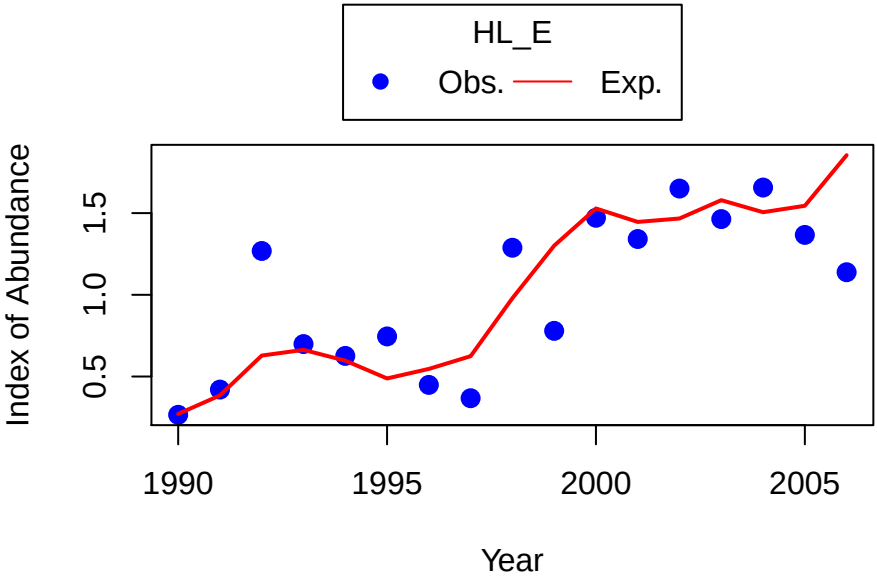
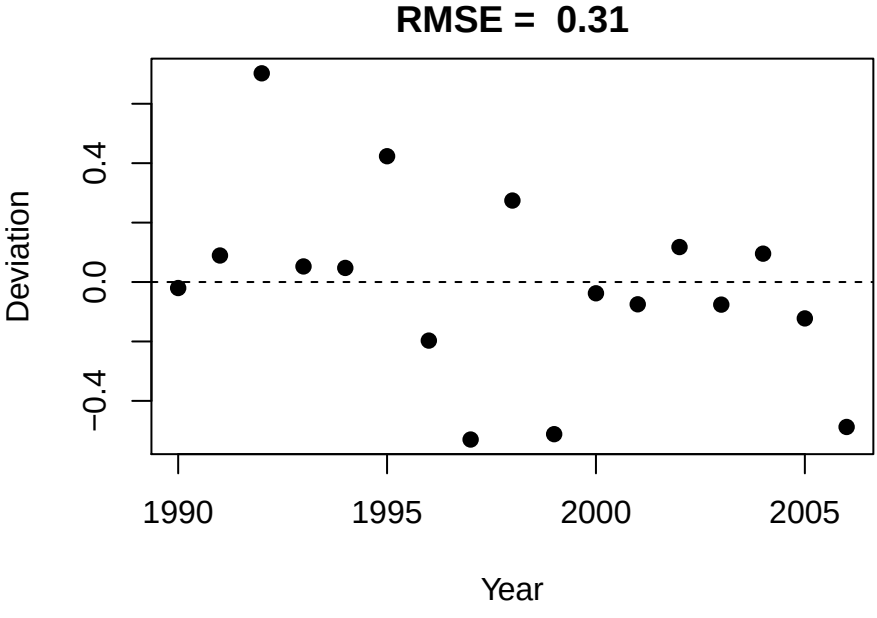
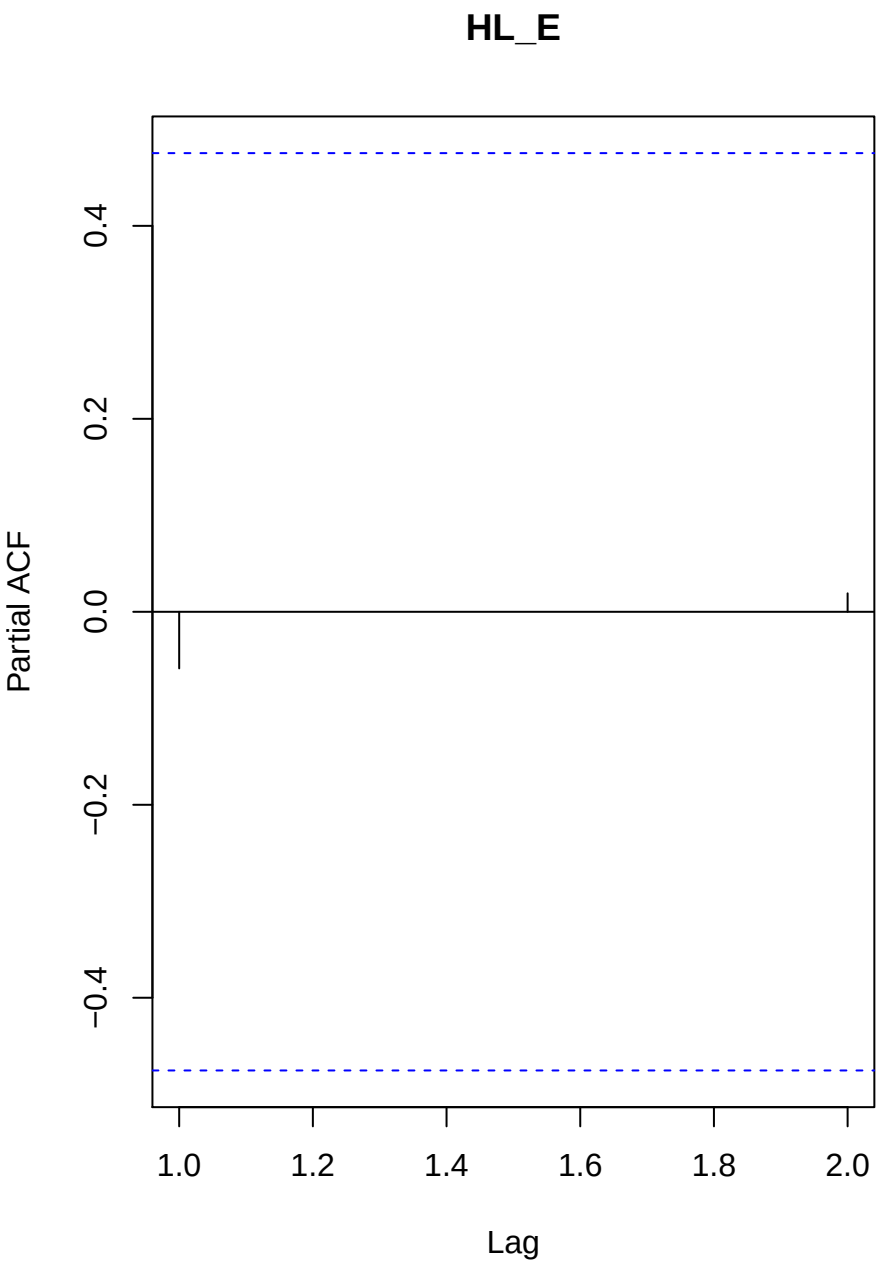
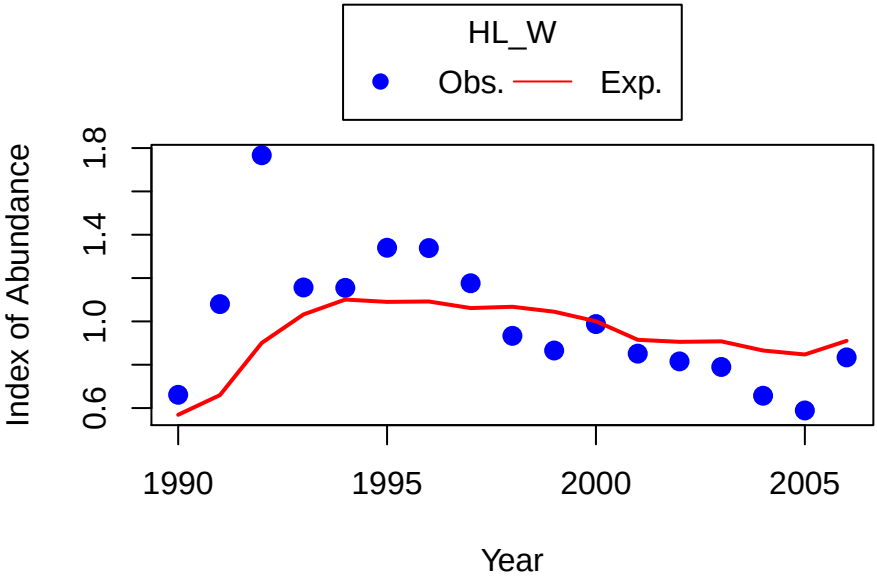
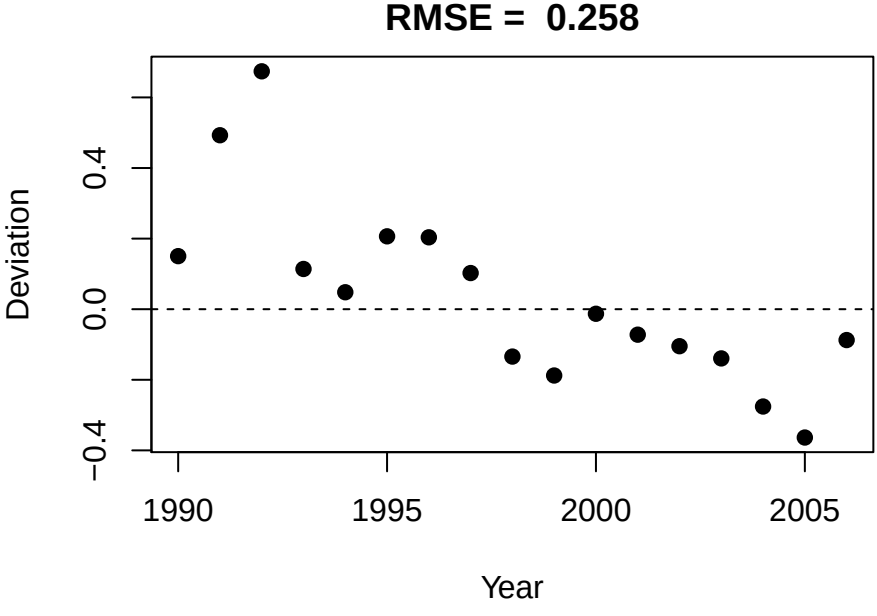
Red Snapper SEDAR 52

