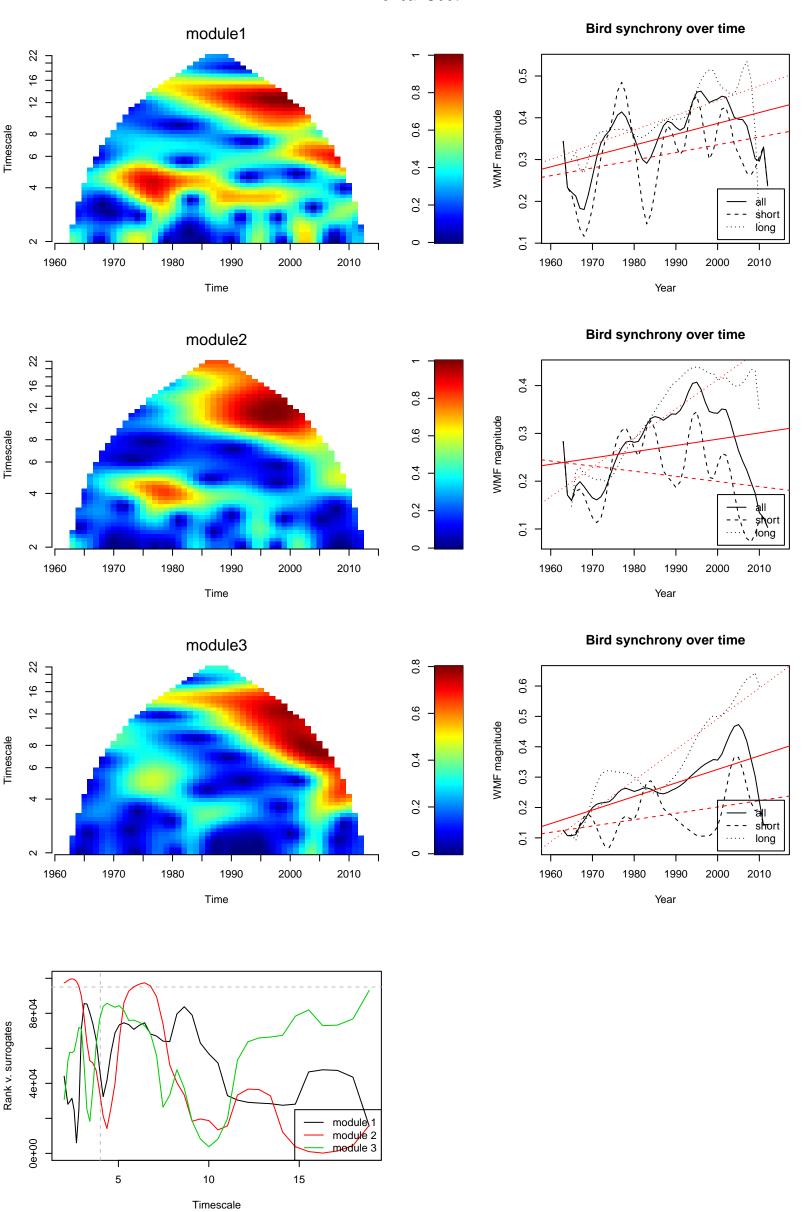
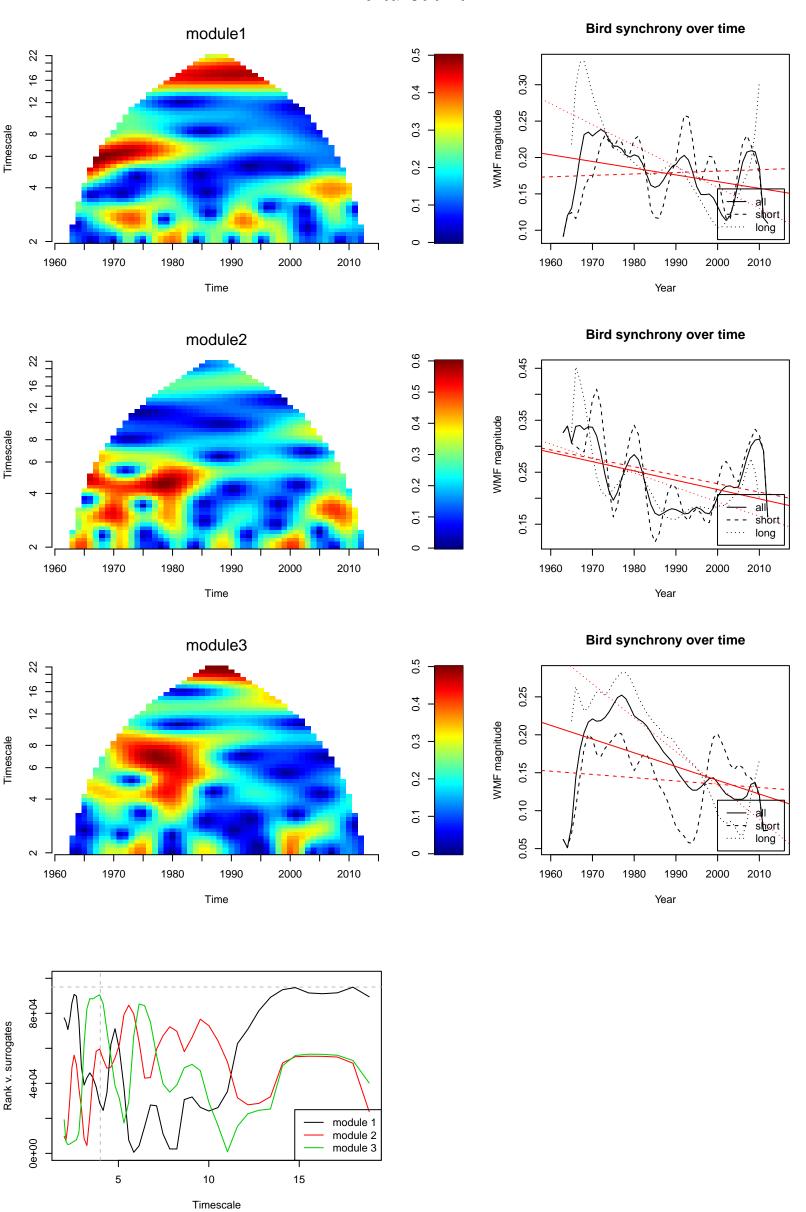
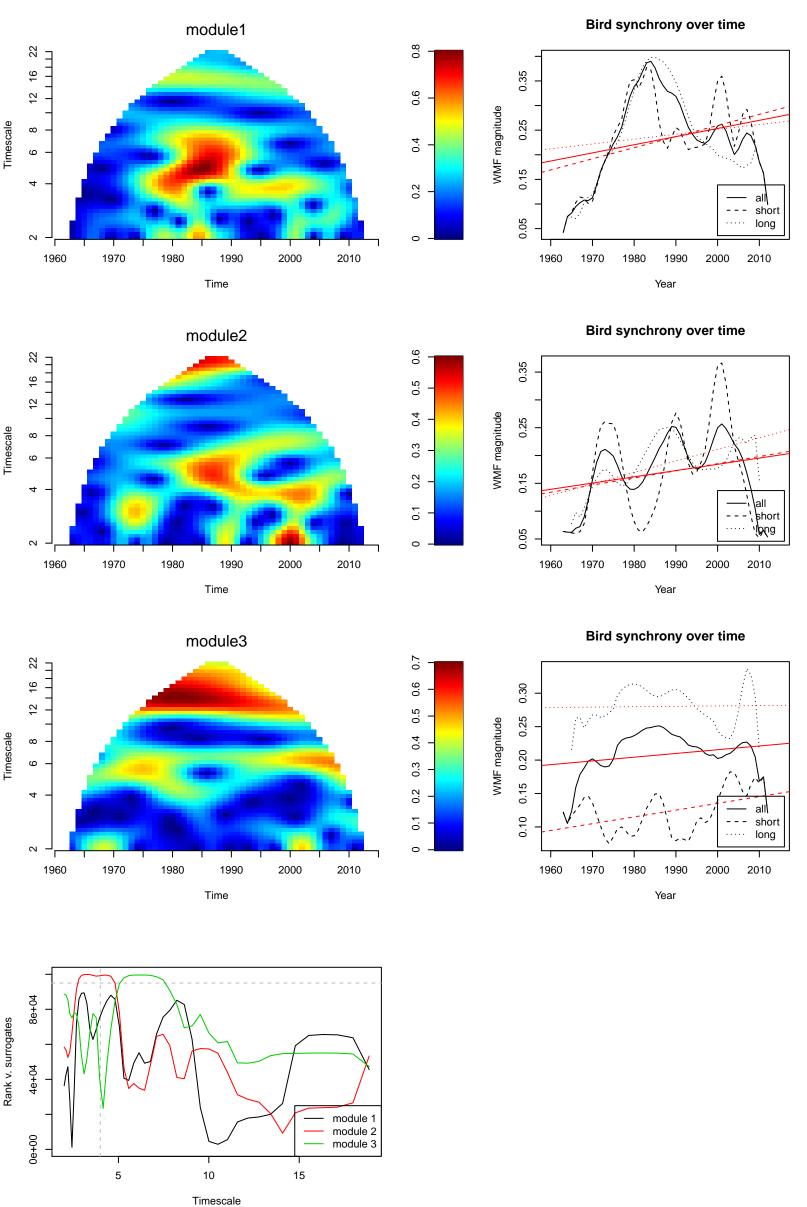
AmericanCoot



