Validation process for VILLAVIEJA

The epidemiology research group, EAFIT

06-Apr-2022

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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 30. The status of the validation is: COMPLETED.

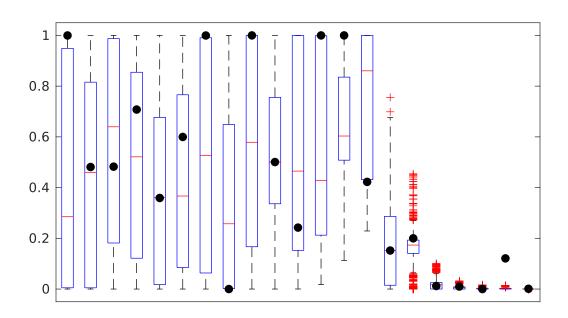
The number of estimations needed to perform the validation was 1000.

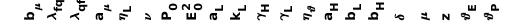
1.2. Estimated parameters with their intervals

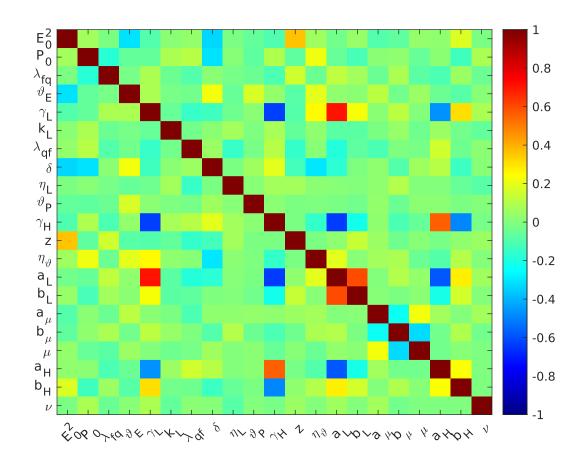
It was necessary to fix 0 parameters of 11 that could be fixed to complete validation.

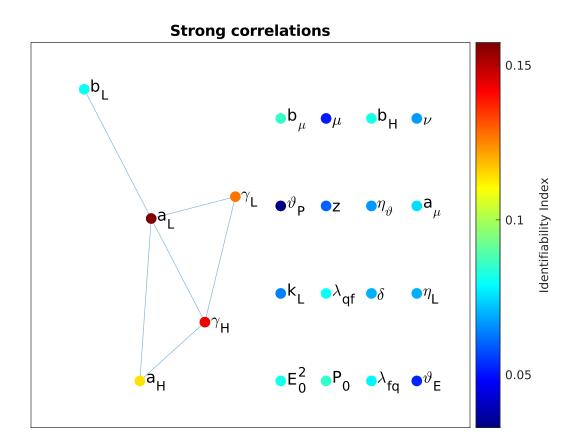
Due to a deviation from the median the CSB method was activated to obtain the

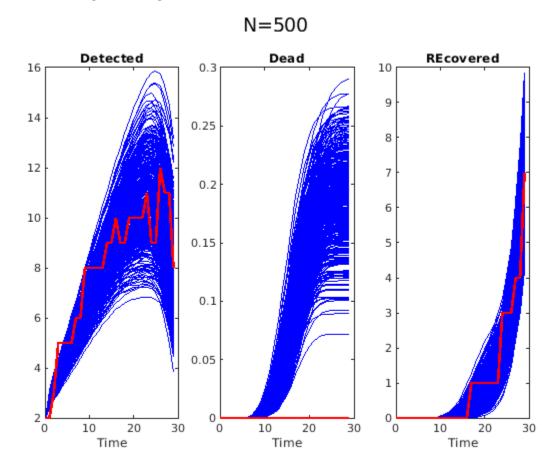
	Ran	go	Nominal	Mejor	Index
E^2_0	'0'	'0.0006'	'514.578'	'0.0003'	'0.0818'
P_0	'310.7663'	'400'	'210.6506'	'399.8559'	'0.0858'
\lambda_{fq}	'0.025'	'1'	'0.4592'	'0.4811'	'0.0786'
\vartheta_E	'0.0068'	'0.2587'	'0.0026'	'0.1209'	'0.0523'
\gamma_L	'0.6549'	'1'	'0.4281'	'1'	'0.1274'
k_L	'1.4444'	'10'	'5.5085'	'5.5064'	'0.064'
\lambda_{qf}	'0'	'1'	'0.6397'	'0.4826'	'0.0801'
\delta	'0.0003'	'0.0024'	'0.0028'	'0.0018'	'0.0694'
\eta_L	'0.0173'	'0.6907'	'0.3619'	'0.359'	'0.0696'
\vartheta_P	'0.0009'	'0.0012'	'0'	'0.0011'	'0.0329'
\gamma_H	'0.1883'	'0.8535'	'0.4651'	'0.2423'	'0.1436'
z	'0'	0'	'0.0919'	'0'	'0.0606'
\eta_\vartheta	'0.9491'	'1'	'0.6033'	'1'	'0.0668'
a_L	'13.4704'	'15'	'9.1012'	'15'	'0.1573'
b_L	'2.9265'	'3.5758'	'3.1225'	'3.1267'	'0.0806'
a_\mu	'8.5047'	'11.0463'	'8.2977'	'10.9077'	'0.0756'
b_\mu	'10.916'	'15'	'4.9926'	'14.9974'	'0.0854'
\mu	'0.0078'	'0.0111'	'0.006'	'0.0099'	'0.0512'
a_H	'6.9108'	'9.6774'	'13.0133'	'6.9158'	'0.1138'
b_H	'2.4093'	'4.1155'	'3.4303'	'3.7994'	'0.0823'
\nu	'0'	'475'	'183.3823'	'299.8476'	'0.0672'











Chapter 2. Extension number 2

2.1. Basic information

The extension to be validated consists of the time series from the data30 to the 72. The status of the validation is: COMPLETED.

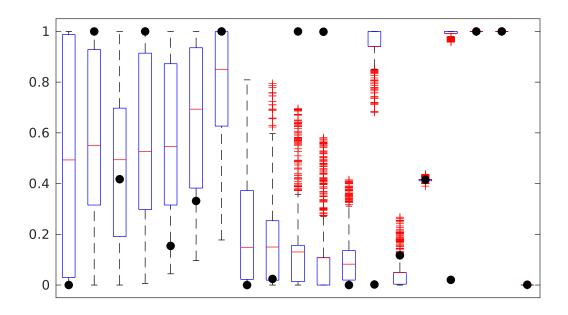
The number of estimations needed to perform the validation was 6000.

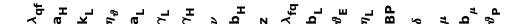
2.2. Estimated parameters with their intervals

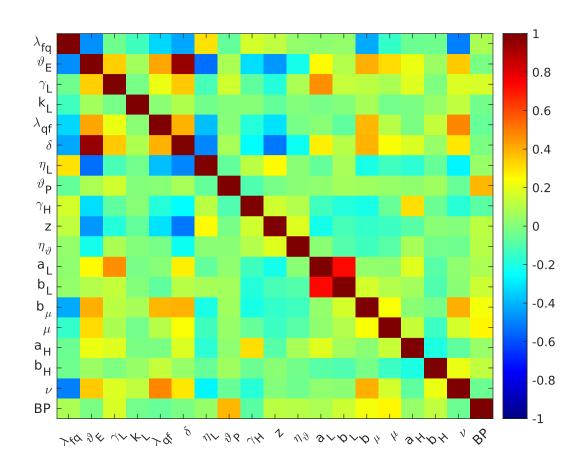
It was necessary to fix 1 parameters of 10 that could be fixed to complete validation.

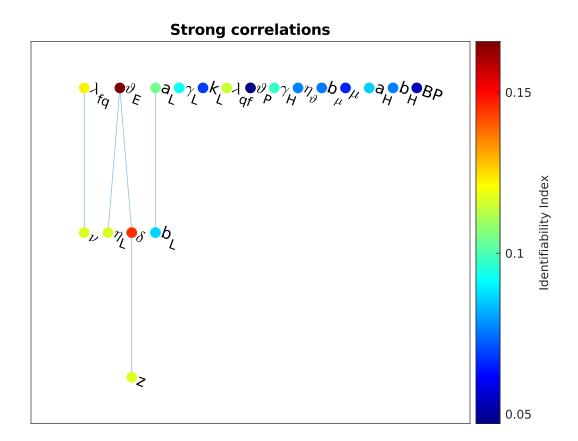
Due to a deviation from the median the CSB method was activated to obtain the

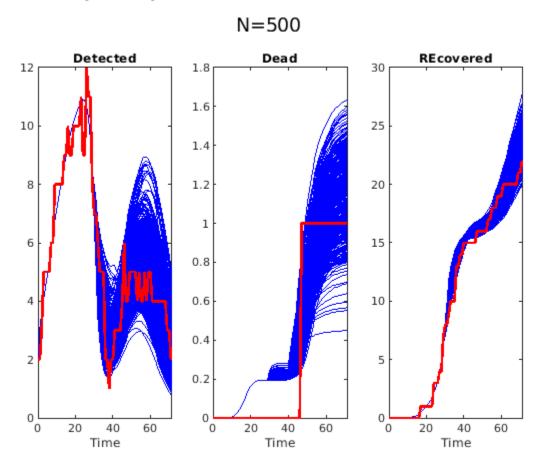
parameter interva	Ran	go	Nominal	Mejor	Index
\lambda_{fq}	'0.426'	'1'	'0.1084'	'0.9987'	'0.1226'
\vartheta_E	'0'	'0.0042'	'0.9404'	'0.0022'	'0.1658'
\gamma_L	'0.2348'	'0.4184'	'0.6934'	'0.3315'	'0.0924'
k_L	'1'	'10'	'5.4467'	'4.7554'	'0.0686'
\lambda_{qf}	'0'	'0.0003'	'0.4933'	'0.0001'	'0.1144'
\delta	'0.0023'	'0.0037'	'0.1488'	'0.0031'	'0.1455'
\eta_L	'0'	'0.2636'	'0.0495'	'0.1172'	'0.117'
\vartheta_P	'0.0009'	'0.0012'	'0'	'0.0012'	'0.047'
\gamma_H	'0.19'	'1'	'0.8487'	'0.9999	'0.098'
z	'25.2918'	'30'	'3.9201'	'29.9955'	'0.1172'
\eta_\vartheta	'0.9552'	'1'	'0.5259'	'1'	'0.0771'
a_L	'3.1413'	'4.0104'	'8.6436'	'3.1594'	'0.1048'
b_L	'1'	'1.2383'	'2.1608'	'1'	'0.0865'
a_\mu	'8.6202'	'8.6202'	'8.6202'	'8.6202'	'0'
b_\mu	'8.4766'	'15'	'14.9986'	'15'	'0.0762'
\mu	'0.3305'	'1'	'0.9998'	'1'	'0.0652'
a_H	'7.7139'	'15'	'8.7127'	'14.9973'	'0.0858'
b_H	'1'	'12.97'	'3.1038'	'1.3376'	'0.0764'
\nu	'0'	'0.0087'	'74.5163'	'0.0039'	'0.1174'
ВР	'29.824'	'31.432'	'30.5'	'30.5002'	'0.0538'











Chapter 3. Extension number 3

3.1. Basic information

The extension to be validated consists of the time series from the data72 to the 99. The status of the validation is: COMPLETED.

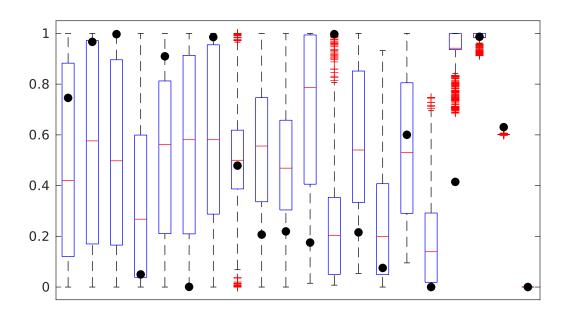
The number of estimations needed to perform the validation was 1000.

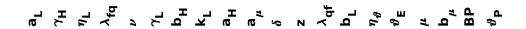
3.2. Estimated parameters with their intervals

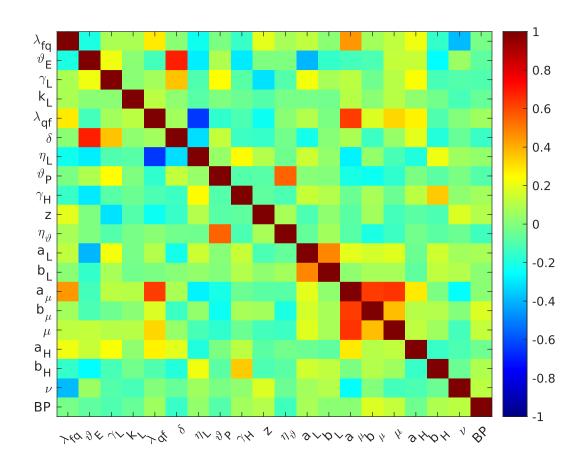
It was necessary to fix 0 parameters of 10 that could be fixed to complete validation.

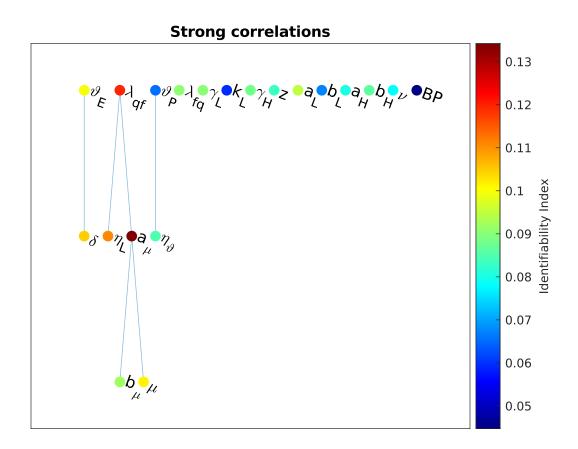
Due to a deviation from the median the CSB method was activated to obtain the

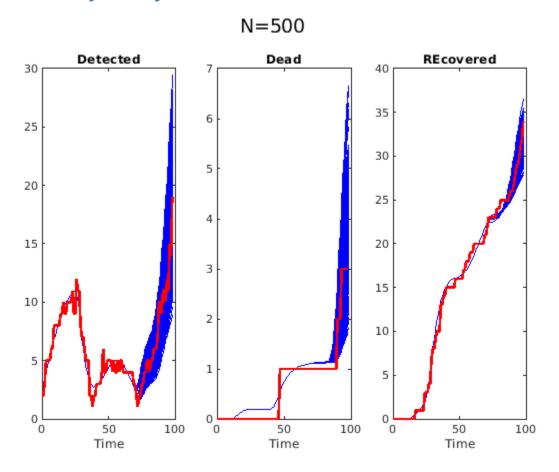
	Ra	ngo	Nominal	Mejor	Index
\lambda_{fq}	'0.0479'	'0.0668'	'0.2676'	'0.0498'	'0.0907'
\vartheta_E	'0'	'0.0001'	'0.1393'	'0'	'0.0997'
\gamma_L	'0'	'0.0017'	'0.5809'	'0.0008'	'0.0905'
k_L	'1.2081'	'9.325'	'5.4989'	'5.3088'	'0.0595'
\lambda_{qf}	'0.1977'	'0.2353'	'0.5404'	'0.2156'	'0.1198'
\delta	'0.0152'	'0.0278'	'0.118'	'0.0263'	'0.1048'
\eta_L	'0.6974'	'1'	'0.4978'	'0.9972'	'0.1109'
\vartheta_P	'0.0002'	'0.0003'	'0'	'0.0002'	'0.0656'
\gamma_H	'0.4789'	'1'	'0.5763'	'0.9668'	'0.0881'
Z	'19.0694'	'30'	'6.089'	'29.9145'	'0.0833'
\eta_\vartheta	'0.5743'	'0.6145'	'0.5308'	'0.6002'	'0.0849'
a_L	'1'	'12.8104'	'6.8745'	'11.4414'	'0.095'
b_L	'1.35'	'13.4057'	'3.7845'	'2.0548'	'0.0673'
a_\mu	'3.6755'	'4.5377'	'7.5623'	'4.0712'	'0.1342'
b_\mu	'10.3463'	'15'	'14.7713'	'14.8145'	'0.092'
\mu	'0.2906'	'0.6473'	'0.9417'	'0.4146'	'0.1014'
a_H	'3.5792'	'4.996'	'8.7831'	'3.8953'	'0.0806'
b_H	'9.4488'	'15'	'9.1327'	'14.7965'	'0.0864'
\nu	'355.408'	'460.2109'	'281.0469'	'454.8635'	'0.0785'
ВР	'71.5538'	'75.3065'	'71.5067'	'73.5'	'0.0447'











Chapter 4. Extension number 4

4.1. Basic information

The extension to be validated consists of the time series from the data99 to the 131. The status of the validation is: COMPLETED.

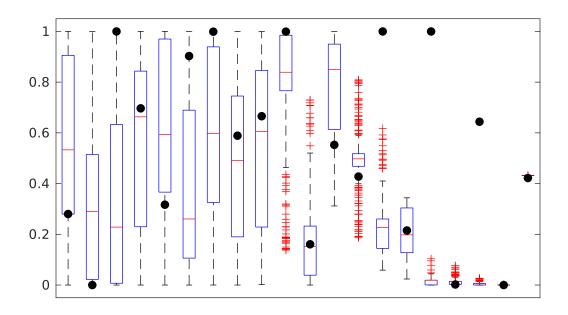
The number of estimations needed to perform the validation was 1000.

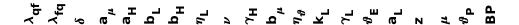
4.2. Estimated parameters with their intervals

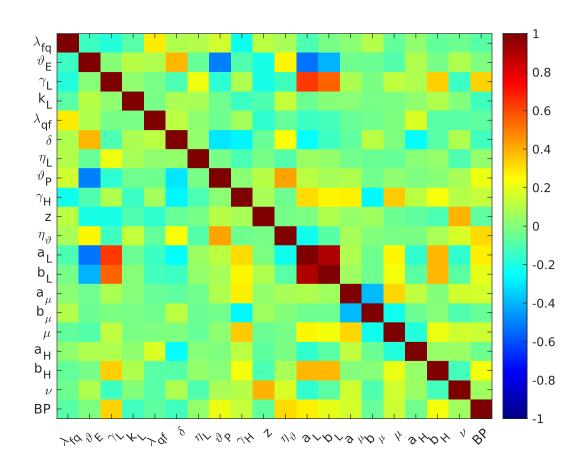
It was necessary to fix 0 parameters of 10 that could be fixed to complete validation.

