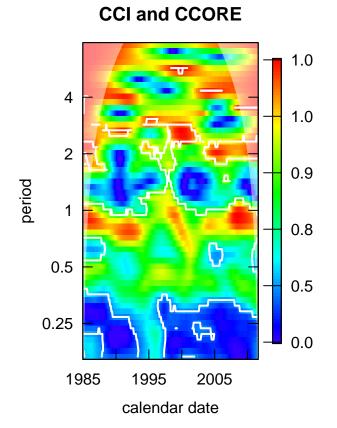
Frequency Analysis - Spectral Analysis of Time Series for  $\mathrm{Sr/Ca}$  Coral Proxy sites

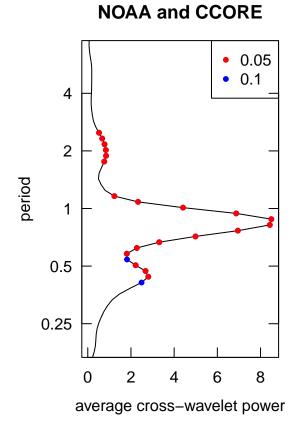
Monthly Coral Core Proxy Sites - Period of 1 represents 1 year

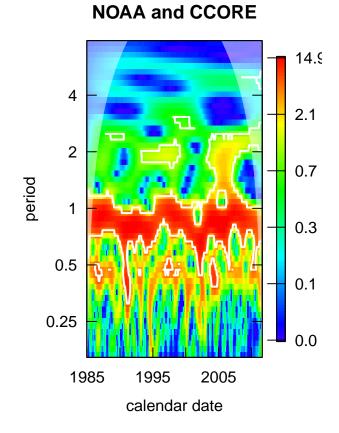
#### BRS05

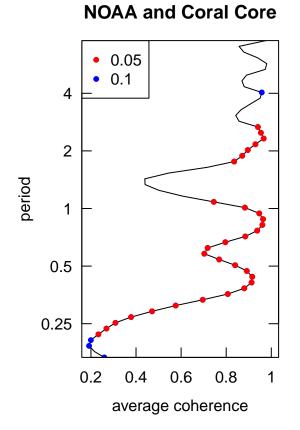


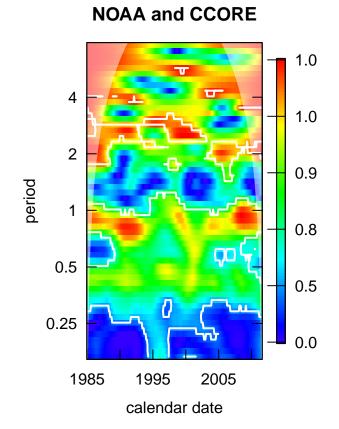


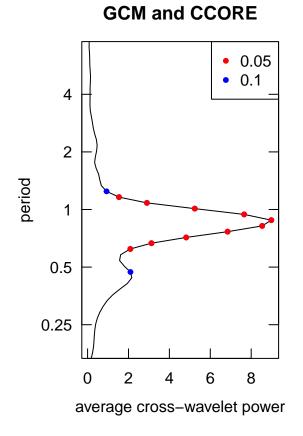


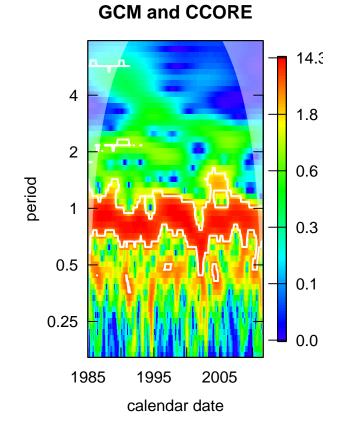


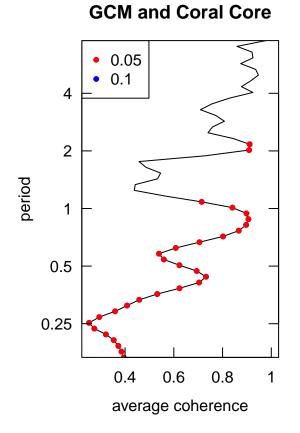


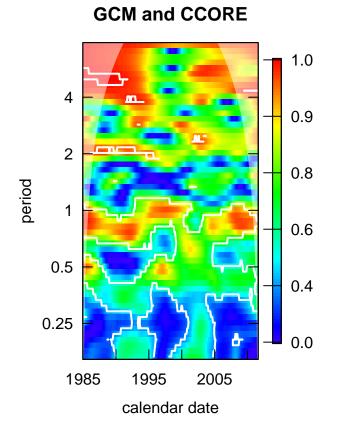


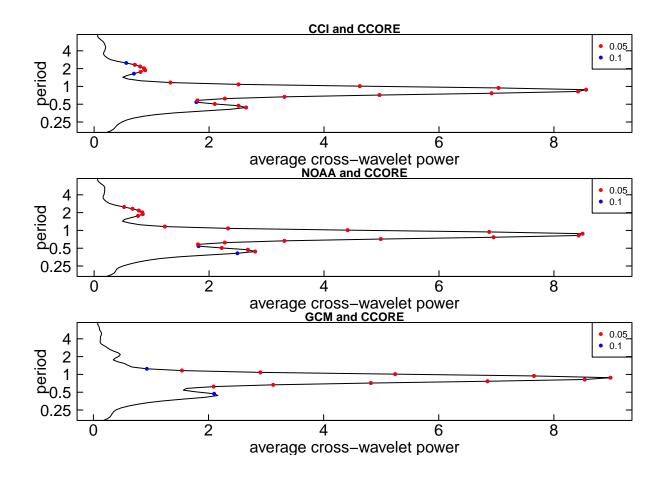




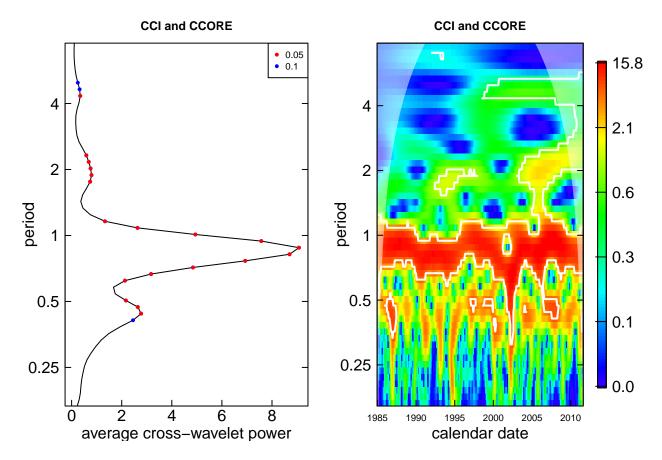


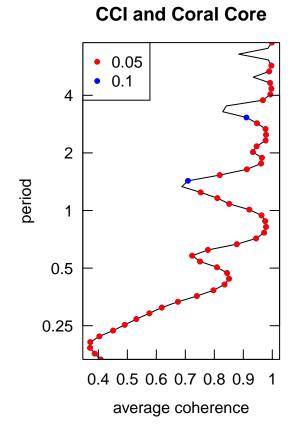


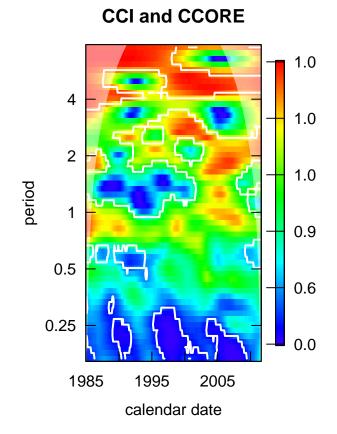


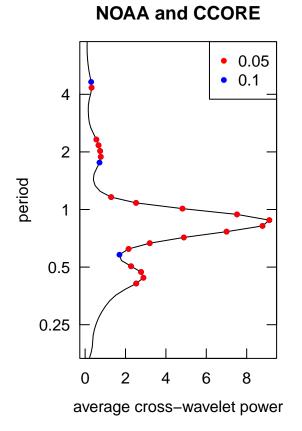


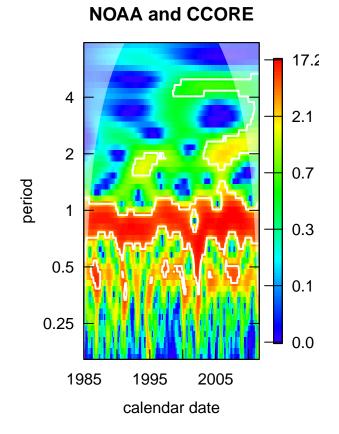
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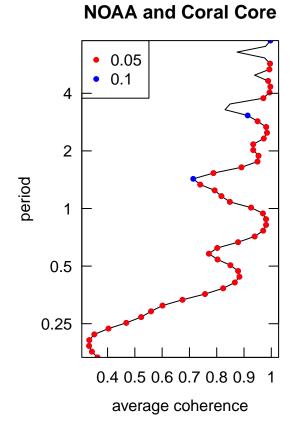