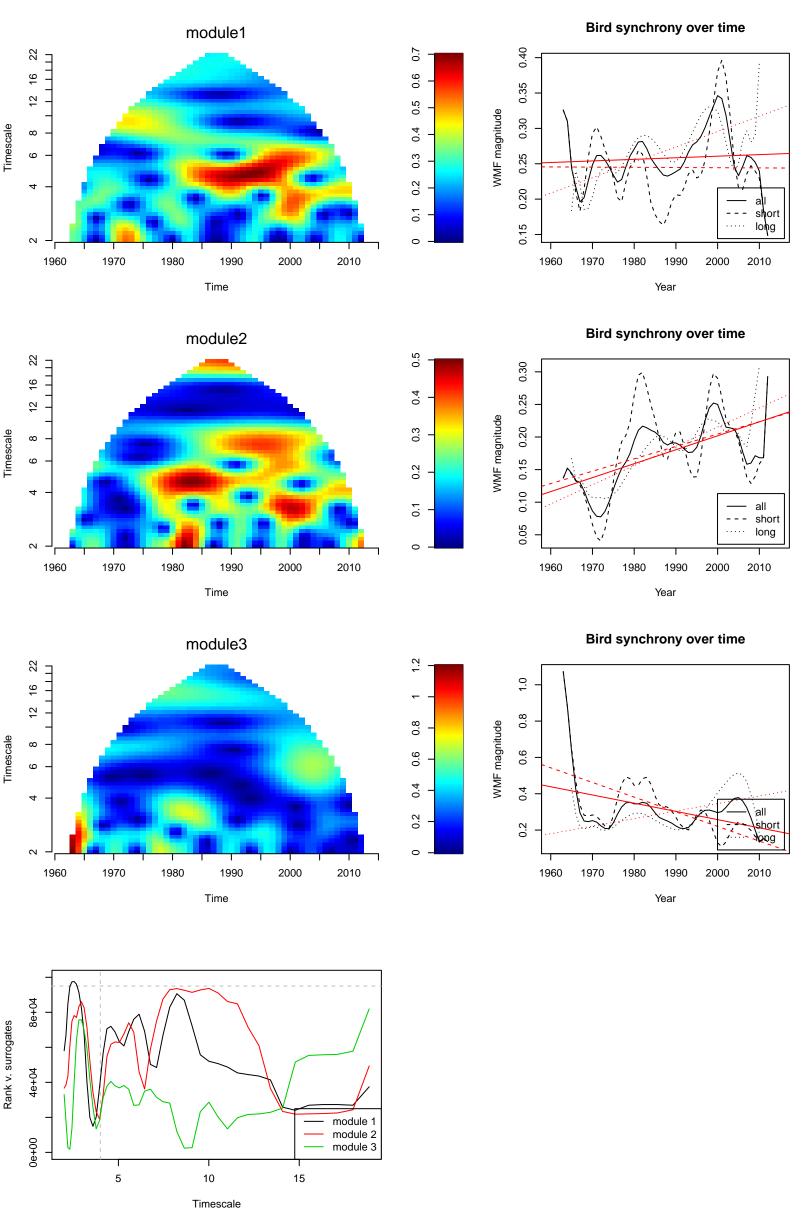
AmericanGoldfinch



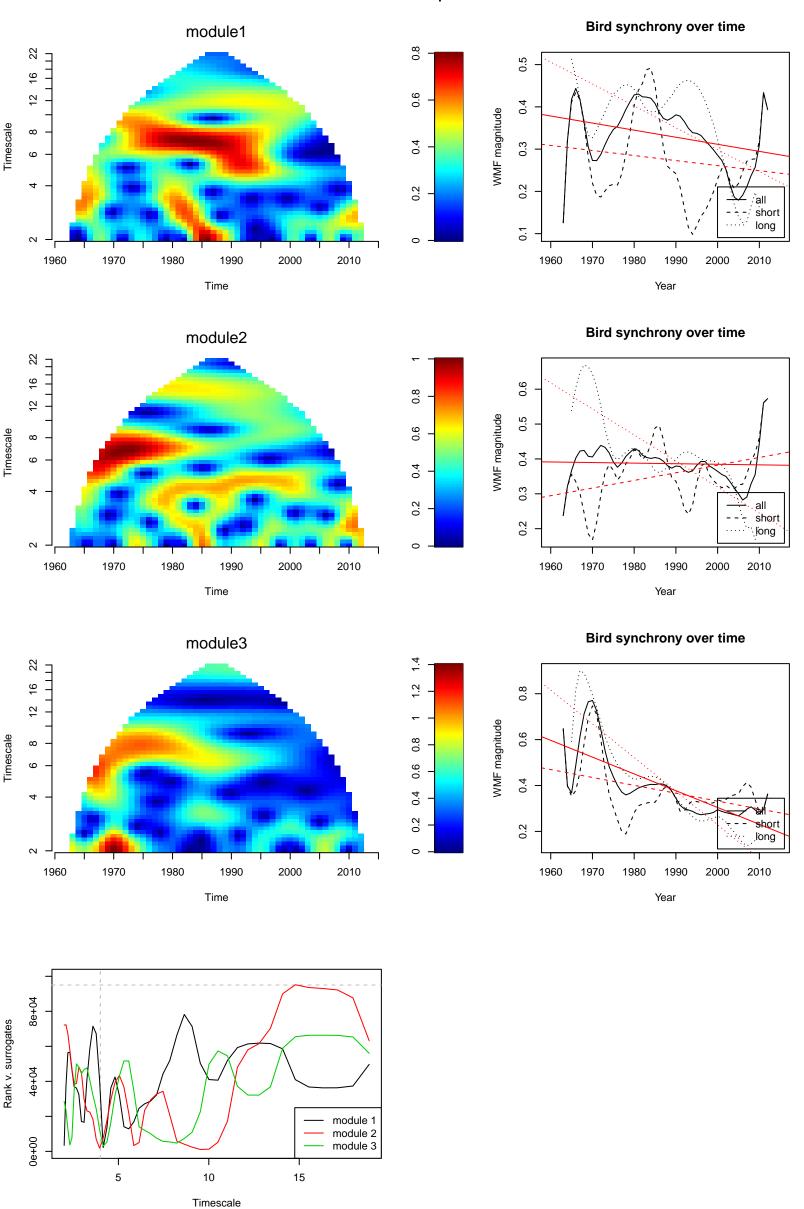
AmericanKestrel



AmericanRobin



AmericanTreeSparrow



BeltedKingfisher Bird synchrony over time module1 0.7 22 0.4 9.0 16 12 0.3 0.5 WMF magnitude 0.4 Timescale ∞ 0.2 9 0.3 0.2 0.1 0.1 . short . long 0 1960 1970 2000 2010 1960 1970 1980 2010 1980 1990 1990 2000 Time Year Bird synchrony over time module2 0.7 22 0.40 9.0 16 12 0.5 0.30 WMF magnitude 0.4 Timescale ω 9 0.3 0.20 0.2 all short 0.1 0.10 long 0 1960 1970 1980 1990 2000 2010 1960 1970 1980 1990 2000 2010 Time Year Bird synchrony over time module3 9.0 22 16 0.5 12 0.30 0.4 WMF magnitude Timescale ∞ 0.3 0.20 0.2 0.1 0.10 0 1970 1980 2010 1960 1990 2000 2010 1960 1970 1980 2000 1990 Time Year 8e+04 Rank v. surrogates 4e+04 module 1 module 2 module 3

0e+00

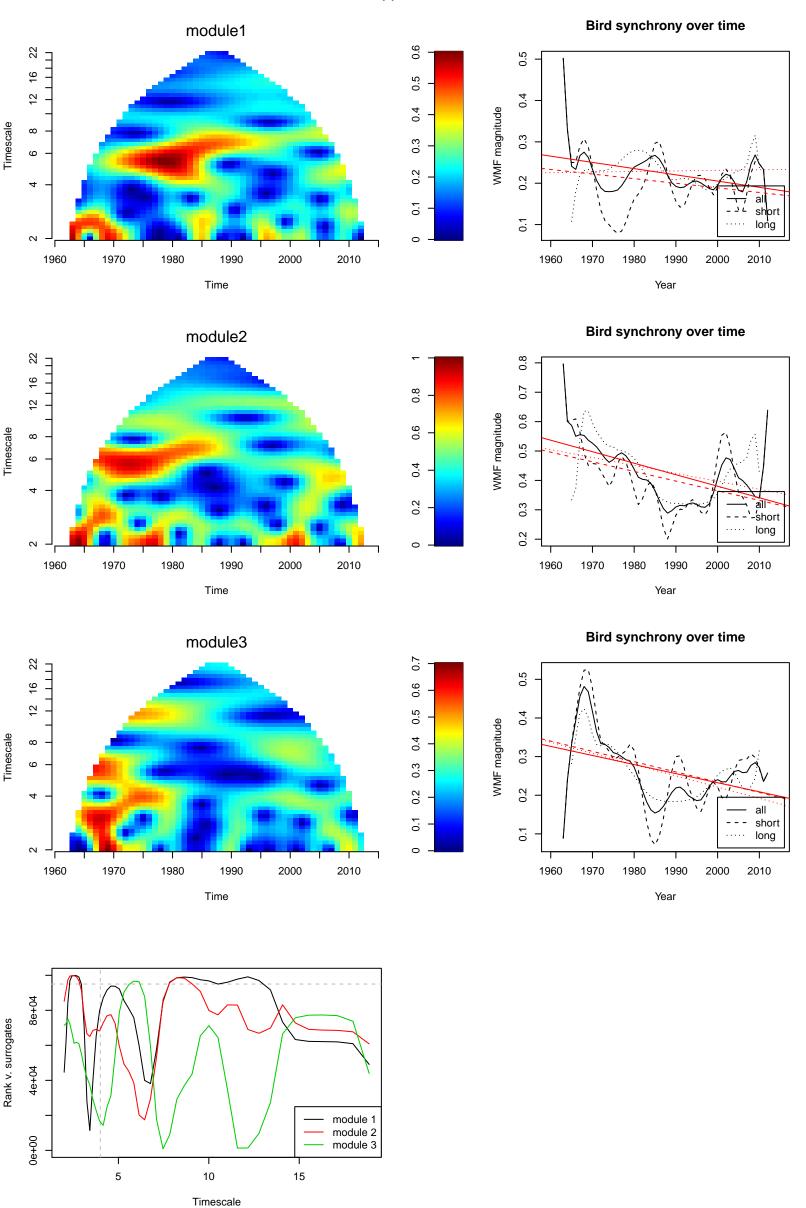
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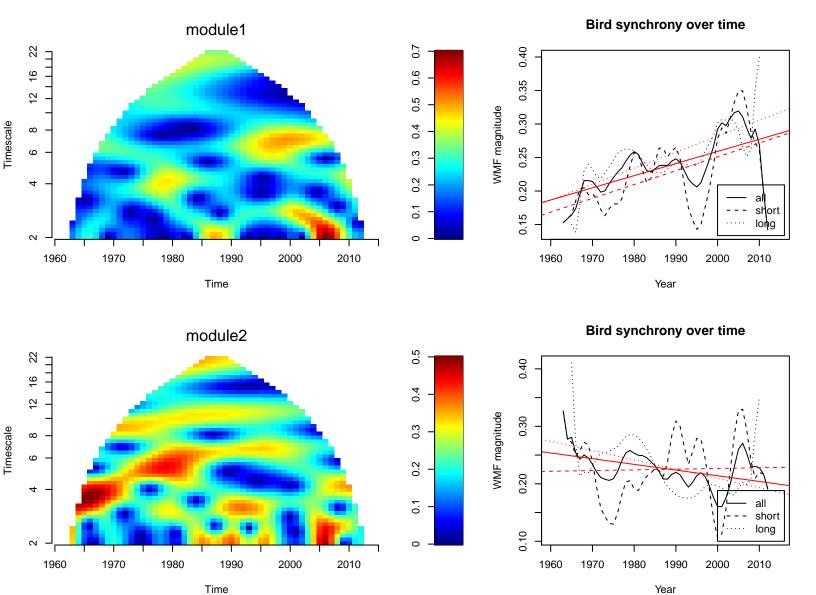
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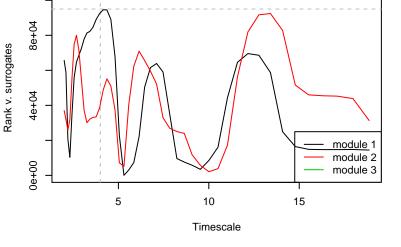
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BlackCappedChickadee



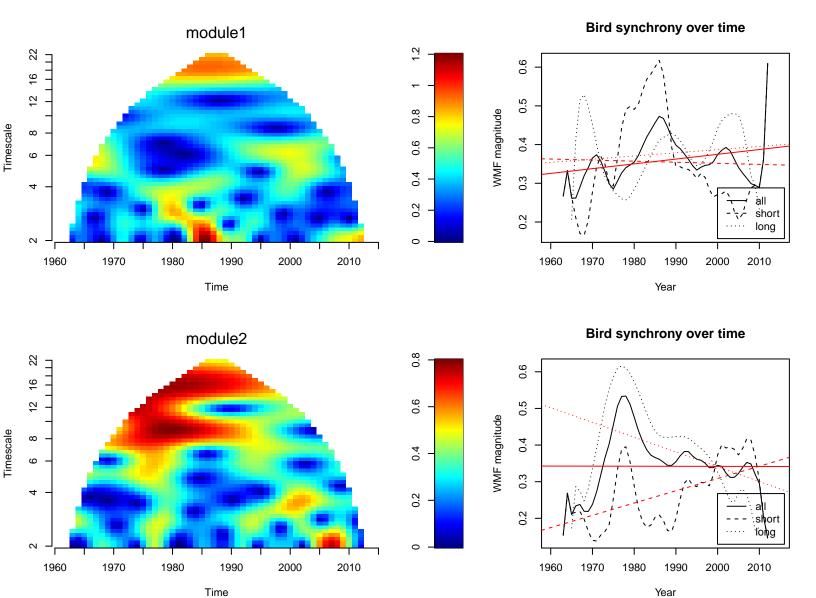
BlueJay

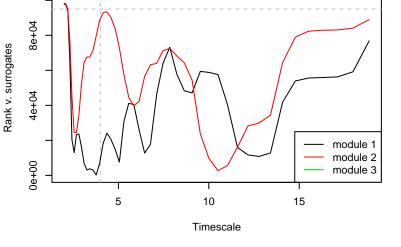




BrownCreeper Bird synchrony over time module1 0.7 22 9.0 9.0 16 12 0.5 0.3 WMF magnitude 0.4 Timescale ∞ 0.2 9 0.3 0.2 0.1 0.1 long 0 1960 1970 1980 1990 2000 1960 1970 1980 2010 2010 1990 2000 Time Year Bird synchrony over time module2 9.0 22 16 0.5 0.25 12 WMF magnitude 0.4 Timescale ω 0.3 0.15 9 0.2 all 0.1 0.05 short long 0 1960 1970 1980 1990 2000 2010 1960 1970 1980 1990 2000 2010 Time Year Bird synchrony over time module3 0.8 22 16 0.4 9.0 12 WMF magnitude 0.3 Timescale ∞ 0.4 0.2 0.2 all 0.1 short long 1960 1970 1980 2000 2010 1960 1970 1980 2000 2010 1990 1990 Time Year Rank v. surrogates 4e+04 module 1 module 3 0e+00 10 15 Timescale

