Validation process for SUCRE

The epidemiology research group, EAFIT

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Chapter 1. Extension number 1

1.1. Basic information

The extension to be validated consists of the time series from the data1 to the 77. The status of the validation is: COMPLETED.

The number of estimations needed to perform the validation was 2000.

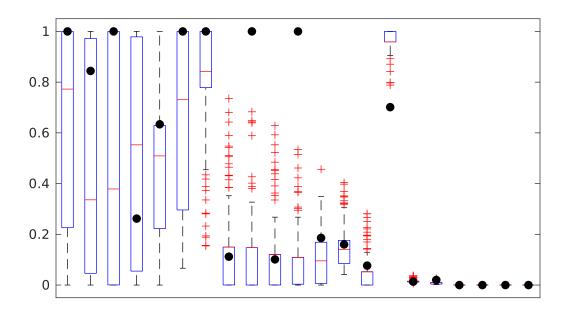
1.2. Estimated parameters with their intervals

It was necessary to fix 0 parameters of 11 that could be fixed to complete validation.

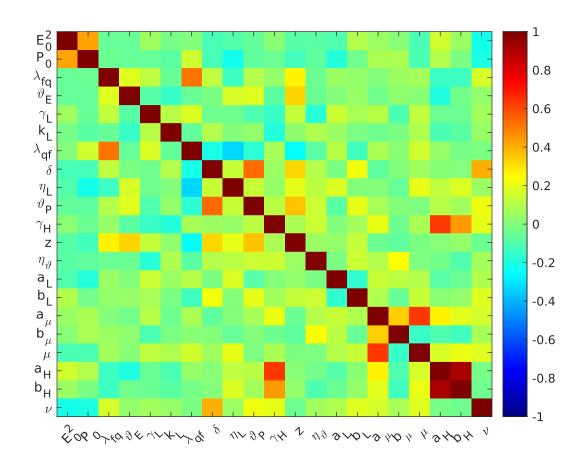
Due to a deviation from the median the CSB method was activated to obtain the

parameter intervals.

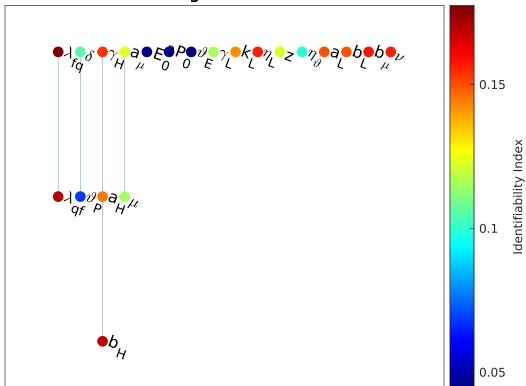
parameter interva	Ran	go	Nominal	Mejor	Index
E^2_0	'0.0032'	'0.0042'	'0.0012'	'0.0032'	'0.0457'
P_0	'0'	'0'	'0.0002'	'0'	'0.0501'
\lambda_{fq}	'0.9992'	'1'	'0.1474'	'1'	'0.1774'
\vartheta_E	'0'	'0'	'0'	'0'	'0.0446'
\gamma_L	'0'	'0.1587'	'0.0518'	'0.0767'	'0.1162'
k_L	'1'	'10'	'2.344'	'2.007'	'0.142'
\lambda_{qf}	'0.9992'	'1'	'0.7727'	'1'	'0.1698'
\delta	'0.003'	'0.0035'	'0.0015'	'0.003'	'0.105'
\eta_L	'0.0975'	'0.9549'	'0.5528'	'0.262'	'0.1564'
\vartheta_P	'0'	'0'	'0'	'0'	'0.0686'
\gamma_H	'0.5564'	'1'	'0.7307'	'1'	'0.1546'
Z	'4.7455'	'4.9522'	'4.2095'	'4.8026'	'0.1226'
\eta_\vartheta	'0.3161'	'0.965'	'0.9589'	'0.7014'	'0.0993'
a_L	'4.4707'	'15'	'5.7044'	'12.8185'	'0.1504'
b_L	'1.6913'	'15'	'2.6869'	'2.4165'	'0.1494'
a_\mu	'2.5044'	'3.7232'	'2.3364'	'3.5993'	'0.1238'
b_\mu	'9.473'	'15'	'6.3038'	'14.9998'	'0.158'
\mu	'0.0097'	'0.0134'	'0.0152'	'0.0134'	'0.1153'
a_H	'8.7354'	'10.0187'	'8.1288'	'9.8734'	'0.1447'
b_H	'12.4138'	'15'	'12.7844'	'14.9999'	'0.169'
\nu	'264.8439'	'500'	'54.5379'	'499.9909'	'0.1566'

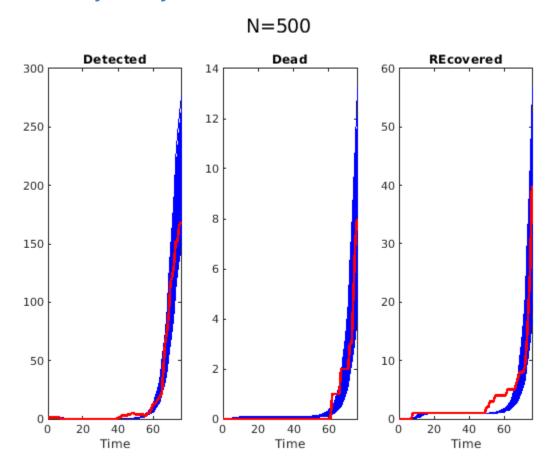












Chapter 2. Extension number 2

2.1. Basic information

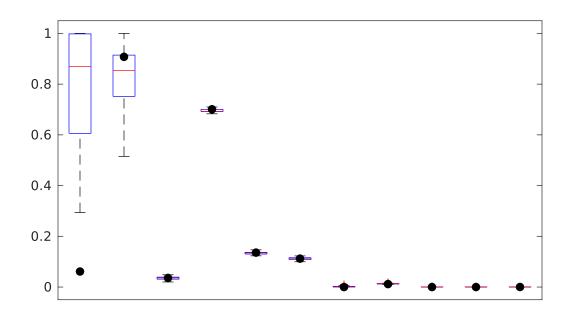
The extension to be validated consists of the time series from the data77 to the 113. The status of the validation is: COMPLETED.

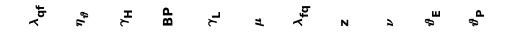
The number of estimations needed to perform the validation was 33000.

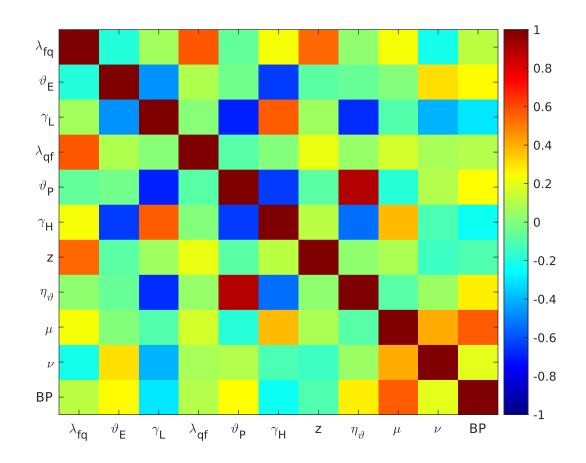
2.2. Estimated parameters with their intervals

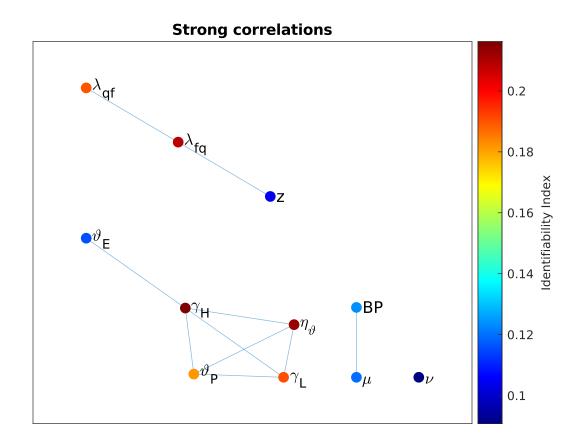
It was necessary to fix 9 parameters of 10 that could be fixed to complete validation.

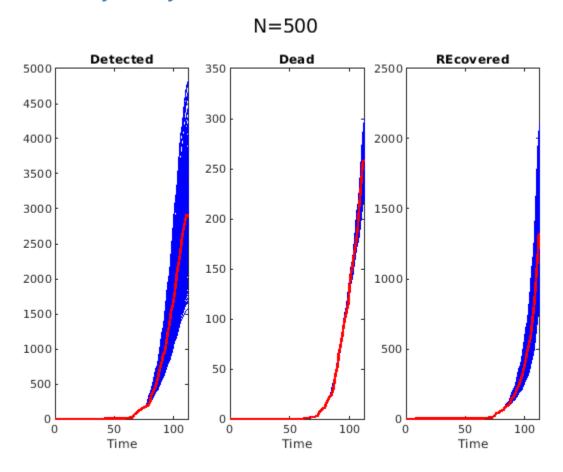
	Rar	ngo	Nominal	Mejor	Index
\lambda_{fq}	'0'	'0.1338'	'0.0027'	'0'	'0.2088'
\vartheta_E	'0.0001'	'0.0003'	'0.0002'	'0'	'0.1159'
\gamma_L	'0.1332'	'0.136'	'0.1346'	'0.1358'	'0.1905'
k_L	'5.6305'	'5.6305'	'5.6305'	'5.6305'	'0'
\lambda_{qf}	'0.7776'	'0.9601'	'0.8689'	'0.0611'	'0.1902'
\delta	'0.0014'	'0.0014'	'0.0014'	'0.0014'	'0'
\eta_L	'0.6979'	'0.6979'	'0.6979'	'0.6979'	'0'
\vartheta_P	'0.0001'	'0.0002'	'0.0001'	'0.0002'	'0.1816'
\gamma_H	'0.0341'	'0.0377'	'0.0359'	'0.0359'	'0.2162'
Z	'0.2898'	'0.53'	'0.4099'	'0.3498'	'0.1042'
\eta_\vartheta	'0.8149'	'0.892'	'0.8535'	'0.9076'	'0.2128'
a_L	'1.4762'	'1.4762'	'1.4762'	'1.4762'	'0'
b_L	'13.5746'	'13.5746'	'13.5746'	'13.5746'	'0'
a_\mu	'3.8426'	'3.8426'	'3.8426'	'3.8426'	'0'
b_\mu	'2.201'	'2.201'	'2.201'	'2.201'	'0'
\mu	'0.1113'	'0.1152'	'0.1133'	'0.1121'	'0.1197'
a_H	'3.4829'	'3.4829'	'3.4829'	'3.4829'	'0'
b_H	'3.8547'	'3.8547'	'3.8547'	'3.8547'	'0'
\nu	'0.0112'	'0.2308'	'0.121'	'0.0057'	'0.0908'
ВР	'78.3036'	'78.7114'	'78.5075'	'79.5'	'0.124'











Chapter 3. Extension number 3

3.1. Basic information

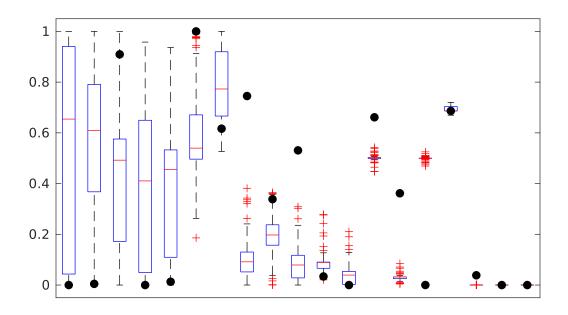
The extension to be validated consists of the time series from the data113 to the 136. The status of the validation is: COMPLETED.

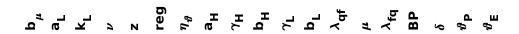
The number of estimations needed to perform the validation was11000.

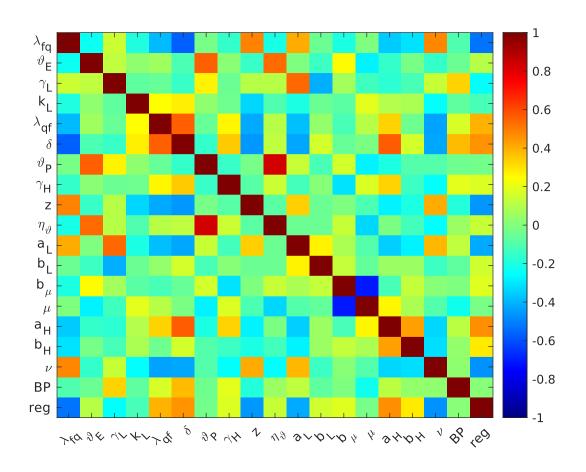
3.2. Estimated parameters with their intervals

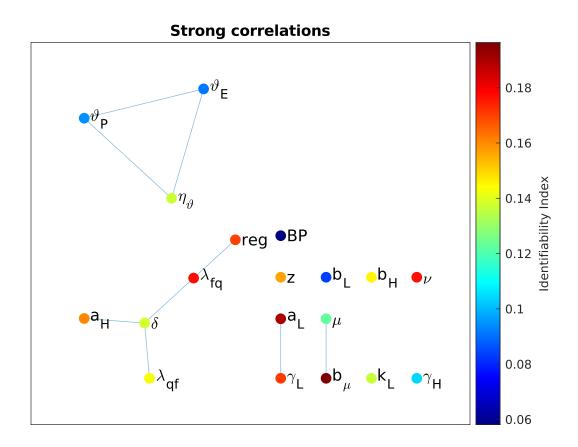
It was necessary to fix 2 parameters of 11 that could be fixed to complete validation.