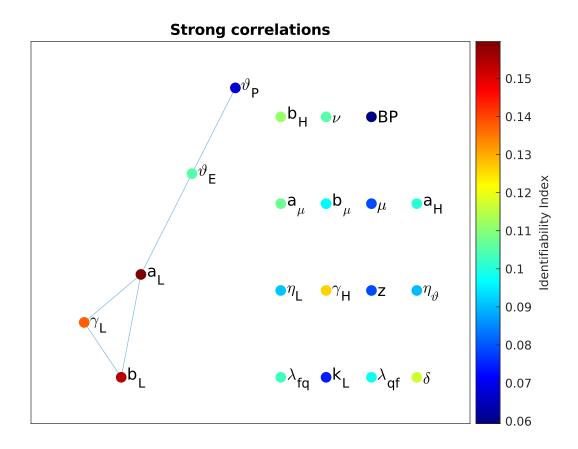
Due to a deviation from the median the CSB method was activated to obtain the

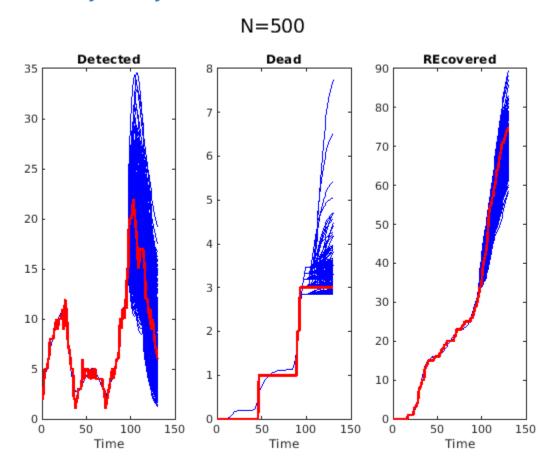
parameter interva	Rar	ngo	Nominal	Mejor	Index
\lambda_{fq}	'0'	'0'	'0.29'	'0'	'0.103'
\vartheta_E	'0.1635'	'0.2959'	'0.1978'	'0.2151'	'0.1049'
\gamma_L	'0.4858'	'1'	'0.2273'	'0.9998'	'0.1375'
k_L	'1'	'10'	'5.4778'	'4.8497'	'0.0743'
\lambda_{qf}	'0'	'0.5445'	'0.5331'	'0.2801'	'0.0983'
\delta	'0.0177'	'0.15'	'0.0343'	'0.15'	'0.1173'
\eta_L	'0.02'	'1'	'0.4912'	'0.5889'	'0.091'
\vartheta_P	'0'	'0'	'0.0001'	'0'	'0.0674'
\gamma_H	'0.2631'	'1'	'0.839'	'0.9991'	'0.1263'
Z	'0'	'0.1092'	'0.4412'	'0.0664'	'0.0791'
\eta_\vartheta	'0.3073'	'1'	'0.8504'	'0.5527'	'0.0901'
a_L	'8.9141'	'15'	'1.2668'	'14.9966'	'0.1597'
b_L	'5.7541'	'14.0448'	'4.648'	'13.6399'	'0.1541'
a_\mu	'7.3087'	'15'	'10.2863'	'10.7535'	'0.1074'
b_\mu	'1'	'8.168'	'3.1286'	'3.2502'	'0.0965'
\mu	'0'	'0.8208'	'0.0057'	'0.6439'	'0.0792'
a_H	'1.448'	'8.116'	'9.3148'	'5.4346'	'0.1007'
b_H	'5.9552'	'15'	'9.3586'	'14.985'	'0.1118'
\nu	'186.7914'	'500'	'302.5037'	'332.8311'	'0.1056'
BP	'95.7118'	'100.3294'	'97.5'	'96.9037'	'0.0593'











Chapter 5. Extension number 5

5.1. Basic information

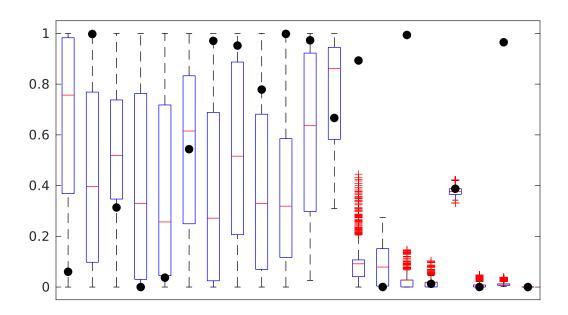
The extension to be validated consists of the time series from the data131 to the 188. The status of the validation is: COMPLETED.

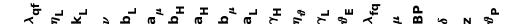
The number of estimations needed to perform the validation was 1000.

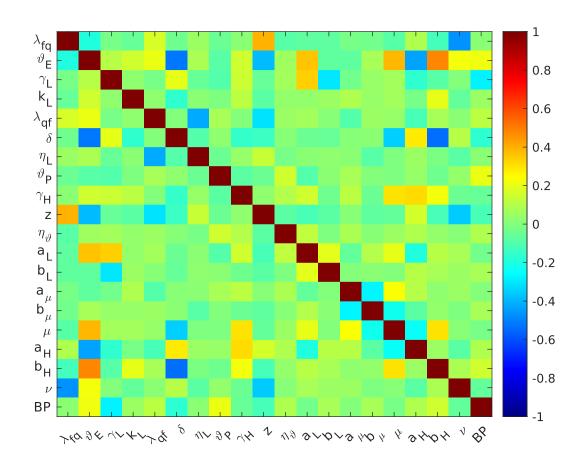
5.2. Estimated parameters with their intervals

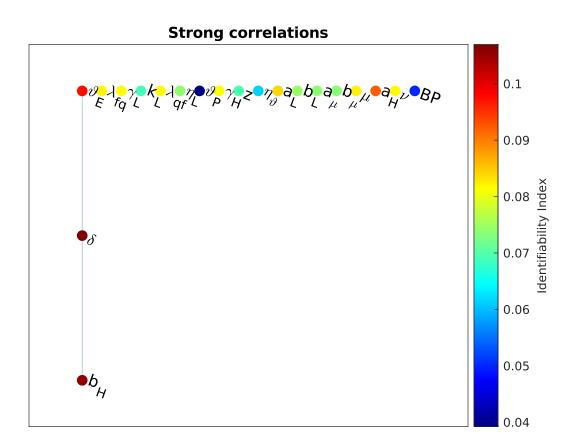
It was necessary to fix 0 parameters of 10 that could be fixed to complete validation.

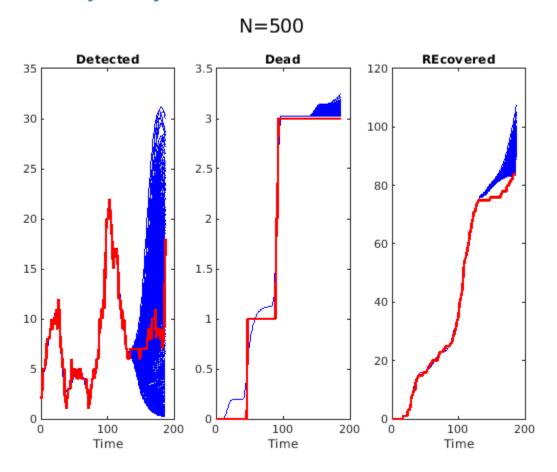
	Rar	ngo	Nominal	Mejor	Index
\lambda_{fq}	'0'	'0.0636'	'0.0275'	'0.9938'	'0.0819'
\vartheta_E	'0.072'	'0.0857'	'0.0788'	'0.0003'	'0.0975'
\gamma_L	'0.0609'	'0.1223'	'0.0916'	'0.8932'	'0.0817'
k_L	'5.4153'	'5.9146'	'5.665'	'3.8225'	'0.069'
\lambda_{qf}	'0.7239'	'0.7897'	'0.7568'	'0.0603'	'0.0814'
\delta	'0'	'0.0062'	'0.0013'	'0'	'0.1069'
\eta_L	'0.3626'	'0.4293'	'0.3959'	'0.9976'	'0.074'
\vartheta_P	'0'	'0.0001'	'0'	'0'	'0.0392'
\gamma_H	'0.6063'	'0.6659'	'0.6361'	'0.9729'	'0.0812'
Z	'0.0262'	'0.6543'	'0.3402'	'28.955'	'0.0694'
\eta_\vartheta	'0.8399'	'0.8844'	'0.8622'	'0.6667'	'0.0615'
a_L	'5.0504'	'5.8791'	'5.4647'	'14.9733'	'0.0839'
b_L	'4.1147'	'5.0751'	'4.5949'	'1.5179'	'0.0746'
a_\mu	'9.1682'	'10.0558'	'9.612'	'8.611'	'0.0737'
b_\mu	'5.1484'	'6.0627'	'5.6056'	'11.9003'	'0.0734'
\mu	'0'	'0.0482'	'0.019'	'0.0128'	'0.0821'
a_H	'7.7581'	'8.692'	'8.225'	'14.3283'	'0.092'
b_H	'4.3317'	'5.2745'	'4.8031'	'14.5897'	'0.1055'
\nu	'148.0013'	'182.1634'	'165.0823'	'0.0005'	'0.0816'
ВР	'132.2761'	'132.7239'	'132.5'	'133.5'	'0.0503'











Chapter 6. Extension number 6

6.1. Basic information

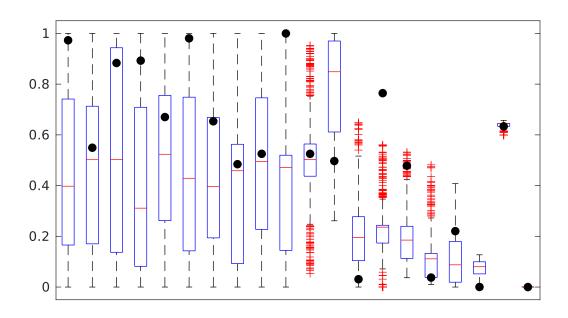
The extension to be validated consists of the time series from the data188 to the 217. The status of the validation is: COMPLETED.

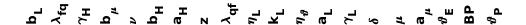
The number of estimations needed to perform the validation was 1000.

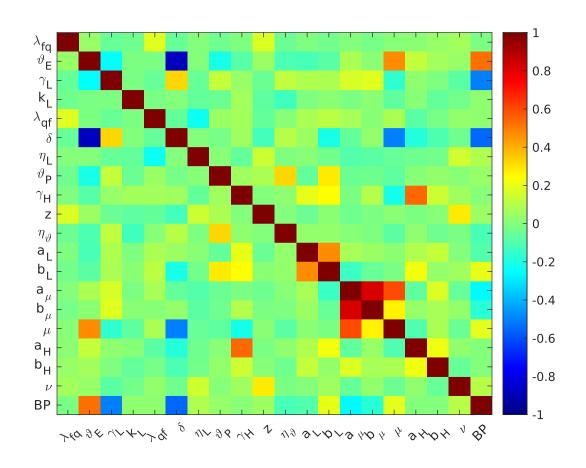
6.2. Estimated parameters with their intervals

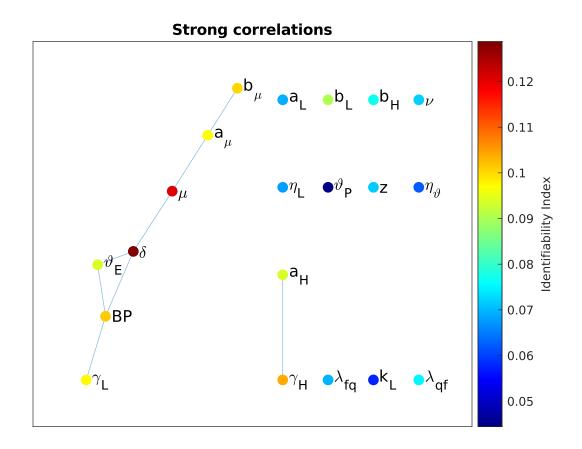
It was necessary to fix 0 parameters of 10 that could be fixed to complete validation.

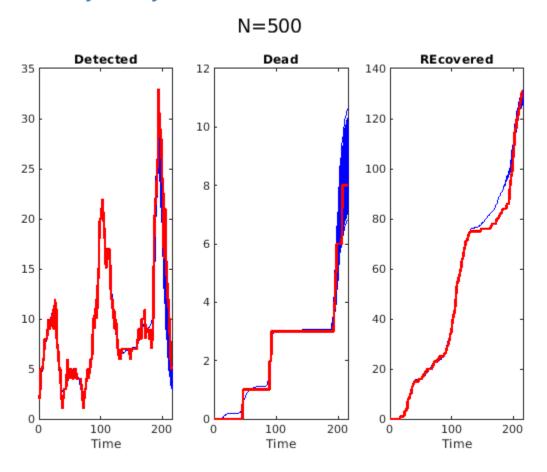
	Rar	ngo	Nominal	Mejor	Index
\lambda_{fq}	'0.4677'	'0.5365'	'0.5021'	'0.5493'	'0.0698'
\vartheta_E	'0.0763'	'0.084'	'0.0801'	'0.0002'	'0.0935'
\gamma_L	'0.2059'	'0.2663'	'0.2361'	'0.7645'	'0.0972'
k_L	'5.3029'	'5.7375'	'5.5202'	'5.7272'	'0.0577'
\lambda_{qf}	'0.4601'	'0.5289'	'0.4945'	'0.5252'	'0.0752'
\delta	'0.0241'	'0.0314'	'0.0278'	'0.0718'	'0.1287'
\eta_L	'0.4423'	'0.5002'	'0.4713'	'0.9998'	'0.068'
\vartheta_P	'0'	'0'	'0'	'0'	'0.0444'
\gamma_H	'0.4617'	'0.5442'	'0.5029'	'0.8834'	'0.1038'
z	'12.8252'	'14.6892'	'13.7572'	'14.5306'	'0.0715'
\eta_\vartheta	'0.8269'	'0.8708'	'0.8489'	'0.4968'	'0.0622'
a_L	'3.3953'	'4.0743'	'3.7348'	'1.4321'	'0.0693'
b_L	'6.0606'	'7.0739'	'6.5672'	'14.6212'	'0.0903'
a_\mu	'2.0611'	'2.3928'	'2.2269'	'4.0853'	'0.0966'
b_\mu	'4.8294'	'5.8793'	'5.3543'	'13.4982'	'0.1004'
\mu	'0.0786'	'0.144'	'0.1113'	'0.0373'	'0.1206'
a_H	'6.0808'	'7.0047'	'6.5428'	'10.1487'	'0.0937'
b_H	'6.5019'	'7.5048'	'7.0033'	'14.7286'	'0.0773'
\nu	'245.653'	'277.8194'	'261.7362'	'335.1104'	'0.0719'
BP	'186.3753'	'186.6247'	'186.5'	'185.4909'	'0.1014'











Chapter 7. Extension number7

7.1. Basic information

The extension to be validated consists of the time series from the data217 to the 282. The status of the validation is: COMPLETED.

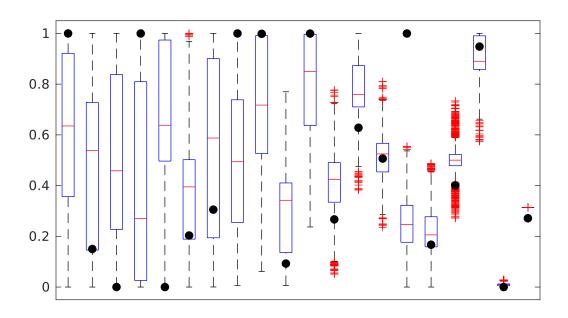
The number of estimations needed to perform the validation was 1000.

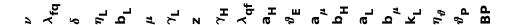
7.2. Estimated parameters with their intervals

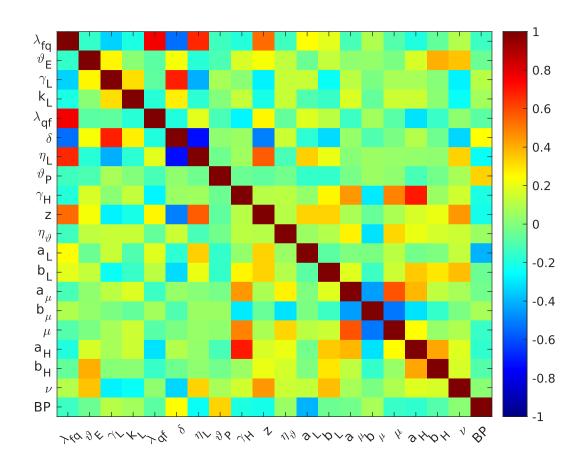
It was necessary to fix 0 parameters of 10 that could be fixed to complete validation.