CarolinaWren





CedarWaxwing Bird synchrony over time module1 9.0 22 16 0.5 0.4 12 0.4 WMF magnitude Timescale 0.3 ∞ 0.3 9 0.2 0.2 0.1 0.1 0 1960 1980 1990 2000 1960 1970 1980 1990 2010 1970 2010 2000 Time Year Bird synchrony over time module2 0.5 22 16 9.0 12 0.25 WMF magnitude 0.3 Timescale ω 9 0.15 0.2 άll 0.1 short 0.05 long 1960 1970 1980 1990 2000 2010 1960 1970 1980 1990 2000 2010 Time Year Bird synchrony over time module3 22 16 0.5 0.8 12 WMF magnitude 9.0 9.0 Timescale ∞ 0.3 0.4 0.2 0.2 all 0.1 **10**ng 0 1980 2000 1980 2010 1960 1970 1990 2010 1960 1970 2000 1990 Time Year 8e+04 Rank v. surrogates 4e+04 module 1 module 2 0e+00 10 15 Timescale

DarkEyedJunco Bird synchrony over time module1 0.8 22 16 0.5 9.0 12 WMF magnitude 9.0 Timescale ∞ 0.4 9 0.3 0.2 0.2 1960 1970 2000 2010 1960 1970 1980 2010 1980 1990 1990 2000 Time Year Bird synchrony over time module2 0.8 22 0.5 16 12 9.0 0.4 WMF magnitude Timescale ω 0.3 0.4 9 0.2 0.2 all short 0.1 long 1960 1970 1980 1990 2000 2010 1960 1970 1980 1990 2000 2010 Time Year Bird synchrony over time module3 22 0.40 16 12 0.8 WMF magnitude 0.30 Timescale ∞ 9.0 9.7 0.20 0.2 0.10 0 1970 1980 1980 2010 1960 1990 2000 2010 1960 1970 2000 1990 Time Year 8e+04 Rank v. surrogates 4e+04 module 1 module 2 module 3 0e+00

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Timescale

15

DownyWoodpecker Bird synchrony over time module1 0.30 9.0 22 16 0.5 0.25 12 0.4 WMF magnitude Timescale 0.20 ∞ 0.3 9 0.2 0.15 0.1 short 0.10 long 0 1960 1970 1980 1960 1970 1980 2010 1990 2000 2010 1990 2000 Time Year Bird synchrony over time module2 0.8 22 16 0.40 12 9.0 WMF magnitude 0.30 Timescale ω 0.4 9 0.20 0.2 0.10 ĺong 1960 1970 1980 1990 2000 2010 1960 1970 1980 1990 2000 2010 Time Year Bird synchrony over time module3 0.5 22 9.0 16 0.4 12 0.3 WMF magnitude 0.3 Timescale ∞ 0.2 0.2 all 0.1 0.1 short long 1960 1970 1980 2000 2010 1970 1980 2000 2010 1990 1960 1990 Time Year Rank v. surrogates 4e+04 module 1 module 2 module 3

0e+00

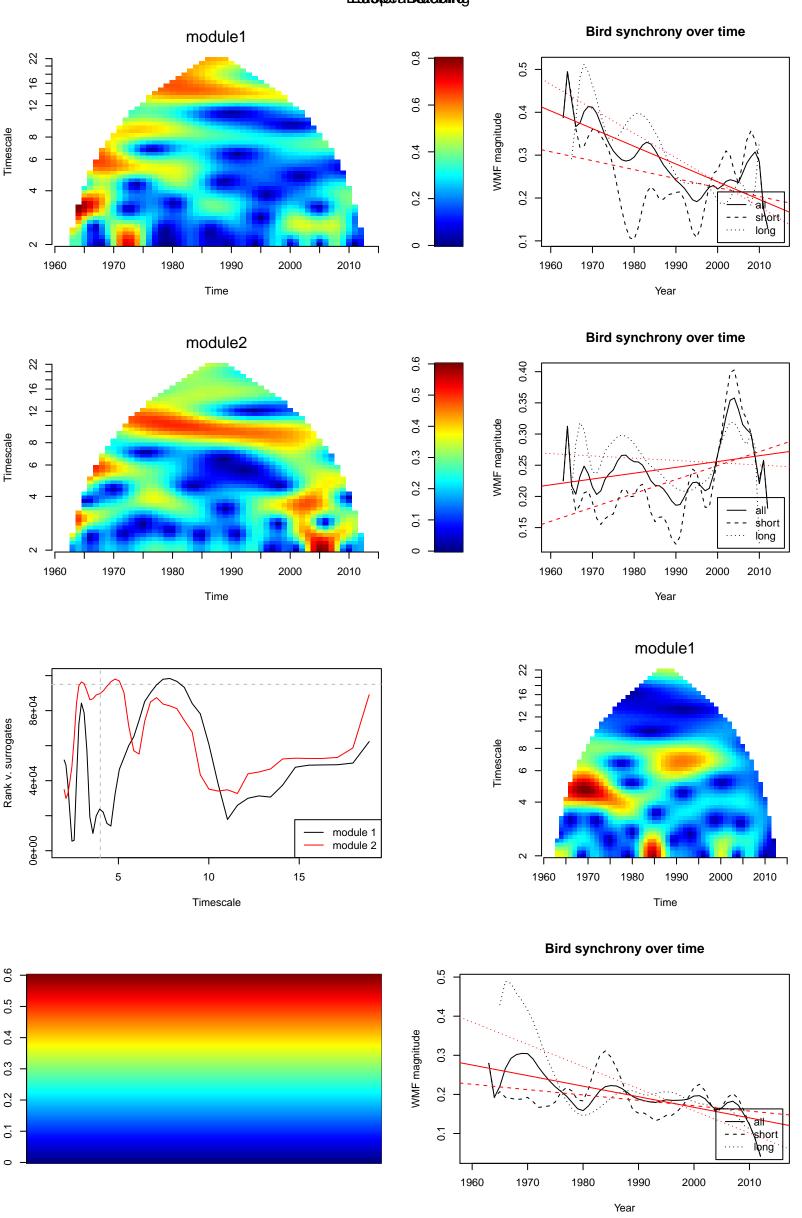
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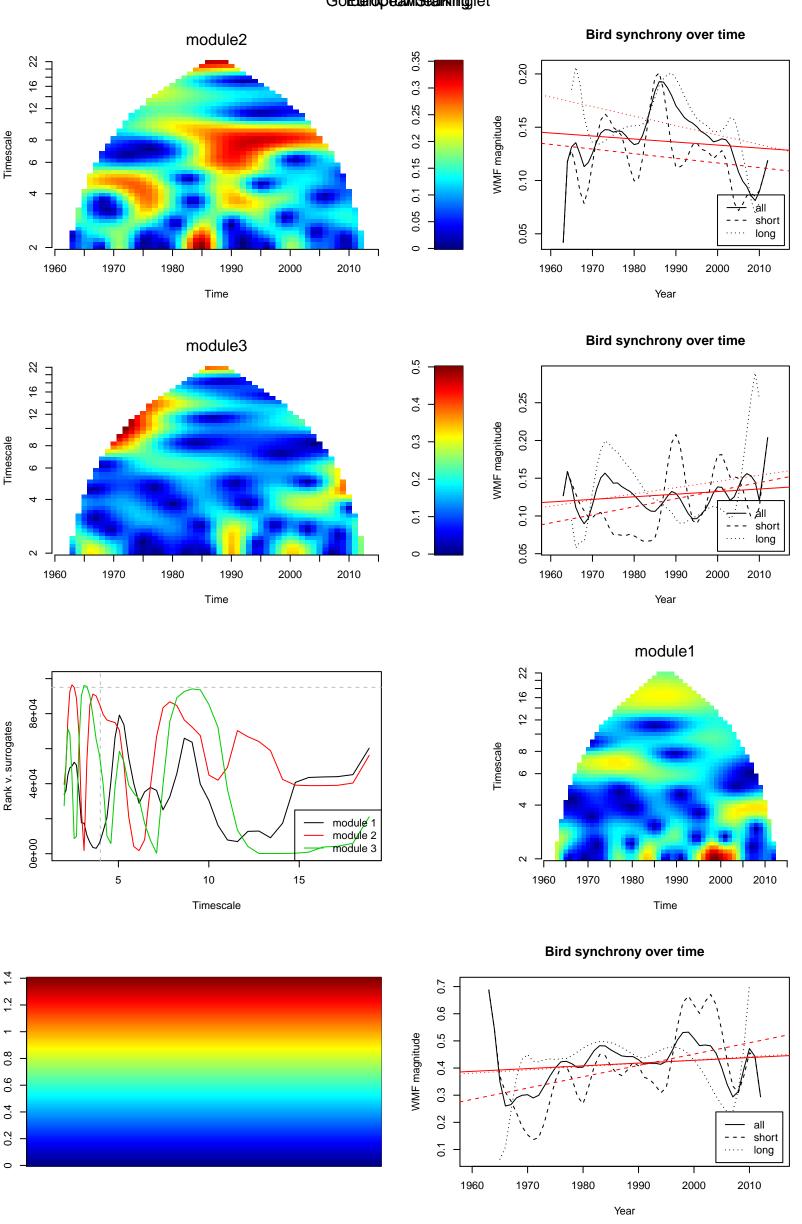
Timescale

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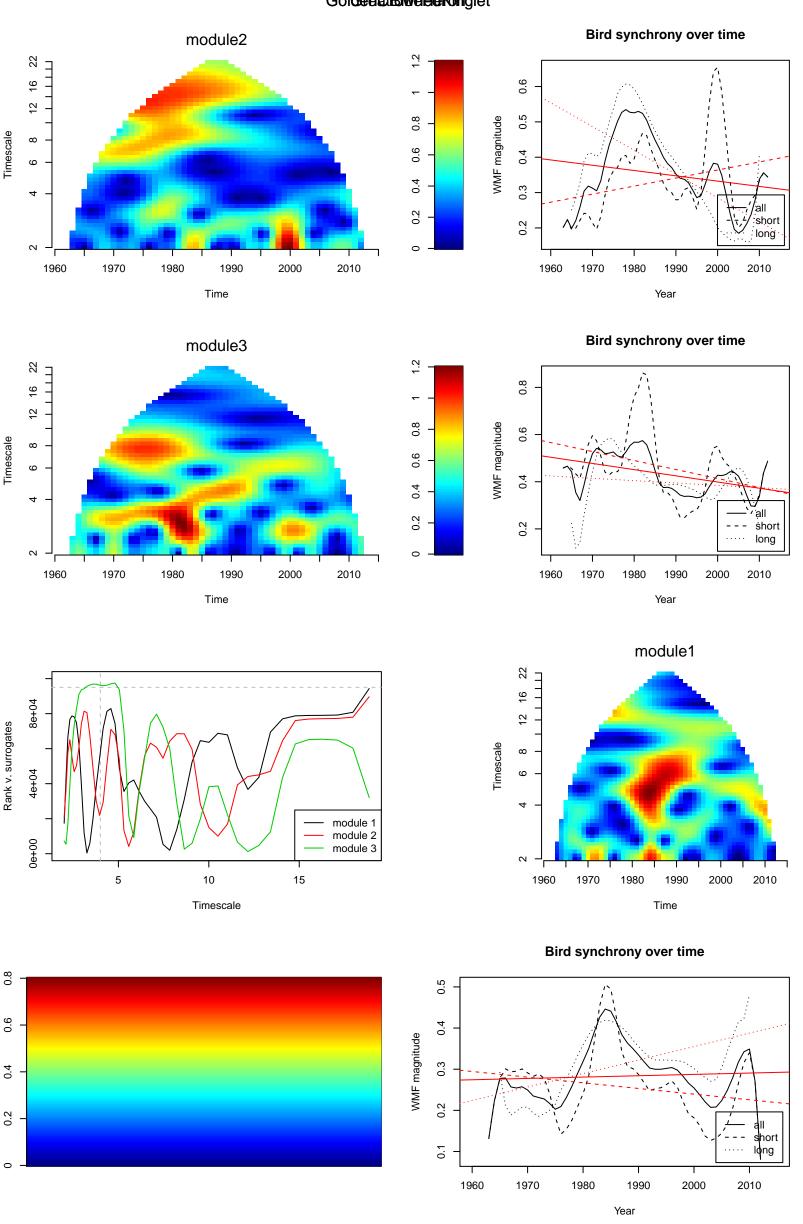
Example a B&teblirdy