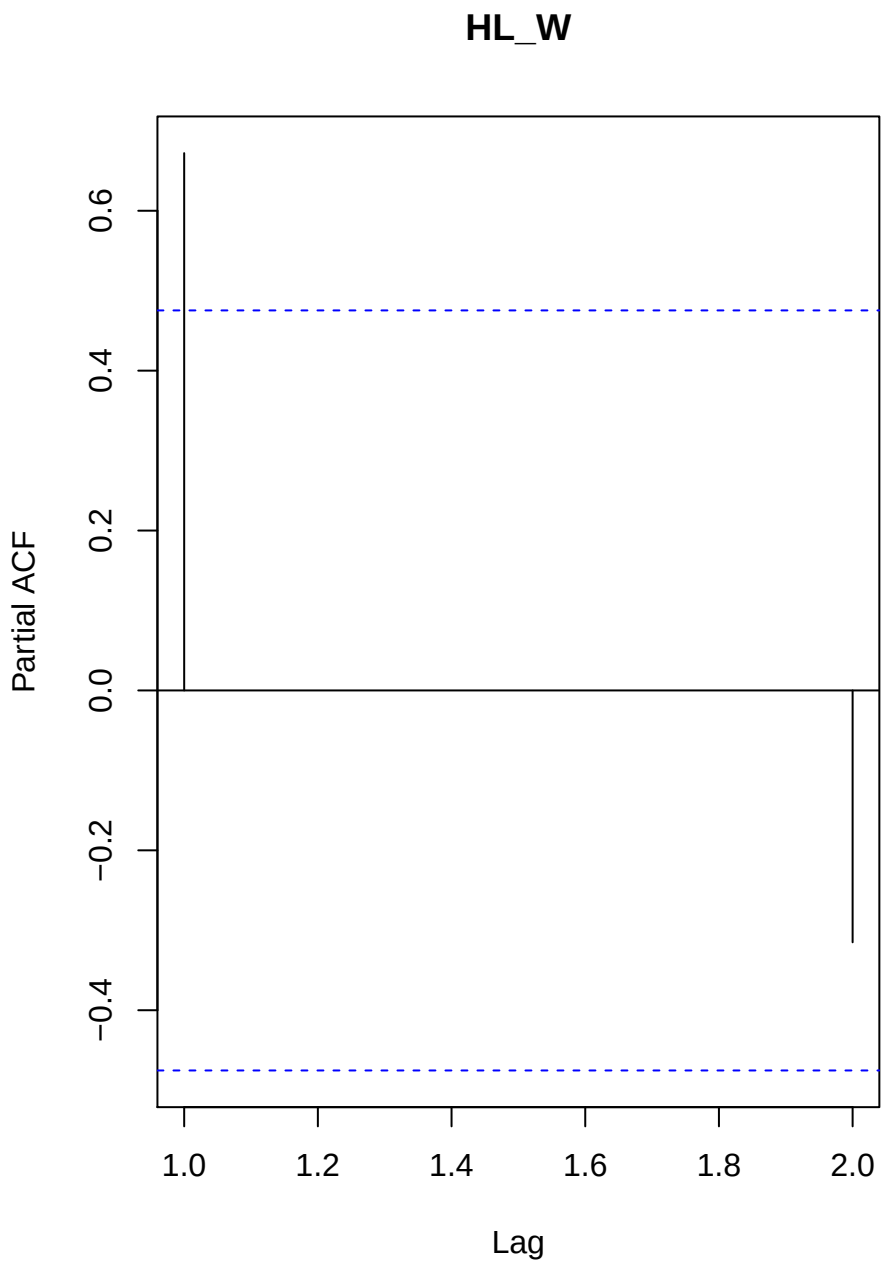

HL_E
Obs.
Exp.
Index of Abundance
0.5
1.0
1.5
1990
1995
2000
2005
Year

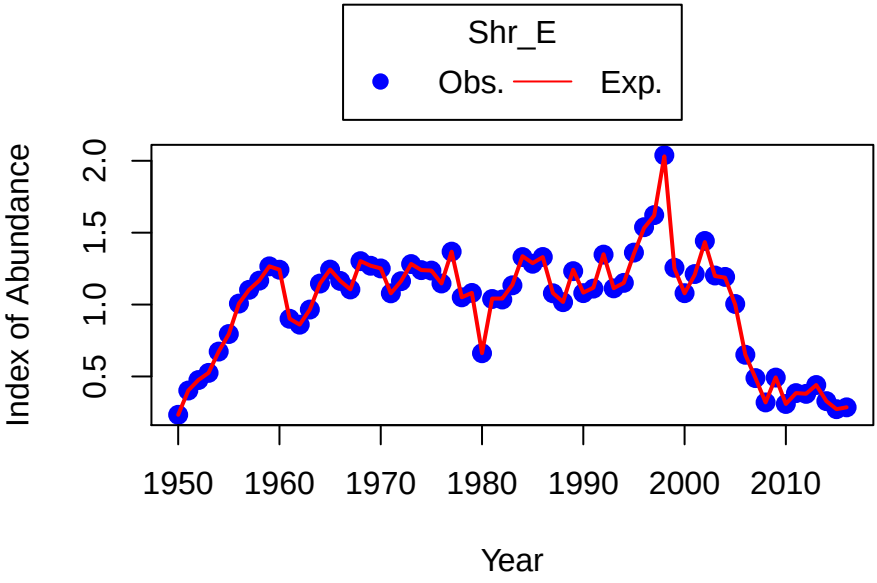

RMSE = 0.31
Deviation
−0.4
0.0
0.4
1990
1995
2000
2005
Year

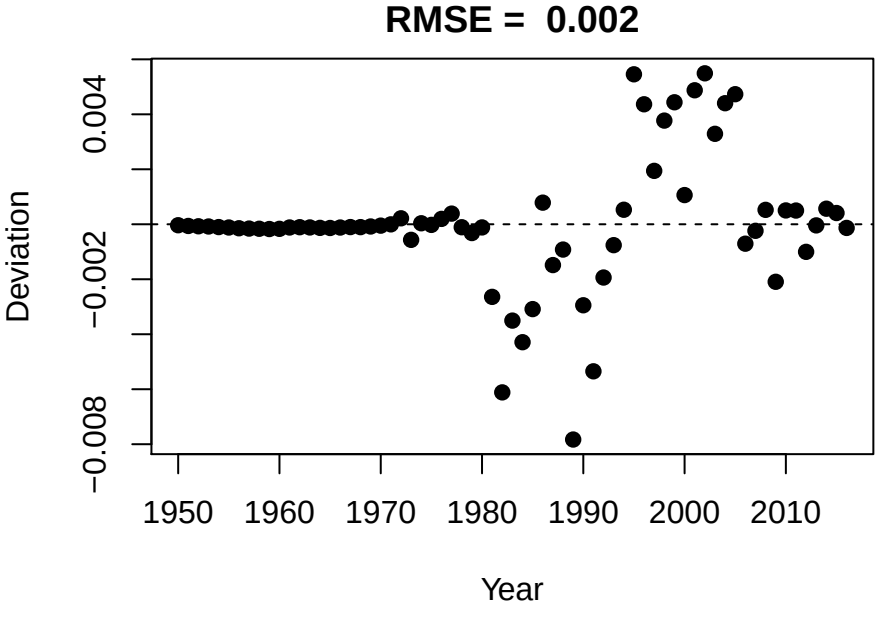

HL_E
Partial ACF
0.4
0.2
0.0
−0.2
−0.4
1.0
1.2
1.4
1.6
1.8
2.0
Lag

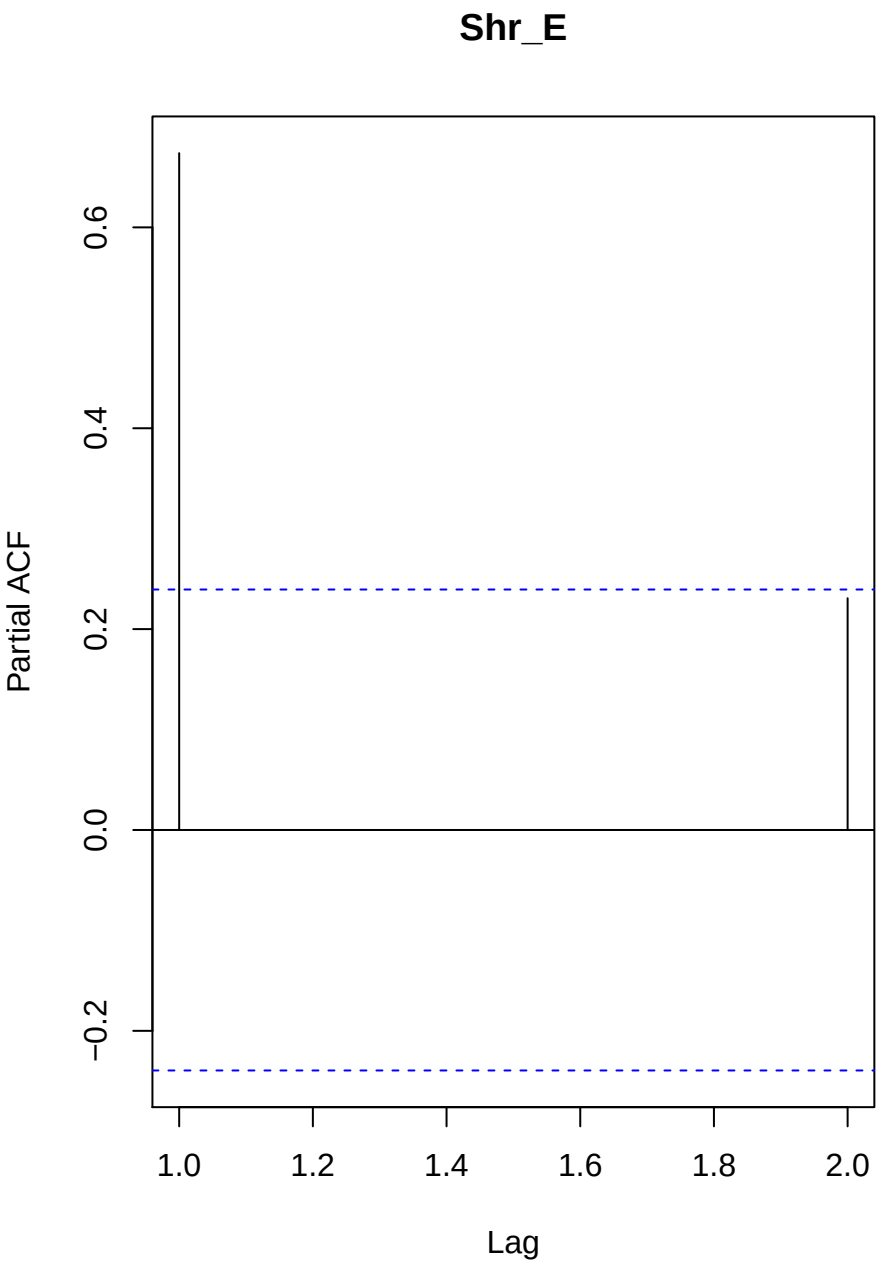

HL_W
Obs.
Exp.
Index of Abundance
0.6
1.0
1.4
1.8
1990
1995
2000
2005
Year

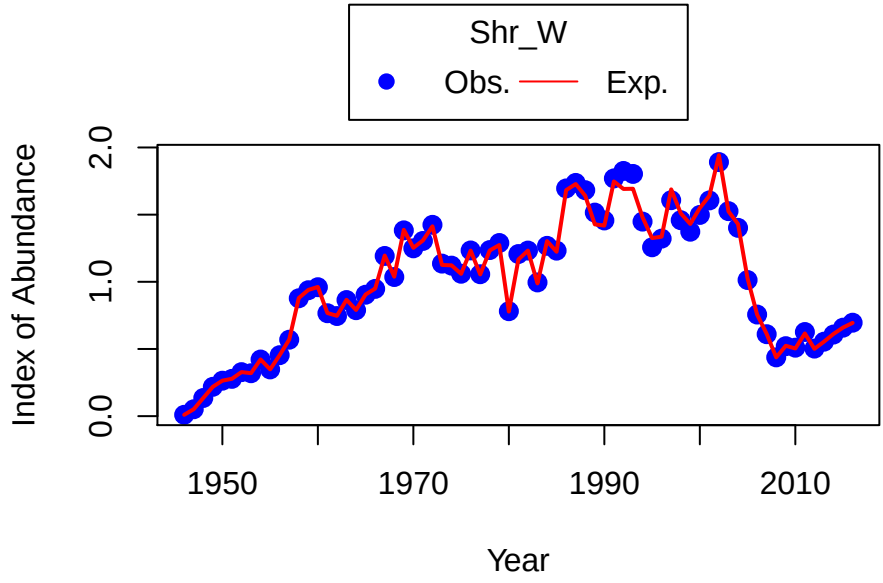

RMSE = 0.258
Deviation
−0.4
0.0
0.4
1990
1995
2000
2005
Year

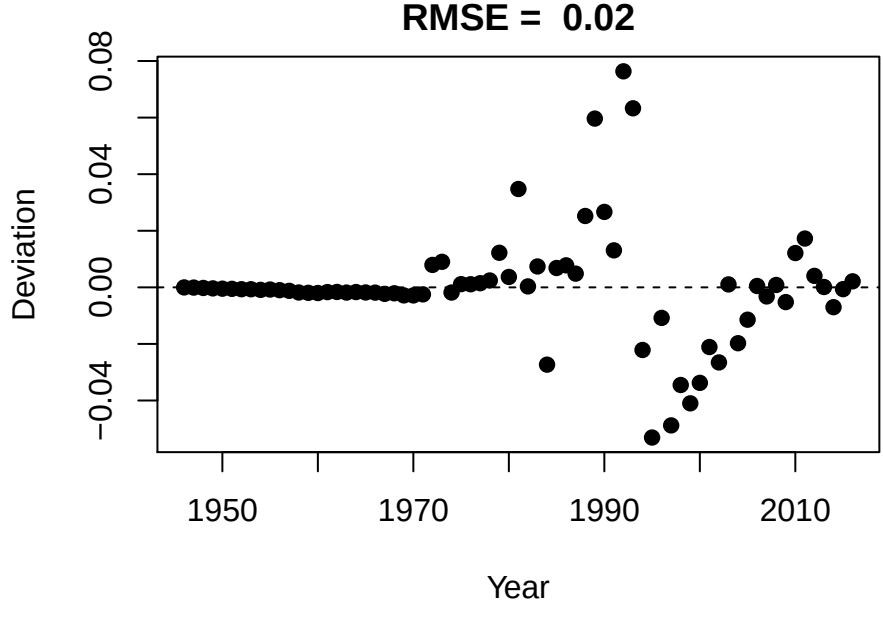

HL_W
Partial ACF
0.6
0.4
0.2
0.0
−0.2
−0.4
1.0
1.2
1.4
1.6
1.8
2.0
Lag

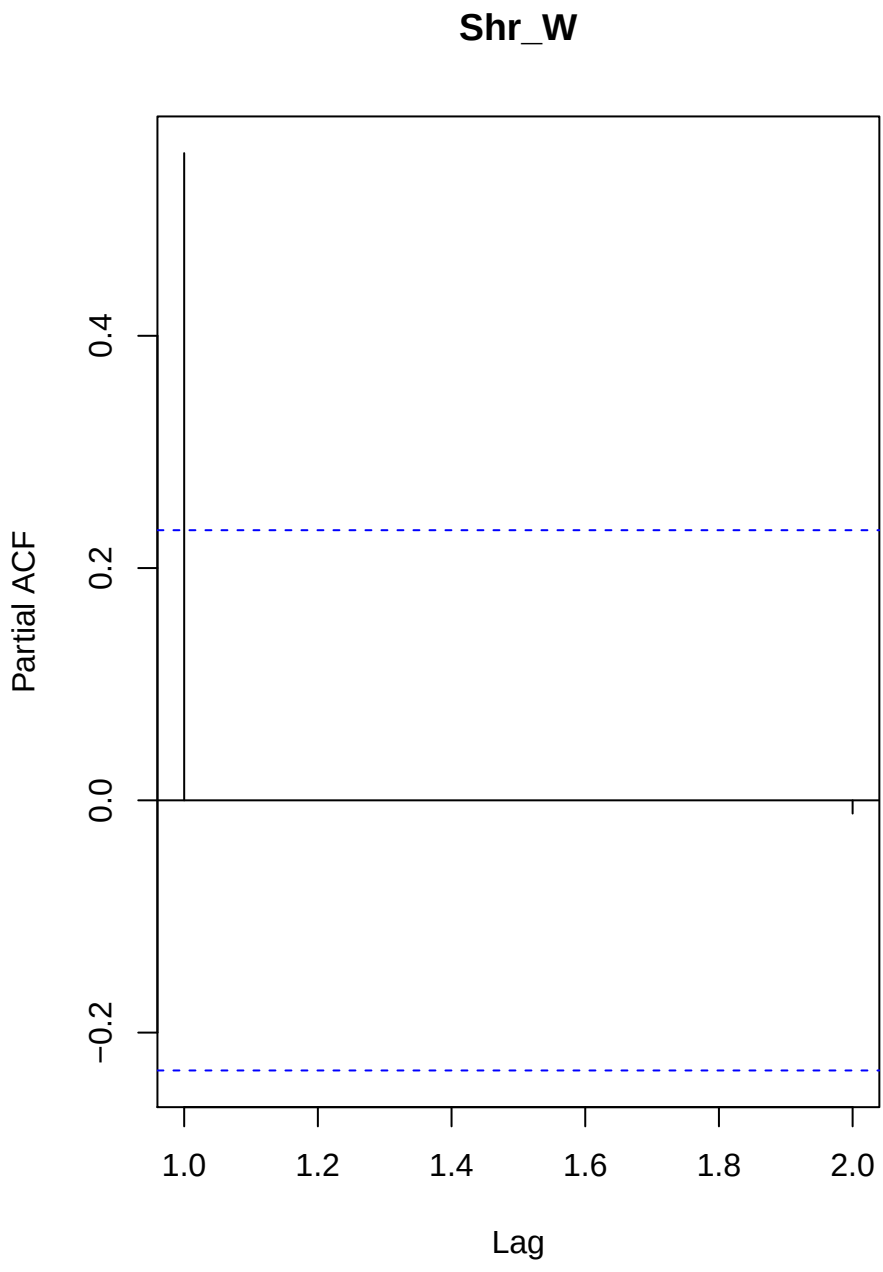

Shr_E
Obs.
Exp.
Index of Abundance
0.5
1.0
1.5
2.0
1950
1960
1970
1980
1990
2000
2010
Year

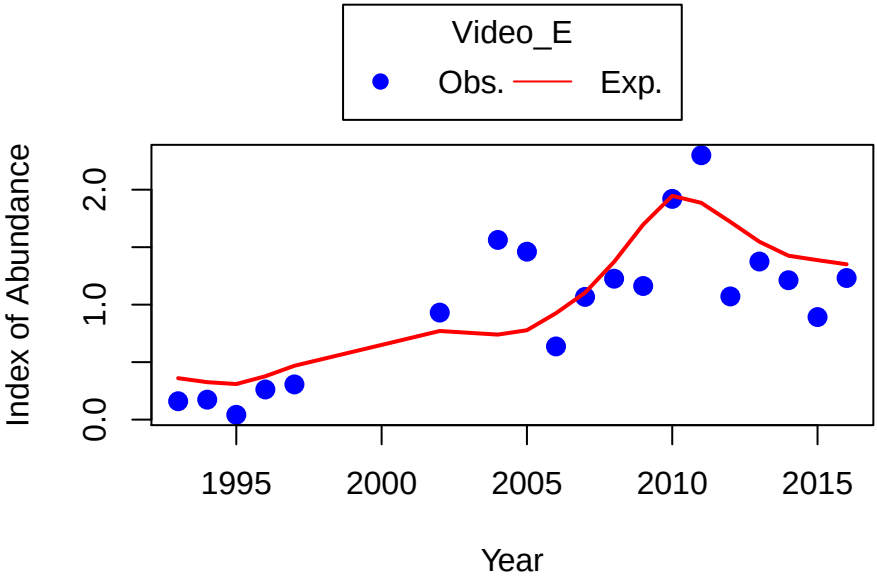

RMSE = 0.002
Deviation
0.004
−0.002
−0.008
1950
1960
1970
1980
1990
2000
2010
Year

