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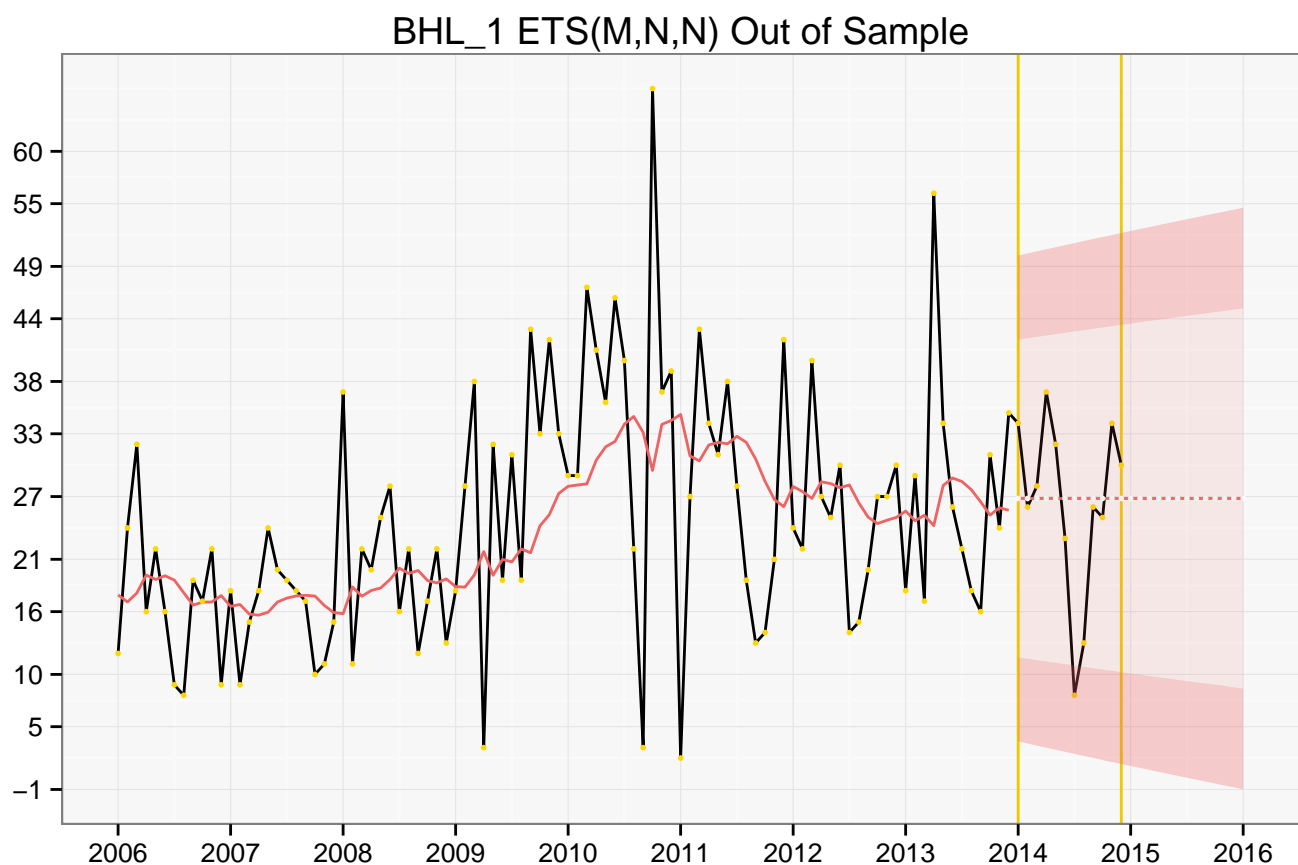
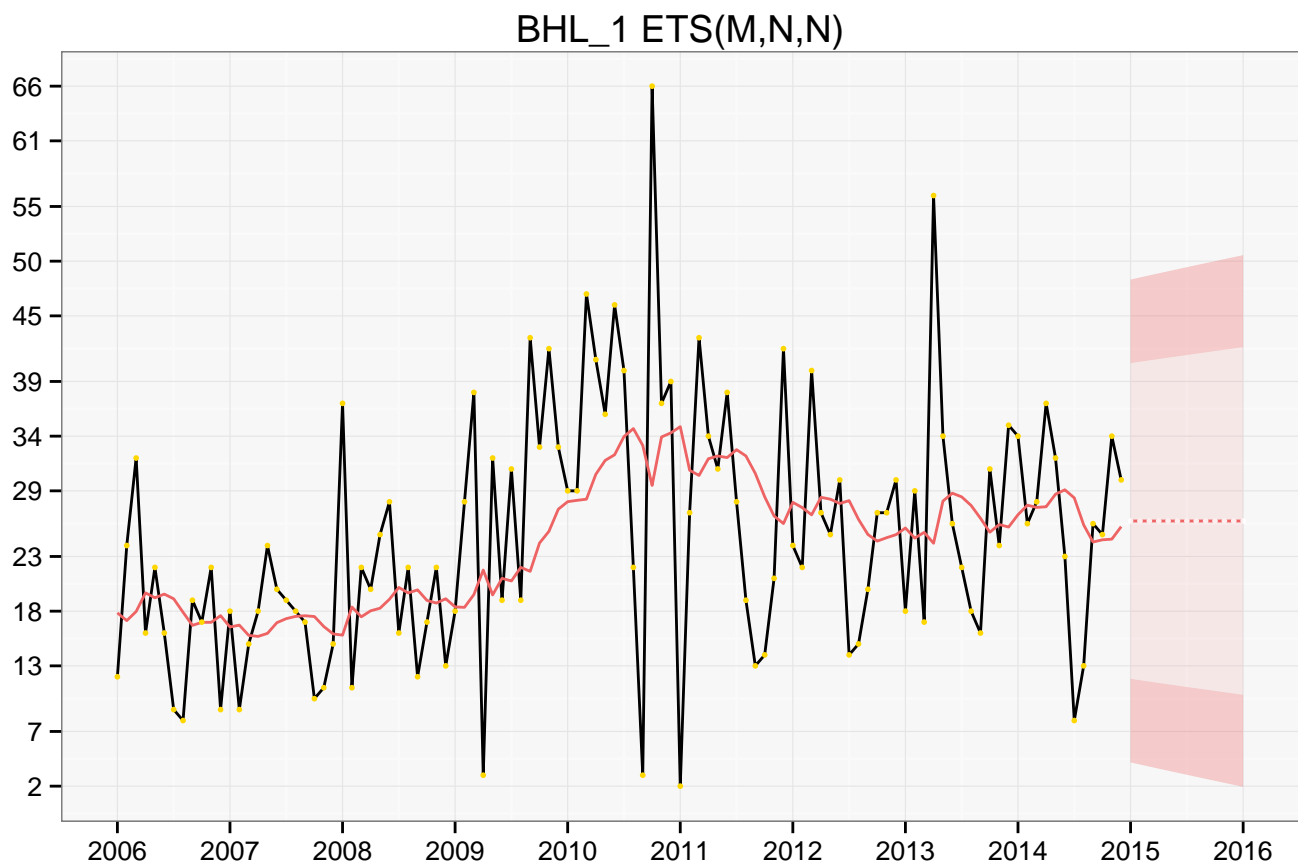
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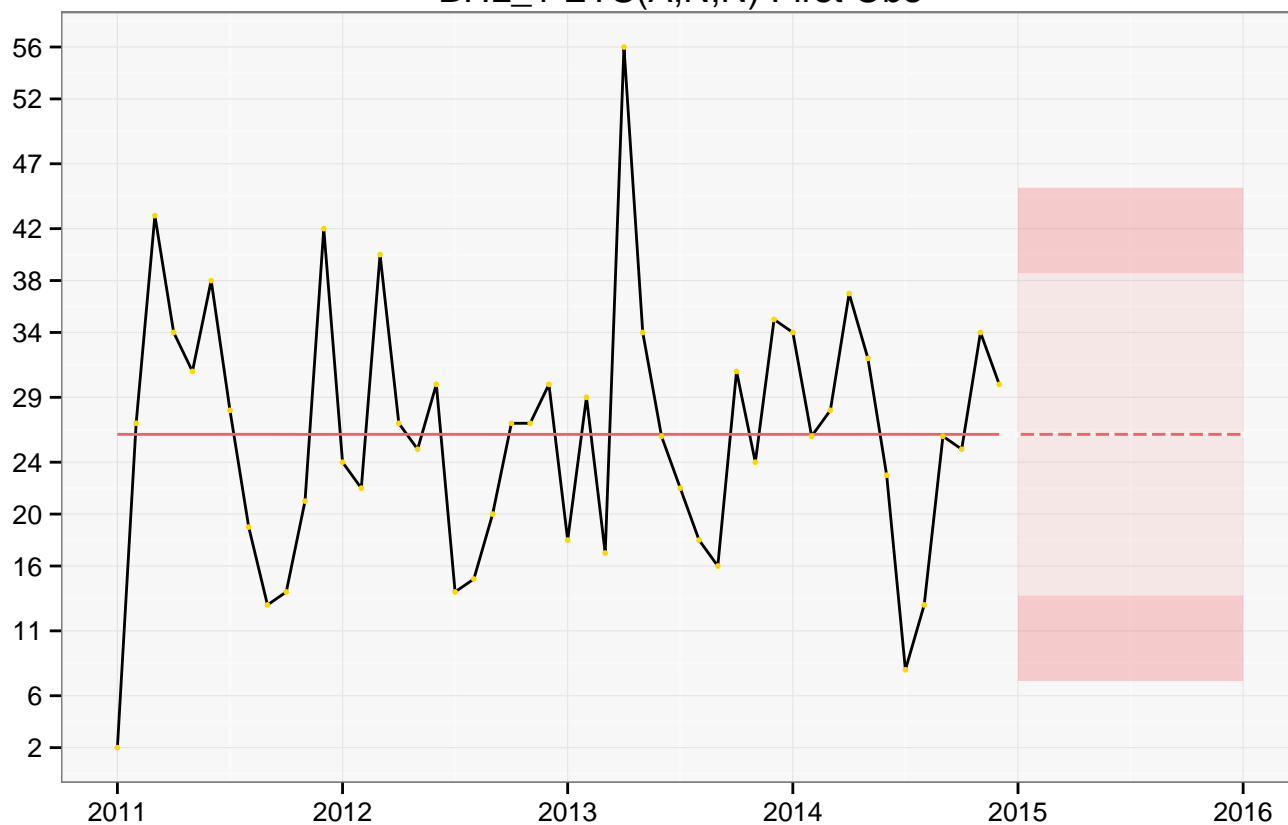
1 ets, nnetar, arimax on Cat products

1.1 BHL\_1

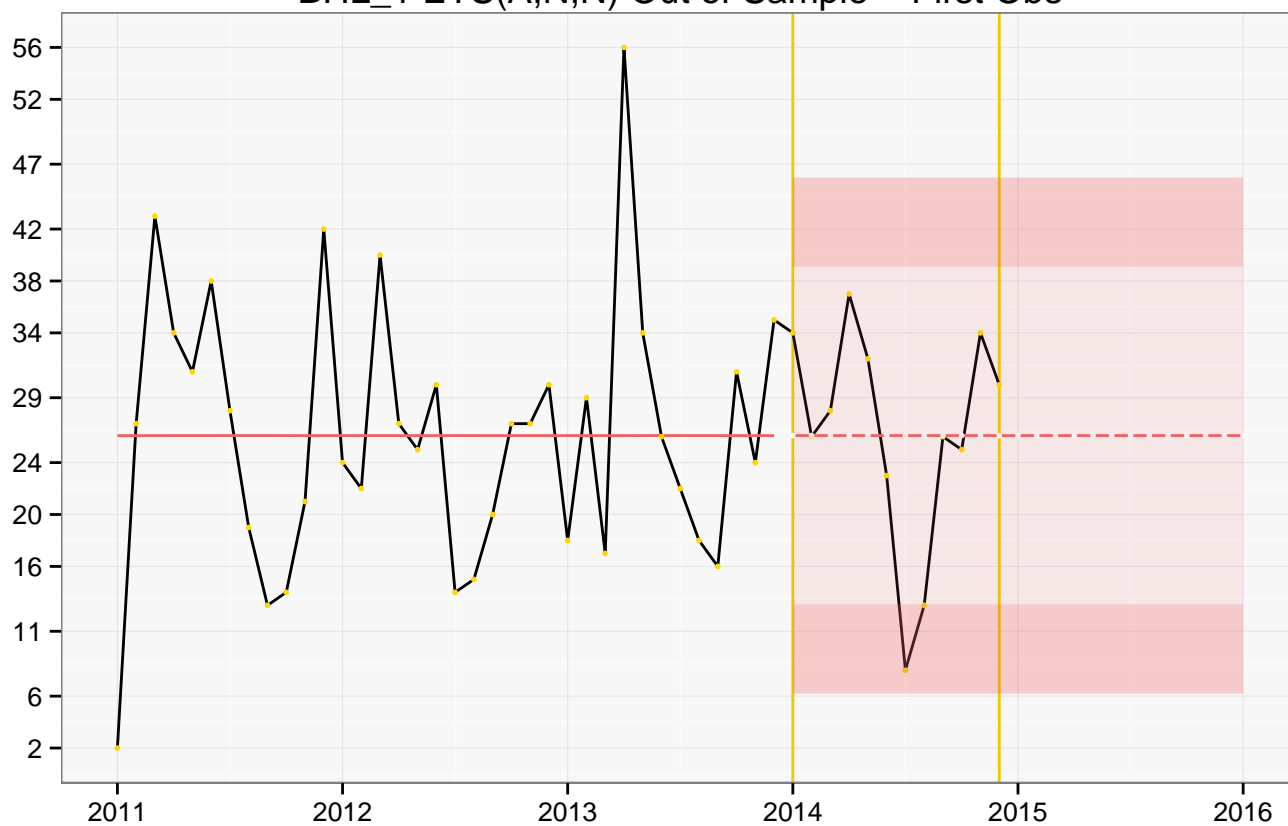
1.1.1 plots for BHL\_1

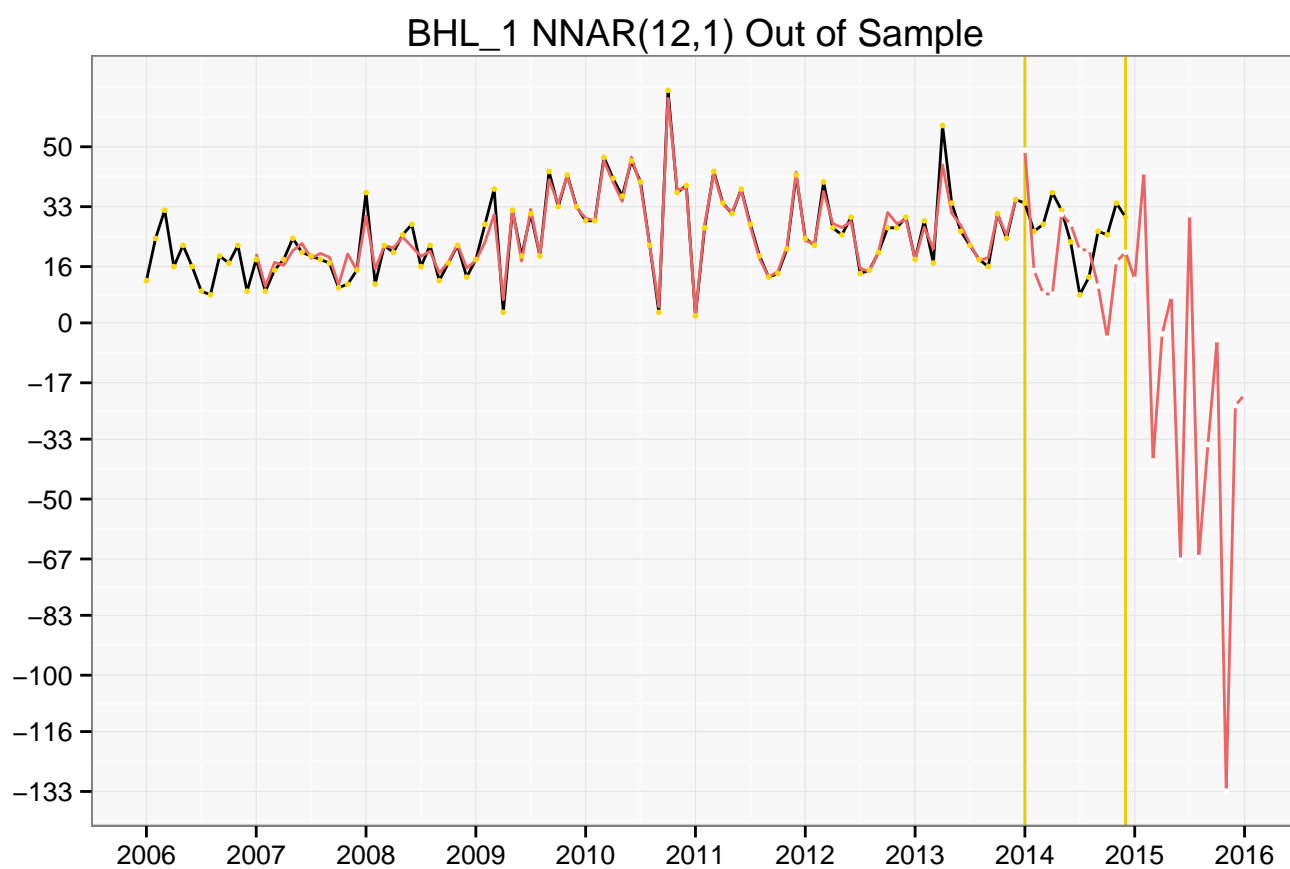
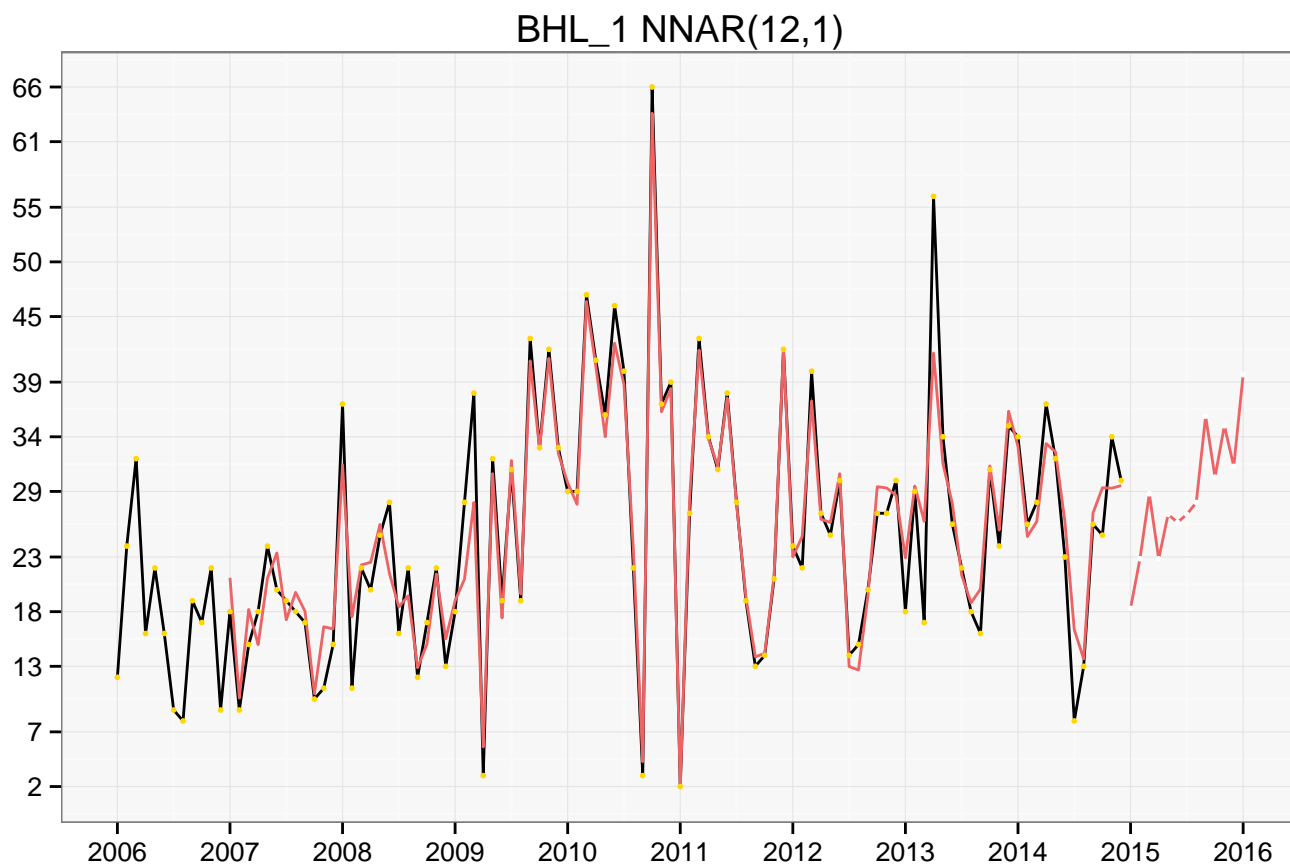


BHL\_1 ETS(A,N,N) First Obs

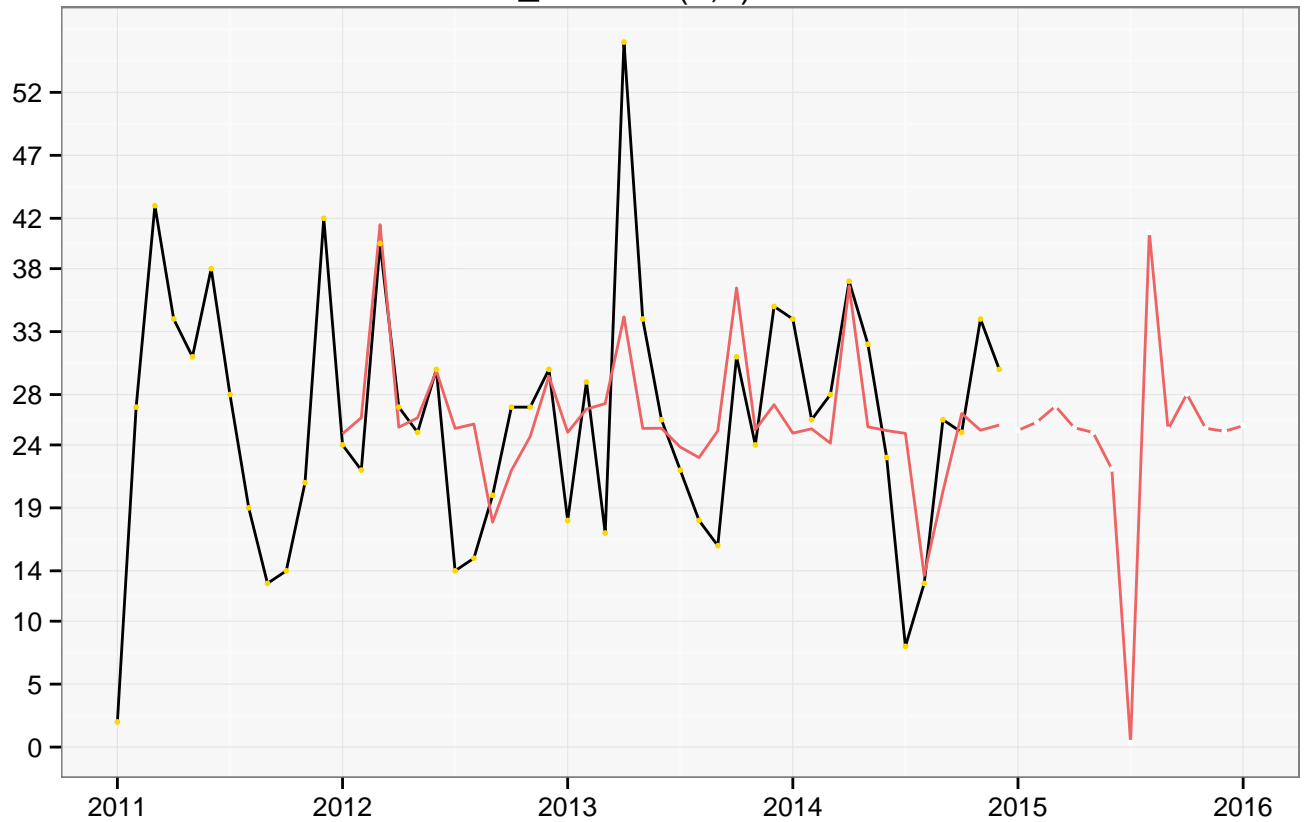


BHL\_1 ETS(A,N,N) Out of Sample – First Obs

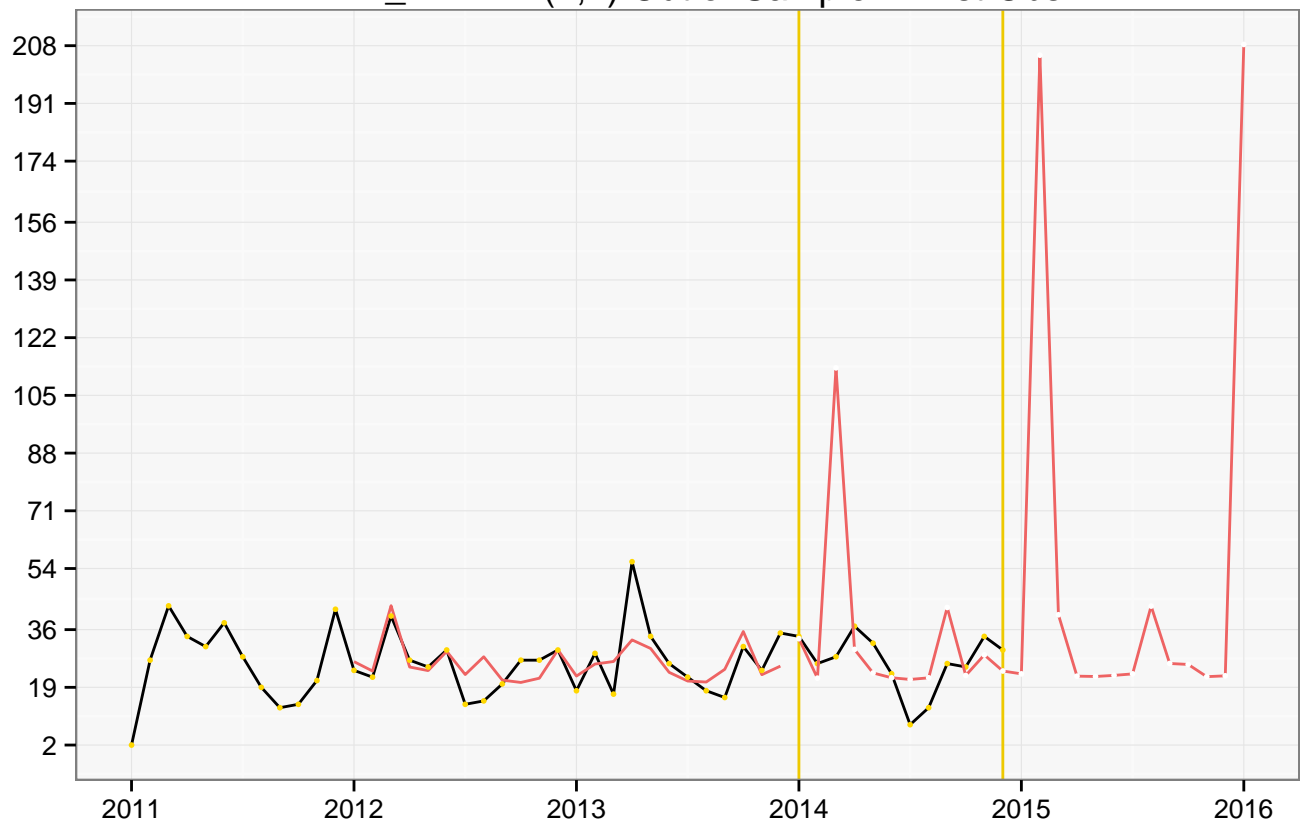




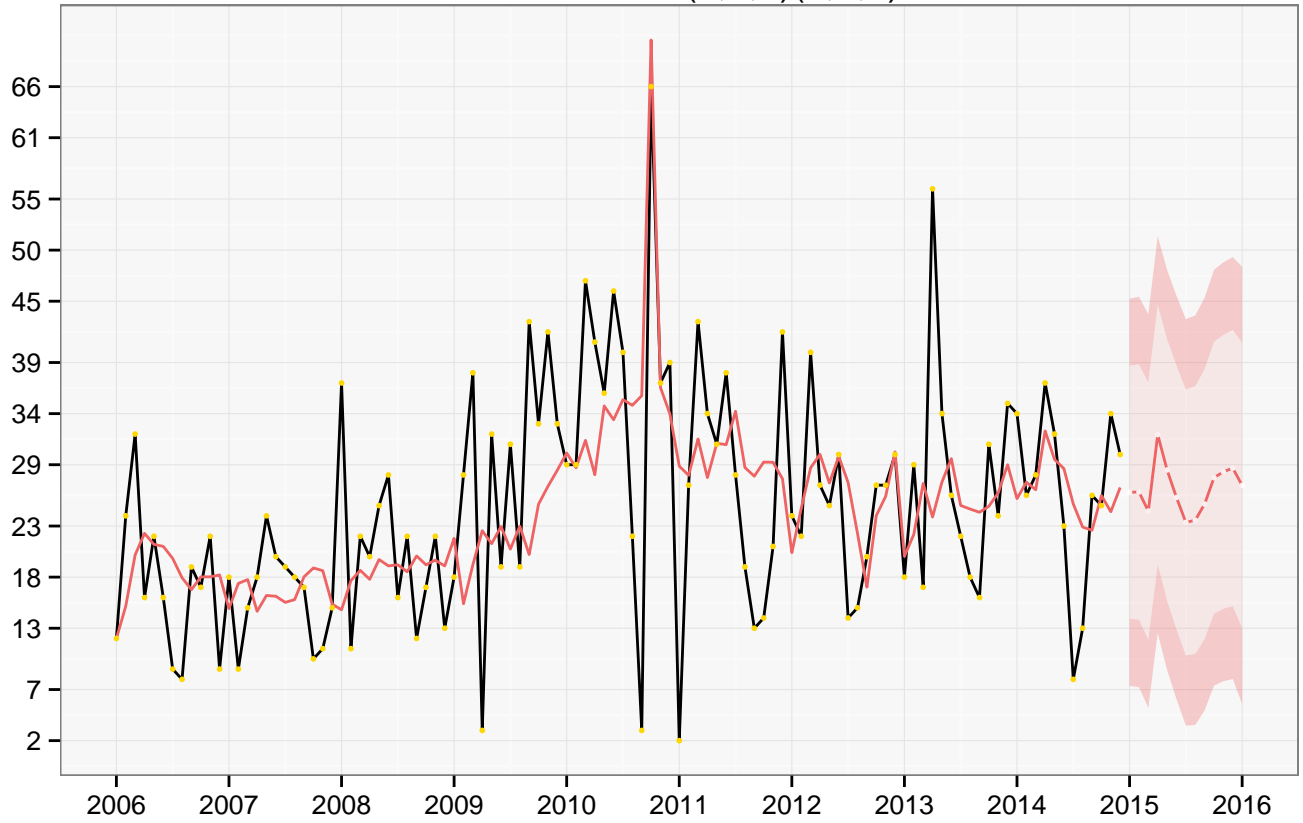
BHL\_1 NNAR(1,1) First Obs



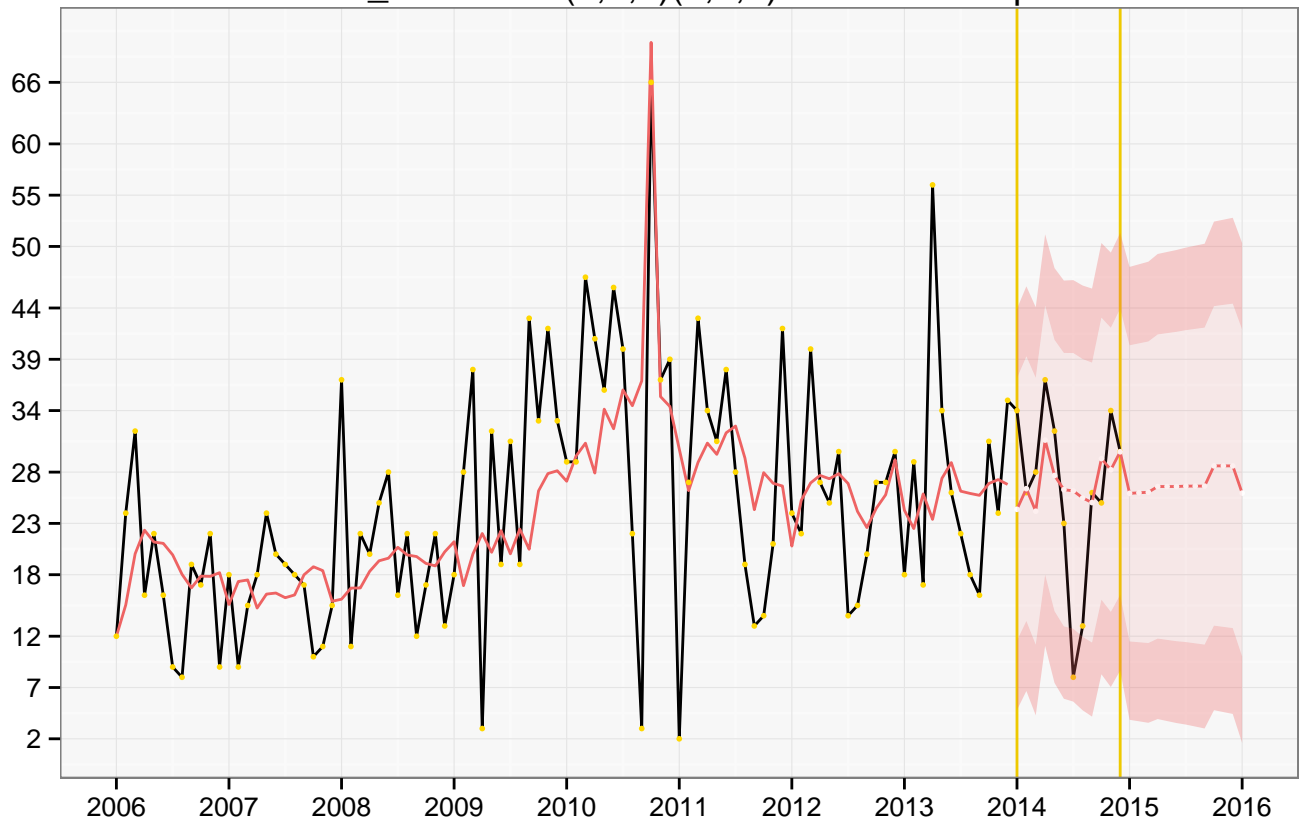
BHL\_1 NNAR(1,1) Out of Sample – First Obs



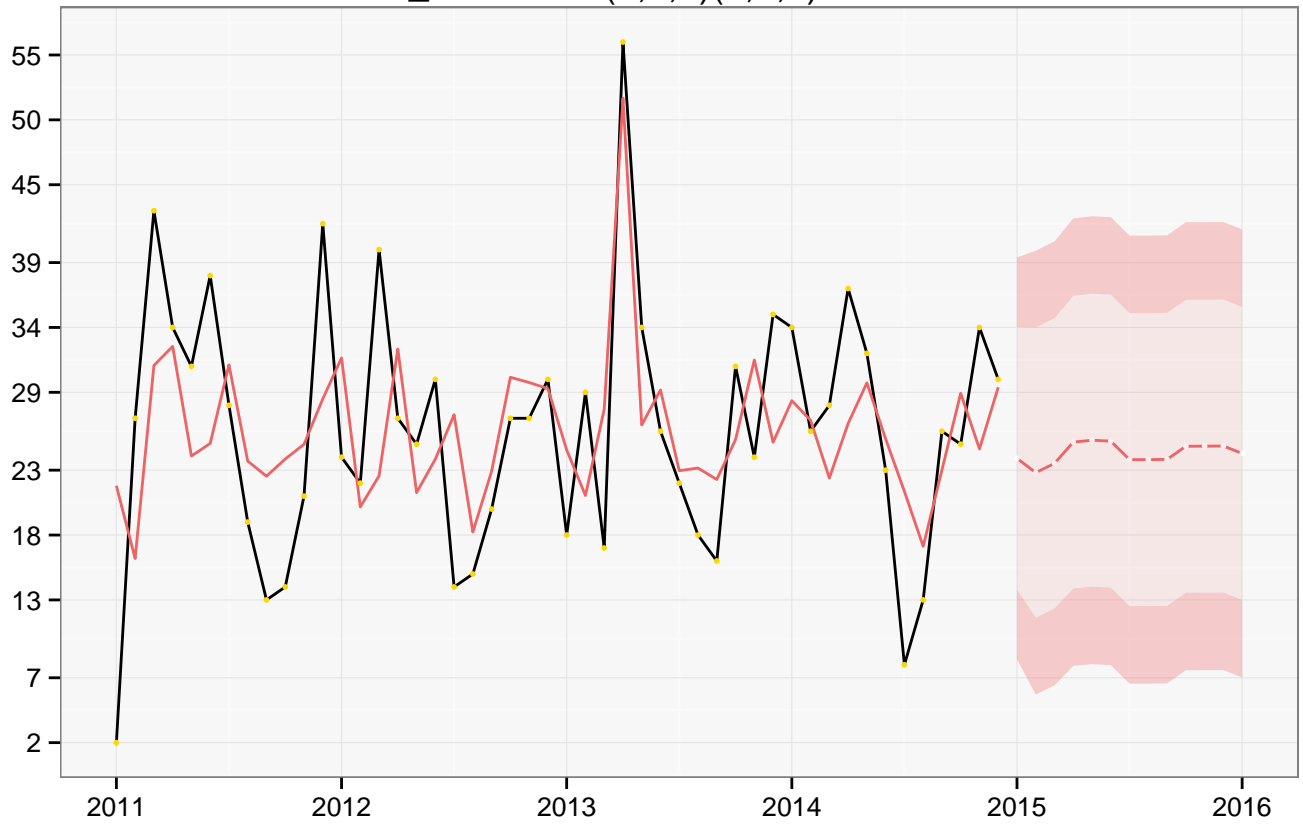
BHL\_1 ARIMAX(0,1,1)(0,0,2)12



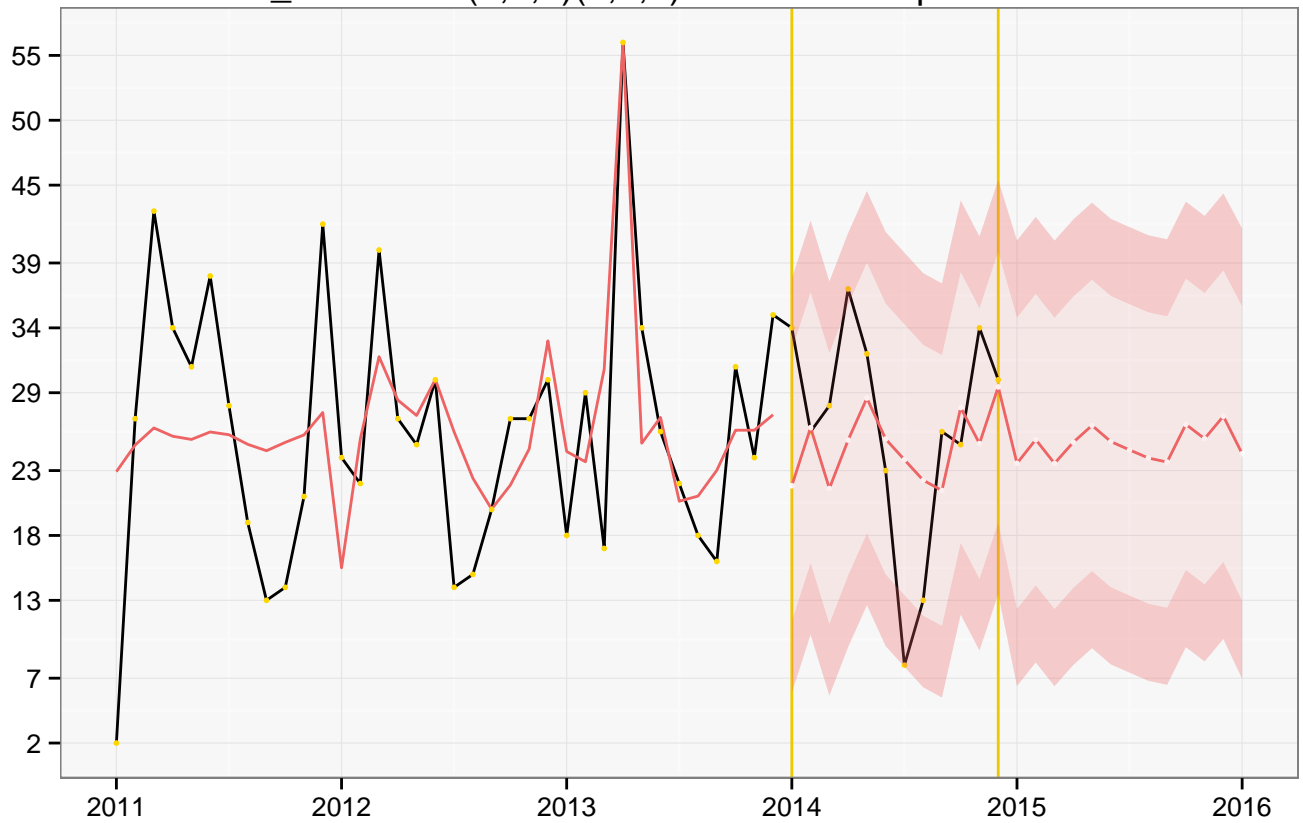
BHL\_1 ARIMAX(0,1,1)(0,0,1)12 Out of sample



BHL\_1 ARIMAX(2,0,0)(0,0,0)12 First Obs



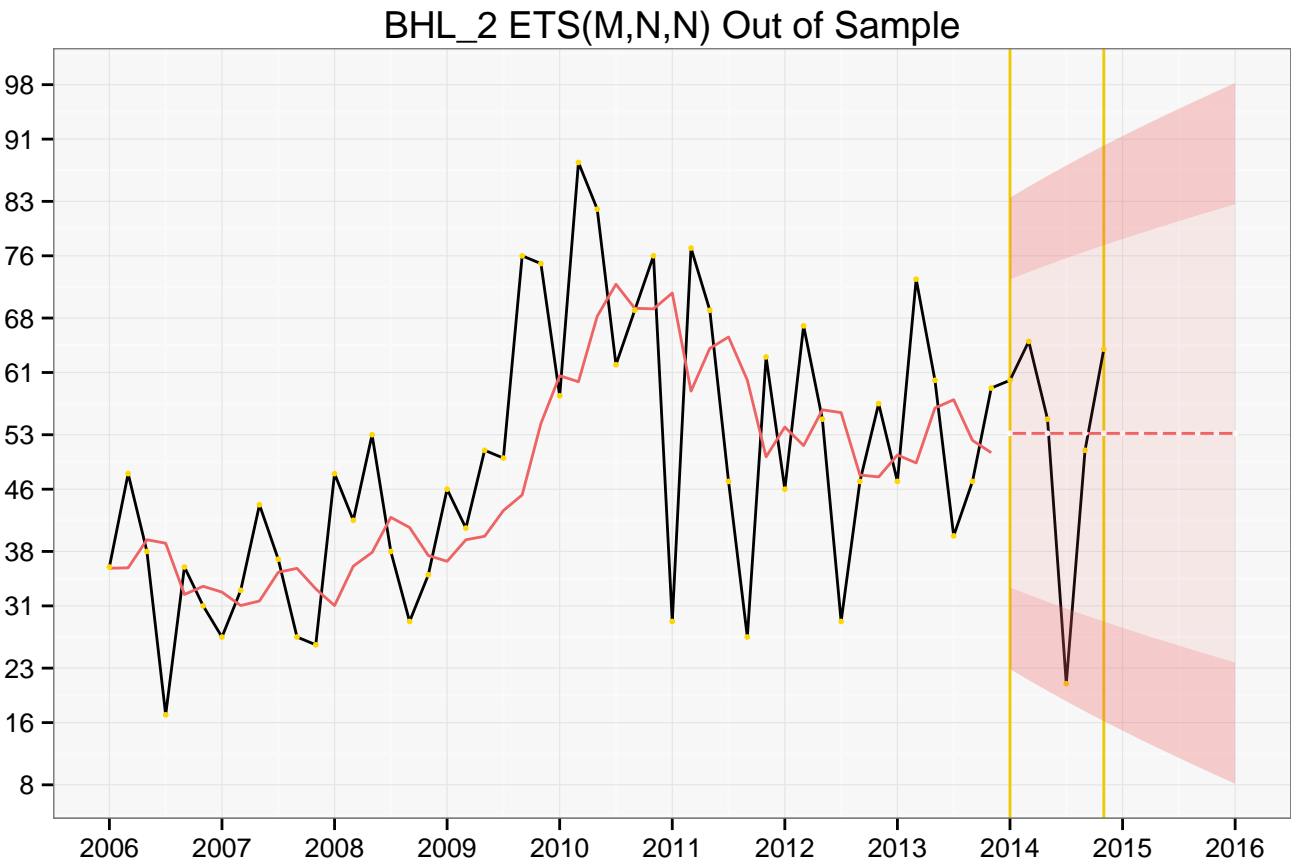
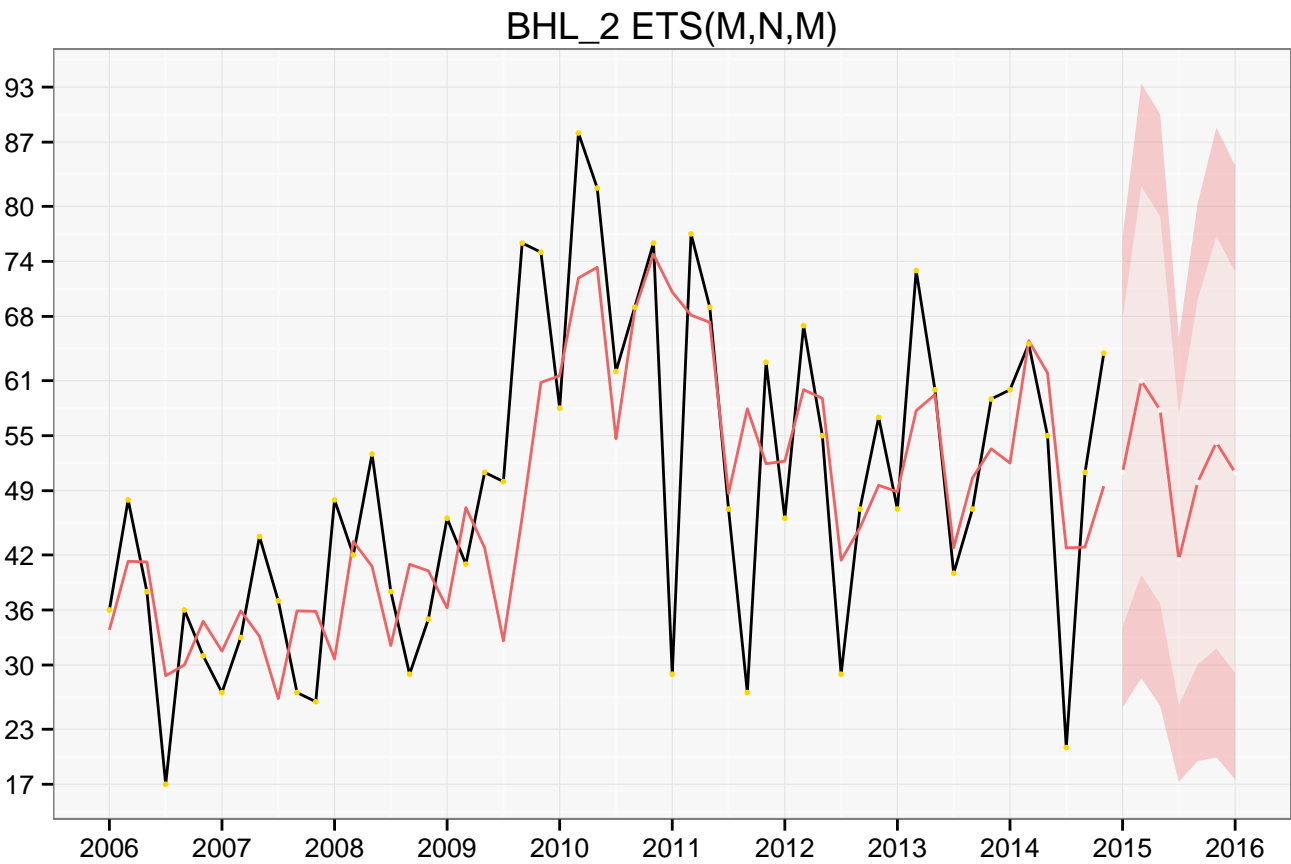
BHL\_1 ARIMAX(0,0,0)(1,0,0)12 Out of sample – First Obs



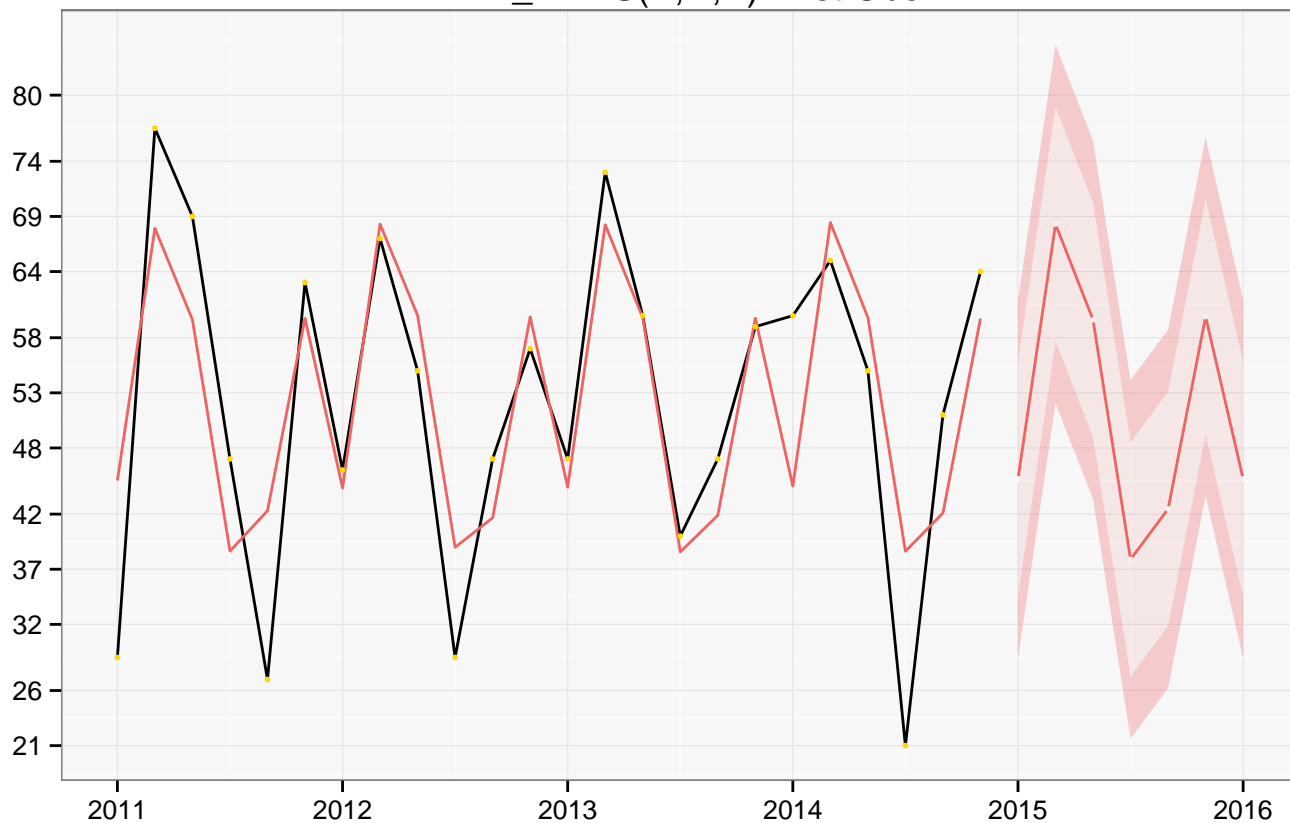


1.2 BHL\_2

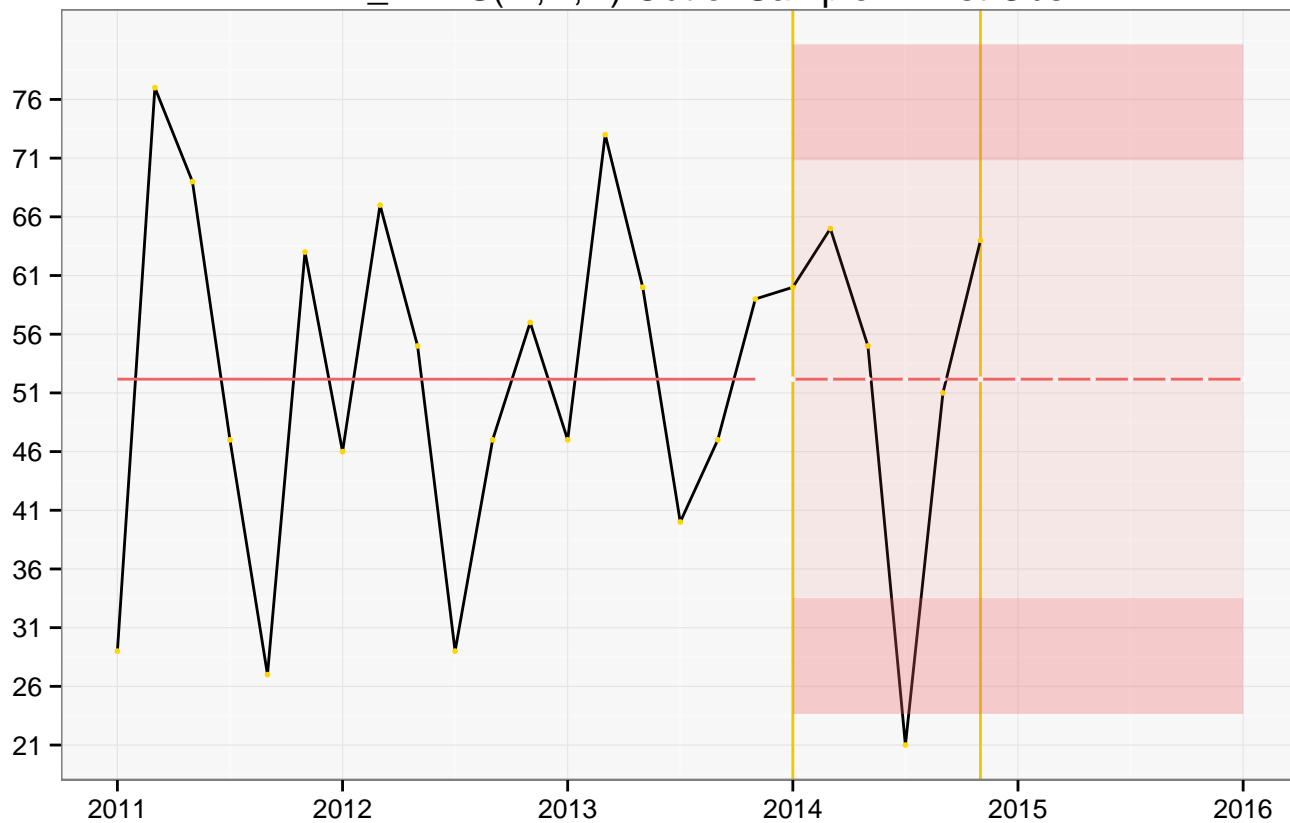
1.2.1 plots for BHL\_2

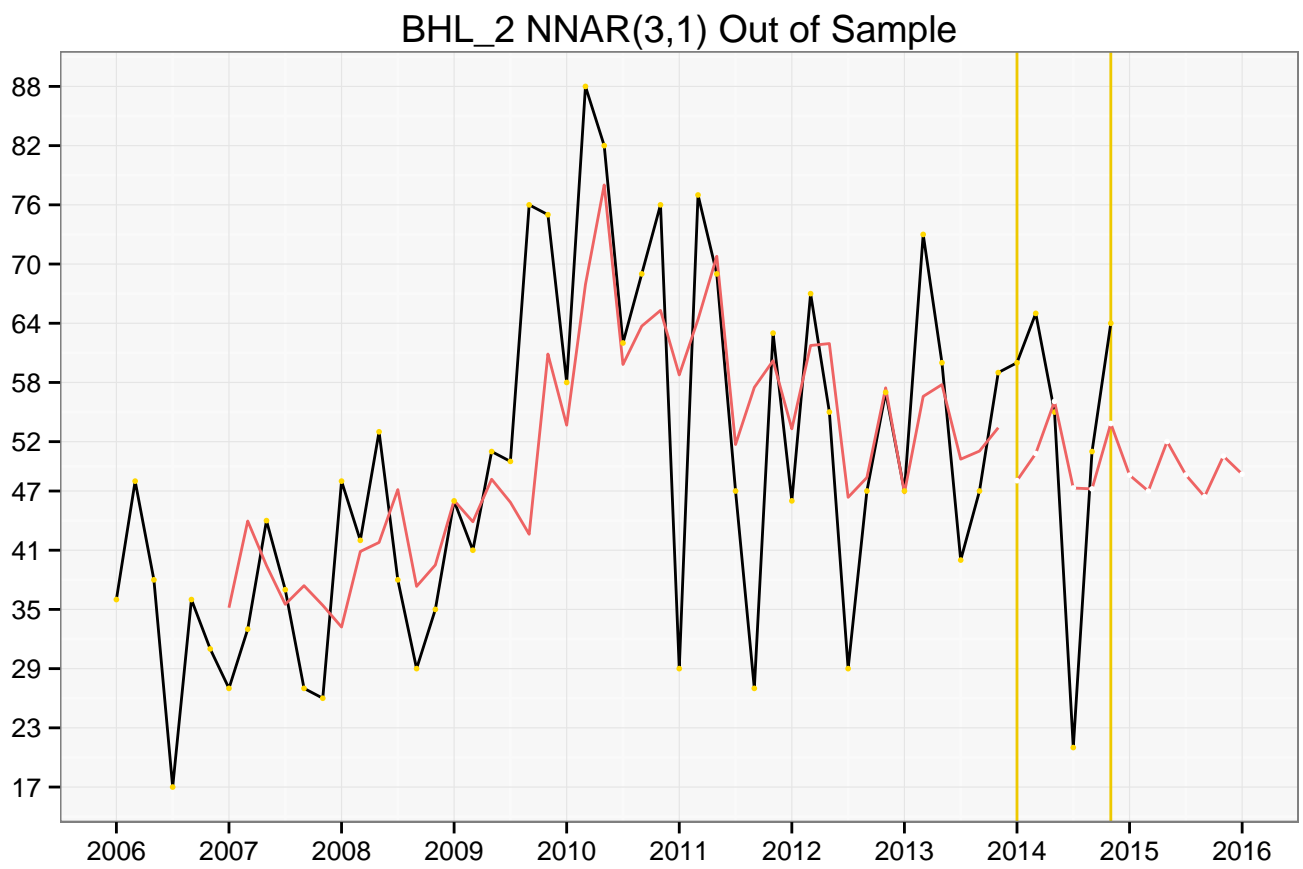
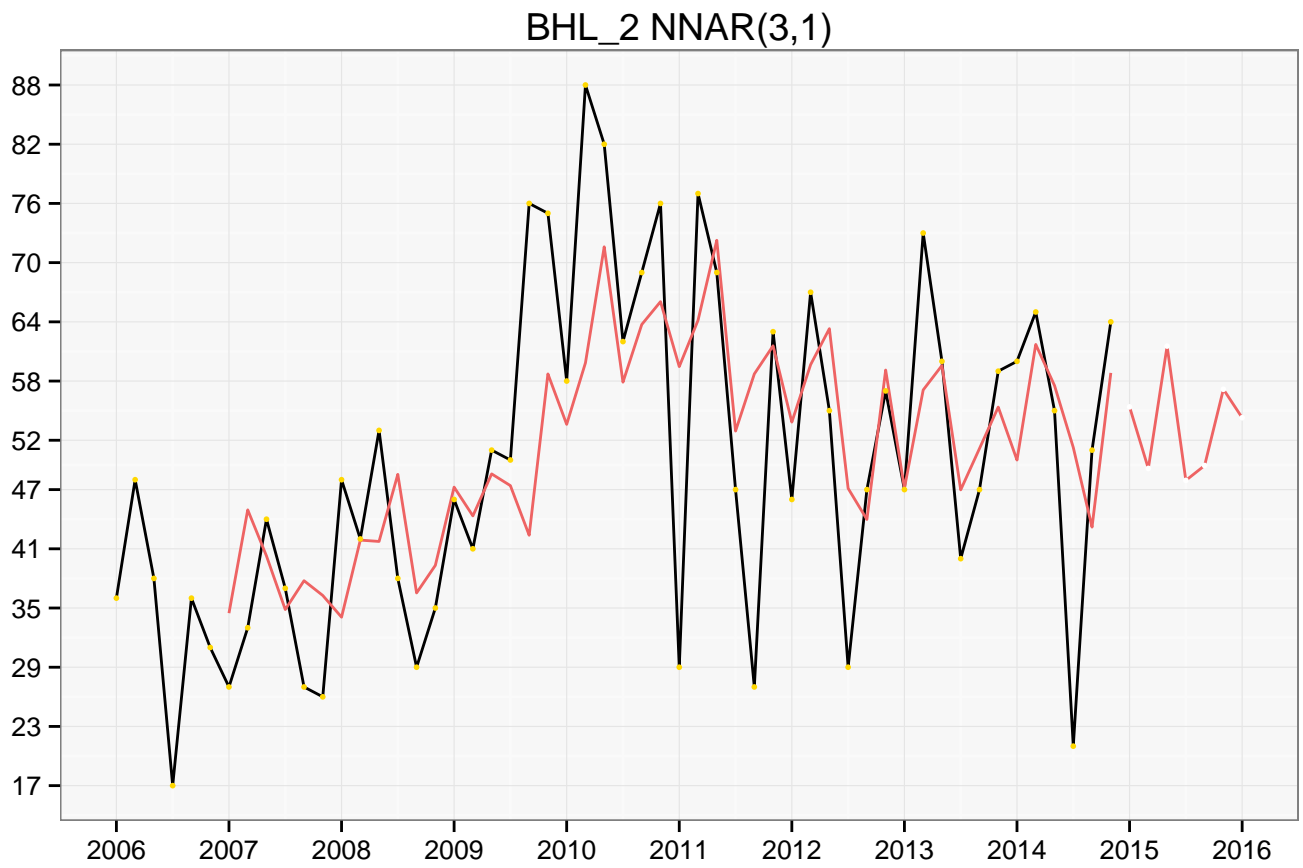