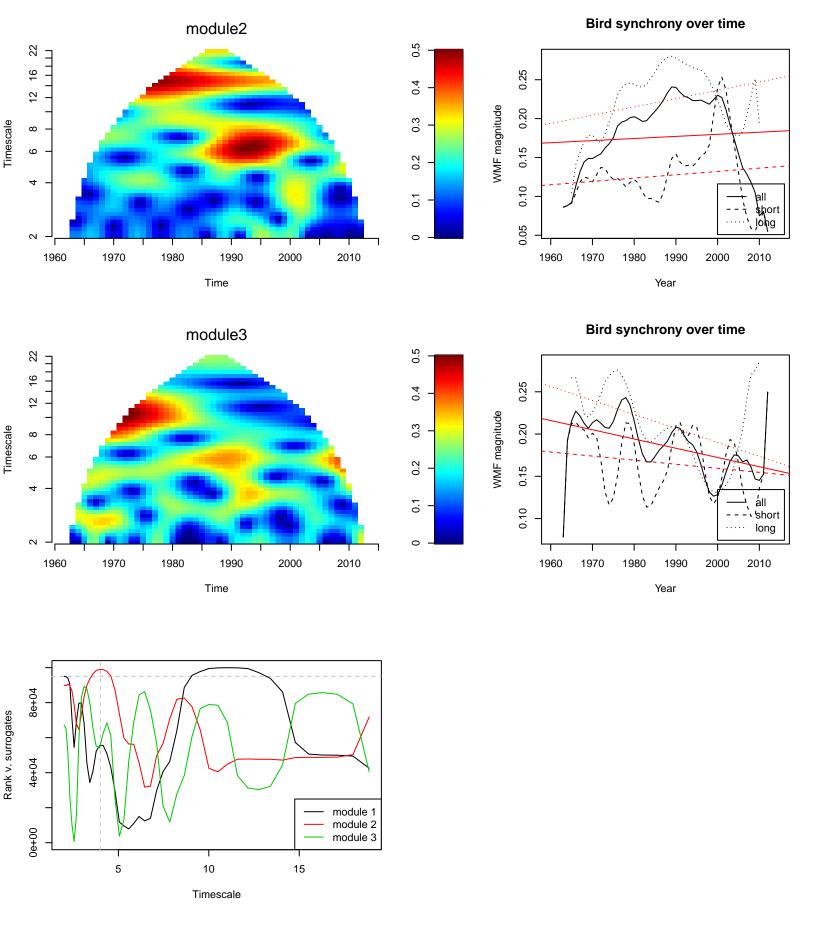
Go Edeno pean Steal King let



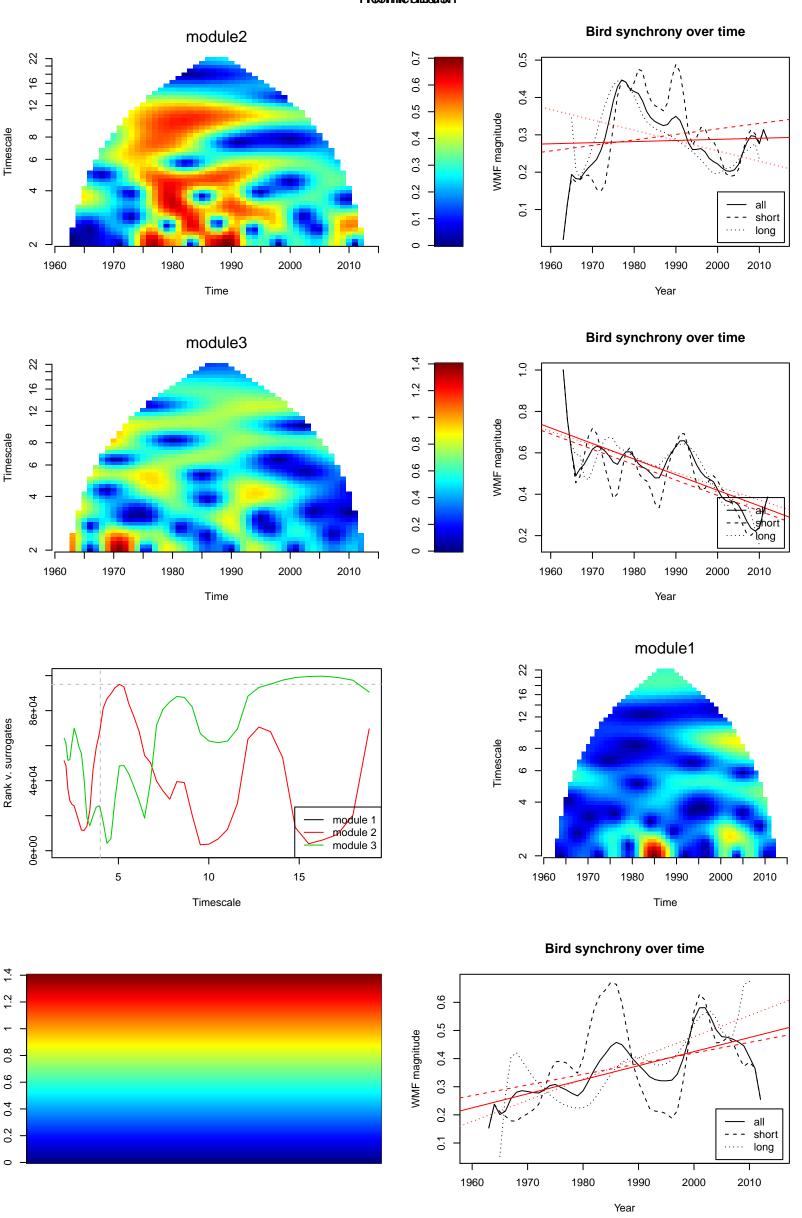
Golden at Bolwelele Konglet



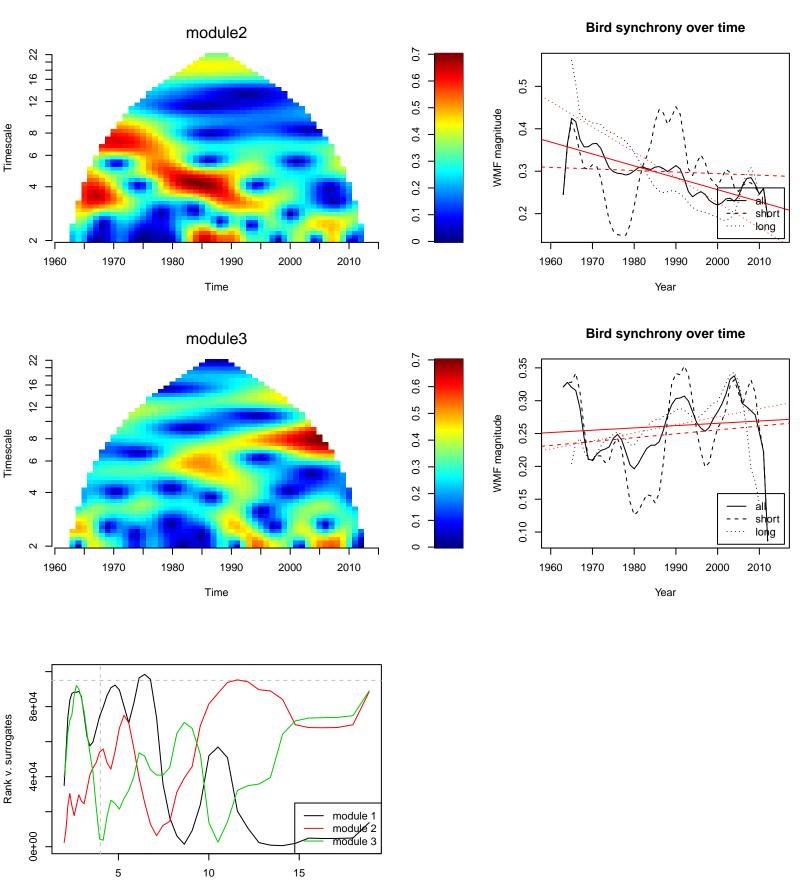
GreatBlueHeron



Helonnie Thuaush



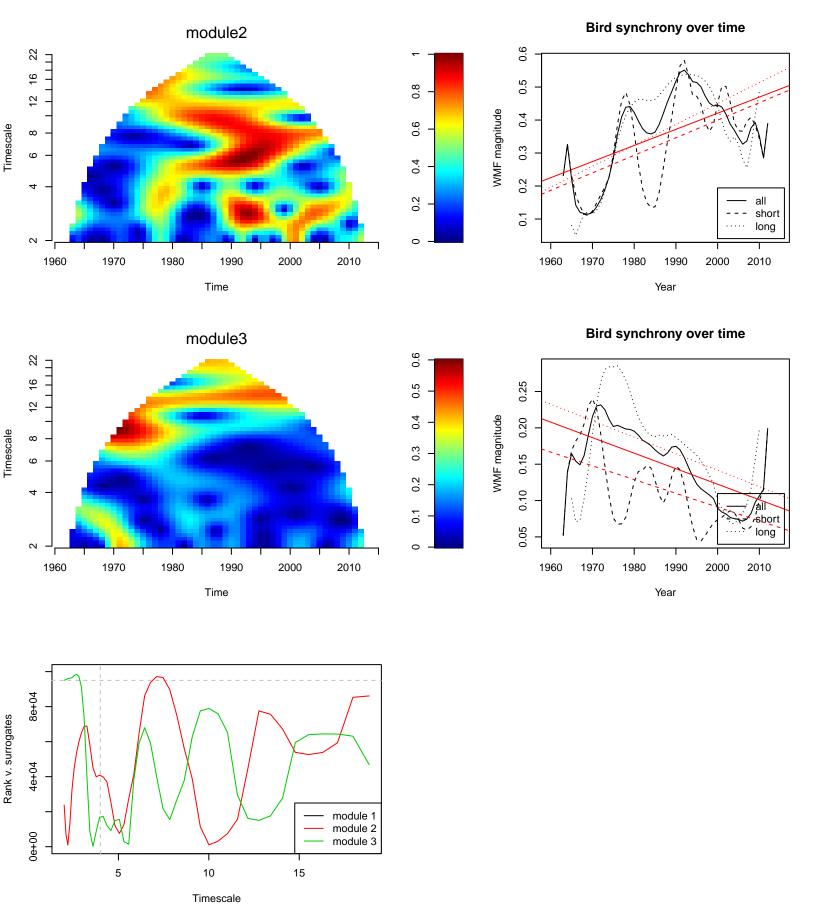
HornedLark



10

Timescale

HouseFinch

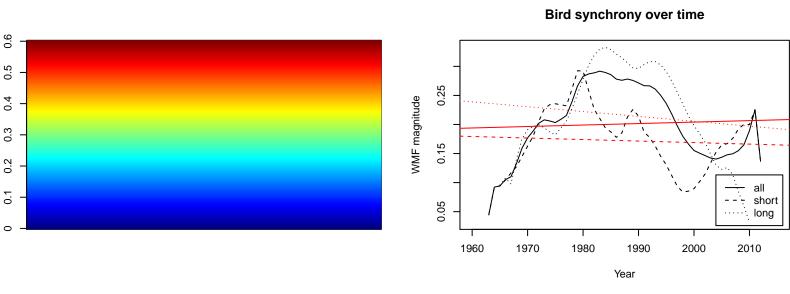


Mo**uktitlicheet**ove Bird synchrony over time module2 0.5 22 0.25 16 9.0 12 WMF magnitude 0.3 ω 0.15 9 0.2 0.10 àا۲ 0.1 s/ort 1960 1970 1980 2000 1960 1970 1980 2010 1990 2010 1990 2000 Time Year Bird synchrony over time module3 9.0 22 16 0.5 0.4 12 0.4 WMF magnitude ω 0.3 9 0.2 0.2 all 0.1 0.1 short long 0 1960 1970 1980 1990 2000 2010 1960 1970 1980 1990 2000 2010 Time Year module1 22 16 12 Timescale ∞ 4e+04 medule 1 module 2 0e+00 module 3 5 15 10 1970 1980 1990 2000 2010 1960 Time Timescale Bird synchrony over time

