Validation process for CALI

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 70. The status of the validation is: COMPLETED.

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

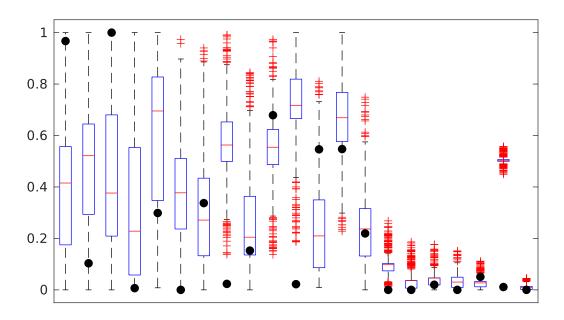
1.2. Estimated parameters with their intervals

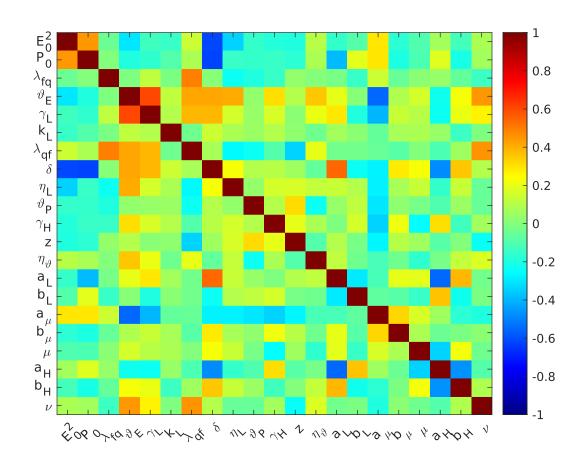
It was necessary to fix 0 parameters of 11 that could be fixed to complete validation.

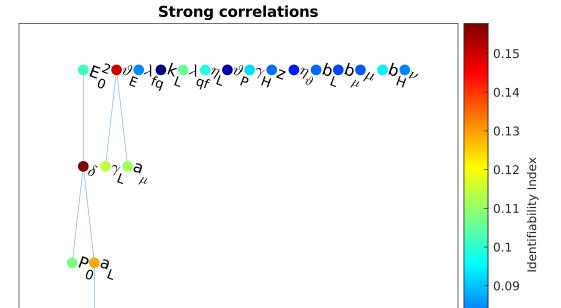
Due to a deviation from the median the CSB method was activated to obtain the

parameter intervals.

	Rar	ngo	Nominal	Mejor	Index
E^2_0	'0.0158'	'0.1078'	'60.7756'	'0.0502'	'0.1018'
P_0	'18.7128'	'22.5207'	'10.8499'	'20.2935'	'0.1079'
\lambda_{fq}	'0.1516'	'0.1555'	'0.205'	'0.1526'	'0.0847'
\vartheta_E	'0.0195'	'0.0352'	'0.0459'	'0.0199'	'0.1498'
\gamma_L	'0'	'0'	'0.098'	'0'	'0.1144'
k_L	'1'	'10'	'5.5208'	'1.0991'	'0.059'
\lambda_{qf}	'0.006'	'0.0072'	'0.2282'	'0.0068'	'0.1059'
\delta	'0.0446'	'0.0589'	'0.1043'	'0.0448'	'0.1577'
\eta_L	'0.9584'	'1'	'0.3764'	'1'	'0.0994'
\vartheta_P	'0'	'0'	'0.0087'	'0'	'0.0633'
\gamma_H	'0.298'	'1'	'0.4153'	'0.9671'	'0.0922'
Z	'15.8527'	'16.9779'	'6.2965'	'16.3883'	'0.0819'
\eta_\vartheta	'0.4972'	'0.8983'	'0.6688'	'0.5472'	'0.0734'
a_L	'1'	'12.97'	'11.0438'	'1.3104'	'0.1292'
b_L	'1'	'14.3'	'4.3235'	'4.0706'	'0.0813'
a_\mu	'1'	'1.2327'	'6.2821'	'1.0005'	'0.1117'
b_\mu	'9.8321'	'14.7416'	'8.7616'	'10.5044'	'0.0781'
\mu	'0.0197'	'0.0265'	'0.5631'	'0.0233'	'0.0802'
a_H	'5.7002'	'8.5351'	'4.8006'	'5.7219'	'0.1133'
b_H	'2.4392'	'4.8423'	'8.2997'	'2.4476'	'0.0948'
\nu	'0'	'0.0001'	'18.2223'	'0.0001'	'0.0841'

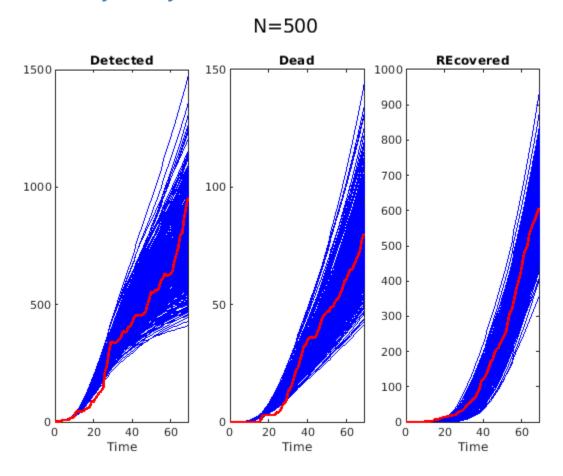






0.08

0.07



Chapter 2. Extension number2

2.1. Basic information

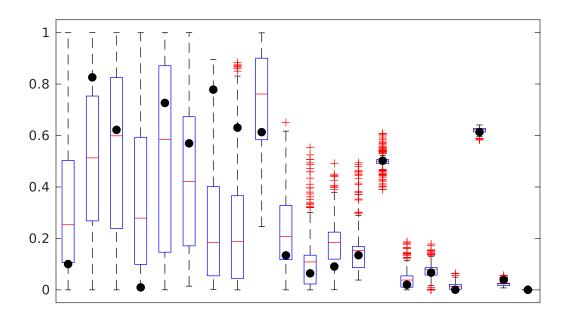
The extension to be validated consists of the time series from the data70 to the 111. The status of the validation is: COMPLETED.

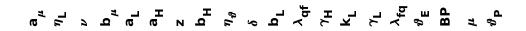
The number of estimations needed to perform the validation was 1000.

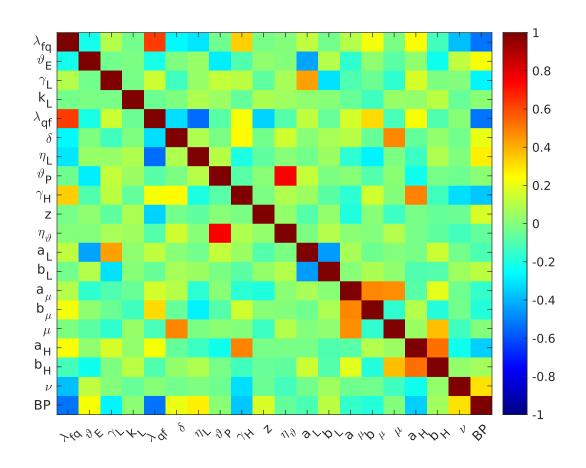
2.2. Estimated parameters with their intervals

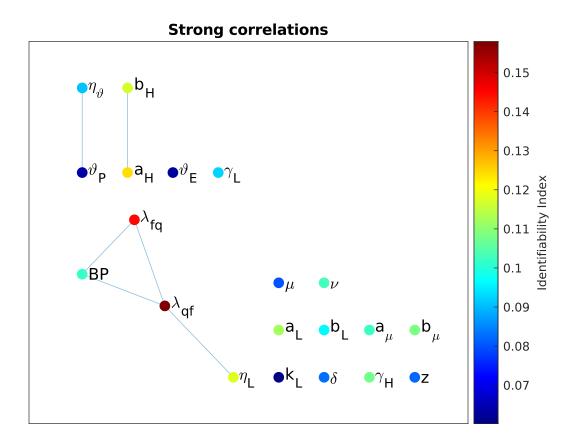
It was necessary to fix 0 parameters of 10 that could be fixed to complete validation.

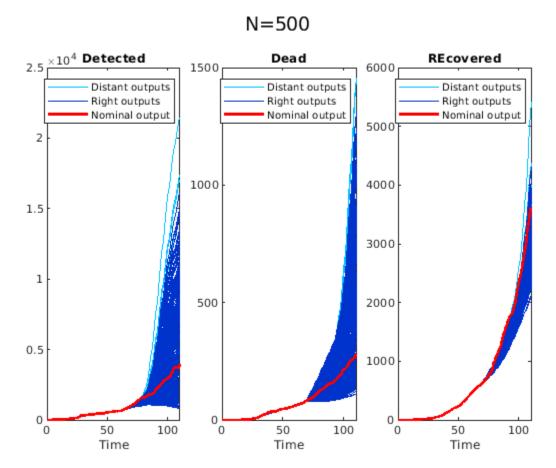
Te was riceessary to	Rango		Nominal	Mejor	Index
Manahala (fa)				_	
\lambda_{fq}	'0.0296'	'0.1273'	'0.0784'	'0.067'	'0.1448'
\vartheta_E	'0.0044'	'0.0226'	'0.0135'	'0.0005'	'0.0629'
\gamma_L	'0'	'0.0764'	'0.0382'	'0.0202'	'0.0925'
k_L	'5.2841'	'5.7125'	'5.4983'	'5.5183'	'0.0602'
\lambda_{qf}	'0.1415'	'0.226'	'0.1838'	'0.0908'	'0.1579'
\delta	'0.0269'	'0.0356'	'0.0312'	'0.0201'	'0.0828'
\eta_L	'0.4645'	'0.5618'	'0.5132'	'0.8261'	'0.1179'
\vartheta_P	'0.0003'	'0.0007'	'0.0005'	'0.0002'	'0.064'
\gamma_H	'0.1105'	'0.1955'	'0.153'	'0.1348'	'0.1077'
Z	'4.3705'	'6.7259'	'5.5482'	'23.3495'	'0.0822'
\eta_\vartheta	'0.73'	'0.7927'	'0.7613'	'0.613'	'0.091'
a_L	'8.3685'	'10.0044'	'9.1864'	'11.1716'	'0.1124'
b_L	'1.8379'	'3.2131'	'2.5255'	'1.9003'	'0.0962'
a_\mu	'3.939'	'5.151'	'4.545'	'2.4034'	'0.1025'
b_\mu	'4.1854'	'5.6244'	'4.9049'	'1.1349'	'0.1087'
\mu	'0'	'0.051'	'0.0236'	'0.0384'	'0.0801'
a_H	'6.2311'	'7.5742'	'6.9027'	'8.9728'	'0.124'
b_H	'2.9835'	'4.3082'	'3.6459'	'9.8273'	'0.1168'
\nu	'272.4813'	'326.3548'	'299.418'	'310.9666'	'0.1031'
ВР	'69.2043'	'69.7957'	'69.5'	'68.5'	'0.102'











Chapter 3. Extension number 3

3.1. Basic information

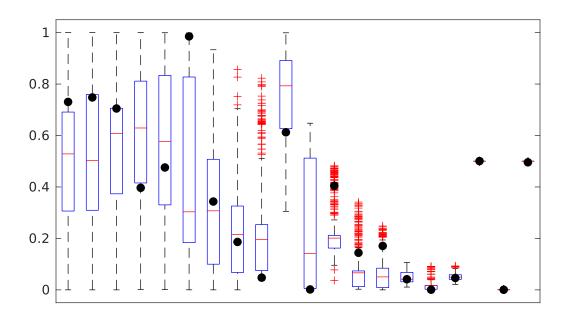
The extension to be validated consists of the time series from the data111 to the 152. The status of the validation is: COMPLETED.

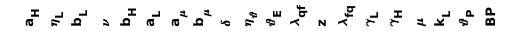
The number of estimations needed to perform the validation was 1000.

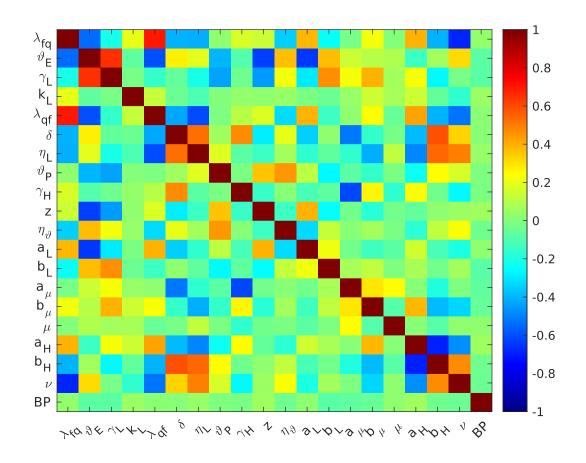
3.2. Estimated parameters with their intervals

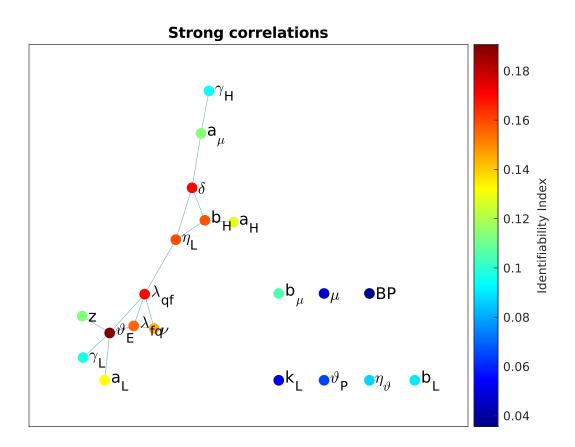
It was necessary to fix 0 parameters of 10 that could be fixed to complete validation.