BHL\_2 ETS(A,N,A) First Obs

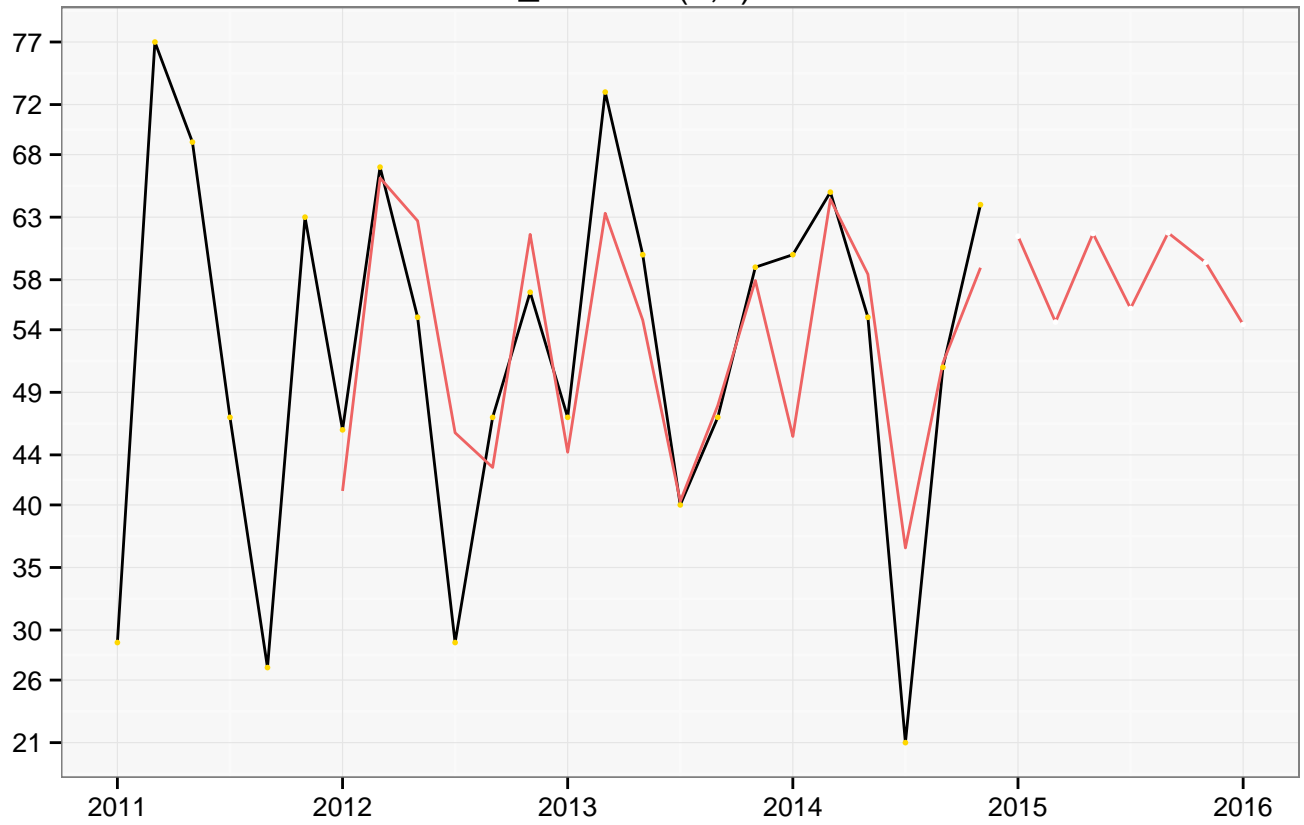


BHL\_2 ETS(M,N,N) Out of Sample – First Obs

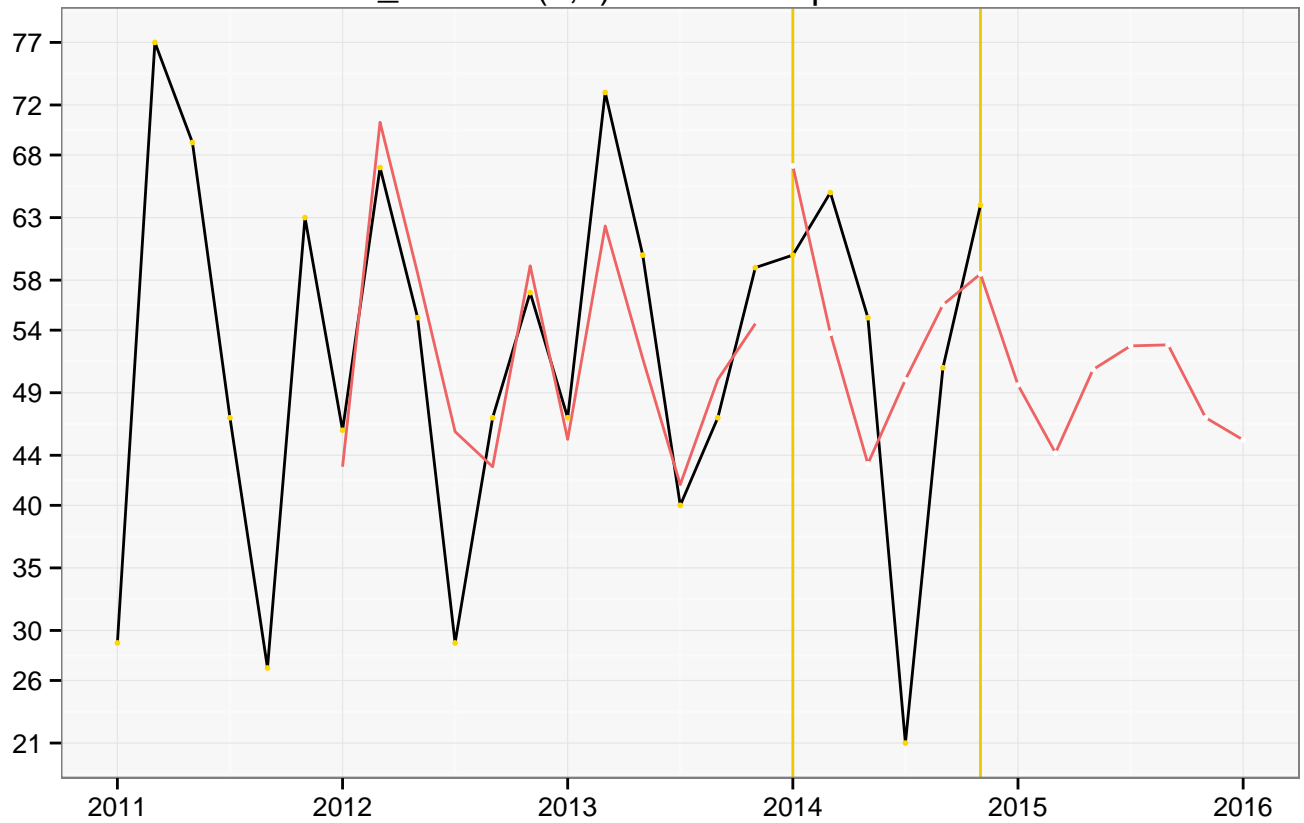




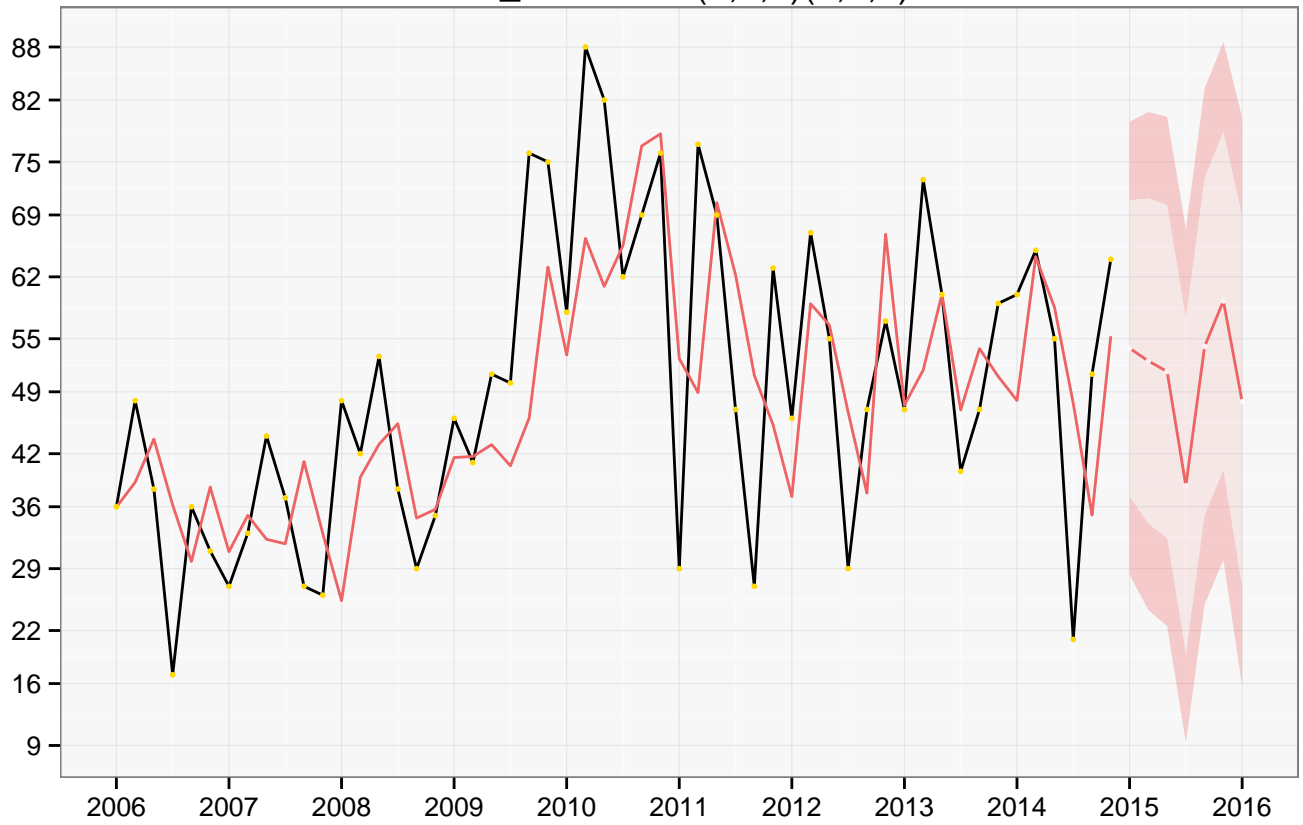
BHL\_2 NNAR(1,1) First Obs



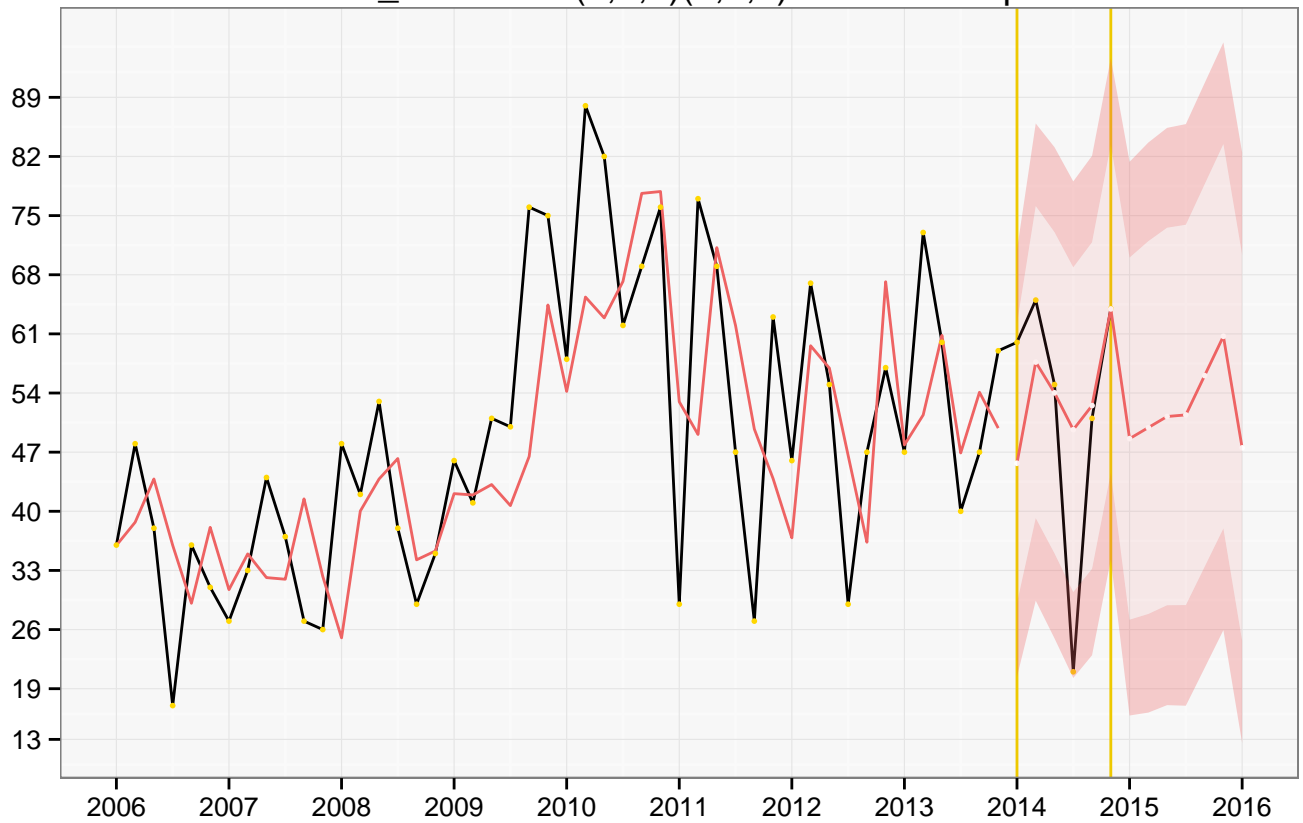
BHL\_2 NNAR(1,1) Out of Sample – First Obs



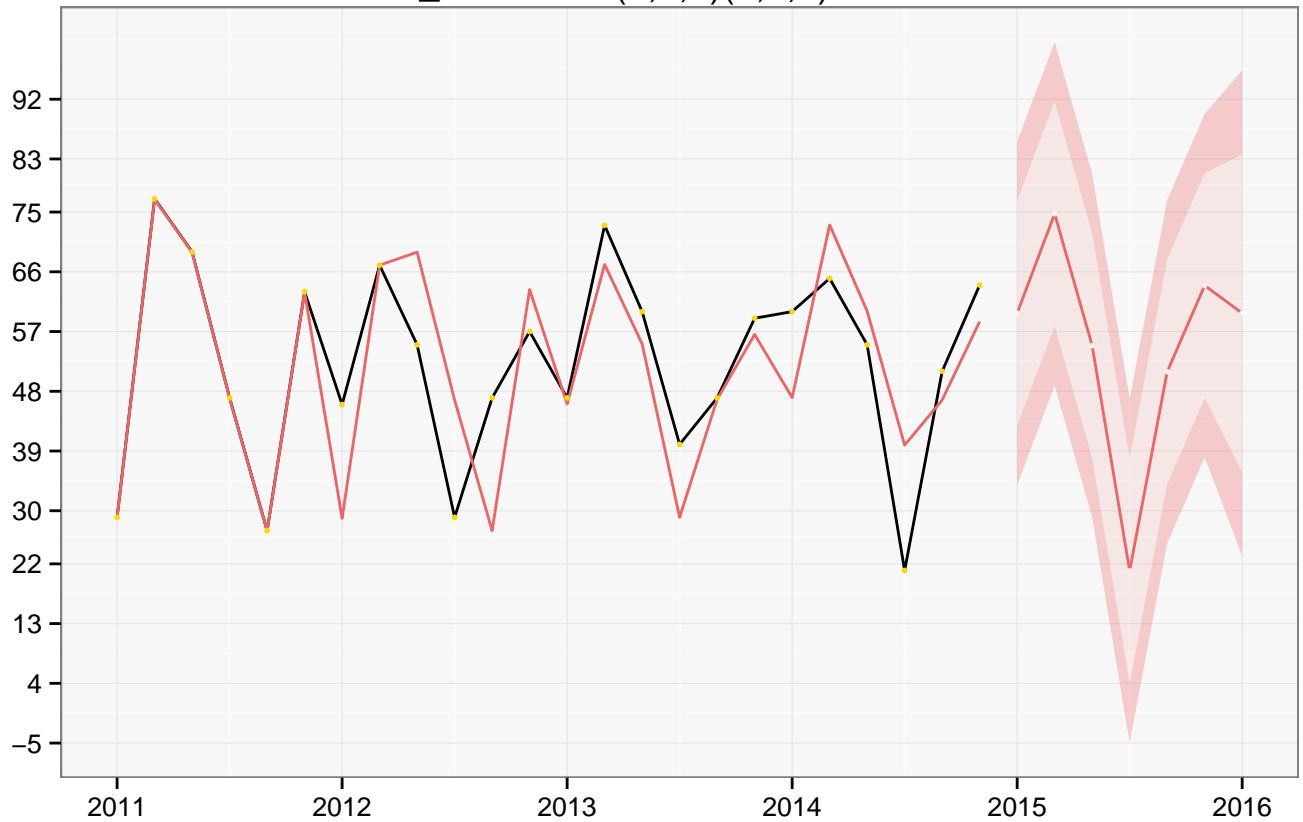
BHL\_2 ARIMAX(1,1,1)(0,0,1)6



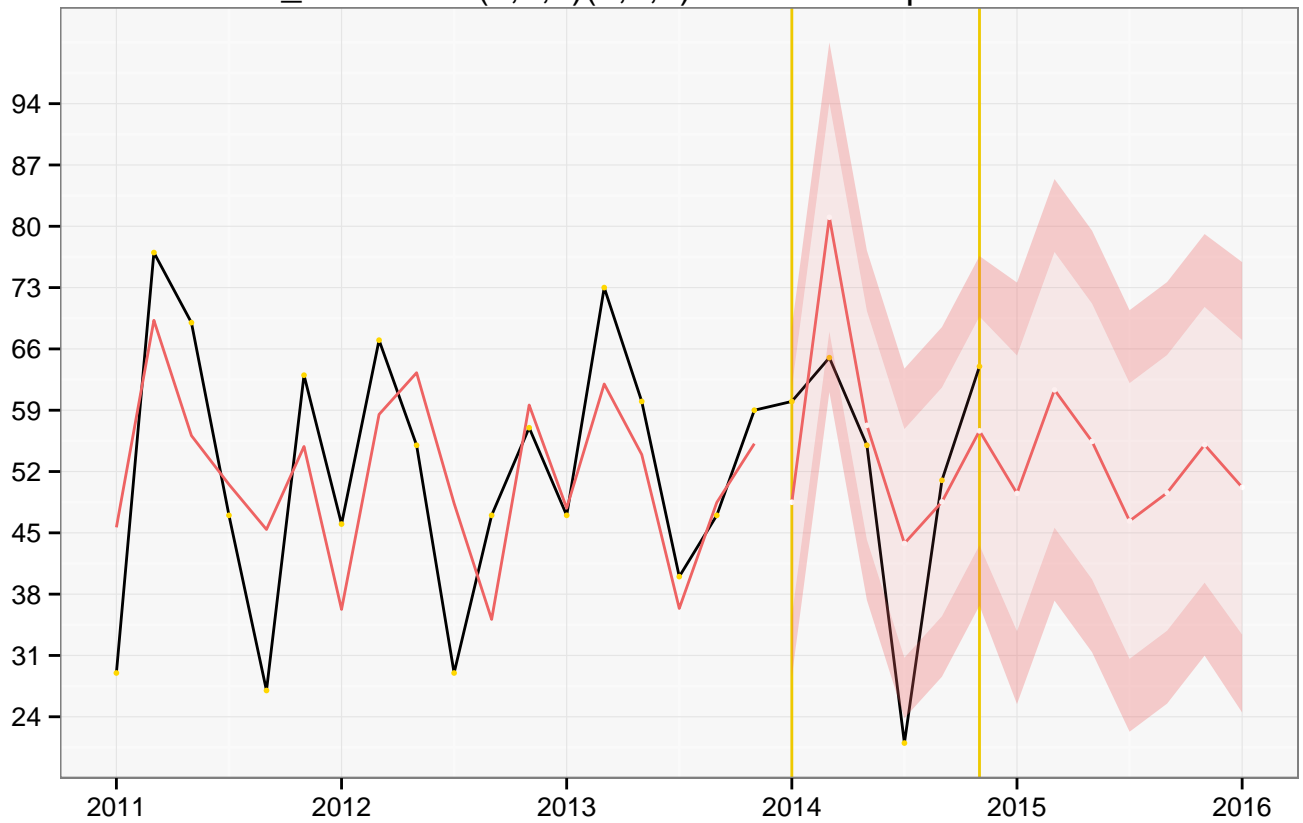
BHL\_2 ARIMAX(1,1,1)(0,0,1)6 Out of sample



BHL\_2 ARIMAX(0,0,0)(0,1,0)6 First Obs

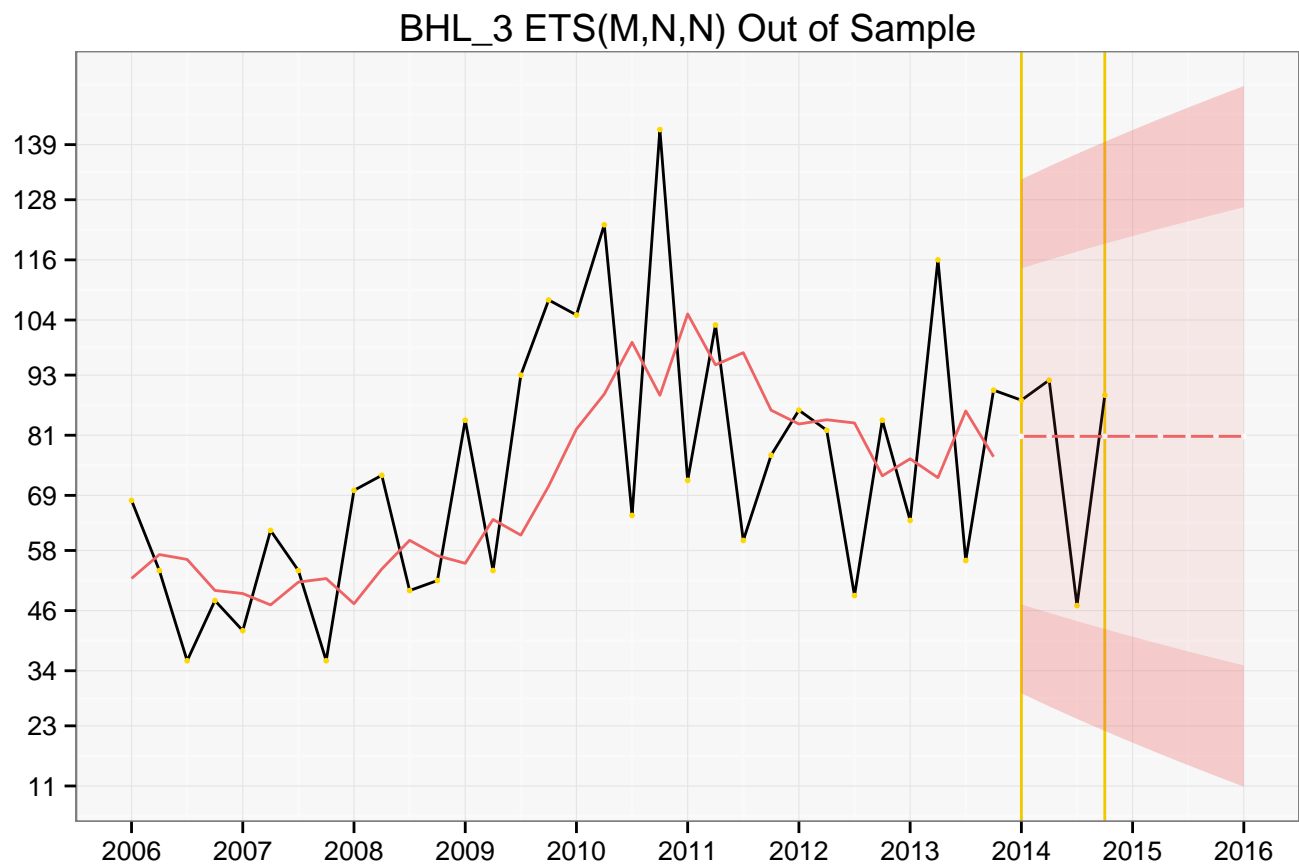
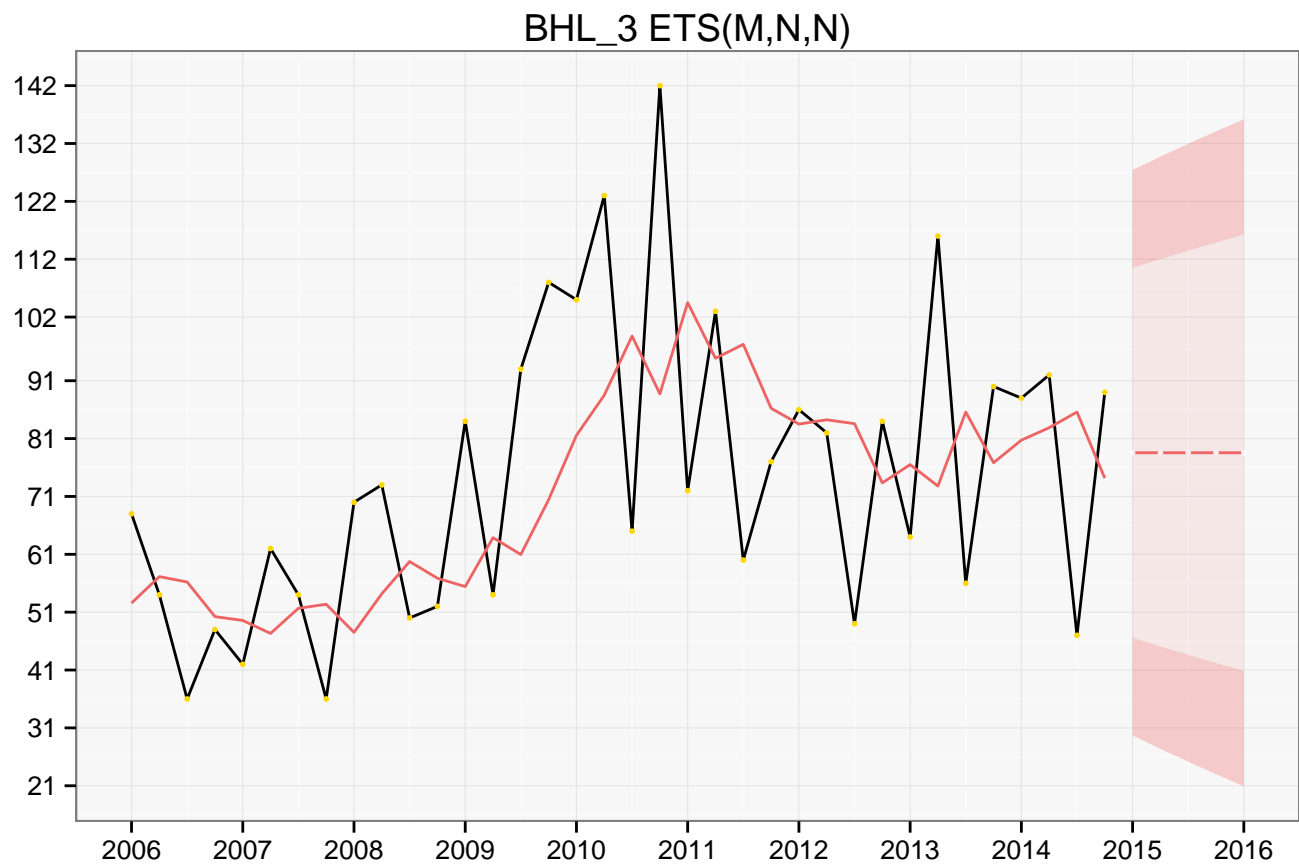


BHL\_2 ARIMAX(0,0,0)(1,0,0)6 Out of sample – First Obs

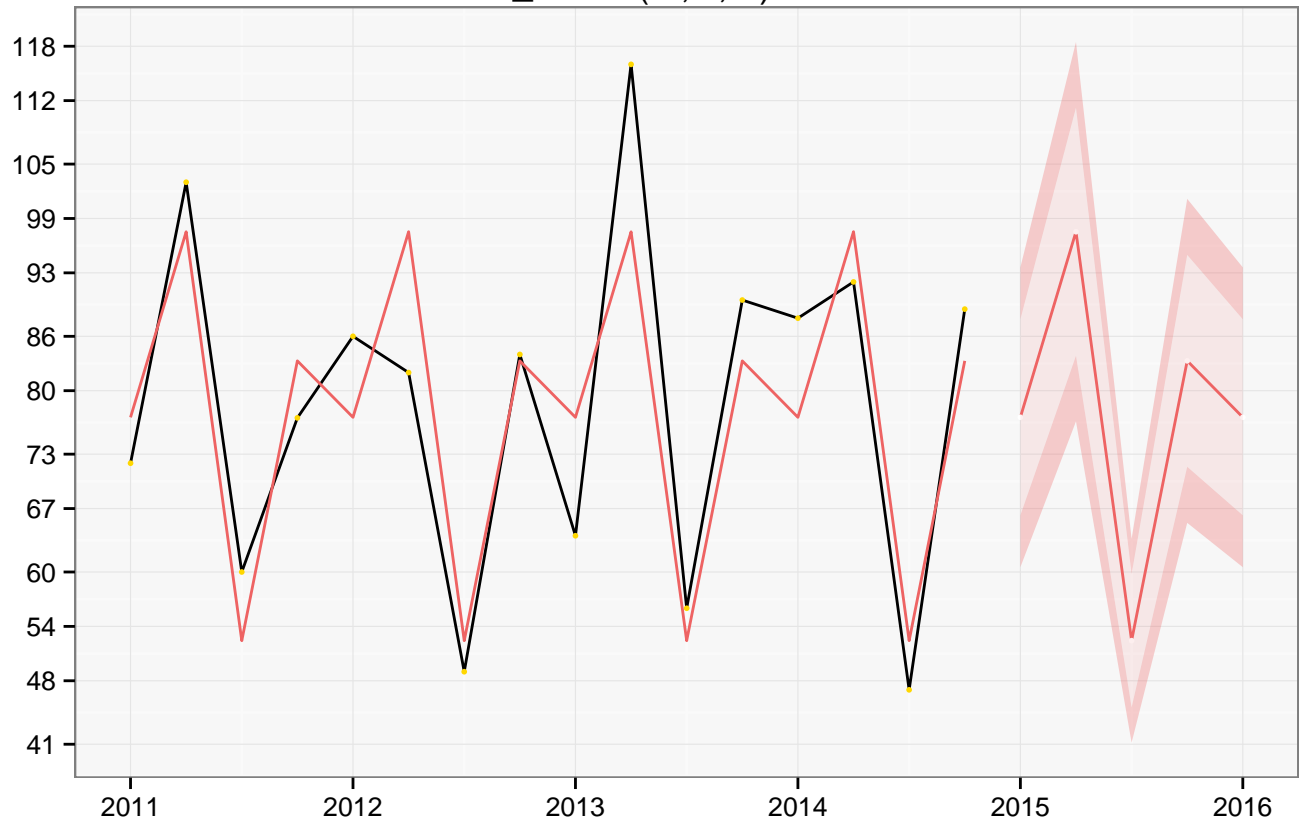


1.3 BHL\_3

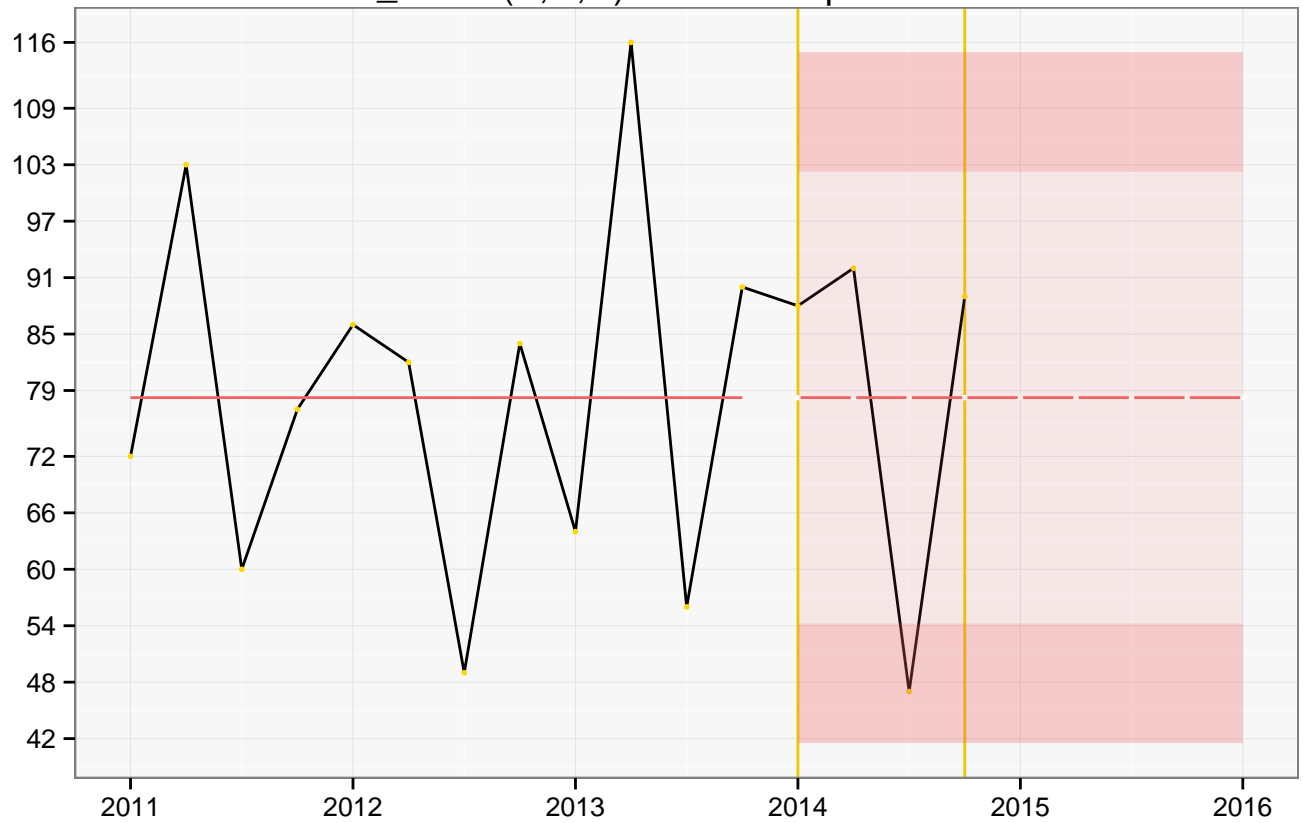
1.3.1 plots for BHL\_3



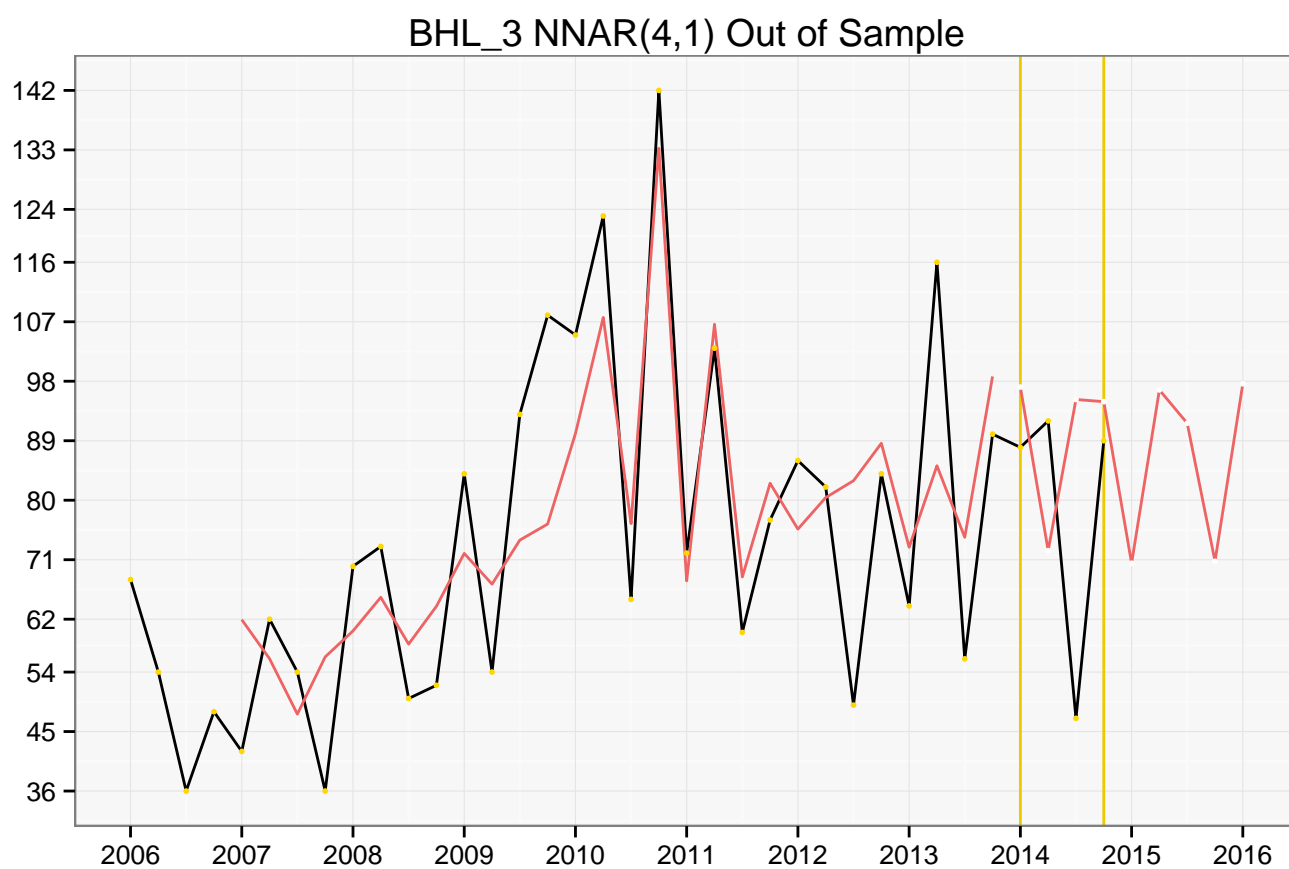
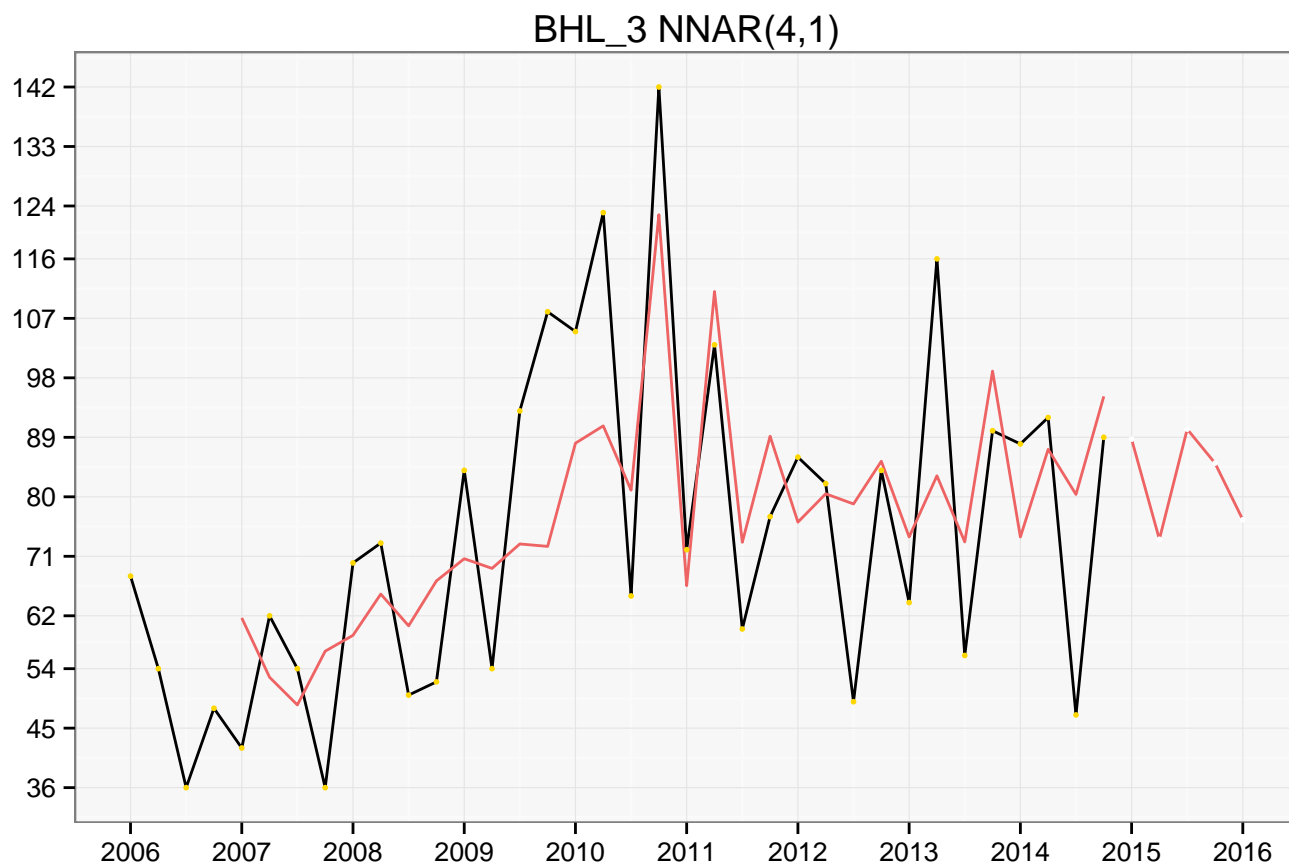
BHL\_3 ETS(M,N,M) First Obs



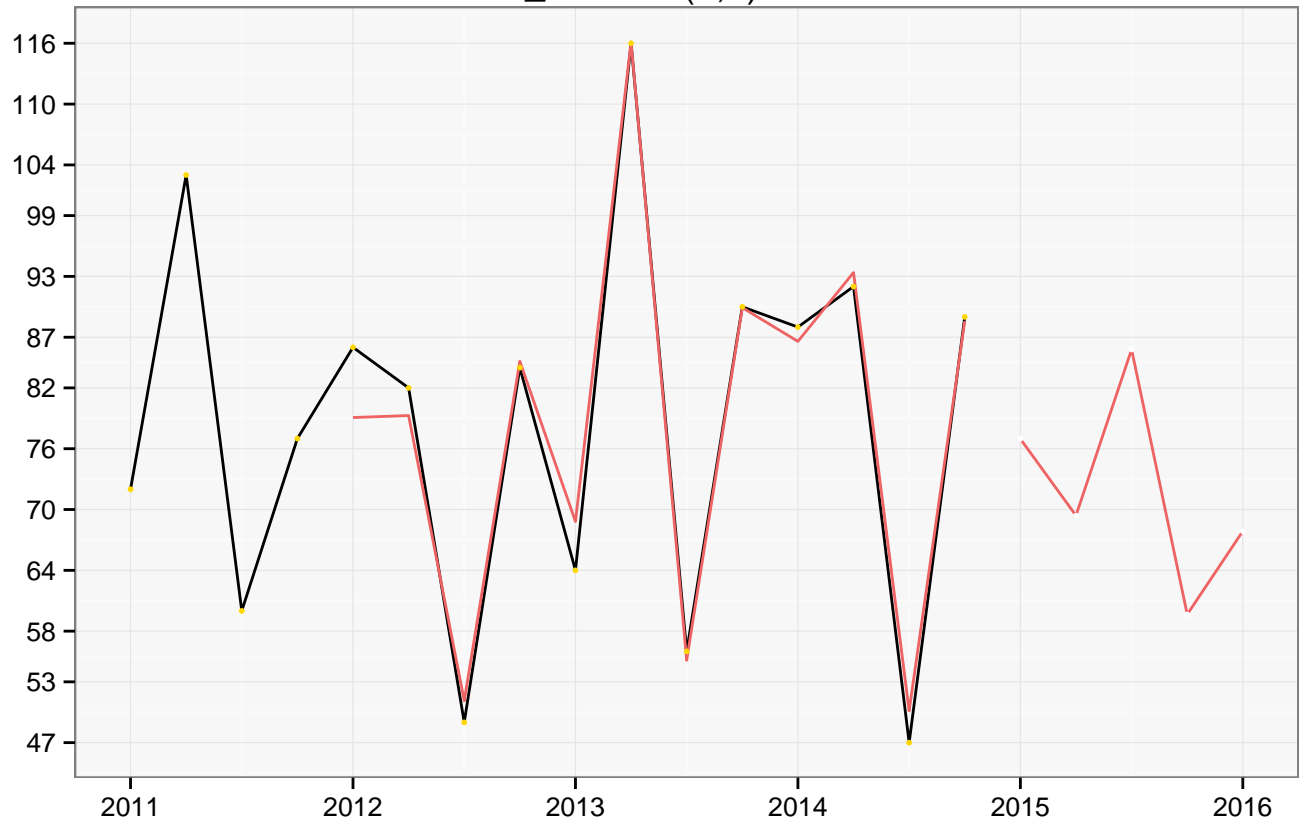
BHL\_3 ETS(A,N,N) Out of Sample – First Obs



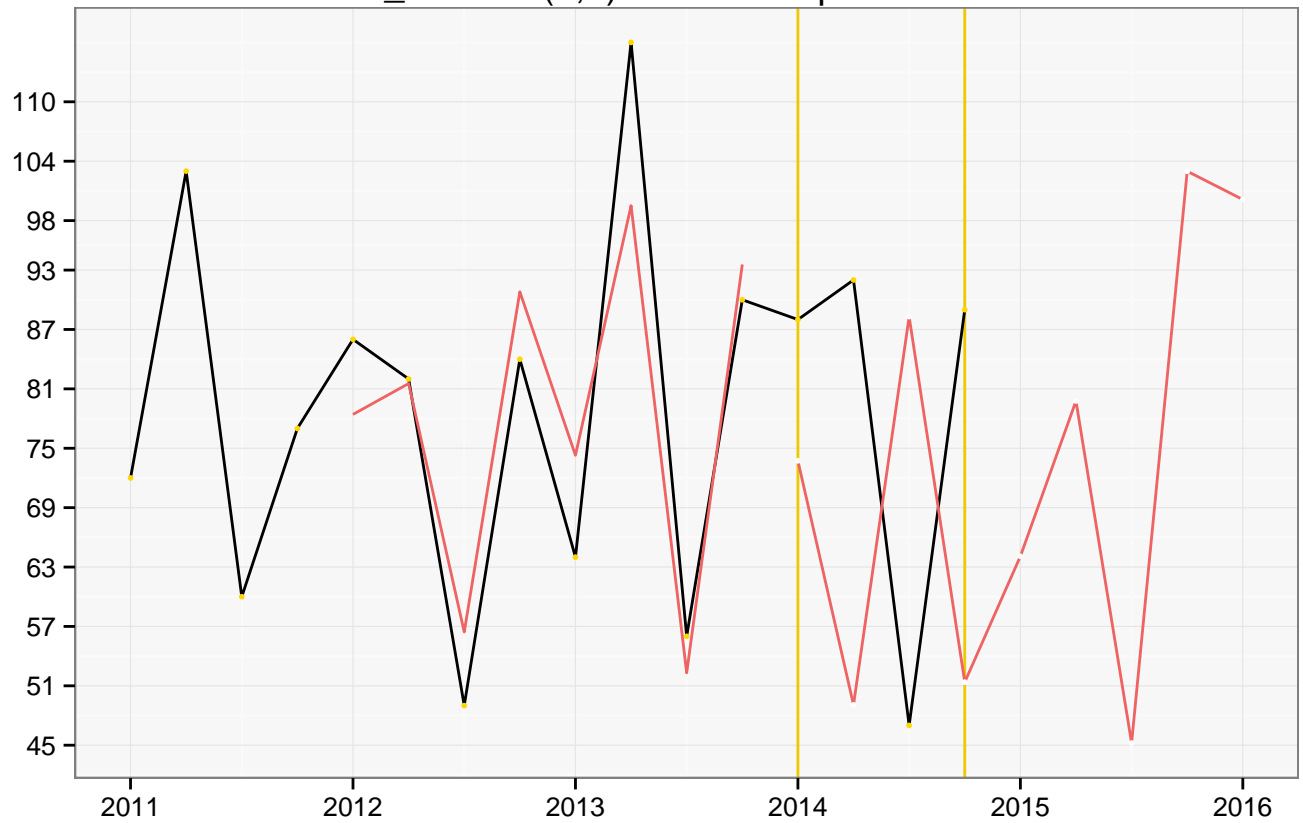




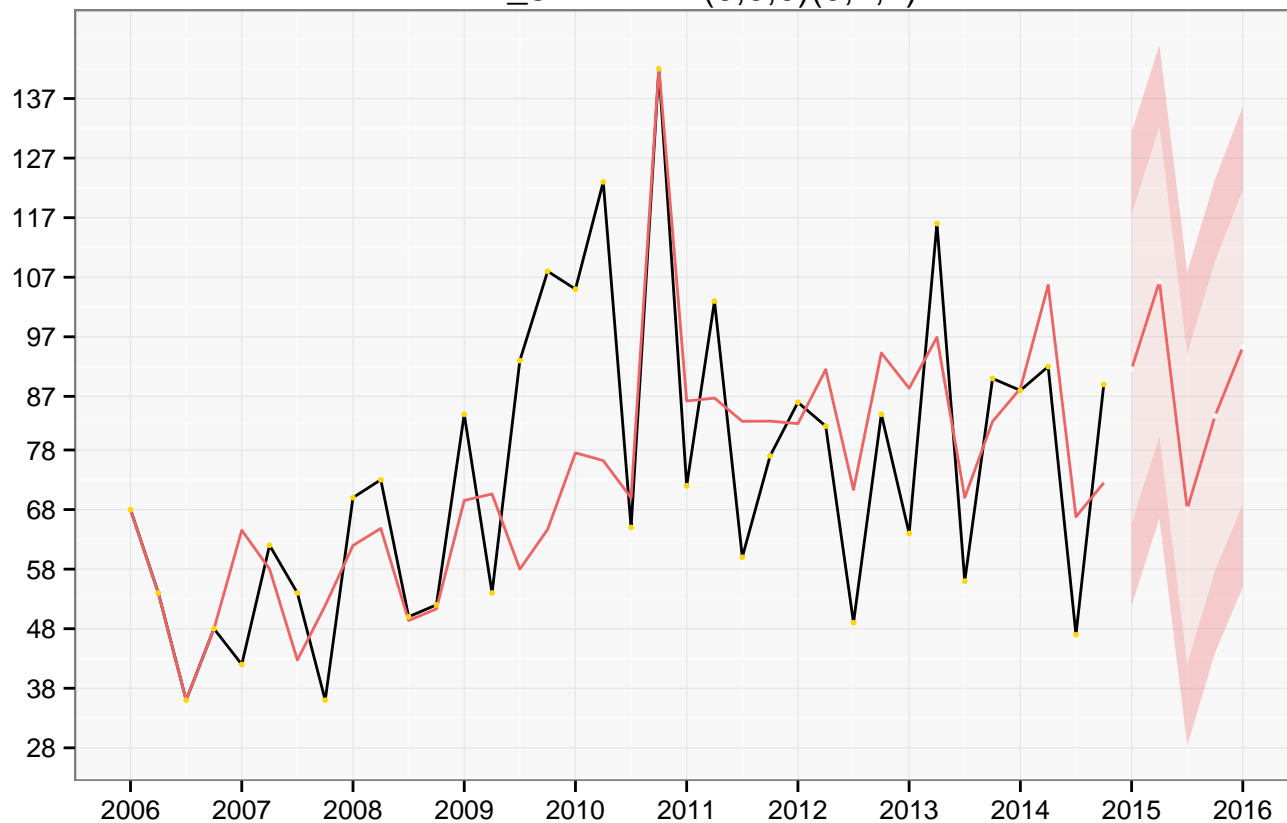
BHL\_3 NNAR(4,1) First Obs



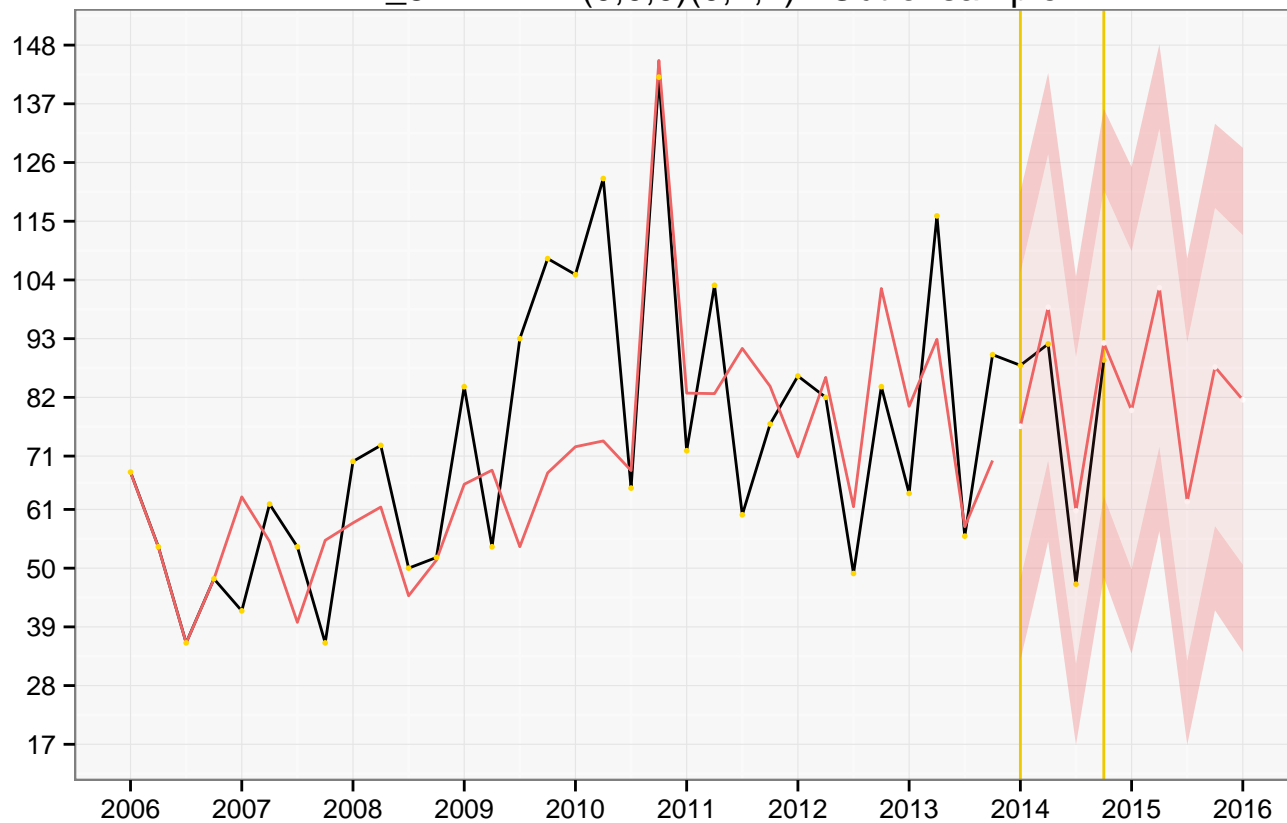
BHL\_3 NNAR(1,1) Out of Sample – First Obs

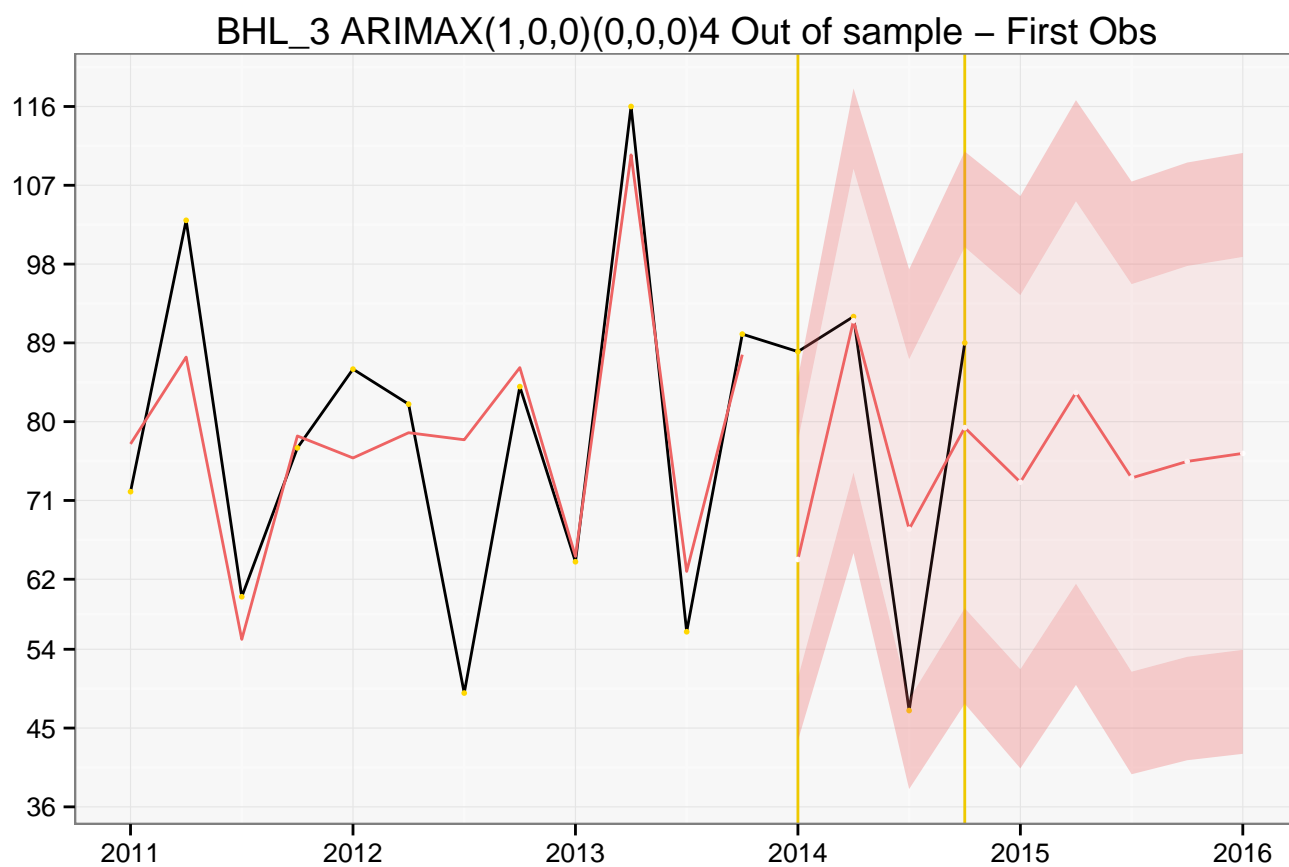
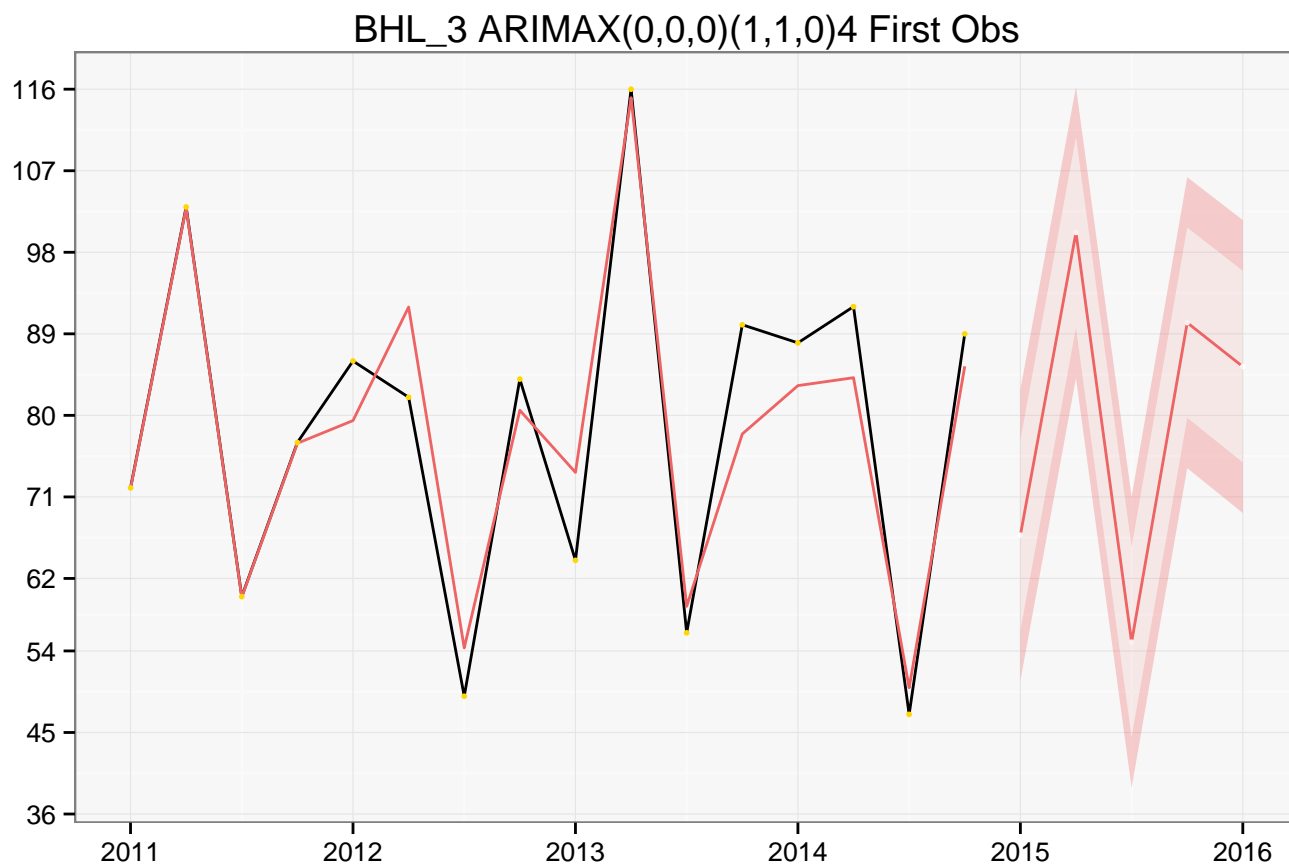


