Validation process for GUAJIRA

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 87. The status of the validation is: COMPLETED.

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

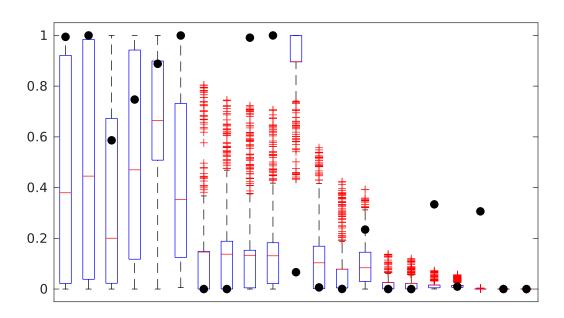
1.2. Estimated parameters with their intervals

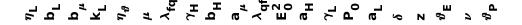
It was necessary to fix 0 parameters of 11 that could be fixed to complete validation.

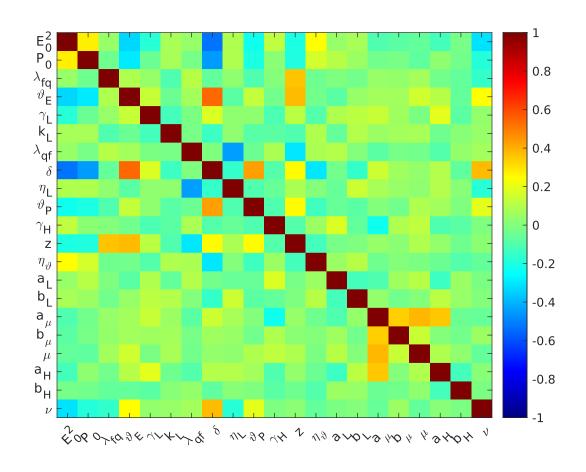
Due to a deviation from the median the CSB method was activated to obtain the

parameter intervals.

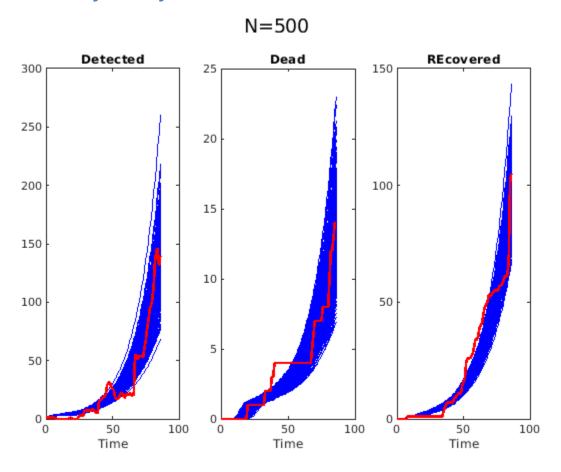
	Rar	ngo	Nominal	Mejor	Index
E^2_0	'11.5234'	'14.5623'	'207.662'	'12.8875'	'0.1092'
P_0	'0'	'0'	'10.194'	'0'	'0.0848'
\lambda_{fq}	'0'	'0'	'0.1481'	'0'	'0.0925'
\vartheta_E	'0.2098'	'0.3365'	'0.0007'	'0.3063'	'0.0847'
\gamma_L	'0.2038'	'0.2379'	'0.0843'	'0.2345'	'0.0688'
k_L	'1.36'	'10'	'5.2301'	'7.7246'	'0.0841'
\lambda_{qf}	'0.0035'	'0.1419'	'0.8956'	'0.0664'	'0.0869'
\delta	'0.0359'	'0.054'	'0.0024'	'0.0501'	'0.1224'
\eta_L	'0.4193'	'1'	'0.3796'	'0.9943'	'0.0911'
\vartheta_P	'0'	'0'	'0'	'0'	'0.062'
\gamma_H	'0'	'0'	'0.1376'	'0'	'0.086'
Z	'0.2762'	'0.3018'	'0.4302'	'0.2895'	'0.0771'
\eta_\vartheta	'0.2741'	'0.9212'	'0.6639'	'0.8881'	'0.0746'
a_L	'1'	'1.1144'	'1.3168'	'1'	'0.0698'
b_L	'12.7533'	'15'	'7.2336'	'14.9998'	'0.0865'
a_\mu	'9.5812'	'15'	'2.8382'	'14.9977'	'0.0892'
b_\mu	'5.0449'	'10.7421'	'3.8058'	'9.2098'	'0.0804'
\mu	'0.2227'	'1'	'0.3525'	'0.9997'	'0.0826'
a_H	'1'	'15'	'2.095'	'1.006'	'0.0868'
b_H	'1'	'15'	'2.8669'	'14.8746'	'0.0785'
\nu	'0'	'0.0015'	'0.0679'	'0.0007'	'0.0657'







| 0.12 | 0.11 | 0.11 | 0.09 | 0.08 | 0.07



Chapter 2. Extension number 2

2.1. Basic information

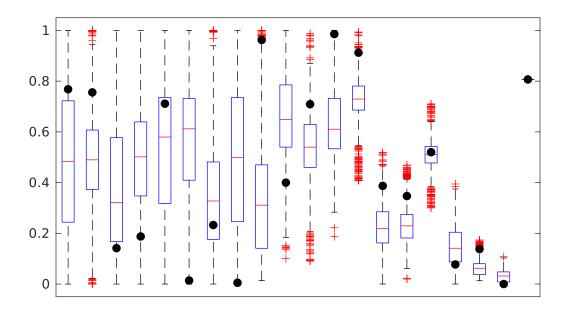
The extension to be validated consists of the time series from the data87 to the 107. The status of the validation is: COMPLETED.

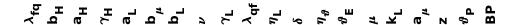
The number of estimations needed to perform the validation was 1000.

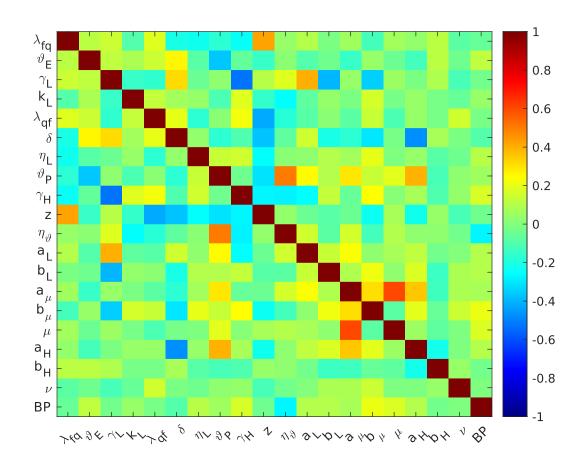
2.2. Estimated parameters with their intervals

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

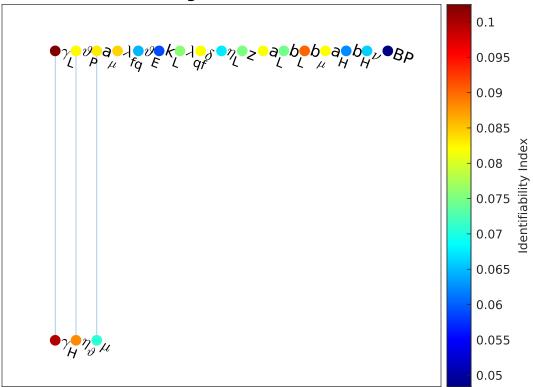
	Rar	ngo	Nominal	Mejor	Index
\lambda_{fq}	'0.455'	'0.5126'	'0.4838'	'0.768'	'0.0844'
\vartheta_E	'0.206'	'0.2322'	'0.2191'	'0.3871'	'0.0648'
\gamma_L	'0.2869'	'0.3353'	'0.3111'	'0.9623'	'0.1025'
k_L	'5.4736'	'5.7093'	'5.5915'	'5.6795'	'0.0591'
\lambda_{qf}	'0.6289'	'0.6688'	'0.6489'	'0.3997'	'0.076'
\delta	'0.0891'	'0.094'	'0.0916'	'0.1478'	'0.0821'
\eta_L	'0.5197'	'0.5597'	'0.5397'	'0.709'	'0.0675'
\vartheta_P	'0.0295'	'0.034'	'0.0317'	'0.0001'	'0.0824'
\gamma_H	'0.4785'	'0.5243'	'0.5014'	'0.1875'	'0.0996'
Z	'1.6263'	'2.1108'	'1.8686'	'4.1385'	'0.0752'
\eta_\vartheta	'0.71'	'0.7486'	'0.7293'	'0.9122'	'0.0883'
a_L	'8.7319'	'9.4969'	'9.1144'	'10.9558'	'0.0818'
b_L	'5.2678'	'5.9041'	'5.586'	'4.2585'	'0.0746'
a_\mu	'2.859'	'3.0943'	'2.9767'	'2.0804'	'0.0832'
b_\mu	'9.2223'	'9.9142'	'9.5683'	'1.1961'	'0.0904'
\mu	'0.2179'	'0.2409'	'0.2294'	'0.3469'	'0.0709'
a_H	'5.174'	'5.8246'	'5.4993'	'2.9816'	'0.082'
b_H	'7.5893'	'8.1229'	'7.8561'	'11.58'	'0.0625'
\nu	'235.7418'	'263.7766'	'249.7592'	'2.5304'	'0.0659'
ВР	'86.3529'	'86.6471'	'86.5'	'86.5'	'0.0484'

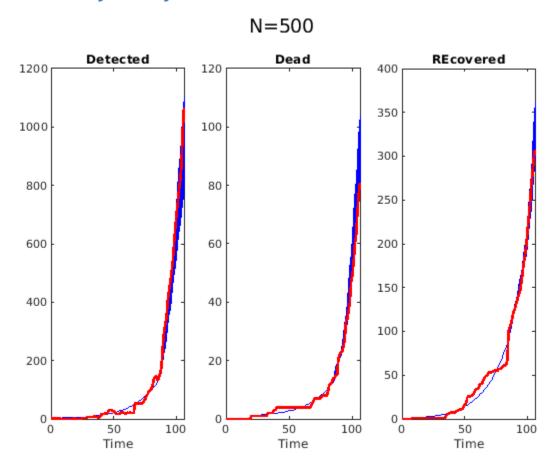






Strong correlations





Chapter 3. Extension number 3

3.1. Basic information

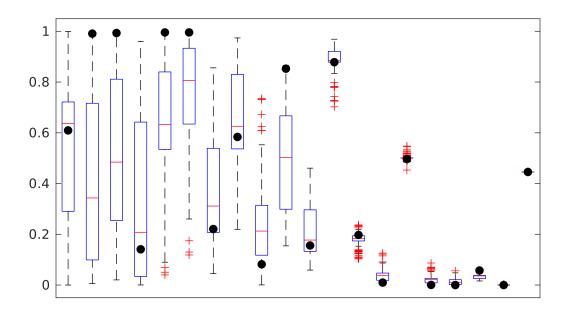
The extension to be validated consists of the time series from the data107 to the 133. The status of the validation is: COMPLETED.