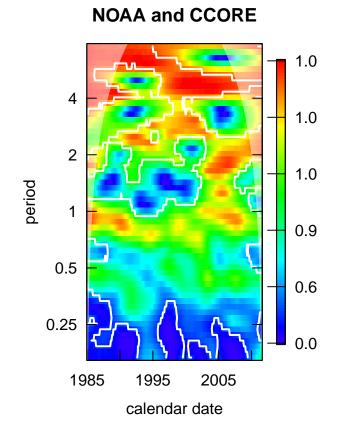


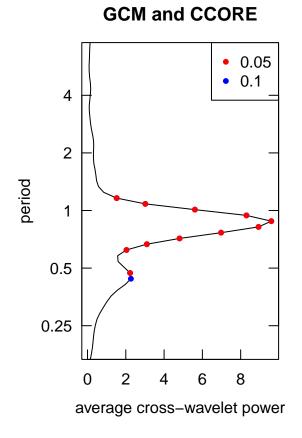


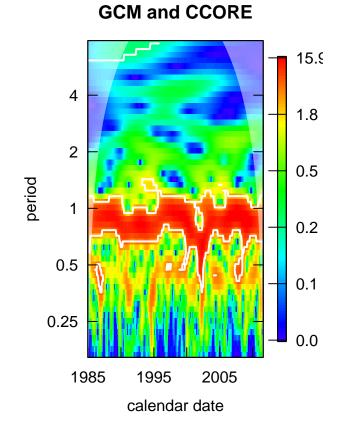


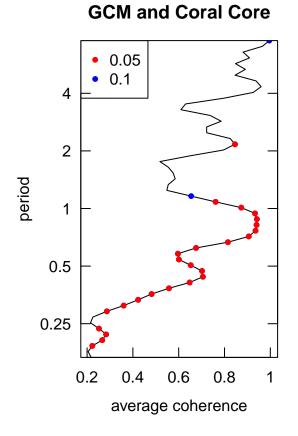


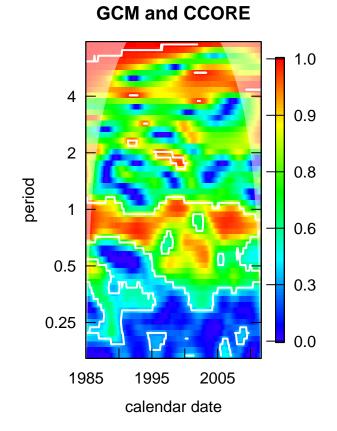


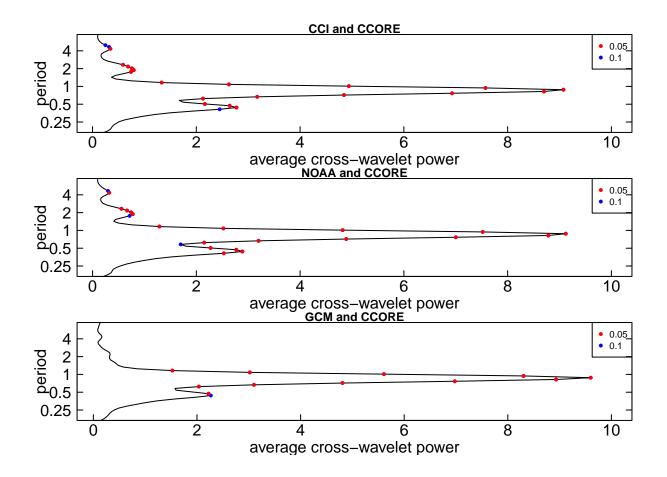




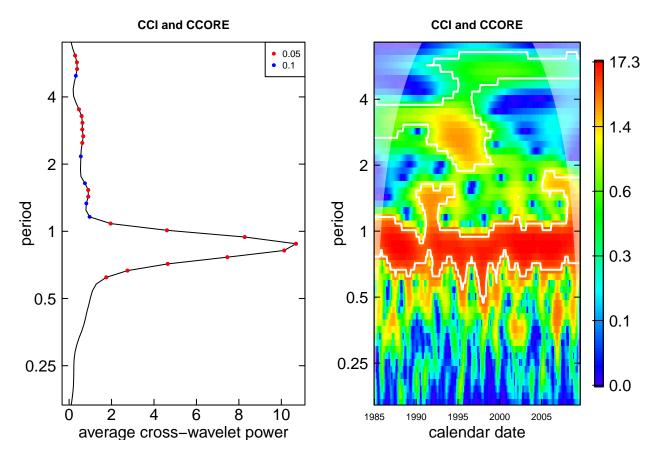


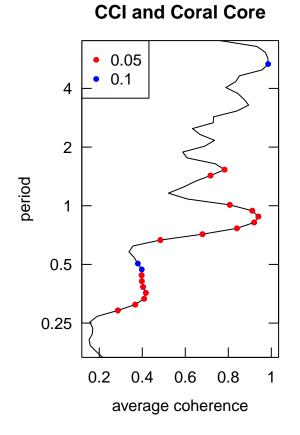


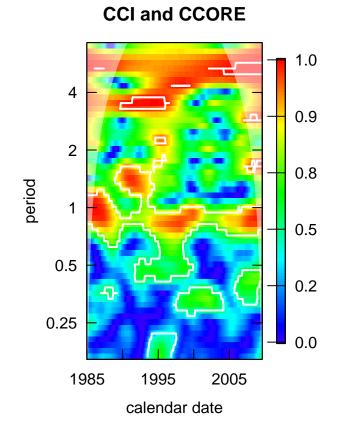


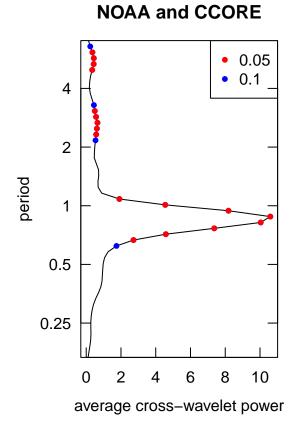


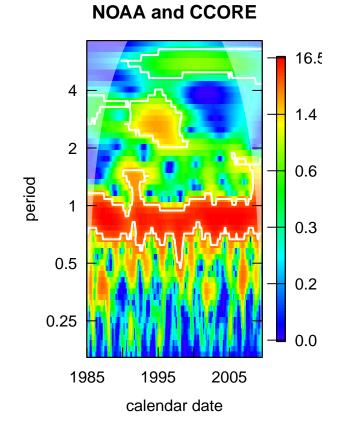
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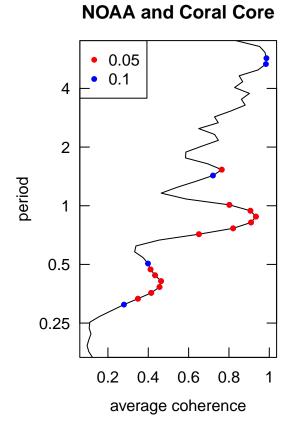


