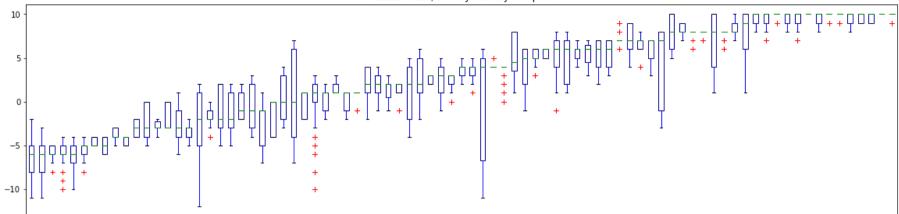
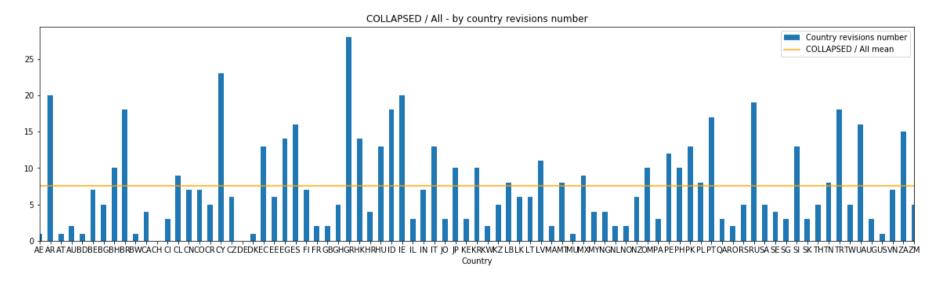
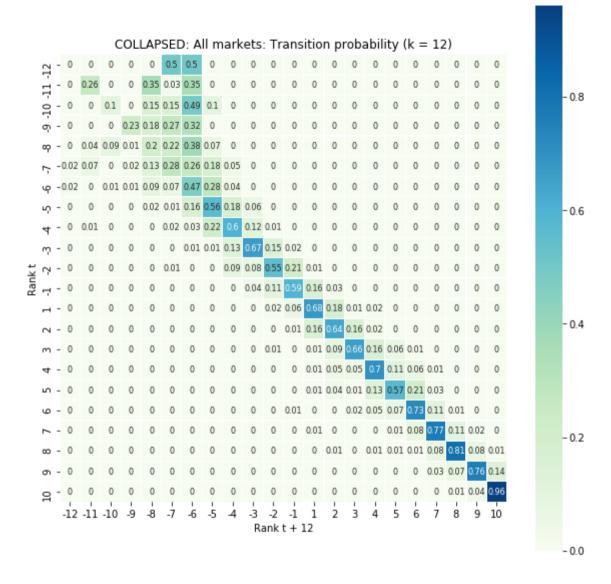


COLLAPSED / All - by country box plot

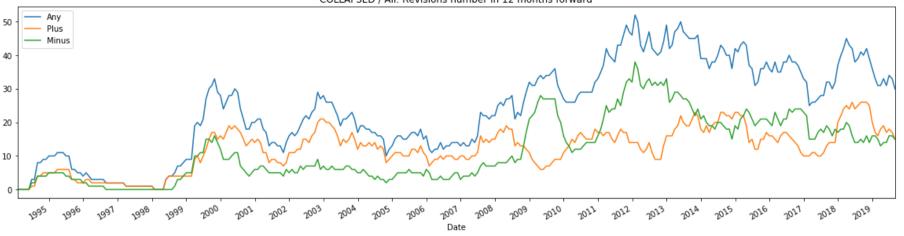


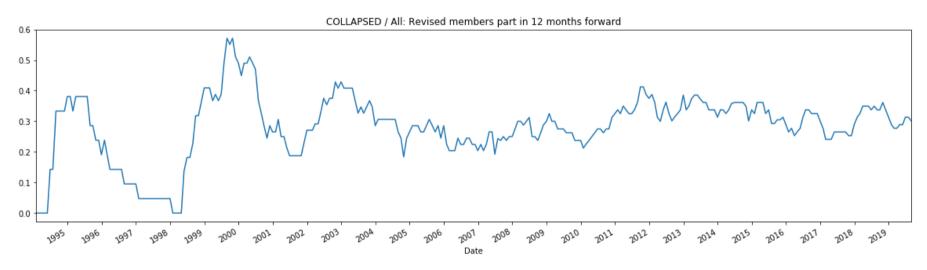
AR UALB PKE CZMUGGHNGKE JO LKRSBD TRVN ID CR TNBRCOPHEG CI PE CYHRRU IN KZMAROMXZA PABGBI HILMULV THLT PLGRBWNY SI OMMTSKKR IT IL CLCNCZTWHK SAEEPT JP BEKWAE ES QANZ IE FR SESGGB FI CHCANONILAU USAT DEDK