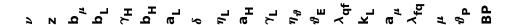
The number of estimations needed to perform the validation was 1000.

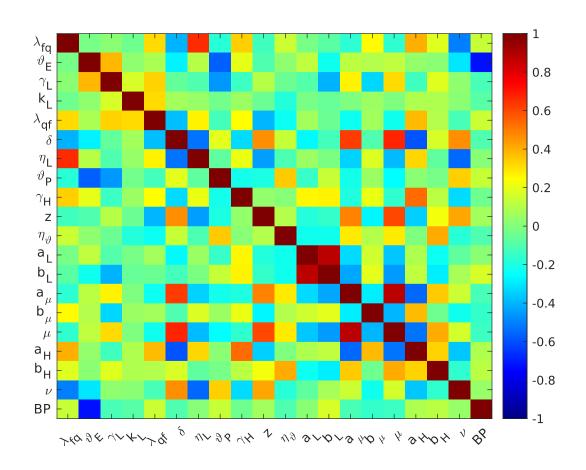
3.2. Estimated parameters with their intervals

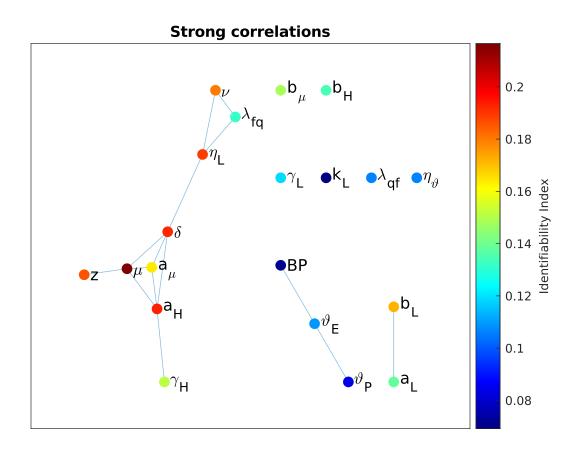
It was necessary to fix 0 parameters of 10 that could be fixed to complete validation.

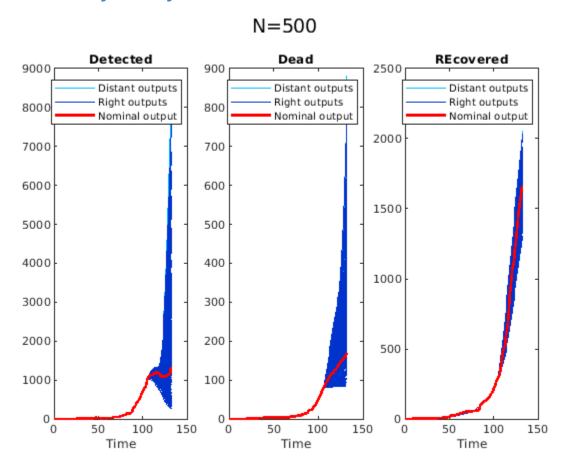
	Rar	ngo	Nominal	Mejor	Index
\lambda_{fq}	'0'	'0.0609'	'0.0112'	'0'	'0.1325'
\vartheta_E	'0.169'	'0.1986'	'0.1838'	'0.1974'	'0.1091'
\gamma_L	'0.1291'	'0.2256'	'0.1774'	'0.156'	'0.1191'
k_L	'5.2561'	'5.7439'	'5.5'	'5.4672'	'0.0692'
\lambda_{qf}	'0.0076'	'0.069'	'0.0383'	'0.0097'	'0.1064'
\delta	'0.0874'	'0.1003'	'0.0939'	'0.0876'	'0.1922'
\eta_L	'0.1415'	'0.2839'	'0.2127'	'0.0818'	'0.1892'
\vartheta_P	'0'	'0.0011'	'0.0004'	'0'	'0.0841'
\gamma_H	'0.5673'	'0.6975'	'0.6324'	'0.9955'	'0.151'
Z	'7.6279'	'12.9684'	'10.2981'	'29.7261'	'0.186'
\eta_\vartheta	'0.8426'	'0.9267'	'0.8846'	'0.8782'	'0.1061'
a_L	'4.5679'	'6.1495'	'5.3587'	'4.0898'	'0.1384'
b_L	'2.7774'	'5.0446'	'3.911'	'2.9731'	'0.1722'
a_\mu	'1'	'1.7399'	'1.2988'	'1.0074'	'0.164'
b_\mu	'6.6769'	'8.891'	'7.7839'	'14.9053'	'0.1481'
\mu	'0'	'0.1203'	'0.036'	'0.0573'	'0.2165'
a_H	'7.3062'	'8.7543'	'8.0303'	'12.9382'	'0.1931'
b_H	'11.3513'	'13.2009'	'12.2761'	'14.9379'	'0.1346'
\nu	'281.0819'	'354.9398'	'318.0108'	'304.7286'	'0.1799'
BP	'107.3847'	'107.6153'	'107.5'	'107.5'	'0.0711'











Chapter 4. Extension number4

4.1. Basic information

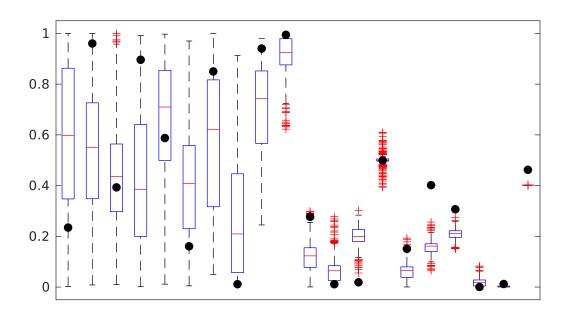
The extension to be validated consists of the time series from the data133 to the 173. The status of the validation is: COMPLETED.

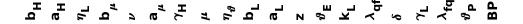
The number of estimations needed to perform the validation was 1000.

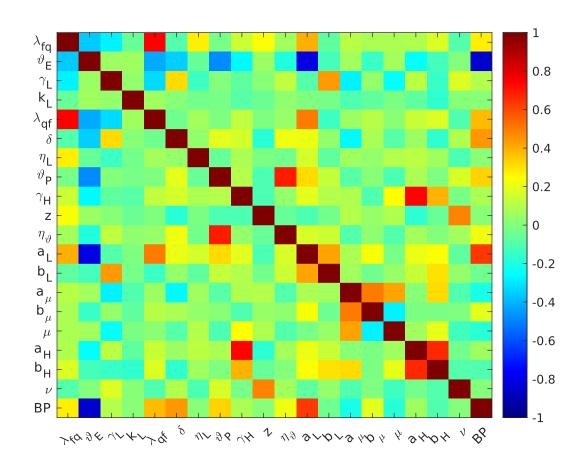
4.2. Estimated parameters with their intervals

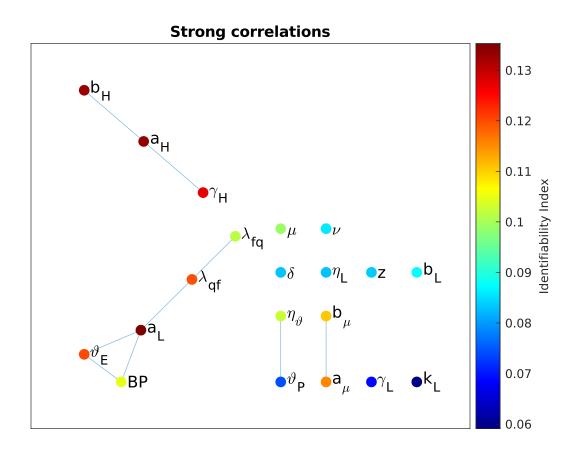
It was necessary to fix 0 parameters of 10 that could be fixed to complete validation.

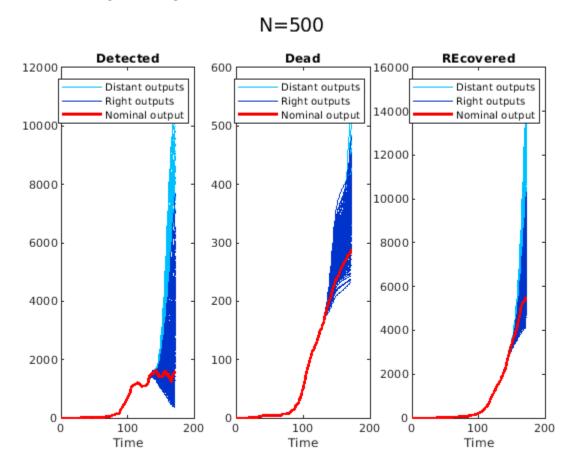
	Rar	ngo	Nominal	Mejor	Index
\lambda_{fq}	'0'	'0.0375'	'0.0171'	'0.0003'	'0.1015'
\vartheta_E	'0.1874'	'0.2103'	'0.1989'	'0.0189'	'0.12'
\gamma_L	'0.2039'	'0.2178'	'0.2109'	'0.3066'	'0.069'
k_L	'5.2897'	'5.7105'	'5.5001'	'5.49'	'0.0591'
\lambda_{qf}	'0.0391'	'0.0927'	'0.0659'	'0.1508'	'0.1197'
\delta	'0.0211'	'0.0273'	'0.0242'	'0.0603'	'0.0831'
\eta_L	'0.3966'	'0.4757'	'0.4362'	'0.393'	'0.0831'
\vartheta_P	'0.0009'	'0.002'	'0.0015'	'0.012'	'0.0743'
\gamma_H	'0.5701'	'0.6723'	'0.6212'	'0.8501'	'0.1273'
Z	'0.8644'	'2.9858'	'1.9251'	'0.3362'	'0.0838'
\eta_\vartheta	'0.7085'	'0.7797'	'0.7441'	'0.9403'	'0.1024'
a_L	'2.5516'	'2.8918'	'2.7217'	'4.8763'	'0.1353'
b_L	'13.4756'	'14.4077'	'13.9417'	'14.9213'	'0.0878'
a_\mu	'6.1322'	'7.2801'	'6.7061'	'3.2479'	'0.1155'
b_\mu	'5.7042'	'7.0642'	'6.3842'	'13.5443'	'0.1108'
\mu	'0.1663'	'0.2525'	'0.2094'	'0.0113'	'0.099'
a_H	'8.057'	'9.3318'	'8.6944'	'14.4442'	'0.1337'
b_H	'8.6241'	'10.1078'	'9.366'	'4.284'	'0.1329'
\nu	'335.4318'	'374.3575'	'354.8947'	'293.742'	'0.086'
ВР	'133.2799'	'133.7201'	'133.5'	'137.4999'	'0.1047'











Chapter 5. Extension number 5

5.1. Basic information

The extension to be validated consists of the time series from the data173 to the 196. The status of the validation is: COMPLETED.