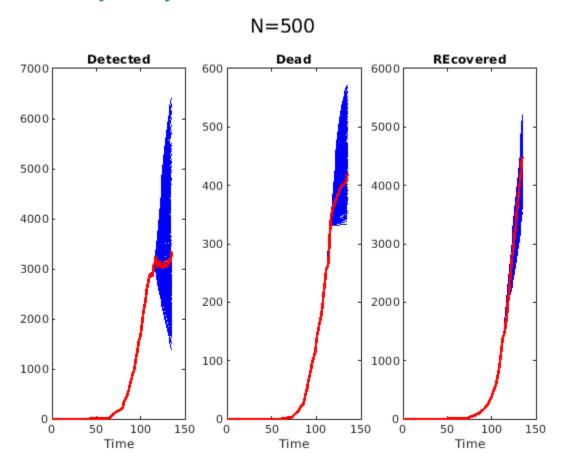
10 Was necessary to		ngo	Nominal	Mejor	Index
\lambda_{fq}	'0.4383'	'0.5607'	'0.4995'	'0.0001'	'0.1771'
\vartheta_E	'0'	'0.0001'	'0'	'0'	'0.0913'
\gamma_L	'0.0013'	'0.1797'	'0.0905'	'0.0339'	'0.1706'
k_L	'4.7207'	'6.1407'	'5.4307'	'9.1852'	'0.1369'
\lambda_{qf}	'0.4529'	'0.5515'	'0.5022'	'0.6614'	'0.1431'
\delta	'0'	'0.0006'	'0'	'0.0058'	'0.1385'
\eta_L	'0.7494'	'0.7494'	'0.7494'	'0.7494'	'0'
\vartheta_P	'0'	'0.0001'	'0'	'0'	'0.0948'
\gamma_H	'0.1603'	'0.239'	'0.1996'	'0.3386'	'0.1041'
Z	'11.406'	'15.9501'	'13.678'	'0.3909'	'0.1565'
\eta_\vartheta	'0.7325'	'0.8134'	'0.773'	'0.6164'	'0.137'
a_L	'8.2548'	'10.789'	'9.5219'	'1.065'	'0.1903'
b_L	'1.1227'	'2.0114'	'1.5671'	'1'	'0.0839'
a_\mu	'5.1171'	'5.1171'	'5.1171'	'5.1171'	'0'
b_\mu	'8.4627'	'11.8575'	'10.1601'	'1.0003'	'0.1963'
\mu	'0'	'0.0835'	'0.0324'	'0.3618'	'0.1225'
a_H	'1.4347'	'3.1338'	'2.2842'	'11.4327'	'0.1607'
b_H	'1'	'3.2723'	'2.1102'	'8.4339'	'0.1454'
\nu	'160.5479'	'250.0254'	'205.2867'	'0.0001'	'0.1767'
BP	'117.2779'	'117.7221'	'117.5'	'117.5'	'0.0581'
reg	'0.1183'	'0.1528'	'0.1355'	'0.25'	'0.1693'











Chapter 4. Extension number4

4.1. Basic information

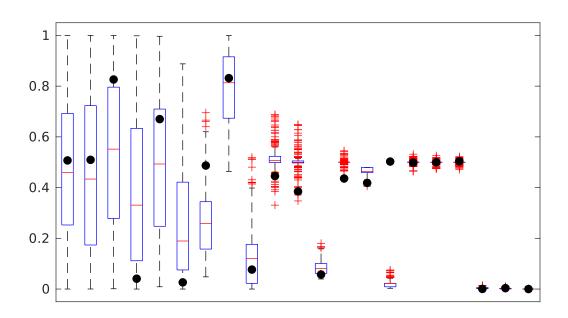
The extension to be validated consists of the time series from the data136 to the 162. The status of the validation is: COMPLETED.

The number of estimations needed to perform the validation was 1000.

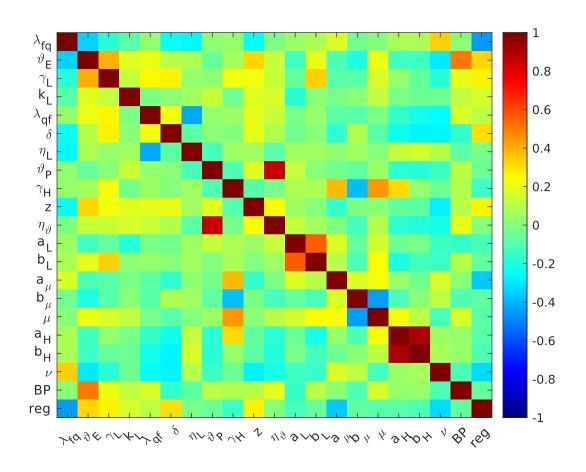
4.2. Estimated parameters with their intervals

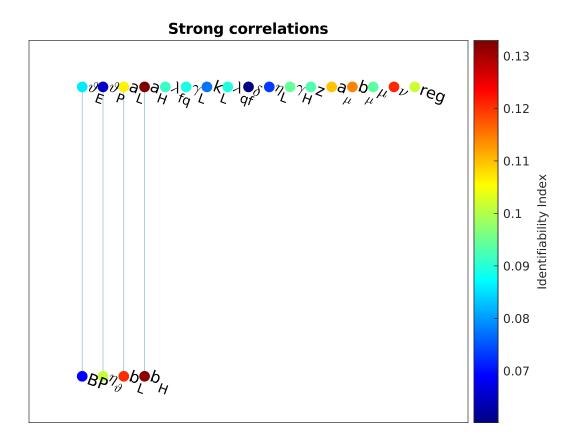
It was necessary to fix 0 parameters of 11 that could be fixed to complete validation.

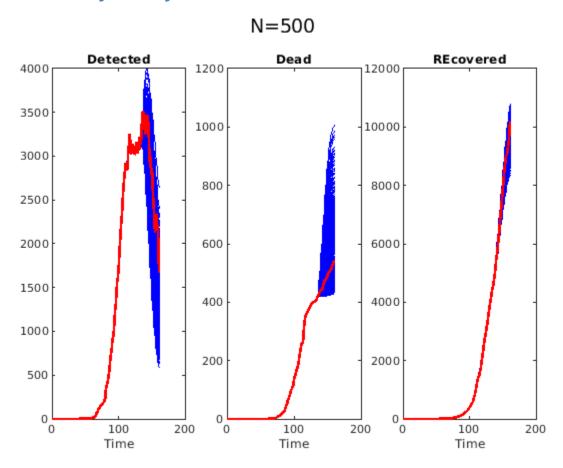
	Rango		Nominal		Index
	Kai	igo	NUIIIIII	Mejor	Hidex
\lambda_{fq}	'0.4654'	'0.5345'	'0.5'	'0.4984'	'0.0914'
\vartheta_E	'0.0026'	'0.0045'	'0.0035'	'0.0005'	'0.0859'
\gamma_L	'0.0559'	'0.1066'	'0.0812'	'0.0575'	'0.0889'
k_L	'5.2026'	'5.7924'	'5.4975'	'4.4653'	'0.0773'
\lambda_{qf}	'0.4667'	'0.5333'	'0.5'	'0.504'	'0.0894'
\delta	'0'	'0.0007'	'0.0003'	'0.0005'	'0.0601'
\eta_L	'0.4731'	'0.5264'	'0.4998'	'0.4998'	'0.0733'
\vartheta_P	'0.0001'	'0.0001'	'0.0001'	'0.0001'	'0.065'
\gamma_H	'0.2193'	'0.2977'	'0.2585'	'0.487'	'0.0948'
Z	'14.2037'	'16.2291'	'15.2164'	'13.3661'	'0.093'
\eta_\vartheta	'0.7844'	'0.8422'	'0.8133'	'0.8316'	'0.1012'
a_L	'2.1009'	'3.303'	'2.7019'	'2.0745'	'0.1064'
b_L	'2.8976'	'4.4107'	'3.6541'	'1.3692'	'0.1205'
a_\mu	'6.6481'	'8.2158'	'7.432'	'8.0996'	'0.1098'
b_\mu	'4.7556'	'6.5093'	'5.6324'	'1.5714'	'0.1142'
\mu	'0'	'0.0682'	'0.0227'	'0.5027'	'0.0938'
a_H	'7.8952'	'9.551'	'8.7231'	'12.5671'	'0.1329'
b_H	'6.2087'	'7.9358'	'7.0722'	'8.1327'	'0.1319'
\nu	'218.0106'	'275.0424'	'246.5265'	'335.0251'	'0.1208'
BP	'135.5496'	'135.85'	'135.6998'	'133.5001'	'0.0692'
reg	'0.1155'	'0.1346'	'0.125'	'0.109'	'0.1019'











Chapter 5. Extension number 5

5.1. Basic information

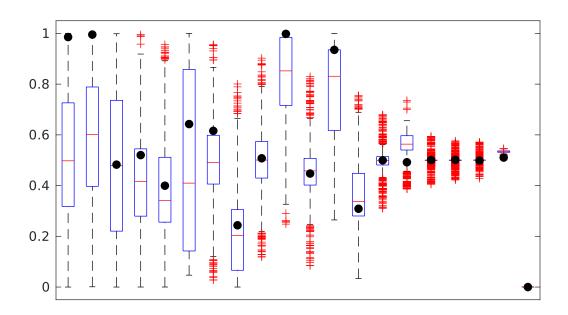
The extension to be validated consists of the time series from the data162 to the 184. The status of the validation is: COMPLETED.

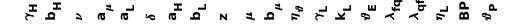
The number of estimations needed to perform the validation was 1000.

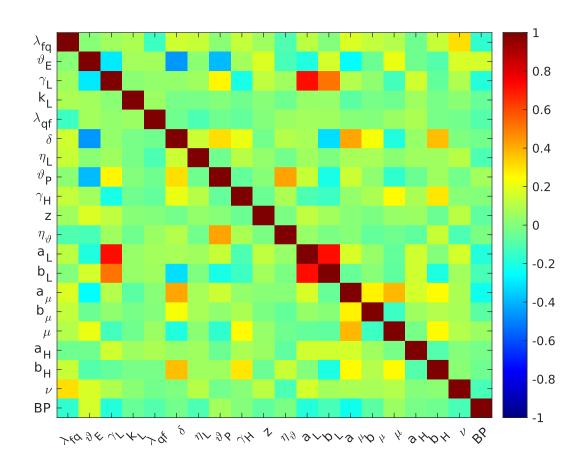
5.2. Estimated parameters with their intervals

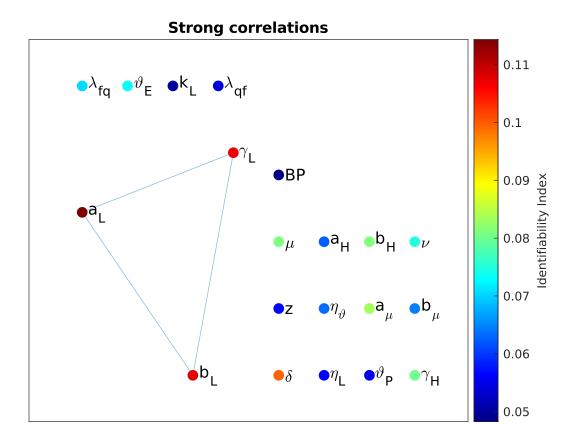
It was necessary to fix 0 parameters of 10 that could be fixed to complete validation.