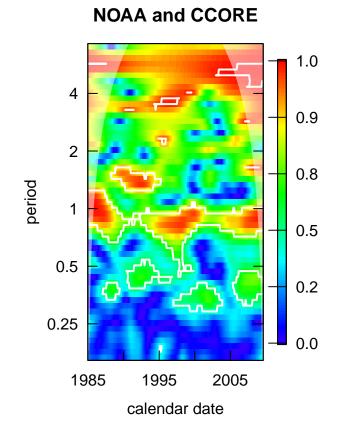


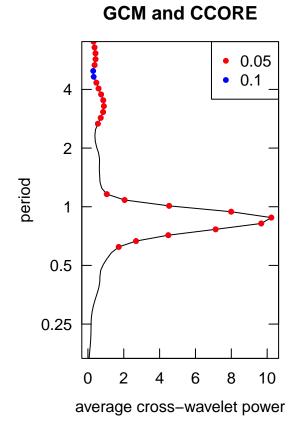


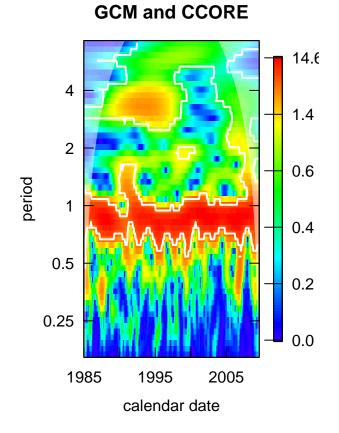


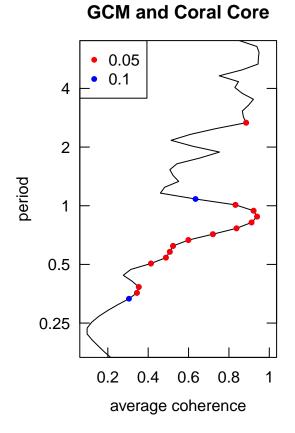


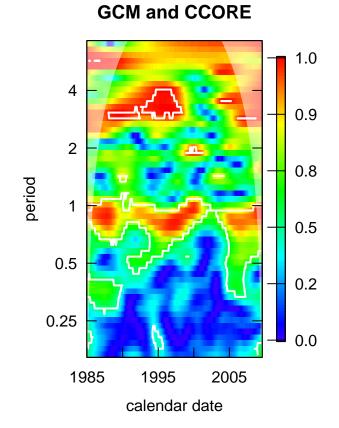


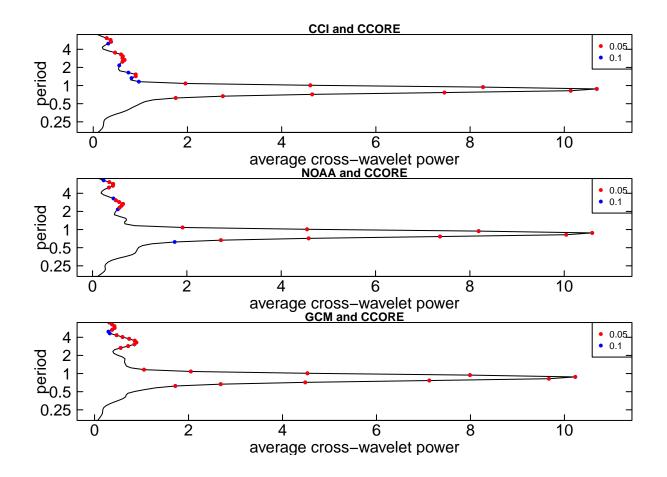




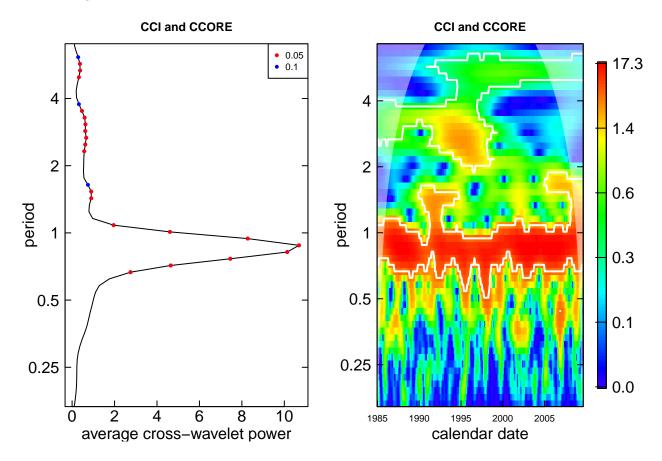


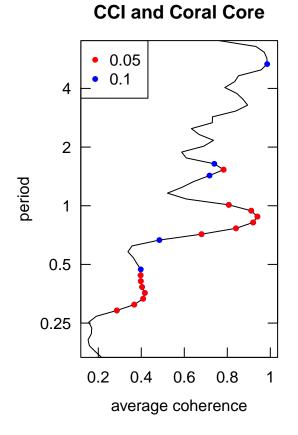


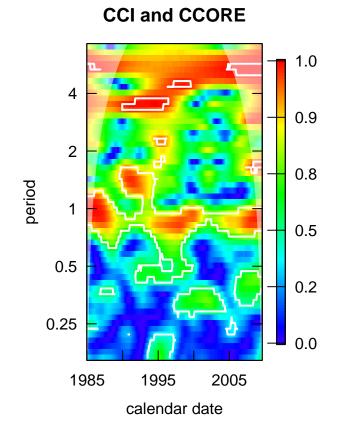


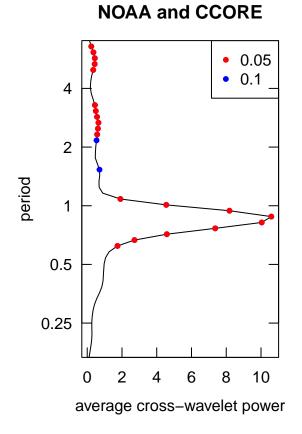


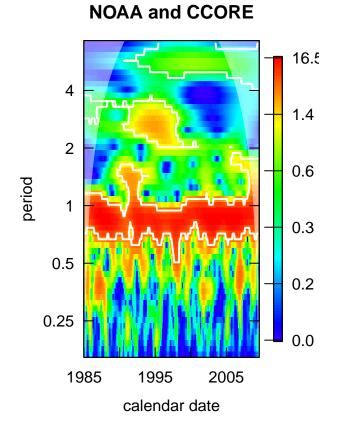
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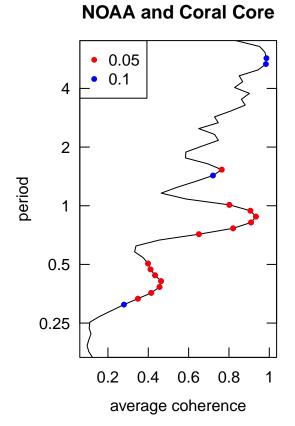