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

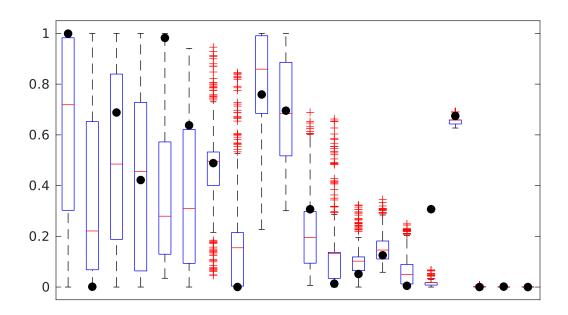
5.2. Estimated parameters with their intervals

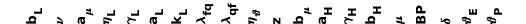
It was necessary to fix 0 parameters of 10 that could be fixed to complete validation.

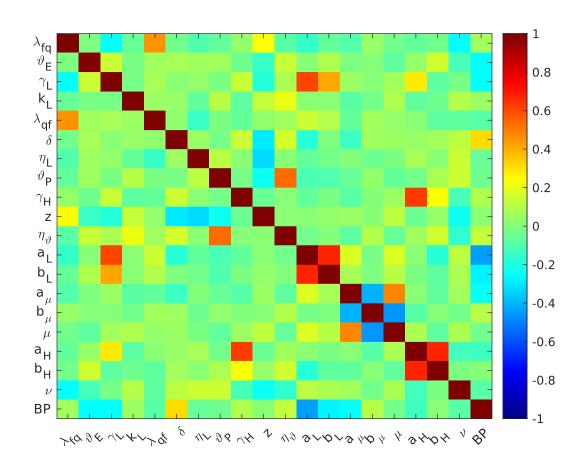
Due to a deviation from the median the CSB method was activated to obtain the

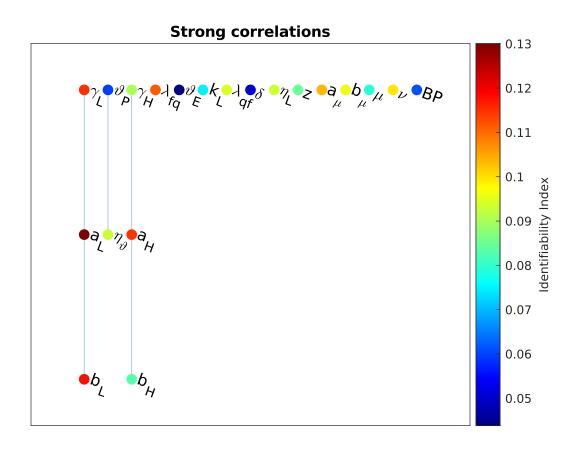
parameter intervals.

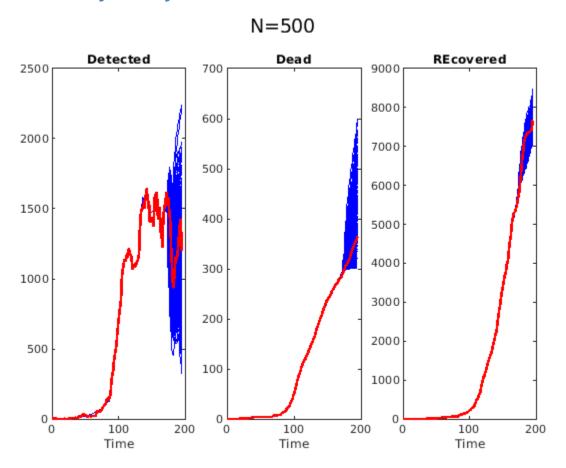
parameter interva	Rar	าตด	Nominal	Mejor	Index
Manahala (fai)					
\lambda_{fq}	'0'	'0.0007'	'0.1554'	'0.0003'	'0.1118'
\vartheta_E	'0.0011'	'0.0019'	'0.0002'	'0.0017'	'0.0438'
\gamma_L	'0.1929'	'1'	'0.2794'	'0.9822'	'0.115'
k_L	'1'	'10'	'5.4647'	'5.3979'	'0.075'
\lambda_{qf}	'0'	'1'	'0.8576'	'0.7592'	'0.0945'
\delta	'0'	'0'	'0.0002'	'0'	'0.0508'
\eta_L	'0'	'0.9492'	'0.4558'	'0.4219'	'0.0935'
\vartheta_P	'0'	'0'	'0'	'0'	'0.06'
\gamma_H	'0.1051'	'0.3662'	'0.146'	'0.1253'	'0.0901'
Z	'5.9208'	'29.0131'	'5.8502'	'9.205'	'0.0849'
\eta_\vartheta	'0.6381'	'1'	'0.6847'	'0.6954'	'0.0931'
a_L	'4.9439'	'11.9974'	'5.334'	'9.9283'	'0.13'
b_L	'4.4262'	'15'	'11.0633'	'14.9884'	'0.1178'
a_\mu	'8.4311'	'15'	'7.7884'	'10.6337'	'0.1037'
b_\mu	'1'	'3.4709'	'2.8523'	'1.1863'	'0.0964'
\mu	'0'	'0.4724'	'0.0174'	'0.307'	'0.0795'
a_H	'1.7049'	'3.7636'	'2.4391'	'1.7211'	'0.1148'
b_H	'1.0257'	'2.0292'	'1.6948'	'1.0683'	'0.0832'
\nu	'0'	'1.4913'	'110.5595'	'0.6628'	'0.0995'
BP	'173.1528'	'177.3827'	'174.4999'	'175.4904'	'0.0611'











Chapter 6. Extension number 6

6.1. Basic information

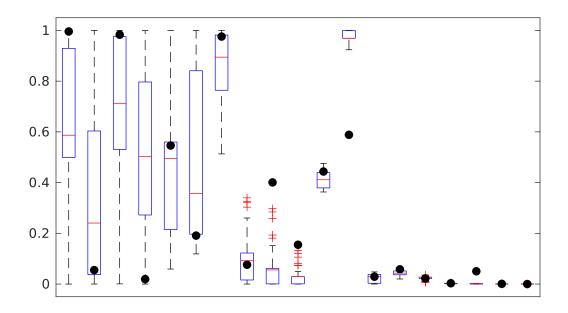
The extension to be validated consists of the time series from the data196 to the 235. The status of the validation is: COMPLETED.

The number of estimations needed to perform the validation was 10000.

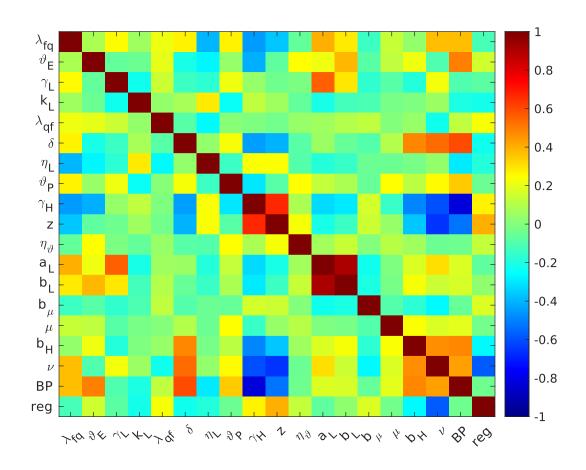
6.2. Estimated parameters with their intervals

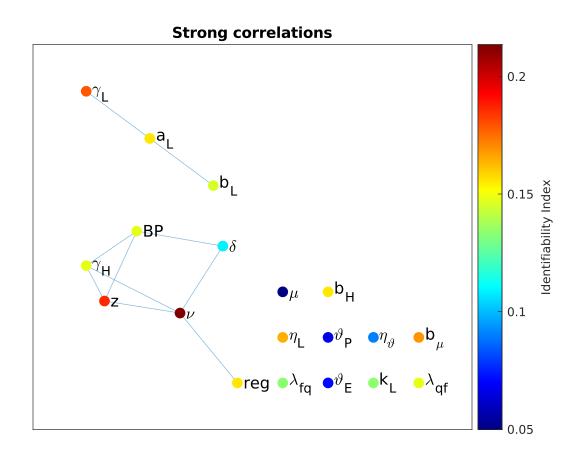
It was necessary to fix 2 parameters of 11 that could be fixed to complete validation.