BHL\_3 ARIMAX(0,0,0)(0,1,1)4



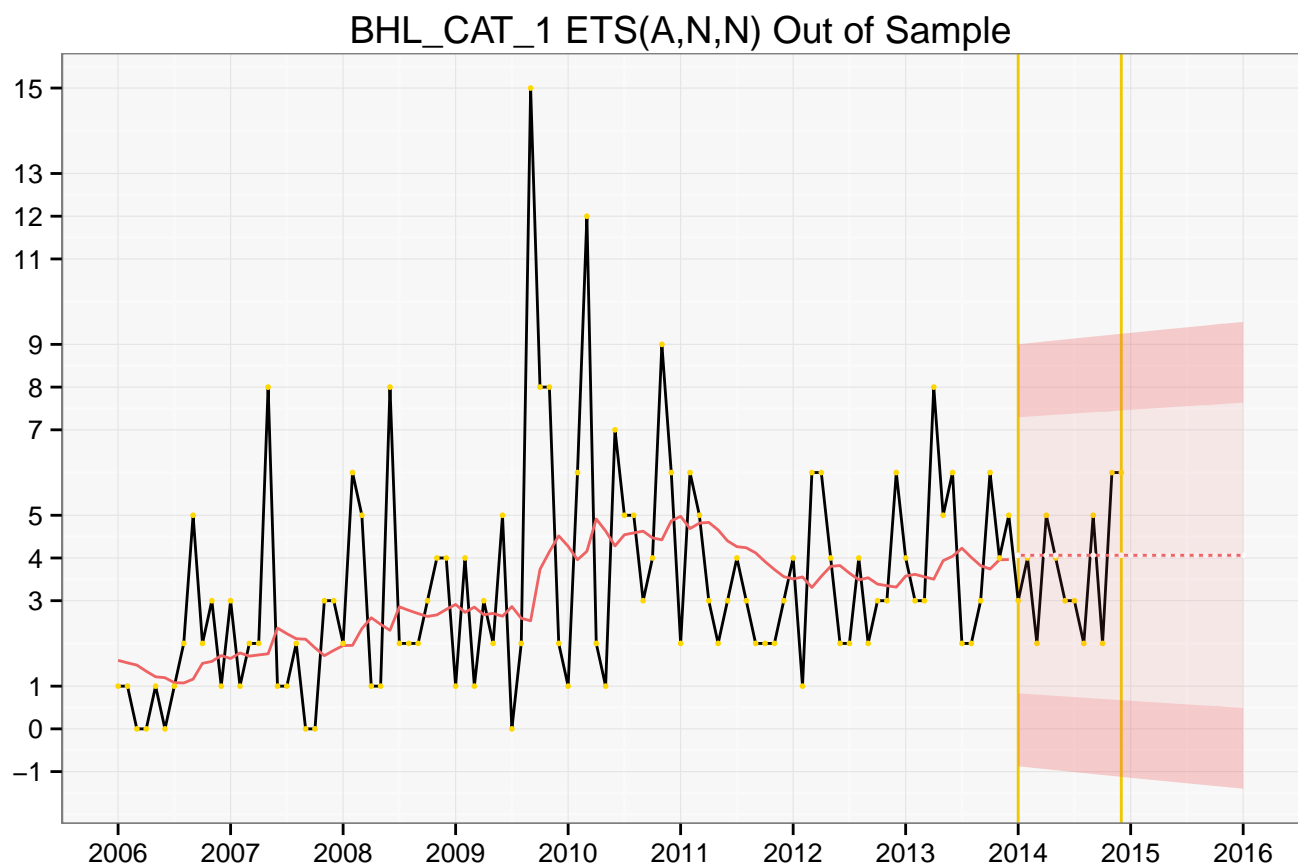
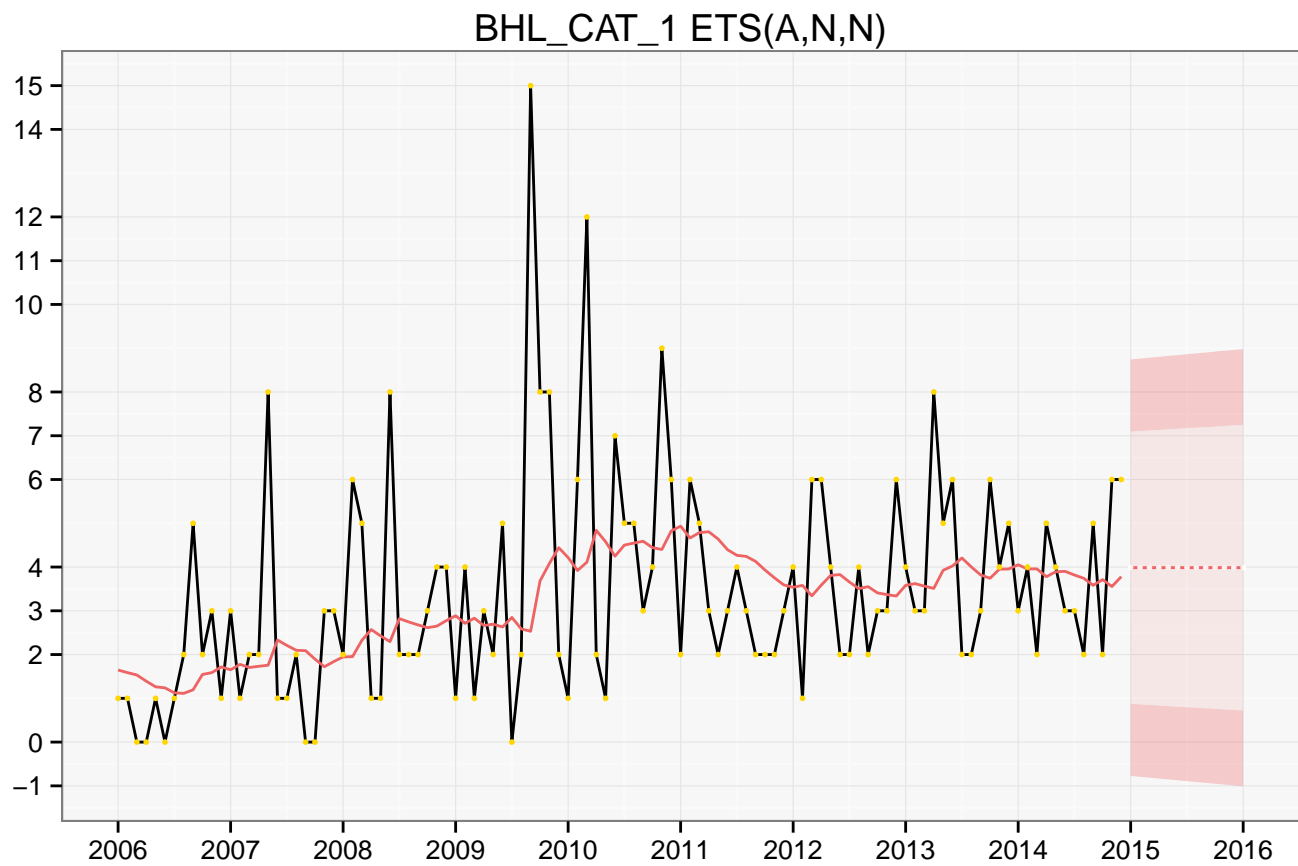
BHL\_3 ARIMAX(0,0,0)(0,1,1)4 Out of sample



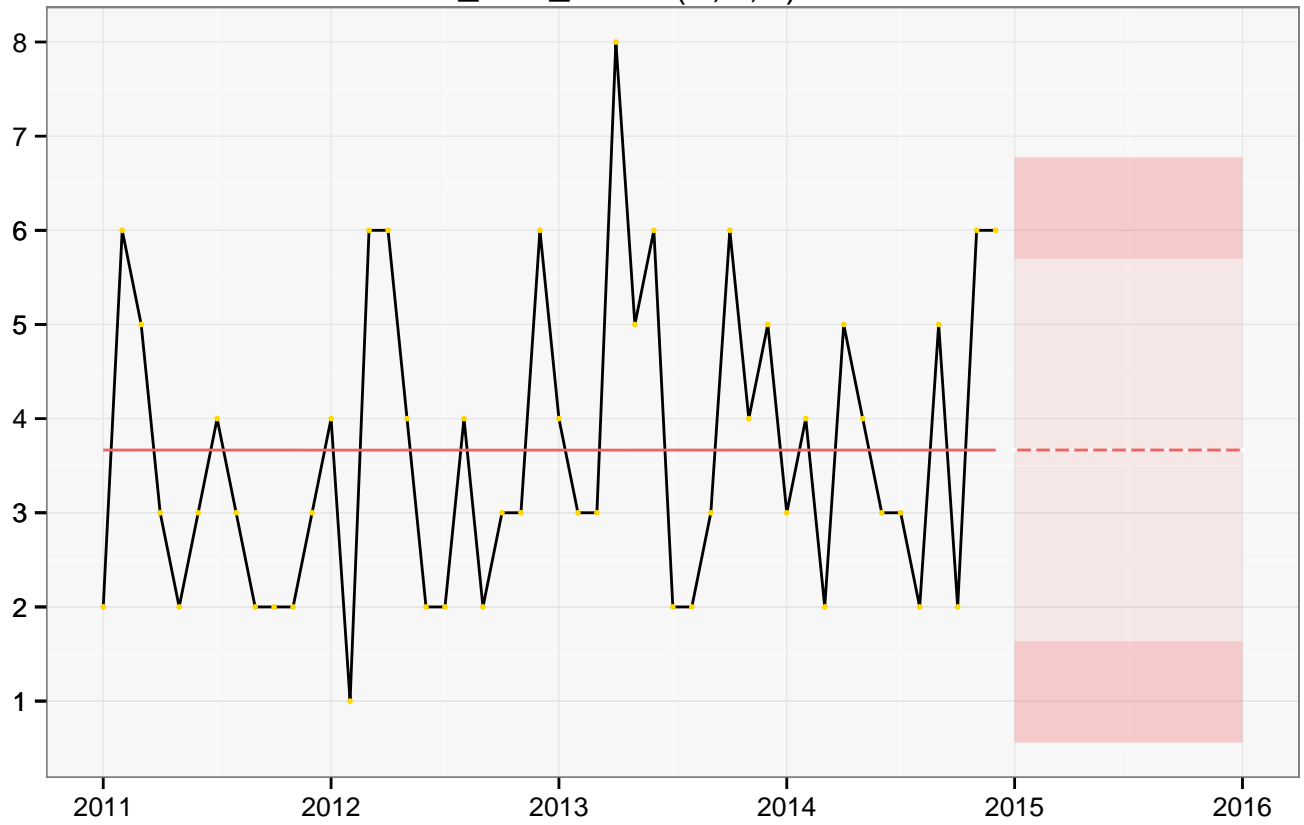


1.4 BHL\_CAT\_1

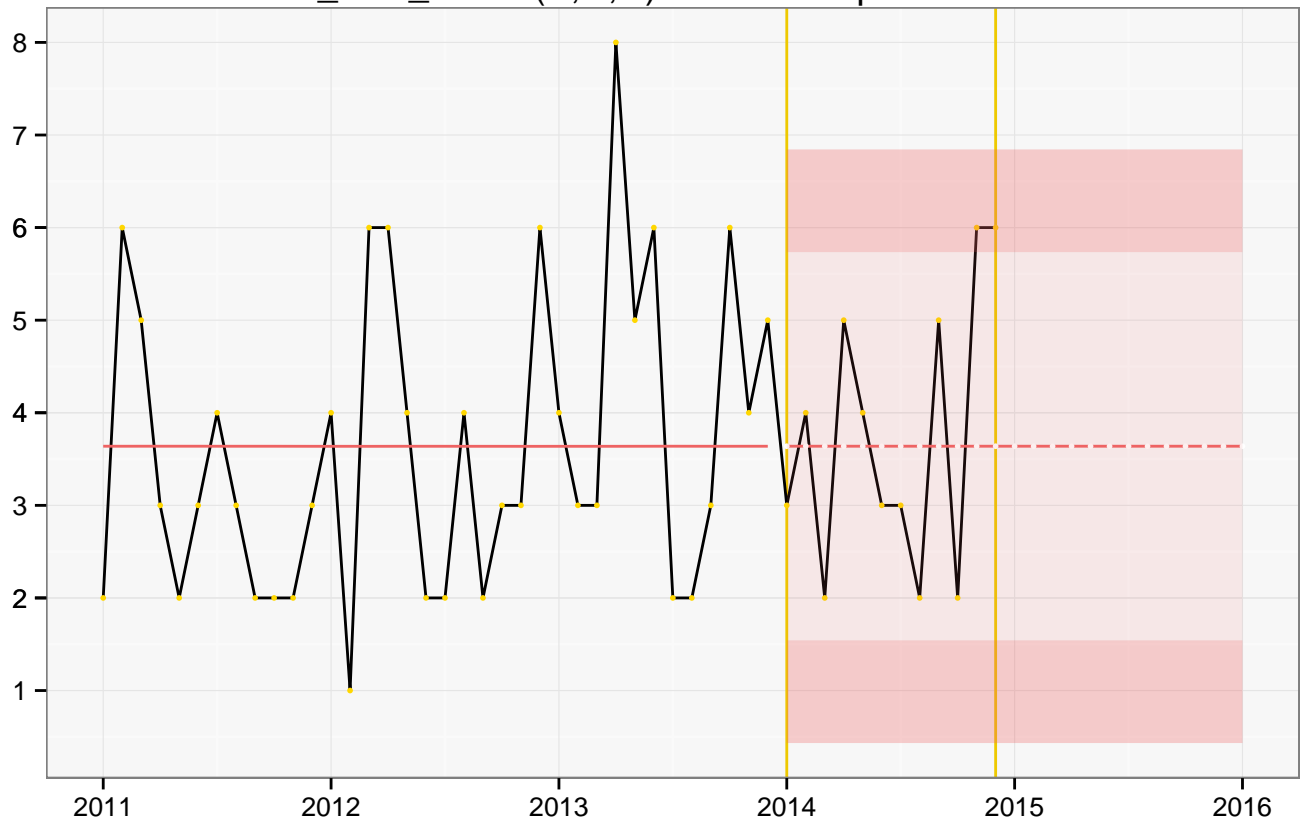
1.4.1 plots for BHL\_CAT\_1

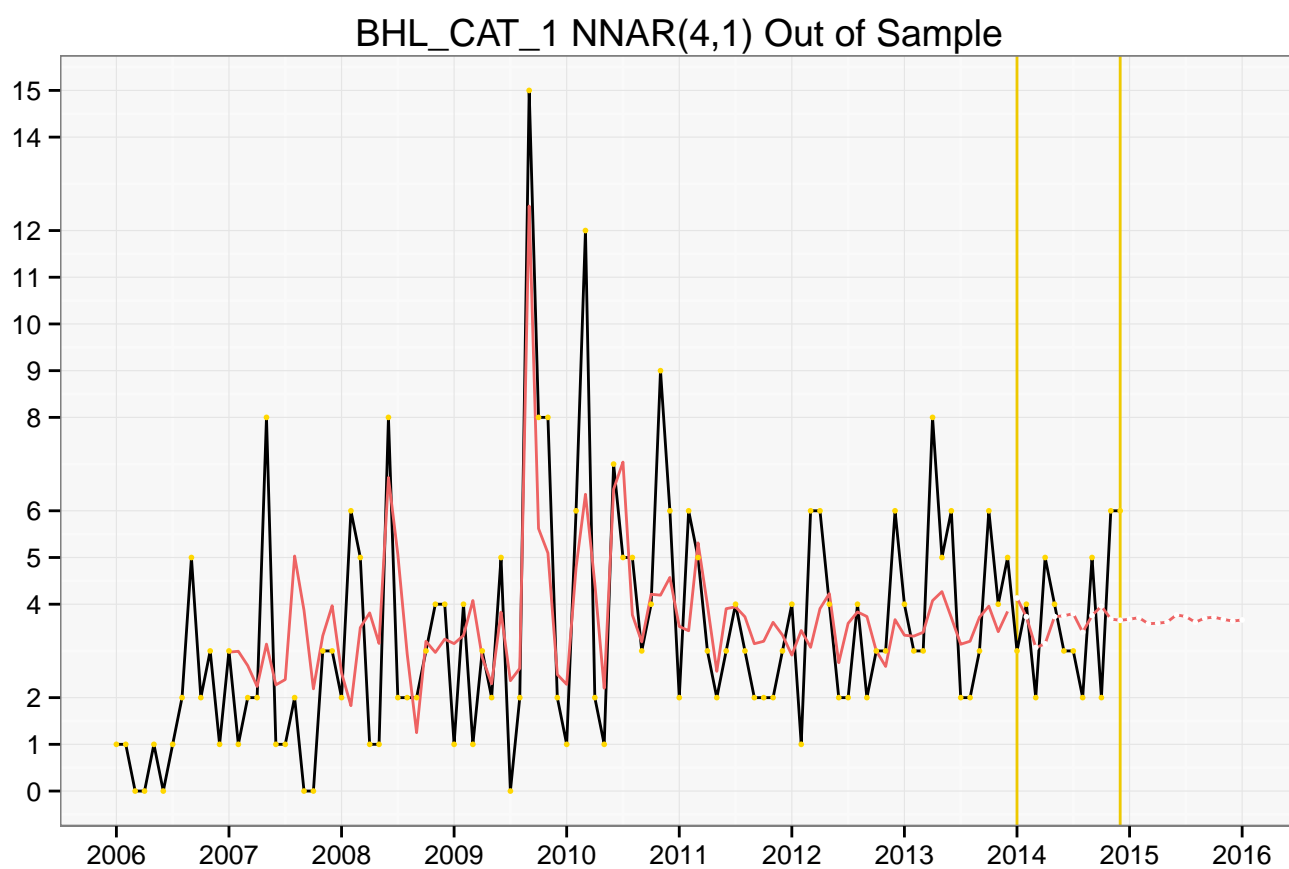
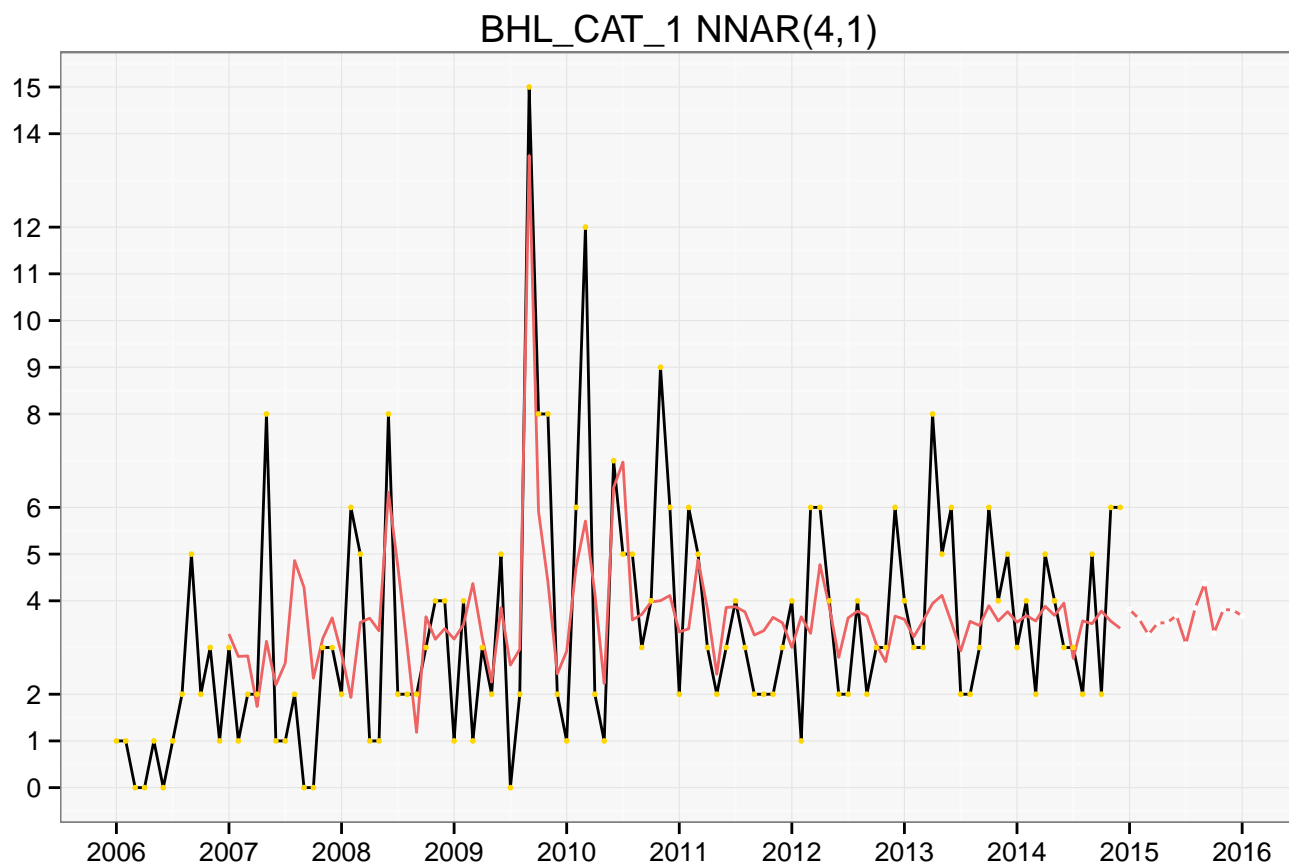


BHL\_CAT\_1 ETS(A,N,N) First Obs

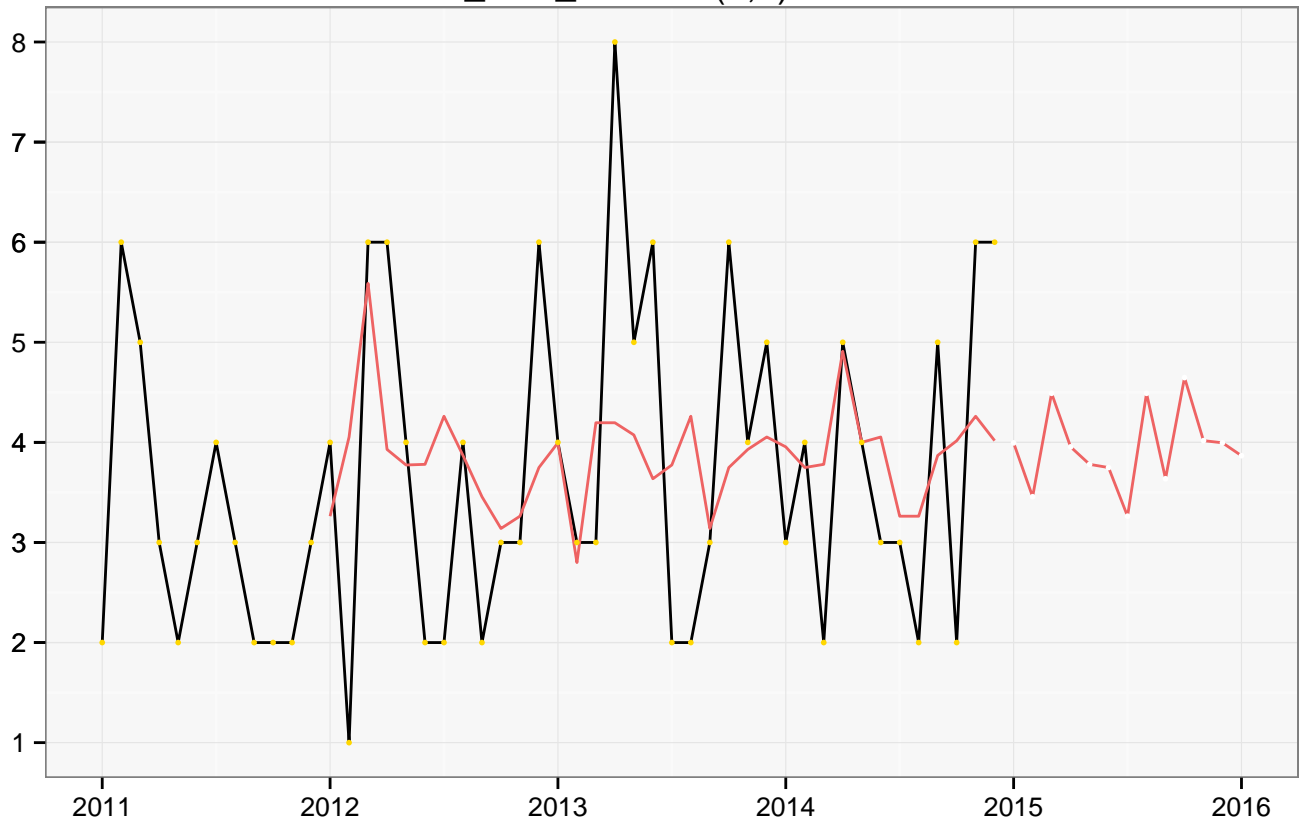


BHL\_CAT\_1 ETS(A,N,N) Out of Sample – First Obs

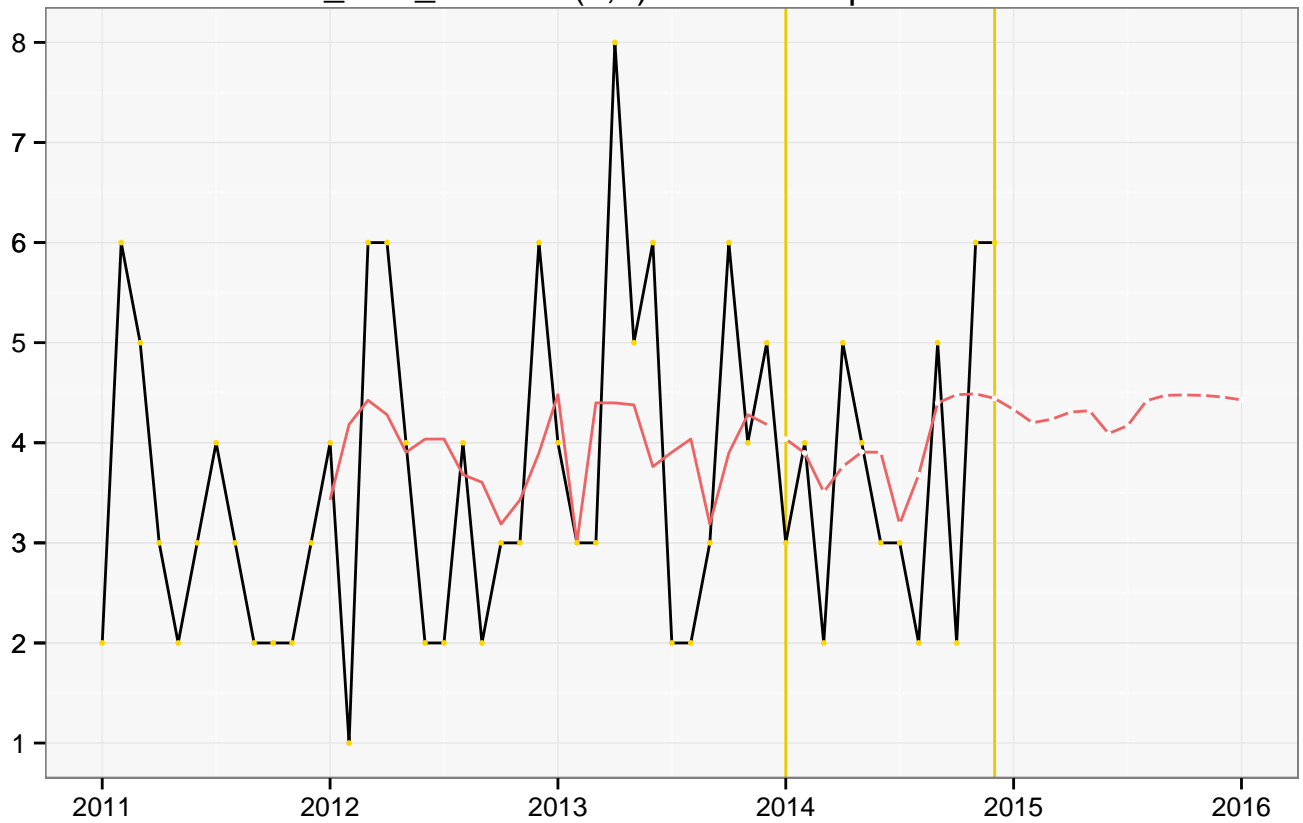




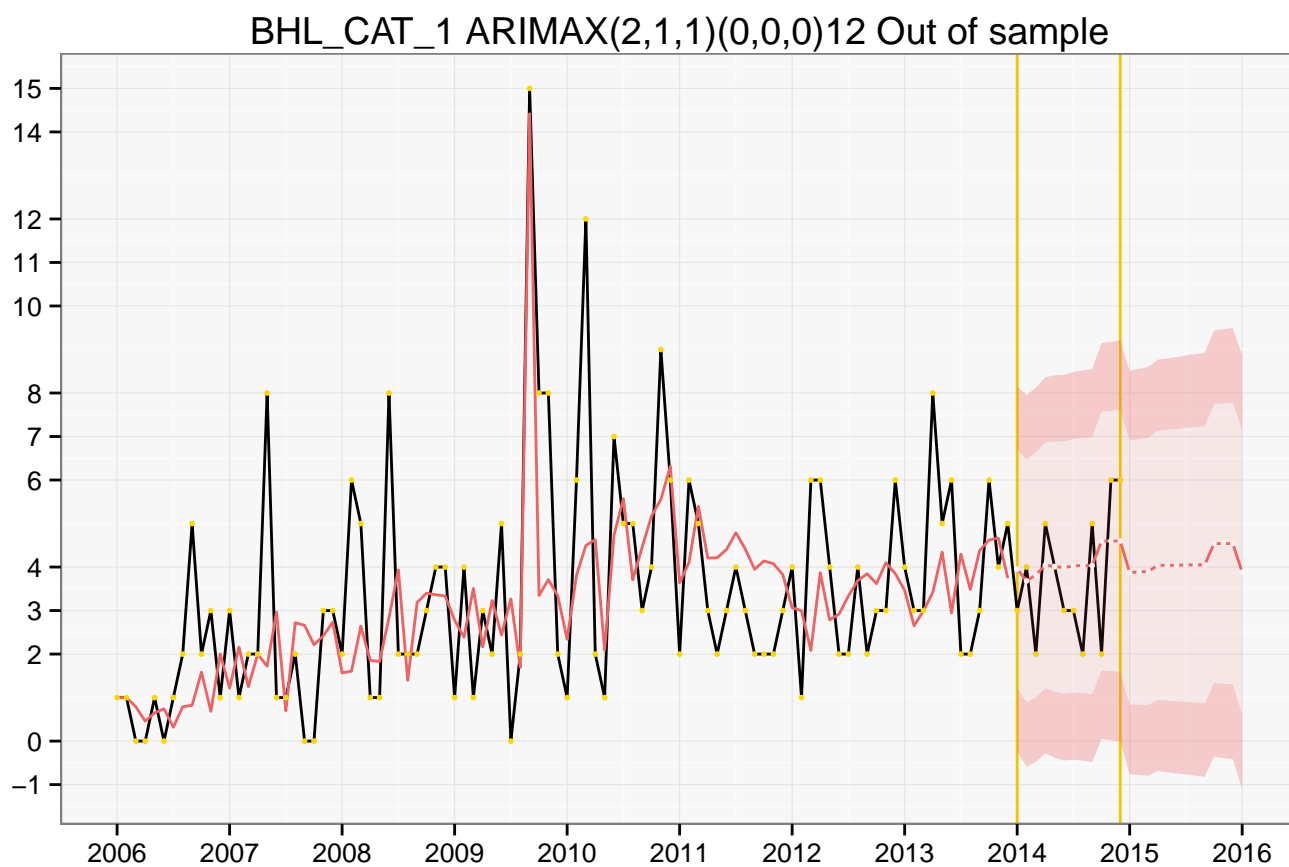
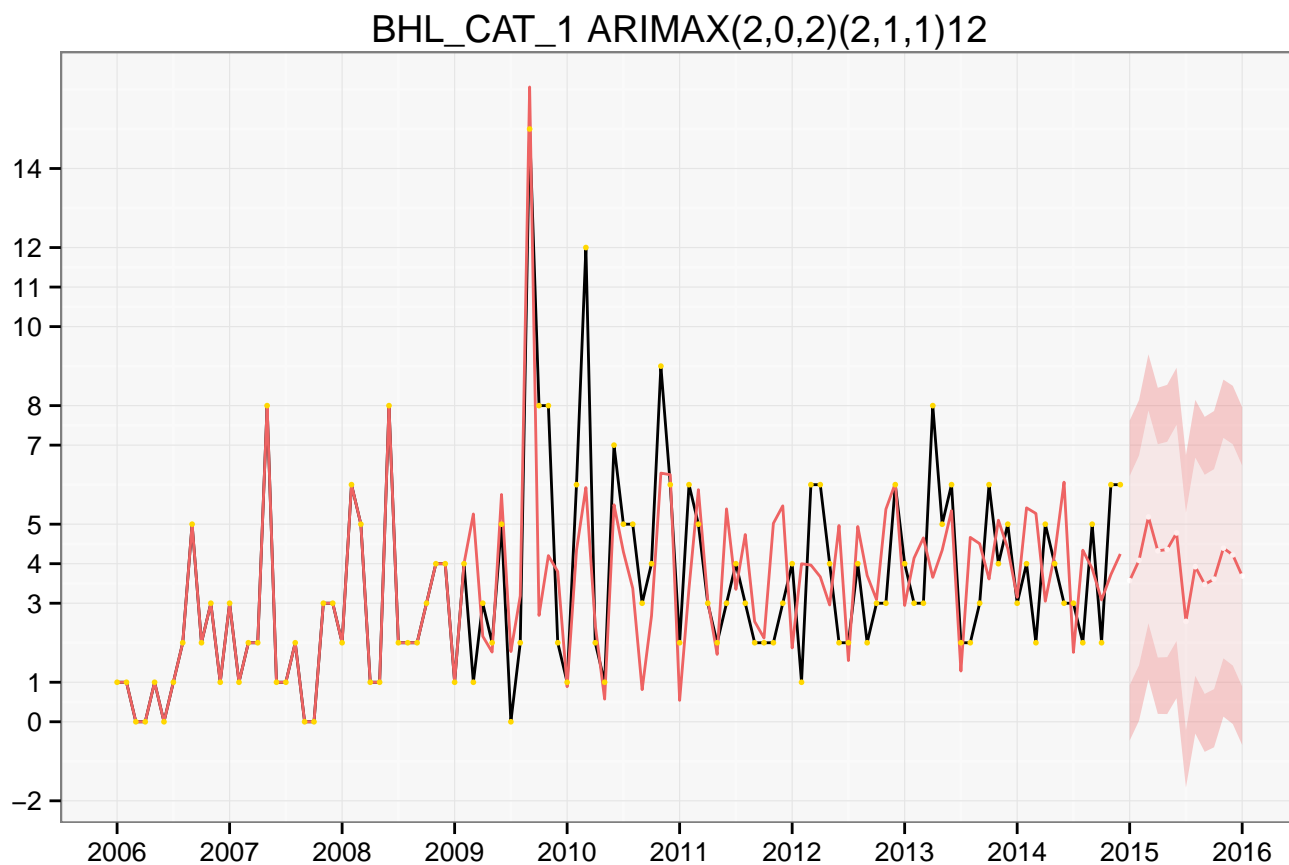
BHL\_CAT\_1 NNAR(1,1) First Obs



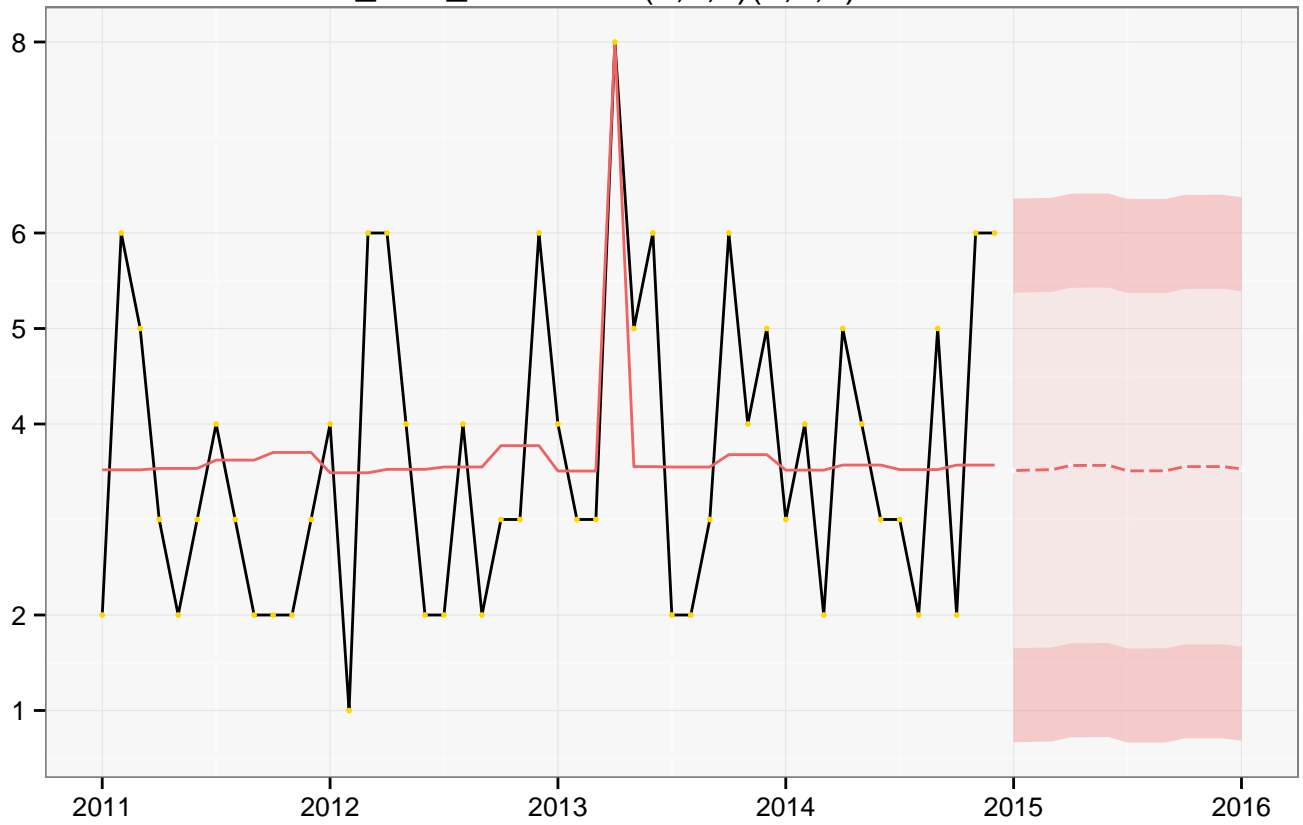
BHL\_CAT\_1 NNAR(1,1) Out of Sample – First Obs



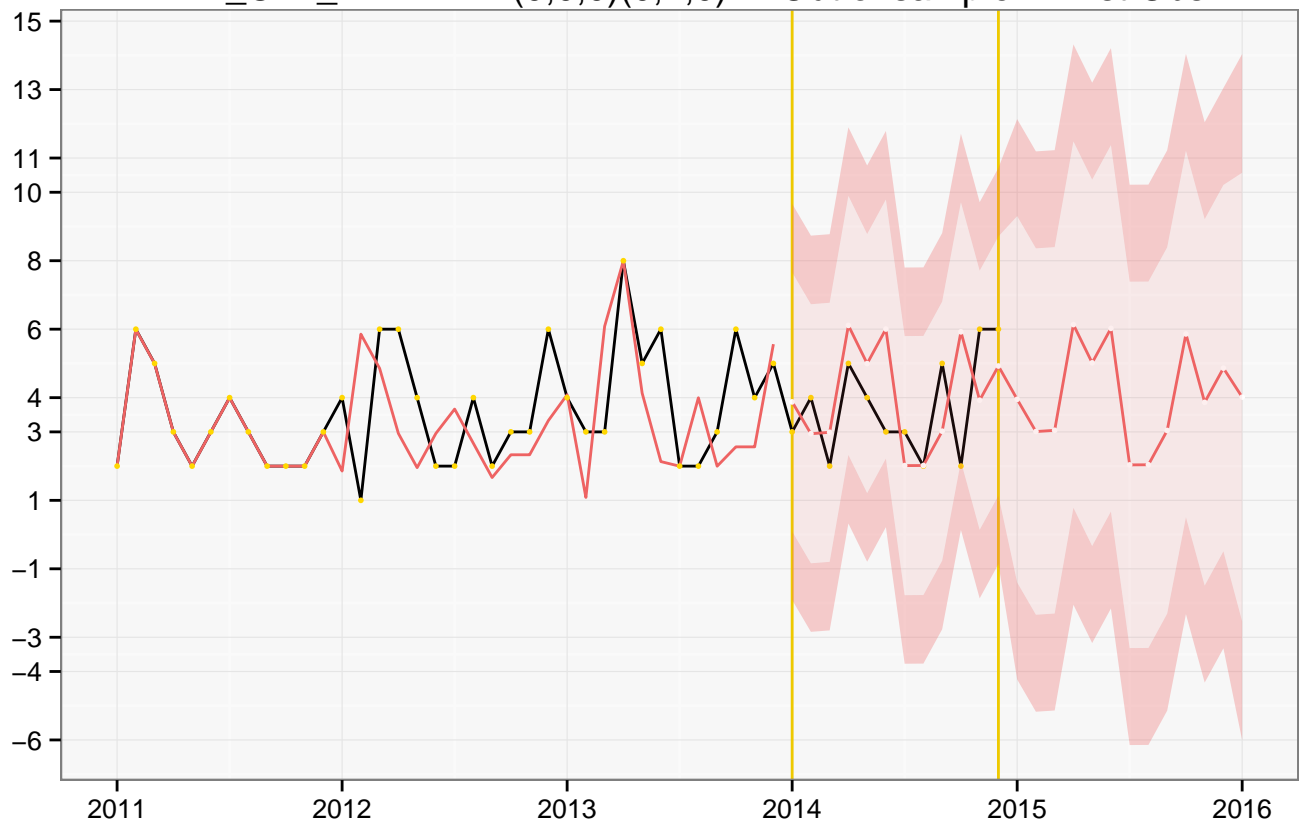




BHL\_CAT\_1 ARIMAX(0,0,0)(0,0,0)12 First Obs

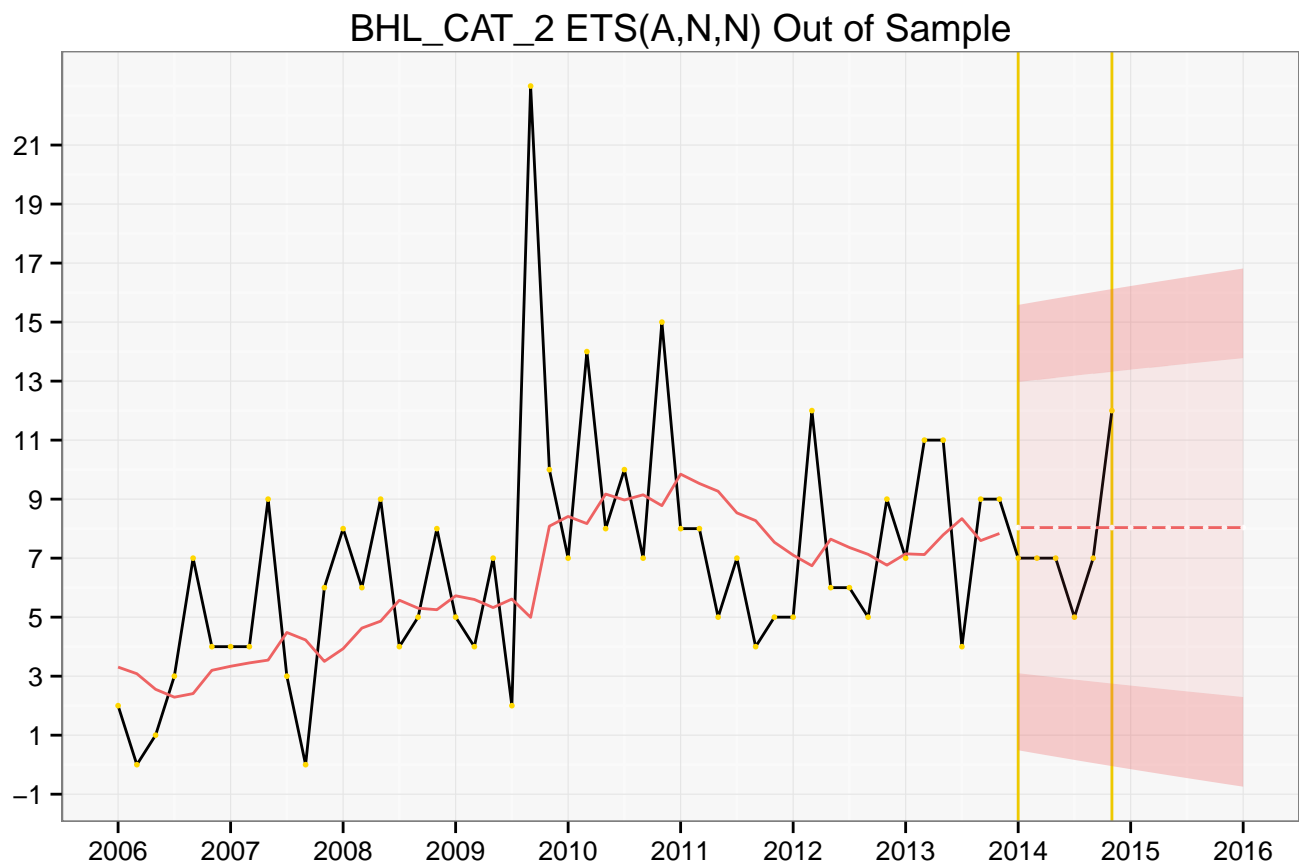
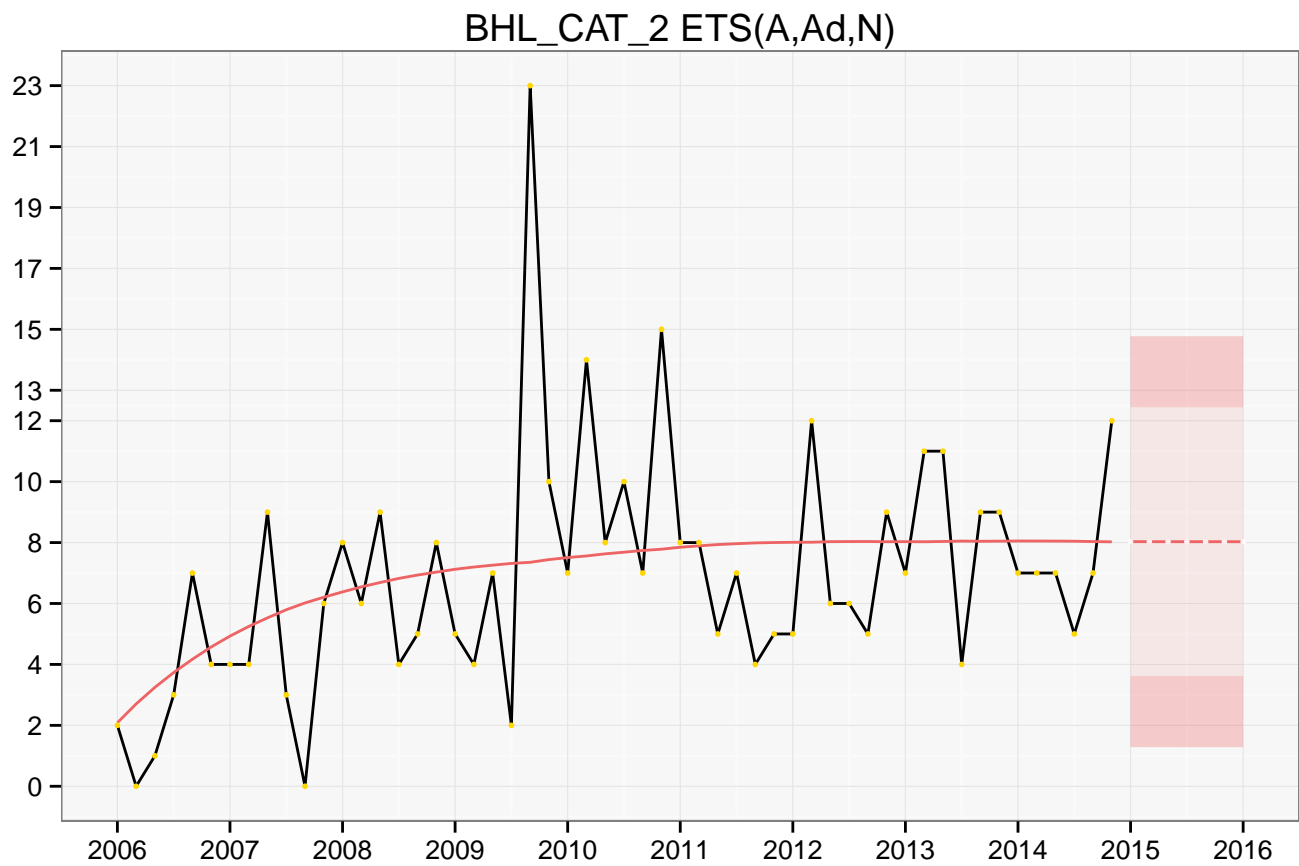


BHL\_CAT\_1 ARIMAX(0,0,0)(0,1,0)12 Out of sample – First Obs

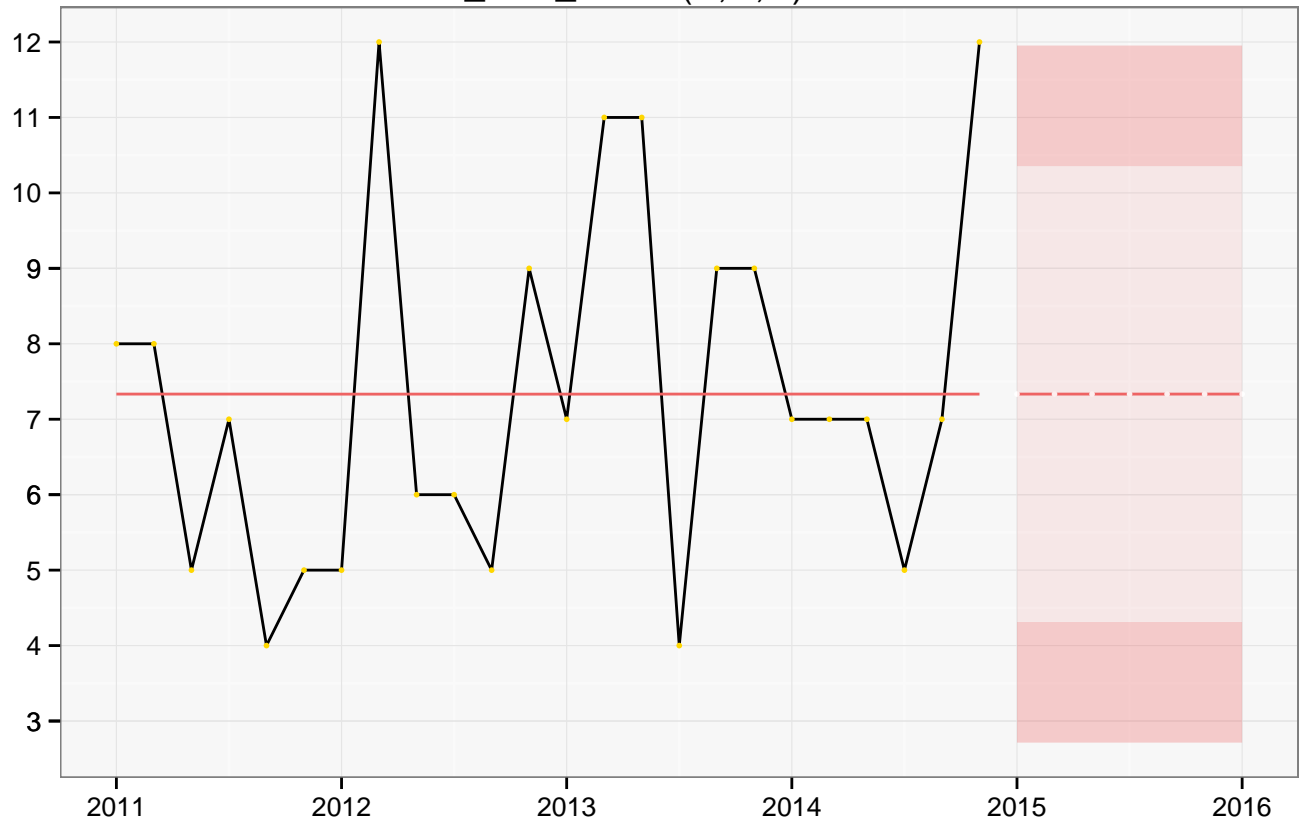


1.5 BHL\_CAT\_2

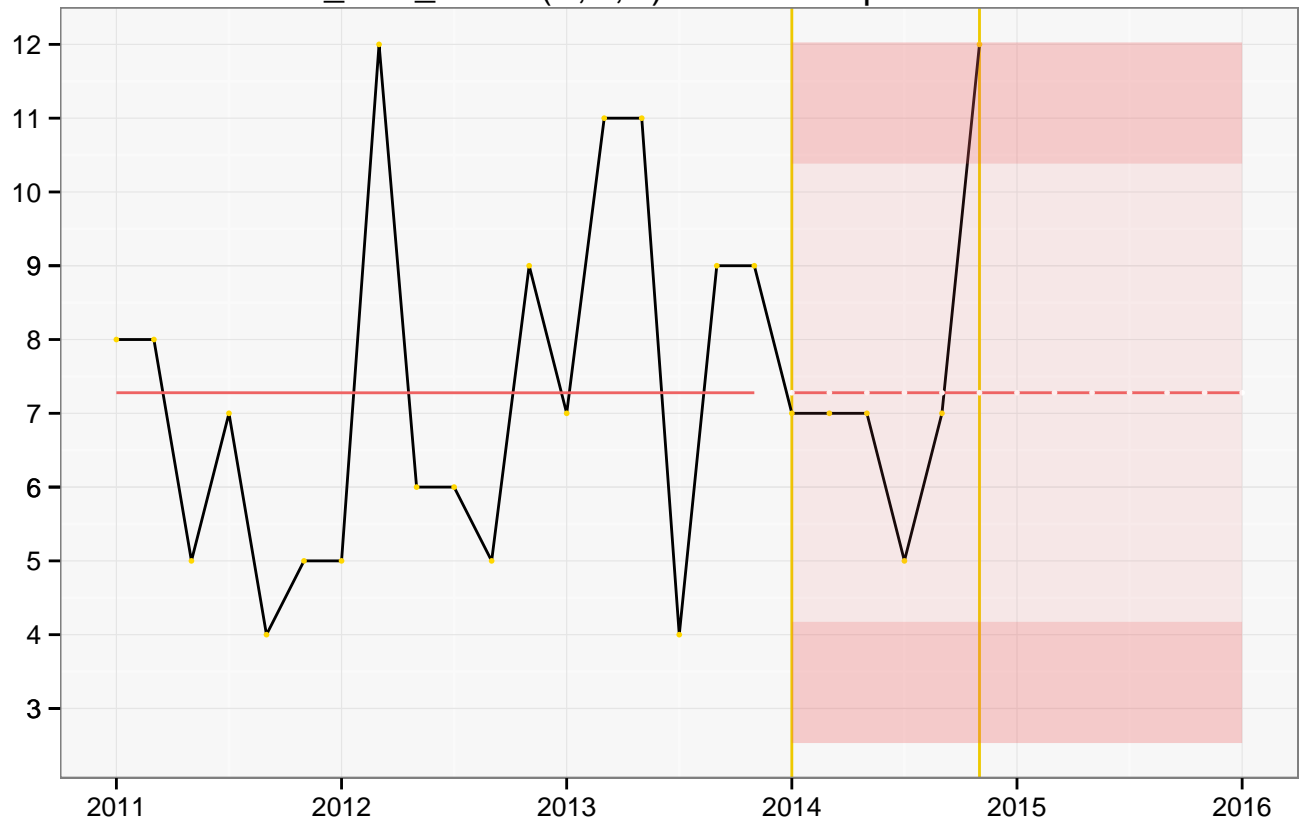
1.5.1 plots for BHL\_CAT\_2

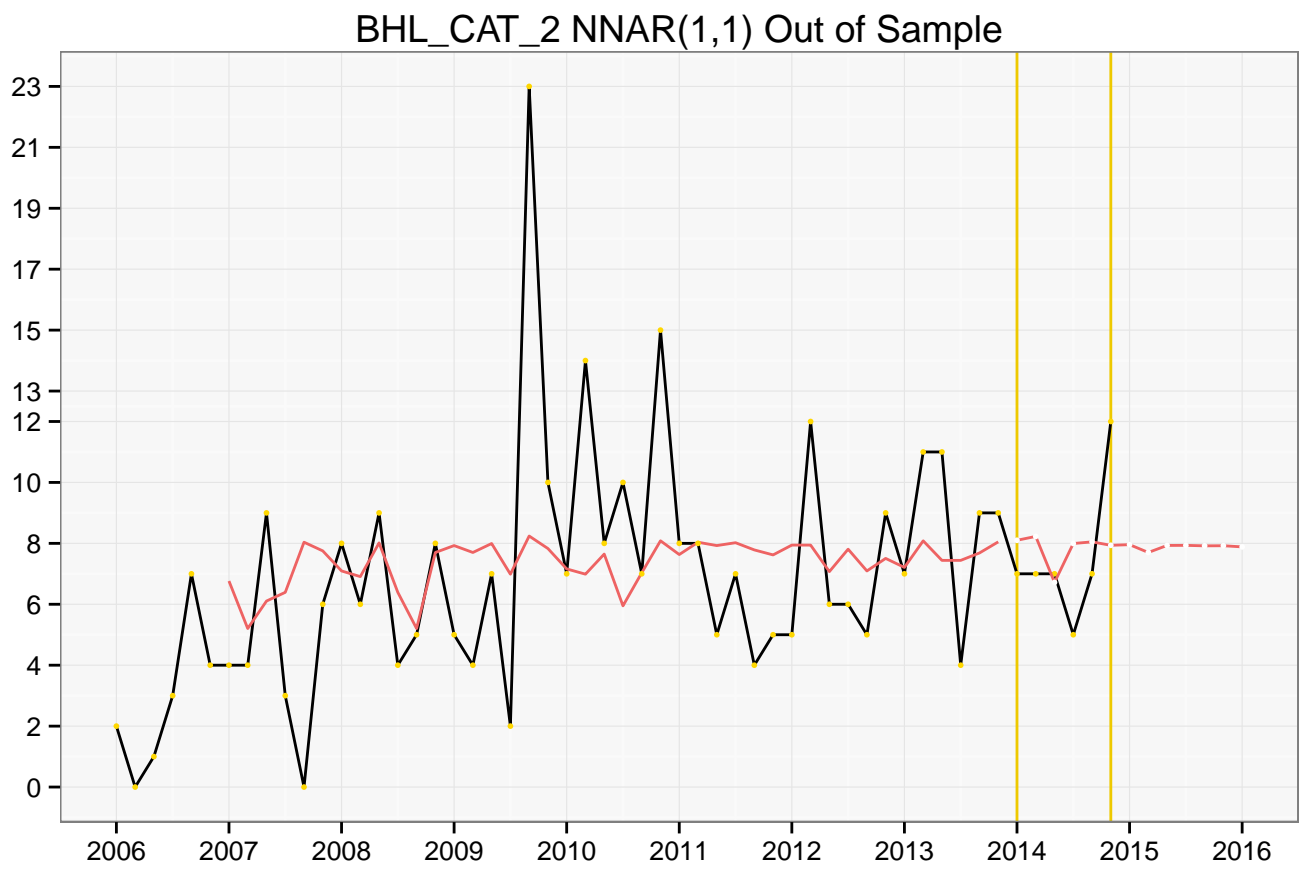
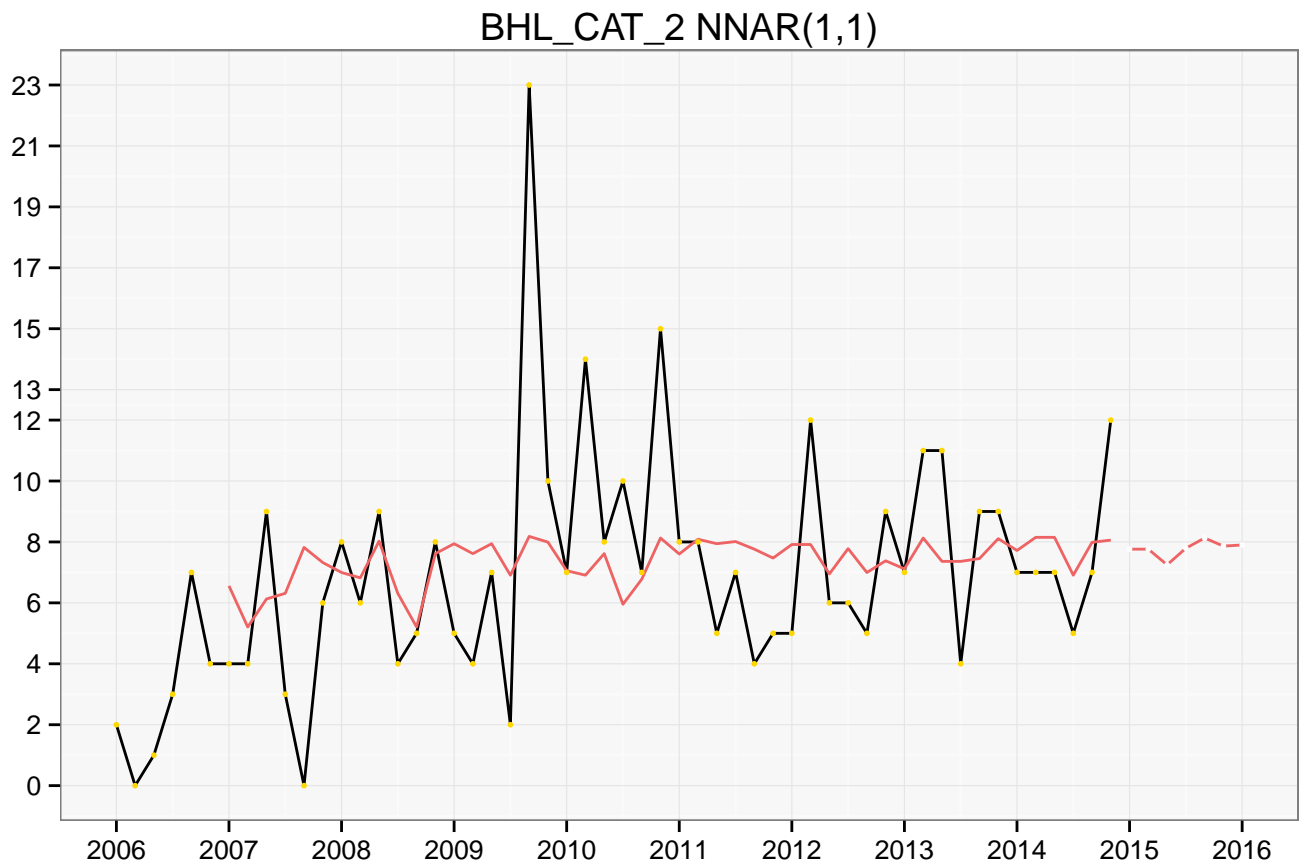


