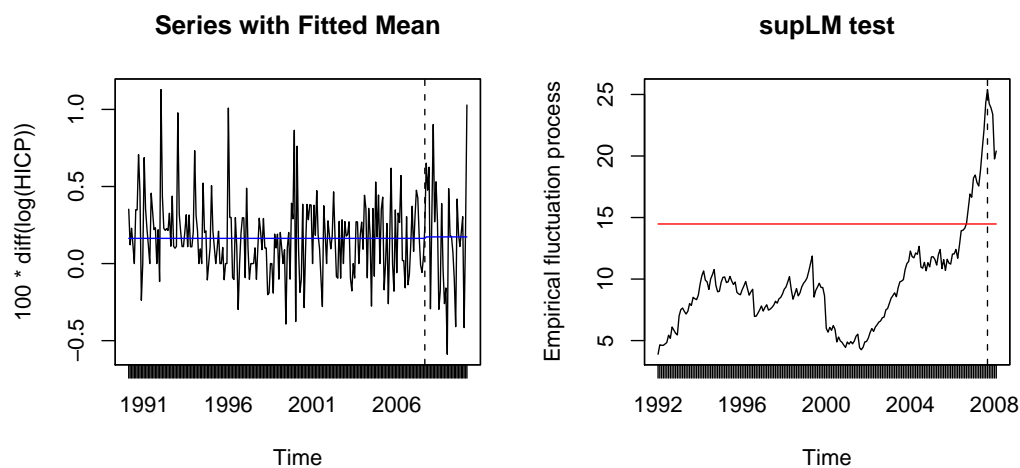


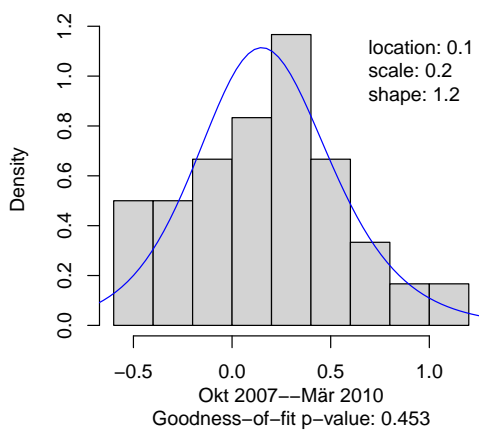
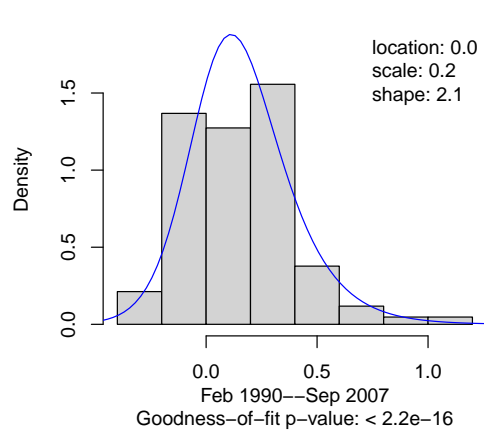
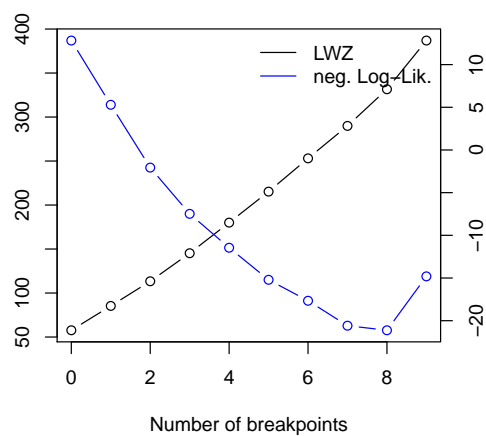
# Austria

|                    | location  | log(scale) | log(shape) |
|--------------------|-----------|------------|------------|
| Feb 1990--Sep 2007 | -0.005613 | -1.839     | 0.7425     |
| Okt 2007--Mr 2010  | 0.111732  | -1.447     | 0.1644     |

|                    | mean   | variance | skewness |
|--------------------|--------|----------|----------|
| Feb 1990--Sep 2007 | 0.1635 | 0.05694  | 0.6056   |
| Okt 2007--Mr 2010  | 0.1731 | 0.16310  | 0.1691   |



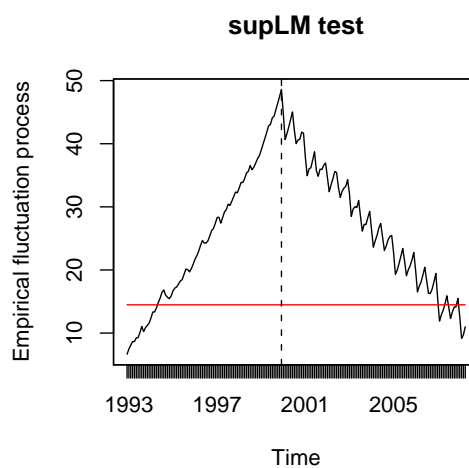
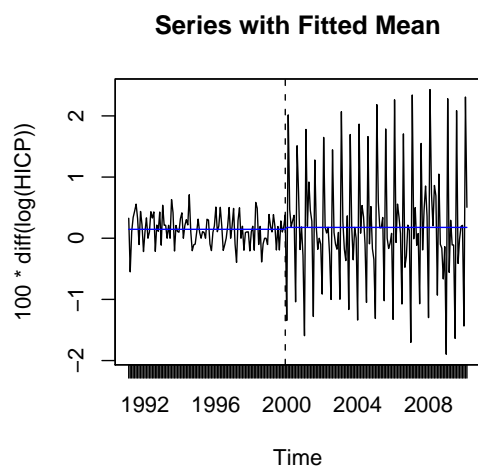
**LWZ and Negative Log-Likelihood**



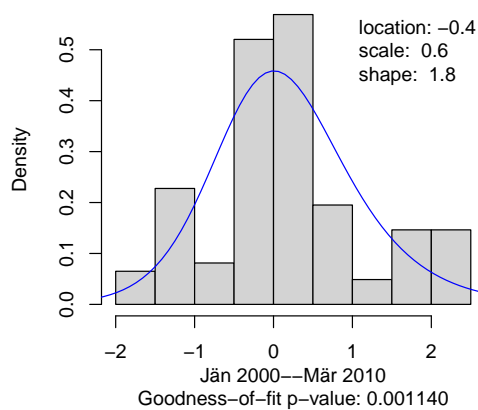
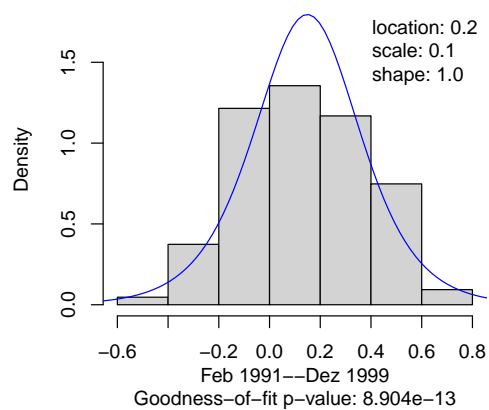
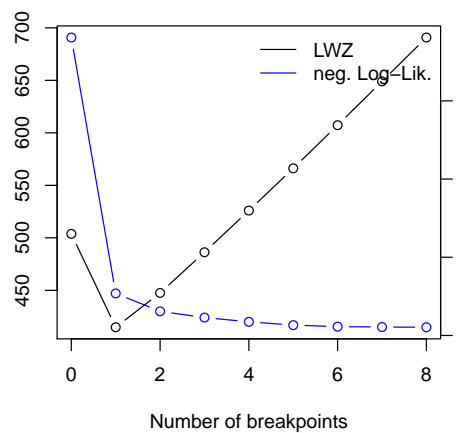
# Belgium

|                    | location | log(scale) | log(shape) |
|--------------------|----------|------------|------------|
| Feb 1991--Dez 1999 | 0.1536   | -1.9823    | -0.03372   |
| Jn 2000--Mr 2010   | -0.3575  | -0.4599    | 0.57582    |

|                    | mean   | variance | skewness |
|--------------------|--------|----------|----------|
| Feb 1991--Dez 1999 | 0.1459 | 0.06401  | -0.03708 |
| Jn 2000--Mr 2010   | 0.1768 | 0.95401  | 0.50356  |



**LWZ and Negative Log-Likelihood**

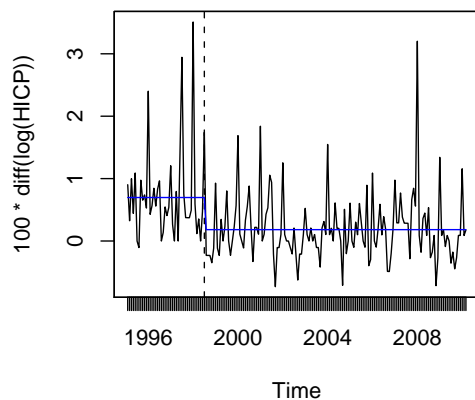


# CzechRepublic

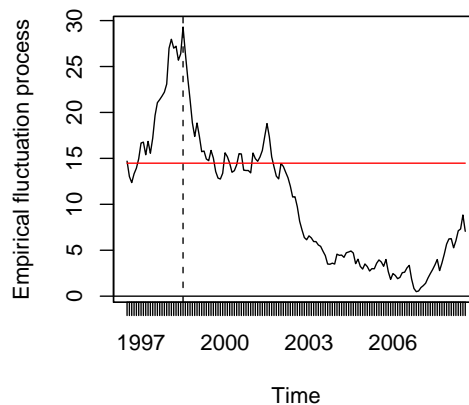
|                    | location | log(scale) | log(shape) |
|--------------------|----------|------------|------------|
| Feb 1995--Jul 1998 | -3.7217  | -0.7938    | 9.196      |
| Aug 1998--Mr 2010  | -0.6739  | -1.0597    | 1.965      |

|                    | mean   | variance | skewness |
|--------------------|--------|----------|----------|
| Feb 1995--Jul 1998 | 0.6969 | 0.3363   | 1.139    |
| Aug 1998--Mr 2010  | 0.1821 | 0.2156   | 0.990    |