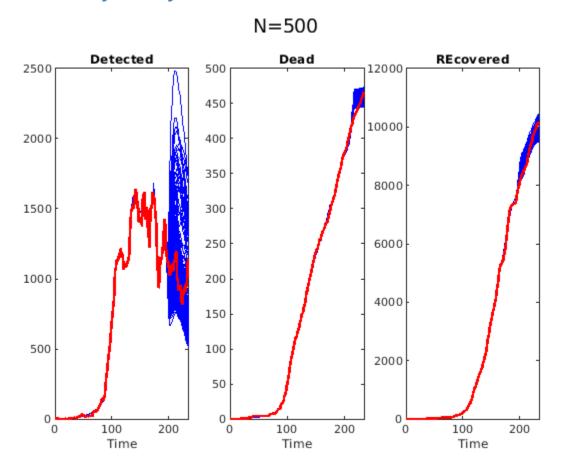
it was necessary to	Rar		Nominal	Mejor	Index
\lambda_{fq}	'0'	'0.1023'	'0.0016'	'0.0504'	'0.1336'
\vartheta_E	'0.0014'	'0.0028'	'0.0021'	'0.0032'	'0.0716'
\gamma_L	'0.2568'	'0.4573'	'0.357'	'0.191'	'0.1789'
k_L	'4.7317'	'6.1657'	'5.4487'	'5.9156'	'0.1338'
\lambda_{qf}	'0.4909'	'0.6827'	'0.5868'	'0.9958'	'0.1477'
\delta	'0.006'	'0.0069'	'0.0064'	'0.0087'	'0.1091'
\eta_L	'0.4042'	'0.6004'	'0.5023'	'0.0194'	'0.1647'
\vartheta_P	'0'	'0'	'0'	'0'	'0.0662'
\gamma_H	'0.0237'	'0.0343'	'0.029'	'0.029'	'0.1483'
Z	'26.4302'	'30'	'29.0712'	'17.6509'	'0.1866'
\eta_\vartheta	'0.8532'	'0.936'	'0.8946'	'0.9758'	'0.0907'
a_L	'1.6355'	'2.9455'	'2.2905'	'2.0654'	'0.1557'
b_L	'1'	'2.591'	'1.4081'	'3.1691'	'0.1452'
a_\mu	'6.5518'	'6.5518'	'6.5518'	'6.5518'	'0'
b_\mu	'2.7901'	'5.9451'	'4.3676'	'1.7693'	'0.1688'
\mu	'0'	'0.0003'	'0'	'0.0008'	'0.0499'
a_H	'3.2202'	'3.2202'	'3.2202'	'3.2202'	'0'
b_H	'1'	'3.1362'	'1.7801'	'6.6097'	'0.1556'
\nu	'0'	'62.9834'	'13.5606'	'11.1947'	'0.2135'
ВР	'197.8975'	'199.0936'	'198.4956'	'200.5'	'0.1471'
reg	'0.1592'	'0.1963'	'0.1778'	'0.2458'	'0.1558'











Chapter 7. Extension number 7

7.1. Basic information

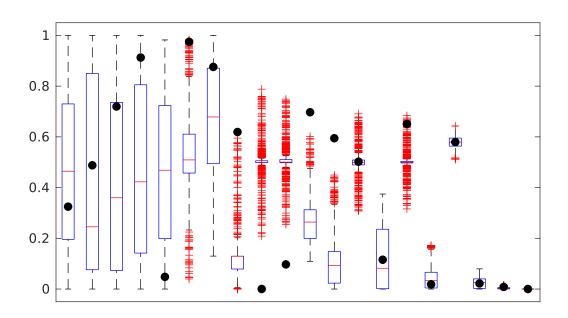
The extension to be validated consists of the time series from the data235 to the 259. The status of the validation is: COMPLETED.

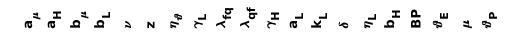
The number of estimations needed to perform the validation was 1000.

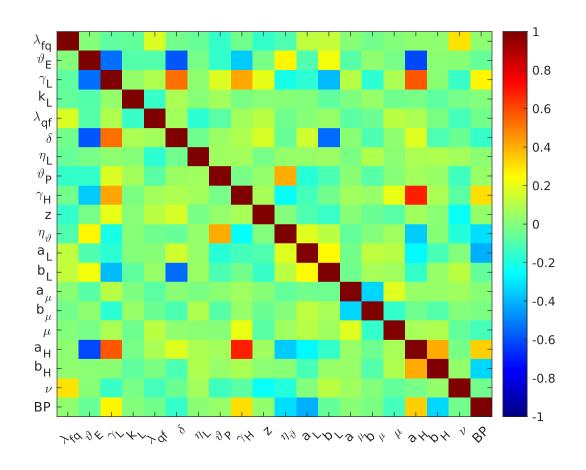
7.2. Estimated parameters with their intervals

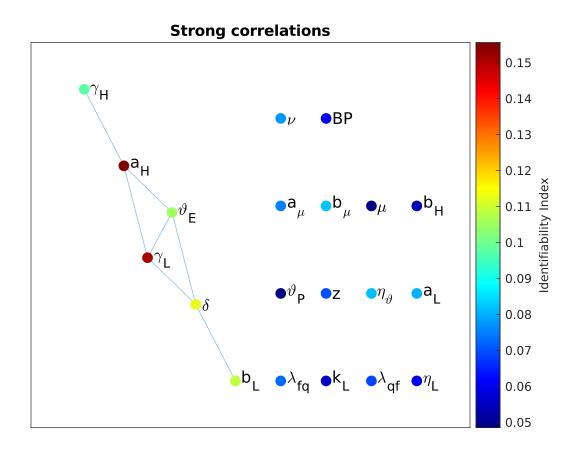
It was necessary to fix 0 parameters of 10 that could be fixed to complete validation.

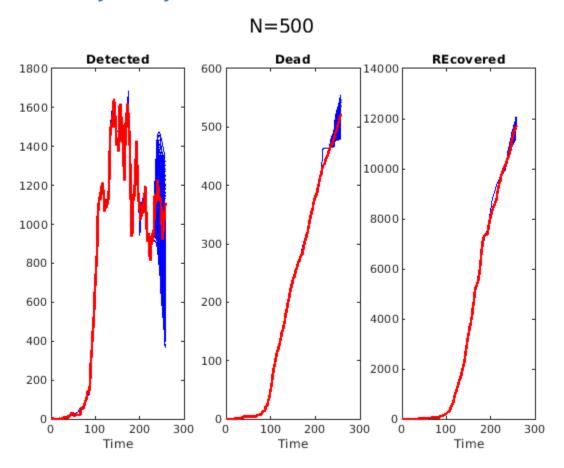
Te was necessary to	Rango		Nominal	Mejor	Index
\lambda_{fq}	'0.47'	'0.5273'	'0.4986'	'0.0002'	'0.0725'
\vartheta_E	'0.0236'	'0.0278'	'0.0257'	'0.0221'	'0.105'
\gamma_L	'0.0939'	'0.165'	'0.1294'	'0.6192'	'0.1506'
k_L	'5.3107'	'5.6836'	'5.4971'	'5.5191'	'0.0555'
\lambda_{qf}	'0.4757'	'0.5253'	'0.5005'	'0.0971'	'0.0693'
\delta	'0.0104'	'0.0142'	'0.0123'	'0.0173'	'0.1126'
\eta_L	'0.4771'	'0.5227'	'0.4999'	'0.6507'	'0.0599'
\vartheta_P	'0'	'0.0001'	'0'	'0.0002'	'0.0485'
\gamma_H	'0.2407'	'0.2873'	'0.264'	'0.6972'	'0.098'
z	'14.501'	'16.0475'	'15.2742'	'29.2445'	'0.0699'
\eta_\vartheta	'0.6548'	'0.7021'	'0.6784'	'0.8758'	'0.0816'
a_L	'1.9577'	'2.639'	'2.2983'	'9.3246'	'0.0803'
b_L	'6.3791'	'7.4564'	'6.9178'	'13.7781'	'0.1085'
a_\mu	'7.0159'	'7.9923'	'7.5041'	'5.5481'	'0.075'
b_\mu	'5.4979'	'6.577'	'6.0374'	'11.0748'	'0.0823'
\mu	'0'	'0.0104'	'0.003'	'0.0083'	'0.0492'
a_H	'3.8462'	'5.025'	'4.4356'	'7.831'	'0.1556'
b_H	'1.3366'	'1.5935'	'1.465'	'1.2636'	'0.0548'
\nu	'218.1729'	'250.4536'	'234.3132'	'24.0399'	'0.0778'
ВР	'232.2914'	'232.7086'	'232.5'	'232.5'	'0.0602'











Chapter 8. Extension number 8

8.1. Basic information

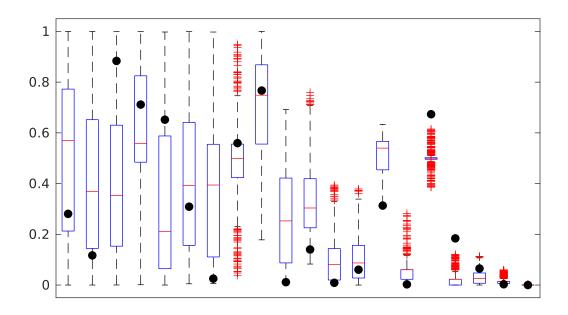
The extension to be validated consists of the time series from the data259 to the 310. The status of the validation is: COMPLETED.

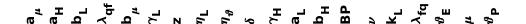
The number of estimations needed to perform the validation was 1000.