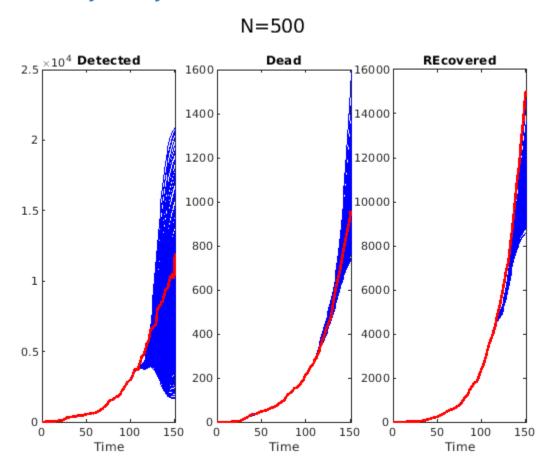
	Rar	ngo	Nominal	Mejor	Index
\lambda_{fq}	'0.0271'	'0.0737'	'0.0504'	'0.1707'	'0.155'
\vartheta_E	'0.1108'	'0.1733'	'0.142'	'0.0016'	'0.1907'
\gamma_L	'0.0369'	'0.0458'	'0.0414'	'0.0414'	'0.0979'
k_L	'5.4251'	'5.5749'	'5.5'	'5.5057'	'0.0508'
\lambda_{qf}	'0.1739'	'0.2286'	'0.2012'	'0.4046'	'0.1704'
\delta	'0.0229'	'0.0359'	'0.0294'	'0.0071'	'0.17'
\eta_L	'0.4679'	'0.5366'	'0.5023'	'0.748'	'0.1593'
\vartheta_P	'0.0003'	'0.0007'	'0.0005'	'0.0004'	'0.0651'
\gamma_H	'0'	'0.0416'	'0.0173'	'0.0007'	'0.095'
z	'1.0378'	'2.9325'	'1.9851'	'4.3262'	'0.1137'
\eta_\vartheta	'0.7716'	'0.8147'	'0.7931'	'0.6126'	'0.0875'
a_L	'4.6373'	'5.8572'	'5.2472'	'14.7936'	'0.1325'
b_L	'9.0693'	'9.9478'	'9.5086'	'10.8693'	'0.0904'
a_\mu	'4.8864'	'5.7171'	'5.3018'	'5.8066'	'0.1145'
b_\mu	'3.6111'	'4.4292'	'4.0201'	'3.6079'	'0.1058'
\mu	'0.0435'	'0.0555'	'0.0495'	'0.0463'	'0.0462'
a_H	'7.9681'	'8.8303'	'8.3992'	'11.2285'	'0.1277'
b_H	'8.5686'	'9.5782'	'9.0734'	'7.6597'	'0.158'
\nu	'297.7369'	'331.5002'	'314.6186'	'198.3294'	'0.1445'
ВР	'110.9706'	'111.0294'	'111'	'110.6587'	'0.0356'











Chapter 4. Extension number 4

4.1. Basic information

The extension to be validated consists of the time series from the data152 to the 187. The status of the validation is: COMPLETED.

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

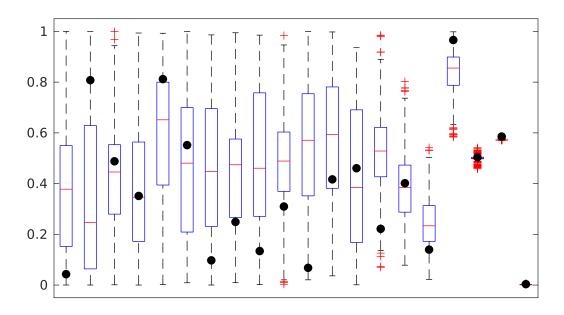
4.2. Estimated parameters with their intervals

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

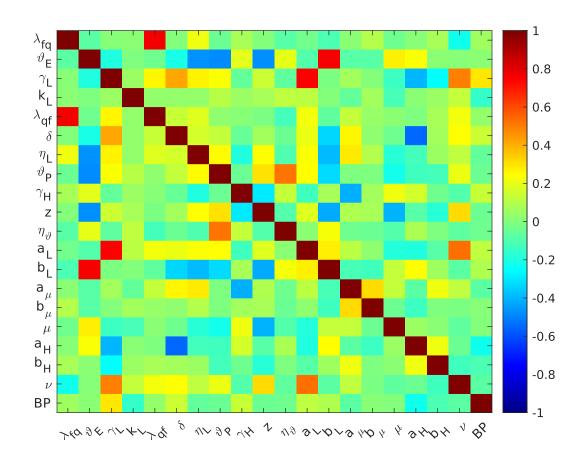
Due to a deviation from the median the CSB method was activated to obtain the

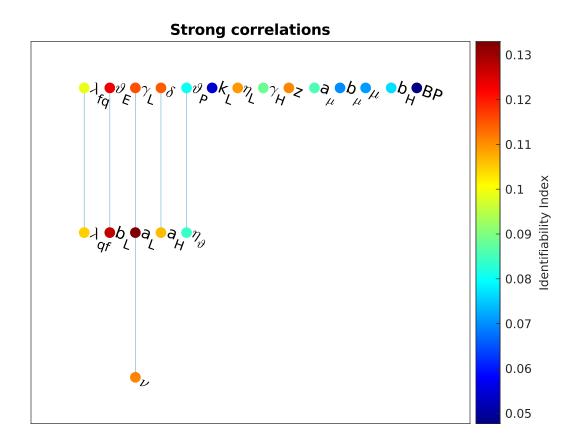
parameter intervals.

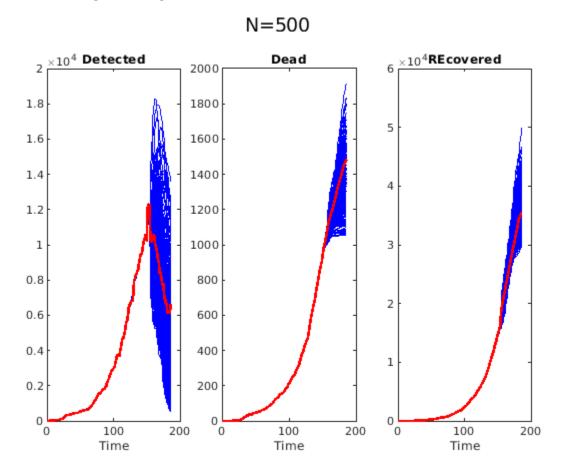
parameter interva	Rango		Nominal	Mejor	Index
\lambda_{fq}	'0.0319'	'1'	'0.378'	'0.0429'	'0.0992'
\vartheta_E	'0.3148'	'0.6373'	'0.3846'	'0.4606'	'0.1236'
\gamma_L	'0.147'	'0.9631'	'0.3848'	'0.4015'	'0.1154'
k_L	'1'	'10'	'5.5002'	'5.5317'	'0.0542'
\lambda_{qf}	'0.0017'	'0.0831'	'0.5709'	'0.0679'	'0.1048'
\delta	'0'	'0.043'	'0.0691'	'0.0201'	'0.1146'
\eta_L	'0.0044'	'0.219'	'0.4473'	'0.0973'	'0.1094'
\vartheta_P	'0.0006'	'0.0076'	'0.0016'	'0.0036'	'0.0805'
\gamma_H	'0'	'0.7904'	'0.3463'	'0.3513'	'0.0886'
Z	'0'	'30'	'14.4168'	'16.5505'	'0.1109'
\eta_\vartheta	'0.6872'	'1'	'0.8555'	'0.966'	'0.0842'
a_L	'7.9042'	'15'	'10.1211'	'12.368'	'0.1329'
b_L	'2.2183'	'15'	'4.4523'	'12.3075'	'0.1273'
a_\mu	'1'	'15'	'8.3977'	'4.1021'	'0.0859'
b_\mu	'1'	'14.44'	'7.844'	'5.3345'	'0.0698'
\mu	'0'	'0.3144'	'0.2339'	'0.1397'	'0.0712'
a_H	'1'	'15'	'7.2394'	'7.8314'	'0.1064'
b_H	'1'	'15'	'7.6399'	'4.4835'	'0.077'
\nu	'167.1846'	'500'	'297.0933'	'208.331'	'0.111'
BP	'155.2729'	'161.959'	'154.5'	'155.5'	'0.0477'











Chapter 5. Extension number 5

5.1. Basic information

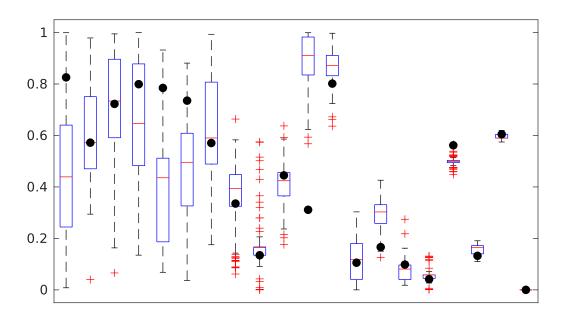
The extension to be validated consists of the time series from the data187 to the 219. The status of the validation is: COMPLETED.

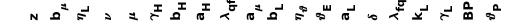
The number of estimations needed to perform the validation was 2000.

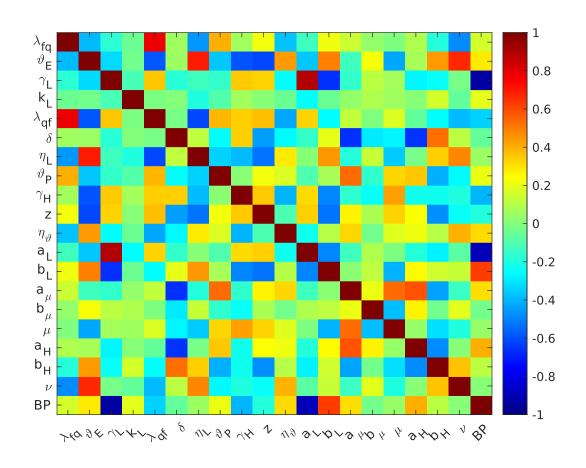
5.2. Estimated parameters with their intervals

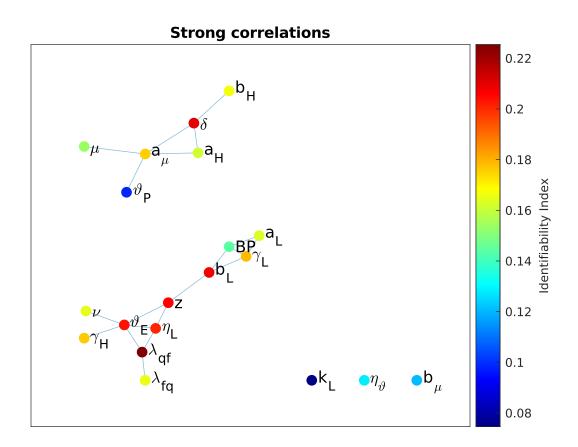
It was necessary to fix 0 parameters of 10 that could be fixed to complete validation.

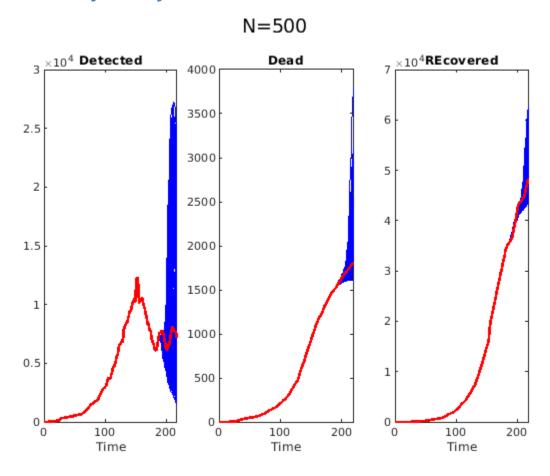
	Rar	ngo	Nominal	Mejor	Index
\lambda_{fq}	'0'	'0.1466'	'0.0584'	'0.0416'	'0.1656'
\vartheta_E	'0.0916'	'0.1439'	'0.1177'	'0.1055'	'0.2032'
\gamma_L	'0.12'	'0.2092'	'0.1646'	'0.1323'	'0.1784'
k_L	'5.2202'	'5.7706'	'5.4954'	'6.0563'	'0.0746'
\lambda_{qf}	'0.0764'	'0.257'	'0.1667'	'0.1346'	'0.2254'
\delta	'0'	'0.0269'	'0.0123'	'0.0148'	'0.2102'
\eta_L	'0.665'	'0.797'	'0.731'	'0.7227'	'0.2007'
\vartheta_P	'0'	'0.0012'	'0.0003'	'0'	'0.0983'
\gamma_H	'0.4267'	'0.5648'	'0.4958'	'0.7354'	'0.1764'
Z	'11.0771'	'15.2722'	'13.1747'	'24.7734'	'0.206'
\eta_\vartheta	'0.8251'	'0.9155'	'0.8703'	'0.8016'	'0.1286'
a_L	'4.5751'	'5.9055'	'5.2403'	'3.325'	'0.163'
b_L	'12.7151'	'14.7951'	'13.7551'	'5.3565'	'0.2083'
a_\mu	'6.4161'	'7.4599'	'6.938'	'7.2284'	'0.1756'
b_\mu	'8.1394'	'9.8644'	'9.0019'	'9.0088'	'0.1208'
\mu	'0.3761'	'0.4952'	'0.4357'	'0.7848'	'0.1538'
a_H	'5.7287'	'7.3019'	'6.5153'	'5.6951'	'0.1616'
b_H	'8.4211'	'10.1075'	'9.2643'	'8.9894'	'0.1668'
\nu	'286.8637'	'359.6358'	'323.2498'	'399.6667'	'0.1653'
ВР	'190.6336'	'192.3664'	'191.5'	'192.5'	'0.1446'











Chapter 6. Extension number 6

6.1. Basic information

The extension to be validated consists of the time series from the data219 to the 295. The status of the validation is: COMPLETED.