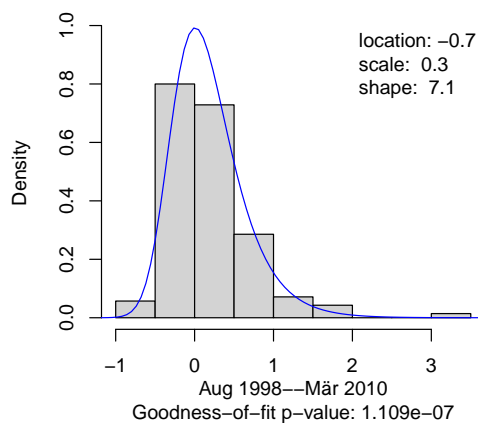
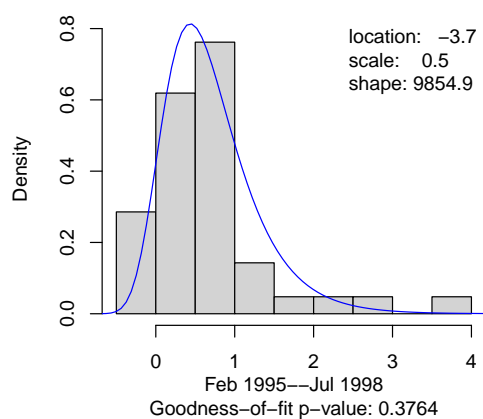
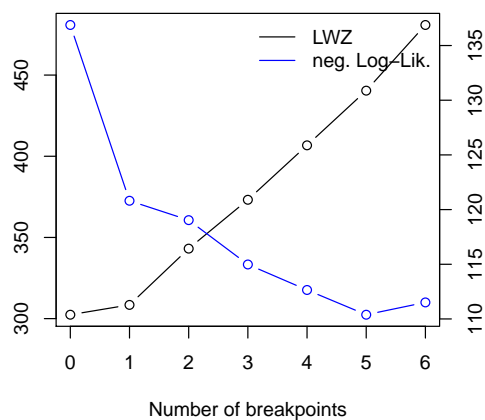
Series with Fitted Mean



supLM test



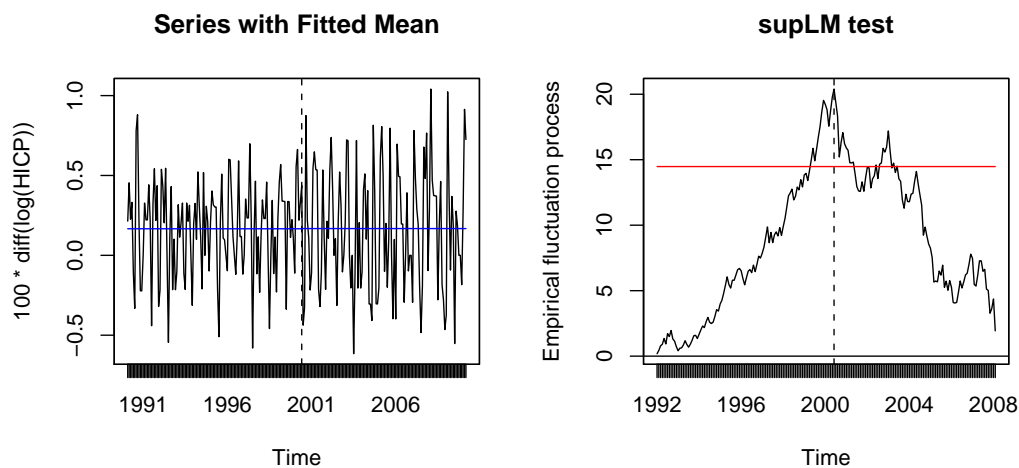
LWZ and Negative Log-Likelihood



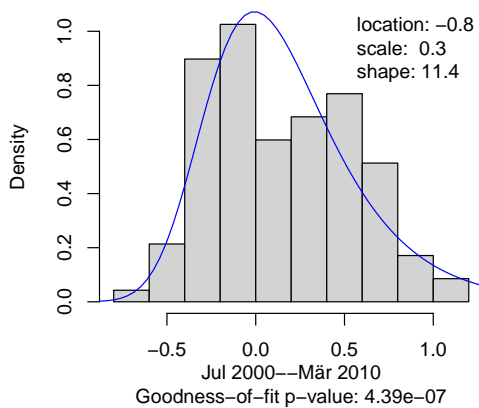
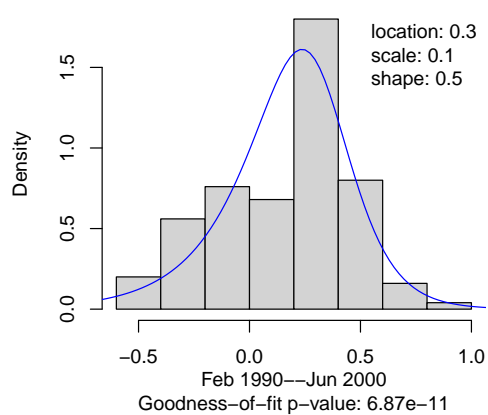
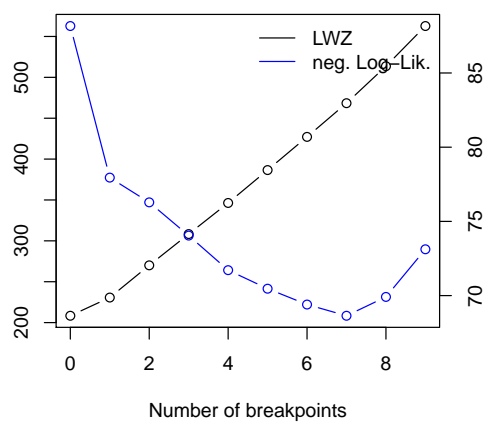
# Denmark

|                    | location | log(scale) | log(shape) |
|--------------------|----------|------------|------------|
| Feb 1990--Jun 2000 | 0.3120   | -2.086     | -0.6042    |
| Jul 2000--Mr 2010  | -0.8084  | -1.113     | 2.4364     |

|                    | mean   | variance | skewness |
|--------------------|--------|----------|----------|
| Feb 1990--Jun 2000 | 0.1664 | 0.09078  | -0.7425  |
| Jul 2000--Mr 2010  | 0.1676 | 0.18758  | 1.0471   |



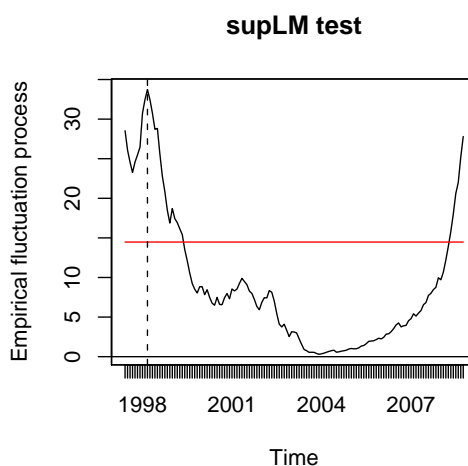
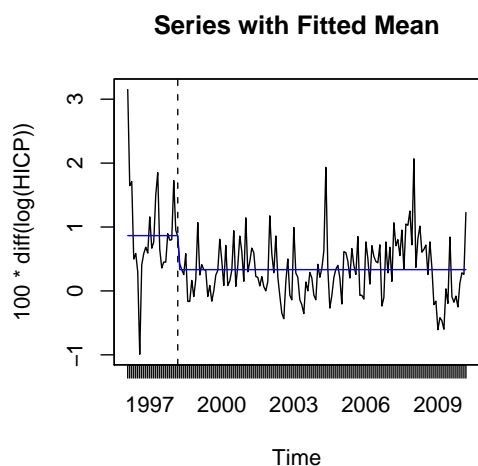
**LWZ and Negative Log-Likelihood**



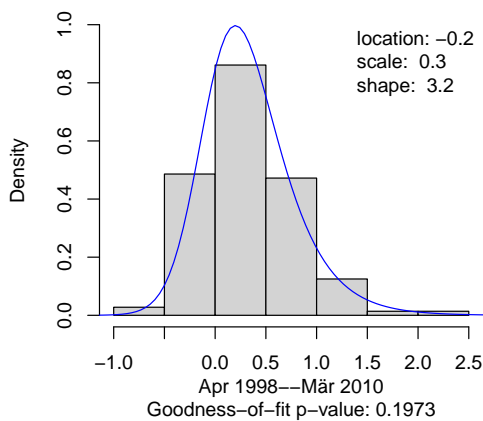
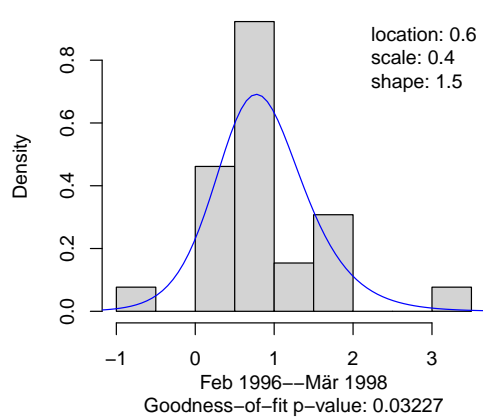
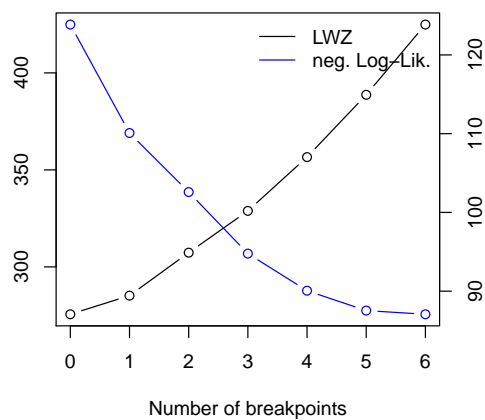
# Estonia

|                   | location | log(scale) | log(shape) |
|-------------------|----------|------------|------------|
| Feb 1996--Mr 1998 | 0.5981   | -0.9008    | 0.4363     |
| Apr 1998--Mr 2010 | -0.1782  | -1.1372    | 1.1780     |

|                   | mean   | variance | skewness |
|-------------------|--------|----------|----------|
| Feb 1996--Mr 1998 | 0.8649 | 0.4196   | 0.4041   |
| Apr 1998--Mr 2010 | 0.3328 | 0.2062   | 0.8016   |