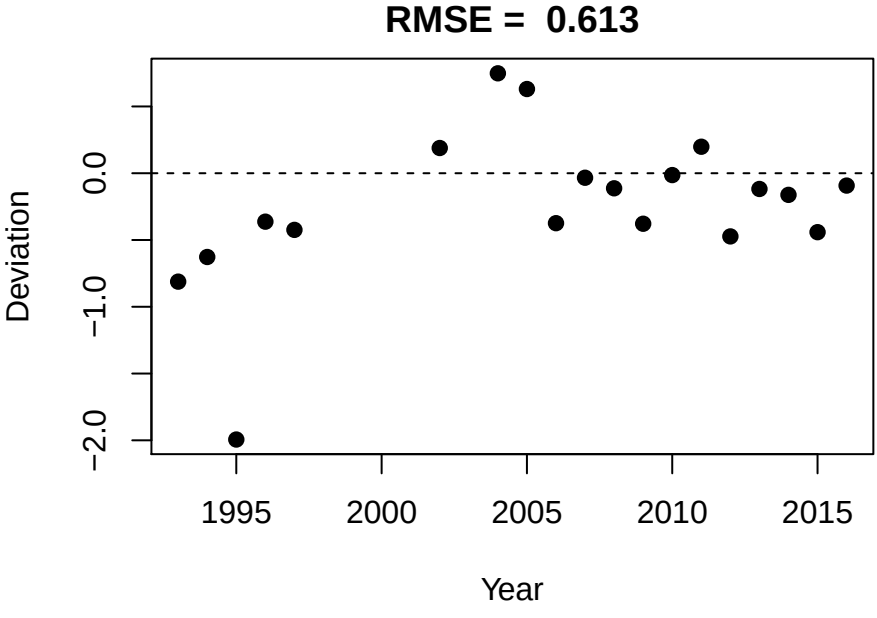

Shr_E
Partial ACF
0.6
0.4
0.2
0.0
−0.2
1.0
1.2
1.4
1.6
1.8
2.0
Lag

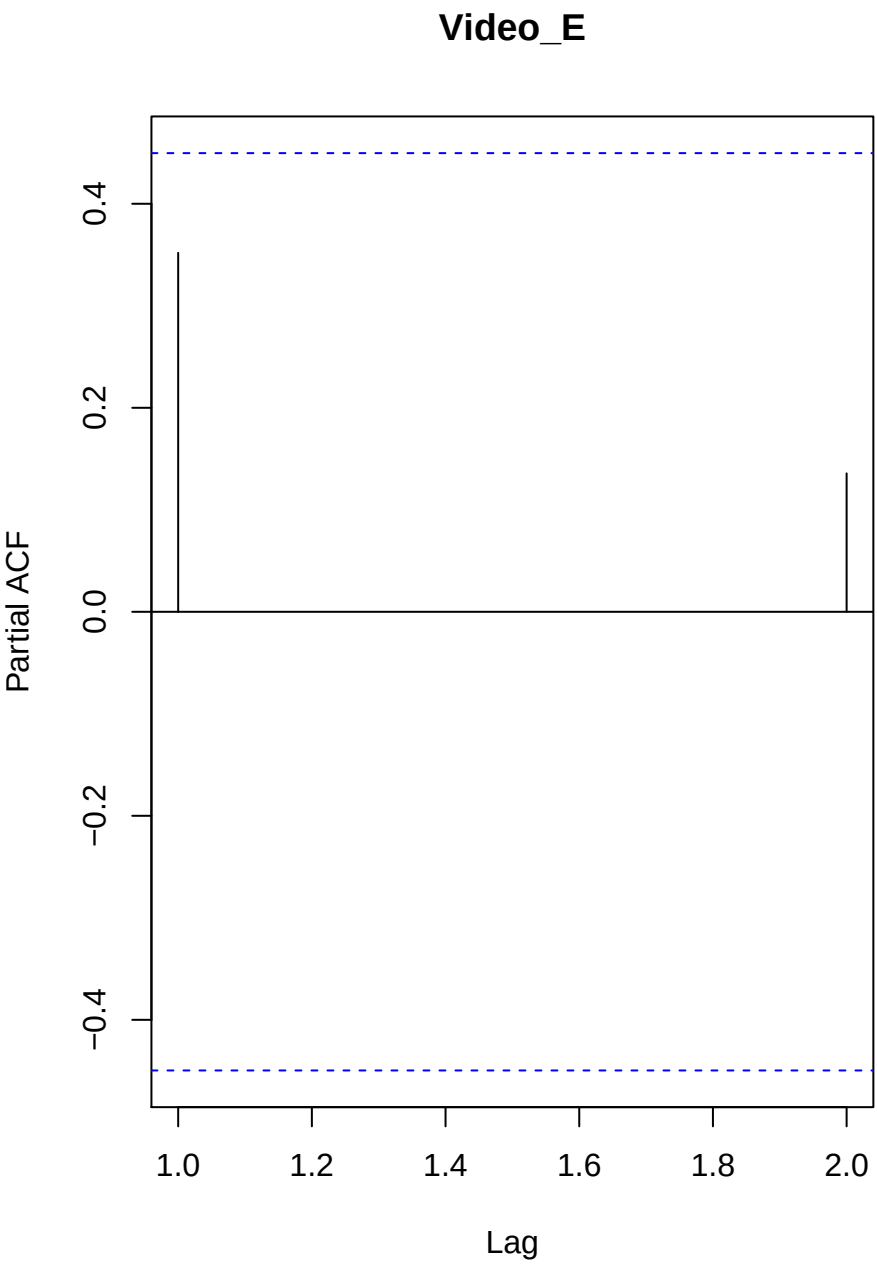

Shr_W
Obs.
Exp.
Index of Abundance
0.0
1.0
2.0
1950
1970
1990
2010
Year

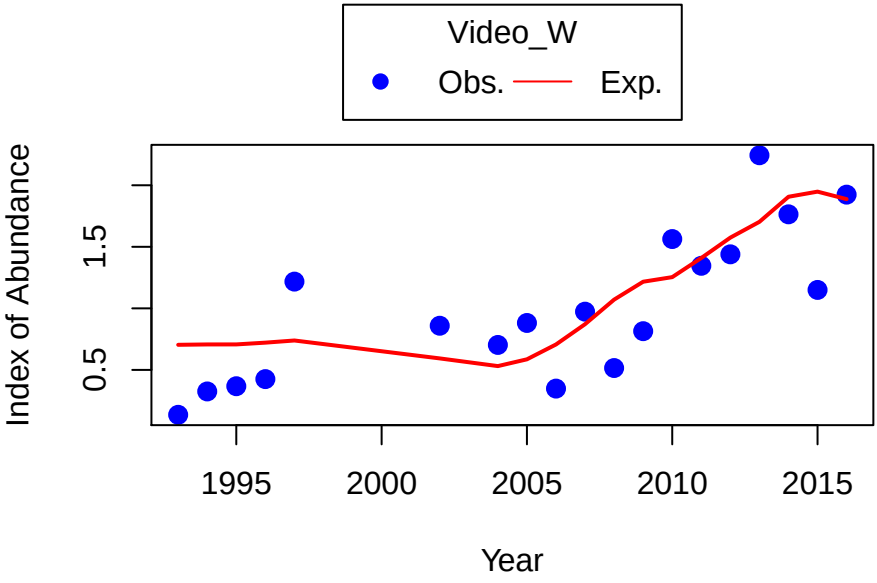

RMSE = 0.02
Deviation
−0.04
0.00
0.04
0.08
1950
1970
1990
2010
Year

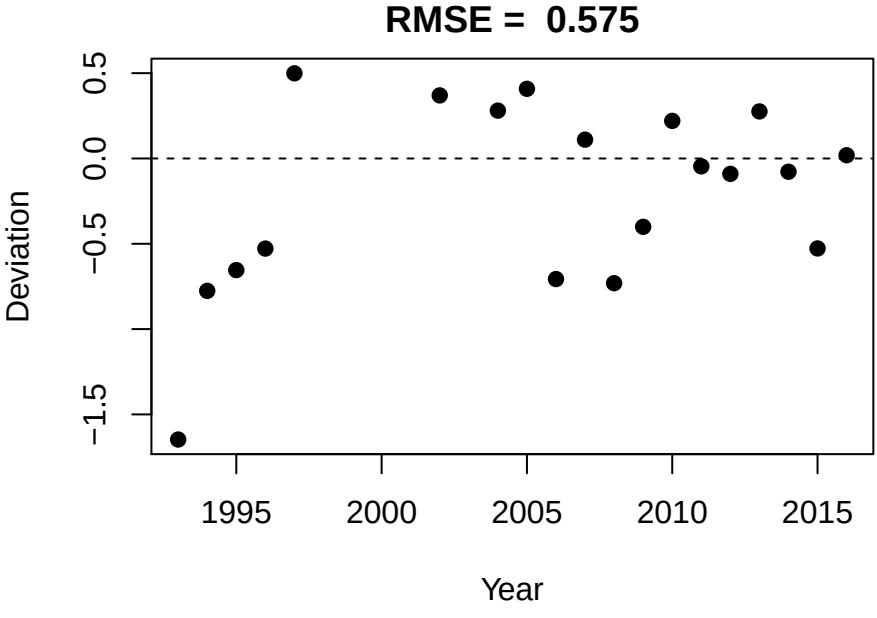

Shr_W
Partial ACF
0.4
0.2
0.0
−0.2
1.0
1.2
1.4
1.6
1.8
2.0
Lag

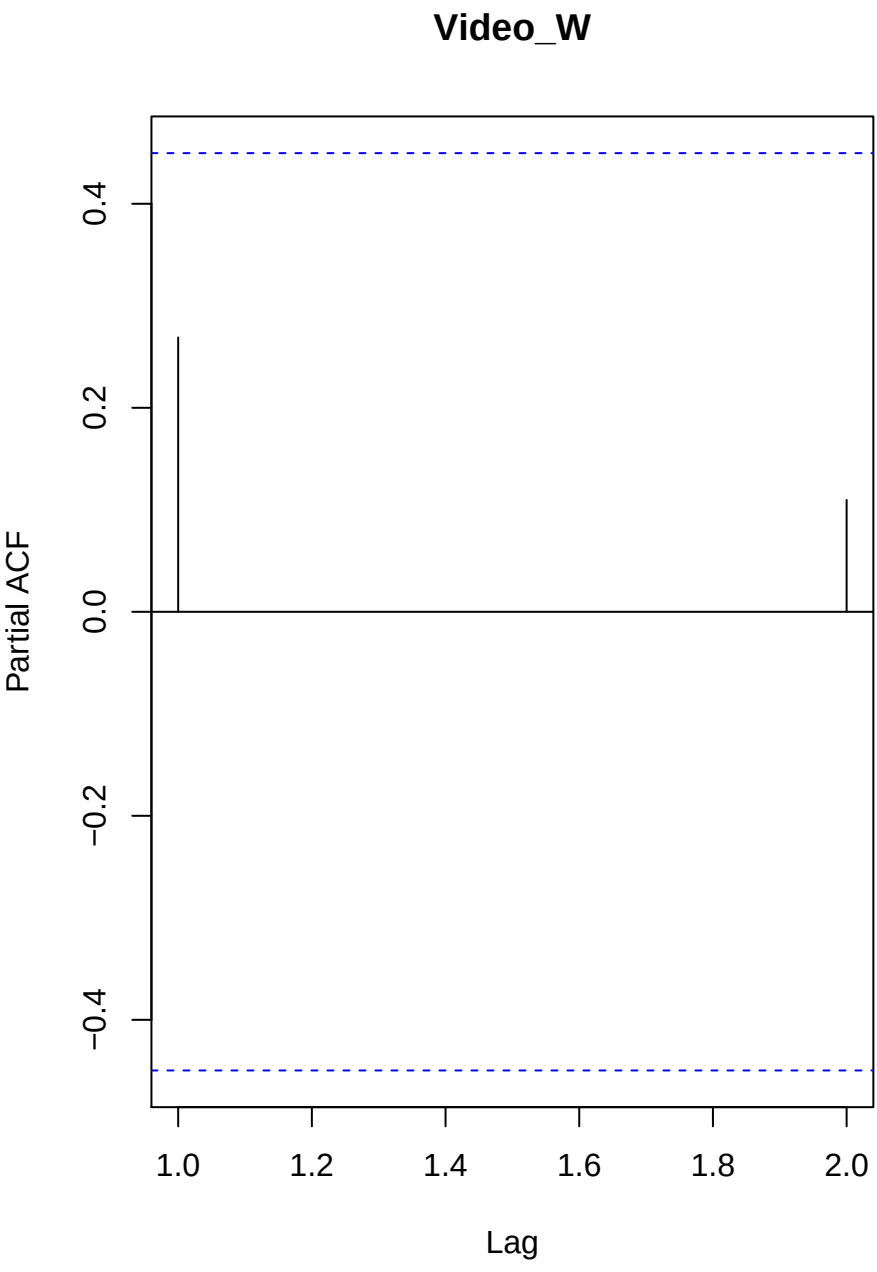

Video_E
Obs.
Exp.
Index of Abundance
0.0
1.0
2.0
1995
2000
2005
2010
2015
Year

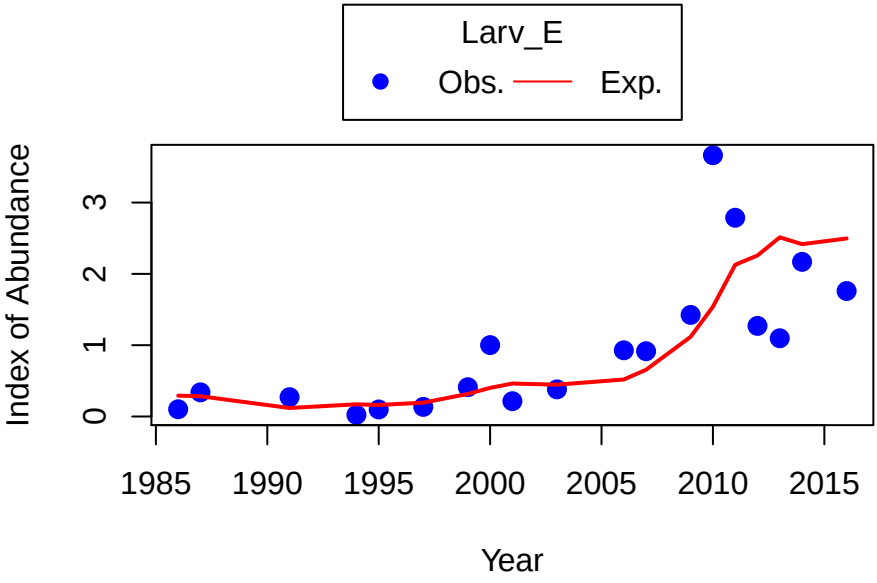

RMSE = 0.613
Deviation
−2.0
−1.0
0.0
1995
2000
2005
2010
2015
Year

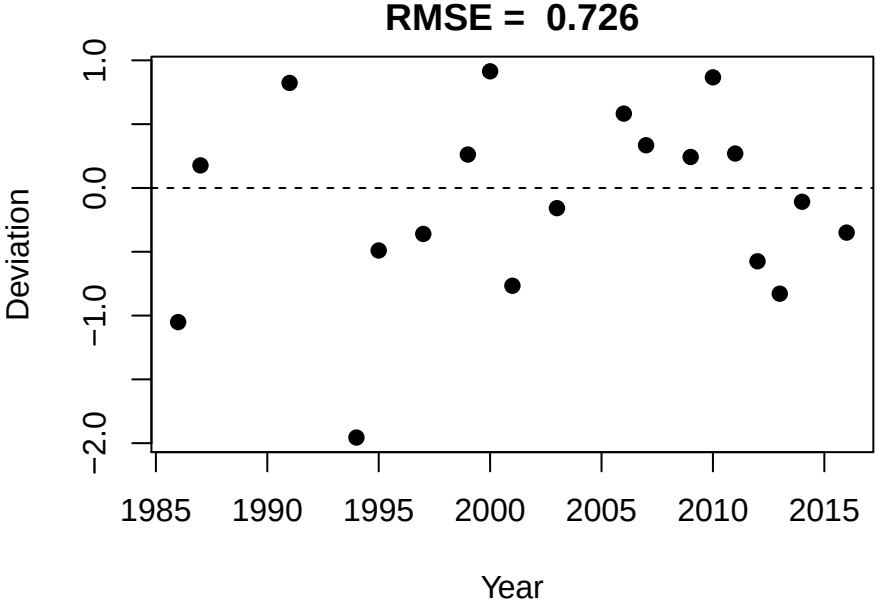

Video_E
Partial ACF
0.4
0.2
0.0
−0.2
−0.4
1.0
1.2
1.4
1.6
1.8
2.0
Lag

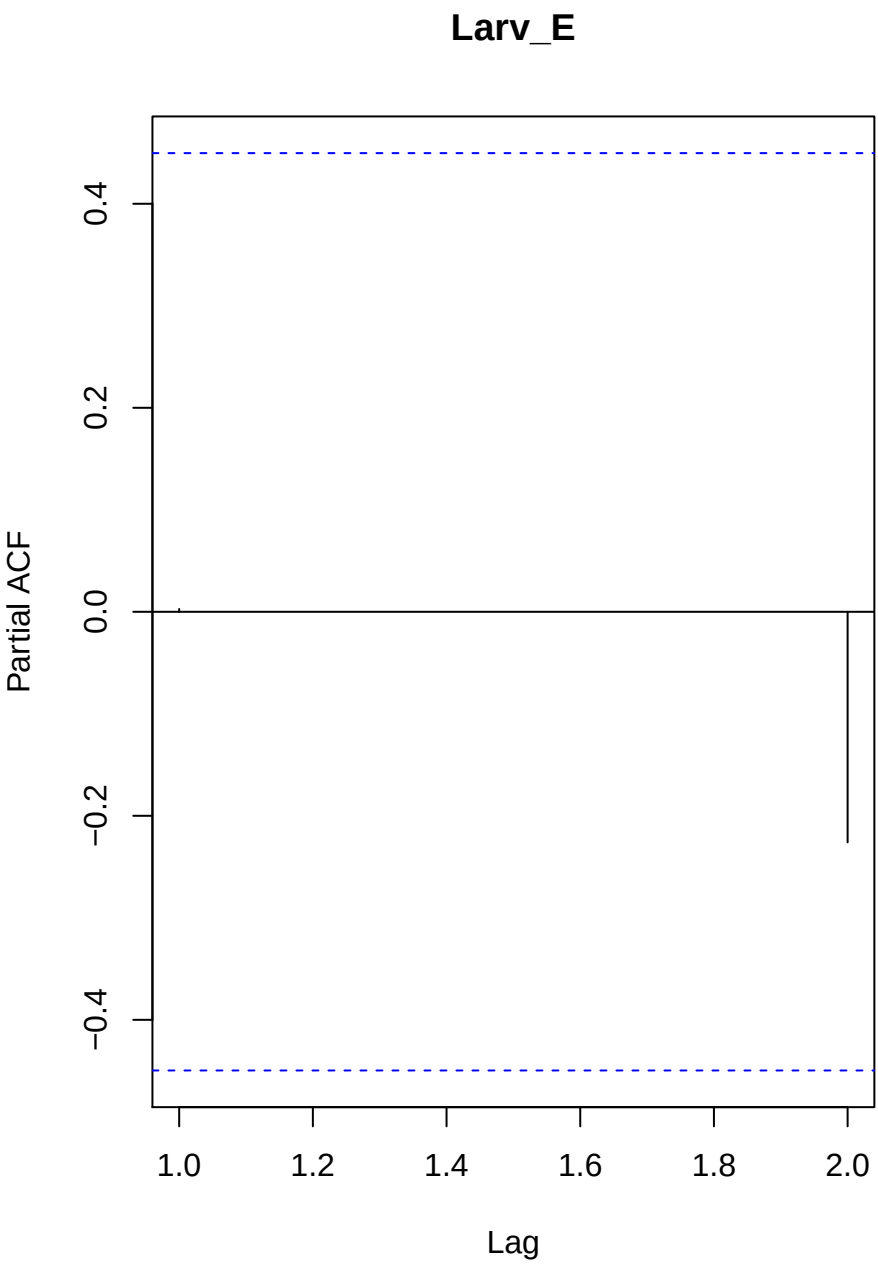

Video_W
Obs.
Exp.
Index of Abundance
0.5
1.5
1995
2000
2005
2010
2015
Year

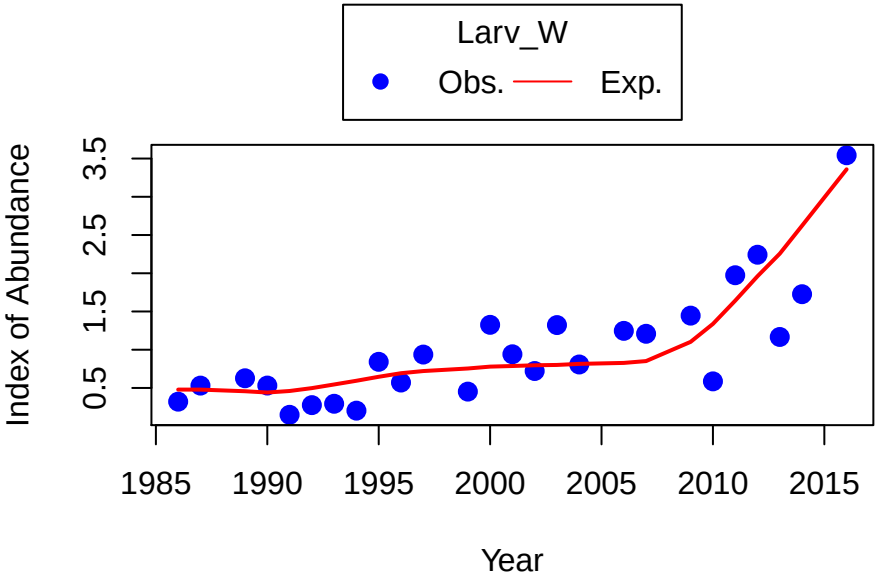

RMSE = 0.575
Deviation
0.5
0.0
−0.5
−1.5
1995
2000
2005
2010
2015
Year

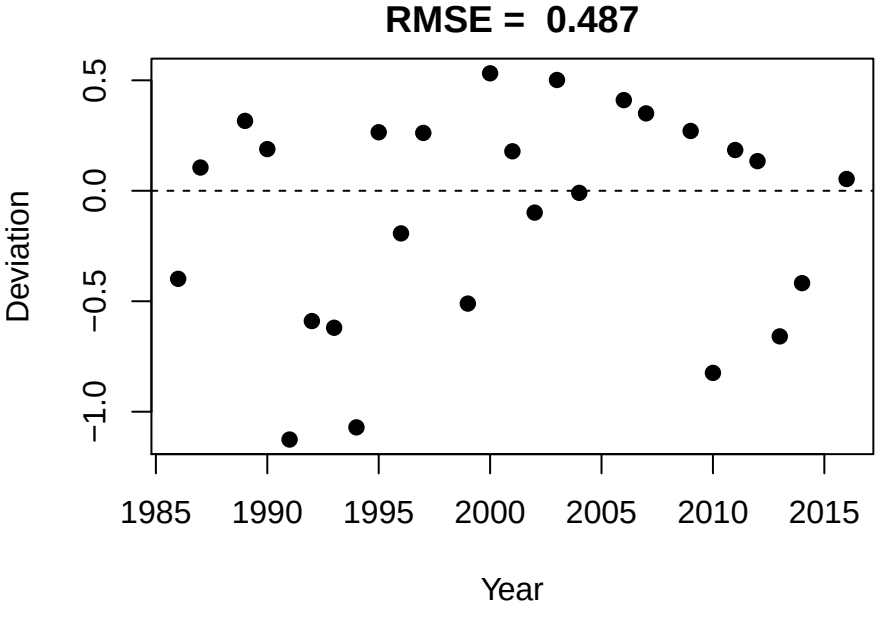

Video_W
Partial ACF
0.4
0.2
0.0
−0.2
−0.4
1.0
1.2
1.4
1.6
1.8
2.0
Lag

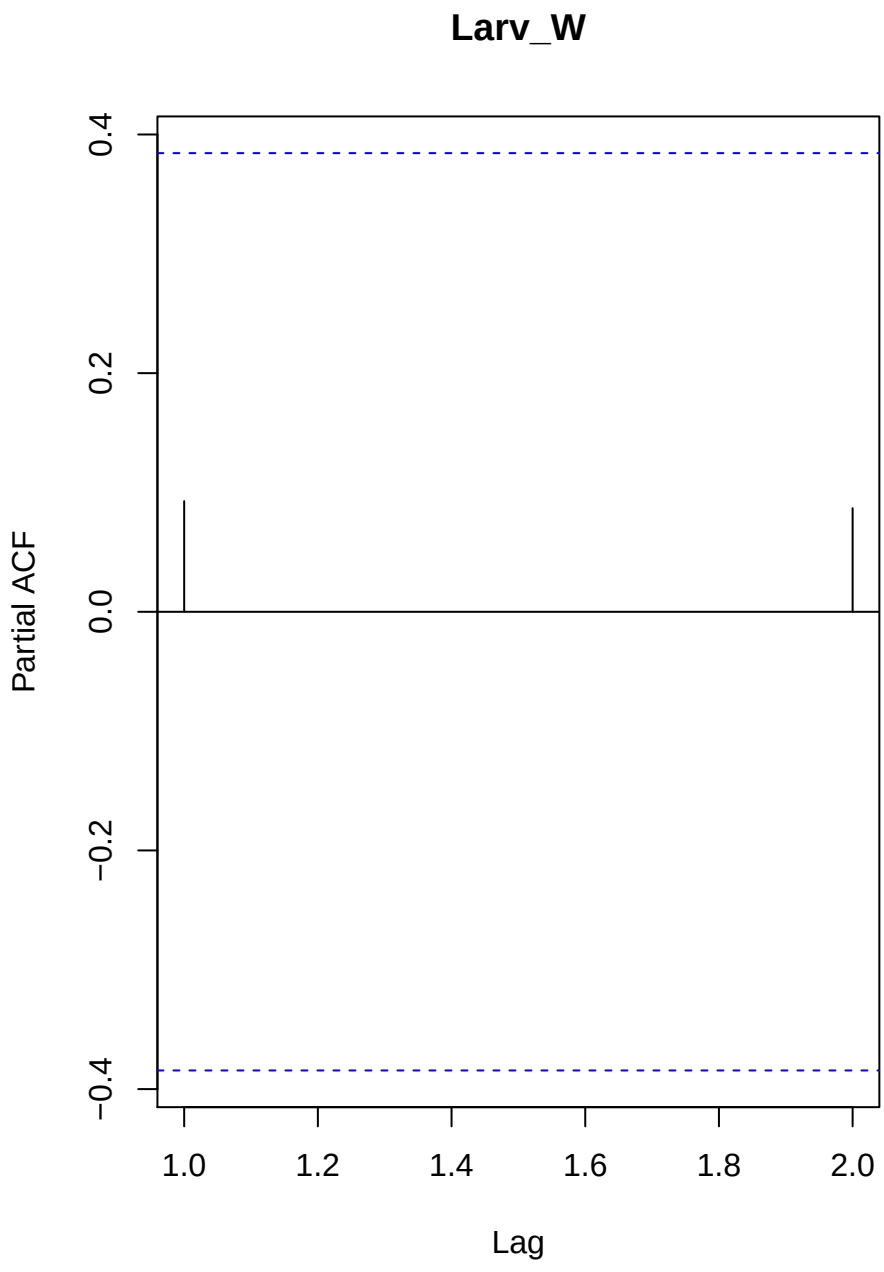

Larv_E
Obs.
Exp.
Index of Abundance
0
1
2
3
1985
1990
1995
2000
2005
2010
2015
Year

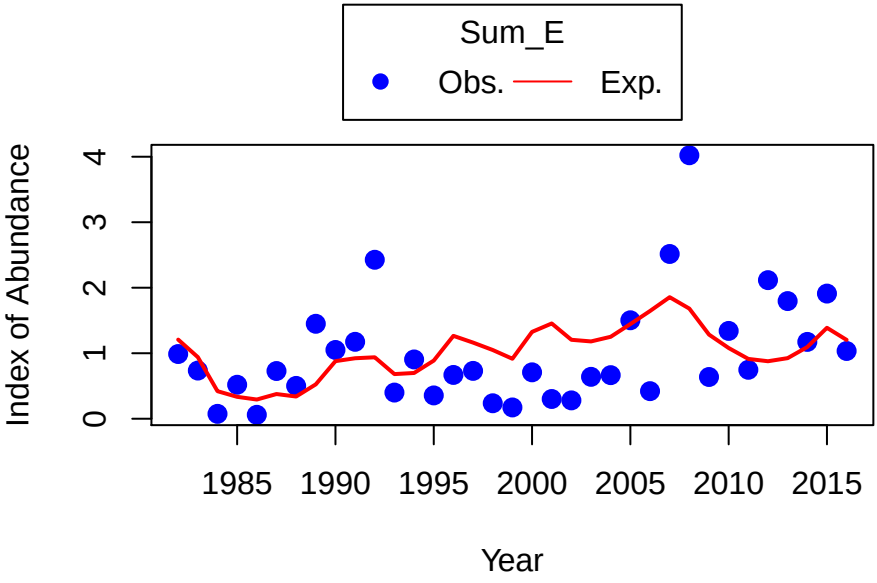

RMSE = 0.726
Deviation
1.0
0.0
−1.0
−2.0
1985
1990
1995
2000
2005
2010
2015
Year

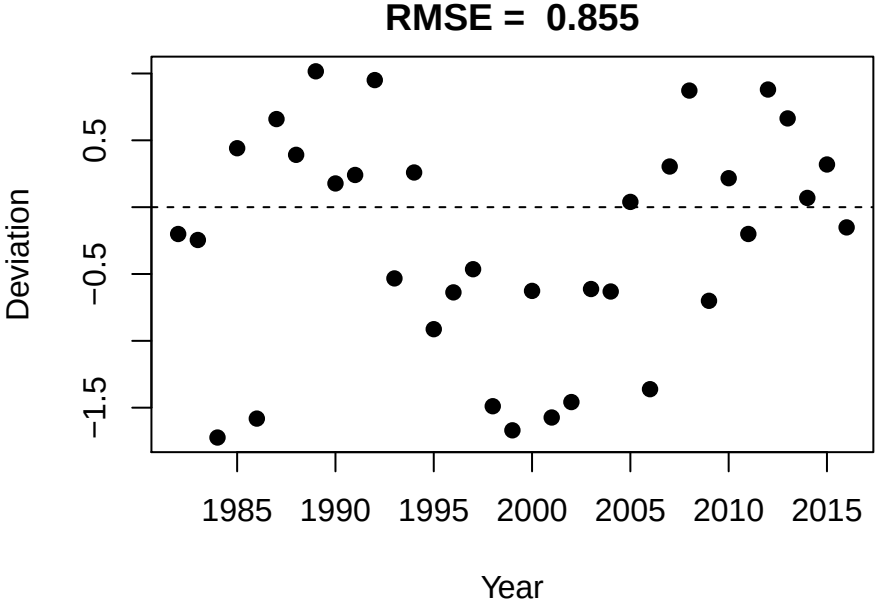

Larv_E
Partial ACF
0.4
0.2
0.0
−0.2
−0.4
1.0
1.2
1.4
1.6
1.8
2.0
Lag

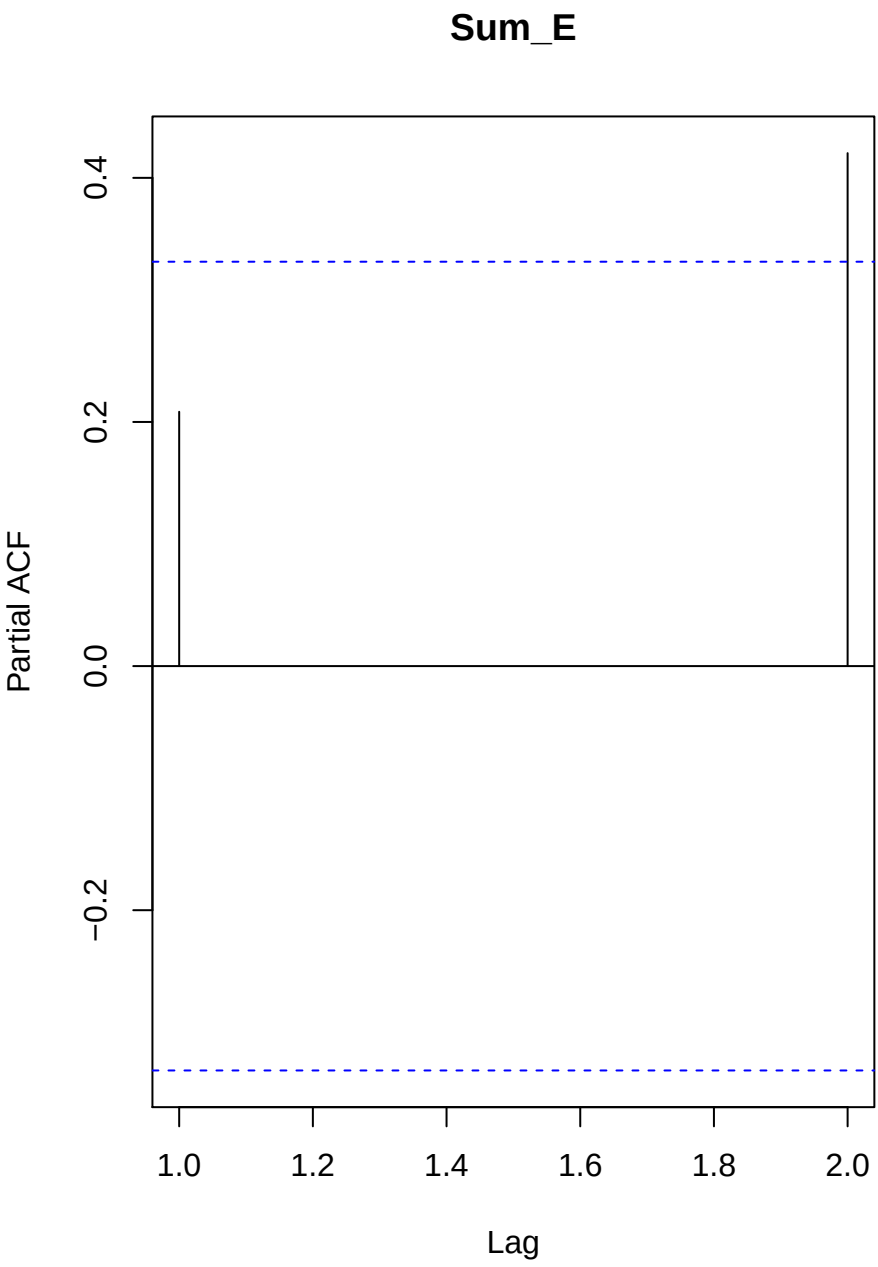

Larv_W
Obs.
Exp.
Index of Abundance
0.5
1.5
2.5
3.5
1985
1990
1995
2000
2005
2010
2015
Year

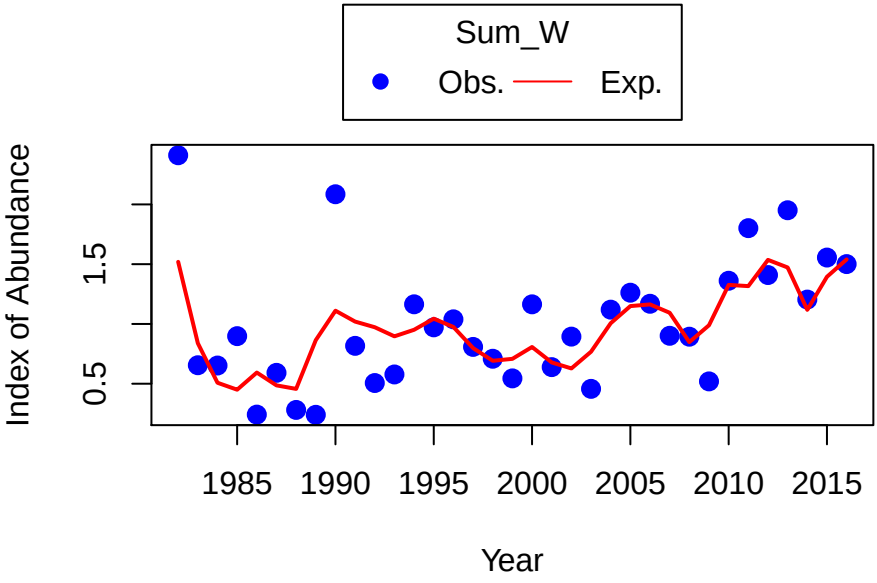

RMSE = 0.487
Deviation
−1.0
−0.5
0.0
0.5
1985
1990
1995
2000
2005
2010
2015
Year

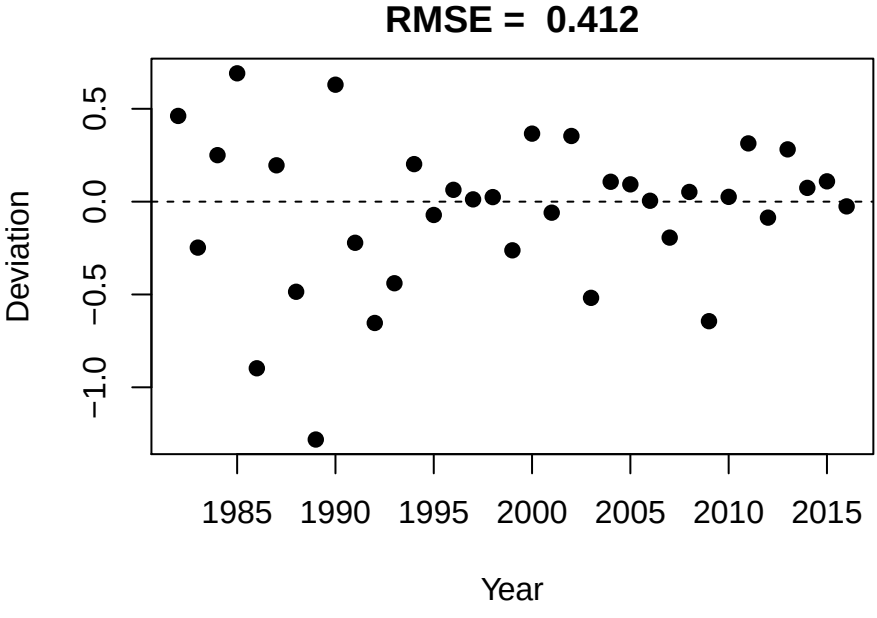

Larv_W
Partial ACF
0.4
0.2
0.0
−0.2
−0.4
1.0
1.2
1.4
1.6
1.8
2.0
Lag

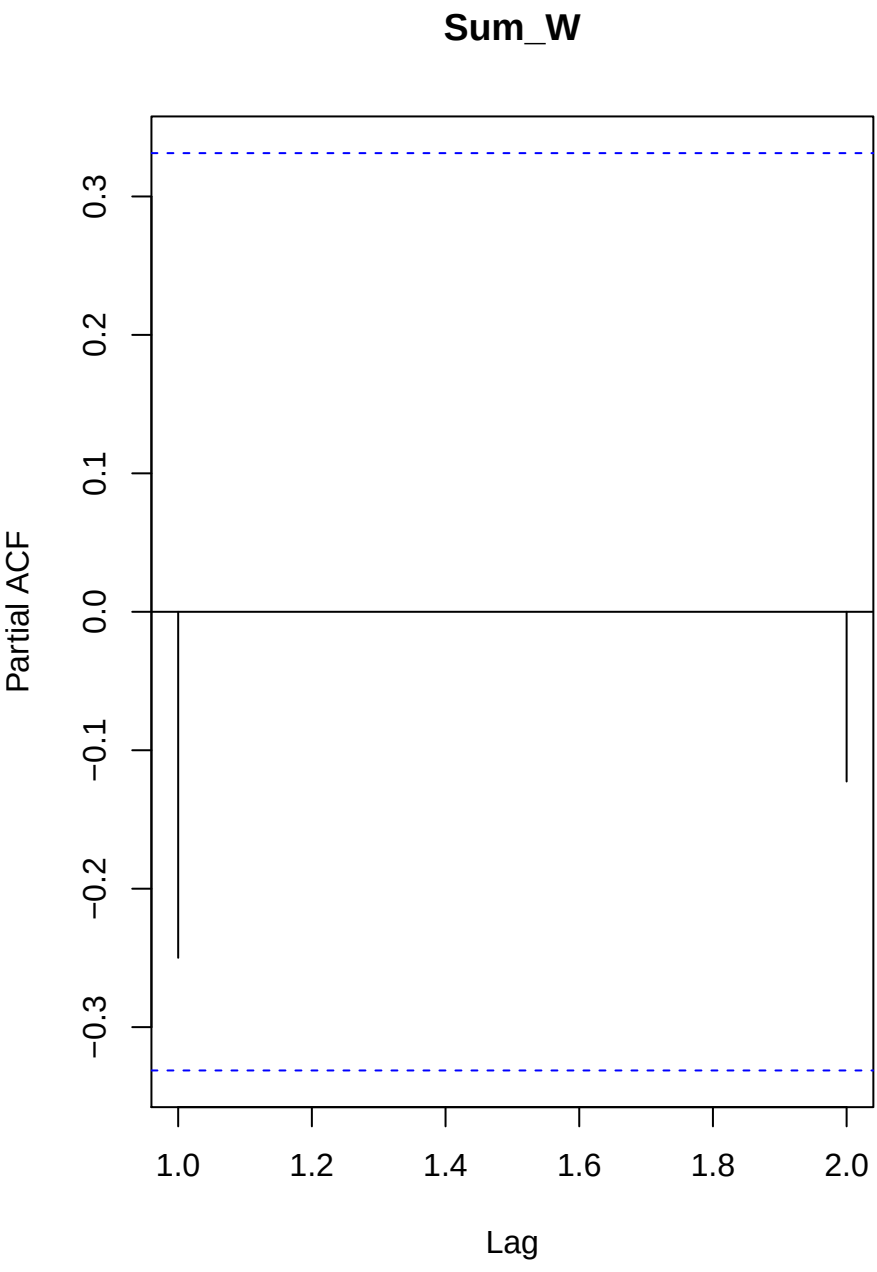

Sum_E
Obs.
Exp.
Index of Abundance
0
1
2
3
4
1985
1990
1995
2000
2005
2010
2015
Year

