

# fire-color: Rbeast

identifying post-fire color changes in lakes of the western U.S.

Bella Oleksy et al.

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## 1 Filter out some data

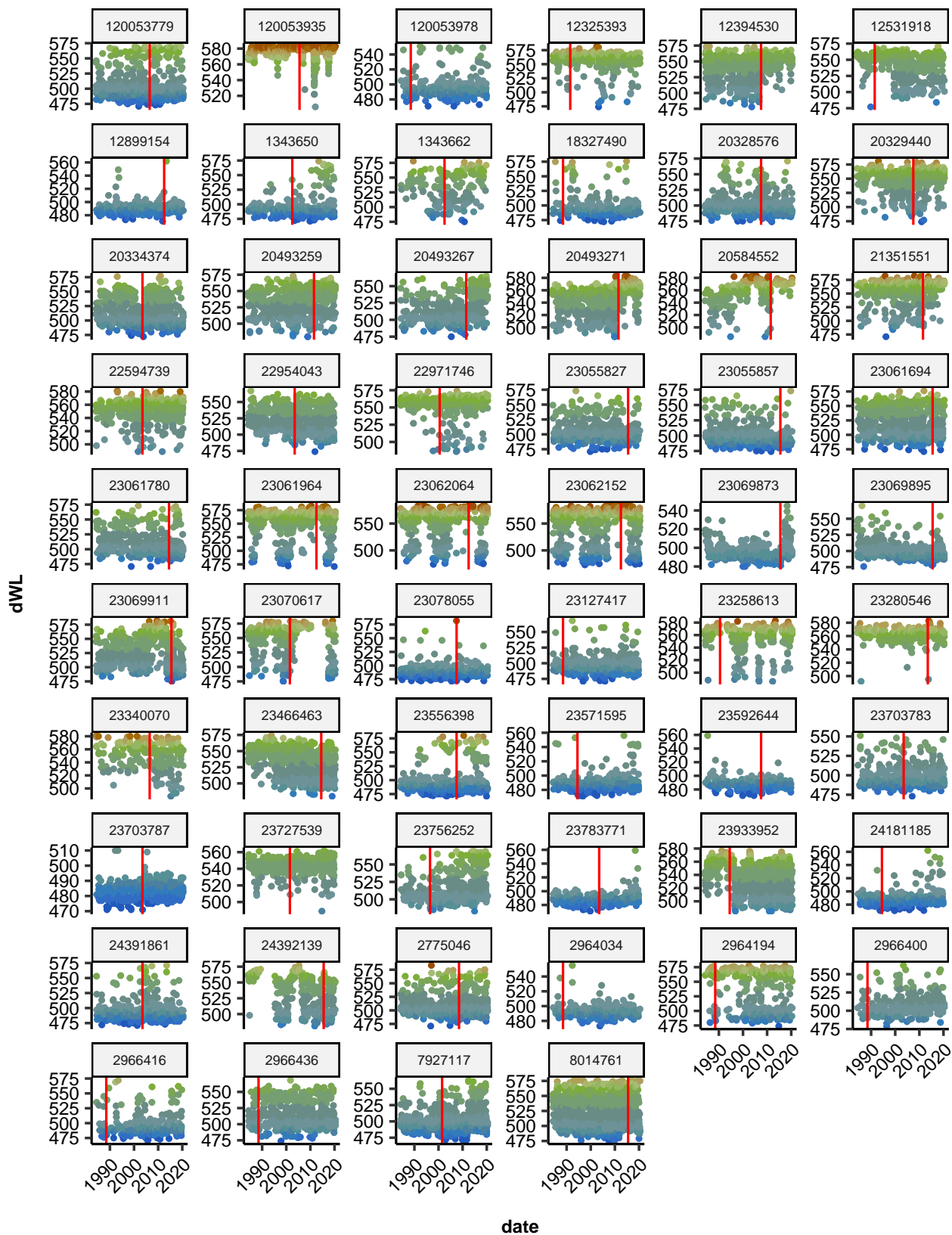
Some decisions I made:

- Set each burn year date to July 1st
- Exclude and  $dWL < 470$  &  $> 583$
- Include at least 5 years of pre- and post-fire color data

We are then go from 71 lakes to 58 lakes.

## 1.0.1 Preview all sites

### Raw data



## 2 Rbeast demo

Before we build the model pipeline, I want to demonstrate what sort of output we can get from the models

### 2.1 Build the model

```
FALSE On the first run,check the CPU instruction set ...
FALSE
FALSE 7
FALSE CPU Vendor:
FALSE     AMD=No
FALSE     Intel=Yes
FALSE
FALSE OS Features:
FALSE     OS AVX=No
FALSE     OS AVX512=No
FALSE
FALSE Hardware Features:
FALSE     MMX=Yes
FALSE     x64=Yes
FALSE     ABM=No
FALSE     RDRAND=No
FALSE     RDSEED=No
FALSE     BMI1=No
FALSE     BMI2=No
FALSE     ADX=No
FALSE     MPX=No
FALSE     PREFETCHW=No
FALSE     PREFETCHWT1=No
FALSE     RDPID=No
FALSE     GFNI=No
FALSE     VAES=No
FALSE
FALSE SIMD: 128-bit
FALSE     SSE=Yes
FALSE     SSE2=Yes
FALSE     SSE3=Yes
FALSE     SSSE3=Yes
FALSE     SSE4a=No
FALSE     SSE4.1=Yes
FALSE     SSE4.2=Yes
FALSE     AES-NI=Yes
FALSE     SHA=No
FALSE
FALSE SIMD: 256-bit
FALSE     AVX=No
FALSE     XOP=No
FALSE     FMA3=No
FALSE     FMA4=No
FALSE     AVX2=No
FALSE
FALSE SIMD: 512-bit
FALSE     AVX512-F=No
FALSE     AVX512-CD=No
```

```

FALSE      AVX512-PF=No
FALSE      AVX512-ER=No
FALSE      AVX512-VL=No
FALSE      AVX512-BW=No
FALSE      AVX512-DQ=No
FALSE      AVX512-IFMA=No
FALSE      AVX512-VBMI=No
FALSE      AVX512-VPOPCNTDQ=No
FALSE      AVX512-4FMAPS=No
FALSE      AVX512-4VNNIW=No
FALSE      AVX512-VBMI2=No
FALSE      AVX512-VPCLMUL=No
FALSE      AVX512-VNNI=No
FALSE      AVX512-BITALG=No
FALSE      AVX512-BF16=No
FALSE
FALSE Summary
FALSE      Safe to use AVX:      No
FALSE      Safe to use AVX512:  No
FALSE
FALSE Cache ID 0:
FALSE - Level: 1
FALSE - Type: Data Cache
FALSE - Sets: 256
FALSE - System Coherency Line Size: 64 bytes
FALSE - Physical Line partitions: 1
FALSE - Ways of associativity: 8
FALSE - Total Size: 131072 bytes (128 kb)
FALSE - Is fully associative: false
FALSE - Is Self Initializing: true
FALSE
FALSE Cache ID 1:
FALSE - Level: 1
FALSE - Type: Instruction Cache
FALSE - Sets: 256
FALSE - System Coherency Line Size: 64 bytes
FALSE - Physical Line partitions: 1
FALSE - Ways of associativity: 8
FALSE - Total Size: 131072 bytes (128 kb)
FALSE - Is fully associative: false
FALSE - Is Self Initializing: true
FALSE
FALSE Cache ID 2:
FALSE - Level: 2
FALSE - Type: Unified Cache
FALSE - Sets: 8192
FALSE - System Coherency Line Size: 64 bytes
FALSE - Physical Line partitions: 1
FALSE - Ways of associativity: 16
FALSE - Total Size: 8388608 bytes (8192 kb)
FALSE - Is fully associative: false
FALSE - Is Self Initializing: true
FALSE
FALSE CPU checking result: No AVX2/AVX512 is supported and the default library is used ...

```

```

FALSE
FALSE
FALSE #-----#
FALSE #      OPTIONS used in the MCMC inference      #
FALSE #-----#
FALSE #set extra$printOptions=0 to suppress the printing #
FALSE #-----#
FALSE
FALSE #.....Start of displaying 'MetaData' .....
FALSE   metadata=list()
FALSE   metadata$isRegularOrdered=FALSE
FALSE   metadata$season='harmonic'
FALSE   metadata$period=1.000000
FALSE   metadata$startTime=1984.25000
FALSE   metadata$deltaTime=0.08333
FALSE   metadata$whichDimIsTime=1
FALSE   metadata$missingValue=NaN
FALSE   metadata$maxMissingRate=0.7500
FALSE   metadata$deseasonalize=FALSE
FALSE   metadata$detrend=FALSE
FALSE #.....End of displaying MetaData .....
FALSE
FALSE #.....Start of displaying 'prior' .....
FALSE   prior=list()
FALSE   prior$modelPriorType=1
FALSE   prior$seasonMinOrder=1
FALSE   prior$seasonMaxOrder=5
FALSE   prior$seasonMinKnotNum=0
FALSE   prior$seasonMaxKnotNum=10
FALSE   prior$seasonMinSepDist=6
FALSE   prior$trendMinOrder=0
FALSE   prior$trendMaxOrder=1
FALSE   prior$trendMinKnotNum=0
FALSE   prior$trendMaxKnotNum=10
FALSE   prior$trendMinSepDist=6
FALSE   prior$K_MAX=132
FALSE   prior$precValue=1.500000
FALSE   prior$precPriorType='uniform'
FALSE #.....End of displaying pripr .....
FALSE
FALSE #.....Start of displaying 'mcmc' .....
FALSE   mcmc=list()
FALSE   mcmc$seed=0
FALSE   mcmc$samples=8000
FALSE   mcmc$thinningFactor=5
FALSE   mcmc$burnin=200
FALSE   mcmc$chainNumber=3
FALSE   mcmc$maxMoveStepSize=12
FALSE   mcmc$trendResamplingOrderProb=0.1000
FALSE   mcmc$seasonResamplingOrderProb=0.1700
FALSE   mcmc$credIntervalAlphaLevel=0.950
FALSE #.....End of displaying mcmc .....
FALSE
FALSE #.....Start of displaying 'extra' .....

```

```

FALSE      extra=list()
FALSE      extra$dumpInputData=TRUE
FALSE      extra$whichOutputDimIsTime=1
FALSE      extra$computeCredible=TRUE
FALSE      extra$fastCIComputation=TRUE
FALSE      extra$computeSeasonOrder=TRUE
FALSE      extra$computeTrendOrder=TRUE
FALSE      extra$computeSeasonChngpt=TRUE
FALSE      extra$computeTrendChngpt=TRUE
FALSE      extra$computeSeasonAmp=TRUE
FALSE      extra$computeTrendSlope=TRUE
FALSE      extra$tallyPosNegSeasonJump=FALSE
FALSE      extra$tallyPosNegTrendJump=TRUE
FALSE      extra$tallyIncDecTrendJump=TRUE
FALSE      extra$printProgressBar=TRUE
FALSE      extra$printOptions=TRUE
FALSE      extra$consoleWidth=80
FALSE      extra$numThreadsPerCPU=2
FALSE      extra$numParThreads=0
FALSE      #.....End of displaying extra .....
FALSE
FALSE      -Progress:  0.0% done[>*****]\Progress:  4.2%
FALSE
FALSE      #-----#
FALSE      #      OPTIONS used in the MCMC inference      #
FALSE      #-----#
FALSE      #set extra$printOptions=0 to suppress the printing #
FALSE      #-----#
FALSE
FALSE      #.....Start of displaying 'MetaData' .....
FALSE      metadata=list()
FALSE      metadata$isRegularOrdered=FALSE
FALSE      metadata$season='harmonic'
FALSE      metadata$period=1.000000
FALSE      metadata$startTime=1984.33337
FALSE      metadata$deltaTime=0.08333
FALSE      metadata$whichDimIsTime=1
FALSE      metadata$missingValue=NaN
FALSE      metadata$maxMissingRate=0.7500
FALSE      metadata$deseasonalize=FALSE
FALSE      metadata$detrend=FALSE
FALSE      #.....End of displaying MetaData .....
FALSE
FALSE      #.....Start of displaying 'prior' .....
FALSE      prior=list()
FALSE      prior$modelPriorType=1
FALSE      prior$seasonMinOrder=1
FALSE      prior$seasonMaxOrder=5
FALSE      prior$seasonMinKnotNum=0
FALSE      prior$seasonMaxKnotNum=10
FALSE      prior$seasonMinSepDist=6
FALSE      prior$trendMinOrder=0
FALSE      prior$trendMaxOrder=1
FALSE      prior$trendMinKnotNum=0

```

```

FALSE    prior$trendMaxKnotNum=10
FALSE    prior$trendMinSepDist=6
FALSE    prior$K_MAX=132
FALSE    prior$precValue=1.500000
FALSE    prior$precPriorType='uniform'
FALSE #.....End of displaying pripr .....
FALSE
FALSE #.....Start of displaying 'mcmc' .....
FALSE    mcmc=list()
FALSE    mcmc$seed=0
FALSE    mcmc$samples=8000
FALSE    mcmc$thinningFactor=5
FALSE    mcmc$burnin=200
FALSE    mcmc$chainNumber=3
FALSE    mcmc$maxMoveStepSize=12
FALSE    mcmc$trendResamplingOrderProb=0.1000
FALSE    mcmc$seasonResamplingOrderProb=0.1700
FALSE    mcmc$credIntervalAlphaLevel=0.950
FALSE #.....End of displaying mcmc .....
FALSE
FALSE #.....Start of displaying 'extra' .....
FALSE    extra=list()
FALSE    extra$dumpInputData=TRUE
FALSE    extra$whichOutputDimIsTime=1
FALSE    extra$computeCredible=TRUE
FALSE    extra$fastCIComputation=TRUE
FALSE    extra$computeSeasonOrder=TRUE
FALSE    extra$computeTrendOrder=TRUE
FALSE    extra$computeSeasonChngpt=TRUE
FALSE    extra$computeTrendChngpt=TRUE
FALSE    extra$computeSeasonAmp=TRUE
FALSE    extra$computeTrendSlope=TRUE
FALSE    extra$tallyPosNegSeasonJump=FALSE
FALSE    extra$tallyPosNegTrendJump=TRUE
FALSE    extra$tallyIncDecTrendJump=TRUE
FALSE    extra$printProgressBar=TRUE
FALSE    extra$printOptions=TRUE
FALSE    extra$consoleWidth=80
FALSE    extra$numThreadsPerCPU=2
FALSE    extra$numParThreads=0
FALSE #.....End of displaying extra .....
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FALSE #-----#
FALSE #      OPTIONS used in the MCMC inference      #
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FALSE #-----#
FALSE
FALSE #.....Start of displaying 'MetaData' .....
FALSE    metadata=list()
FALSE    metadata$isRegularOrdered=FALSE
FALSE    metadata$season='harmonic'

```

```

FALSE      metadata$period=1.000000
FALSE      metadata$startTime=1984.41675
FALSE      metadata$deltaTime=0.08333
FALSE      metadata$whichDimIsTime=1
FALSE      metadata$missingValue=NaN
FALSE      metadata$maxMissingRate=0.7500
FALSE      metadata$deseasonalize=FALSE
FALSE      metadata$detrend=FALSE
FALSE #.....End of displaying MetaData .....
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FALSE      prior=list()
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FALSE      prior$seasonMinKnotNum=0
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FALSE      prior$seasonMinSepDist=6
FALSE      prior$trendMinOrder=0
FALSE      prior$trendMaxOrder=1
FALSE      prior$trendMinKnotNum=0
FALSE      prior$trendMaxKnotNum=10
FALSE      prior$trendMinSepDist=6
FALSE      prior$K_MAX=132
FALSE      prior$precValue=1.500000
FALSE      prior$precPriorType='uniform'
FALSE #.....End of displaying pripr .....
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FALSE      mcmc=list()
FALSE      mcmc$seed=0
FALSE      mcmc$samples=8000
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FALSE      mcmc$burnin=200
FALSE      mcmc$chainNumber=3
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FALSE #.....End of displaying mcmc .....
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FALSE #.....Start of displaying 'extra' .....
FALSE      extra=list()
FALSE      extra$dumpInputData=TRUE
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FALSE      extra$computeSeasonOrder=TRUE
FALSE      extra$computeTrendOrder=TRUE
FALSE      extra$computeSeasonChngpt=TRUE
FALSE      extra$computeTrendChngpt=TRUE
FALSE      extra$computeSeasonAmp=TRUE
FALSE      extra$computeTrendSlope=TRUE
FALSE      extra$tallyPosNegSeasonJump=FALSE

```



```

FALSE      extra$tallyPosNegTrendJump=TRUE
FALSE      extra$tallyIncDecTrendJump=TRUE
FALSE      extra$printProgressBar=TRUE
FALSE      extra$printOptions=TRUE
FALSE      extra$consoleWidth=80
FALSE      extra$numThreadsPerCPU=2
FALSE      extra$numParThreads=0
FALSE #.....End of displaying extra .....
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FALSE      prior$seasonMinSepDist=6
FALSE      prior$trendMinOrder=0
FALSE      prior$trendMaxOrder=1
FALSE      prior$trendMinKnotNum=0
FALSE      prior$trendMaxKnotNum=10
FALSE      prior$trendMinSepDist=6
FALSE      prior$K_MAX=132
FALSE      prior$precValue=1.500000
FALSE      prior$precPriorType='uniform'
FALSE #.....End of displaying pripr .....
FALSE
FALSE #.....Start of displaying 'mcmc' .....
FALSE      mcmc=list()
FALSE      mcmc$seed=0
FALSE      mcmc$samples=8000
FALSE      mcmc$thinningFactor=5

```

```

FALSE      mcmc$burnin=200
FALSE      mcmc$chainNumber=3
FALSE      mcmc$maxMoveStepSize=12
FALSE      mcmc$trendResamplingOrderProb=0.1000
FALSE      mcmc$seasonResamplingOrderProb=0.1700
FALSE      mcmc$credIntervalAlphaLevel=0.950
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FALSE      extra$computeTrendChngpt=TRUE
FALSE      extra$computeSeasonAmp=TRUE
FALSE      extra$computeTrendSlope=TRUE
FALSE      extra$tallyPosNegSeasonJump=FALSE
FALSE      extra$tallyPosNegTrendJump=TRUE
FALSE      extra$tallyIncDecTrendJump=TRUE
FALSE      extra$printProgressBar=TRUE
FALSE      extra$printOptions=TRUE
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FALSE      extra$numThreadsPerCPU=2
FALSE      extra$numParThreads=0
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FALSE      metadata$deltaTime=0.08333
FALSE      metadata$whichDimIsTime=1
FALSE      metadata$missingValue=NaN
FALSE      metadata$maxMissingRate=0.7500
FALSE      metadata$deseasonalize=FALSE
FALSE      metadata$detrend=FALSE
FALSE #.....End of displaying MetaData .....
FALSE
FALSE #.....Start of displaying 'prior' .....
FALSE      prior=list()

```

```

FALSE    prior$modelPriorType=1
FALSE    prior$seasonMinOrder=1
FALSE    prior$seasonMaxOrder=5
FALSE    prior$seasonMinKnotNum=0
FALSE    prior$seasonMaxKnotNum=10
FALSE    prior$seasonMinSepDist=6
FALSE    prior$trendMinOrder=0
FALSE    prior$trendMaxOrder=1
FALSE    prior$trendMinKnotNum=0
FALSE    prior$trendMaxKnotNum=10
FALSE    prior$trendMinSepDist=6
FALSE    prior$K_MAX=132
FALSE    prior$precValue=1.500000
FALSE    prior$precPriorType='uniform'
FALSE #.....End of displaying pripr .....
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FALSE    mcmc=list()
FALSE    mcmc$seed=0
FALSE    mcmc$samples=8000
FALSE    mcmc$thinningFactor=5
FALSE    mcmc$burnin=200
FALSE    mcmc$chainNumber=3
FALSE    mcmc$maxMoveStepSize=12
FALSE    mcmc$trendResamplingOrderProb=0.1000
FALSE    mcmc$seasonResamplingOrderProb=0.1700
FALSE    mcmc$credIntervalAlphaLevel=0.950
FALSE #.....End of displaying mcmc .....
FALSE
FALSE #.....Start of displaying 'extra' .....
FALSE    extra=list()
FALSE    extra$dumpInputData=TRUE
FALSE    extra$whichOutputDimIsTime=1
FALSE    extra$computeCredible=TRUE
FALSE    extra$fastCIComputation=TRUE
FALSE    extra$computeSeasonOrder=TRUE
FALSE    extra$computeTrendOrder=TRUE
FALSE    extra$computeSeasonChngpt=TRUE
FALSE    extra$computeTrendChngpt=TRUE
FALSE    extra$computeSeasonAmp=TRUE
FALSE    extra$computeTrendSlope=TRUE
FALSE    extra$tallyPosNegSeasonJump=FALSE
FALSE    extra$tallyPosNegTrendJump=TRUE
FALSE    extra$tallyIncDecTrendJump=TRUE
FALSE    extra$printProgressBar=TRUE
FALSE    extra$printOptions=TRUE
FALSE    extra$consoleWidth=80
FALSE    extra$numThreadsPerCPU=2
FALSE    extra$numParThreads=0
FALSE #.....End of displaying extra .....
FALSE
FALSE -Progress:  0.0% done[>*****]\Progress:  4.2%
FALSE
FALSE #-----#

```

```

FALSE #      OPTIONS used in the MCMC inference      #
FALSE #-----#
FALSE #set extra$printOptions=0 to suppress the printing #
FALSE #-----#
FALSE
FALSE #.....Start of displaying 'MetaData' .....
FALSE   metadata=list()
FALSE   metadata$isRegularOrdered=FALSE
FALSE   metadata$season='harmonic'
FALSE   metadata$period=1.000000
FALSE   metadata$startTime=1984.25000
FALSE   metadata$deltaTime=0.08333
FALSE   metadata$whichDimIsTime=1
FALSE   metadata$missingValue=NaN
FALSE   metadata$maxMissingRate=0.7500
FALSE   metadata$deseasonalize=FALSE
FALSE   metadata$detrend=FALSE
FALSE #.....End of displaying MetaData .....
FALSE
FALSE #.....Start of displaying 'prior' .....
FALSE   prior=list()
FALSE   prior$modelPriorType=1
FALSE   prior$seasonMinOrder=1
FALSE   prior$seasonMaxOrder=5
FALSE   prior$seasonMinKnotNum=0
FALSE   prior$seasonMaxKnotNum=10
FALSE   prior$seasonMinSepDist=6
FALSE   prior$trendMinOrder=0
FALSE   prior$trendMaxOrder=1
FALSE   prior$trendMinKnotNum=0
FALSE   prior$trendMaxKnotNum=10
FALSE   prior$trendMinSepDist=6
FALSE   prior$K_MAX=132
FALSE   prior$precValue=1.500000
FALSE   prior$precPriorType='uniform'
FALSE #.....End of displaying pripr .....
FALSE
FALSE #.....Start of displaying 'mcmc' .....
FALSE   mcmc=list()
FALSE   mcmc$seed=0
FALSE   mcmc$samples=8000
FALSE   mcmc$thinningFactor=5
FALSE   mcmc$burnin=200
FALSE   mcmc$chainNumber=3
FALSE   mcmc$maxMoveStepSize=12
FALSE   mcmc$trendResamplingOrderProb=0.1000
FALSE   mcmc$seasonResamplingOrderProb=0.1700
FALSE   mcmc$credIntervalAlphaLevel=0.950
FALSE #.....End of displaying mcmc .....
FALSE
FALSE #.....Start of displaying 'extra' .....
FALSE   extra=list()
FALSE   extra$dumpInputData=TRUE
FALSE   extra$whichOutputDimIsTime=1

```

```

FALSE      extra$computeCredible=TRUE
FALSE      extra$fastCIComputation=TRUE
FALSE      extra$computeSeasonOrder=TRUE
FALSE      extra$computeTrendOrder=TRUE
FALSE      extra$computeSeasonChngpt=TRUE
FALSE      extra$computeTrendChngpt=TRUE
FALSE      extra$computeSeasonAmp=TRUE
FALSE      extra$computeTrendSlope=TRUE
FALSE      extra$tallyPosNegSeasonJump=FALSE
FALSE      extra$tallyPosNegTrendJump=TRUE
FALSE      extra$tallyIncDecTrendJump=TRUE
FALSE      extra$printProgressBar=TRUE
FALSE      extra$printOptions=TRUE
FALSE      extra$consoleWidth=80
FALSE      extra$numThreadsPerCPU=2
FALSE      extra$numParThreads=0
FALSE      #.....End of displaying extra .....
FALSE
FALSE      \Progress:  0.0% done[>*****]Progress:  4.2%
FALSE
FALSE      #-----#
FALSE      #      OPTIONS used in the MCMC inference      #
FALSE      #-----#
FALSE      #set extra$printOptions=0 to suppress the printing #
FALSE      #-----#
FALSE
FALSE      #.....Start of displaying 'MetaData' .....
FALSE      metadata=list()
FALSE      metadata$isRegularOrdered=FALSE
FALSE      metadata$season='harmonic'
FALSE      metadata$period=1.000000
FALSE      metadata$startTime=1984.50000
FALSE      metadata$deltaTime=0.08333
FALSE      metadata$whichDimIsTime=1
FALSE      metadata$missingValue=NaN
FALSE      metadata$maxMissingRate=0.7500
FALSE      metadata$deseasonalize=FALSE
FALSE      metadata$detrend=FALSE
FALSE      #.....End of displaying MetaData .....
FALSE
FALSE      #.....Start of displaying 'prior' .....
FALSE      prior=list()
FALSE      prior$modelPriorType=1
FALSE      prior$seasonMinOrder=1
FALSE      prior$seasonMaxOrder=5
FALSE      prior$seasonMinKnotNum=0
FALSE      prior$seasonMaxKnotNum=10
FALSE      prior$seasonMinSepDist=6
FALSE      prior$trendMinOrder=0
FALSE      prior$trendMaxOrder=1
FALSE      prior$trendMinKnotNum=0
FALSE      prior$trendMaxKnotNum=10
FALSE      prior$trendMinSepDist=6
FALSE      prior$K_MAX=132