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

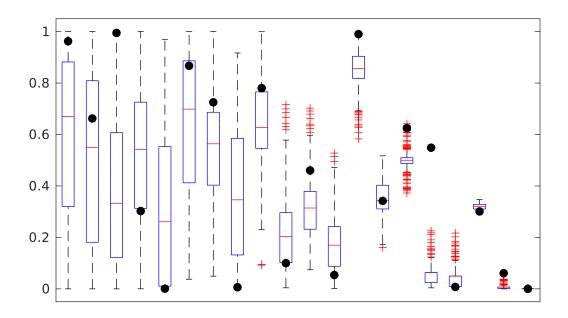
6.2. Estimated parameters with their intervals

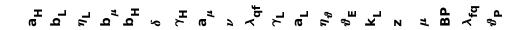
It was necessary to fix 0 parameters of 10 that could be fixed to complete validation.

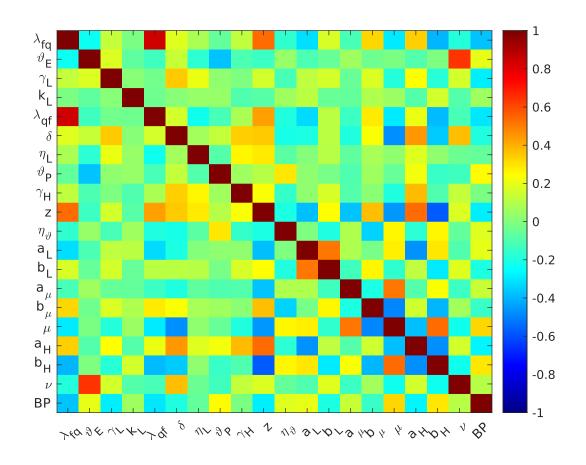
Due to a deviation from the median the CSB method was activated to obtain the

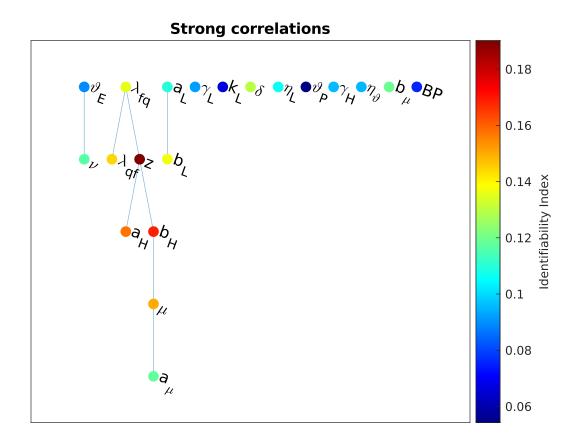
parameter intervals.

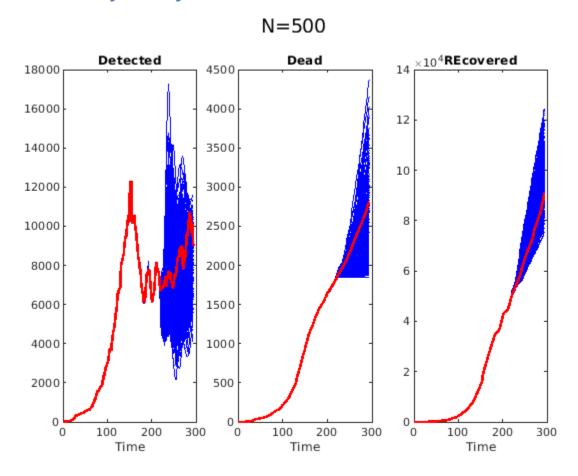
	Rar	ngo	Nominal	Mejor	Index
\lambda_{fq}	'0.0507'	'0.0614'	'0.007'	'0.0608'	'0.1358'
\vartheta_E	'0.2965'	'0.4337'	'0.3437'	'0.342'	'0.0896'
\gamma_L	'0.1835'	'0.6992'	'0.3147'	'0.4602'	'0.092'
k_L	'1'	'10'	'5.4988'	'6.6245'	'0.0665'
\lambda_{qf}	'0.0979'	'0.1189'	'0.2039'	'0.1'	'0.1444'
\delta	'0.0469'	'0.1376'	'0.1048'	'0.1301'	'0.1297'
\eta_L	'0.6184'	'1'	'0.3327'	'0.9949'	'0.1067'
\vartheta_P	'0'	'0.0001'	'0.0006'	'0.0001'	'0.0542'
\gamma_H	'0.2874'	'0.9031'	'0.5639'	'0.7251'	'0.0958'
Z	'16.1599'	'30'	'1.907'	'16.4595'	'0.1902'
\eta_\vartheta	'0.5059'	'1'	'0.8559'	'0.9902'	'0.0955'
a_L	'1.3719'	'5.1954'	'3.3815'	'1.755'	'0.1095'
b_L	'6.3888'	'14.5694'	'8.6865'	'10.2715'	'0.1373'
a_\mu	'1'	'13.768'	'5.8453'	'1.0888'	'0.1182'
b_\mu	'1'	'15'	'8.5935'	'5.2343'	'0.1191'
\mu	'0'	'0.017'	'0.0499'	'0.0076'	'0.1502'
a_H	'5.6137'	'15'	'10.3719'	'14.476'	'0.1575'
b_H	'1'	'13.88'	'4.6492'	'1.0133'	'0.1689'
\nu	'383.7428'	'483.3314'	'312.9388'	'390.1119'	'0.1164'
BP	'219.086'	'248.9857'	'221.5'	'219.5'	'0.0755'











Chapter 7. Extension number 7

7.1. Basic information

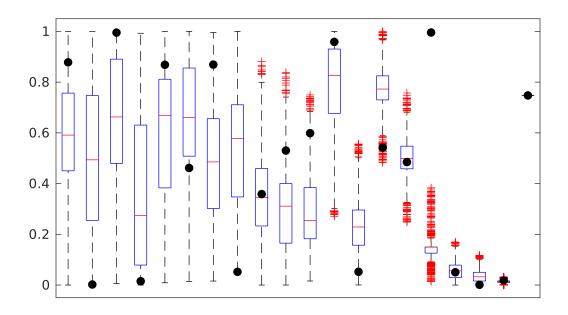
The extension to be validated consists of the time series from the data295 to the 320. The status of the validation is: COMPLETED.

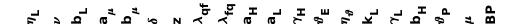
The number of estimations needed to perform the validation was 1000.

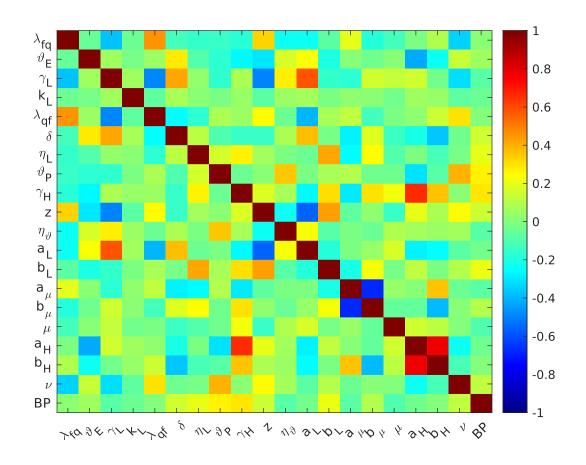
7.2. Estimated parameters with their intervals

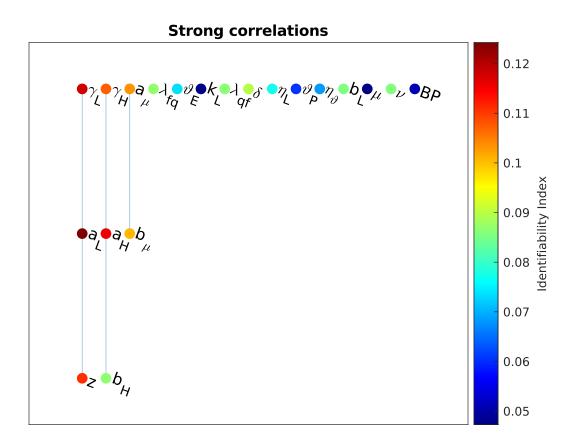
It was necessary to fix 0 parameters of 10 that could be fixed to complete validation.

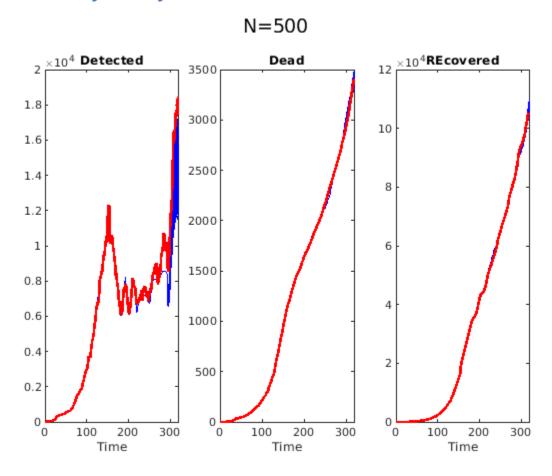
	Ra	ngo	Nominal	Mejor	Index
\lambda_{fq}	'0.3253'	'0.3657'	'0.3455'	'0.3586'	'0.087'
\vartheta_E	'0.2154'	'0.2424'	'0.2289'	'0.0523'	'0.0735'
\gamma_L	'0.1218'	'0.1776'	'0.1497'	'0.9957'	'0.1181'
k_L	'5.3848'	'5.606'	'5.4954'	'5.3638'	'0.0476'
\lambda_{qf}	'0.5551'	'0.6009'	'0.578'	'0.0521'	'0.0866'
\delta	'0.0958'	'0.1022'	'0.099'	'0.0692'	'0.09'
\eta_L	'0.5699'	'0.6126'	'0.5913'	'0.8781'	'0.0774'
\vartheta_P	'0.0288'	'0.0361'	'0.0324'	'0.001'	'0.0606'
\gamma_H	'0.8069'	'0.8456'	'0.8262'	'0.9588'	'0.1073'
Z	'13.8552'	'15.2779'	'14.5665'	'26.0764'	'0.1109'
\eta_\vartheta	'0.7572'	'0.7884'	'0.7728'	'0.5416'	'0.0686'
a_L	'4.2242'	'4.8909'	'4.5575'	'9.3838'	'0.1242'
b_L	'9.942'	'10.6169'	'10.2795'	'14.9341'	'0.0857'
a_\mu	'4.4369'	'5.2459'	'4.8414'	'1.2113'	'0.1033'
b_\mu	'9.9988'	'10.7402'	'10.3695'	'13.1581'	'0.1005'
\mu	'0.0124'	'0.0151'	'0.0137'	'0.0183'	'0.0473'
a_H	'5.0993'	'5.6102'	'5.3548'	'8.4239'	'0.1157'
b_H	'1.7274'	'1.8454'	'1.7864'	'1.7059'	'0.087'
\nu	'233.024'	'260.7027'	'246.8633'	'1.0768'	'0.0859'
ВР	'294.431'	'294.569'	'294.5'	'294.5'	'0.0509'











Chapter 8. Extension number 8

8.1. Basic information

The extension to be validated consists of the time series from the data320 to the 339. The status of the validation is: COMPLETED.

The number of estimations needed to perform the validation was 4000.

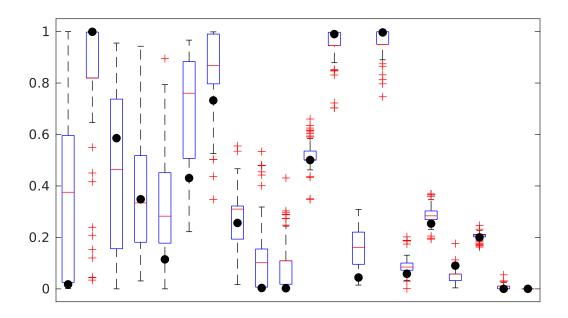
8.2. Estimated parameters with their intervals

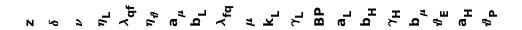
It was necessary to fix 0 parameters of 10 that could be fixed to complete validation.