## LWZ and Negative Log-Likelihood

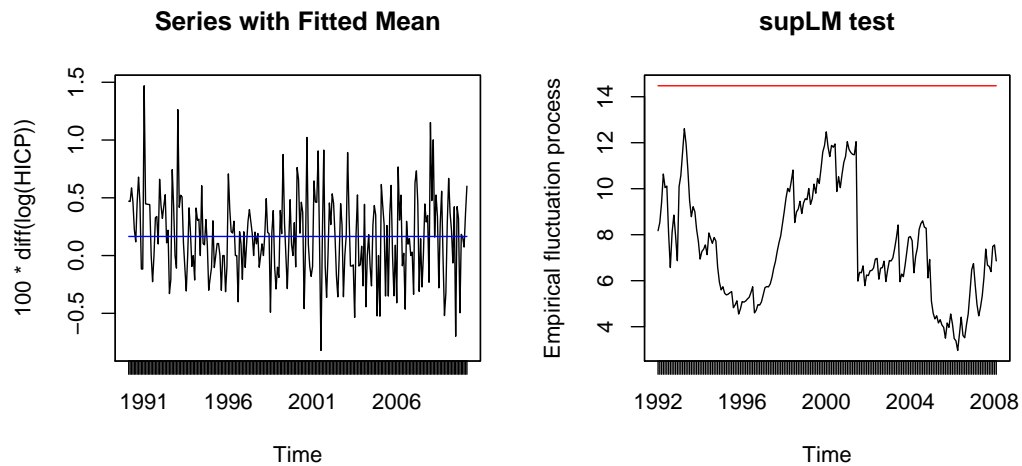


# Finland

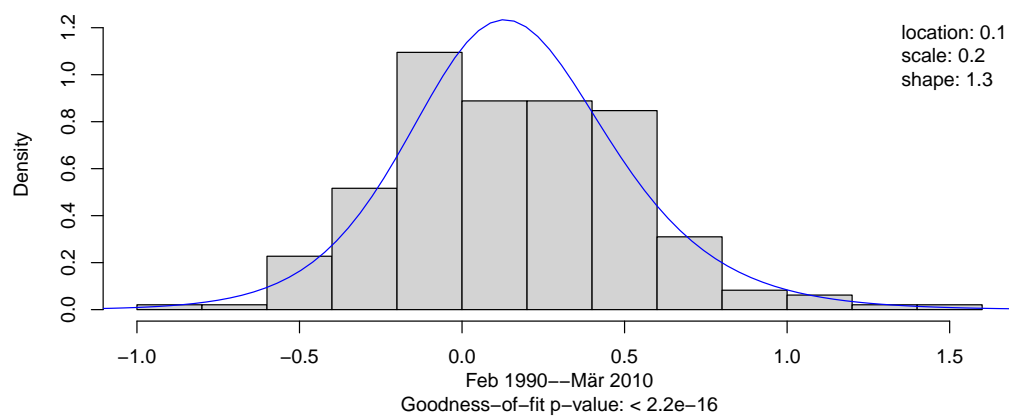
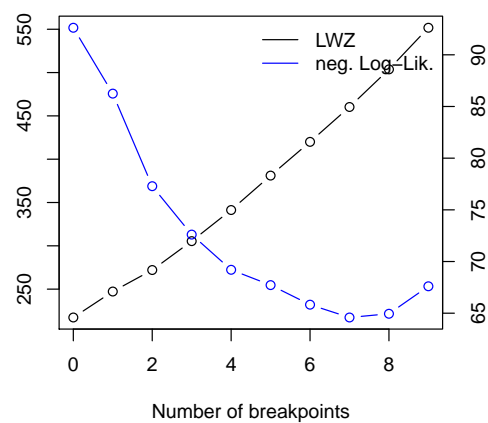
|                   | location | log(scale) | log(shape) |
|-------------------|----------|------------|------------|
| Feb 1990--Mr 2010 | 0.06863  | -1.517     | 0.2845     |

|                   | mean   | variance | skewness |
|-------------------|--------|----------|----------|
| Feb 1990--Mr 2010 | 0.1653 | 0.1321   | 0.2798   |



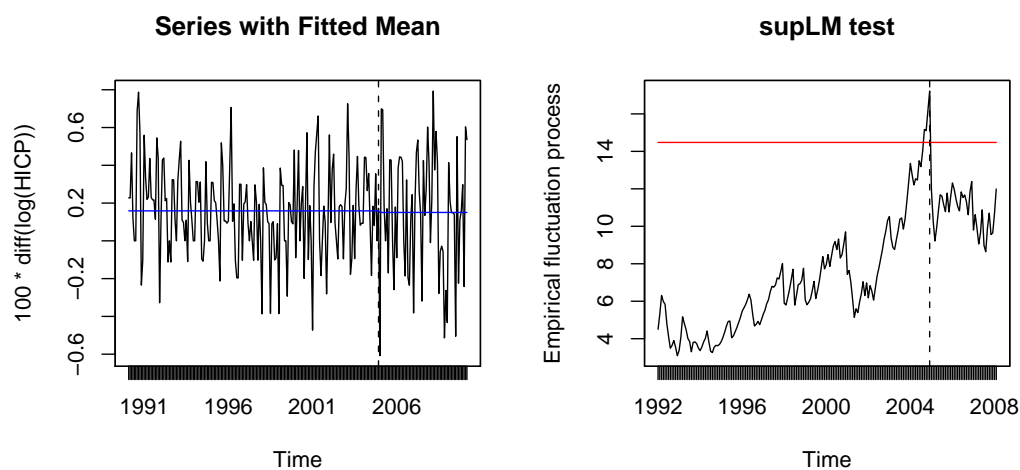
**LWZ and Negative Log-Likelihood**



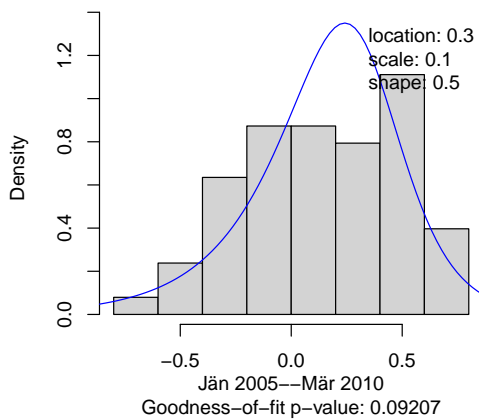
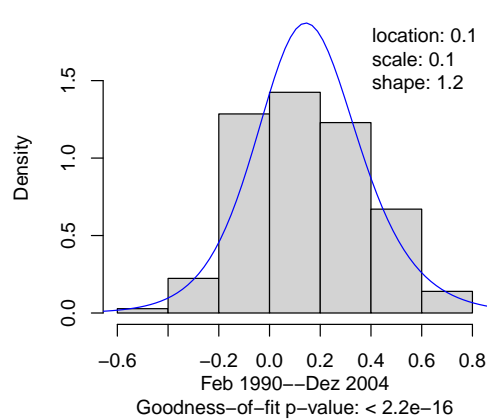
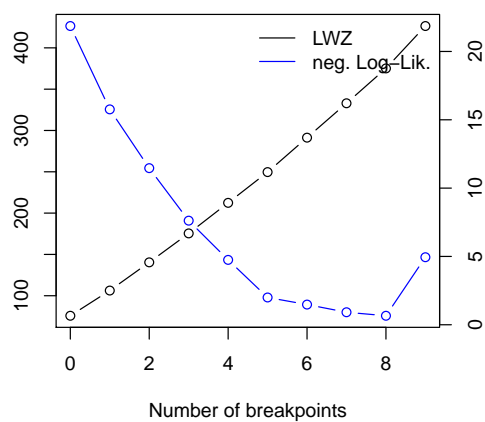
# France

|                    | location | log(scale) | log(shape) |
|--------------------|----------|------------|------------|
| Feb 1990--Dez 2004 | 0.1158   | -1.958     | 0.193      |
| Jn 2005--Mr 2010   | 0.3353   | -1.927     | -0.645     |

|                    | mean   | variance | skewness |
|--------------------|--------|----------|----------|
| Feb 1990--Dez 2004 | 0.1588 | 0.05769  | 0.1965   |
| Jn 2005--Mr 2010   | 0.1504 | 0.13134  | -0.7942  |



## LWZ and Negative Log-Likelihood

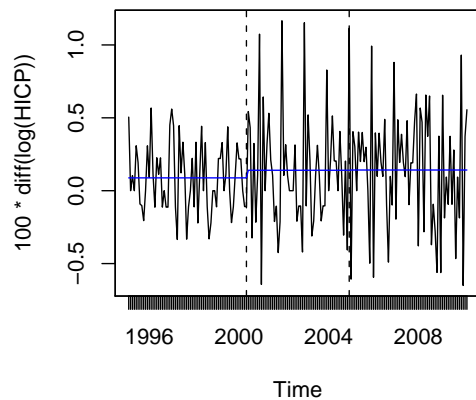


# Germany

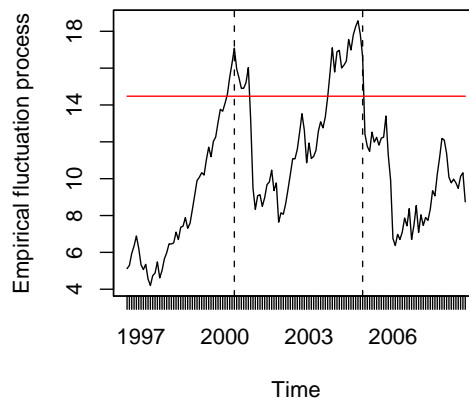
|                    | location | log(scale) | log(shape) |
|--------------------|----------|------------|------------|
| Feb 1995--Mai 2000 | -0.2840  | -1.718     | 1.6007     |
| Jun 2000--Dez 2004 | -0.6102  | -1.197     | 1.9785     |
| Jn 2005--Mr 2010   | 0.3309   | -1.697     | -0.5417    |

|                    | mean    | variance | skewness |
|--------------------|---------|----------|----------|
| Feb 1995--Mai 2000 | 0.08799 | 0.06013  | 0.9219   |
| Jun 2000--Dez 2004 | 0.14018 | 0.16352  | 0.9920   |
| Jn 2005--Mr 2010   | 0.14183 | 0.18384  | -0.6625  |