BHL\_CAT\_2 ETS(A,N,N) First Obs

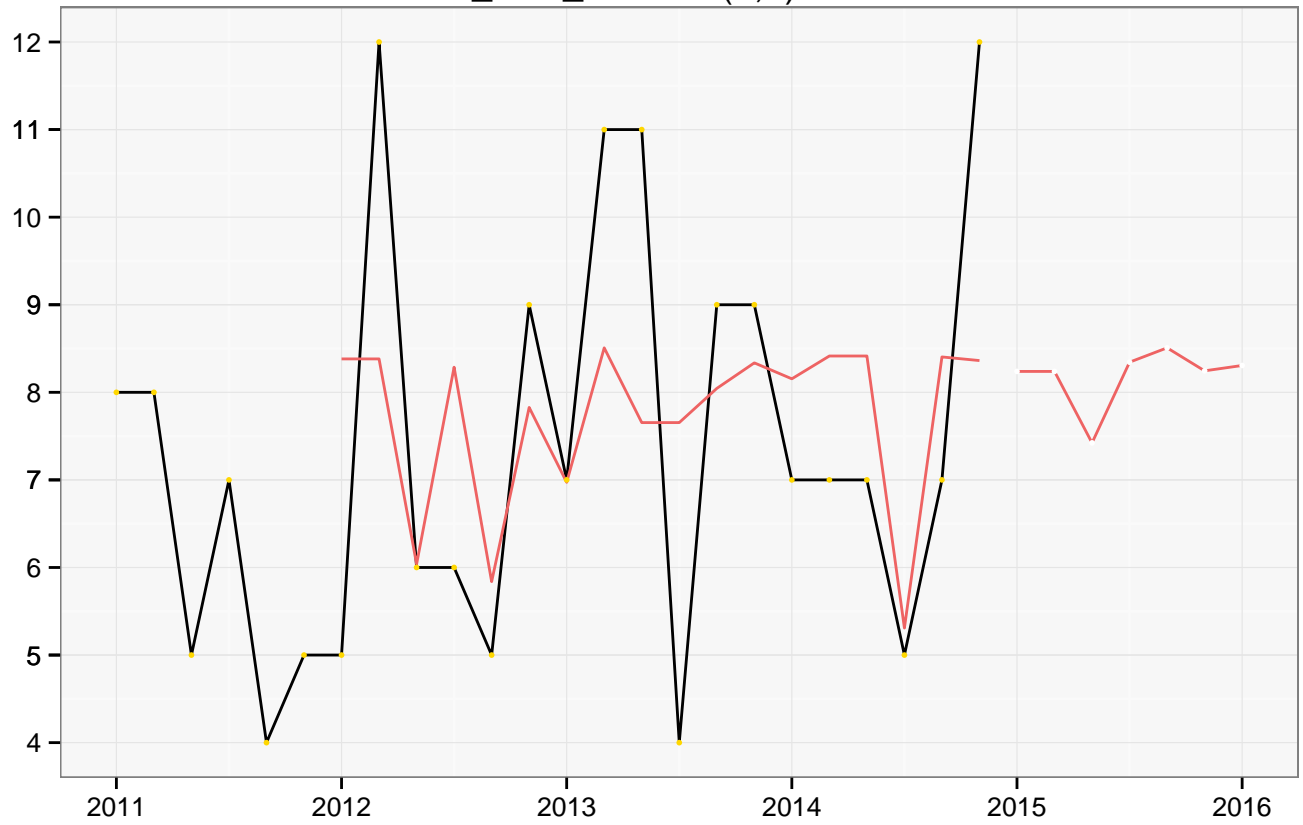


BHL\_CAT\_2 ETS(A,N,N) Out of Sample – First Obs

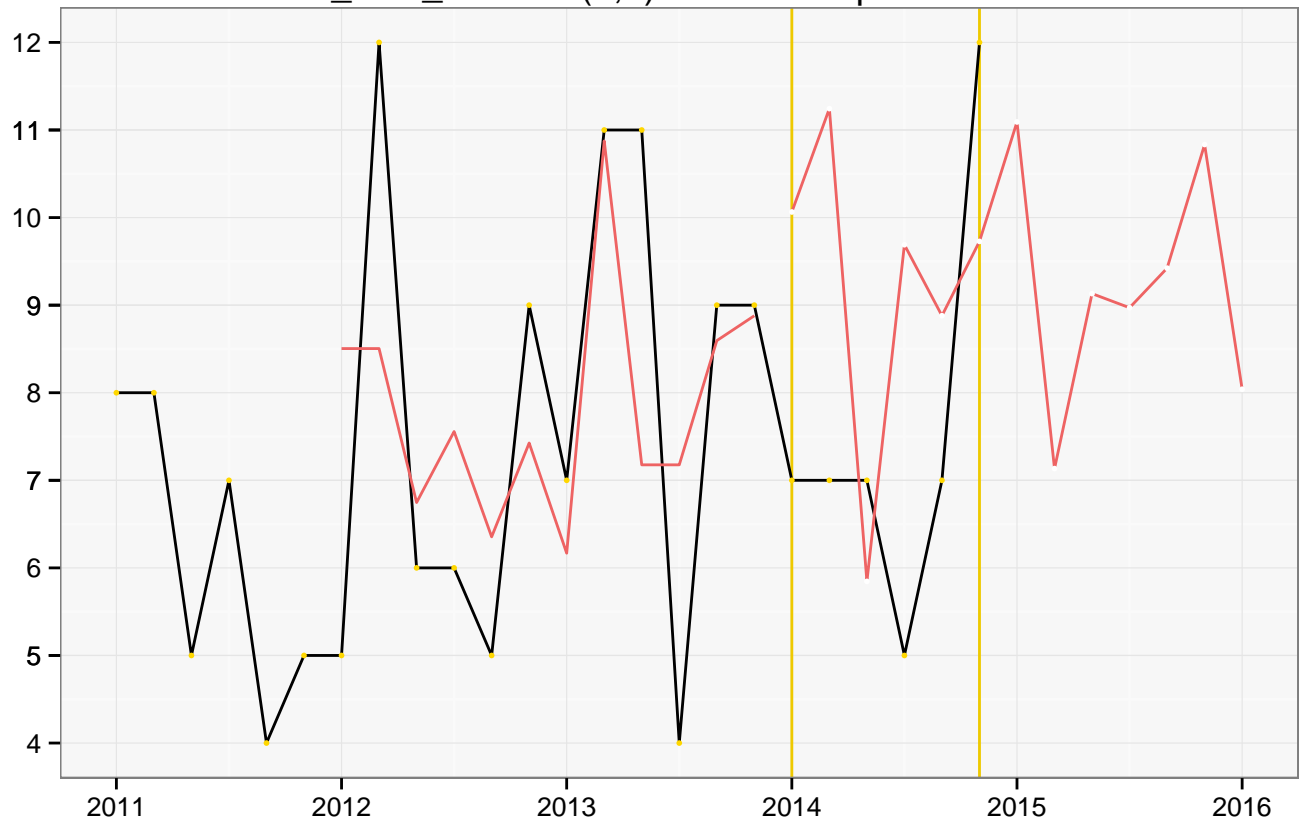




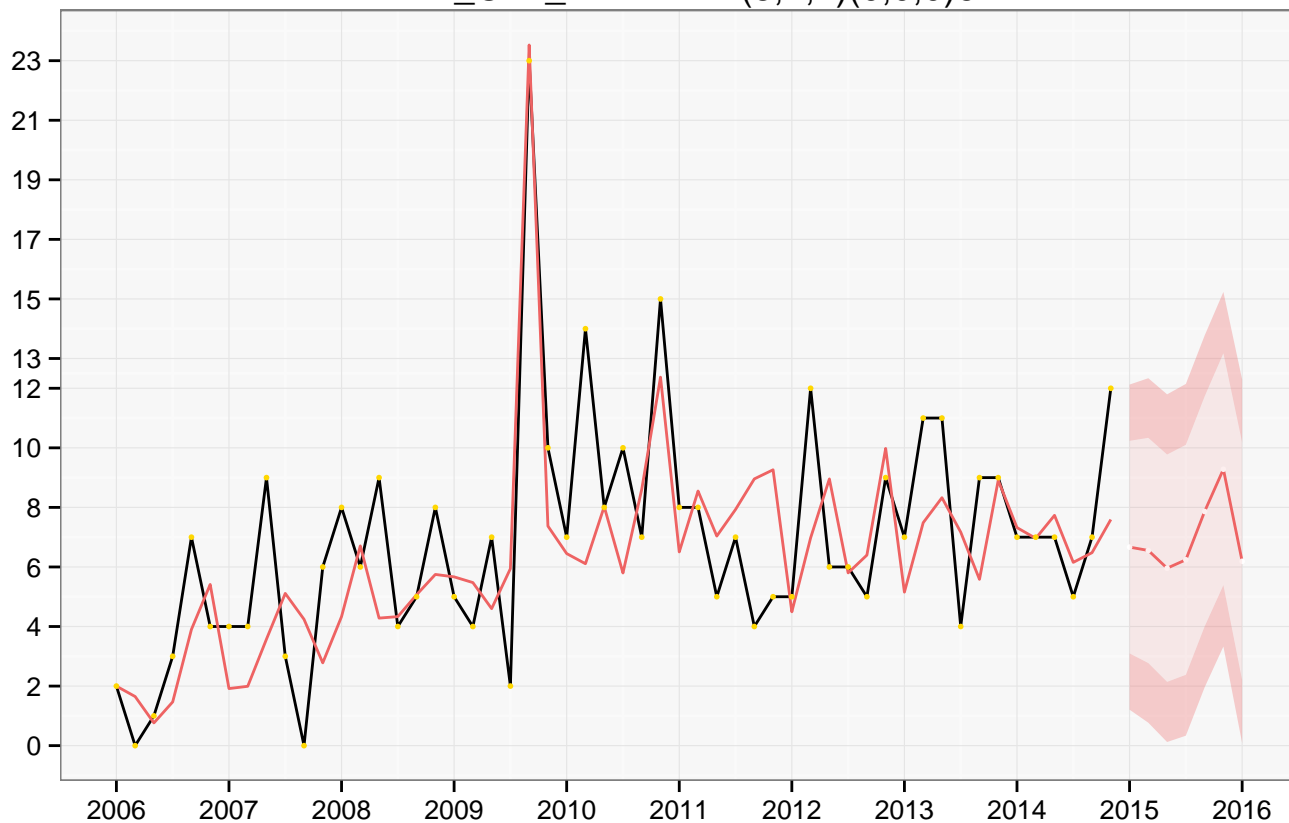
BHL\_CAT\_2 NNAR(1,1) First Obs



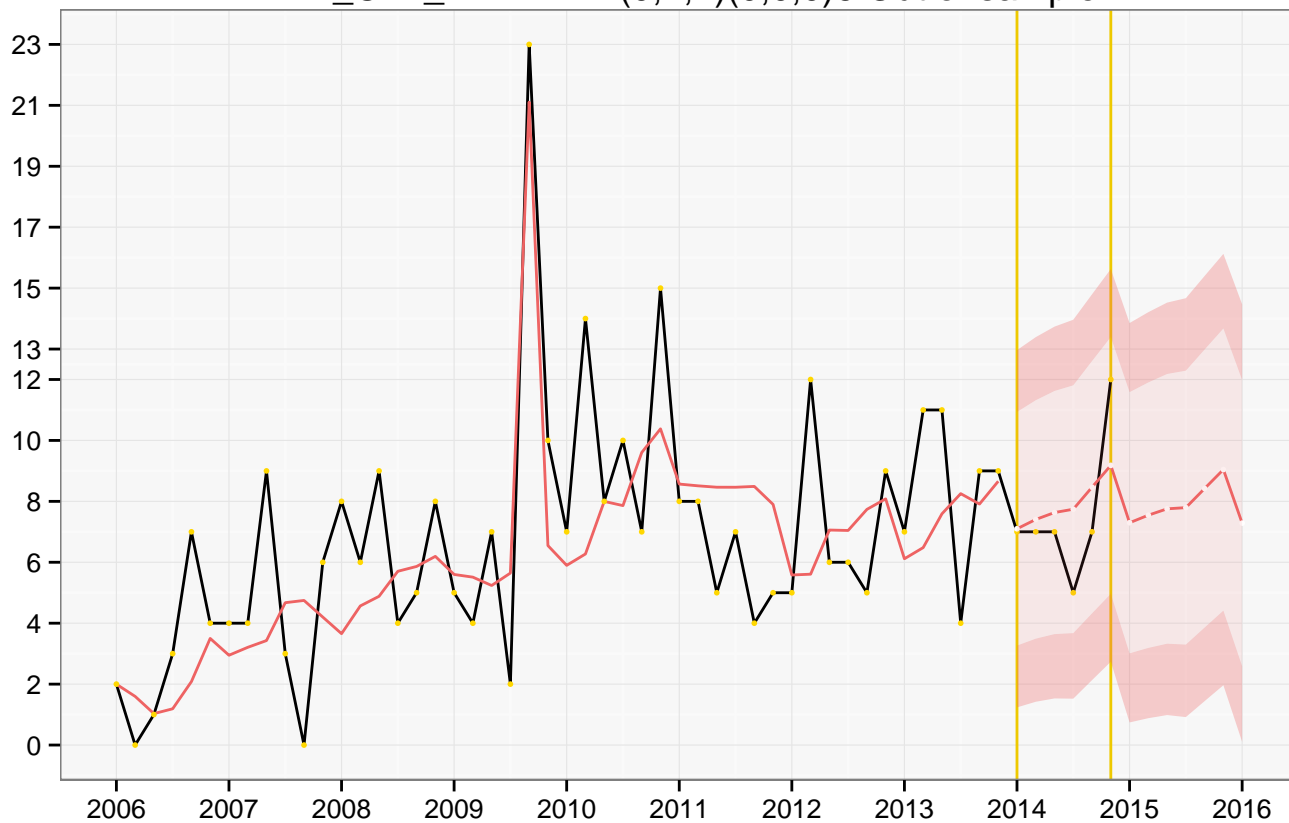
BHL\_CAT\_2 NNAR(1,1) Out of Sample – First Obs



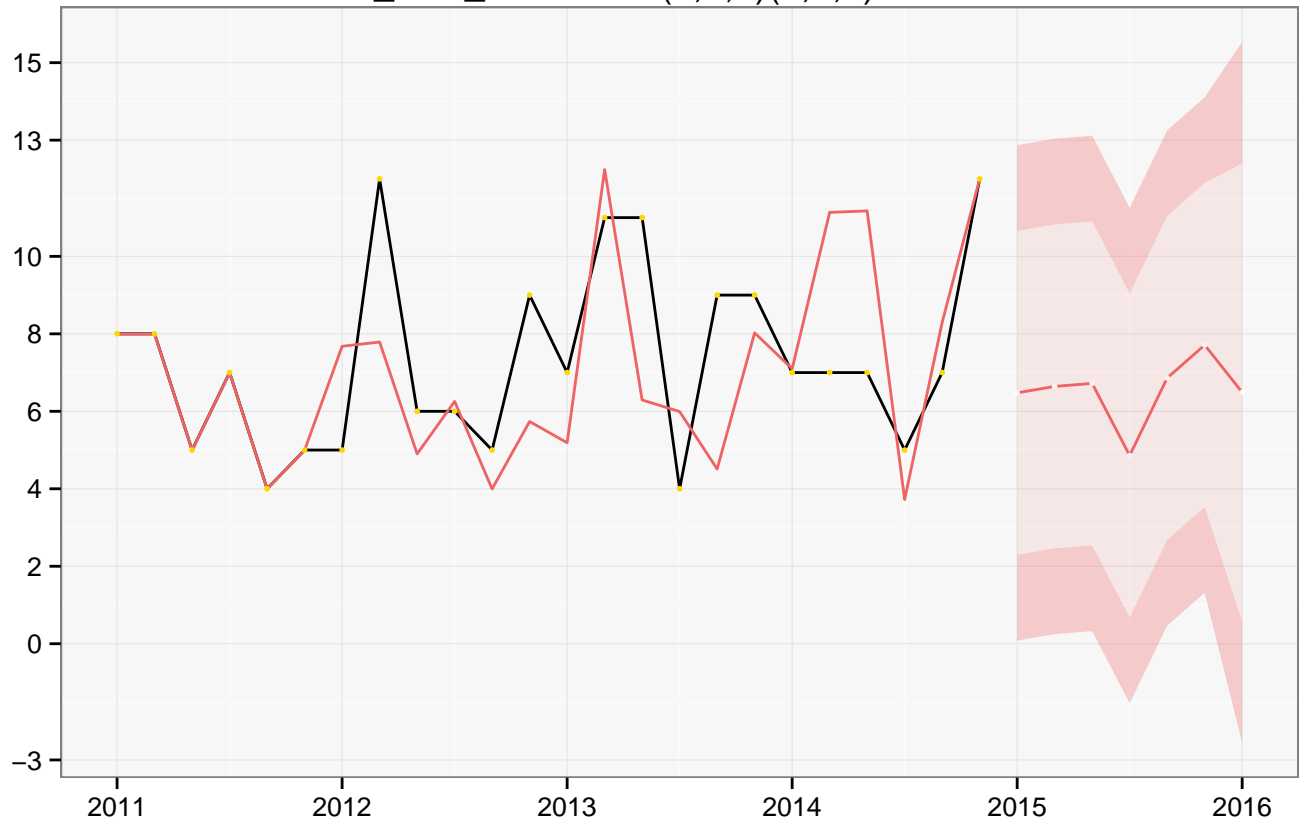
BHL\_CAT\_2 ARIMAX(3,1,1)(0,0,0)6



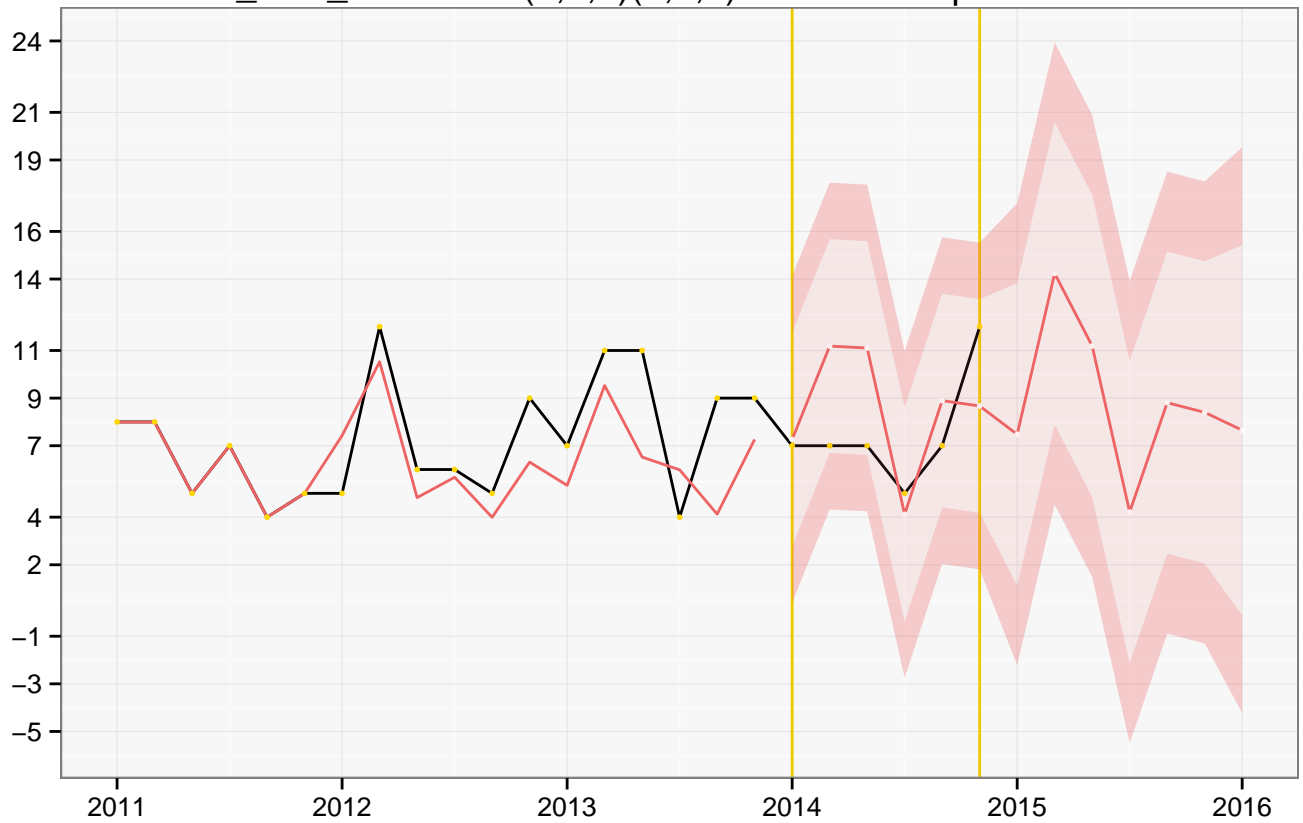
BHL\_CAT\_2 ARIMAX(0,1,1)(0,0,0)6 Out of sample



BHL\_CAT\_2 ARIMAX(0,0,0)(0,1,0)6 First Obs



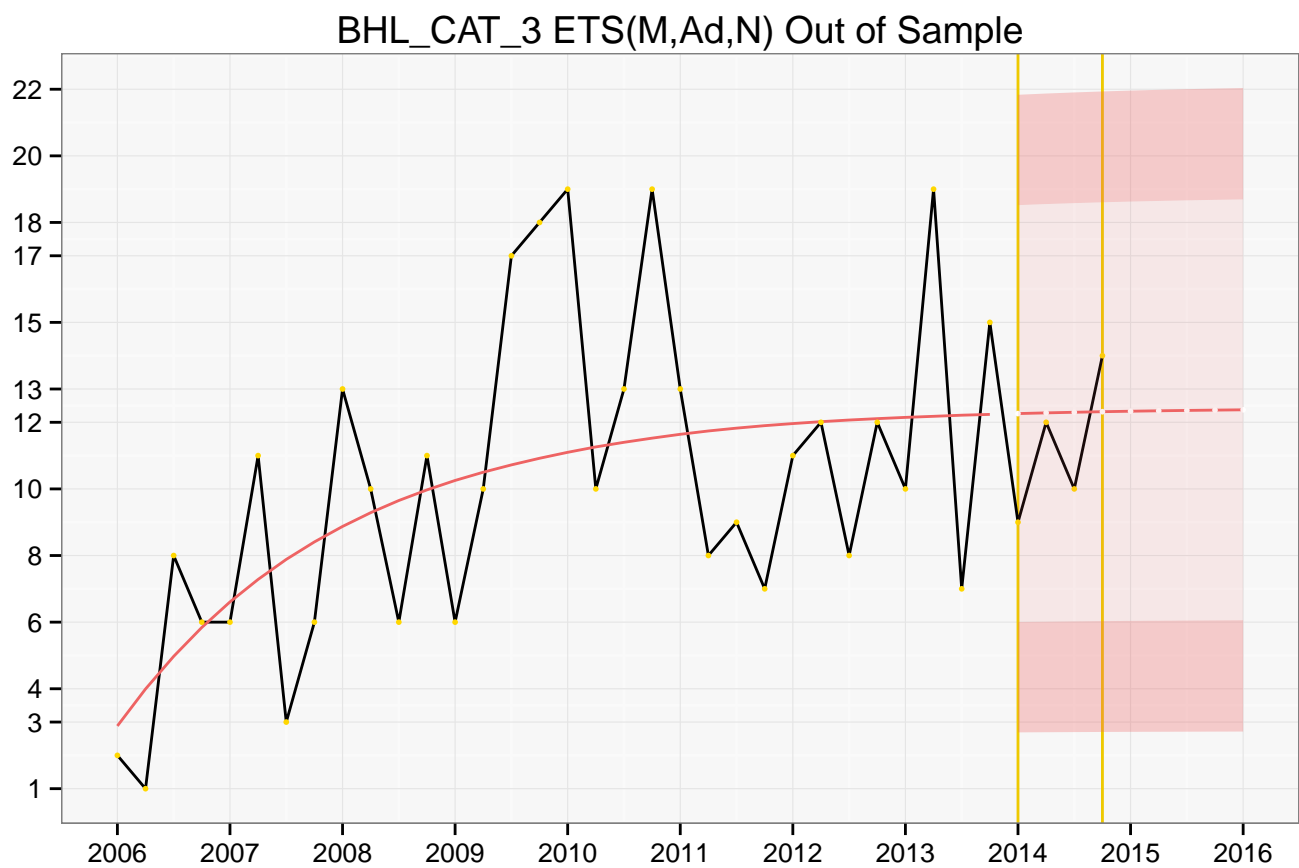
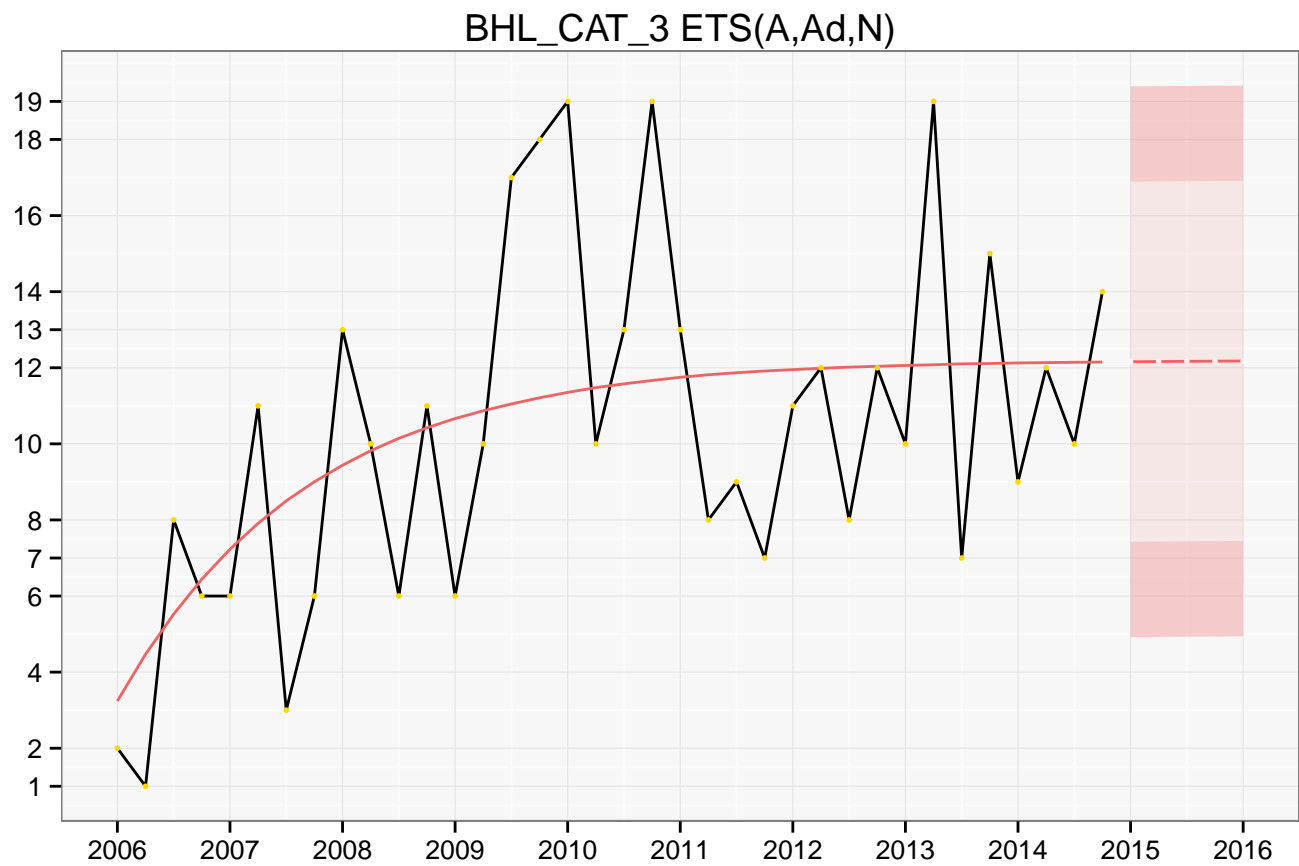
BHL\_CAT\_2 ARIMAX(0,0,0)(0,1,0)6 Out of sample – First Obs

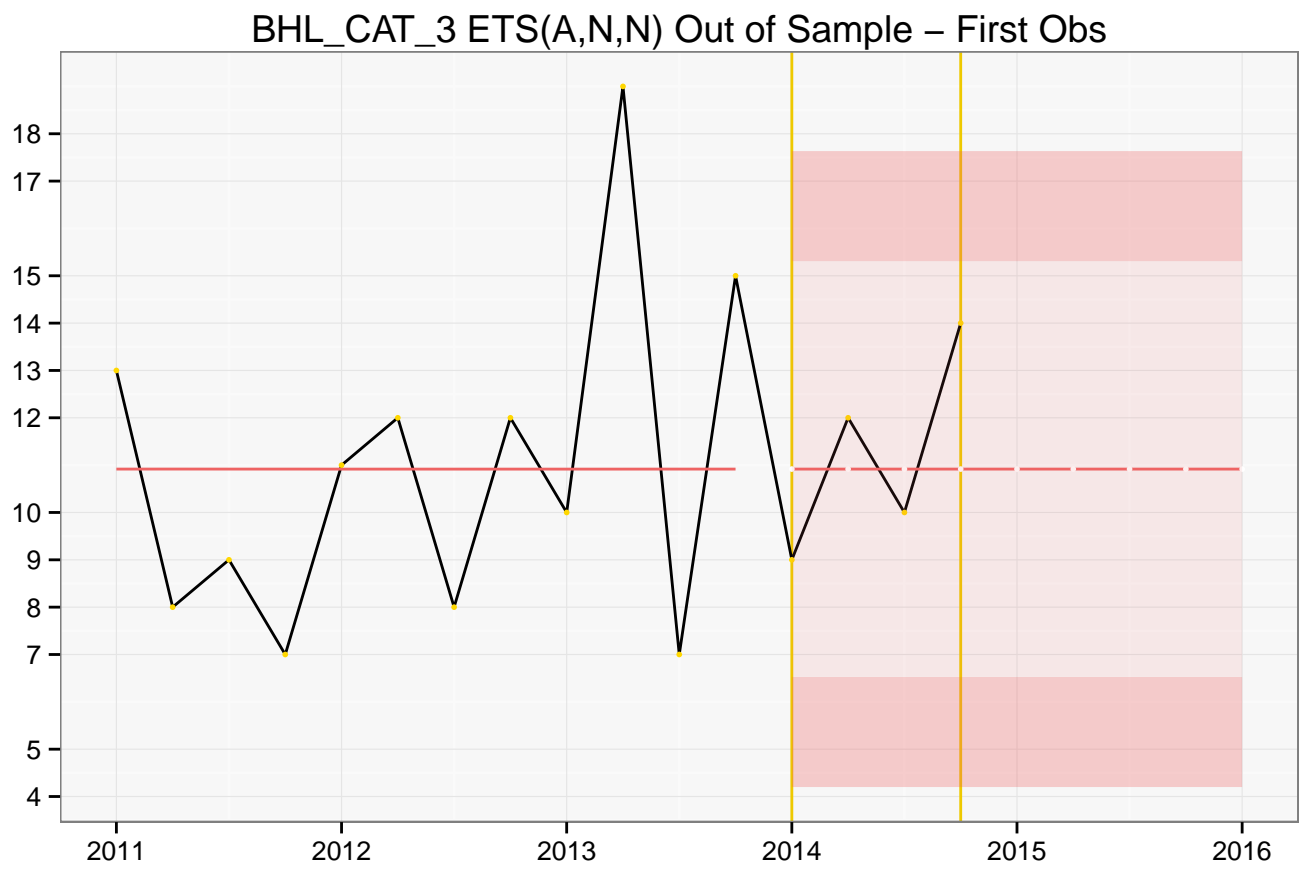
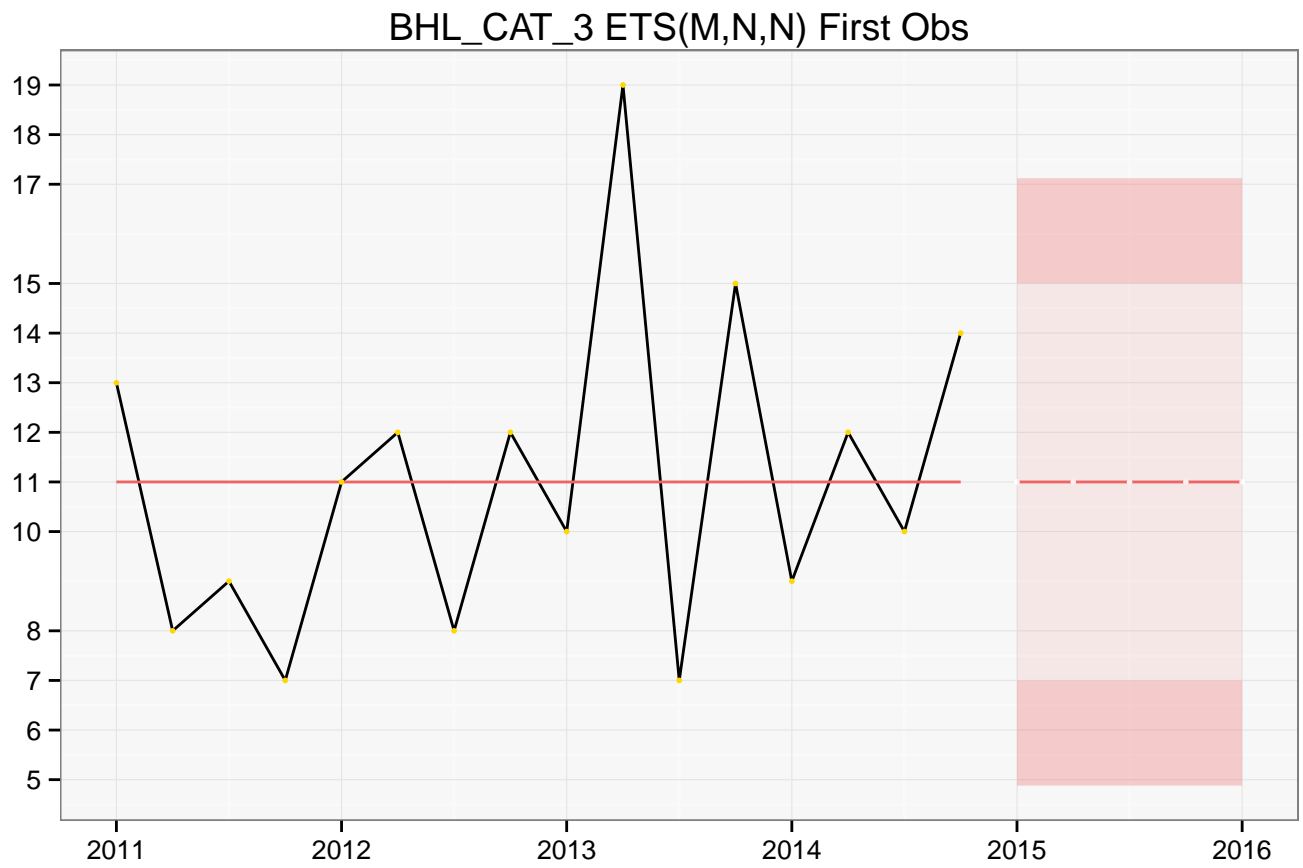


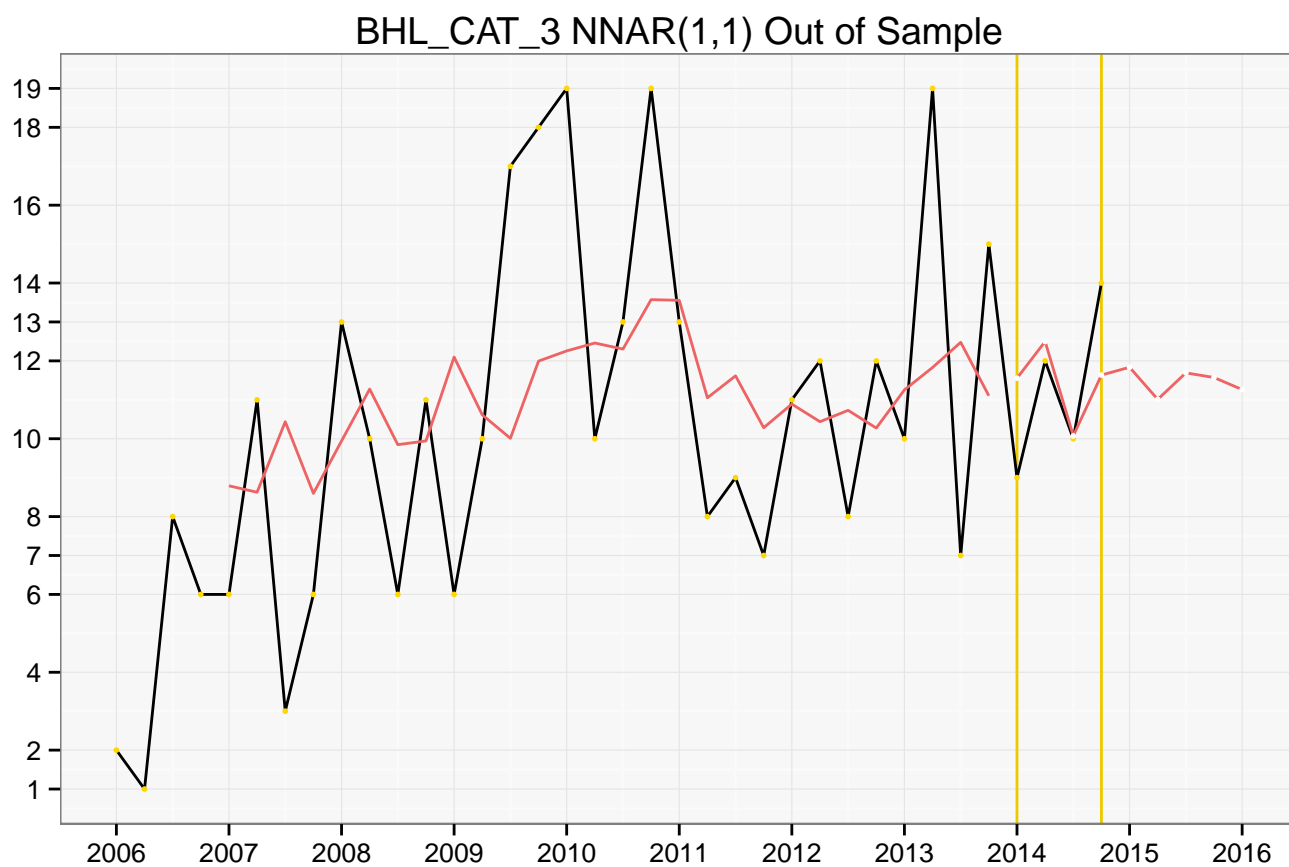
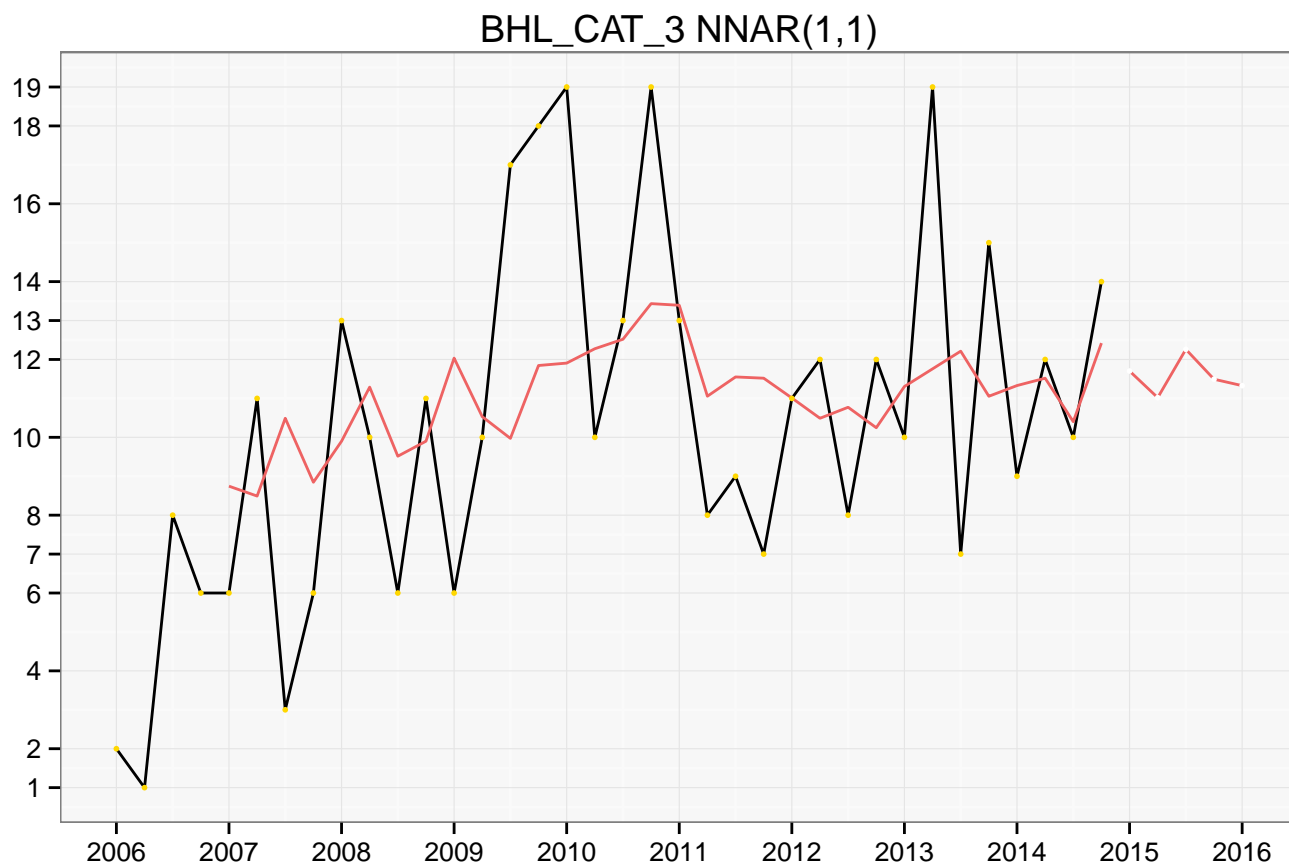


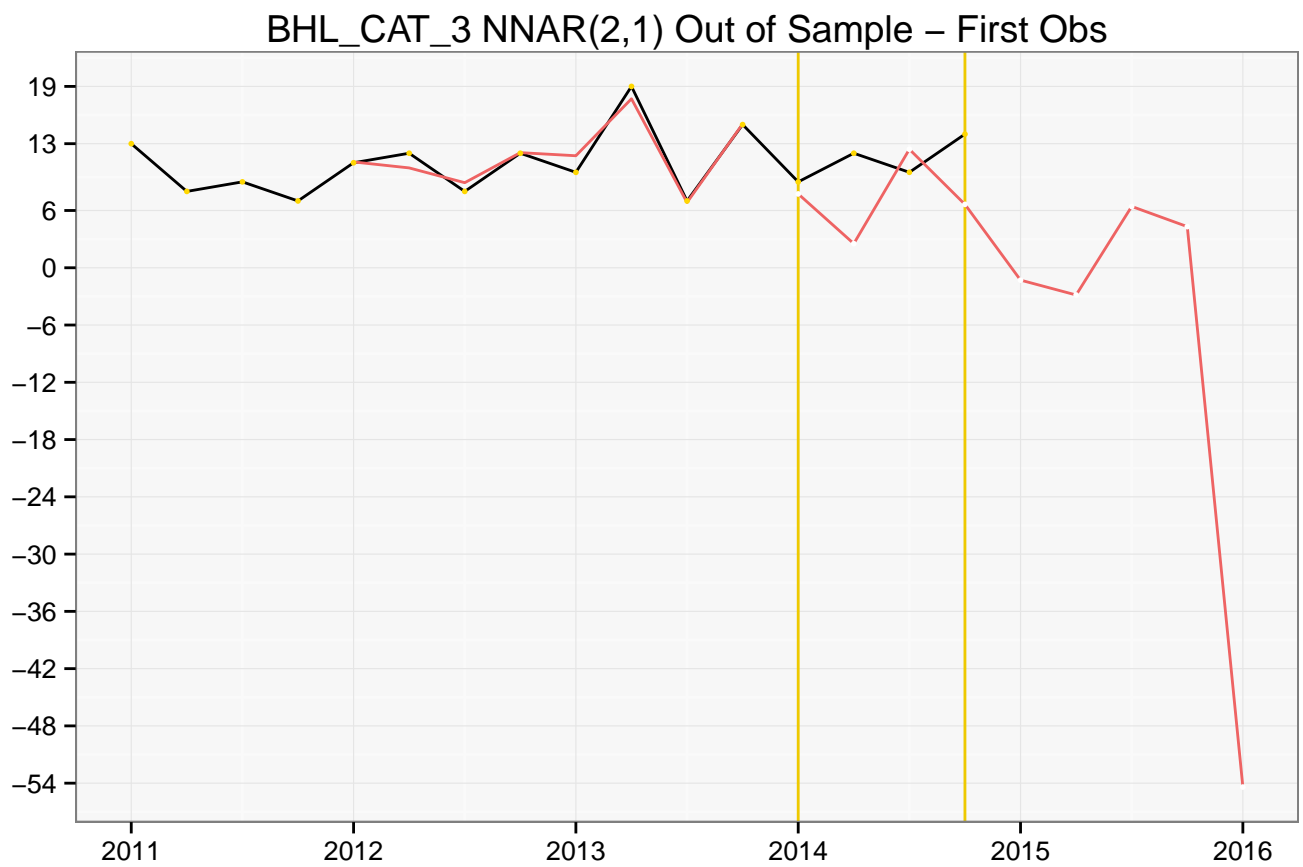
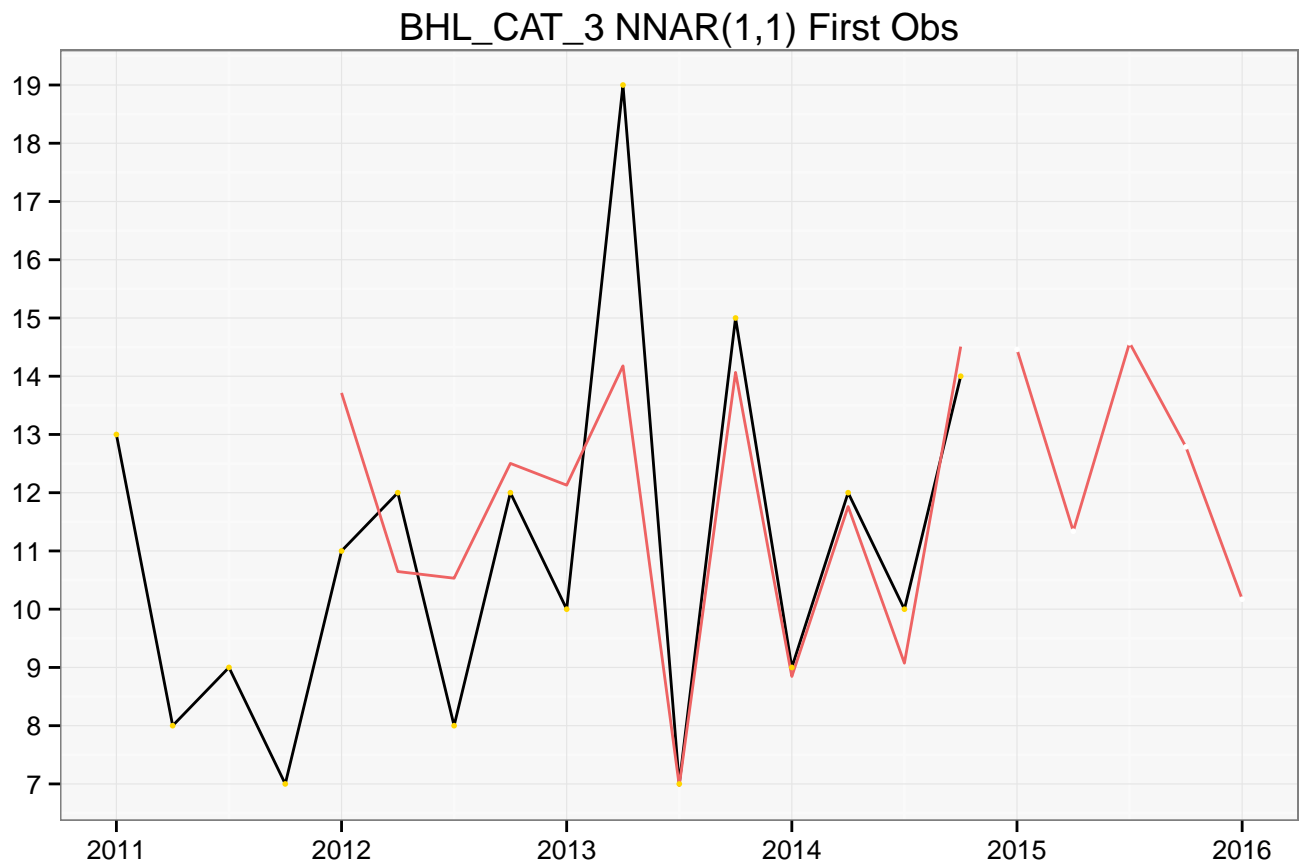
1.6 BHL\_CAT\_3

1.6.1 plots for BHL\_CAT\_3

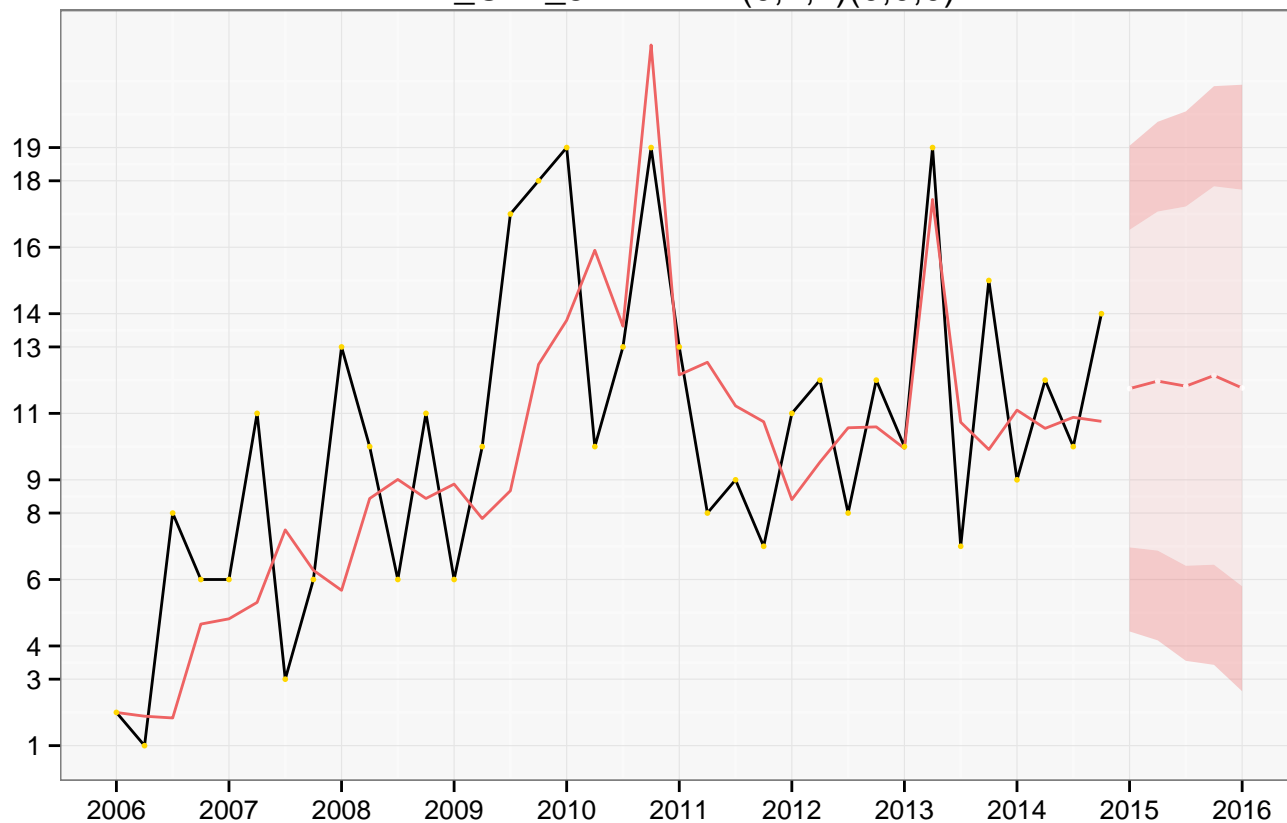




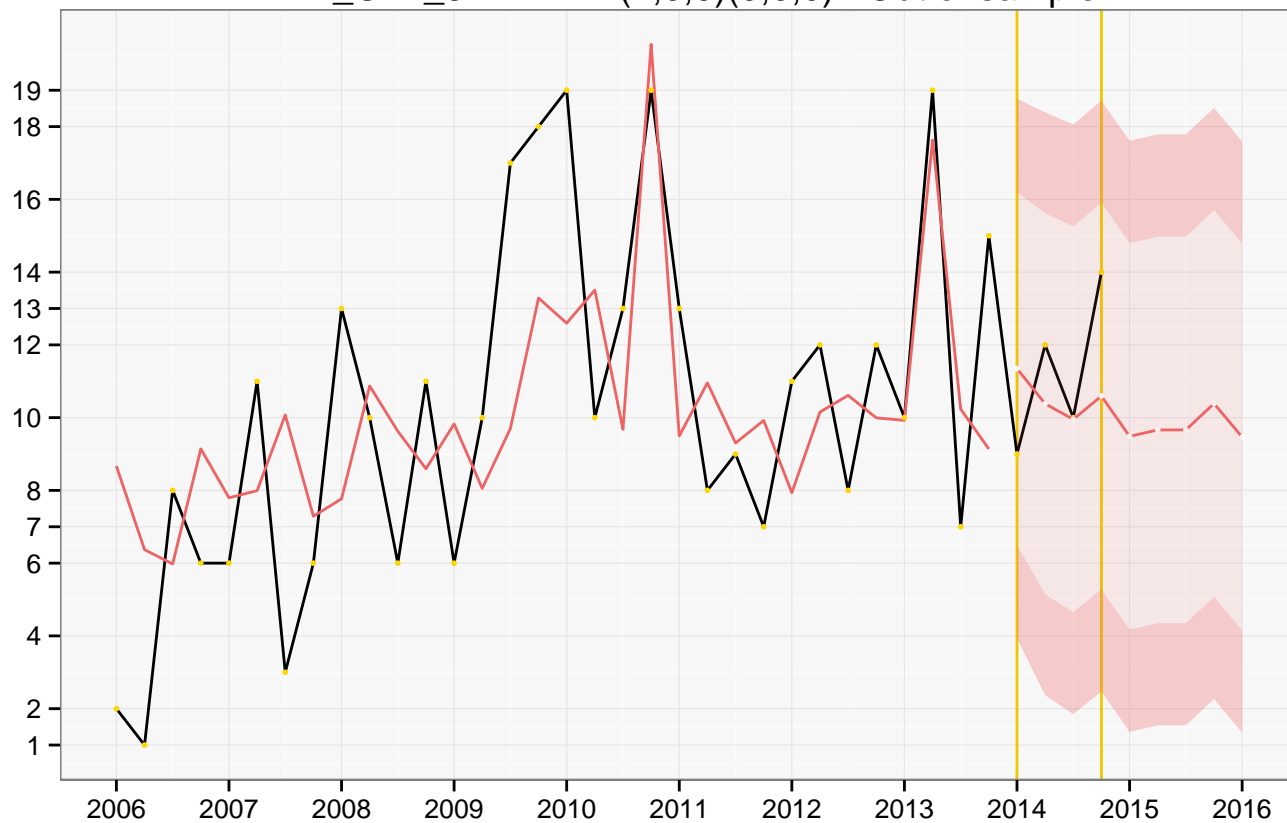




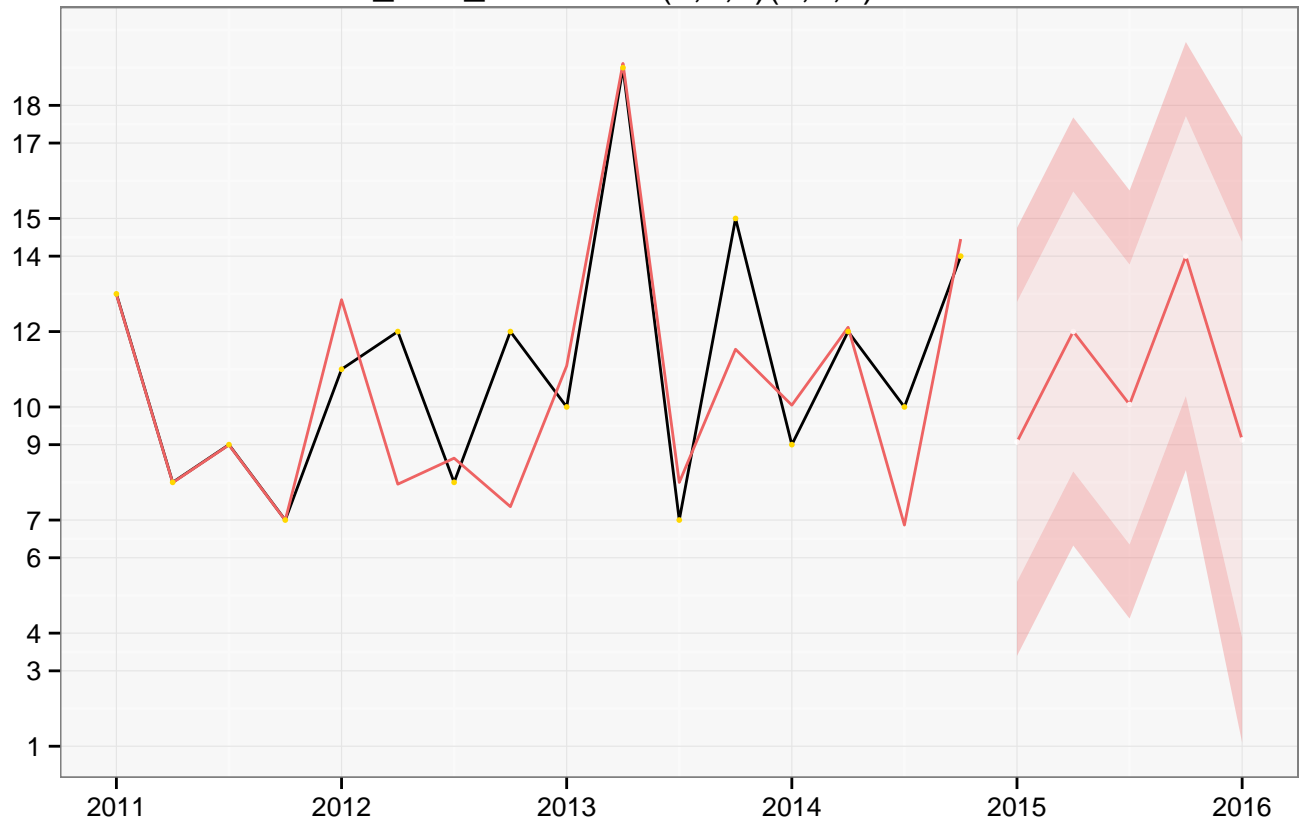
BHL\_CAT\_3 ARIMAX(0,1,1)(0,0,0)4



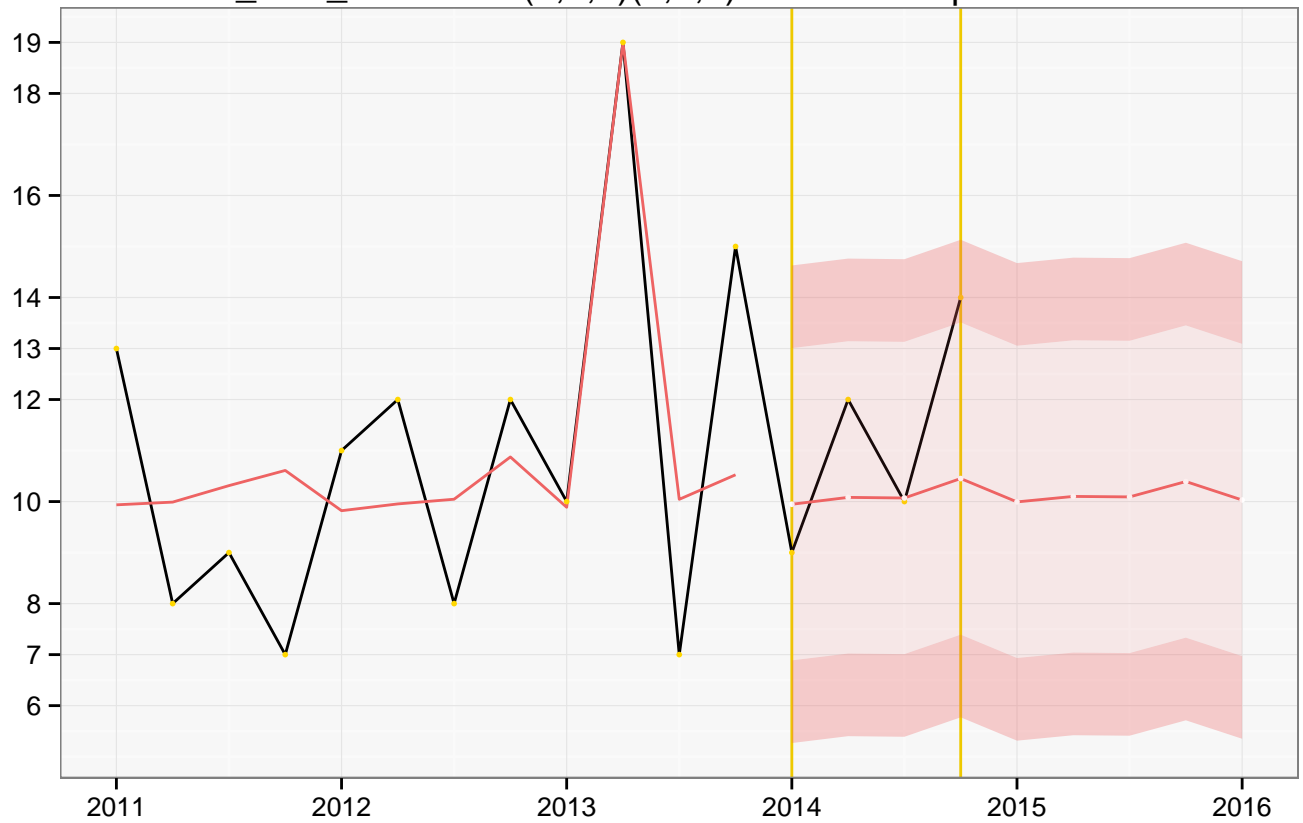
BHL\_CAT\_3 ARIMAX(1,0,0)(0,0,0)4 Out of sample