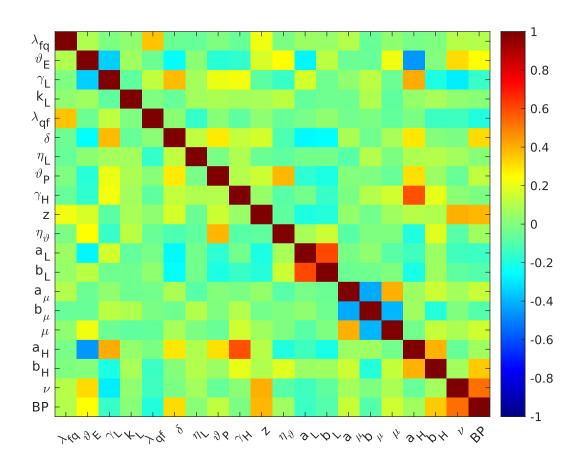
8.2. Estimated parameters with their intervals

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

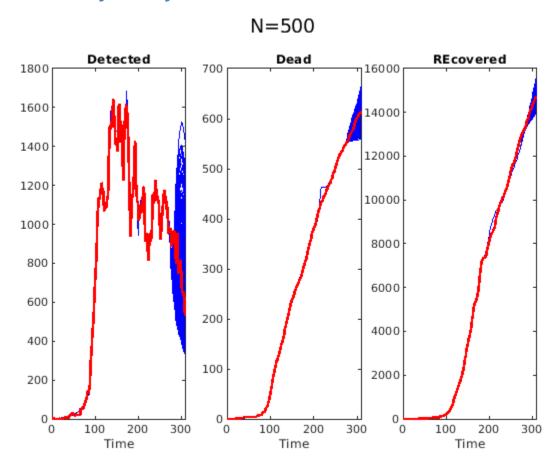
	Rar	ngo	Nominal	Mejor	Index
\lambda_{fq}	'0'	'0.059'	'0.0228'	'0.1841'	'0.0715'
\vartheta_E	'0.0211'	'0.0294'	'0.0253'	'0.0652'	'0.0701'
\gamma_L	'0.3585'	'0.4255'	'0.392'	'0.3089'	'0.0967'
k_L	'5.3376'	'5.6618'	'5.4997'	'7.0618'	'0.056'
\lambda_{qf}	'0.5276'	'0.5875'	'0.5575'	'0.7116'	'0.0733'
\delta	'0.0347'	'0.0412'	'0.0379'	'0.0017'	'0.0826'
\eta_L	'0.4714'	'0.5271'	'0.4993'	'0.5595'	'0.0677'
\vartheta_P	'0.0002'	'0.0008'	'0.0005'	'0'	'0.0549'
\gamma_H	'0.2818'	'0.3259'	'0.3039'	'0.1401'	'0.0878'
z	'10.9013'	'12.7624'	'11.8319'	'0.7599'	'0.0872'
\eta_\vartheta	'0.724'	'0.773'	'0.7485'	'0.7668'	'0.0755'
a_L	'1.8364'	'2.4301'	'2.1333'	'1.1243'	'0.0898'
b_L	'5.4417'	'6.4588'	'5.9503'	'13.3719'	'0.1028'
a_\mu	'8.459'	'9.5104'	'8.9847'	'4.9302'	'0.0851'
b_\mu	'3.45'	'4.4664'	'3.9582'	'10.1276'	'0.0836'
\mu	'0'	'0.0299'	'0.0136'	'0.0031'	'0.0653'
a_H	'5.6546'	'6.6757'	'6.1651'	'2.6366'	'0.1173'
b_H	'2.031'	'2.4103'	'2.2206'	'1.8489'	'0.0688'
\nu	'13.46'	'47.2129'	'30.3365'	'1.3864'	'0.1023'
BP	'274.7063'	'276.2566'	'275.4815'	'258.5'	'0.0869'







0.06



Chapter 9. Extension number 9

9.1. Basic information

The extension to be validated consists of the time series from the data310 to the 350. The status of the validation is: COMPLETED.

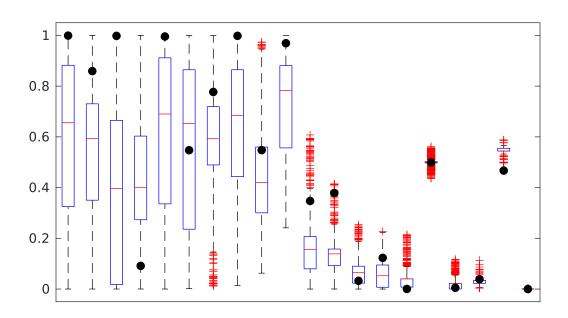
The number of estimations needed to perform the validation was 1000.

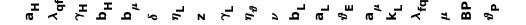
9.2. Estimated parameters with their intervals

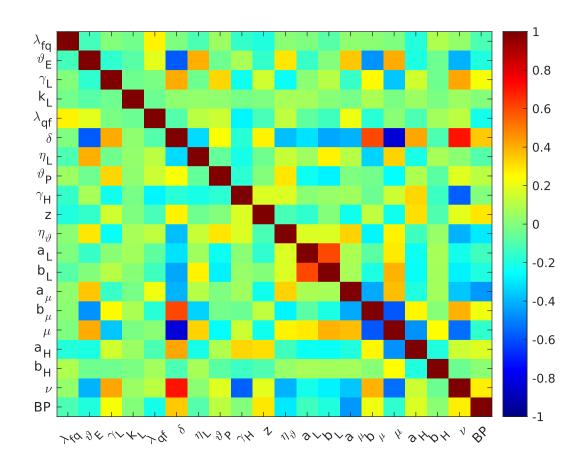
It was necessary to fix 0 parameters of 10 that could be fixed to complete validation.

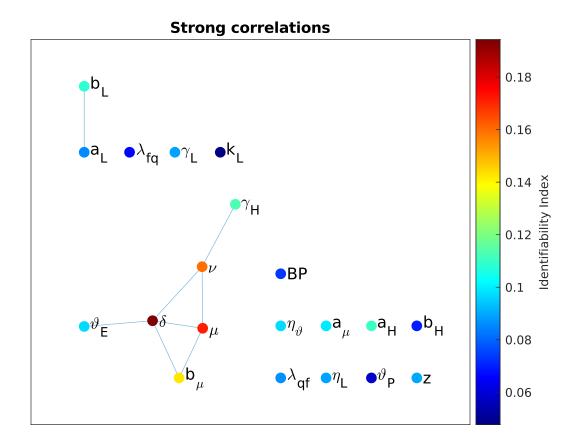
Due to a deviation from the median the CSB method was activated to obtain the

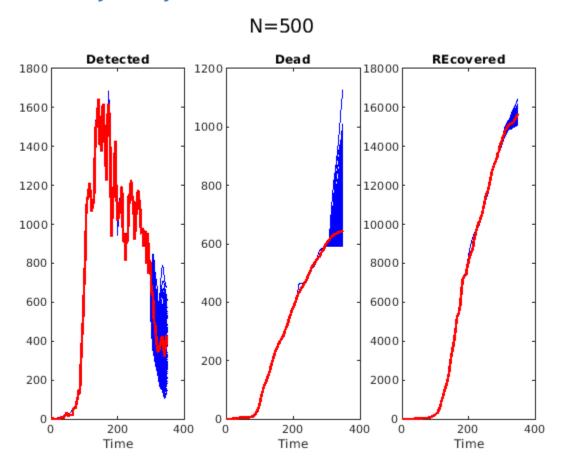
parameter interva	Rango		Nominal	Mejor	Index
Name hala (far)				_	
\lambda_{fq}	'0'	'0.0107'	'0.0225'	'0.0049'	'0.0666'
\vartheta_E	'0.0363'	'0.1683'	'0.0525'	'0.123'	'0.097'
\gamma_L	'0.3984'	'1'	'0.4198'	'0.5477'	'0.0894'
k_L	'1'	'10'	'5.4968'	'5.4935'	'0.0477'
\lambda_{qf}	'0.1279'	'1'	'0.5939'	'0.8593'	'0.0861'
\delta	'0.0668'	'0.129'	'0.098'	'0.0821'	'0.1943'
\eta_L	'0.2974'	'1'	'0.5927'	'0.7771'	'0.0893'
\vartheta_P	'0'	'0'	'0.0005'	'0'	'0.0578'
\gamma_H	'0.1'	'1'	'0.3958'	'0.9982'	'0.1133'
Z	'15.7549'	'30'	'20.5418'	'29.9481'	'0.0897'
\eta_\vartheta	'0.4829'	'0.9741'	'0.7828'	'0.9694'	'0.0971'
a_L	'1.2687'	'4.8746'	'1.9033'	'1.4541'	'0.0861'
b_L	'2.771'	'10.6561'	'2.9406'	'6.3001'	'0.109'
a_\mu	'1'	'15'	'1.5648'	'1.0066'	'0.0998'
b_\mu	'1'	'15'	'10.6618'	'14.9403'	'0.1425'
\mu	'0'	'0.0875'	'0.0337'	'0.0389'	'0.1711'
a_H	'8.4989'	'15'	'10.1808'	'14.9905'	'0.1108'
b_H	'1'	'8.56'	'6.5943'	'2.28'	'0.0697'
\nu	'125.9371'	'175.7351'	'77.8797'	'173.5571'	'0.1595'
ВР	'298.983'	'321.3158'	'308.5'	'301.5'	'0.0738'











Chapter 10. Extension number 10

10.1. Basic information

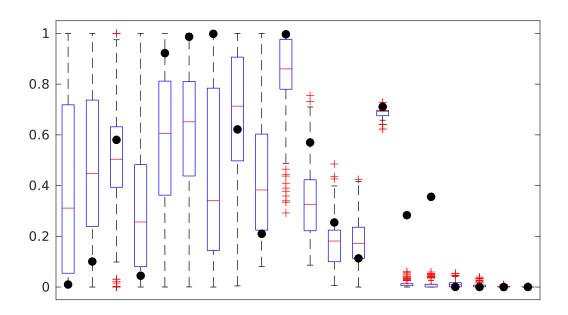
The extension to be validated consists of the time series from the data350 to the 367. The status of the validation is: COMPLETED.

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

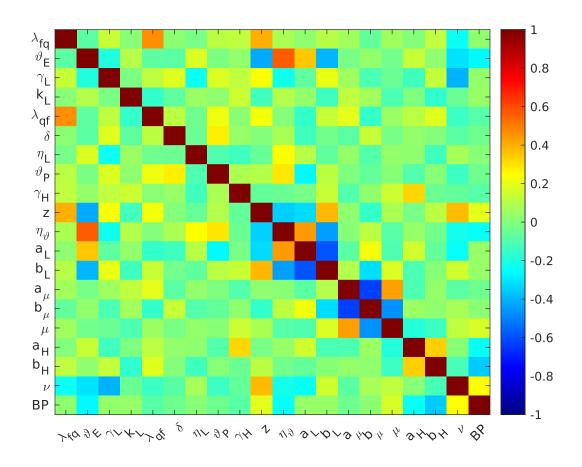
10.2. Estimated parameters with their intervals

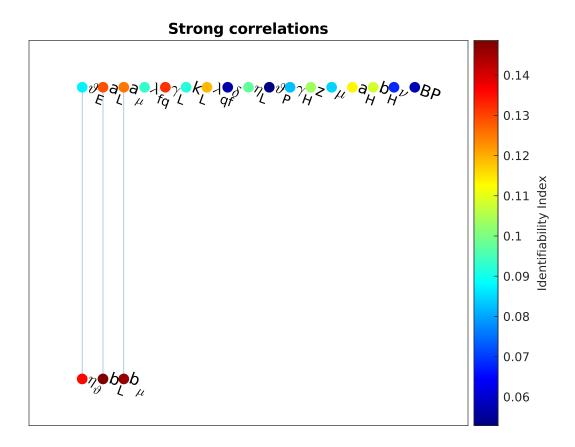
It was necessary to fix 0 parameters of 10 that could be fixed to complete validation.