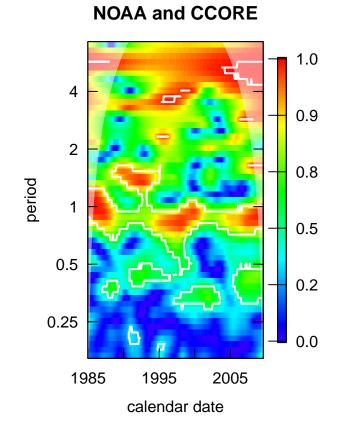


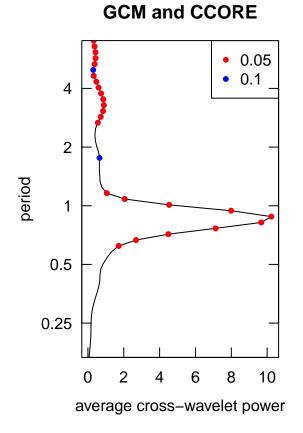


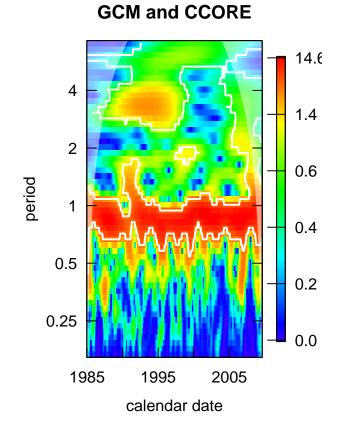


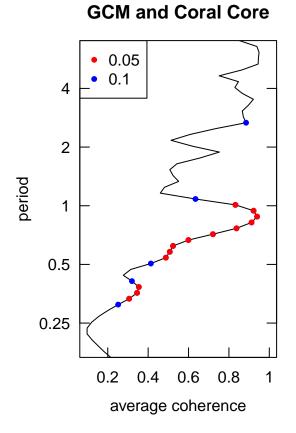


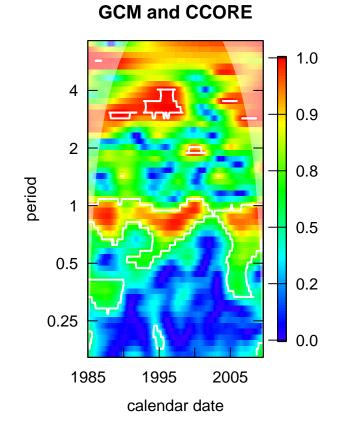


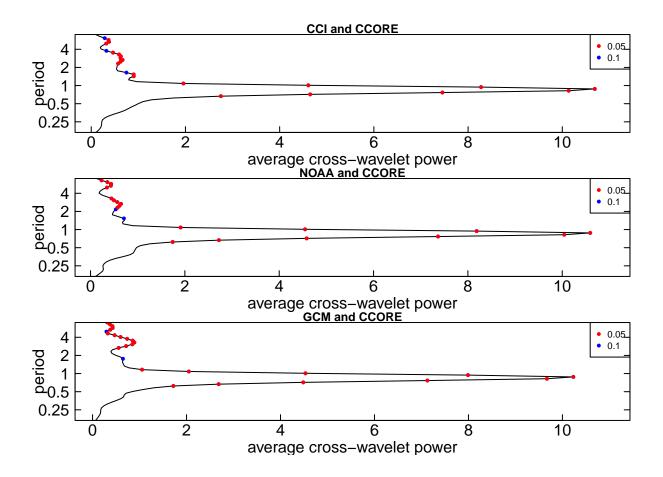




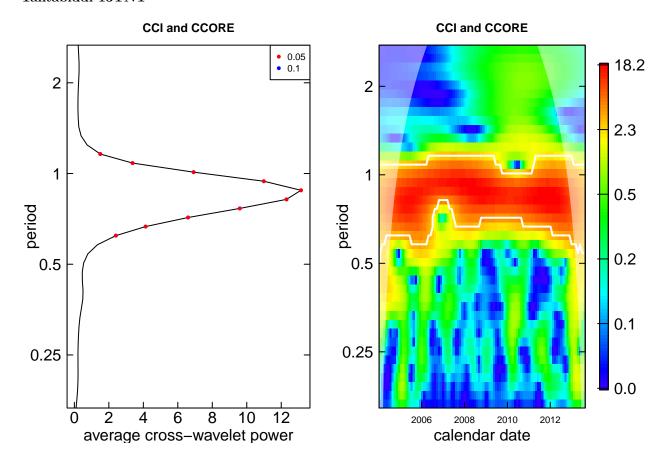


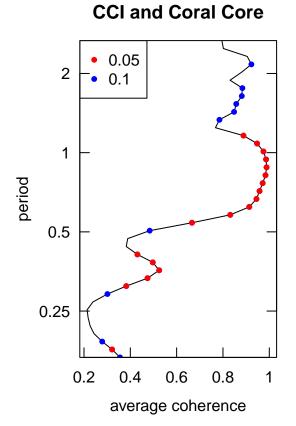


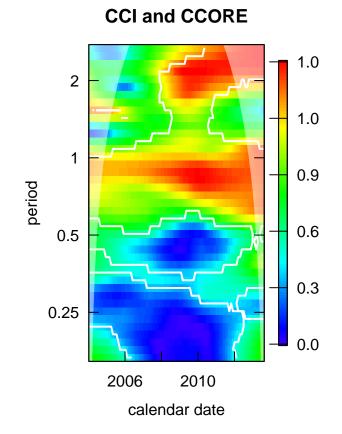


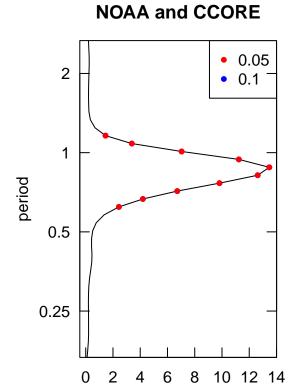


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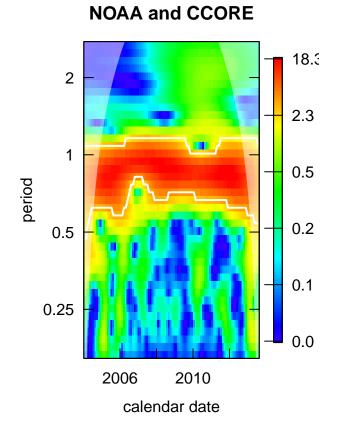


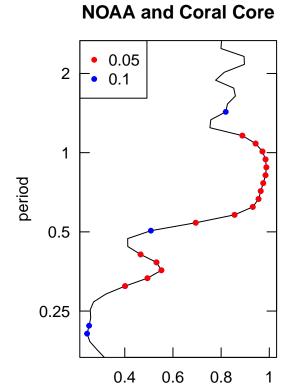




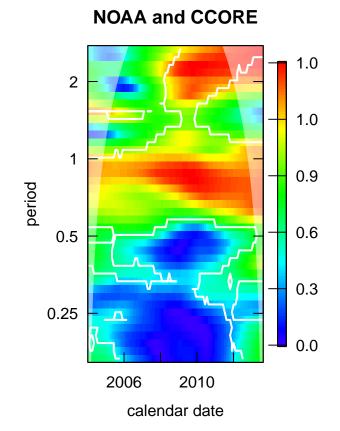


average cross-wavelet power

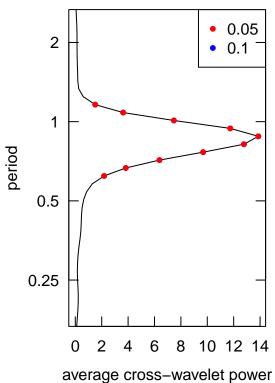




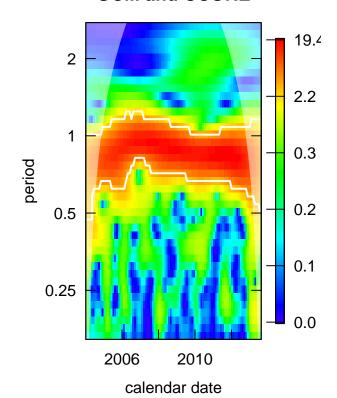
average coherence

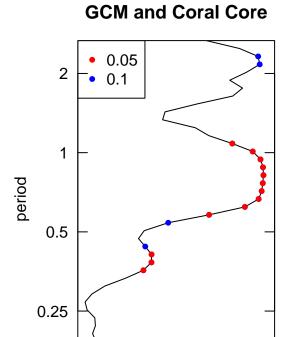






# **GCM and CCORE**





0.2

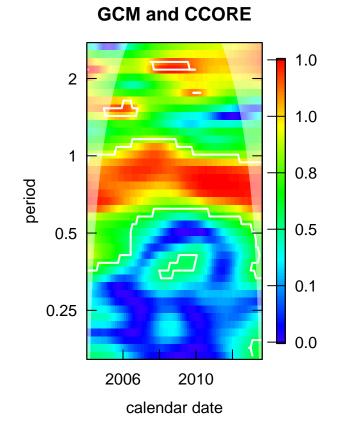
0.4

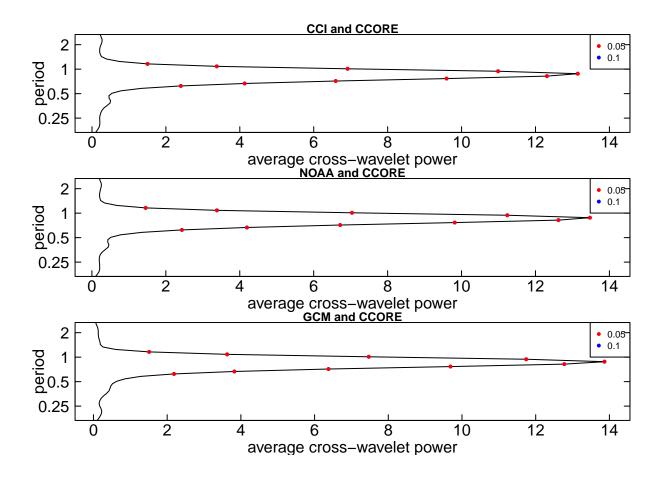
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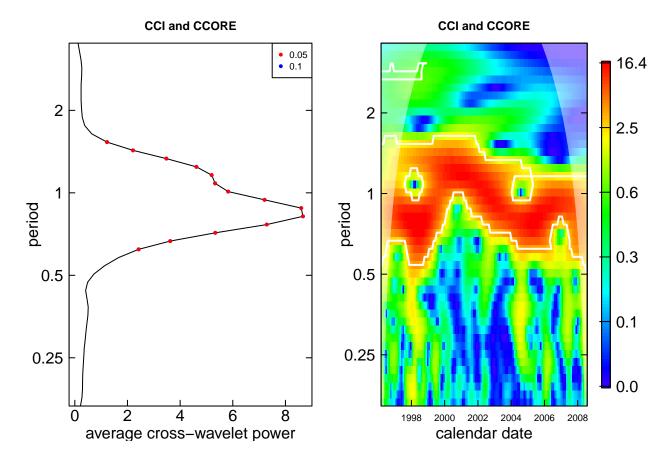
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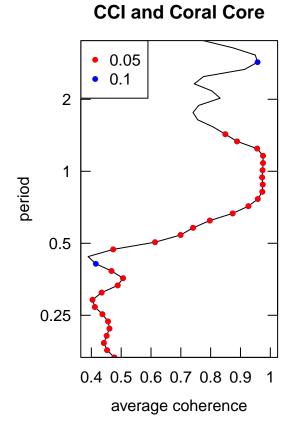
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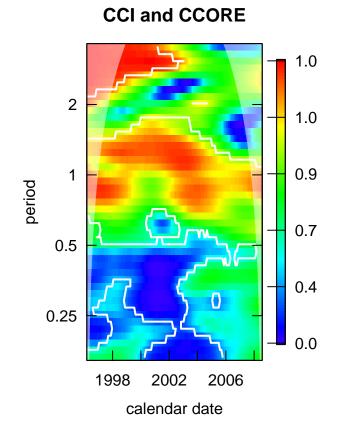


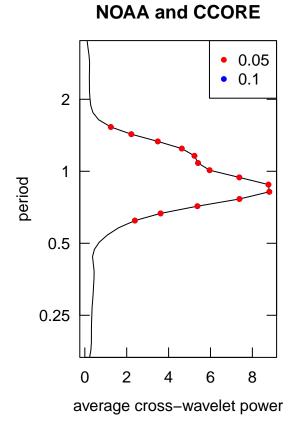


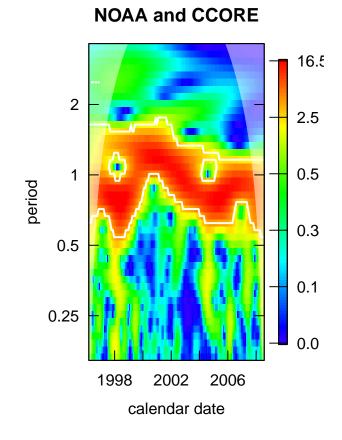
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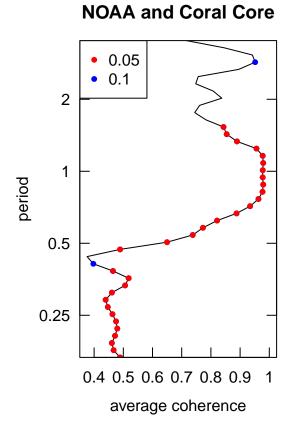