BHL\_CAT\_3 ARIMAX(0,0,0)(0,1,0)4 First Obs

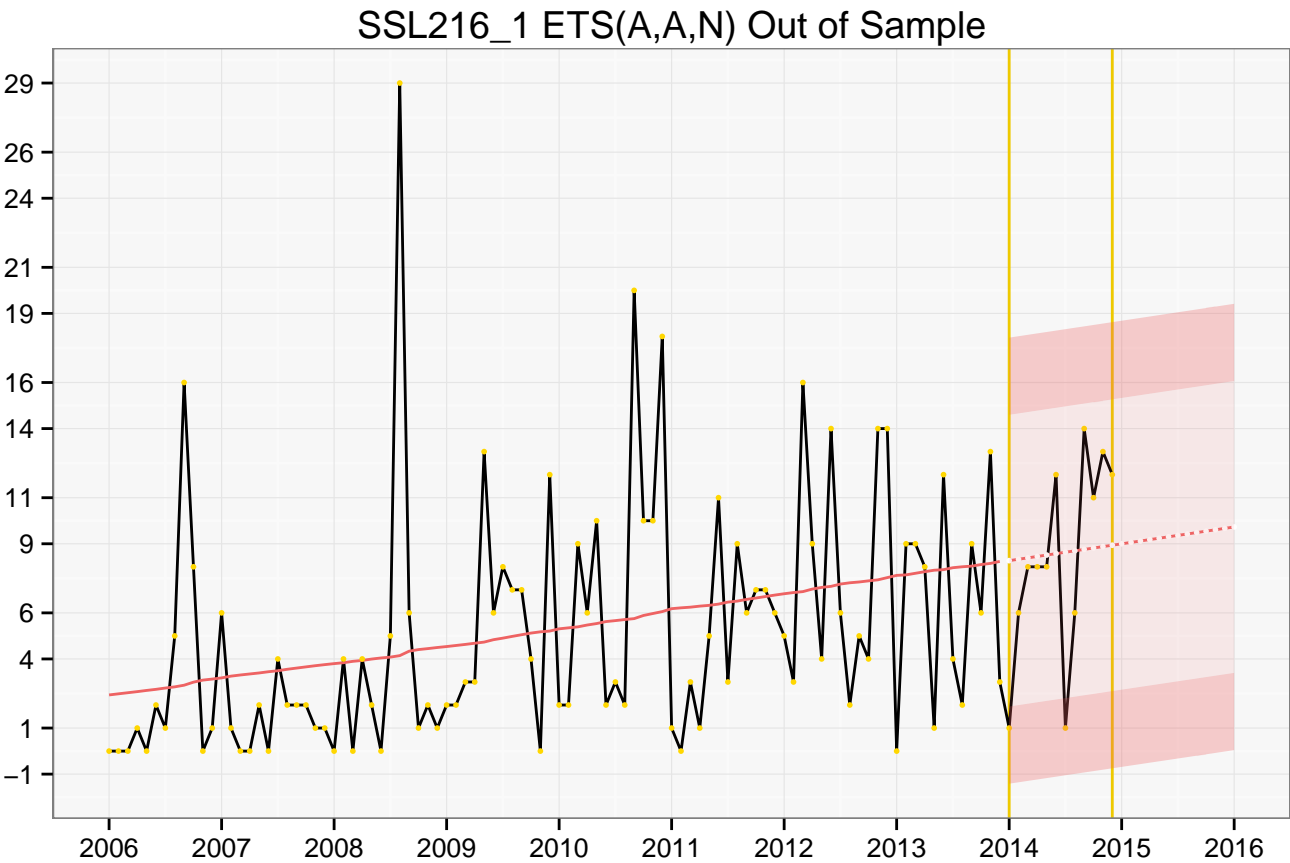
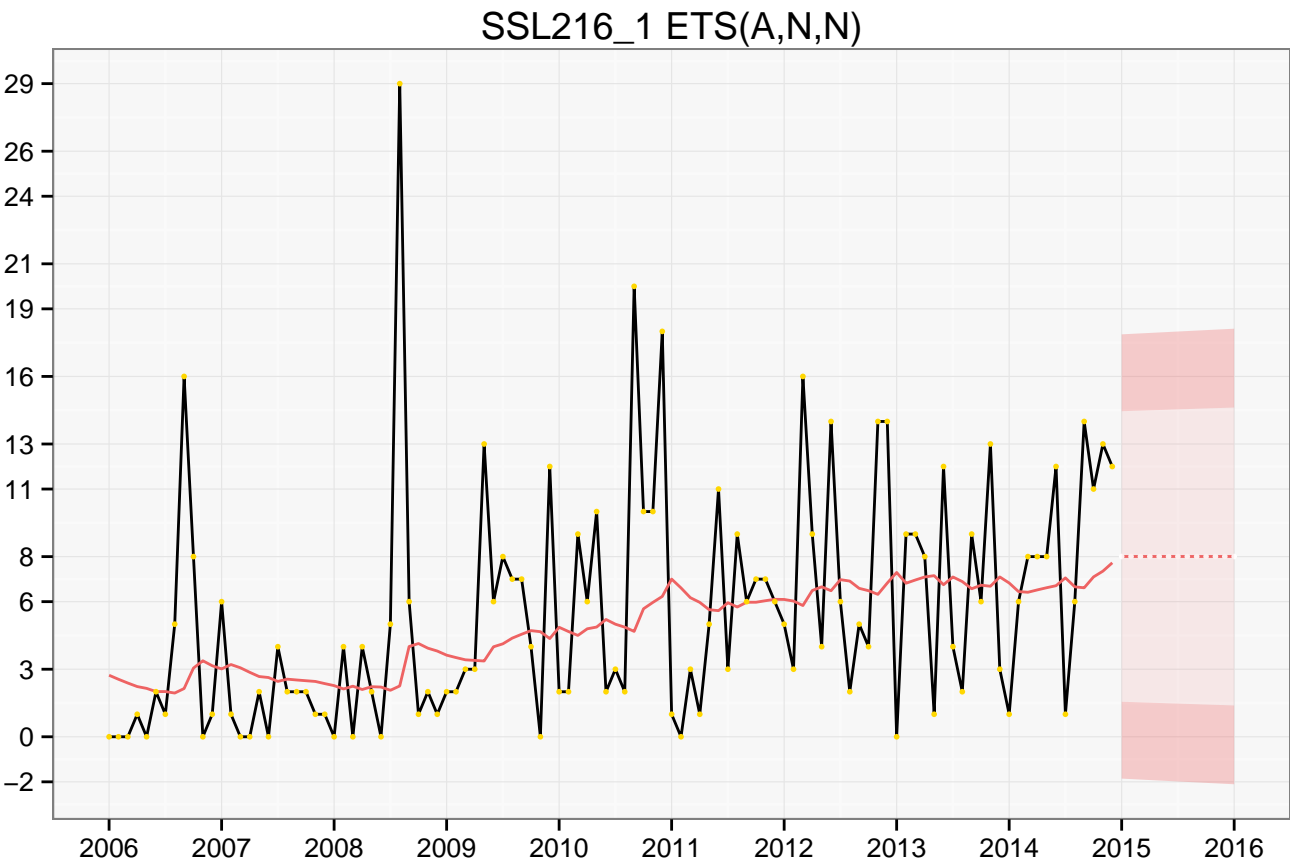


BHL\_CAT\_3 ARIMAX(0,0,0)(0,0,0)4 Out of sample – First Obs

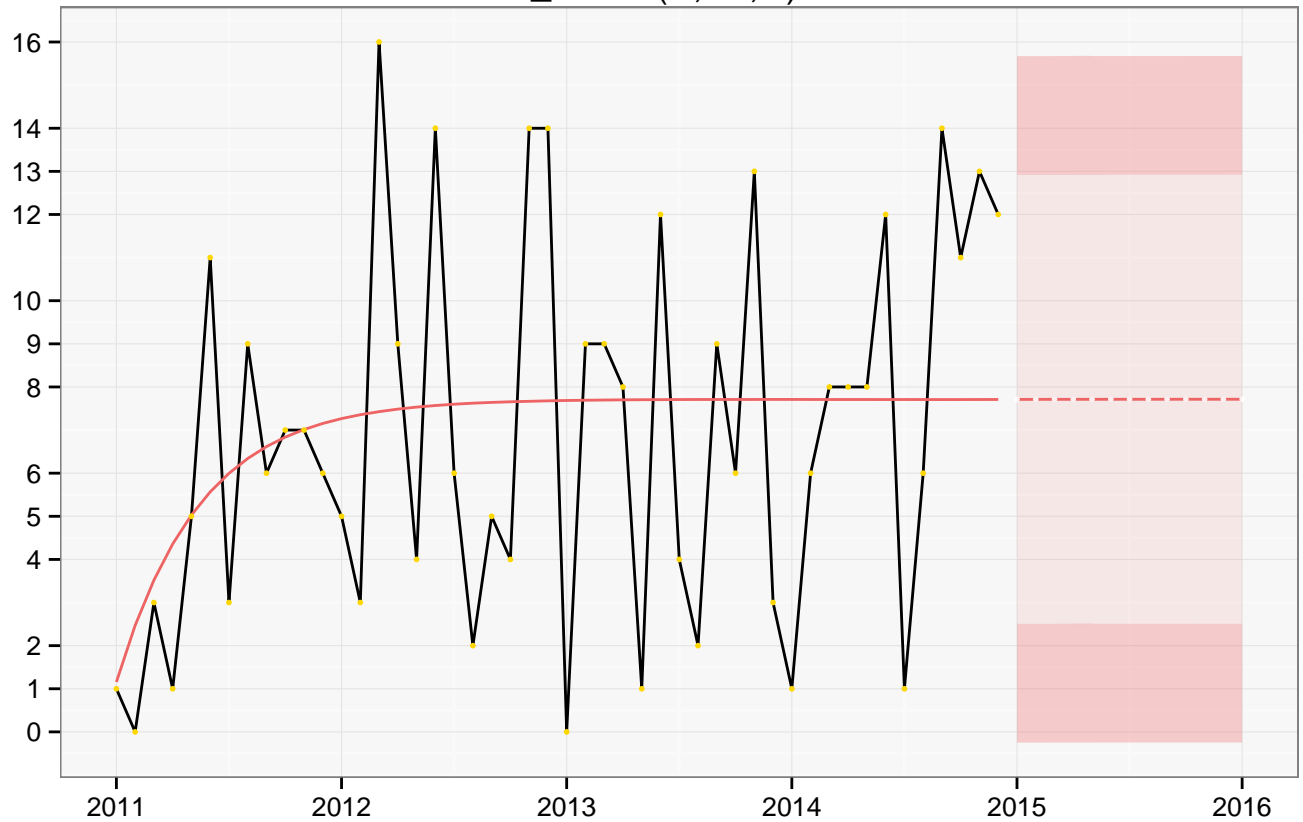


1.7 SSL216\_1

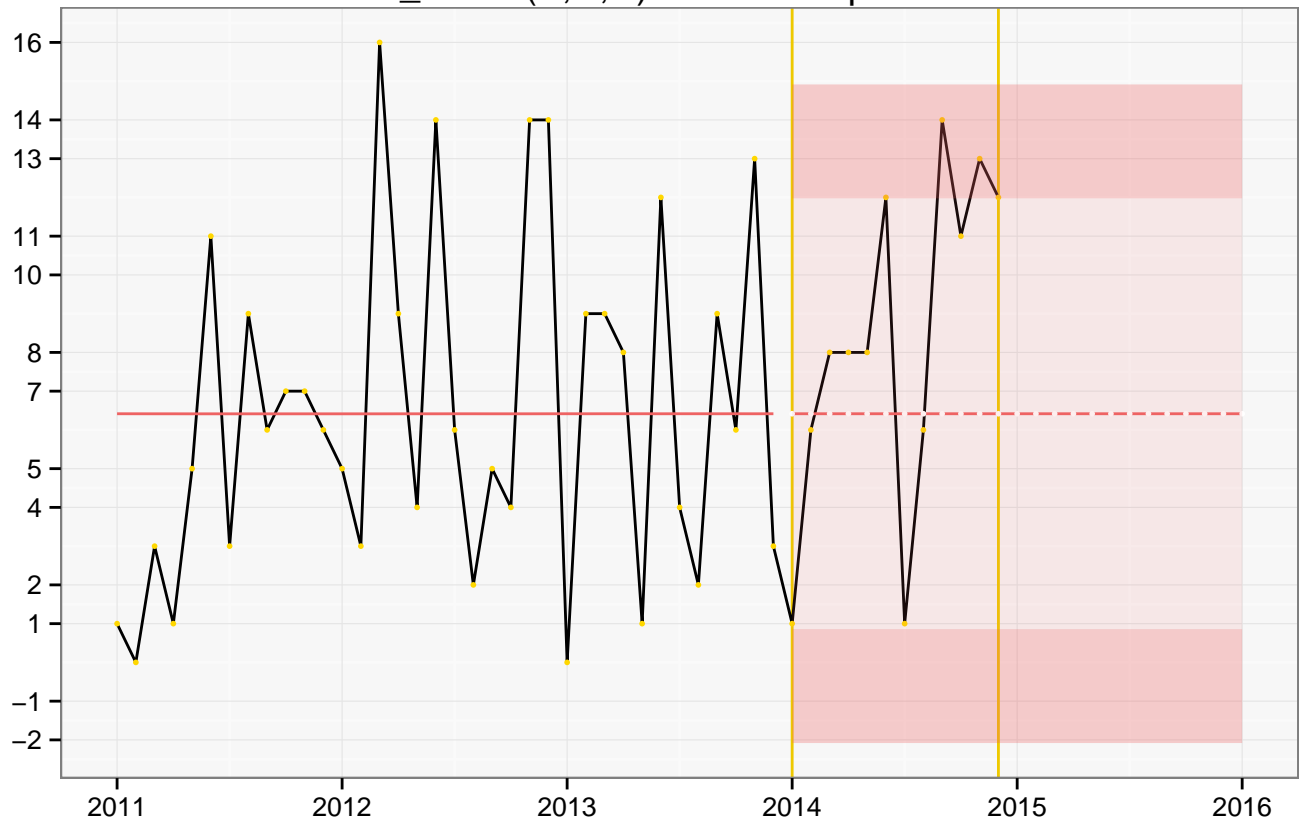
1.7.1 plots for SSL216\_1



SSL216\_1 ETS(A,Ad,N) First Obs

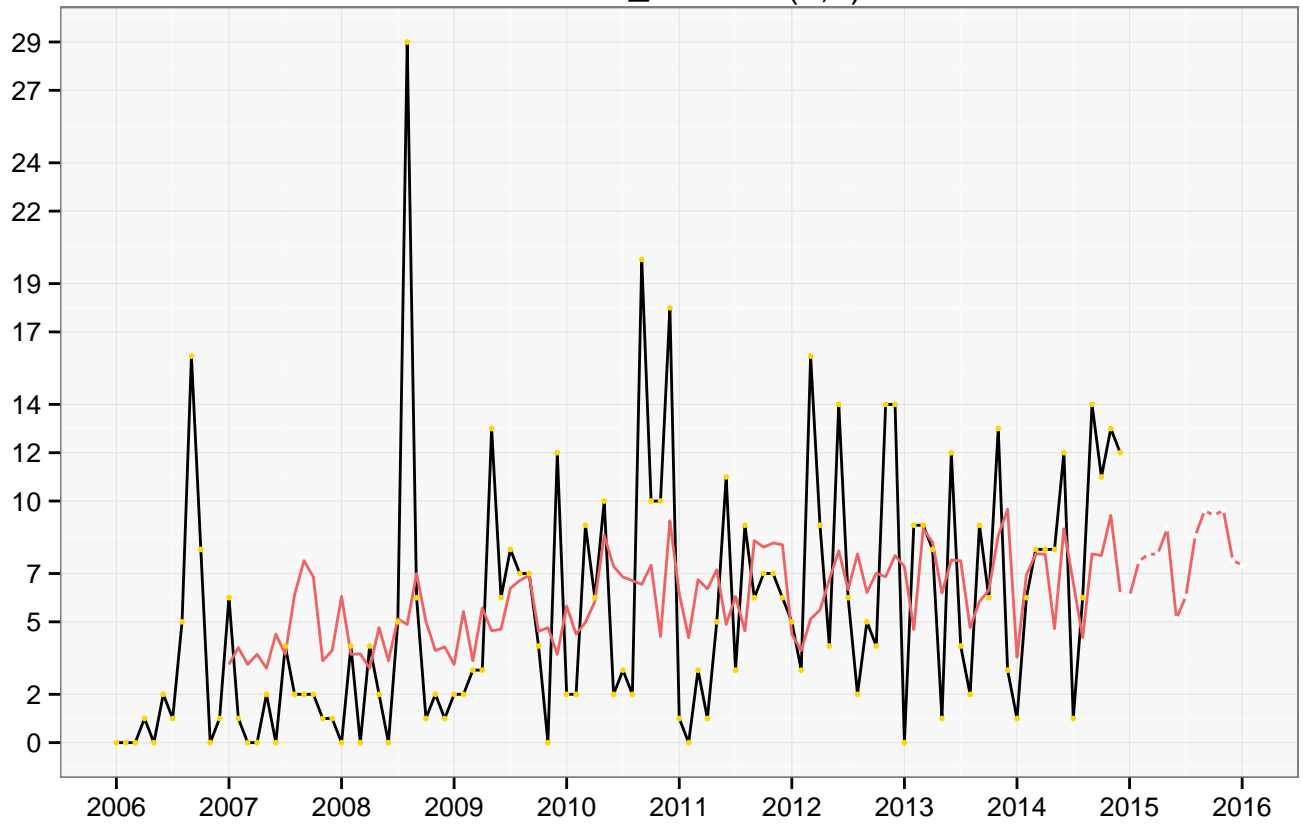


SSL216\_1 ETS(A,N,N) Out of Sample – First Obs

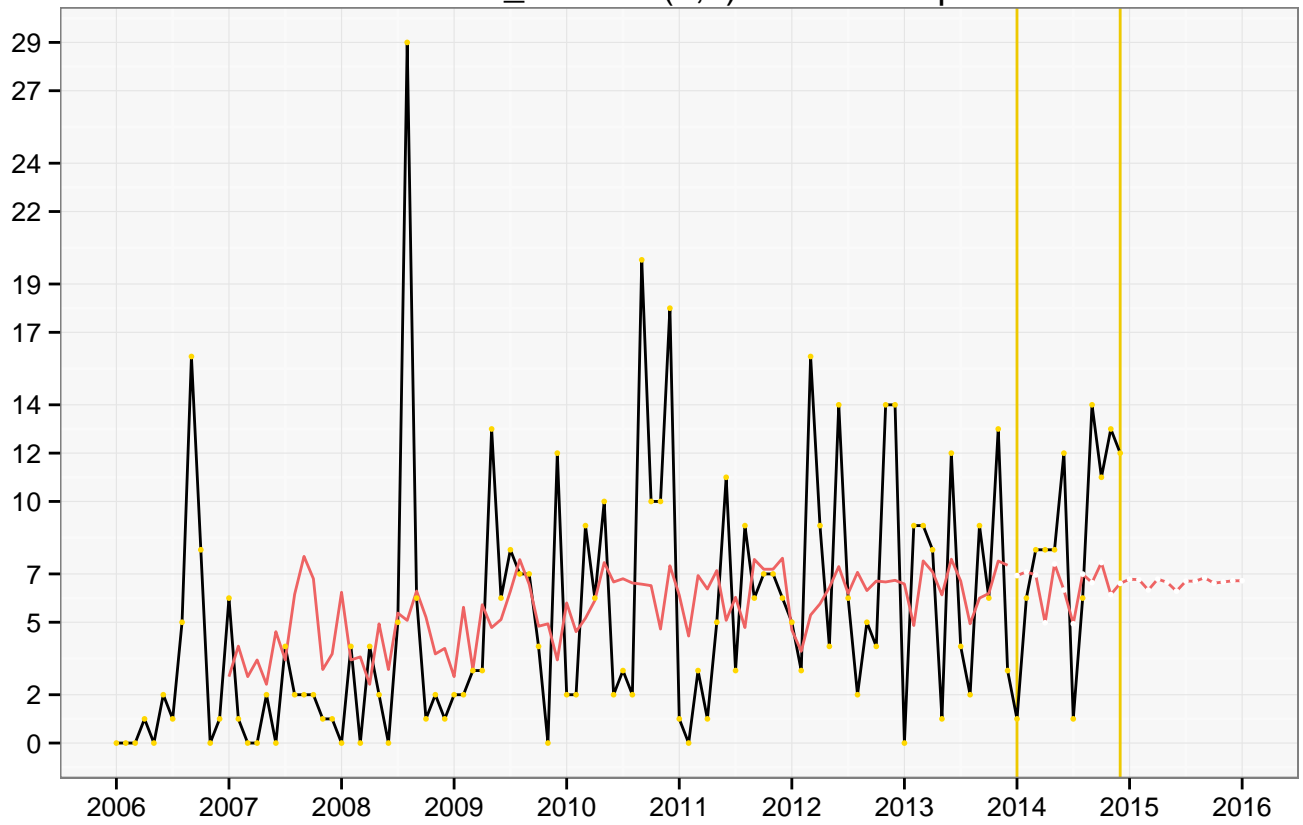




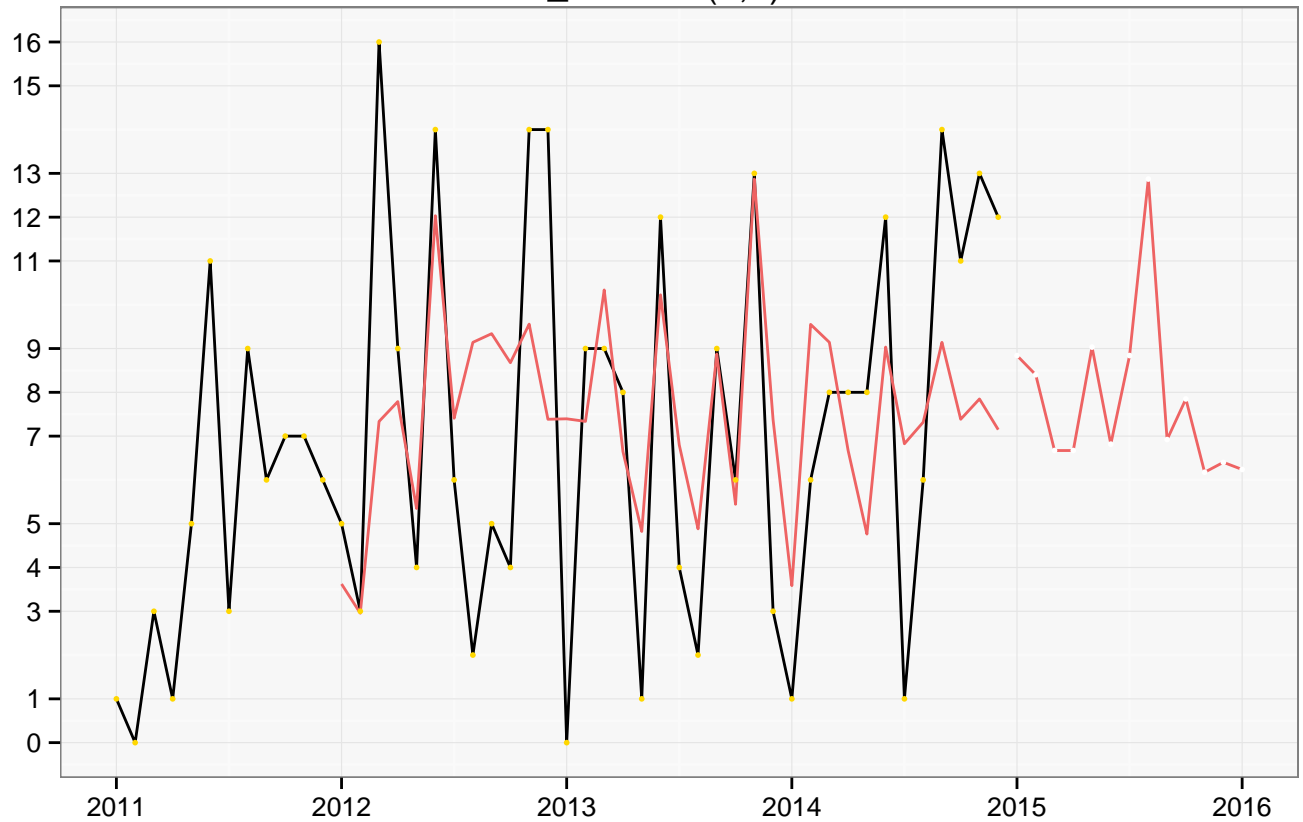
SSL216\_1 NNAR(1,1)



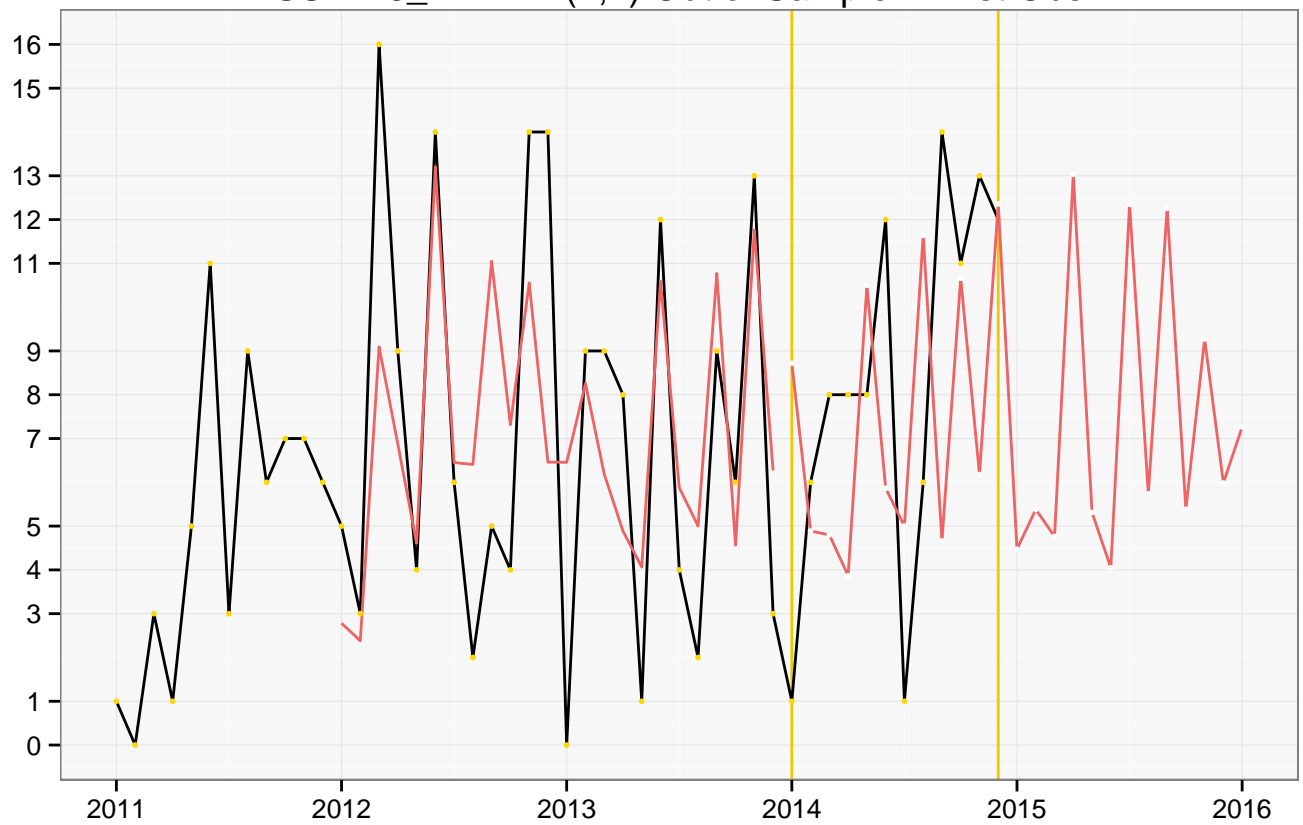
SSL216\_1 NNAR(1,1) Out of Sample



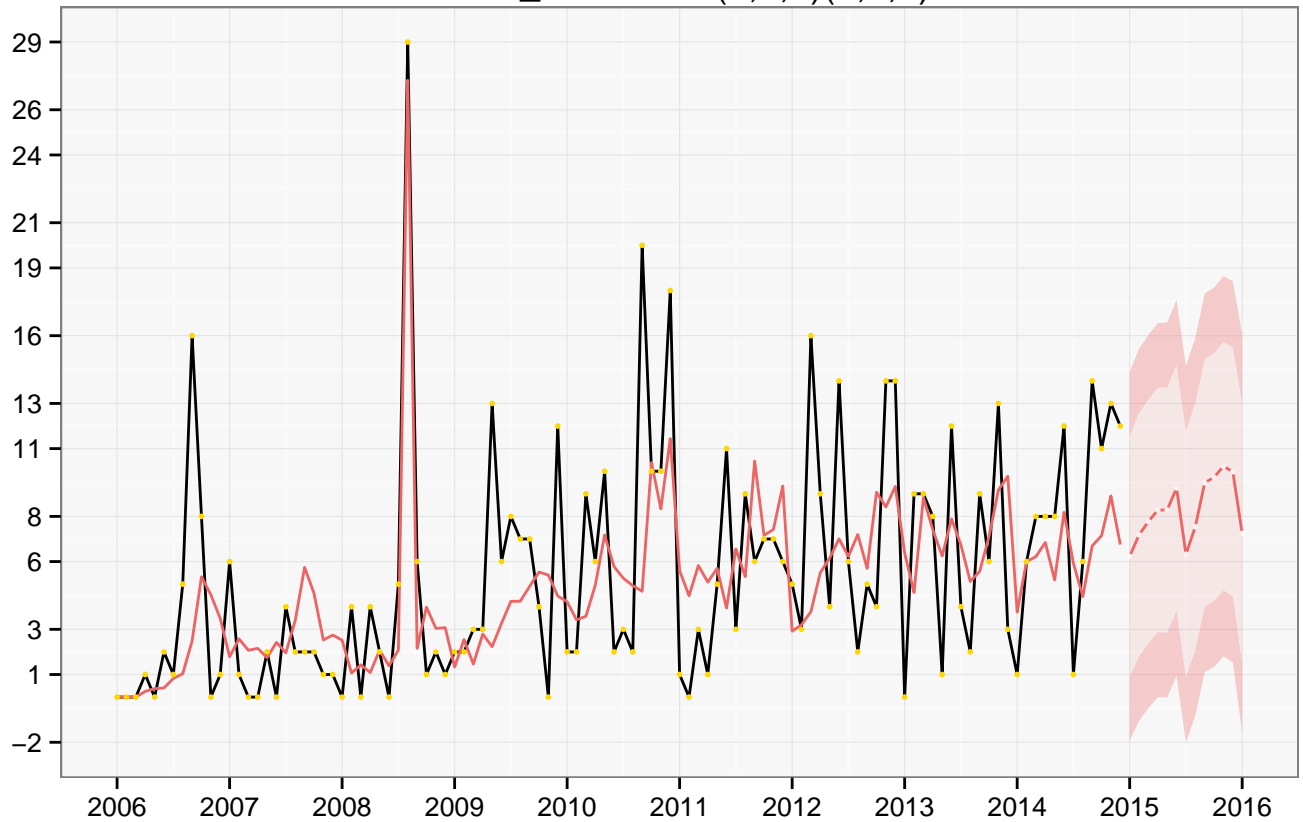
SSL216\_1 NNAR(1,1) First Obs



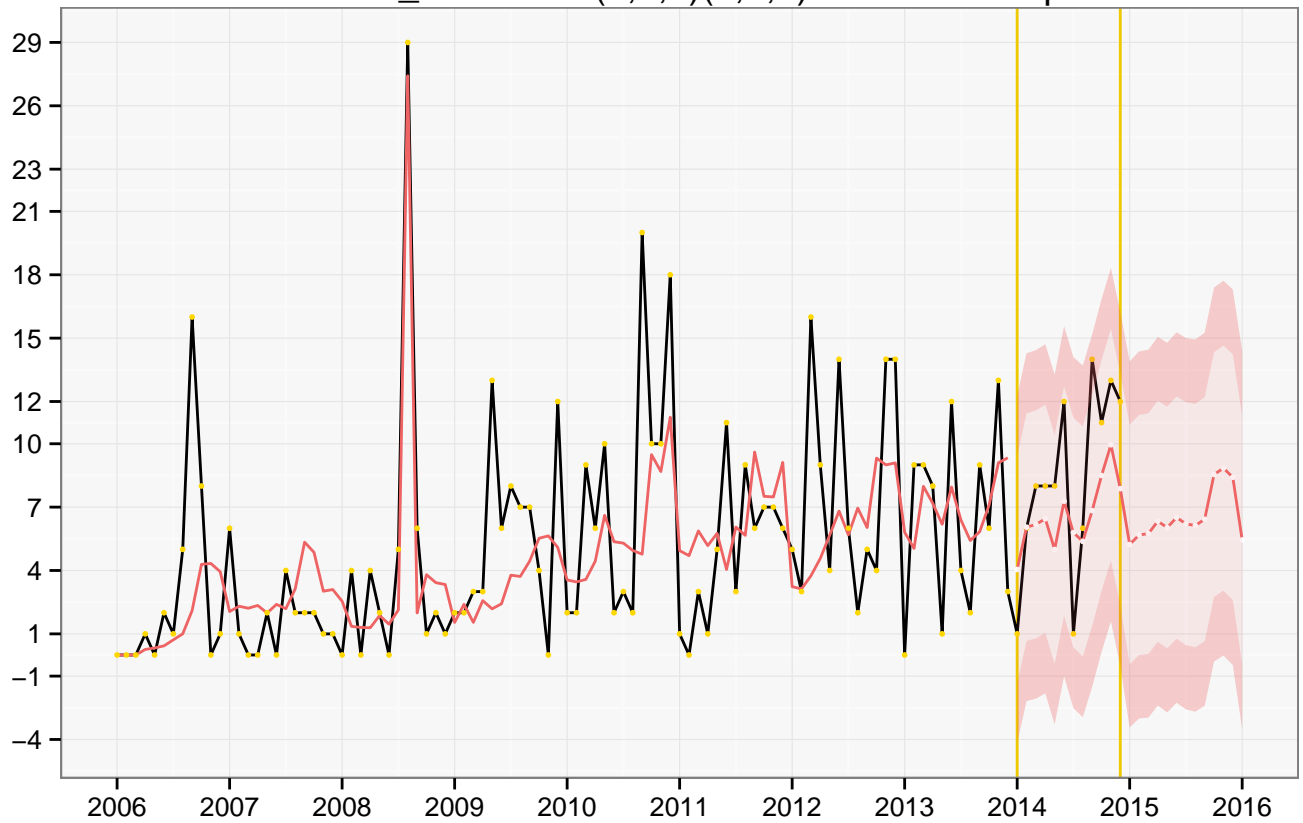
SSL216\_1 NNAR(1,1) Out of Sample – First Obs



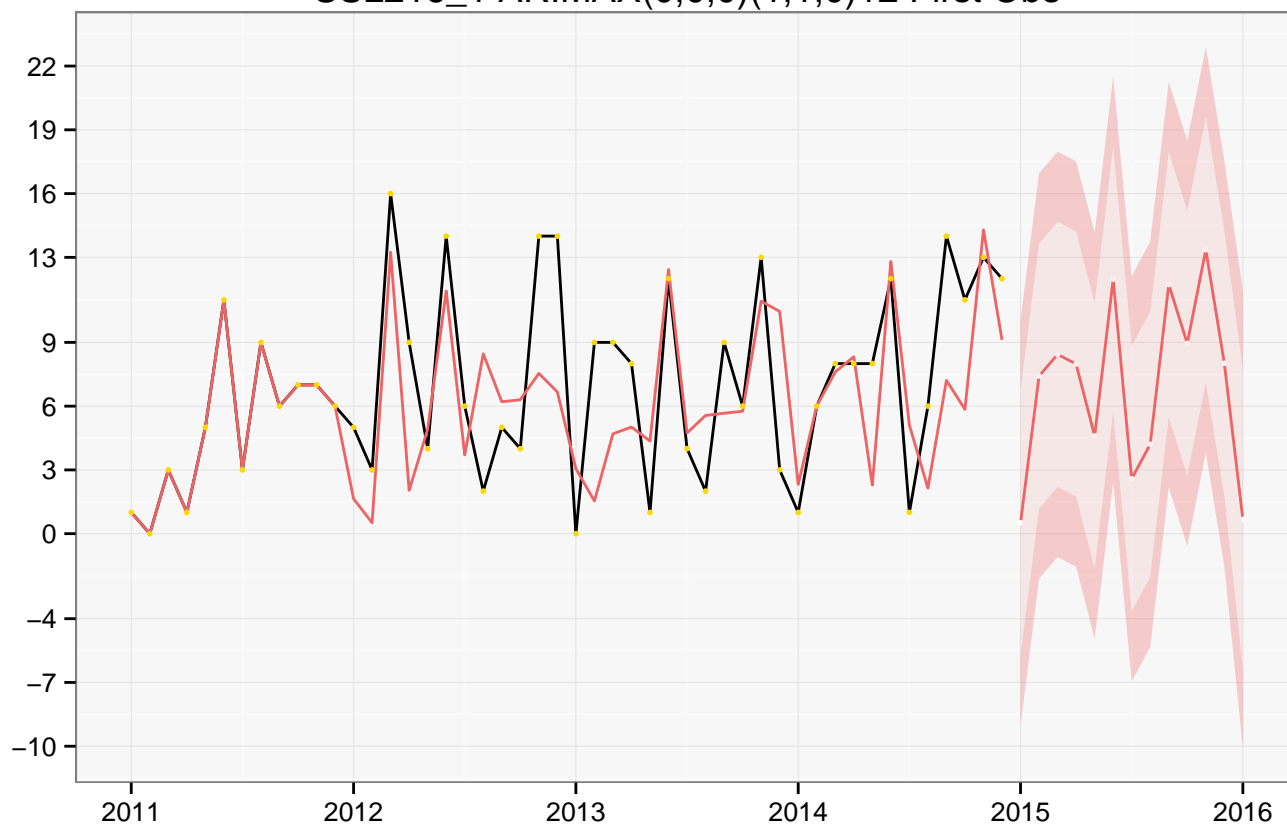
SSL216\_1 ARIMAX(1,1,1)(1,0,0)12



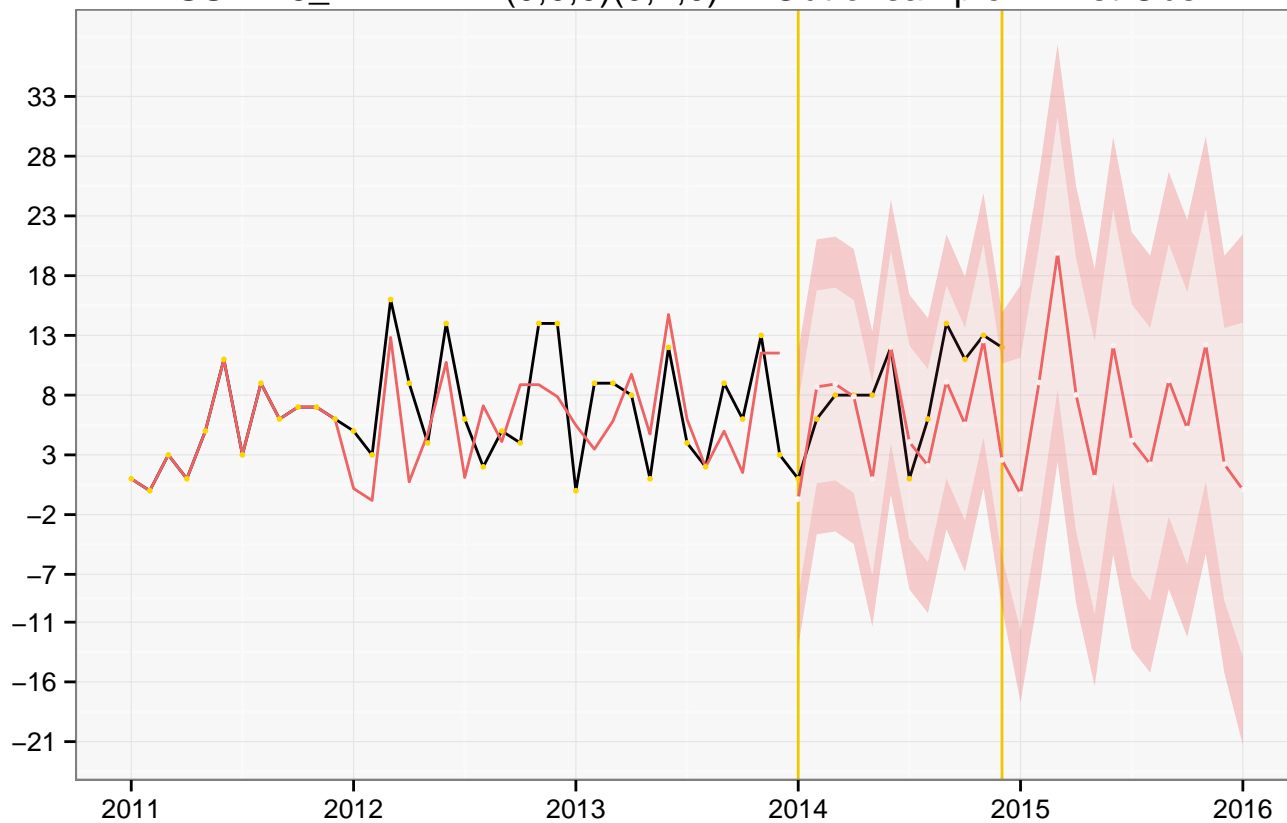
SSL216\_1 ARIMAX(0,1,1)(1,0,0)12 Out of sample



SSL216\_1 ARIMAX(0,0,0)(1,1,0)12 First Obs

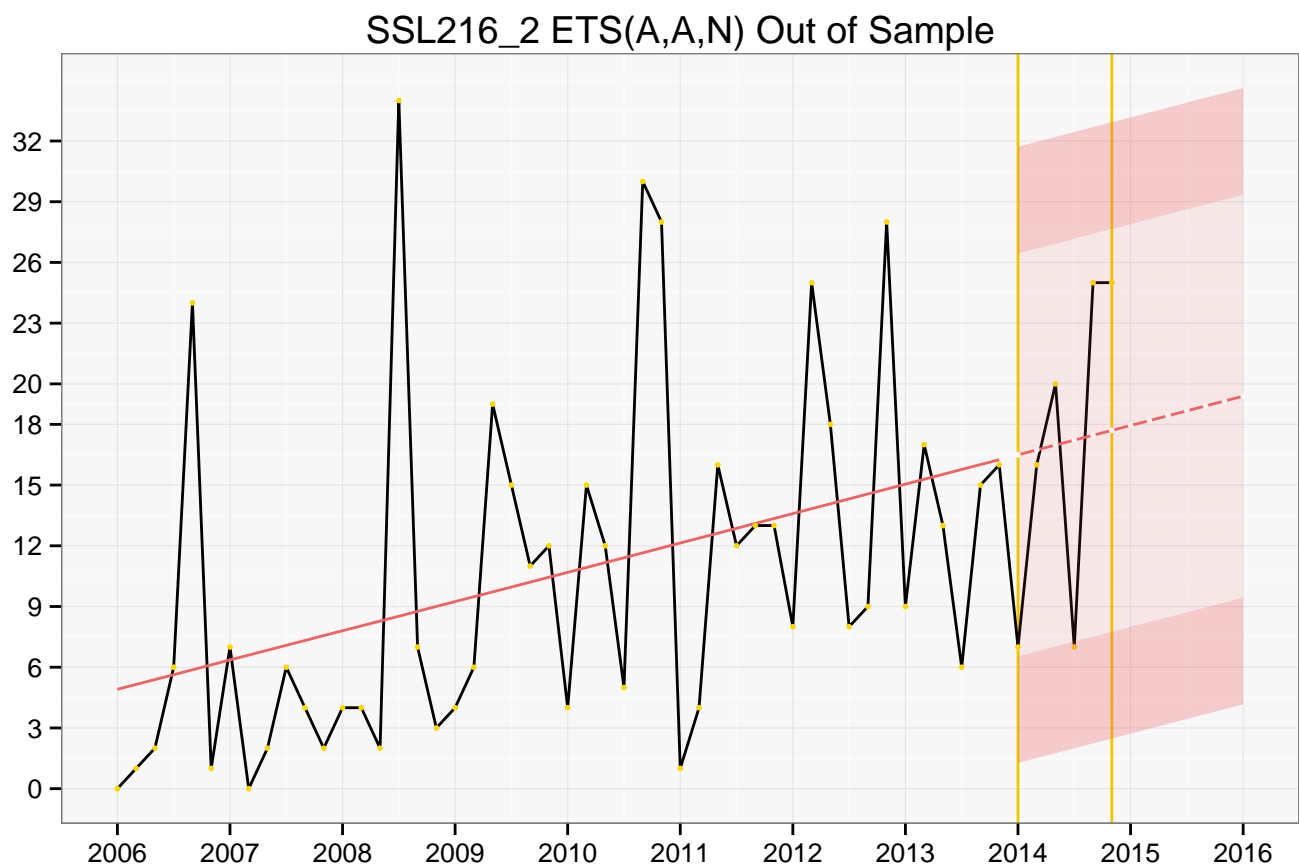
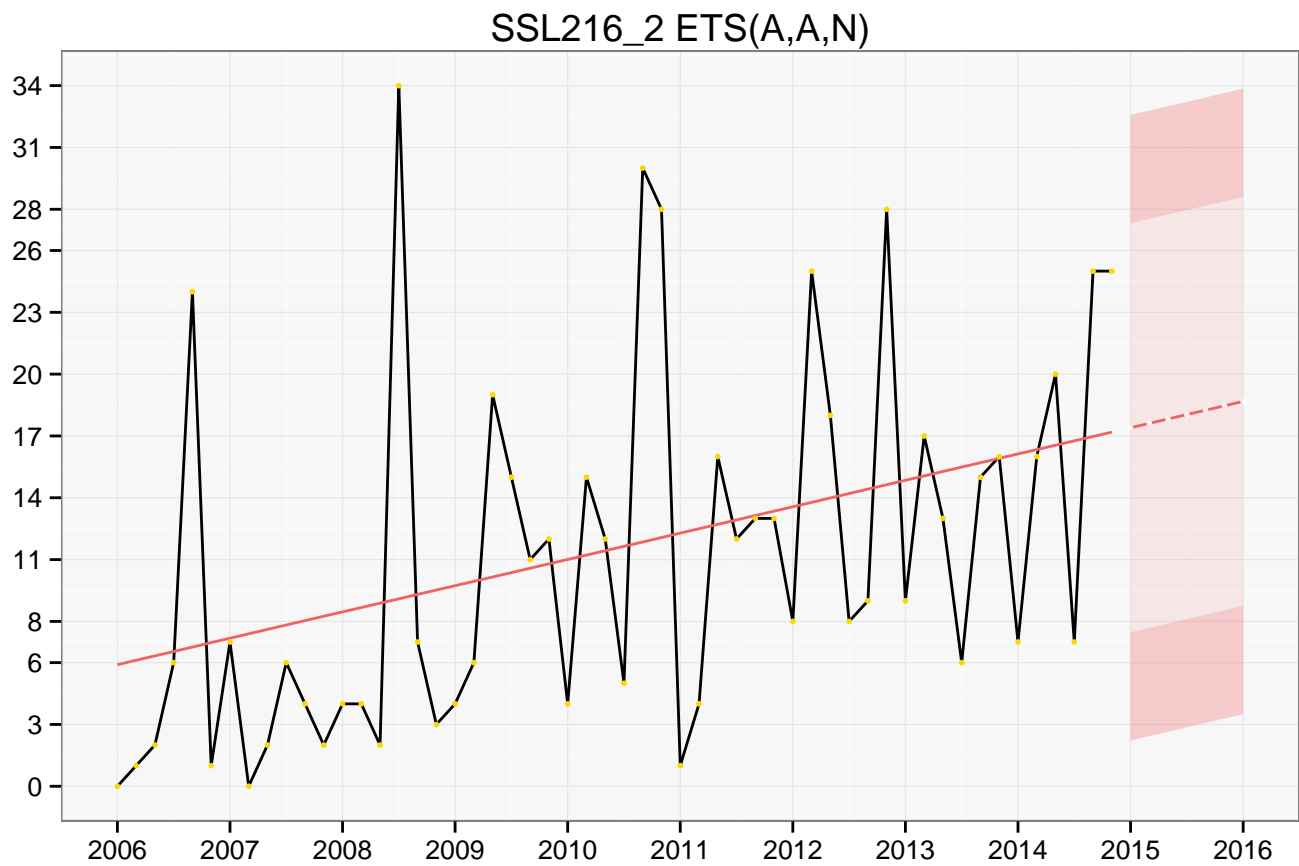


SSL216\_1 ARIMAX(0,0,0)(0,1,0)12 Out of sample – First Obs

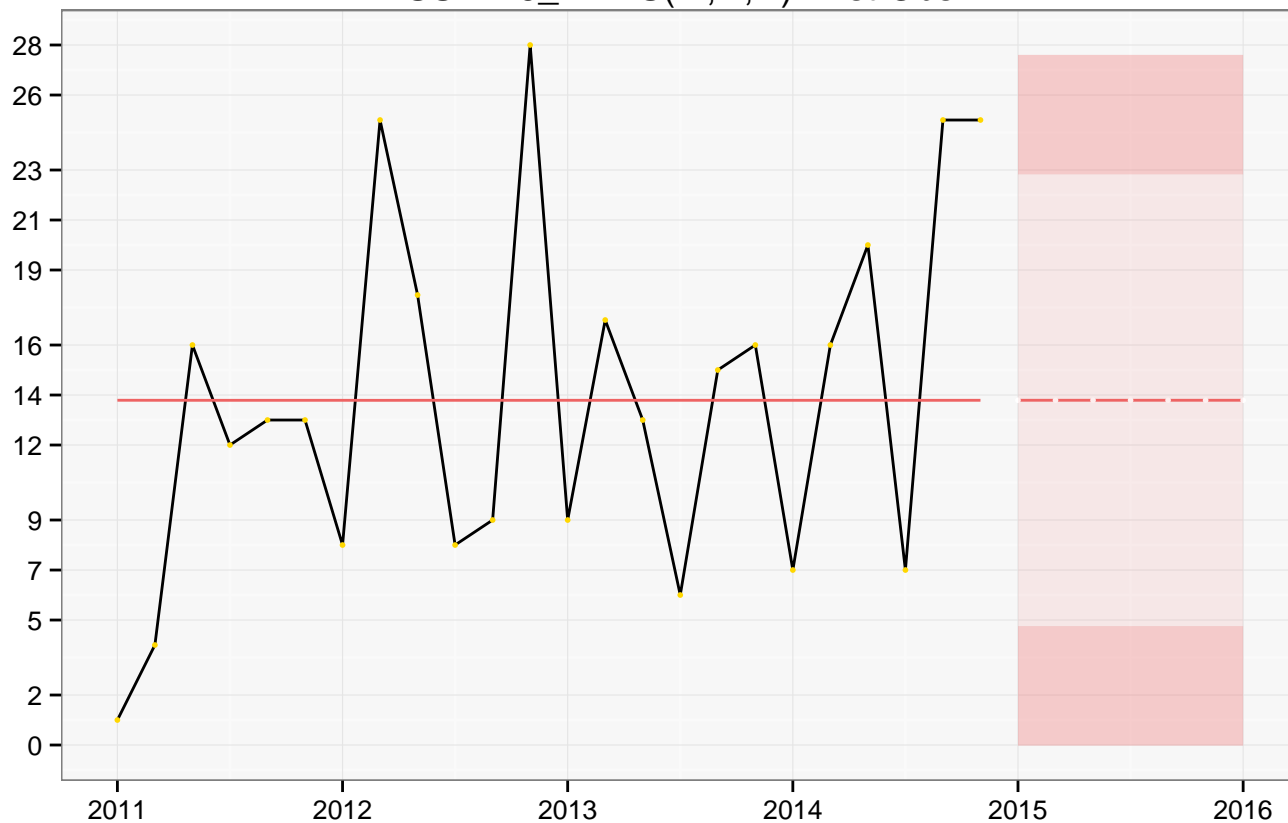


1.8 SSL216\_2

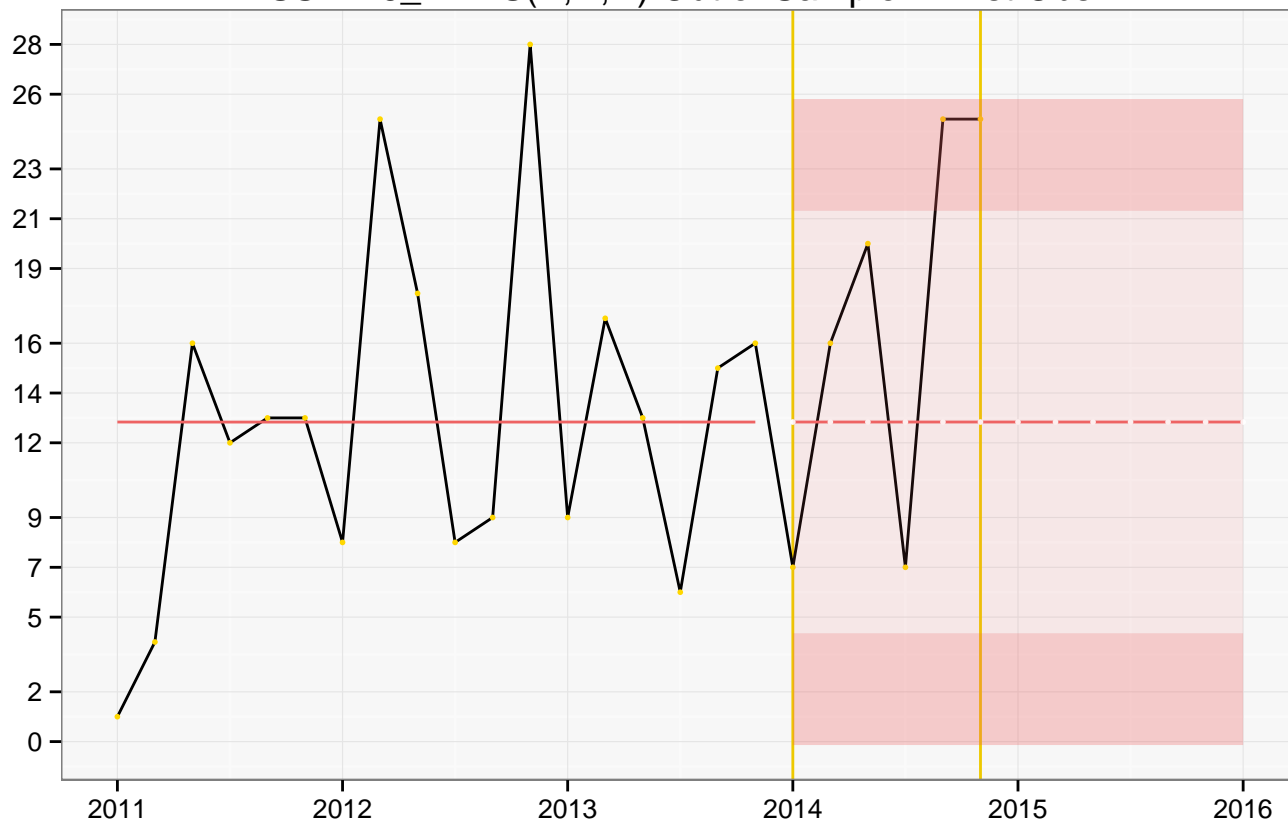
1.8.1 plots for SSL216\_2



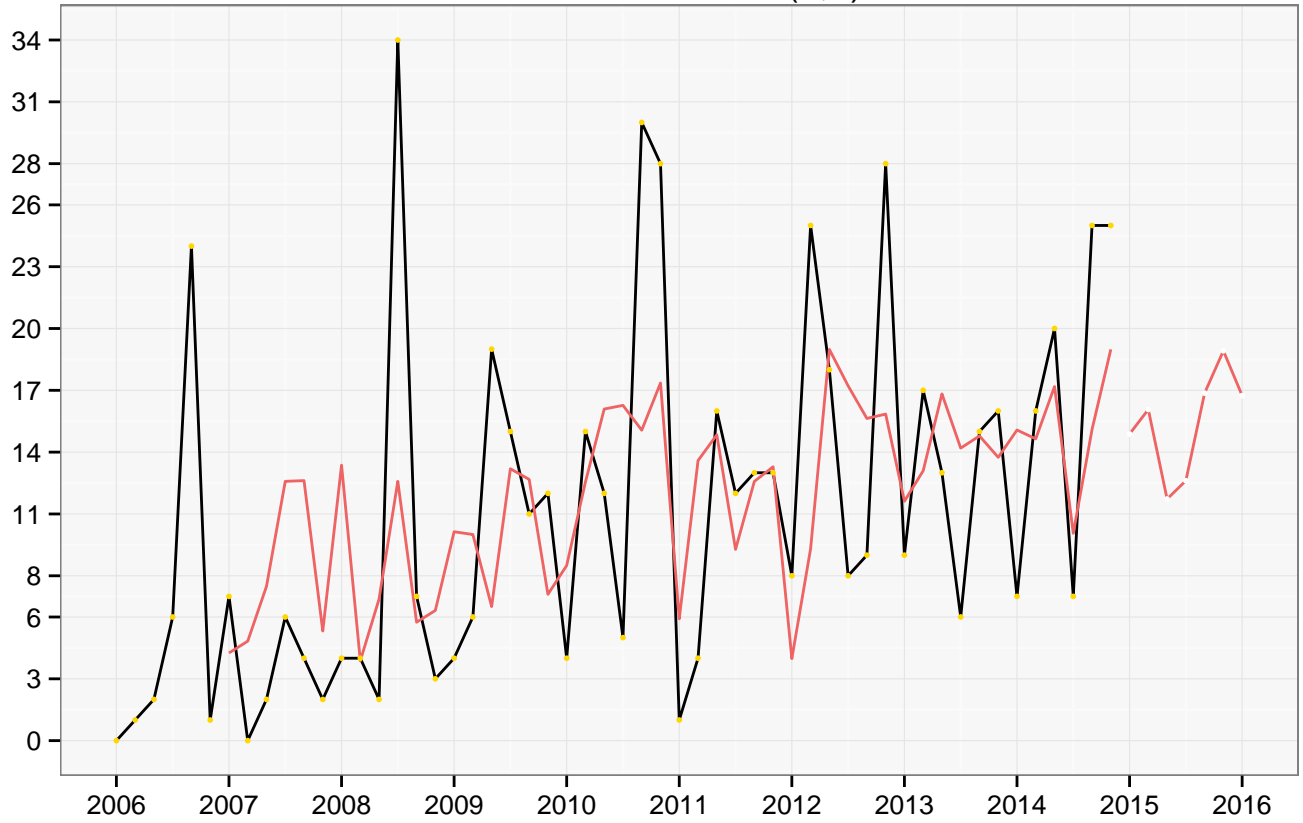
SSL216\_2 ETS(M,N,N) First Obs



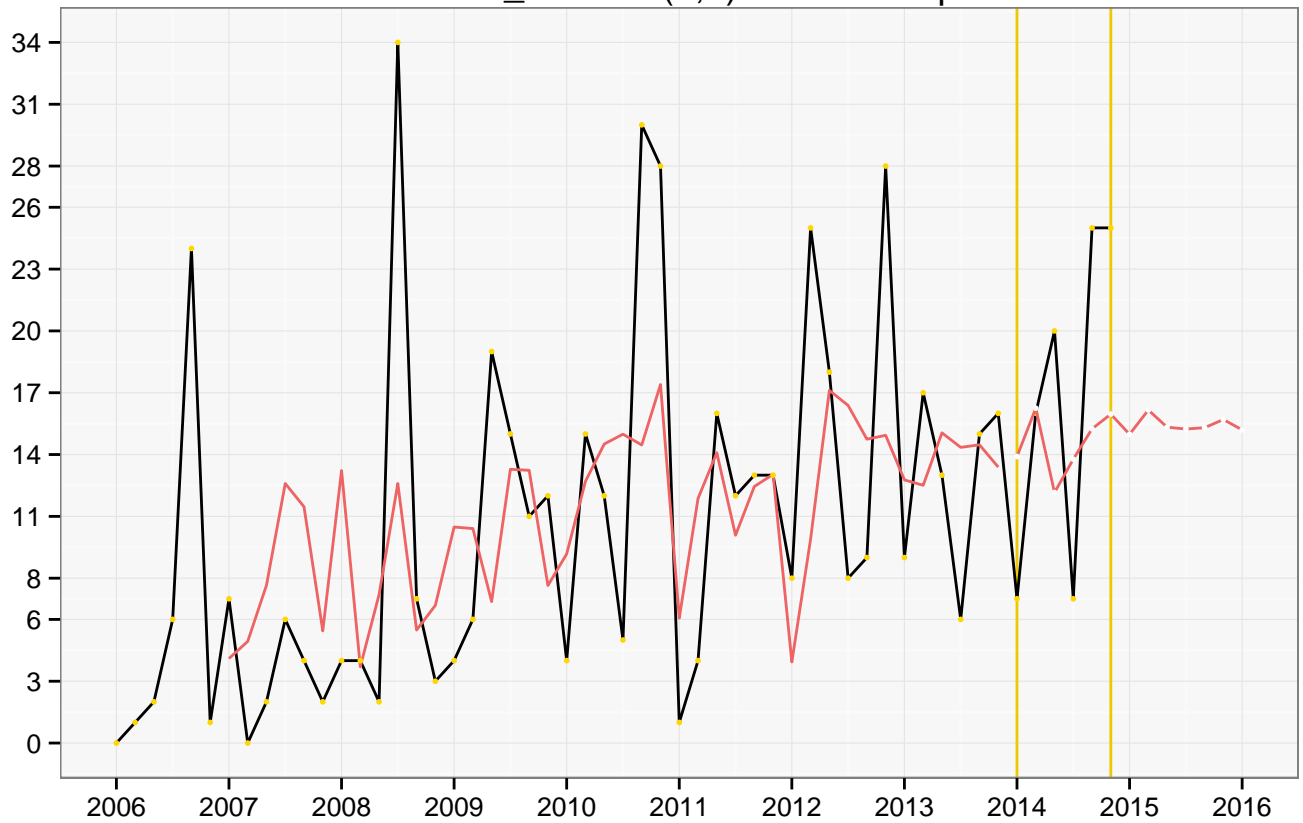
SSL216\_2 ETS(A,N,N) Out of Sample – First Obs