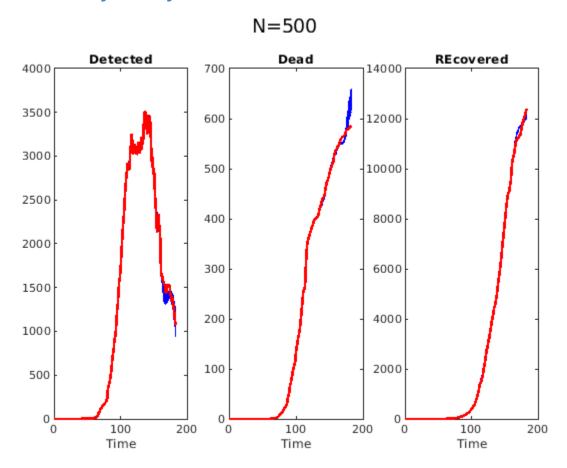
	Rar	ngo	Nominal	Mejor	Index
\lambda_{fq}	'0.4795'	'0.5196'	'0.4996'	'0.5007'	'0.0706'
\vartheta_E	'0.5518'	'0.575'	'0.5634'	'0.492'	'0.0735'
\gamma_L	'0.3189'	'0.3543'	'0.3366'	'0.3087'	'0.1069'
k_L	'5.3486'	'5.6414'	'5.495'	'5.4976'	'0.0502'
\lambda_{qf}	'0.4832'	'0.5168'	'0.5'	'0.5014'	'0.0541'
\delta	'0.0562'	'0.0667'	'0.0615'	'0.0964'	'0.0994'
\eta_L	'0.4836'	'0.5164'	'0.5'	'0.4986'	'0.0568'
\vartheta_P	'0'	'0'	'0'	'0'	'0.0554'
\gamma_H	'0.4676'	'0.5279'	'0.4977'	'0.9856'	'0.0801'
z	'14.4402'	'15.598'	'15.0191'	'15.2294'	'0.057'
\eta_\vartheta	'0.8114'	'0.8507'	'0.831'	'0.9351'	'0.0633'
a_L	'5.4344'	'6.1294'	'5.7819'	'6.5933'	'0.1143'
b_L	'3.5395'	'4.1364'	'3.838'	'4.4086'	'0.1077'
a_\mu	'6.5169'	'7.1463'	'6.8316'	'8.2836'	'0.0835'
b_\mu	'7.1161'	'7.7088'	'7.4125'	'7.2651'	'0.0646'
\mu	'0.8244'	'0.8802'	'0.8523'	'0.9981'	'0.0812'
a_H	'7.586'	'8.1626'	'7.8743'	'9.6211'	'0.0627'
b_H	'9.0218'	'9.8223'	'9.4221'	'14.9357'	'0.0815'
\nu	'224.6755'	'254.8367'	'239.7561'	'241.2875'	'0.075'
ВР	'161.5047'	'161.6604'	'161.5825'	'160.5'	'0.0483'











Chapter 6. Extension number 6

6.1. Basic information

The extension to be validated consists of the time series from the data184 to the 237. The status of the validation is: COMPLETED.

The number of estimations needed to perform the validation was 1000.

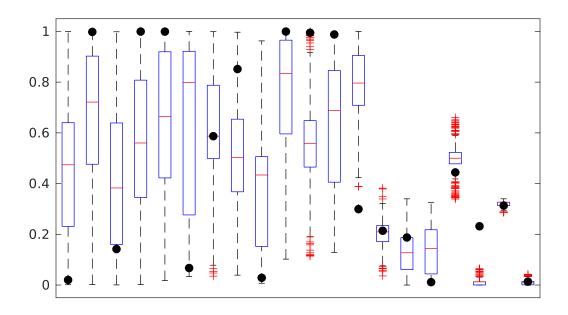
6.2. Estimated parameters with their intervals

It was necessary to fix 0 parameters of 10 that could be fixed to complete validation.

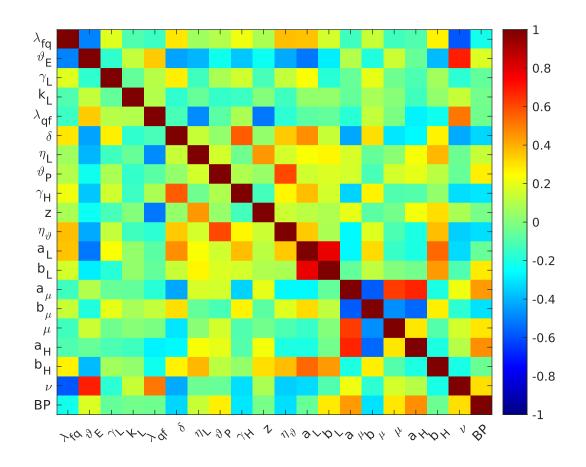
Due to a deviation from the median the CSB method was activated to obtain the

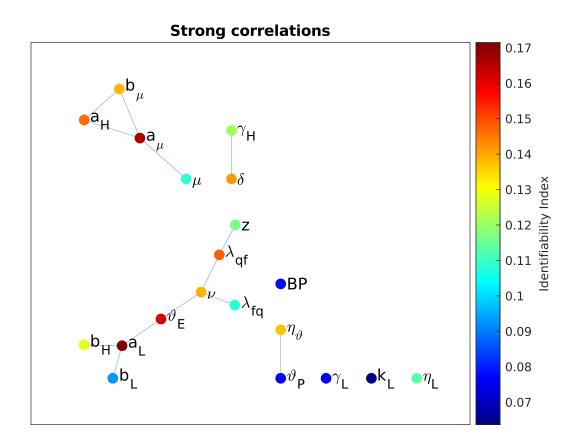
parameter intervals.

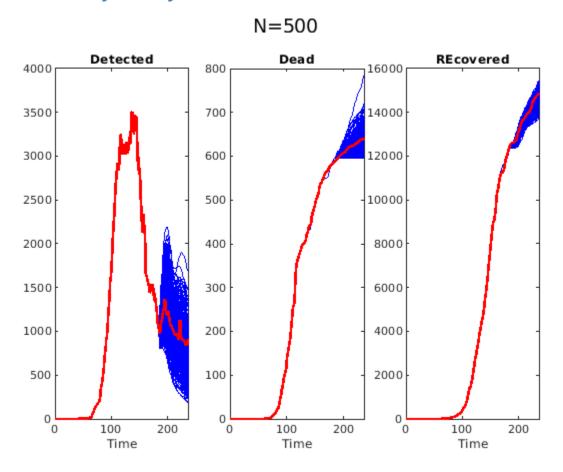
parameter interva	Ran	go	Nominal	Mejor	Index
\lambda_{fq}	'0.1984'	'0.2561'	'0.0129'	'0.2318'	'0.1085'
\vartheta_E	'0.1205'	'0.6515'	'0.7964'	'0.2994'	'0.1622'
\gamma_L	'0.1187'	'0.2176'	'0.2097'	'0.2141'	'0.0752'
k_L	'1.1656'	'9.28'	'5.5005'	'4.9973'	'0.0637'
\lambda_{qf}	'0.0606'	'0.0787'	'0.7987'	'0.0671'	'0.1476'
\delta	'0.0285'	'0.15'	'0.1251'	'0.1499'	'0.1415'
\eta_L	'0.7868'	'1'	'0.56'	'0.9994'	'0.113'
\vartheta_P	'0.0049'	'0.0294'	'0.0086'	'0.0135'	'0.0771'
\gamma_H	'0'	'1'	'0.5871'	'0.5869'	'0.121'
Z	'19.5534'	'30'	'19.9272'	'29.9752'	'0.1166'
\eta_\vartheta	'0.6283'	'1'	'0.6887'	'0.988'	'0.1372'
a_L	'9.4261'	'15'	'11.0991'	'14.9723'	'0.1715'
b_L	'1.7838'	'4.936'	'2.7826'	'3.6253'	'0.0931'
a_\mu	'1'	'15'	'7.6382'	'1.2834'	'0.1662'
b_\mu	'1'	'13.768'	'8.0379'	'12.9223'	'0.1384'
\mu	'0'	'0.0645'	'0.4339'	'0.0287'	'0.1085'
a_H	'1.266'	'14.3'	'6.3603'	'2.9862'	'0.1463'
b_H	'3.66'	'15'	'8.8241'	'14.9262'	'0.1277'
\nu	'4.6798'	'7.7888'	'72.3171'	'5.7536'	'0.139'
ВР	'184.5379'	'186.999'	'186.5'	'185.4997'	'0.0782'











Chapter 7. Extension number 7

7.1. Basic information

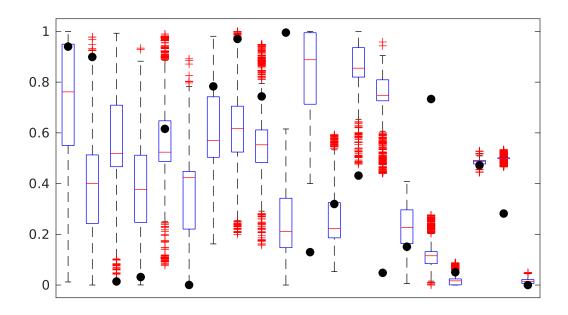
The extension to be validated consists of the time series from the data237 to the 293. The status of the validation is: COMPLETED.

The number of estimations needed to perform the validation was 1000.

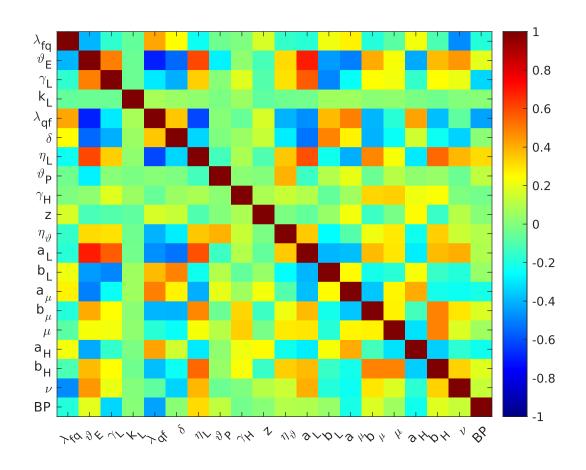
7.2. Estimated parameters with their intervals

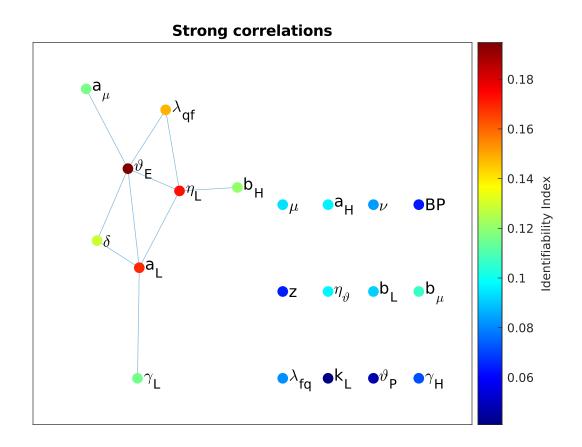
It was necessary to fix 0 parameters of 10 that could be fixed to complete validation.

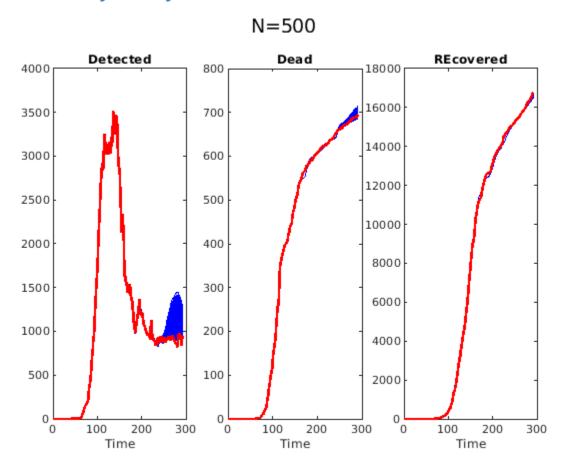
1t was necessary to	Rar		Nominal	Mejor	Index
\lambda_{fq}	'0.0074'	'0.0257'	'0.0166'	'0.0504'	'0.0815'
\vartheta_E	'0.7313'	'0.765'	'0.7481'	'0.0481'	'0.1948'
\gamma_L	'0.4077'	'0.4388'	'0.4233'	'0.0003'	'0.116'
k_L	'5.4352'	'5.5654'	'5.5003'	'3.5365'	'0.041'
\lambda_{qf}	'0.2038'	'0.242'	'0.2229'	'0.3195'	'0.148'
\delta	'0.0294'	'0.034'	'0.0317'	'0.1493'	'0.1288'
\eta_L	'0.7425'	'0.7808'	'0.7616'	'0.9401'	'0.1729'
\vartheta_P	'0.0118'	'0.0147'	'0.0133'	'0'	'0.0477'
\gamma_H	'0.5024'	'0.5453'	'0.5239'	'0.6158'	'0.0719'
Z	'18.0457'	'18.9408'	'18.4933'	'29.1087'	'0.0641'
\eta_\vartheta	'0.8376'	'0.8724'	'0.855'	'0.4316'	'0.0972'
a_L	'13.2135'	'13.6595'	'13.4365'	'2.8163'	'0.1694'
b_L	'2.457'	'2.7771'	'2.617'	'11.2684'	'0.0913'
a_\mu	'6.0777'	'6.4866'	'6.2822'	'1.4425'	'0.1163'
b_\mu	'8.5019'	'8.981'	'8.7415'	'11.4128'	'0.1065'
\mu	'0.4988'	'0.538'	'0.5184'	'0.0142'	'0.0944'
a_H	'6.3884'	'6.8341'	'6.6113'	'13.5886'	'0.0968'
b_H	'8.7266'	'9.212'	'8.9693'	'11.9665'	'0.1206'
\nu	'110.5409'	'117.0291'	'113.785'	'75.5835'	'0.0836'
ВР	'236.8235'	'237.43'	'237.1268'	'235.5'	'0.0634'











Chapter 8. Extension number 8

8.1. Basic information

The extension to be validated consists of the time series from the data293 to the 323. The status of the validation is: COMPLETED.