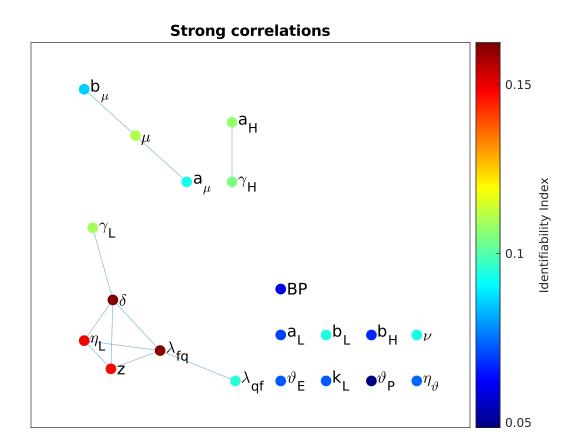
Due to a deviation from the median the CSB method was activated to obtain the

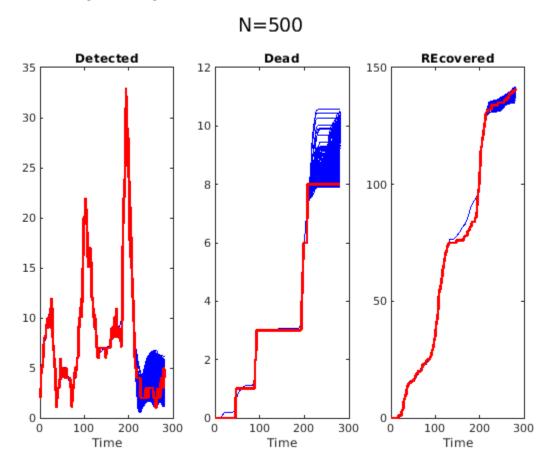
	Ran	go	Nominal	Mejor	Index
\lambda_{fq}	'0.1392'	'0.1614'	'0.538'	'0.15'	'0.1611'
\vartheta_E	'0.2473'	'0.2691'	'0.4241'	'0.2668'	'0.0721'
\gamma_L	'0.2149'	'0.3074'	'0.5875'	'0.3052'	'0.1091'
k_L	'2.8484'	'4.9739'	'5.5032'	'4.6079'	'0.0728'
\lambda_{qf}	'0.0828'	'0.0929'	'0.3421'	'0.0926'	'0.0953'
\delta	'0'	'0'	'0.0687'	'0'	'0.1624'
\eta_L	'0.8836'	'1'	'0.2701'	'0.9998'	'0.1494'
\vartheta_P	'0'	'0'	'0.0094'	'0'	'0.0484'
\gamma_H	'0.8803'	'1'	'0.7175'	'0.9984'	'0.1049'
Z	'27.9842'	'30'	'14.8247'	'29.9952'	'0.1473'
\eta_\vartheta	'0.6702'	'0.9792'	'0.8902'	'0.9481'	'0.0739'
a_L	'13.3483'	'15'	'4.4604'	'14.9963'	'0.0702'
b_L	'1'	'2.2962'	'9.9322'	'1.0005'	'0.0947'
a_\mu	'4.8247'	'10.1469'	'11.6364'	'9.7939'	'0.093'
b_\mu	'3.0477'	'5.9029'	'3.8807'	'3.3372'	'0.0855'
\mu	'0.1351'	'0.2233'	'0.3949'	'0.2032'	'0.1105'
a_H	'13.8512'	'15'	'12.8996'	'14.9916'	'0.1072'
b_H	'4.8006'	'11.9311'	'8.348'	'8.0921'	'0.0671'
\nu	'474.9468'	'500'	'317.5997'	'499.9365'	'0.0932'
ВР	'208.5'	'282'	'217.5'	'213.5'	'0.0592'











Chapter 8. Extension number 8

8.1. Basic information

The extension to be validated consists of the time series from the data282 to the 313. The status of the validation is: COMPLETED.

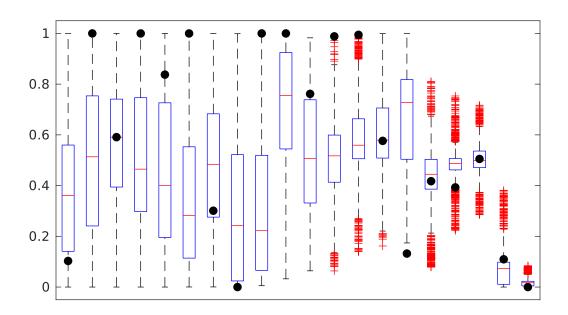
The number of estimations needed to perform the validation was 1000.

8.2. Estimated parameters with their intervals

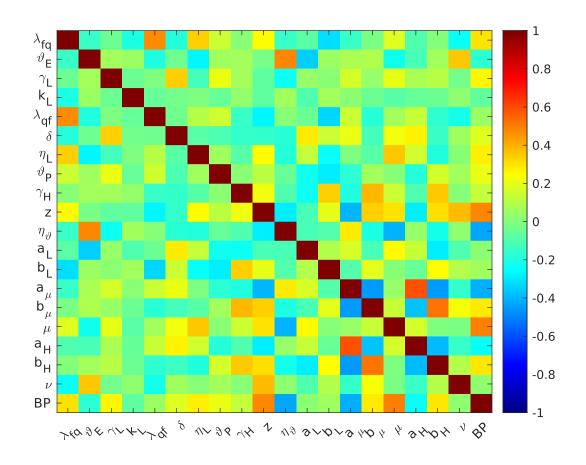
It was necessary to fix 0 parameters of 10 that could be fixed to complete validation.

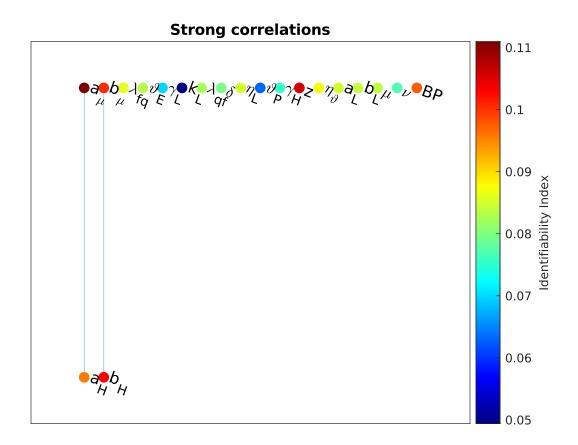
Due to a deviation from the median the CSB method was activated to obtain the

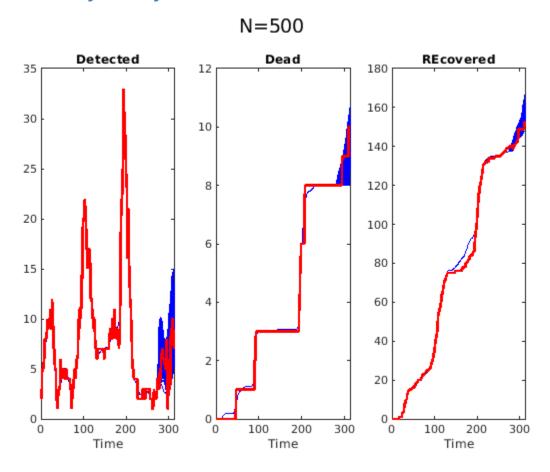
	Rango		Nominal	Mejor	Index
\lambda_{fq}	'0.0973'	'0.116'	'0.0731'	'0.1094'	'0.0861'
\vartheta_E	'0'	'0.0001'	'0.2424'	'0'	'0.0831'
\gamma_L	'0.5121'	'1'	'0.591'	'0.591'	'0.07'
k_L	'1.1823'	'8.29'	'5.4964'	'5.5463'	'0.0494'
\lambda_{qf}	'0.0979'	'0.1139'	'0.3612'	'0.1029'	'0.0825'
\delta	'0.0146'	'0.15'	'0.1133'	'0.15'	'0.0796'
\eta_L	'0.5053'	'1'	'0.2826'	'0.9999'	'0.085'
\vartheta_P	'0'	'0.0172'	'0.0171'	'0'	'0.0632'
\gamma_H	'0'	'0.8841'	'0.4865'	'0.3929'	'0.0754'
Z	'22.1628'	'30'	'6.6663'	'29.9978'	'0.1054'
\eta_\vartheta	'0.0691'	'0.2909'	'0.727'	'0.132'	'0.087'
a_L	'10.4439'	'12.9861'	'6.6077'	'12.7254'	'0.0848'
b_L	'10.33'	'15'	'7.5081'	'14.9981'	'0.0843'
a_\mu	'1'	'15'	'7.7747'	'5.2131'	'0.111'
b_\mu	'1.966'	'15'	'8.2425'	'14.8375'	'0.1004'
\mu	'0'	'1'	'0.5593'	'0.9944'	'0.0839'
a_H	'1.28'	'13.6623'	'9.1148'	'9.0687'	'0.0957'
b_H	'1'	'15'	'7.2255'	'6.8439'	'0.1032'
\nu	'428.6272'	'500'	'256.7752'	'499.9892'	'0.0771'
ВР	'274.5372'	'284.1289'	'260.5414'	'282.5'	'0.0975'











Chapter 9. Extension number 9

9.1. Basic information

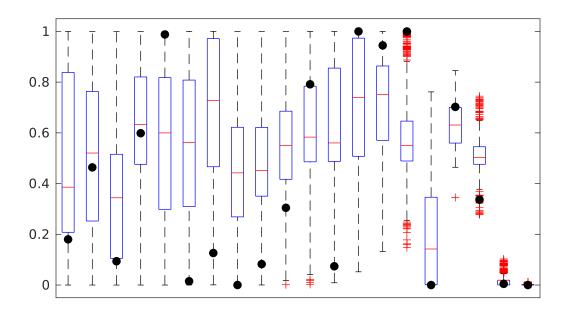
The extension to be validated consists of the time series from the data313 to the 334. The status of the validation is: COMPLETED.

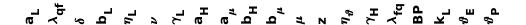
The number of estimations needed to perform the validation was 1000.

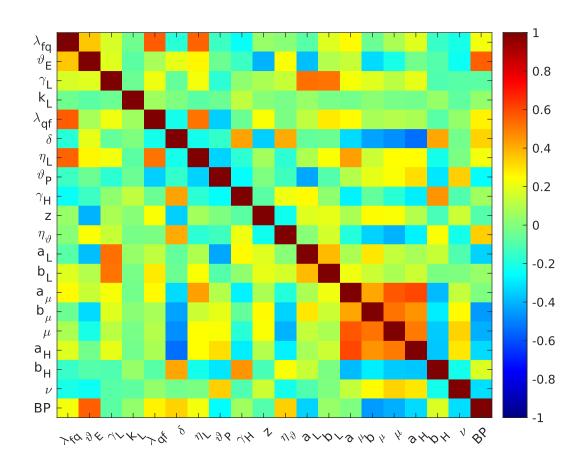
9.2. Estimated parameters with their intervals

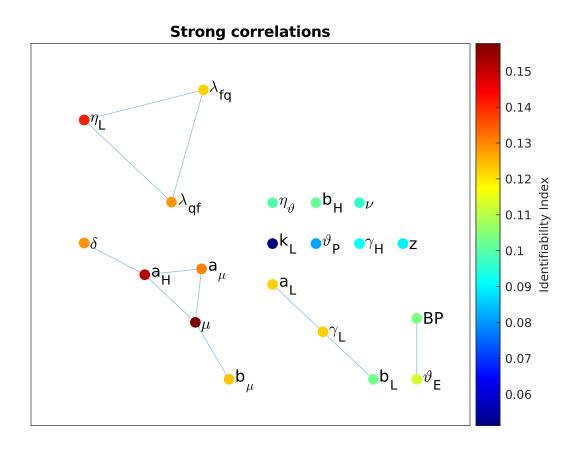
It was necessary to fix 0 parameters of 10 that could be fixed to complete validation.

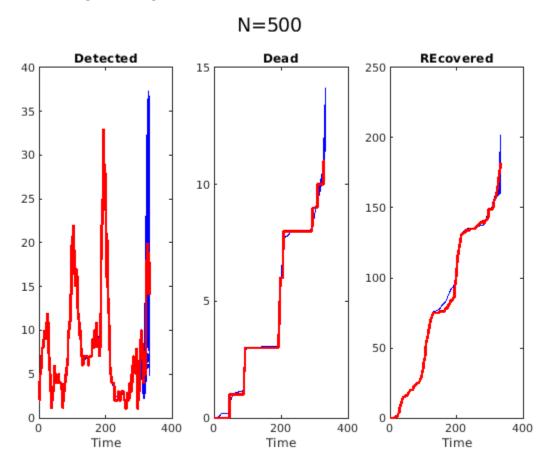
	Rango		Nominal	Mejor	Index
\lambda_{fq}	'0.1162'	'0.1681'	'0.1421'	'0'	'0.122'
\vartheta_E	'0'	'0.0504'	'0.0189'	'0.0047'	'0.1129'
\gamma_L	'0.6965'	'0.7585'	'0.7275'	'0.1264'	'0.1226'
k_L	'5.3754'	'5.6733'	'5.5244'	'4.0281'	'0.0513'
\lambda_{qf}	'0.4869'	'0.554'	'0.5205'	'0.4639'	'0.1283'
\delta	'0.047'	'0.0562'	'0.0516'	'0.0141'	'0.1286'
\eta_L	'0.5643'	'0.6354'	'0.5999'	'0.988'	'0.1409'
\vartheta_P	'0'	'0.0164'	'0.0023'	'0'	'0.0814'
\gamma_H	'0.526'	'0.5756'	'0.5508'	'0.9998'	'0.092'
Z	'21.3198'	'23.0338'	'22.1768'	'29.9984'	'0.0899'
\eta_\vartheta	'0.7225'	'0.7788'	'0.7507'	'0.9449'	'0.0997'
a_L	'5.8651'	'6.9402'	'6.4027'	'3.5226'	'0.1223'
b_L	'9.4485'	'10.2738'	'9.8612'	'9.3813'	'0.103'
a_\mu	'7.018'	'7.6332'	'7.3256'	'2.1557'	'0.1308'
b_\mu	'8.8175'	'9.5138'	'9.1656'	'12.0822'	'0.1236'
\mu	'0.53'	'0.5906'	'0.5603'	'0.074'	'0.1577'
a_H	'6.8206'	'7.5654'	'7.193'	'1.0023'	'0.1521'
b_H	'8.3476'	'9.0542'	'8.7009'	'5.2639'	'0.1017'
\nu	'264.9295'	'297.5125'	'281.221'	'7.5062'	'0.0964'
BP	'308.0631'	'308.9369'	'308.5'	'311.4995'	'0.1045'











Chapter 10. Extension number 10

10.1. Basic information

The extension to be validated consists of the time series from the data334 to the 346. The status of the validation is: COMPLETED.

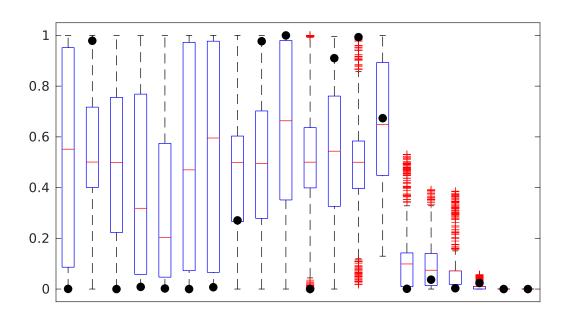
The number of estimations needed to perform the validation was 1000.

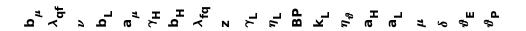
10.2. Estimated parameters with their intervals

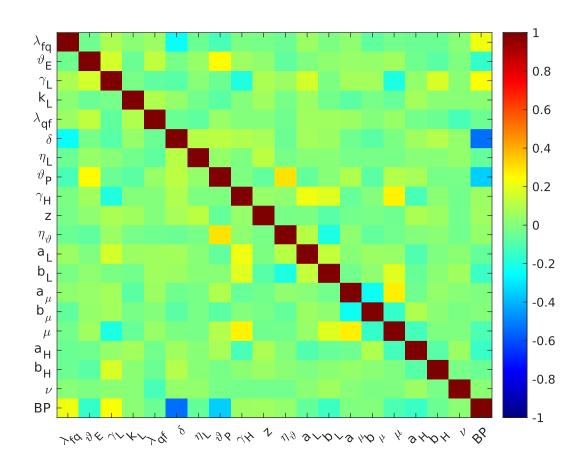
It was necessary to fix 0 parameters of 10 that could be fixed to complete validation.

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

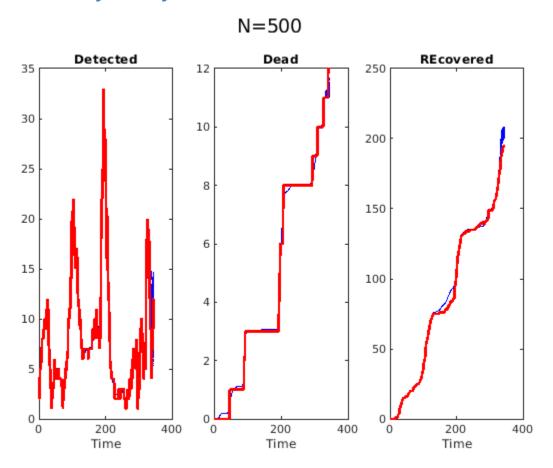
parameter interva	Rango		Nominal	Mejor	Index
\lambda_{fq}	'0'	'0.6092'	'0.4996'	'0.2707'	'0.0671'
\vartheta_E	'0'	'0'	'0.0001'	'0'	'0.0412'
\gamma_L	'0.5448'	'1'	'0.6635'	'1'	'0.0776'
k_L	'1'	'10'	'5.5'	'9.9388'	'0.055'
\lambda_{qf}	'0'	'1'	'0.5006'	'0.9789'	'0.0631'
\delta	'0.0008'	'0.0047'	'0.0016'	'0.0036'	'0.069'
\eta_L	'0'	'0.0002'	'0.5003'	'0.0001'	'0.0574'
\vartheta_P	'0'	'0'	'0'	'0'	'0.0478'
\gamma_H	'0'	'0'	'0.4699'	'0'	'0.0802'
z	'0'	'30'	'14.831'	'29.312'	'0.0624'
\eta_\vartheta	'0.3354'	'1'	'0.6483'	'0.6737'	'0.062'
a_L	'1.1237'	'2.237'	'2.0391'	'1.5174'	'0.0605'
b_L	'1'	'6.8203'	'5.4578'	'1.1193'	'0.0764'
a_\mu	'1'	'15'	'3.8529'	'1.0315'	'0.0703'
b_\mu	'1'	'15'	'8.7192'	'1.0094'	'0.0749'
\mu	'0'	'0.0072'	'0.0719'	'0.0032'	'0.0806'
a_H	'1'	'15'	'2.3869'	'1.0141'	'0.0695'
b_H	'1'	'15'	'9.3367'	'1.1006'	'0.0732'
\nu	'0'	'0.0037'	'249.2985'	'0.0016'	'0.06'
BP	'331.95'	'334.6432'	'325.5002'	'333.9363'	'0.0892'







| 0.085 | 0.085 | 0.085 | 0.085 | 0.086 | 0.075 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.065 | 0.06



Chapter 11. Extension number 11

11.1. Basic information

The extension to be validated consists of the time series from the data346 to the 355. The status of the validation is: COMPLETED.

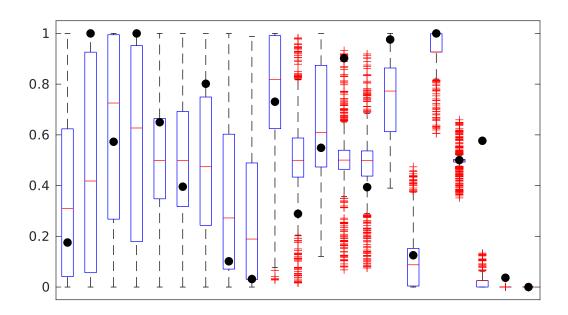
The number of estimations needed to perform the validation was 1000.