```

```

FALSE    prior$precValue=1.500000
FALSE    prior$precPriorType='uniform'
FALSE #.....End of displaying pripr .....
FALSE
FALSE #.....Start of displaying 'mcmc' .....
FALSE    mcmc=list()
FALSE    mcmc$seed=0
FALSE    mcmc$samples=8000
FALSE    mcmc$thinningFactor=5
FALSE    mcmc$burnin=200
FALSE    mcmc$chainNumber=3
FALSE    mcmc$maxMoveStepSize=12
FALSE    mcmc$trendResamplingOrderProb=0.1000
FALSE    mcmc$seasonResamplingOrderProb=0.1700
FALSE    mcmc$credIntervalAlphaLevel=0.950
FALSE #.....End of displaying mcmc .....
FALSE
FALSE #.....Start of displaying 'extra' .....
FALSE    extra=list()
FALSE    extra$dumpInputData=TRUE
FALSE    extra$whichOutputDimIsTime=1
FALSE    extra$computeCredible=TRUE
FALSE    extra$fastCIComputation=TRUE
FALSE    extra$computeSeasonOrder=TRUE
FALSE    extra$computeTrendOrder=TRUE
FALSE    extra$computeSeasonChngpt=TRUE
FALSE    extra$computeTrendChngpt=TRUE
FALSE    extra$computeSeasonAmp=TRUE
FALSE    extra$computeTrendSlope=TRUE
FALSE    extra$tallyPosNegSeasonJump=FALSE
FALSE    extra$tallyPosNegTrendJump=TRUE
FALSE    extra$tallyIncDecTrendJump=TRUE
FALSE    extra$printProgressBar=TRUE
FALSE    extra$printOptions=TRUE
FALSE    extra$consoleWidth=80
FALSE    extra$numThreadsPerCPU=2
FALSE    extra$numParThreads=0
FALSE #.....End of displaying extra .....
FALSE
FALSE |Progress:  0.0% done[>*****]/Progress:  4.2%
FALSE
FALSE #-----#
FALSE #      OPTIONS used in the MCMC inference      #
FALSE #-----#
FALSE #set extra$printOptions=0 to suppress the printing #
FALSE #-----#
FALSE
FALSE #.....Start of displaying 'MetaData' .....
FALSE    metadata=list()
FALSE    metadata$isRegularOrdered=FALSE
FALSE    metadata$season='harmonic'
FALSE    metadata$period=1.000000
FALSE    metadata$startTime=1984.41675
FALSE    metadata$deltaTime=0.08333

```

```

FALSE      metadata$whichDimIsTime=1
FALSE      metadata$missingValue=NaN
FALSE      metadata$maxMissingRate=0.7500
FALSE      metadata$deseasonalize=FALSE
FALSE      metadata$detrend=FALSE
FALSE #.....End of displaying MetaData .....
FALSE
FALSE #.....Start of displaying 'prior' .....
FALSE      prior=list()
FALSE      prior$modelPriorType=1
FALSE      prior$seasonMinOrder=1
FALSE      prior$seasonMaxOrder=5
FALSE      prior$seasonMinKnotNum=0
FALSE      prior$seasonMaxKnotNum=10
FALSE      prior$seasonMinSepDist=6
FALSE      prior$trendMinOrder=0
FALSE      prior$trendMaxOrder=1
FALSE      prior$trendMinKnotNum=0
FALSE      prior$trendMaxKnotNum=10
FALSE      prior$trendMinSepDist=6
FALSE      prior$K_MAX=132
FALSE      prior$precValue=1.500000
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FALSE #.....End of displaying pripr .....
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FALSE      mcmc=list()
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FALSE      mcmc$samples=8000
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FALSE #.....End of displaying mcmc .....
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FALSE      extra=list()
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FALSE      extra$computeCredible=TRUE
FALSE      extra$fastCIComputation=TRUE
FALSE      extra$computeSeasonOrder=TRUE
FALSE      extra$computeTrendOrder=TRUE
FALSE      extra$computeSeasonChngpt=TRUE
FALSE      extra$computeTrendChngpt=TRUE
FALSE      extra$computeSeasonAmp=TRUE
FALSE      extra$computeTrendSlope=TRUE
FALSE      extra$tallyPosNegSeasonJump=FALSE
FALSE      extra$tallyPosNegTrendJump=TRUE
FALSE      extra$tallyIncDecTrendJump=TRUE
FALSE      extra$printProgressBar=TRUE

```

```

FALSE      extra$printOptions=TRUE
FALSE      extra$consoleWidth=80
FALSE      extra$numThreadsPerCPU=2
FALSE      extra$numParThreads=0
FALSE #.....End of displaying extra .....
FALSE
FALSE /Progress:  0.0% done[>*****]-Progress:  4.2%
FALSE
FALSE #-----#
FALSE #      OPTIONS used in the MCMC inference      #
FALSE #-----#
FALSE #set extra$printOptions=0 to suppress the printing #
FALSE #-----#
FALSE
FALSE #.....Start of displaying 'MetaData' .....
FALSE      metadata=list()
FALSE      metadata$isRegularOrdered=FALSE
FALSE      metadata$season='harmonic'
FALSE      metadata$period=1.000000
FALSE      metadata$startTime=1984.50000
FALSE      metadata$deltaTime=0.08333
FALSE      metadata$whichDimIsTime=1
FALSE      metadata$missingValue=NaN
FALSE      metadata$maxMissingRate=0.7500
FALSE      metadata$deseasonalize=FALSE
FALSE      metadata$detrend=FALSE
FALSE #.....End of displaying MetaData .....
FALSE
FALSE #.....Start of displaying 'prior' .....
FALSE      prior=list()
FALSE      prior$modelPriorType=1
FALSE      prior$seasonMinOrder=1
FALSE      prior$seasonMaxOrder=5
FALSE      prior$seasonMinKnotNum=0
FALSE      prior$seasonMaxKnotNum=10
FALSE      prior$seasonMinSepDist=6
FALSE      prior$trendMinOrder=0
FALSE      prior$trendMaxOrder=1
FALSE      prior$trendMinKnotNum=0
FALSE      prior$trendMaxKnotNum=10
FALSE      prior$trendMinSepDist=6
FALSE      prior$K_MAX=132
FALSE      prior$precValue=1.500000
FALSE      prior$precPriorType='uniform'
FALSE #.....End of displaying pripr .....
FALSE
FALSE #.....Start of displaying 'mcmc' .....
FALSE      mcmc=list()
FALSE      mcmc$seed=0
FALSE      mcmc$samples=8000
FALSE      mcmc$thinningFactor=5
FALSE      mcmc$burnin=200
FALSE      mcmc$chainNumber=3
FALSE      mcmc$maxMoveStepSize=12

```



```

FALSE      mcmc$trendResamplingOrderProb=0.1000
FALSE      mcmc$seasonResamplingOrderProb=0.1700
FALSE      mcmc$credIntervalAlphaLevel=0.950
FALSE #.....End of displaying mcmc .....
FALSE
FALSE #.....Start of displaying 'extra' .....
FALSE      extra=list()
FALSE      extra$dumpInputData=TRUE
FALSE      extra$whichOutputDimIsTime=1
FALSE      extra$computeCredible=TRUE
FALSE      extra$fastCIComputation=TRUE
FALSE      extra$computeSeasonOrder=TRUE
FALSE      extra$computeTrendOrder=TRUE
FALSE      extra$computeSeasonChngpt=TRUE
FALSE      extra$computeTrendChngpt=TRUE
FALSE      extra$computeSeasonAmp=TRUE
FALSE      extra$computeTrendSlope=TRUE
FALSE      extra$tallyPosNegSeasonJump=FALSE
FALSE      extra$tallyPosNegTrendJump=TRUE
FALSE      extra$tallyIncDecTrendJump=TRUE
FALSE      extra$printProgressBar=TRUE
FALSE      extra$printOptions=TRUE
FALSE      extra$consoleWidth=80
FALSE      extra$numThreadsPerCPU=2
FALSE      extra$numParThreads=0
FALSE #.....End of displaying extra .....
FALSE
FALSE -Progress:  0.0% done[>*****]\Progress:  4.2%
FALSE
FALSE #-----#
FALSE #      OPTIONS used in the MCMC inference      #
FALSE #-----#
FALSE #set extra$printOptions=0 to suppress the printing #
FALSE #-----#
FALSE
FALSE #.....Start of displaying 'MetaData' .....
FALSE      metadata=list()
FALSE      metadata$isRegularOrdered=FALSE
FALSE      metadata$season='harmonic'
FALSE      metadata$period=1.000000
FALSE      metadata$startTime=1984.41675
FALSE      metadata$deltaTime=0.08333
FALSE      metadata$whichDimIsTime=1
FALSE      metadata$missingValue=NaN
FALSE      metadata$maxMissingRate=0.7500
FALSE      metadata$deseasonalize=FALSE
FALSE      metadata$detrend=FALSE
FALSE #.....End of displaying MetaData .....
FALSE
FALSE #.....Start of displaying 'prior' .....
FALSE      prior=list()
FALSE      prior$modelPriorType=1
FALSE      prior$seasonMinOrder=1
FALSE      prior$seasonMaxOrder=5

```

```

FALSE prior$seasonMinKnotNum=0
FALSE prior$seasonMaxKnotNum=10
FALSE prior$seasonMinSepDist=6
FALSE prior$trendMinOrder=0
FALSE prior$trendMaxOrder=1
FALSE prior$trendMinKnotNum=0
FALSE prior$trendMaxKnotNum=10
FALSE prior$trendMinSepDist=6
FALSE prior$K_MAX=132
FALSE prior$precValue=1.500000
FALSE prior$precPriorType='uniform'
FALSE #.....End of displaying pripr .....
FALSE
FALSE #.....Start of displaying 'mcmc' .....
FALSE mcmc=list()
FALSE mcmc$seed=0
FALSE mcmc$samples=8000
FALSE mcmc$thinningFactor=5
FALSE mcmc$burnin=200
FALSE mcmc$chainNumber=3
FALSE mcmc$maxMoveStepSize=12
FALSE mcmc$trendResamplingOrderProb=0.1000
FALSE mcmc$seasonResamplingOrderProb=0.1700
FALSE mcmc$credIntervalAlphaLevel=0.950
FALSE #.....End of displaying mcmc .....
FALSE
FALSE #.....Start of displaying 'extra' .....
FALSE extra=list()
FALSE extra$dumpInputData=TRUE
FALSE extra$whichOutputDimIsTime=1
FALSE extra$computeCredible=TRUE
FALSE extra$fastCIComputation=TRUE
FALSE extra$computeSeasonOrder=TRUE
FALSE extra$computeTrendOrder=TRUE
FALSE extra$computeSeasonChngpt=TRUE
FALSE extra$computeTrendChngpt=TRUE
FALSE extra$computeSeasonAmp=TRUE
FALSE extra$computeTrendSlope=TRUE
FALSE extra$tallyPosNegSeasonJump=FALSE
FALSE extra$tallyPosNegTrendJump=TRUE
FALSE extra$tallyIncDecTrendJump=TRUE
FALSE extra$printProgressBar=TRUE
FALSE extra$printOptions=TRUE
FALSE extra$consoleWidth=80
FALSE extra$numThreadsPerCPU=2
FALSE extra$numParThreads=0
FALSE #.....End of displaying extra .....
FALSE
FALSE \Progress: 0.0% done[>*****]Progress: 4.2%
FALSE
FALSE #-----#
FALSE # OPTIONS used in the MCMC inference #
FALSE #-----#
FALSE #set extra$printOptions=0 to suppress the printing #

```

```

FALSE #-----#
FALSE
FALSE #.....Start of displaying 'MetaData' .....
FALSE     metadata=list()
FALSE     metadata$isRegularOrdered=FALSE
FALSE     metadata$season='harmonic'
FALSE     metadata$period=1.000000
FALSE     metadata$startTime=1984.16675
FALSE     metadata$deltaTime=0.08333
FALSE     metadata$whichDimIsTime=1
FALSE     metadata$missingValue=NaN
FALSE     metadata$maxMissingRate=0.7500
FALSE     metadata$deseasonalize=FALSE
FALSE     metadata$detrend=FALSE
FALSE #.....End of displaying MetaData .....
FALSE
FALSE #.....Start of displaying 'prior' .....
FALSE     prior=list()
FALSE     prior$modelPriorType=1
FALSE     prior$seasonMinOrder=1
FALSE     prior$seasonMaxOrder=5
FALSE     prior$seasonMinKnotNum=0
FALSE     prior$seasonMaxKnotNum=10
FALSE     prior$seasonMinSepDist=6
FALSE     prior$trendMinOrder=0
FALSE     prior$trendMaxOrder=1
FALSE     prior$trendMinKnotNum=0
FALSE     prior$trendMaxKnotNum=10
FALSE     prior$trendMinSepDist=6
FALSE     prior$K_MAX=132
FALSE     prior$precValue=1.500000
FALSE     prior$precPriorType='uniform'
FALSE #.....End of displaying pripr .....
FALSE
FALSE #.....Start of displaying 'mcmc' .....
FALSE     mcmc=list()
FALSE     mcmc$seed=0
FALSE     mcmc$samples=8000
FALSE     mcmc$thinningFactor=5
FALSE     mcmc$burnin=200
FALSE     mcmc$chainNumber=3
FALSE     mcmc$maxMoveStepSize=12
FALSE     mcmc$trendResamplingOrderProb=0.1000
FALSE     mcmc$seasonResamplingOrderProb=0.1700
FALSE     mcmc$credIntervalAlphaLevel=0.950
FALSE #.....End of displaying mcmc .....
FALSE
FALSE #.....Start of displaying 'extra' .....
FALSE     extra=list()
FALSE     extra$dumpInputData=TRUE
FALSE     extra$whichOutputDimIsTime=1
FALSE     extra$computeCredible=TRUE
FALSE     extra$fastCIComputation=TRUE
FALSE     extra$computeSeasonOrder=TRUE

```

```

FALSE      extra$computeTrendOrder=TRUE
FALSE      extra$computeSeasonChngpt=TRUE
FALSE      extra$computeTrendChngpt=TRUE
FALSE      extra$computeSeasonAmp=TRUE
FALSE      extra$computeTrendSlope=TRUE
FALSE      extra$tallyPosNegSeasonJump=FALSE
FALSE      extra$tallyPosNegTrendJump=TRUE
FALSE      extra$tallyIncDecTrendJump=TRUE
FALSE      extra$printProgressBar=TRUE
FALSE      extra$printOptions=TRUE
FALSE      extra$consoleWidth=80
FALSE      extra$numThreadsPerCPU=2
FALSE      extra$numParThreads=0
FALSE #.....End of displaying extra .....
FALSE
FALSE |Progress:  0.0% done[>*****]/Progress:  4.2%
FALSE
FALSE #-----#
FALSE #      OPTIONS used in the MCMC inference      #
FALSE #-----#
FALSE #set extra$printOptions=0 to suppress the printing #
FALSE #-----#
FALSE
FALSE #.....Start of displaying 'MetaData' .....
FALSE      metadata=list()
FALSE      metadata$isRegularOrdered=FALSE
FALSE      metadata$season='harmonic'
FALSE      metadata$period=1.000000
FALSE      metadata$startTime=1984.16675
FALSE      metadata$deltaTime=0.08333
FALSE      metadata$whichDimIsTime=1
FALSE      metadata$missingValue=NaN
FALSE      metadata$maxMissingRate=0.7500
FALSE      metadata$deseasonalize=FALSE
FALSE      metadata$detrend=FALSE
FALSE #.....End of displaying MetaData .....
FALSE
FALSE #.....Start of displaying 'prior' .....
FALSE      prior=list()
FALSE      prior$modelPriorType=1
FALSE      prior$seasonMinOrder=1
FALSE      prior$seasonMaxOrder=5
FALSE      prior$seasonMinKnotNum=0
FALSE      prior$seasonMaxKnotNum=10
FALSE      prior$seasonMinSepDist=6
FALSE      prior$trendMinOrder=0
FALSE      prior$trendMaxOrder=1
FALSE      prior$trendMinKnotNum=0
FALSE      prior$trendMaxKnotNum=10
FALSE      prior$trendMinSepDist=6
FALSE      prior$K_MAX=132
FALSE      prior$precValue=1.500000
FALSE      prior$precPriorType='uniform'
FALSE #.....End of displaying pripr .....

```

```

FALSE
FALSE #.....Start of displaying 'mcmc' .....
FALSE   mcmc=list()
FALSE   mcmc$seed=0
FALSE   mcmc$samples=8000
FALSE   mcmc$thinningFactor=5
FALSE   mcmc$burnin=200
FALSE   mcmc$chainNumber=3
FALSE   mcmc$maxMoveStepSize=12
FALSE   mcmc$trendResamplingOrderProb=0.1000
FALSE   mcmc$seasonResamplingOrderProb=0.1700
FALSE   mcmc$credIntervalAlphaLevel=0.950
FALSE #.....End of displaying mcmc .....
FALSE
FALSE #.....Start of displaying 'extra' .....
FALSE   extra=list()
FALSE   extra$dumpInputData=TRUE
FALSE   extra$whichOutputDimIsTime=1
FALSE   extra$computeCredible=TRUE
FALSE   extra$fastCIComputation=TRUE
FALSE   extra$computeSeasonOrder=TRUE
FALSE   extra$computeTrendOrder=TRUE
FALSE   extra$computeSeasonChngpt=TRUE
FALSE   extra$computeTrendChngpt=TRUE
FALSE   extra$computeSeasonAmp=TRUE
FALSE   extra$computeTrendSlope=TRUE
FALSE   extra$tallyPosNegSeasonJump=FALSE
FALSE   extra$tallyPosNegTrendJump=TRUE
FALSE   extra$tallyIncDecTrendJump=TRUE
FALSE   extra$printProgressBar=TRUE
FALSE   extra$printOptions=TRUE
FALSE   extra$consoleWidth=80
FALSE   extra$numThreadsPerCPU=2
FALSE   extra$numParThreads=0
FALSE #.....End of displaying extra .....
FALSE
FALSE /Progress: 0.0% done[>*****]-Progress: 4.2%
FALSE
FALSE #-----#
FALSE #      OPTIONS used in the MCMC inference      #
FALSE #-----#
FALSE #set extra$printOptions=0 to suppress the printing #
FALSE #-----#
FALSE
FALSE #.....Start of displaying 'MetaData' .....
FALSE   metadata=list()
FALSE   metadata$isRegularOrdered=FALSE
FALSE   metadata$season='harmonic'
FALSE   metadata$period=1.000000
FALSE   metadata$startTime=1984.16675
FALSE   metadata$deltaTime=0.08333
FALSE   metadata$whichDimIsTime=1
FALSE   metadata$missingValue=NaN
FALSE   metadata$maxMissingRate=0.7500

```

```

FALSE      metadata$deseasonalize=FALSE
FALSE      metadata$detrend=FALSE
FALSE #.....End of displaying MetaData .....
FALSE
FALSE #.....Start of displaying 'prior' .....
FALSE      prior=list()
FALSE      prior$modelPriorType=1
FALSE      prior$seasonMinOrder=1
FALSE      prior$seasonMaxOrder=5
FALSE      prior$seasonMinKnotNum=0
FALSE      prior$seasonMaxKnotNum=10
FALSE      prior$seasonMinSepDist=6
FALSE      prior$trendMinOrder=0
FALSE      prior$trendMaxOrder=1
FALSE      prior$trendMinKnotNum=0
FALSE      prior$trendMaxKnotNum=10
FALSE      prior$trendMinSepDist=6
FALSE      prior$K_MAX=132
FALSE      prior$precValue=1.500000
FALSE      prior$precPriorType='uniform'
FALSE #.....End of displaying pripr .....
FALSE
FALSE #.....Start of displaying 'mcmc' .....
FALSE      mcmc=list()
FALSE      mcmc$seed=0
FALSE      mcmc$samples=8000
FALSE      mcmc$thinningFactor=5
FALSE      mcmc$burnin=200
FALSE      mcmc$chainNumber=3
FALSE      mcmc$maxMoveStepSize=12
FALSE      mcmc$trendResamplingOrderProb=0.1000
FALSE      mcmc$seasonResamplingOrderProb=0.1700
FALSE      mcmc$credIntervalAlphaLevel=0.950
FALSE #.....End of displaying mcmc .....
FALSE
FALSE #.....Start of displaying 'extra' .....
FALSE      extra=list()
FALSE      extra$dumpInputData=TRUE
FALSE      extra$whichOutputDimIsTime=1
FALSE      extra$computeCredible=TRUE
FALSE      extra$fastCIComputation=TRUE
FALSE      extra$computeSeasonOrder=TRUE
FALSE      extra$computeTrendOrder=TRUE
FALSE      extra$computeSeasonChngpt=TRUE
FALSE      extra$computeTrendChngpt=TRUE
FALSE      extra$computeSeasonAmp=TRUE
FALSE      extra$computeTrendSlope=TRUE
FALSE      extra$tallyPosNegSeasonJump=FALSE
FALSE      extra$tallyPosNegTrendJump=TRUE
FALSE      extra$tallyIncDecTrendJump=TRUE
FALSE      extra$printProgressBar=TRUE
FALSE      extra$printOptions=TRUE
FALSE      extra$consoleWidth=80
FALSE      extra$numThreadsPerCPU=2

```

```

FALSE      extra$numParThreads=0
FALSE #.....End of displaying extra .....
FALSE
FALSE -Progress: 0.0% done[>*****\Progress: 4.2%
FALSE
FALSE #-----#
FALSE #      OPTIONS used in the MCMC inference      #
FALSE #-----#
FALSE #set extra$printOptions=0 to suppress the printing #
FALSE #-----#
FALSE
FALSE #.....Start of displaying 'MetaData' .....
FALSE      metadata=list()
FALSE      metadata$isRegularOrdered=FALSE
FALSE      metadata$season='harmonic'
FALSE      metadata$period=1.000000
FALSE      metadata$startTime=1984.25000
FALSE      metadata$deltaTime=0.08333
FALSE      metadata$whichDimIsTime=1
FALSE      metadata$missingValue=NaN
FALSE      metadata$maxMissingRate=0.7500
FALSE      metadata$deseasonalize=FALSE
FALSE      metadata$detrend=FALSE
FALSE #.....End of displaying MetaData .....
FALSE
FALSE #.....Start of displaying 'prior' .....
FALSE      prior=list()
FALSE      prior$modelPriorType=1
FALSE      prior$seasonMinOrder=1
FALSE      prior$seasonMaxOrder=5
FALSE      prior$seasonMinKnotNum=0
FALSE      prior$seasonMaxKnotNum=10
FALSE      prior$seasonMinSepDist=6
FALSE      prior$trendMinOrder=0
FALSE      prior$trendMaxOrder=1
FALSE      prior$trendMinKnotNum=0
FALSE      prior$trendMaxKnotNum=10
FALSE      prior$trendMinSepDist=6
FALSE      prior$K_MAX=132
FALSE      prior$precValue=1.500000
FALSE      prior$precPriorType='uniform'
FALSE #.....End of displaying pripr .....
FALSE
FALSE #.....Start of displaying 'mcmc' .....
FALSE      mcmc=list()
FALSE      mcmc$seed=0
FALSE      mcmc$samples=8000
FALSE      mcmc$thinningFactor=5
FALSE      mcmc$burnin=200
FALSE      mcmc$chainNumber=3
FALSE      mcmc$maxMoveStepSize=12
FALSE      mcmc$trendResamplingOrderProb=0.1000
FALSE      mcmc$seasonResamplingOrderProb=0.1700
FALSE      mcmc$credIntervalAlphaLevel=0.950

```

```

FALSE #.....End of displaying mcmc .....
FALSE
FALSE #.....Start of displaying 'extra' .....
FALSE     extra=list()
FALSE     extra$dumpInputData=TRUE
FALSE     extra$whichOutputDimIsTime=1
FALSE     extra$computeCredible=TRUE
FALSE     extra$fastCIComputation=TRUE
FALSE     extra$computeSeasonOrder=TRUE
FALSE     extra$computeTrendOrder=TRUE
FALSE     extra$computeSeasonChngpt=TRUE
FALSE     extra$computeTrendChngpt=TRUE
FALSE     extra$computeSeasonAmp=TRUE
FALSE     extra$computeTrendSlope=TRUE
FALSE     extra$tallyPosNegSeasonJump=FALSE
FALSE     extra$tallyPosNegTrendJump=TRUE
FALSE     extra$tallyIncDecTrendJump=TRUE
FALSE     extra$printProgressBar=TRUE
FALSE     extra$printOptions=TRUE
FALSE     extra$consoleWidth=80
FALSE     extra$numThreadsPerCPU=2
FALSE     extra$numParThreads=0
FALSE #.....End of displaying extra .....
FALSE
FALSE \Progress: 0.0% done[>*****] |Progress: 4.2%
FALSE
FALSE #-----#
FALSE #     OPTIONS used in the MCMC inference     #
FALSE #-----#
FALSE #set extra$printOptions=0 to suppress the printing #
FALSE #-----#
FALSE
FALSE #.....Start of displaying 'MetaData' .....
FALSE     metadata=list()
FALSE     metadata$isRegularOrdered=FALSE
FALSE     metadata$season='harmonic'
FALSE     metadata$period=1.000000
FALSE     metadata$startTime=1984.25000
FALSE     metadata$deltaTime=0.08333
FALSE     metadata$whichDimIsTime=1
FALSE     metadata$missingValue=NaN
FALSE     metadata$maxMissingRate=0.7500
FALSE     metadata$deseasonalize=FALSE
FALSE     metadata$detrend=FALSE
FALSE #.....End of displaying MetaData .....
FALSE
FALSE #.....Start of displaying 'prior' .....
FALSE     prior=list()
FALSE     prior$modelPriorType=1
FALSE     prior$seasonMinOrder=1
FALSE     prior$seasonMaxOrder=5
FALSE     prior$seasonMinKnotNum=0
FALSE     prior$seasonMaxKnotNum=10
FALSE     prior$seasonMinSepDist=6

```



```

FALSE prior$trendMinOrder=0
FALSE prior$trendMaxOrder=1
FALSE prior$trendMinKnotNum=0
FALSE prior$trendMaxKnotNum=10
FALSE prior$trendMinSepDist=6
FALSE prior$K_MAX=132
FALSE prior$precValue=1.500000
FALSE prior$precPriorType='uniform'
FALSE #.....End of displaying pripr .....
FALSE
FALSE #.....Start of displaying 'mcmc' .....
FALSE mcmc=list()
FALSE mcmc$seed=0
FALSE mcmc$samples=8000
FALSE mcmc$thinningFactor=5
FALSE mcmc$burnin=200
FALSE mcmc$chainNumber=3
FALSE mcmc$maxMoveStepSize=12
FALSE mcmc$trendResamplingOrderProb=0.1000
FALSE mcmc$seasonResamplingOrderProb=0.1700
FALSE mcmc$credIntervalAlphaLevel=0.950
FALSE #.....End of displaying mcmc .....
FALSE
FALSE #.....Start of displaying 'extra' .....
FALSE extra=list()
FALSE extra$dumpInputData=TRUE
FALSE extra$whichOutputDimIsTime=1
FALSE extra$computeCredible=TRUE
FALSE extra$fastCIComputation=TRUE
FALSE extra$computeSeasonOrder=TRUE
FALSE extra$computeTrendOrder=TRUE
FALSE extra$computeSeasonChngpt=TRUE
FALSE extra$computeTrendChngpt=TRUE
FALSE extra$computeSeasonAmp=TRUE
FALSE extra$computeTrendSlope=TRUE
FALSE extra$tallyPosNegSeasonJump=FALSE
FALSE extra$tallyPosNegTrendJump=TRUE
FALSE extra$tallyIncDecTrendJump=TRUE
FALSE extra$printProgressBar=TRUE
FALSE extra$printOptions=TRUE
FALSE extra$consoleWidth=80
FALSE extra$numThreadsPerCPU=2
FALSE extra$numParThreads=0
FALSE #.....End of displaying extra .....
FALSE
FALSE |Progress: 0.0% done[>*****]/Progress: 4.2%
FALSE
FALSE #-----#
FALSE # OPTIONS used in the MCMC inference #
FALSE #-----#
FALSE #set extra$printOptions=0 to suppress the printing #
FALSE #-----#
FALSE
FALSE #.....Start of displaying 'MetaData' .....