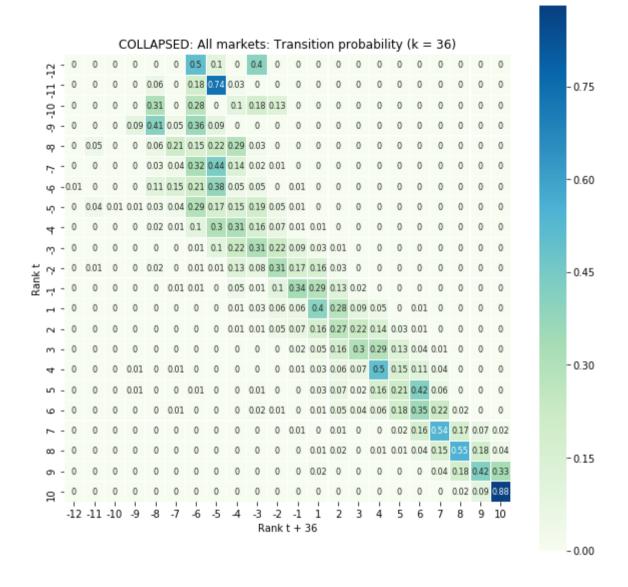


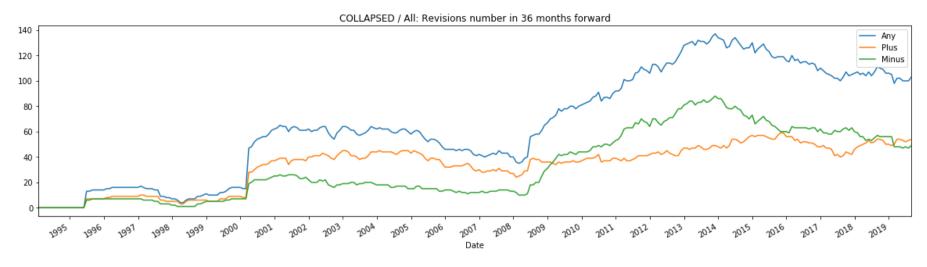


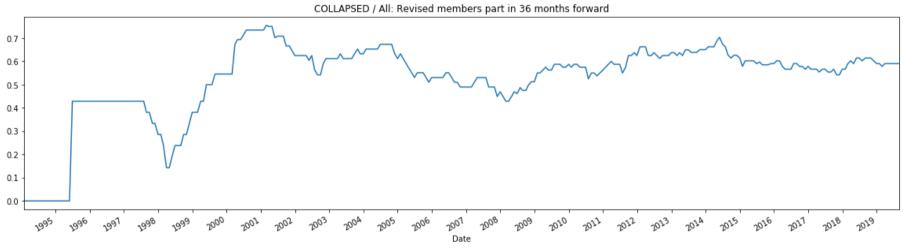


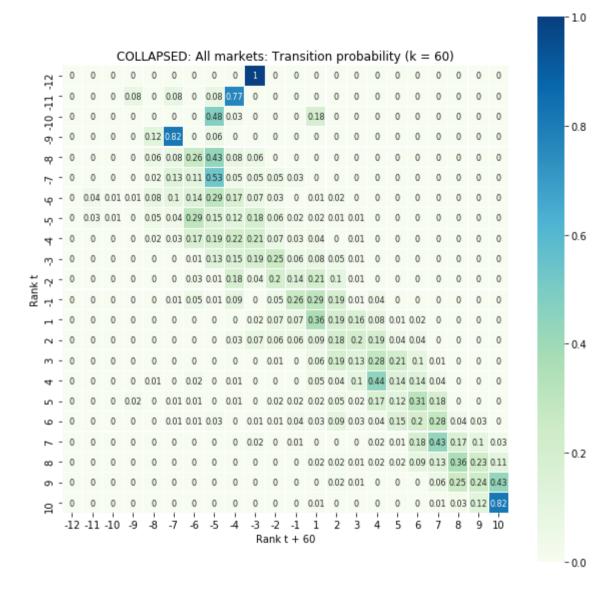




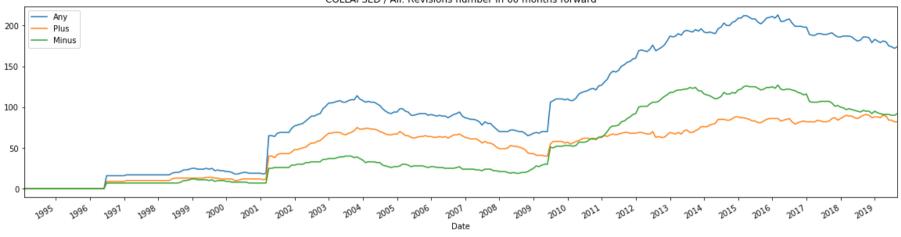


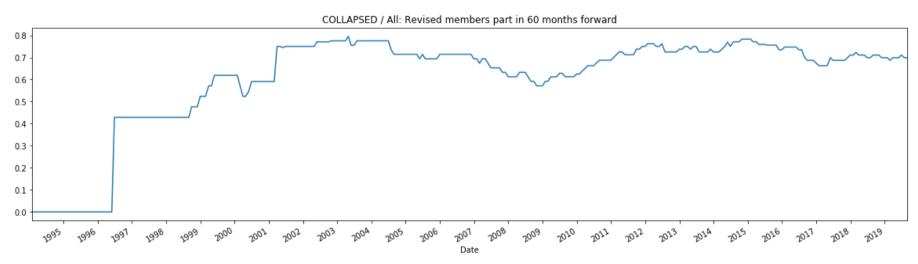




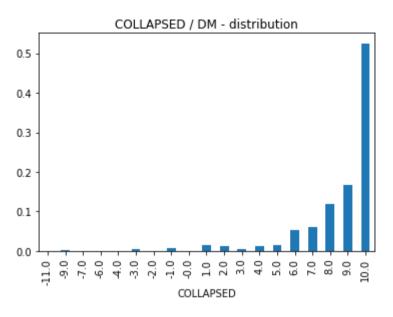


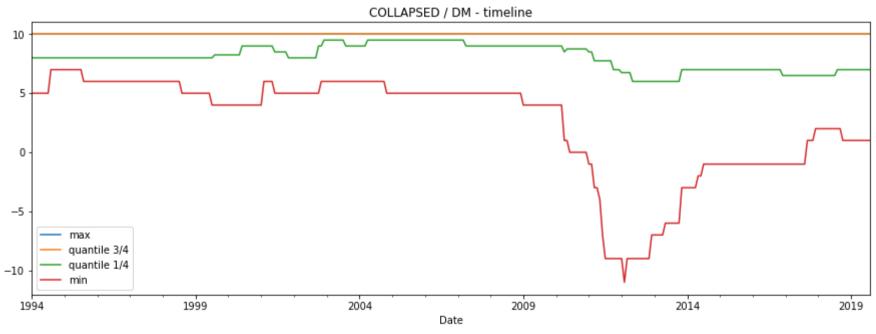


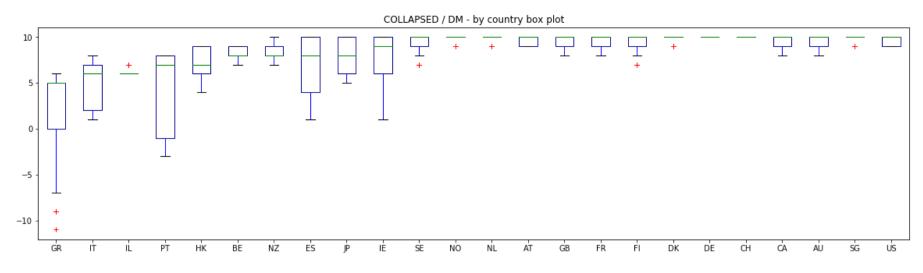


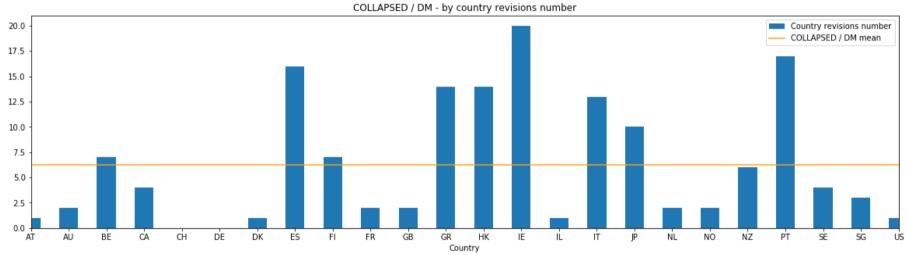


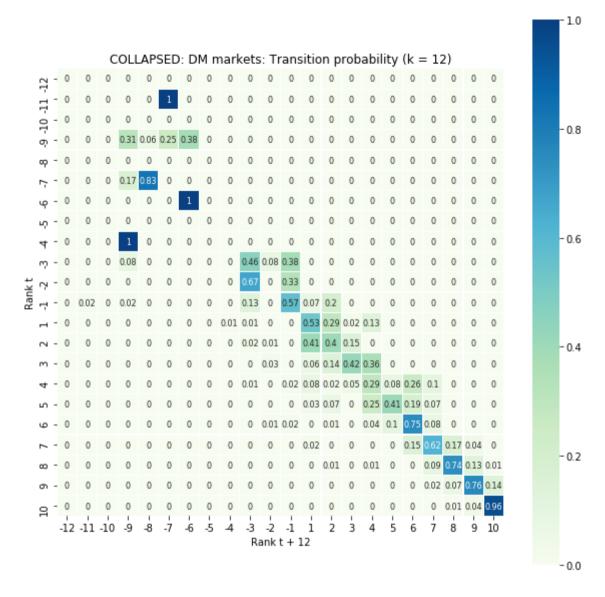
```
COLLAPSED: All markets (18461): Investment grade: 72.18% (13325)
COLLAPSED: All markets (18461): Non-investment grade: 25.25% (4662)
COLLAPSED: All markets (18461): Any revisions frequency: 3.42% (631)
COLLAPSED: All markets (18461): Positive revisions frequency: 1.73% (320)
COLLAPSED: All markets (18461): Negative revisions frequency: 1.68% (311)
COLLAPSED: All markets (18461): Average revisions number for country: 7.6
COLLAPSED: All markets (18461): Average stable rating period lentgh (months): 25.86
COLLAPSED: All markets: Mean revision absolute step: 1.28
COLLAPSED: All markets: Mean revision positive step: 1.24
COLLAPSED : All markets: Mean revision negative step: -1.31
COLLAPSED: All markets (308 datepoints): Datepoints with at least one revision in 12 months forward: 97.08% (299
COLLAPSED: All markets (308 datepoints): Datepoints with no revisions in 12 months forward: 2.92% (9)
COLLAPSED: All markets: Mean any revisions number in 12 months forward from datepoint: 23.9