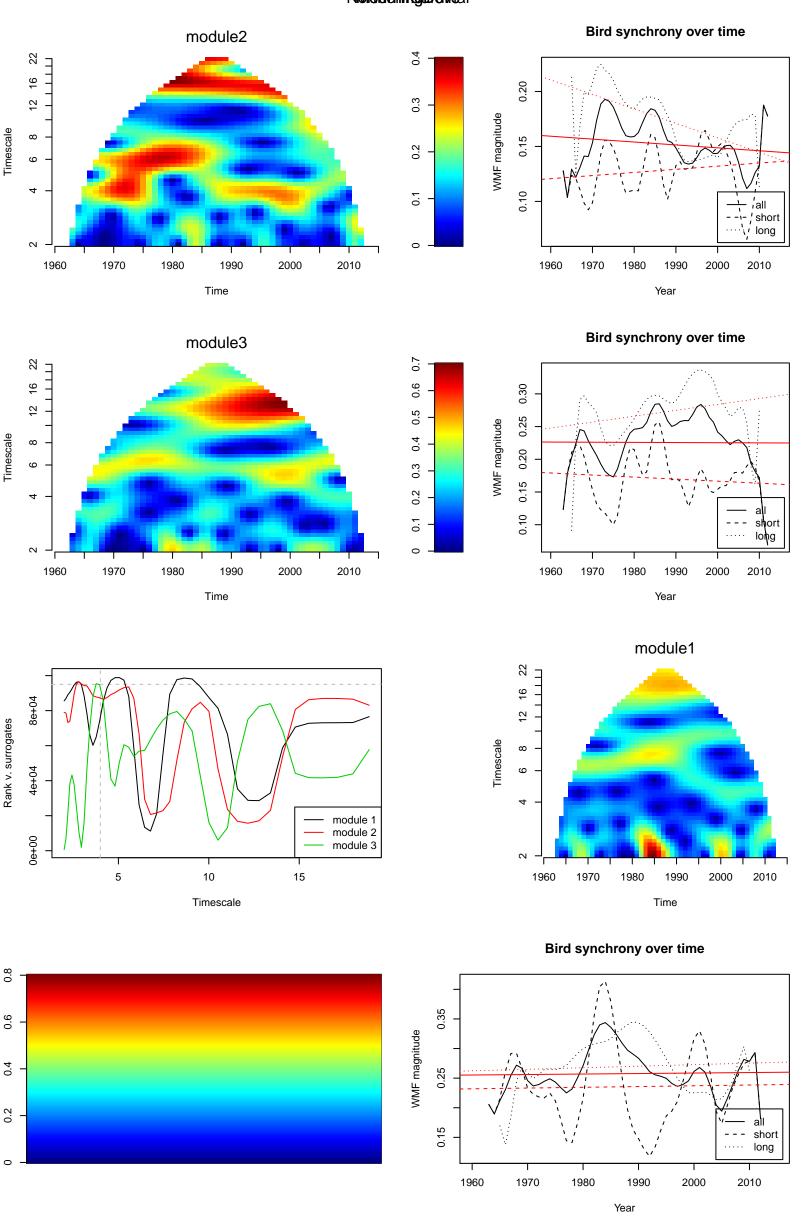
Timescale

Timescale

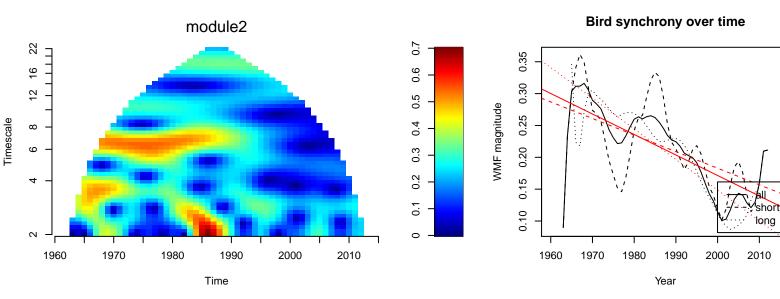
Rank v. surrogates

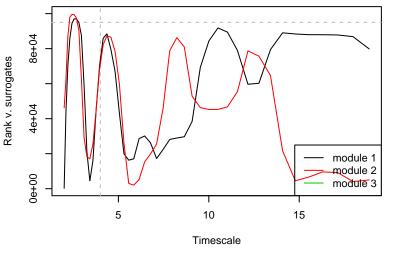


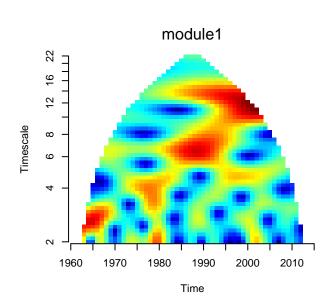
Nikolobenin@Dodineal

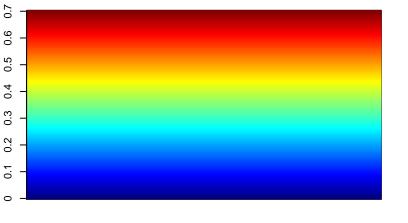


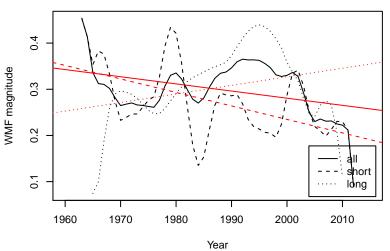
Nvborttheern C-barchineal



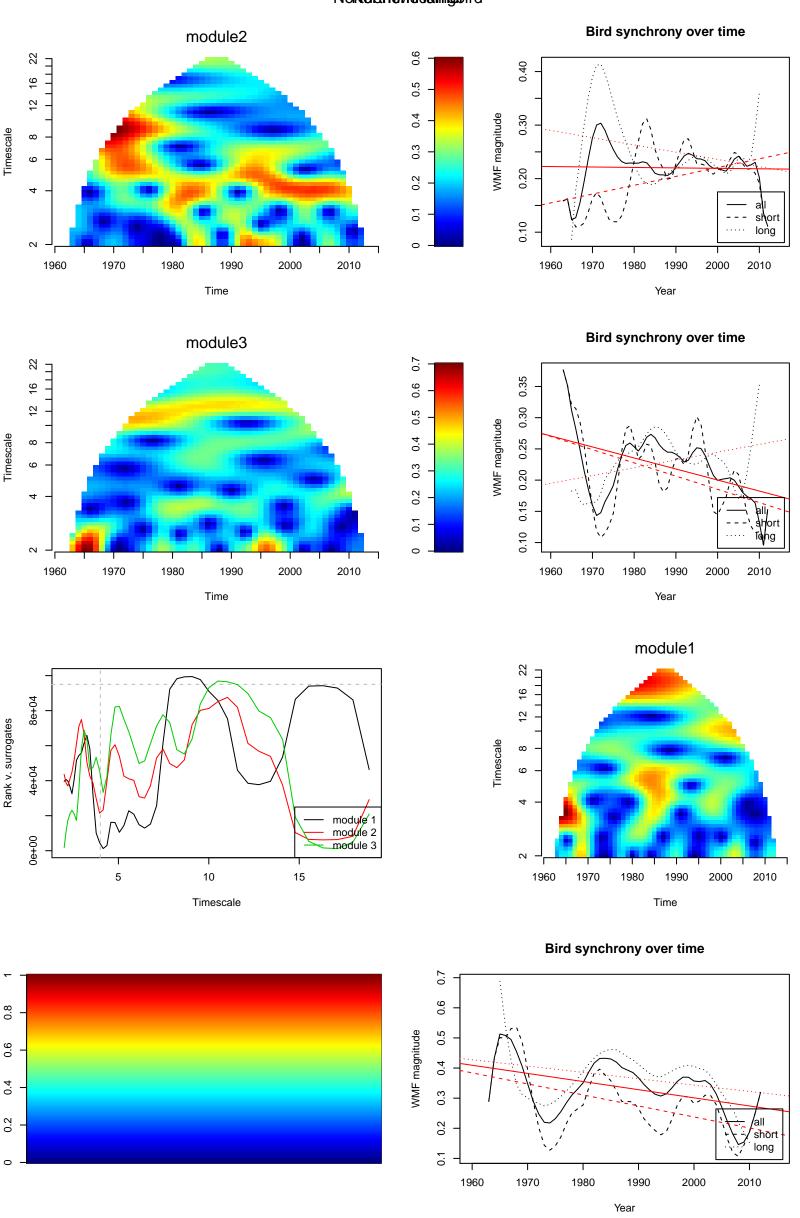




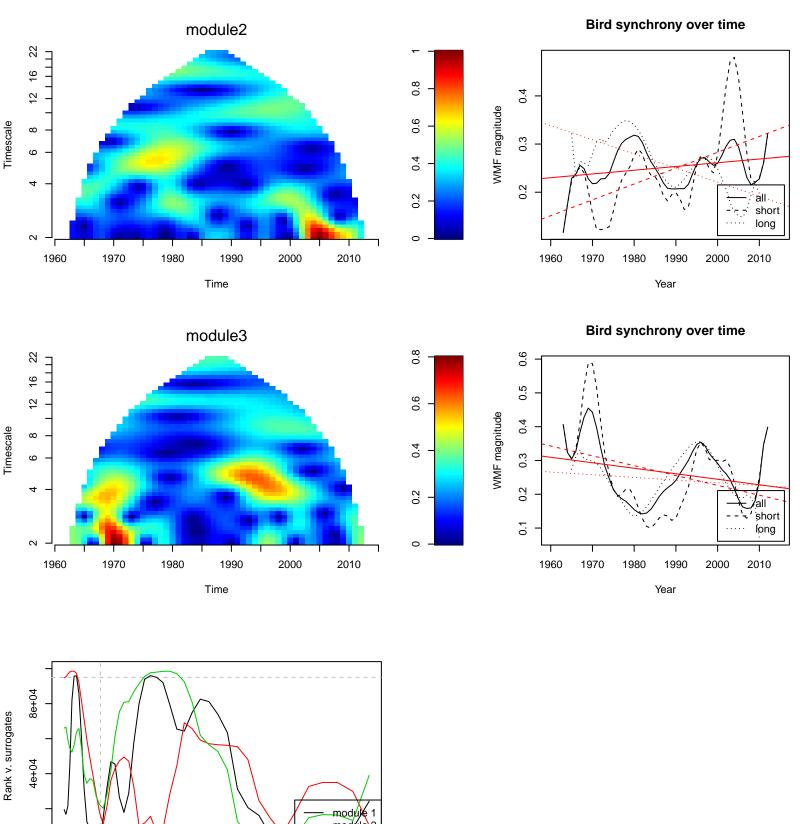




No Into extret/hold taiming to ind



NorthernMockingbird



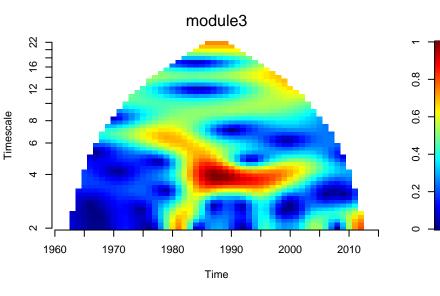
module 3

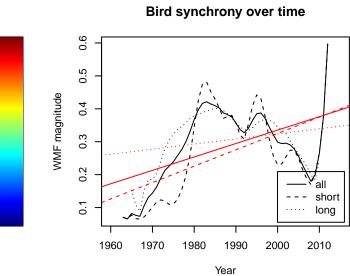