```

```

FALSE      metadata=list()
FALSE      metadata$isRegularOrdered=FALSE
FALSE      metadata$season='harmonic'
FALSE      metadata$period=1.000000
FALSE      metadata$startTime=1984.25000
FALSE      metadata$deltaTime=0.08333
FALSE      metadata$whichDimIsTime=1
FALSE      metadata$missingValue=NaN
FALSE      metadata$maxMissingRate=0.7500
FALSE      metadata$deseasonalize=FALSE
FALSE      metadata$detrend=FALSE
FALSE #.....End of displaying MetaData .....
FALSE
FALSE #.....Start of displaying 'prior' .....
FALSE      prior=list()
FALSE      prior$modelPriorType=1
FALSE      prior$seasonMinOrder=1
FALSE      prior$seasonMaxOrder=5
FALSE      prior$seasonMinKnotNum=0
FALSE      prior$seasonMaxKnotNum=10
FALSE      prior$seasonMinSepDist=6
FALSE      prior$trendMinOrder=0
FALSE      prior$trendMaxOrder=1
FALSE      prior$trendMinKnotNum=0
FALSE      prior$trendMaxKnotNum=10
FALSE      prior$trendMinSepDist=6
FALSE      prior$K_MAX=132
FALSE      prior$precValue=1.500000
FALSE      prior$precPriorType='uniform'
FALSE #.....End of displaying pripr .....
FALSE
FALSE #.....Start of displaying 'mcmc' .....
FALSE      mcmc=list()
FALSE      mcmc$seed=0
FALSE      mcmc$samples=8000
FALSE      mcmc$thinningFactor=5
FALSE      mcmc$burnin=200
FALSE      mcmc$chainNumber=3
FALSE      mcmc$maxMoveStepSize=12
FALSE      mcmc$trendResamplingOrderProb=0.1000
FALSE      mcmc$seasonResamplingOrderProb=0.1700
FALSE      mcmc$credIntervalAlphaLevel=0.950
FALSE #.....End of displaying mcmc .....
FALSE
FALSE #.....Start of displaying 'extra' .....
FALSE      extra=list()
FALSE      extra$dumpInputData=TRUE
FALSE      extra$whichOutputDimIsTime=1
FALSE      extra$computeCredible=TRUE
FALSE      extra$fastCIComputation=TRUE
FALSE      extra$computeSeasonOrder=TRUE
FALSE      extra$computeTrendOrder=TRUE
FALSE      extra$computeSeasonChngpt=TRUE
FALSE      extra$computeTrendChngpt=TRUE

```

```

FALSE      extra$computeSeasonAmp=TRUE
FALSE      extra$computeTrendSlope=TRUE
FALSE      extra$tallyPosNegSeasonJump=FALSE
FALSE      extra$tallyPosNegTrendJump=TRUE
FALSE      extra$tallyIncDecTrendJump=TRUE
FALSE      extra$printProgressBar=TRUE
FALSE      extra$printOptions=TRUE
FALSE      extra$consoleWidth=80
FALSE      extra$numThreadsPerCPU=2
FALSE      extra$numParThreads=0
FALSE #.....End of displaying extra .....
FALSE
FALSE /Progress: 0.0% done[>*****]-Progress: 4.2%
FALSE
FALSE #-----#
FALSE #      OPTIONS used in the MCMC inference      #
FALSE #-----#
FALSE #set extra$printOptions=0 to suppress the printing #
FALSE #-----#
FALSE
FALSE #.....Start of displaying 'MetaData' .....
FALSE      metadata=list()
FALSE      metadata$isRegularOrdered=FALSE
FALSE      metadata$season='harmonic'
FALSE      metadata$period=1.000000
FALSE      metadata$startTime=1984.25000
FALSE      metadata$deltaTime=0.08333
FALSE      metadata$whichDimIsTime=1
FALSE      metadata$missingValue=NaN
FALSE      metadata$maxMissingRate=0.7500
FALSE      metadata$deseasonalize=FALSE
FALSE      metadata$detrend=FALSE
FALSE #.....End of displaying MetaData .....
FALSE
FALSE #.....Start of displaying 'prior' .....
FALSE      prior=list()
FALSE      prior$modelPriorType=1
FALSE      prior$seasonMinOrder=1
FALSE      prior$seasonMaxOrder=5
FALSE      prior$seasonMinKnotNum=0
FALSE      prior$seasonMaxKnotNum=10
FALSE      prior$seasonMinSepDist=6
FALSE      prior$trendMinOrder=0
FALSE      prior$trendMaxOrder=1
FALSE      prior$trendMinKnotNum=0
FALSE      prior$trendMaxKnotNum=10
FALSE      prior$trendMinSepDist=6
FALSE      prior$K_MAX=132
FALSE      prior$precValue=1.500000
FALSE      prior$precPriorType='uniform'
FALSE #.....End of displaying pripr .....
FALSE
FALSE #.....Start of displaying 'mcmc' .....
FALSE      mcmc=list()

```

```

FALSE      mcmc$seed=0
FALSE      mcmc$samples=8000
FALSE      mcmc$thinningFactor=5
FALSE      mcmc$burnin=200
FALSE      mcmc$chainNumber=3
FALSE      mcmc$maxMoveStepSize=12
FALSE      mcmc$trendResamplingOrderProb=0.1000
FALSE      mcmc$seasonResamplingOrderProb=0.1700
FALSE      mcmc$credIntervalAlphaLevel=0.950
FALSE #.....End of displaying mcmc .....
FALSE
FALSE #.....Start of displaying 'extra' .....
FALSE      extra=list()
FALSE      extra$dumpInputData=TRUE
FALSE      extra$whichOutputDimIsTime=1
FALSE      extra$computeCredible=TRUE
FALSE      extra$fastCIComputation=TRUE
FALSE      extra$computeSeasonOrder=TRUE
FALSE      extra$computeTrendOrder=TRUE
FALSE      extra$computeSeasonChngpt=TRUE
FALSE      extra$computeTrendChngpt=TRUE
FALSE      extra$computeSeasonAmp=TRUE
FALSE      extra$computeTrendSlope=TRUE
FALSE      extra$tallyPosNegSeasonJump=FALSE
FALSE      extra$tallyPosNegTrendJump=TRUE
FALSE      extra$tallyIncDecTrendJump=TRUE
FALSE      extra$printProgressBar=TRUE
FALSE      extra$printOptions=TRUE
FALSE      extra$consoleWidth=80
FALSE      extra$numThreadsPerCPU=2
FALSE      extra$numParThreads=0
FALSE #.....End of displaying extra .....
FALSE
FALSE -Progress:  0.0% done[>*****]\Progress:  4.2%
FALSE
FALSE #-----#
FALSE #      OPTIONS used in the MCMC inference      #
FALSE #-----#
FALSE #set extra$printOptions=0 to suppress the printing #
FALSE #-----#
FALSE
FALSE #.....Start of displaying 'MetaData' .....
FALSE      metadata=list()
FALSE      metadata$isRegularOrdered=FALSE
FALSE      metadata$season='harmonic'
FALSE      metadata$period=1.000000
FALSE      metadata$startTime=1984.25000
FALSE      metadata$deltaTime=0.08333
FALSE      metadata$whichDimIsTime=1
FALSE      metadata$missingValue=NaN
FALSE      metadata$maxMissingRate=0.7500
FALSE      metadata$deseasonalize=FALSE
FALSE      metadata$detrend=FALSE
FALSE #.....End of displaying MetaData .....

```

```

FALSE
FALSE #.....Start of displaying 'prior' .....
FALSE   prior=list()
FALSE   prior$modelPriorType=1
FALSE   prior$seasonMinOrder=1
FALSE   prior$seasonMaxOrder=5
FALSE   prior$seasonMinKnotNum=0
FALSE   prior$seasonMaxKnotNum=10
FALSE   prior$seasonMinSepDist=6
FALSE   prior$trendMinOrder=0
FALSE   prior$trendMaxOrder=1
FALSE   prior$trendMinKnotNum=0
FALSE   prior$trendMaxKnotNum=10
FALSE   prior$trendMinSepDist=6
FALSE   prior$K_MAX=132
FALSE   prior$precValue=1.500000
FALSE   prior$precPriorType='uniform'
FALSE #.....End of displaying pripr .....
FALSE
FALSE #.....Start of displaying 'mcmc' .....
FALSE   mcmc=list()
FALSE   mcmc$seed=0
FALSE   mcmc$samples=8000
FALSE   mcmc$thinningFactor=5
FALSE   mcmc$burnin=200
FALSE   mcmc$chainNumber=3
FALSE   mcmc$maxMoveStepSize=12
FALSE   mcmc$trendResamplingOrderProb=0.1000
FALSE   mcmc$seasonResamplingOrderProb=0.1700
FALSE   mcmc$credIntervalAlphaLevel=0.950
FALSE #.....End of displaying mcmc .....
FALSE
FALSE #.....Start of displaying 'extra' .....
FALSE   extra=list()
FALSE   extra$dumpInputData=TRUE
FALSE   extra$whichOutputDimIsTime=1
FALSE   extra$computeCredible=TRUE
FALSE   extra$fastCIComputation=TRUE
FALSE   extra$computeSeasonOrder=TRUE
FALSE   extra$computeTrendOrder=TRUE
FALSE   extra$computeSeasonChngpt=TRUE
FALSE   extra$computeTrendChngpt=TRUE
FALSE   extra$computeSeasonAmp=TRUE
FALSE   extra$computeTrendSlope=TRUE
FALSE   extra$tallyPosNegSeasonJump=FALSE
FALSE   extra$tallyPosNegTrendJump=TRUE
FALSE   extra$tallyIncDecTrendJump=TRUE
FALSE   extra$printProgressBar=TRUE
FALSE   extra$printOptions=TRUE
FALSE   extra$consoleWidth=80
FALSE   extra$numThreadsPerCPU=2
FALSE   extra$numParThreads=0
FALSE #.....End of displaying extra .....
FALSE

```

```

FALSE \Progress: 0.0% done[>*****]Progress: 4.2%
FALSE
FALSE #-----#
FALSE #      OPTIONS used in the MCMC inference      #
FALSE #-----#
FALSE #set extra$printOptions=0 to suppress the printing #
FALSE #-----#
FALSE
FALSE #.....Start of displaying 'MetaData' .....
FALSE   metadata=list()
FALSE   metadata$isRegularOrdered=FALSE
FALSE   metadata$season='harmonic'
FALSE   metadata$period=1.000000
FALSE   metadata$startTime=1984.16675
FALSE   metadata$deltaTime=0.08333
FALSE   metadata$whichDimIsTime=1
FALSE   metadata$missingValue=NaN
FALSE   metadata$maxMissingRate=0.7500
FALSE   metadata$deseasonalize=FALSE
FALSE   metadata$detrend=FALSE
FALSE #.....End of displaying MetaData .....
FALSE
FALSE #.....Start of displaying 'prior' .....
FALSE   prior=list()
FALSE   prior$modelPriorType=1
FALSE   prior$seasonMinOrder=1
FALSE   prior$seasonMaxOrder=5
FALSE   prior$seasonMinKnotNum=0
FALSE   prior$seasonMaxKnotNum=10
FALSE   prior$seasonMinSepDist=6
FALSE   prior$trendMinOrder=0
FALSE   prior$trendMaxOrder=1
FALSE   prior$trendMinKnotNum=0
FALSE   prior$trendMaxKnotNum=10
FALSE   prior$trendMinSepDist=6
FALSE   prior$K_MAX=132
FALSE   prior$precValue=1.500000
FALSE   prior$precPriorType='uniform'
FALSE #.....End of displaying pripr .....
FALSE
FALSE #.....Start of displaying 'mcmc' .....
FALSE   mcmc=list()
FALSE   mcmc$seed=0
FALSE   mcmc$samples=8000
FALSE   mcmc$thinningFactor=5
FALSE   mcmc$burnin=200
FALSE   mcmc$chainNumber=3
FALSE   mcmc$maxMoveStepSize=12
FALSE   mcmc$trendResamplingOrderProb=0.1000
FALSE   mcmc$seasonResamplingOrderProb=0.1700
FALSE   mcmc$credIntervalAlphaLevel=0.950
FALSE #.....End of displaying mcmc .....
FALSE
FALSE #.....Start of displaying 'extra' .....

```

```

FALSE      extra=list()
FALSE      extra$dumpInputData=TRUE
FALSE      extra$whichOutputDimIsTime=1
FALSE      extra$computeCredible=TRUE
FALSE      extra$fastCIComputation=TRUE
FALSE      extra$computeSeasonOrder=TRUE
FALSE      extra$computeTrendOrder=TRUE
FALSE      extra$computeSeasonChngpt=TRUE
FALSE      extra$computeTrendChngpt=TRUE
FALSE      extra$computeSeasonAmp=TRUE
FALSE      extra$computeTrendSlope=TRUE
FALSE      extra$tallyPosNegSeasonJump=FALSE
FALSE      extra$tallyPosNegTrendJump=TRUE
FALSE      extra$tallyIncDecTrendJump=TRUE
FALSE      extra$printProgressBar=TRUE
FALSE      extra$printOptions=TRUE
FALSE      extra$consoleWidth=80
FALSE      extra$numThreadsPerCPU=2
FALSE      extra$numParThreads=0
FALSE      #.....End of displaying extra .....
FALSE
FALSE      |Progress:  0.0% done[>*****]/Progress:  4.2%
FALSE
FALSE      #-----#
FALSE      #      OPTIONS used in the MCMC inference      #
FALSE      #-----#
FALSE      #set extra$printOptions=0 to suppress the printing #
FALSE      #-----#
FALSE
FALSE      #.....Start of displaying 'MetaData' .....
FALSE      metadata=list()
FALSE      metadata$isRegularOrdered=FALSE
FALSE      metadata$season='harmonic'
FALSE      metadata$period=1.000000
FALSE      metadata$startTime=1984.33337
FALSE      metadata$deltaTime=0.08333
FALSE      metadata$whichDimIsTime=1
FALSE      metadata$missingValue=NaN
FALSE      metadata$maxMissingRate=0.7500
FALSE      metadata$deseasonalize=FALSE
FALSE      metadata$detrend=FALSE
FALSE      #.....End of displaying MetaData .....
FALSE
FALSE      #.....Start of displaying 'prior' .....
FALSE      prior=list()
FALSE      prior$modelPriorType=1
FALSE      prior$seasonMinOrder=1
FALSE      prior$seasonMaxOrder=5
FALSE      prior$seasonMinKnotNum=0
FALSE      prior$seasonMaxKnotNum=10
FALSE      prior$seasonMinSepDist=6
FALSE      prior$trendMinOrder=0
FALSE      prior$trendMaxOrder=1
FALSE      prior$trendMinKnotNum=0

```

```

FALSE    prior$trendMaxKnotNum=10
FALSE    prior$trendMinSepDist=6
FALSE    prior$K_MAX=132
FALSE    prior$precValue=1.500000
FALSE    prior$precPriorType='uniform'
FALSE #.....End of displaying pripr .....
FALSE
FALSE #.....Start of displaying 'mcmc' .....
FALSE    mcmc=list()
FALSE    mcmc$seed=0
FALSE    mcmc$samples=8000
FALSE    mcmc$thinningFactor=5
FALSE    mcmc$burnin=200
FALSE    mcmc$chainNumber=3
FALSE    mcmc$maxMoveStepSize=12
FALSE    mcmc$trendResamplingOrderProb=0.1000
FALSE    mcmc$seasonResamplingOrderProb=0.1700
FALSE    mcmc$credIntervalAlphaLevel=0.950
FALSE #.....End of displaying mcmc .....
FALSE
FALSE #.....Start of displaying 'extra' .....
FALSE    extra=list()
FALSE    extra$dumpInputData=TRUE
FALSE    extra$whichOutputDimIsTime=1
FALSE    extra$computeCredible=TRUE
FALSE    extra$fastCIComputation=TRUE
FALSE    extra$computeSeasonOrder=TRUE
FALSE    extra$computeTrendOrder=TRUE
FALSE    extra$computeSeasonChngpt=TRUE
FALSE    extra$computeTrendChngpt=TRUE
FALSE    extra$computeSeasonAmp=TRUE
FALSE    extra$computeTrendSlope=TRUE
FALSE    extra$tallyPosNegSeasonJump=FALSE
FALSE    extra$tallyPosNegTrendJump=TRUE
FALSE    extra$tallyIncDecTrendJump=TRUE
FALSE    extra$printProgressBar=TRUE
FALSE    extra$printOptions=TRUE
FALSE    extra$consoleWidth=80
FALSE    extra$numThreadsPerCPU=2
FALSE    extra$numParThreads=0
FALSE #.....End of displaying extra .....
FALSE
FALSE /Progress:  0.0% done[>*****]-Progress:  4.2%
FALSE
FALSE #-----#
FALSE #      OPTIONS used in the MCMC inference      #
FALSE #-----#
FALSE #set extra$printOptions=0 to suppress the printing #
FALSE #-----#
FALSE
FALSE #.....Start of displaying 'MetaData' .....
FALSE    metadata=list()
FALSE    metadata$isRegularOrdered=FALSE
FALSE    metadata$season='harmonic'

```



```

FALSE      metadata$period=1.000000
FALSE      metadata$startTime=1984.33337
FALSE      metadata$deltaTime=0.08333
FALSE      metadata$whichDimIsTime=1
FALSE      metadata$missingValue=NaN
FALSE      metadata$maxMissingRate=0.7500
FALSE      metadata$deseasonalize=FALSE
FALSE      metadata$detrend=FALSE
FALSE #.....End of displaying MetaData .....
FALSE
FALSE #.....Start of displaying 'prior' .....
FALSE      prior=list()
FALSE      prior$modelPriorType=1
FALSE      prior$seasonMinOrder=1
FALSE      prior$seasonMaxOrder=5
FALSE      prior$seasonMinKnotNum=0
FALSE      prior$seasonMaxKnotNum=10
FALSE      prior$seasonMinSepDist=6
FALSE      prior$trendMinOrder=0
FALSE      prior$trendMaxOrder=1
FALSE      prior$trendMinKnotNum=0
FALSE      prior$trendMaxKnotNum=10
FALSE      prior$trendMinSepDist=6
FALSE      prior$K_MAX=132
FALSE      prior$precValue=1.500000
FALSE      prior$precPriorType='uniform'
FALSE #.....End of displaying pripr .....
FALSE
FALSE #.....Start of displaying 'mcmc' .....
FALSE      mcmc=list()
FALSE      mcmc$seed=0
FALSE      mcmc$samples=8000
FALSE      mcmc$thinningFactor=5
FALSE      mcmc$burnin=200
FALSE      mcmc$chainNumber=3
FALSE      mcmc$maxMoveStepSize=12
FALSE      mcmc$trendResamplingOrderProb=0.1000
FALSE      mcmc$seasonResamplingOrderProb=0.1700
FALSE      mcmc$credIntervalAlphaLevel=0.950
FALSE #.....End of displaying mcmc .....
FALSE
FALSE #.....Start of displaying 'extra' .....
FALSE      extra=list()
FALSE      extra$dumpInputData=TRUE
FALSE      extra$whichOutputDimIsTime=1
FALSE      extra$computeCredible=TRUE
FALSE      extra$fastCIComputation=TRUE
FALSE      extra$computeSeasonOrder=TRUE
FALSE      extra$computeTrendOrder=TRUE
FALSE      extra$computeSeasonChngpt=TRUE
FALSE      extra$computeTrendChngpt=TRUE
FALSE      extra$computeSeasonAmp=TRUE
FALSE      extra$computeTrendSlope=TRUE
FALSE      extra$tallyPosNegSeasonJump=FALSE

```

```

FALSE      extra$tallyPosNegTrendJump=TRUE
FALSE      extra$tallyIncDecTrendJump=TRUE
FALSE      extra$printProgressBar=TRUE
FALSE      extra$printOptions=TRUE
FALSE      extra$consoleWidth=80
FALSE      extra$numThreadsPerCPU=2
FALSE      extra$numParThreads=0
FALSE #.....End of displaying extra .....
FALSE
FALSE -Progress:  0.0% done[>*****]\Progress:  4.2%
FALSE
FALSE #-----#
FALSE #      OPTIONS used in the MCMC inference      #
FALSE #-----#
FALSE #set extra$printOptions=0 to suppress the printing #
FALSE #-----#
FALSE
FALSE #.....Start of displaying 'MetaData' .....
FALSE      metadata=list()
FALSE      metadata$isRegularOrdered=FALSE
FALSE      metadata$season='harmonic'
FALSE      metadata$period=1.000000
FALSE      metadata$startTime=1984.25000
FALSE      metadata$deltaTime=0.08333
FALSE      metadata$whichDimIsTime=1
FALSE      metadata$missingValue=NaN
FALSE      metadata$maxMissingRate=0.7500
FALSE      metadata$deseasonalize=FALSE
FALSE      metadata$detrend=FALSE
FALSE #.....End of displaying MetaData .....
FALSE
FALSE #.....Start of displaying 'prior' .....
FALSE      prior=list()
FALSE      prior$modelPriorType=1
FALSE      prior$seasonMinOrder=1
FALSE      prior$seasonMaxOrder=5
FALSE      prior$seasonMinKnotNum=0
FALSE      prior$seasonMaxKnotNum=10
FALSE      prior$seasonMinSepDist=6
FALSE      prior$trendMinOrder=0
FALSE      prior$trendMaxOrder=1
FALSE      prior$trendMinKnotNum=0
FALSE      prior$trendMaxKnotNum=10
FALSE      prior$trendMinSepDist=6
FALSE      prior$K_MAX=132
FALSE      prior$precValue=1.500000
FALSE      prior$precPriorType='uniform'
FALSE #.....End of displaying pripr .....
FALSE
FALSE #.....Start of displaying 'mcmc' .....
FALSE      mcmc=list()
FALSE      mcmc$seed=0
FALSE      mcmc$samples=8000
FALSE      mcmc$thinningFactor=5

```

```

FALSE      mcmc$burnin=200
FALSE      mcmc$chainNumber=3
FALSE      mcmc$maxMoveStepSize=12
FALSE      mcmc$trendResamplingOrderProb=0.1000
FALSE      mcmc$seasonResamplingOrderProb=0.1700
FALSE      mcmc$credIntervalAlphaLevel=0.950
FALSE #.....End of displaying mcmc .....
FALSE
FALSE #.....Start of displaying 'extra' .....
FALSE      extra=list()
FALSE      extra$dumpInputData=TRUE
FALSE      extra$whichOutputDimIsTime=1
FALSE      extra$computeCredible=TRUE
FALSE      extra$fastCIComputation=TRUE
FALSE      extra$computeSeasonOrder=TRUE
FALSE      extra$computeTrendOrder=TRUE
FALSE      extra$computeSeasonChngpt=TRUE
FALSE      extra$computeTrendChngpt=TRUE
FALSE      extra$computeSeasonAmp=TRUE
FALSE      extra$computeTrendSlope=TRUE
FALSE      extra$tallyPosNegSeasonJump=FALSE
FALSE      extra$tallyPosNegTrendJump=TRUE
FALSE      extra$tallyIncDecTrendJump=TRUE
FALSE      extra$printProgressBar=TRUE
FALSE      extra$printOptions=TRUE
FALSE      extra$consoleWidth=80
FALSE      extra$numThreadsPerCPU=2
FALSE      extra$numParThreads=0
FALSE #.....End of displaying extra .....
FALSE
FALSE \Progress: 0.0% done[>*****]Progress: 4.2%
FALSE
FALSE #-----#
FALSE #      OPTIONS used in the MCMC inference      #
FALSE #-----#
FALSE #set extra$printOptions=0 to suppress the printing #
FALSE #-----#
FALSE
FALSE #.....Start of displaying 'MetaData' .....
FALSE      metadata=list()
FALSE      metadata$isRegularOrdered=FALSE
FALSE      metadata$season='harmonic'
FALSE      metadata$period=1.000000
FALSE      metadata$startTime=1984.25000
FALSE      metadata$deltaTime=0.08333
FALSE      metadata$whichDimIsTime=1
FALSE      metadata$missingValue=NaN
FALSE      metadata$maxMissingRate=0.7500
FALSE      metadata$deseasonalize=FALSE
FALSE      metadata$detrend=FALSE
FALSE #.....End of displaying MetaData .....
FALSE
FALSE #.....Start of displaying 'prior' .....
FALSE      prior=list()