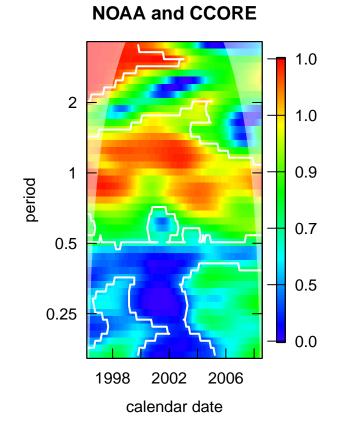


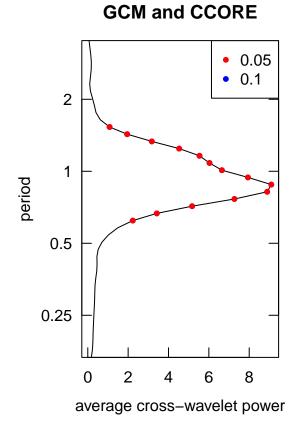


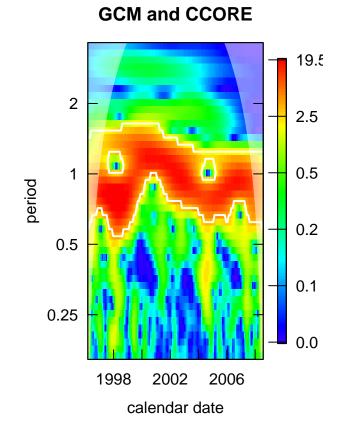


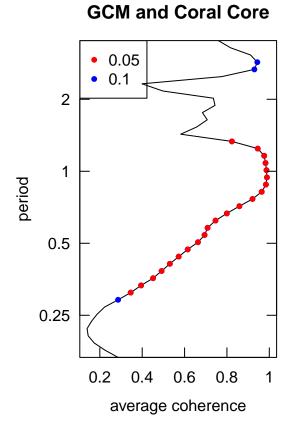


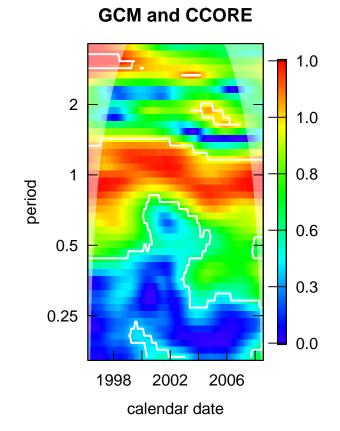


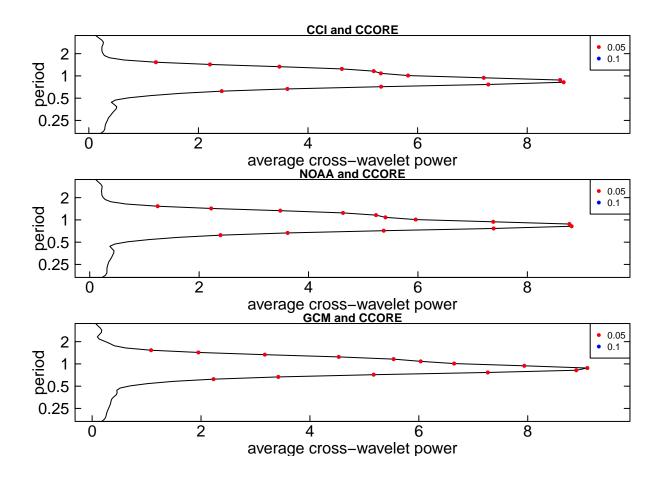




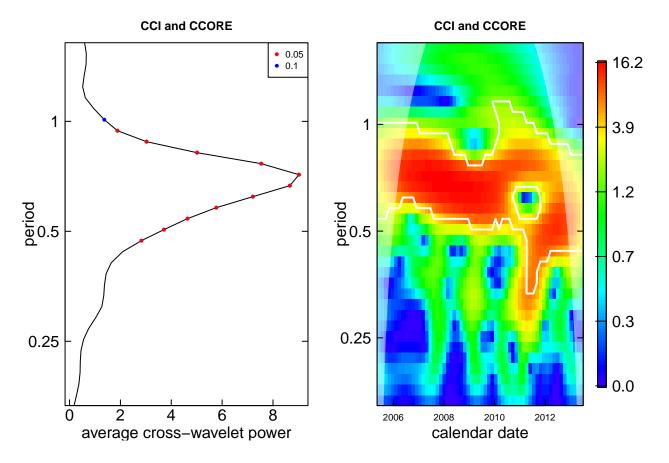


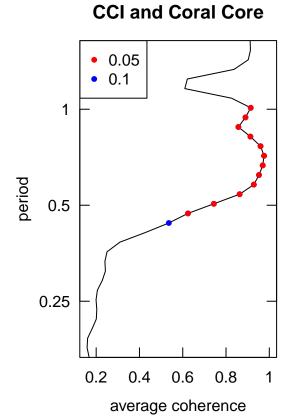


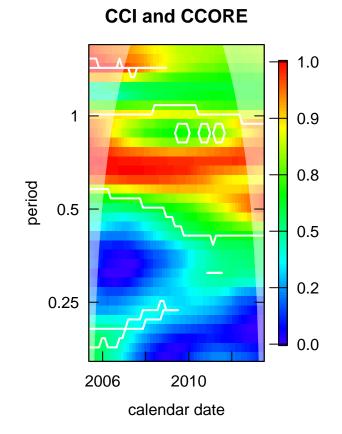


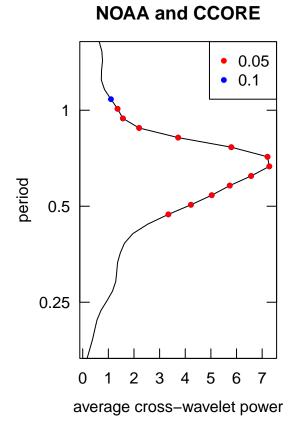


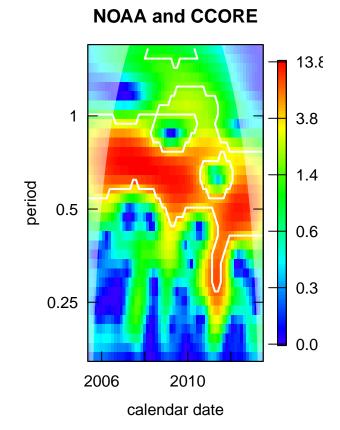
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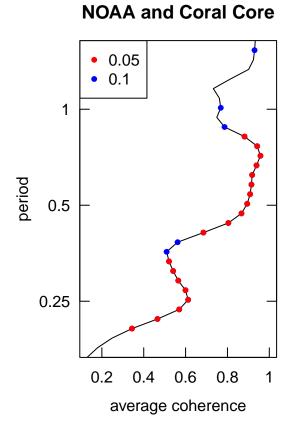