11.2. Estimated parameters with their intervals

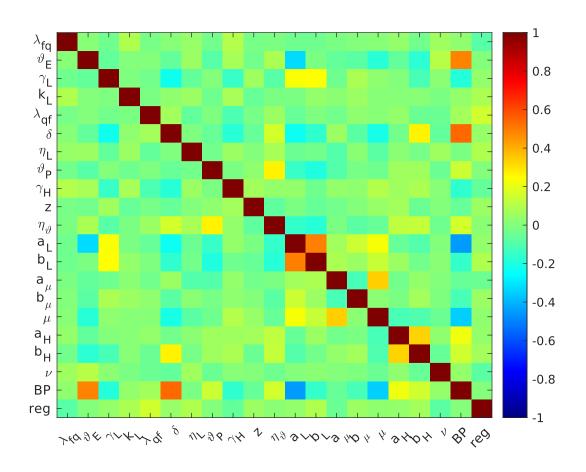
It was necessary to fix 0 parameters of 11 that could be fixed to complete validation.

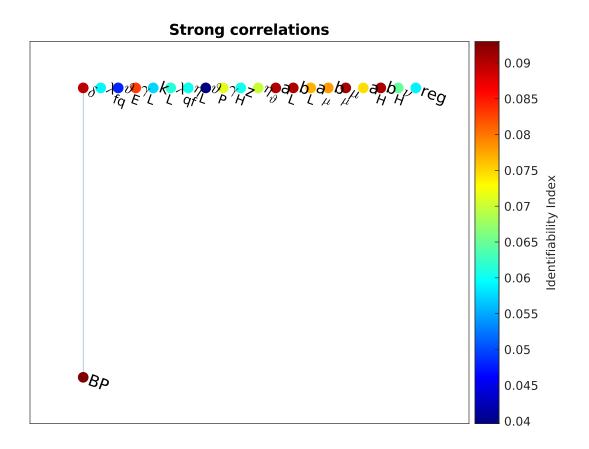
Due to a deviation from the median the CSB method was activated to obtain the

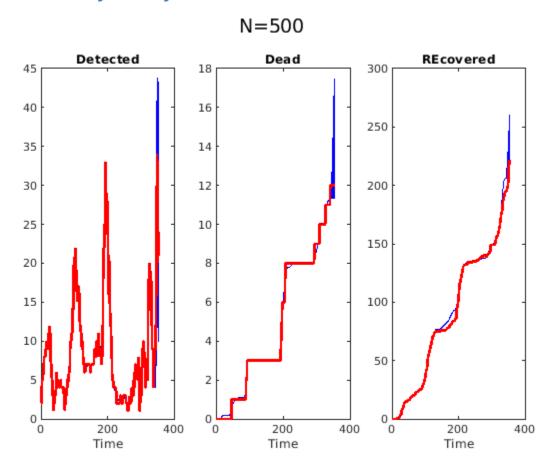
parameter interva	Rango		Nominal	Mejor	Index
\lambda_{fq}	'0'	'0.6501'	'0.4997'	'0.2889'	'0.0594'
\vartheta_E	'0.0172'	'0.0377'	'0.0001'	'0.0366'	'0.0481'
\gamma_L	'0'	'1'	'0.9264'	'1'	'0.0832'
k_L	'1'	'10'	'5.4932'	'6.8489'	'0.0575'
\lambda_{qf}	'0'	'1'	'0.5005'	'0.9022'	'0.0616'
\delta	'0.0476'	'0.0954'	'0.0038'	'0.0865'	'0.0897'
\eta_L	'0'	'0.8859'	'0.4982'	'0.3937'	'0.0603'
\vartheta_P	'0'	'0'	'0'	'0'	'0.0397'
\gamma_H	'0.3829'	'1'	'0.8182'	'0.7307'	'0.0715'
z	'0'	'26.7086'	'14.9598'	'11.8705'	'0.0607'
\eta_\vartheta	'0.3025'	'1'	'0.6099'	'0.549'	'0.0699'
a_L	'1'	'15'	'4.8139'	'2.4223'	'0.0904'
b_L	'1'	'15'	'11.1573'	'9.0191'	'0.0903'
a_\mu	'1'	'15'	'5.332'	'3.4576'	'0.0768'
b_\mu	'1'	'15'	'9.7794'	'14.999'	'0.078'
\mu	'0'	'0.071'	'0.1893'	'0.0315'	'0.091'
a_H	'1.0526'	'3.0022'	'2.2302'	'2.7554'	'0.0745'
b_H	'4.7645'	'15'	'6.8541'	'15'	'0.0906'
\nu	'0.8583'	'500'	'237.2378'	'400.7899'	'0.0648'
BP	'343.5'	'345'	'342.4999'	'344.7362'	'0.093'
reg	'0'	'0.25'	'0.1249'	'0.1251'	'0.0589'











Chapter 12. Extension number 12

12.1. Basic information

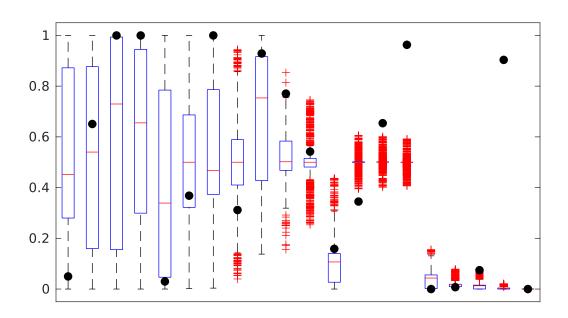
The extension to be validated consists of the time series from the data355 to the 362. The status of the validation is: COMPLETED.

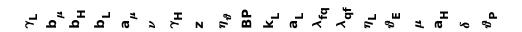
The number of estimations needed to perform the validation was 1000.

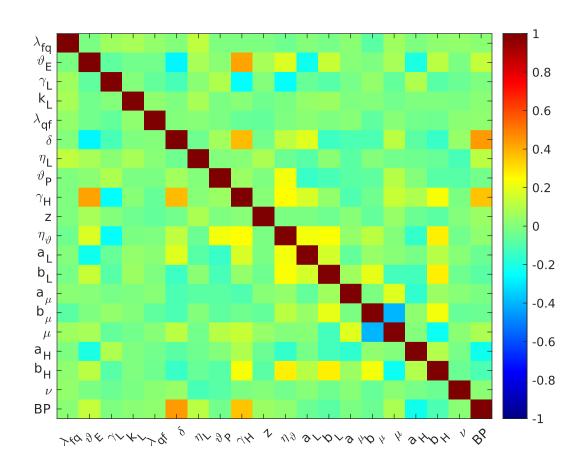
12.2. Estimated parameters with their intervals

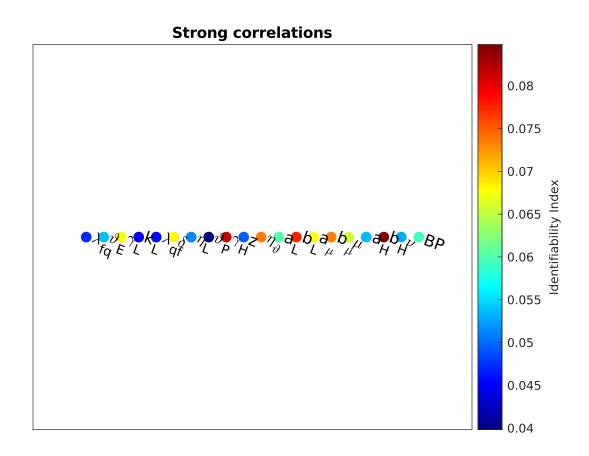
It was necessary to fix 0 parameters of 10 that could be fixed to complete validation.

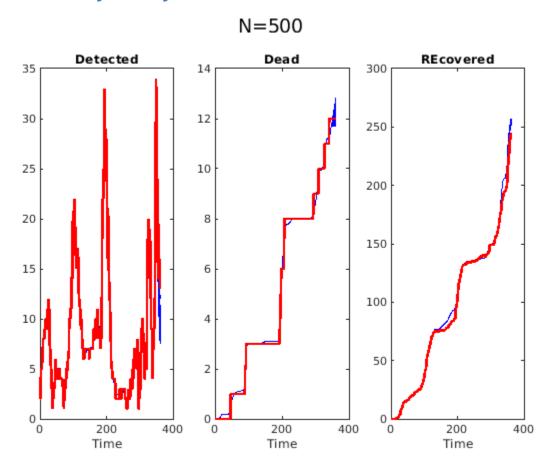
	Rango		Nominal	Mejor	Index
\lambda_{fq}	'0.4853'	'0.5147'	'0.5'	'0.3449'	'0.0474'
\vartheta_E	'0.0404'	'0.0462'	'0.0433'	'0'	'0.0538'
\gamma_L	'0.4261'	'0.4764'	'0.4513'	'0.0498'	'0.0676'
k_L	'5.3736'	'5.6264'	'5.5'	'5.877'	'0.0445'
\lambda_{qf}	'0.4855'	'0.5146'	'0.5'	'0.654'	'0.0459'
\delta	'0'	'0.004'	'0.0006'	'0.1355'	'0.068'
\eta_L	'0.4861'	'0.5139'	'0.5'	'0.9629'	'0.0513'
\vartheta_P	'0'	'0.0002'	'0'	'0'	'0.0398'
\gamma_H	'0.4435'	'0.4908'	'0.4672'	'1'	'0.0814'
z	'14.506'	'15.4941'	'15'	'9.3499'	'0.0495'
\eta_\vartheta	'0.7324'	'0.7747'	'0.7535'	'0.9287'	'0.0737'
a_L	'2.2856'	'2.7106'	'2.4981'	'3.219'	'0.0603'
b_L	'9.7713'	'10.5744'	'10.1729'	'14.9966'	'0.0777'
a_\mu	'5.3243'	'6.1679'	'5.7461'	'1.4173'	'0.0679'
b_\mu	'8.1569'	'8.9655'	'8.5612'	'10.1104'	'0.0734'
\mu	'0'	'0.0383'	'0.0189'	'0.0074'	'0.0656'
a_H	'1.0231'	'1.3415'	'1.1823'	'2.0415'	'0.0537'
b_H	'10.7716'	'11.6568'	'11.2142'	'14.9978'	'0.0848'
\nu	'239.8951'	'260.107'	'250.001'	'184.0666'	'0.0529'
BP	'348.9389'	'349.0837'	'349.0113'	'350.6234'	'0.0596'











Chapter 13. Extension number 13

13.1. Basic information

The extension to be validated consists of the time series from the data362 to the 370. The status of the validation is: COMPLETED.

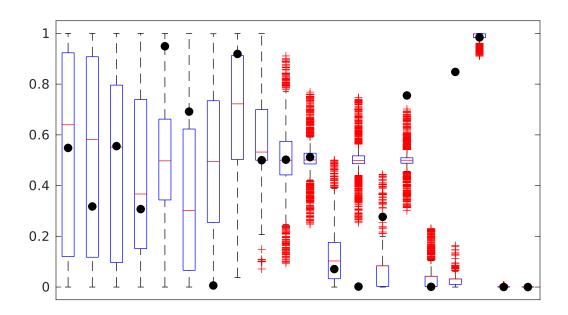
The number of estimations needed to perform the validation was 1000.

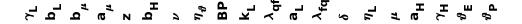
13.2. Estimated parameters with their intervals

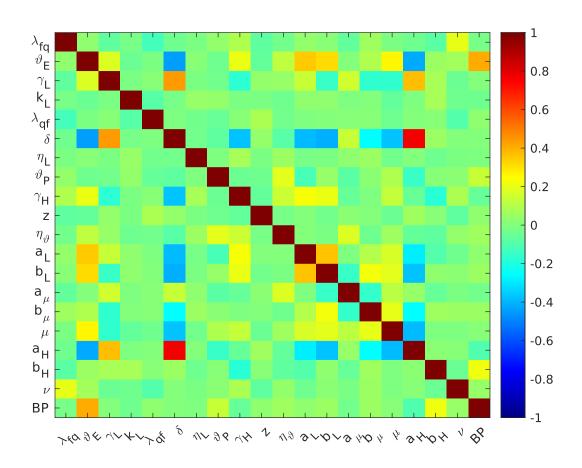
It was necessary to fix 0 parameters of 10 that could be fixed to complete validation.

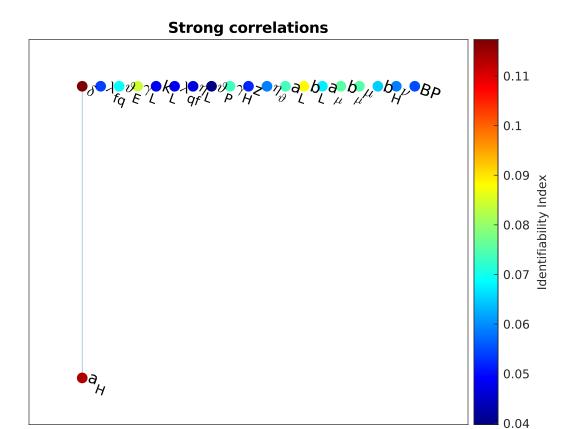
Due to a deviation from the median the CSB method was activated to obtain the

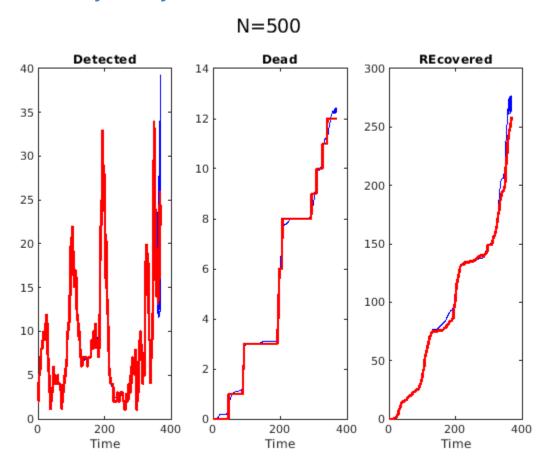
parameter interva	Rango		Nominal	Mejor	Index
\lambda_{fq}	'0'	'0.0041'	'0.4995'	'0.0018'	'0.0541'
\vartheta_E	'0'	'0.0005'	'0.0016'	'0.0002'	'0.0691'
\gamma_L	'0.1548'	'0.5549'	'0.6399'	'0.5485'	'0.0843'
k_L	'1'	'9.64'	'5.4992'	'5.5194'	'0.0483'
\lambda_{qf}	'0'	'1'	'0.5009'	'0.5121'	'0.0485'
\delta	'0.0399'	'0.0769'	'0.0126'	'0.0415'	'0.1173'
\eta_L	'0'	'0.96'	'0.5'	'0.7554'	'0.0464'
\vartheta_P	'0'	'0.0001'	'0'	'0'	'0.0397'
\gamma_H	'0'	'1'	'0.9833'	'0.9842'	'0.0736'
z	'1.163'	'30'	'14.9287'	'28.482'	'0.0523'
\eta_\vartheta	'0.6523'	'0.9792'	'0.7223'	'0.9191'	'0.0589'
a_L	'1'	'15'	'2.4403'	'1.9921'	'0.0739'
b_L	'1'	'7.2308'	'9.1442'	'5.4474'	'0.0885'
a_\mu	'1'	'13.768'	'6.1366'	'5.3025'	'0.0676'
b_\mu	'1.28'	'15'	'8.7249'	'8.7787'	'0.0758'
\mu	'0'	'0.0019'	'0.0425'	'0.0009'	'0.0751'
a_H	'9.4199'	'14.721'	'1.4515'	'12.8748'	'0.1134'
b_H	'3.0955'	'11.4046'	'5.2301'	'10.6838'	'0.0651'
\nu	'2.1531'	'19.9247'	'247.5473'	'3.0718'	'0.059'
BP	'357.4918'	'359.258'	'357.6612'	'357.5'	'0.055'











Chapter 14. Extension number 14

14.1. Basic information

The extension to be validated consists of the time series from the data370 to the 377. The status of the validation is: COMPLETED.

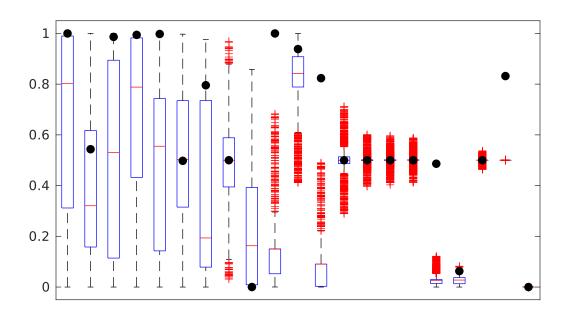
The number of estimations needed to perform the validation was 1000.

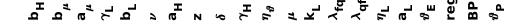
14.2. Estimated parameters with their intervals

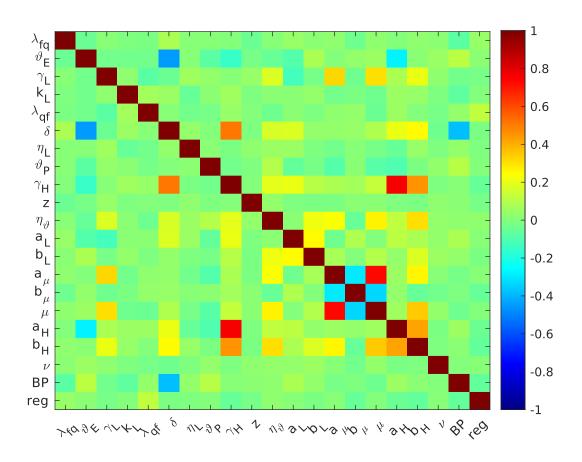
It was necessary to fix 0 parameters of 11 that could be fixed to complete validation.