```

```

FALSE    prior$modelPriorType=1
FALSE    prior$seasonMinOrder=1
FALSE    prior$seasonMaxOrder=5
FALSE    prior$seasonMinKnotNum=0
FALSE    prior$seasonMaxKnotNum=10
FALSE    prior$seasonMinSepDist=6
FALSE    prior$trendMinOrder=0
FALSE    prior$trendMaxOrder=1
FALSE    prior$trendMinKnotNum=0
FALSE    prior$trendMaxKnotNum=10
FALSE    prior$trendMinSepDist=6
FALSE    prior$K_MAX=132
FALSE    prior$precValue=1.500000
FALSE    prior$precPriorType='uniform'
FALSE    #.....End of displaying pripr .....
FALSE
FALSE    #.....Start of displaying 'mcmc' .....
FALSE    mcmc=list()
FALSE    mcmc$seed=0
FALSE    mcmc$samples=8000
FALSE    mcmc$thinningFactor=5
FALSE    mcmc$burnin=200
FALSE    mcmc$chainNumber=3
FALSE    mcmc$maxMoveStepSize=12
FALSE    mcmc$trendResamplingOrderProb=0.1000
FALSE    mcmc$seasonResamplingOrderProb=0.1700
FALSE    mcmc$credIntervalAlphaLevel=0.950
FALSE    #.....End of displaying mcmc .....
FALSE
FALSE    #.....Start of displaying 'extra' .....
FALSE    extra=list()
FALSE    extra$dumpInputData=TRUE
FALSE    extra$whichOutputDimIsTime=1
FALSE    extra$computeCredible=TRUE
FALSE    extra$fastCIComputation=TRUE
FALSE    extra$computeSeasonOrder=TRUE
FALSE    extra$computeTrendOrder=TRUE
FALSE    extra$computeSeasonChngpt=TRUE
FALSE    extra$computeTrendChngpt=TRUE
FALSE    extra$computeSeasonAmp=TRUE
FALSE    extra$computeTrendSlope=TRUE
FALSE    extra$tallyPosNegSeasonJump=FALSE
FALSE    extra$tallyPosNegTrendJump=TRUE
FALSE    extra$tallyIncDecTrendJump=TRUE
FALSE    extra$printProgressBar=TRUE
FALSE    extra$printOptions=TRUE
FALSE    extra$consoleWidth=80
FALSE    extra$numThreadsPerCPU=2
FALSE    extra$numParThreads=0
FALSE    #.....End of displaying extra .....
FALSE
FALSE    |Progress:  0.0% done[>*****]/Progress:  4.2%
FALSE
FALSE    #-----#

```

```

FALSE #      OPTIONS used in the MCMC inference      #
FALSE #-----#
FALSE #set extra$printOptions=0 to suppress the printing #
FALSE #-----#
FALSE
FALSE #.....Start of displaying 'MetaData' .....
FALSE   metadata=list()
FALSE   metadata$isRegularOrdered=FALSE
FALSE   metadata$season='harmonic'
FALSE   metadata$period=1.000000
FALSE   metadata$startTime=1984.25000
FALSE   metadata$deltaTime=0.08333
FALSE   metadata$whichDimIsTime=1
FALSE   metadata$missingValue=NaN
FALSE   metadata$maxMissingRate=0.7500
FALSE   metadata$deseasonalize=FALSE
FALSE   metadata$detrend=FALSE
FALSE #.....End of displaying MetaData .....
FALSE
FALSE #.....Start of displaying 'prior' .....
FALSE   prior=list()
FALSE   prior$modelPriorType=1
FALSE   prior$seasonMinOrder=1
FALSE   prior$seasonMaxOrder=5
FALSE   prior$seasonMinKnotNum=0
FALSE   prior$seasonMaxKnotNum=10
FALSE   prior$seasonMinSepDist=6
FALSE   prior$trendMinOrder=0
FALSE   prior$trendMaxOrder=1
FALSE   prior$trendMinKnotNum=0
FALSE   prior$trendMaxKnotNum=10
FALSE   prior$trendMinSepDist=6
FALSE   prior$K_MAX=132
FALSE   prior$precValue=1.500000
FALSE   prior$precPriorType='uniform'
FALSE #.....End of displaying pripr .....
FALSE
FALSE #.....Start of displaying 'mcmc' .....
FALSE   mcmc=list()
FALSE   mcmc$seed=0
FALSE   mcmc$samples=8000
FALSE   mcmc$thinningFactor=5
FALSE   mcmc$burnin=200
FALSE   mcmc$chainNumber=3
FALSE   mcmc$maxMoveStepSize=12
FALSE   mcmc$trendResamplingOrderProb=0.1000
FALSE   mcmc$seasonResamplingOrderProb=0.1700
FALSE   mcmc$credIntervalAlphaLevel=0.950
FALSE #.....End of displaying mcmc .....
FALSE
FALSE #.....Start of displaying 'extra' .....
FALSE   extra=list()
FALSE   extra$dumpInputData=TRUE
FALSE   extra$whichOutputDimIsTime=1

```

```

FALSE      extra$computeCredible=TRUE
FALSE      extra$fastCIComputation=TRUE
FALSE      extra$computeSeasonOrder=TRUE
FALSE      extra$computeTrendOrder=TRUE
FALSE      extra$computeSeasonChngpt=TRUE
FALSE      extra$computeTrendChngpt=TRUE
FALSE      extra$computeSeasonAmp=TRUE
FALSE      extra$computeTrendSlope=TRUE
FALSE      extra$tallyPosNegSeasonJump=FALSE
FALSE      extra$tallyPosNegTrendJump=TRUE
FALSE      extra$tallyIncDecTrendJump=TRUE
FALSE      extra$printProgressBar=TRUE
FALSE      extra$printOptions=TRUE
FALSE      extra$consoleWidth=80
FALSE      extra$numThreadsPerCPU=2
FALSE      extra$numParThreads=0
FALSE #.....End of displaying extra .....
FALSE
FALSE /Progress:  0.0% done[>*****]-Progress:  4.2%
FALSE
FALSE #-----#
FALSE #      OPTIONS used in the MCMC inference      #
FALSE #-----#
FALSE #set extra$printOptions=0 to suppress the printing #
FALSE #-----#
FALSE
FALSE #.....Start of displaying 'MetaData' .....
FALSE      metadata=list()
FALSE      metadata$isRegularOrdered=FALSE
FALSE      metadata$season='harmonic'
FALSE      metadata$period=1.000000
FALSE      metadata$startTime=1984.25000
FALSE      metadata$deltaTime=0.08333
FALSE      metadata$whichDimIsTime=1
FALSE      metadata$missingValue=NaN
FALSE      metadata$maxMissingRate=0.7500
FALSE      metadata$deseasonalize=FALSE
FALSE      metadata$detrend=FALSE
FALSE #.....End of displaying MetaData .....
FALSE
FALSE #.....Start of displaying 'prior' .....
FALSE      prior=list()
FALSE      prior$modelPriorType=1
FALSE      prior$seasonMinOrder=1
FALSE      prior$seasonMaxOrder=5
FALSE      prior$seasonMinKnotNum=0
FALSE      prior$seasonMaxKnotNum=10
FALSE      prior$seasonMinSepDist=6
FALSE      prior$trendMinOrder=0
FALSE      prior$trendMaxOrder=1
FALSE      prior$trendMinKnotNum=0
FALSE      prior$trendMaxKnotNum=10
FALSE      prior$trendMinSepDist=6
FALSE      prior$K_MAX=132

```

```

FALSE    prior$precValue=1.500000
FALSE    prior$precPriorType='uniform'
FALSE #.....End of displaying pripr .....
FALSE
FALSE #.....Start of displaying 'mcmc' .....
FALSE    mcmc=list()
FALSE    mcmc$seed=0
FALSE    mcmc$samples=8000
FALSE    mcmc$thinningFactor=5
FALSE    mcmc$burnin=200
FALSE    mcmc$chainNumber=3
FALSE    mcmc$maxMoveStepSize=12
FALSE    mcmc$trendResamplingOrderProb=0.1000
FALSE    mcmc$seasonResamplingOrderProb=0.1700
FALSE    mcmc$credIntervalAlphaLevel=0.950
FALSE #.....End of displaying mcmc .....
FALSE
FALSE #.....Start of displaying 'extra' .....
FALSE    extra=list()
FALSE    extra$dumpInputData=TRUE
FALSE    extra$whichOutputDimIsTime=1
FALSE    extra$computeCredible=TRUE
FALSE    extra$fastCIComputation=TRUE
FALSE    extra$computeSeasonOrder=TRUE
FALSE    extra$computeTrendOrder=TRUE
FALSE    extra$computeSeasonChngpt=TRUE
FALSE    extra$computeTrendChngpt=TRUE
FALSE    extra$computeSeasonAmp=TRUE
FALSE    extra$computeTrendSlope=TRUE
FALSE    extra$tallyPosNegSeasonJump=FALSE
FALSE    extra$tallyPosNegTrendJump=TRUE
FALSE    extra$tallyIncDecTrendJump=TRUE
FALSE    extra$printProgressBar=TRUE
FALSE    extra$printOptions=TRUE
FALSE    extra$consoleWidth=80
FALSE    extra$numThreadsPerCPU=2
FALSE    extra$numParThreads=0
FALSE #.....End of displaying extra .....
FALSE
FALSE -Progress:  0.0% done[>*****]\Progress:  4.2%
FALSE
FALSE #-----#
FALSE #      OPTIONS used in the MCMC inference      #
FALSE #-----#
FALSE #set extra$printOptions=0 to suppress the printing #
FALSE #-----#
FALSE
FALSE #.....Start of displaying 'MetaData' .....
FALSE    metadata=list()
FALSE    metadata$isRegularOrdered=FALSE
FALSE    metadata$season='harmonic'
FALSE    metadata$period=1.000000
FALSE    metadata$startTime=1984.25000
FALSE    metadata$deltaTime=0.08333

```

```

FALSE      metadata$whichDimIsTime=1
FALSE      metadata$missingValue=NaN
FALSE      metadata$maxMissingRate=0.7500
FALSE      metadata$deseasonalize=FALSE
FALSE      metadata$detrend=FALSE
FALSE #.....End of displaying MetaData .....
FALSE
FALSE #.....Start of displaying 'prior' .....
FALSE      prior=list()
FALSE      prior$modelPriorType=1
FALSE      prior$seasonMinOrder=1
FALSE      prior$seasonMaxOrder=5
FALSE      prior$seasonMinKnotNum=0
FALSE      prior$seasonMaxKnotNum=10
FALSE      prior$seasonMinSepDist=6
FALSE      prior$trendMinOrder=0
FALSE      prior$trendMaxOrder=1
FALSE      prior$trendMinKnotNum=0
FALSE      prior$trendMaxKnotNum=10
FALSE      prior$trendMinSepDist=6
FALSE      prior$K_MAX=132
FALSE      prior$precValue=1.500000
FALSE      prior$precPriorType='uniform'
FALSE #.....End of displaying pripr .....
FALSE
FALSE #.....Start of displaying 'mcmc' .....
FALSE      mcmc=list()
FALSE      mcmc$seed=0
FALSE      mcmc$samples=8000
FALSE      mcmc$thinningFactor=5
FALSE      mcmc$burnin=200
FALSE      mcmc$chainNumber=3
FALSE      mcmc$maxMoveStepSize=12
FALSE      mcmc$trendResamplingOrderProb=0.1000
FALSE      mcmc$seasonResamplingOrderProb=0.1700
FALSE      mcmc$credIntervalAlphaLevel=0.950
FALSE #.....End of displaying mcmc .....
FALSE
FALSE #.....Start of displaying 'extra' .....
FALSE      extra=list()
FALSE      extra$dumpInputData=TRUE
FALSE      extra$whichOutputDimIsTime=1
FALSE      extra$computeCredible=TRUE
FALSE      extra$fastCIComputation=TRUE
FALSE      extra$computeSeasonOrder=TRUE
FALSE      extra$computeTrendOrder=TRUE
FALSE      extra$computeSeasonChngpt=TRUE
FALSE      extra$computeTrendChngpt=TRUE
FALSE      extra$computeSeasonAmp=TRUE
FALSE      extra$computeTrendSlope=TRUE
FALSE      extra$tallyPosNegSeasonJump=FALSE
FALSE      extra$tallyPosNegTrendJump=TRUE
FALSE      extra$tallyIncDecTrendJump=TRUE
FALSE      extra$printProgressBar=TRUE

```



```

FALSE      extra$printOptions=TRUE
FALSE      extra$consoleWidth=80
FALSE      extra$numThreadsPerCPU=2
FALSE      extra$numParThreads=0
FALSE #.....End of displaying extra .....
FALSE
FALSE \Progress: 0.0% done[>*****] |Progress: 4.2%
FALSE
FALSE #-----#
FALSE #      OPTIONS used in the MCMC inference      #
FALSE #-----#
FALSE #set extra$printOptions=0 to suppress the printing #
FALSE #-----#
FALSE
FALSE #.....Start of displaying 'MetaData' .....
FALSE      metadata=list()
FALSE      metadata$isRegularOrdered=FALSE
FALSE      metadata$season='harmonic'
FALSE      metadata$period=1.000000
FALSE      metadata$startTime=1984.25000
FALSE      metadata$deltaTime=0.08333
FALSE      metadata$whichDimIsTime=1
FALSE      metadata$missingValue=NaN
FALSE      metadata$maxMissingRate=0.7500
FALSE      metadata$deseasonalize=FALSE
FALSE      metadata$detrend=FALSE
FALSE #.....End of displaying MetaData .....
FALSE
FALSE #.....Start of displaying 'prior' .....
FALSE      prior=list()
FALSE      prior$modelPriorType=1
FALSE      prior$seasonMinOrder=1
FALSE      prior$seasonMaxOrder=5
FALSE      prior$seasonMinKnotNum=0
FALSE      prior$seasonMaxKnotNum=10
FALSE      prior$seasonMinSepDist=6
FALSE      prior$trendMinOrder=0
FALSE      prior$trendMaxOrder=1
FALSE      prior$trendMinKnotNum=0
FALSE      prior$trendMaxKnotNum=10
FALSE      prior$trendMinSepDist=6
FALSE      prior$K_MAX=132
FALSE      prior$precValue=1.500000
FALSE      prior$precPriorType='uniform'
FALSE #.....End of displaying pripr .....
FALSE
FALSE #.....Start of displaying 'mcmc' .....
FALSE      mcmc=list()
FALSE      mcmc$seed=0
FALSE      mcmc$samples=8000
FALSE      mcmc$thinningFactor=5
FALSE      mcmc$burnin=200
FALSE      mcmc$chainNumber=3
FALSE      mcmc$maxMoveStepSize=12

```

```

FALSE      mcmc$trendResamplingOrderProb=0.1000
FALSE      mcmc$seasonResamplingOrderProb=0.1700
FALSE      mcmc$credIntervalAlphaLevel=0.950
FALSE #.....End of displaying mcmc .....
FALSE
FALSE #.....Start of displaying 'extra' .....
FALSE      extra=list()
FALSE      extra$dumpInputData=TRUE
FALSE      extra$whichOutputDimIsTime=1
FALSE      extra$computeCredible=TRUE
FALSE      extra$fastCIComputation=TRUE
FALSE      extra$computeSeasonOrder=TRUE
FALSE      extra$computeTrendOrder=TRUE
FALSE      extra$computeSeasonChngpt=TRUE
FALSE      extra$computeTrendChngpt=TRUE
FALSE      extra$computeSeasonAmp=TRUE
FALSE      extra$computeTrendSlope=TRUE
FALSE      extra$tallyPosNegSeasonJump=FALSE
FALSE      extra$tallyPosNegTrendJump=TRUE
FALSE      extra$tallyIncDecTrendJump=TRUE
FALSE      extra$printProgressBar=TRUE
FALSE      extra$printOptions=TRUE
FALSE      extra$consoleWidth=80
FALSE      extra$numThreadsPerCPU=2
FALSE      extra$numParThreads=0
FALSE #.....End of displaying extra .....
FALSE
FALSE |Progress:  0.0% done[>*****]/Progress:  4.2%
FALSE
FALSE #-----#
FALSE #      OPTIONS used in the MCMC inference      #
FALSE #-----#
FALSE #set extra$printOptions=0 to suppress the printing #
FALSE #-----#
FALSE
FALSE #.....Start of displaying 'MetaData' .....
FALSE      metadata=list()
FALSE      metadata$isRegularOrdered=FALSE
FALSE      metadata$season='harmonic'
FALSE      metadata$period=1.000000
FALSE      metadata$startTime=1984.25000
FALSE      metadata$deltaTime=0.08333
FALSE      metadata$whichDimIsTime=1
FALSE      metadata$missingValue=NaN
FALSE      metadata$maxMissingRate=0.7500
FALSE      metadata$deseasonalize=FALSE
FALSE      metadata$detrend=FALSE
FALSE #.....End of displaying MetaData .....
FALSE
FALSE #.....Start of displaying 'prior' .....
FALSE      prior=list()
FALSE      prior$modelPriorType=1
FALSE      prior$seasonMinOrder=1
FALSE      prior$seasonMaxOrder=5

```

```

FALSE    prior$seasonMinKnotNum=0
FALSE    prior$seasonMaxKnotNum=10
FALSE    prior$seasonMinSepDist=6
FALSE    prior$trendMinOrder=0
FALSE    prior$trendMaxOrder=1
FALSE    prior$trendMinKnotNum=0
FALSE    prior$trendMaxKnotNum=10
FALSE    prior$trendMinSepDist=6
FALSE    prior$K_MAX=132
FALSE    prior$precValue=1.500000
FALSE    prior$precPriorType='uniform'
FALSE #.....End of displaying pripr .....
FALSE
FALSE #.....Start of displaying 'mcmc' .....
FALSE    mcmc=list()
FALSE    mcmc$seed=0
FALSE    mcmc$samples=8000
FALSE    mcmc$thinningFactor=5
FALSE    mcmc$burnin=200
FALSE    mcmc$chainNumber=3
FALSE    mcmc$maxMoveStepSize=12
FALSE    mcmc$trendResamplingOrderProb=0.1000
FALSE    mcmc$seasonResamplingOrderProb=0.1700
FALSE    mcmc$credIntervalAlphaLevel=0.950
FALSE #.....End of displaying mcmc .....
FALSE
FALSE #.....Start of displaying 'extra' .....
FALSE    extra=list()
FALSE    extra$dumpInputData=TRUE
FALSE    extra$whichOutputDimIsTime=1
FALSE    extra$computeCredible=TRUE
FALSE    extra$fastCIComputation=TRUE
FALSE    extra$computeSeasonOrder=TRUE
FALSE    extra$computeTrendOrder=TRUE
FALSE    extra$computeSeasonChngpt=TRUE
FALSE    extra$computeTrendChngpt=TRUE
FALSE    extra$computeSeasonAmp=TRUE
FALSE    extra$computeTrendSlope=TRUE
FALSE    extra$tallyPosNegSeasonJump=FALSE
FALSE    extra$tallyPosNegTrendJump=TRUE
FALSE    extra$tallyIncDecTrendJump=TRUE
FALSE    extra$printProgressBar=TRUE
FALSE    extra$printOptions=TRUE
FALSE    extra$consoleWidth=80
FALSE    extra$numThreadsPerCPU=2
FALSE    extra$numParThreads=0
FALSE #.....End of displaying extra .....
FALSE
FALSE /Progress:  0.0% done[>*****]-Progress:  4.2%
FALSE
FALSE #-----#
FALSE #      OPTIONS used in the MCMC inference      #
FALSE #-----#
FALSE #set extra$printOptions=0 to suppress the printing #

```

```

FALSE #-----#
FALSE
FALSE #.....Start of displaying 'MetaData' .....
FALSE     metadata=list()
FALSE     metadata$isRegularOrdered=FALSE
FALSE     metadata$season='harmonic'
FALSE     metadata$period=1.000000
FALSE     metadata$startTime=1984.25000
FALSE     metadata$deltaTime=0.08333
FALSE     metadata$whichDimIsTime=1
FALSE     metadata$missingValue=NaN
FALSE     metadata$maxMissingRate=0.7500
FALSE     metadata$deseasonalize=FALSE
FALSE     metadata$detrend=FALSE
FALSE #.....End of displaying MetaData .....
FALSE
FALSE #.....Start of displaying 'prior' .....
FALSE     prior=list()
FALSE     prior$modelPriorType=1
FALSE     prior$seasonMinOrder=1
FALSE     prior$seasonMaxOrder=5
FALSE     prior$seasonMinKnotNum=0
FALSE     prior$seasonMaxKnotNum=10
FALSE     prior$seasonMinSepDist=6
FALSE     prior$trendMinOrder=0
FALSE     prior$trendMaxOrder=1
FALSE     prior$trendMinKnotNum=0
FALSE     prior$trendMaxKnotNum=10
FALSE     prior$trendMinSepDist=6
FALSE     prior$K_MAX=132
FALSE     prior$precValue=1.500000
FALSE     prior$precPriorType='uniform'
FALSE #.....End of displaying pripr .....
FALSE
FALSE #.....Start of displaying 'mcmc' .....
FALSE     mcmc=list()
FALSE     mcmc$seed=0
FALSE     mcmc$samples=8000
FALSE     mcmc$thinningFactor=5
FALSE     mcmc$burnin=200
FALSE     mcmc$chainNumber=3
FALSE     mcmc$maxMoveStepSize=12
FALSE     mcmc$trendResamplingOrderProb=0.1000
FALSE     mcmc$seasonResamplingOrderProb=0.1700
FALSE     mcmc$credIntervalAlphaLevel=0.950
FALSE #.....End of displaying mcmc .....
FALSE
FALSE #.....Start of displaying 'extra' .....
FALSE     extra=list()
FALSE     extra$dumpInputData=TRUE
FALSE     extra$whichOutputDimIsTime=1
FALSE     extra$computeCredible=TRUE
FALSE     extra$fastCIComputation=TRUE
FALSE     extra$computeSeasonOrder=TRUE

```

```

FALSE      extra$computeTrendOrder=TRUE
FALSE      extra$computeSeasonChngpt=TRUE
FALSE      extra$computeTrendChngpt=TRUE
FALSE      extra$computeSeasonAmp=TRUE
FALSE      extra$computeTrendSlope=TRUE
FALSE      extra$tallyPosNegSeasonJump=FALSE
FALSE      extra$tallyPosNegTrendJump=TRUE
FALSE      extra$tallyIncDecTrendJump=TRUE
FALSE      extra$printProgressBar=TRUE
FALSE      extra$printOptions=TRUE
FALSE      extra$consoleWidth=80
FALSE      extra$numThreadsPerCPU=2
FALSE      extra$numParThreads=0
FALSE #.....End of displaying extra .....
FALSE
FALSE -Progress:  0.0% done[>*****]\Progress:  4.2%
FALSE
FALSE #-----#
FALSE #      OPTIONS used in the MCMC inference      #
FALSE #-----#
FALSE #set extra$printOptions=0 to suppress the printing #
FALSE #-----#
FALSE
FALSE #.....Start of displaying 'MetaData' .....
FALSE      metadata=list()
FALSE      metadata$isRegularOrdered=FALSE
FALSE      metadata$season='harmonic'
FALSE      metadata$period=1.000000
FALSE      metadata$startTime=1984.25000
FALSE      metadata$deltaTime=0.08333
FALSE      metadata$whichDimIsTime=1
FALSE      metadata$missingValue=NaN
FALSE      metadata$maxMissingRate=0.7500
FALSE      metadata$deseasonalize=FALSE
FALSE      metadata$detrend=FALSE
FALSE #.....End of displaying MetaData .....
FALSE
FALSE #.....Start of displaying 'prior' .....
FALSE      prior=list()
FALSE      prior$modelPriorType=1
FALSE      prior$seasonMinOrder=1
FALSE      prior$seasonMaxOrder=5
FALSE      prior$seasonMinKnotNum=0
FALSE      prior$seasonMaxKnotNum=10
FALSE      prior$seasonMinSepDist=6
FALSE      prior$trendMinOrder=0
FALSE      prior$trendMaxOrder=1
FALSE      prior$trendMinKnotNum=0
FALSE      prior$trendMaxKnotNum=10
FALSE      prior$trendMinSepDist=6
FALSE      prior$K_MAX=132
FALSE      prior$precValue=1.500000
FALSE      prior$precPriorType='uniform'
FALSE #.....End of displaying pripr .....