COLLAPSED: All markets: Mean positive revisions number in 12 months forward from datepoint: 12.15
COLLAPSED: All markets: Mean negative revisions number in 12 months forward from datepoint: 11.75
COLLAPSED: All markets: Mean part of members revised in 12 months forward from market: 28.37%
COLLAPSED: All markets (308 datepoints): Datepoints with at least one revision in 36 months forward: 94.48% (291
COLLAPSED: All markets (308 datepoints): Datepoints with no revisions in 36 months forward: 5.52% (17)
COLLAPSED: All markets: Mean any revisions number in 36 months forward from datepoint: 66.15
COLLAPSED: All markets: Mean positive revisions number in 36 months forward from datepoint: 33.28
COLLAPSED: All markets: Mean negative revisions number in 36 months forward from datepoint: 32.87
COLLAPSED: All markets: Mean part of members revised in 36 months forward from market: 52.65%
COLLAPSED: All markets (308 datepoints): Datepoints with at least one revision in 60 months forward: 90.58% (279
COLLAPSED: All markets (308 datepoints): Datepoints with no revisions in 60 months forward: 9.42% (29)
COLLAPSED: All markets: Mean any revisions number in 60 months forward from datepoint: 101.41
COLLAPSED: All markets: Mean positive revisions number in 60 months forward from datepoint: 51.21
COLLAPSED: All markets: Mean negative revisions number in 60 months forward from datepoint: 50.2
COLLAPSED: All markets: Mean part of members revised in 60 months forward from market: 60.64%
```