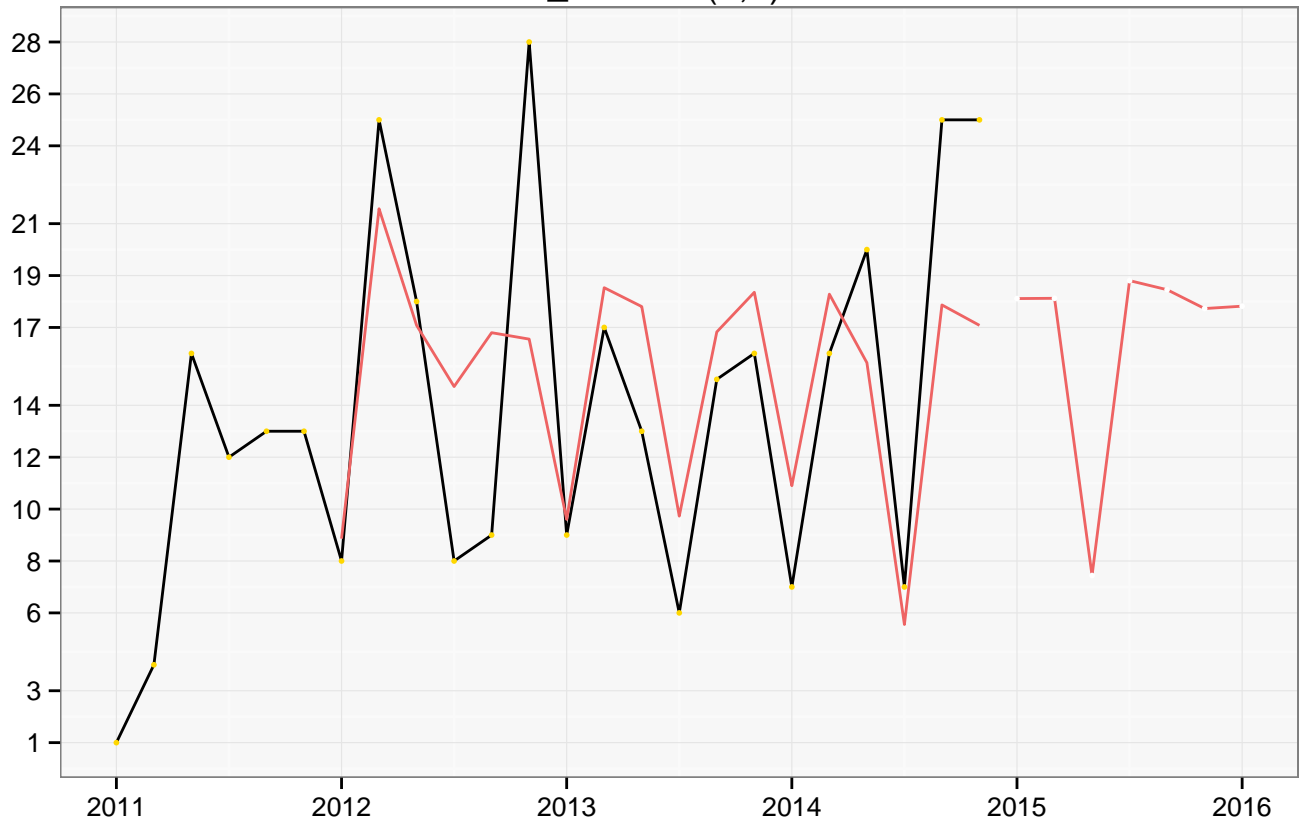
SSL216\_2 NNAR(1,1)



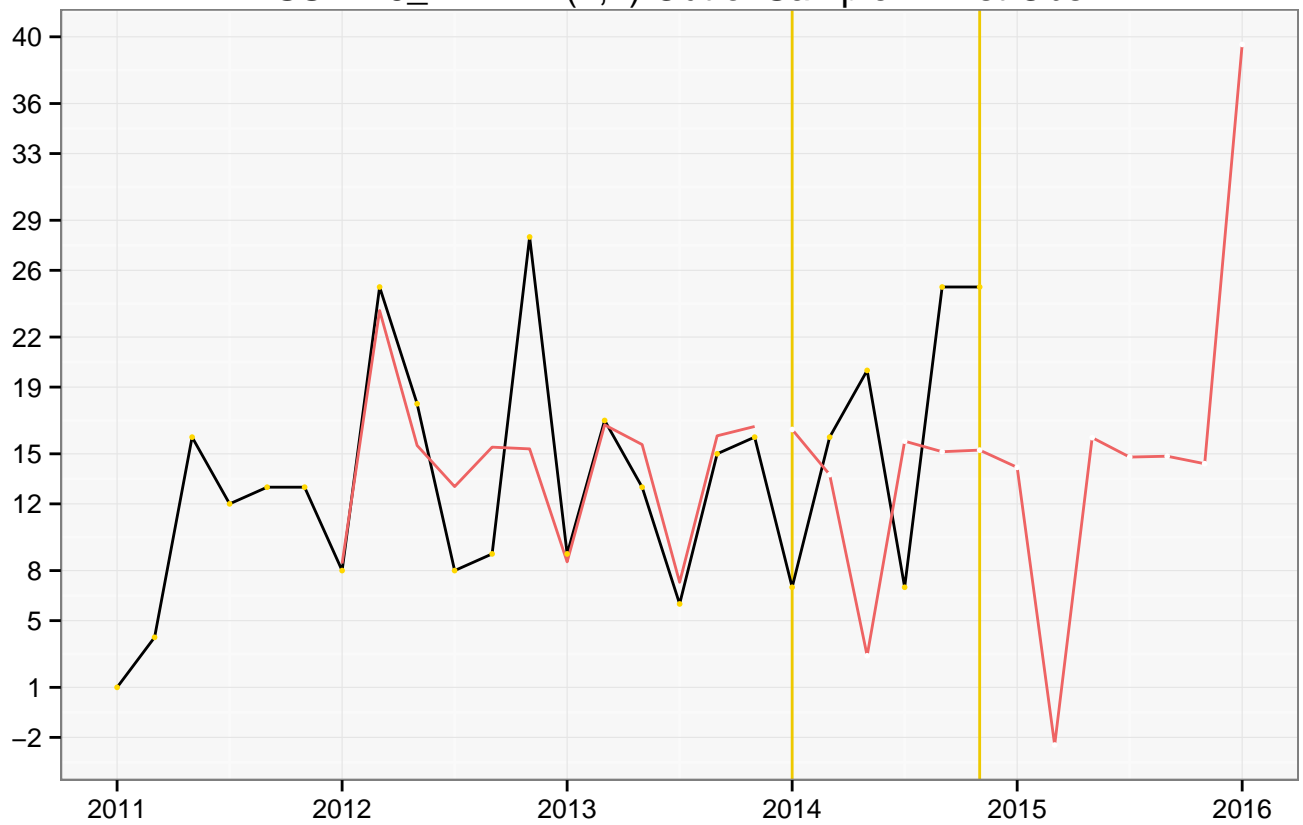
SSL216\_2 NNAR(1,1) Out of Sample



SSL216\_2 NNAR(1,1) First Obs

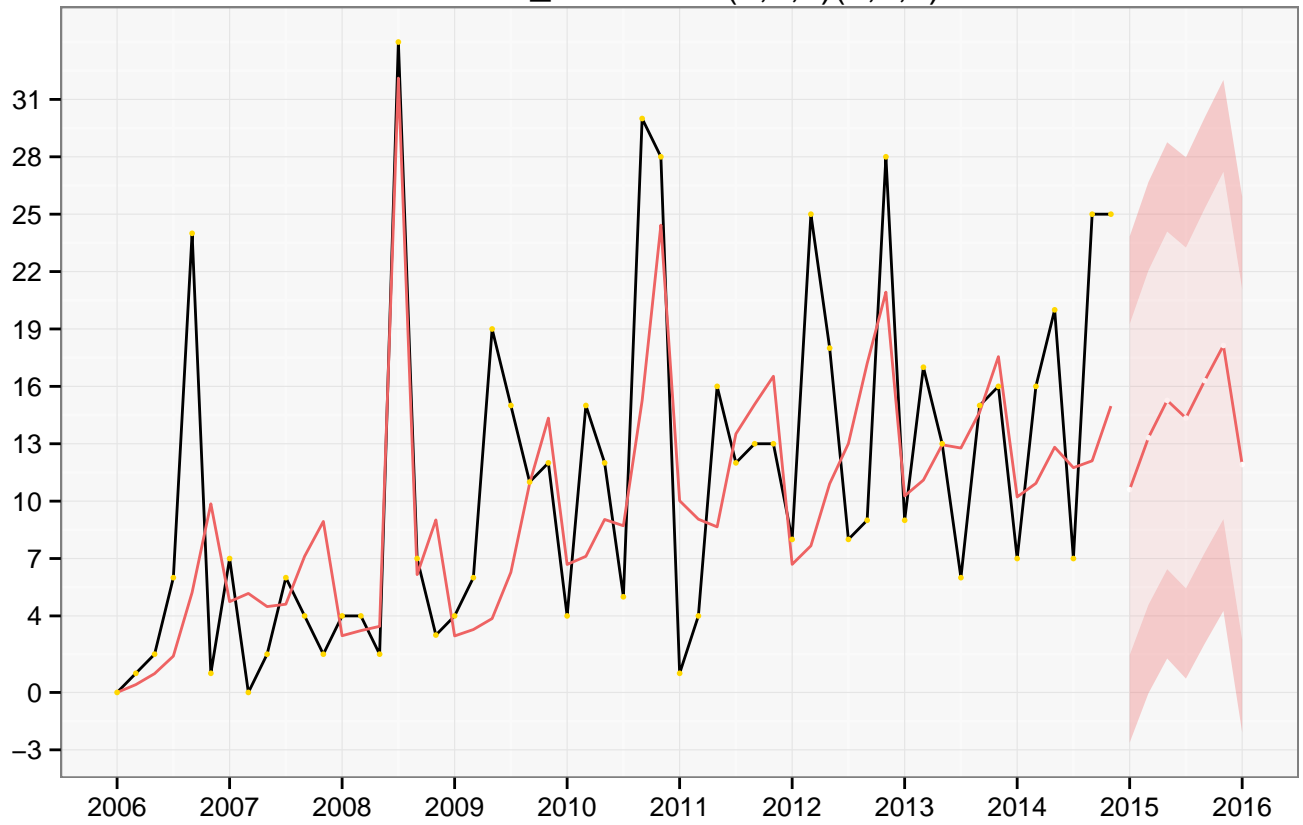


SSL216\_2 NNAR(1,1) Out of Sample – First Obs

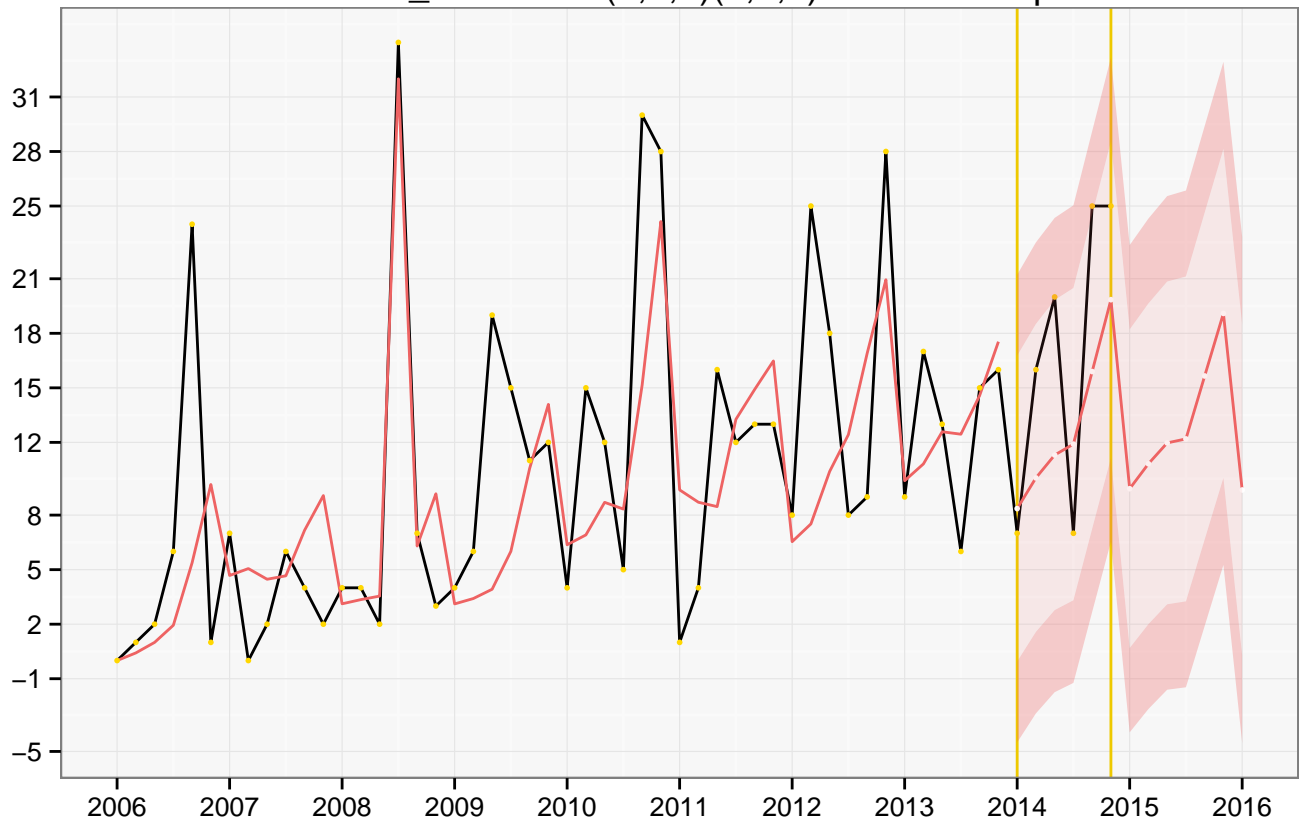




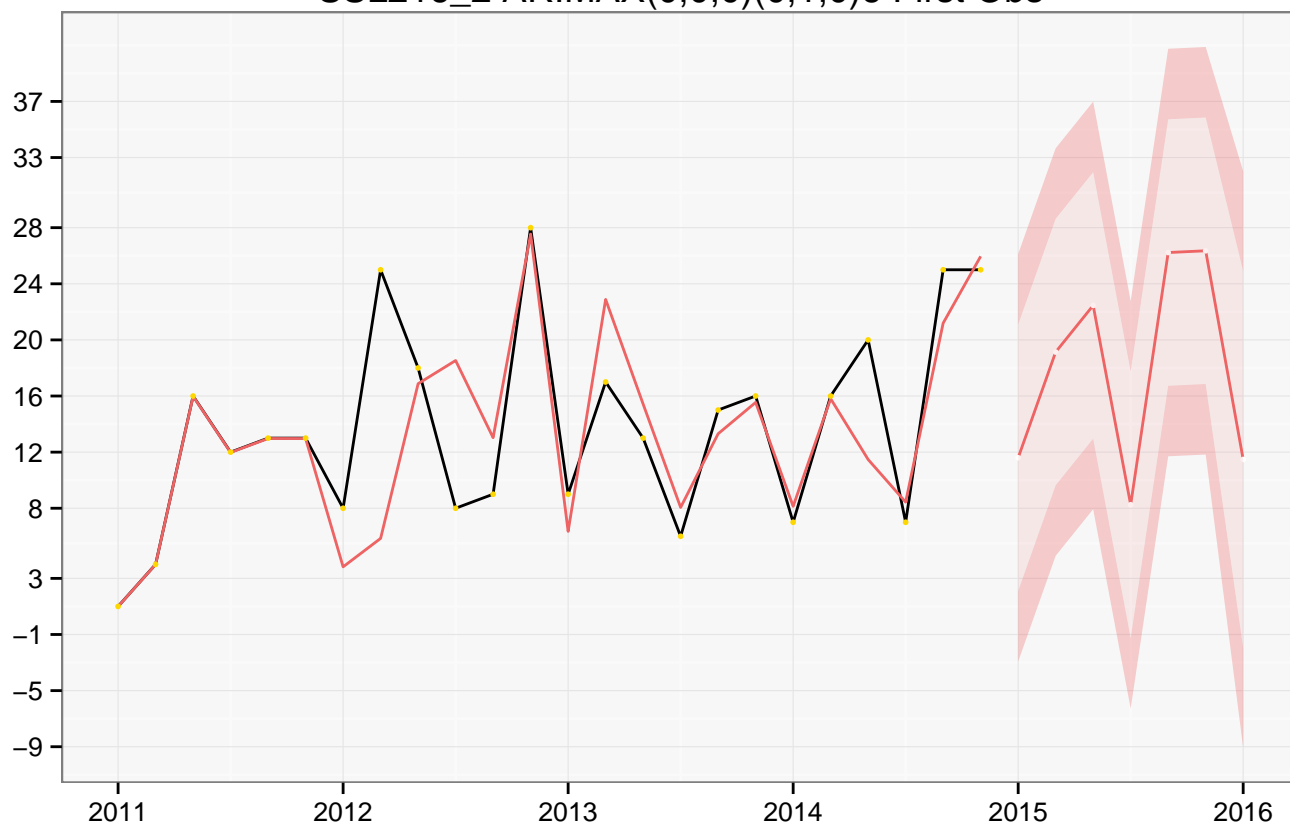
SSL216\_2 ARIMAX(0,1,1)(0,0,0)6



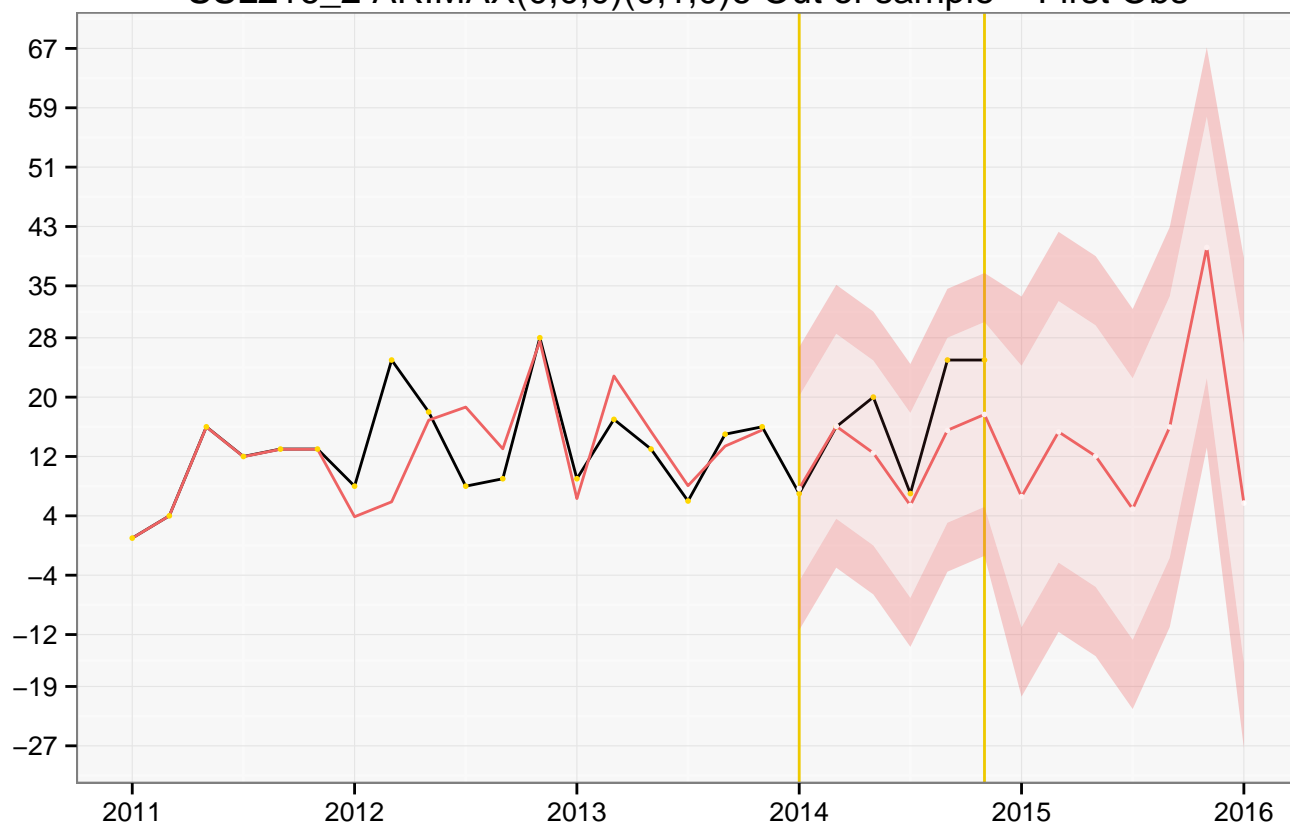
SSL216\_2 ARIMAX(0,1,1)(0,0,0)6 Out of sample



SSL216\_2 ARIMAX(0,0,0)(0,1,0)6 First Obs

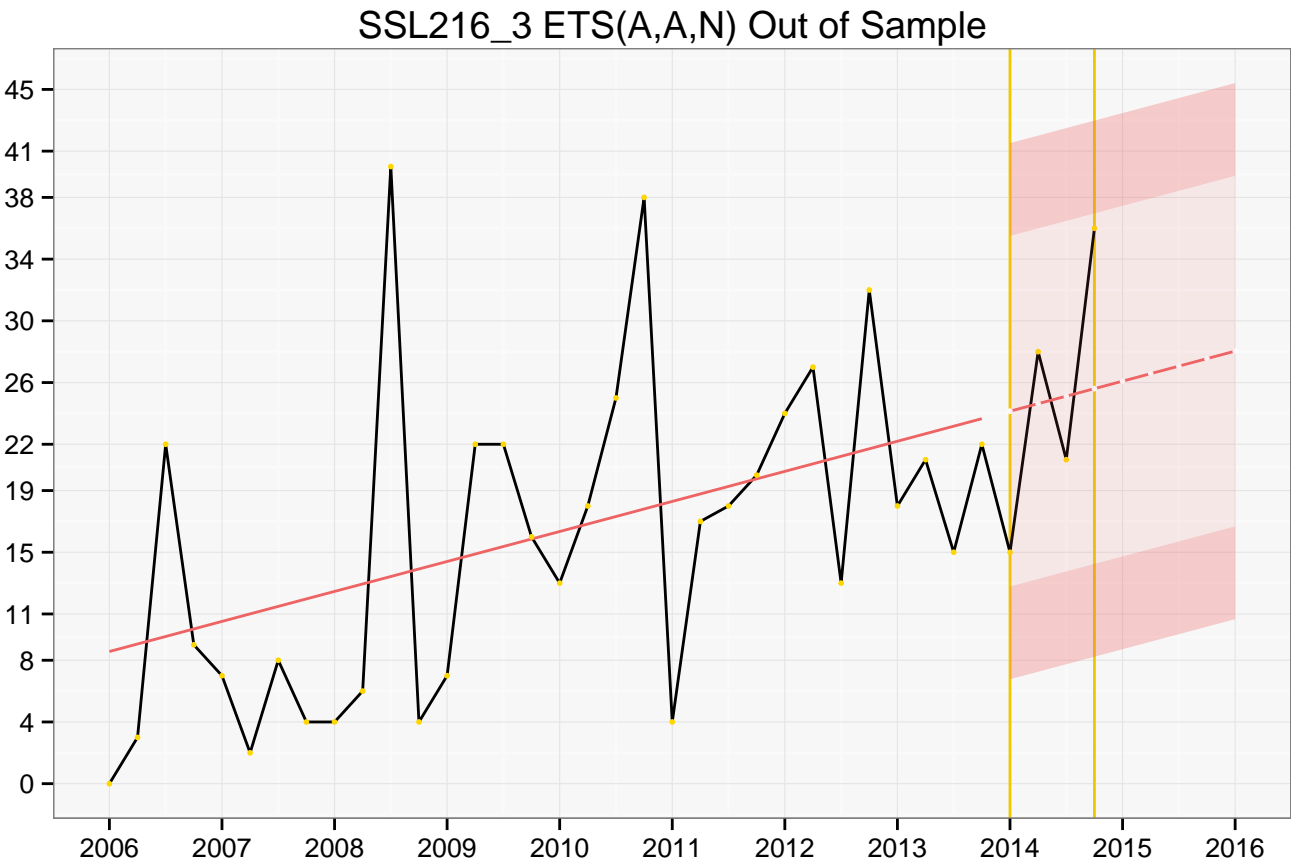
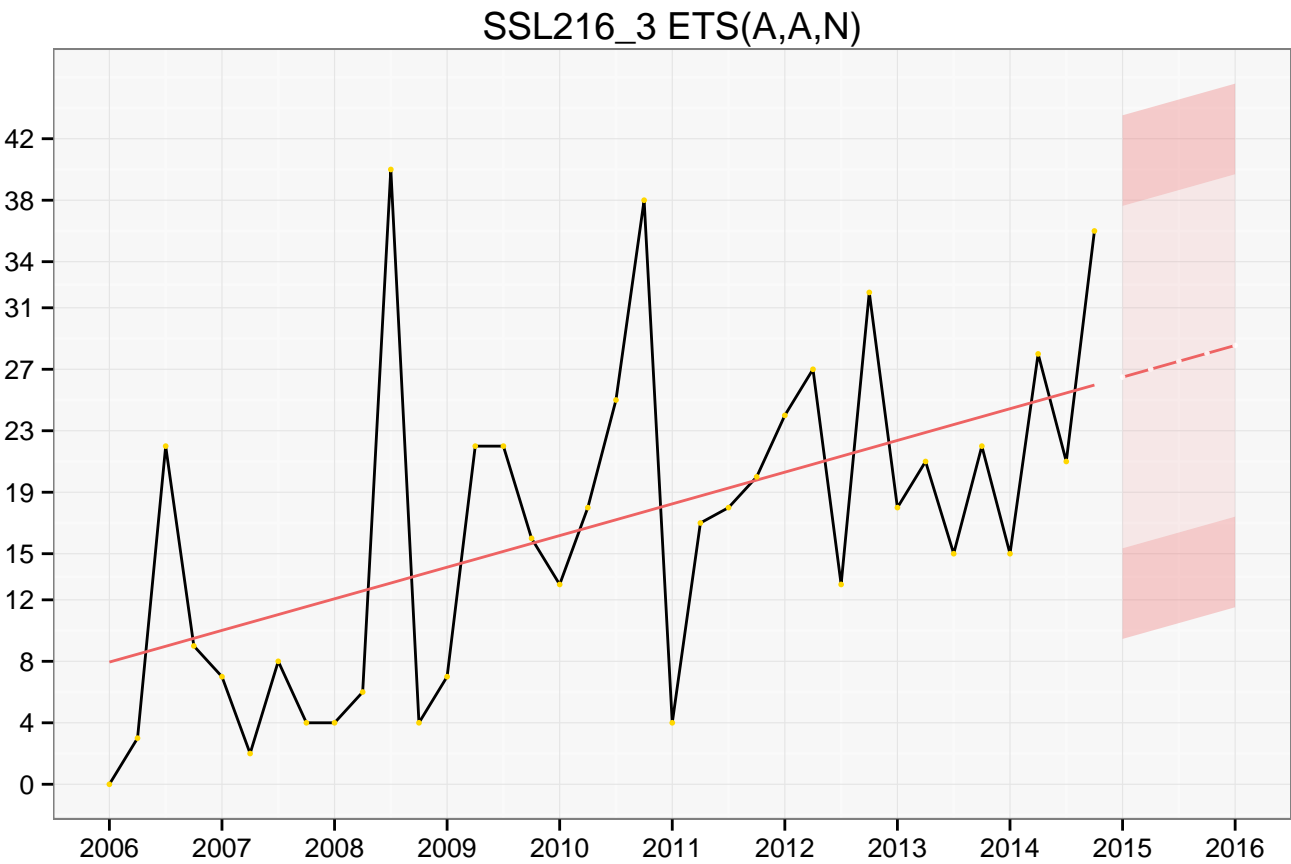


SSL216\_2 ARIMAX(0,0,0)(0,1,0)6 Out of sample – First Obs

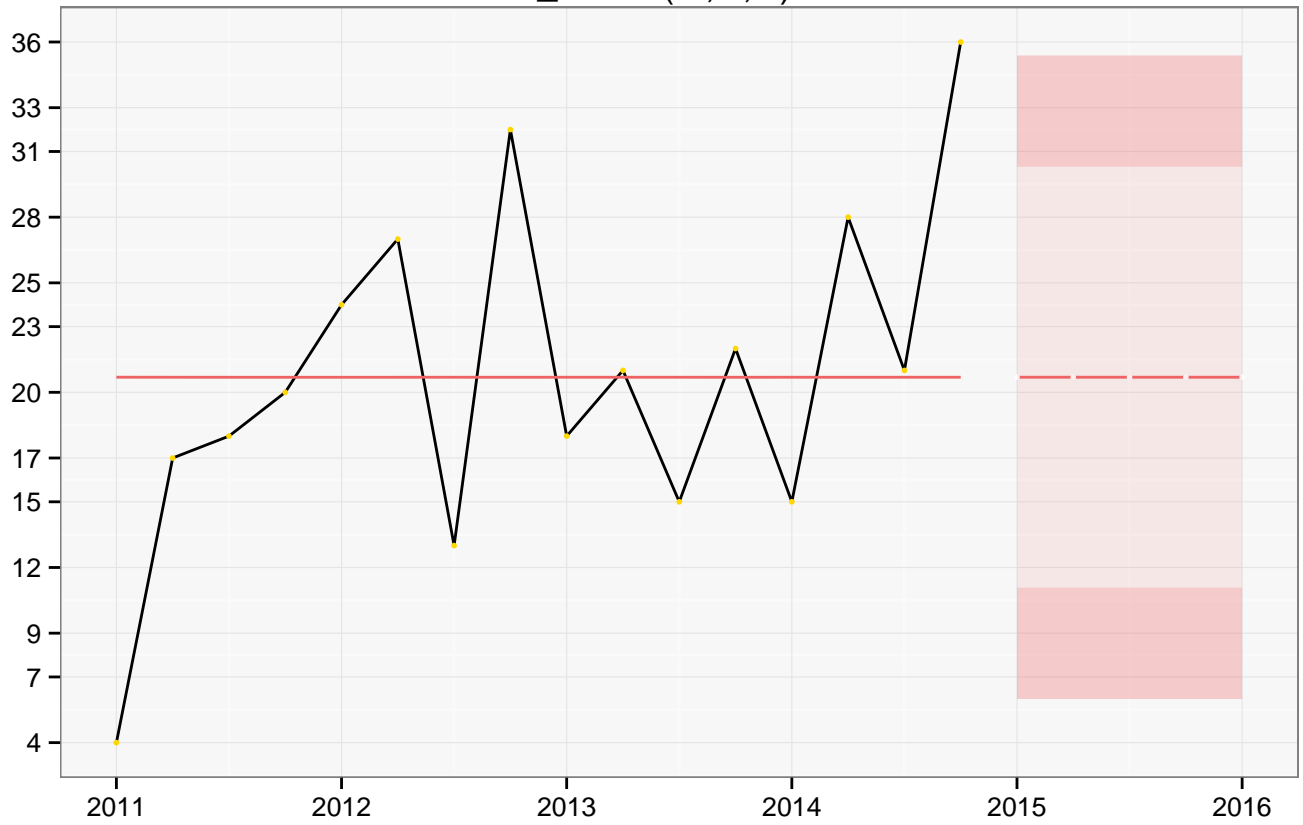


1.9 SSL216\_3

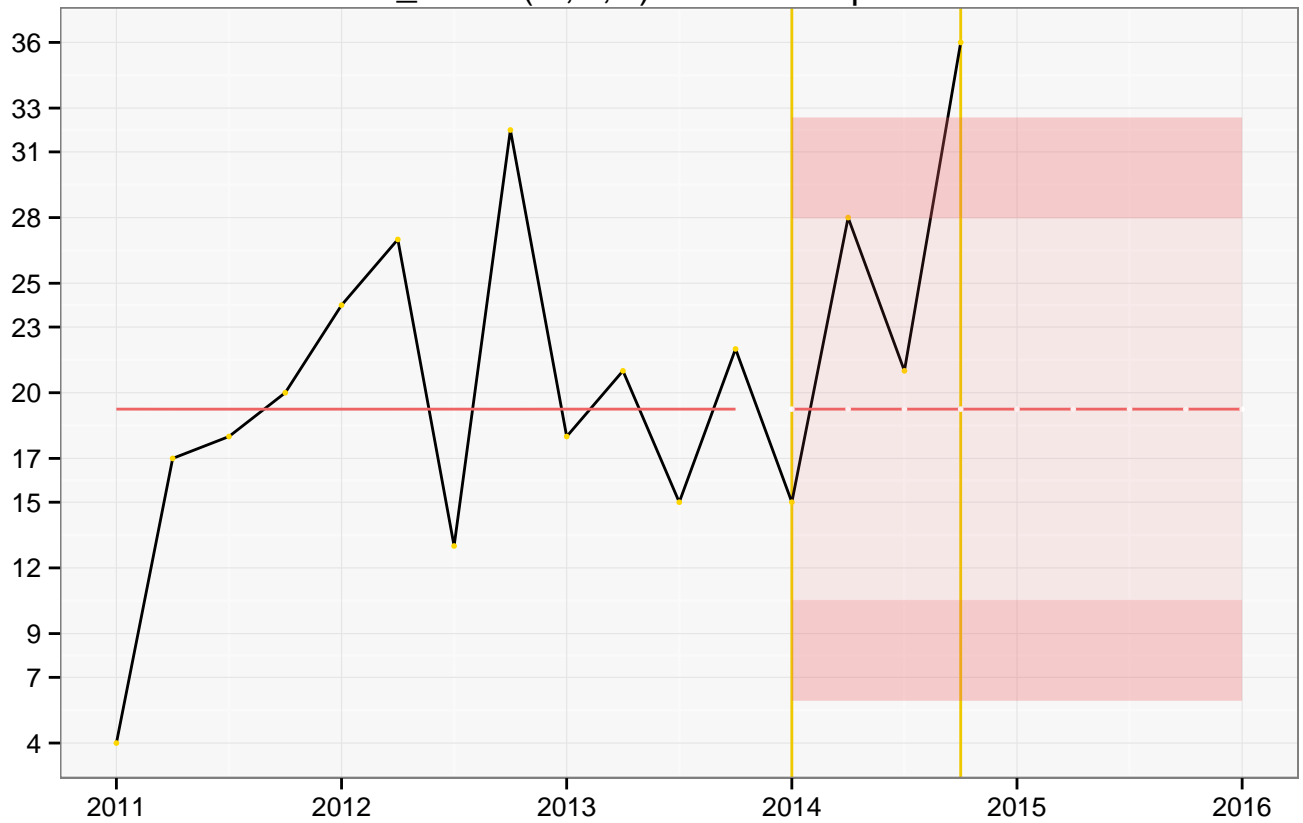
1.9.1 plots for SSL216\_3



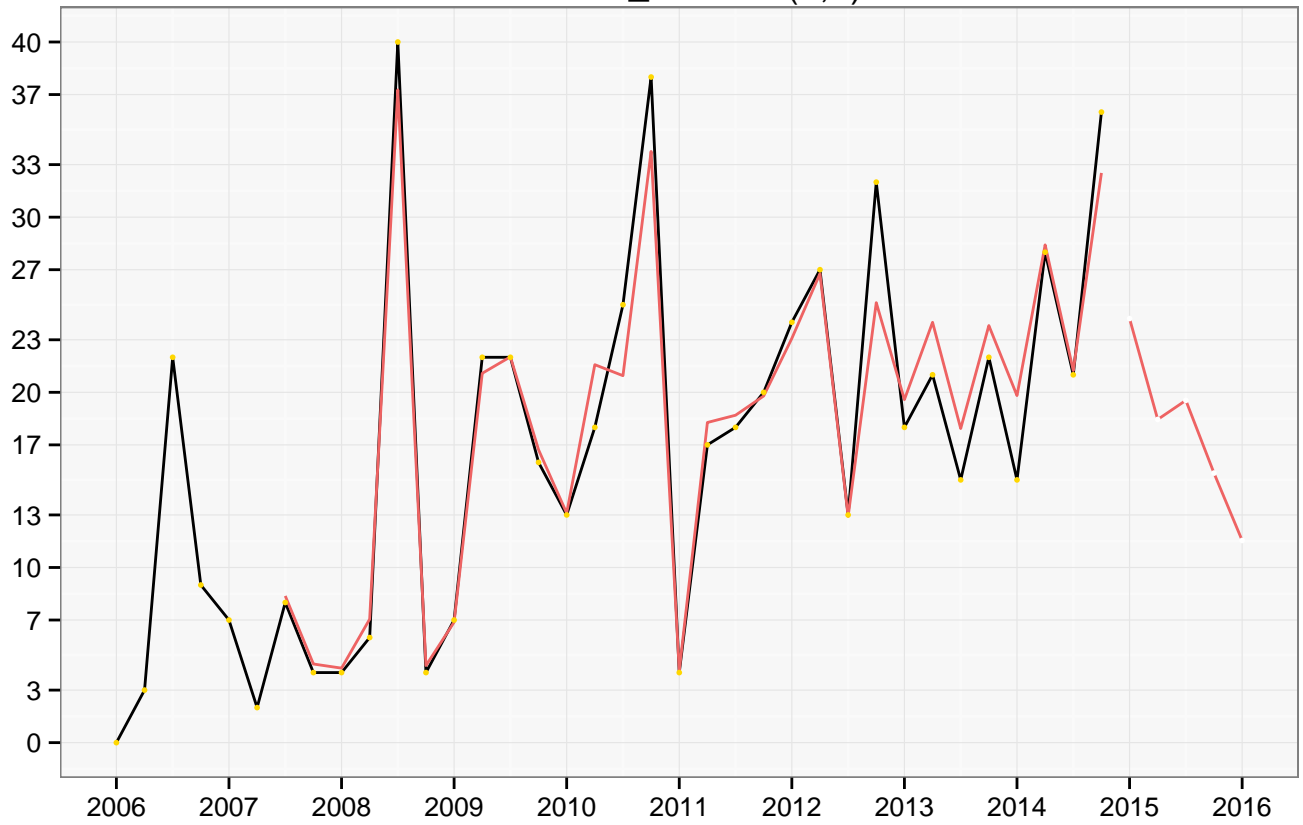
SSL216\_3 ETS(M,N,N) First Obs



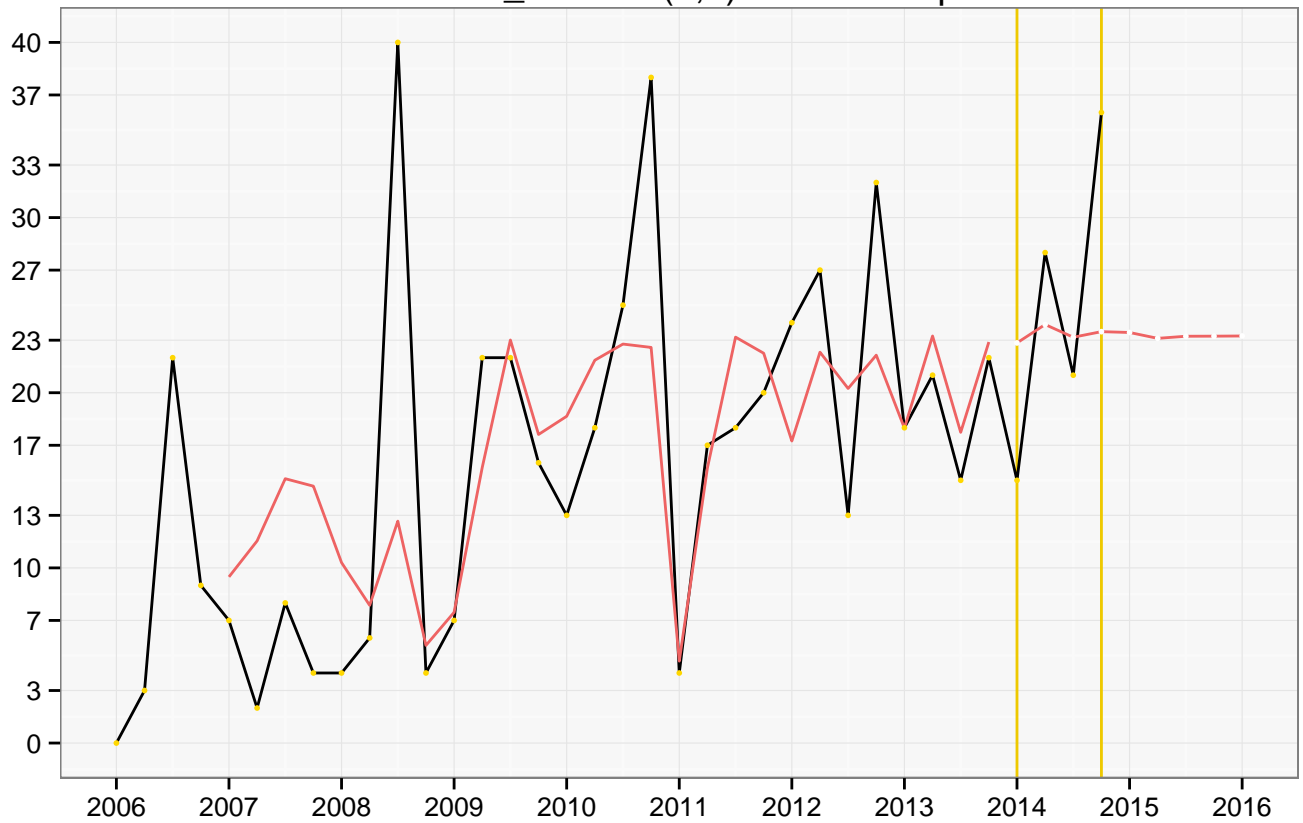
SSL216\_3 ETS(M,N,N) Out of Sample – First Obs



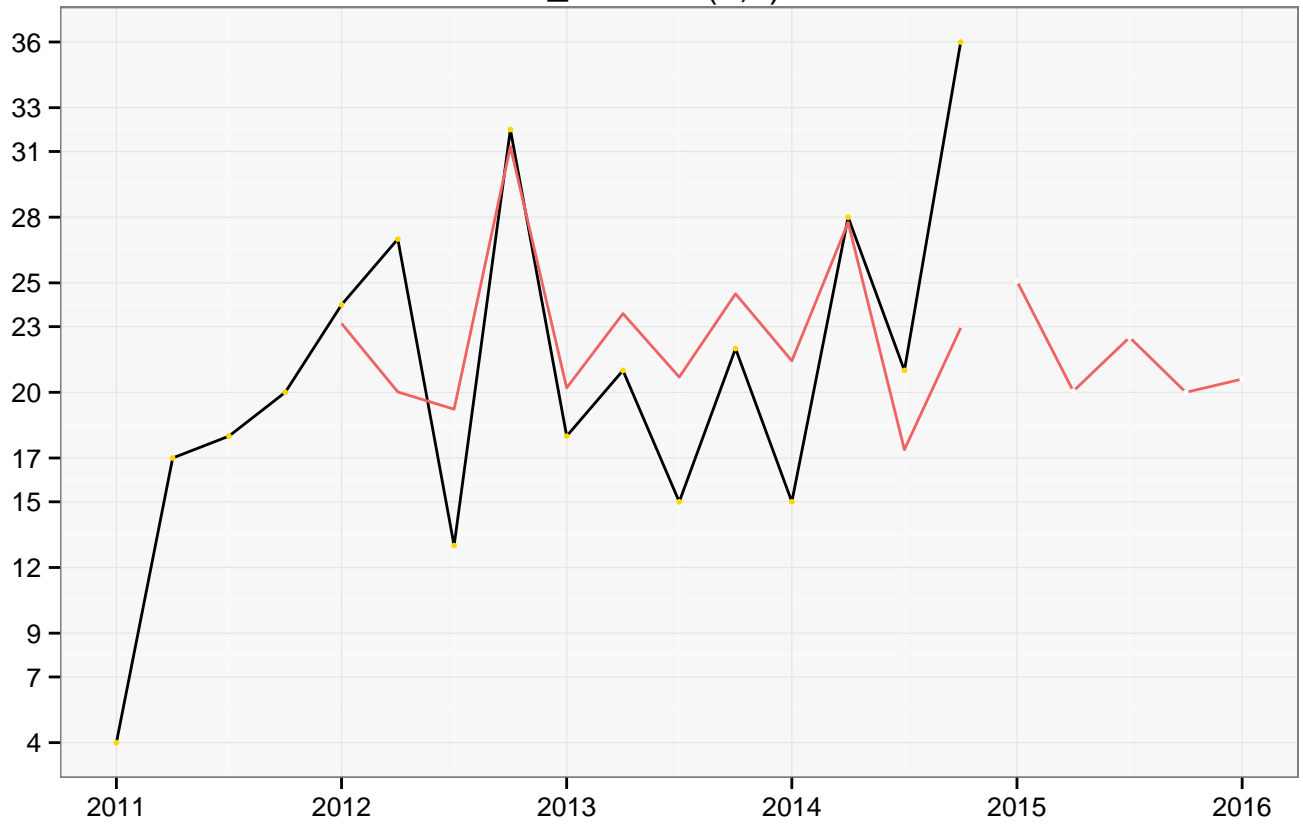
SSL216\_3 NNAR(6,1)



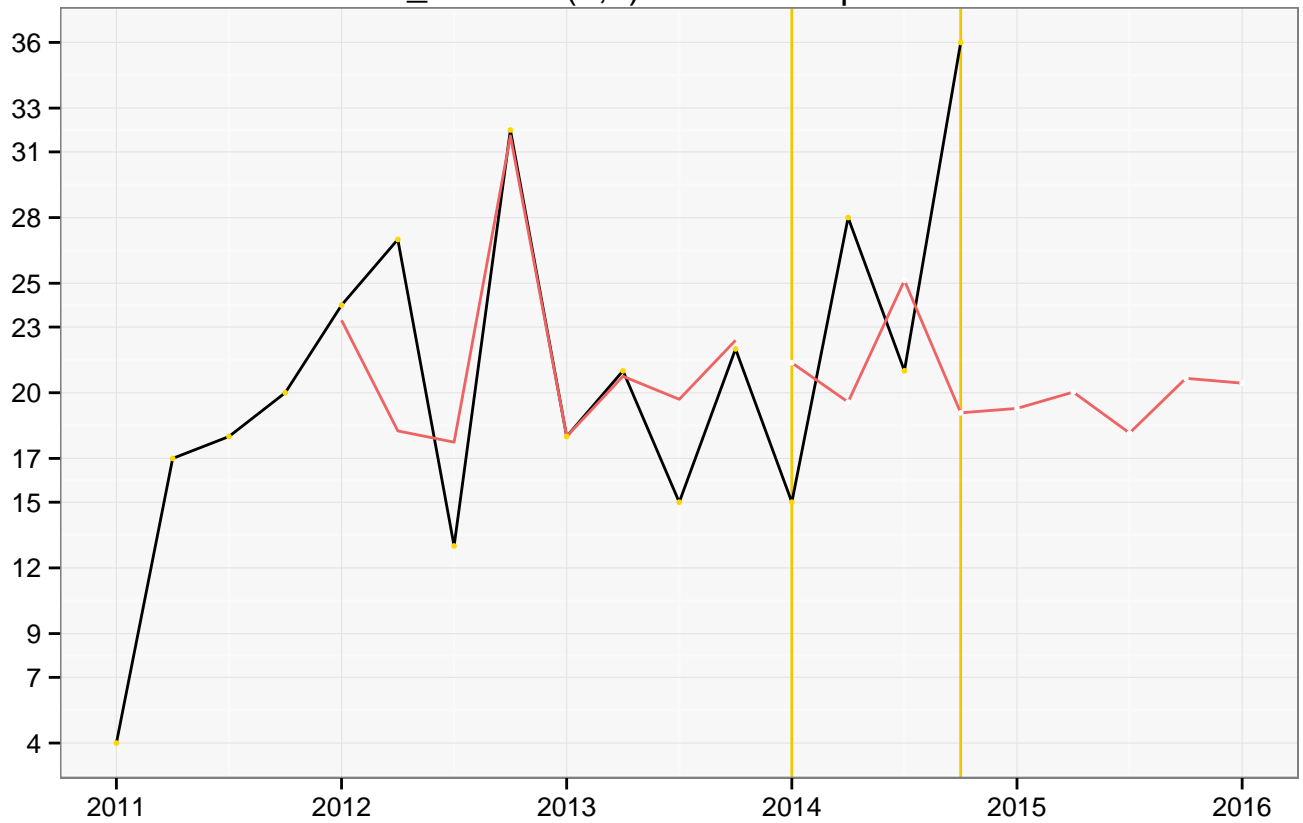
SSL216\_3 NNAR(3,1) Out of Sample



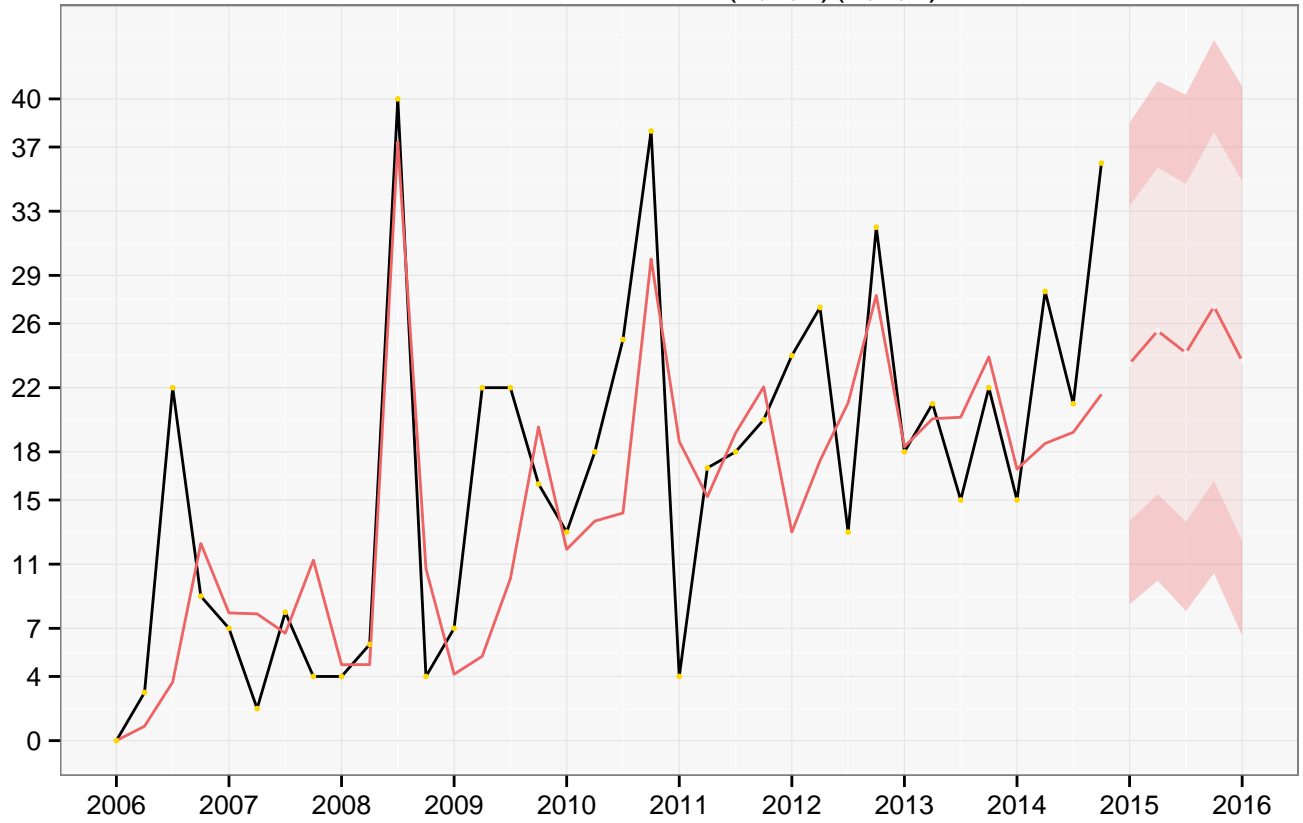
SSL216\_3 NNAR(1,1) First Obs



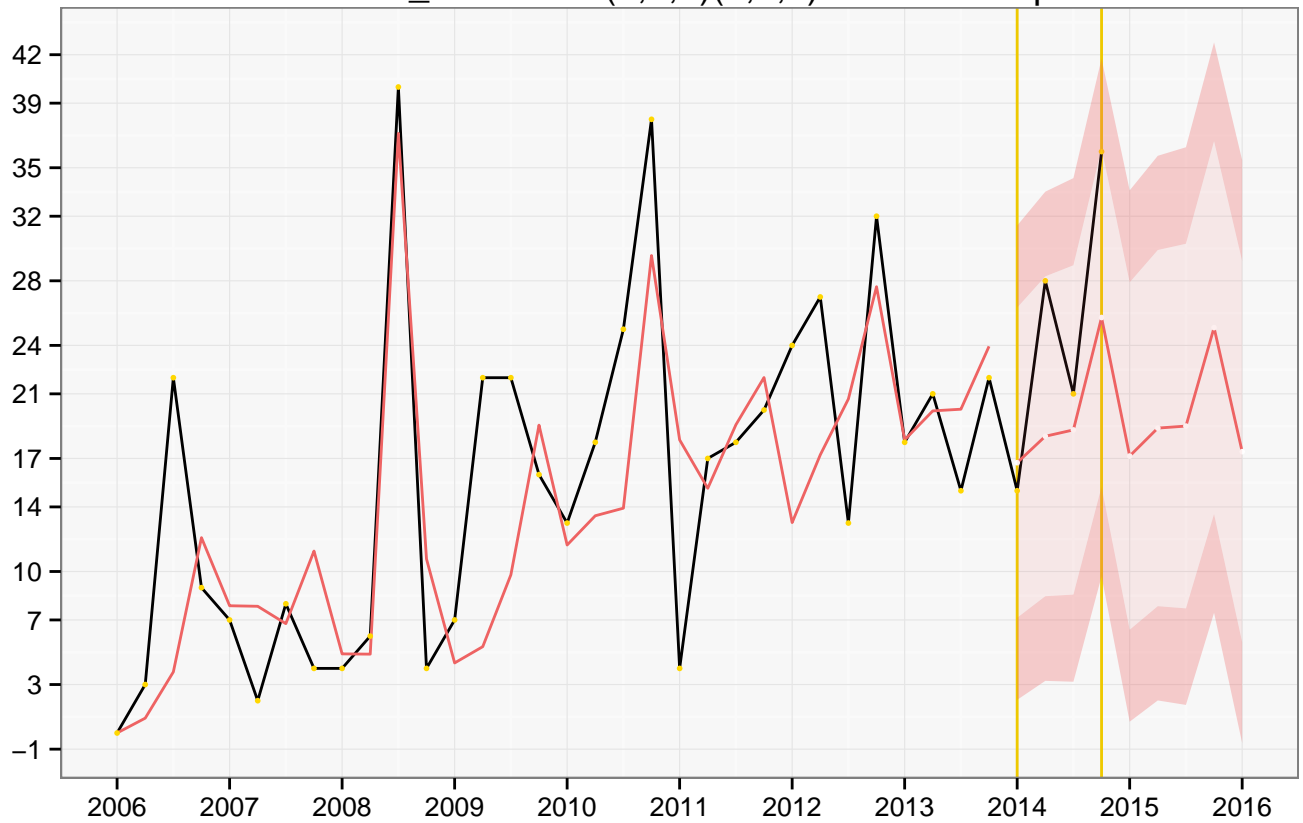
SSL216\_3 NNAR(1,1) Out of Sample – First Obs

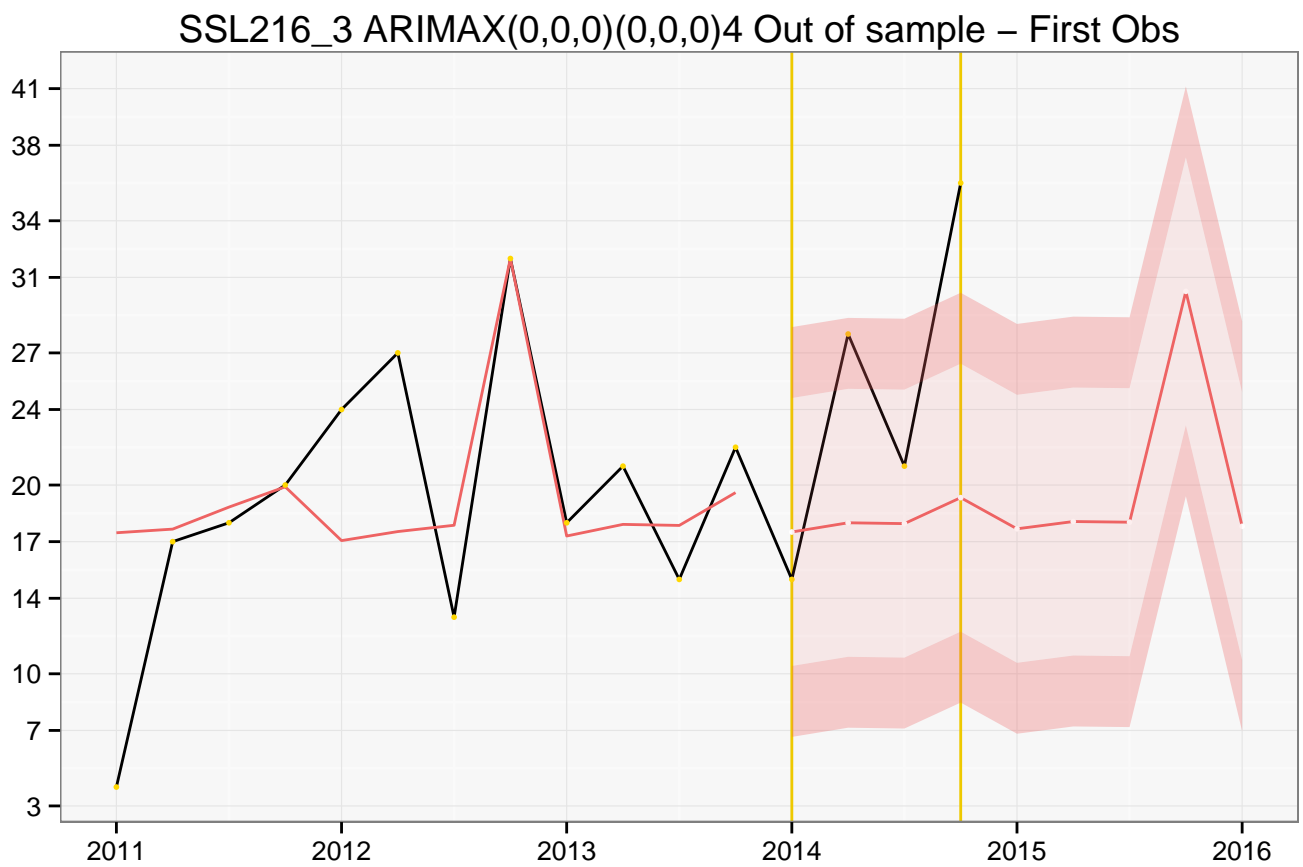
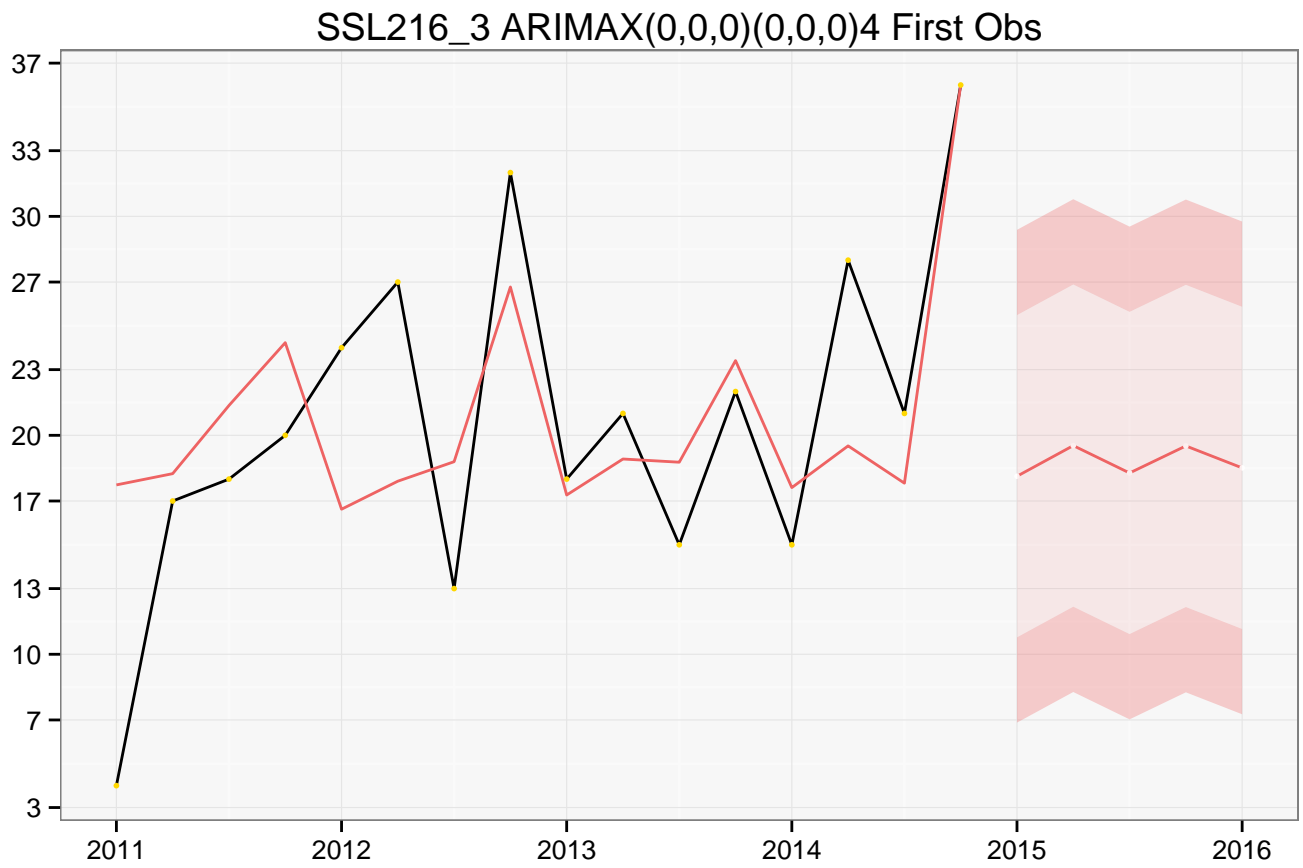