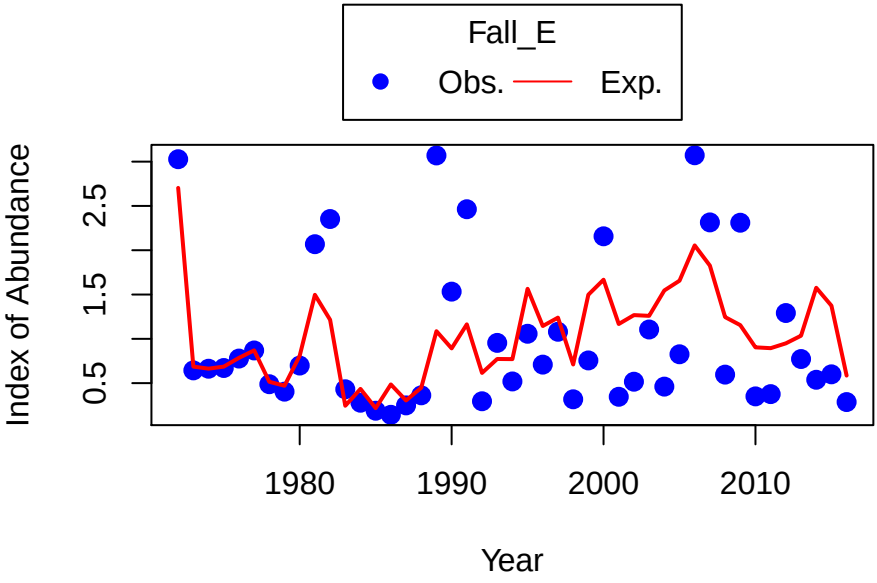

RMSE = 0.855
Deviation
0.5
−0.5
−1.5
1985
1990
1995
2000
2005
2010
2015
Year

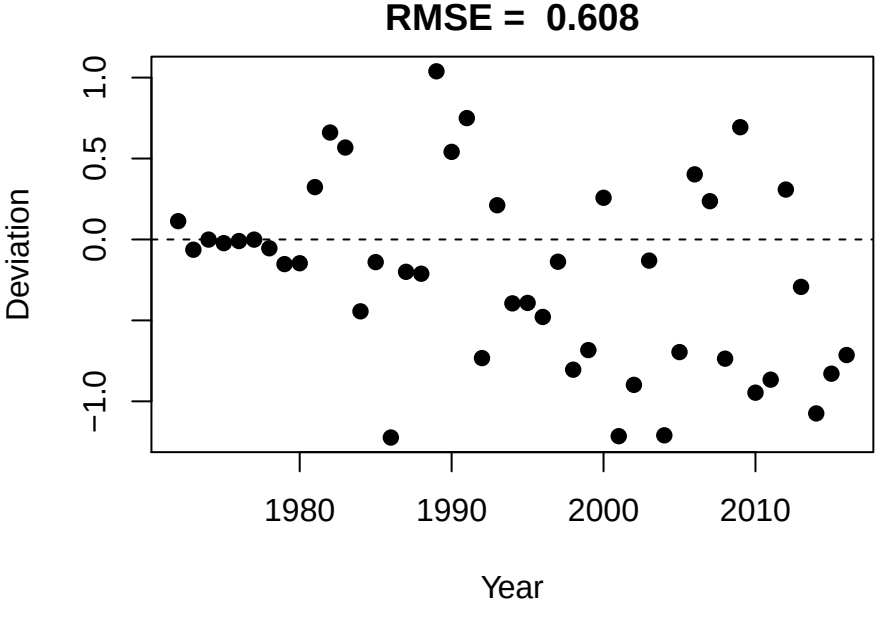

Sum_E
Partial ACF
0.4
0.2
0.0
−0.2
1.0
1.2
1.4
1.6
1.8
2.0
Lag

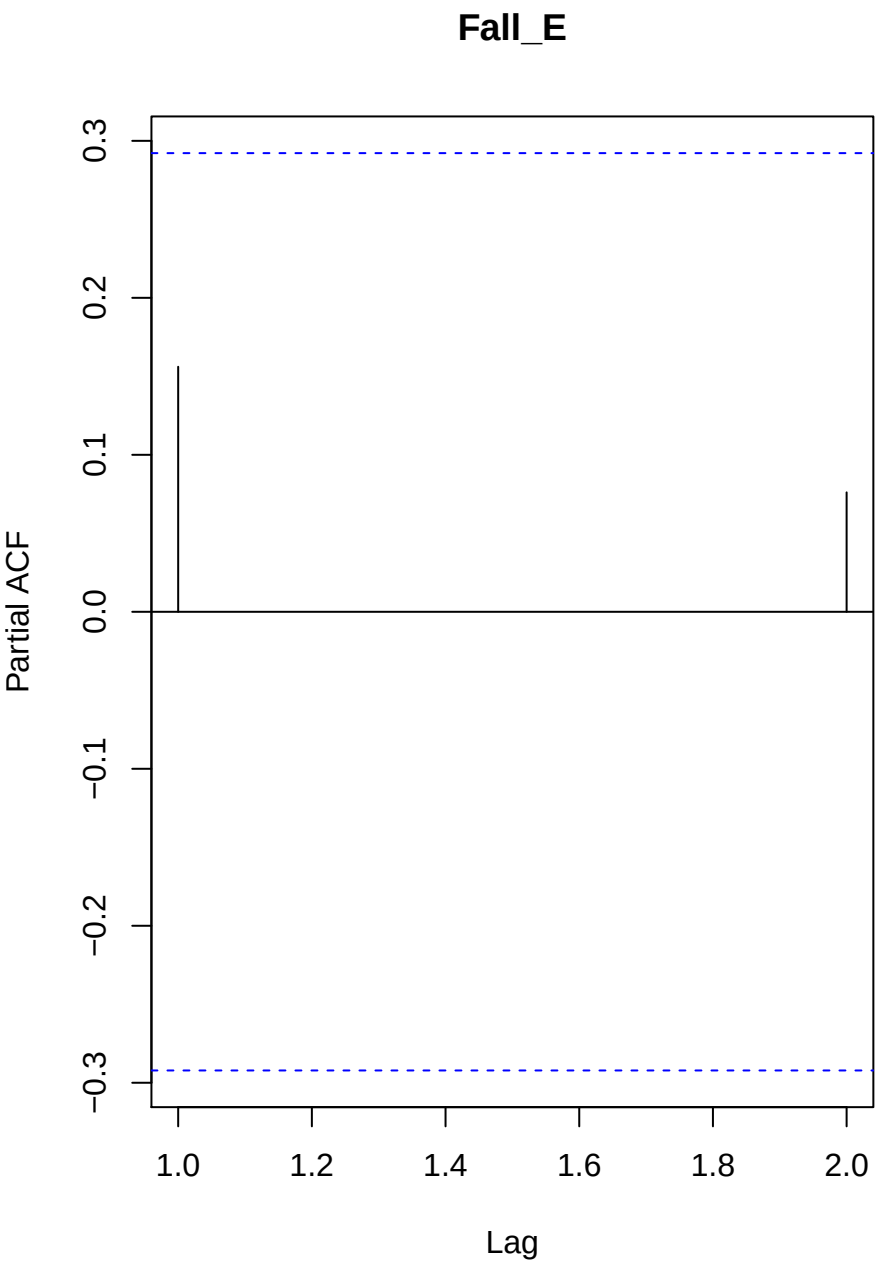

Sum_W
Obs.
Exp.
Index of Abundance
0.5
1.5
1985
1990
1995
2000
2005
2010
2015
Year