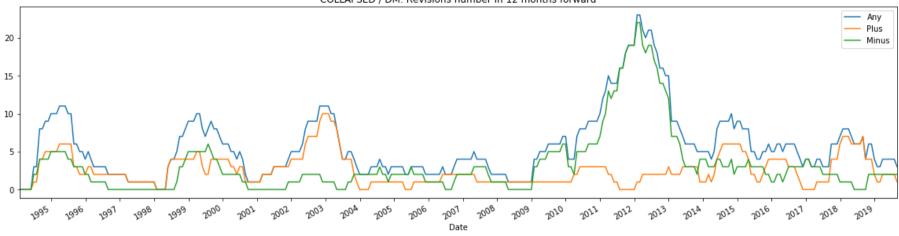


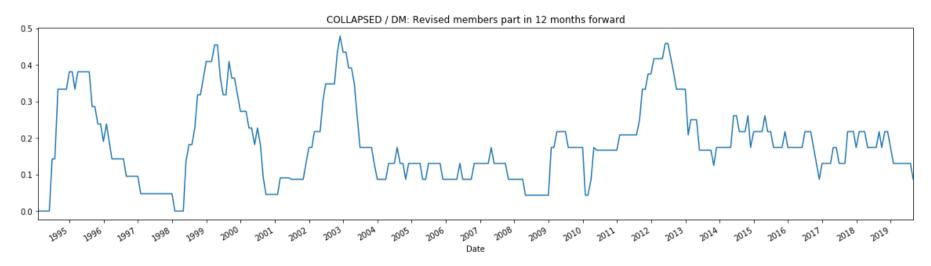


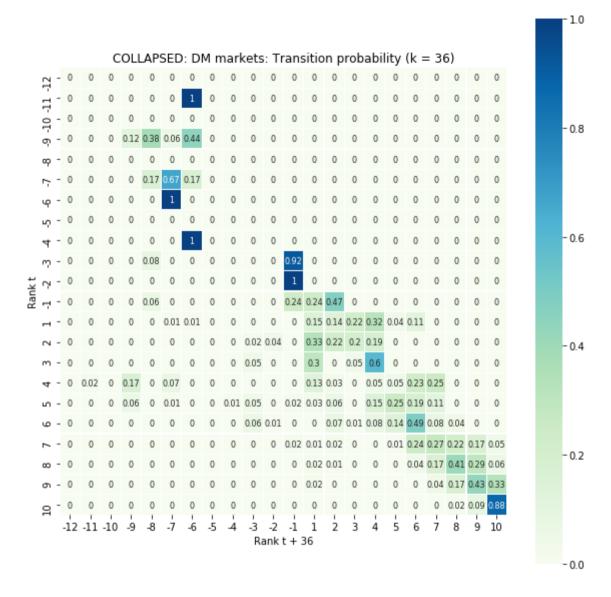


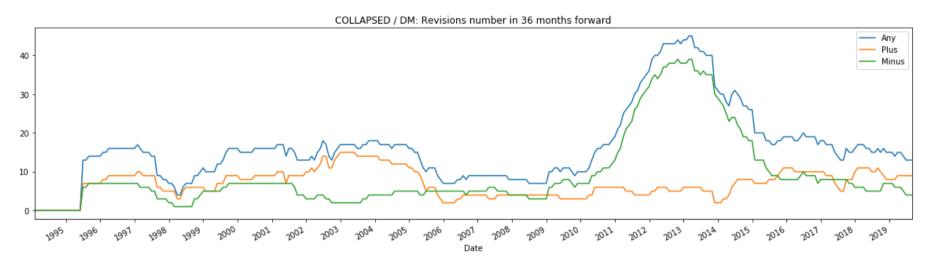


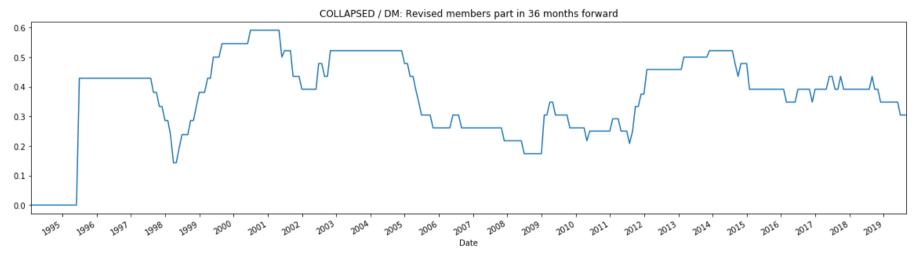


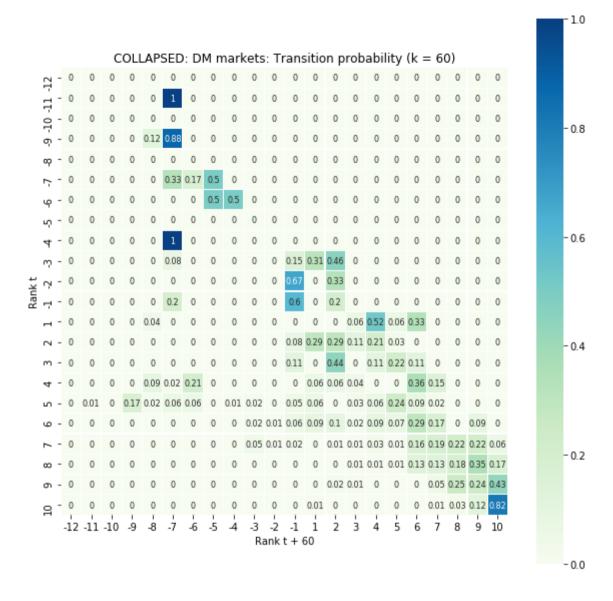


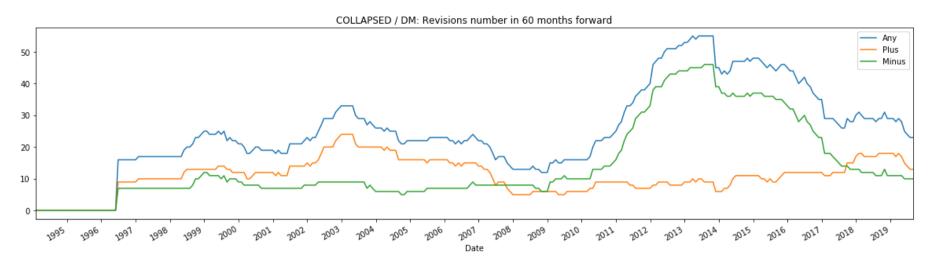


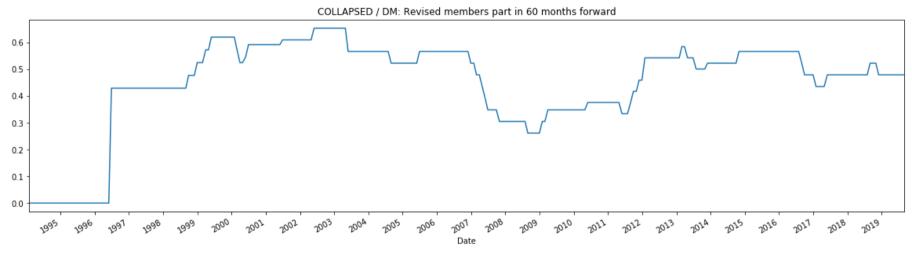




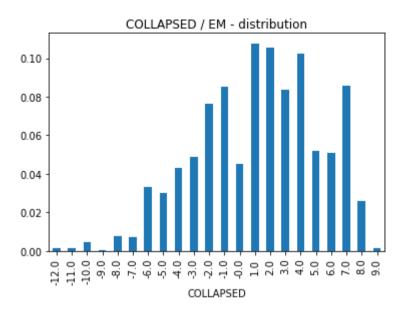


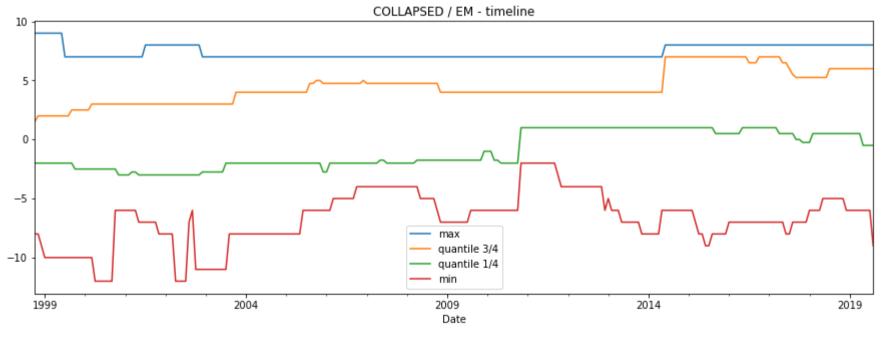


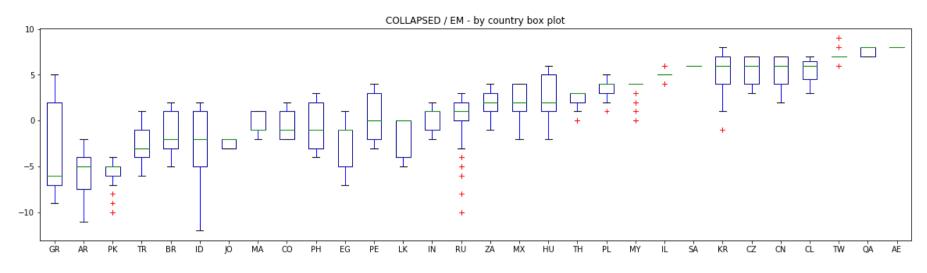


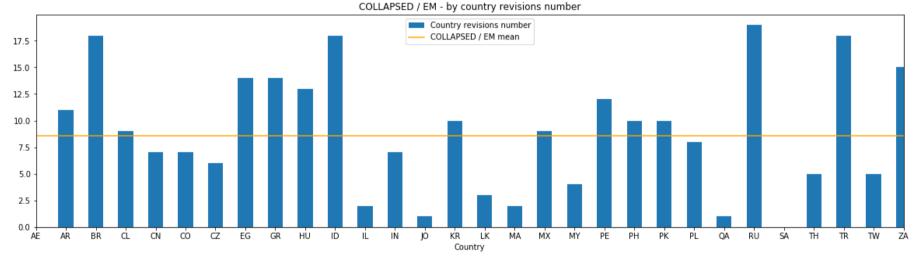


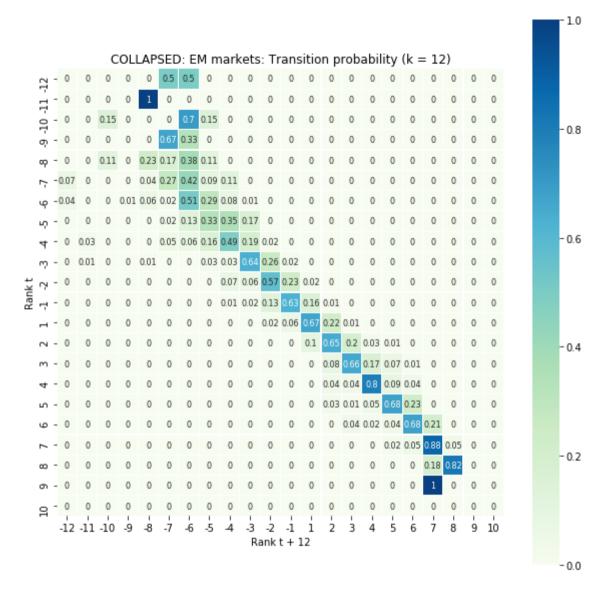
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COLLAPSED: DM markets (6990): Investment grade: 98.35% (6875)
COLLAPSED: DM markets (6990): Non-investment grade: 1.55% (108)
COLLAPSED: DM markets (6990): Any revisions frequency: 2.13% (149)
COLLAPSED: DM markets (6990): Positive revisions frequency: 0.94% (66)
COLLAPSED: DM markets (6990): Negative revisions frequency: 1.19% (83)
COLLAPSED: DM markets (6990): Average revisions number for country: 6.21
COLLAPSED: DM markets (6990): Average stable rating period lentgh (months): 40.56
COLLAPSED: DM markets: Mean revision absolute step: 1.18
COLLAPSED: DM markets: Mean revision positive step: 1.14
COLLAPSED: DM markets: Mean revision negative step: -1.22
COLLAPSED: DM markets (308 datepoints): Datepoints with at least one revision in 12 months forward: 97.08% (299)
COLLAPSED: DM markets (308 datepoints): Datepoints with no revisions in 12 months forward: 2.92% (9)