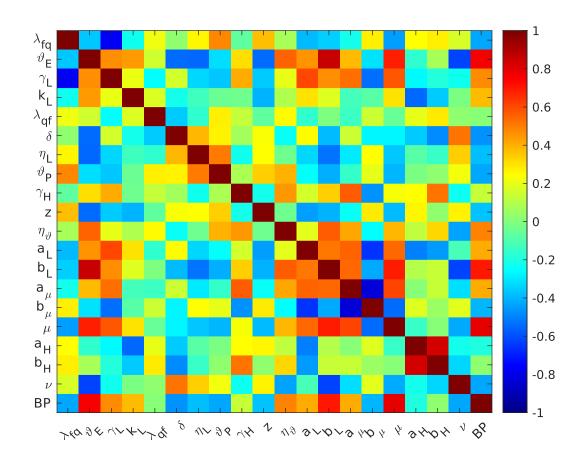
Due to a deviation from the median the CSB method was activated to obtain the

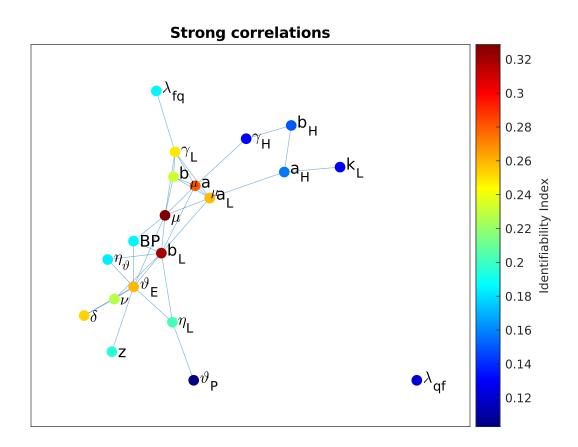
parameter intervals.

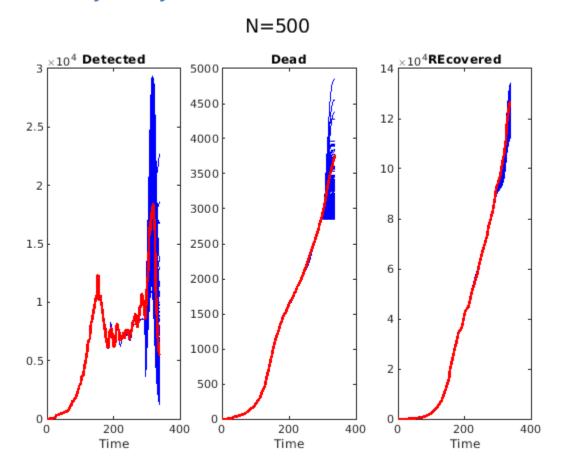
	Rango		Nominal	Mejor	Index
\lambda_{fq}	'0.0012'	'0.0077'	'0.1015'	'0.0034'	'0.1852'
\vartheta_E	'0.1028'	'0.3032'	'0.2092'	'0.2002'	'0.2591'
\gamma_L	'0.4988'	'1'	'0.9453'	'0.9902'	'0.2477'
k_L	'1.18'	'10'	'5.5196'	'5.5072'	'0.1301'
\lambda_{qf}	'0.0052'	'0.191'	'0.2826'	'0.1146'	'0.1218'
\delta	'0.0177'	'0.15'	'0.1229'	'0.1499'	'0.2533'
\eta_L	'0'	'0.6501'	'0.3341'	'0.3484'	'0.203'
\vartheta_P	'0.0001'	'0.0005'	'0.0004'	'0.0002'	'0.103'
\gamma_H	'0.1647'	'1'	'0.2838'	'0.2536'	'0.1307'
Z	'0.0246'	'0.9856'	'11.2664'	'0.5267'	'0.1964'
\eta_\vartheta	'0.4286'	'0.5326'	'0.7606'	'0.4307'	'0.1835'
a_L	'12.4078'	'15'	'14.3066'	'14.9542'	'0.2589'
b_L	'4.5064'	'6.4781'	'5.3401'	'4.5864'	'0.3196'
a_\mu	'1'	'14.44'	'13.1553'	'11.2551'	'0.2809'
b_\mu	'1.28'	'15'	'1.8033'	'2.2646'	'0.2325'
\mu	'0.0001'	'0.0056'	'0.1091'	'0.0025'	'0.3287'
a_H	'1'	'4.082'	'1.1488'	'1.0021'	'0.1579'
b_H	'1.1489'	'3.3267'	'2.1893'	'1.8197'	'0.1504'
\nu	'204.9699'	'500'	'231.5903'	'292.9221'	'0.2281'
BP	'295.7549'	'299.4182'	'300.494'	'296.5'	'0.1855'











Chapter 9. Extension number9

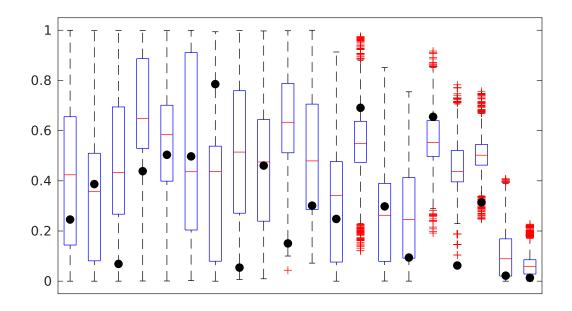
9.1. Basic information

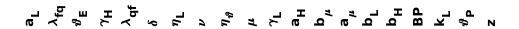
The extension to be validated consists of the time series from the data339 to the 354. The status of the validation is: COMPLETED.

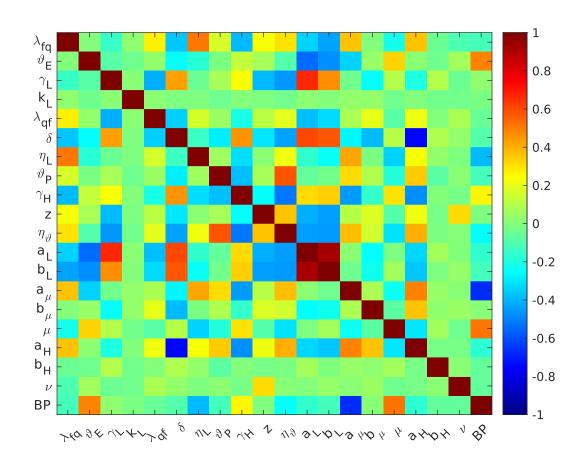
The number of estimations needed to perform the validation was 1000.

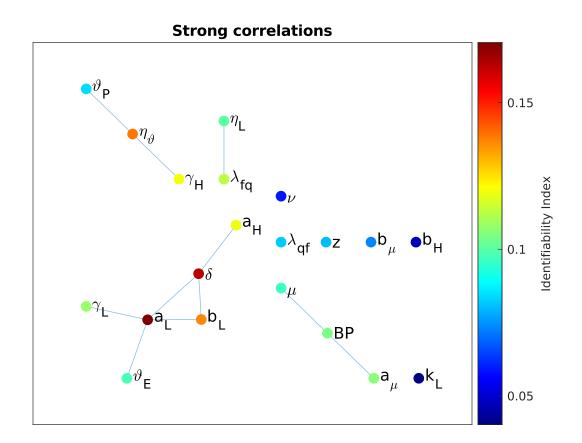
9.2. Estimated parameters with their intervals

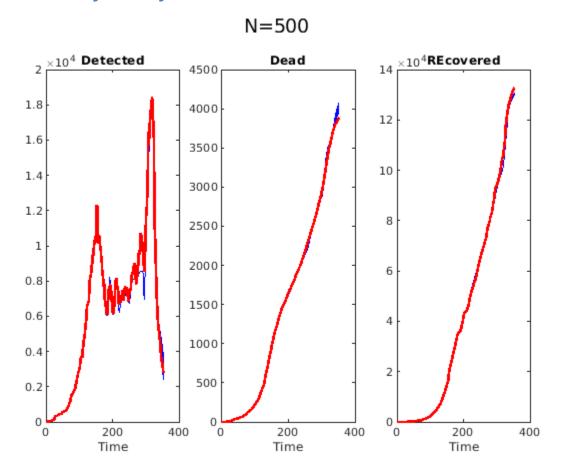
	Rango		Nominal	Mejor	Index
\lambda_{fq}	'0.3367'	'0.3765'	'0.3566'	'0.3869'	'0.1125'
\vartheta_E	'0.4134'	'0.4535'	'0.4334'	'0.0688'	'0.098'
\gamma_L	'0.4607'	'0.498'	'0.4794'	'0.3011'	'0.1081'
k_L	'5.4224'	'5.6153'	'5.5188'	'3.8265'	'0.0402'
\lambda_{qf}	'0.5667'	'0.6009'	'0.5838'	'0.5036'	'0.0823'
\delta	'0.0615'	'0.0694'	'0.0654'	'0.0746'	'0.163'
\eta_L	'0.4171'	'0.4561'	'0.4366'	'0.7853'	'0.1003'
\vartheta_P	'0.0797'	'0.0991'	'0.0894'	'0.0221'	'0.0841'
\gamma_H	'0.631'	'0.6657'	'0.6483'	'0.4384'	'0.1199'
Z	'1.4768'	'2.0833'	'1.7801'	'0.4049'	'0.0803'
\eta_\vartheta	'0.4563'	'0.4941'	'0.4752'	'0.4607'	'0.1388'
a_L	'6.5966'	'7.2753'	'6.9359'	'4.4401'	'0.1705'
b_L	'4.1939'	'4.6754'	'4.4346'	'2.3194'	'0.1367'
a_\mu	'4.4779'	'4.8768'	'4.6773'	'5.1739'	'0.1062'
b_\mu	'8.4468'	'8.8972'	'8.672'	'10.6734'	'0.0735'
\mu	'0.6166'	'0.6498'	'0.6332'	'0.1506'	'0.0965'
a_H	'5.546'	'5.9989'	'5.7724'	'4.4716'	'0.1195'
b_H	'8.5565'	'8.9223'	'8.7394'	'10.172'	'0.0475'
\nu	'246.3003'	'268.2075'	'257.2539'	'27.0618'	'0.059'
BP	'330.2672'	'330.7328'	'330.5'	'321.5'	'0.1044'











Chapter 10. Extension number 10

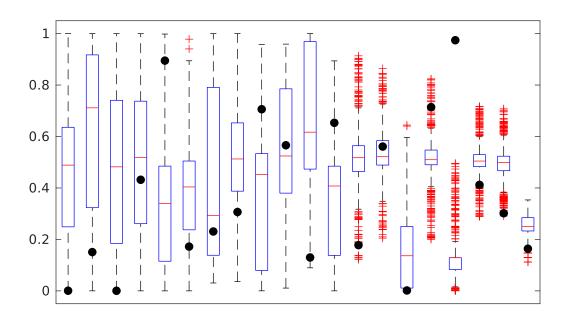
10.1. Basic information

The extension to be validated consists of the time series from the data354 to the 407. The status of the validation is: COMPLETED.

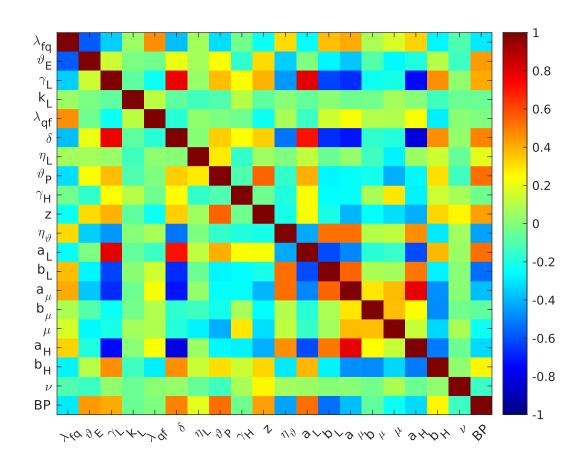
The number of estimations needed to perform the validation was 1000.

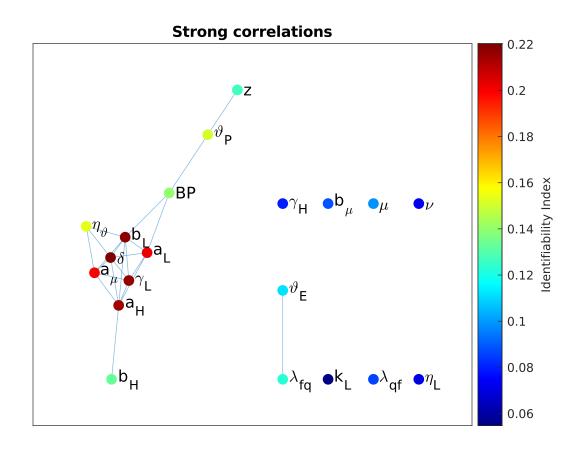
10.2. Estimated parameters with their intervals

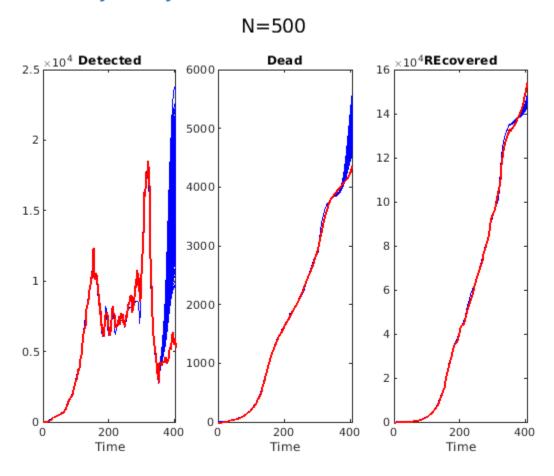
	Rango		Nominal	Mejor	Index
\lambda_{fq}	'0.1142'	'0.1587'	'0.1365'	'0.0015'	'0.1228'
\vartheta_E	'0.4992'	'0.5495'	'0.5243'	'0.5659'	'0.112'
\gamma_L	'0.2552'	'0.3307'	'0.293'	'0.2308'	'0.2159'
k_L	'5.3588'	'5.6308'	'5.4948'	'3.7152'	'0.0548'
\lambda_{qf}	'0.4605'	'0.517'	'0.4887'	'0.0006'	'0.0864'
\delta	'0.0882'	'0.0968'	'0.0925'	'0.0195'	'0.2203'
\eta_L	'0.3814'	'0.4265'	'0.4039'	'0.1721'	'0.0712'
\vartheta_P	'0.4466'	'0.5174'	'0.482'	'0.0004'	'0.1505'
\gamma_H	'0.4862'	'0.5229'	'0.5045'	'0.4121'	'0.0799'
Z	'14.6785'	'16.0843'	'15.3814'	'9.1963'	'0.1267'
\eta_\vartheta	'0.314'	'0.3664'	'0.3402'	'0.895'	'0.1542'
a_L	'10.4667'	'11.4534'	'10.9601'	'3.1098'	'0.2022'
b_L	'2.3964'	'3.2124'	'2.8044'	'14.6393'	'0.2171'
a_\mu	'6.3969'	'7.0158'	'6.7064'	'10.1445'	'0.2'
b_\mu	'7.9698'	'8.6319'	'8.3009'	'8.8529'	'0.0886'
\mu	'0.4876'	'0.532'	'0.5098'	'0.7143'	'0.0991'
a_H	'6.9578'	'7.7105'	'7.3341'	'10.8842'	'0.214'
b_H	'7.9064'	'8.5838'	'8.2451'	'3.4883'	'0.1328'
\nu	'243.7015'	'274.3891'	'259.0453'	'215.9136'	'0.0724'
BP	'353.1558'	'353.8442'	'353.5'	'348.5'	'0.1405'











Chapter 11. Extension number 11

11.1. Basic information

The extension to be validated consists of the time series from the data407 to the 458. The status of the validation is: COMPLETED.