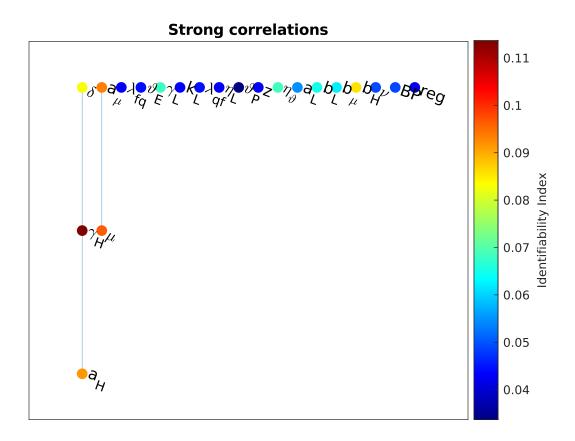
Due to a deviation from the median the CSB method was activated to obtain the

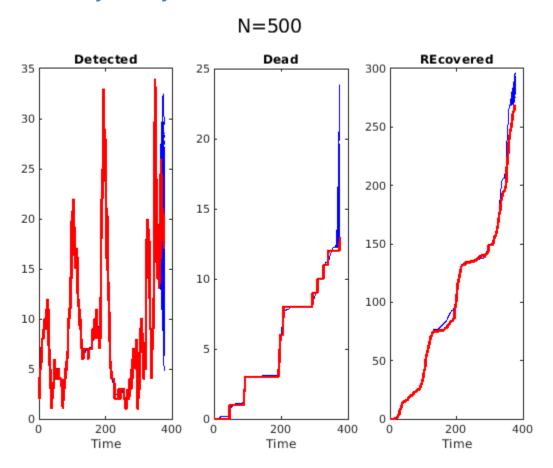
parameter interva	Rango		Nominal	Mejor	Index
\lambda_{fq}	'0'	'1'	'0.5'	'0.5'	'0.0431'
\vartheta_E	'0.0352'	'0.0689'	'0.0276'	'0.0628'	'0.0445'
\gamma_L	'0'	'1'	'0.7883'	'0.9943'	'0.0683'
k_L	'1'	'10'	'5.4999'	'5.5001'	'0.044'
\lambda_{qf}	'0'	'0.95'	'0.5'	'0.5'	'0.0447'
\delta	'0'	'0'	'0.0244'	'0'	'0.0827'
\eta_L	'0'	'0.92'	'0.5'	'0.5'	'0.0433'
\vartheta_P	'0'	'0'	'0'	'0'	'0.0337'
\gamma_H	'0.1759'	'1'	'0.1502'	'0.9998'	'0.1137'
Z	'0'	'30'	'15'	'15.0001'	'0.0432'
\eta_\vartheta	'0.4498'	'1'	'0.8415'	'0.9383'	'0.0686'
a_L	'3.3216'	'15'	'1.3693'	'7.807'	'0.0549'
b_L	'1'	'15'	'8.7719'	'14.9689'	'0.065'
a_\mu	'9.442'	'15'	'8.4241'	'14.8073'	'0.0934'
b_\mu	'1'	'9.512'	'5.4874'	'8.6084'	'0.0624'
\mu	'0'	'0.92'	'0.0904'	'0.8236'	'0.0962'
a_H	'7.187'	'12.3706'	'3.7105'	'12.1392'	'0.0918'
b_H	'8.1139'	'15'	'12.2252'	'14.9975'	'0.0856'
\nu	'15.4406'	'500'	'251.449'	'248.8311'	'0.0495'
BP	'362.125'	'367'	'364.5'	'366.1592'	'0.0492'
reg	'0'	'0.25'	'0.125'	'0.125'	'0.0428'











Chapter 15. Extension number 15

15.1. Basic information

The extension to be validated consists of the time series from the data377 to the 391. The status of the validation is: COMPLETED.

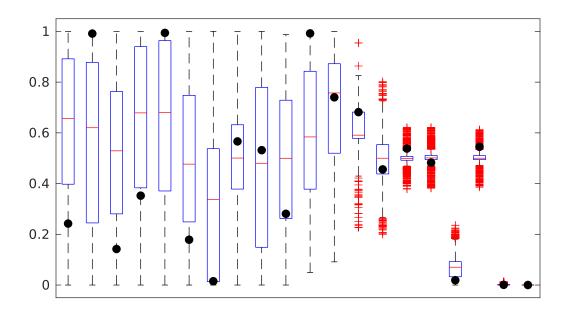
The number of estimations needed to perform the validation was 1000.

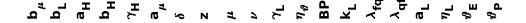
15.2. Estimated parameters with their intervals

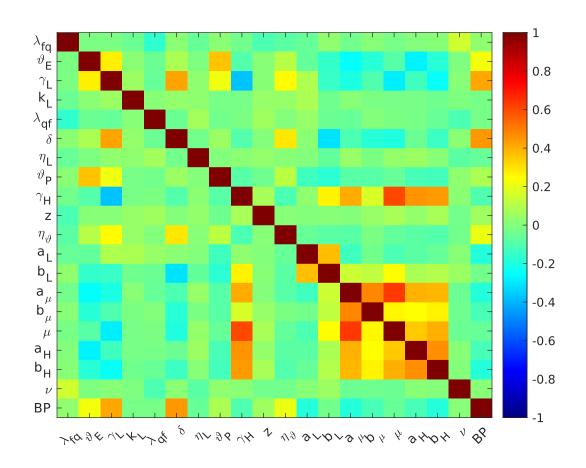
It was necessary to fix 0 parameters of 10 that could be fixed to complete validation.

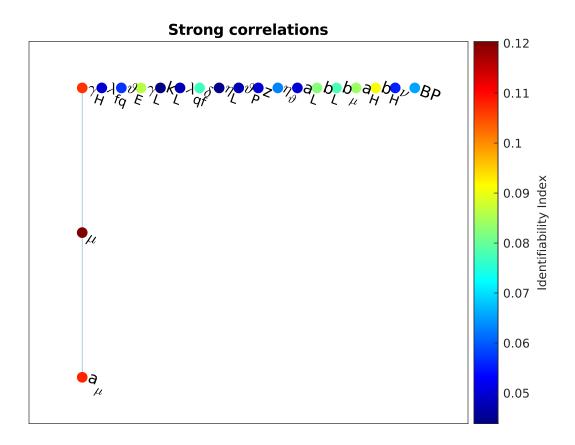
Due to a deviation from the median the CSB method was activated to obtain the

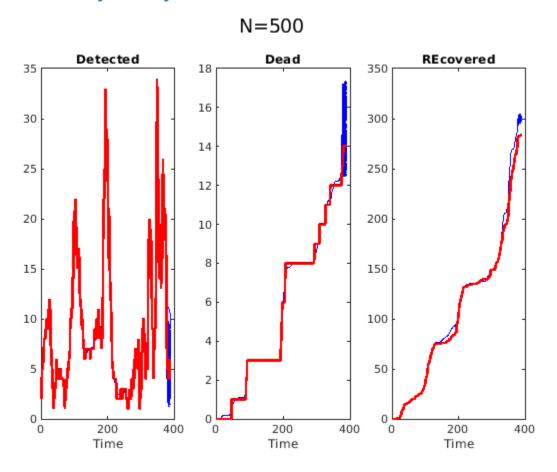
parameter interva	Rango		Nominal	Mejor	Index
\lambda_{fq}	'0.025'	'1'	'0.4994'	'0.5381'	'0.0496'
\vartheta_E	'0'	'0.0018'	'0.0024'	'0.0008'	'0.0573'
\gamma_L	'0.6395'	'1'	'0.584'	'0.9923'	'0.086'
k_L	'1'	'10'	'5.5003'	'5.1044'	'0.0439'
\lambda_{qf}	'0.02'	'1'	'0.5012'	'0.4829'	'0.0479'
\delta	'0'	'0.0051'	'0.0506'	'0.0023'	'0.0773'
\eta_L	'0'	'1'	'0.5'	'0.5451'	'0.0447'
\vartheta_P	'0'	'0.0005'	'0'	'0.0002'	'0.0476'
\gamma_H	'0.069'	'1'	'0.6798'	'0.9942'	'0.1066'
z	'0'	'28.5'	'15.0206'	'16.991'	'0.0503'
\eta_\vartheta	'0.6708'	'0.982'	'0.7574'	'0.7401'	'0.0632'
a_L	'1.0838'	'1.486'	'1.9849'	'1.2682'	'0.0502'
b_L	'11.6102'	'15'	'9.6835'	'14.8803'	'0.0827'
a_\mu	'1'	'12.97'	'7.6745'	'3.5023'	'0.1079'
b_\mu	'1.28'	'15'	'10.1942'	'4.3928'	'0.0779'
\mu	'0.04'	'1'	'0.4802'	'0.5318'	'0.1203'
a_H	'1.35'	'14.454'	'8.4083'	'2.9898'	'0.0839'
b_H	'1.6913'	'15'	'10.5036'	'5.934'	'0.0909'
\nu	'0'	'316.0286'	'249.876'	'140.4571'	'0.0556'
BP	'376.7864'	'378.4295'	'376.5'	'377.5'	'0.0655'











Chapter 16. Extension number 16

16.1. Basic information

The extension to be validated consists of the time series from the data391 to the 402. The status of the validation is: COMPLETED.

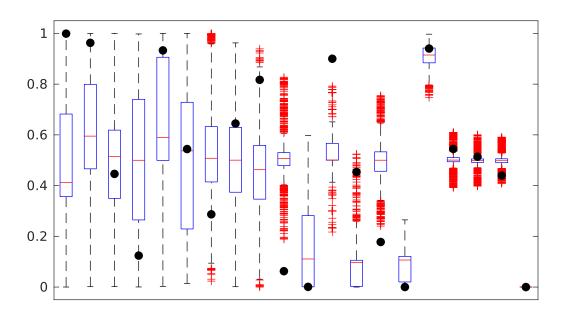
The number of estimations needed to perform the validation was 1000.

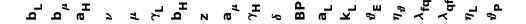
16.2. Estimated parameters with their intervals

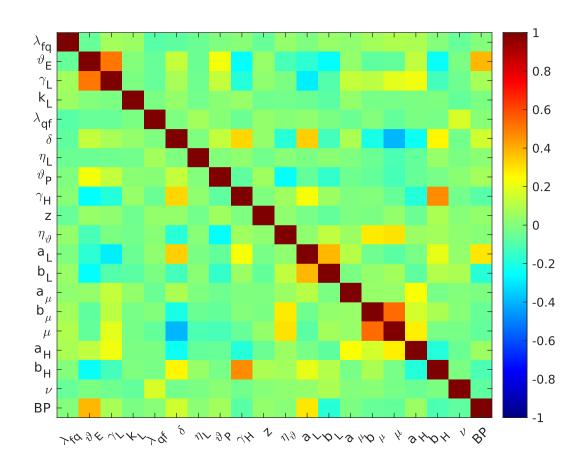
It was necessary to fix 0 parameters of 10 that could be fixed to complete validation.

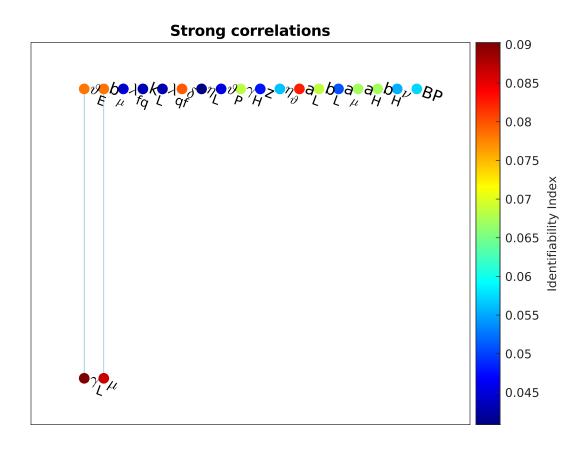
Due to a deviation from the median the CSB method was activated to obtain the

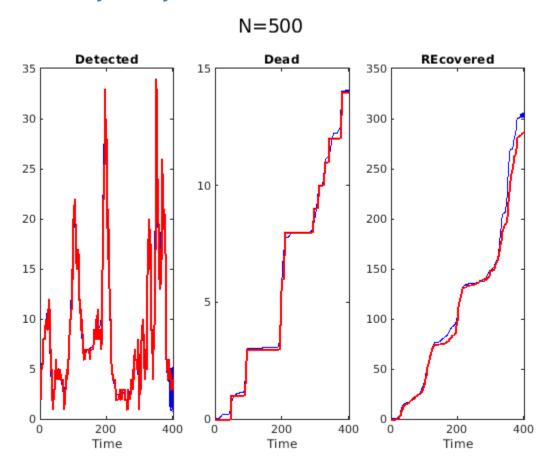
	Rango		Nominal	Mejor	Index
\lambda_{fq}	'0'	'0.95'	'0.5006'	'0.5445'	'0.0446'
\vartheta_E	'0'	'0.0002'	'0.1066'	'0.0001'	'0.0782'
\gamma_L	'0.1344'	'0.8726'	'0.5371'	'0.5441'	'0.0902'
k_L	'1.0969'	'5.8465'	'5.5005'	'2.5984'	'0.0431'
\lambda_{qf}	'0'	'1'	'0.4989'	'0.5139'	'0.0431'
\delta	'0'	'0.0002'	'0.0166'	'0.0001'	'0.0795'
\eta_L	'0'	'0.989'	'0.4998'	'0.4396'	'0.0408'
\vartheta_P	'0'	'0'	'0'	'0'	'0.0454'
\gamma_H	'0'	'0.1337'	'0.5067'	'0.0625'	'0.0683'
Z	'0'	'30'	'15.0093'	'19.3408'	'0.0479'
\eta_\vartheta	'0.5305'	'1'	'0.9147'	'0.9403'	'0.0564'
a_L	'3.5892'	'7.4143'	'2.3495'	'7.354'	'0.0826'
b_L	'12.3248'	'15'	'6.7616'	'14.9876'	'0.0685'
a_\mu	'1'	'15'	'7.4778'	'12.4368'	'0.0509'
b_\mu	'1'	'15'	'9.3304'	'14.48'	'0.0784'
\mu	'0'	'1'	'0.589'	'0.933'	'0.0868'
a_H	'1'	'15'	'8.21'	'7.2452'	'0.0672'
b_H	'1'	'15'	'8.1066'	'5.0144'	'0.0672'
\nu	'0'	'133.9052'	'249.9392'	'61.9932'	'0.0555'
BP	'388.5'	'391.335'	'384.5135'	'390.5018'	'0.0573'











Chapter 17. Extension number 17

17.1. Basic information

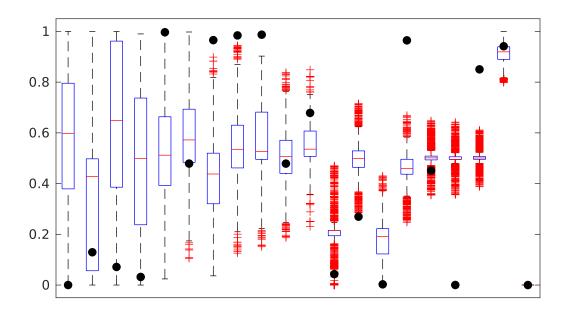
The extension to be validated consists of the time series from the data402 to the 415. The status of the validation is: COMPLETED.

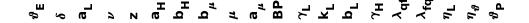
The number of estimations needed to perform the validation was 1000.

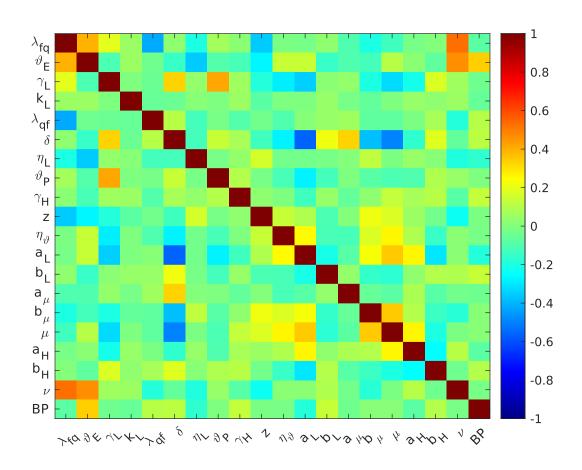
17.2. Estimated parameters with their intervals

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

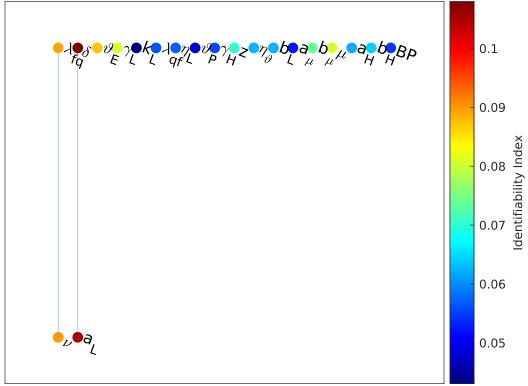
	Rango		Nominal	Mejor	Index
\lambda_{fq}	'0.4794'	'0.5118'	'0.4956'	'0.0003'	'0.0891'
\vartheta_E	'0.5753'	'0.6195'	'0.5974'	'0'	'0.0869'
\gamma_L	'0.1975'	'0.2337'	'0.2156'	'0.0431'	'0.0813'
k_L	'5.4041'	'5.5862'	'5.4952'	'3.4266'	'0.0431'
\lambda_{qf}	'0.4902'	'0.5127'	'0.5014'	'0.4513'	'0.0566'
\delta	'0.061'	'0.0675'	'0.0642'	'0.0194'	'0.108'
\eta_L	'0.4896'	'0.5123'	'0.501'	'0.8504'	'0.0571'
\vartheta_P	'0'	'0.0011'	'0'	'0'	'0.0482'
\gamma_H	'0.4461'	'0.4736'	'0.4599'	'0.9647'	'0.0556'
Z	'14.8639'	'15.8581'	'15.361'	'29.901'	'0.0703'
\eta_\vartheta	'0.9103'	'0.9284'	'0.9193'	'0.9414'	'0.0627'
a_L	'9.7525'	'10.4134'	'10.083'	'1.999'	'0.1047'
b_L	'3.4763'	'3.8899'	'3.6831'	'1.039'	'0.0624'
a_\mu	'7.9472'	'8.2602'	'8.1037'	'7.7031'	'0.0525'
b_\mu	'8.3082'	'8.6784'	'8.4933'	'14.7791'	'0.0736'
\mu	'0.5113'	'0.5424'	'0.5268'	'0.9871'	'0.081'
a_H	'8.8315'	'9.1786'	'9.0051'	'7.7048'	'0.0623'
b_H	'6.9549'	'7.3102'	'7.1326'	'14.5183'	'0.0641'
\nu	'238.0146'	'260.5609'	'249.2877'	'15.9649'	'0.09'
ВР	'398.369'	'398.631'	'398.5'	'400.5'	'0.0546'

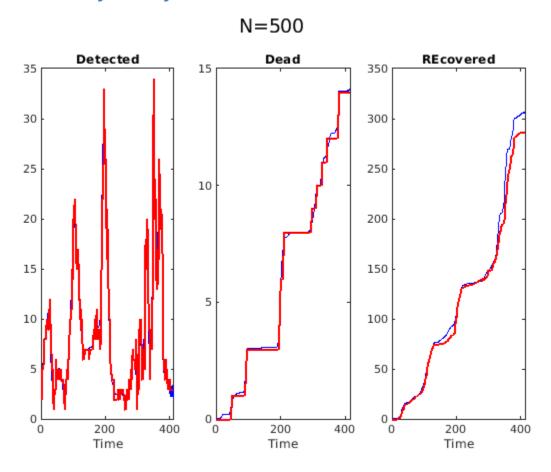






Strong correlations





Chapter 18. Extension number 18

18.1. Basic information

The extension to be validated consists of the time series from the data415 to the 415. The status of the validation is: COMPLETED.