COLLAPSED: DM markets: Mean any revisions number in 12 months forward from datepoint: 5.77
COLLAPSED: DM markets: Mean positive revisions number in 12 months forward from datepoint: 2.55
COLLAPSED: DM markets: Mean negative revisions number in 12 months forward from datepoint: 3.21
COLLAPSED: DM markets: Mean part of members revised in 12 months forward from market: 18.49%
COLLAPSED: DM markets (308 datepoints): Datepoints with at least one revision in 36 months forward: 94.48% (291)
COLLAPSED: DM markets (308 datepoints): Datepoints with no revisions in 36 months forward: 5.52% (17)
COLLAPSED: DM markets: Mean any revisions number in 36 months forward from datepoint: 16.16
COLLAPSED: DM markets: Mean positive revisions number in 36 months forward from datepoint: 6.98
COLLAPSED: DM markets: Mean negative revisions number in 36 months forward from datepoint: 9.18
COLLAPSED: DM markets: Mean part of members revised in 36 months forward from market: 37.05%
COLLAPSED: DM markets (308 datepoints): Datepoints with at least one revision in 60 months forward: 90.58% (279)
COLLAPSED: DM markets (308 datepoints): Datepoints with no revisions in 60 months forward: 9.42% (29)
COLLAPSED: DM markets: Mean any revisions number in 60 months forward from datepoint: 25.19
COLLAPSED: DM markets: Mean positive revisions number in 60 months forward from datepoint: 10.93
COLLAPSED: DM markets: Mean negative revisions number in 60 months forward from datepoint: 14.25
COLLAPSED: DM markets: Mean part of members revised in 60 months forward from market: 44.90%