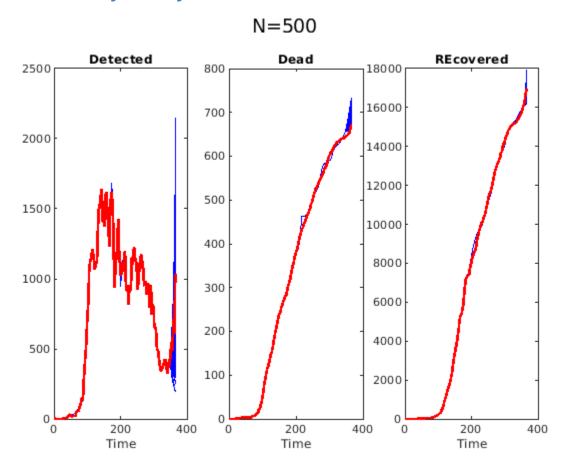
	Rar	ngo	Nominal	Mejor	Index
\lambda_{fq}	'0'	'0.0835'	'0.0111'	'0.3556'	'0.0935'
\vartheta_E	'0'	'0.018'	'0.0073'	'0.0001'	'0.0874'
\gamma_L	'0.2685'	'0.4121'	'0.3403'	'0.9983'	'0.132'
k_L	'5.0977'	'5.9725'	'5.5351'	'6.2232'	'0.0921'
\lambda_{qf}	'0.6516'	'0.7749'	'0.7132'	'0.6215'	'0.1193'
\delta	'0'	'0.0041'	'0.0016'	'0.0001'	'0.0569'
\eta_L	'0.5998'	'0.7033'	'0.6516'	'0.9867'	'0.0975'
\vartheta_P	'0'	'0.0026'	'0.0005'	'0.0002'	'0.0528'
\gamma_H	'0.1377'	'0.2101'	'0.1739'	'0.113'	'0.0826'
Z	'8.7992'	'10.785'	'9.7921'	'17.1014'	'0.1036'
\eta_\vartheta	'0.3297'	'0.436'	'0.3828'	'0.2099'	'0.1357'
a_L	'2.8592'	'4.2308'	'3.545'	'4.5649'	'0.1288'
b_L	'12.0876'	'13.9297'	'13.0087'	'14.9522'	'0.1486'
a_\mu	'8.6259'	'10.3225'	'9.4742'	'13.9116'	'0.1253'
b_\mu	'4.3294'	'6.3863'	'5.3578'	'1.1396'	'0.1461'
\mu	'0'	'0.0577'	'0.0133'	'0.2833'	'0.0846'
a_H	'6.3987'	'8.1178'	'7.2582'	'2.4082'	'0.1131'
b_H	'3.7758'	'5.4089'	'4.5923'	'1.625'	'0.1085'
\nu	'0'	'4.8473'	'1.1016'	'0.007'	'0.0684'
BP	'349.215'	'349.785'	'349.5'	'350.5'	'0.0575'











Chapter 11. Extension number 11

11.1. Basic information

The extension to be validated consists of the time series from the data367 to the 389. The status of the validation is: COMPLETED.

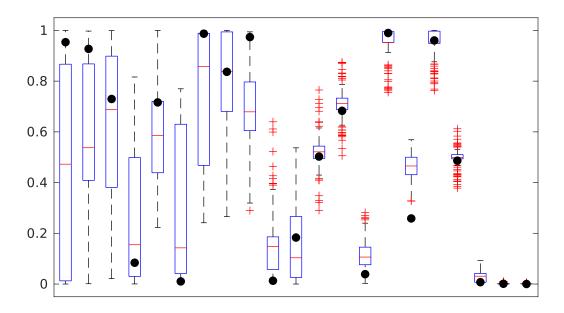
The number of estimations needed to perform the validation was 1000.

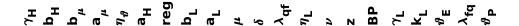
11.2. Estimated parameters with their intervals

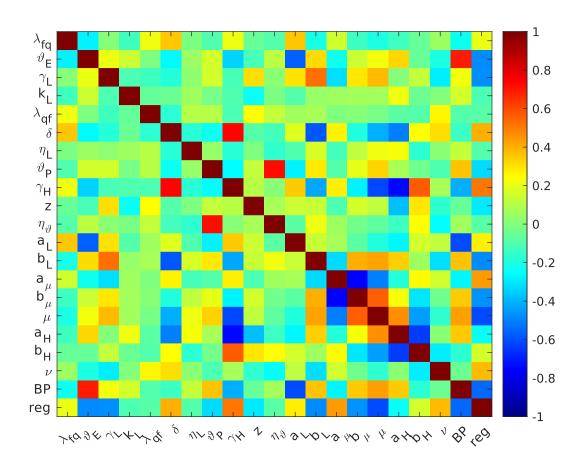
It was necessary to fix 0 parameters of 11 that could be fixed to complete validation.

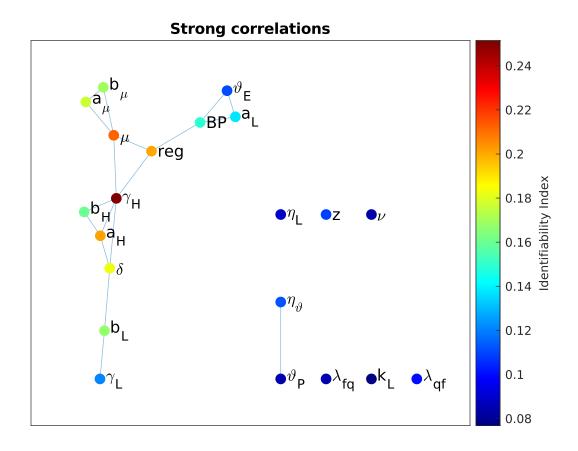
Due to a deviation from the median the CSB method was activated to obtain the

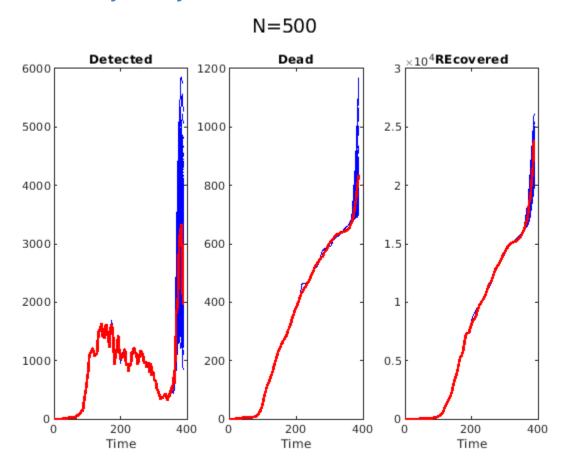
parameter interva		ngo	Nominal	Mejor	Index
\lambda_{fq}	'0.0001'	'0.0025'	'0.0023'	'0.0011'	'0.0853'
\vartheta_E	'0.0053'	'0.0156'	'0.031'	'0.0074'	'0.1115'
\gamma_L	'0.2671'	'0.9634'	'0.9541'	'0.9605'	'0.1216'
k_L	'1.2138'	'9.1332'	'5.4953'	'5.3772'	'0.0768'
\lambda_{qf}	'0.1427'	'0.9298'	'0.5212'	'0.5026'	'0.1004'
\delta	'0.0274'	'0.0569'	'0.0163'	'0.0275'	'0.183'
\eta_L	'0.1987'	'0.9209'	'0.7114'	'0.683'	'0.0886'
\vartheta_P	'0.0002'	'0.0004'	'0.0011'	'0.0002'	'0.0845'
\gamma_H	'0.3208'	'1'	'0.4726'	'0.9537'	'0.2514'
Z	'16.6098'	'30'	'28.5799'	'29.6936'	'0.1093'
\eta_\vartheta	'0.7095'	'0.7976'	'0.5861'	'0.7161'	'0.1124'
a_L	'10.8338'	'15'	'10.506'	'14.6322'	'0.1376'
b_L	'8.3315'	'13.7052'	'12.7383'	'12.7141'	'0.1674'
a_\mu	'1.35'	'15'	'3.1901'	'2.1769'	'0.1769'
b_\mu	'2.5257'	'13.4059'	'10.6425'	'11.2151'	'0.1692'
\mu	'0'	'0.0253'	'0.1498'	'0.0131'	'0.2124'
a_H	'1'	'4.2728'	'3.1685'	'1.1451'	'0.2011'
b_H	'4.3731'	'14.4557'	'8.5253'	'13.9806'	'0.1602'
\nu	'16.3373'	'27.8013'	'53.2601'	'19.4943'	'0.0839'
BP	'357.369'	'367.1723'	'363.4999'	'357.5012'	'0.1493'
reg	'0.193'	'0.2471'	'0.2141'	'0.2468'	'0.2004'











Chapter 12. Extension number 12

12.1. Basic information

The extension to be validated consists of the time series from the data389 to the 419. The status of the validation is: COMPLETED.

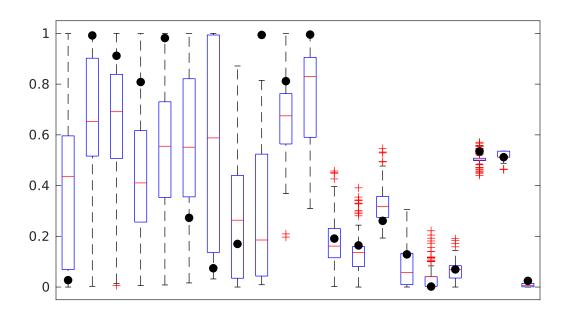
The number of estimations needed to perform the validation was 1000.