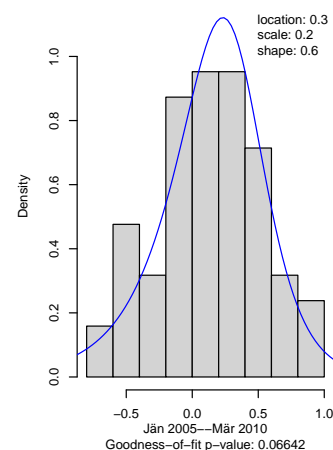
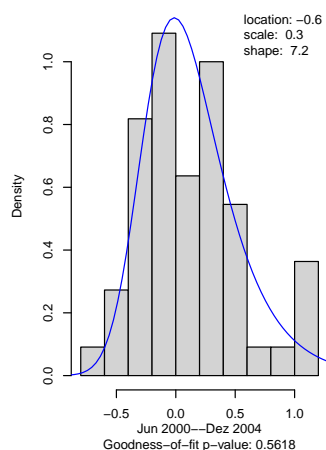
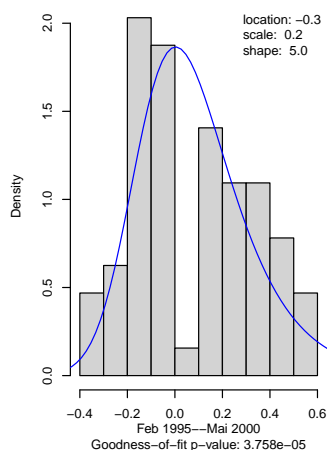
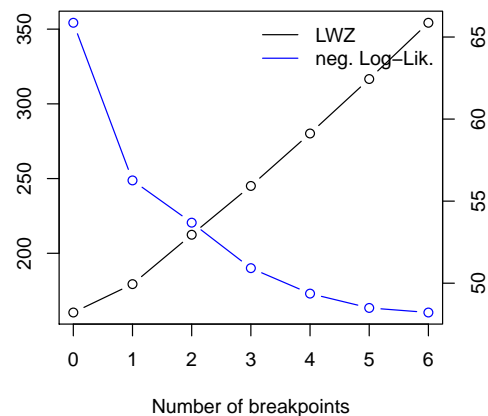
Series with Fitted Mean



supLM test



LWZ and Negative Log-Likelihood



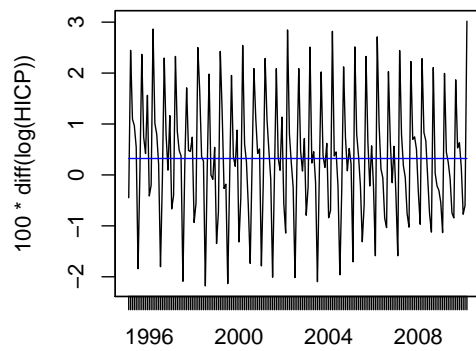


# Greece

|                   | location | log(scale) | log(shape) |
|-------------------|----------|------------|------------|
| Feb 1995--Mr 2010 | -0.2213  | -0.2622    | 0.4728     |

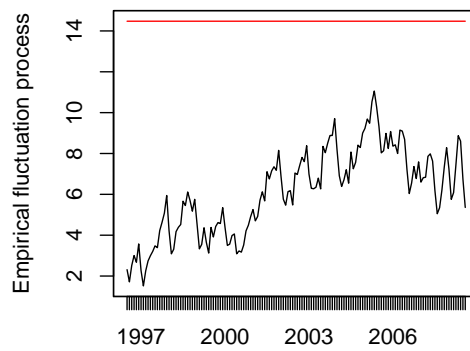
|                   | mean   | variance | skewness |
|-------------------|--------|----------|----------|
| Feb 1995--Mr 2010 | 0.3227 | 1.48     | 0.4314   |

Series with Fitted Mean



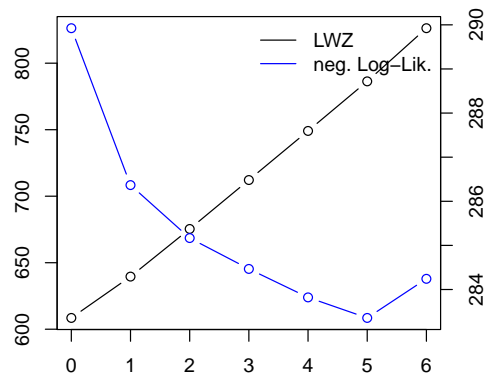
Time

supLM test

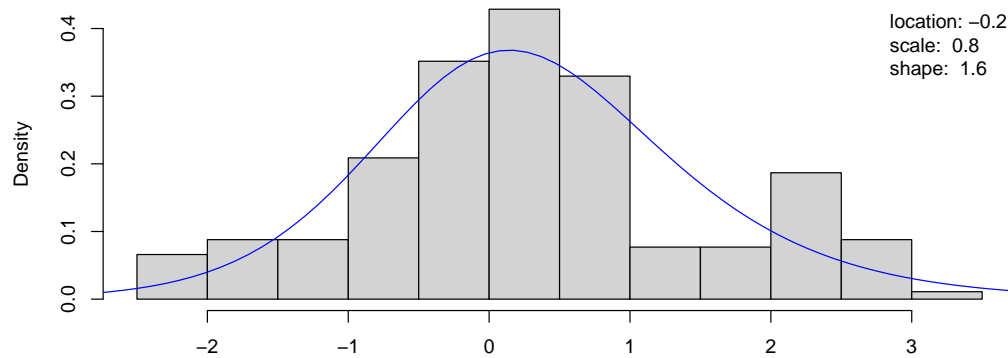


Time

LWZ and Negative Log-Likelihood



Number of breakpoints



location: -0.2  
scale: 0.8  
shape: 1.6

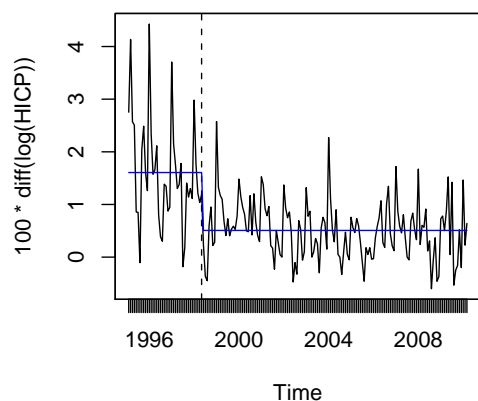
Feb 1995--Mär 2010  
Goodness-of-fit p-value: 0.0005142

# Hungary

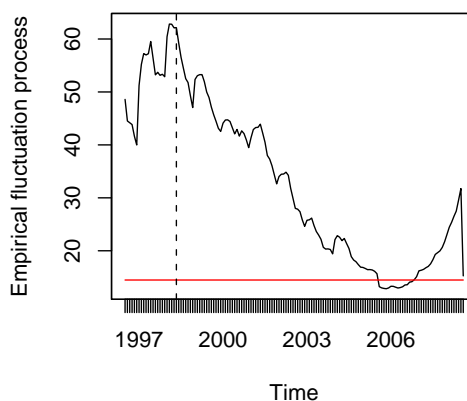
|                    | location  | log(scale) | log(shape) |
|--------------------|-----------|------------|------------|
| Feb 1995--Mai 1998 | 0.234999  | -0.3134    | 1.4241     |
| Jun 1998--Mr 2010  | -0.003007 | -0.9508    | 0.9482     |

|                    | mean   | variance | skewness |
|--------------------|--------|----------|----------|
| Feb 1995--Mai 1998 | 1.6064 | 1.0243   | 0.8781   |
| Jun 1998--Mr 2010  | 0.5068 | 0.3161   | 0.7095   |

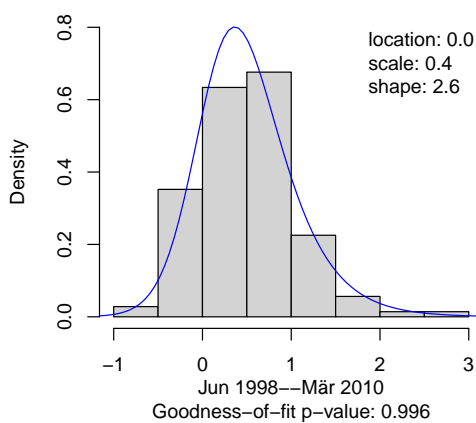
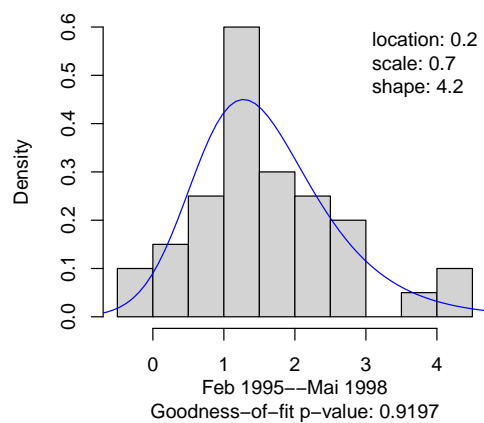
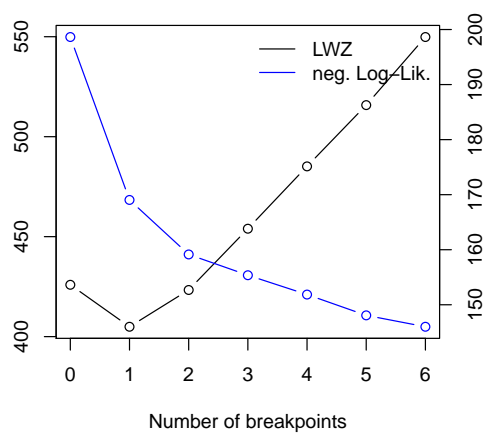
**Series with Fitted Mean**



**supLM test**



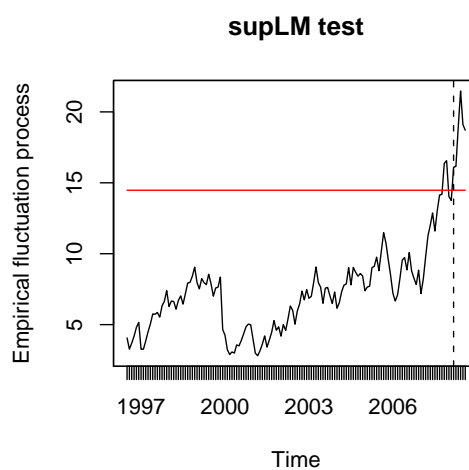
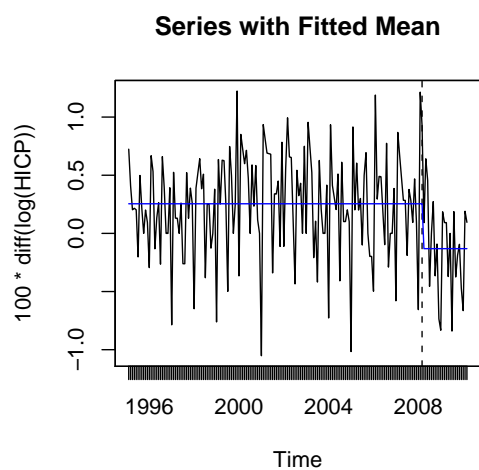
**LWZ and Negative Log-Likelihood**