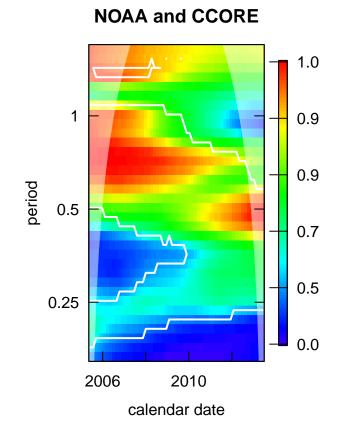


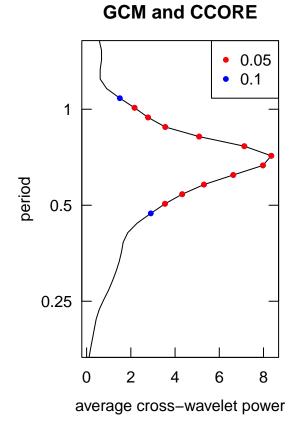


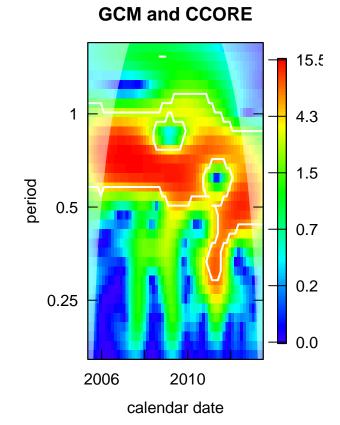


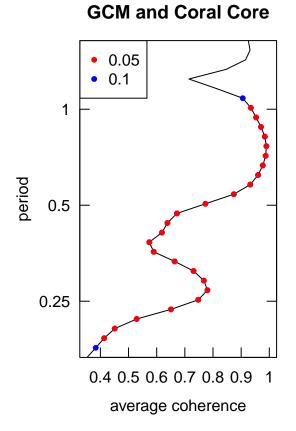


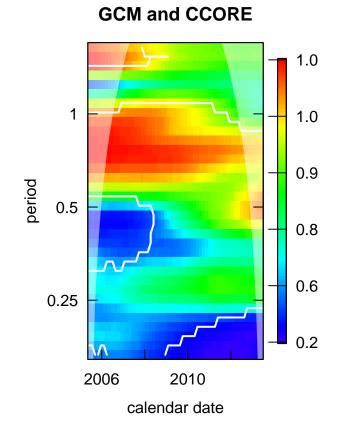


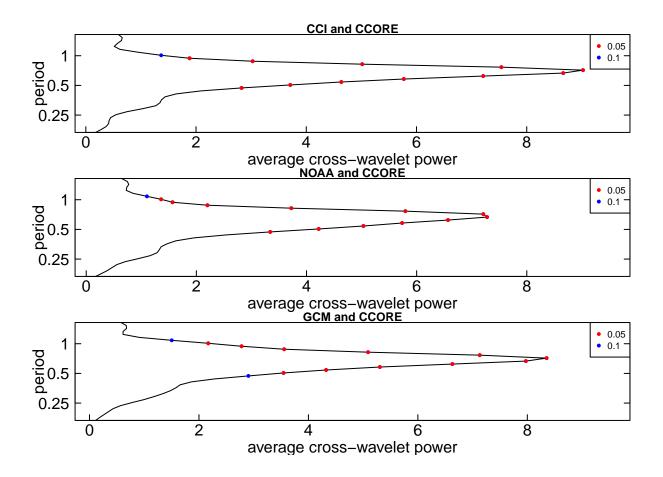




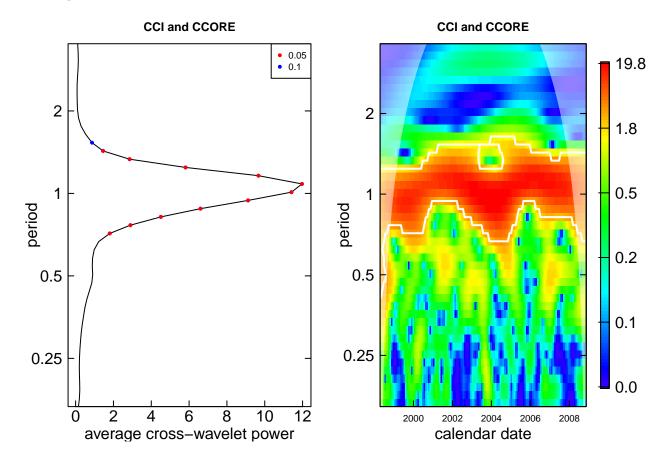


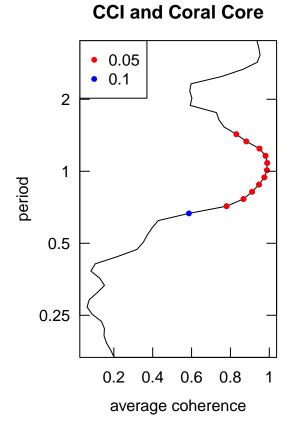


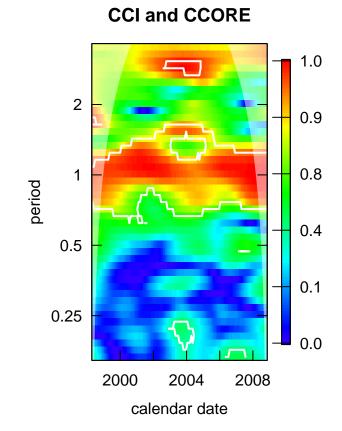


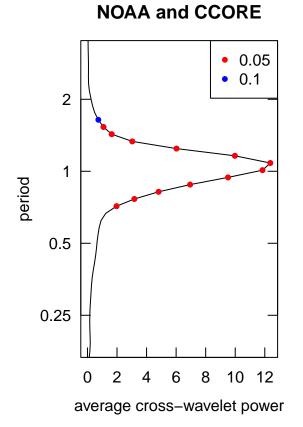


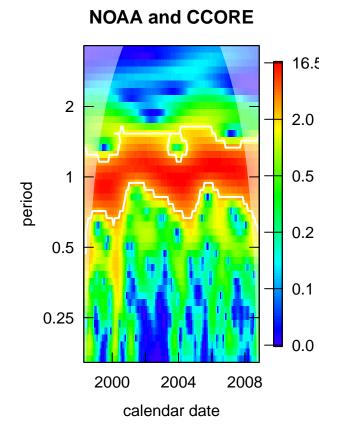
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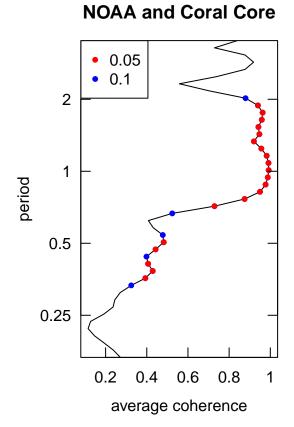