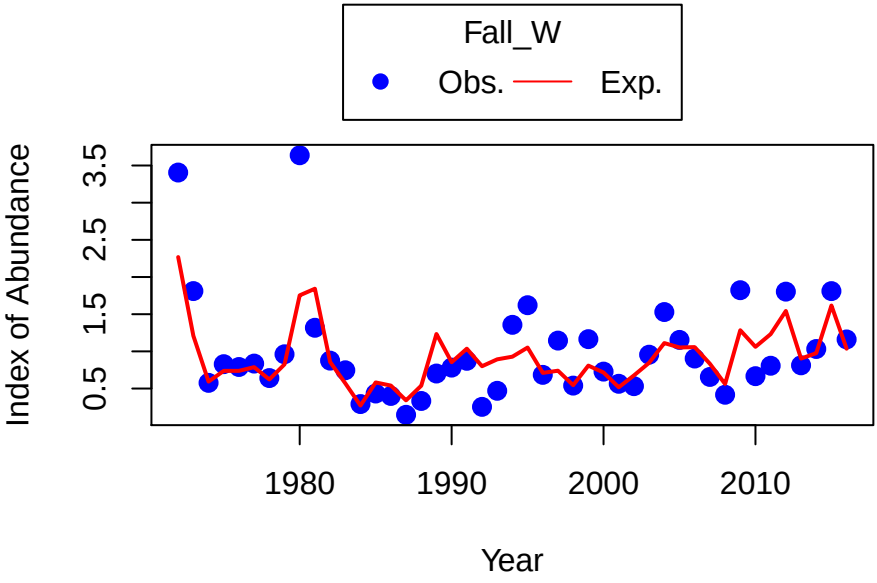

RMSE = 0.412
Deviation
−1.0
−0.5
0.0
0.5
1985
1990
1995
2000
2005
2010
2015
Year

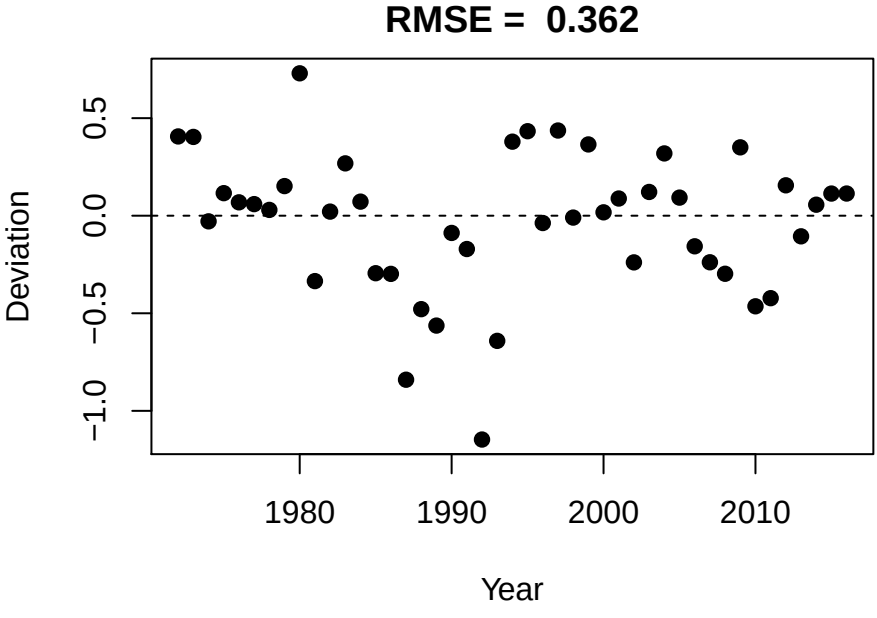

Sum_W
Partial ACF
0.3
0.2
0.1
0.0
−0.1
−0.2
−0.3
1.0
1.2
1.4
1.6
1.8
2.0
Lag

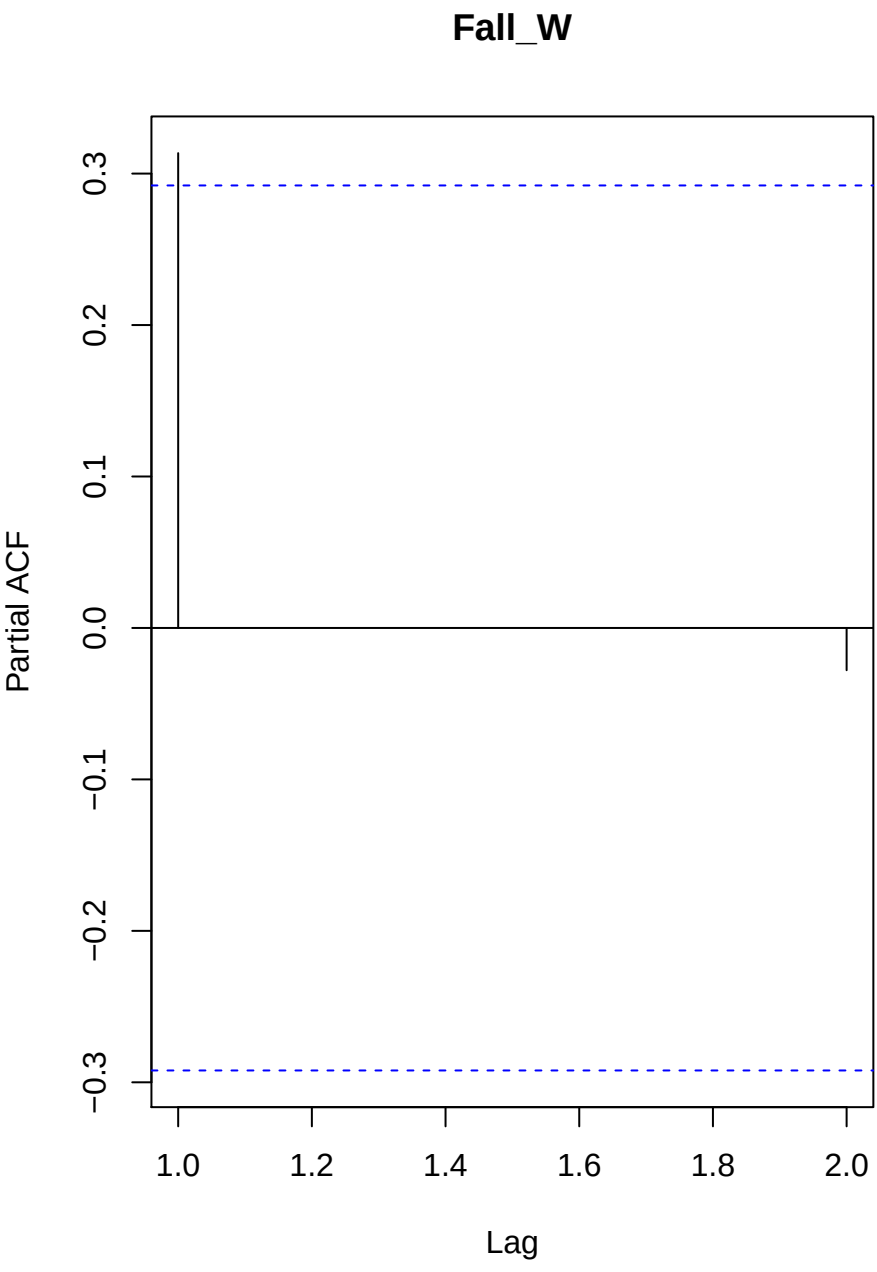

Fall_E
Obs.
Exp.
Index of Abundance
0.5
1.5
2.5
1980
1990
2000
2010
Year

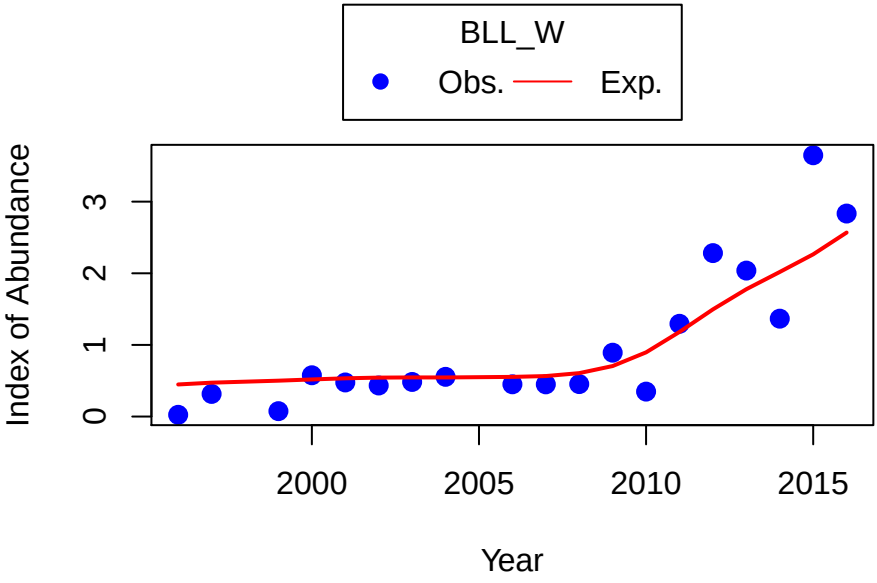

RMSE = 0.608
Deviation
−1.0
0.0
0.5
1.0
1980
1990
2000
2010
Year

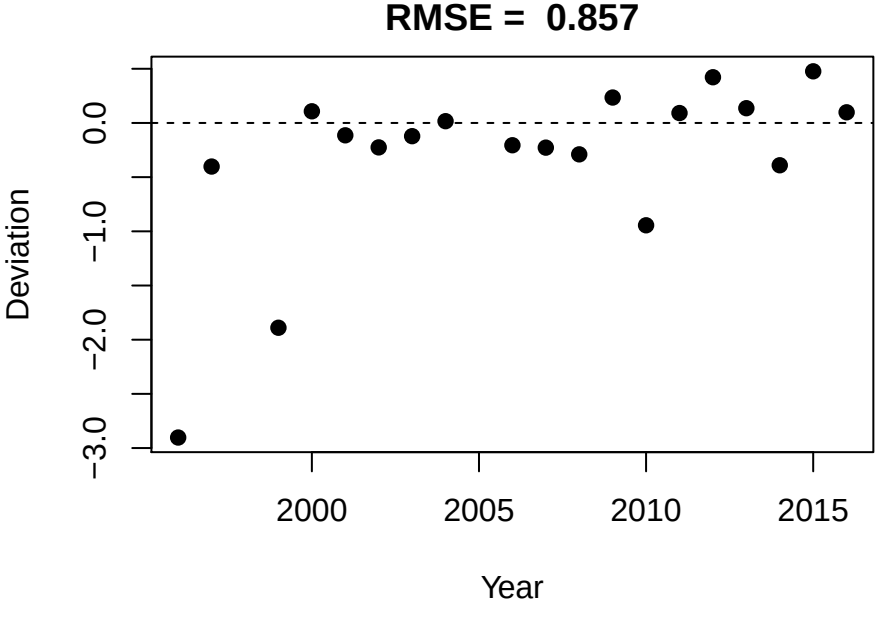

Fall_E
Partial ACF
0.3
0.2
0.1
0.0
−0.1
−0.2
−0.3
1.0
1.2
1.4
1.6
1.8
2.0
Lag

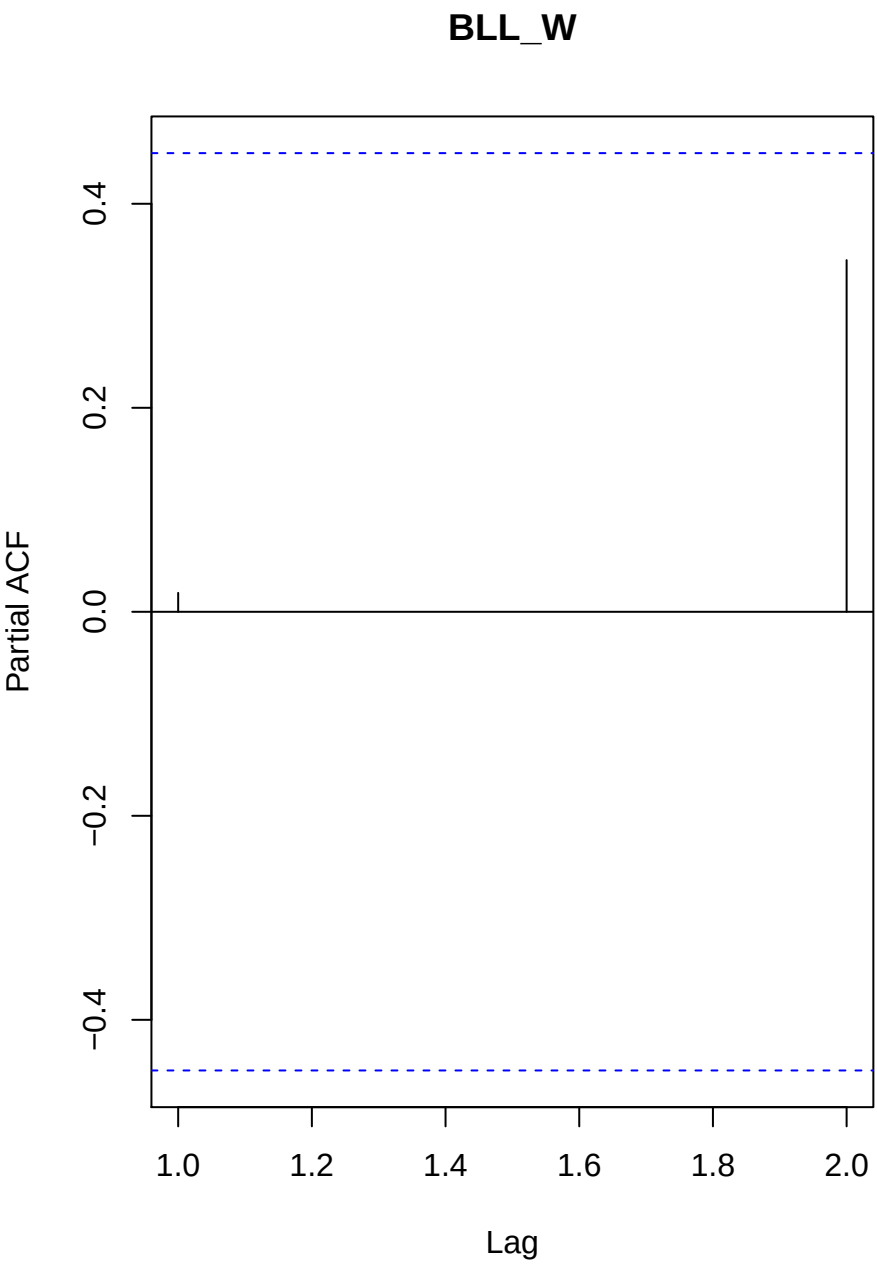

Fall_W
Obs.
Exp.
Index of Abundance
0.5
1.5
2.5
3.5
1980
1990
2000
2010
Year

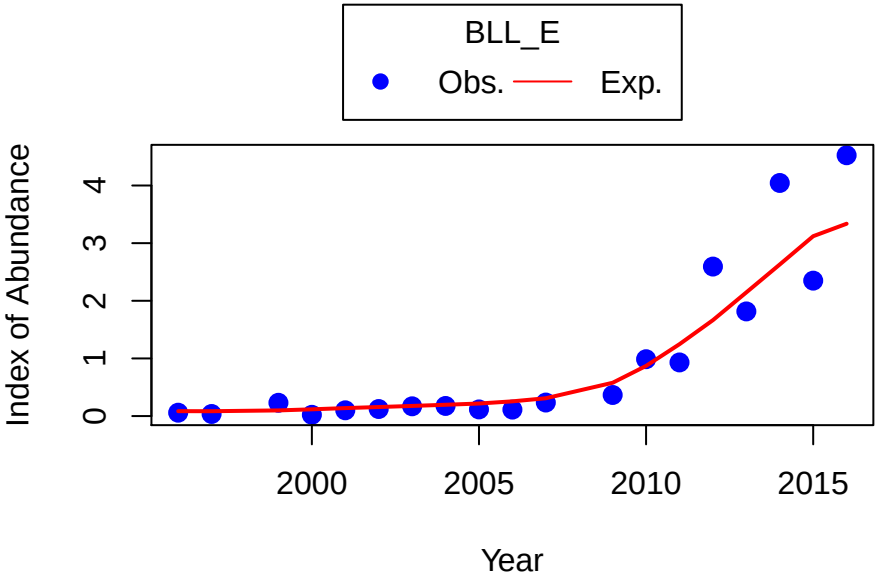

RMSE = 0.362
Deviation
−1.0
−0.5
0.0
0.5
1980
1990
2000
2010
Year

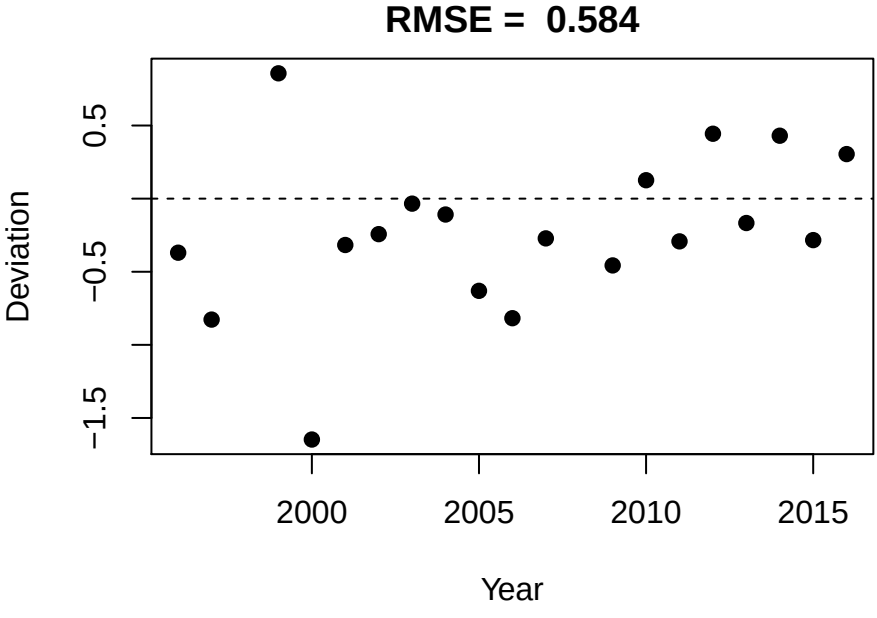

Fall_W
Partial ACF
0.3
0.2
0.1
0.0
−0.1
−0.2
−0.3
1.0
1.2
1.4
1.6
1.8
2.0
Lag

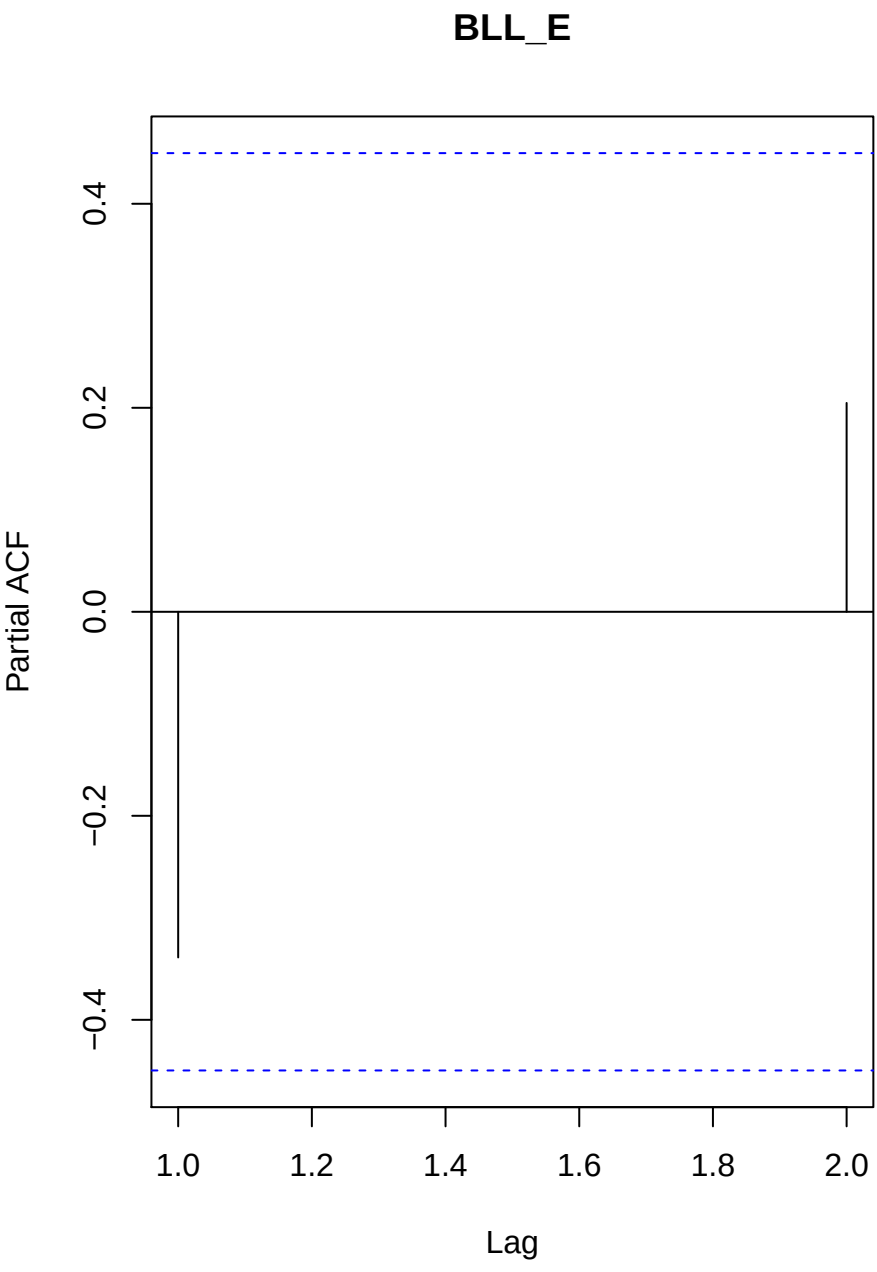

BLL_W
Obs.
Exp.
Index of Abundance
0
1
2
3
2000
2005
2010
2015
Year

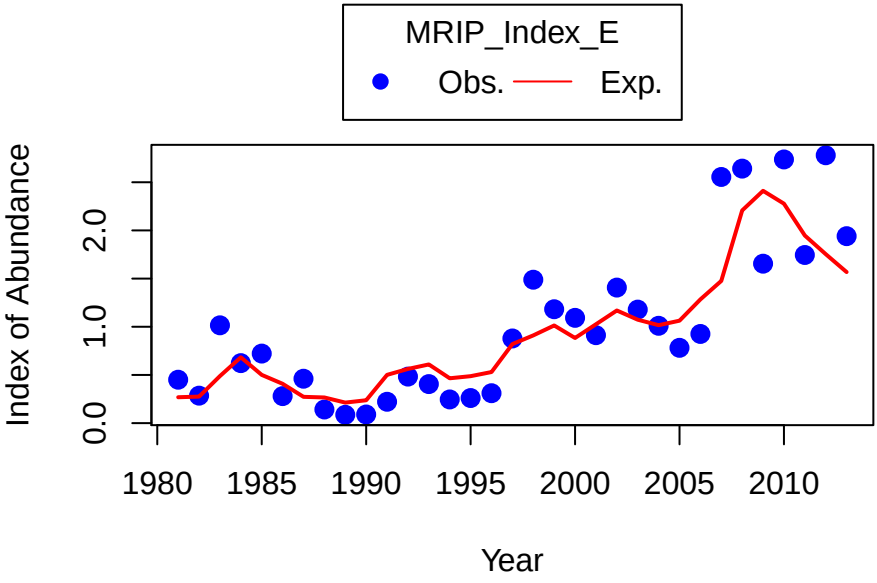

RMSE = 0.857
Deviation
0.0
−1.0
−2.0
−3.0
2000
2005
2010
2015
Year

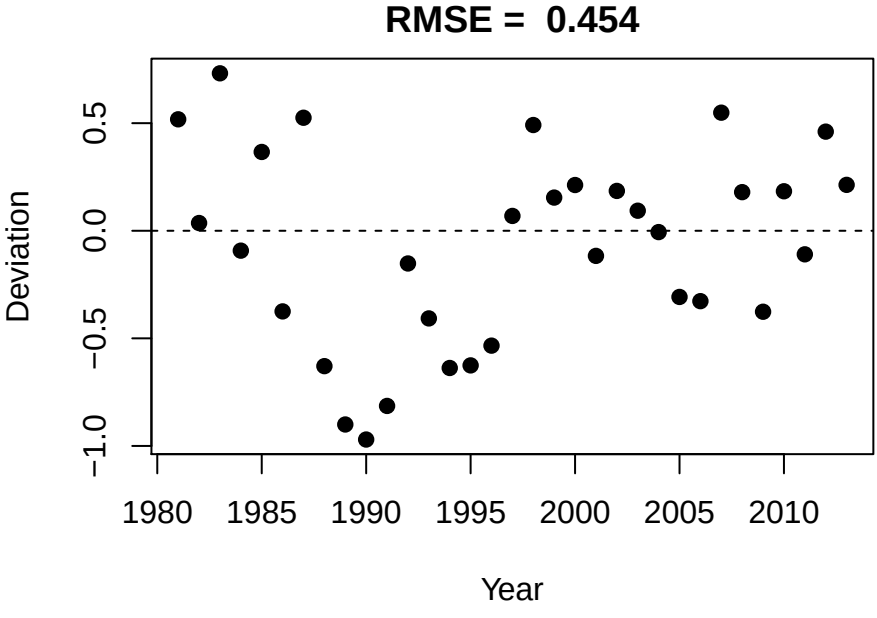

BLL_W
Partial ACF
0.4
0.2
0.0
−0.2
−0.4
1.0
1.2
1.4
1.6
1.8
2.0
Lag

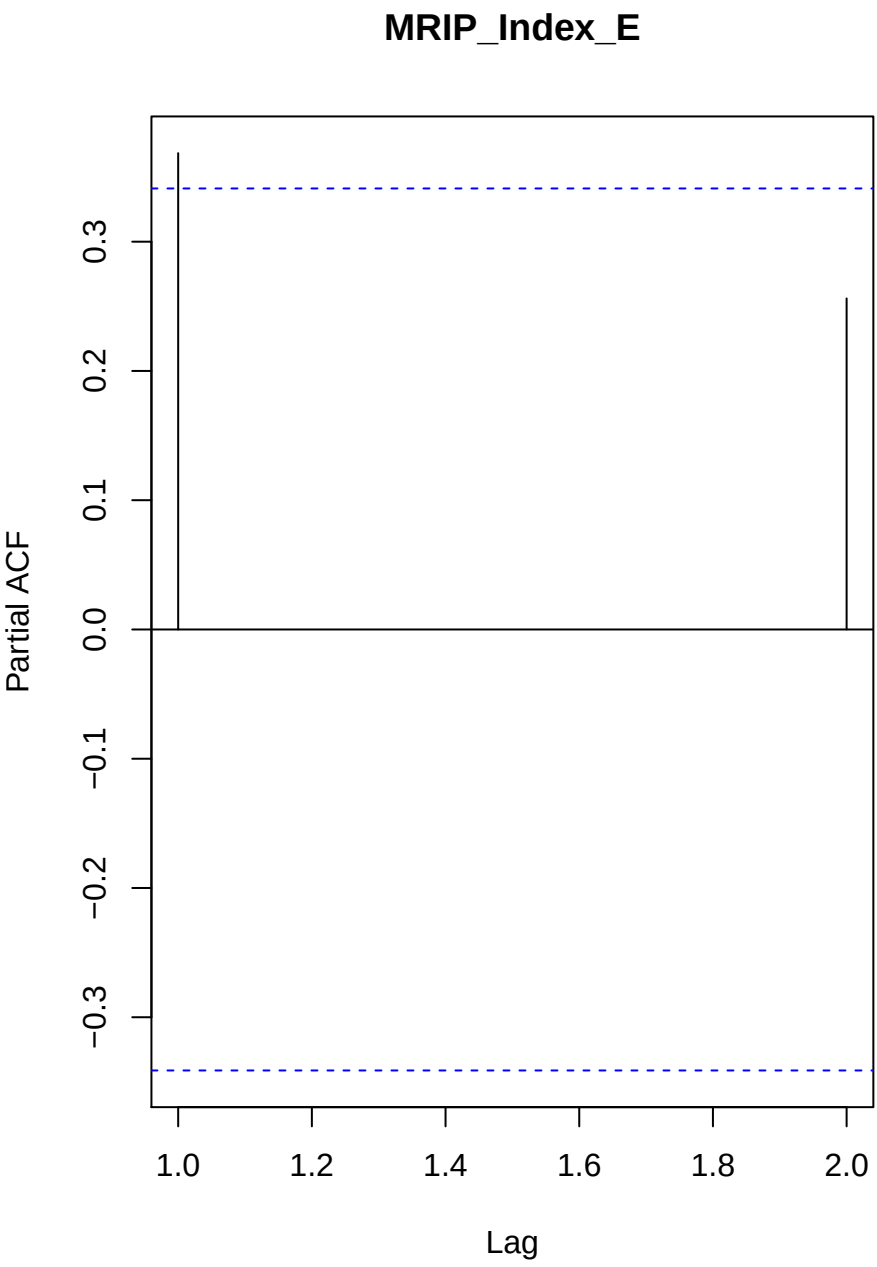

BLL_E
Obs.
Exp.
Index of Abundance
0
1
2
3
4
2000
2005
2010
2015
Year

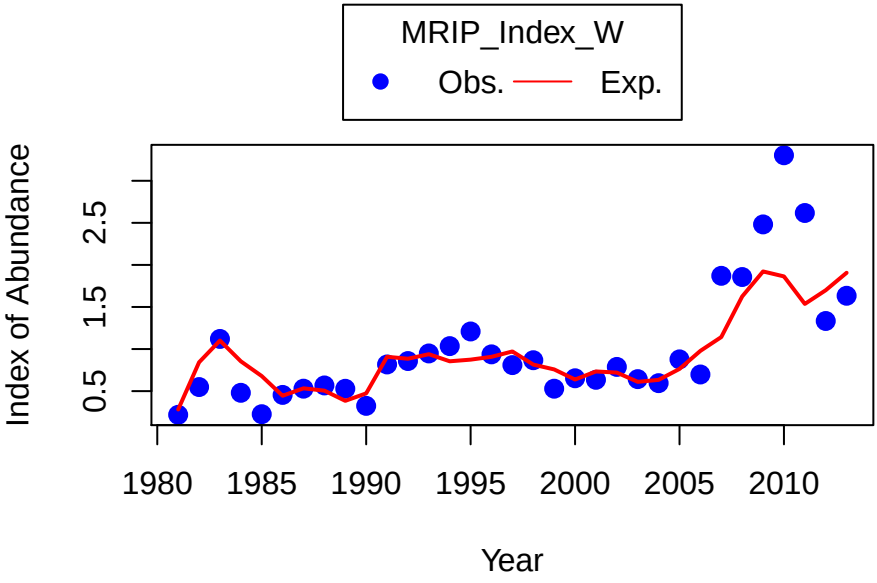

RMSE = 0.584
Deviation
0.5
−0.5
−1.5
2000
2005
2010
2015
Year

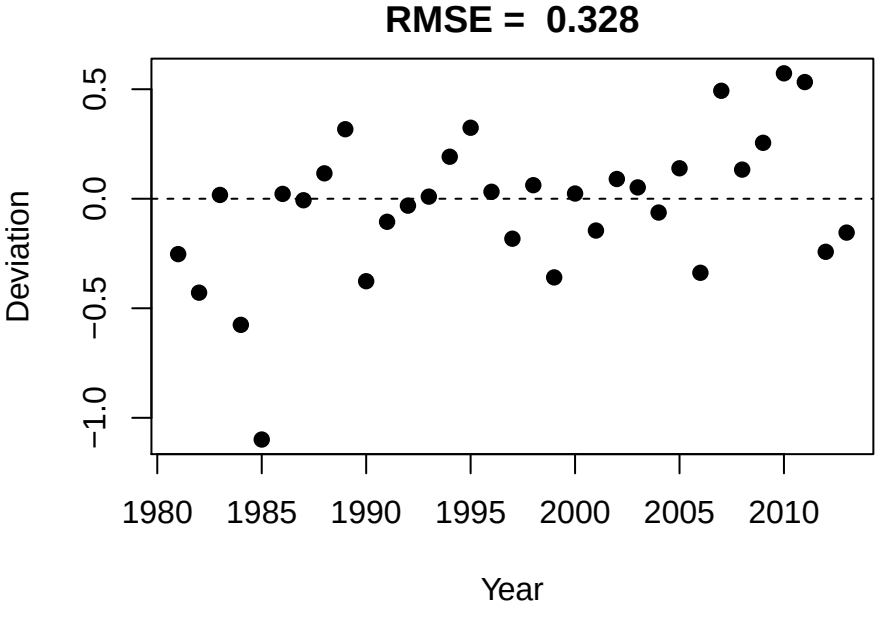

BLL_E
Partial ACF
0.4
0.2
0.0
−0.2
−0.4
1.0
1.2
1.4
1.6
1.8
2.0
Lag

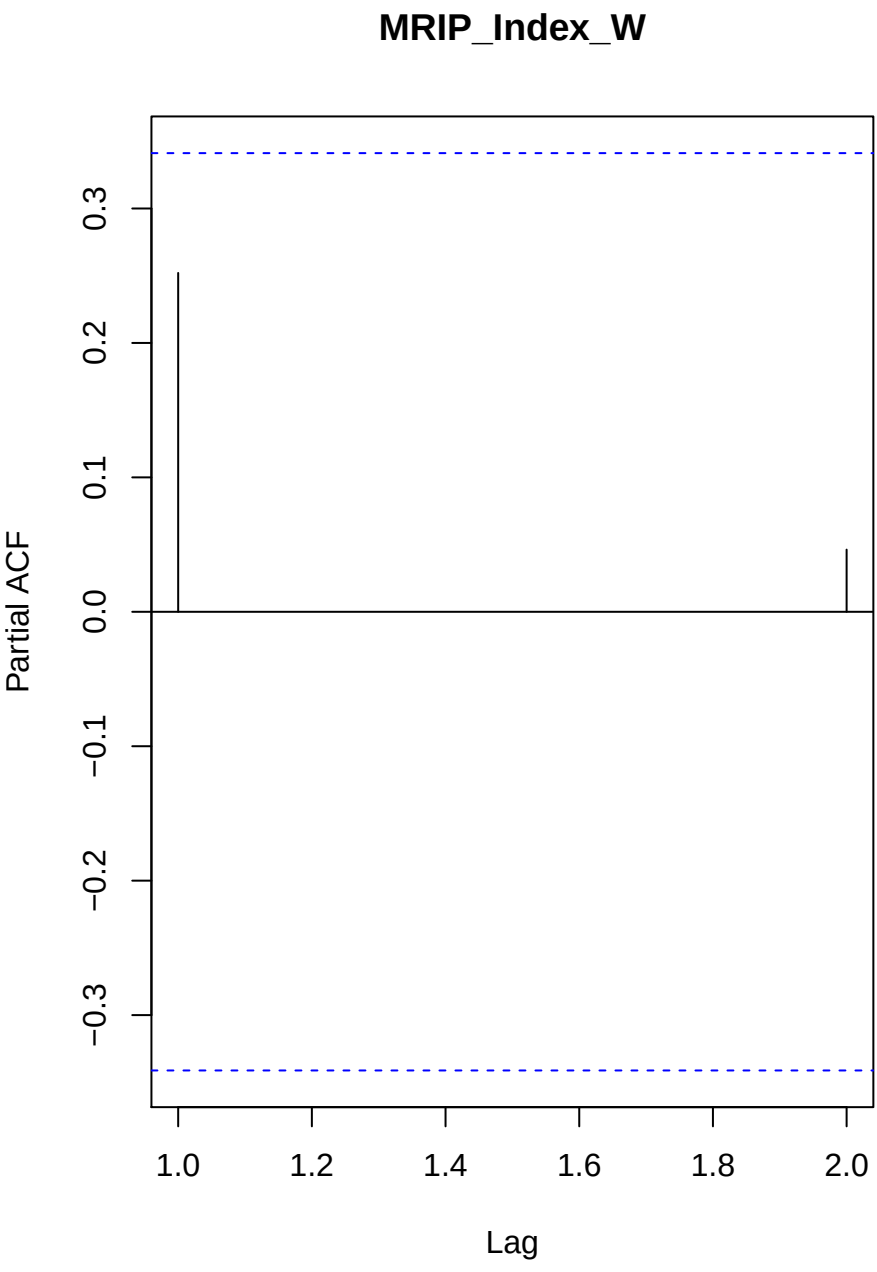

MRIP_Index_E
Obs.
Exp.
Index of Abundance
0.0
1.0
2.0
1980
1985
1990
1995
2000
2005
2010
Year

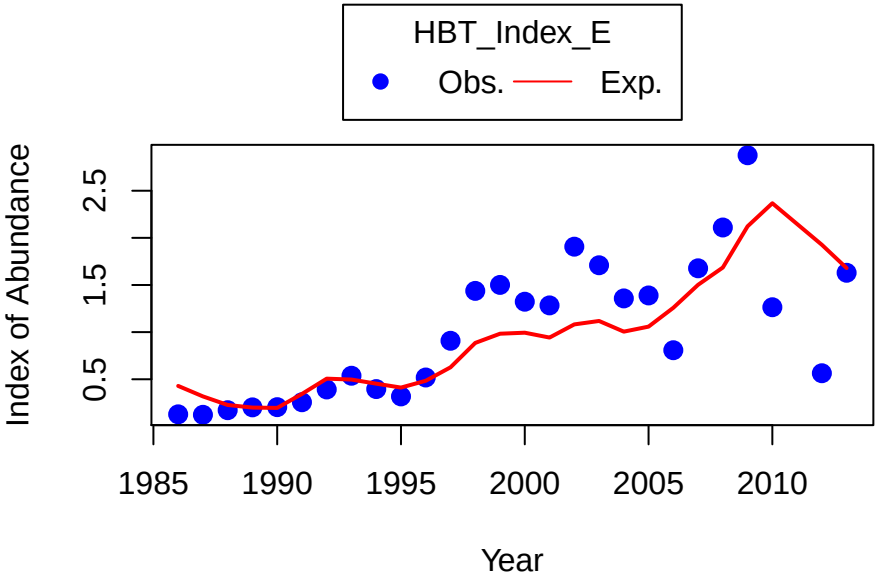

RMSE = 0.454
Deviation
−1.0
−0.5
0.0
0.5
1980
1985
1990
1995
2000
2005
2010
Year

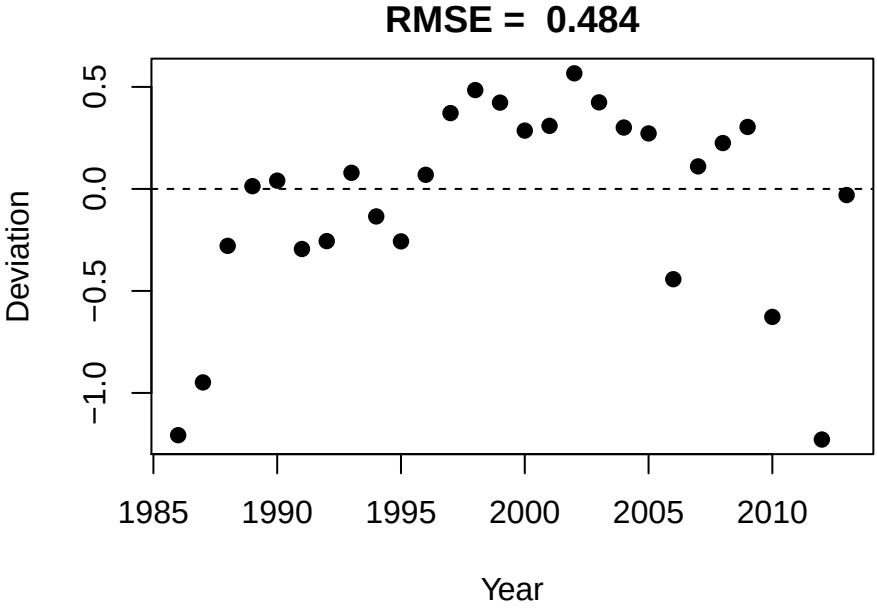

MRIP_Index_E
Partial ACF
0.3
0.2
0.1
0.0
−0.1
−0.2
−0.3
1.0
1.2
1.4
1.6
1.8
2.0
Lag

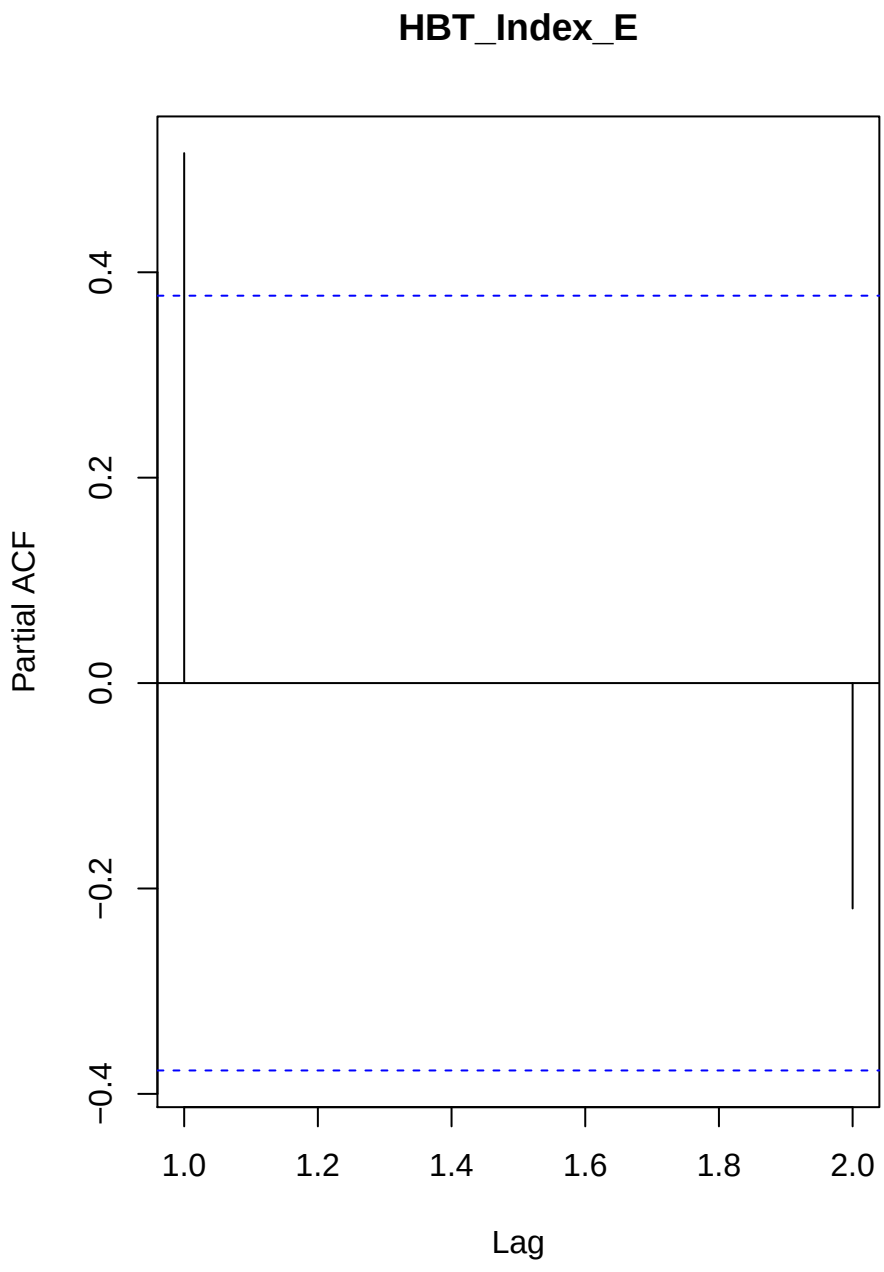

MRIP_Index_W
Obs.
Exp.
Index of Abundance
0.5
1.5
2.5
1980
1985
1990
1995
2000
2005
2010
Year