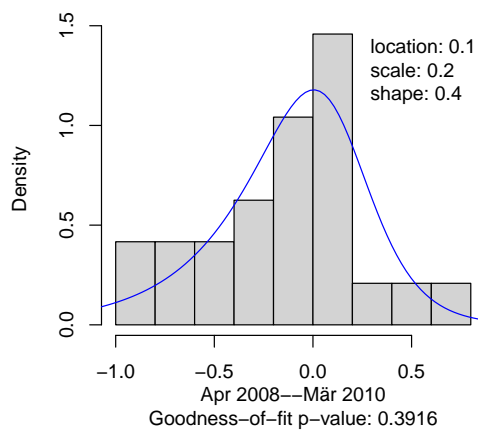
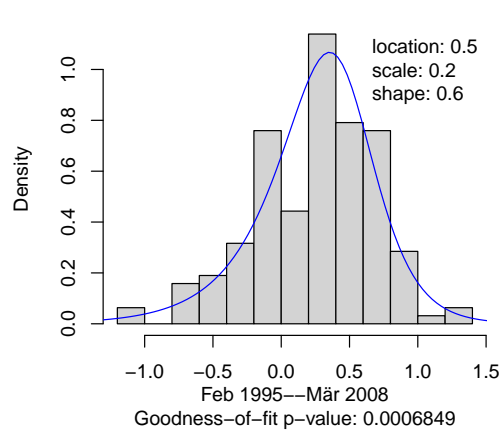
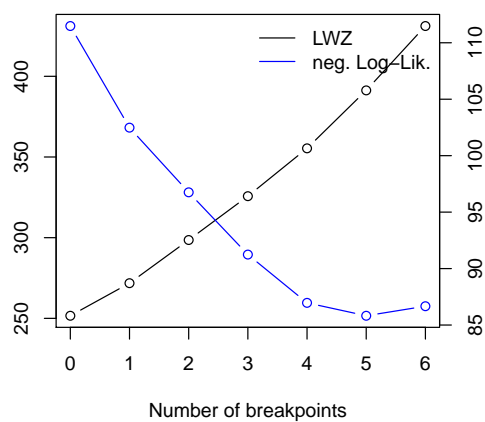
# Ireland

|                   | location | log(scale) | log(shape) |
|-------------------|----------|------------|------------|
| Feb 1995--Mr 2008 | 0.4621   | -1.658     | -0.5677    |
| Apr 2008--Mr 2010 | 0.1291   | -1.865     | -0.8079    |

|                   | mean    | variance | skewness |
|-------------------|---------|----------|----------|
| Feb 1995--Mr 2008 | 0.2546  | 0.2045   | -0.6958  |
| Apr 2008--Mr 2010 | -0.1313 | 0.1836   | -0.9947  |



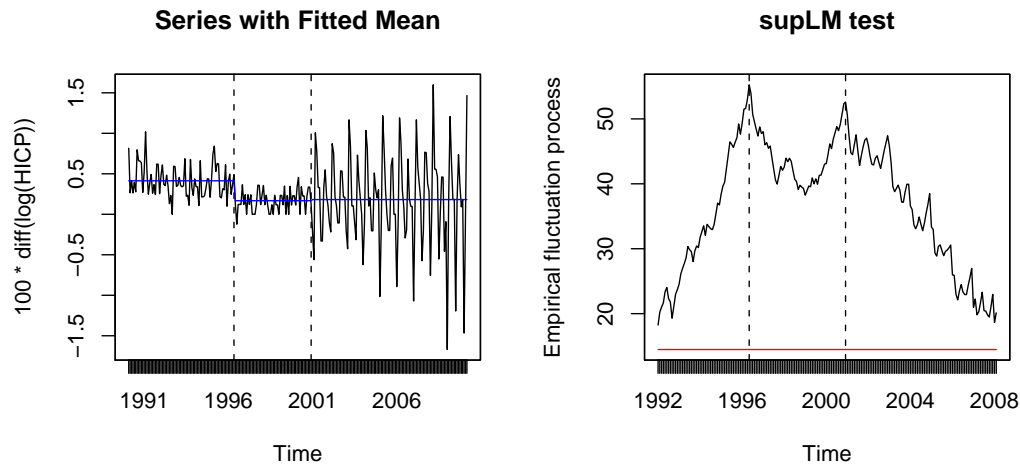
## LWZ and Negative Log-Likelihood



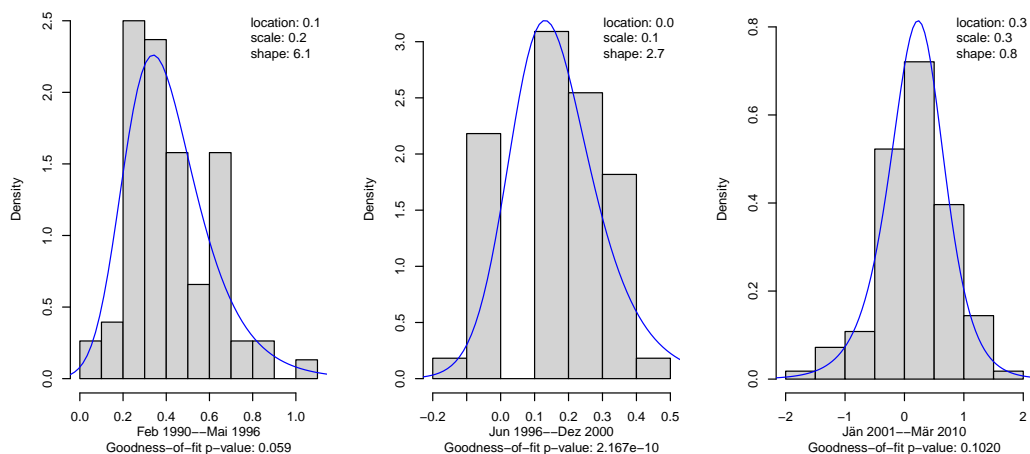
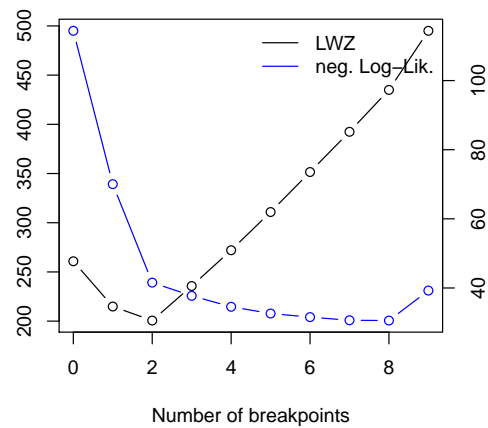
# Italy

|                    | location | log(scale) | log(shape) |
|--------------------|----------|------------|------------|
| Feb 1990--Mai 1996 | 0.06833  | -1.894     | 1.8019     |
| Jun 1996--Dez 2000 | 0.03439  | -2.327     | 0.9858     |
| Jn 2001--Mr 2010   | 0.29331  | -1.255     | -0.2247    |

|                    | mean   | variance | skewness |
|--------------------|--------|----------|----------|
| Feb 1990--Mai 1996 | 0.4135 | 0.04129  | 0.9627   |
| Jun 1996--Dez 2000 | 0.1676 | 0.01997  | 0.7261   |
| Jn 2001--Mr 2010   | 0.1819 | 0.32117  | -0.2605  |



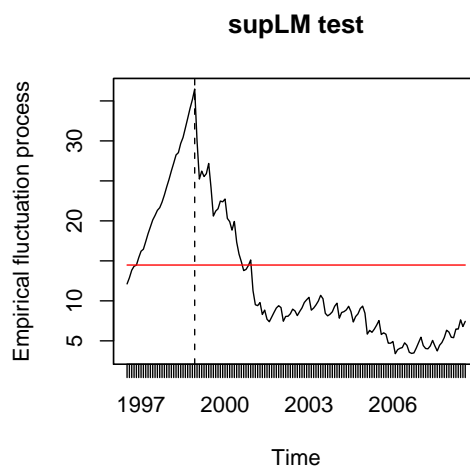
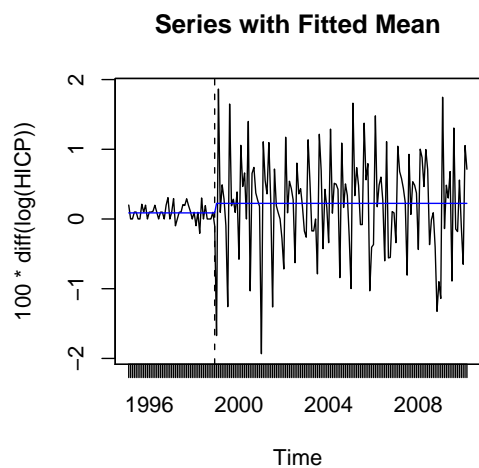
## LWZ and Negative Log-Likelihood



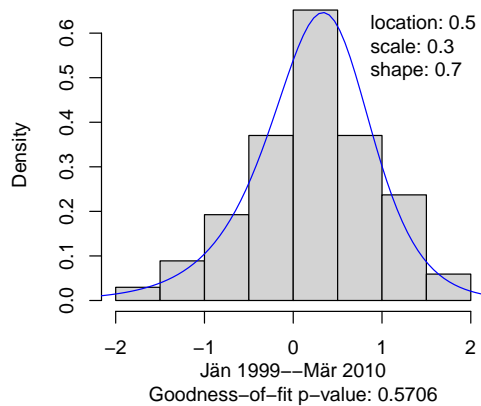
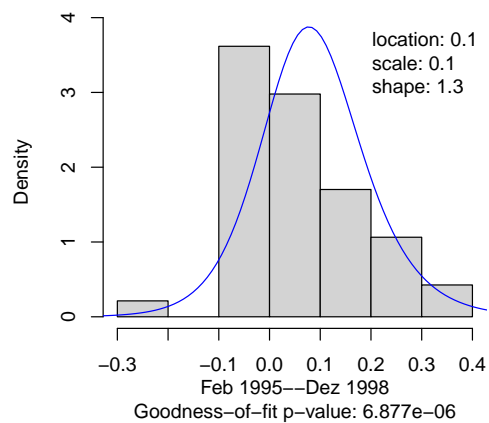
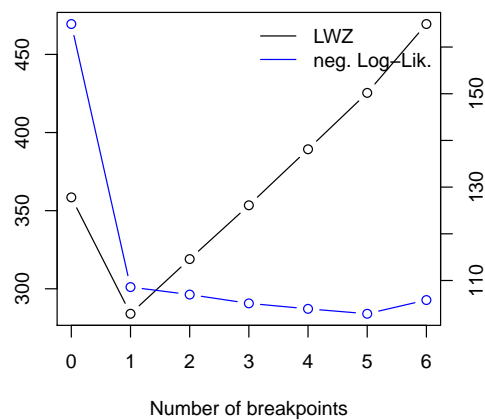
# Luxemburg

|                    | location | log(scale) | log(shape) |
|--------------------|----------|------------|------------|
| Feb 1995--Dez 1998 | 0.05923  | -2.667     | 0.2628     |
| Jn 1999--Mr 2010   | 0.47143  | -1.090     | -0.4024    |

|                    | mean    | variance | skewness |
|--------------------|---------|----------|----------|
| Feb 1995--Dez 1998 | 0.08761 | 0.01340  | 0.2606   |
| Jn 1999--Mr 2010   | 0.22425 | 0.53108  | -0.4836  |