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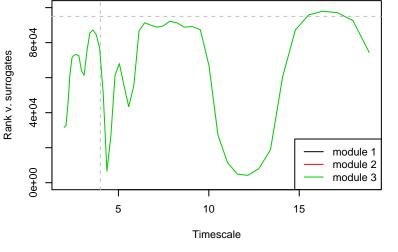
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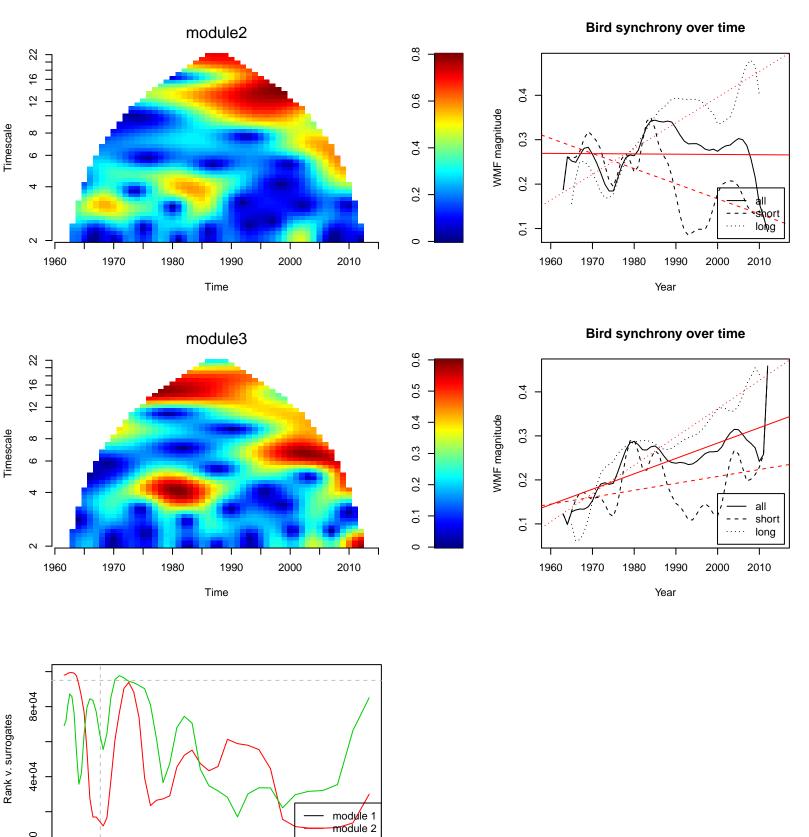
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PiedBilledGrebe



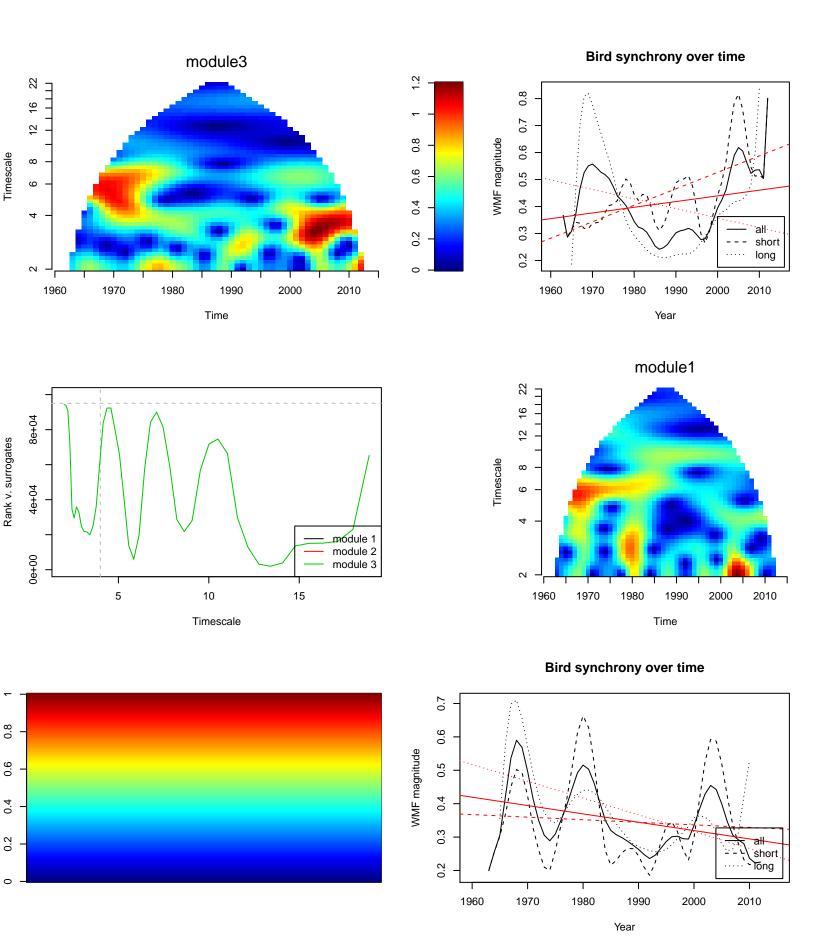
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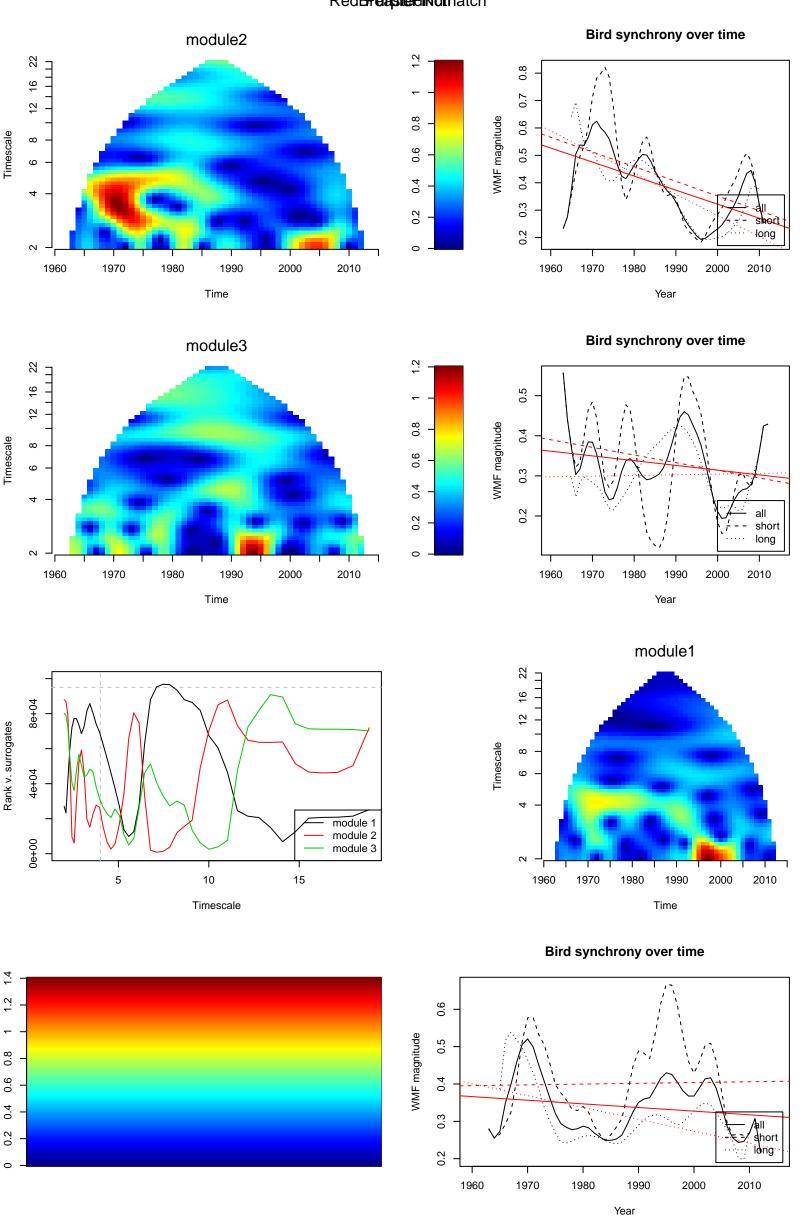
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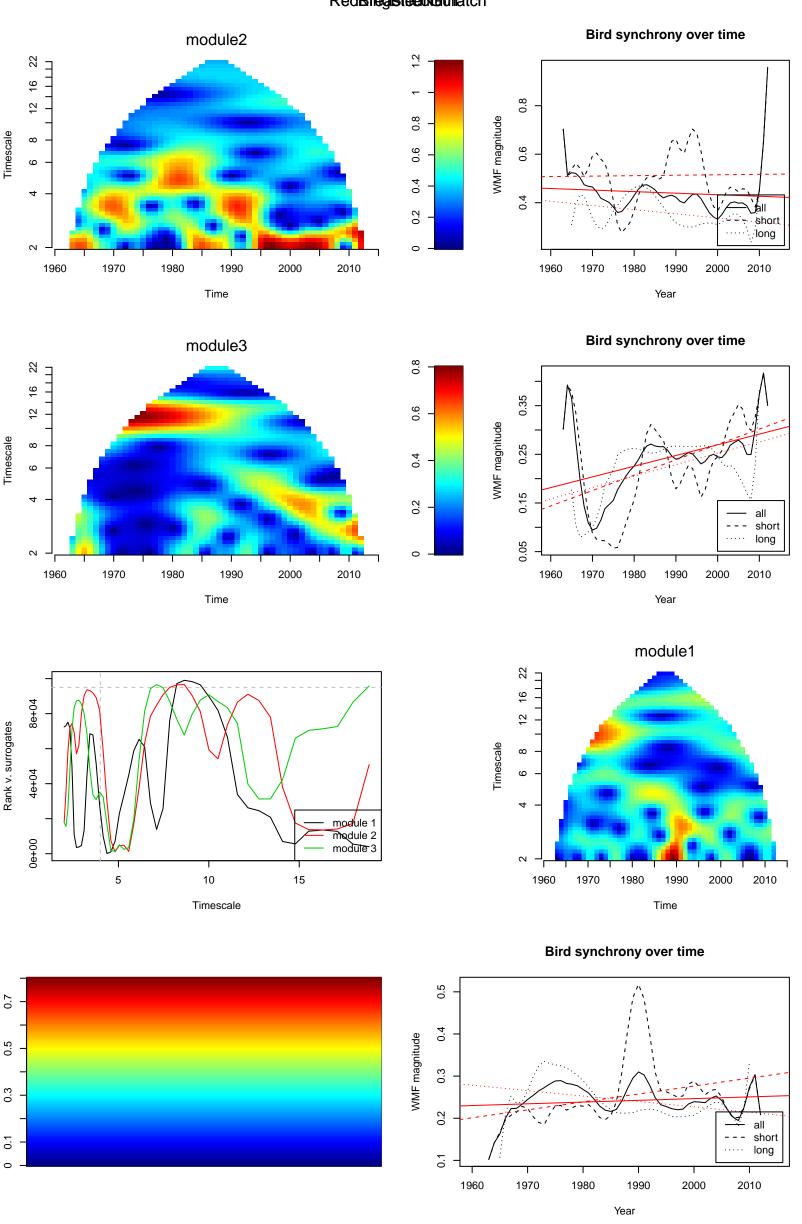
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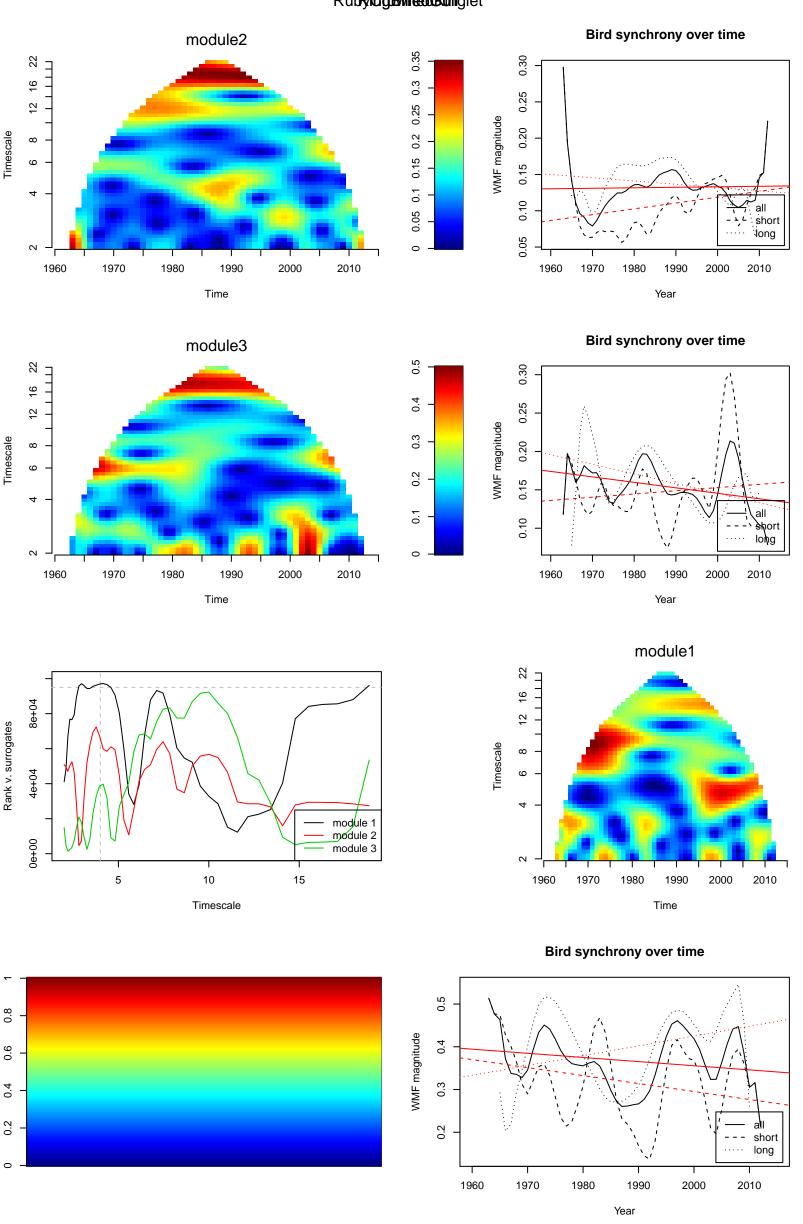
Red BP capte lind thatch