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

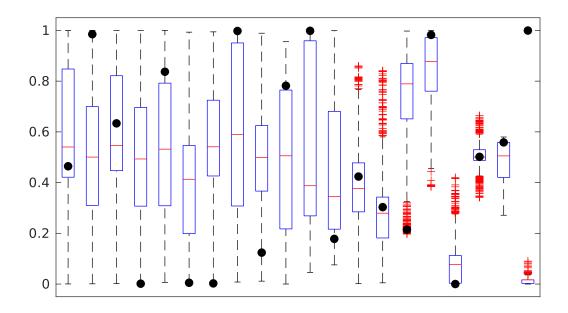
11.2. Estimated parameters with their intervals

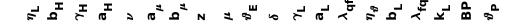
It was necessary to fix 0 parameters of 10 that could be fixed to complete validation.

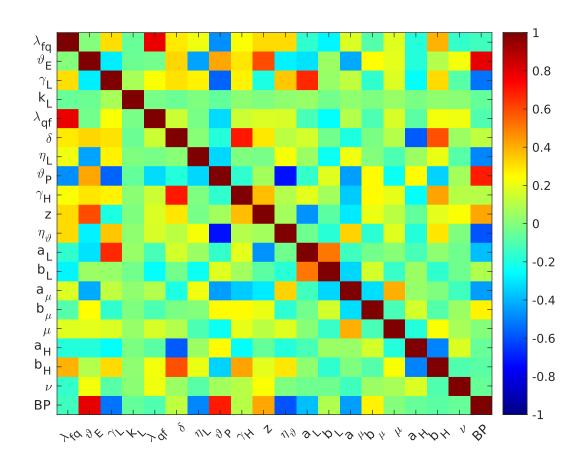
Due to a deviation from the median the CSB method was activated to obtain the

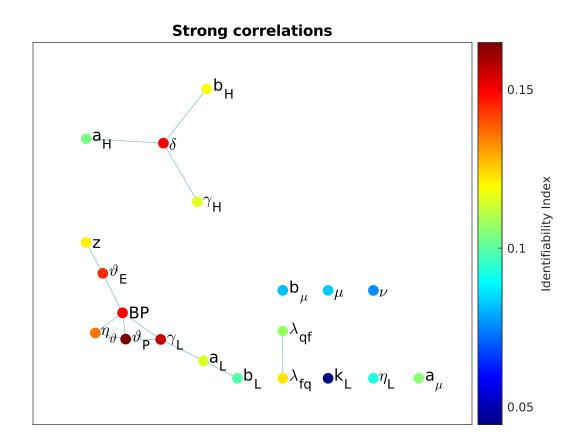
parameter intervals.

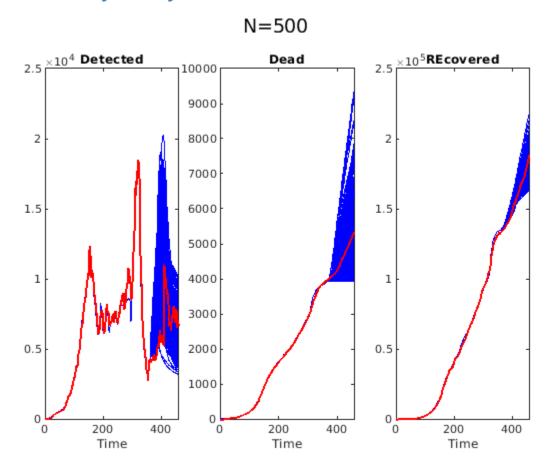
Darameter Intervals.						
	Rango		Nominal	Mejor	Index	
\lambda_{fq}	'0'	'0.0002'	'0.0779'	'0.0001'	'0.1221'	
\vartheta_E	'0.7775'	'0.8187'	'0.5056'	'0.7818'	'0.1442'	
\gamma_L	'0.1733'	'0.8857'	'0.3457'	'0.1781'	'0.156'	
k_L	'1'	'10'	'5.5074'	'5.5139'	'0.0444'	
\lambda_{qf}	'0.2721'	'1'	'0.2796'	'0.3033'	'0.1072'	
\delta	'0.015'	'0.15'	'0.0581'	'0.1498'	'0.1502'	
\eta_L	'0'	'1'	'0.5403'	'0.4644'	'0.093'	
\vartheta_P	'0.9099'	'1'	'0.0168'	'0.9995'	'0.1648'	
\gamma_H	'0.05'	'0.9525'	'0.5459'	'0.6336'	'0.1163'	
z	'25.9164'	'30'	'17.7048'	'29.9305'	'0.1211'	
\eta_\vartheta	'0'	'0.4828'	'0.7891'	'0.2146'	'0.1358'	
a_L	'5.2774'	'13.6286'	'6.2698'	'6.9331'	'0.1153'	
b_L	'6.9599'	'15'	'13.2783'	'14.7518'	'0.0991'	
a_\mu	'1'	'13.6'	'6.7831'	'1.0709'	'0.1059'	
b_\mu	'1'	'15'	'8.5758'	'1.036'	'0.0816'	
\mu	'0'	'0.2565'	'0.4984'	'0.1239'	'0.0831'	
a_H	'1'	'14.44'	'7.9047'	'1.0204'	'0.1035'	
b_H	'1.7'	'15'	'8.009'	'14.7902'	'0.1187'	
\nu	'371.9945'	'500'	'265.9148'	'418.5417'	'0.076'	
BP	'363.4878'	'406.64'	'401.5'	'406.5'	'0.15'	











Chapter 12. Extension number 12

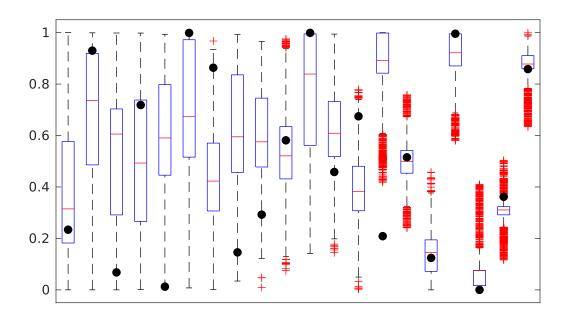
12.1. Basic information

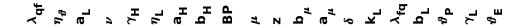
The extension to be validated consists of the time series from the data458 to the 470. The status of the validation is: COMPLETED.

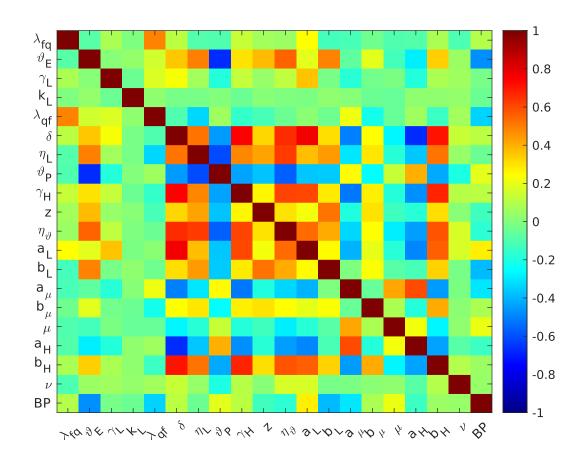
The number of estimations needed to perform the validation was 1000.

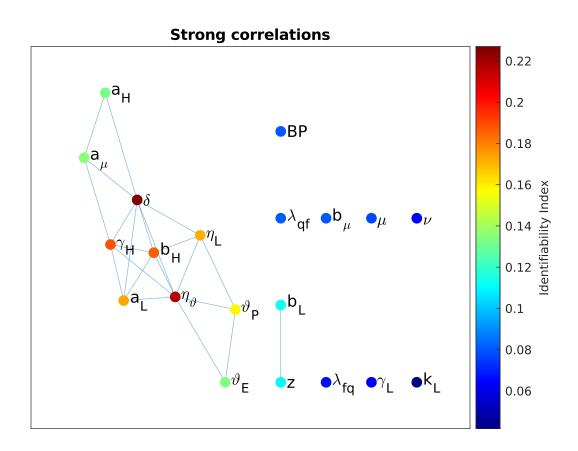
12.2. Estimated parameters with their intervals

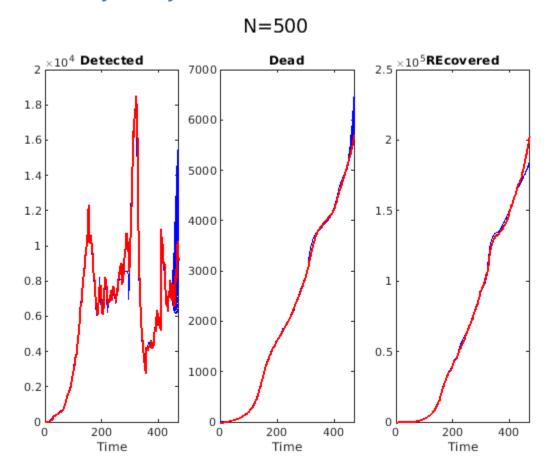
it was necessary to	Rango		Nominal	Mejor	Index
\lambda_{fq}	'0.1302'	'0.1602'	'0.1452'	'0.1243'	'0.0674'
\vartheta E	'0.8593'	'0.8966'	'0.8779'	'0.8582'	'0.134'
\gamma_L	'0.2979'	'0.3234'	'0.3107'	'0.3618'	'0.0633'
k L	'5.4061'	'5.5911'	'5.4986'	'5.6359'	'0.0417'
\lambda_{qf}	'0.2937'	'0.3358'	'0.3148'	'0.2339'	'0.081'
\delta	'0.1302'	'0.1374'	'0.1338'	'0.0313'	'0.227'
\eta L	'0.6559'	'0.6934'	'0.6747'	'0.9986'	'0.1715'
\vartheta_P	'0.0543'	'0.0964'	'0.0753'	'0.0001'	'0.1587'
\gamma_H	'0.5714'	'0.6096'	'0.5905'	'0.0125'	'0.1882'
Z	'24.5936'	'25.7389'	'25.1662'	'29.9678'	'0.1101'
\eta_\vartheta	'0.7149'	'0.7559'	'0.7354'	'0.9299'	'0.217'
a_L	'9.1891'	'9.7677'	'9.4784'	'1.9491'	'0.1734'
b_L	'13.6219'	'14.1805'	'13.9012'	'14.9384'	'0.1131'
a_\mu	'6.1702'	'6.5174'	'6.3438'	'10.445'	'0.1365'
b_\mu	'9.3384'	'9.7073'	'9.5229'	'7.4146'	'0.0807'
\mu	'0.5062'	'0.5355'	'0.5208'	'0.5812'	'0.0774'
a_H	'6.7213'	'7.1178'	'6.9195'	'13.0894'	'0.1322'
b_H	'9.0728'	'9.5858'	'9.3293'	'3.0405'	'0.1867'
\nu	'235.751'	'257.3223'	'246.5366'	'359.2538'	'0.0649'
BP	'436.694'	'438.3054'	'437.4997'	'422.5'	'0.0806'











Chapter 13. Extension number 13

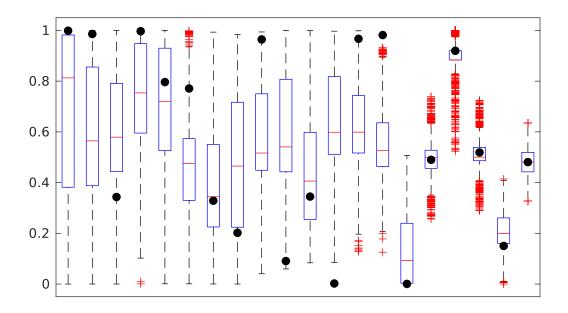
13.1. Basic information

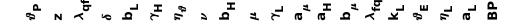
The extension to be validated consists of the time series from the data470 to the 494. The status of the validation is: COMPLETED.