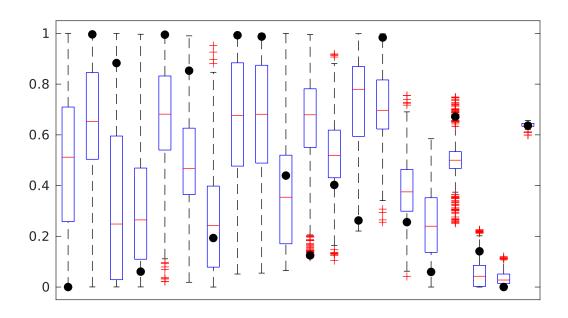
The number of estimations needed to perform the validation was 1000.

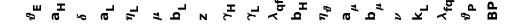
8.2. Estimated parameters with their intervals

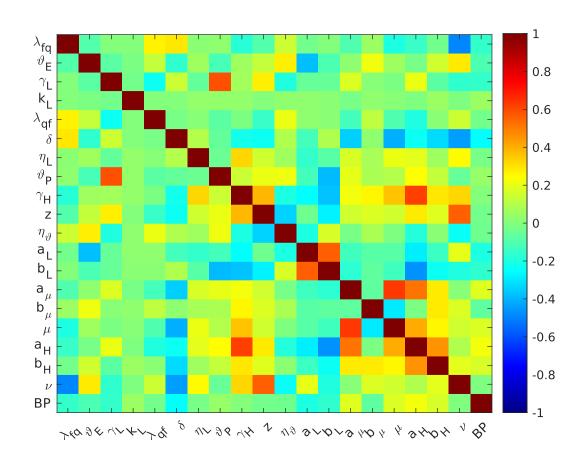
It was necessary to fix 0 parameters of 10 that could be fixed to complete validation.

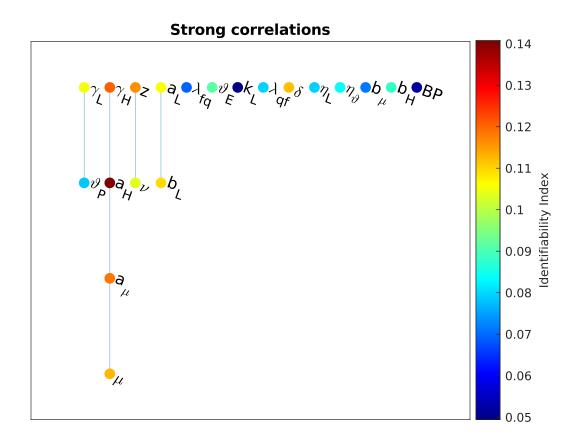
Due to a deviation from the median the CSB method was activated to obtain the

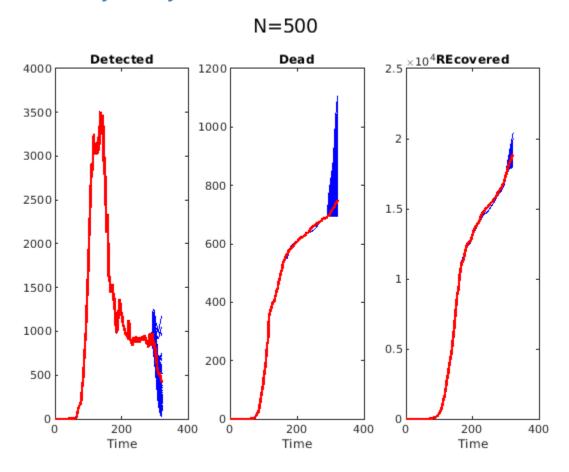
	Rango		Nominal	Mejor	Index
\lambda_{fq}	'0.0806'	'0.7242'	'0.0426'	'0.141'	'0.0695'
\vartheta_E	'0'	'0.0002'	'0.5119'	'0.0001'	'0.0918'
\gamma_L	'0.3604'	'0.4495'	'0.3541'	'0.4394'	'0.1052'
k_L	'1'	'10'	'5.5006'	'7.0441'	'0.0494'
\lambda_{qf}	'0'	'0.2809'	'0.6787'	'0.1249'	'0.0795'
\delta	'0.0753'	'0.15'	'0.0373'	'0.1325'	'0.1119'
\eta_L	'0.025'	'1'	'0.6815'	'0.9949'	'0.0792'
\vartheta_P	'0'	'0.0003'	'0.0278'	'0.0001'	'0.0786'
\gamma_H	'0.1'	'1'	'0.6812'	'0.9874'	'0.1206'
Z	'16.1307'	'30'	'20.2762'	'29.7826'	'0.1163'
\eta_\vartheta	'0.2424'	'0.2986'	'0.7791'	'0.2625'	'0.084'
a_L	'1.4646'	'1.9005'	'4.7062'	'1.8514'	'0.1058'
b_L	'3.6263'	'4.4267'	'4.3999'	'3.7065'	'0.1096'
a_\mu	'7.3964'	'15'	'10.753'	'14.772'	'0.1185'
b_\mu	'1'	'7.6343'	'6.2548'	'4.5827'	'0.0713'
\mu	'0'	'1'	'0.4681'	'0.8531'	'0.1127'
a_H	'7.525'	'15'	'10.1398'	'14.9463'	'0.1408'
b_H	'1'	'9.064'	'8.2564'	'6.6372'	'0.0881'
\nu	'19.9775'	'29.8202'	'119.9095'	'29.7964'	'0.1038'
BP	'291.495'	'293.9485'	'291.5'	'291.7407'	'0.0521'











Chapter 9. Extension number9

9.1. Basic information

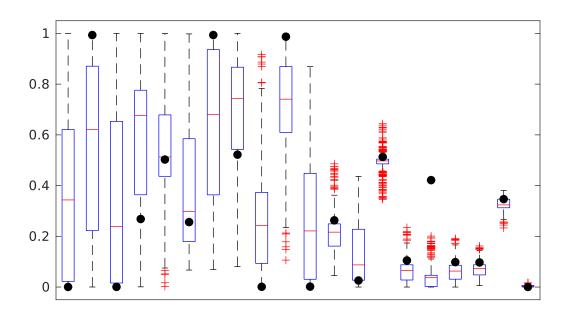
The extension to be validated consists of the time series from the data323 to the 391. The status of the validation is: COMPLETED.

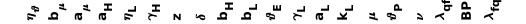
The number of estimations needed to perform the validation was 1000.

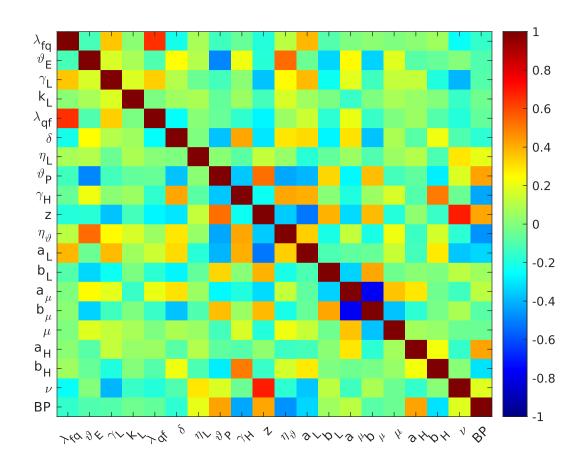
9.2. Estimated parameters with their intervals

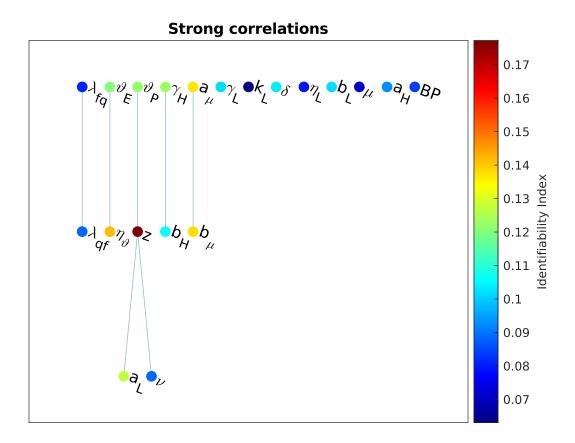
It was necessary to fix 0 parameters of 10 that could be fixed to complete validation.

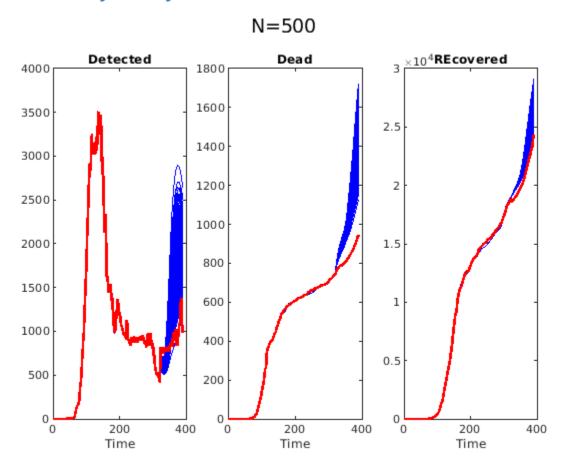
	Rango		Nominal	Mejor	Index
\lambda_{fq}	'0'	'0.0149'	'0.0031'	'0.0004'	'0.0809'
\vartheta_E	'0.1834'	'0.2593'	'0.2213'	'0.0016'	'0.1202'
\gamma_L	'0.187'	'0.2458'	'0.2164'	'0.263'	'0.1021'
k_L	'5.2831'	'5.6695'	'5.4763'	'5.6172'	'0.0631'
\lambda_{qf}	'0.0584'	'0.0871'	'0.0728'	'0.097'	'0.0886'
\delta	'0.1074'	'0.1156'	'0.1115'	'0.0783'	'0.1039'
\eta_L	'0.4799'	'0.5455'	'0.5127'	'0.5027'	'0.0792'
\vartheta_P	'0.0149'	'0.0594'	'0.0371'	'0.4215'	'0.1219'
\gamma_H	'0.2609'	'0.3349'	'0.2979'	'0.2562'	'0.1228'
Z	'19.1309'	'21.7038'	'20.4174'	'29.8112'	'0.1772'
\eta_\vartheta	'0.2981'	'0.389'	'0.3435'	'0.0005'	'0.1415'
a_L	'1.7767'	'2.6691'	'2.2229'	'1.3626'	'0.1271'
b_L	'10.8491'	'11.8898'	'11.3695'	'14.8189'	'0.102'
a_\mu	'3.6737'	'4.996'	'4.3349'	'1.0096'	'0.1367'
b_\mu	'9.0108'	'10.3946'	'9.7027'	'14.9095'	'0.1378'
\mu	'0.0481'	'0.0818'	'0.065'	'0.1049'	'0.0708'
a_H	'9.9146'	'11.0236'	'10.4691'	'4.7547'	'0.0932'
b_H	'3.9119'	'4.8847'	'4.3983'	'1.0136'	'0.1063'
\nu	'27.7407'	'35.1586'	'31.4497'	'49.1255'	'0.0886'
BP	'320.7747'	'322.2253'	'321.5'	'323.4999'	'0.0843'











Chapter 10. Extension number 10

10.1. Basic information

The extension to be validated consists of the time series from the data391 to the 421. The status of the validation is: COMPLETED.

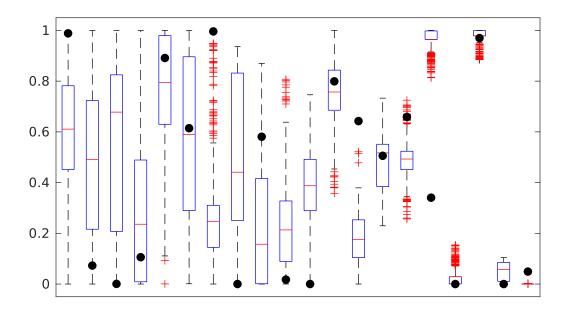
The number of estimations needed to perform the validation was 1000.