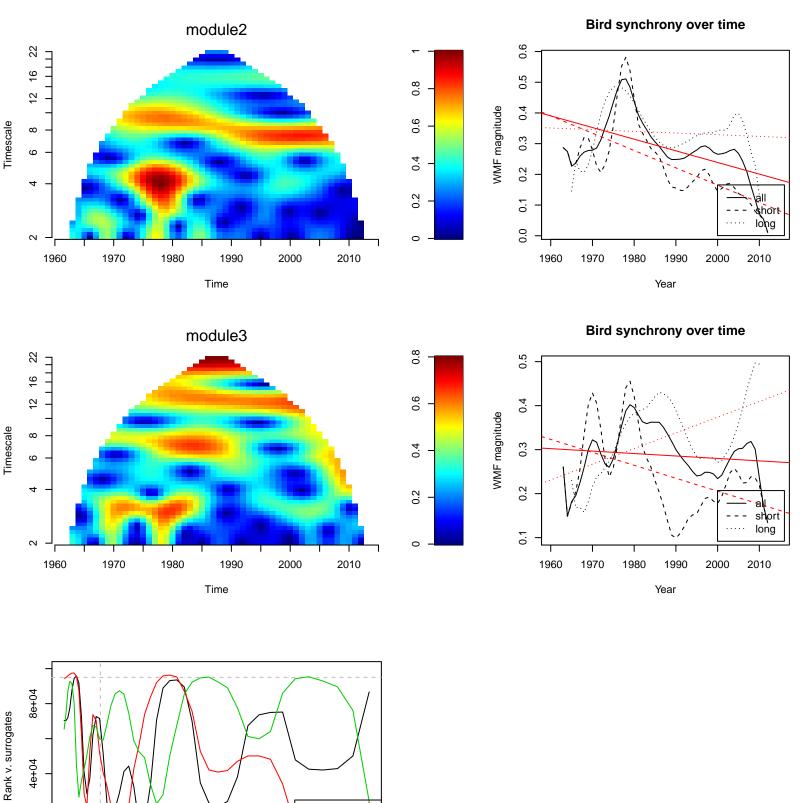
Red Bineal Steel Northlatch



Rub Rich go Brill teed to Birth glet



RubyCrownedKinglet



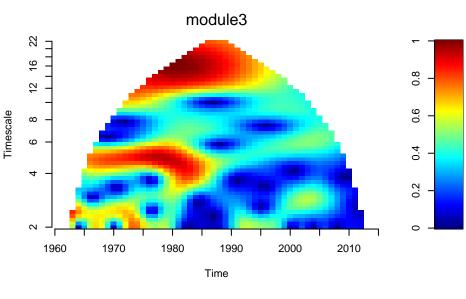
module 1 module 2 module 3

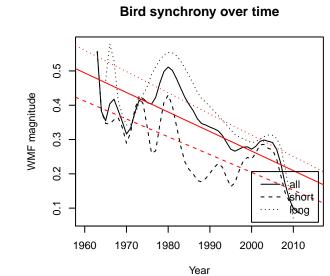
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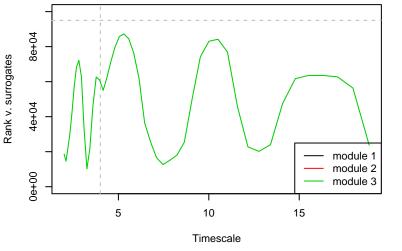
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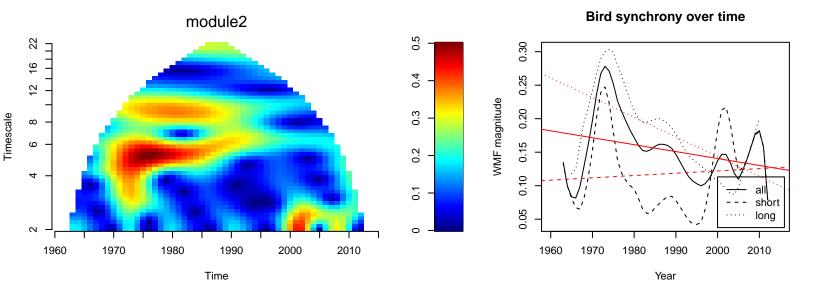
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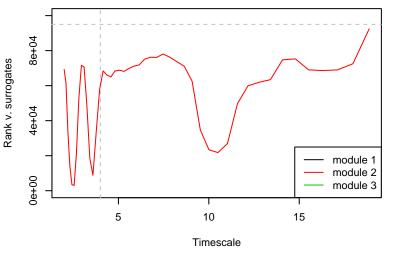