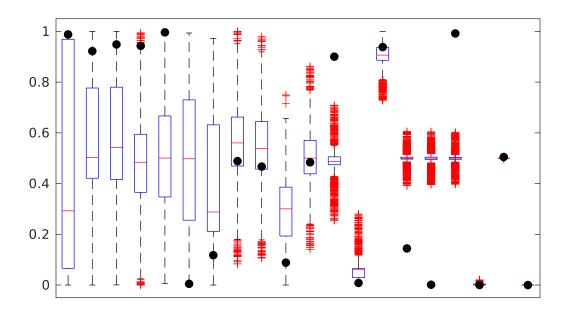
The number of estimations needed to perform the validation was 1000.

18.2. Estimated parameters with their intervals

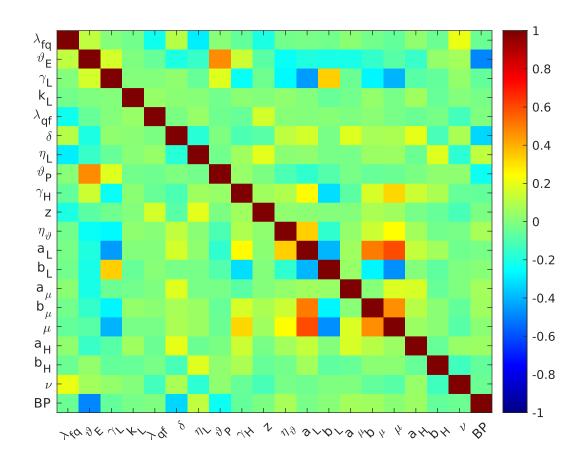
It was necessary to fix 0 parameters of 10 that could be fixed to complete validation.

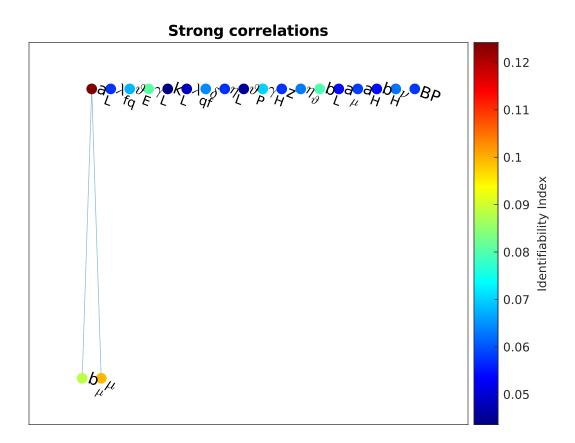
Due to a deviation from the median the CSB method was activated to obtain the

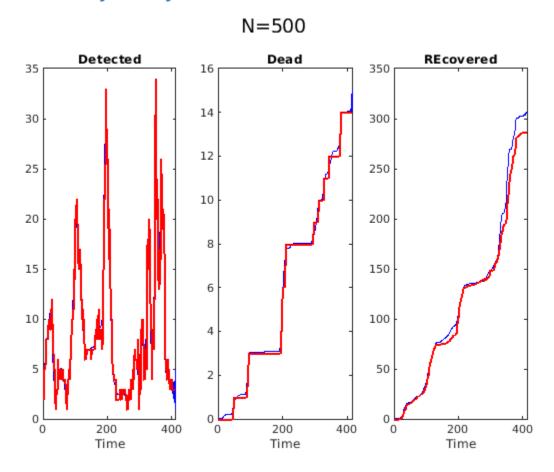
parameter interva	Rango		Nominal	Mejor	Index
\lambda_{fq}	'0.1443'	'0.1443'	'0.4995'	'0.1443'	'0.0575'
\vartheta_E	'0'	'0'	'0.0038'	'0'	'0.068'
\gamma_L	'0.0823'	'0.1764'	'0.2881'	'0.1176'	'0.0808'
k_L	'3.7485'	'8.0325'	'5.5049'	'5.355'	'0.0436'
\lambda_{qf}	'0.0009'	'0.0019'	'0.5002'	'0.0013'	'0.0484'
\delta	'0.0093'	'0.0199'	'0.045'	'0.0132'	'0.0645'
\eta_L	'0.6943'	'1'	'0.5001'	'0.9919'	'0.0573'
\vartheta_P	'0'	'0'	'0'	'0'	'0.0453'
\gamma_H	'0.6303'	'1'	'0.4868'	'0.9004'	'0.0701'
Z	'20.9205'	'30'	'15.021'	'29.8865'	'0.0575'
\eta_\vartheta	'0.6567'	'1'	'0.9066'	'0.9382'	'0.0632'
a_L	'10.3812'	'15'	'5.0948'	'14.8302'	'0.1242'
b_L	'1'	'1.6741'	'1.8719'	'1.1161'	'0.0795'
a_\mu	'5.278'	'11.31'	'8.5358'	'7.54'	'0.0545'
b_\mu	'9.997'	'15'	'8.5853'	'14.2815'	'0.0886'
\mu	'0.6456'	'1'	'0.5031'	'0.9223'	'0.0994'
a_H	'5.4886'	'11.7613'	'8.8454'	'7.8409'	'0.0584'
b_H	'9.9423'	'15'	'7.7781'	'14.2033'	'0.0544'
\nu	'1.7067'	'3.6573'	'248.9137'	'2.4382'	'0.0628'
ВР	'402'	'405'	'403.5'	'403.5143'	'0.058'











Chapter 19. Extension number 19

19.1. Basic information

The extension to be validated consists of the time series from the data415 to the 435. The status of the validation is: COMPLETED.

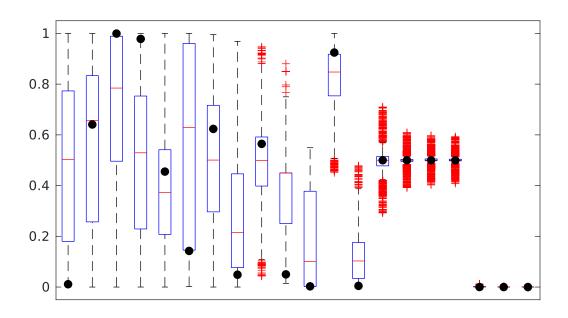
The number of estimations needed to perform the validation was 1000.

19.2. Estimated parameters with their intervals

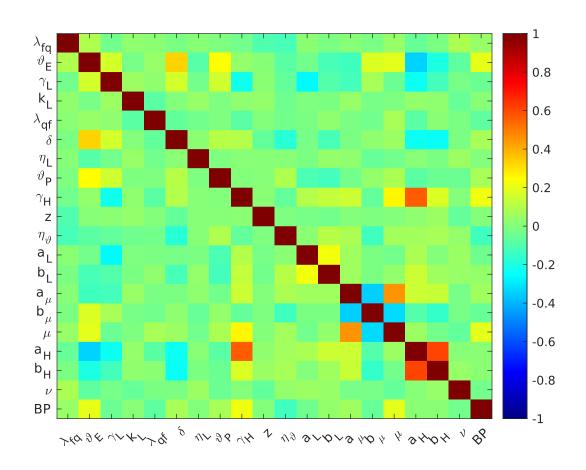
It was necessary to fix 0 parameters of 10 that could be fixed to complete validation.

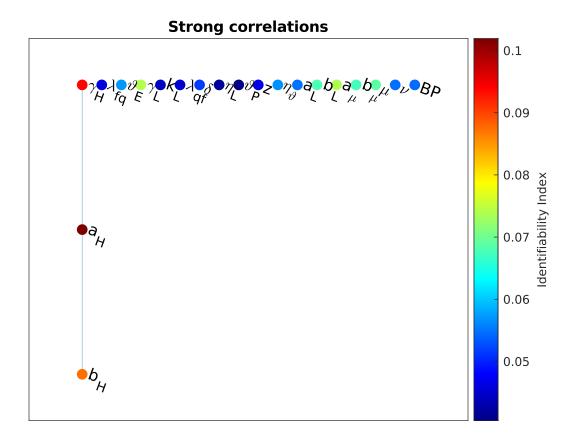
Due to a deviation from the median the CSB method was activated to obtain the

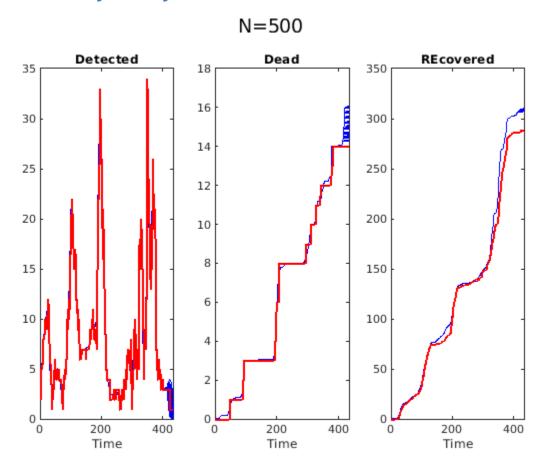
	Rango		Nominal	Mejor	Index
\lambda_{fq}	'0'	'1'	'0.5'	'0.5'	'0.0462'
\vartheta_E	'0'	'0'	'0.0004'	'0'	'0.0571'
\gamma_L	'0'	'1'	'0.5293'	'0.9784'	'0.0743'
k_L	'1'	'10'	'5.4994'	'5.4987'	'0.0444'
\lambda_{qf}	'0'	'1'	'0.5'	'0.4999'	'0.0455'
\delta	'0'	'0'	'0.0003'	'0'	'0.0515'
\eta_L	'0'	'1'	'0.5'	'0.4996'	'0.0417'
\vartheta_P	'0'	'0'	'0'	'0'	'0.0405'
\gamma_H	'0.0797'	'0.3688'	'0.6293'	'0.1424'	'0.0939'
z	'0'	'30'	'14.9849'	'16.936'	'0.0465'
\eta_\vartheta	'0.5345'	'1'	'0.8476'	'0.9245'	'0.0568'
a_L	'1'	'15'	'2.4394'	'1.0636'	'0.055'
b_L	'1'	'15'	'8.0308'	'1.1559'	'0.068'
a_\mu	'1'	'15'	'10.1998'	'9.9726'	'0.074'
b_\mu	'1'	'15'	'4.0148'	'1.6805'	'0.0675'
\mu	'0'	'0.0062'	'0.1009'	'0.0028'	'0.0688'
a_H	'1.2296'	'9.1526'	'6.2287'	'7.3725'	'0.1019'
b_H	'6.6479'	'15'	'11.9834'	'14.9911'	'0.0873'
\nu	'0'	'500'	'250.2959'	'311.7658'	'0.0547'
BP	'415.4673'	'422.3463'	'419.4981'	'415.5'	'0.0545'











Chapter 20. Extension number 20

20.1. Basic information

The extension to be validated consists of the time series from the data435 to the 437. The status of the validation is: COMPLETED.

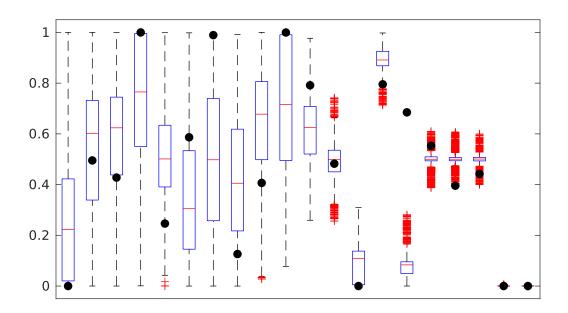
The number of estimations needed to perform the validation was 1000.

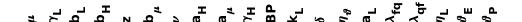
20.2. Estimated parameters with their intervals

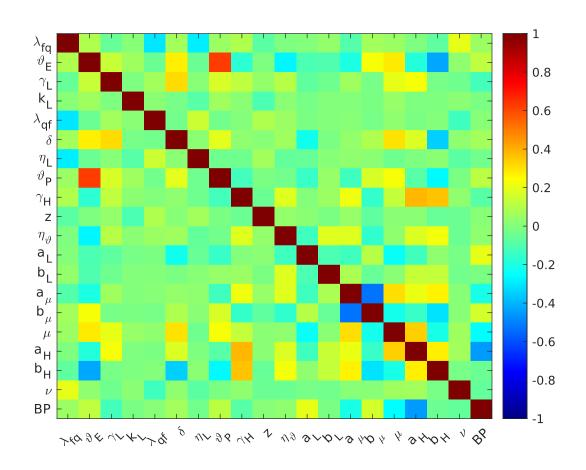
It was necessary to fix 0 parameters of 10 that could be fixed to complete validation.

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

parameter interva	Rango		Nominal	Mejor	Index
\lambda_{fq}	'0'	'1'	'0.5'	'0.5532'	'0.056'
\vartheta_E	'0'	'0.0001'	'0.001'	'0'	'0.0804'
\gamma_L	'0'	'1'	'0.6022'	'0.4953'	'0.0696'
k_L	'1.18'	'10'	'5.4907'	'5.3417'	'0.0421'
\lambda_{qf}	'0.0223'	'0.8902'	'0.5002'	'0.3957'	'0.0476'
\delta	'0'	'0'	'0.0162'	'0'	'0.0601'
\eta_L	'0'	'0.9947'	'0.5007'	'0.4421'	'0.0474'
\vartheta_P	'0'	'0.0001'	'0'	'0'	'0.069'
\gamma_H	'0.5511'	'1'	'0.7159'	'0.9997'	'0.074'
z	'0'	'15.7976'	'15.0352'	'7.3907'	'0.0497'
\eta_\vartheta	'0.7388'	'1'	'0.8914'	'0.7954'	'0.0625'
a_L	'1'	'15'	'2.1682'	'10.5881'	'0.0636'
b_L	'1'	'14.3'	'9.7338'	'6.9881'	'0.0565'
a_\mu	'1'	'15'	'10.4882'	'6.692'	'0.0921'
b_\mu	'1'	'15'	'5.2691'	'9.2113'	'0.0885'
\mu	'0'	'0'	'0.2223'	'0'	'0.0793'
a_H	'2.2687'	'2.9637'	'6.6745'	'2.7672'	'0.0818'
b_H	'12.9536'	'15'	'11.7136'	'14.9978'	'0.0836'
\nu	'0'	'500'	'248.9191'	'494.6708'	'0.0582'
BP	'422.7546'	'427'	'422.5'	'424.5'	'0.0599'

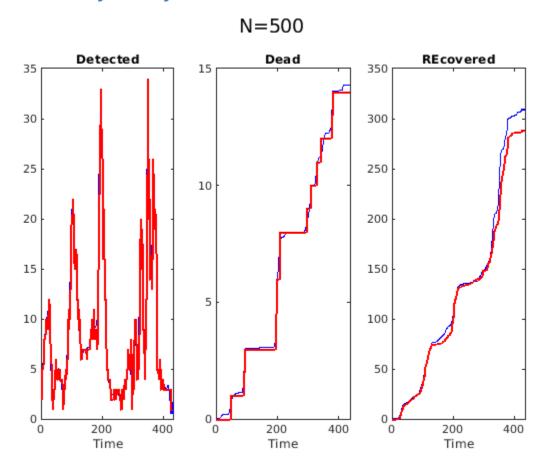






Strong correlations 0.09 0.085 0.08 0.07 0.07 0.065 0.055 0.05

0.045



Chapter 21. Extension number 21

21.1. Basic information

The extension to be validated consists of the time series from the data437 to the 451. The status of the validation is: COMPLETED.

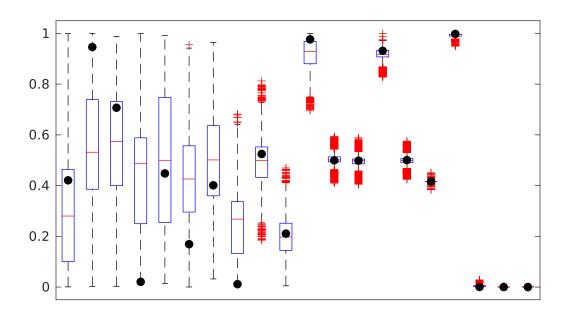
The number of estimations needed to perform the validation was 1000.

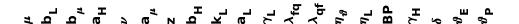
21.2. Estimated parameters with their intervals

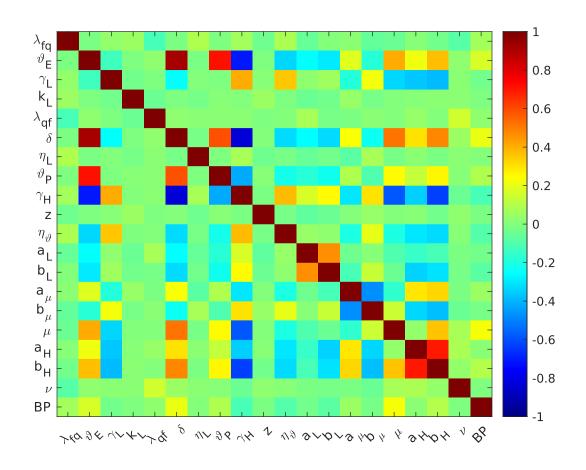
It was necessary to fix 0 parameters of 10 that could be fixed to complete validation.