```



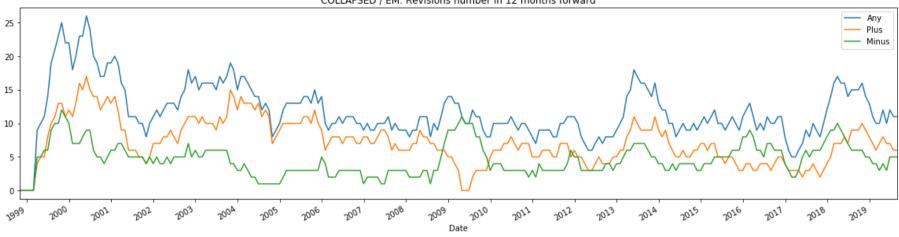


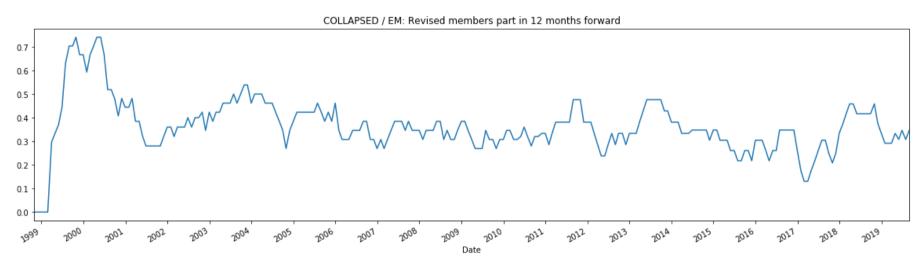


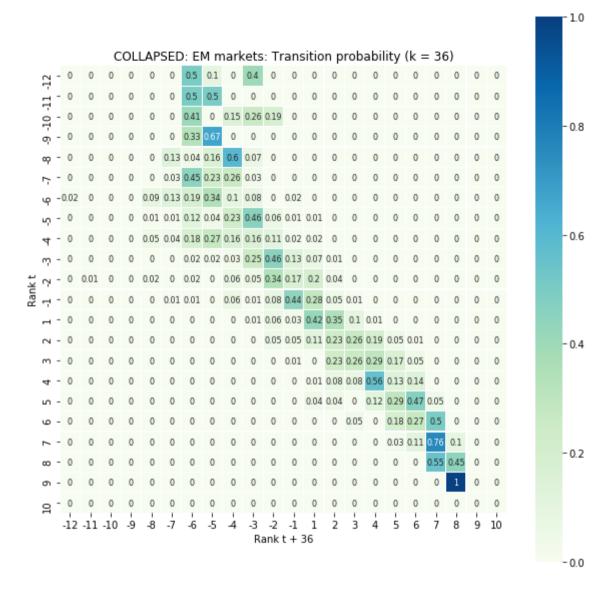


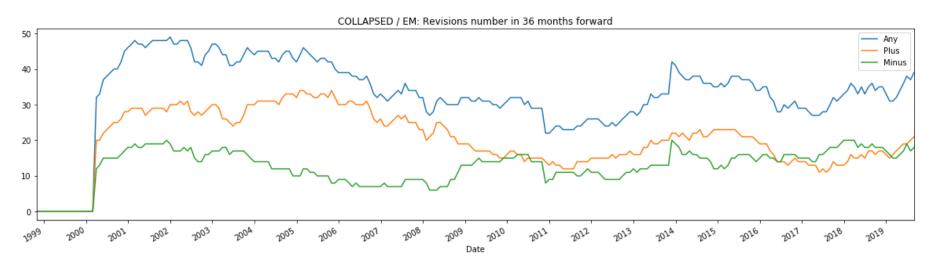


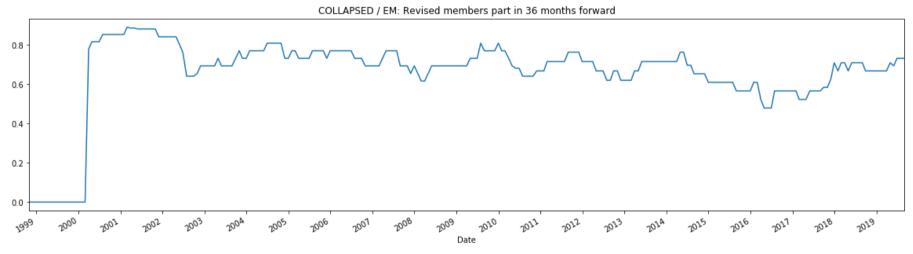


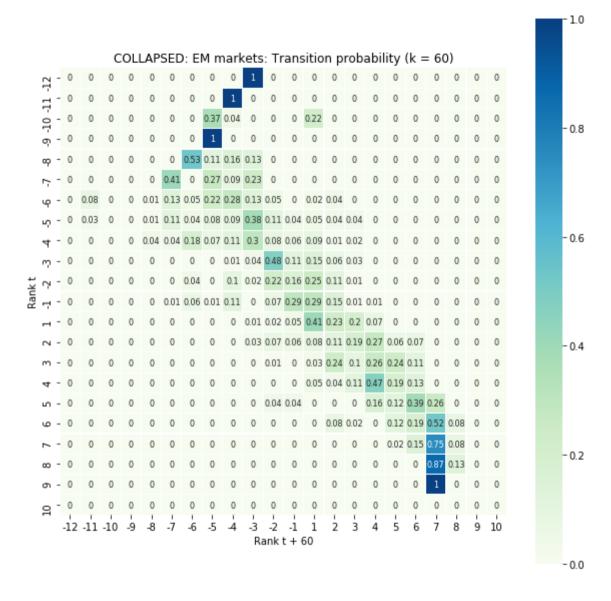


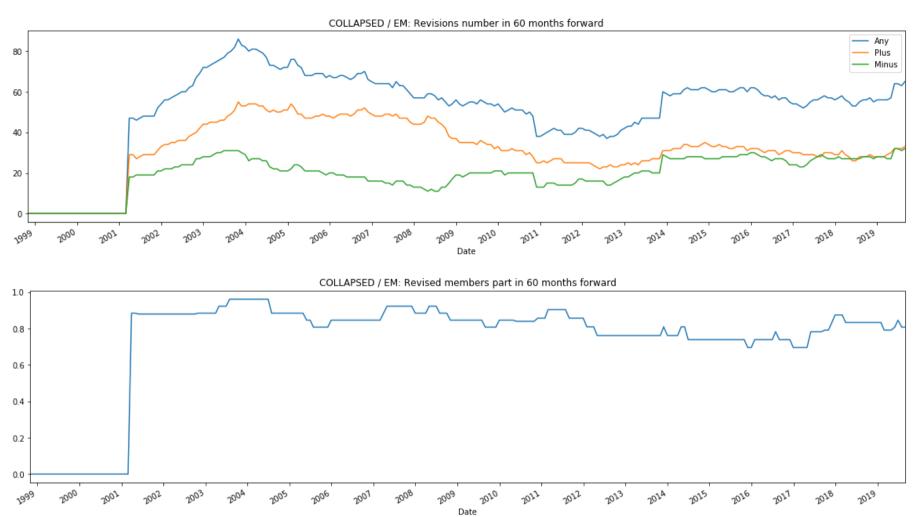




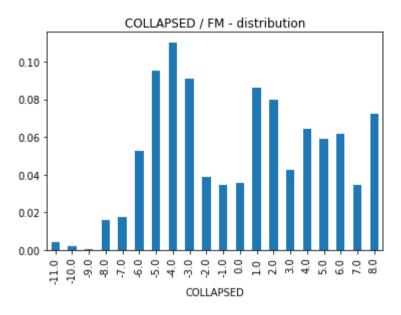


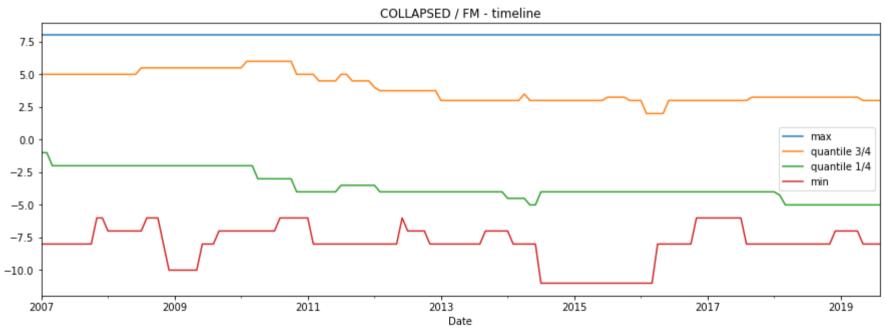




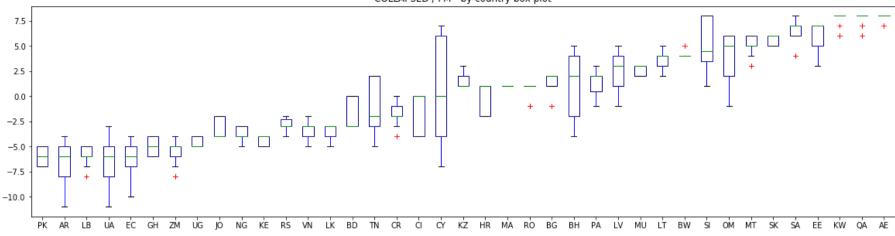


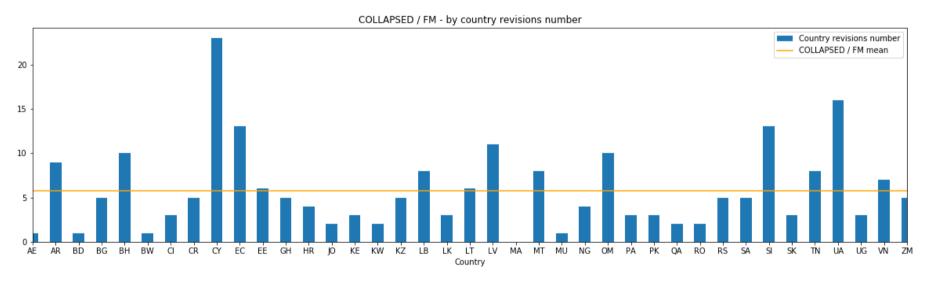
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COLLAPSED: EM markets (6160): Investment grade: 61.46% (3786)
COLLAPSED: EM markets (6160): Non-investment grade: 34.03% (2096)
COLLAPSED: EM markets (6160): Any revisions frequency: 4.19% (258)
COLLAPSED: EM markets (6160): Positive revisions frequency: 2.55% (157)
COLLAPSED: EM markets (6160): Negative revisions frequency: 1.64% (101)
COLLAPSED: EM markets (6160): Average revisions number for country: 8.6
COLLAPSED: EM markets (6160): Average stable rating period lentgh (months): 21.87
COLLAPSED : EM markets: Mean revision absolute step: 1.32
COLLAPSED: EM markets: Mean revision positive step: 1.26
COLLAPSED : EM markets: Mean revision negative step: -1.41
COLLAPSED: EM markets (251 datepoints): Datepoints with at least one revision in 12 months forward: 98.01% (246)
COLLAPSED : EM markets ( 251 datepoints) : Datepoints with no revisions in 12 months forward: 1.99% ( 5 )
COLLAPSED: EM markets: Mean any revisions number in 12 months forward from datepoint: 11.83