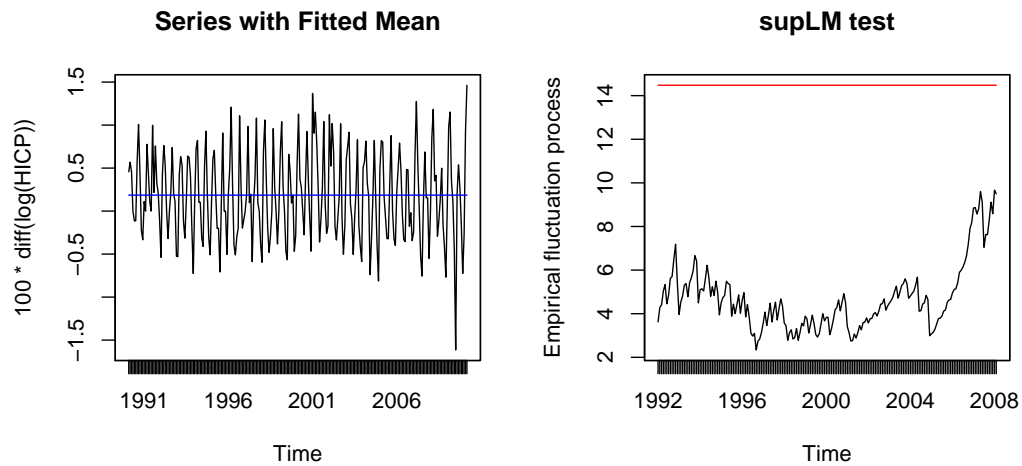
## LWZ and Negative Log-Likelihood



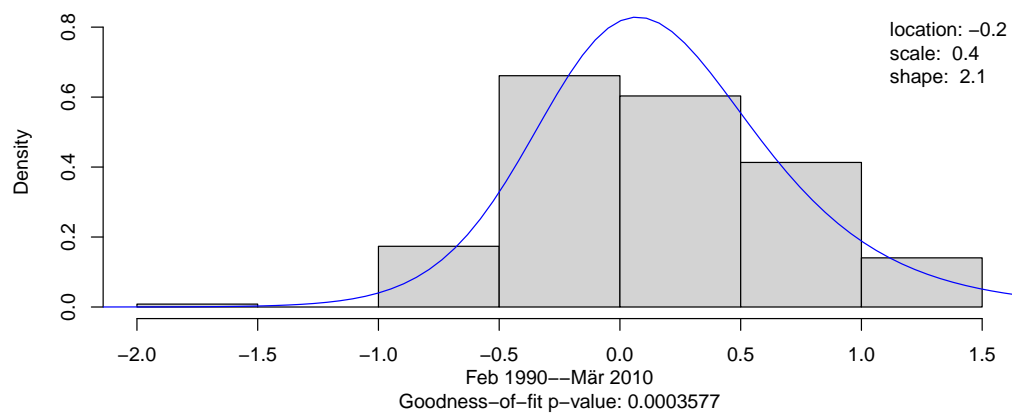
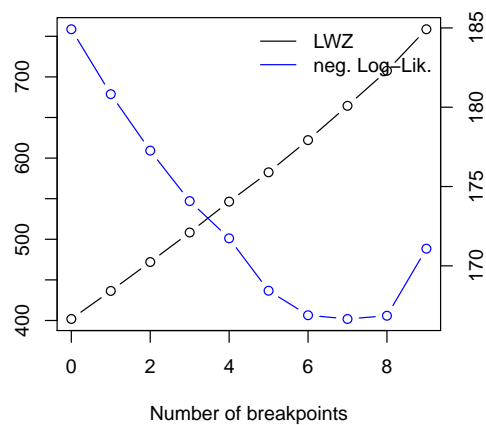
# Netherlands

|                   | location | log(scale) | log(shape) |
|-------------------|----------|------------|------------|
| Feb 1990--Mr 2010 | -0.1915  | -1.022     | 0.7297     |

|                   | mean   | variance | skewness |
|-------------------|--------|----------|----------|
| Feb 1990--Mr 2010 | 0.1854 | 0.293    | 0.5984   |



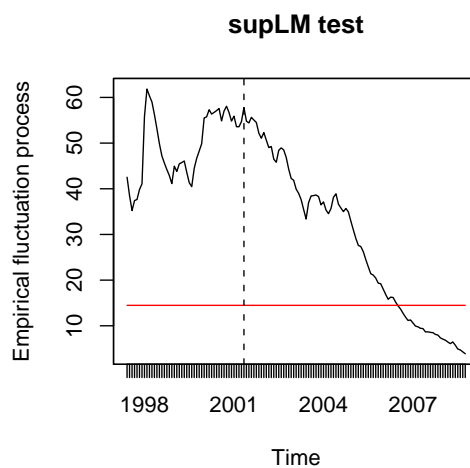
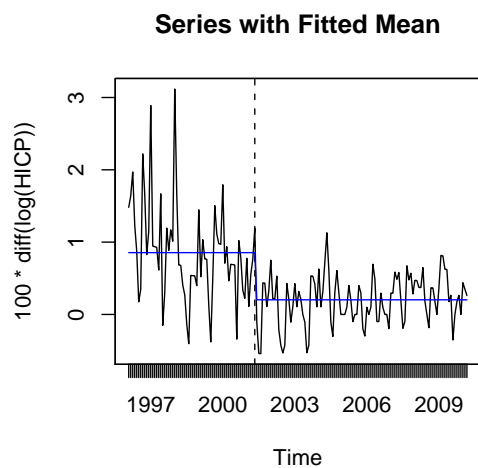
**LWZ and Negative Log-Likelihood**



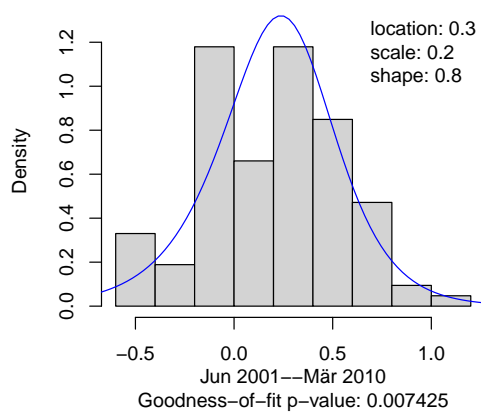
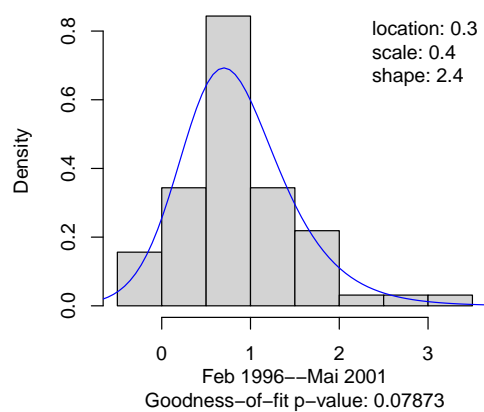
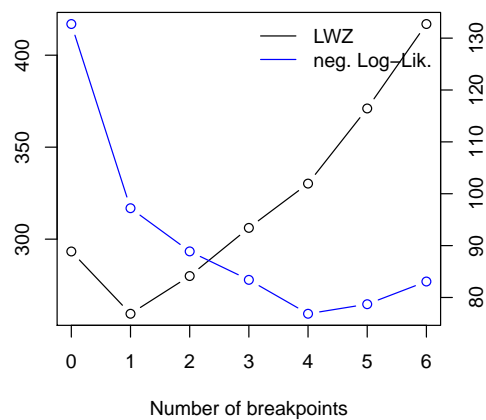
# Poland

|                    | location | log(scale) | log(shape) |
|--------------------|----------|------------|------------|
| Feb 1996--Mai 2001 | 0.3215   | -0.8198    | 0.8597     |
| Jun 2001--Mr 2010  | 0.2842   | -1.7542    | -0.2688    |

|                    | mean   | variance | skewness |
|--------------------|--------|----------|----------|
| Feb 1996--Mai 2001 | 0.8548 | 0.4212   | 0.6675   |
| Jun 2001--Mr 2010  | 0.2024 | 0.1232   | -0.3148  |



## LWZ and Negative Log-Likelihood

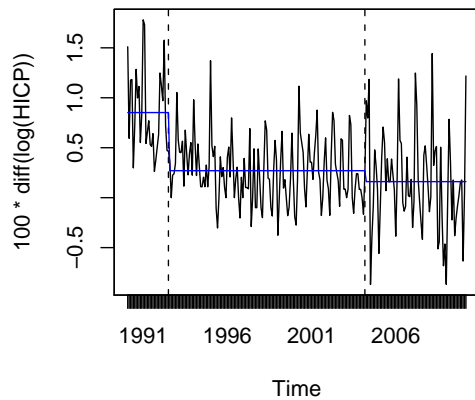


# Portugal

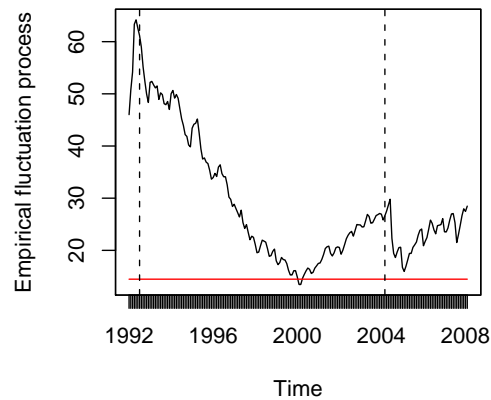
|                    | location | log(scale) | log(shape) |
|--------------------|----------|------------|------------|
| Feb 1990--Jul 1992 | -2.1533  | -1.130     | 8.7218     |
| Aug 1992--Mr 2004  | -0.1558  | -1.455     | 1.3781     |
| Apr 2004--Mr 2010  | -0.1670  | -1.098     | 0.6794     |

|                    | mean   | variance | skewness |
|--------------------|--------|----------|----------|
| Feb 1990--Jul 1992 | 0.8519 | 0.1718   | 1.1394   |
| Aug 1992--Mr 2004  | 0.2700 | 0.1052   | 0.8653   |
| Apr 2004--Mr 2010  | 0.1605 | 0.2559   | 0.5690   |