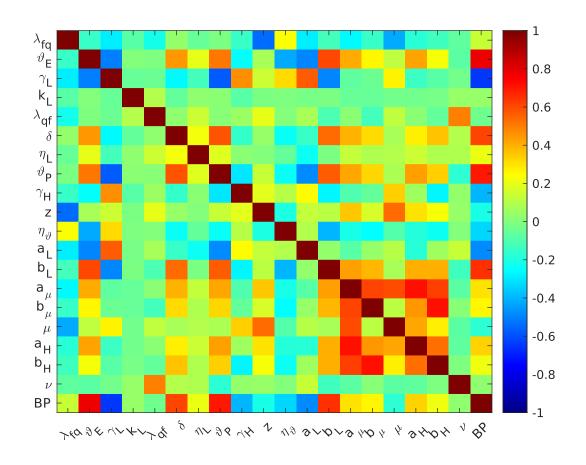
The number of estimations needed to perform the validation was 1000.

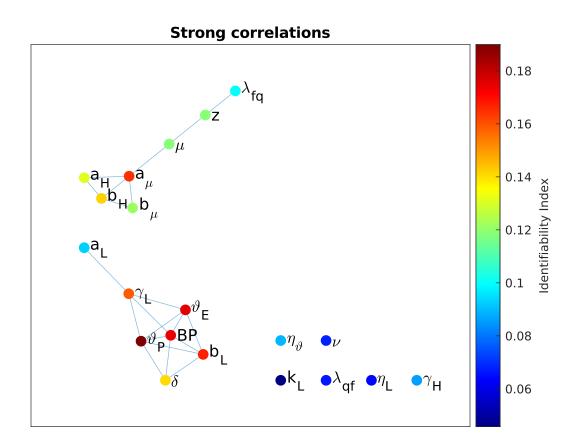
13.2. Estimated parameters with their intervals

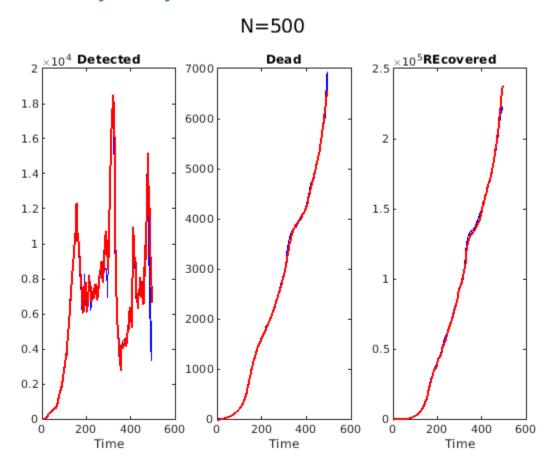
	Rango		Nominal	Mejor	Index
\lambda_{fq}	'0.0743'	'0.1124'	'0.0933'	'0.0005'	'0.1'
\vartheta_E	'0.8573'	'0.9096'	'0.8834'	'0.9196'	'0.1754'
\gamma_L	'0.3856'	'0.4262'	'0.4059'	'0.3449'	'0.1589'
k_L	'5.3797'	'5.59'	'5.4849'	'5.4081'	'0.0458'
\lambda_{qf}	'0.5598'	'0.5984'	'0.5791'	'0.3432'	'0.0671'
\delta	'0.1105'	'0.1156'	'0.113'	'0.1495'	'0.1405'
\eta_L	'0.4878'	'0.5131'	'0.5005'	'0.5189'	'0.0643'
\vartheta_P	'0.7866'	'0.8393'	'0.8129'	'0.9988'	'0.1899'
\gamma_H	'0.4587'	'0.493'	'0.4758'	'0.771'	'0.0862'
z	'16.2343'	'17.6363'	'16.9353'	'29.5764'	'0.1189'
\eta_\vartheta	'0.3253'	'0.3631'	'0.3442'	'0.3287'	'0.0893'
a_L	'3.708'	'3.8891'	'3.7985'	'3.1039'	'0.0926'
b_L	'10.7845'	'11.3452'	'11.0648'	'12.1477'	'0.167'
a_\mu	'9.1414'	'9.6163'	'9.3789'	'1.031'	'0.1651'
b_\mu	'8.1442'	'8.5871'	'8.3657'	'14.7436'	'0.1212'
\mu	'0.5219'	'0.5594'	'0.5406'	'0.0907'	'0.1188'
a_H	'9.1725'	'9.5957'	'9.3841'	'14.5369'	'0.1311'
b_H	'7.9713'	'8.4917'	'8.2315'	'14.502'	'0.1418'
\nu	'221.4282'	'243.6817'	'232.5549'	'101.0575'	'0.0682'
BP	'470.3544'	'470.6456'	'470.5'	'470.5'	'0.1745'











Chapter 14. Extension number 14

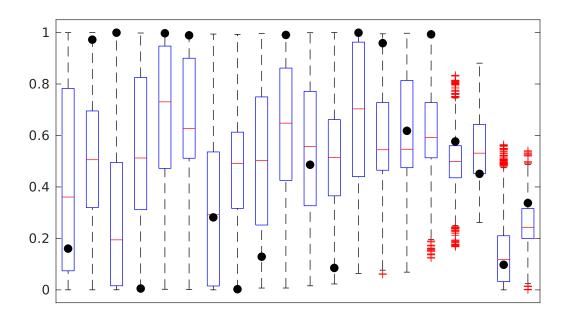
14.1. Basic information

The extension to be validated consists of the time series from the data494 to the 501. The status of the validation is: COMPLETED.

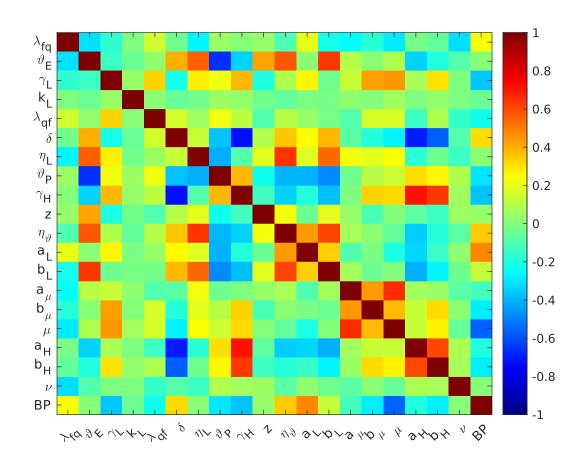
The number of estimations needed to perform the validation was 1000.

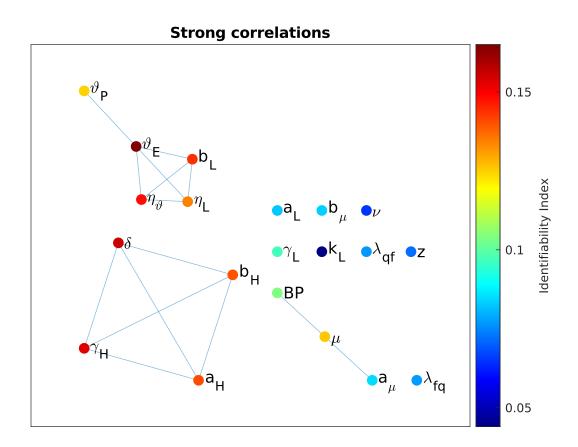
14.2. Estimated parameters with their intervals

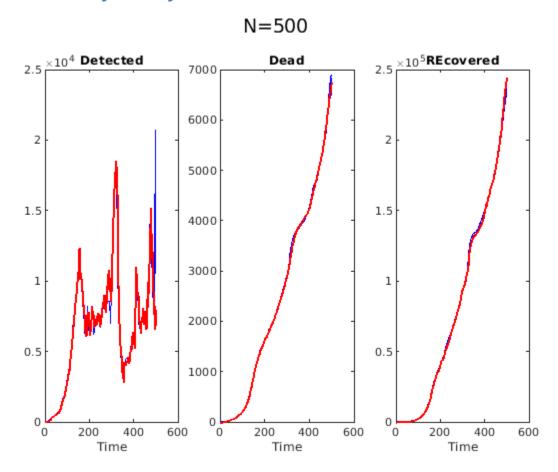
	Rango		Nominal	Mejor	Index
\lambda_{fq}	'0.1011'	'0.1336'	'0.1173'	'0.0974'	'0.0775'
\vartheta_E	'0.3326'	'0.3888'	'0.3607'	'0.1603'	'0.165'
\gamma_L	'0.6824'	'0.7242'	'0.7033'	'0.9992'	'0.0973'
k_L	'5.3787'	'5.5925'	'5.4856'	'6.1892'	'0.044'
\lambda_{qf}	'0.4833'	'0.5281'	'0.5057'	'0.9723'	'0.0769'
\delta	'0.0253'	'0.033'	'0.0292'	'0.1499'	'0.1556'
\eta_L	'0.5296'	'0.5633'	'0.5464'	'0.6181'	'0.1344'
\vartheta_P	'0.2687'	'0.3152'	'0.2919'	'0.2817'	'0.1245'
\gamma_H	'0.7091'	'0.7522'	'0.7306'	'0.9972'	'0.1534'
Z	'14.8926'	'15.9589'	'15.4258'	'2.558'	'0.072'
\eta_\vartheta	'0.4894'	'0.5355'	'0.5125'	'0.0052'	'0.1484'
a_L	'4.2393'	'4.5691'	'4.4042'	'5.7256'	'0.0825'
b_L	'8.4966'	'9.0902'	'8.7934'	'7.8079'	'0.144'
a_\mu	'9.0871'	'9.4942'	'9.2906'	'14.9019'	'0.0849'
b_\mu	'8.3926'	'8.8538'	'8.6232'	'14.4215'	'0.0836'
\mu	'0.6259'	'0.6697'	'0.6478'	'0.9906'	'0.1262'
a_H	'7.6195'	'8.1137'	'7.8666'	'1.038'	'0.1405'
b_H	'9.4872'	'10.0705'	'9.7788'	'14.8482'	'0.1397'
\nu	'239.9911'	'262.2018'	'251.0965'	'64.4265'	'0.0651'
ВР	'480.8891'	'481.4217'	'481.1554'	'479.4669'	'0.1044'











Chapter 15. Extension number 15

15.1. Basic information

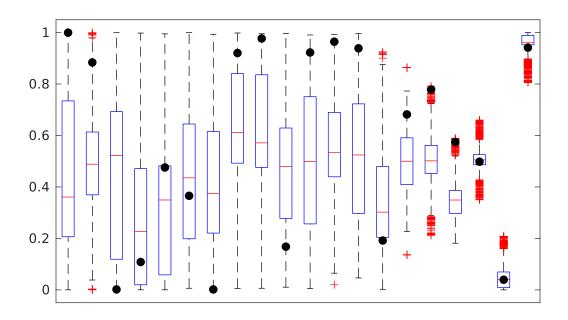
The extension to be validated consists of the time series from the data501 to the 515. The status of the validation is: COMPLETED.

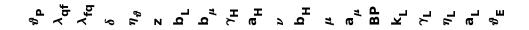
The number of estimations needed to perform the validation was 1000.

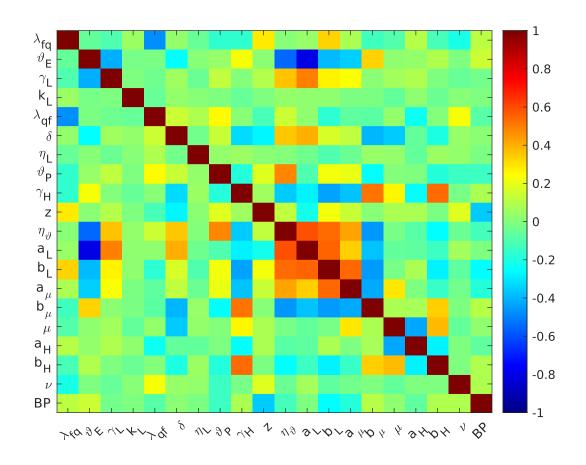
15.2. Estimated parameters with their intervals

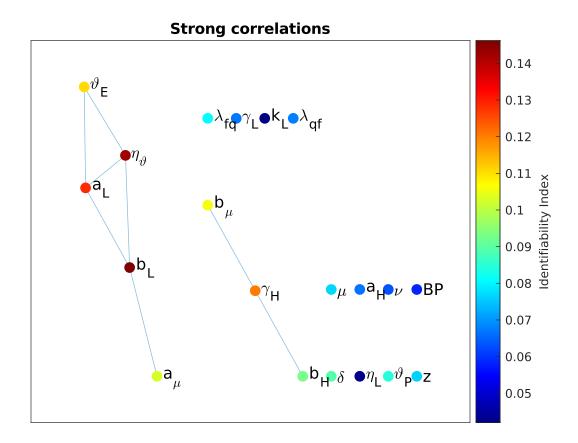
It was necessary to fix 0 parameters of 10 that could be fixed to complete validation.