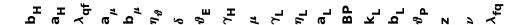
10.2. Estimated parameters with their intervals

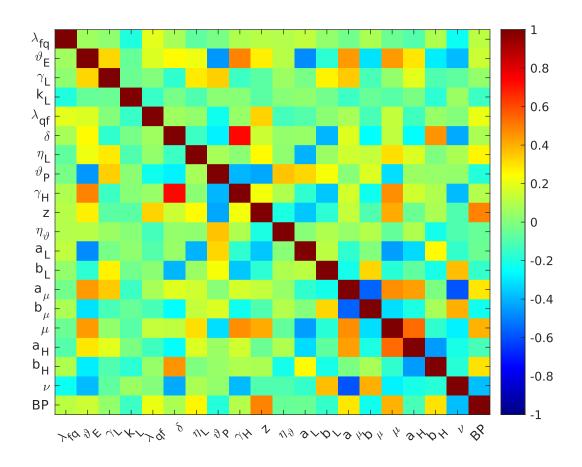
It was necessary to fix 0 parameters of 10 that could be fixed to complete validation.

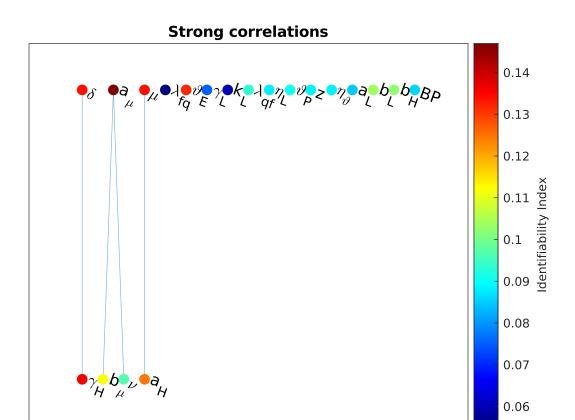
Due to a deviation from the median the CSB method was activated to obtain the

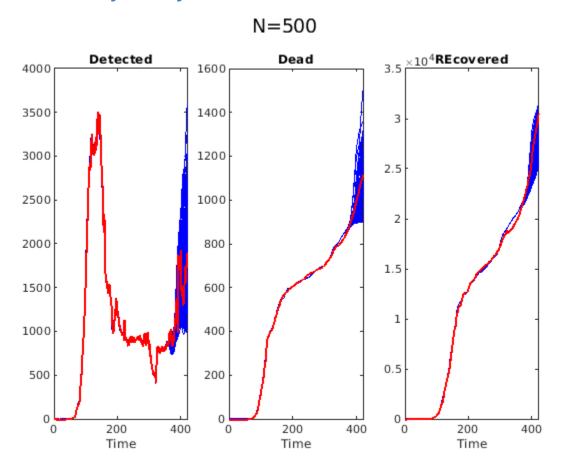
parameter interva	Rango		Nominal	Mejor	Index
\lambda_{fq}	'0.0394'	'0.0503'	'0.0003'	'0.0491'	'0.0554'
\vartheta_E	'0'	'0.0002'	'0.4409'	'0.0001'	'0.1318'
\gamma_L	'0'	'0.0002'	'0.3875'	'0.0001'	'0.0753'
k_L	'1'	'9.1'	'5.4359'	'6.9317'	'0.0597'
\lambda_{qf}	'0'	'0.0015'	'0.6779'	'0.0007'	'0.0936'
\delta	'0.0923'	'0.15'	'0.0371'	'0.1494'	'0.1337'
\eta_L	'0.5484'	'0.9503'	'0.7569'	'0.7992'	'0.0882'
\vartheta_P	'0'	'0.0001'	'0.029'	'0'	'0.0908'
\gamma_H	'0.4313'	'0.826'	'0.1599'	'0.5808'	'0.1361'
Z	'22.1663'	'29.2125'	'29.3551'	'29.0948'	'0.0885'
\eta_\vartheta	'0.5959'	'0.6435'	'0.5897'	'0.6144'	'0.0886'
a_L	'1.35'	'15'	'3.4744'	'9.9947'	'0.0851'
b_L	'1'	'15'	'14.4963'	'5.7671'	'0.1039'
a_\mu	'1'	'14.44'	'4.3024'	'2.4818'	'0.1469'
b_\mu	'1'	'14.3'	'12.1194'	'13.4776'	'0.1119'
\mu	'0'	'0.0379'	'0.2135'	'0.0175'	'0.1339'
a_H	'1.0728'	'2.468'	'7.8793'	'2.0199'	'0.1247'
b_H	'7.058'	'15'	'9.5518'	'14.8383'	'0.1023'
\nu	'0.0001'	'0.002'	'28.4732'	'0.0009'	'0.0971'
BP	'364.1117'	'397.7318'	'368.5'	'367.5'	'0.0858'











Chapter 11. Extension number 11

11.1. Basic information

The extension to be validated consists of the time series from the data421 to the 442. The status of the validation is: COMPLETED.

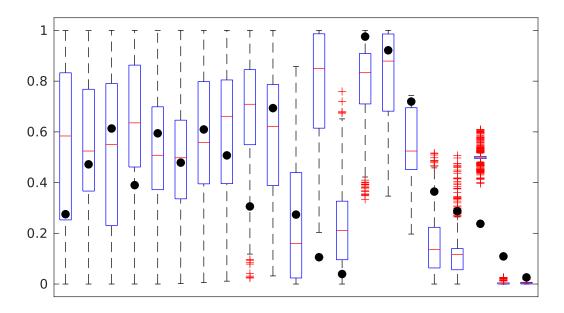
The number of estimations needed to perform the validation was 1000.

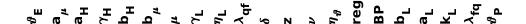
11.2. Estimated parameters with their intervals

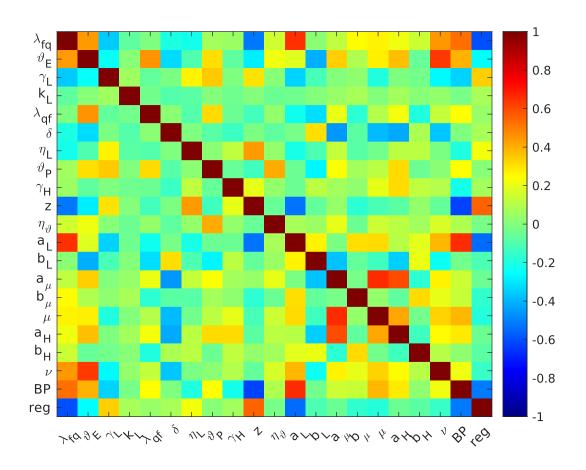
It was necessary to fix 0 parameters of 11 that could be fixed to complete validation.

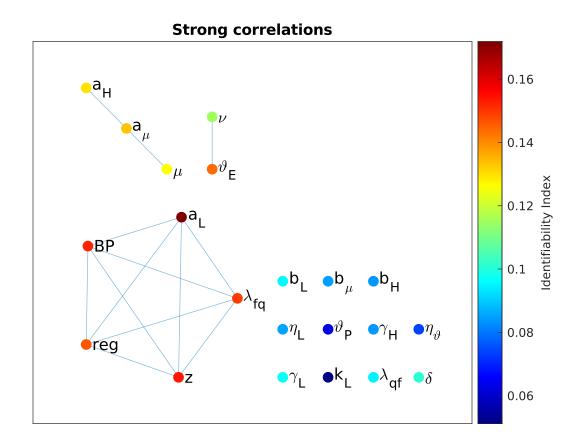
Due to a deviation from the median the CSB method was activated to obtain the

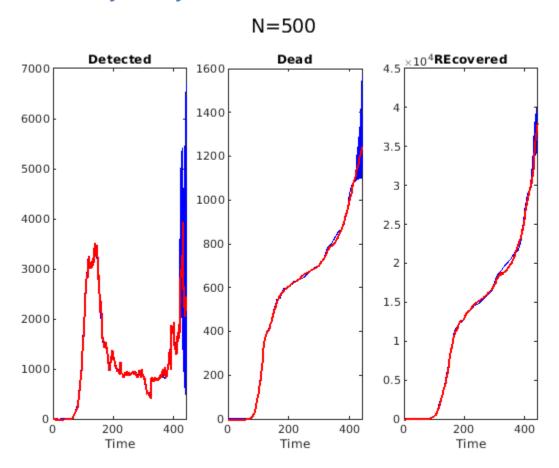
parameter interva	Rango		Nominal	Mejor	Index
\lambda_{fq}	'0.077'	'0.2381'	'0.0049'	'0.1091'	'0.1496'
\vartheta_E	'0.2625'	'0.6197'	'0.5837'	'0.2754'	'0.1437'
\gamma_L	'0.3432'	'0.5097'	'0.6614'	'0.5073'	'0.097'
k_L	'1.225'	'10'	'5.4995'	'3.139'	'0.0512'
\lambda_{qf}	'0.6098'	'0.8448'	'0.6206'	'0.6936'	'0.0946'
\delta	'0.0021'	'0.0832'	'0.024'	'0.0411'	'0.1013'
\eta_L	'0.2372'	'0.5558'	'0.7088'	'0.306'	'0.0852'
\vartheta_P	'0.0202'	'0.0319'	'0.004'	'0.0262'	'0.0629'
\gamma_H	'0'	'0.8775'	'0.6356'	'0.39'	'0.084'
Z	'2.1307'	'4.8482'	'25.4882'	'3.1737'	'0.1537'
\eta_\vartheta	'0.862'	'0.9833'	'0.8333'	'0.9757'	'0.0743'
a_L	'4.9897'	'7.2265'	'2.6433'	'5.0241'	'0.1719'
b_L	'4.8705'	'6.1783'	'2.9149'	'6.1038'	'0.0957'
a_\mu	'1.6913'	'15'	'8.3423'	'7.6076'	'0.1336'
b_\mu	'1'	'12.97'	'7.9697'	'7.7025'	'0.0849'
\mu	'0.025'	'1'	'0.5587'	'0.6096'	'0.1263'
a_H	'1'	'14.3'	'8.7033'	'9.5861'	'0.1297'
b_H	'1'	'14.3'	'8.1069'	'9.3205'	'0.0838'
\nu	'18.9179'	'31.5421'	'105.8071'	'19.7724'	'0.115'
BP	'420.4856'	'423.7817'	'412.5'	'420.5'	'0.1524'
reg	'0.1707'	'0.2308'	'0.2196'	'0.2304'	'0.146'











Chapter 12. Extension number 12

12.1. Basic information

The extension to be validated consists of the time series from the data442 to the 454. The status of the validation is: COMPLETED.

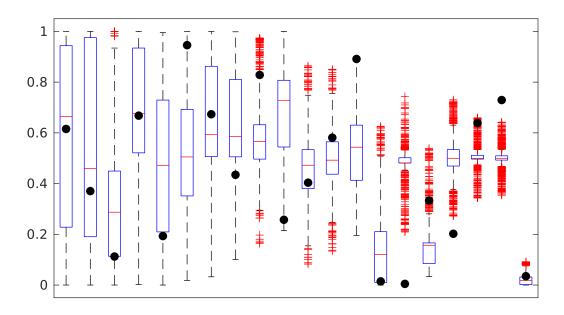
The number of estimations needed to perform the validation was 1000.

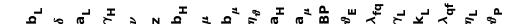
12.2. Estimated parameters with their intervals

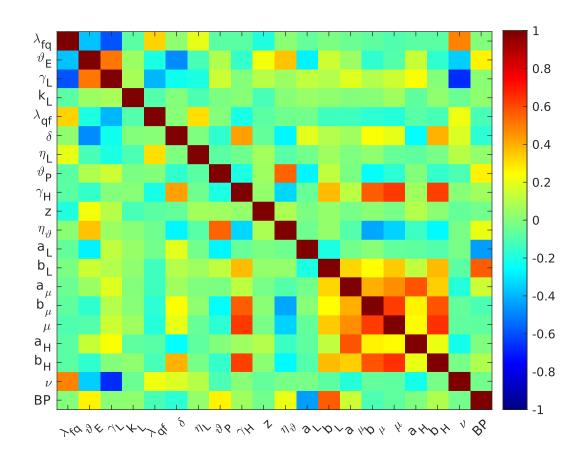
It was necessary to fix 0 parameters of 10 that could be fixed to complete validation.