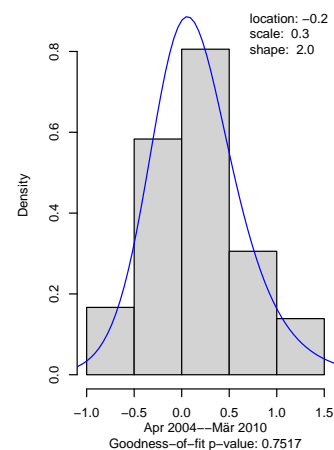
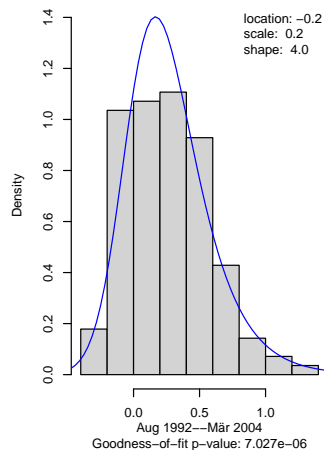
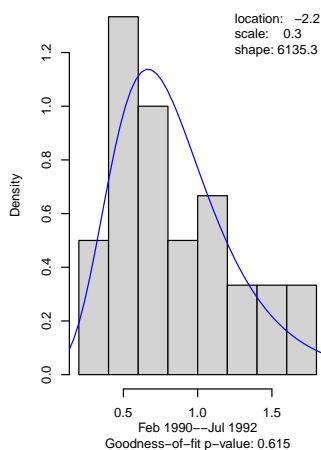
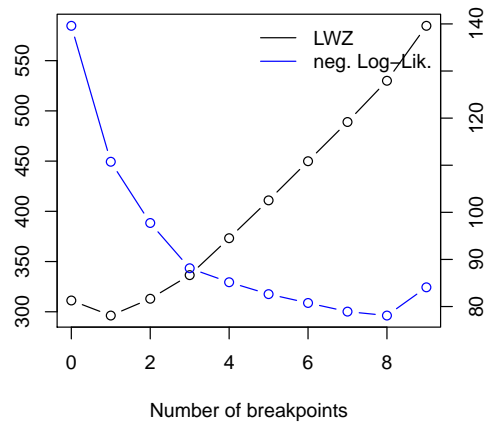
Series with Fitted Mean



supLM test



LWZ and Negative Log-Likelihood



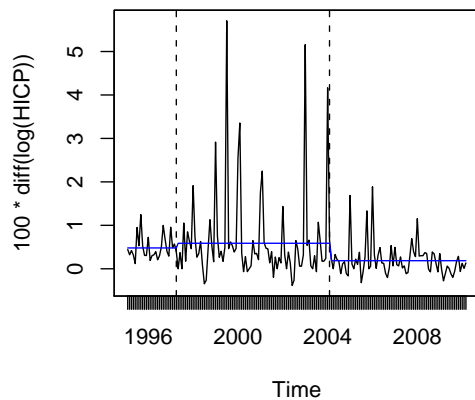


# Slovakia

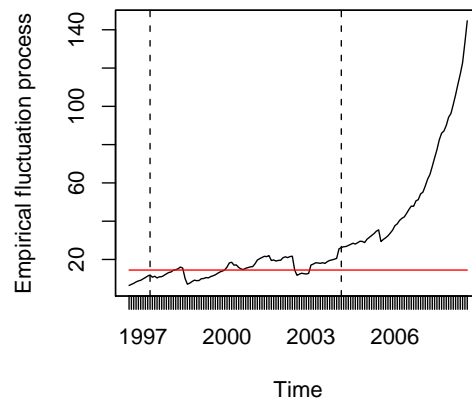
|                    | location | log(scale) | log(shape) |
|--------------------|----------|------------|------------|
| Feb 1995--Apr 1997 | -1.495   | -1.6753    | 9.971      |
| Mai 1997--Feb 2004 | -5.252   | -0.6576    | 10.694     |
| Mr 2004--Mr 2010   | -2.255   | -1.4583    | 9.916      |

|                    | mean   | variance | skewness |
|--------------------|--------|----------|----------|
| Feb 1995--Apr 1997 | 0.4799 | 0.05768  | 1.139    |
| Mai 1997--Feb 2004 | 0.5872 | 0.44150  | 1.140    |
| Mr 2004--Mr 2010   | 0.1865 | 0.08903  | 1.139    |

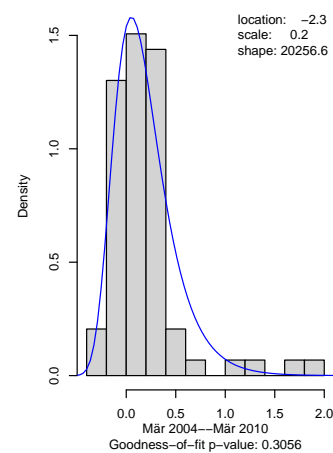
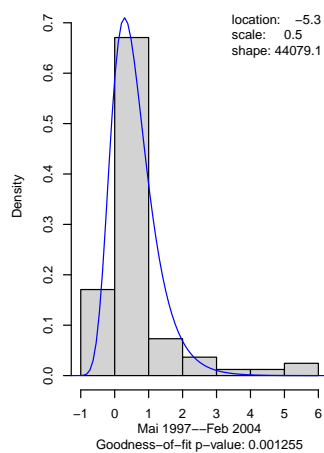
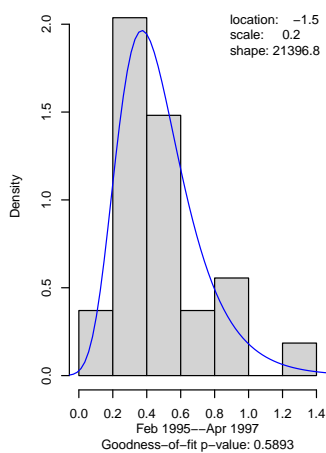
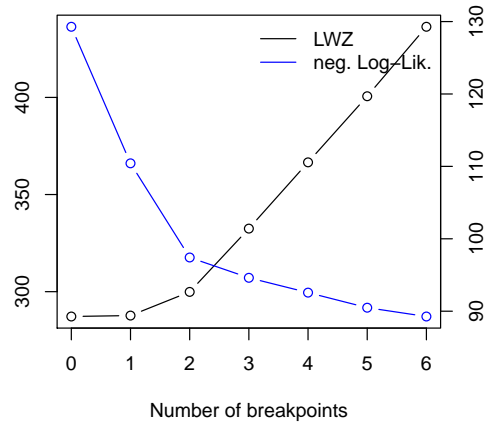
Series with Fitted Mean



supLM test



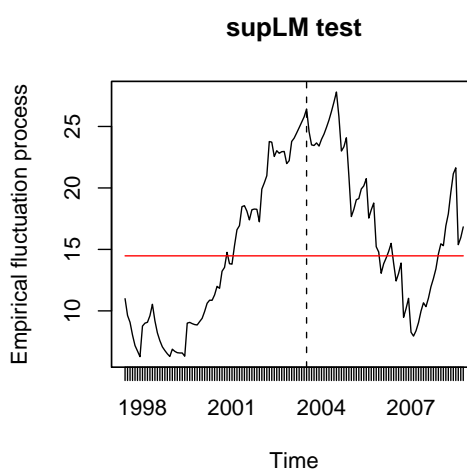
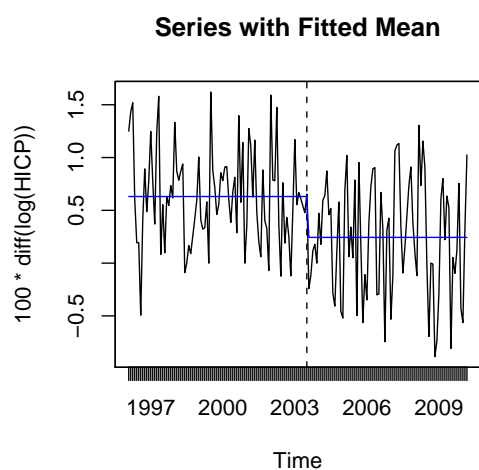
LWZ and Negative Log-Likelihood



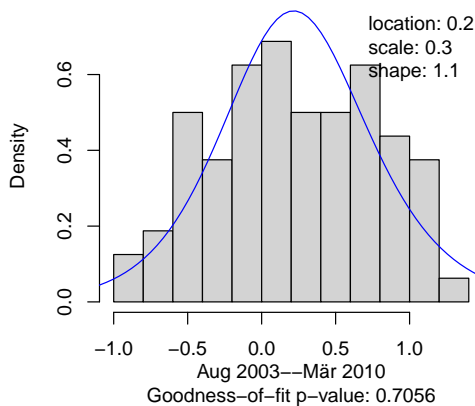
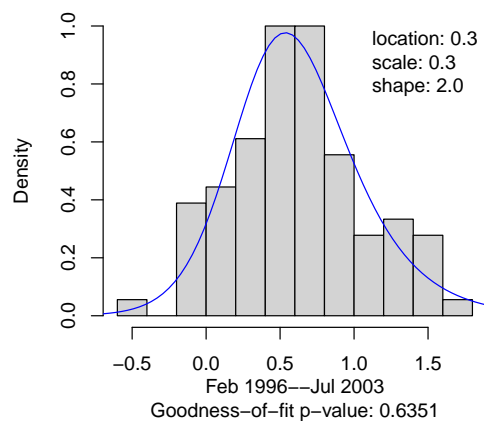
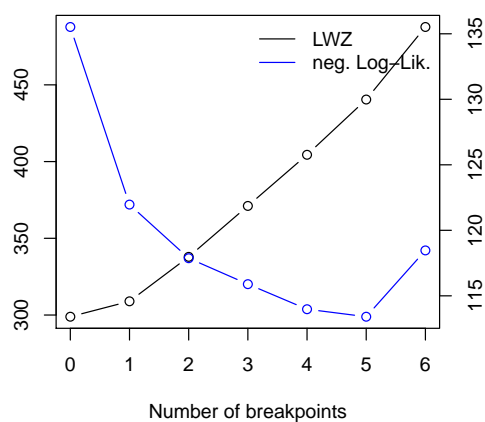
# Slovenia

|                    | location | log(scale) | log(shape) |
|--------------------|----------|------------|------------|
| Feb 1996--Jul 2003 | 0.3190   | -1.189     | 0.7122     |
| Aug 2003--Mr 2010  | 0.1694   | -1.082     | 0.1373     |

|                    | mean   | variance | skewness |
|--------------------|--------|----------|----------|
| Feb 1996--Jul 2003 | 0.6309 | 0.2108   | 0.5883   |
| Aug 2003--Mr 2010  | 0.2436 | 0.3440   | 0.1426   |