SSL216\_3 ARIMAX(0,1,1)(0,0,0)4



SSL216\_3 ARIMAX(0,1,1)(0,0,0)4 Out of sample

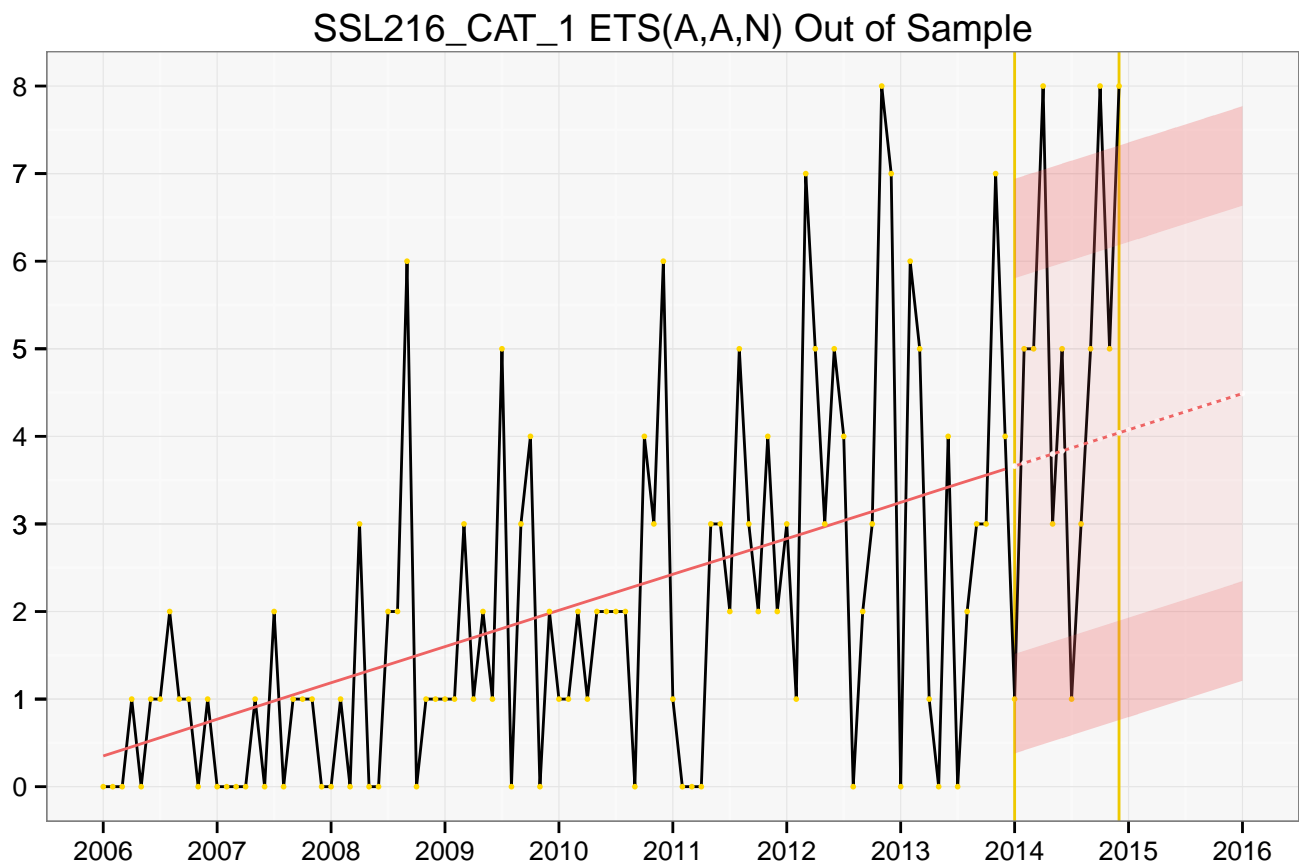
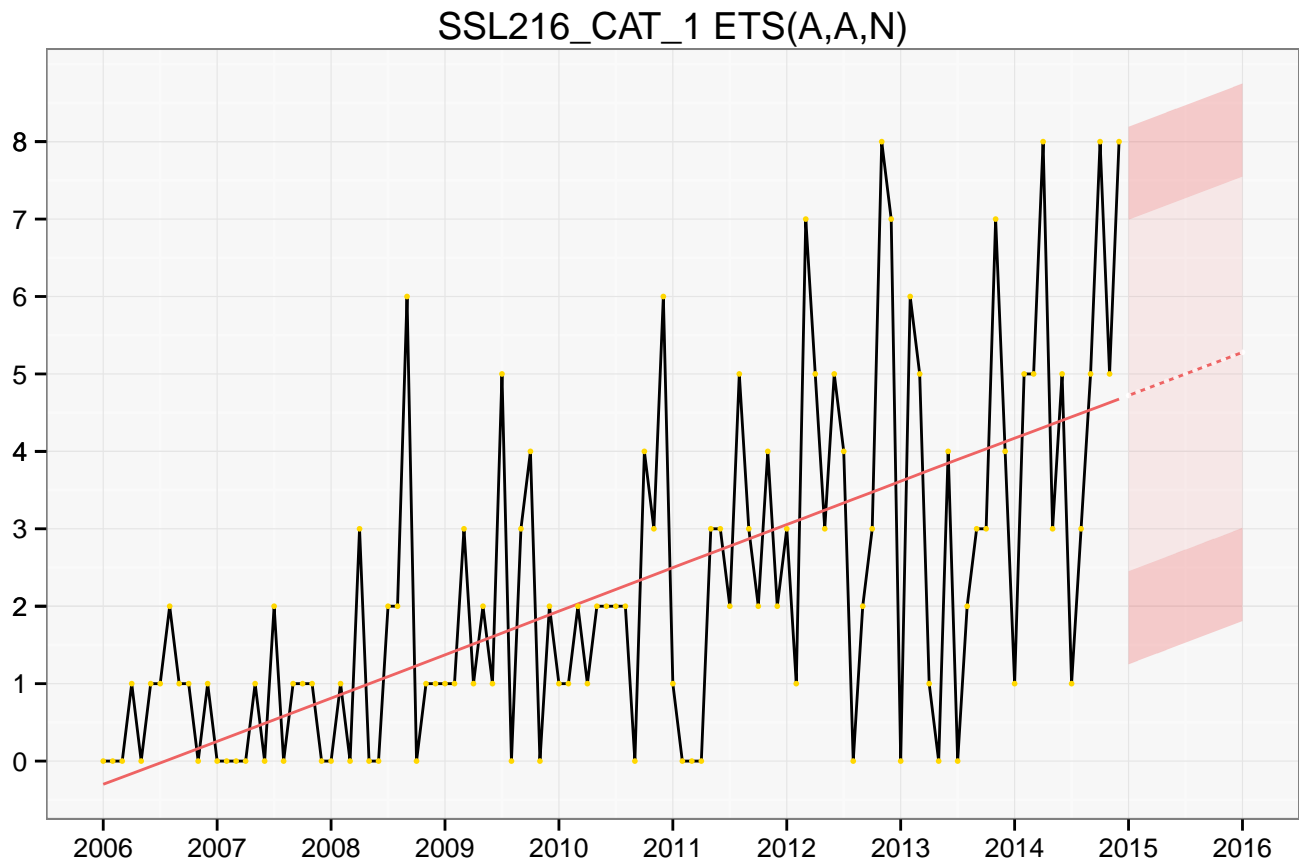




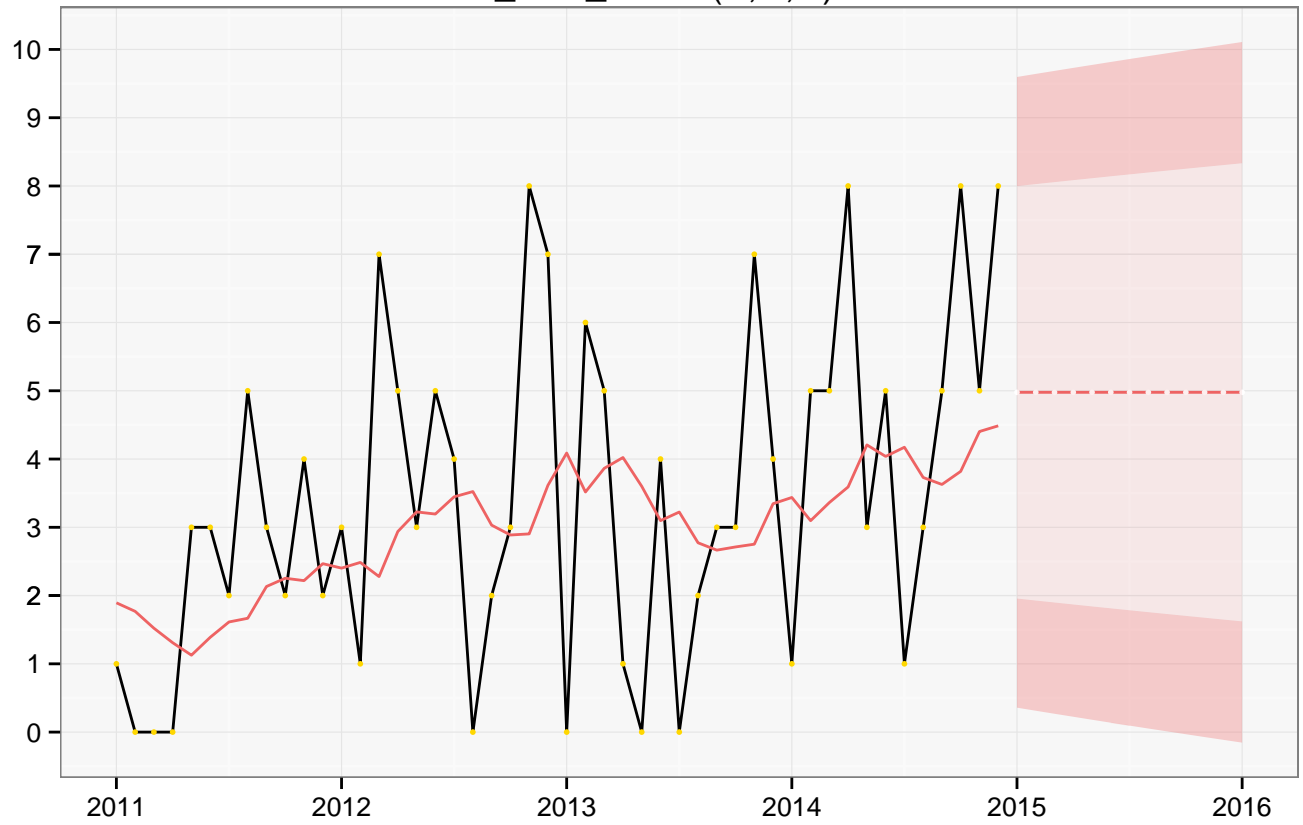


1.10 SSL216\_CAT\_1

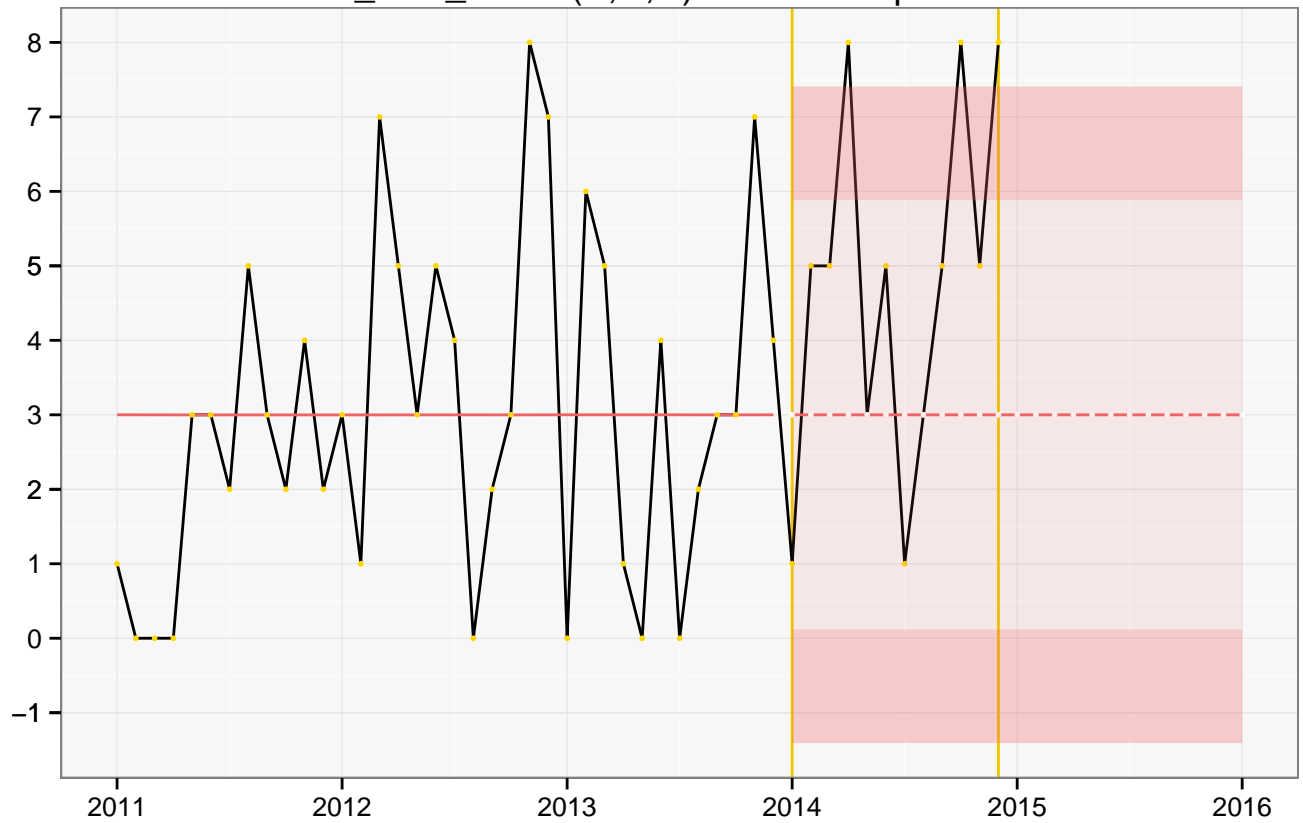
1.10.1 plots for SSL216\_CAT\_1



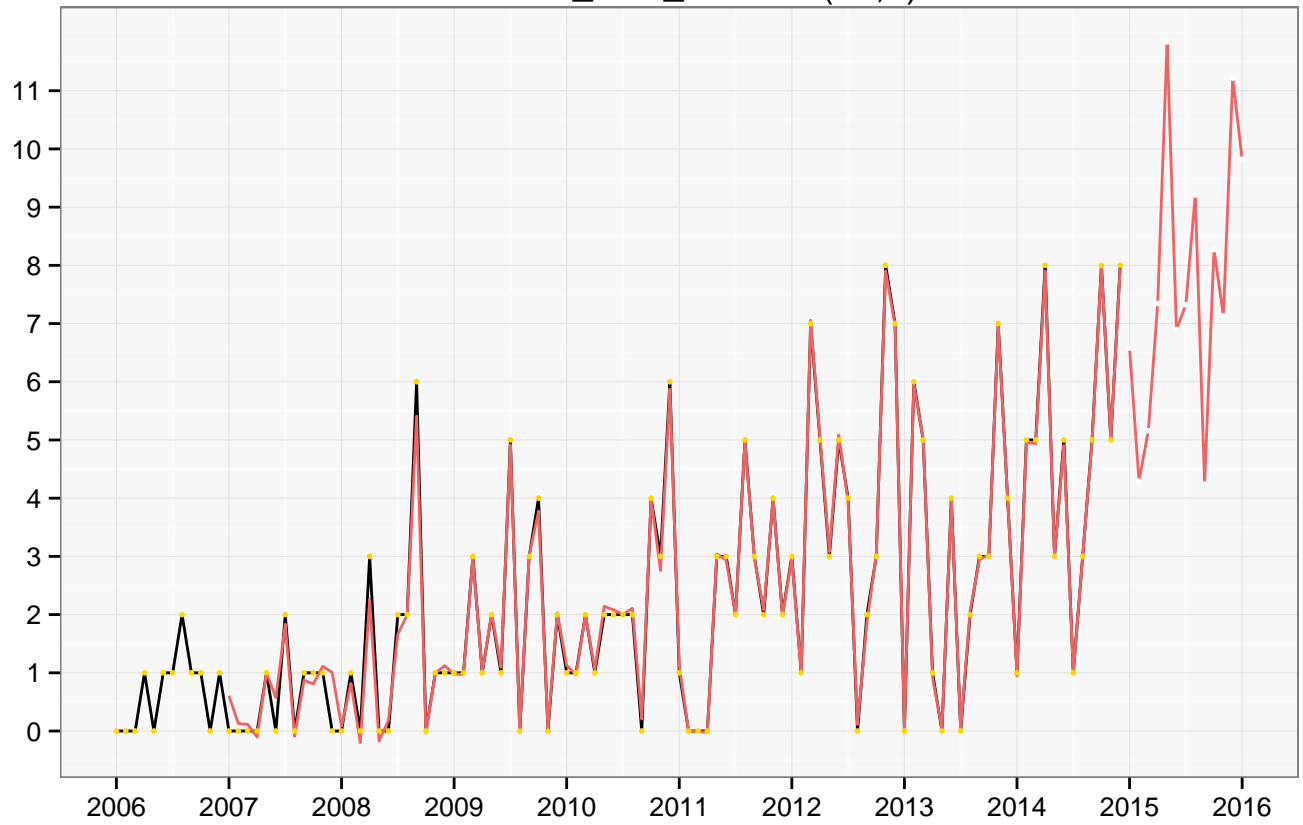
SSL216\_CAT\_1 ETS(A,N,N) First Obs



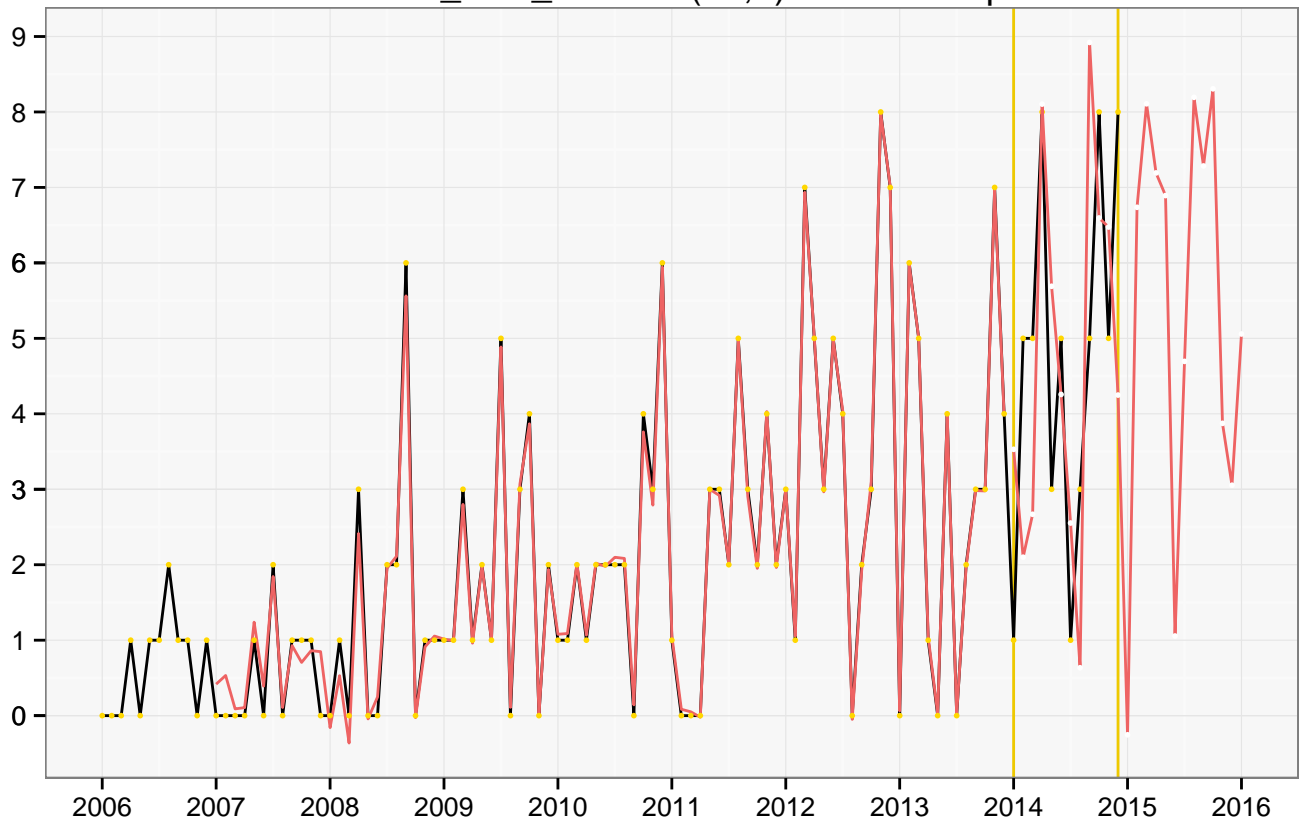
SSL216\_CAT\_1 ETS(A,N,N) Out of Sample – First Obs



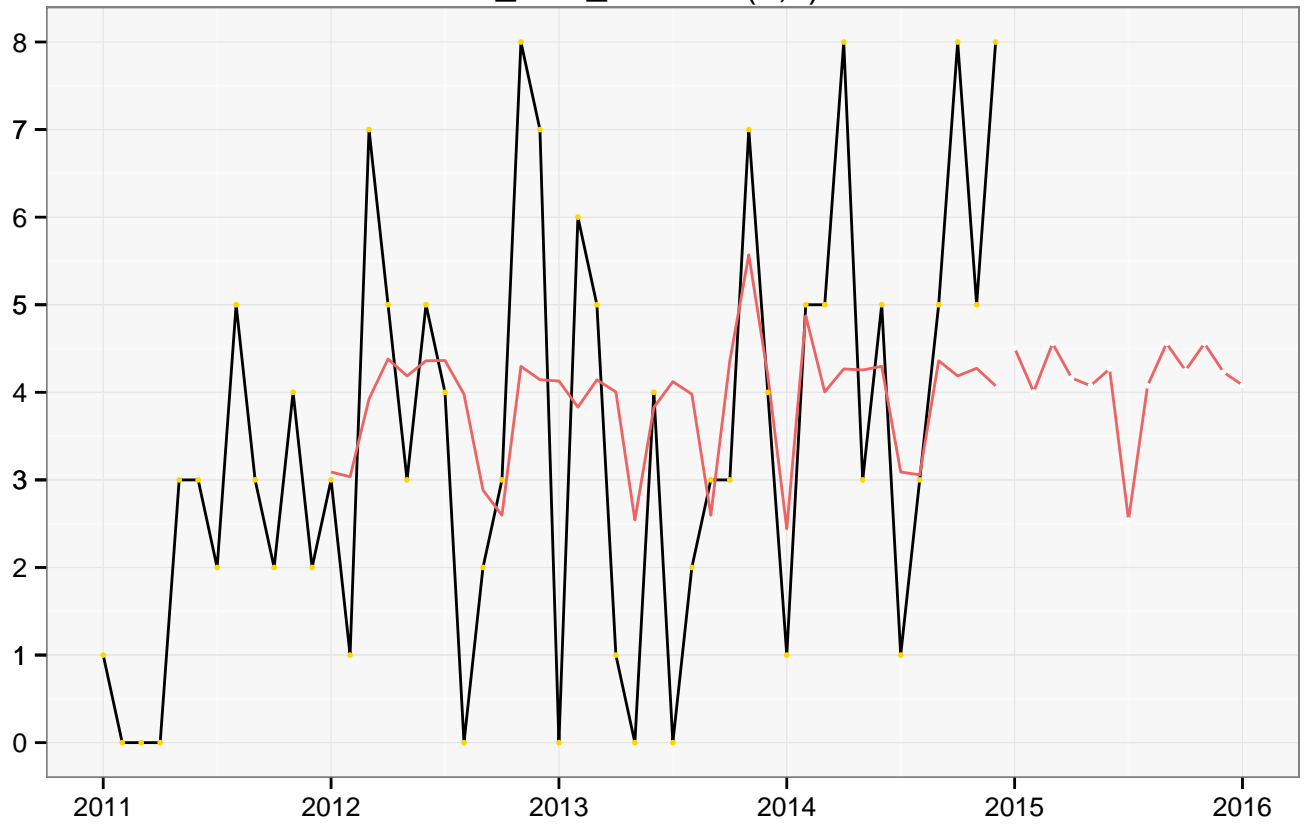
SSL216\_CAT\_1 NNAR(12,1)



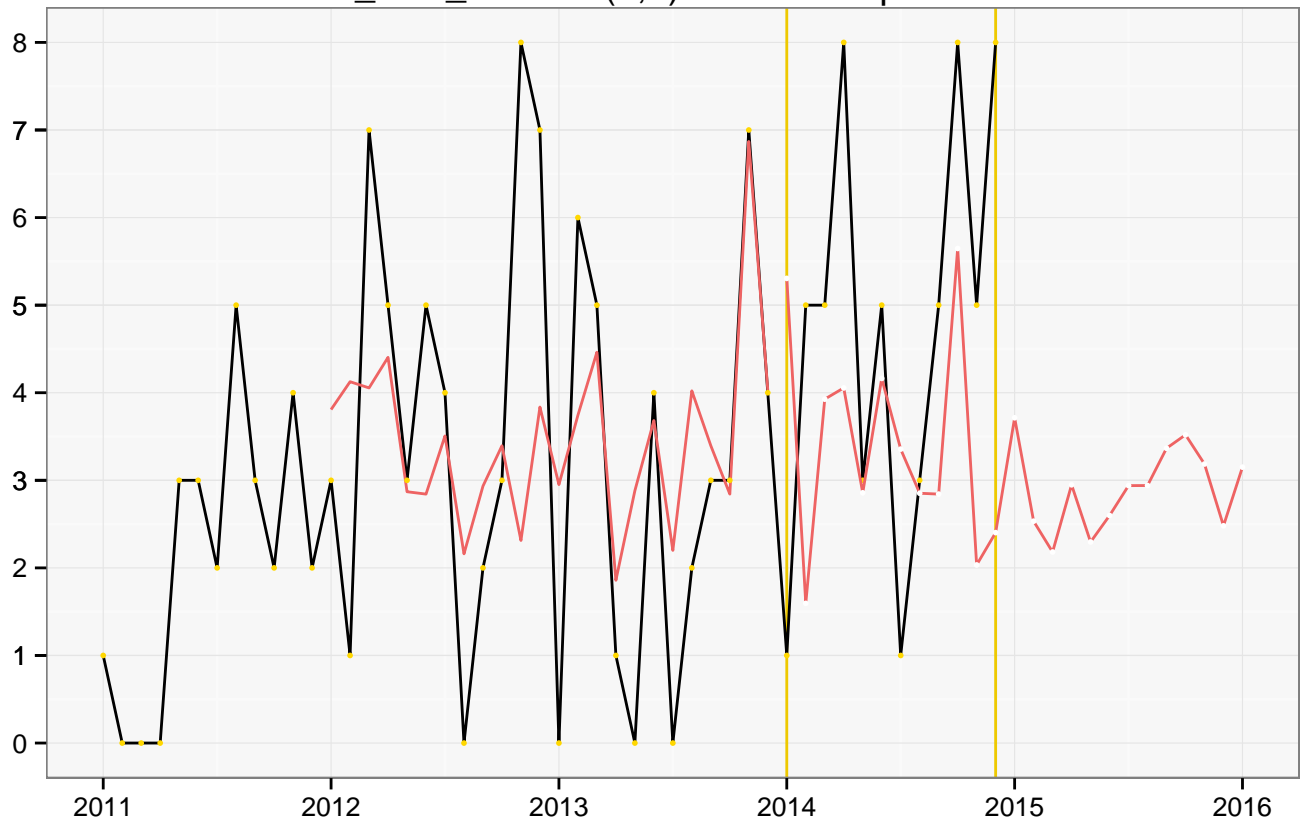
SSL216\_CAT\_1 NNAR(12,1) Out of Sample



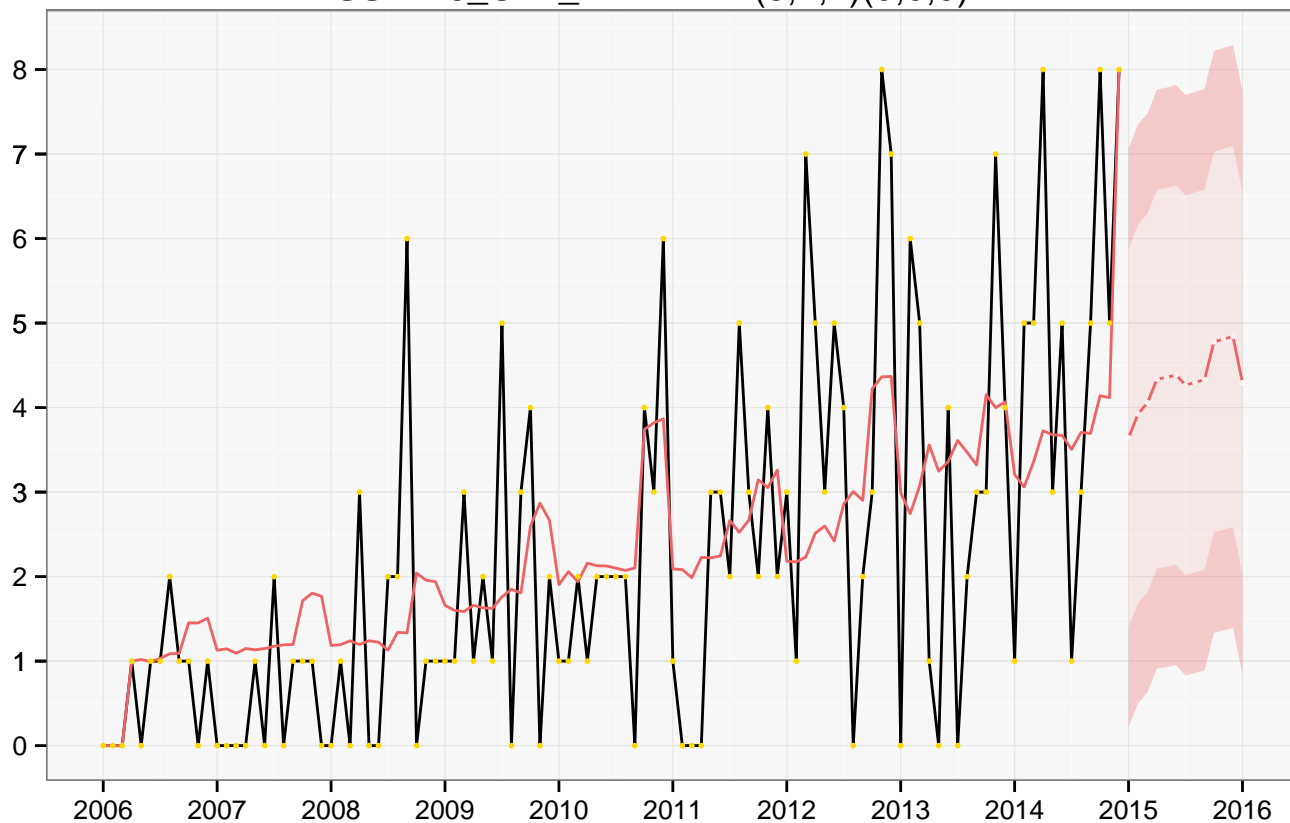
SSL216\_CAT\_1 NNAR(1,1) First Obs



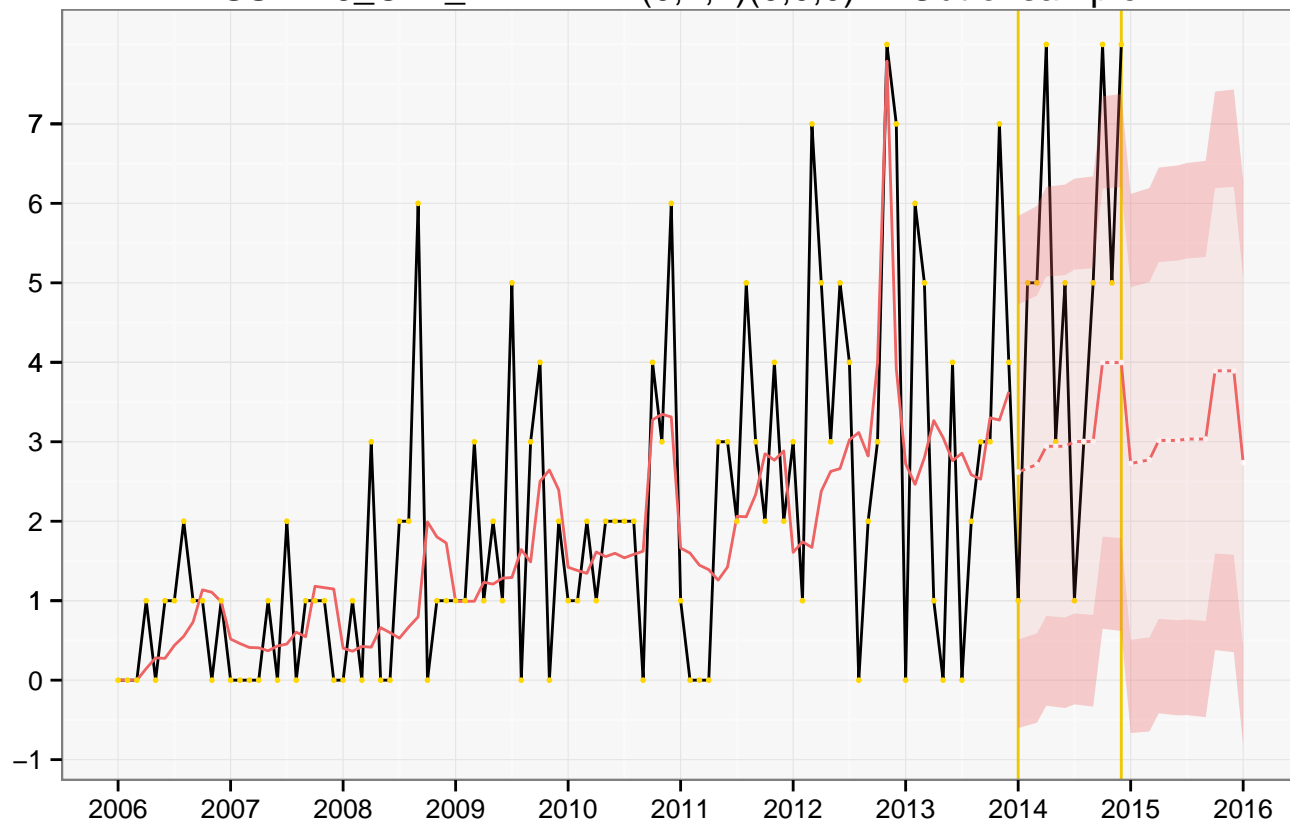
SSL216\_CAT\_1 NNAR(1,1) Out of Sample – First Obs



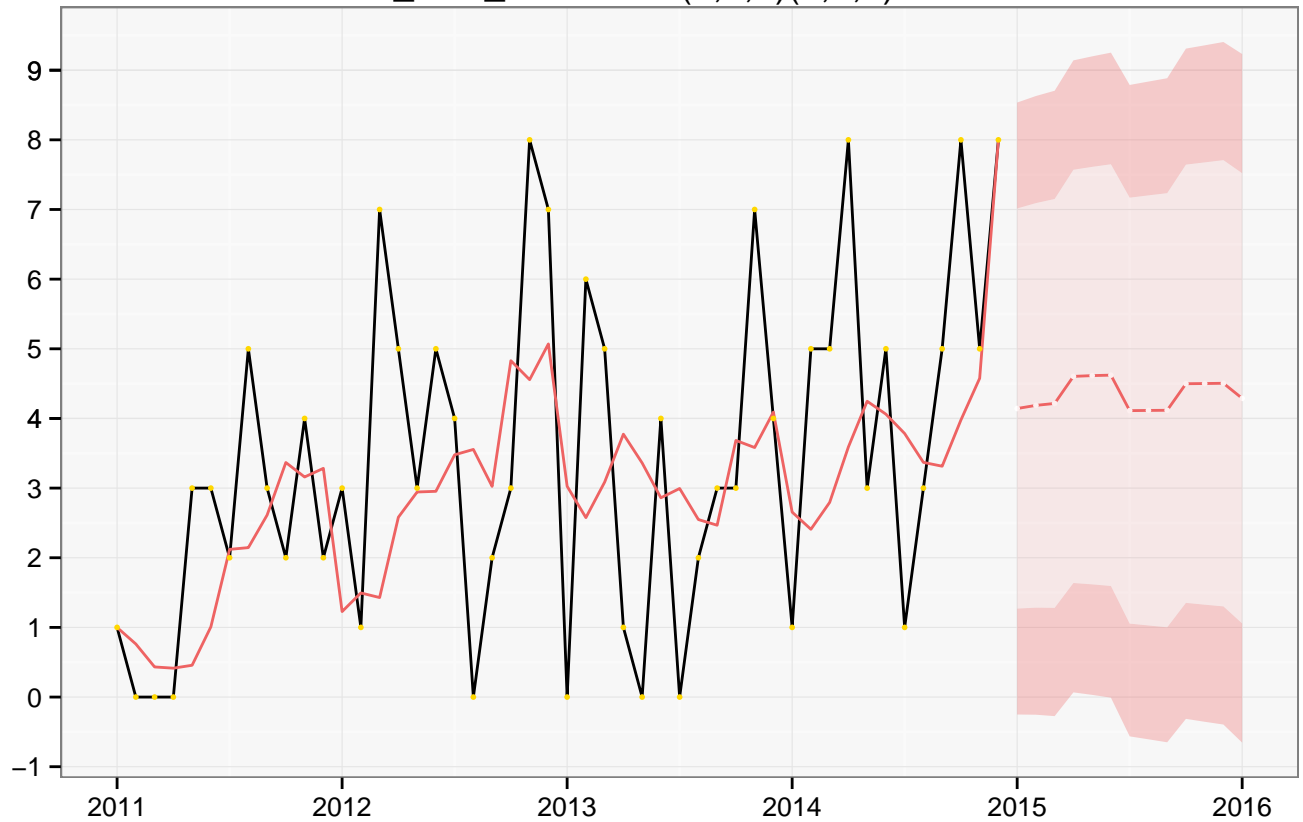
SSL216\_CAT\_1 ARIMAX(3,1,1)(0,0,0)12



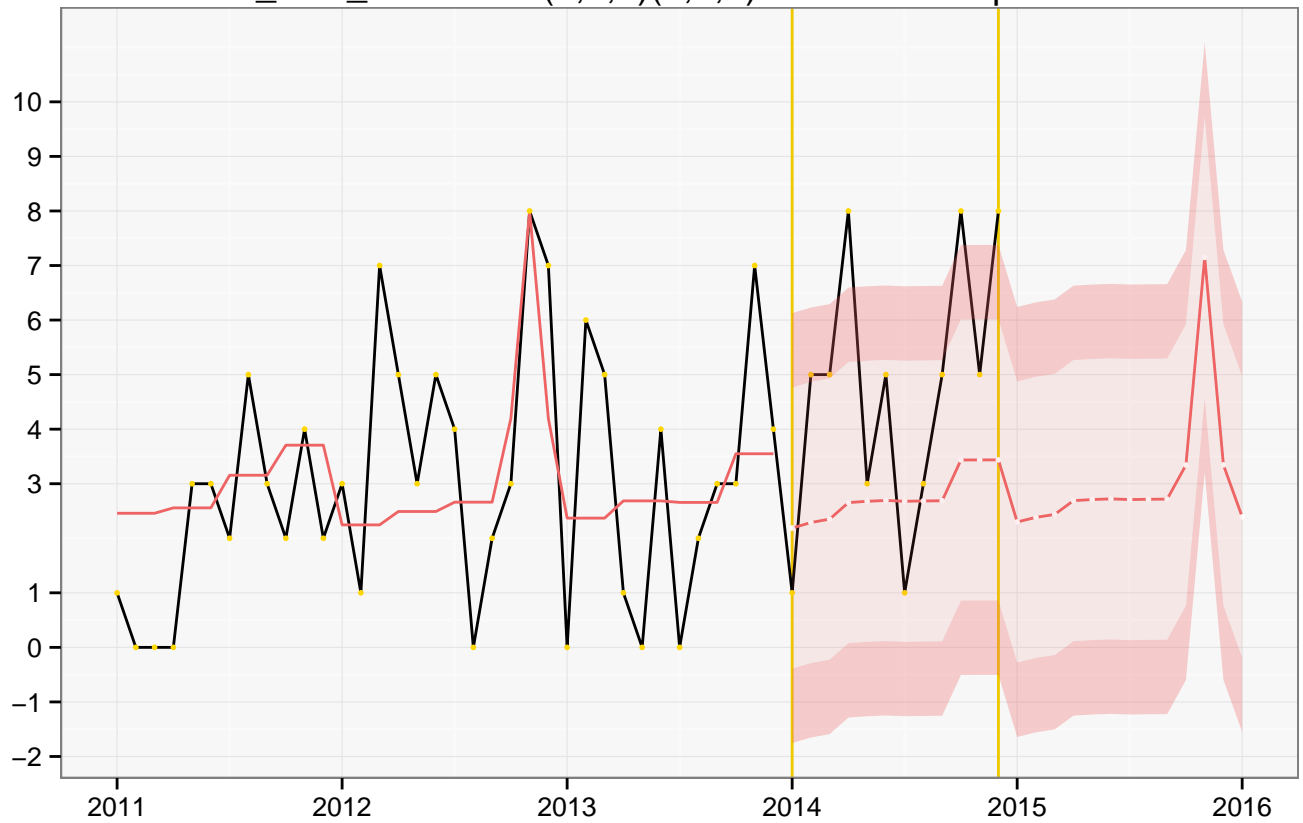
SSL216\_CAT\_1 ARIMAX(0,1,1)(0,0,0)12 Out of sample



SSL216\_CAT\_1 ARIMAX(0,1,1)(0,0,0)12 First Obs

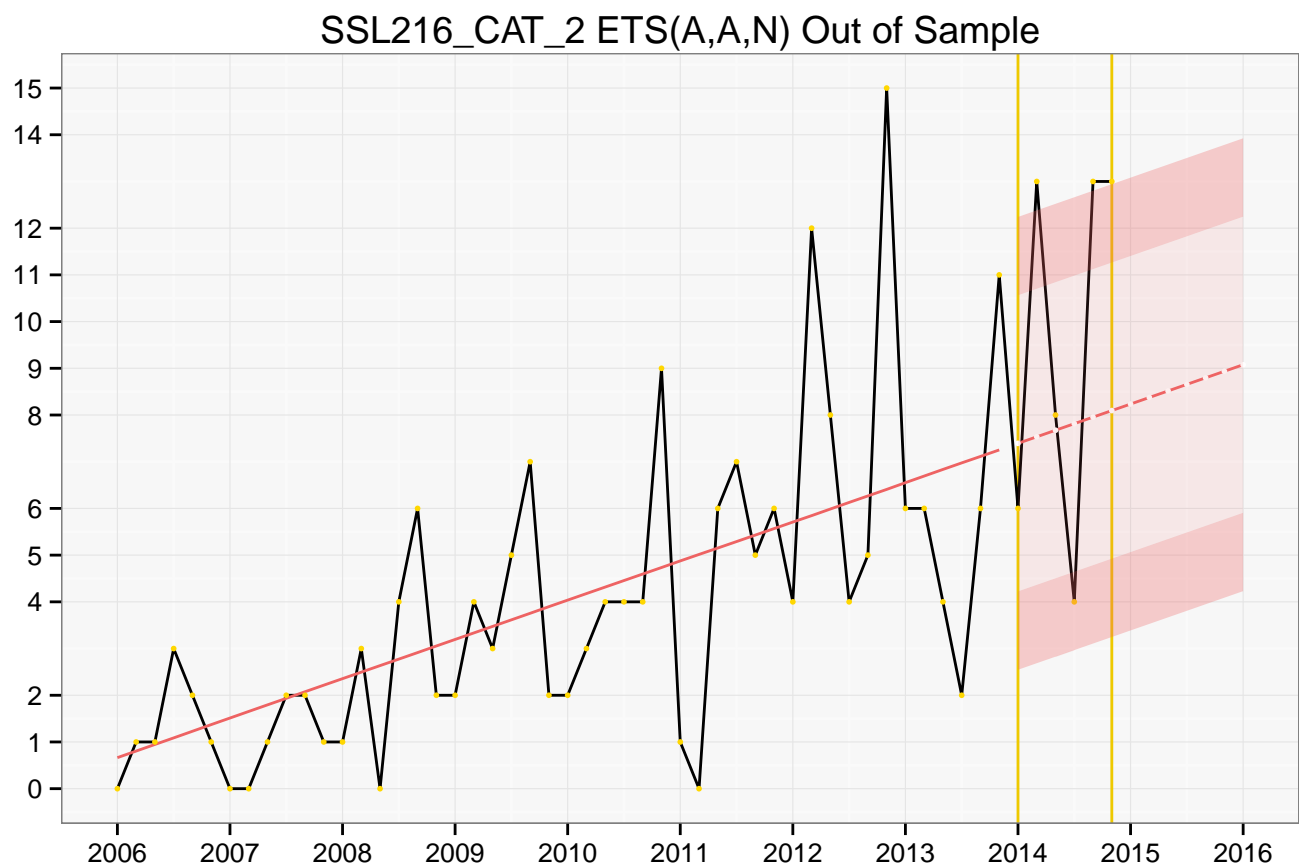
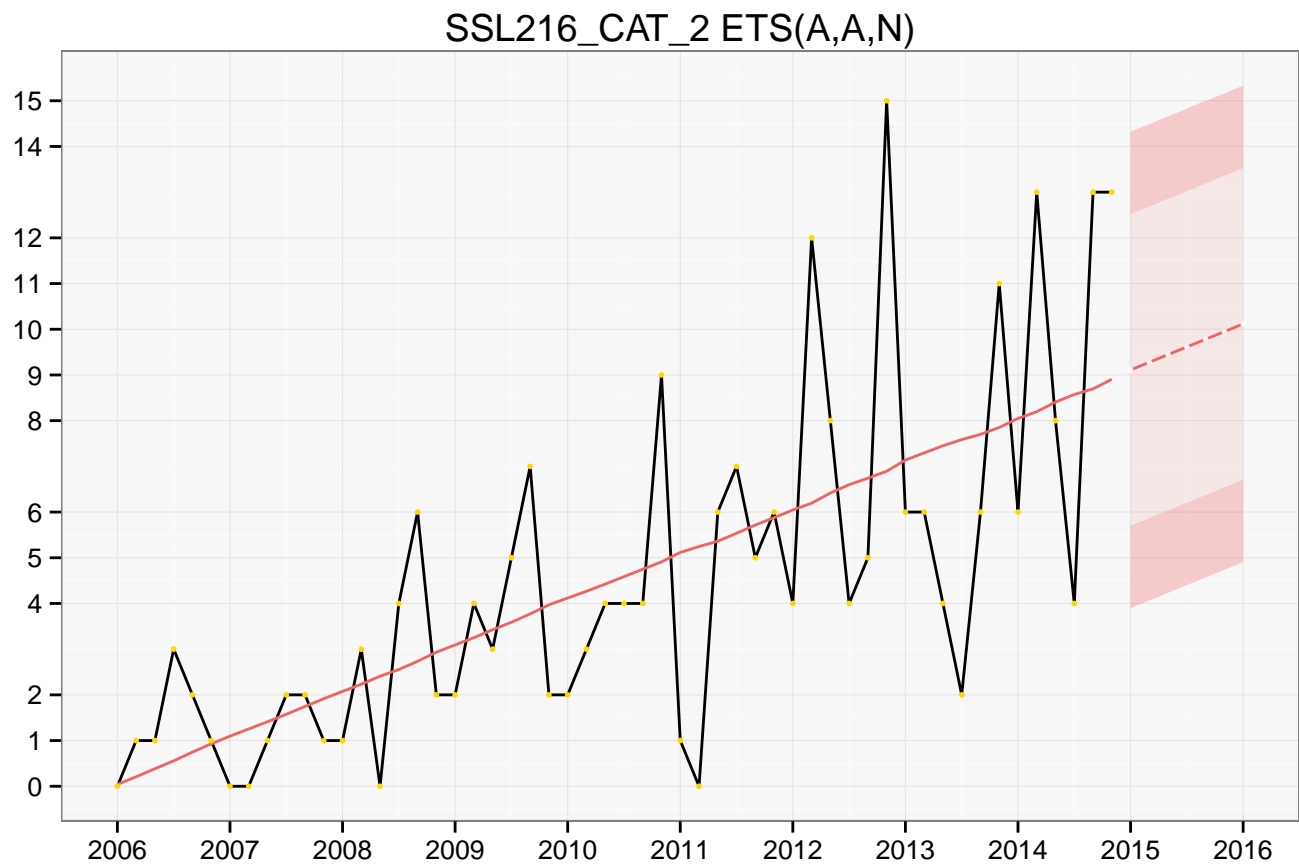


SSL216\_CAT\_1 ARIMAX(0,0,0)(0,0,0)12 Out of sample – First Obs

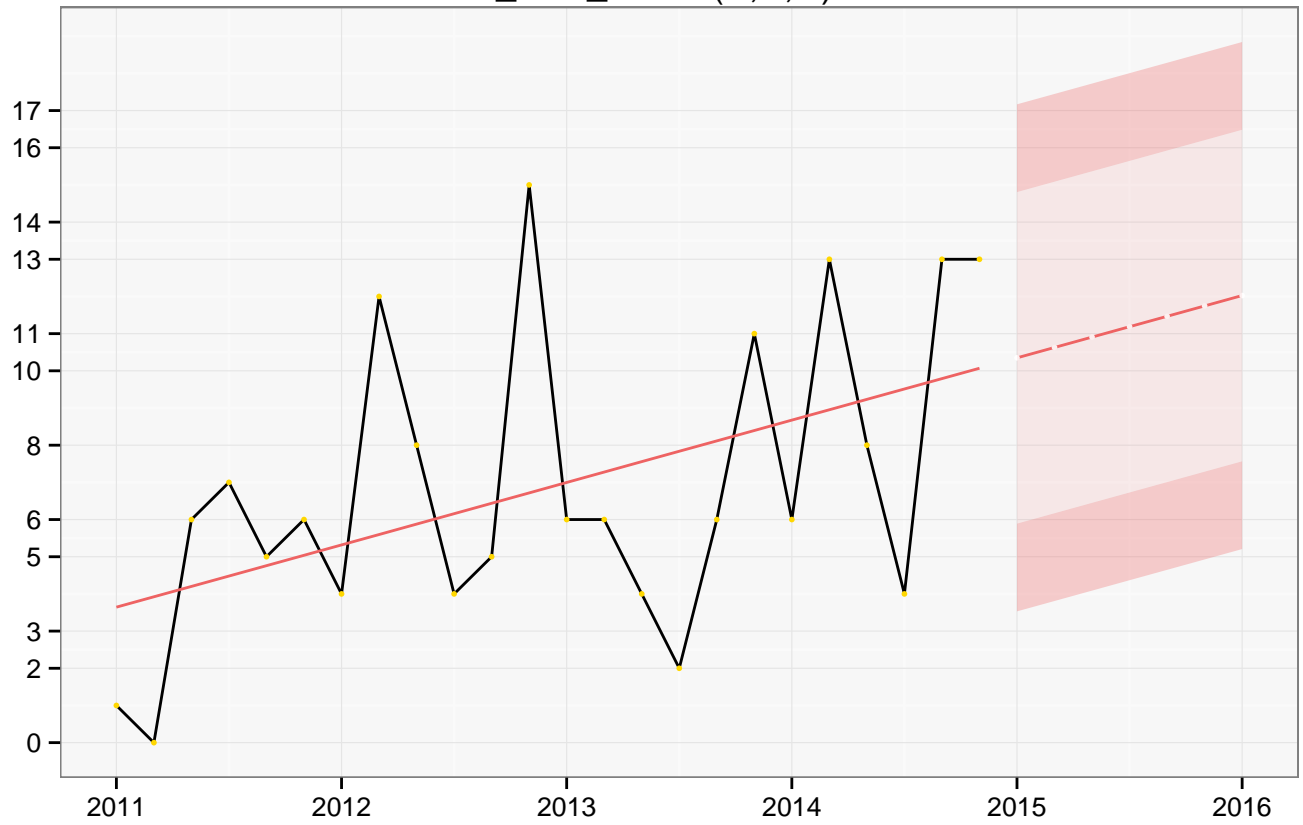


1.11 SSL216\_CAT\_2

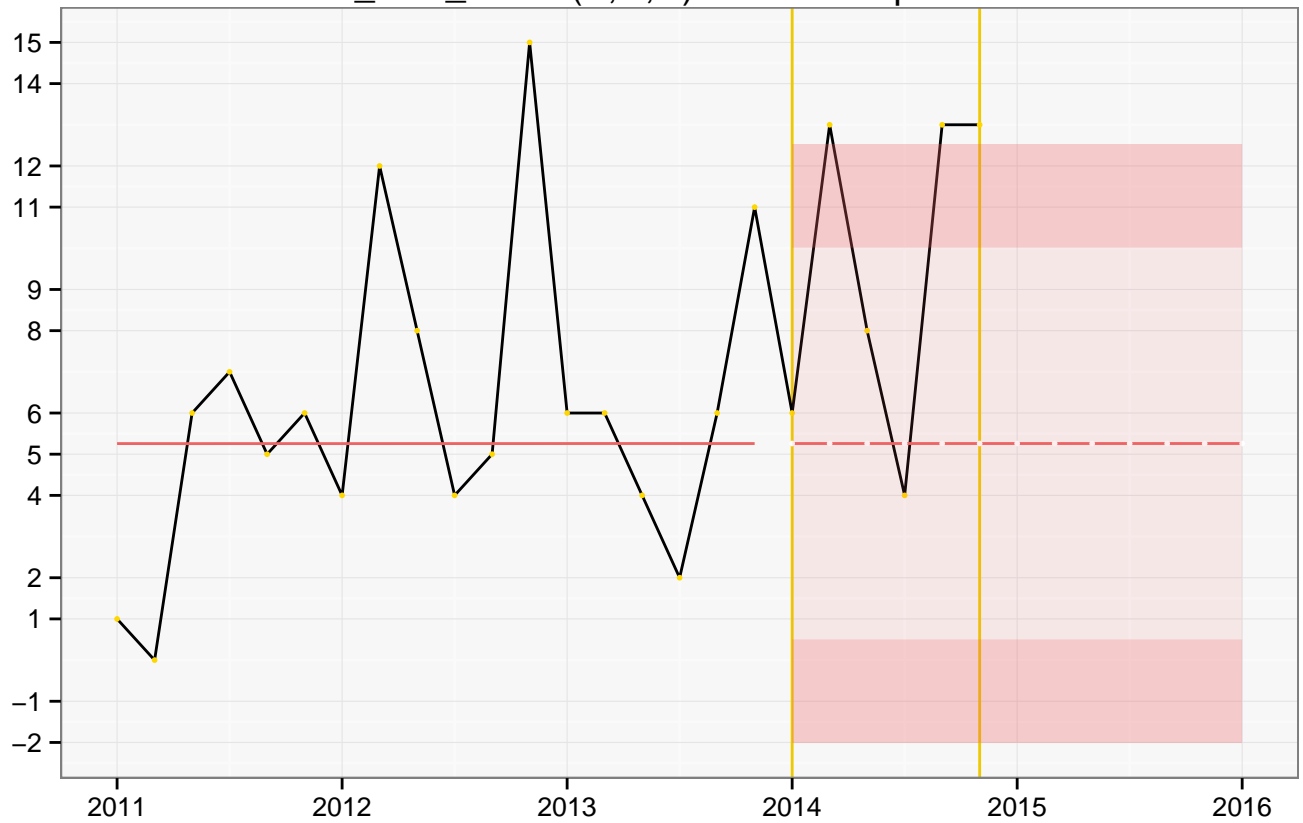
1.11.1 plots for SSL216\_CAT\_2



SSL216\_CAT\_2 ETS(A,A,N) First Obs

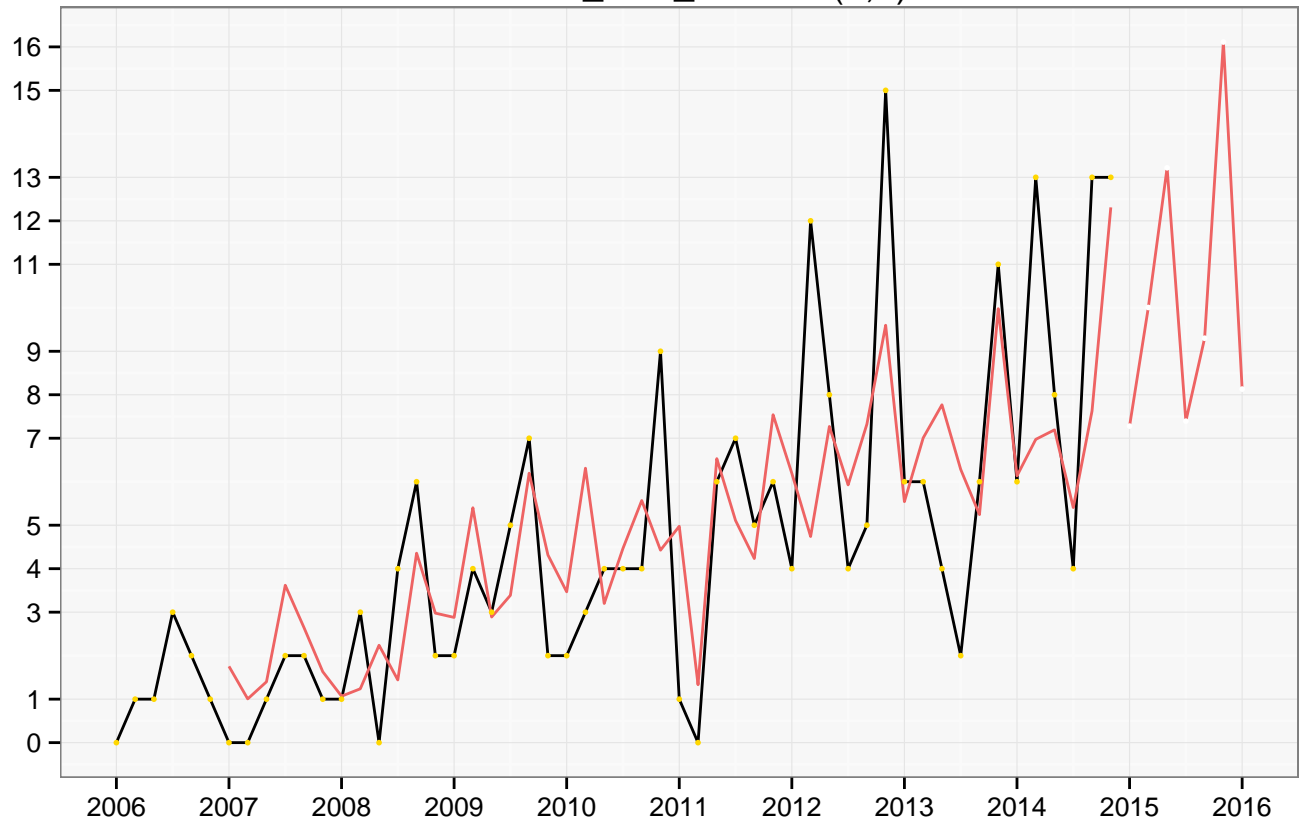


SSL216\_CAT\_2 ETS(A,N,N) Out of Sample – First Obs

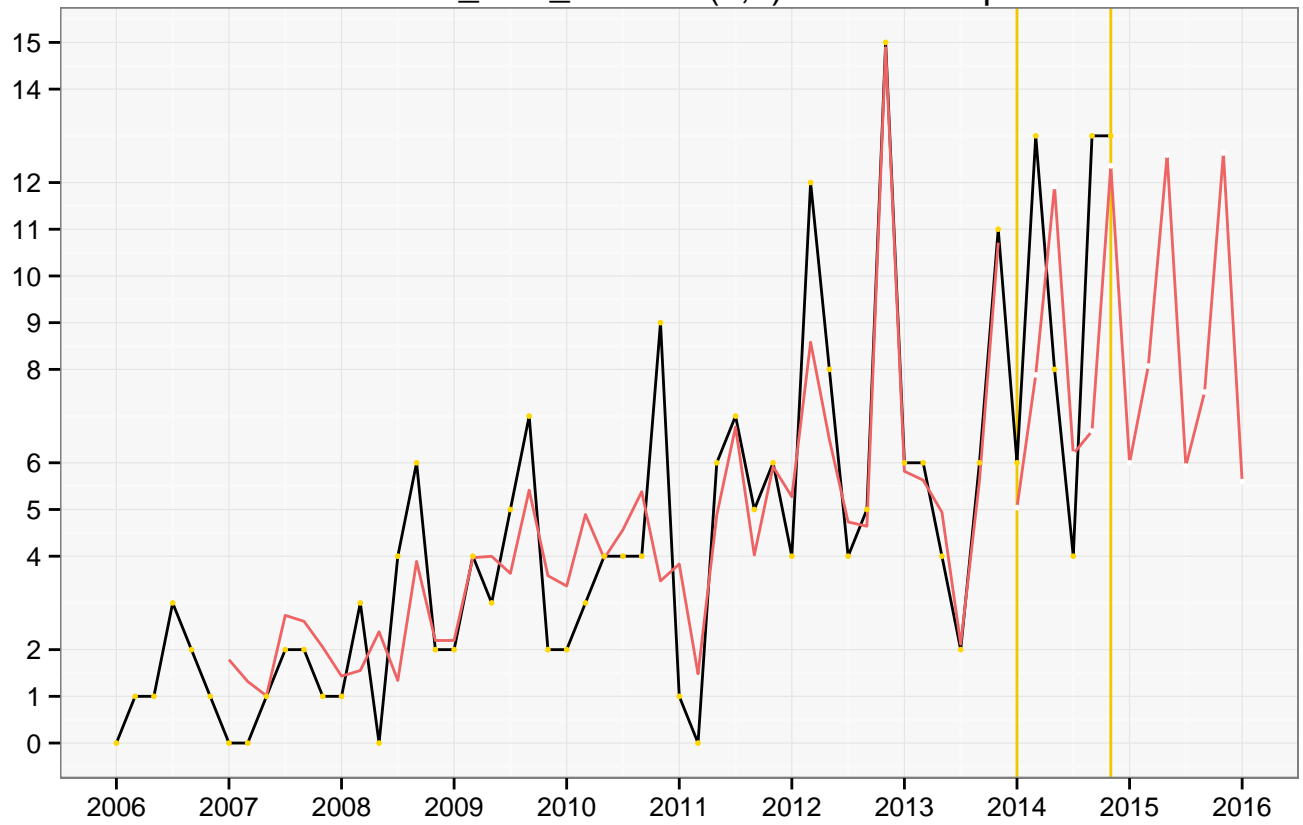




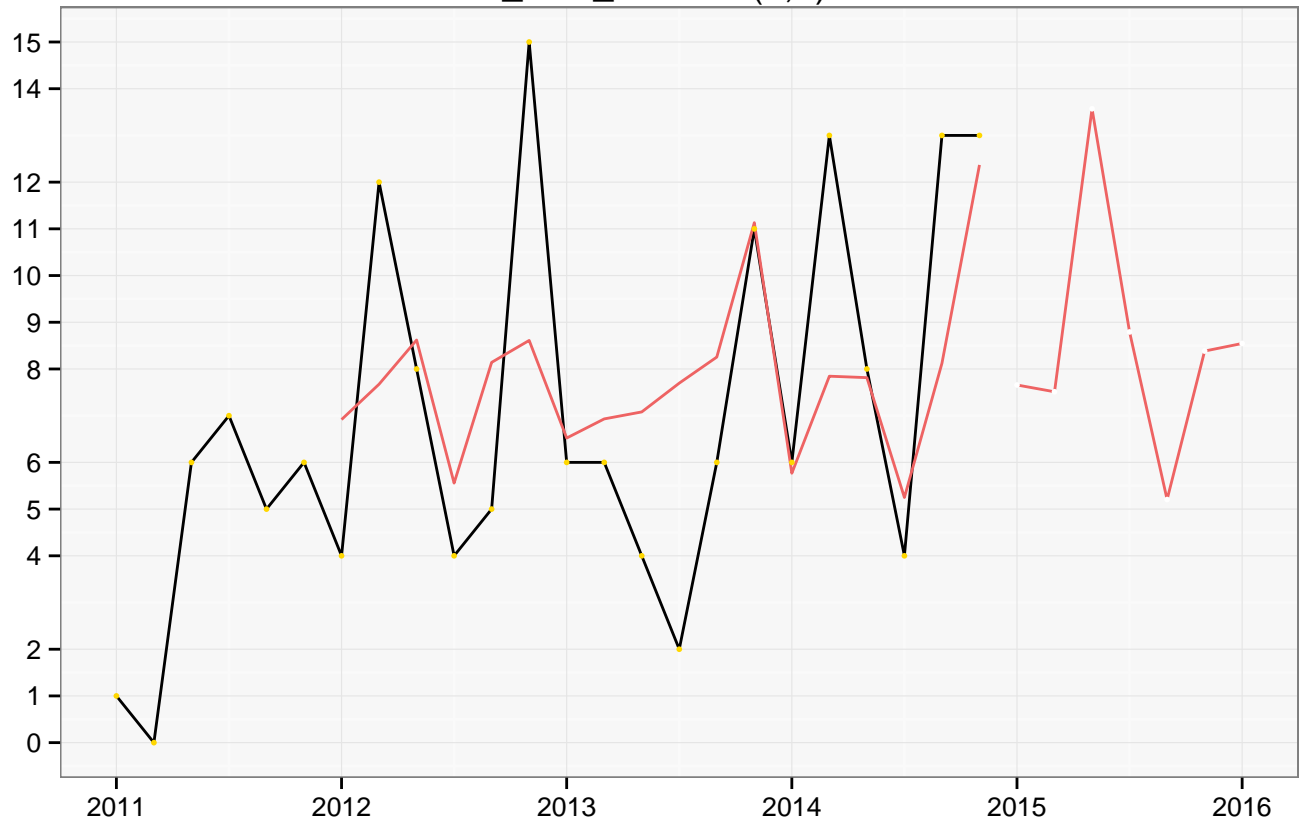
SSL216\_CAT\_2 NNAR(3,1)