```

```

FALSE
FALSE #.....Start of displaying 'mcmc' .....
FALSE     mcmc=list()
FALSE     mcmc$seed=0
FALSE     mcmc$samples=8000
FALSE     mcmc$thinningFactor=5
FALSE     mcmc$burnin=200
FALSE     mcmc$chainNumber=3
FALSE     mcmc$maxMoveStepSize=12
FALSE     mcmc$trendResamplingOrderProb=0.1000
FALSE     mcmc$seasonResamplingOrderProb=0.1700
FALSE     mcmc$credIntervalAlphaLevel=0.950
FALSE #.....End of displaying mcmc .....
FALSE
FALSE #.....Start of displaying 'extra' .....
FALSE     extra=list()
FALSE     extra$dumpInputData=TRUE
FALSE     extra$whichOutputDimIsTime=1
FALSE     extra$computeCredible=TRUE
FALSE     extra$fastCIComputation=TRUE
FALSE     extra$computeSeasonOrder=TRUE
FALSE     extra$computeTrendOrder=TRUE
FALSE     extra$computeSeasonChngpt=TRUE
FALSE     extra$computeTrendChngpt=TRUE
FALSE     extra$computeSeasonAmp=TRUE
FALSE     extra$computeTrendSlope=TRUE
FALSE     extra$tallyPosNegSeasonJump=FALSE
FALSE     extra$tallyPosNegTrendJump=TRUE
FALSE     extra$tallyIncDecTrendJump=TRUE
FALSE     extra$printProgressBar=TRUE
FALSE     extra$printOptions=TRUE
FALSE     extra$consoleWidth=80
FALSE     extra$numThreadsPerCPU=2
FALSE     extra$numParThreads=0
FALSE #.....End of displaying extra .....
FALSE
FALSE \Progress:  0.0% done[>*****]Progress:  4.2%
FALSE
FALSE #-----#
FALSE #     OPTIONS used in the MCMC inference     #
FALSE #-----#
FALSE #set extra$printOptions=0 to suppress the printing #
FALSE #-----#
FALSE
FALSE #.....Start of displaying 'MetaData' .....
FALSE     metadata=list()
FALSE     metadata$isRegularOrdered=FALSE
FALSE     metadata$season='harmonic'
FALSE     metadata$period=1.000000
FALSE     metadata$startTime=1984.25000
FALSE     metadata$deltaTime=0.08333
FALSE     metadata$whichDimIsTime=1
FALSE     metadata$missingValue=NaN
FALSE     metadata$maxMissingRate=0.7500

```

```

FALSE      metadata$deseasonalize=FALSE
FALSE      metadata$detrend=FALSE
FALSE #.....End of displaying MetaData .....
FALSE
FALSE #.....Start of displaying 'prior' .....
FALSE      prior=list()
FALSE      prior$modelPriorType=1
FALSE      prior$seasonMinOrder=1
FALSE      prior$seasonMaxOrder=5
FALSE      prior$seasonMinKnotNum=0
FALSE      prior$seasonMaxKnotNum=10
FALSE      prior$seasonMinSepDist=6
FALSE      prior$trendMinOrder=0
FALSE      prior$trendMaxOrder=1
FALSE      prior$trendMinKnotNum=0
FALSE      prior$trendMaxKnotNum=10
FALSE      prior$trendMinSepDist=6
FALSE      prior$K_MAX=132
FALSE      prior$precValue=1.500000
FALSE      prior$precPriorType='uniform'
FALSE #.....End of displaying pripr .....
FALSE
FALSE #.....Start of displaying 'mcmc' .....
FALSE      mcmc=list()
FALSE      mcmc$seed=0
FALSE      mcmc$samples=8000
FALSE      mcmc$thinningFactor=5
FALSE      mcmc$burnin=200
FALSE      mcmc$chainNumber=3
FALSE      mcmc$maxMoveStepSize=12
FALSE      mcmc$trendResamplingOrderProb=0.1000
FALSE      mcmc$seasonResamplingOrderProb=0.1700
FALSE      mcmc$credIntervalAlphaLevel=0.950
FALSE #.....End of displaying mcmc .....
FALSE
FALSE #.....Start of displaying 'extra' .....
FALSE      extra=list()
FALSE      extra$dumpInputData=TRUE
FALSE      extra$whichOutputDimIsTime=1
FALSE      extra$computeCredible=TRUE
FALSE      extra$fastCIComputation=TRUE
FALSE      extra$computeSeasonOrder=TRUE
FALSE      extra$computeTrendOrder=TRUE
FALSE      extra$computeSeasonChngpt=TRUE
FALSE      extra$computeTrendChngpt=TRUE
FALSE      extra$computeSeasonAmp=TRUE
FALSE      extra$computeTrendSlope=TRUE
FALSE      extra$tallyPosNegSeasonJump=FALSE
FALSE      extra$tallyPosNegTrendJump=TRUE
FALSE      extra$tallyIncDecTrendJump=TRUE
FALSE      extra$printProgressBar=TRUE
FALSE      extra$printOptions=TRUE
FALSE      extra$consoleWidth=80
FALSE      extra$numThreadsPerCPU=2

```

```

FALSE      extra$numParThreads=0
FALSE #.....End of displaying extra .....
FALSE
FALSE |Progress:  0.0% done[>*****]/Progress:  4.2%
FALSE
FALSE #-----#
FALSE #      OPTIONS used in the MCMC inference      #
FALSE #-----#
FALSE #set extra$printOptions=0 to suppress the printing #
FALSE #-----#
FALSE
FALSE #.....Start of displaying 'MetaData' .....
FALSE      metadata=list()
FALSE      metadata$isRegularOrdered=FALSE
FALSE      metadata$season='harmonic'
FALSE      metadata$period=1.000000
FALSE      metadata$startTime=1984.25000
FALSE      metadata$deltaTime=0.08333
FALSE      metadata$whichDimIsTime=1
FALSE      metadata$missingValue=NaN
FALSE      metadata$maxMissingRate=0.7500
FALSE      metadata$deseasonalize=FALSE
FALSE      metadata$detrend=FALSE
FALSE #.....End of displaying MetaData .....
FALSE
FALSE #.....Start of displaying 'prior' .....
FALSE      prior=list()
FALSE      prior$modelPriorType=1
FALSE      prior$seasonMinOrder=1
FALSE      prior$seasonMaxOrder=5
FALSE      prior$seasonMinKnotNum=0
FALSE      prior$seasonMaxKnotNum=10
FALSE      prior$seasonMinSepDist=6
FALSE      prior$trendMinOrder=0
FALSE      prior$trendMaxOrder=1
FALSE      prior$trendMinKnotNum=0
FALSE      prior$trendMaxKnotNum=10
FALSE      prior$trendMinSepDist=6
FALSE      prior$K_MAX=132
FALSE      prior$precValue=1.500000
FALSE      prior$precPriorType='uniform'
FALSE #.....End of displaying pripr .....
FALSE
FALSE #.....Start of displaying 'mcmc' .....
FALSE      mcmc=list()
FALSE      mcmc$seed=0
FALSE      mcmc$samples=8000
FALSE      mcmc$thinningFactor=5
FALSE      mcmc$burnin=200
FALSE      mcmc$chainNumber=3
FALSE      mcmc$maxMoveStepSize=12
FALSE      mcmc$trendResamplingOrderProb=0.1000
FALSE      mcmc$seasonResamplingOrderProb=0.1700
FALSE      mcmc$credIntervalAlphaLevel=0.950

```



```

FALSE #.....End of displaying mcmc .....
FALSE
FALSE #.....Start of displaying 'extra' .....
FALSE     extra=list()
FALSE     extra$dumpInputData=TRUE
FALSE     extra$whichOutputDimIsTime=1
FALSE     extra$computeCredible=TRUE
FALSE     extra$fastCIComputation=TRUE
FALSE     extra$computeSeasonOrder=TRUE
FALSE     extra$computeTrendOrder=TRUE
FALSE     extra$computeSeasonChngpt=TRUE
FALSE     extra$computeTrendChngpt=TRUE
FALSE     extra$computeSeasonAmp=TRUE
FALSE     extra$computeTrendSlope=TRUE
FALSE     extra$tallyPosNegSeasonJump=FALSE
FALSE     extra$tallyPosNegTrendJump=TRUE
FALSE     extra$tallyIncDecTrendJump=TRUE
FALSE     extra$printProgressBar=TRUE
FALSE     extra$printOptions=TRUE
FALSE     extra$consoleWidth=80
FALSE     extra$numThreadsPerCPU=2
FALSE     extra$numParThreads=0
FALSE #.....End of displaying extra .....
FALSE
FALSE /Progress:  0.0% done[>*****]-Progress:  4.2%
FALSE
FALSE #-----#
FALSE #     OPTIONS used in the MCMC inference     #
FALSE #-----#
FALSE #set extra$printOptions=0 to suppress the printing #
FALSE #-----#
FALSE
FALSE #.....Start of displaying 'MetaData' .....
FALSE     metadata=list()
FALSE     metadata$isRegularOrdered=FALSE
FALSE     metadata$season='harmonic'
FALSE     metadata$period=1.000000
FALSE     metadata$startTime=1984.25000
FALSE     metadata$deltaTime=0.08333
FALSE     metadata$whichDimIsTime=1
FALSE     metadata$missingValue=NaN
FALSE     metadata$maxMissingRate=0.7500
FALSE     metadata$deseasonalize=FALSE
FALSE     metadata$detrend=FALSE
FALSE #.....End of displaying MetaData .....
FALSE
FALSE #.....Start of displaying 'prior' .....
FALSE     prior=list()
FALSE     prior$modelPriorType=1
FALSE     prior$seasonMinOrder=1
FALSE     prior$seasonMaxOrder=5
FALSE     prior$seasonMinKnotNum=0
FALSE     prior$seasonMaxKnotNum=10
FALSE     prior$seasonMinSepDist=6

```

```

FALSE    prior$trendMinOrder=0
FALSE    prior$trendMaxOrder=1
FALSE    prior$trendMinKnotNum=0
FALSE    prior$trendMaxKnotNum=10
FALSE    prior$trendMinSepDist=6
FALSE    prior$K_MAX=132
FALSE    prior$precValue=1.500000
FALSE    prior$precPriorType='uniform'
FALSE #.....End of displaying pripr .....
FALSE
FALSE #.....Start of displaying 'mcmc' .....
FALSE    mcmc=list()
FALSE    mcmc$seed=0
FALSE    mcmc$samples=8000
FALSE    mcmc$thinningFactor=5
FALSE    mcmc$burnin=200
FALSE    mcmc$chainNumber=3
FALSE    mcmc$maxMoveStepSize=12
FALSE    mcmc$trendResamplingOrderProb=0.1000
FALSE    mcmc$seasonResamplingOrderProb=0.1700
FALSE    mcmc$credIntervalAlphaLevel=0.950
FALSE #.....End of displaying mcmc .....
FALSE
FALSE #.....Start of displaying 'extra' .....
FALSE    extra=list()
FALSE    extra$dumpInputData=TRUE
FALSE    extra$whichOutputDimIsTime=1
FALSE    extra$computeCredible=TRUE
FALSE    extra$fastCIComputation=TRUE
FALSE    extra$computeSeasonOrder=TRUE
FALSE    extra$computeTrendOrder=TRUE
FALSE    extra$computeSeasonChngpt=TRUE
FALSE    extra$computeTrendChngpt=TRUE
FALSE    extra$computeSeasonAmp=TRUE
FALSE    extra$computeTrendSlope=TRUE
FALSE    extra$tallyPosNegSeasonJump=FALSE
FALSE    extra$tallyPosNegTrendJump=TRUE
FALSE    extra$tallyIncDecTrendJump=TRUE
FALSE    extra$printProgressBar=TRUE
FALSE    extra$printOptions=TRUE
FALSE    extra$consoleWidth=80
FALSE    extra$numThreadsPerCPU=2
FALSE    extra$numParThreads=0
FALSE #.....End of displaying extra .....
FALSE
FALSE -Progress:  0.0% done[>*****]\Progress:  4.2%
FALSE
FALSE #-----#
FALSE #      OPTIONS used in the MCMC inference      #
FALSE #-----#
FALSE #set extra$printOptions=0 to suppress the printing #
FALSE #-----#
FALSE
FALSE #.....Start of displaying 'MetaData' .....

```

```

FALSE      metadata=list()
FALSE      metadata$isRegularOrdered=FALSE
FALSE      metadata$season='harmonic'
FALSE      metadata$period=1.000000
FALSE      metadata$startTime=1984.41675
FALSE      metadata$deltaTime=0.08333
FALSE      metadata$whichDimIsTime=1
FALSE      metadata$missingValue=NaN
FALSE      metadata$maxMissingRate=0.7500
FALSE      metadata$deseasonalize=FALSE
FALSE      metadata$detrend=FALSE
FALSE #.....End of displaying MetaData .....
FALSE
FALSE #.....Start of displaying 'prior' .....
FALSE      prior=list()
FALSE      prior$modelPriorType=1
FALSE      prior$seasonMinOrder=1
FALSE      prior$seasonMaxOrder=5
FALSE      prior$seasonMinKnotNum=0
FALSE      prior$seasonMaxKnotNum=10
FALSE      prior$seasonMinSepDist=6
FALSE      prior$trendMinOrder=0
FALSE      prior$trendMaxOrder=1
FALSE      prior$trendMinKnotNum=0
FALSE      prior$trendMaxKnotNum=10
FALSE      prior$trendMinSepDist=6
FALSE      prior$K_MAX=132
FALSE      prior$precValue=1.500000
FALSE      prior$precPriorType='uniform'
FALSE #.....End of displaying pripr .....
FALSE
FALSE #.....Start of displaying 'mcmc' .....
FALSE      mcmc=list()
FALSE      mcmc$seed=0
FALSE      mcmc$samples=8000
FALSE      mcmc$thinningFactor=5
FALSE      mcmc$burnin=200
FALSE      mcmc$chainNumber=3
FALSE      mcmc$maxMoveStepSize=12
FALSE      mcmc$trendResamplingOrderProb=0.1000
FALSE      mcmc$seasonResamplingOrderProb=0.1700
FALSE      mcmc$credIntervalAlphaLevel=0.950
FALSE #.....End of displaying mcmc .....
FALSE
FALSE #.....Start of displaying 'extra' .....
FALSE      extra=list()
FALSE      extra$dumpInputData=TRUE
FALSE      extra$whichOutputDimIsTime=1
FALSE      extra$computeCredible=TRUE
FALSE      extra$fastCIComputation=TRUE
FALSE      extra$computeSeasonOrder=TRUE
FALSE      extra$computeTrendOrder=TRUE
FALSE      extra$computeSeasonChngpt=TRUE
FALSE      extra$computeTrendChngpt=TRUE

```

```

FALSE      extra$computeSeasonAmp=TRUE
FALSE      extra$computeTrendSlope=TRUE
FALSE      extra$tallyPosNegSeasonJump=FALSE
FALSE      extra$tallyPosNegTrendJump=TRUE
FALSE      extra$tallyIncDecTrendJump=TRUE
FALSE      extra$printProgressBar=TRUE
FALSE      extra$printOptions=TRUE
FALSE      extra$consoleWidth=80
FALSE      extra$numThreadsPerCPU=2
FALSE      extra$numParThreads=0
FALSE      #.....End of displaying extra .....
FALSE
FALSE      \Progress:  0.0% done[>*****] |Progress:  4.2%
FALSE
FALSE      #-----#
FALSE      #      OPTIONS used in the MCMC inference      #
FALSE      #-----#
FALSE      #set extra$printOptions=0 to suppress the printing #
FALSE      #-----#
FALSE
FALSE      #.....Start of displaying 'MetaData' .....
FALSE      metadata=list()
FALSE      metadata$isRegularOrdered=FALSE
FALSE      metadata$season='harmonic'
FALSE      metadata$period=1.000000
FALSE      metadata$startTime=1984.33337
FALSE      metadata$deltaTime=0.08333
FALSE      metadata$whichDimIsTime=1
FALSE      metadata$missingValue=NaN
FALSE      metadata$maxMissingRate=0.7500
FALSE      metadata$deseasonalize=FALSE
FALSE      metadata$detrend=FALSE
FALSE      #.....End of displaying MetaData .....
FALSE
FALSE      #.....Start of displaying 'prior' .....
FALSE      prior=list()
FALSE      prior$modelPriorType=1
FALSE      prior$seasonMinOrder=1
FALSE      prior$seasonMaxOrder=5
FALSE      prior$seasonMinKnotNum=0
FALSE      prior$seasonMaxKnotNum=10
FALSE      prior$seasonMinSepDist=6
FALSE      prior$trendMinOrder=0
FALSE      prior$trendMaxOrder=1
FALSE      prior$trendMinKnotNum=0
FALSE      prior$trendMaxKnotNum=10
FALSE      prior$trendMinSepDist=6
FALSE      prior$K_MAX=132
FALSE      prior$precValue=1.500000
FALSE      prior$precPriorType='uniform'
FALSE      #.....End of displaying pripr .....
FALSE
FALSE      #.....Start of displaying 'mcmc' .....
FALSE      mcmc=list()

```

```

FALSE      mcmc$seed=0
FALSE      mcmc$samples=8000
FALSE      mcmc$thinningFactor=5
FALSE      mcmc$burnin=200
FALSE      mcmc$chainNumber=3
FALSE      mcmc$maxMoveStepSize=12
FALSE      mcmc$trendResamplingOrderProb=0.1000
FALSE      mcmc$seasonResamplingOrderProb=0.1700
FALSE      mcmc$credIntervalAlphaLevel=0.950
FALSE #.....End of displaying mcmc .....
FALSE
FALSE #.....Start of displaying 'extra' .....
FALSE      extra=list()
FALSE      extra$dumpInputData=TRUE
FALSE      extra$whichOutputDimIsTime=1
FALSE      extra$computeCredible=TRUE
FALSE      extra$fastCIComputation=TRUE
FALSE      extra$computeSeasonOrder=TRUE
FALSE      extra$computeTrendOrder=TRUE
FALSE      extra$computeSeasonChngpt=TRUE
FALSE      extra$computeTrendChngpt=TRUE
FALSE      extra$computeSeasonAmp=TRUE
FALSE      extra$computeTrendSlope=TRUE
FALSE      extra$tallyPosNegSeasonJump=FALSE
FALSE      extra$tallyPosNegTrendJump=TRUE
FALSE      extra$tallyIncDecTrendJump=TRUE
FALSE      extra$printProgressBar=TRUE
FALSE      extra$printOptions=TRUE
FALSE      extra$consoleWidth=80
FALSE      extra$numThreadsPerCPU=2
FALSE      extra$numParThreads=0
FALSE #.....End of displaying extra .....
FALSE
FALSE |Progress:  0.0% done[>*****]/Progress:  4.2%
FALSE
FALSE #-----#
FALSE #      OPTIONS used in the MCMC inference      #
FALSE #-----#
FALSE #set extra$printOptions=0 to suppress the printing #
FALSE #-----#
FALSE
FALSE #.....Start of displaying 'MetaData' .....
FALSE      metadata=list()
FALSE      metadata$isRegularOrdered=FALSE
FALSE      metadata$season='harmonic'
FALSE      metadata$period=1.000000
FALSE      metadata$startTime=1984.33337
FALSE      metadata$deltaTime=0.08333
FALSE      metadata$whichDimIsTime=1
FALSE      metadata$missingValue=NaN
FALSE      metadata$maxMissingRate=0.7500
FALSE      metadata$deseasonalize=FALSE
FALSE      metadata$detrend=FALSE
FALSE #.....End of displaying MetaData .....

```

```

FALSE
FALSE #.....Start of displaying 'prior' .....
FALSE   prior=list()
FALSE   prior$modelPriorType=1
FALSE   prior$seasonMinOrder=1
FALSE   prior$seasonMaxOrder=5
FALSE   prior$seasonMinKnotNum=0
FALSE   prior$seasonMaxKnotNum=10
FALSE   prior$seasonMinSepDist=6
FALSE   prior$trendMinOrder=0
FALSE   prior$trendMaxOrder=1
FALSE   prior$trendMinKnotNum=0
FALSE   prior$trendMaxKnotNum=10
FALSE   prior$trendMinSepDist=6
FALSE   prior$K_MAX=132
FALSE   prior$precValue=1.500000
FALSE   prior$precPriorType='uniform'
FALSE #.....End of displaying pripr .....
FALSE
FALSE #.....Start of displaying 'mcmc' .....
FALSE   mcmc=list()
FALSE   mcmc$seed=0
FALSE   mcmc$samples=8000
FALSE   mcmc$thinningFactor=5
FALSE   mcmc$burnin=200
FALSE   mcmc$chainNumber=3
FALSE   mcmc$maxMoveStepSize=12
FALSE   mcmc$trendResamplingOrderProb=0.1000
FALSE   mcmc$seasonResamplingOrderProb=0.1700
FALSE   mcmc$credIntervalAlphaLevel=0.950
FALSE #.....End of displaying mcmc .....
FALSE
FALSE #.....Start of displaying 'extra' .....
FALSE   extra=list()
FALSE   extra$dumpInputData=TRUE
FALSE   extra$whichOutputDimIsTime=1
FALSE   extra$computeCredible=TRUE
FALSE   extra$fastCIComputation=TRUE
FALSE   extra$computeSeasonOrder=TRUE
FALSE   extra$computeTrendOrder=TRUE
FALSE   extra$computeSeasonChngpt=TRUE
FALSE   extra$computeTrendChngpt=TRUE
FALSE   extra$computeSeasonAmp=TRUE
FALSE   extra$computeTrendSlope=TRUE
FALSE   extra$tallyPosNegSeasonJump=FALSE
FALSE   extra$tallyPosNegTrendJump=TRUE
FALSE   extra$tallyIncDecTrendJump=TRUE
FALSE   extra$printProgressBar=TRUE
FALSE   extra$printOptions=TRUE
FALSE   extra$consoleWidth=80
FALSE   extra$numThreadsPerCPU=2
FALSE   extra$numParThreads=0
FALSE #.....End of displaying extra .....
FALSE

```

```

FALSE /Progress: 0.0% done[>*****]-Progress: 4.2%
FALSE
FALSE #-----#
FALSE #      OPTIONS used in the MCMC inference      #
FALSE #-----#
FALSE #set extra$printOptions=0 to suppress the printing #
FALSE #-----#
FALSE
FALSE #.....Start of displaying 'MetaData' .....
FALSE   metadata=list()
FALSE   metadata$isRegularOrdered=FALSE
FALSE   metadata$season='harmonic'
FALSE   metadata$period=1.000000
FALSE   metadata$startTime=1984.33337
FALSE   metadata$deltaTime=0.08333
FALSE   metadata$whichDimIsTime=1
FALSE   metadata$missingValue=NaN
FALSE   metadata$maxMissingRate=0.7500
FALSE   metadata$deseasonalize=FALSE
FALSE   metadata$detrend=FALSE
FALSE #.....End of displaying MetaData .....
FALSE
FALSE #.....Start of displaying 'prior' .....
FALSE   prior=list()
FALSE   prior$modelPriorType=1
FALSE   prior$seasonMinOrder=1
FALSE   prior$seasonMaxOrder=5
FALSE   prior$seasonMinKnotNum=0
FALSE   prior$seasonMaxKnotNum=10
FALSE   prior$seasonMinSepDist=6
FALSE   prior$trendMinOrder=0
FALSE   prior$trendMaxOrder=1
FALSE   prior$trendMinKnotNum=0
FALSE   prior$trendMaxKnotNum=10
FALSE   prior$trendMinSepDist=6
FALSE   prior$K_MAX=132
FALSE   prior$precValue=1.500000
FALSE   prior$precPriorType='uniform'
FALSE #.....End of displaying pripr .....
FALSE
FALSE #.....Start of displaying 'mcmc' .....
FALSE   mcmc=list()
FALSE   mcmc$seed=0
FALSE   mcmc$samples=8000
FALSE   mcmc$thinningFactor=5
FALSE   mcmc$burnin=200
FALSE   mcmc$chainNumber=3
FALSE   mcmc$maxMoveStepSize=12
FALSE   mcmc$trendResamplingOrderProb=0.1000
FALSE   mcmc$seasonResamplingOrderProb=0.1700
FALSE   mcmc$credIntervalAlphaLevel=0.950
FALSE #.....End of displaying mcmc .....
FALSE
FALSE #.....Start of displaying 'extra' .....