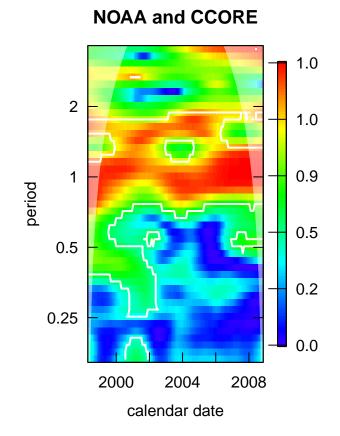


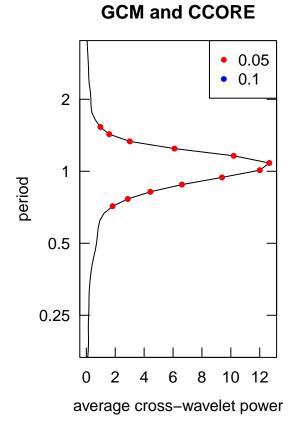


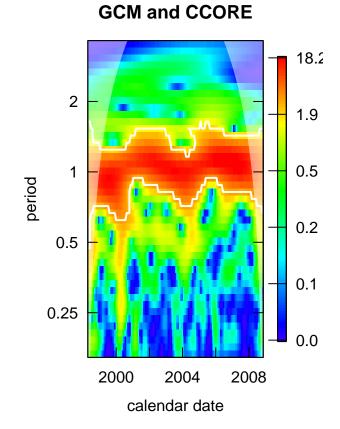


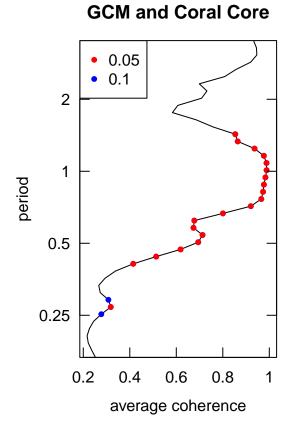


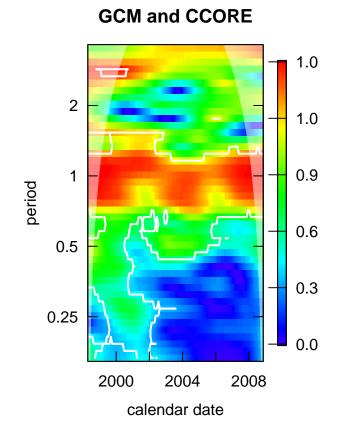


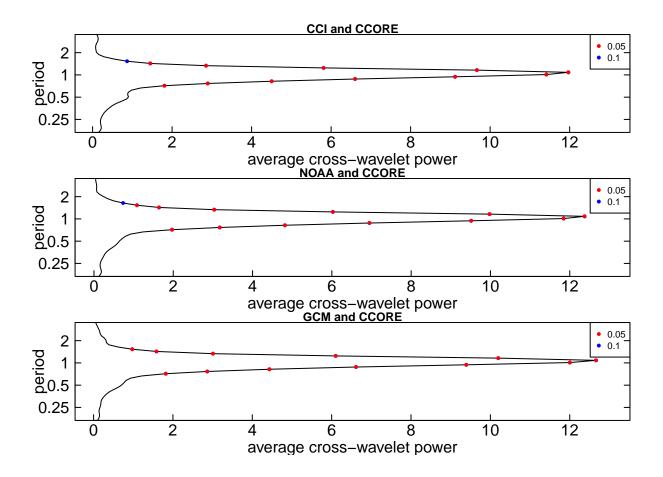






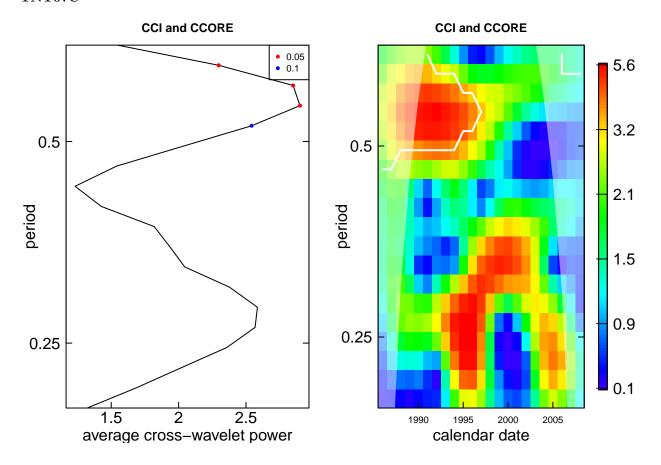


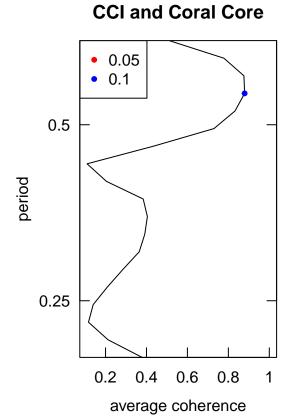


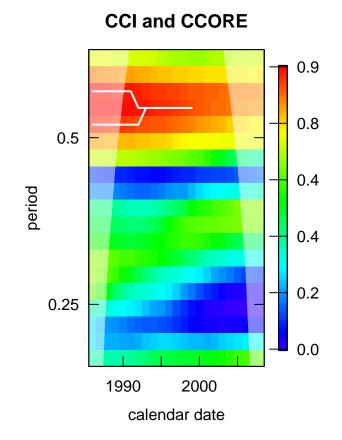


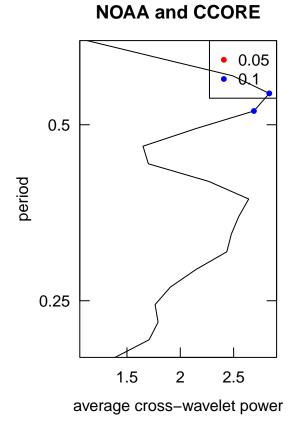
Annual Coral Core Proxy Sites - Period of one represents 10 years