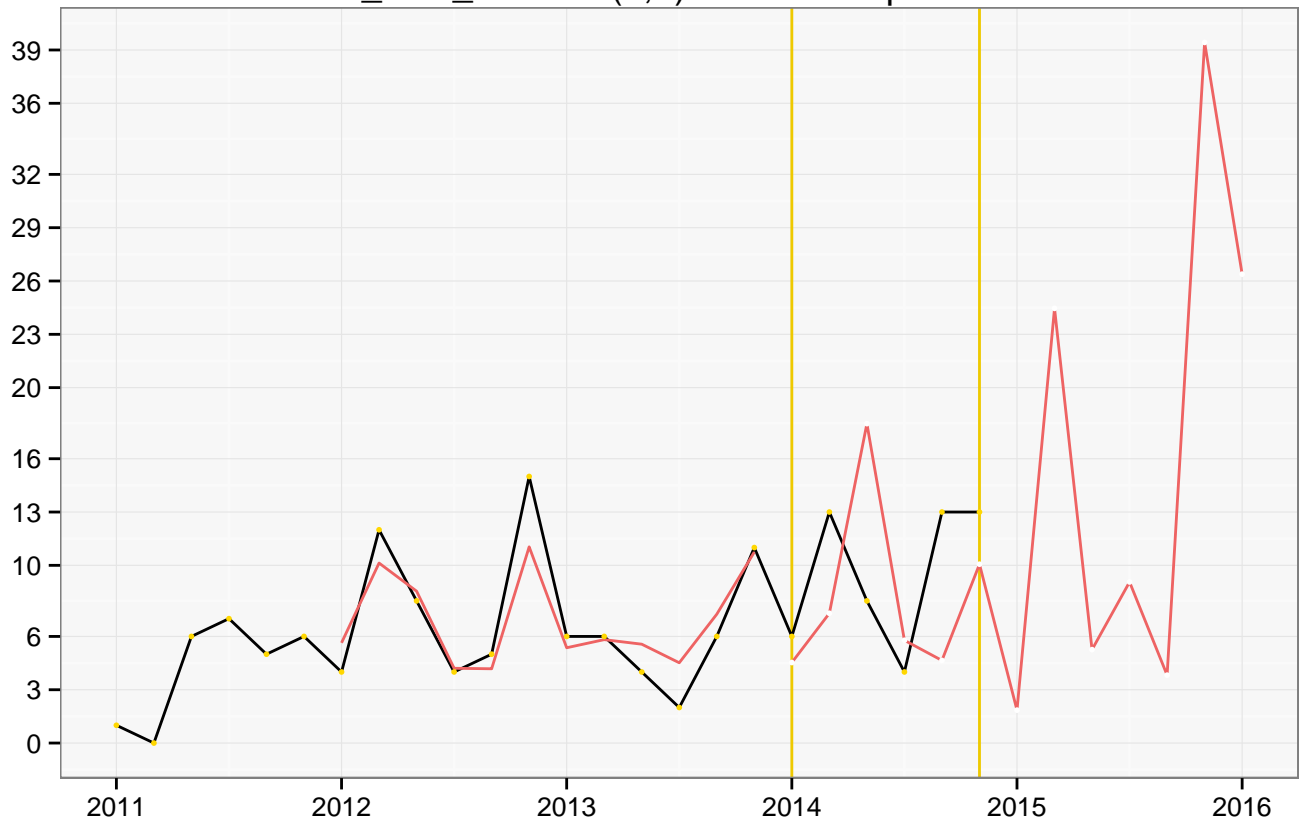
SSL216\_CAT\_2 NNAR(4,1) Out of Sample



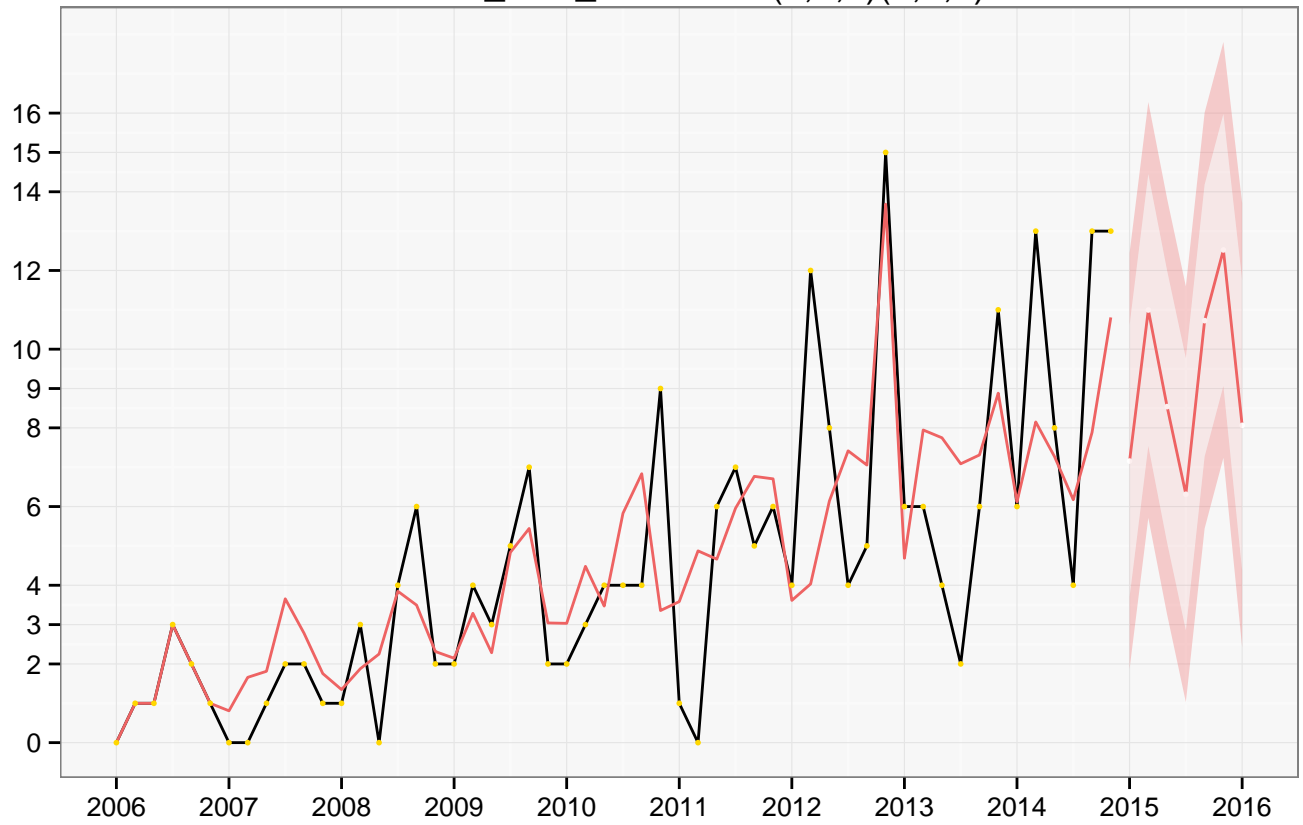
SSL216\_CAT\_2 NNAR(3,1) First Obs



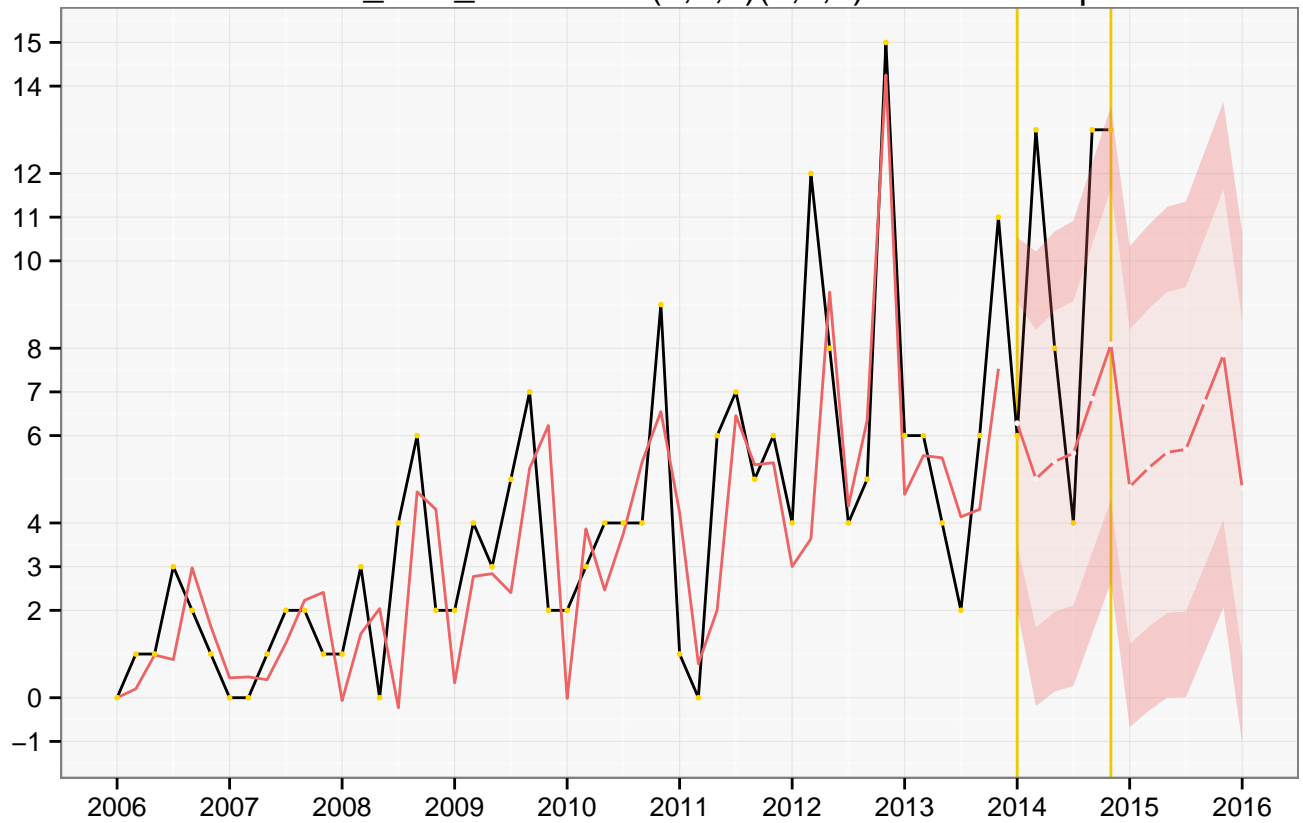
SSL216\_CAT\_2 NNAR(3,1) Out of Sample – First Obs



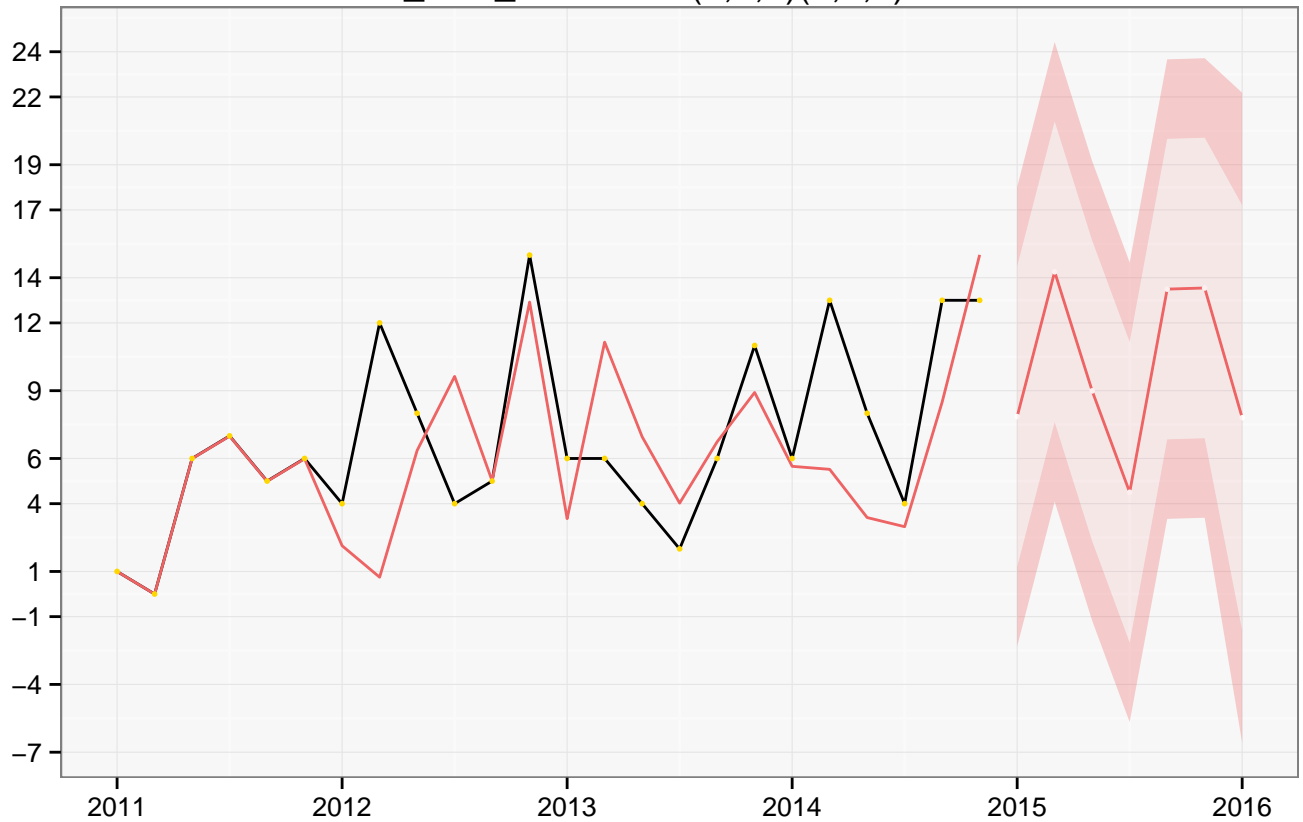
SSL216\_CAT\_2 ARIMAX(0,0,0)(0,1,1)6



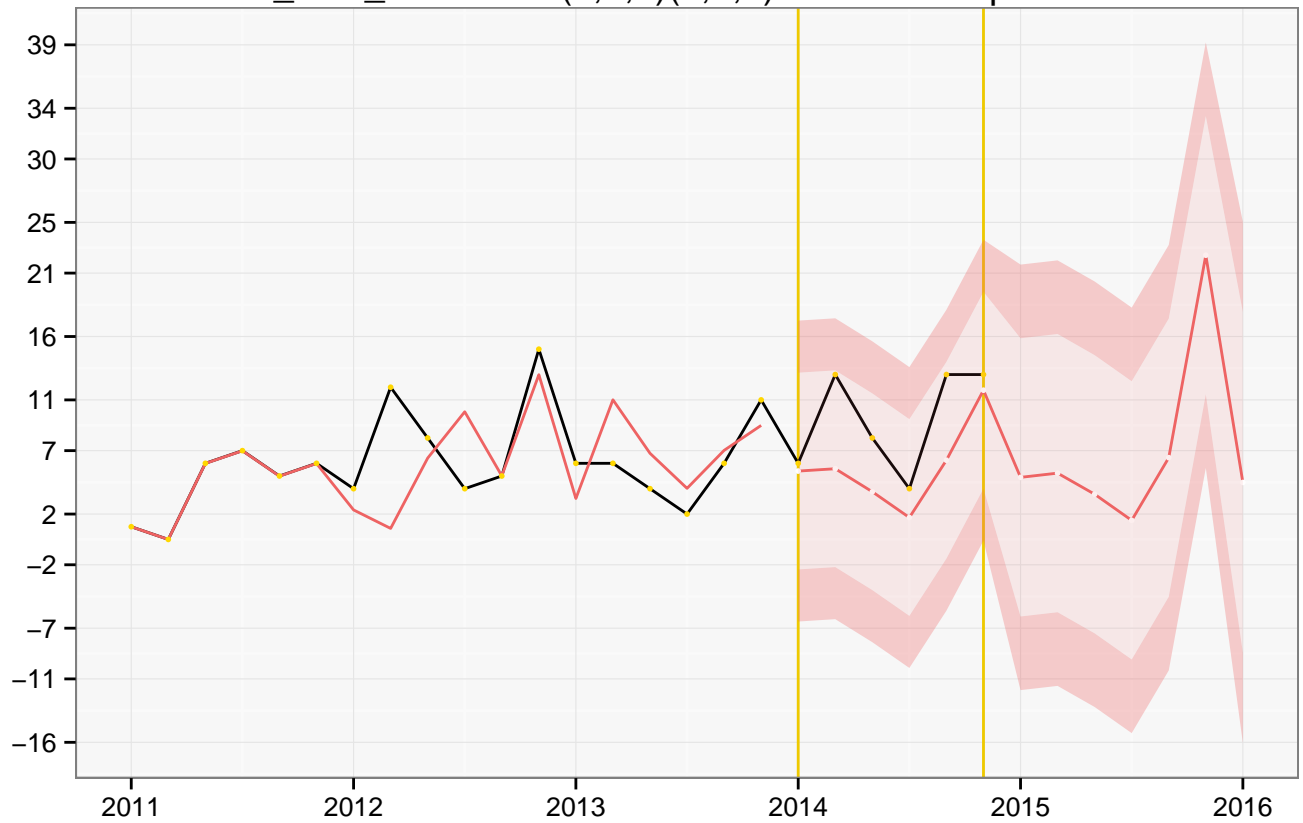
SSL216\_CAT\_2 ARIMAX(0,1,2)(0,0,0)6 Out of sample



SSL216\_CAT\_2 ARIMAX(0,0,0)(0,1,0)6 First Obs

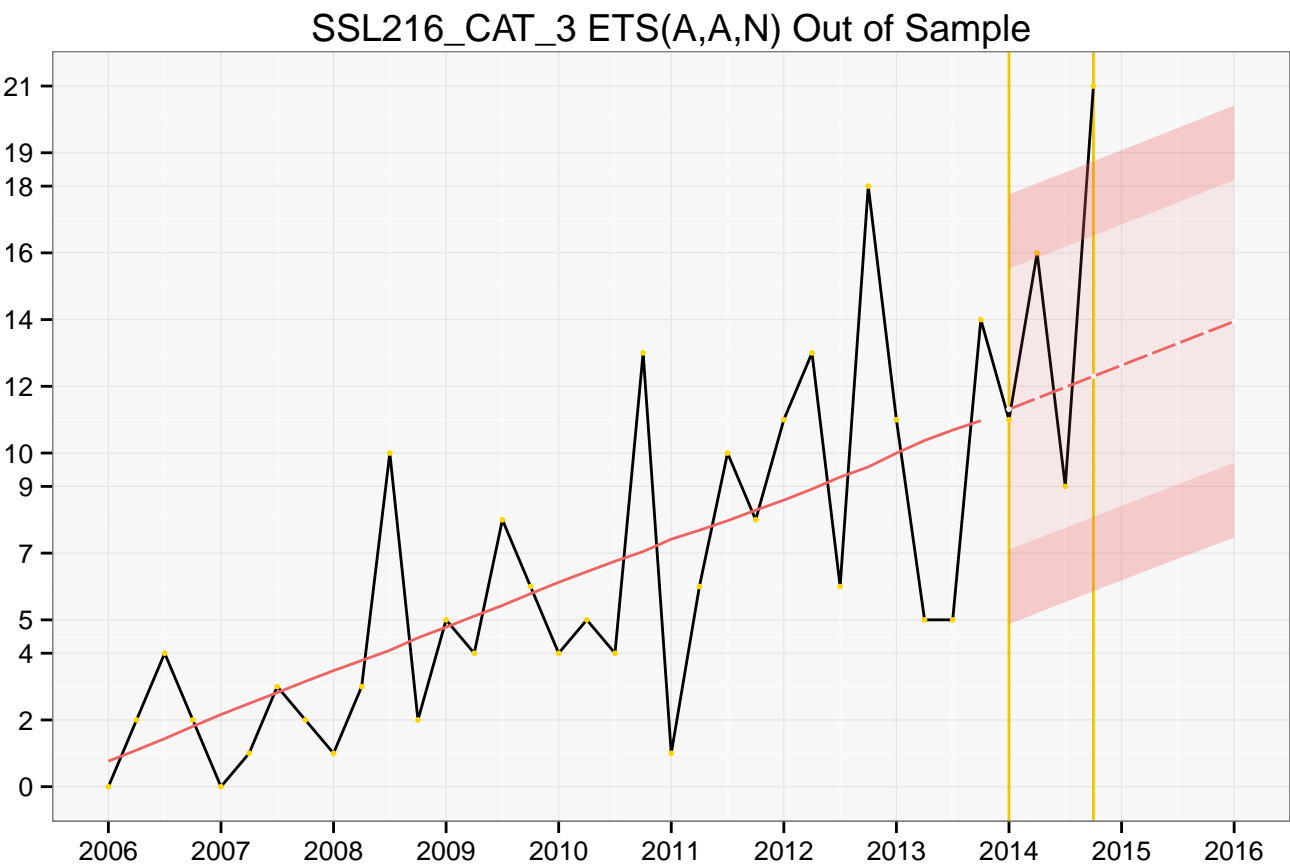
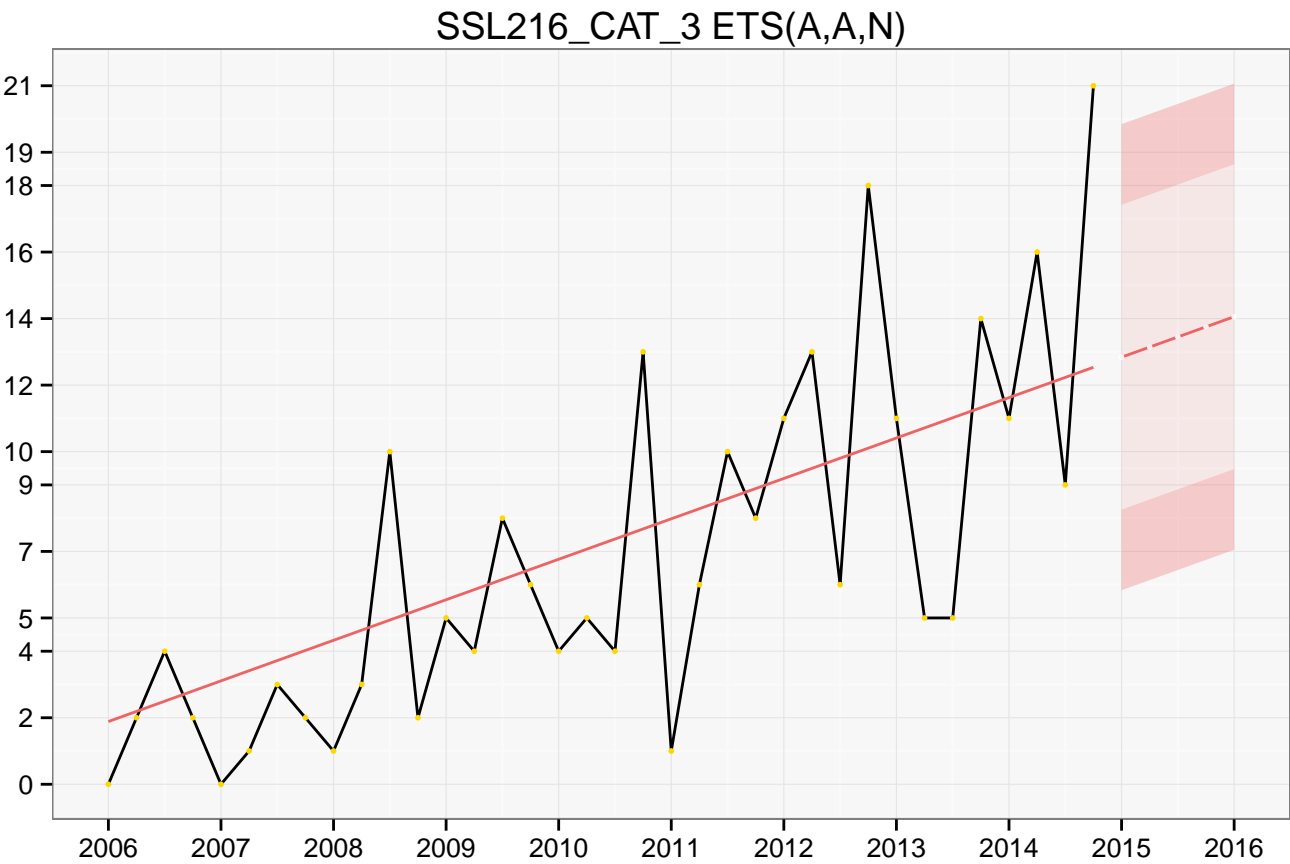


SSL216\_CAT\_2 ARIMAX(0,0,0)(0,1,0)6 Out of sample – First Obs

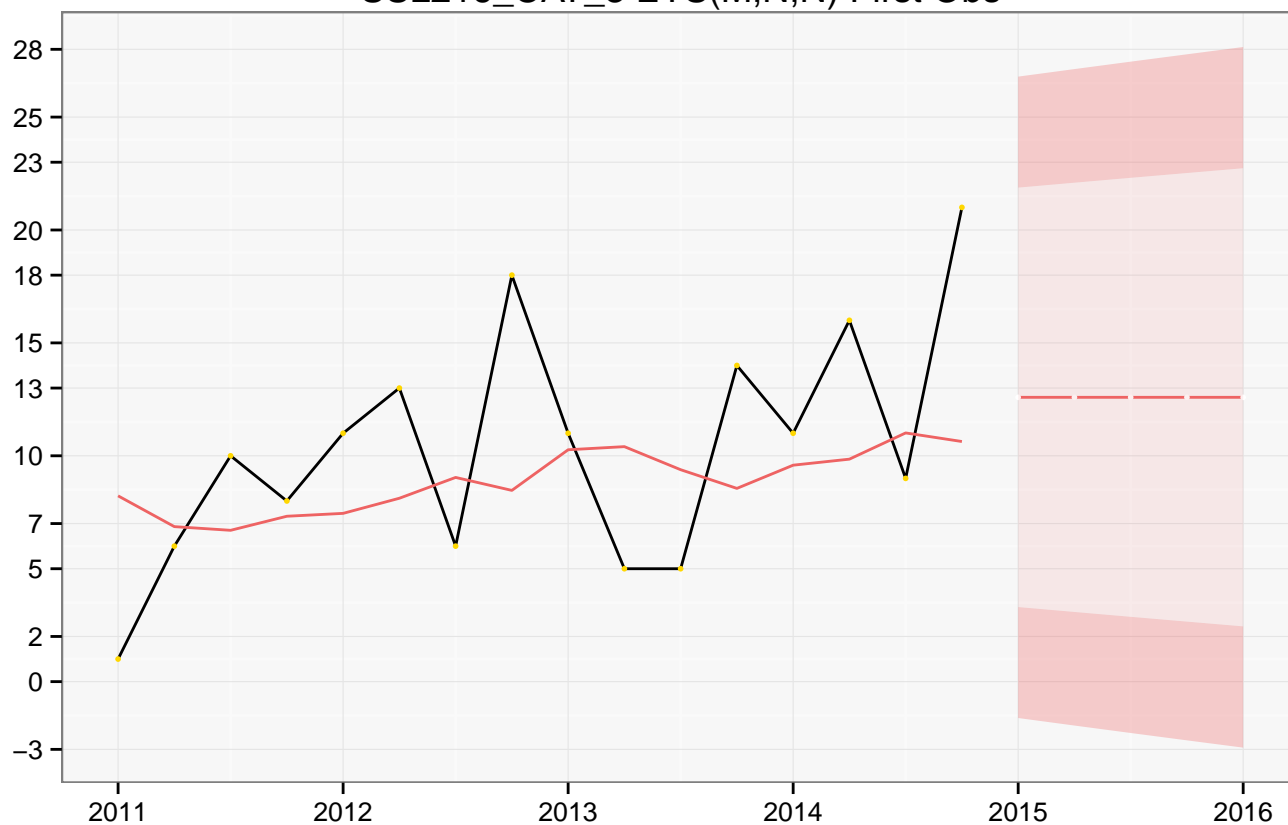


1.12 SSL216\_CAT\_3

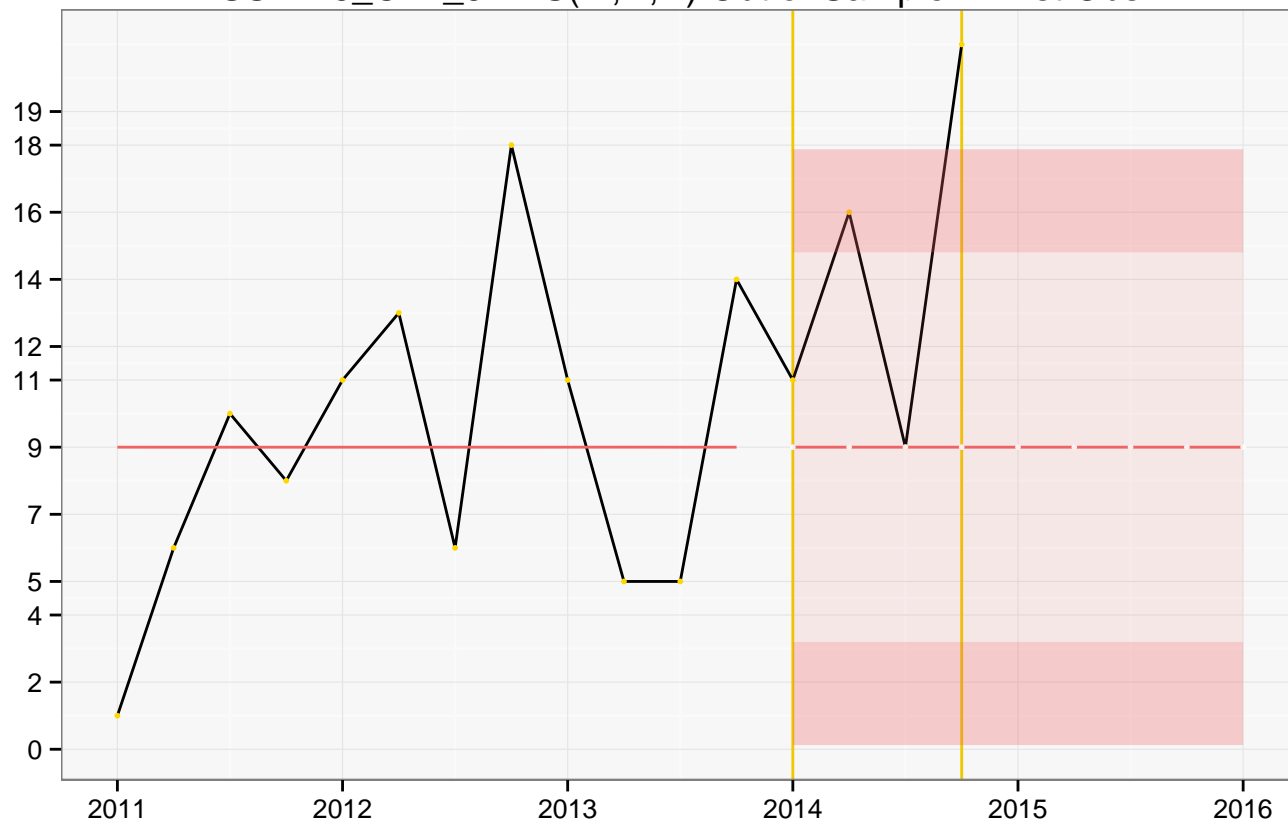
1.12.1 plots for SSL216\_CAT\_3



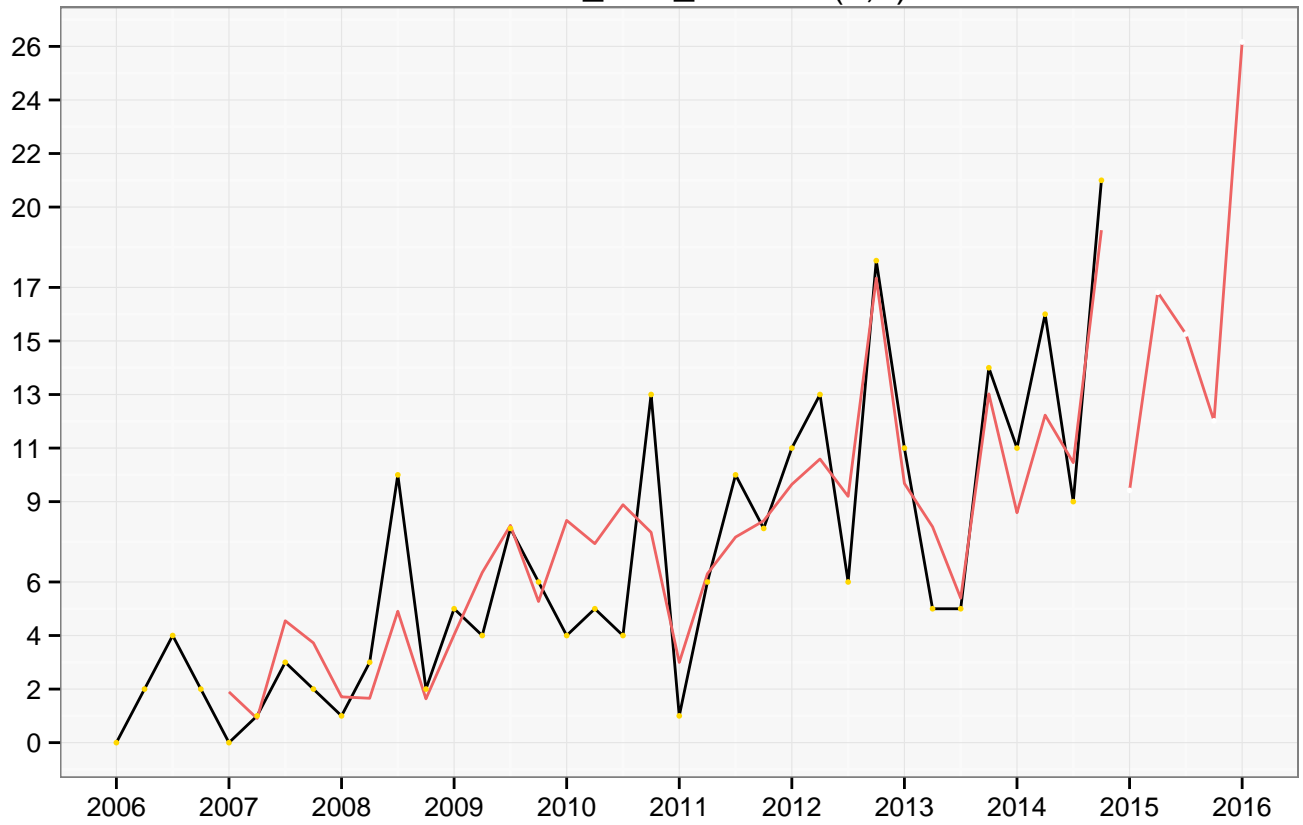
SSL216\_CAT\_3 ETS(M,N,N) First Obs



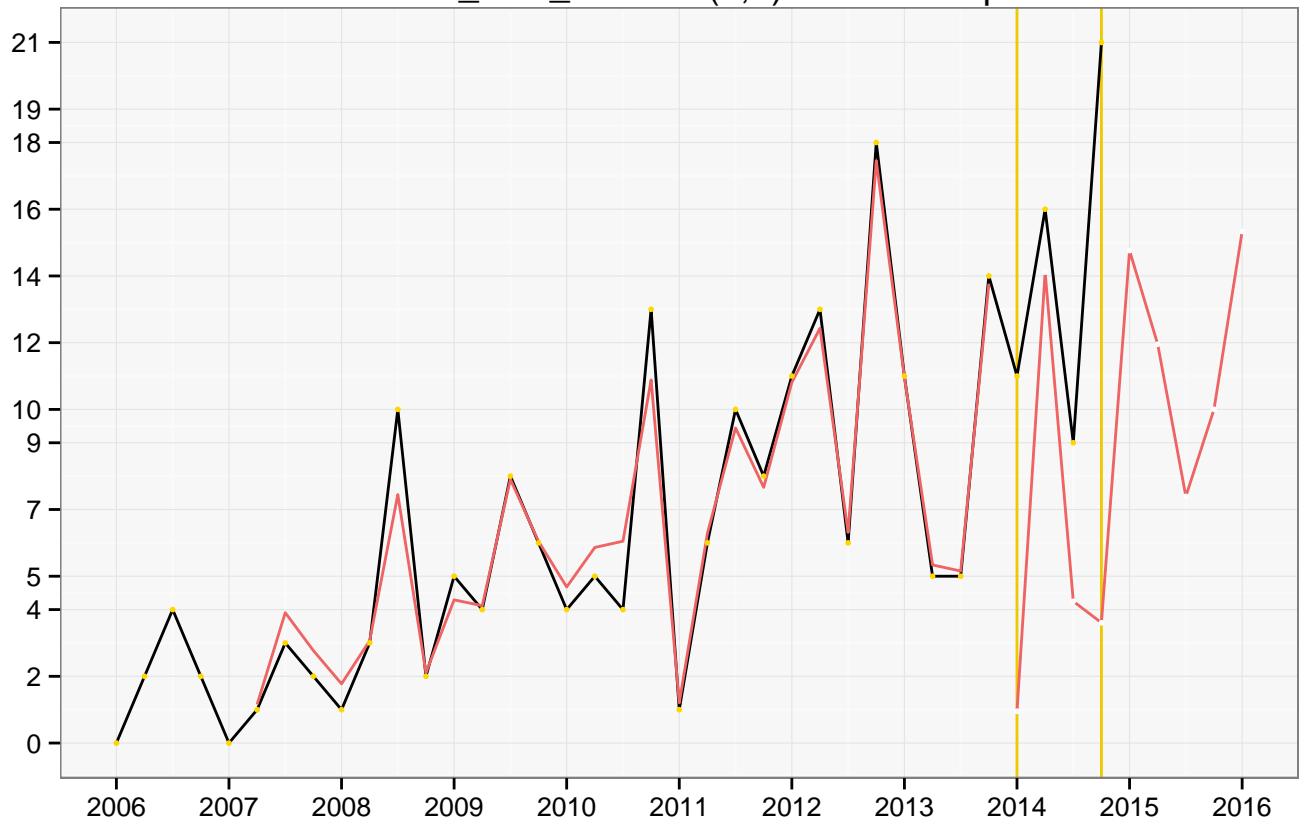
SSL216\_CAT\_3 ETS(M,N,N) Out of Sample – First Obs



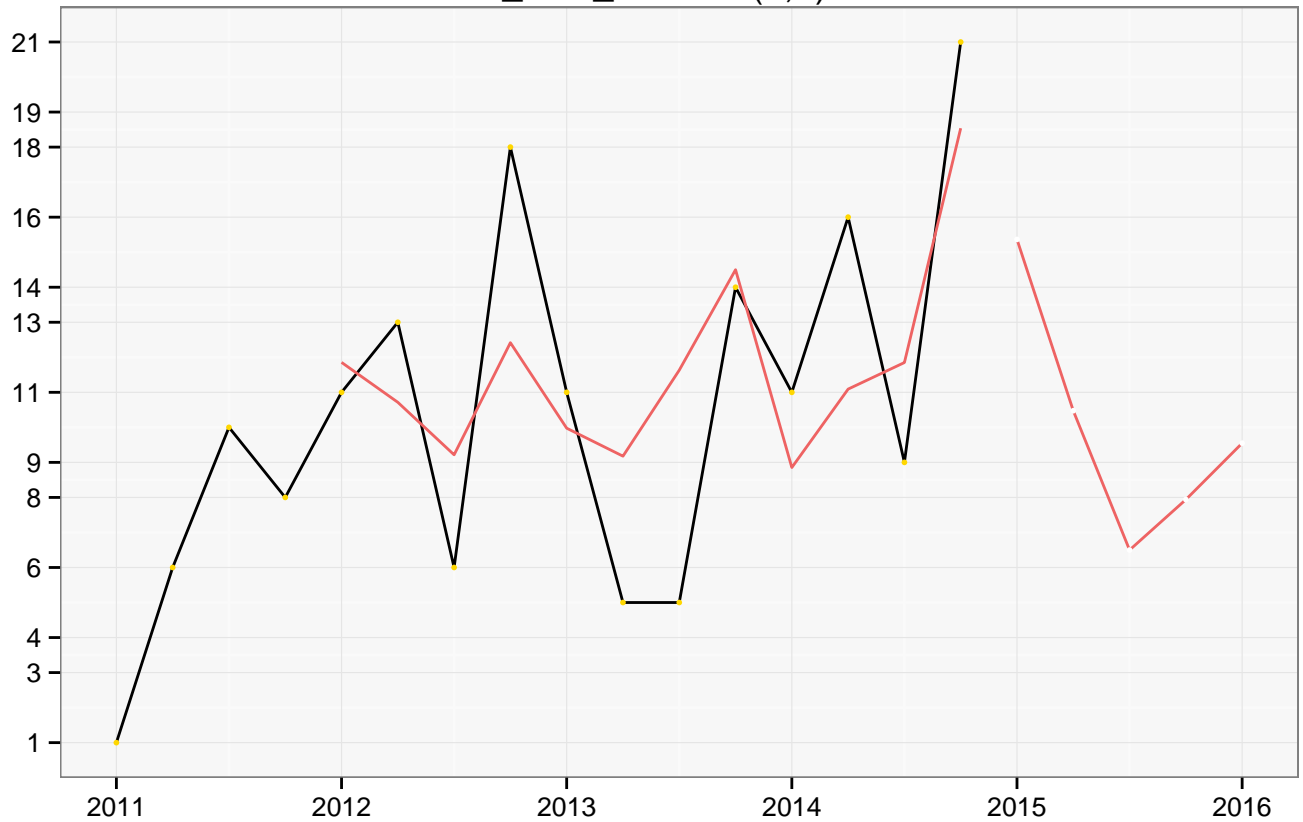
SSL216\_CAT\_3 NNAR(4,1)



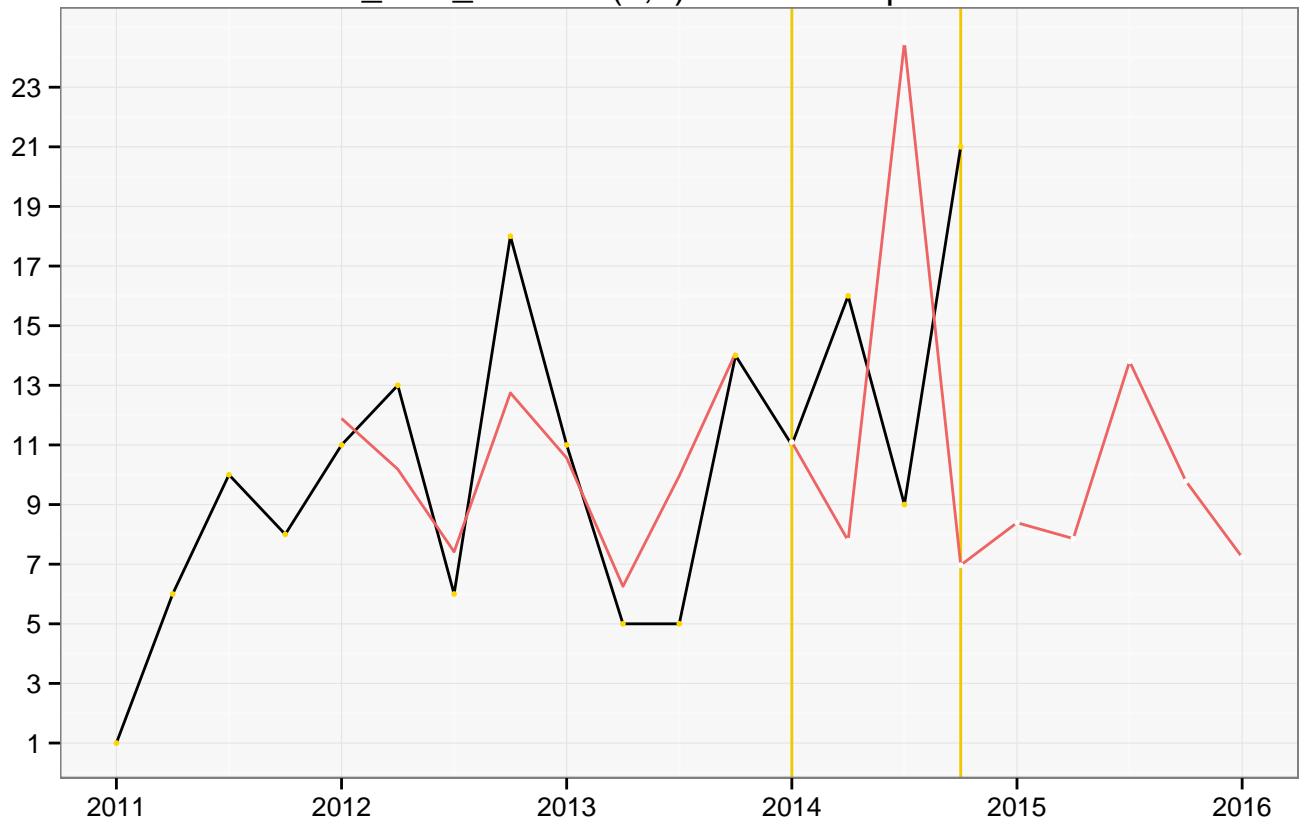
SSL216\_CAT\_3 NNAR(5,1) Out of Sample



SSL216\_CAT\_3 NNAR(1,1) First Obs

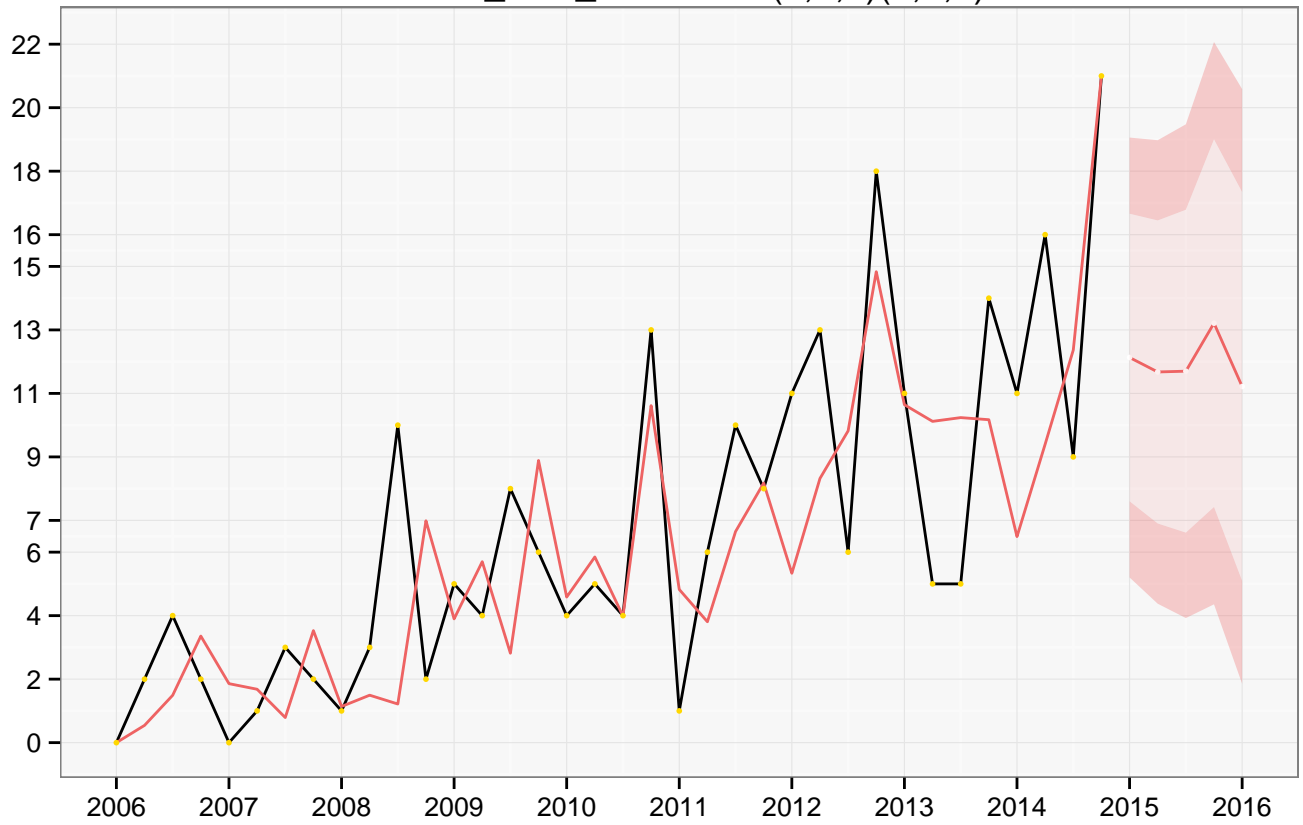


SSL216\_CAT\_3 NNAR(1,1) Out of Sample – First Obs

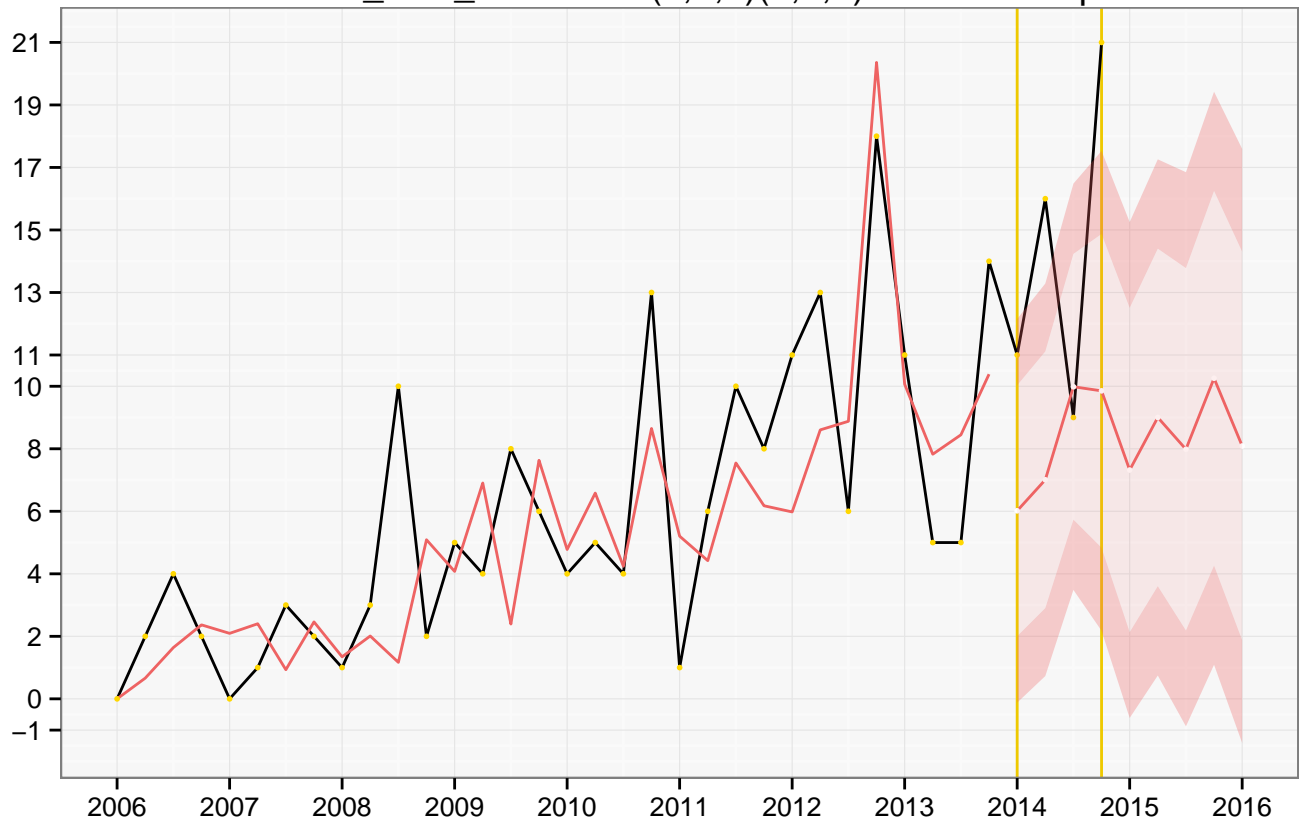




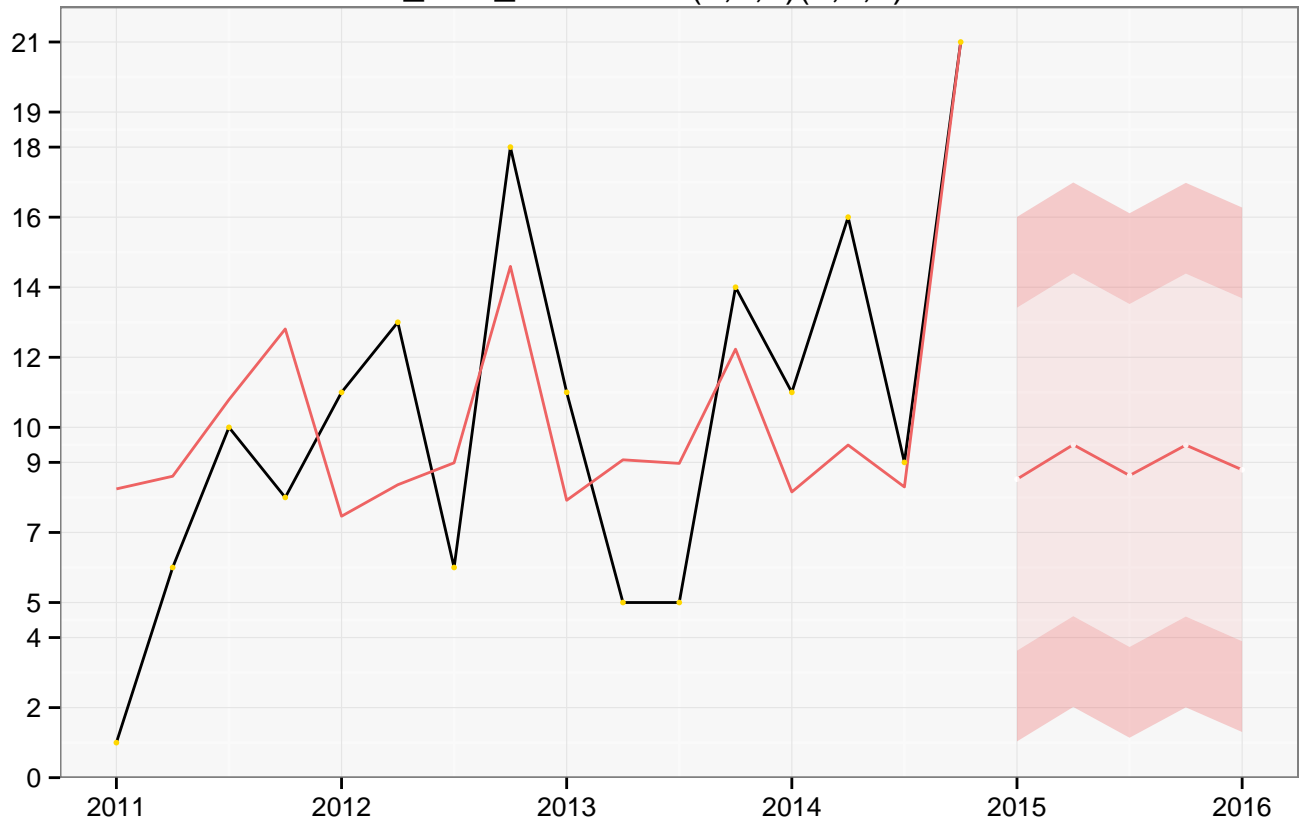
SSL216\_CAT\_3 ARIMAX(2,1,0)(0,0,0)4



SSL216\_CAT\_3 ARIMAX(2,1,0)(0,0,0)4 Out of sample



SSL216\_CAT\_3 ARIMAX(0,0,0)(0,0,0)4 First Obs



SSL216\_CAT\_3 ARIMAX(0,0,0)(0,0,0)4 Out of sample – First Obs