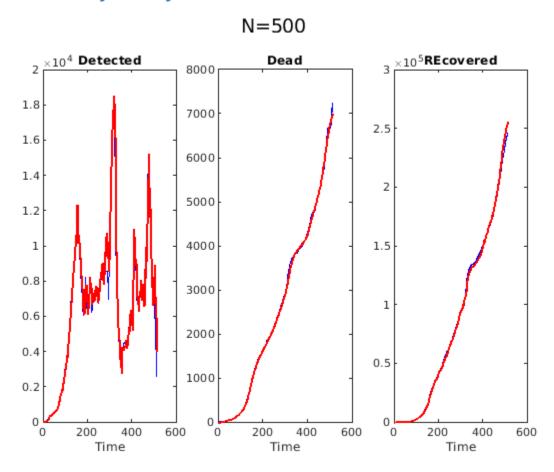
	Rango		Nominal	Mejor	Index
\lambda_{fq}	'0.4985'	'0.5453'	'0.5219'	'0.0017'	'0.081'
\vartheta_E	'0.9468'	'0.9741'	'0.9605'	'0.9415'	'0.1108'
\gamma_L	'0.3383'	'0.3601'	'0.3492'	'0.5745'	'0.0672'
k_L	'5.4152'	'5.6094'	'5.5123'	'8.0066'	'0.042'
\lambda_{qf}	'0.4737'	'0.503'	'0.4883'	'0.8838'	'0.0677'
\delta	'0.0307'	'0.0373'	'0.034'	'0.0163'	'0.0894'
\eta_L	'0.4965'	'0.5135'	'0.505'	'0.4982'	'0.0428'
\vartheta_P	'0.3363'	'0.3852'	'0.3607'	'0.9996'	'0.0846'
\gamma_H	'0.5531'	'0.5894'	'0.5712'	'0.977'	'0.1203'
z	'12.4405'	'13.6767'	'13.0586'	'10.9668'	'0.0765'
\eta_\vartheta	'0.3308'	'0.3678'	'0.3493'	'0.4755'	'0.1429'
a_L	'1.4417'	'1.6695'	'1.5556'	'1.5523'	'0.1284'
b_L	'5.9654'	'6.5252'	'6.2453'	'1.0238'	'0.1462'
a_\mu	'5.014'	'5.446'	'5.23'	'3.6851'	'0.1029'
b_\mu	'9.3152'	'9.8008'	'9.558'	'13.8854'	'0.1057'
\mu	'0.5023'	'0.5463'	'0.5243'	'0.9387'	'0.0766'
a_H	'7.4711'	'7.9324'	'7.7018'	'3.351'	'0.0666'
b_H	'8.2313'	'8.693'	'8.4621'	'14.5028'	'0.0932'
\nu	'238.0238'	'260.1808'	'249.1023'	'461.2842'	'0.0634'
ВР	'499.3952'	'499.6047'	'499.5'	'501.5'	'0.0585'











Chapter 16. Extension number 16

16.1. Basic information

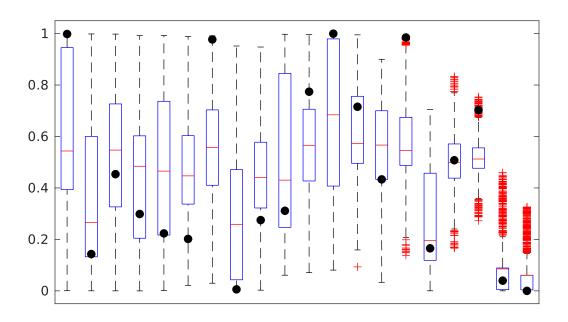
The extension to be validated consists of the time series from the data515 to the 526. The status of the validation is: COMPLETED.

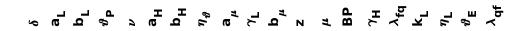
The number of estimations needed to perform the validation was 1000.

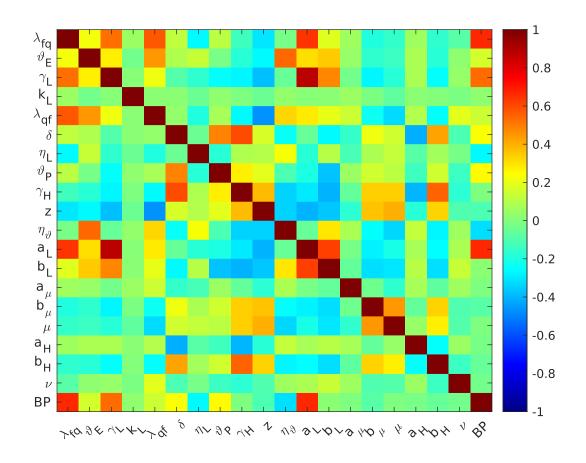
16.2. Estimated parameters with their intervals

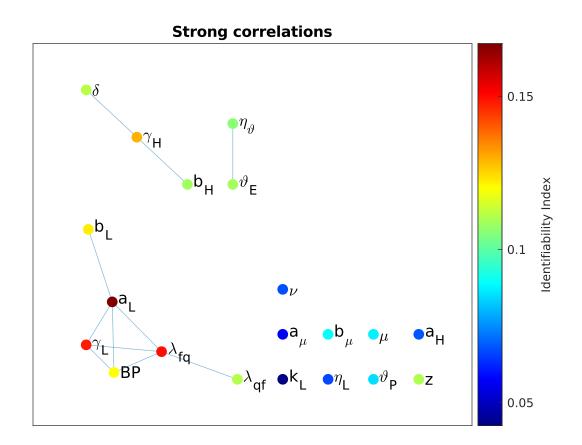
It was necessary to fix 0 parameters of 10 that could be fixed to complete validation.

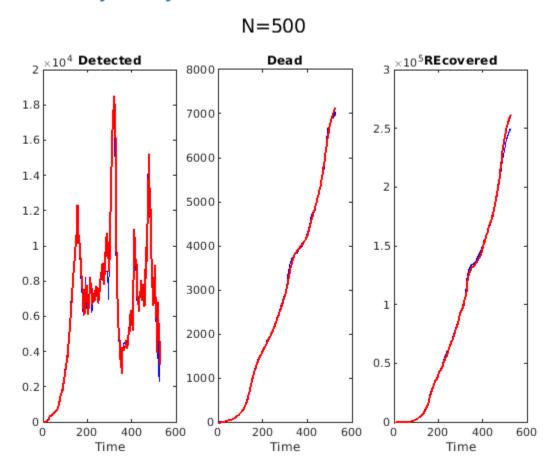
	Rango		Nominal	Mejor	Index
\lambda_{fq}	'0.1776'	'0.2149'	'0.1963'	'0.1654'	'0.1501'
\vartheta_E	'0.0593'	'0.1115'	'0.0854'	'0.0397'	'0.1091'
\gamma_L	'0.4069'	'0.454'	'0.4304'	'0.3113'	'0.1482'
k_L	'5.3949'	'5.6003'	'5.4976'	'5.5693'	'0.0425'
\lambda_{qf}	'0.0431'	'0.0783'	'0.0607'	'0.0001'	'0.111'
\delta	'0.0778'	'0.0853'	'0.0815'	'0.1498'	'0.1112'
\eta_L	'0.5014'	'0.5235'	'0.5124'	'0.7026'	'0.0668'
\vartheta_P	'0.4649'	'0.5035'	'0.4842'	'0.2986'	'0.0853'
\gamma_H	'0.5292'	'0.5614'	'0.5453'	'0.9848'	'0.1296'
z	'19.8514'	'21.2012'	'20.5263'	'29.9879'	'0.1106'
\eta_\vartheta	'0.2402'	'0.2772'	'0.2587'	'0.0059'	'0.106'
a_L	'4.3972'	'5.0533'	'4.7252'	'3.0043'	'0.1672'
b_L	'8.3363'	'8.9842'	'8.6602'	'7.35'	'0.1221'
a_\mu	'6.975'	'7.3605'	'7.1677'	'4.8504'	'0.0568'
b_\mu	'8.7006'	'9.1424'	'8.9215'	'11.8368'	'0.0896'
\mu	'0.5589'	'0.5873'	'0.5731'	'0.7156'	'0.0874'
a_H	'7.0598'	'7.4556'	'7.2577'	'3.8267'	'0.0683'
b_H	'8.5675'	'9.0452'	'8.8064'	'14.6803'	'0.1084'
\nu	'221.5317'	'243.9341'	'232.7329'	'111.6535'	'0.0677'
ВР	'509.3075'	'509.6925'	'509.5'	'507.4992'	'0.1204'











Chapter 17. Extension number 17

17.1. Basic information

The extension to be validated consists of the time series from the data526 to the 539. The status of the validation is: COMPLETED.

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

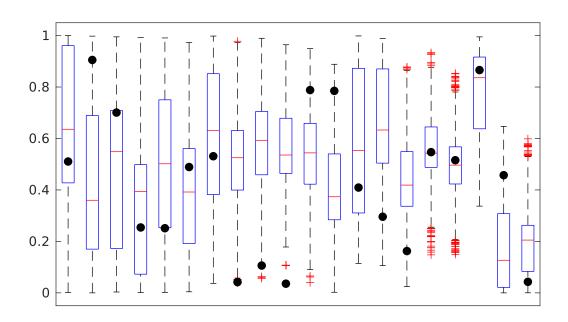
17.2. Estimated parameters with their intervals

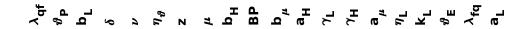
It was necessary to fix 0 parameters of 10 that could be fixed to complete validation.

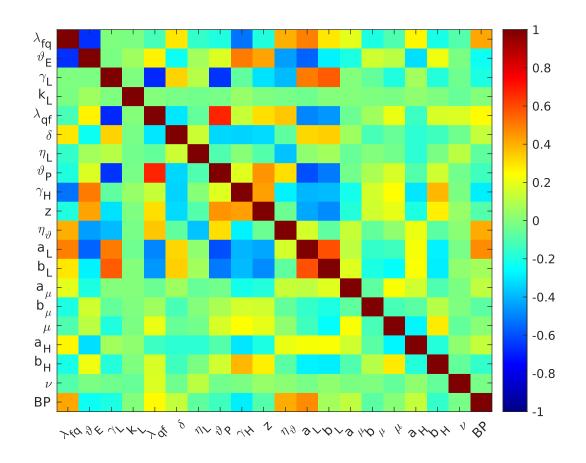
Due to a deviation from the median the CSB method was activated to obtain the

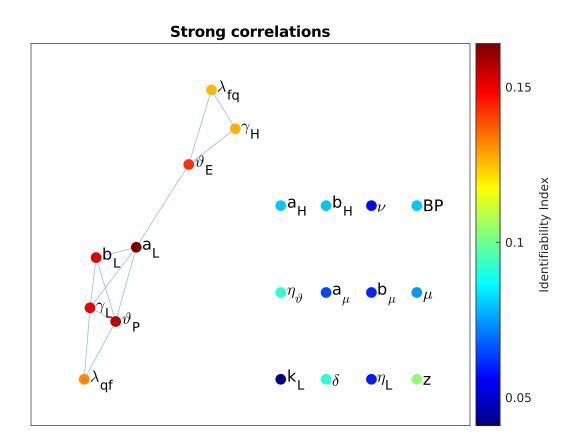
parameter intervals.

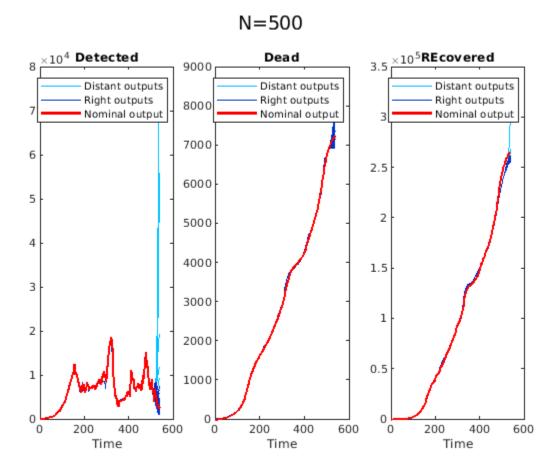
parameter interva	Rango		Nominal	Mejor	Index
\lambda_{fq}	'0.209'	'1'	'0.1269'	'0.4574'	'0.1261'
\vartheta_E	'0.025'	'1'	'0.8359'	'0.8659'	'0.1426'
\gamma_L	'0.2838'	'0.4493'	'0.5535'	'0.4093'	'0.1506'
k_L	'1.225'	'10'	'5.4683'	'5.6402'	'0.0409'
\lambda_{qf}	'0'	'0.6455'	'0.6358'	'0.5105'	'0.1318'
\delta	'0'	'0.0858'	'0.0591'	'0.0381'	'0.0918'
\eta_L	'0.025'	'1'	'0.543'	'0.5469'	'0.0592'
\vartheta_P	'0.2679'	'1'	'0.3599'	'0.9052'	'0.1565'
\gamma_H	'0'	'0.6657'	'0.6329'	'0.2959'	'0.1267'
Z	'0'	'27.648'	'18.9324'	'15.9304'	'0.1041'
\eta_\vartheta	'0.025'	'1'	'0.392'	'0.4891'	'0.0925'
a_L	'1.3576'	'4.9617'	'3.8729'	'1.6014'	'0.164'
b_L	'8.1615'	'15'	'8.6813'	'10.8092'	'0.1519'
a_\mu	'1'	'15'	'6.8642'	'3.2752'	'0.0648'
b_\mu	'1'	'15'	'8.6165'	'12.0342'	'0.0611'
\mu	'0'	'0.0939'	'0.5252'	'0.0417'	'0.0742'
a_H	'1.28'	'15'	'6.2334'	'11.9903'	'0.0801'
b_H	'1'	'13.6'	'9.3002'	'2.4855'	'0.0798'
\nu	'5.653'	'282.6499'	'250.8416'	'125.6222'	'0.0575'
ВР	'515'	'525.2856'	'522.5'	'515.5'	'0.0802'











Chapter 18. Extension number 18

18.1. Basic information

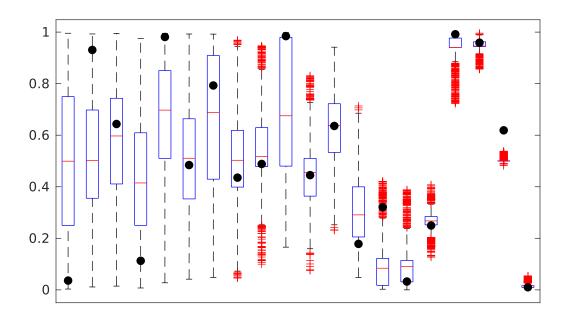
The extension to be validated consists of the time series from the data539 to the 539. The status of the validation is: COMPLETED.