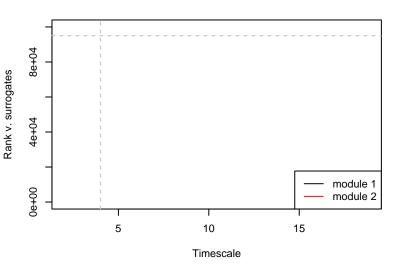


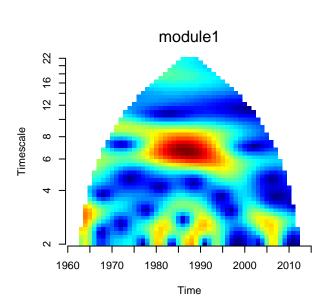


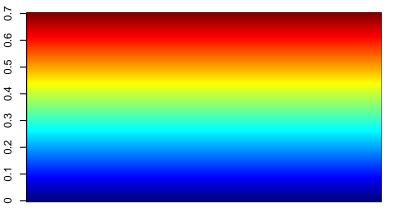
ScreechOwl

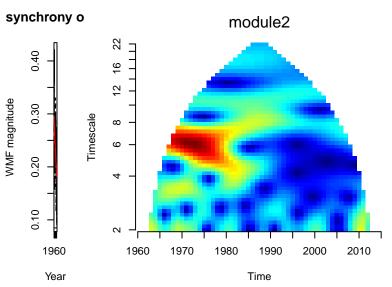


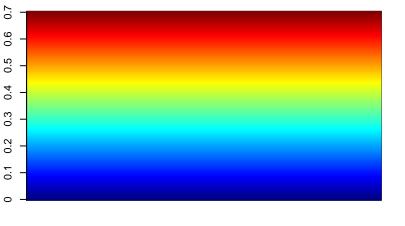


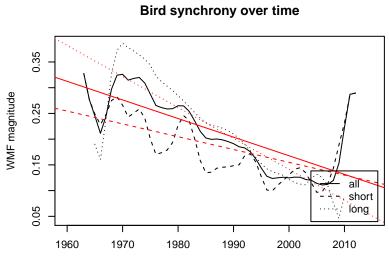






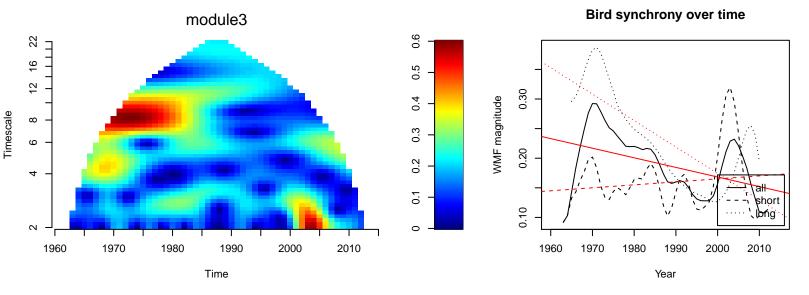


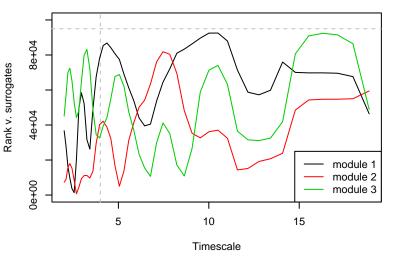




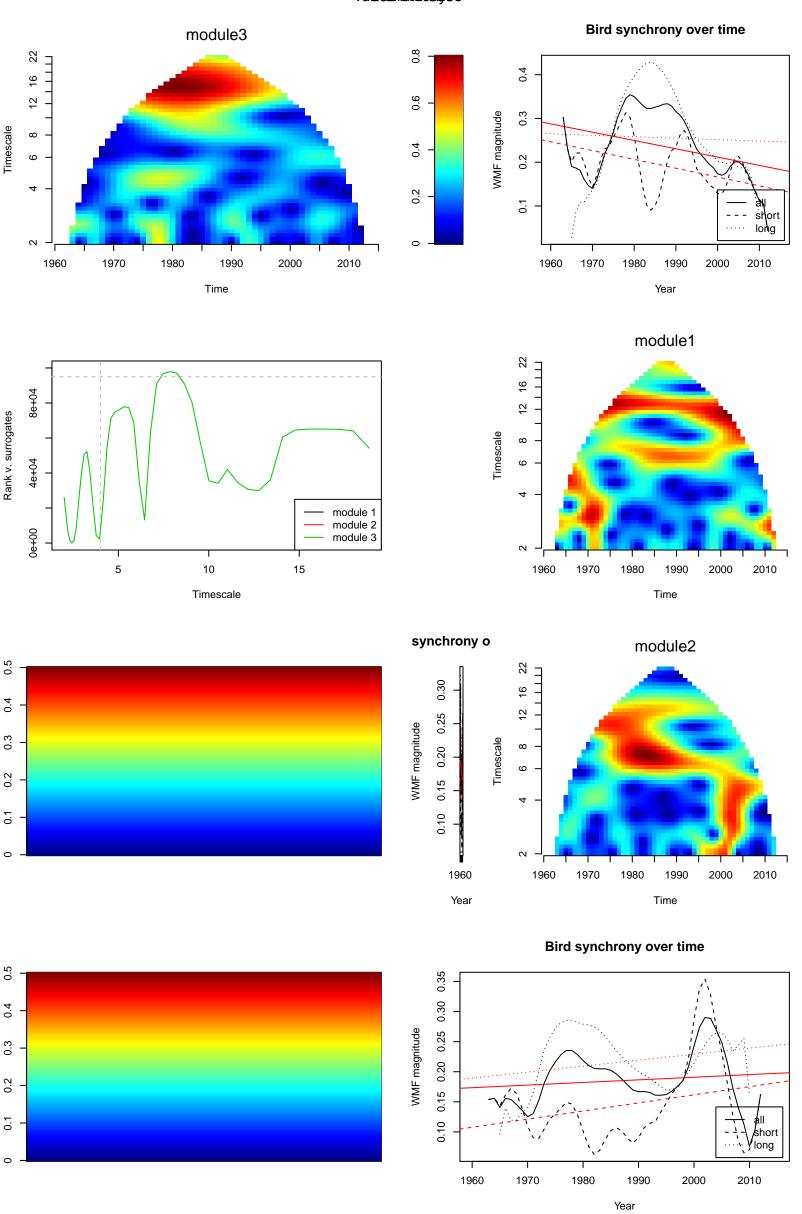
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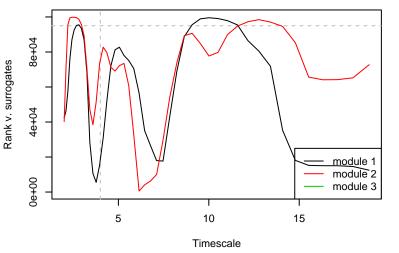
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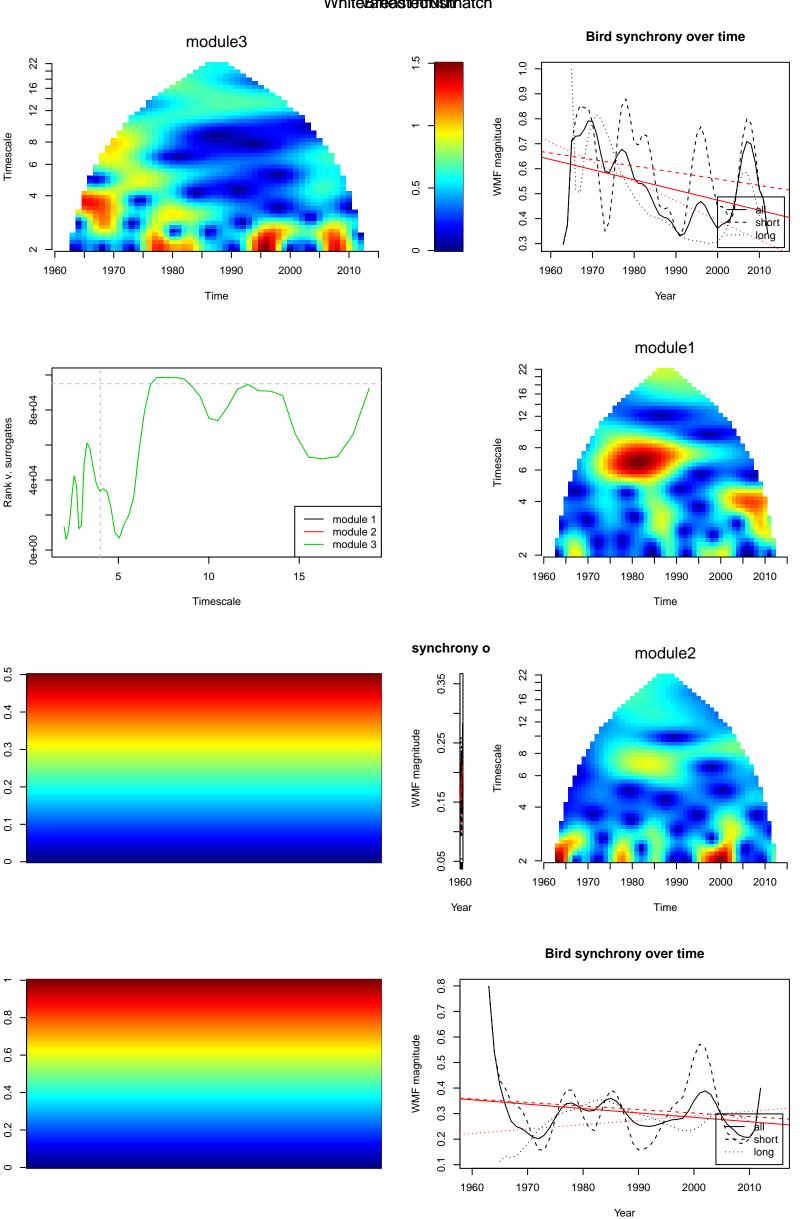


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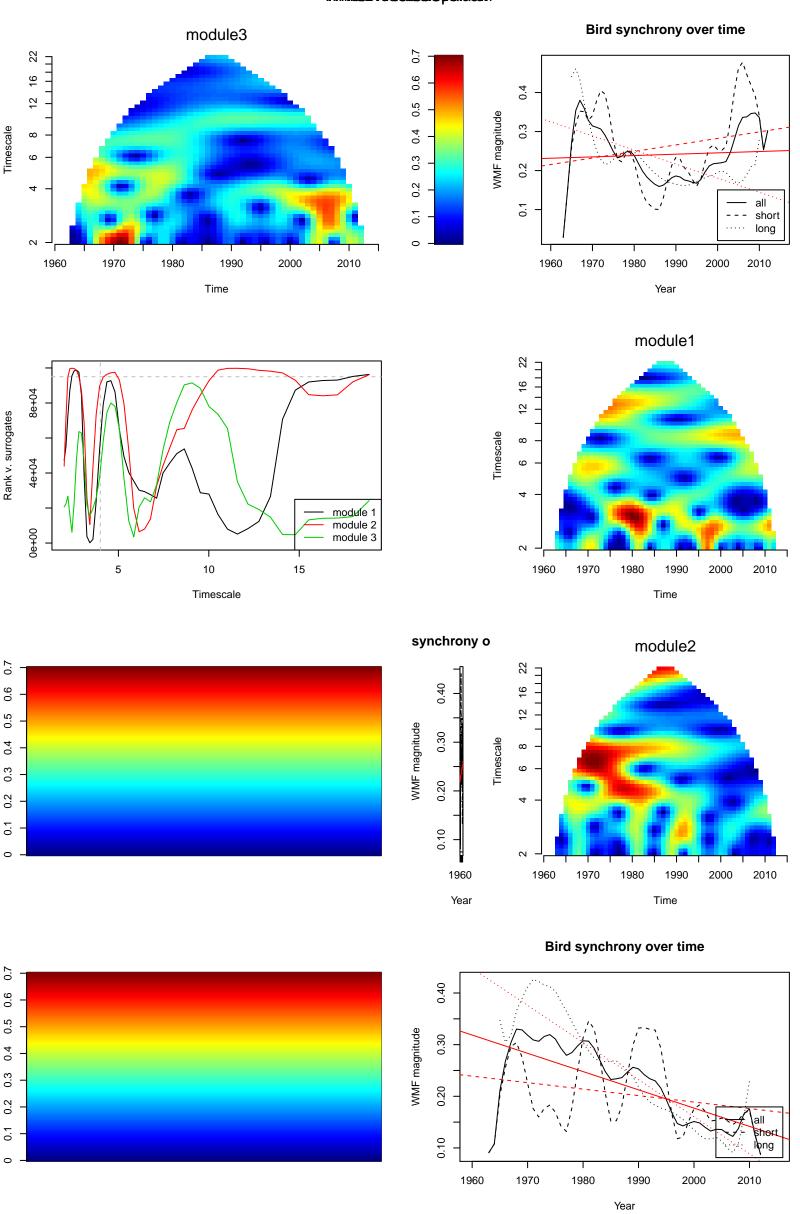


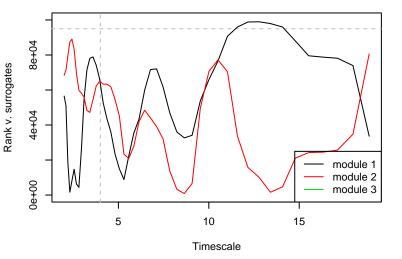


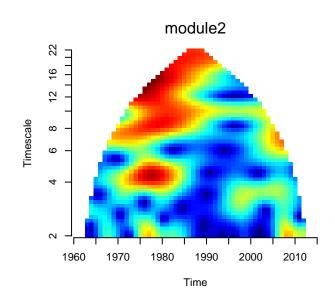
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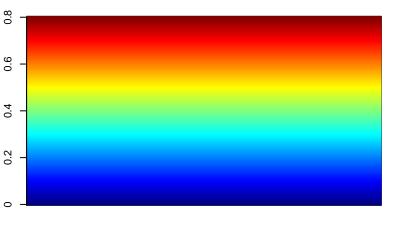


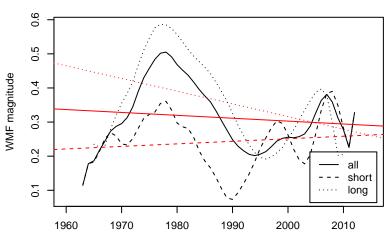
White Breastled Sptaratoch



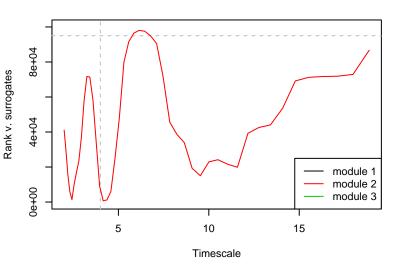


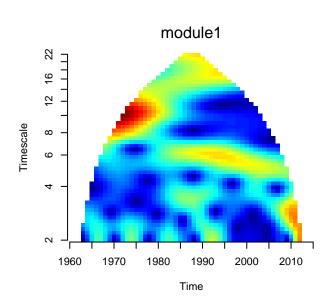


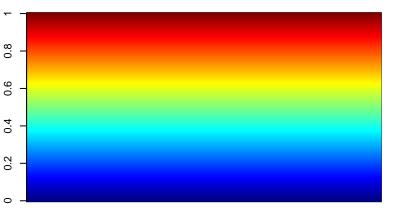


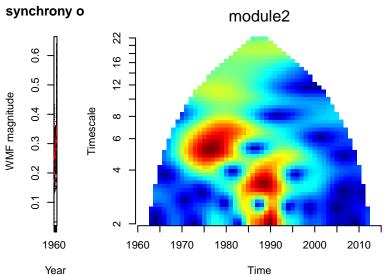


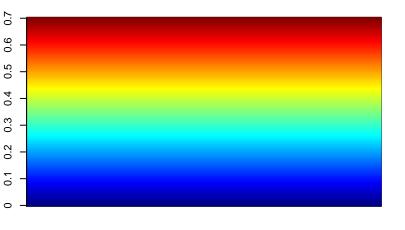
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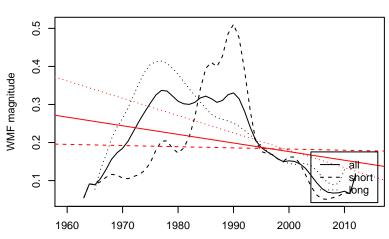




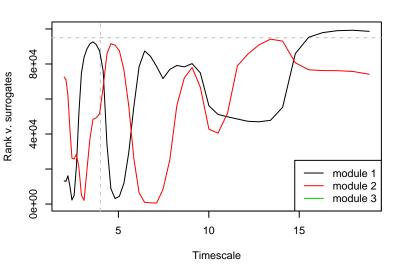


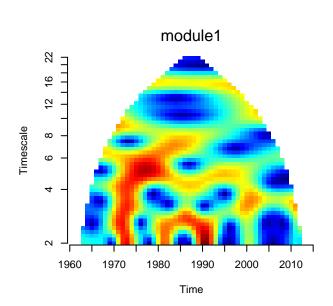


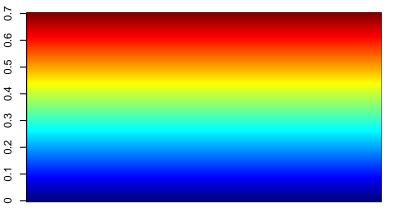


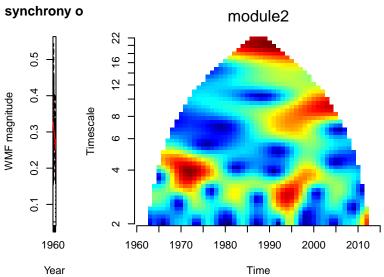


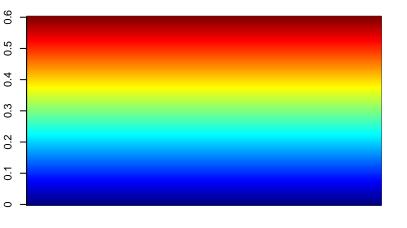
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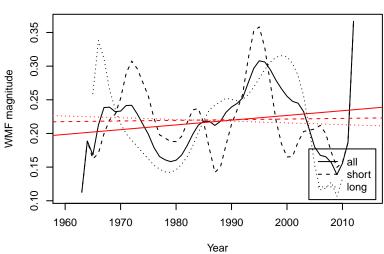












YellowRumpedWarbler