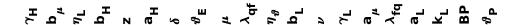
12.2. Estimated parameters with their intervals

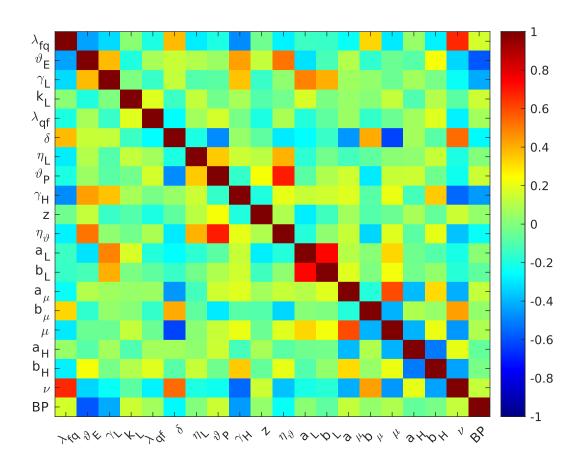
It was necessary to fix 0 parameters of 10 that could be fixed to complete validation.

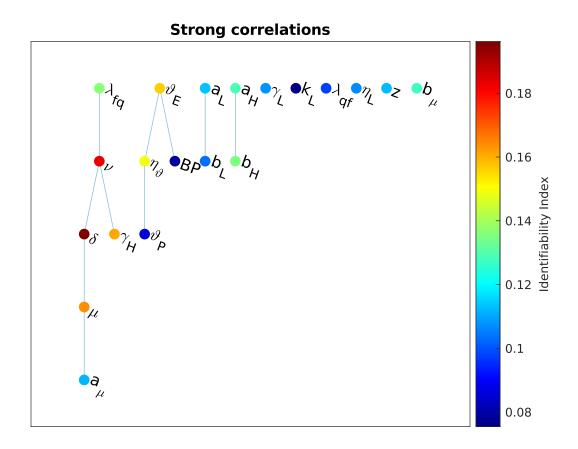
Due to a deviation from the median the CSB method was activated to obtain the

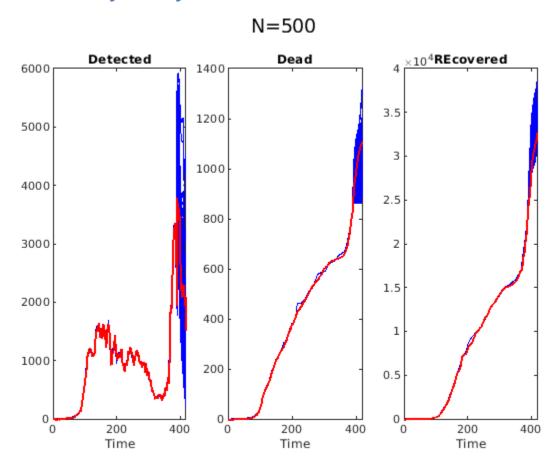
parameter interva		ngo	Nominal	Mejor	Index
\lambda_{fq}	'0'	'0.0044'	'0.0409'	'0.0019'	'0.1367'
\vartheta_E	'0.1133'	'0.358'	'0.2636'	'0.17'	'0.1566'
\gamma_L	'0.2449'	'0.313'	'0.3178'	'0.261'	'0.1078'
k_L	'1.3564'	'10'	'5.5054'	'5.8167'	'0.0754'
\lambda_{qf}	'0.04'	'1'	'0.6749'	'0.8118'	'0.0977'
\delta	'0'	'0.025'	'0.0882'	'0.0111'	'0.1962'
\eta_L	'0.0975'	'1'	'0.6913'	'0.9119'	'0.107'
\vartheta_P	'0.0127'	'0.0248'	'0.0056'	'0.0242'	'0.0858'
\gamma_H	'0'	'0.0553'	'0.4366'	'0.0273'	'0.161'
z	'0.75'	'30'	'16.6571'	'29.4495'	'0.1124'
\eta_\vartheta	'0.8548'	'1'	'0.8291'	'0.9954'	'0.1494'
a_L	'1.7237'	'2.6624'	'1.9606'	'1.9747'	'0.1134'
b_L	'3.1114'	'4.3763'	'3.2668'	'3.6752'	'0.1036'
a_\mu	'1'	'15'	'1.8061'	'2.8029'	'0.1121'
b_\mu	'1'	'15'	'10.1462'	'14.8874'	'0.1279'
\mu	'0.19'	'1'	'0.1864'	'0.994'	'0.1641'
a_H	'1.35'	'15'	'8.7191'	'4.8212'	'0.1296'
b_H	'1'	'15'	'6.749'	'12.3179'	'0.1356'
\nu	'61.5322'	'317.2031'	'68.73'	'82.0172'	'0.1831'
BP	'388.0215'	'390.6893'	'388.5'	'388.5'	'0.0794'











Chapter 13. Extension number 13

13.1. Basic information

The extension to be validated consists of the time series from the data419 to the 440. The status of the validation is: COMPLETED.

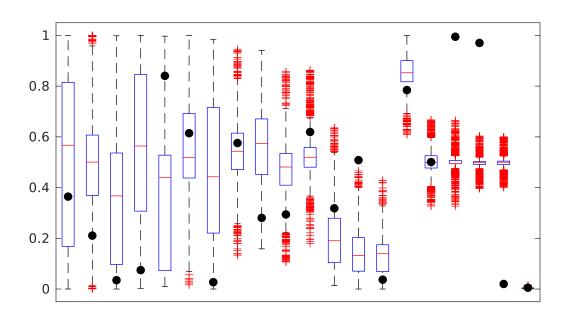
The number of estimations needed to perform the validation was 1000.

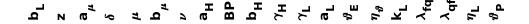
13.2. Estimated parameters with their intervals

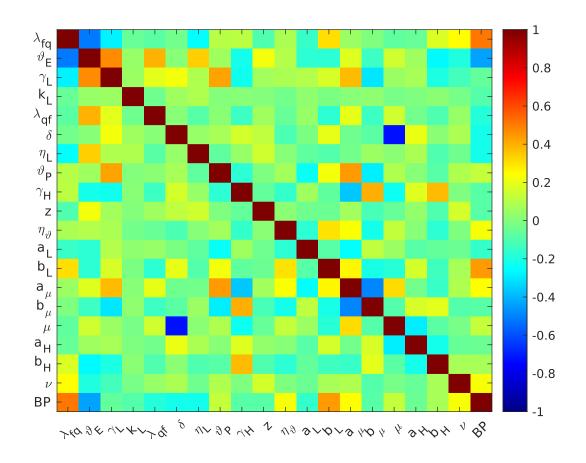
It was necessary to fix 0 parameters of 10 that could be fixed to complete validation.

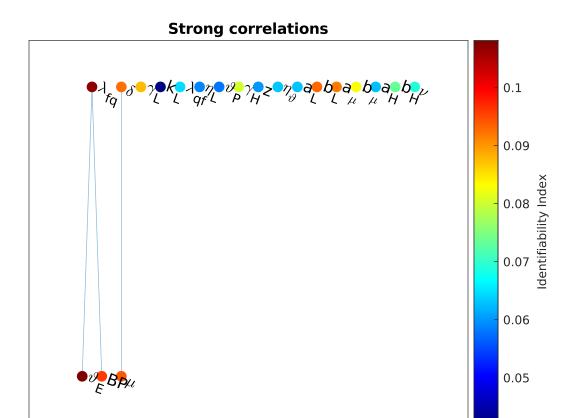
Due to a deviation from the median the CSB method was activated to obtain the

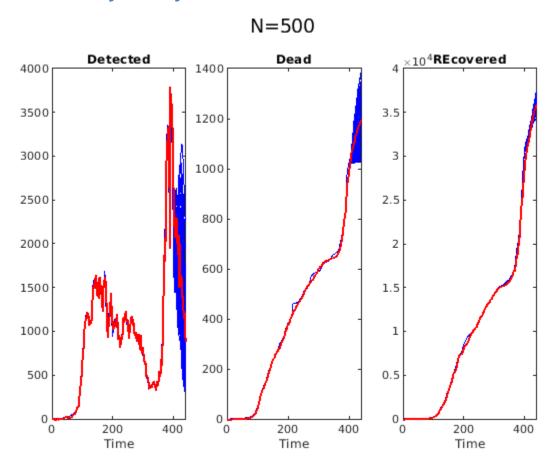
	Rango		Nominal	Mejor	Index
\lambda_{fq}	'0.904'	'1'	'0.4941'	'0.9947'	'0.1069'
\vartheta_E	'0.0225'	'0.0654'	'0.1394'	'0.037'	'0.1081'
\gamma_L	'0.3158'	'0.6675'	'0.1905'	'0.3184'	'0.0877'
k_L	'1.5417'	'7.3348'	'5.4996'	'5.5056'	'0.0423'
\lambda_{qf}	'0.944'	'0.9746'	'0.4996'	'0.9702'	'0.0644'
\delta	'0.0023'	'0.0234'	'0.0846'	'0.0112'	'0.0926'
\eta_L	'0.0176'	'0.0427'	'0.5001'	'0.0201'	'0.0591'
\vartheta_P	'0.0053'	'0.0079'	'0.0028'	'0.0054'	'0.058'
\gamma_H	'0.0588'	'0.8697'	'0.5195'	'0.6191'	'0.0805'
z	'5.3755'	'8.7003'	'15.016'	'6.3206'	'0.0602'
\eta_\vartheta	'0.7555'	'0.8588'	'0.8526'	'0.7846'	'0.0633'
a_L	'8.0039'	'9.8503'	'2.861'	'8.1153'	'0.063'
b_L	'4.9596'	'6.7137'	'8.9375'	'6.1031'	'0.0931'
a_\mu	'1'	'13.1436'	'6.1422'	'1.4902'	'0.0918'
b_\mu	'1.9809'	'14.3'	'8.2586'	'9.6001'	'0.0829'
\mu	'0.1515'	'0.9137'	'0.4401'	'0.8406'	'0.0941'
a_H	'4.4196'	'14.3'	'8.6053'	'9.0598'	'0.0626'
b_H	'1'	'13.236'	'7.7357'	'5.1155'	'0.0734'
\nu	'13.3791'	'19.8287'	'221.3107'	'13.5741'	'0.0691'
ВР	'400.2878'	'404.6799'	'412.4999'	'400.5'	'0.0958'











Chapter 14. Extension number 14

14.1. Basic information

The extension to be validated consists of the time series from the data440 to the 703. The status of the validation is: COMPLETED.