COLLAPSED: EM markets: Mean positive revisions number in 12 months forward from datepoint: 7.21
COLLAPSED: EM markets: Mean negative revisions number in 12 months forward from datepoint: 4.62
COLLAPSED: EM markets: Mean part of members revised in 12 months forward from market: 36.41%
COLLAPSED: EM markets (251 datepoints): Datepoints with at least one revision in 36 months forward: 93.23% (234)
COLLAPSED: EM markets (251 datepoints): Datepoints with no revisions in 36 months forward: 6.77% (17)
COLLAPSED: EM markets: Mean any revisions number in 36 months forward from datepoint: 32.94
COLLAPSED: EM markets: Mean positive revisions number in 36 months forward from datepoint: 20.28
COLLAPSED: EM markets: Mean negative revisions number in 36 months forward from datepoint: 12.66
COLLAPSED: EM markets: Mean part of members revised in 36 months forward from market: 65.73%
COLLAPSED: EM markets (251 datepoints): Datepoints with at least one revision in 60 months forward: 88.45% (222)
COLLAPSED: EM markets (251 datepoints): Datepoints with no revisions in 60 months forward: 11.55% (29)
COLLAPSED: EM markets: Mean any revisions number in 60 months forward from datepoint: 51.31
COLLAPSED: EM markets: Mean positive revisions number in 60 months forward from datepoint: 31.78
COLLAPSED: EM markets: Mean negative revisions number in 60 months forward from datepoint: 19.53
COLLAPSED: EM markets: Mean part of members revised in 60 months forward from market: 73.73%
```