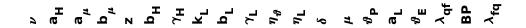
The number of estimations needed to perform the validation was 1000.

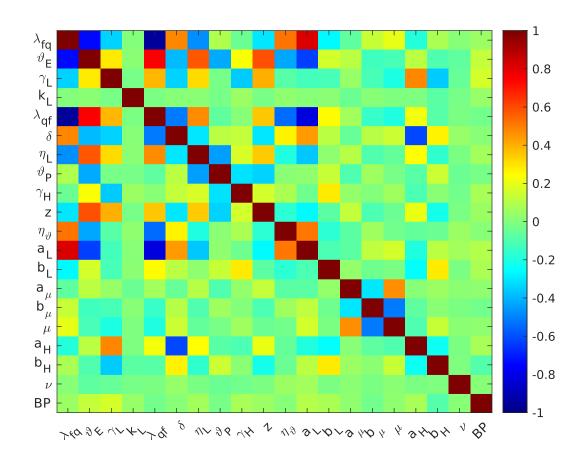
18.2. Estimated parameters with their intervals

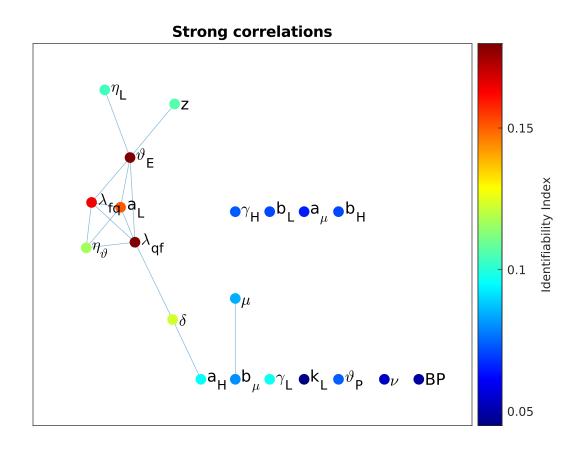
It was necessary to fix 0 parameters of 10 that could be fixed to complete validation.

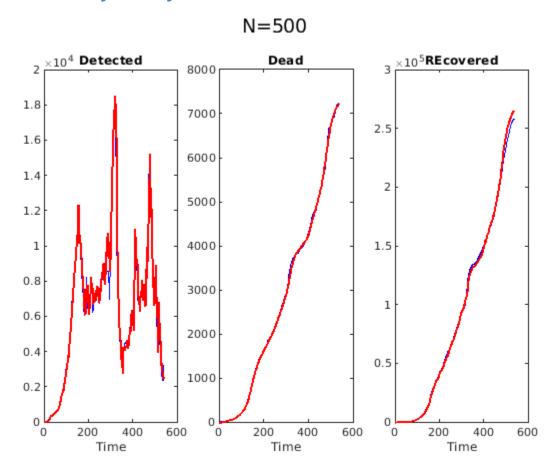
	Rango		Nominal	Mejor	Index
\lambda_{fq}	'0'	'0.0341'	'0.0163'	'0.0102'	'0.164'
\vartheta_E	'0.9221'	'0.9572'	'0.9397'	'0.9917'	'0.1798'
\gamma_L	'0.6555'	'0.6954'	'0.6754'	'0.9845'	'0.097'
k_L	'5.3944'	'5.6562'	'5.5253'	'4.9184'	'0.0449'
\lambda_{qf}	'0.9273'	'0.9644'	'0.9458'	'0.9589'	'0.1796'
\delta	'0.0414'	'0.046'	'0.0437'	'0.0268'	'0.1234'
\eta_L	'0.6264'	'0.6475'	'0.637'	'0.6359'	'0.1036'
\vartheta_P	'0.072'	'0.1092'	'0.0906'	'0.0324'	'0.0743'
\gamma_H	'0.6668'	'0.7091'	'0.6879'	'0.7929'	'0.0734'
z	'20.376'	'21.4653'	'20.9207'	'29.4319'	'0.1064'
\eta_\vartheta	'0.4426'	'0.4683'	'0.4554'	'0.4451'	'0.1171'
a_L	'4.5522'	'4.9382'	'4.7452'	'4.4957'	'0.151'
b_L	'8.0181'	'8.4548'	'8.2364'	'7.8381'	'0.0709'
a_\mu	'9.1098'	'9.6089'	'9.3593'	'10.0089'	'0.0653'
b_\mu	'6.5691'	'7.0462'	'6.8077'	'2.5781'	'0.0804'
\mu	'0.0678'	'0.1003'	'0.0841'	'0.3209'	'0.0846'
a_H	'7.7735'	'8.2648'	'8.0192'	'14.0309'	'0.0956'
b_H	'7.9301'	'8.3666'	'8.1483'	'7.7794'	'0.0712'
\nu	'238.4527'	'260.8232'	'249.6379'	'18.0359'	'0.0535'
ВР	'527.4708'	'527.5336'	'527.5022'	'527.8569'	'0.0489'











Chapter 19. Extension number 19

19.1. Basic information

The extension to be validated consists of the time series from the data539 to the 634. The status of the validation is: COMPLETED.

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

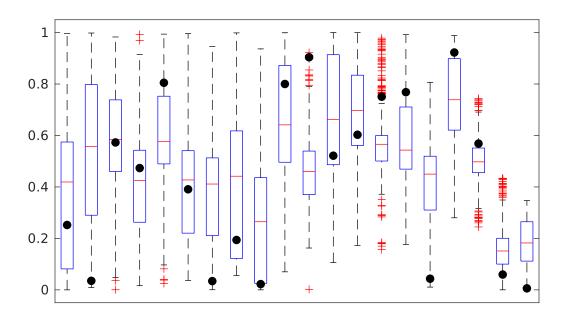
19.2. Estimated parameters with their intervals

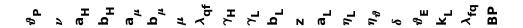
It was necessary to fix 0 parameters of 10 that could be fixed to complete validation.

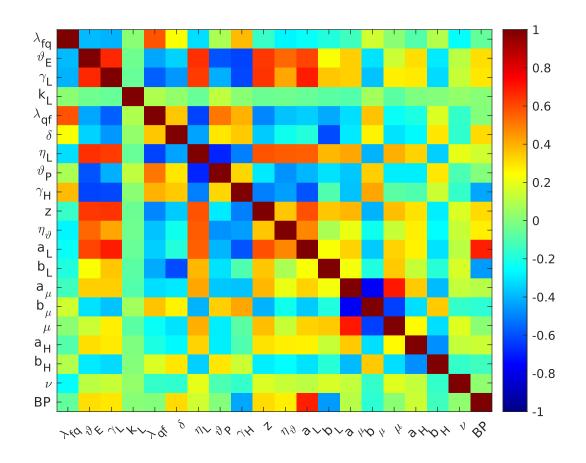
Due to a deviation from the median the CSB method was activated to obtain the

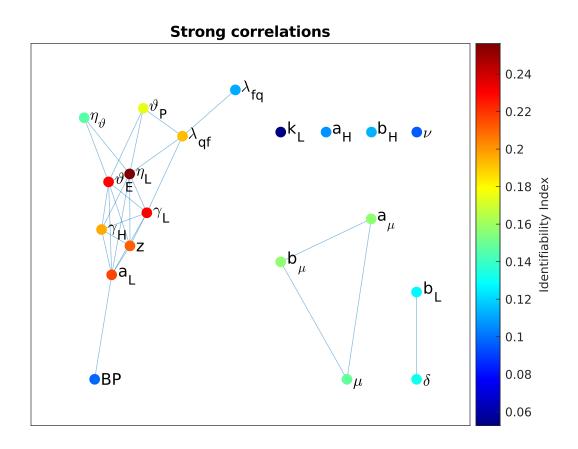
parameter intervals.

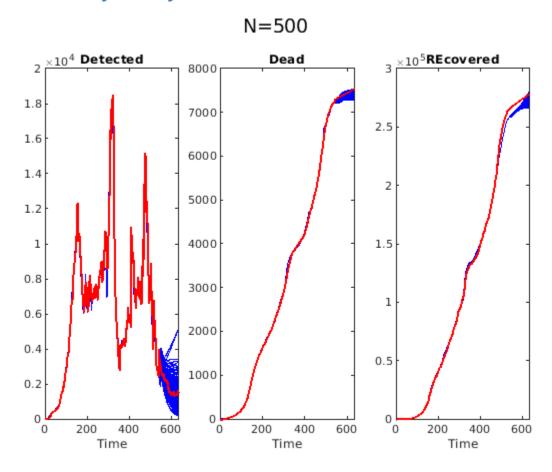
	Rango		Nominal	Mejor	Index
\lambda_{fq}	'0.0505'	'0.066'	'0.1516'	'0.0595'	'0.1121'
\vartheta_E	'0.9151'	'0.9246'	'0.738'	'0.9225'	'0.2297'
\gamma_L	'0.378'	'0.974'	'0.6413'	'0.8001'	'0.2306'
k_L	'1.1728'	'9.2166'	'5.478'	'6.117'	'0.0526'
\lambda_{qf}	'0.1742'	'0.2329'	'0.4417'	'0.1939'	'0.1921'
\delta	'0.0007'	'0.0132'	'0.0675'	'0.0065'	'0.132'
\eta_L	'0.57'	'0.9326'	'0.5658'	'0.7507'	'0.2562'
\vartheta_P	'0.2418'	'0.2854'	'0.4192'	'0.2521'	'0.1748'
\gamma_H	'0'	'0.0441'	'0.2648'	'0.0224'	'0.1961'
z	'14.4672'	'16.4514'	'19.8516'	'15.6432'	'0.2109'
\eta_\vartheta	'0.6214'	'0.7721'	'0.5432'	'0.7684'	'0.146'
a_L	'8.9686'	'12.4725'	'10.7541'	'9.4403'	'0.2169'
b_L	'9.0455'	'13.7165'	'7.4497'	'13.6582'	'0.1276'
a_\mu	'1.28'	'14.4512'	'9.0607'	'12.2684'	'0.1575'
b_\mu	'1'	'15'	'6.9817'	'6.4723'	'0.1569'
\mu	'0.0027'	'0.0678'	'0.4113'	'0.0341'	'0.1484'
a_H	'1.252'	'13.6'	'9.1837'	'9.0208'	'0.1071'
b_H	'1.7'	'15'	'6.9432'	'7.6279'	'0.1134'
\nu	'3.1712'	'33.3318'	'278.9644'	'17.5698'	'0.0957'
ВР	'539.2048'	'549.2412'	'554.5'	'539.5'	'0.0982'











Chapter 20. Extension number 20

20.1. Basic information

The extension to be validated consists of the time series from the data634 to the 737. The status of the validation is: COMPLETED.

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

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 intervals.

parameter interva	Rango		Nominal	Mejor	Index
\lambda_{fq}	'0.0155'	'0.0244'	'0.0212'	'0.0158'	'0.0672'
\vartheta_E	'0'	'0'	'0.0073'	'0'	'0.1689'
\gamma_L	'0'	'0.0001'	'0.3533'	'0.0001'	'0.1666'
k_L	'3.2681'	'6.6789'	'5.5291'	'4.6262'	'0.0936'
\lambda_{qf}	'0.001'	'0.0017'	'0.0004'	'0.0016'	'0.103'
\delta	'0.083'	'0.1062'	'0.0251'	'0.1047'	'0.1943'
\eta_L	'0.6745'	'0.8924'	'0.7913'	'0.8904'	'0.137'
\vartheta_P	'0'	'0'	'0.0005'	'0'	'0.0683'
\gamma_H	'0.283'	'0.4318'	'0.5008'	'0.2957'	'0.1529'
z	'7.0614'	'8.9837'	'11.4324'	'8.3261'	'0.2011'
\eta_\vartheta	'0.7322'	'0.8531'	'0.5164'	'0.7331'	'0.1429'
a_L	'3.6621'	'8.5204'	'5.4872'	'8.4883'	'0.2064'
b_L	'5.5204'	'10.1877'	'9.9147'	'5.7877'	'0.1581'
a_\mu	'11.4337'	'13.8929'	'7.9528'	'13.8084'	'0.1049'
b_\mu	'3.1625'	'6.833'	'9.2081'	'5.6436'	'0.0991'
\mu	'0.2297'	'0.6699'	'0.4438'	'0.6382'	'0.1136'
a_H	'1.288'	'1.4192'	'6.7024'	'1.4147'	'0.1326'
b_H	'1'	'1.5834'	'9.8633'	'1.0586'	'0.1273'
\nu	'0.0002'	'0.0006'	'5.9576'	'0.0005'	'0.1573'
ВР	'629.5'	'727'	'636.5'	'633.7696'	'0.1438'