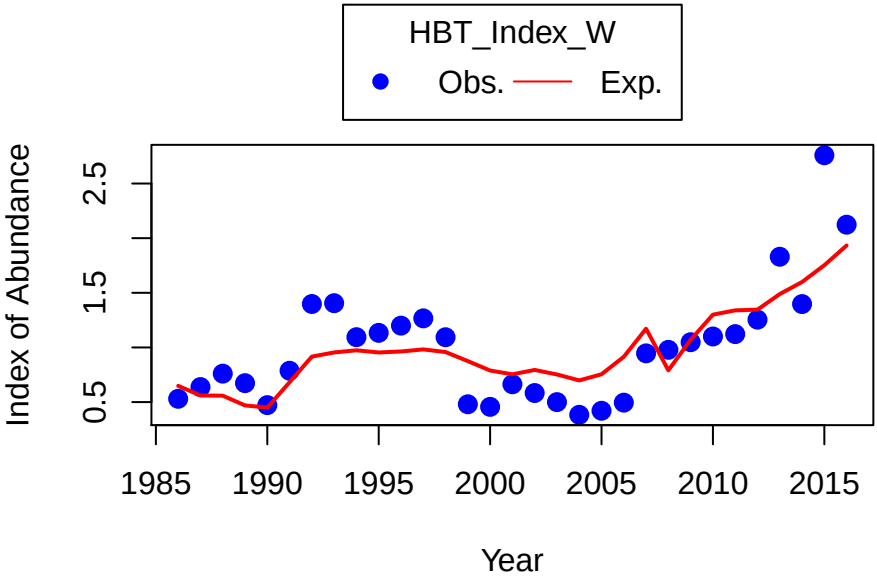

RMSE = 0.328
Deviation
−1.0
−0.5
0.0
0.5
1980
1985
1990
1995
2000
2005
2010
Year

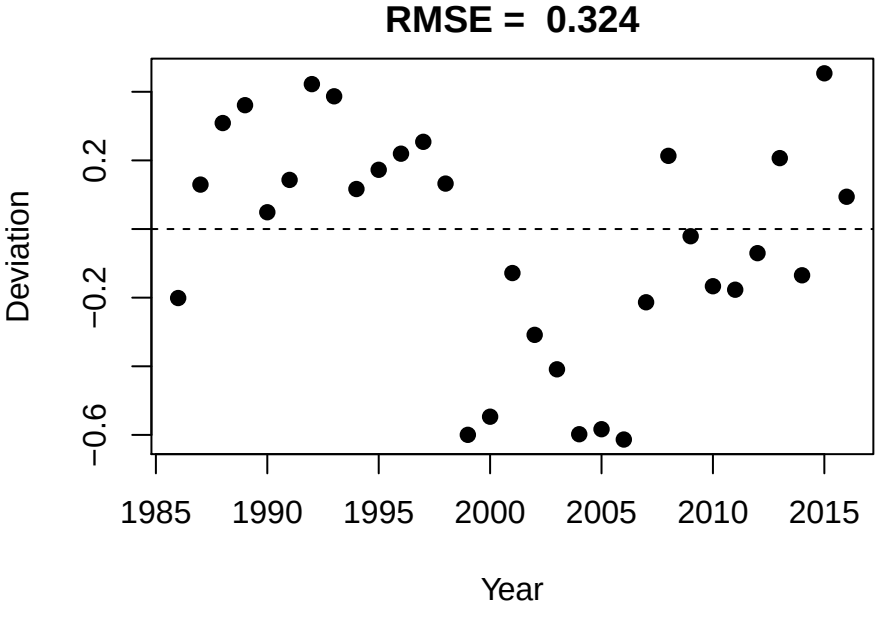

MRIP_Index_W
Partial ACF
0.3
0.2
0.1
0.0
−0.1
−0.2
−0.3
1.0
1.2
1.4
1.6
1.8
2.0
Lag

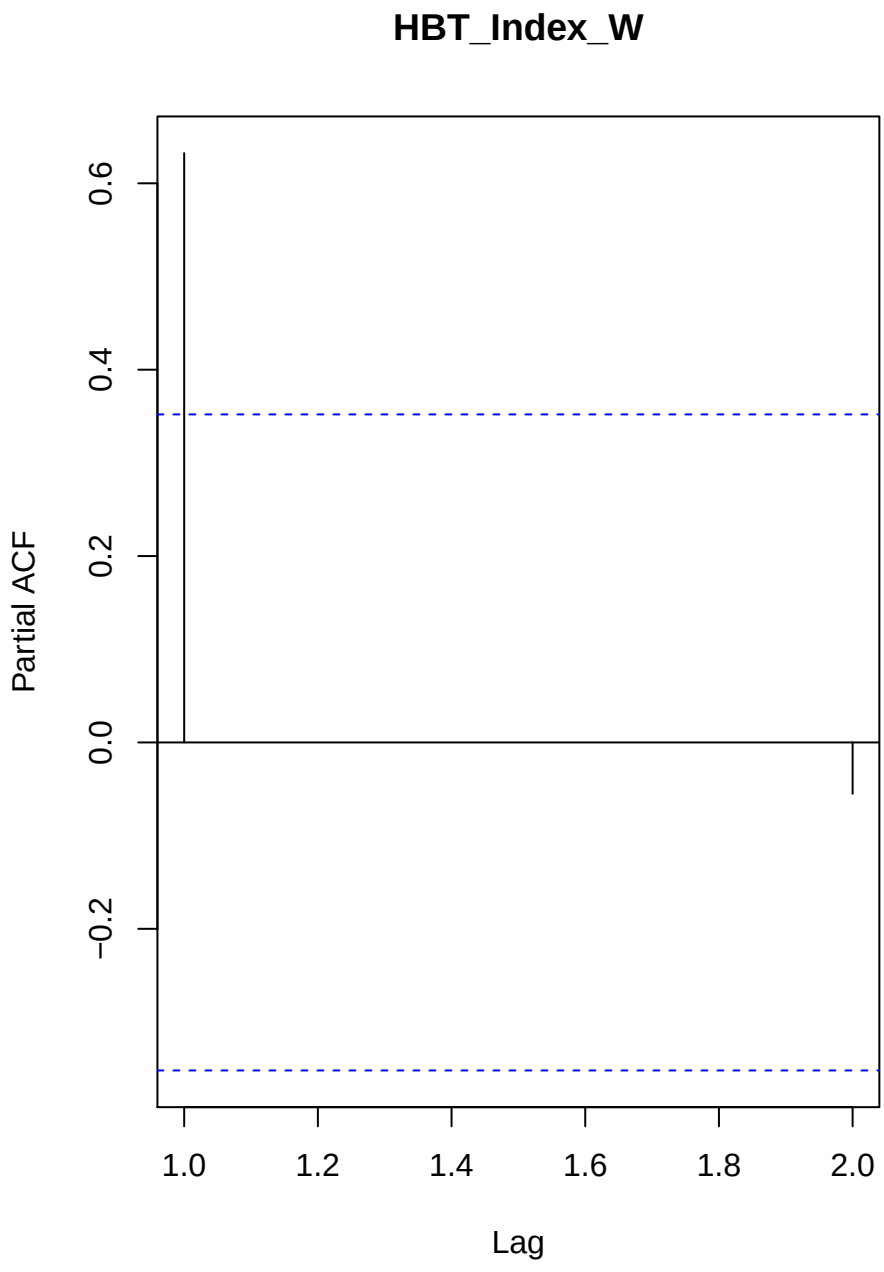

HBT_Index_E
Obs.
Exp.
Index of Abundance
0.5
1.5
2.5
1985
1990
1995
2000
2005
2010
Year


RMSE = 0.484
Deviation
−1.0
−0.5
0.0
0.5
1985
1990
1995
2000
2005
2010
Year

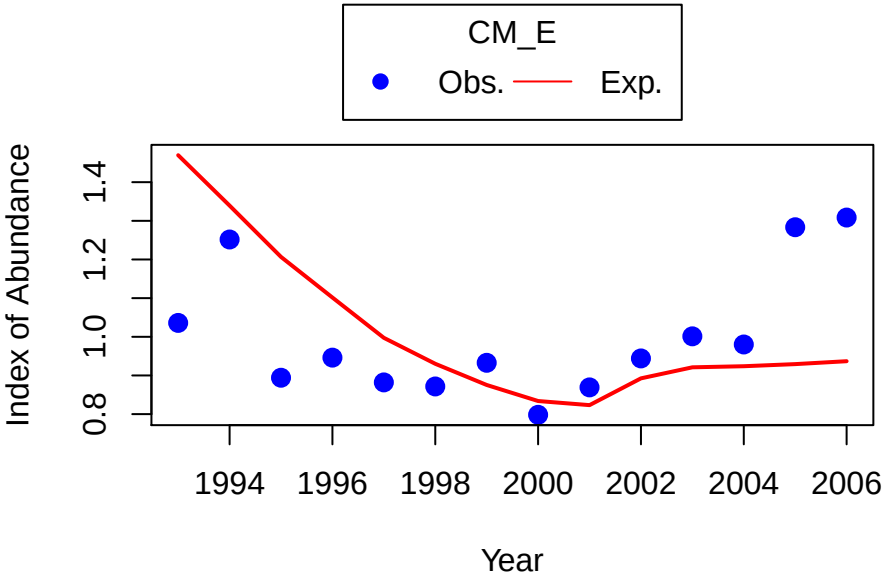

HBT_Index_E
Partial ACF
0.4
0.2
0.0
−0.2
−0.4
1.0
1.2
1.4
1.6
1.8
2.0
Lag

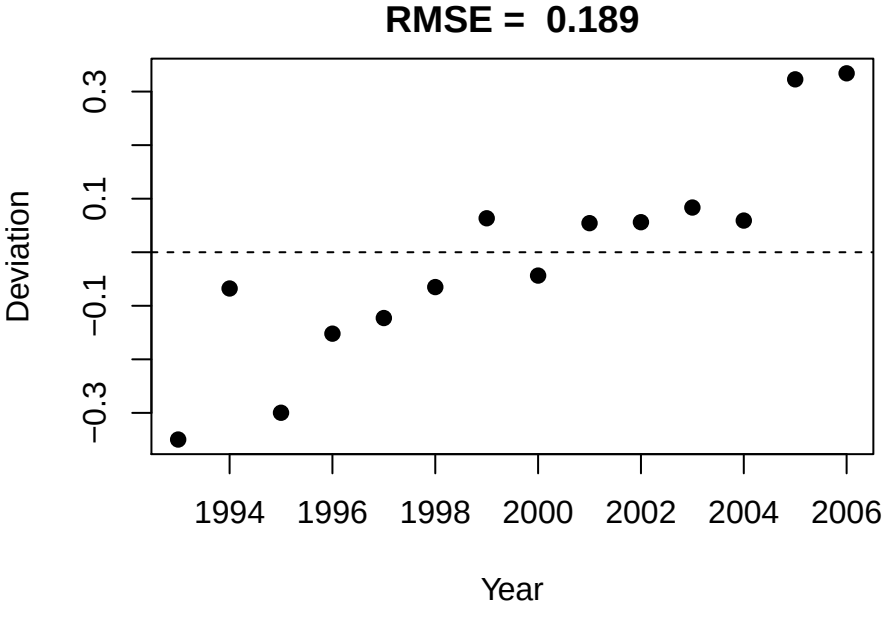

HBT_Index_W
Obs.
Exp.
Index of Abundance
0.5
1.5
2.5
1985
1990
1995
2000
2005
2010
2015
Year

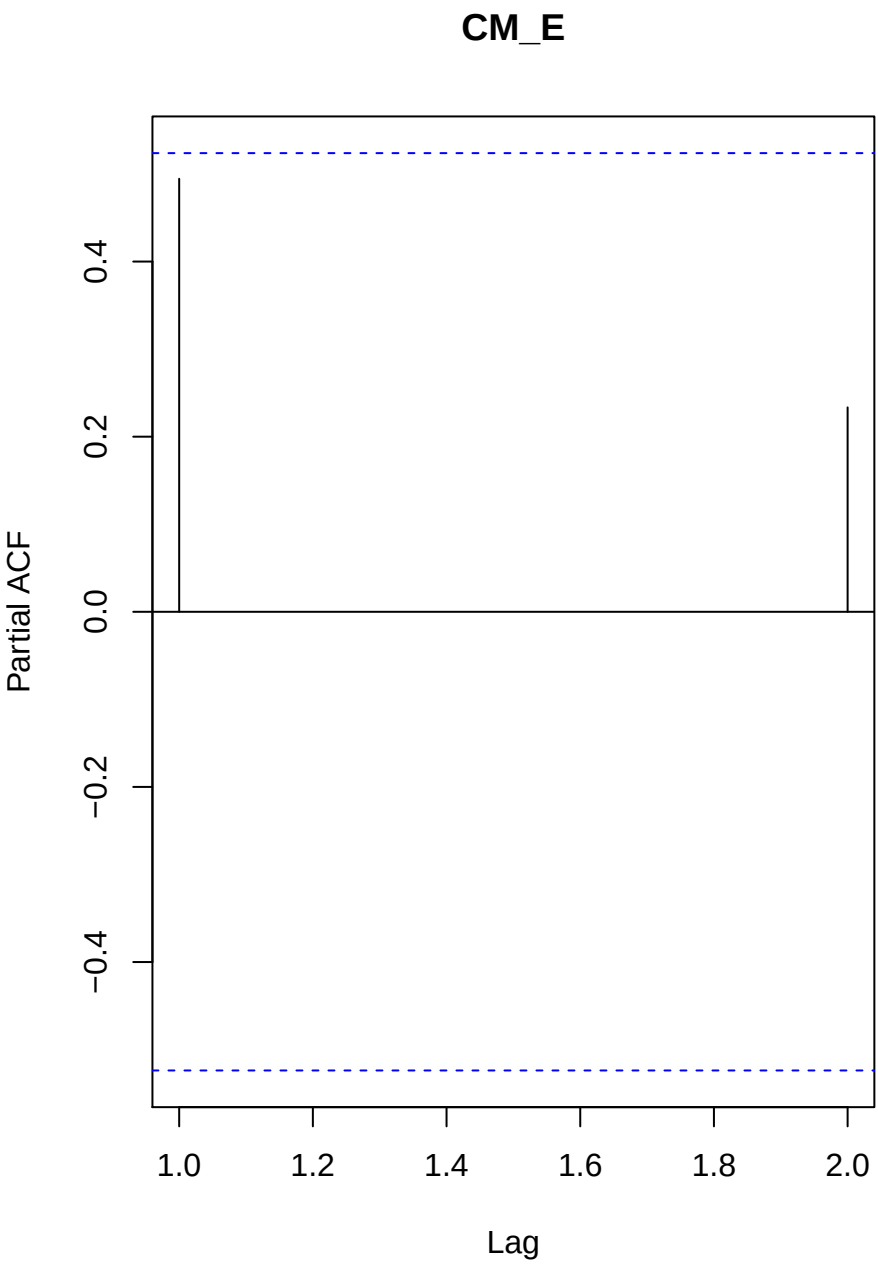

RMSE = 0.324
Deviation
0.2
−0.2
−0.6
1985
1990
1995
2000
2005
2010
2015
Year

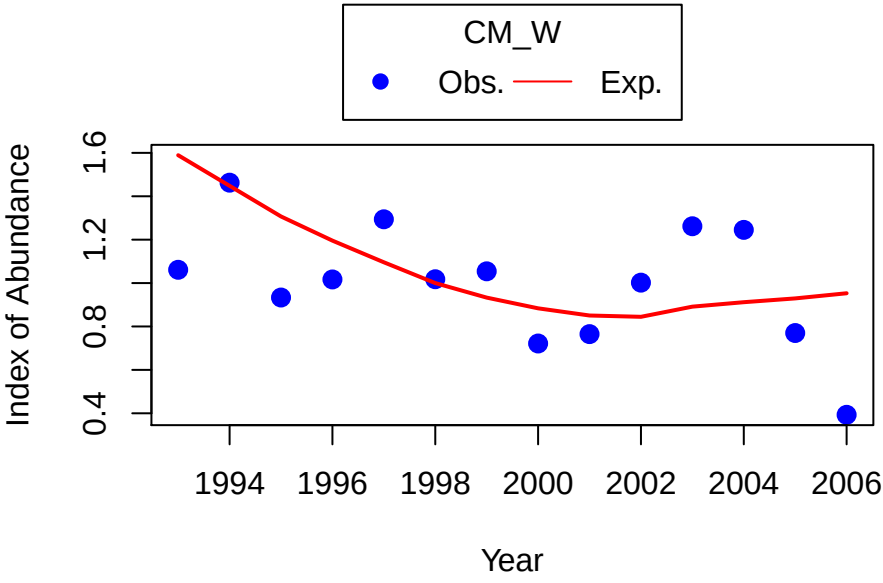

HBT_Index_W
Partial ACF
0.6
0.4
0.2
0.0
−0.2
1.0
1.2
1.4
1.6
1.8
2.0
Lag

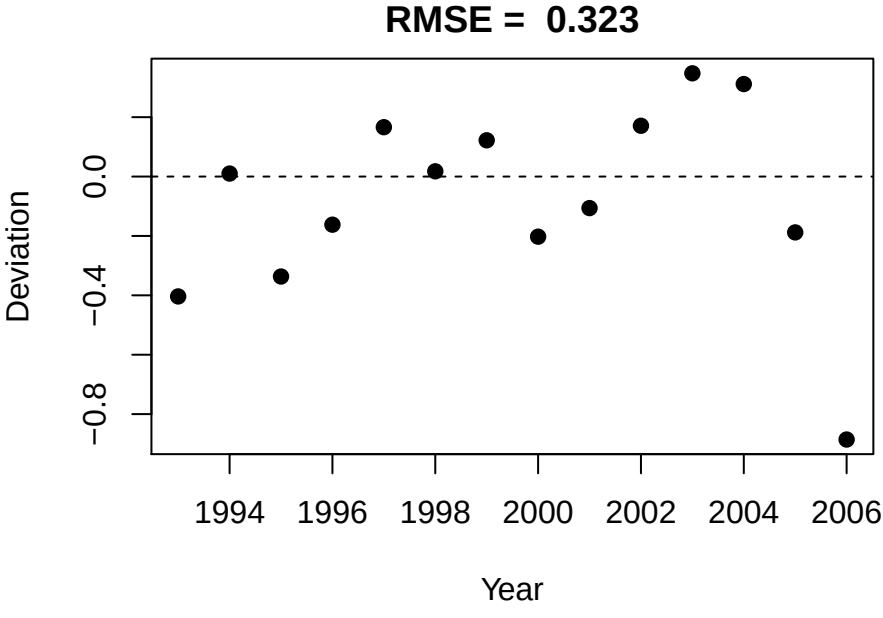
Vermilion Snapper SEDAR 45

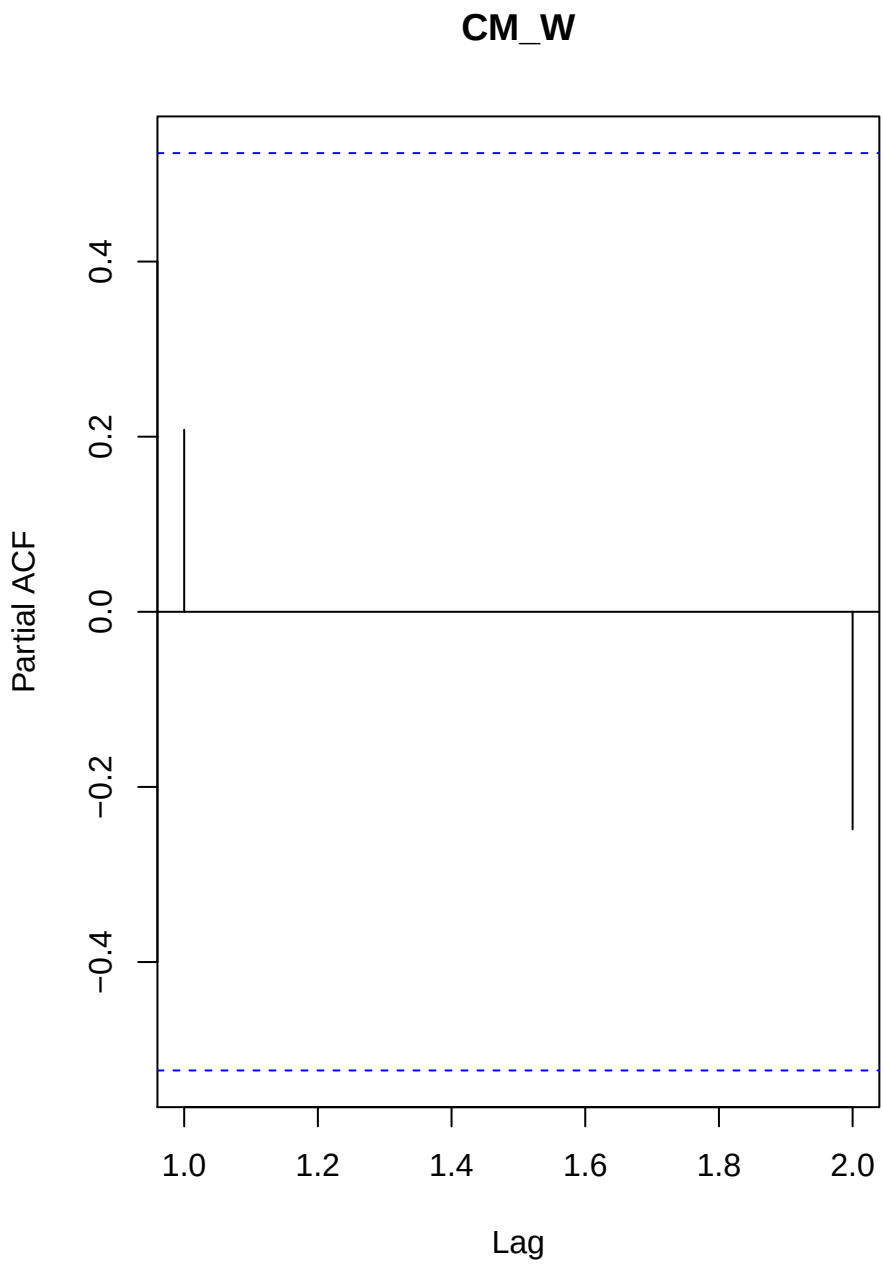

CM_E
Obs.
Exp.
Index of Abundance
0.8
1.0
1.2
1.4
1994
1996
1998
2000
2002
2004
2006
Year