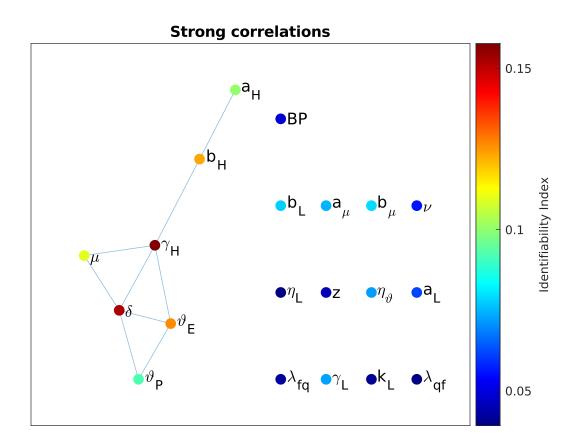
Due to a deviation from the median the CSB method was activated to obtain the

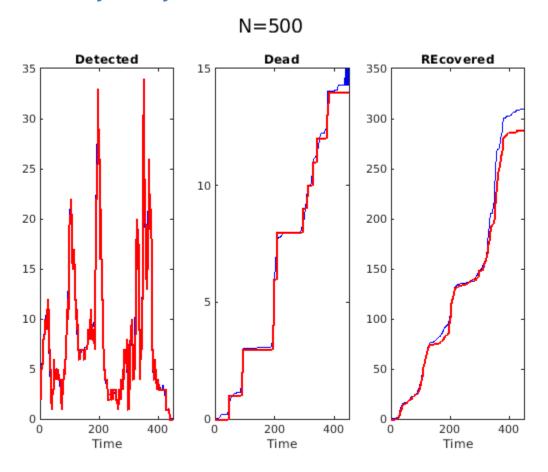
parameter interva	Rango		Nominal	Mejor	Index
\lambda_{fq}	'0'	'1'	'0.5012'	'0.4996'	'0.0427'
\vartheta_E	'0'	'0.0001'	'0.0004'	'0'	'0.1266'
\gamma_L	'0.8116'	'1'	'0.9292'	'0.9764'	'0.073'
k_L	'1'	'10'	'5.4876'	'5.722'	'0.0412'
\lambda_{qf}	'0'	'1'	'0.4976'	'0.4983'	'0.0397'
\delta	'0'	'0.0001'	'0.0008'	'0'	'0.152'
\eta_L	'0'	'1'	'0.4996'	'0.5006'	'0.0392'
\vartheta_P	'0'	'0'	'0'	'0'	'0.092'
\gamma_H	'0.971'	'1'	'0.9891'	'0.998'	'0.1577'
z	'0'	'27.0702'	'15.0351'	'12.0312'	'0.0448'
\eta_\vartheta	'0.6178'	'1'	'0.9173'	'0.9313'	'0.0721'
a_L	'3.8124'	'4.3689'	'3.7617'	'3.9489'	'0.0619'
b_L	'13.1055'	'14.4953'	'8.4413'	'14.2465'	'0.0779'
a_\mu	'1'	'15'	'6.9641'	'3.3652'	'0.0746'
b_\mu	'1'	'15'	'9.0229'	'10.8969'	'0.0794'
\mu	'0'	'0.9469'	'0.28'	'0.4208'	'0.11'
a_H	'1.2711'	'1.6697'	'7.8059'	'1.2886'	'0.1005'
b_H	'1.1518'	'1.3706'	'4.752'	'1.158'	'0.1231'
\nu	'0'	'500'	'249.8814'	'223.977'	'0.0561'
ВР	'437.4955'	'437.4997'	'437.5'	'437.4997'	'0.0489'











Chapter 22. Extension number 22

22.1. Basic information

The extension to be validated consists of the time series from the data451 to the 451. The status of the validation is: COMPLETED.

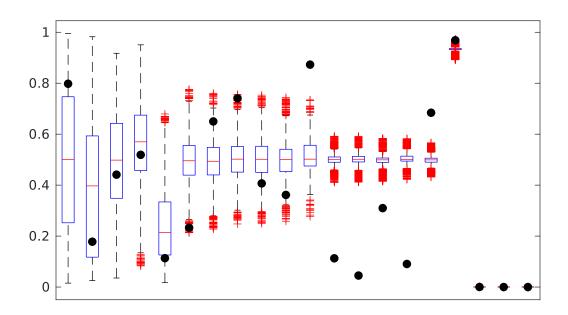
The number of estimations needed to perform the validation was 1000.

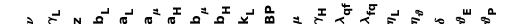
22.2. Estimated parameters with their intervals

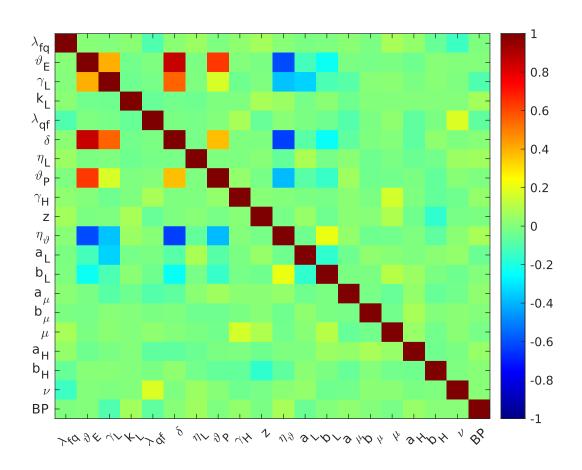
It was necessary to fix 0 parameters of 10 that could be fixed to complete validation.

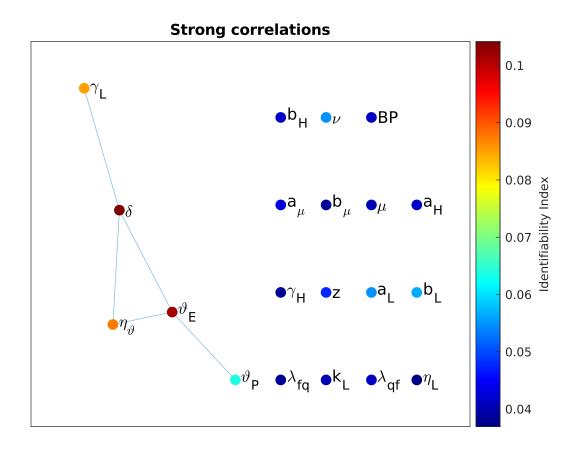
Due to a deviation from the median the CSB method was activated to obtain the

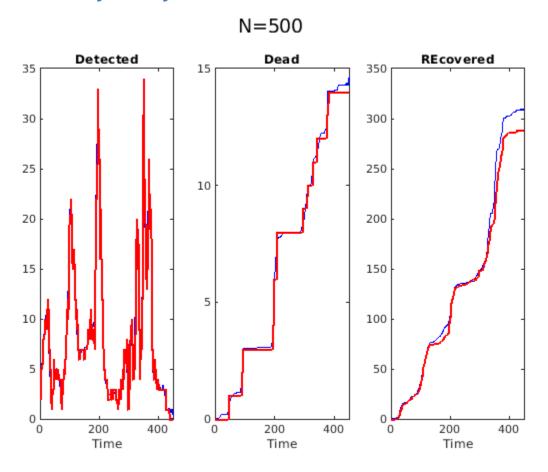
	Rango		Nominal	Mejor	Index
\lambda_{fq}	'0.0905'	'0.0905'	'0.5013'	'0.0905'	'0.0386'
\vartheta_E	'0'	'0'	'0.0001'	'0'	'0.1017'
\gamma_L	'0.1246'	'0.267'	'0.3971'	'0.178'	'0.0851'
k_L	'2.9784'	'6.3822'	'5.5013'	'4.2548'	'0.0403'
\lambda_{qf}	'0.2169'	'0.4648'	'0.4993'	'0.3099'	'0.0411'
\delta	'0'	'0'	'0.0001'	'0'	'0.1042'
\eta_L	'0.4789'	'1'	'0.4992'	'0.6842'	'0.0369'
\vartheta_P	'0'	'0'	'0'	'0'	'0.064'
\gamma_H	'0.0316'	'0.0677'	'0.5016'	'0.0451'	'0.0383'
z	'9.2641'	'19.8515'	'14.9463'	'13.2344'	'0.0479'
\eta_\vartheta	'0.6781'	'1'	'0.9325'	'0.9687'	'0.0874'
a_L	'1.8107'	'3.88'	'3.997'	'2.5867'	'0.0549'
b_L	'5.7866'	'12.3998'	'8.9769'	'8.2665'	'0.0565'
a_\mu	'2.9828'	'6.3918'	'7.9399'	'4.2612'	'0.0431'
b_\mu	'7.9591'	'15'	'8.029'	'11.3701'	'0.0385'
\mu	'0.0789'	'0.1692'	'0.5013'	'0.1128'	'0.0406'
a_H	'7.0704'	'15'	'7.9116'	'10.1005'	'0.0417'
b_H	'4.6868'	'10.0431'	'8.0224'	'6.6954'	'0.0416'
\nu	'279.2892'	'500'	'250.1411'	'398.9846'	'0.055'
ВР	'437'	'441'	'439.008'	'440.4922'	'0.0412'











Chapter 23. Extension number 23

23.1. Basic information

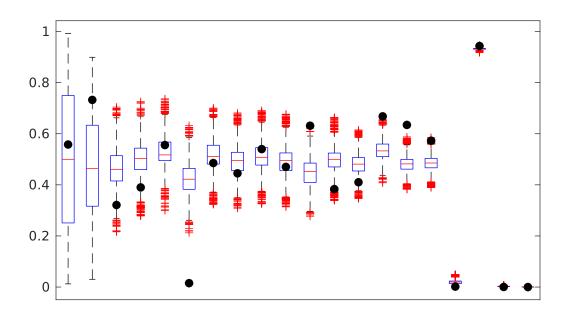
The extension to be validated consists of the time series from the data451 to the 476. The status of the validation is: COMPLETED.

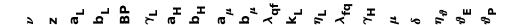
The number of estimations needed to perform the validation was 1000.

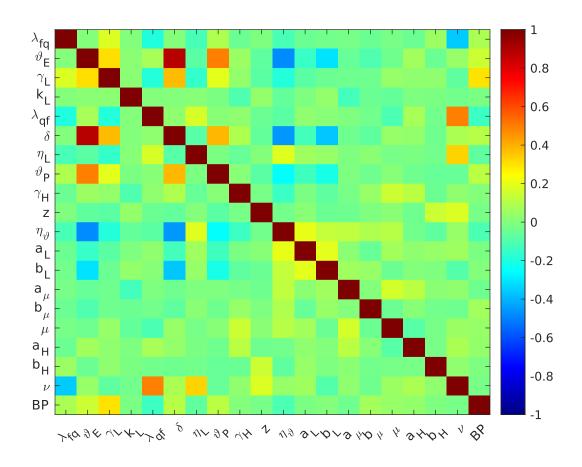
23.2. Estimated parameters with their intervals

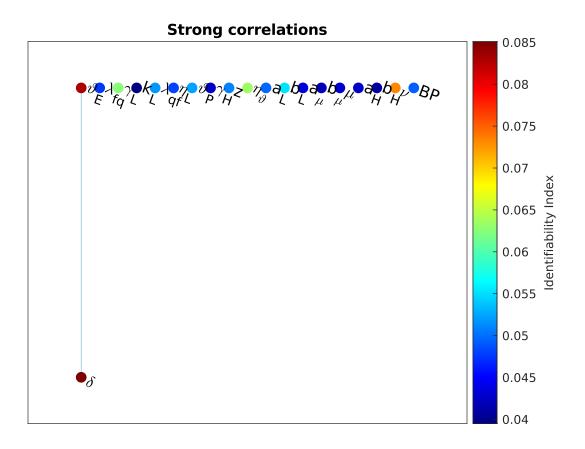
It was necessary to fix 0 parameters of 10 that could be fixed to complete validation.

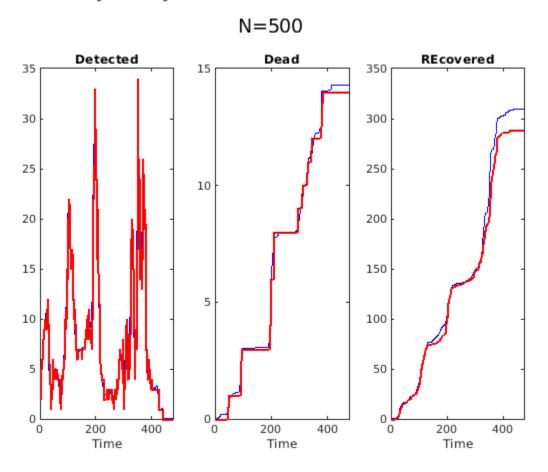
	Rango		Nominal	Mejor	Index
\lambda_{fq}	'0.5281'	'0.5375'	'0.5328'	'0.668'	'0.0475'
\vartheta_E	'0'	'0.0066'	'0.0025'	'0.0003'	'0.0831'
\gamma_L	'0.4139'	'0.4301'	'0.422'	'0.0153'	'0.0626'
k_L	'5.4348'	'5.5643'	'5.4996'	'4.45'	'0.0395'
\lambda_{qf}	'0.4463'	'0.457'	'0.4517'	'0.6314'	'0.0518'
\delta	'0.0019'	'0.004'	'0.0029'	'0.0003'	'0.0851'
\eta_L	'0.476'	'0.4861'	'0.4811'	'0.4102'	'0.0481'
\vartheta_P	'0'	'0.0008'	'0'	'0'	'0.0524'
\gamma_H	'0.4774'	'0.4866'	'0.482'	'0.6345'	'0.0425'
z	'13.4903'	'14.3757'	'13.933'	'21.9713'	'0.0509'
\eta_\vartheta	'0.9292'	'0.9349'	'0.932'	'0.9432'	'0.0634'
a_L	'7.3292'	'7.5734'	'7.4513'	'5.4955'	'0.0497'
b_L	'7.9147'	'8.1583'	'8.0365'	'6.4587'	'0.0553'
a_\mu	'8.008'	'8.2099'	'8.1089'	'8.5574'	'0.0435'
b_\mu	'7.8343'	'8.0352'	'7.9348'	'7.584'	'0.042'
\mu	'0.4811'	'0.4898'	'0.4854'	'0.5727'	'0.0432'
a_H	'8.0541'	'8.2527'	'8.1534'	'7.7941'	'0.0428'
b_H	'7.832'	'8.036'	'7.934'	'7.2305'	'0.0409'
\nu	'238.8502'	'261.0508'	'249.9505'	'278.8637'	'0.0733'
ВР	'458.6366'	'458.88'	'458.7583'	'459.3349'	'0.0494'











Chapter 24. Extension number 24

24.1. Basic information

The extension to be validated consists of the time series from the data476 to the 483. The status of the validation is: COMPLETED.

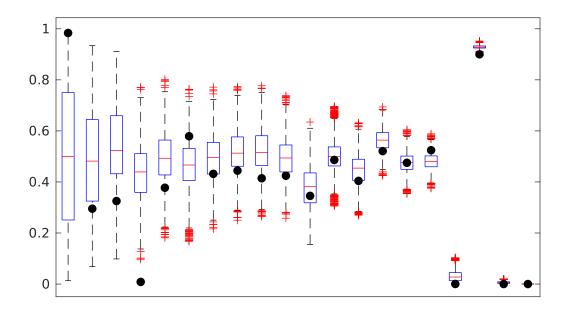
The number of estimations needed to perform the validation was 1000.

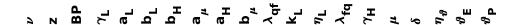
24.2. Estimated parameters with their intervals

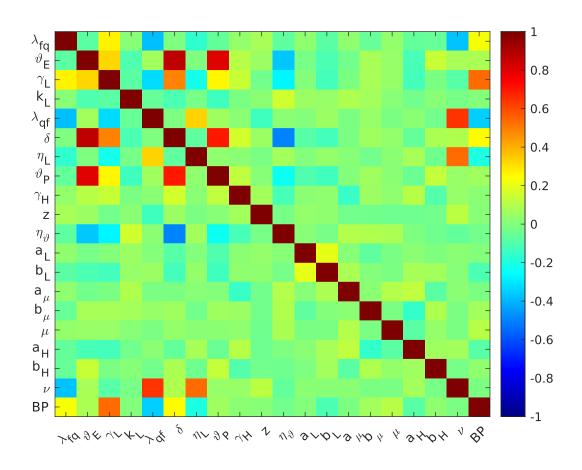
It was necessary to fix 0 parameters of 10 that could be fixed to complete validation.

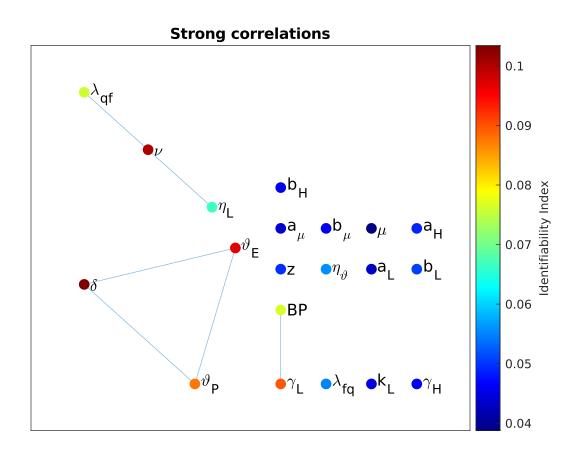
Due to a deviation from the median the CSB method was activated to obtain the

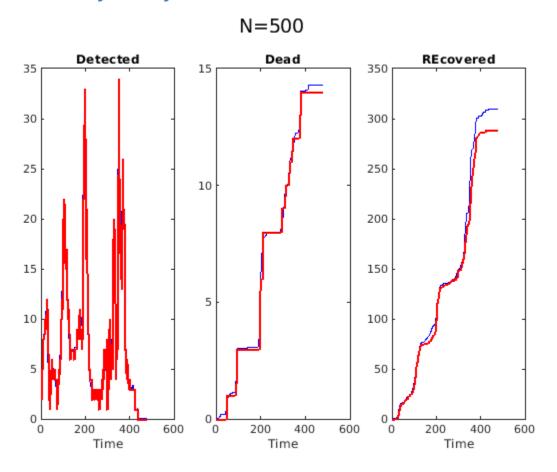
	Rango		Nominal	Mejor	Index
\lambda_{fq}	'0.139'	'1'	'0.5639'	'0.5207'	'0.0551'
\vartheta_E	'0'	'0.0002'	'0.0052'	'0.0001'	'0.0971'
\gamma_L	'0'	'0.019'	'0.4392'	'0.0085'	'0.0895'
k_L	'1'	'10'	'5.4995'	'5.3746'	'0.0449'
\lambda_{qf}	'0'	'0.7773'	'0.3814'	'0.3455'	'0.0757'
\delta	'0'	'0.0001'	'0.0041'	'0'	'0.1034'
\eta_L	'0'	'0.9094'	'0.4542'	'0.4042'	'0.0667'
\vartheta_P	'0'	0'	'0'	'0'	'0.0875'
\gamma_H	'0'	'1'	'0.4771'	'0.475'	'0.0464'
z	'0'	'19.9205'	'14.4508'	'8.8535'	'0.0496'
\eta_\vartheta	'0.8057'	'1'	'0.9282'	'0.9'	'0.0557'
a_L	'1'	'15'	'7.8988'	'6.2827'	'0.0428'
b_L	'1'	'15'	'7.5299'	'9.1067'	'0.0508'
a_\mu	'1'	'15'	'8.18'	'7.2192'	'0.0441'
b_\mu	'1'	'15'	'7.9147'	'6.9413'	'0.0458'
\mu	'0'	'1'	'0.4802'	'0.5243'	'0.0388'
a_H	'1'	'15'	'8.2139'	'6.8012'	'0.0491'
b_H	'1'	'15'	'7.9319'	'7.0431'	'0.0456'
\nu	'119.0388'	'500'	'249.8424'	'491.7592'	'0.1002'
ВР	'456.35'	'465.6'	'462.5208'	'458.1553'	'0.0764'











Chapter 25. Extension number 25

25.1. Basic information

The extension to be validated consists of the time series from the data483 to the 501. The status of the validation is: COMPLETED.