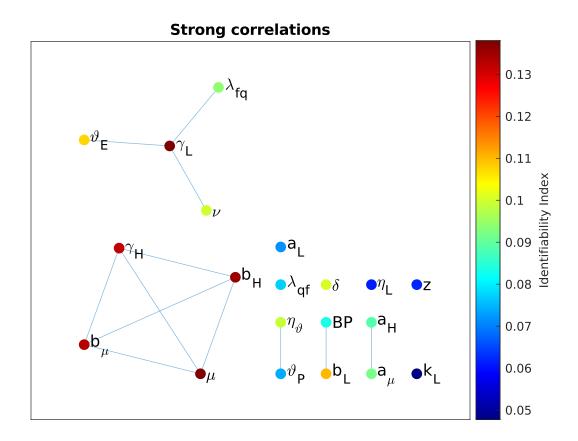
Due to a deviation from the median the CSB method was activated to obtain the

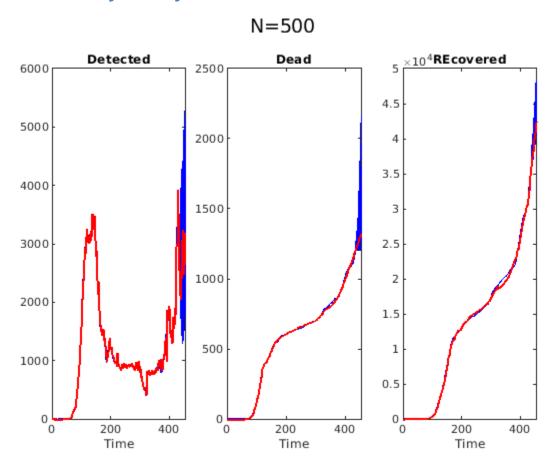
parameter interva	Rango		Nominal	Mejor	Index
\lambda_{fq}	'0'	'0.0104'	'0.4811'	'0.0046'	'0.0941'
\vartheta_E	'0'	'0.0325'	'0.121'	'0.0144'	'0.1074'
\gamma_L	'0.3258'	'0.5361'	'0.1568'	'0.3332'	'0.138'
k_L	'1'	'10'	'5.4978'	'2.8193'	'0.0477'
\lambda_{qf}	'0.0971'	'0.917'	'0.4992'	'0.639'	'0.077'
\delta	'0.003'	'0.12'	'0.0689'	'0.0556'	'0.1004'
\eta_L	'0'	'1'	'0.4997'	'0.7293'	'0.0615'
\vartheta_P	'0.0244'	'0.2841'	'0.0182'	'0.0349'	'0.0741'
\gamma_H	'0'	'1'	'0.6756'	'0.6679'	'0.1318'
Z	'13.4053'	'29.1703'	'15.1544'	'28.3697'	'0.0621'
\eta_\vartheta	'0.0116'	'0.579'	'0.7285'	'0.2574'	'0.0992'
a_L	'1.3633'	'3.2566'	'5.0201'	'2.574'	'0.0719'
b_L	'7.0466'	'15'	'10.309'	'9.6153'	'0.1103'
a_\mu	'2.7921'	'15'	'7.8924'	'9.1342'	'0.092'
b_\mu	'1'	'15'	'8.9305'	'12.5969'	'0.1334'
\mu	'0'	'0.978'	'0.5859'	'0.4347'	'0.1379'
a_H	'1.5919'	'14.3'	'7.6128'	'6.65'	'0.0889'
b_H	'1'	'15'	'9.2985'	'10.4271'	'0.1353'
\nu	'72.1263'	'106.8171'	'236.0616'	'96.5517'	'0.0997'
BP	'435.7125'	'443.337'	'433.5'	'441.5'	'0.0836'











Chapter 13. Extension number 13

13.1. Basic information

The extension to be validated consists of the time series from the data454 to the 463. The status of the validation is: COMPLETED.

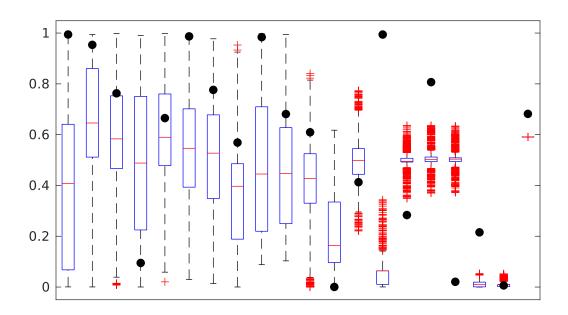
The number of estimations needed to perform the validation was 1000.

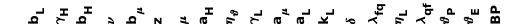
13.2. Estimated parameters with their intervals

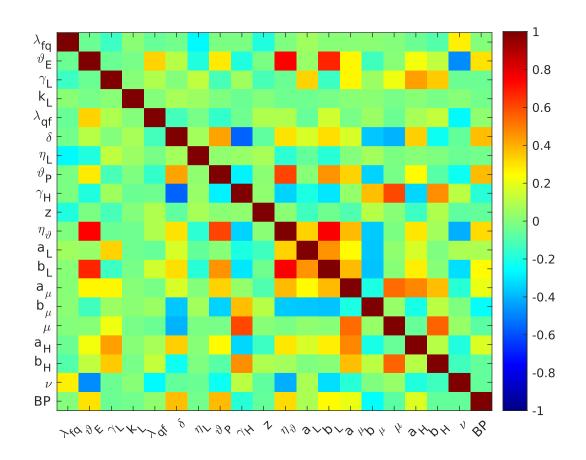
It was necessary to fix 0 parameters of 10 that could be fixed to complete validation.

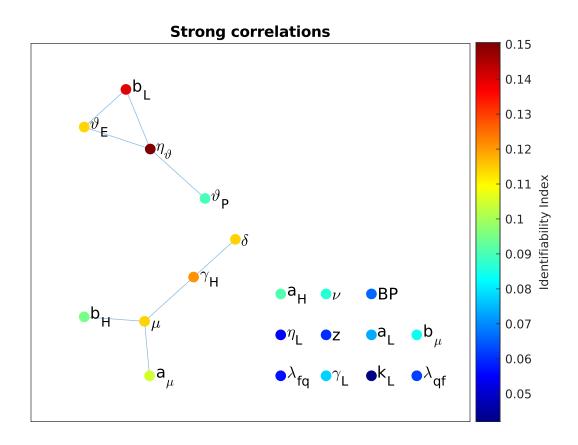
Due to a deviation from the median the CSB method was activated to obtain the

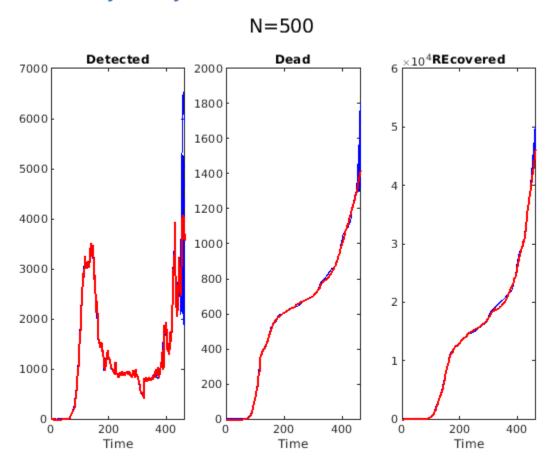
	Rango		Nominal	Mejor	Index
\lambda_{fq}	'0.0597'	'0.9263'	'0.4951'	'0.2835'	'0.0569'
\vartheta_E	'0.0003'	'0.0133'	'0.0098'	'0.0064'	'0.1139'
\gamma_L	'0.5974'	'0.6823'	'0.4467'	'0.6811'	'0.0778'
k_L	'1.3564'	'10'	'5.4827'	'4.7153'	'0.042'
\lambda_{qf}	'0.0032'	'0.0426'	'0.5035'	'0.0206'	'0.0623'
\delta	'0.1035'	'0.15'	'0.0096'	'0.1491'	'0.1141'
\eta_L	'0.025'	'1'	'0.5017'	'0.8068'	'0.0554'
\vartheta_P	'0.2038'	'0.3184'	'0.0098'	'0.2154'	'0.0902'
\gamma_H	'0.1'	'1'	'0.6459'	'0.9536'	'0.1208'
z	'1.2'	'30'	'16.3903'	'29.6081'	'0.0601'
\eta_\vartheta	'0.6513'	'1'	'0.445'	'0.984'	'0.1505'
a_L	'1'	'3.959'	'3.2841'	'1.0056'	'0.0737'
b_L	'9.1782'	'15'	'6.7032'	'14.9205'	'0.1395'
a_\mu	'6.9761'	'15'	'6.9801'	'9.5312'	'0.1048'
b_\mu	'1.2349'	'12.7466'	'9.2561'	'10.3128'	'0.084'
\mu	'0.0184'	'0.8764'	'0.5272'	'0.7762'	'0.1144'
a_H	'7.2727'	'14.1644'	'6.5552'	'8.9642'	'0.0909'
b_H	'1'	'12.6444'	'9.1675'	'11.6797'	'0.0952'
\nu	'23.5805'	'345.7756'	'244.0702'	'47.427'	'0.0865'
ВР	'449.4975'	'449.9815'	'448.5'	'449.5'	'0.0662'











Chapter 14. Extension number 14

14.1. Basic information

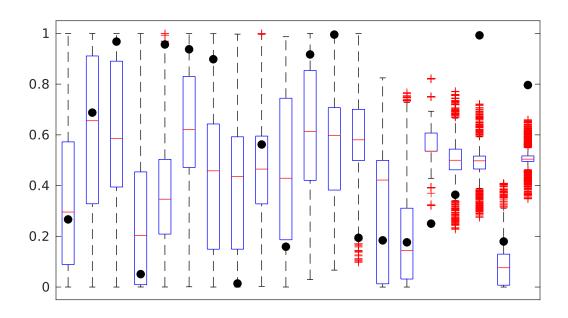
The extension to be validated consists of the time series from the data463 to the 478. The status of the validation is: COMPLETED.

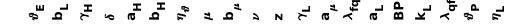
The number of estimations needed to perform the validation was 1000.

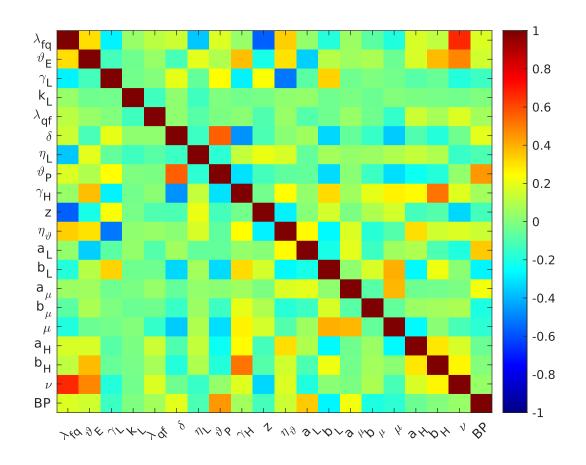
14.2. Estimated parameters with their intervals

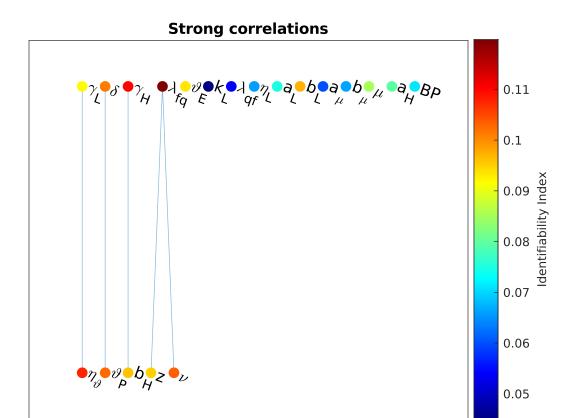
It was necessary to fix 0 parameters of 10 that could be fixed to complete validation.

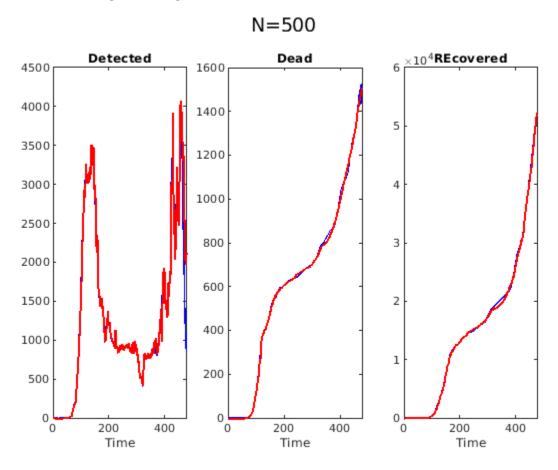
	Rango		Nominal	Mejor	Index
\lambda_{fq}	'0.4027'	'0.441'	'0.4218'	'0.1841'	'0.1198'
\vartheta_E	'0.2722'	'0.3192'	'0.2957'	'0.2667'	'0.0933'
\gamma_L	'0.5789'	'0.6153'	'0.5971'	'0.9953'	'0.092'
k_L	'5.3928'	'5.605'	'5.4989'	'4.2758'	'0.0451'
\lambda_{qf}	'0.4859'	'0.5094'	'0.4976'	'0.9924'	'0.0541'
\delta	'0.0271'	'0.034'	'0.0305'	'0.0076'	'0.1014'
\eta_L	'0.4936'	'0.5151'	'0.5043'	'0.7964'	'0.0659'
\vartheta_P	'0.0549'	'0.0973'	'0.0761'	'0.1796'	'0.1024'
\gamma_H	'0.562'	'0.611'	'0.5865'	'0.9677'	'0.1099'
Z	'17.7674'	'18.9937'	'18.3806'	'27.5094'	'0.095'
\eta_\vartheta	'0.4348'	'0.4816'	'0.4582'	'0.8983'	'0.1078'
a_L	'2.7336'	'3.2958'	'3.0147'	'3.469'	'0.0749'
b_L	'9.8219'	'10.5381'	'10.18'	'10.6277'	'0.0971'
a_\mu	'8.905'	'9.3493'	'9.1271'	'3.7183'	'0.0602'
b_\mu	'7.2628'	'7.7598'	'7.5113'	'8.8685'	'0.0662'
\mu	'0.4145'	'0.4563'	'0.4354'	'0.0141'	'0.0852'
a_H	'5.5934'	'6.1044'	'5.8489'	'14.388'	'0.0797'
b_H	'9.3681'	'10.0083'	'9.6882'	'14.1228'	'0.0959'
\nu	'202.4326'	'226.5464'	'214.4895'	'79.5326'	'0.1032'
ВР	'461.3633'	'461.6367'	'461.5'	'457.5'	'0.0712'











Chapter 15. Extension number 15

15.1. Basic information

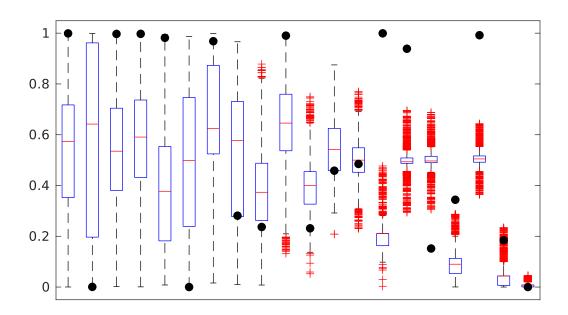
The extension to be validated consists of the time series from the data478 to the 485. The status of the validation is: COMPLETED.