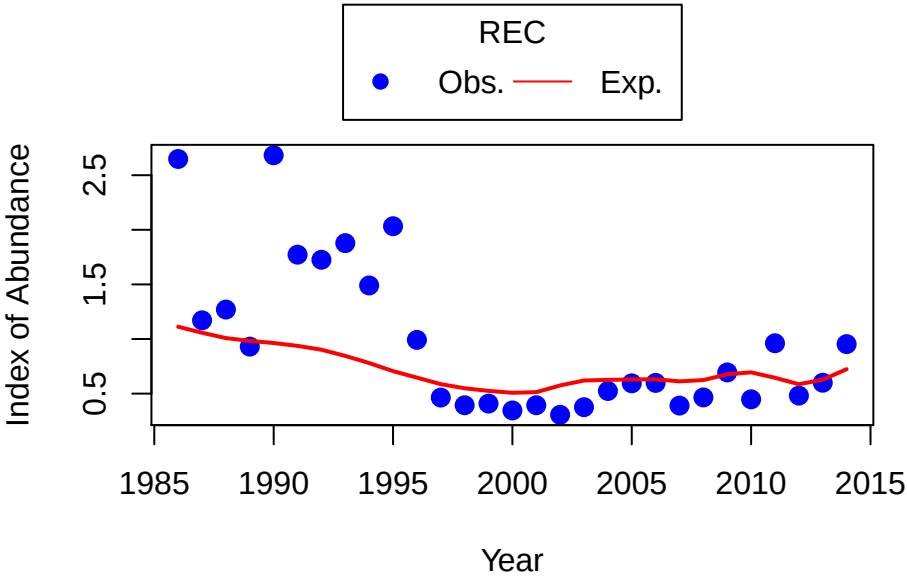

RMSE = 0.189
Deviation
−0.3
−0.1
0.1
0.3
1994
1996
1998
2000
2002
2004
2006
Year

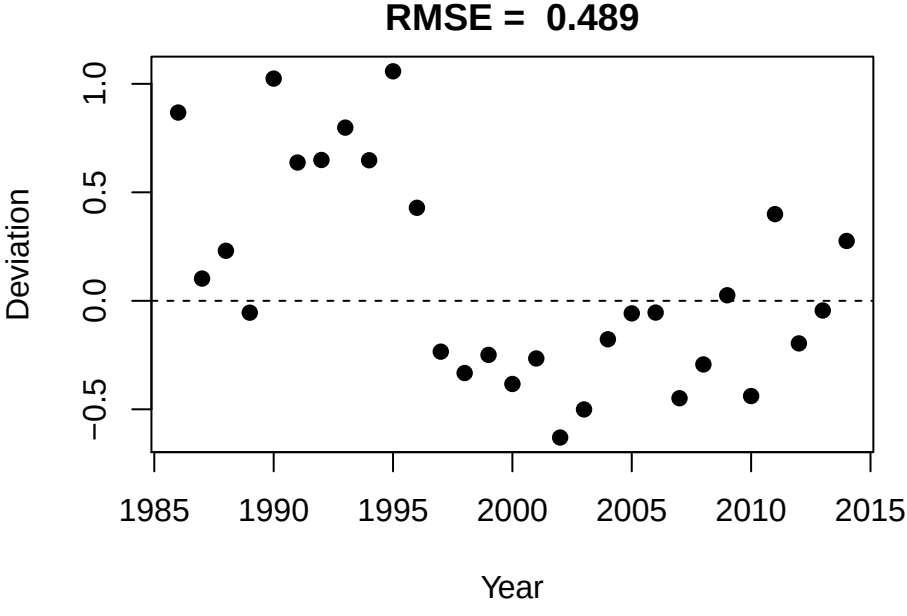

CM_E
Partial ACF
0.4
0.2
0.0
−0.2
−0.4
1.0
1.2
1.4
1.6
1.8
2.0
Lag

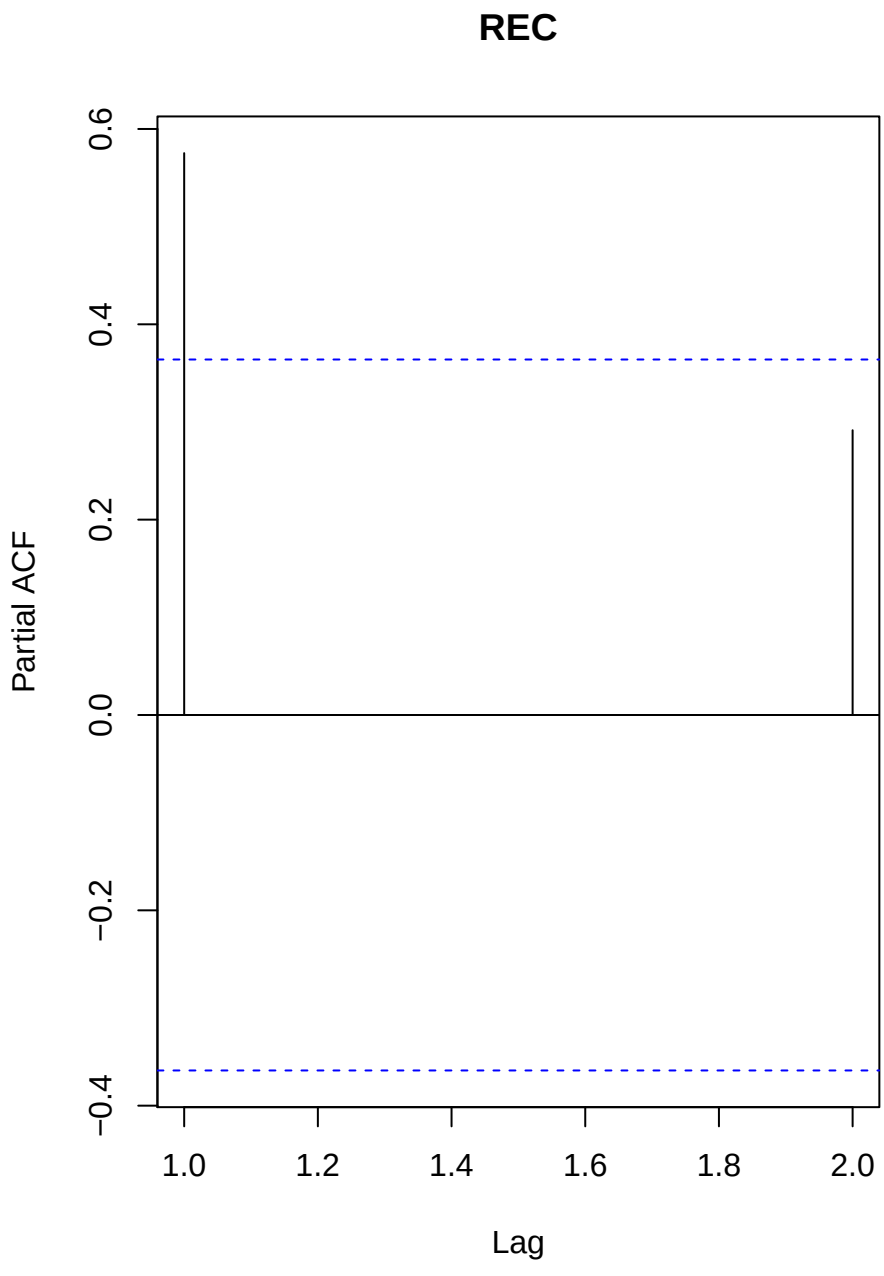

CM_W
Obs.
Exp.
Index of Abundance
0.4
0.8
1.2
1.6
1994
1996
1998
2000
2002
2004
2006
Year

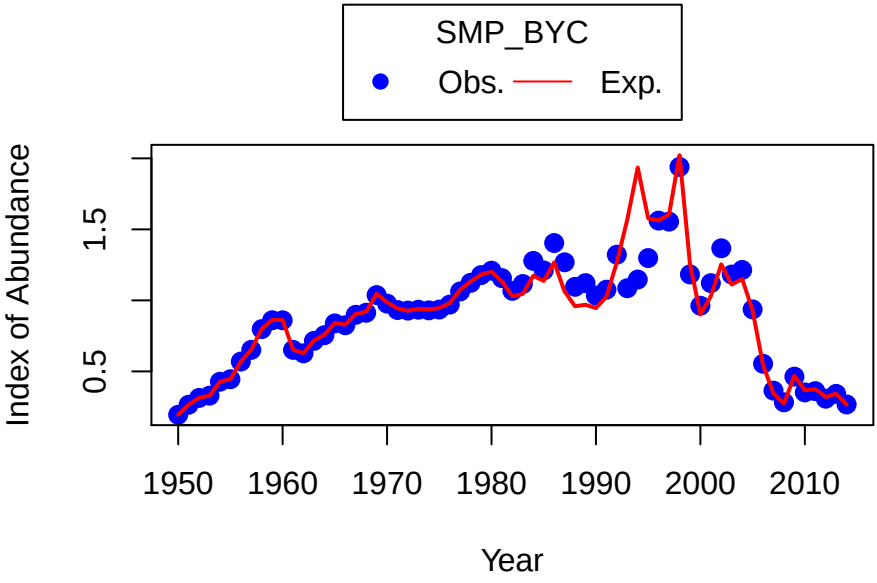

RMSE = 0.323
Deviation
−0.8
−0.4
0.0
1994
1996
1998
2000
2002
2004
2006
Year

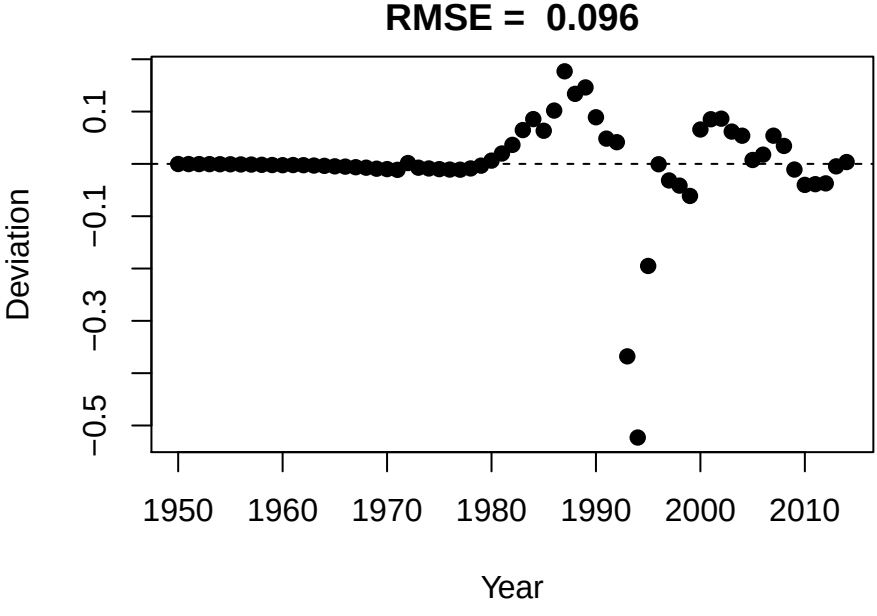

CM_W
Partial ACF
0.4
0.2
0.0
−0.2
−0.4
1.0
1.2
1.4
1.6
1.8
2.0
Lag

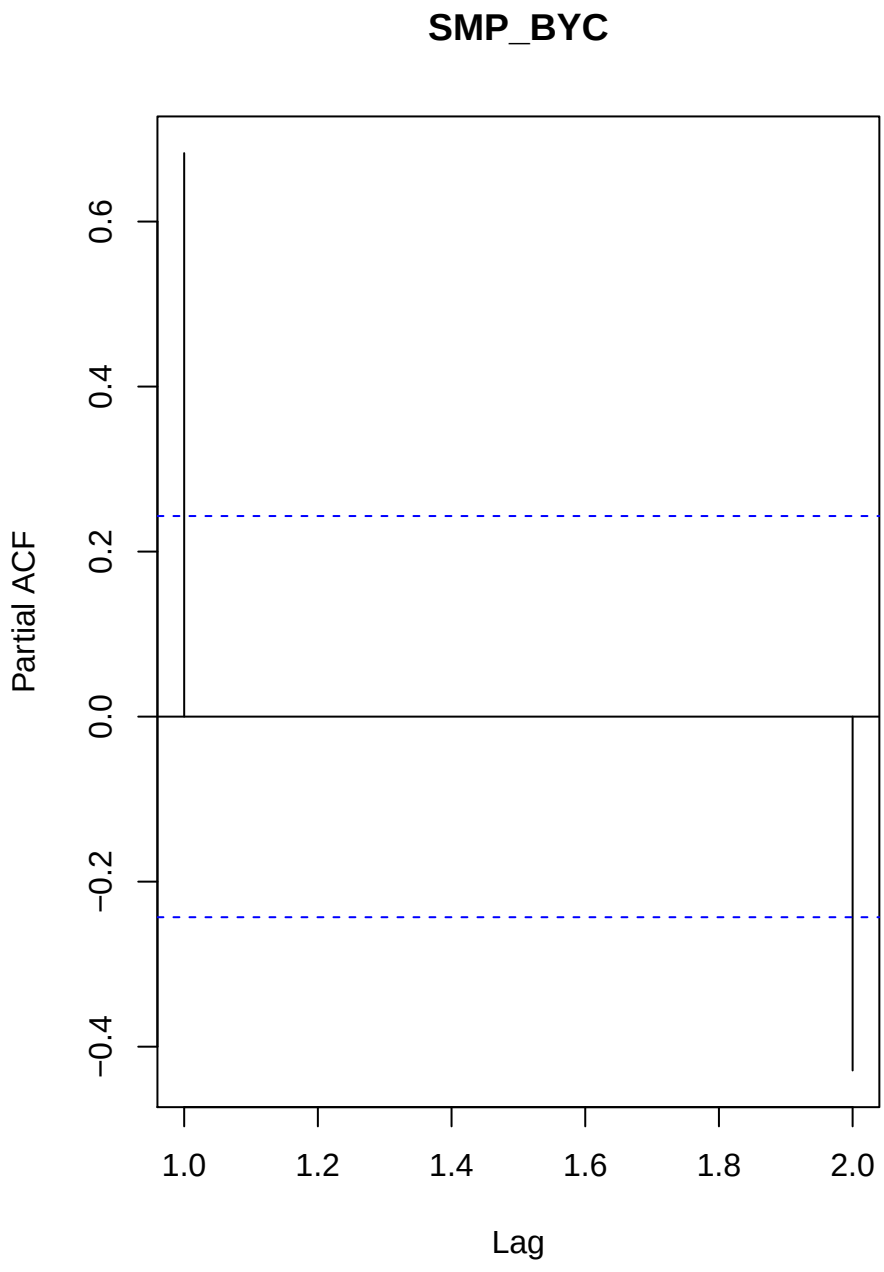

REC
Obs.
Exp.
Index of Abundance
0.5
1.5
2.5
1985
1990
1995
2000
2005
2010
2015
Year

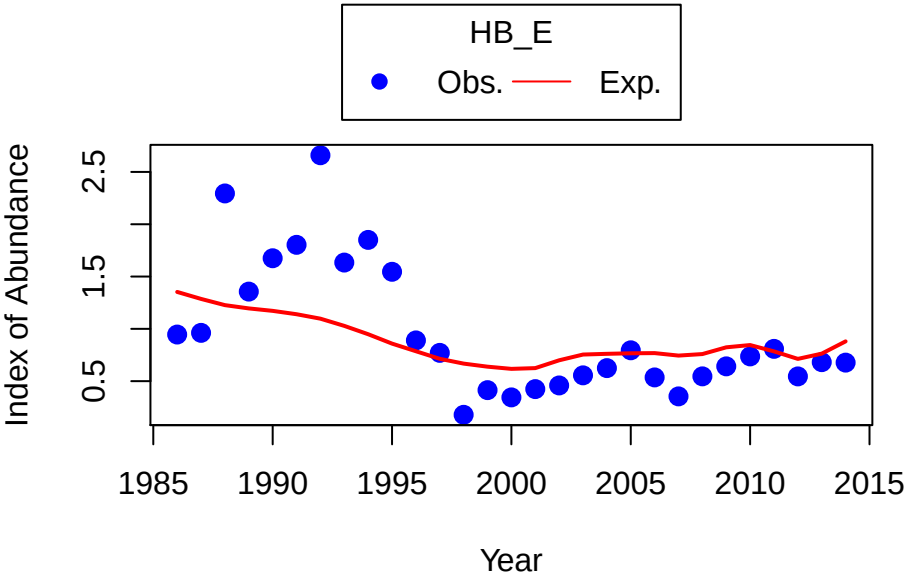

RMSE = 0.489
Deviation
−0.5
0.0
0.5
1.0
1985
1990
1995
2000
2005
2010
2015
Year

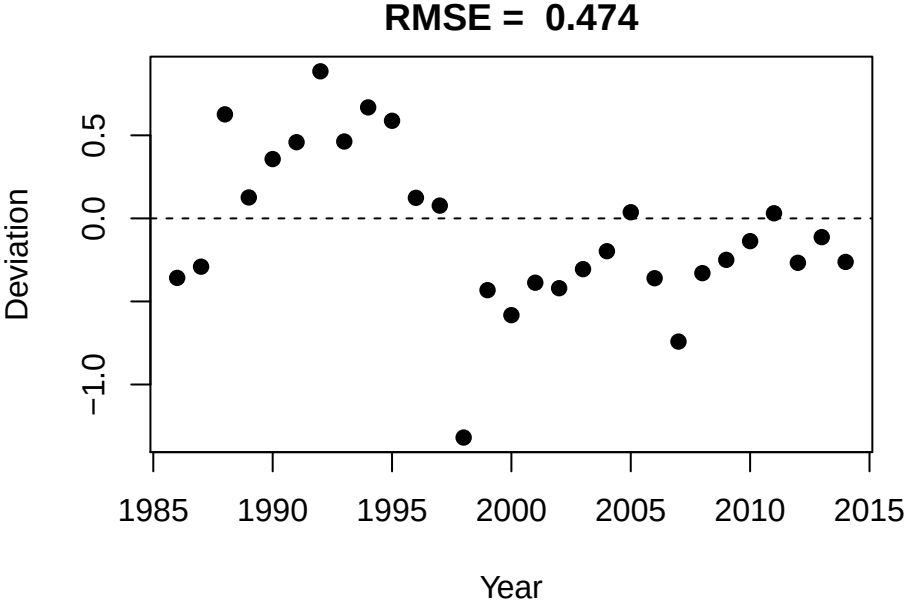

REC
Partial ACF
0.6
0.4
0.2
0.0
−0.2
−0.4
1.0
1.2
1.4
1.6
1.8
2.0
Lag

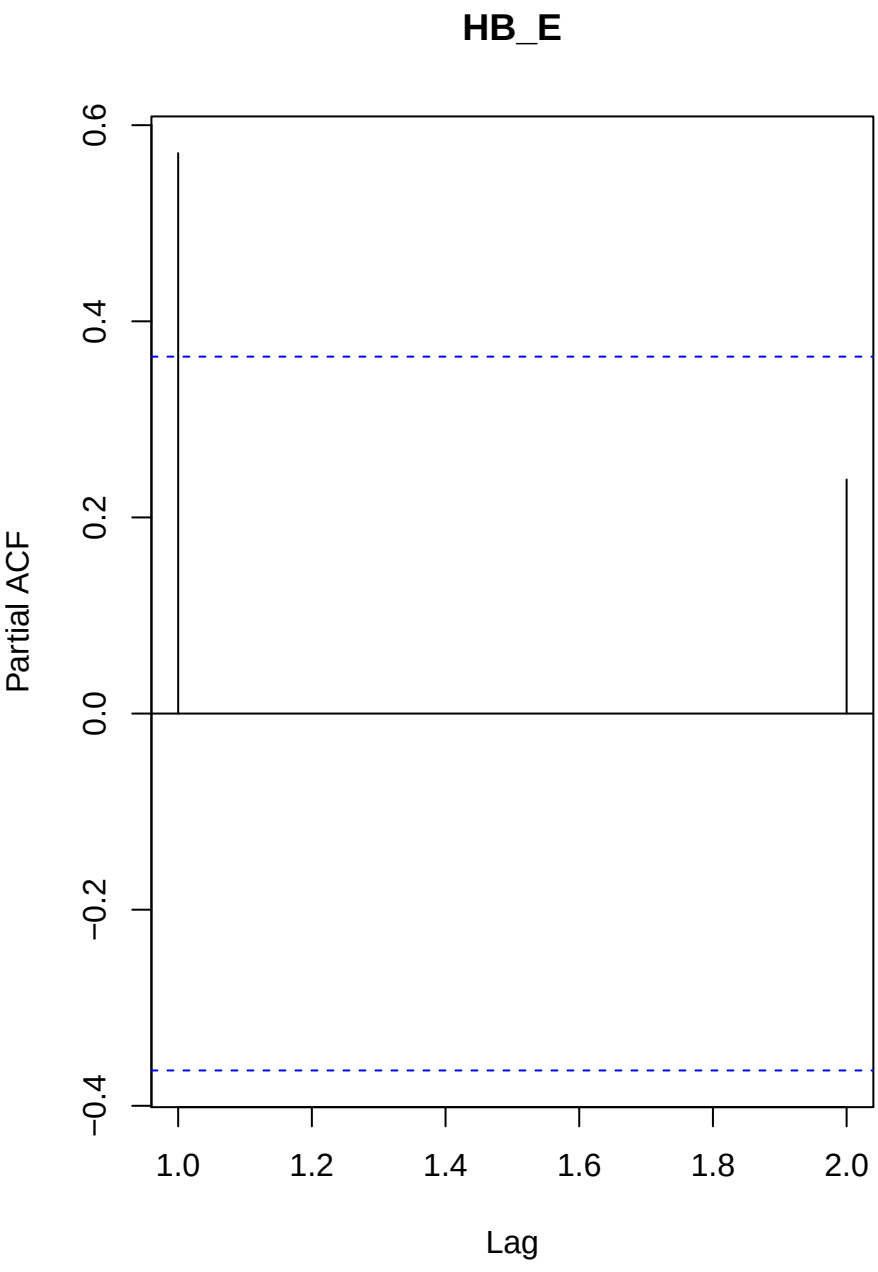

SMP_BYC
Obs.
Exp.
Index of Abundance
0.5
1.5
1950
1960
1970
1980
1990
2000
2010
Year

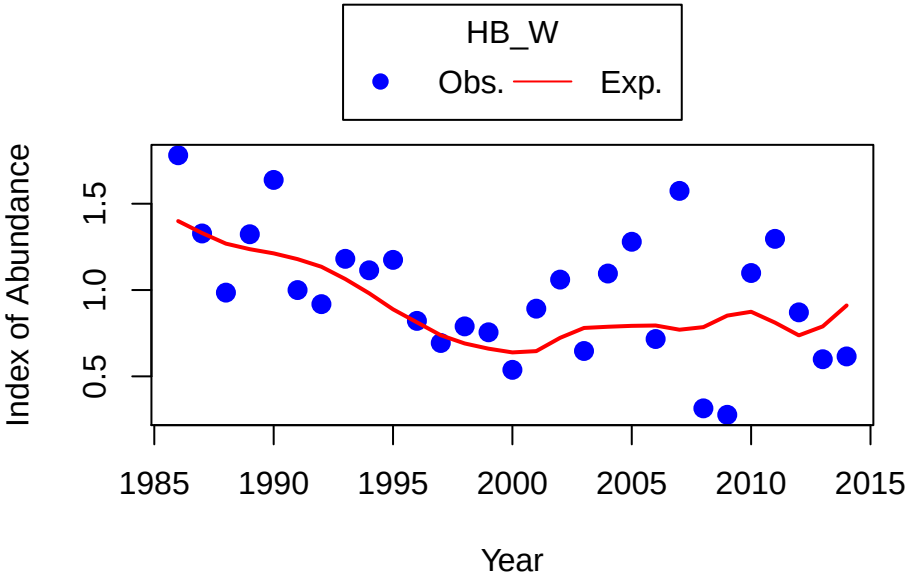

RMSE = 0.096
Deviation
0.1
−0.1
−0.3
−0.5
1950
1960
1970
1980
1990
2000
2010
Year

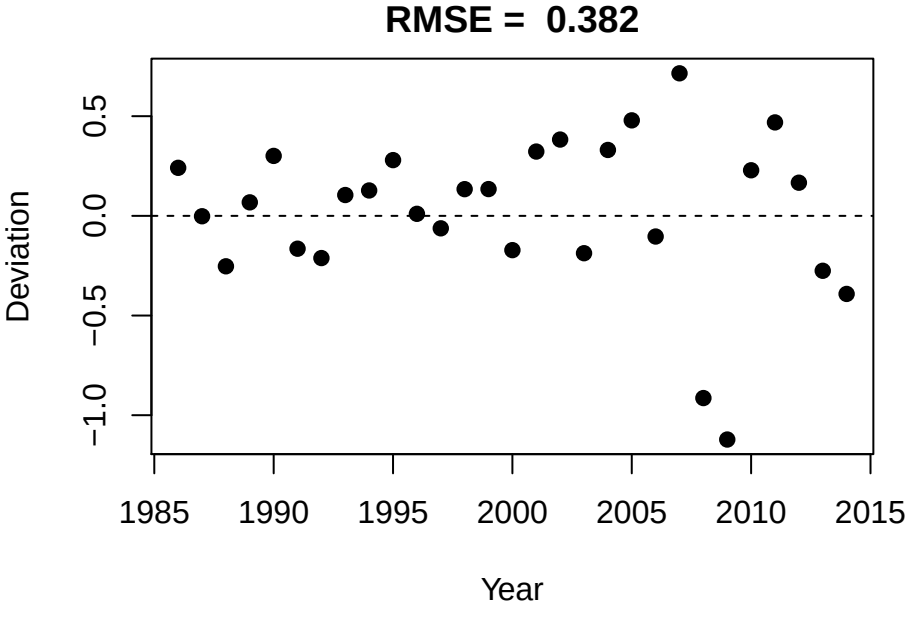

SMP_BYC
Partial ACF
0.6
0.4
0.2
0.0
−0.2
−0.4
1.0
1.2
1.4
1.6
1.8
2.0
Lag

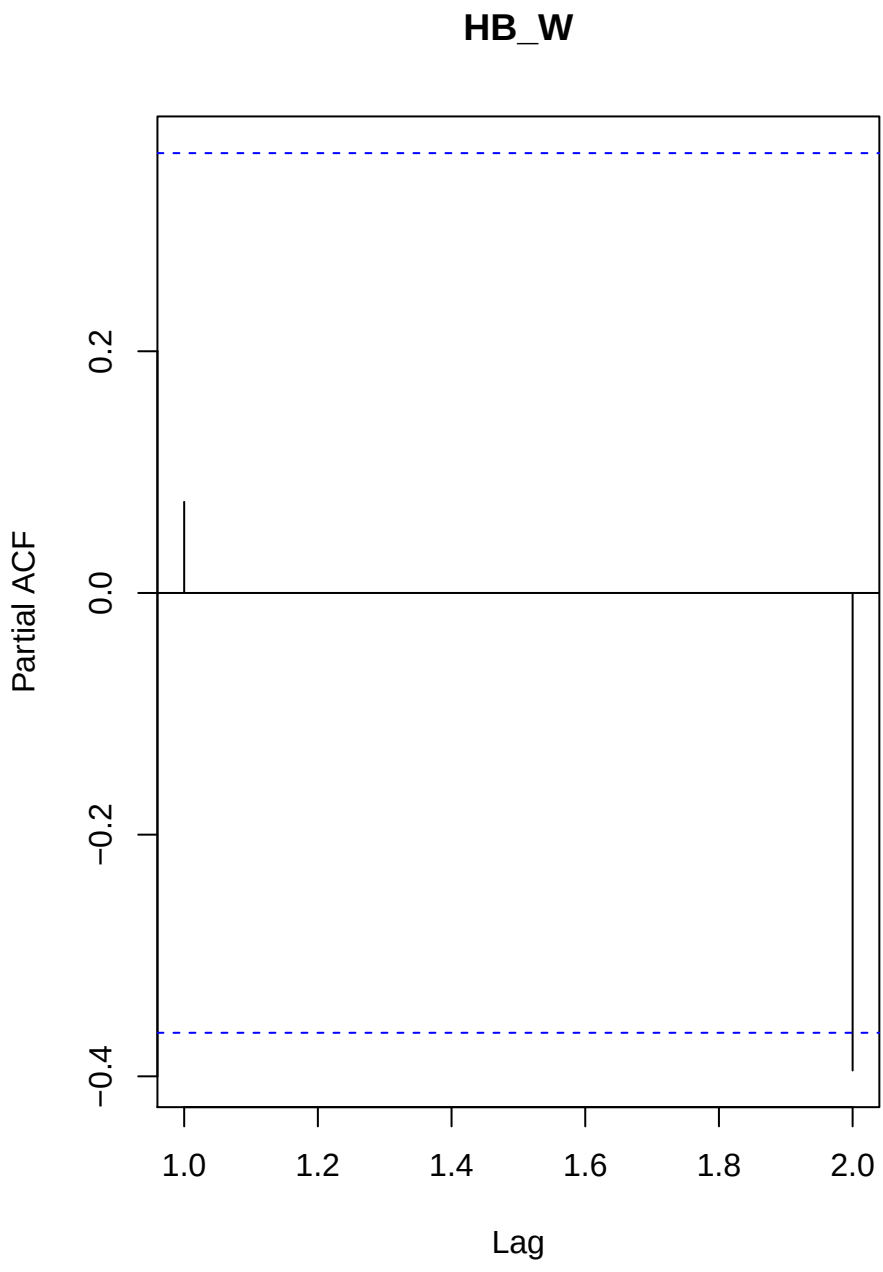

HB_E
Obs.
Exp.
Index of Abundance
0.5
1.5
2.5
1985
1990
1995
2000
2005
2010
2015
Year