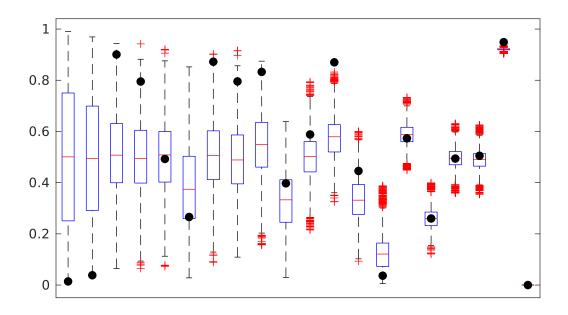
The number of estimations needed to perform the validation was 1000.

25.2. Estimated parameters with their intervals

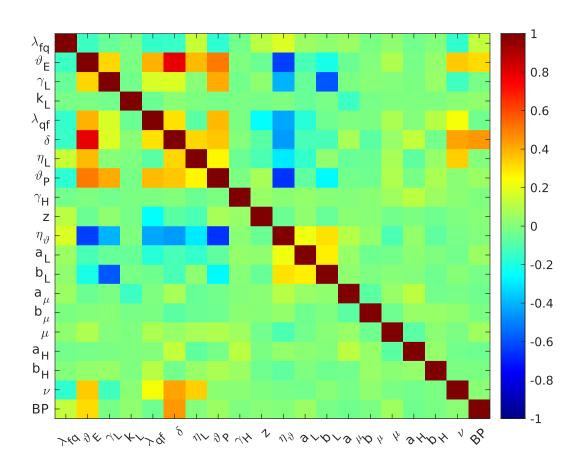
It was necessary to fix 0 parameters of 10 that could be fixed to complete validation.

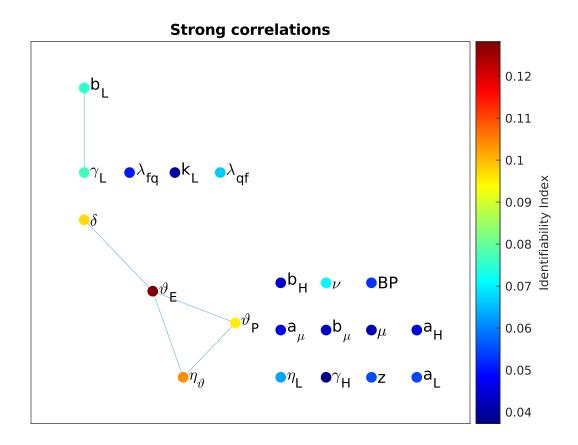
Due to a deviation from the median the CSB method was activated to obtain the

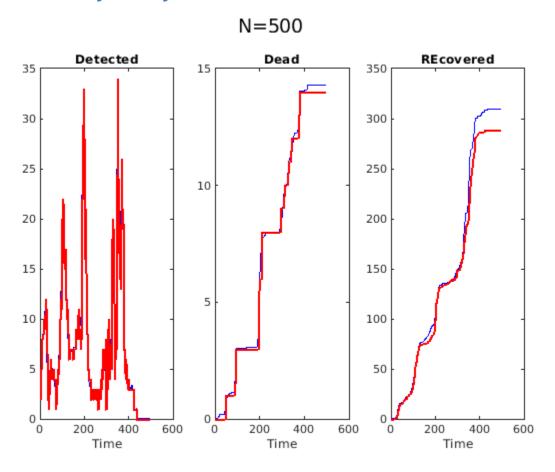
	Rango		Nominal	Mejor	Index
\lambda_{fq}	'0.1743'	'1'	'0.5882'	'0.5733'	'0.0507'
\vartheta_E	'0.0216'	'0.0632'	'0.1211'	'0.0366'	'0.1282'
\gamma_L	'0'	'0.96'	'0.5792'	'0.87'	'0.0767'
k_L	'1'	'10'	'5.5195'	'6.2939'	'0.0407'
\lambda_{qf}	'0'	'0.2868'	'0.2598'	'0.26'	'0.0667'
\delta	'0.0445'	'0.0926'	'0.0499'	'0.0596'	'0.0973'
\eta_L	'0.0461'	'0.4918'	'0.3317'	'0.4457'	'0.0632'
\vartheta_P	'0'	'0'	'0'	'0'	'0.0955'
\gamma_H	'0.02'	'0.951'	'0.4901'	'0.5051'	'0.0372'
Z	'0.4969'	'1.6164'	'14.8426'	'1.1505'	'0.055'
\eta_\vartheta	'0.8284'	'1'	'0.9201'	'0.9489'	'0.1037'
a_L	'3.4721'	'15'	'8.6803'	'12.6564'	'0.055'
b_L	'1.28'	'13.0106'	'6.2394'	'4.7217'	'0.0756'
a_\mu	'4.5287'	'15'	'8.1176'	'7.8962'	'0.0475'
b_\mu	'1'	'15'	'7.9152'	'12.1305'	'0.0429'
\mu	'0'	'1'	'0.4956'	'0.494'	'0.0417'
a_H	'4.4671'	'15'	'8.0846'	'13.2132'	'0.0455'
b_H	'1'	'15'	'7.8438'	'12.1369'	'0.0443'
\nu	'0'	'15.9268'	'250.4'	'7.0786'	'0.0707'
ВР	'489.5116'	'490.835'	'483.6117'	'489.5123'	'0.0532'











Chapter 26. Extension number 26

26.1. Basic information

The extension to be validated consists of the time series from the data501 to the 510. The status of the validation is: COMPLETED.

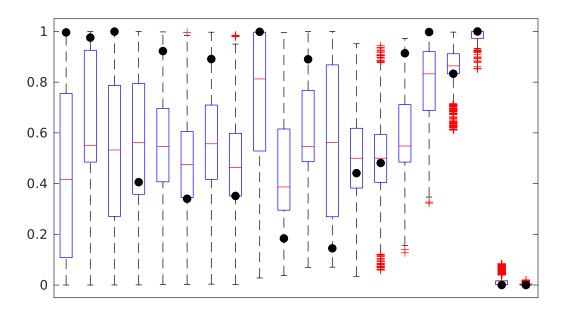
The number of estimations needed to perform the validation was 1000.

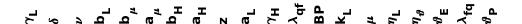
26.2. Estimated parameters with their intervals

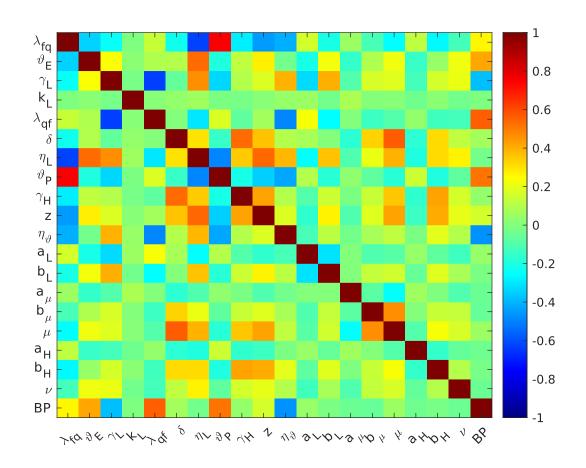
It was necessary to fix 0 parameters of 10 that could be fixed to complete validation.

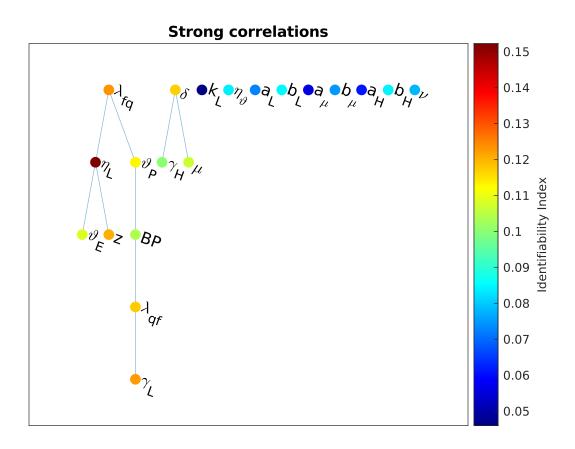
Due to a deviation from the median the CSB method was activated to obtain the

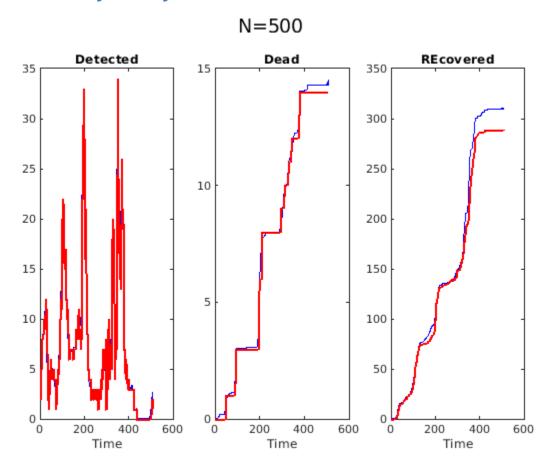
	Rango		Nominal	Mejor	Index
\lambda_{fq}	'0'	'0.0004'	'0.016'	'0.0002'	'0.1233'
\vartheta_E	'0.7183'	'1'	'0.9727'	'0.9998'	'0.1086'
\gamma_L	'0.3634'	'1'	'0.4155'	'0.9962'	'0.1226'
k_L	'1'	'9.55'	'5.5005'	'5.332'	'0.046'
\lambda_{qf}	'0.14'	'0.1804'	'0.5626'	'0.1447'	'0.1176'
\delta	'0'	'0.15'	'0.0826'	'0.1463'	'0.1172'
\eta_L	'0.7742'	'1'	'0.8327'	'0.9975'	'0.1522'
\vartheta_P	'0'	'0'	'0.0037'	'0'	'0.1131'
\gamma_H	'0.02'	'1'	'0.5458'	'0.8902'	'0.1002'
Z	'24.9771'	'30'	'24.3798'	'29.9515'	'0.1203'
\eta_\vartheta	'0.2348'	'1'	'0.8639'	'0.8331'	'0.0839'
a_L	'1'	'13.768'	'6.4148'	'3.5724'	'0.0728'
b_L	'5.4334'	'9.7596'	'8.857'	'6.6801'	'0.0852'
a_\mu	'1.35'	'15'	'7.6465'	'5.763'	'0.056'
b_\mu	'1'	'15'	'8.6411'	'13.9132'	'0.0749'
\mu	'0.0396'	'1'	'0.5482'	'0.9138'	'0.1067'
a_H	'1'	'13.635'	'7.4937'	'5.9191'	'0.0613'
b_H	'1'	'15'	'8.7974'	'13.476'	'0.0842'
\nu	'367.3387'	'500'	'266.3133'	'499.5738'	'0.0782'
ВР	'490.483'	'490.4991'	'491.5'	'490.4991'	'0.104'











Chapter 27. Extension number 27

27.1. Basic information

The extension to be validated consists of the time series from the data510 to the 597. The status of the validation is: COMPLETED.

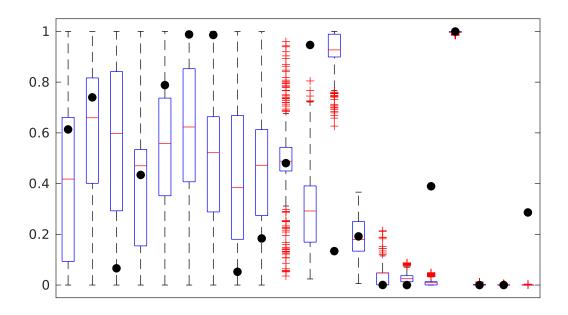
The number of estimations needed to perform the validation was 1000.

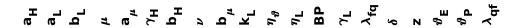
27.2. Estimated parameters with their intervals

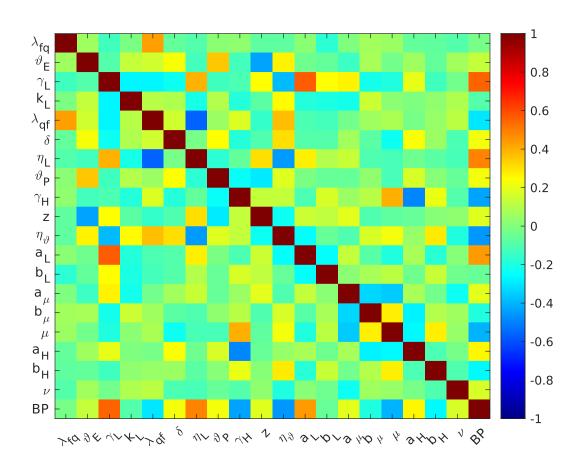
It was necessary to fix 0 parameters of 10 that could be fixed to complete validation.

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

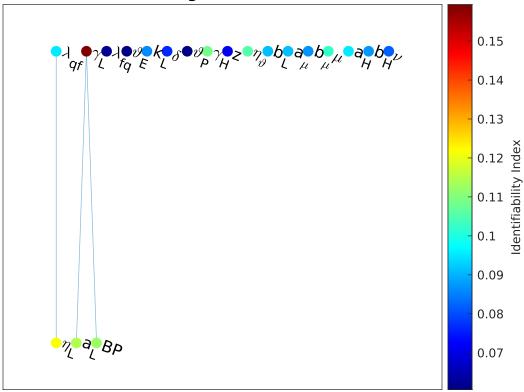
	Rango		Nominal	Mejor	Index
\lambda_{fq}	'0'	'0'	'0.0249'	'0'	'0.0624'
\vartheta_E	'0'	'0'	'0.0022'	'0'	'0.061'
\gamma_L	'0.0001'	'0.0003'	'0.048'	'0.0003'	'0.1594'
k_L	'3.7524'	'5.8425'	'5.3948'	'5.3254'	'0.086'
\lambda_{qf}	'0.0963'	'0.2996'	'0.0006'	'0.2862'	'0.0956'
\delta	'0.0475'	'0.0585'	'0.0014'	'0.0584'	'0.0765'
\eta_L	'0.1087'	'0.3421'	'0.927'	'0.1338'	'0.1217'
\vartheta_P	'0'	'0'	'0.0011'	'0'	'0.0605'
\gamma_H	'0.7651'	'1'	'0.6231'	'0.9881'	'0.1085'
Z	'27.5245'	'30'	'29.911'	'29.9903'	'0.0712'
\eta_\vartheta	'0.8039'	'0.9568'	'0.292'	'0.9466'	'0.1055'
a_L	'5.9464'	'11.9625'	'10.233'	'11.359'	'0.1144'
b_L	'1.8425'	'3.9041'	'9.3559'	'1.9258'	'0.0913'
a_\mu	'7.9073'	'12.5036'	'8.8086'	'12.0387'	'0.0914'
b_\mu	'3.1268'	'7.6968'	'7.6115'	'3.5721'	'0.0869'
\mu	'0.2222'	'0.4495'	'0.4702'	'0.4342'	'0.1024'
a_H	'7.5773'	'9.8468'	'6.8496'	'9.5901'	'0.0955'
b_H	'12.7017'	'15'	'8.3043'	'14.8028'	'0.0874'
\nu	'25.954'	'34.8569'	'191.9318'	'26.1317'	'0.0818'
ВР	'513.5'	'587'	'516.5'	'517.5'	'0.1126'

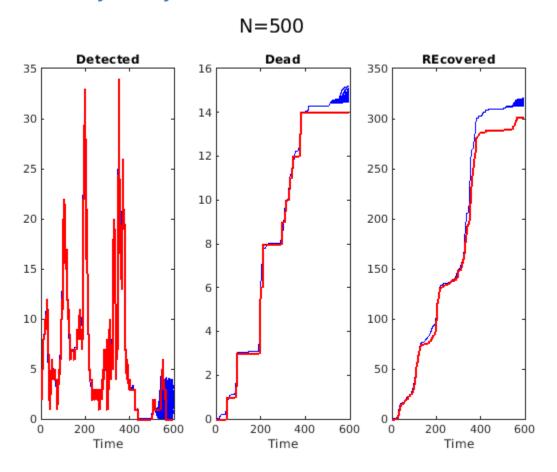






Strong correlations





Chapter 28. Extension number 28

28.1. Basic information

The extension to be validated consists of the time series from the data597 to the 613. The status of the validation is: COMPLETED.

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

28.2. 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}	'0.3355'	'1'	'0.5033'	'0.63'	'0.126'
\vartheta_E	'0.0311'	'0.0417'	'0.0012'	'0.0414'	'0.0605'
\gamma_L	'0.6289'	'1'	'0.6335'	'0.9991'	'0.0705'
k_L	'1'	'10'	'5.5007'	'5.5264'	'0.0453'
\lambda_{qf}	'0.0164'	'0.1624'	'0.4599'	'0.1584'	'0.1034'
\delta	'0'	'0'	'0.0006'	'0'	'0.0622'
\eta_L	'0'	'0.9594'	'0.4982'	'0.4442'	'0.0987'
\vartheta_P	'0'	'0'	'0'	'0'	'0.0504'
\gamma_H	'0.2'	'1'	'0.8451'	'0.9994'	'0.0848'
z	'0'	'27.9394'	'15.5675'	'12.4175'	'0.0871'
\eta_\vartheta	'0.4291'	'1'	'0.8989'	'0.9397'	'0.1287'
a_L	'3.6373'	'4.9397'	'6.7973'	'4.8087'	'0.086'
b_L	'10.0947'	'15'	'6.8199'	'14.9888'	'0.0715'
a_\mu	'1'	'15'	'9.8695'	'13.4634'	'0.0733'
b_\mu	'1'	'15'	'6.1078'	'1.3343'	'0.0773'
\mu	'0'	'0.0129'	'0.385'	'0.0057'	'0.0689'
a_H	'1.28'	'15'	'5.3476'	'14.9966'	'0.0869'
b_H	'1'	'15'	'7.7349'	'6.6058'	'0.0789'
\nu	'51.1163'	'500'	'241.0714'	'440.3772'	'0.0587'
BP	'540.4969'	'546.1807'	'556.935'	'542.4999'	'0.1323'