```

```

FALSE      extra=list()
FALSE      extra$dumpInputData=TRUE
FALSE      extra$whichOutputDimIsTime=1
FALSE      extra$computeCredible=TRUE
FALSE      extra$fastCIComputation=TRUE
FALSE      extra$computeSeasonOrder=TRUE
FALSE      extra$computeTrendOrder=TRUE
FALSE      extra$computeSeasonChngpt=TRUE
FALSE      extra$computeTrendChngpt=TRUE
FALSE      extra$computeSeasonAmp=TRUE
FALSE      extra$computeTrendSlope=TRUE
FALSE      extra$tallyPosNegSeasonJump=FALSE
FALSE      extra$tallyPosNegTrendJump=TRUE
FALSE      extra$tallyIncDecTrendJump=TRUE
FALSE      extra$printProgressBar=TRUE
FALSE      extra$printOptions=TRUE
FALSE      extra$consoleWidth=80
FALSE      extra$numThreadsPerCPU=2
FALSE      extra$numParThreads=0
FALSE      #.....End of displaying extra .....
FALSE
FALSE      -Progress:  0.0% done[>*****]\Progress:  4.2%
FALSE
FALSE      #-----#
FALSE      #      OPTIONS used in the MCMC inference      #
FALSE      #-----#
FALSE      #set extra$printOptions=0 to suppress the printing #
FALSE      #-----#
FALSE
FALSE      #.....Start of displaying 'MetaData' .....
FALSE      metadata=list()
FALSE      metadata$isRegularOrdered=FALSE
FALSE      metadata$season='harmonic'
FALSE      metadata$period=1.000000
FALSE      metadata$startTime=1984.25000
FALSE      metadata$deltaTime=0.08333
FALSE      metadata$whichDimIsTime=1
FALSE      metadata$missingValue=NaN
FALSE      metadata$maxMissingRate=0.7500
FALSE      metadata$deseasonalize=FALSE
FALSE      metadata$detrend=FALSE
FALSE      #.....End of displaying MetaData .....
FALSE
FALSE      #.....Start of displaying 'prior' .....
FALSE      prior=list()
FALSE      prior$modelPriorType=1
FALSE      prior$seasonMinOrder=1
FALSE      prior$seasonMaxOrder=5
FALSE      prior$seasonMinKnotNum=0
FALSE      prior$seasonMaxKnotNum=10
FALSE      prior$seasonMinSepDist=6
FALSE      prior$trendMinOrder=0
FALSE      prior$trendMaxOrder=1
FALSE      prior$trendMinKnotNum=0

```



```

FALSE    prior$trendMaxKnotNum=10
FALSE    prior$trendMinSepDist=6
FALSE    prior$K_MAX=132
FALSE    prior$precValue=1.500000
FALSE    prior$precPriorType='uniform'
FALSE #.....End of displaying pripr .....
FALSE
FALSE #.....Start of displaying 'mcmc' .....
FALSE    mcmc=list()
FALSE    mcmc$seed=0
FALSE    mcmc$samples=8000
FALSE    mcmc$thinningFactor=5
FALSE    mcmc$burnin=200
FALSE    mcmc$chainNumber=3
FALSE    mcmc$maxMoveStepSize=12
FALSE    mcmc$trendResamplingOrderProb=0.1000
FALSE    mcmc$seasonResamplingOrderProb=0.1700
FALSE    mcmc$credIntervalAlphaLevel=0.950
FALSE #.....End of displaying mcmc .....
FALSE
FALSE #.....Start of displaying 'extra' .....
FALSE    extra=list()
FALSE    extra$dumpInputData=TRUE
FALSE    extra$whichOutputDimIsTime=1
FALSE    extra$computeCredible=TRUE
FALSE    extra$fastCIComputation=TRUE
FALSE    extra$computeSeasonOrder=TRUE
FALSE    extra$computeTrendOrder=TRUE
FALSE    extra$computeSeasonChngpt=TRUE
FALSE    extra$computeTrendChngpt=TRUE
FALSE    extra$computeSeasonAmp=TRUE
FALSE    extra$computeTrendSlope=TRUE
FALSE    extra$tallyPosNegSeasonJump=FALSE
FALSE    extra$tallyPosNegTrendJump=TRUE
FALSE    extra$tallyIncDecTrendJump=TRUE
FALSE    extra$printProgressBar=TRUE
FALSE    extra$printOptions=TRUE
FALSE    extra$consoleWidth=80
FALSE    extra$numThreadsPerCPU=2
FALSE    extra$numParThreads=0
FALSE #.....End of displaying extra .....
FALSE
FALSE \Progress:  0.0% done[>*****]Progress:  4.2%
FALSE
FALSE #-----#
FALSE #      OPTIONS used in the MCMC inference      #
FALSE #-----#
FALSE #set extra$printOptions=0 to suppress the printing #
FALSE #-----#
FALSE
FALSE #.....Start of displaying 'MetaData' .....
FALSE    metadata=list()
FALSE    metadata$isRegularOrdered=FALSE
FALSE    metadata$season='harmonic'

```

```

FALSE      metadata$period=1.000000
FALSE      metadata$startTime=1984.33337
FALSE      metadata$deltaTime=0.08333
FALSE      metadata$whichDimIsTime=1
FALSE      metadata$missingValue=NaN
FALSE      metadata$maxMissingRate=0.7500
FALSE      metadata$deseasonalize=FALSE
FALSE      metadata$detrend=FALSE
FALSE #.....End of displaying MetaData .....
FALSE
FALSE #.....Start of displaying 'prior' .....
FALSE      prior=list()
FALSE      prior$modelPriorType=1
FALSE      prior$seasonMinOrder=1
FALSE      prior$seasonMaxOrder=5
FALSE      prior$seasonMinKnotNum=0
FALSE      prior$seasonMaxKnotNum=10
FALSE      prior$seasonMinSepDist=6
FALSE      prior$trendMinOrder=0
FALSE      prior$trendMaxOrder=1
FALSE      prior$trendMinKnotNum=0
FALSE      prior$trendMaxKnotNum=10
FALSE      prior$trendMinSepDist=6
FALSE      prior$K_MAX=132
FALSE      prior$precValue=1.500000
FALSE      prior$precPriorType='uniform'
FALSE #.....End of displaying pripr .....
FALSE
FALSE #.....Start of displaying 'mcmc' .....
FALSE      mcmc=list()
FALSE      mcmc$seed=0
FALSE      mcmc$samples=8000
FALSE      mcmc$thinningFactor=5
FALSE      mcmc$burnin=200
FALSE      mcmc$chainNumber=3
FALSE      mcmc$maxMoveStepSize=12
FALSE      mcmc$trendResamplingOrderProb=0.1000
FALSE      mcmc$seasonResamplingOrderProb=0.1700
FALSE      mcmc$credIntervalAlphaLevel=0.950
FALSE #.....End of displaying mcmc .....
FALSE
FALSE #.....Start of displaying 'extra' .....
FALSE      extra=list()
FALSE      extra$dumpInputData=TRUE
FALSE      extra$whichOutputDimIsTime=1
FALSE      extra$computeCredible=TRUE
FALSE      extra$fastCIComputation=TRUE
FALSE      extra$computeSeasonOrder=TRUE
FALSE      extra$computeTrendOrder=TRUE
FALSE      extra$computeSeasonChngpt=TRUE
FALSE      extra$computeTrendChngpt=TRUE
FALSE      extra$computeSeasonAmp=TRUE
FALSE      extra$computeTrendSlope=TRUE
FALSE      extra$tallyPosNegSeasonJump=FALSE

```

```

FALSE      extra$tallyPosNegTrendJump=TRUE
FALSE      extra$tallyIncDecTrendJump=TRUE
FALSE      extra$printProgressBar=TRUE
FALSE      extra$printOptions=TRUE
FALSE      extra$consoleWidth=80
FALSE      extra$numThreadsPerCPU=2
FALSE      extra$numParThreads=0
FALSE #.....End of displaying extra .....
FALSE
FALSE |Progress:  0.0% done[>*****]/Progress:  4.2%
FALSE
FALSE #-----#
FALSE #      OPTIONS used in the MCMC inference      #
FALSE #-----#
FALSE #set extra$printOptions=0 to suppress the printing #
FALSE #-----#
FALSE
FALSE #.....Start of displaying 'MetaData' .....
FALSE      metadata=list()
FALSE      metadata$isRegularOrdered=FALSE
FALSE      metadata$season='harmonic'
FALSE      metadata$period=1.000000
FALSE      metadata$startTime=1984.41675
FALSE      metadata$deltaTime=0.08333
FALSE      metadata$whichDimIsTime=1
FALSE      metadata$missingValue=NaN
FALSE      metadata$maxMissingRate=0.7500
FALSE      metadata$deseasonalize=FALSE
FALSE      metadata$detrend=FALSE
FALSE #.....End of displaying MetaData .....
FALSE
FALSE #.....Start of displaying 'prior' .....
FALSE      prior=list()
FALSE      prior$modelPriorType=1
FALSE      prior$seasonMinOrder=1
FALSE      prior$seasonMaxOrder=5
FALSE      prior$seasonMinKnotNum=0
FALSE      prior$seasonMaxKnotNum=10
FALSE      prior$seasonMinSepDist=6
FALSE      prior$trendMinOrder=0
FALSE      prior$trendMaxOrder=1
FALSE      prior$trendMinKnotNum=0
FALSE      prior$trendMaxKnotNum=10
FALSE      prior$trendMinSepDist=6
FALSE      prior$K_MAX=132
FALSE      prior$precValue=1.500000
FALSE      prior$precPriorType='uniform'
FALSE #.....End of displaying pripr .....
FALSE
FALSE #.....Start of displaying 'mcmc' .....
FALSE      mcmc=list()
FALSE      mcmc$seed=0
FALSE      mcmc$samples=8000
FALSE      mcmc$thinningFactor=5

```

```

FALSE      mcmc$burnin=200
FALSE      mcmc$chainNumber=3
FALSE      mcmc$maxMoveStepSize=12
FALSE      mcmc$trendResamplingOrderProb=0.1000
FALSE      mcmc$seasonResamplingOrderProb=0.1700
FALSE      mcmc$credIntervalAlphaLevel=0.950
FALSE #.....End of displaying mcmc .....
FALSE
FALSE #.....Start of displaying 'extra' .....
FALSE      extra=list()
FALSE      extra$dumpInputData=TRUE
FALSE      extra$whichOutputDimIsTime=1
FALSE      extra$computeCredible=TRUE
FALSE      extra$fastCIComputation=TRUE
FALSE      extra$computeSeasonOrder=TRUE
FALSE      extra$computeTrendOrder=TRUE
FALSE      extra$computeSeasonChngpt=TRUE
FALSE      extra$computeTrendChngpt=TRUE
FALSE      extra$computeSeasonAmp=TRUE
FALSE      extra$computeTrendSlope=TRUE
FALSE      extra$tallyPosNegSeasonJump=FALSE
FALSE      extra$tallyPosNegTrendJump=TRUE
FALSE      extra$tallyIncDecTrendJump=TRUE
FALSE      extra$printProgressBar=TRUE
FALSE      extra$printOptions=TRUE
FALSE      extra$consoleWidth=80
FALSE      extra$numThreadsPerCPU=2
FALSE      extra$numParThreads=0
FALSE #.....End of displaying extra .....
FALSE
FALSE /Progress:  0.0% done[>*****]-Progress:  4.2%
FALSE
FALSE #-----#
FALSE #      OPTIONS used in the MCMC inference      #
FALSE #-----#
FALSE #set extra$printOptions=0 to suppress the printing #
FALSE #-----#
FALSE
FALSE #.....Start of displaying 'MetaData' .....
FALSE      metadata=list()
FALSE      metadata$isRegularOrdered=FALSE
FALSE      metadata$season='harmonic'
FALSE      metadata$period=1.000000
FALSE      metadata$startTime=1984.41675
FALSE      metadata$deltaTime=0.08333
FALSE      metadata$whichDimIsTime=1
FALSE      metadata$missingValue=NaN
FALSE      metadata$maxMissingRate=0.7500
FALSE      metadata$deseasonalize=FALSE
FALSE      metadata$detrend=FALSE
FALSE #.....End of displaying MetaData .....
FALSE
FALSE #.....Start of displaying 'prior' .....
FALSE      prior=list()

```

```

FALSE    prior$modelPriorType=1
FALSE    prior$seasonMinOrder=1
FALSE    prior$seasonMaxOrder=5
FALSE    prior$seasonMinKnotNum=0
FALSE    prior$seasonMaxKnotNum=10
FALSE    prior$seasonMinSepDist=6
FALSE    prior$trendMinOrder=0
FALSE    prior$trendMaxOrder=1
FALSE    prior$trendMinKnotNum=0
FALSE    prior$trendMaxKnotNum=10
FALSE    prior$trendMinSepDist=6
FALSE    prior$K_MAX=132
FALSE    prior$precValue=1.500000
FALSE    prior$precPriorType='uniform'
FALSE #.....End of displaying pripr .....
FALSE
FALSE #.....Start of displaying 'mcmc' .....
FALSE    mcmc=list()
FALSE    mcmc$seed=0
FALSE    mcmc$samples=8000
FALSE    mcmc$thinningFactor=5
FALSE    mcmc$burnin=200
FALSE    mcmc$chainNumber=3
FALSE    mcmc$maxMoveStepSize=12
FALSE    mcmc$trendResamplingOrderProb=0.1000
FALSE    mcmc$seasonResamplingOrderProb=0.1700
FALSE    mcmc$credIntervalAlphaLevel=0.950
FALSE #.....End of displaying mcmc .....
FALSE
FALSE #.....Start of displaying 'extra' .....
FALSE    extra=list()
FALSE    extra$dumpInputData=TRUE
FALSE    extra$whichOutputDimIsTime=1
FALSE    extra$computeCredible=TRUE
FALSE    extra$fastCIComputation=TRUE
FALSE    extra$computeSeasonOrder=TRUE
FALSE    extra$computeTrendOrder=TRUE
FALSE    extra$computeSeasonChngpt=TRUE
FALSE    extra$computeTrendChngpt=TRUE
FALSE    extra$computeSeasonAmp=TRUE
FALSE    extra$computeTrendSlope=TRUE
FALSE    extra$tallyPosNegSeasonJump=FALSE
FALSE    extra$tallyPosNegTrendJump=TRUE
FALSE    extra$tallyIncDecTrendJump=TRUE
FALSE    extra$printProgressBar=TRUE
FALSE    extra$printOptions=TRUE
FALSE    extra$consoleWidth=80
FALSE    extra$numThreadsPerCPU=2
FALSE    extra$numParThreads=0
FALSE #.....End of displaying extra .....
FALSE
FALSE -Progress:  0.0% done[>*****]\Progress:  4.2%
FALSE
FALSE #-----#

```

```

FALSE #      OPTIONS used in the MCMC inference      #
FALSE #-----#
FALSE #set extra$printOptions=0 to suppress the printing #
FALSE #-----#
FALSE
FALSE #.....Start of displaying 'MetaData' .....
FALSE   metadata=list()
FALSE   metadata$isRegularOrdered=FALSE
FALSE   metadata$season='harmonic'
FALSE   metadata$period=1.000000
FALSE   metadata$startTime=1984.50000
FALSE   metadata$deltaTime=0.08333
FALSE   metadata$whichDimIsTime=1
FALSE   metadata$missingValue=NaN
FALSE   metadata$maxMissingRate=0.7500
FALSE   metadata$deseasonalize=FALSE
FALSE   metadata$detrend=FALSE
FALSE #.....End of displaying MetaData .....
FALSE
FALSE #.....Start of displaying 'prior' .....
FALSE   prior=list()
FALSE   prior$modelPriorType=1
FALSE   prior$seasonMinOrder=1
FALSE   prior$seasonMaxOrder=5
FALSE   prior$seasonMinKnotNum=0
FALSE   prior$seasonMaxKnotNum=10
FALSE   prior$seasonMinSepDist=6
FALSE   prior$trendMinOrder=0
FALSE   prior$trendMaxOrder=1
FALSE   prior$trendMinKnotNum=0
FALSE   prior$trendMaxKnotNum=10
FALSE   prior$trendMinSepDist=6
FALSE   prior$K_MAX=132
FALSE   prior$precValue=1.500000
FALSE   prior$precPriorType='uniform'
FALSE #.....End of displaying pripr .....
FALSE
FALSE #.....Start of displaying 'mcmc' .....
FALSE   mcmc=list()
FALSE   mcmc$seed=0
FALSE   mcmc$samples=8000
FALSE   mcmc$thinningFactor=5
FALSE   mcmc$burnin=200
FALSE   mcmc$chainNumber=3
FALSE   mcmc$maxMoveStepSize=12
FALSE   mcmc$trendResamplingOrderProb=0.1000
FALSE   mcmc$seasonResamplingOrderProb=0.1700
FALSE   mcmc$credIntervalAlphaLevel=0.950
FALSE #.....End of displaying mcmc .....
FALSE
FALSE #.....Start of displaying 'extra' .....
FALSE   extra=list()
FALSE   extra$dumpInputData=TRUE
FALSE   extra$whichOutputDimIsTime=1

```

```

FALSE      extra$computeCredible=TRUE
FALSE      extra$fastCIComputation=TRUE
FALSE      extra$computeSeasonOrder=TRUE
FALSE      extra$computeTrendOrder=TRUE
FALSE      extra$computeSeasonChngpt=TRUE
FALSE      extra$computeTrendChngpt=TRUE
FALSE      extra$computeSeasonAmp=TRUE
FALSE      extra$computeTrendSlope=TRUE
FALSE      extra$tallyPosNegSeasonJump=FALSE
FALSE      extra$tallyPosNegTrendJump=TRUE
FALSE      extra$tallyIncDecTrendJump=TRUE
FALSE      extra$printProgressBar=TRUE
FALSE      extra$printOptions=TRUE
FALSE      extra$consoleWidth=80
FALSE      extra$numThreadsPerCPU=2
FALSE      extra$numParThreads=0
FALSE      #.....End of displaying extra .....
FALSE
FALSE      \Progress: 0.0% done[>*****] |Progress: 4.2%
FALSE
FALSE      #-----#
FALSE      #      OPTIONS used in the MCMC inference      #
FALSE      #-----#
FALSE      #set extra$printOptions=0 to suppress the printing #
FALSE      #-----#
FALSE
FALSE      #.....Start of displaying 'MetaData' .....
FALSE      metadata=list()
FALSE      metadata$isRegularOrdered=FALSE
FALSE      metadata$season='harmonic'
FALSE      metadata$period=1.000000
FALSE      metadata$startTime=1984.50000
FALSE      metadata$deltaTime=0.08333
FALSE      metadata$whichDimIsTime=1
FALSE      metadata$missingValue=NaN
FALSE      metadata$maxMissingRate=0.7500
FALSE      metadata$deseasonalize=FALSE
FALSE      metadata$detrend=FALSE
FALSE      #.....End of displaying MetaData .....
FALSE
FALSE      #.....Start of displaying 'prior' .....
FALSE      prior=list()
FALSE      prior$modelPriorType=1
FALSE      prior$seasonMinOrder=1
FALSE      prior$seasonMaxOrder=5
FALSE      prior$seasonMinKnotNum=0
FALSE      prior$seasonMaxKnotNum=10
FALSE      prior$seasonMinSepDist=6
FALSE      prior$trendMinOrder=0
FALSE      prior$trendMaxOrder=1
FALSE      prior$trendMinKnotNum=0
FALSE      prior$trendMaxKnotNum=10
FALSE      prior$trendMinSepDist=6
FALSE      prior$K_MAX=132

```

```

FALSE    prior$precValue=1.500000
FALSE    prior$precPriorType='uniform'
FALSE #.....End of displaying pripr .....
FALSE
FALSE #.....Start of displaying 'mcmc' .....
FALSE    mcmc=list()
FALSE    mcmc$seed=0
FALSE    mcmc$samples=8000
FALSE    mcmc$thinningFactor=5
FALSE    mcmc$burnin=200
FALSE    mcmc$chainNumber=3
FALSE    mcmc$maxMoveStepSize=12
FALSE    mcmc$trendResamplingOrderProb=0.1000
FALSE    mcmc$seasonResamplingOrderProb=0.1700
FALSE    mcmc$credIntervalAlphaLevel=0.950
FALSE #.....End of displaying mcmc .....
FALSE
FALSE #.....Start of displaying 'extra' .....
FALSE    extra=list()
FALSE    extra$dumpInputData=TRUE
FALSE    extra$whichOutputDimIsTime=1
FALSE    extra$computeCredible=TRUE
FALSE    extra$fastCIComputation=TRUE
FALSE    extra$computeSeasonOrder=TRUE
FALSE    extra$computeTrendOrder=TRUE
FALSE    extra$computeSeasonChngpt=TRUE
FALSE    extra$computeTrendChngpt=TRUE
FALSE    extra$computeSeasonAmp=TRUE
FALSE    extra$computeTrendSlope=TRUE
FALSE    extra$tallyPosNegSeasonJump=FALSE
FALSE    extra$tallyPosNegTrendJump=TRUE
FALSE    extra$tallyIncDecTrendJump=TRUE
FALSE    extra$printProgressBar=TRUE
FALSE    extra$printOptions=TRUE
FALSE    extra$consoleWidth=80
FALSE    extra$numThreadsPerCPU=2
FALSE    extra$numParThreads=0
FALSE #.....End of displaying extra .....
FALSE
FALSE |Progress:  0.0% done[>*****]/Progress:  4.2%
FALSE
FALSE #-----#
FALSE #      OPTIONS used in the MCMC inference      #
FALSE #-----#
FALSE #set extra$printOptions=0 to suppress the printing #
FALSE #-----#
FALSE
FALSE #.....Start of displaying 'MetaData' .....
FALSE    metadata=list()
FALSE    metadata$isRegularOrdered=FALSE
FALSE    metadata$season='harmonic'
FALSE    metadata$period=1.000000
FALSE    metadata$startTime=1984.41675
FALSE    metadata$deltaTime=0.08333

```



```

FALSE      metadata$whichDimIsTime=1
FALSE      metadata$missingValue=NaN
FALSE      metadata$maxMissingRate=0.7500
FALSE      metadata$deseasonalize=FALSE
FALSE      metadata$detrend=FALSE
FALSE #.....End of displaying MetaData .....
FALSE
FALSE #.....Start of displaying 'prior' .....
FALSE      prior=list()
FALSE      prior$modelPriorType=1
FALSE      prior$seasonMinOrder=1
FALSE      prior$seasonMaxOrder=5
FALSE      prior$seasonMinKnotNum=0
FALSE      prior$seasonMaxKnotNum=10
FALSE      prior$seasonMinSepDist=6
FALSE      prior$trendMinOrder=0
FALSE      prior$trendMaxOrder=1
FALSE      prior$trendMinKnotNum=0
FALSE      prior$trendMaxKnotNum=10
FALSE      prior$trendMinSepDist=6
FALSE      prior$K_MAX=132
FALSE      prior$precValue=1.500000
FALSE      prior$precPriorType='uniform'
FALSE #.....End of displaying pripr .....
FALSE
FALSE #.....Start of displaying 'mcmc' .....
FALSE      mcmc=list()
FALSE      mcmc$seed=0
FALSE      mcmc$samples=8000
FALSE      mcmc$thinningFactor=5
FALSE      mcmc$burnin=200
FALSE      mcmc$chainNumber=3
FALSE      mcmc$maxMoveStepSize=12
FALSE      mcmc$trendResamplingOrderProb=0.1000
FALSE      mcmc$seasonResamplingOrderProb=0.1700
FALSE      mcmc$credIntervalAlphaLevel=0.950
FALSE #.....End of displaying mcmc .....
FALSE
FALSE #.....Start of displaying 'extra' .....
FALSE      extra=list()
FALSE      extra$dumpInputData=TRUE
FALSE      extra$whichOutputDimIsTime=1
FALSE      extra$computeCredible=TRUE
FALSE      extra$fastCIComputation=TRUE
FALSE      extra$computeSeasonOrder=TRUE
FALSE      extra$computeTrendOrder=TRUE
FALSE      extra$computeSeasonChngpt=TRUE
FALSE      extra$computeTrendChngpt=TRUE
FALSE      extra$computeSeasonAmp=TRUE
FALSE      extra$computeTrendSlope=TRUE
FALSE      extra$tallyPosNegSeasonJump=FALSE
FALSE      extra$tallyPosNegTrendJump=TRUE
FALSE      extra$tallyIncDecTrendJump=TRUE
FALSE      extra$printProgressBar=TRUE

```

```

FALSE      extra$printOptions=TRUE
FALSE      extra$consoleWidth=80
FALSE      extra$numThreadsPerCPU=2
FALSE      extra$numParThreads=0
FALSE #.....End of displaying extra .....
FALSE
FALSE /Progress: 0.0% done[>*****]-Progress: 4.2%
FALSE
FALSE #-----#
FALSE #      OPTIONS used in the MCMC inference      #
FALSE #-----#
FALSE #set extra$printOptions=0 to suppress the printing #
FALSE #-----#
FALSE
FALSE #.....Start of displaying 'MetaData' .....
FALSE      metadata=list()
FALSE      metadata$isRegularOrdered=FALSE
FALSE      metadata$season='harmonic'
FALSE      metadata$period=1.000000
FALSE      metadata$startTime=1984.50000
FALSE      metadata$deltaTime=0.08333
FALSE      metadata$whichDimIsTime=1
FALSE      metadata$missingValue=NaN
FALSE      metadata$maxMissingRate=0.7500
FALSE      metadata$deseasonalize=FALSE
FALSE      metadata$detrend=FALSE
FALSE #.....End of displaying MetaData .....
FALSE
FALSE #.....Start of displaying 'prior' .....
FALSE      prior=list()
FALSE      prior$modelPriorType=1
FALSE      prior$seasonMinOrder=1
FALSE      prior$seasonMaxOrder=5
FALSE      prior$seasonMinKnotNum=0
FALSE      prior$seasonMaxKnotNum=10
FALSE      prior$seasonMinSepDist=6
FALSE      prior$trendMinOrder=0
FALSE      prior$trendMaxOrder=1
FALSE      prior$trendMinKnotNum=0
FALSE      prior$trendMaxKnotNum=10
FALSE      prior$trendMinSepDist=6
FALSE      prior$K_MAX=132
FALSE      prior$precValue=1.500000
FALSE      prior$precPriorType='uniform'
FALSE #.....End of displaying pripr .....
FALSE
FALSE #.....Start of displaying 'mcmc' .....
FALSE      mcmc=list()
FALSE      mcmc$seed=0
FALSE      mcmc$samples=8000
FALSE      mcmc$thinningFactor=5
FALSE      mcmc$burnin=200
FALSE      mcmc$chainNumber=3
FALSE      mcmc$maxMoveStepSize=12

```

```

FALSE      mcmc$trendResamplingOrderProb=0.1000
FALSE      mcmc$seasonResamplingOrderProb=0.1700
FALSE      mcmc$credIntervalAlphaLevel=0.950
FALSE #.....End of displaying mcmc .....
FALSE
FALSE #.....Start of displaying 'extra' .....
FALSE      extra=list()
FALSE      extra$dumpInputData=TRUE
FALSE      extra$whichOutputDimIsTime=1
FALSE      extra$computeCredible=TRUE
FALSE      extra$fastCIComputation=TRUE
FALSE      extra$computeSeasonOrder=TRUE
FALSE      extra$computeTrendOrder=TRUE
FALSE      extra$computeSeasonChngpt=TRUE
FALSE      extra$computeTrendChngpt=TRUE
FALSE      extra$computeSeasonAmp=TRUE
FALSE      extra$computeTrendSlope=TRUE
FALSE      extra$tallyPosNegSeasonJump=FALSE
FALSE      extra$tallyPosNegTrendJump=TRUE
FALSE      extra$tallyIncDecTrendJump=TRUE
FALSE      extra$printProgressBar=TRUE
FALSE      extra$printOptions=TRUE
FALSE      extra$consoleWidth=80
FALSE      extra$numThreadsPerCPU=2
FALSE      extra$numParThreads=0
FALSE #.....End of displaying extra .....
FALSE
FALSE -Progress: 0.0% done[>*****]\Progress: 4.2%
FALSE
FALSE #-----#
FALSE #      OPTIONS used in the MCMC inference      #
FALSE #-----#
FALSE #set extra$printOptions=0 to suppress the printing #
FALSE #-----#
FALSE
FALSE #.....Start of displaying 'MetaData' .....
FALSE      metadata=list()
FALSE      metadata$isRegularOrdered=FALSE
FALSE      metadata$season='harmonic'
FALSE      metadata$period=1.000000
FALSE      metadata$startTime=1984.50000
FALSE      metadata$deltaTime=0.08333
FALSE      metadata$whichDimIsTime=1
FALSE      metadata$missingValue=NaN
FALSE      metadata$maxMissingRate=0.7500
FALSE      metadata$deseasonalize=FALSE
FALSE      metadata$detrend=FALSE
FALSE #.....End of displaying MetaData .....
FALSE
FALSE #.....Start of displaying 'prior' .....
FALSE      prior=list()
FALSE      prior$modelPriorType=1
FALSE      prior$seasonMinOrder=1
FALSE      prior$seasonMaxOrder=5