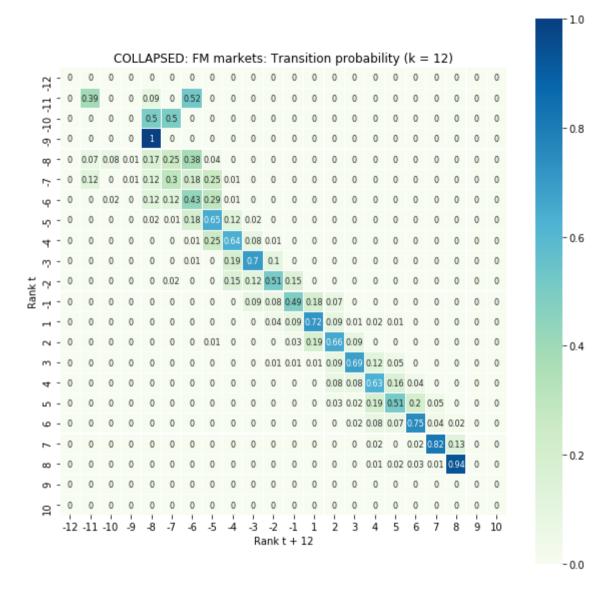


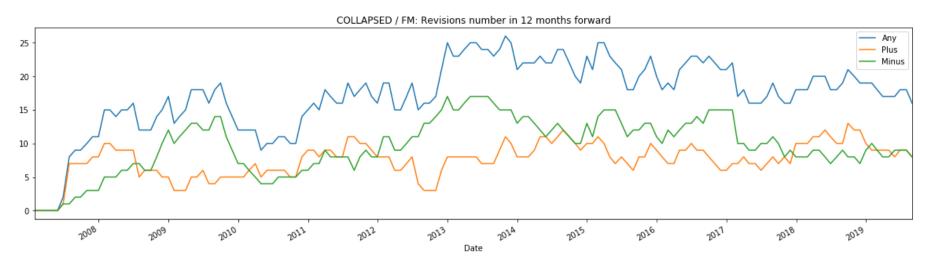




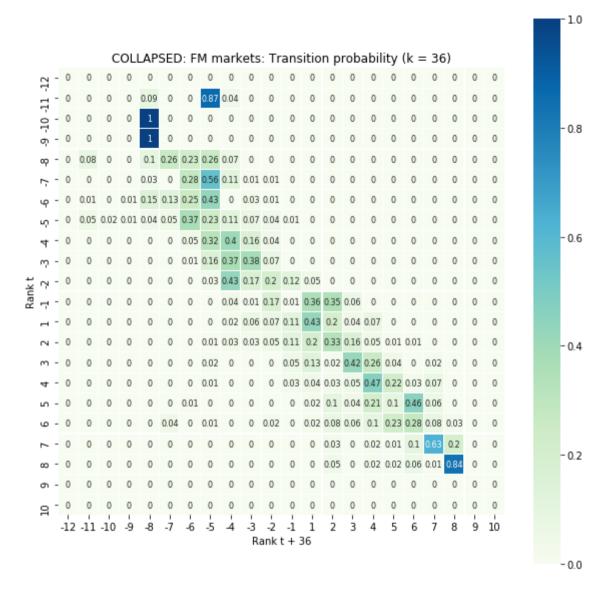






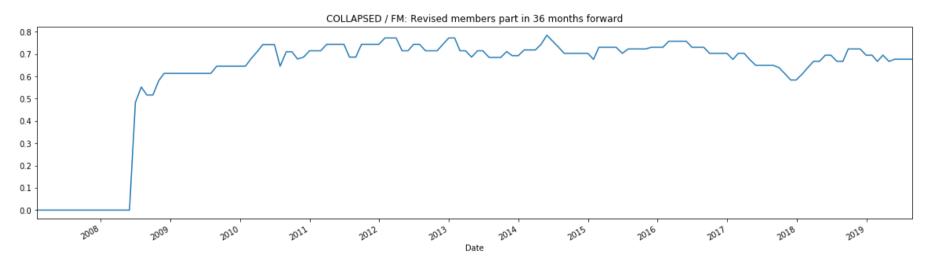


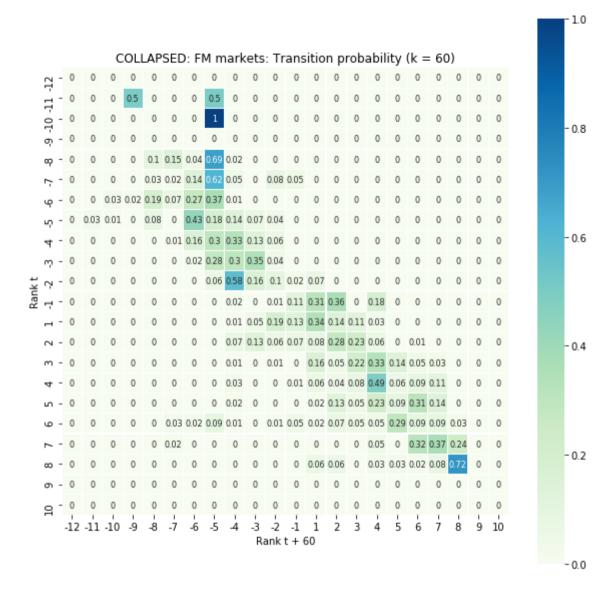


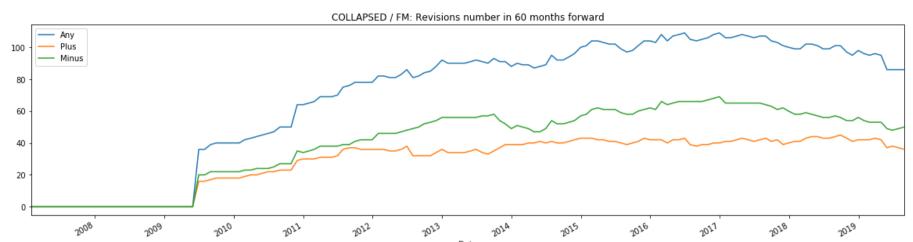






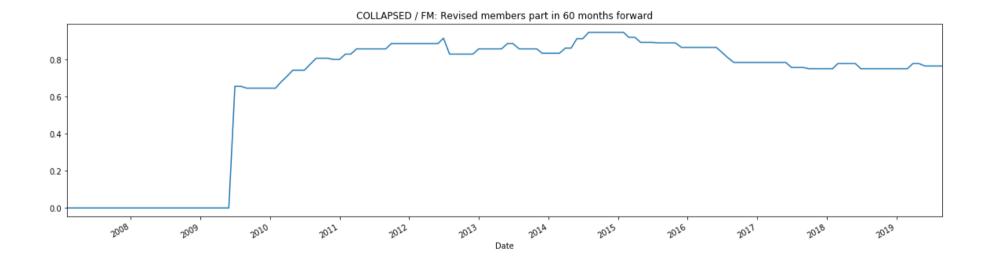






Date

2012



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COLLAPSED: FM markets (5311): Investment grade: 50.16% (2664)
         COLLAPSED: FM markets (5311): Non-investment grade: 46.28% (2458)
         COLLAPSED: FM markets (5311): Any revisions frequency: 4.22% (224)
         COLLAPSED: FM markets (5311): Positive revisions frequency: 1.83% (97)
         COLLAPSED: FM markets (5311): Negative revisions frequency: 2.39% (127)
         COLLAPSED: FM markets (5311): Average revisions number for country: 5.74
         COLLAPSED: FM markets (5311): Average stable rating period lentgh (months): 20.37
         COLLAPSED: FM markets: Mean revision absolute step: 1.29
         COLLAPSED: FM markets: Mean revision positive step: 1.29
         COLLAPSED: FM markets: Mean revision negative step: -1.3
         COLLAPSED: FM markets (152 datepoints): Datepoints with at least one revision in 12 months forward: 96.71% (147)
         COLLAPSED: FM markets (152 datepoints): Datepoints with no revisions in 12 months forward: 3.29% (5)
         COLLAPSED: FM markets: Mean any revisions number in 12 months forward from datepoint: 17.22
         COLLAPSED: FM markets: Mean positive revisions number in 12 months forward from datepoint: 7.55
         COLLAPSED: FM markets: Mean negative revisions number in 12 months forward from datepoint: 9.66
         COLLAPSED: FM markets: Mean part of members revised in 12 months forward from market: 35.48%
         COLLAPSED: FM markets (152 datepoints): Datepoints with at least one revision in 36 months forward: 88.82% (135)
         COLLAPSED: FM markets (152 datepoints): Datepoints with no revisions in 36 months forward: 11.18% (17)
         COLLAPSED: FM markets: Mean any revisions number in 36 months forward from datepoint: 46.88
         COLLAPSED: FM markets: Mean positive revisions number in 36 months forward from datepoint: 19.79
         COLLAPSED: FM markets: Mean negative revisions number in 36 months forward from datepoint: 27.09
         COLLAPSED: FM markets: Mean part of members revised in 36 months forward from market: 61.40%
         COLLAPSED: FM markets (152 datepoints): Datepoints with at least one revision in 60 months forward: 80.92% (123)
         COLLAPSED: FM markets (152 datepoints): Datepoints with no revisions in 60 months forward: 19.08% (29)
         COLLAPSED: FM markets: Mean any revisions number in 60 months forward from datepoint: 69.72
         COLLAPSED: FM markets: Mean positive revisions number in 60 months forward from datepoint: 29.14
         COLLAPSED: FM markets: Mean negative revisions number in 60 months forward from datepoint: 40.59
         COLLAPSED: FM markets: Mean part of members revised in 60 months forward from market: 66.12%
In [12]: ### SAVING COLLAPSE RANKING TO HDF FILE
         ser ranking = df rating agg['COLLAPSED']
         ser ranking.name = 'Rank'
         path collapsed = 'Data Files/Source Files/Collapsed Rank.h5'
         key collapsed = 'Rank'
         ser ranking.to hdf(path collapsed, key collapsed, mode = 'w', format = 'fixed')
```