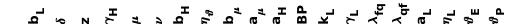
The number of estimations needed to perform the validation was 1000.

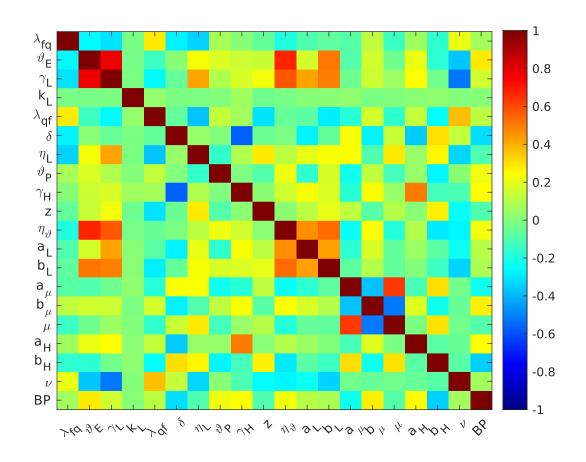
15.2. Estimated parameters with their intervals

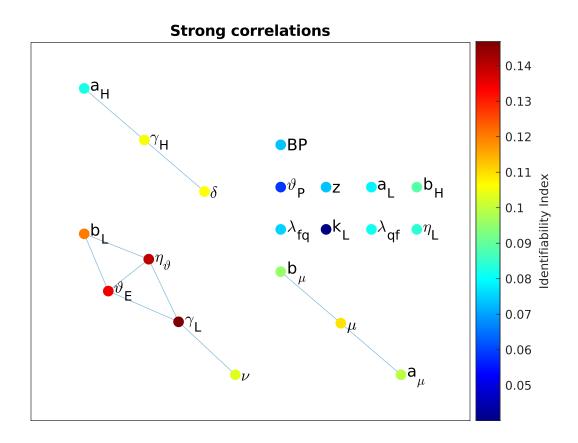
It was necessary to fix 0 parameters of 10 that could be fixed to complete validation.

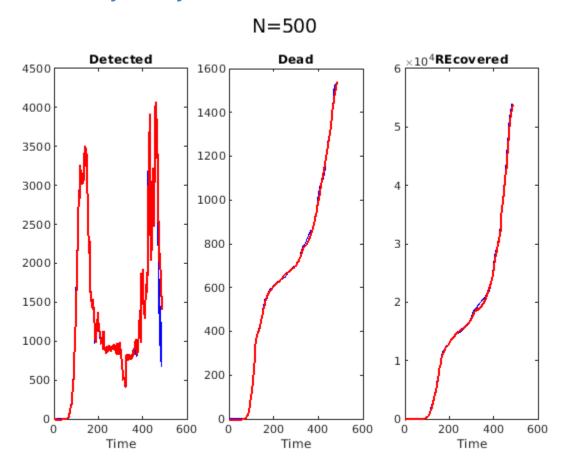
	Rango		Nominal	Mejor	Index
\lambda_{fq}	'0.4785'	'0.5084'	'0.4935'	'0.9386'	'0.0752'
\vartheta_E	'0.0287'	'0.0592'	'0.044'	'0.1841'	'0.1349'
\gamma_L	'0.189'	'0.2329'	'0.211'	'0.9993'	'0.1468'
k_L	'5.4037'	'5.5946'	'5.4991'	'5.3636'	'0.04'
\lambda_{qf}	'0.483'	'0.5102'	'0.4966'	'0.1518'	'0.0816'
\delta	'0.092'	'0.1006'	'0.0963'	'0.0001'	'0.1066'
\eta_L	'0.4934'	'0.516'	'0.5047'	'0.9919'	'0.0845'
\vartheta_P	'0.0031'	'0.0137'	'0.0084'	'0.0002'	'0.0589'
\gamma_H	'0.5743'	'0.6072'	'0.5907'	'0.9973'	'0.1057'
Z	'15.5328'	'16.5769'	'16.0548'	'29.9128'	'0.0734'
\eta_\vartheta	'0.5568'	'0.5968'	'0.5768'	'0.2811'	'0.1398'
a_L	'2.116'	'2.4032'	'2.2596'	'5.813'	'0.0791'
b_L	'8.7335'	'9.3183'	'9.0259'	'14.9864'	'0.1205'
a_\mu	'9.7983'	'10.2815'	'10.0399'	'14.8634'	'0.0993'
b_\mu	'6.0312'	'6.4219'	'6.2265'	'4.3129'	'0.0959'
\mu	'0.3548'	'0.3996'	'0.3772'	'0.9816'	'0.1093'
a_H	'6.408'	'6.8044'	'6.6062'	'4.2394'	'0.0825'
b_H	'9.4979'	'9.9875'	'9.7427'	'14.5555'	'0.089'
\nu	'237.5453'	'260.4483'	'248.9968'	'0.0372'	'0.1034'
ВР	'469.4043'	'469.5957'	'469.5'	'468.4999'	'0.0738'











Chapter 16. Extension number 16

16.1. Basic information

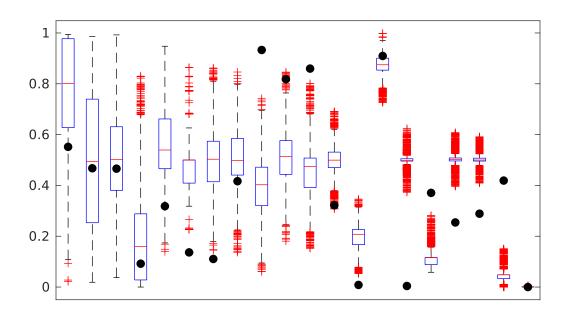
The extension to be validated consists of the time series from the data485 to the 499. The status of the validation is: COMPLETED.

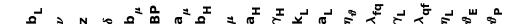
The number of estimations needed to perform the validation was 1000.

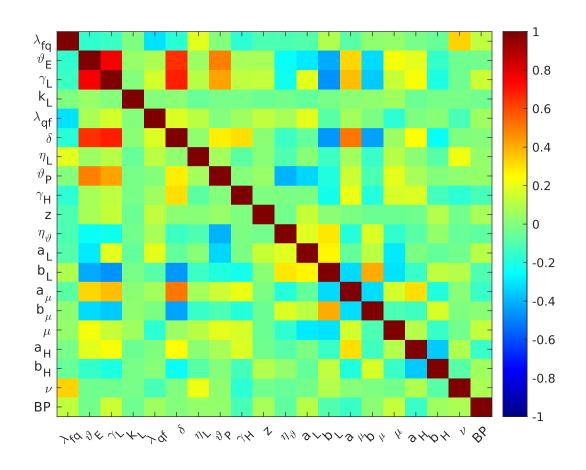
16.2. Estimated parameters with their intervals

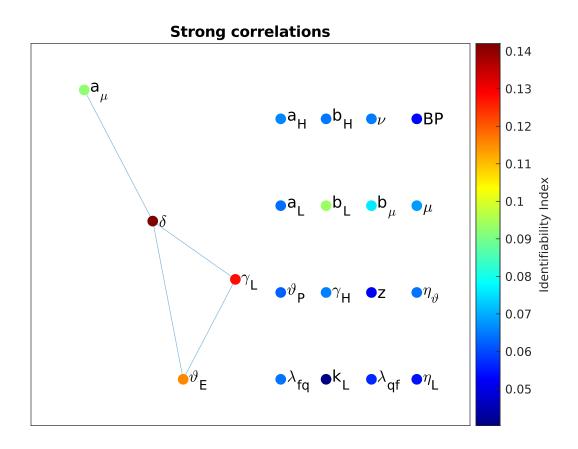
It was necessary to fix 0 parameters of 10 that could be fixed to complete validation.

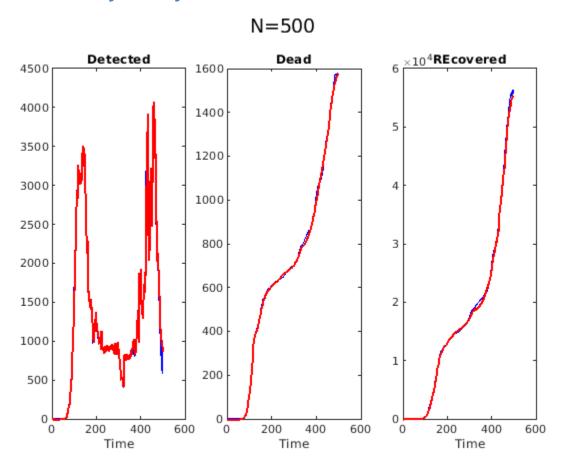
	Rango		Nominal	Mejor	Index
\lambda_{fq}	'0.4862'	'0.5095'	'0.4979'	'0.0041'	'0.0642'
\vartheta_E	'0.0407'	'0.0561'	'0.0484'	'0.419'	'0.1154'
\gamma_L	'0.0993'	'0.133'	'0.1161'	'0.3706'	'0.1278'
k_L	'5.4184'	'5.5723'	'5.4954'	'3.8971'	'0.0402'
\lambda_{qf}	'0.4926'	'0.5105'	'0.5016'	'0.2543'	'0.0566'
\delta	'0.0204'	'0.0274'	'0.0239'	'0.0138'	'0.142'
\eta_L	'0.4909'	'0.5091'	'0.5'	'0.2887'	'0.0544'
\vartheta_P	'0'	'0.0032'	'0.001'	'0'	'0.0622'
\gamma_H	'0.4615'	'0.4877'	'0.4746'	'0.8598'	'0.0656'
z	'14.6444'	'15.4615'	'15.0529'	'13.9776'	'0.052'
\eta_\vartheta	'0.8679'	'0.8819'	'0.8749'	'0.9096'	'0.0641'
a_L	'3.8001'	'4.0164'	'3.9083'	'1.1167'	'0.0638'
b_L	'11.9839'	'12.4493'	'12.2166'	'8.7251'	'0.0937'
a_\mu	'7.8837'	'8.202'	'8.0429'	'2.5473'	'0.0926'
b_\mu	'8.3749'	'8.7264'	'8.5507'	'5.456'	'0.0763'
\mu	'0.3918'	'0.4134'	'0.4026'	'0.9331'	'0.0682'
a_H	'8.0344'	'8.3546'	'8.1945'	'12.4518'	'0.0662'
b_H	'7.8024'	'8.1432'	'7.9728'	'6.8326'	'0.0647'
\nu	'236.363'	'258.3554'	'247.3592'	'233.7576'	'0.0651'
ВР	'483.3955'	'483.6045'	'483.5'	'479.5'	'0.0533'











Chapter 17. Extension number 17

17.1. Basic information

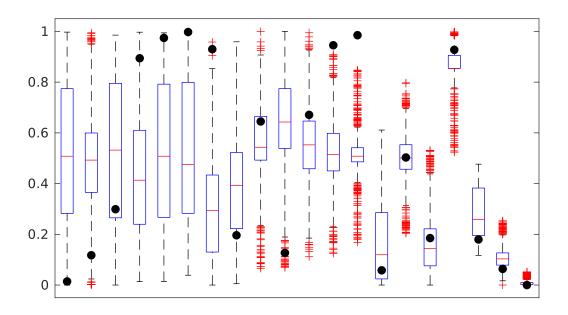
The extension to be validated consists of the time series from the data499 to the 559. The status of the validation is: COMPLETED.