```

```

FALSE    prior$seasonMinKnotNum=0
FALSE    prior$seasonMaxKnotNum=10
FALSE    prior$seasonMinSepDist=6
FALSE    prior$trendMinOrder=0
FALSE    prior$trendMaxOrder=1
FALSE    prior$trendMinKnotNum=0
FALSE    prior$trendMaxKnotNum=10
FALSE    prior$trendMinSepDist=6
FALSE    prior$K_MAX=132
FALSE    prior$precValue=1.500000
FALSE    prior$precPriorType='uniform'
FALSE #.....End of displaying pripr .....
FALSE
FALSE #.....Start of displaying 'mcmc' .....
FALSE    mcmc=list()
FALSE    mcmc$seed=0
FALSE    mcmc$samples=8000
FALSE    mcmc$thinningFactor=5
FALSE    mcmc$burnin=200
FALSE    mcmc$chainNumber=3
FALSE    mcmc$maxMoveStepSize=12
FALSE    mcmc$trendResamplingOrderProb=0.1000
FALSE    mcmc$seasonResamplingOrderProb=0.1700
FALSE    mcmc$credIntervalAlphaLevel=0.950
FALSE #.....End of displaying mcmc .....
FALSE
FALSE #.....Start of displaying 'extra' .....
FALSE    extra=list()
FALSE    extra$dumpInputData=TRUE
FALSE    extra$whichOutputDimIsTime=1
FALSE    extra$computeCredible=TRUE
FALSE    extra$fastCIComputation=TRUE
FALSE    extra$computeSeasonOrder=TRUE
FALSE    extra$computeTrendOrder=TRUE
FALSE    extra$computeSeasonChngpt=TRUE
FALSE    extra$computeTrendChngpt=TRUE
FALSE    extra$computeSeasonAmp=TRUE
FALSE    extra$computeTrendSlope=TRUE
FALSE    extra$tallyPosNegSeasonJump=FALSE
FALSE    extra$tallyPosNegTrendJump=TRUE
FALSE    extra$tallyIncDecTrendJump=TRUE
FALSE    extra$printProgressBar=TRUE
FALSE    extra$printOptions=TRUE
FALSE    extra$consoleWidth=80
FALSE    extra$numThreadsPerCPU=2
FALSE    extra$numParThreads=0
FALSE #.....End of displaying extra .....
FALSE
FALSE \Progress:  0.0% done[>*****]Progress:  4.2%
FALSE
FALSE #-----#
FALSE #      OPTIONS used in the MCMC inference      #
FALSE #-----#
FALSE #set extra$printOptions=0 to suppress the printing #

```

```

FALSE #-----#
FALSE
FALSE #.....Start of displaying 'MetaData' .....
FALSE     metadata=list()
FALSE     metadata$isRegularOrdered=FALSE
FALSE     metadata$season='harmonic'
FALSE     metadata$period=1.000000
FALSE     metadata$startTime=1984.25000
FALSE     metadata$deltaTime=0.08333
FALSE     metadata$whichDimIsTime=1
FALSE     metadata$missingValue=NaN
FALSE     metadata$maxMissingRate=0.7500
FALSE     metadata$deseasonalize=FALSE
FALSE     metadata$detrend=FALSE
FALSE #.....End of displaying MetaData .....
FALSE
FALSE #.....Start of displaying 'prior' .....
FALSE     prior=list()
FALSE     prior$modelPriorType=1
FALSE     prior$seasonMinOrder=1
FALSE     prior$seasonMaxOrder=5
FALSE     prior$seasonMinKnotNum=0
FALSE     prior$seasonMaxKnotNum=10
FALSE     prior$seasonMinSepDist=6
FALSE     prior$trendMinOrder=0
FALSE     prior$trendMaxOrder=1
FALSE     prior$trendMinKnotNum=0
FALSE     prior$trendMaxKnotNum=10
FALSE     prior$trendMinSepDist=6
FALSE     prior$K_MAX=132
FALSE     prior$precValue=1.500000
FALSE     prior$precPriorType='uniform'
FALSE #.....End of displaying pripr .....
FALSE
FALSE #.....Start of displaying 'mcmc' .....
FALSE     mcmc=list()
FALSE     mcmc$seed=0
FALSE     mcmc$samples=8000
FALSE     mcmc$thinningFactor=5
FALSE     mcmc$burnin=200
FALSE     mcmc$chainNumber=3
FALSE     mcmc$maxMoveStepSize=12
FALSE     mcmc$trendResamplingOrderProb=0.1000
FALSE     mcmc$seasonResamplingOrderProb=0.1700
FALSE     mcmc$credIntervalAlphaLevel=0.950
FALSE #.....End of displaying mcmc .....
FALSE
FALSE #.....Start of displaying 'extra' .....
FALSE     extra=list()
FALSE     extra$dumpInputData=TRUE
FALSE     extra$whichOutputDimIsTime=1
FALSE     extra$computeCredible=TRUE
FALSE     extra$fastCIComputation=TRUE
FALSE     extra$computeSeasonOrder=TRUE

```

```

FALSE      extra$computeTrendOrder=TRUE
FALSE      extra$computeSeasonChngpt=TRUE
FALSE      extra$computeTrendChngpt=TRUE
FALSE      extra$computeSeasonAmp=TRUE
FALSE      extra$computeTrendSlope=TRUE
FALSE      extra$tallyPosNegSeasonJump=FALSE
FALSE      extra$tallyPosNegTrendJump=TRUE
FALSE      extra$tallyIncDecTrendJump=TRUE
FALSE      extra$printProgressBar=TRUE
FALSE      extra$printOptions=TRUE
FALSE      extra$consoleWidth=80
FALSE      extra$numThreadsPerCPU=2
FALSE      extra$numParThreads=0
FALSE #.....End of displaying extra .....
FALSE
FALSE |Progress:  0.0% done[>*****]/Progress:  4.2%
FALSE
FALSE #-----#
FALSE #      OPTIONS used in the MCMC inference      #
FALSE #-----#
FALSE #set extra$printOptions=0 to suppress the printing #
FALSE #-----#
FALSE
FALSE #.....Start of displaying 'MetaData' .....
FALSE      metadata=list()
FALSE      metadata$isRegularOrdered=FALSE
FALSE      metadata$season='harmonic'
FALSE      metadata$period=1.000000
FALSE      metadata$startTime=1984.58337
FALSE      metadata$deltaTime=0.08333
FALSE      metadata$whichDimIsTime=1
FALSE      metadata$missingValue=NaN
FALSE      metadata$maxMissingRate=0.7500
FALSE      metadata$deseasonalize=FALSE
FALSE      metadata$detrend=FALSE
FALSE #.....End of displaying MetaData .....
FALSE
FALSE #.....Start of displaying 'prior' .....
FALSE      prior=list()
FALSE      prior$modelPriorType=1
FALSE      prior$seasonMinOrder=1
FALSE      prior$seasonMaxOrder=5
FALSE      prior$seasonMinKnotNum=0
FALSE      prior$seasonMaxKnotNum=10
FALSE      prior$seasonMinSepDist=6
FALSE      prior$trendMinOrder=0
FALSE      prior$trendMaxOrder=1
FALSE      prior$trendMinKnotNum=0
FALSE      prior$trendMaxKnotNum=10
FALSE      prior$trendMinSepDist=6
FALSE      prior$K_MAX=132
FALSE      prior$precValue=1.500000
FALSE      prior$precPriorType='uniform'
FALSE #.....End of displaying pripr .....

```

```

FALSE
FALSE #.....Start of displaying 'mcmc' .....
FALSE   mcmc=list()
FALSE   mcmc$seed=0
FALSE   mcmc$samples=8000
FALSE   mcmc$thinningFactor=5
FALSE   mcmc$burnin=200
FALSE   mcmc$chainNumber=3
FALSE   mcmc$maxMoveStepSize=12
FALSE   mcmc$trendResamplingOrderProb=0.1000
FALSE   mcmc$seasonResamplingOrderProb=0.1700
FALSE   mcmc$credIntervalAlphaLevel=0.950
FALSE #.....End of displaying mcmc .....
FALSE
FALSE #.....Start of displaying 'extra' .....
FALSE   extra=list()
FALSE   extra$dumpInputData=TRUE
FALSE   extra$whichOutputDimIsTime=1
FALSE   extra$computeCredible=TRUE
FALSE   extra$fastCIComputation=TRUE
FALSE   extra$computeSeasonOrder=TRUE
FALSE   extra$computeTrendOrder=TRUE
FALSE   extra$computeSeasonChngpt=TRUE
FALSE   extra$computeTrendChngpt=TRUE
FALSE   extra$computeSeasonAmp=TRUE
FALSE   extra$computeTrendSlope=TRUE
FALSE   extra$tallyPosNegSeasonJump=FALSE
FALSE   extra$tallyPosNegTrendJump=TRUE
FALSE   extra$tallyIncDecTrendJump=TRUE
FALSE   extra$printProgressBar=TRUE
FALSE   extra$printOptions=TRUE
FALSE   extra$consoleWidth=80
FALSE   extra$numThreadsPerCPU=2
FALSE   extra$numParThreads=0
FALSE #.....End of displaying extra .....
FALSE
FALSE /Progress: 0.0% done[>*****]-Progress: 4.2%
FALSE
FALSE #-----#
FALSE #   OPTIONS used in the MCMC inference   #
FALSE #-----#
FALSE #set extra$printOptions=0 to suppress the printing #
FALSE #-----#
FALSE
FALSE #.....Start of displaying 'MetaData' .....
FALSE   metadata=list()
FALSE   metadata$isRegularOrdered=FALSE
FALSE   metadata$season='harmonic'
FALSE   metadata$period=1.000000
FALSE   metadata$startTime=1984.41675
FALSE   metadata$deltaTime=0.08333
FALSE   metadata$whichDimIsTime=1
FALSE   metadata$missingValue=NaN
FALSE   metadata$maxMissingRate=0.7500

```

```

FALSE      metadata$deseasonalize=FALSE
FALSE      metadata$detrend=FALSE
FALSE #.....End of displaying MetaData .....
FALSE
FALSE #.....Start of displaying 'prior' .....
FALSE      prior=list()
FALSE      prior$modelPriorType=1
FALSE      prior$seasonMinOrder=1
FALSE      prior$seasonMaxOrder=5
FALSE      prior$seasonMinKnotNum=0
FALSE      prior$seasonMaxKnotNum=10
FALSE      prior$seasonMinSepDist=6
FALSE      prior$trendMinOrder=0
FALSE      prior$trendMaxOrder=1
FALSE      prior$trendMinKnotNum=0
FALSE      prior$trendMaxKnotNum=10
FALSE      prior$trendMinSepDist=6
FALSE      prior$K_MAX=132
FALSE      prior$precValue=1.500000
FALSE      prior$precPriorType='uniform'
FALSE #.....End of displaying pripr .....
FALSE
FALSE #.....Start of displaying 'mcmc' .....
FALSE      mcmc=list()
FALSE      mcmc$seed=0
FALSE      mcmc$samples=8000
FALSE      mcmc$thinningFactor=5
FALSE      mcmc$burnin=200
FALSE      mcmc$chainNumber=3
FALSE      mcmc$maxMoveStepSize=12
FALSE      mcmc$trendResamplingOrderProb=0.1000
FALSE      mcmc$seasonResamplingOrderProb=0.1700
FALSE      mcmc$credIntervalAlphaLevel=0.950
FALSE #.....End of displaying mcmc .....
FALSE
FALSE #.....Start of displaying 'extra' .....
FALSE      extra=list()
FALSE      extra$dumpInputData=TRUE
FALSE      extra$whichOutputDimIsTime=1
FALSE      extra$computeCredible=TRUE
FALSE      extra$fastCIComputation=TRUE
FALSE      extra$computeSeasonOrder=TRUE
FALSE      extra$computeTrendOrder=TRUE
FALSE      extra$computeSeasonChngpt=TRUE
FALSE      extra$computeTrendChngpt=TRUE
FALSE      extra$computeSeasonAmp=TRUE
FALSE      extra$computeTrendSlope=TRUE
FALSE      extra$tallyPosNegSeasonJump=FALSE
FALSE      extra$tallyPosNegTrendJump=TRUE
FALSE      extra$tallyIncDecTrendJump=TRUE
FALSE      extra$printProgressBar=TRUE
FALSE      extra$printOptions=TRUE
FALSE      extra$consoleWidth=80
FALSE      extra$numThreadsPerCPU=2

```



```

FALSE      extra$numParThreads=0
FALSE #.....End of displaying extra .....
FALSE
FALSE -Progress: 0.0% done[>*****\Progress: 4.2%
FALSE
FALSE #-----#
FALSE #      OPTIONS used in the MCMC inference      #
FALSE #-----#
FALSE #set extra$printOptions=0 to suppress the printing #
FALSE #-----#
FALSE
FALSE #.....Start of displaying 'MetaData' .....
FALSE      metadata=list()
FALSE      metadata$isRegularOrdered=FALSE
FALSE      metadata$season='harmonic'
FALSE      metadata$period=1.000000
FALSE      metadata$startTime=1984.25000
FALSE      metadata$deltaTime=0.08333
FALSE      metadata$whichDimIsTime=1
FALSE      metadata$missingValue=NaN
FALSE      metadata$maxMissingRate=0.7500
FALSE      metadata$deseasonalize=FALSE
FALSE      metadata$detrend=FALSE
FALSE #.....End of displaying MetaData .....
FALSE
FALSE #.....Start of displaying 'prior' .....
FALSE      prior=list()
FALSE      prior$modelPriorType=1
FALSE      prior$seasonMinOrder=1
FALSE      prior$seasonMaxOrder=5
FALSE      prior$seasonMinKnotNum=0
FALSE      prior$seasonMaxKnotNum=10
FALSE      prior$seasonMinSepDist=6
FALSE      prior$trendMinOrder=0
FALSE      prior$trendMaxOrder=1
FALSE      prior$trendMinKnotNum=0
FALSE      prior$trendMaxKnotNum=10
FALSE      prior$trendMinSepDist=6
FALSE      prior$K_MAX=132
FALSE      prior$precValue=1.500000
FALSE      prior$precPriorType='uniform'
FALSE #.....End of displaying pripr .....
FALSE
FALSE #.....Start of displaying 'mcmc' .....
FALSE      mcmc=list()
FALSE      mcmc$seed=0
FALSE      mcmc$samples=8000
FALSE      mcmc$thinningFactor=5
FALSE      mcmc$burnin=200
FALSE      mcmc$chainNumber=3
FALSE      mcmc$maxMoveStepSize=12
FALSE      mcmc$trendResamplingOrderProb=0.1000
FALSE      mcmc$seasonResamplingOrderProb=0.1700
FALSE      mcmc$credIntervalAlphaLevel=0.950

```

```

FALSE #.....End of displaying mcmc .....
FALSE
FALSE #.....Start of displaying 'extra' .....
FALSE     extra=list()
FALSE     extra$dumpInputData=TRUE
FALSE     extra$whichOutputDimIsTime=1
FALSE     extra$computeCredible=TRUE
FALSE     extra$fastCIComputation=TRUE
FALSE     extra$computeSeasonOrder=TRUE
FALSE     extra$computeTrendOrder=TRUE
FALSE     extra$computeSeasonChngpt=TRUE
FALSE     extra$computeTrendChngpt=TRUE
FALSE     extra$computeSeasonAmp=TRUE
FALSE     extra$computeTrendSlope=TRUE
FALSE     extra$tallyPosNegSeasonJump=FALSE
FALSE     extra$tallyPosNegTrendJump=TRUE
FALSE     extra$tallyIncDecTrendJump=TRUE
FALSE     extra$printProgressBar=TRUE
FALSE     extra$printOptions=TRUE
FALSE     extra$consoleWidth=80
FALSE     extra$numThreadsPerCPU=2
FALSE     extra$numParThreads=0
FALSE #.....End of displaying extra .....
FALSE
FALSE \Progress: 0.0% done[>*****] |Progress: 4.2% c
FALSE
FALSE #-----#
FALSE #     OPTIONS used in the MCMC inference     #
FALSE #-----#
FALSE #set extra$printOptions=0 to suppress the printing #
FALSE #-----#
FALSE
FALSE #.....Start of displaying 'MetaData' .....
FALSE     metadata=list()
FALSE     metadata$isRegularOrdered=FALSE
FALSE     metadata$season='harmonic'
FALSE     metadata$period=1.000000
FALSE     metadata$startTime=1984.41675
FALSE     metadata$deltaTime=0.08333
FALSE     metadata$whichDimIsTime=1
FALSE     metadata$missingValue=NaN
FALSE     metadata$maxMissingRate=0.7500
FALSE     metadata$deseasonalize=FALSE
FALSE     metadata$detrend=FALSE
FALSE #.....End of displaying MetaData .....
FALSE
FALSE #.....Start of displaying 'prior' .....
FALSE     prior=list()
FALSE     prior$modelPriorType=1
FALSE     prior$seasonMinOrder=1
FALSE     prior$seasonMaxOrder=5
FALSE     prior$seasonMinKnotNum=0
FALSE     prior$seasonMaxKnotNum=10
FALSE     prior$seasonMinSepDist=6

```

```

FALSE    prior$trendMinOrder=0
FALSE    prior$trendMaxOrder=1
FALSE    prior$trendMinKnotNum=0
FALSE    prior$trendMaxKnotNum=10
FALSE    prior$trendMinSepDist=6
FALSE    prior$K_MAX=132
FALSE    prior$precValue=1.500000
FALSE    prior$precPriorType='uniform'
FALSE #.....End of displaying pripr .....
FALSE
FALSE #.....Start of displaying 'mcmc' .....
FALSE    mcmc=list()
FALSE    mcmc$seed=0
FALSE    mcmc$samples=8000
FALSE    mcmc$thinningFactor=5
FALSE    mcmc$burnin=200
FALSE    mcmc$chainNumber=3
FALSE    mcmc$maxMoveStepSize=12
FALSE    mcmc$trendResamplingOrderProb=0.1000
FALSE    mcmc$seasonResamplingOrderProb=0.1700
FALSE    mcmc$credIntervalAlphaLevel=0.950
FALSE #.....End of displaying mcmc .....
FALSE
FALSE #.....Start of displaying 'extra' .....
FALSE    extra=list()
FALSE    extra$dumpInputData=TRUE
FALSE    extra$whichOutputDimIsTime=1
FALSE    extra$computeCredible=TRUE
FALSE    extra$fastCIComputation=TRUE
FALSE    extra$computeSeasonOrder=TRUE
FALSE    extra$computeTrendOrder=TRUE
FALSE    extra$computeSeasonChngpt=TRUE
FALSE    extra$computeTrendChngpt=TRUE
FALSE    extra$computeSeasonAmp=TRUE
FALSE    extra$computeTrendSlope=TRUE
FALSE    extra$tallyPosNegSeasonJump=FALSE
FALSE    extra$tallyPosNegTrendJump=TRUE
FALSE    extra$tallyIncDecTrendJump=TRUE
FALSE    extra$printProgressBar=TRUE
FALSE    extra$printOptions=TRUE
FALSE    extra$consoleWidth=80
FALSE    extra$numThreadsPerCPU=2
FALSE    extra$numParThreads=0
FALSE #.....End of displaying extra .....
FALSE
FALSE |Progress:  0.0% done[>*****]/Progress:  4.2%
FALSE
FALSE #-----#
FALSE #      OPTIONS used in the MCMC inference      #
FALSE #-----#
FALSE #set extra$printOptions=0 to suppress the printing #
FALSE #-----#
FALSE
FALSE #.....Start of displaying 'MetaData' .....

```

```

FALSE      metadata=list()
FALSE      metadata$isRegularOrdered=FALSE
FALSE      metadata$season='harmonic'
FALSE      metadata$period=1.000000
FALSE      metadata$startTime=1984.41675
FALSE      metadata$deltaTime=0.08333
FALSE      metadata$whichDimIsTime=1
FALSE      metadata$missingValue=NaN
FALSE      metadata$maxMissingRate=0.7500
FALSE      metadata$deseasonalize=FALSE
FALSE      metadata$detrend=FALSE
FALSE #.....End of displaying MetaData .....
FALSE
FALSE #.....Start of displaying 'prior' .....
FALSE      prior=list()
FALSE      prior$modelPriorType=1
FALSE      prior$seasonMinOrder=1
FALSE      prior$seasonMaxOrder=5
FALSE      prior$seasonMinKnotNum=0
FALSE      prior$seasonMaxKnotNum=10
FALSE      prior$seasonMinSepDist=6
FALSE      prior$trendMinOrder=0
FALSE      prior$trendMaxOrder=1
FALSE      prior$trendMinKnotNum=0
FALSE      prior$trendMaxKnotNum=10
FALSE      prior$trendMinSepDist=6
FALSE      prior$K_MAX=132
FALSE      prior$precValue=1.500000
FALSE      prior$precPriorType='uniform'
FALSE #.....End of displaying pripr .....
FALSE
FALSE #.....Start of displaying 'mcmc' .....
FALSE      mcmc=list()
FALSE      mcmc$seed=0
FALSE      mcmc$samples=8000
FALSE      mcmc$thinningFactor=5
FALSE      mcmc$burnin=200
FALSE      mcmc$chainNumber=3
FALSE      mcmc$maxMoveStepSize=12
FALSE      mcmc$trendResamplingOrderProb=0.1000
FALSE      mcmc$seasonResamplingOrderProb=0.1700
FALSE      mcmc$credIntervalAlphaLevel=0.950
FALSE #.....End of displaying mcmc .....
FALSE
FALSE #.....Start of displaying 'extra' .....
FALSE      extra=list()
FALSE      extra$dumpInputData=TRUE
FALSE      extra$whichOutputDimIsTime=1
FALSE      extra$computeCredible=TRUE
FALSE      extra$fastCIComputation=TRUE
FALSE      extra$computeSeasonOrder=TRUE
FALSE      extra$computeTrendOrder=TRUE
FALSE      extra$computeSeasonChngpt=TRUE
FALSE      extra$computeTrendChngpt=TRUE

```

```

FALSE      extra$computeSeasonAmp=TRUE
FALSE      extra$computeTrendSlope=TRUE
FALSE      extra$tallyPosNegSeasonJump=FALSE
FALSE      extra$tallyPosNegTrendJump=TRUE
FALSE      extra$tallyIncDecTrendJump=TRUE
FALSE      extra$printProgressBar=TRUE
FALSE      extra$printOptions=TRUE
FALSE      extra$consoleWidth=80
FALSE      extra$numThreadsPerCPU=2
FALSE      extra$numParThreads=0
FALSE #.....End of displaying extra .....
FALSE
FALSE /Progress: 0.0% done[>*****]-Progress: 4.2%
FALSE
FALSE #-----#
FALSE #      OPTIONS used in the MCMC inference      #
FALSE #-----#
FALSE #set extra$printOptions=0 to suppress the printing #
FALSE #-----#
FALSE
FALSE #.....Start of displaying 'MetaData' .....
FALSE      metadata=list()
FALSE      metadata$isRegularOrdered=FALSE
FALSE      metadata$season='harmonic'
FALSE      metadata$period=1.000000
FALSE      metadata$startTime=1984.33337
FALSE      metadata$deltaTime=0.08333
FALSE      metadata$whichDimIsTime=1
FALSE      metadata$missingValue=NaN
FALSE      metadata$maxMissingRate=0.7500
FALSE      metadata$deseasonalize=FALSE
FALSE      metadata$detrend=FALSE
FALSE #.....End of displaying MetaData .....
FALSE
FALSE #.....Start of displaying 'prior' .....
FALSE      prior=list()
FALSE      prior$modelPriorType=1
FALSE      prior$seasonMinOrder=1
FALSE      prior$seasonMaxOrder=5
FALSE      prior$seasonMinKnotNum=0
FALSE      prior$seasonMaxKnotNum=10
FALSE      prior$seasonMinSepDist=6
FALSE      prior$trendMinOrder=0
FALSE      prior$trendMaxOrder=1
FALSE      prior$trendMinKnotNum=0
FALSE      prior$trendMaxKnotNum=10
FALSE      prior$trendMinSepDist=6
FALSE      prior$K_MAX=132
FALSE      prior$precValue=1.500000
FALSE      prior$precPriorType='uniform'
FALSE #.....End of displaying pripr .....
FALSE
FALSE #.....Start of displaying 'mcmc' .....
FALSE      mcmc=list()

```

```

FALSE      mcmc$seed=0
FALSE      mcmc$samples=8000
FALSE      mcmc$thinningFactor=5
FALSE      mcmc$burnin=200
FALSE      mcmc$chainNumber=3
FALSE      mcmc$maxMoveStepSize=12
FALSE      mcmc$trendResamplingOrderProb=0.1000
FALSE      mcmc$seasonResamplingOrderProb=0.1700
FALSE      mcmc$credIntervalAlphaLevel=0.950
FALSE #.....End of displaying mcmc .....
FALSE
FALSE #.....Start of displaying 'extra' .....
FALSE      extra=list()
FALSE      extra$dumpInputData=TRUE
FALSE      extra$whichOutputDimIsTime=1
FALSE      extra$computeCredible=TRUE
FALSE      extra$fastCIComputation=TRUE
FALSE      extra$computeSeasonOrder=TRUE
FALSE      extra$computeTrendOrder=TRUE
FALSE      extra$computeSeasonChngpt=TRUE
FALSE      extra$computeTrendChngpt=TRUE
FALSE      extra$computeSeasonAmp=TRUE
FALSE      extra$computeTrendSlope=TRUE
FALSE      extra$tallyPosNegSeasonJump=FALSE
FALSE      extra$tallyPosNegTrendJump=TRUE
FALSE      extra$tallyIncDecTrendJump=TRUE
FALSE      extra$printProgressBar=TRUE
FALSE      extra$printOptions=TRUE
FALSE      extra$consoleWidth=80
FALSE      extra$numThreadsPerCPU=2
FALSE      extra$numParThreads=0
FALSE #.....End of displaying extra .....
FALSE
FALSE -Progress:  0.0% done[>*****]\Progress:  4.2%
FALSE
FALSE #-----#
FALSE #      OPTIONS used in the MCMC inference      #
FALSE #-----#
FALSE #set extra$printOptions=0 to suppress the printing #
FALSE #-----#
FALSE
FALSE #.....Start of displaying 'MetaData' .....
FALSE      metadata=list()
FALSE      metadata$isRegularOrdered=FALSE
FALSE      metadata$season='harmonic'
FALSE      metadata$period=1.000000
FALSE      metadata$startTime=1984.41675
FALSE      metadata$deltaTime=0.08333
FALSE      metadata$whichDimIsTime=1
FALSE      metadata$missingValue=NaN
FALSE      metadata$maxMissingRate=0.7500
FALSE      metadata$deseasonalize=FALSE
FALSE      metadata$detrend=FALSE
FALSE #.....End of displaying MetaData .....