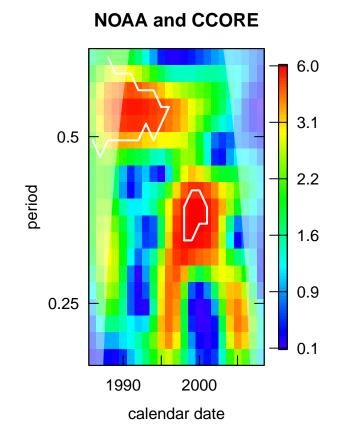
## TNT07C



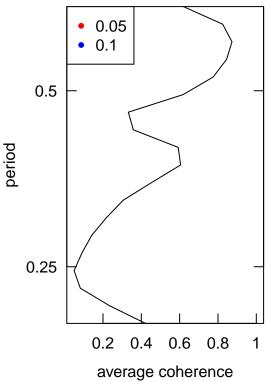




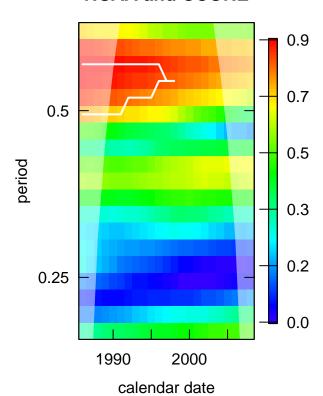


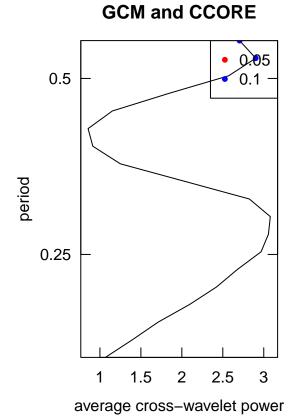


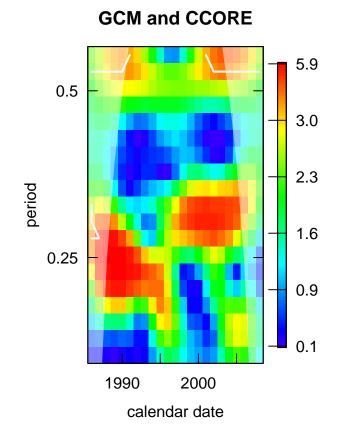




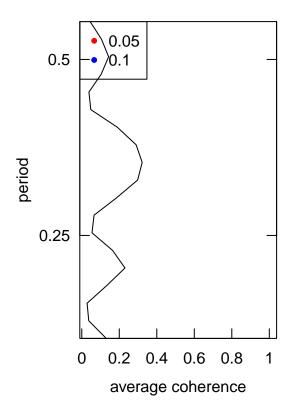
## **NOAA** and **CCORE**



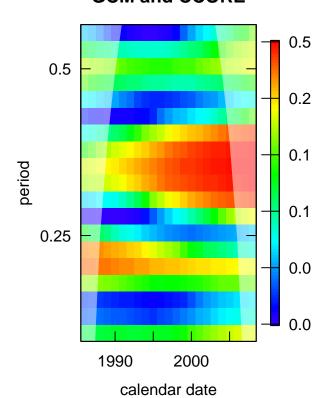


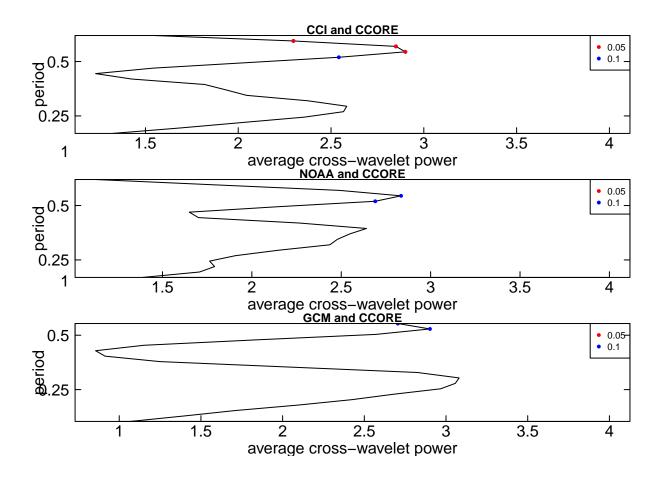




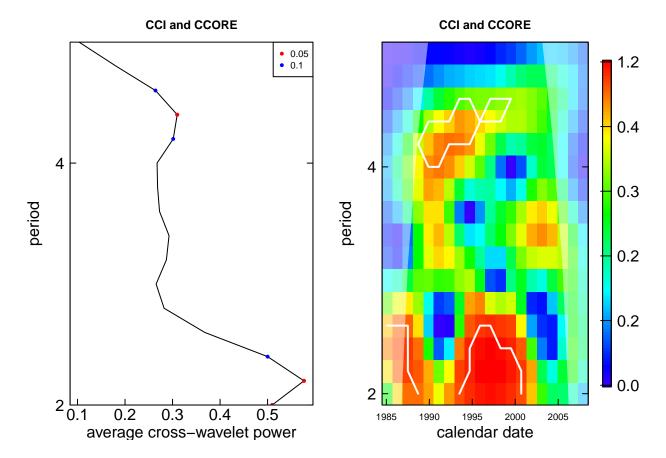


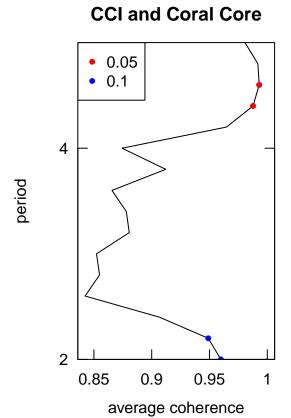
## **GCM and CCORE**

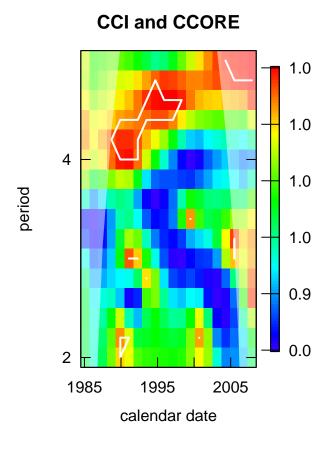


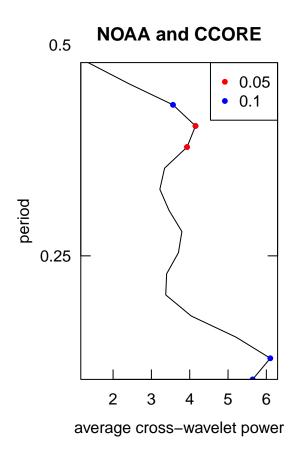


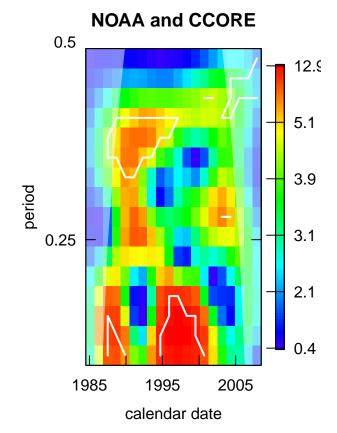
## BUN05A

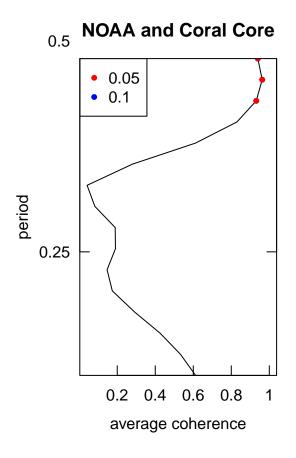


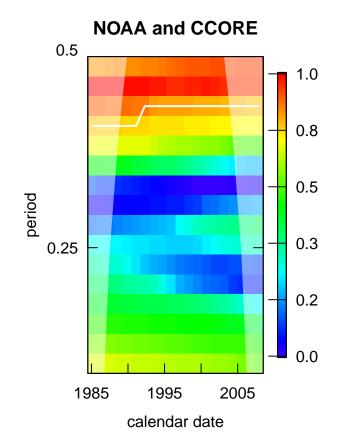


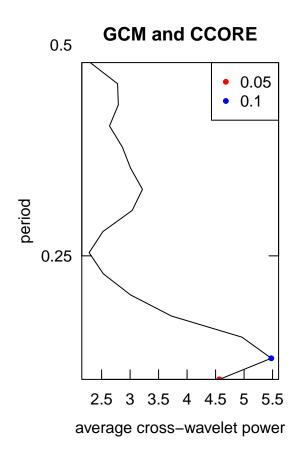


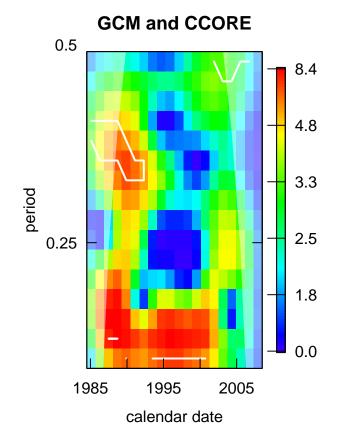


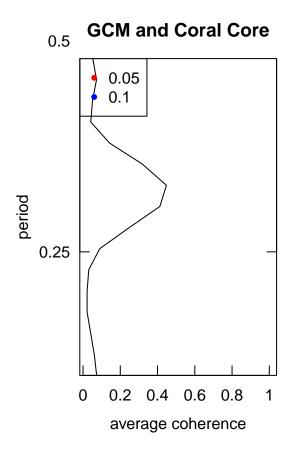


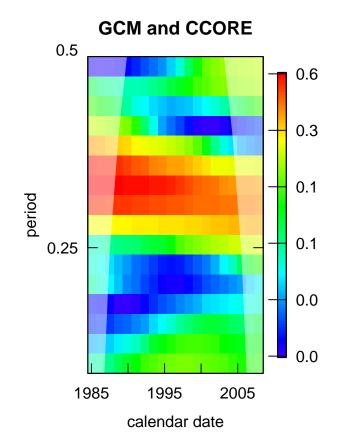


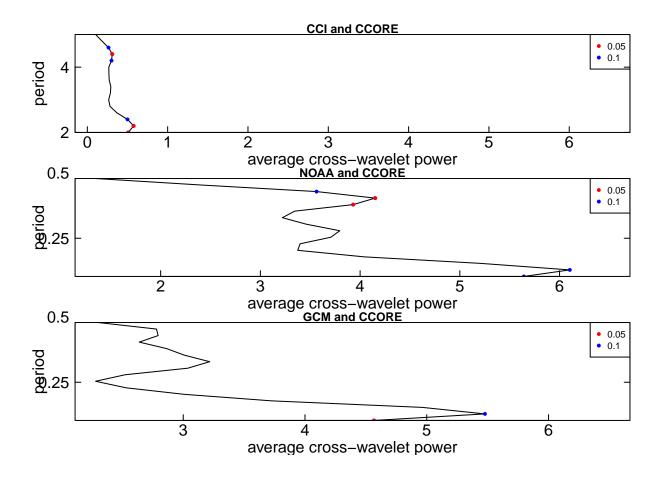




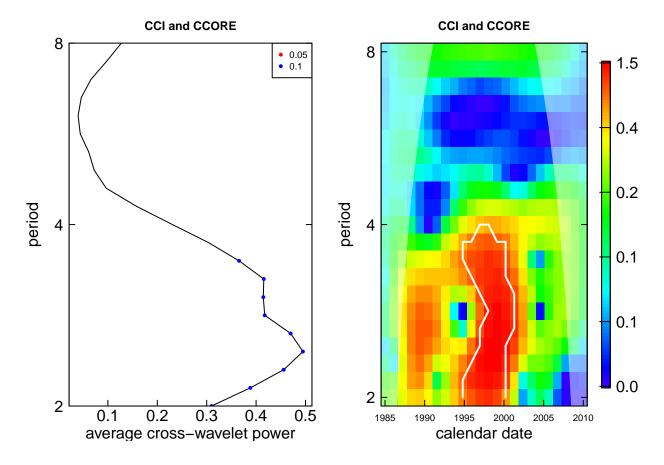


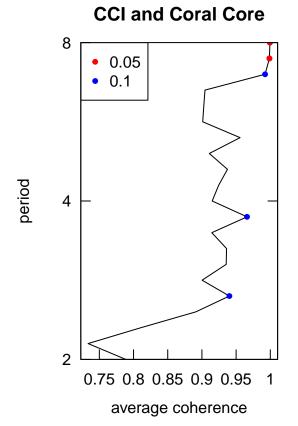


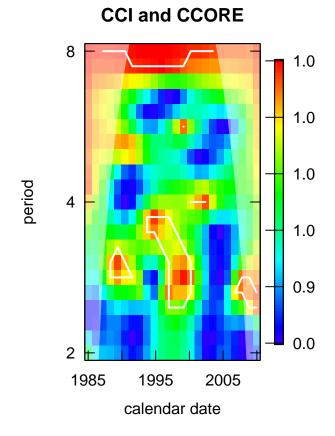


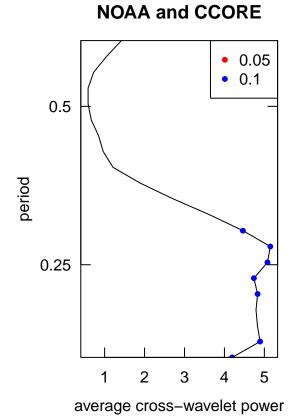


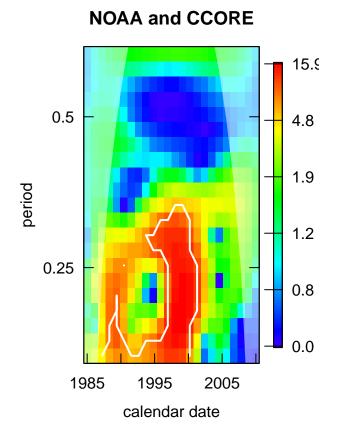
## HAB05B



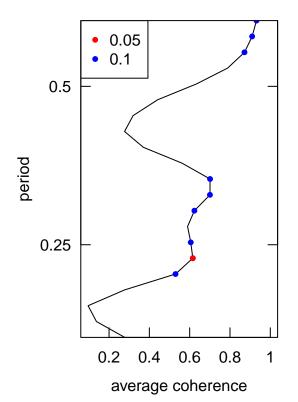




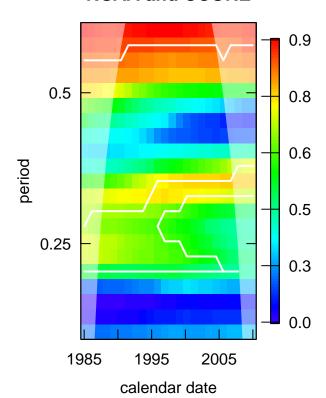


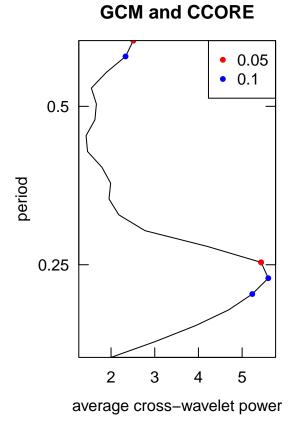


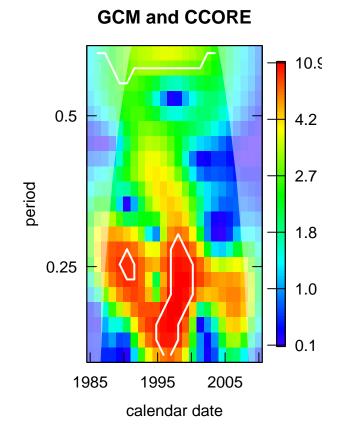


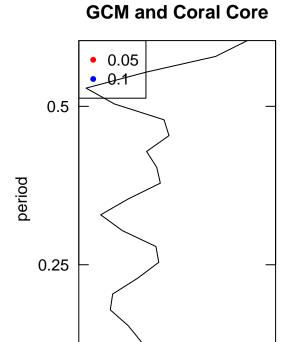


## **NOAA** and **CCORE**









0.2 0.4 0.6 0.8

average coherence

1