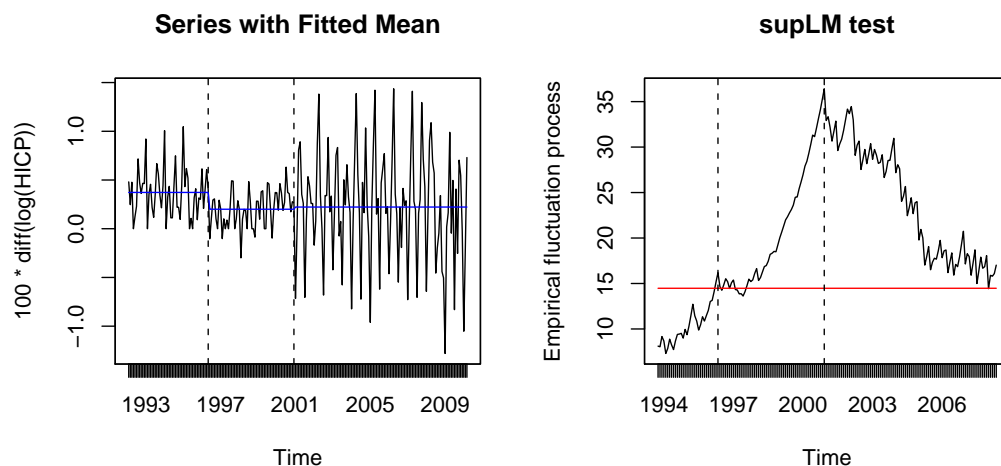
**LWZ and Negative Log-Likelihood**



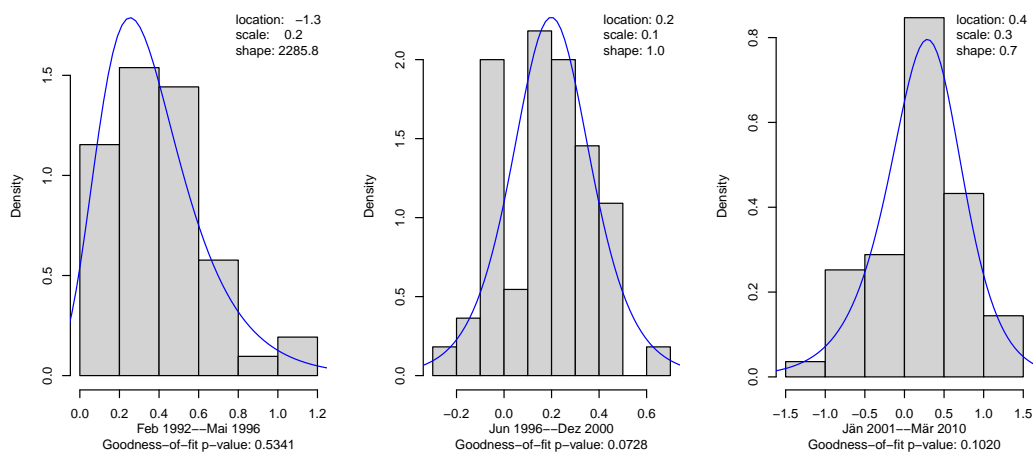
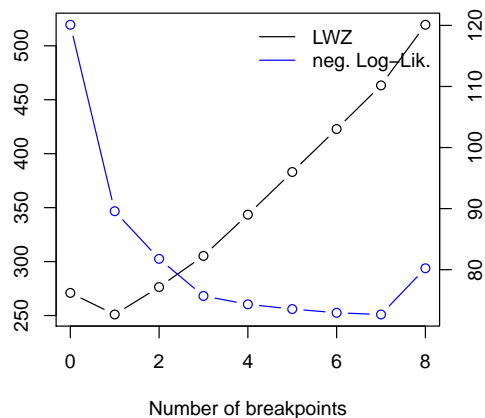
# Spain

|                    | location | log(scale) | log(shape) |
|--------------------|----------|------------|------------|
| Feb 1992--Mai 1996 | -1.3371  | -1.581     | 7.73446    |
| Jun 1996--Dez 2000 | 0.1969   | -2.200     | 0.01731    |
| Jn 2001--Mr 2010   | 0.3769   | -1.261     | -0.30659   |

|                    | mean   | variance | skewness |
|--------------------|--------|----------|----------|
| Feb 1992--Mai 1996 | 0.3724 | 0.06960  | 1.13909  |
| Jun 1996--Dez 2000 | 0.2001 | 0.03988  | 0.01874  |
| Jn 2001--Mr 2010   | 0.2225 | 0.34215  | -0.36200 |



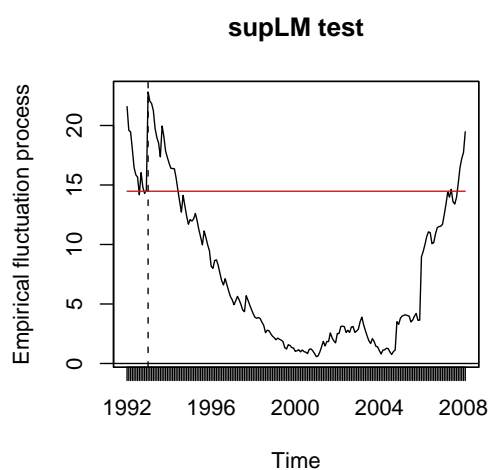
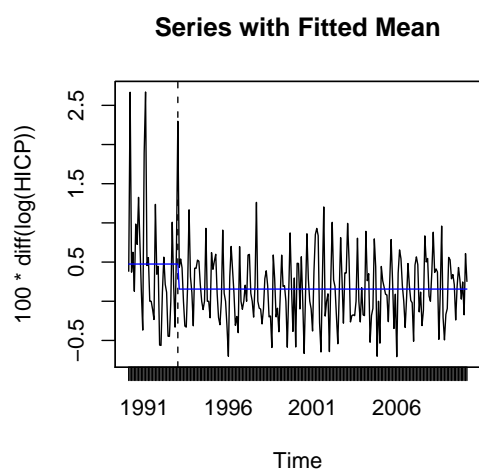
## LWZ and Negative Log-Likelihood



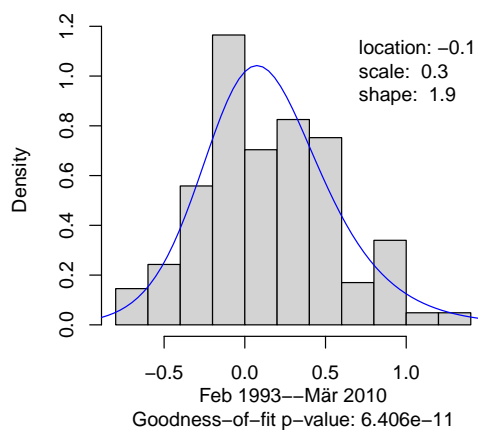
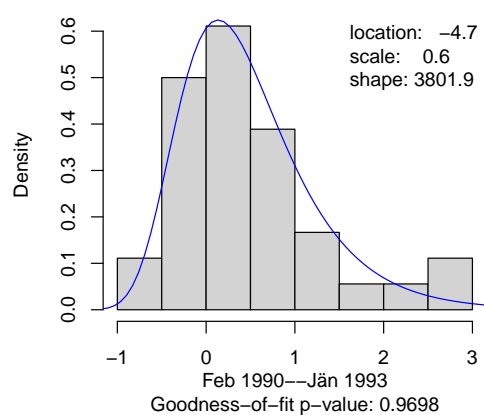
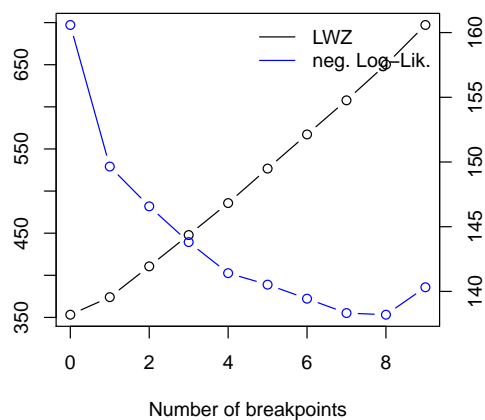
# Sweden

|                   | location | log(scale) | log(shape) |
|-------------------|----------|------------|------------|
| Feb 1990--Jn 1993 | -4.7238  | -0.5287    | 8.2433     |
| Feb 1993--Mr 2010 | -0.0997  | -1.2714    | 0.6233     |

|                   | mean   | variance | skewness |
|-------------------|--------|----------|----------|
| Feb 1990--Jn 1993 | 0.4748 | 0.5715   | 1.1393   |
| Feb 1993--Mr 2010 | 0.1552 | 0.1848   | 0.5344   |



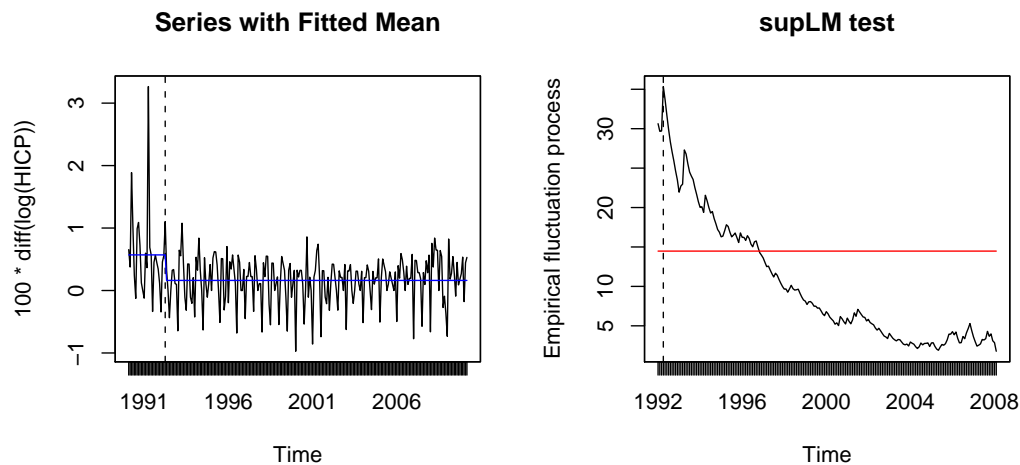
**LWZ and Negative Log-Likelihood**



# UnitedKingdom

|                    | location | log(scale) | log(shape) |
|--------------------|----------|------------|------------|
| Feb 1990--Apr 1992 | -3.287   | -0.7238    | 7.378      |
| Mai 1992--Mr 2010  | 0.442    | -2.1474    | -1.052     |

|                    | mean   | variance | skewness |
|--------------------|--------|----------|----------|
| Feb 1990--Apr 1992 | 0.5703 | 0.3869   | 1.139    |
| Mai 1992--Mr 2010  | 0.1615 | 0.1490   | -1.265   |



**LWZ and Negative Log-Likelihood**