```

```

FALSE
FALSE #.....Start of displaying 'prior' .....
FALSE   prior=list()
FALSE   prior$modelPriorType=1
FALSE   prior$seasonMinOrder=1
FALSE   prior$seasonMaxOrder=5
FALSE   prior$seasonMinKnotNum=0
FALSE   prior$seasonMaxKnotNum=10
FALSE   prior$seasonMinSepDist=6
FALSE   prior$trendMinOrder=0
FALSE   prior$trendMaxOrder=1
FALSE   prior$trendMinKnotNum=0
FALSE   prior$trendMaxKnotNum=10
FALSE   prior$trendMinSepDist=6
FALSE   prior$K_MAX=132
FALSE   prior$precValue=1.500000
FALSE   prior$precPriorType='uniform'
FALSE #.....End of displaying pripr .....
FALSE
FALSE #.....Start of displaying 'mcmc' .....
FALSE   mcmc=list()
FALSE   mcmc$seed=0
FALSE   mcmc$samples=8000
FALSE   mcmc$thinningFactor=5
FALSE   mcmc$burnin=200
FALSE   mcmc$chainNumber=3
FALSE   mcmc$maxMoveStepSize=12
FALSE   mcmc$trendResamplingOrderProb=0.1000
FALSE   mcmc$seasonResamplingOrderProb=0.1700
FALSE   mcmc$credIntervalAlphaLevel=0.950
FALSE #.....End of displaying mcmc .....
FALSE
FALSE #.....Start of displaying 'extra' .....
FALSE   extra=list()
FALSE   extra$dumpInputData=TRUE
FALSE   extra$whichOutputDimIsTime=1
FALSE   extra$computeCredible=TRUE
FALSE   extra$fastCIComputation=TRUE
FALSE   extra$computeSeasonOrder=TRUE
FALSE   extra$computeTrendOrder=TRUE
FALSE   extra$computeSeasonChngpt=TRUE
FALSE   extra$computeTrendChngpt=TRUE
FALSE   extra$computeSeasonAmp=TRUE
FALSE   extra$computeTrendSlope=TRUE
FALSE   extra$tallyPosNegSeasonJump=FALSE
FALSE   extra$tallyPosNegTrendJump=TRUE
FALSE   extra$tallyIncDecTrendJump=TRUE
FALSE   extra$printProgressBar=TRUE
FALSE   extra$printOptions=TRUE
FALSE   extra$consoleWidth=80
FALSE   extra$numThreadsPerCPU=2
FALSE   extra$numParThreads=0
FALSE #.....End of displaying extra .....
FALSE

```

```

FALSE \Progress: 0.0% done[>*****]Progress: 4.2%
FALSE
FALSE #-----#
FALSE #      OPTIONS used in the MCMC inference      #
FALSE #-----#
FALSE #set extra$printOptions=0 to suppress the printing #
FALSE #-----#
FALSE
FALSE #.....Start of displaying 'MetaData' .....
FALSE   metadata=list()
FALSE   metadata$isRegularOrdered=FALSE
FALSE   metadata$season='harmonic'
FALSE   metadata$period=1.000000
FALSE   metadata$startTime=1984.41675
FALSE   metadata$deltaTime=0.08333
FALSE   metadata$whichDimIsTime=1
FALSE   metadata$missingValue=NaN
FALSE   metadata$maxMissingRate=0.7500
FALSE   metadata$deseasonalize=FALSE
FALSE   metadata$detrend=FALSE
FALSE #.....End of displaying MetaData .....
FALSE
FALSE #.....Start of displaying 'prior' .....
FALSE   prior=list()
FALSE   prior$modelPriorType=1
FALSE   prior$seasonMinOrder=1
FALSE   prior$seasonMaxOrder=5
FALSE   prior$seasonMinKnotNum=0
FALSE   prior$seasonMaxKnotNum=10
FALSE   prior$seasonMinSepDist=6
FALSE   prior$trendMinOrder=0
FALSE   prior$trendMaxOrder=1
FALSE   prior$trendMinKnotNum=0
FALSE   prior$trendMaxKnotNum=10
FALSE   prior$trendMinSepDist=6
FALSE   prior$K_MAX=132
FALSE   prior$precValue=1.500000
FALSE   prior$precPriorType='uniform'
FALSE #.....End of displaying pripr .....
FALSE
FALSE #.....Start of displaying 'mcmc' .....
FALSE   mcmc=list()
FALSE   mcmc$seed=0
FALSE   mcmc$samples=8000
FALSE   mcmc$thinningFactor=5
FALSE   mcmc$burnin=200
FALSE   mcmc$chainNumber=3
FALSE   mcmc$maxMoveStepSize=12
FALSE   mcmc$trendResamplingOrderProb=0.1000
FALSE   mcmc$seasonResamplingOrderProb=0.1700
FALSE   mcmc$credIntervalAlphaLevel=0.950
FALSE #.....End of displaying mcmc .....
FALSE
FALSE #.....Start of displaying 'extra' .....

```



```

FALSE      extra=list()
FALSE      extra$dumpInputData=TRUE
FALSE      extra$whichOutputDimIsTime=1
FALSE      extra$computeCredible=TRUE
FALSE      extra$fastCIComputation=TRUE
FALSE      extra$computeSeasonOrder=TRUE
FALSE      extra$computeTrendOrder=TRUE
FALSE      extra$computeSeasonChngpt=TRUE
FALSE      extra$computeTrendChngpt=TRUE
FALSE      extra$computeSeasonAmp=TRUE
FALSE      extra$computeTrendSlope=TRUE
FALSE      extra$tallyPosNegSeasonJump=FALSE
FALSE      extra$tallyPosNegTrendJump=TRUE
FALSE      extra$tallyIncDecTrendJump=TRUE
FALSE      extra$printProgressBar=TRUE
FALSE      extra$printOptions=TRUE
FALSE      extra$consoleWidth=80
FALSE      extra$numThreadsPerCPU=2
FALSE      extra$numParThreads=0
FALSE      #.....End of displaying extra .....
FALSE
FALSE      |Progress:  0.0% done[>*****]/Progress:  4.2%
FALSE
FALSE      #-----#
FALSE      #      OPTIONS used in the MCMC inference      #
FALSE      #-----#
FALSE      #set extra$printOptions=0 to suppress the printing #
FALSE      #-----#
FALSE
FALSE      #.....Start of displaying 'MetaData' .....
FALSE      metadata=list()
FALSE      metadata$isRegularOrdered=FALSE
FALSE      metadata$season='harmonic'
FALSE      metadata$period=1.000000
FALSE      metadata$startTime=1984.41675
FALSE      metadata$deltaTime=0.08333
FALSE      metadata$whichDimIsTime=1
FALSE      metadata$missingValue=NaN
FALSE      metadata$maxMissingRate=0.7500
FALSE      metadata$deseasonalize=FALSE
FALSE      metadata$detrend=FALSE
FALSE      #.....End of displaying MetaData .....
FALSE
FALSE      #.....Start of displaying 'prior' .....
FALSE      prior=list()
FALSE      prior$modelPriorType=1
FALSE      prior$seasonMinOrder=1
FALSE      prior$seasonMaxOrder=5
FALSE      prior$seasonMinKnotNum=0
FALSE      prior$seasonMaxKnotNum=10
FALSE      prior$seasonMinSepDist=6
FALSE      prior$trendMinOrder=0
FALSE      prior$trendMaxOrder=1
FALSE      prior$trendMinKnotNum=0

```

```

FALSE    prior$trendMaxKnotNum=10
FALSE    prior$trendMinSepDist=6
FALSE    prior$K_MAX=132
FALSE    prior$precValue=1.500000
FALSE    prior$precPriorType='uniform'
FALSE #.....End of displaying pripr .....
FALSE
FALSE #.....Start of displaying 'mcmc' .....
FALSE    mcmc=list()
FALSE    mcmc$seed=0
FALSE    mcmc$samples=8000
FALSE    mcmc$thinningFactor=5
FALSE    mcmc$burnin=200
FALSE    mcmc$chainNumber=3
FALSE    mcmc$maxMoveStepSize=12
FALSE    mcmc$trendResamplingOrderProb=0.1000
FALSE    mcmc$seasonResamplingOrderProb=0.1700
FALSE    mcmc$credIntervalAlphaLevel=0.950
FALSE #.....End of displaying mcmc .....
FALSE
FALSE #.....Start of displaying 'extra' .....
FALSE    extra=list()
FALSE    extra$dumpInputData=TRUE
FALSE    extra$whichOutputDimIsTime=1
FALSE    extra$computeCredible=TRUE
FALSE    extra$fastCIComputation=TRUE
FALSE    extra$computeSeasonOrder=TRUE
FALSE    extra$computeTrendOrder=TRUE
FALSE    extra$computeSeasonChngpt=TRUE
FALSE    extra$computeTrendChngpt=TRUE
FALSE    extra$computeSeasonAmp=TRUE
FALSE    extra$computeTrendSlope=TRUE
FALSE    extra$tallyPosNegSeasonJump=FALSE
FALSE    extra$tallyPosNegTrendJump=TRUE
FALSE    extra$tallyIncDecTrendJump=TRUE
FALSE    extra$printProgressBar=TRUE
FALSE    extra$printOptions=TRUE
FALSE    extra$consoleWidth=80
FALSE    extra$numThreadsPerCPU=2
FALSE    extra$numParThreads=0
FALSE #.....End of displaying extra .....
FALSE
FALSE /Progress:  0.0% done[>*****]-Progress:  4.2%
FALSE
FALSE #-----#
FALSE #      OPTIONS used in the MCMC inference      #
FALSE #-----#
FALSE #set extra$printOptions=0 to suppress the printing #
FALSE #-----#
FALSE
FALSE #.....Start of displaying 'MetaData' .....
FALSE    metadata=list()
FALSE    metadata$isRegularOrdered=FALSE
FALSE    metadata$season='harmonic'

```

```

FALSE      metadata$period=1.000000
FALSE      metadata$startTime=1984.33337
FALSE      metadata$deltaTime=0.08333
FALSE      metadata$whichDimIsTime=1
FALSE      metadata$missingValue=NaN
FALSE      metadata$maxMissingRate=0.7500
FALSE      metadata$deseasonalize=FALSE
FALSE      metadata$detrend=FALSE
FALSE #.....End of displaying MetaData .....
FALSE
FALSE #.....Start of displaying 'prior' .....
FALSE      prior=list()
FALSE      prior$modelPriorType=1
FALSE      prior$seasonMinOrder=1
FALSE      prior$seasonMaxOrder=5
FALSE      prior$seasonMinKnotNum=0
FALSE      prior$seasonMaxKnotNum=10
FALSE      prior$seasonMinSepDist=6
FALSE      prior$trendMinOrder=0
FALSE      prior$trendMaxOrder=1
FALSE      prior$trendMinKnotNum=0
FALSE      prior$trendMaxKnotNum=10
FALSE      prior$trendMinSepDist=6
FALSE      prior$K_MAX=132
FALSE      prior$precValue=1.500000
FALSE      prior$precPriorType='uniform'
FALSE #.....End of displaying pripr .....
FALSE
FALSE #.....Start of displaying 'mcmc' .....
FALSE      mcmc=list()
FALSE      mcmc$seed=0
FALSE      mcmc$samples=8000
FALSE      mcmc$thinningFactor=5
FALSE      mcmc$burnin=200
FALSE      mcmc$chainNumber=3
FALSE      mcmc$maxMoveStepSize=12
FALSE      mcmc$trendResamplingOrderProb=0.1000
FALSE      mcmc$seasonResamplingOrderProb=0.1700
FALSE      mcmc$credIntervalAlphaLevel=0.950
FALSE #.....End of displaying mcmc .....
FALSE
FALSE #.....Start of displaying 'extra' .....
FALSE      extra=list()
FALSE      extra$dumpInputData=TRUE
FALSE      extra$whichOutputDimIsTime=1
FALSE      extra$computeCredible=TRUE
FALSE      extra$fastCIComputation=TRUE
FALSE      extra$computeSeasonOrder=TRUE
FALSE      extra$computeTrendOrder=TRUE
FALSE      extra$computeSeasonChngpt=TRUE
FALSE      extra$computeTrendChngpt=TRUE
FALSE      extra$computeSeasonAmp=TRUE
FALSE      extra$computeTrendSlope=TRUE
FALSE      extra$tallyPosNegSeasonJump=FALSE

```

```

FALSE      extra$tallyPosNegTrendJump=TRUE
FALSE      extra$tallyIncDecTrendJump=TRUE
FALSE      extra$printProgressBar=TRUE
FALSE      extra$printOptions=TRUE
FALSE      extra$consoleWidth=80
FALSE      extra$numThreadsPerCPU=2
FALSE      extra$numParThreads=0
FALSE #.....End of displaying extra .....
FALSE
FALSE -Progress:  0.0% done[>*****]\Progress:  4.2%
FALSE
FALSE #-----#
FALSE #      OPTIONS used in the MCMC inference      #
FALSE #-----#
FALSE #set extra$printOptions=0 to suppress the printing #
FALSE #-----#
FALSE
FALSE #.....Start of displaying 'MetaData' .....
FALSE      metadata=list()
FALSE      metadata$isRegularOrdered=FALSE
FALSE      metadata$season='harmonic'
FALSE      metadata$period=1.000000
FALSE      metadata$startTime=1984.33337
FALSE      metadata$deltaTime=0.08333
FALSE      metadata$whichDimIsTime=1
FALSE      metadata$missingValue=NaN
FALSE      metadata$maxMissingRate=0.7500
FALSE      metadata$deseasonalize=FALSE
FALSE      metadata$detrend=FALSE
FALSE #.....End of displaying MetaData .....
FALSE
FALSE #.....Start of displaying 'prior' .....
FALSE      prior=list()
FALSE      prior$modelPriorType=1
FALSE      prior$seasonMinOrder=1
FALSE      prior$seasonMaxOrder=5
FALSE      prior$seasonMinKnotNum=0
FALSE      prior$seasonMaxKnotNum=10
FALSE      prior$seasonMinSepDist=6
FALSE      prior$trendMinOrder=0
FALSE      prior$trendMaxOrder=1
FALSE      prior$trendMinKnotNum=0
FALSE      prior$trendMaxKnotNum=10
FALSE      prior$trendMinSepDist=6
FALSE      prior$K_MAX=132
FALSE      prior$precValue=1.500000
FALSE      prior$precPriorType='uniform'
FALSE #.....End of displaying pripr .....
FALSE
FALSE #.....Start of displaying 'mcmc' .....
FALSE      mcmc=list()
FALSE      mcmc$seed=0
FALSE      mcmc$samples=8000
FALSE      mcmc$thinningFactor=5

```

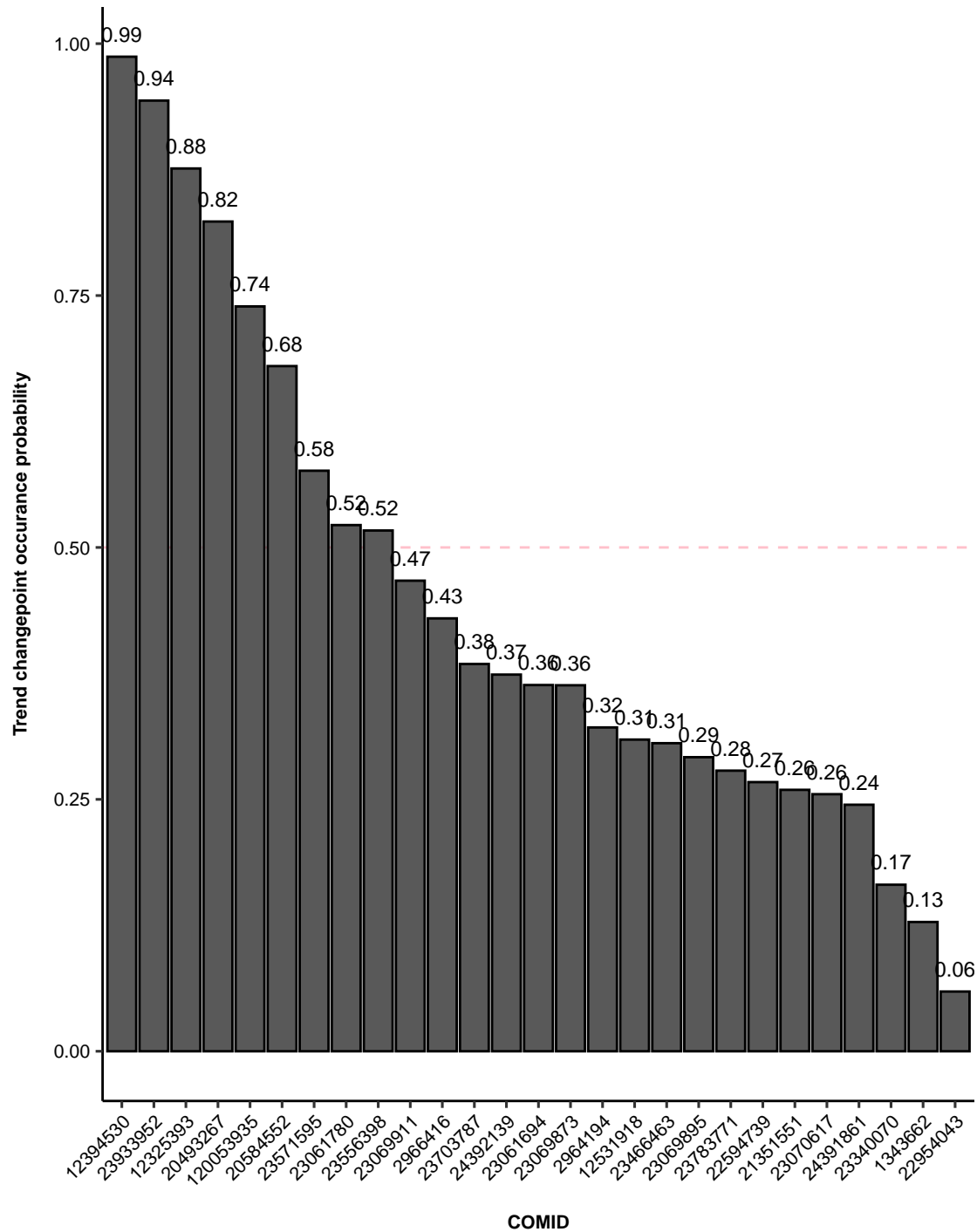
```

FALSE      mcmc$burnin=200
FALSE      mcmc$chainNumber=3
FALSE      mcmc$maxMoveStepSize=12
FALSE      mcmc$trendResamplingOrderProb=0.1000
FALSE      mcmc$seasonResamplingOrderProb=0.1700
FALSE      mcmc$credIntervalAlphaLevel=0.950
FALSE #.....End of displaying mcmc .....
FALSE
FALSE #.....Start of displaying 'extra' .....
FALSE      extra=list()
FALSE      extra$dumpInputData=TRUE
FALSE      extra$whichOutputDimIsTime=1
FALSE      extra$computeCredible=TRUE
FALSE      extra$fastCIComputation=TRUE
FALSE      extra$computeSeasonOrder=TRUE
FALSE      extra$computeTrendOrder=TRUE
FALSE      extra$computeSeasonChngpt=TRUE
FALSE      extra$computeTrendChngpt=TRUE
FALSE      extra$computeSeasonAmp=TRUE
FALSE      extra$computeTrendSlope=TRUE
FALSE      extra$tallyPosNegSeasonJump=FALSE
FALSE      extra$tallyPosNegTrendJump=TRUE
FALSE      extra$tallyIncDecTrendJump=TRUE
FALSE      extra$printProgressBar=TRUE
FALSE      extra$printOptions=TRUE
FALSE      extra$consoleWidth=80
FALSE      extra$numThreadsPerCPU=2
FALSE      extra$numParThreads=0
FALSE #.....End of displaying extra .....
FALSE
FALSE \Progress:  0.0% done[>*****] |Progress:  4.2%
FALSE Time difference of 46.6103 secs

```

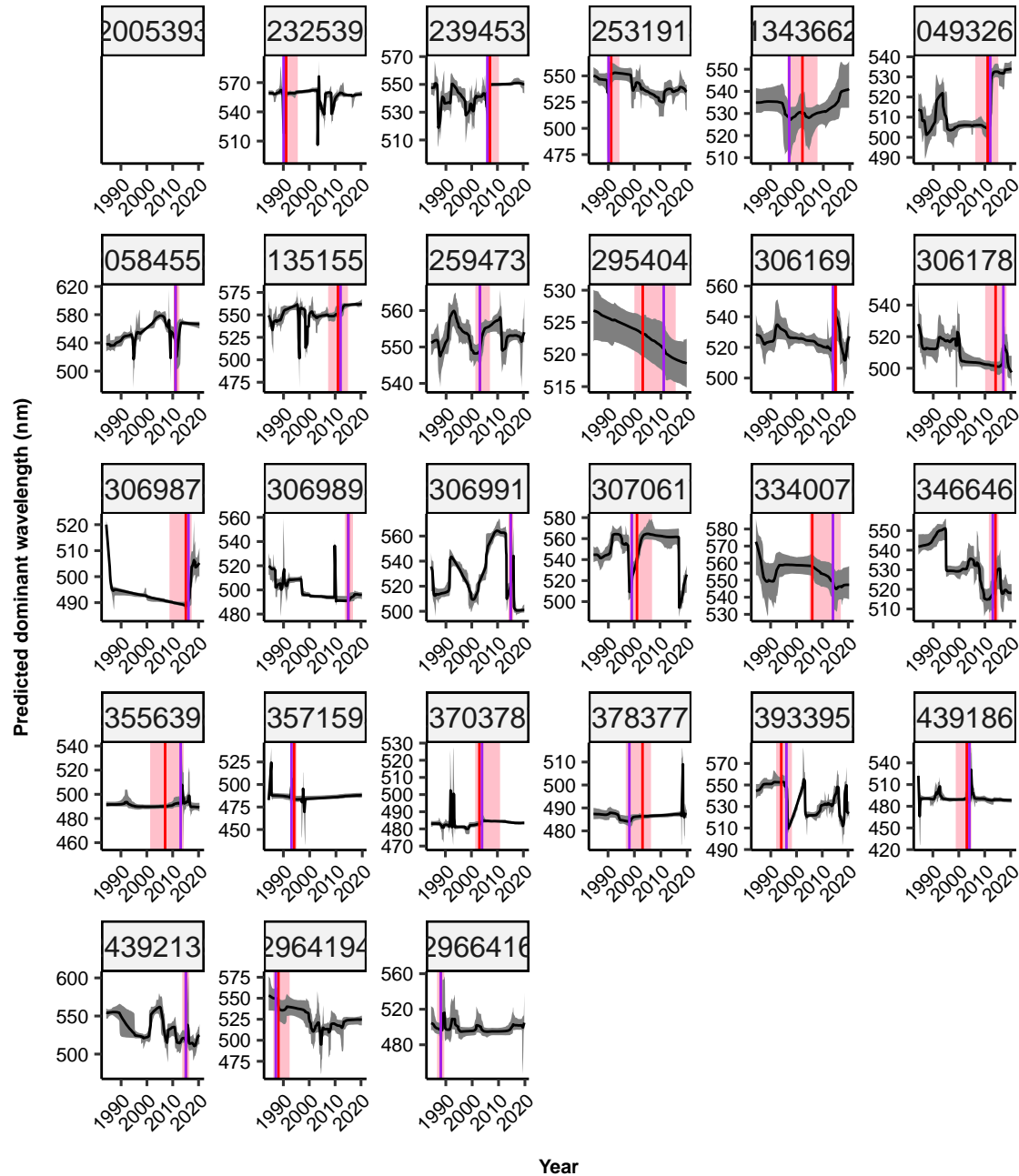
## 2.1.1 Questions:

2.1.1.1 Do any of the trend changepoint confidence intervals span the year of the fire?  
**For 28 lakes, the confidence intervals on the trend changepoint enclose the year of the fire. For 10 of those lakes, the probability is 0.50 or greater.**



## All the lakes where the confidence intervals on one of the trend changepoints encompasses the year of the watershed burn

The black line with grey shading shows the predicted dWL with 95% CI around the trend. The red line shows the time that >90% of the watershed burned. The purple line shows the date of the actual changepoint while the pink shading shows the confidence intervals around the trend changepoint.



2.1.1.2 Do any of the seasonal changepoint confidence intervals span the year of the fire?  
**For 15 lakes, the confidence intervals on the seasonal changepoint of watershed burn. For 2 of those lakes, the probability is 0.50**