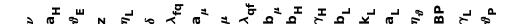
The number of estimations needed to perform the validation was 1000.

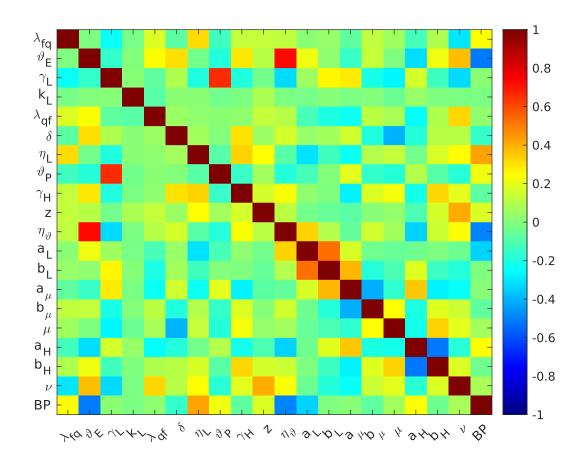
17.2. Estimated parameters with their intervals

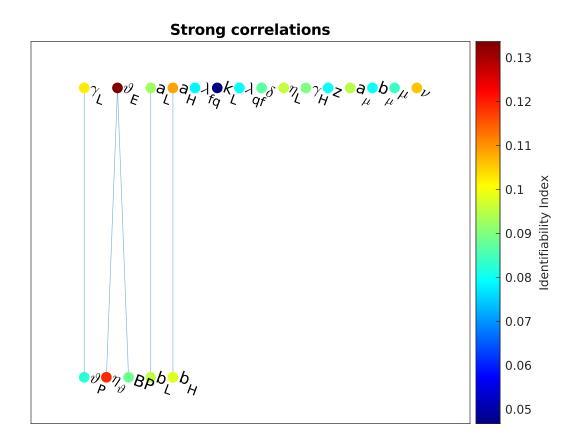
It was necessary to fix 0 parameters of 10 that could be fixed to complete validation.

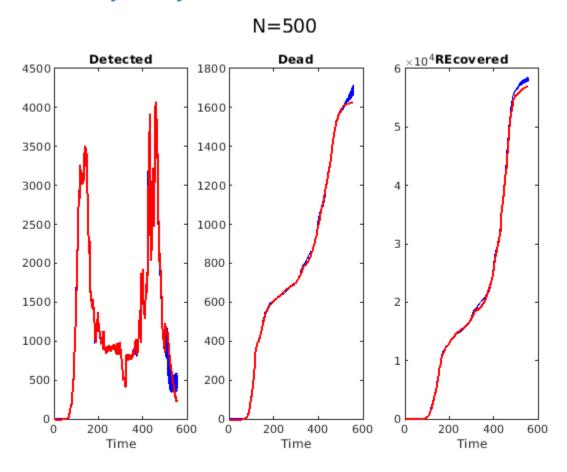
	Rango		Nominal	Mejor	Index
\lambda_{fq}	'0.2702'	'0.3173'	'0.2937'	'0.93'	'0.0786'
\vartheta_E	'0.498'	'0.5661'	'0.532'	'0.2991'	'0.1336'
\gamma_L	'0.0839'	'0.1224'	'0.1031'	'0.0637'	'0.1026'
k_L	'5.3626'	'5.6573'	'5.5099'	'5.5265'	'0.0467'
\lambda_{qf}	'0.6178'	'0.6678'	'0.6428'	'0.1268'	'0.0793'
\delta	'0.0666'	'0.0758'	'0.0712'	'0.1496'	'0.0869'
\eta_L	'0.4764'	'0.5394'	'0.5079'	'0.9743'	'0.0958'
\vartheta_P	'0'	'0.0217'	'0.0097'	'0'	'0.0824'
\gamma_H	'0.4844'	'0.5316'	'0.508'	'0.9851'	'0.0901'
z	'11.5681'	'13.2344'	'12.4012'	'26.8264'	'0.0797'
\eta_\vartheta	'0.8222'	'0.8858'	'0.854'	'0.9274'	'0.1192'
a_L	'2.6693'	'3.3468'	'3.0081'	'3.5914'	'0.0926'
b_L	'2.3174'	'3.0271'	'2.6723'	'1.8124'	'0.0954'
a_\mu	'6.1714'	'6.8189'	'6.4952'	'3.7476'	'0.0949'
b_\mu	'8.4662'	'9.0099'	'8.738'	'10.3939'	'0.0797'
\mu	'0.5197'	'0.5668'	'0.5433'	'0.6449'	'0.0841'
a_H	'7.5629'	'8.2309'	'7.8969'	'2.6463'	'0.1085'
b_H	'7.9212'	'8.5093'	'8.2153'	'14.2369'	'0.0981'
\nu	'238.1561'	'269.7831'	'253.9696'	'7.0917'	'0.1058'
ВР	'500.7875'	'502.2125'	'501.5'	'496.4995'	'0.0885'











Chapter 18. Extension number 18

18.1. Basic information

The extension to be validated consists of the time series from the data559 to the 705. The status of the validation is: COMPLETED.

The number of estimations needed to perform the validation was 1000.

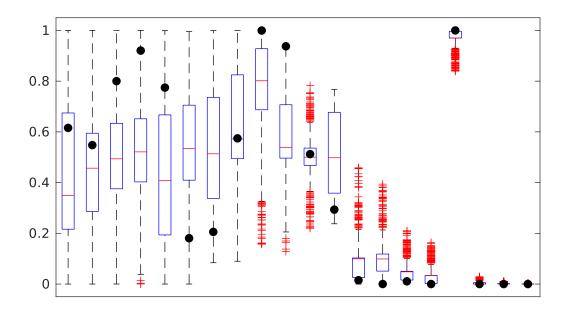
18.2. Estimated parameters with their intervals

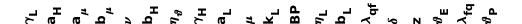
It was necessary to fix 0 parameters of 10 that could be fixed to complete validation.

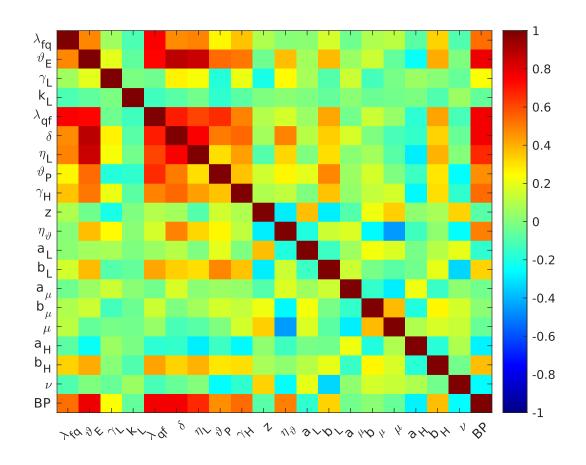
Due to a deviation from the median the CSB method was activated to obtain the

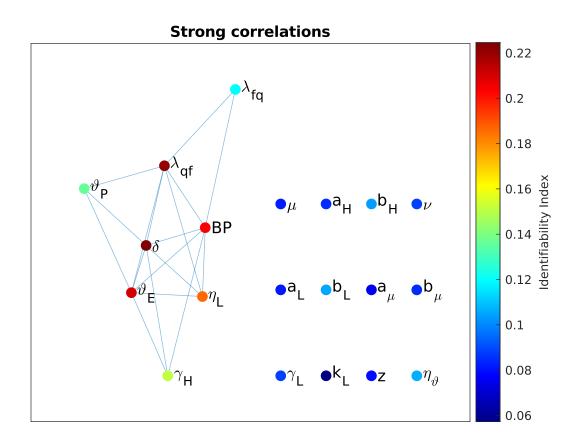
parameter intervals.

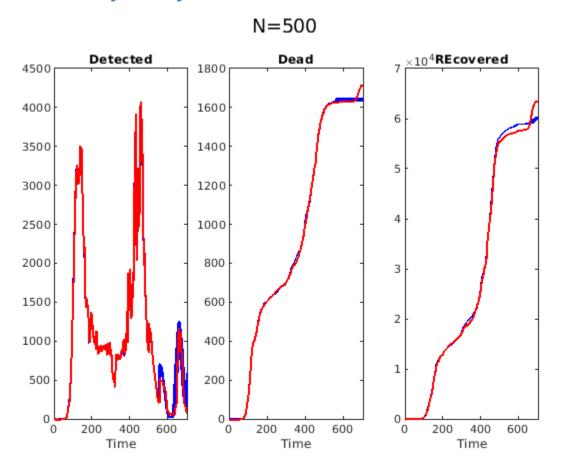
parameter interva	Rango		Nominal	Mejor	Index
\lambda_{fq}	'0'	'0.0011'	'0.0019'	'0'	'0.1198'
\vartheta_E	'0'	'0'	'0.0054'	'0'	'0.2107'
\gamma_L	'0.4049'	'0.7479'	'0.3493'	'0.6157'	'0.0881'
k_L	'2.6491'	'7.2483'	'5.5022'	'5.6102'	'0.0573'
\lambda_{qf}	'0.0107'	'0.0118'	'0.0481'	'0.0107'	'0.2208'
\delta	'0'	'0'	'0.0051'	'0'	'0.2246'
\eta_L	'0.0089'	'0.0207'	'0.0994'	'0.0151'	'0.1861'
\vartheta_P	'0'	'0.1116'	'0.0006'	'0'	'0.1367'
\gamma_H	'0.3206'	'0.7958'	'0.5722'	'0.5744'	'0.1508'
z	'26.0292'	'30'	'29.0953'	'29.9961'	'0.0798'
\eta_\vartheta	'0.1011'	'0.2124'	'0.5135'	'0.2057'	'0.1065'
a_L	'12.6009'	'15'	'12.2215'	'14.9927'	'0.0819'
b_L	'1'	'1.3835'	'2.3848'	'1.0016'	'0.1051'
a_\mu	'6.036'	'12.9771'	'7.9111'	'12.2022'	'0.0753'
b_\mu	'5.8342'	'14.025'	'8.2957'	'13.8862'	'0.0852'
\mu	'0.2199'	'0.9532'	'0.5383'	'0.9374'	'0.0825'
a_H	'5.302'	'9.3098'	'7.3957'	'8.67'	'0.0849'
b_H	'2.6561'	'7.5169'	'8.4765'	'3.5304'	'0.1041'
\nu	'356.3867'	'395.9473'	'203.7345'	'387.321'	'0.0882'
BP	'552.22'	'559.3'	'596.6141'	'556.4999'	'0.2039'











Chapter 19. Extension number 19

19.1. Basic information

The extension to be validated consists of the time series from the data705 to the 721. The status of the validation is: COMPLETED.

The number of estimations needed to perform the validation was 1000.

19.2. Estimated parameters with their intervals

It was necessary to fix 0 parameters of 10 that could be fixed to complete validation.

Due to a deviation from the median the CSB method was activated to obtain the

parameter intervals.

	Rango		Nominal	Mejor	Index
\lambda_{fq}	'0.0168'	'0.0194'	'0.0146'	'0.0181'	'0.0725'
\vartheta_E	'0'	'0.0001'	'0.0163'	'0.0001'	'0.1835'
\gamma_L	'0.3799'	'1'	'0.3301'	'0.9608'	'0.1179'
k_L	'1.162'	'8.7825'	'5.5281'	'5.1953'	'0.0471'
\lambda_{qf}	'0'	'0.0001'	'0.3922'	'0.0001'	'0.1267'
\delta	'0.0539'	'0.0839'	'0.0526'	'0.0579'	'0.1633'
\eta_L	'0.6754'	'0.983'	'0.4367'	'0.9711'	'0.1672'
\vartheta_P	'0'	'0.0001'	'0.0036'	'0'	'0.0841'
\gamma_H	'0.5253'	'0.981'	'0.4992'	'0.9569'	'0.0656'
z	'20.4044'	'30'	'22.9104'	'29.825'	'0.0691'
\eta_\vartheta	'0.6269'	'0.6977'	'0.5255'	'0.6475'	'0.0771'
a_L	'8.7793'	'15'	'8.8469'	'14.7401'	'0.1589'
b_L	'5.2397'	'11.2588'	'2.7336'	'6.1674'	'0.0706'
a_\mu	'7.0591'	'14.6824'	'6.2707'	'7.0663'	'0.0915'
b_\mu	'1.5445'	'12.6514'	'8.8458'	'10.316'	'0.0678'
\mu	'0.1011'	'0.8336'	'0.6435'	'0.5982'	'0.0963'
a_H	'3.0676'	'4.6486'	'8.6401'	'4.2184'	'0.0619'
b_H	'7.8923'	'14.3625'	'7.7193'	'13.8728'	'0.0613'
\nu	'4.6857'	'10.1746'	'244.0464'	'5.3453'	'0.0832'
ВР	'632.744'	'640.4781'	'642.9606'	'635.4998'	'0.1792'