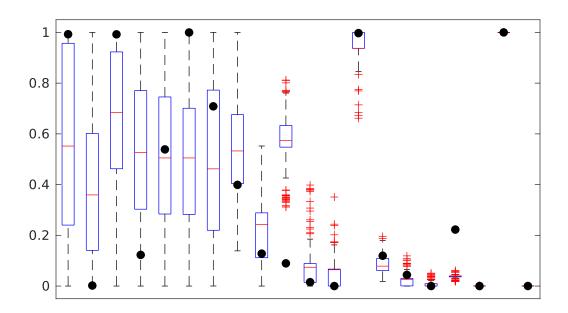
The number of estimations needed to perform the validation was 1000.

14.2. Estimated parameters with their intervals

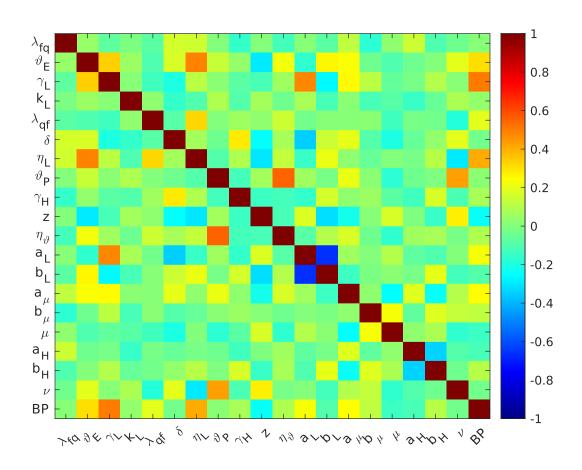
It was necessary to fix 0 parameters of 10 that could be fixed to complete validation.

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

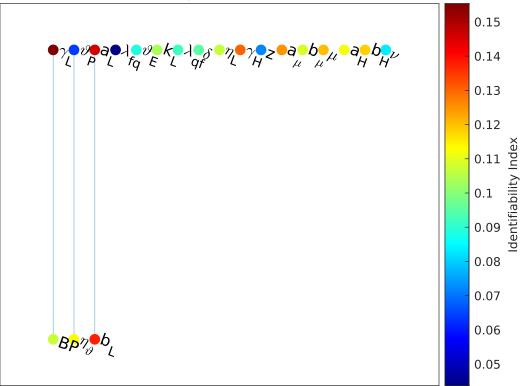
	Rango		Nominal	Mejor	Index
\lambda_{fq}	'0.0002'	'0.0009'	'0'	'0.0002'	'0.0437'
\vartheta_E	'0'	'0'	'0.0096'	'0'	'0.0887'
\gamma_L	'0'	'0'	'0.0668'	'0'	'0.1553'
k_L	'7.7576'	'10'	'5.5461'	'9.9979'	'0.1039'
\lambda_{qf}	'0.1976'	'0.2255'	'0.0398'	'0.2227'	'0.0925'
\delta	'0.0038'	'0.0097'	'0.0039'	'0.0066'	'0.0955'
\eta_L	'0.1131'	'0.1269'	'0.0789'	'0.1195'	'0.1065'
\vartheta_P	'0'	'0'	'0.0002'	'0'	'0.0642'
\gamma_H	'0.8629'	'0.9931'	'0.5519'	'0.9928'	'0.1301'
Z	'28.8989'	'30'	'29.9988'	'30'	'0.0723'
\eta_\vartheta	'0.3984'	'0.4098'	'0.5327'	'0.399'	'0.1127'
a_L	'12.42'	'15'	'14.1198'	'14.961'	'0.1456'
b_L	'1.1707'	'4.4571'	'2.0386'	'1.2155'	'0.1375'
a_\mu	'1'	'2.0029'	'6.0302'	'1.0277'	'0.1252'
b_\mu	'2.557'	'8.5376'	'8.3664'	'2.7198'	'0.1088'
\mu	'0.7131'	'1'	'0.6836'	'0.9924'	'0.1204'
a_H	'7.2849'	'10.9429'	'7.4691'	'10.9196'	'0.1119'
b_H	'5.4719'	'8.9075'	'8.0722'	'8.5424'	'0.1183'
\nu	'61.5343'	'65.5495'	'121.4167'	'63.9193'	'0.0835'
ВР	'435.5'	'543.1741'	'576.0592'	'443.4998'	'0.1072'

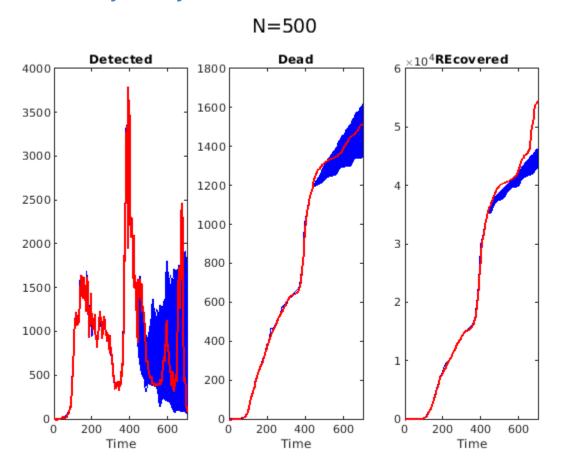






Strong correlations





Chapter 15. Extension number 15

15.1. Basic information

The extension to be validated consists of the time series from the data703 to the 719. The status of the validation is: COMPLETED.

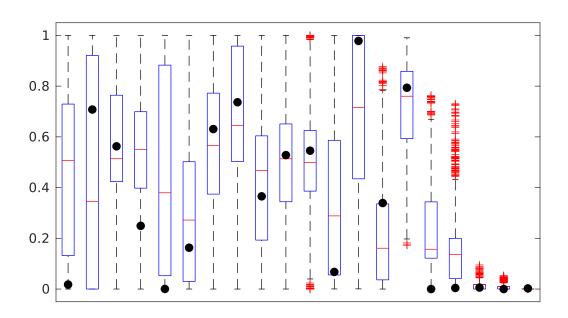
The number of estimations needed to perform the validation was 1000.

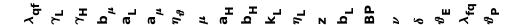
15.2. Estimated parameters with their intervals

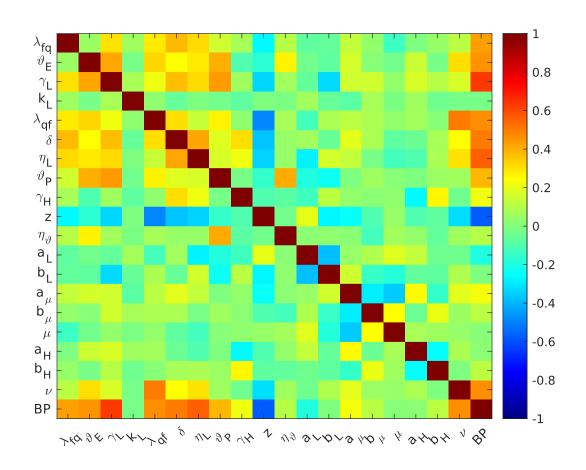
It was necessary to fix 0 parameters of 10 that could be fixed to complete validation.

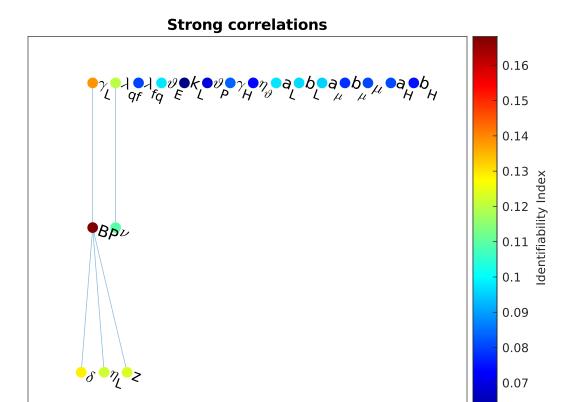
Due to a deviation from the median the CSB method was activated to obtain the

parameter interva		ngo	Nominal	Mejor	Index
\lambda_{fq}	'0'	'0'	'0.0101'	'0'	'0.0802'
\vartheta_E	'0.0046'	'0.0058'	'0.018'	'0.0058'	'0.0976'
\gamma_L	'0.705'	'0.7307'	'0.3448'	'0.7077'	'0.1388'
k_L	'2.6032'	'6.2948'	'5.4947'	'5.91'	'0.0599'
\lambda_{qf}	'0.0081'	'0.0213'	'0.5068'	'0.0178'	'0.1203'
\delta	'0.0003'	'0.0006'	'0.0204'	'0.0006'	'0.1288'
\eta_L	'0.0432'	'0.0676'	'0.2885'	'0.0675'	'0.122'
\vartheta_P	'0.0022'	'0.0026'	'0.0005'	'0.0025'	'0.0695'
\gamma_H	'0.3043'	'0.5969'	'0.5138'	'0.5628'	'0.0839'
Z	'27.7255'	'29.4564'	'21.4616'	'29.3486'	'0.1236'
\eta_\vartheta	'0.6284'	'0.6552'	'0.5665'	'0.6307'	'0.0736'
a_L	'1.003'	'1.0259'	'6.3138'	'1.0052'	'0.0977'
b_L	'5.4601'	'5.7686'	'3.2623'	'5.7486'	'0.0963'
a_\mu	'2.4343'	'9.0643'	'4.8077'	'3.2816'	'0.0955'
b_\mu	'4.0304'	'8.5997'	'8.7035'	'4.4892'	'0.0781'
\mu	'0.2789'	'0.7922'	'0.6453'	'0.7365'	'0.0807'
a_H	'3.731'	'10.8042'	'7.5478'	'6.1172'	'0.0811'
b_H	'3.8782'	'8.667'	'8.1892'	'8.3946'	'0.075'
\nu	'0.0008'	'0.0019'	'78.482'	'0.0014'	'0.1094'
BP	'648.5'	'709'	'644.5'	'653.5'	'0.1681'









0.06