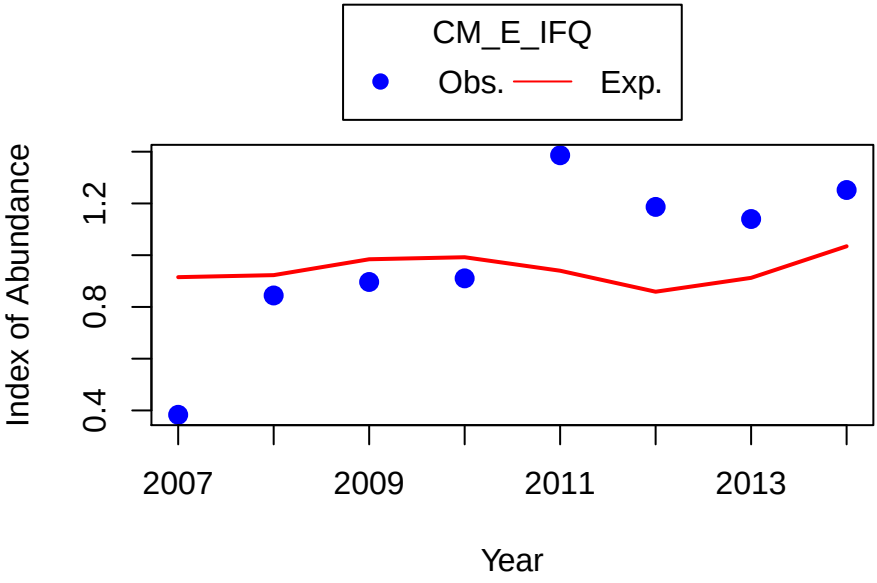

RMSE = 0.474
Deviation
−1.0
0.0
0.5
1985
1990
1995
2000
2005
2010
2015
Year

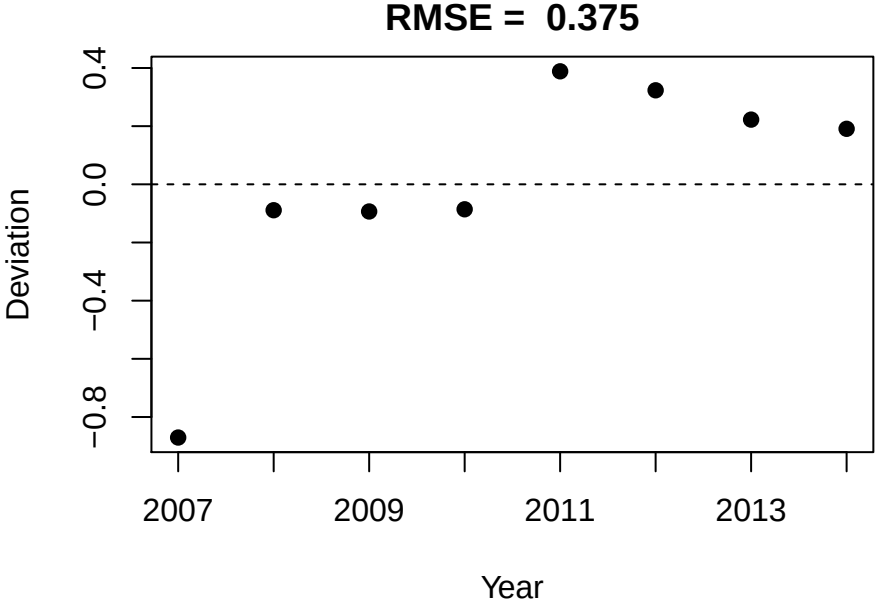

HB_E
Partial ACF
0.6
0.4
0.2
0.0
−0.2
−0.4
1.0
1.2
1.4
1.6
1.8
2.0
Lag

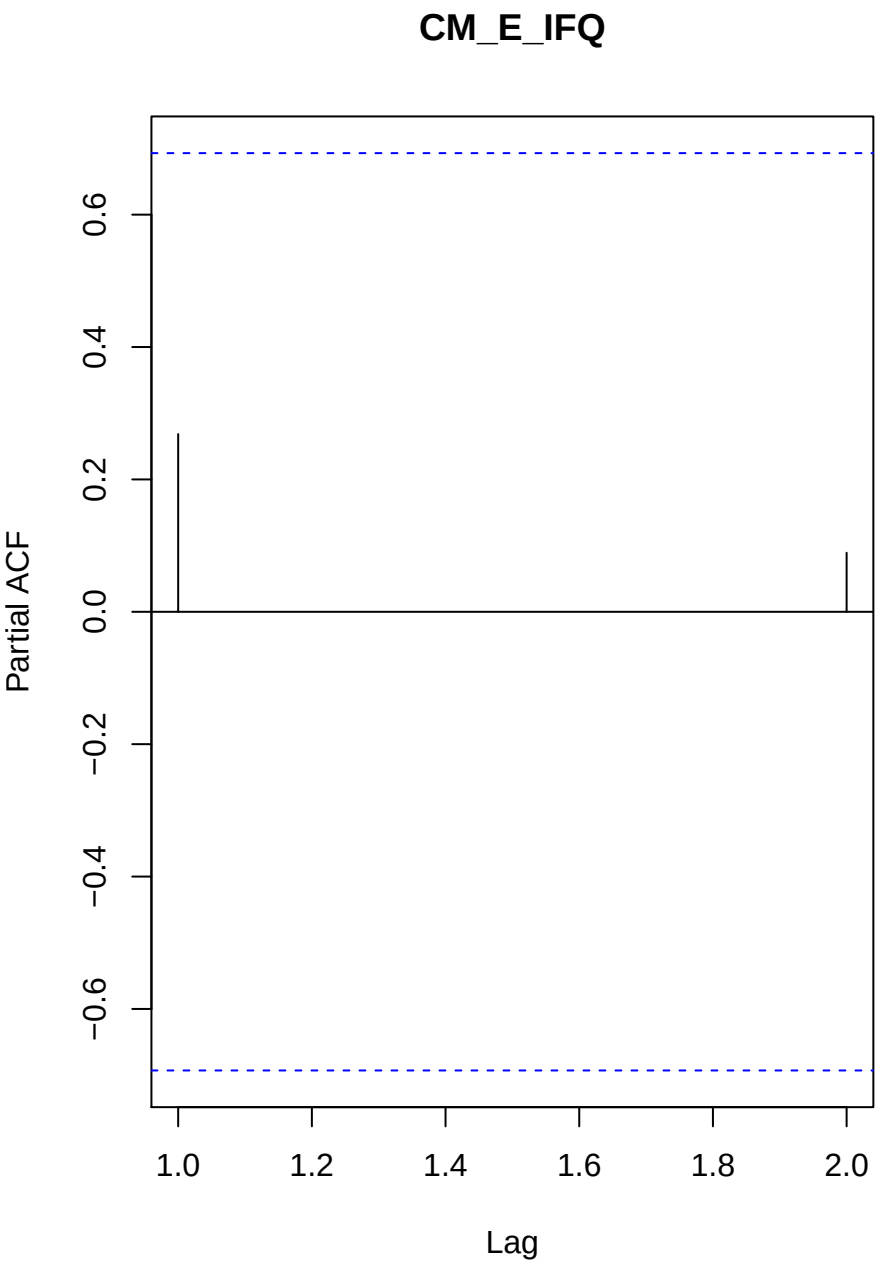

HB_W
Obs.
Exp.
Index of Abundance
0.5
1.0
1.5
1985
1990
1995
2000
2005
2010
2015
Year

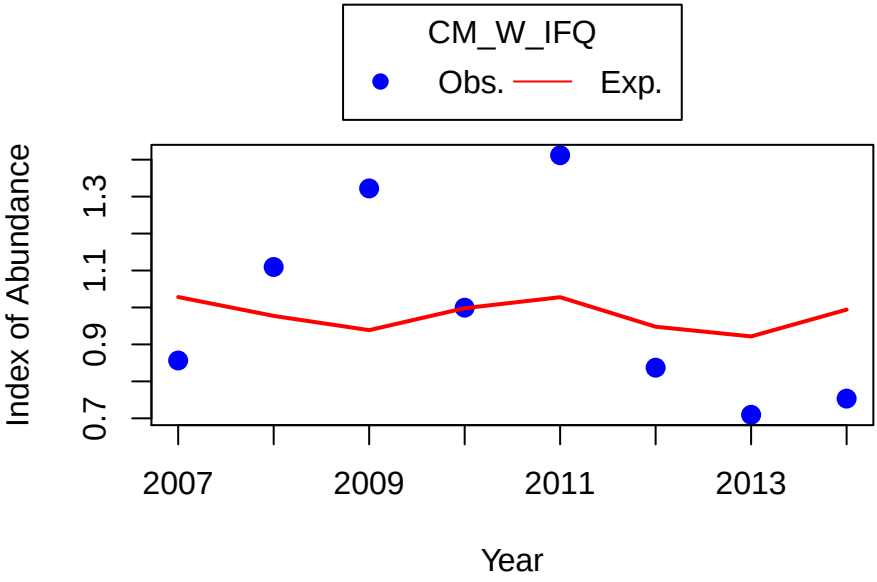

RMSE = 0.382
Deviation
−1.0
−0.5
0.0
0.5
1985
1990
1995
2000
2005
2010
2015
Year

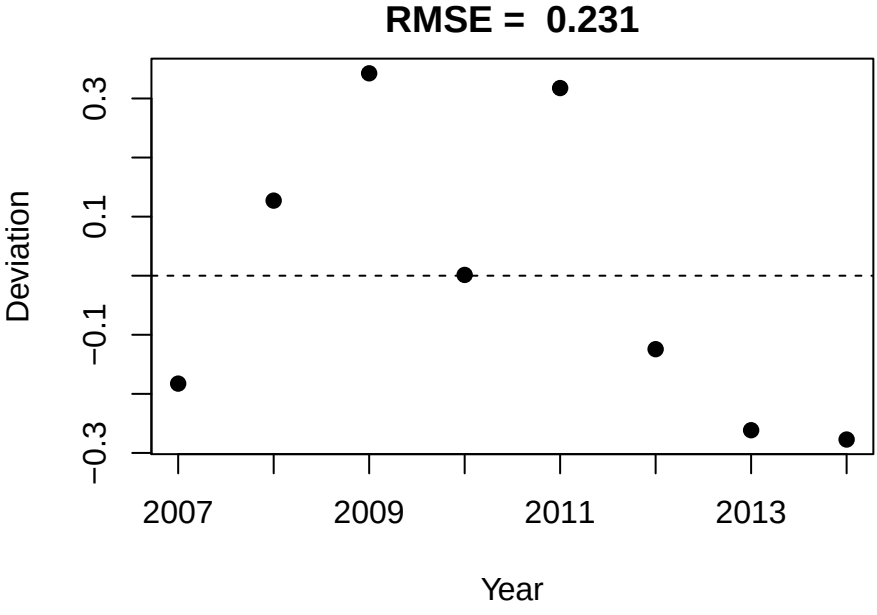

HB_W
Partial ACF
0.2
0.0
−0.2
−0.4
1.0
1.2
1.4
1.6
1.8
2.0
Lag

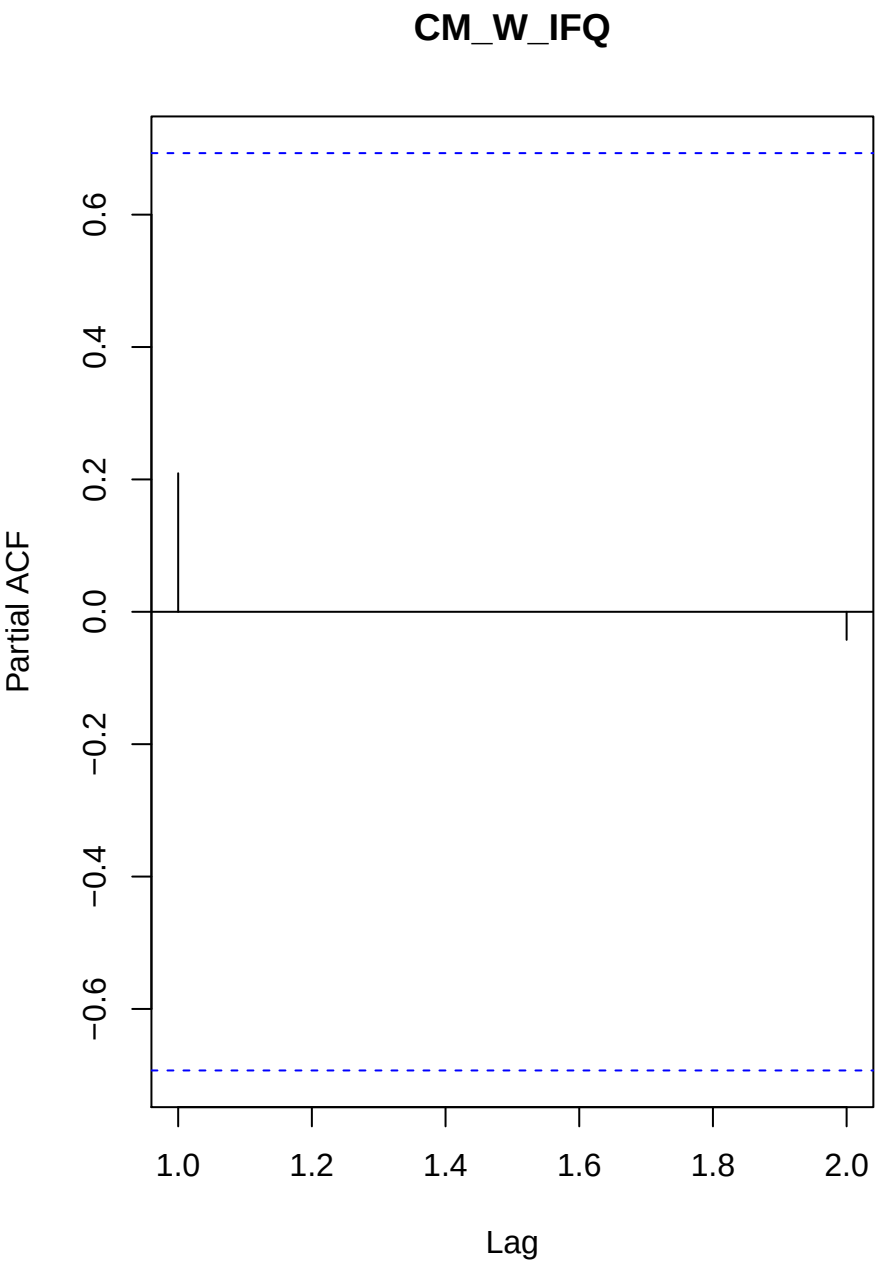

CM_E_IFQ
Obs.
Exp.
Index of Abundance
0.4
0.8
1.2
2007
2009
2011
2013
Year

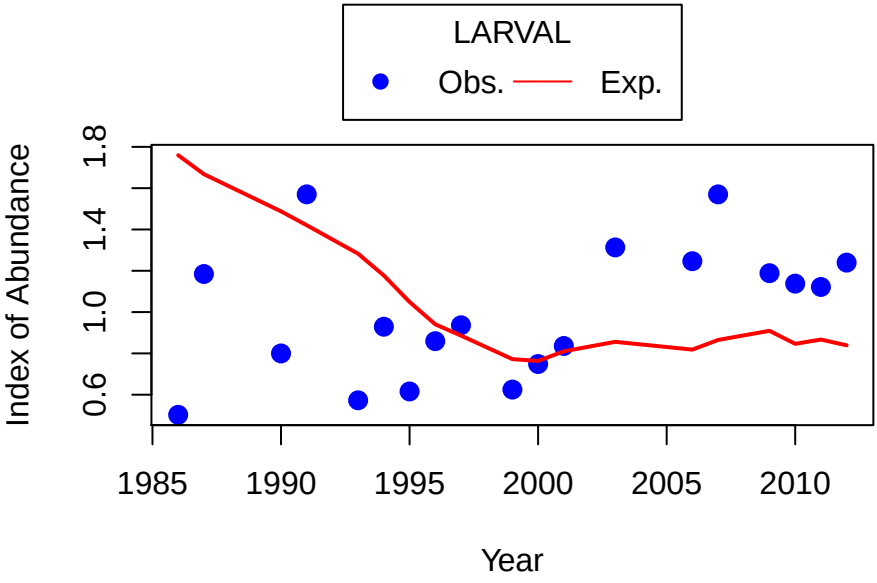

RMSE = 0.375
Deviation
−0.8
−0.4
0.0
0.4
2007
2009
2011
2013
Year

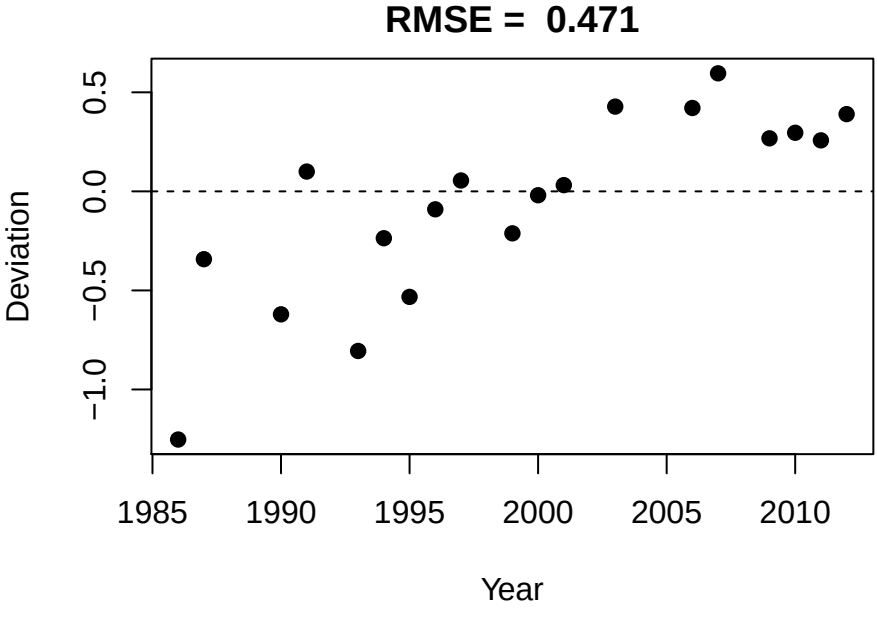

CM_E_IFQ
Partial ACF
0.6
0.4
0.2
0.0
−0.2
−0.4
−0.6
1.0
1.2
1.4
1.6
1.8
2.0
Lag

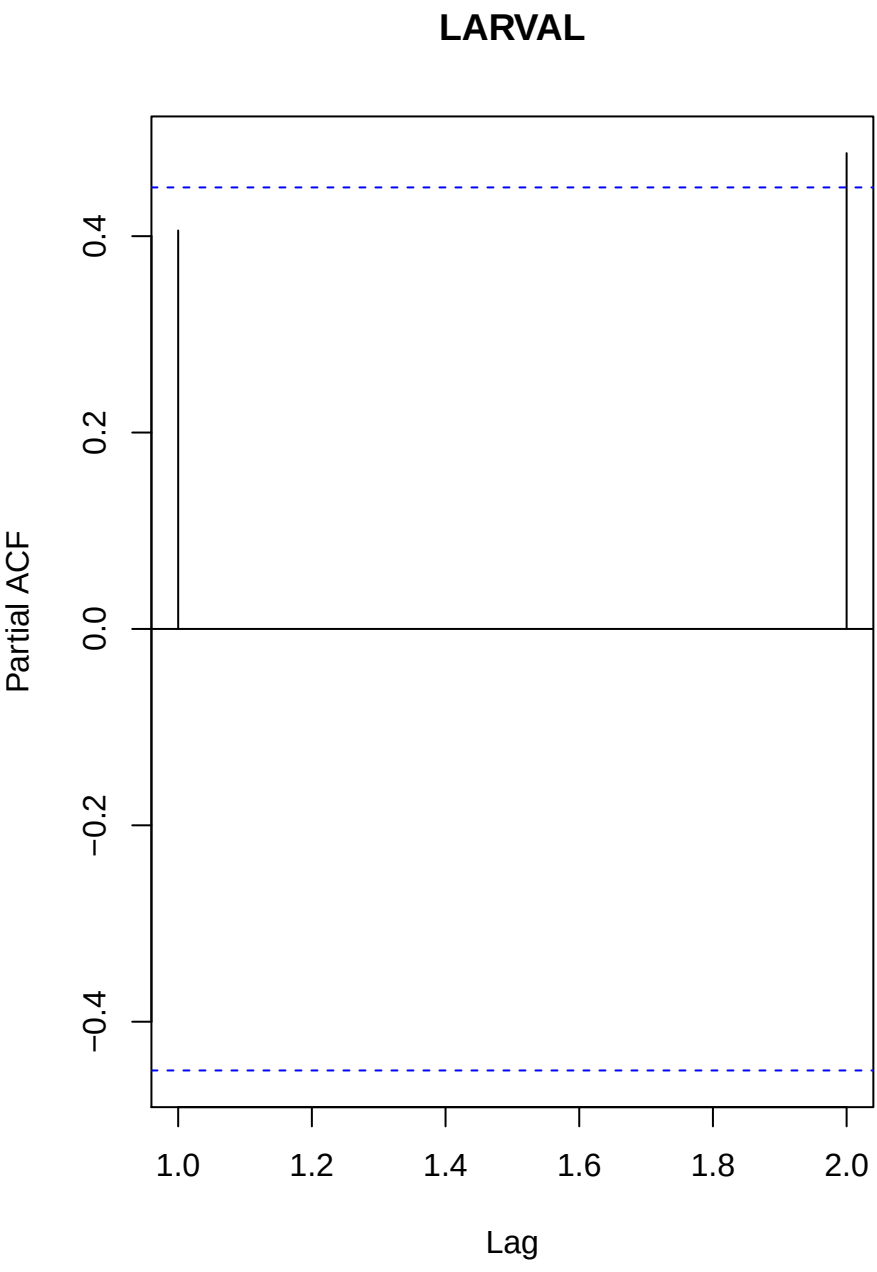

CM_W_IFQ
Obs.
Exp.
Index of Abundance
0.7
0.9
1.1
1.3
2007
2009
2011
2013
Year

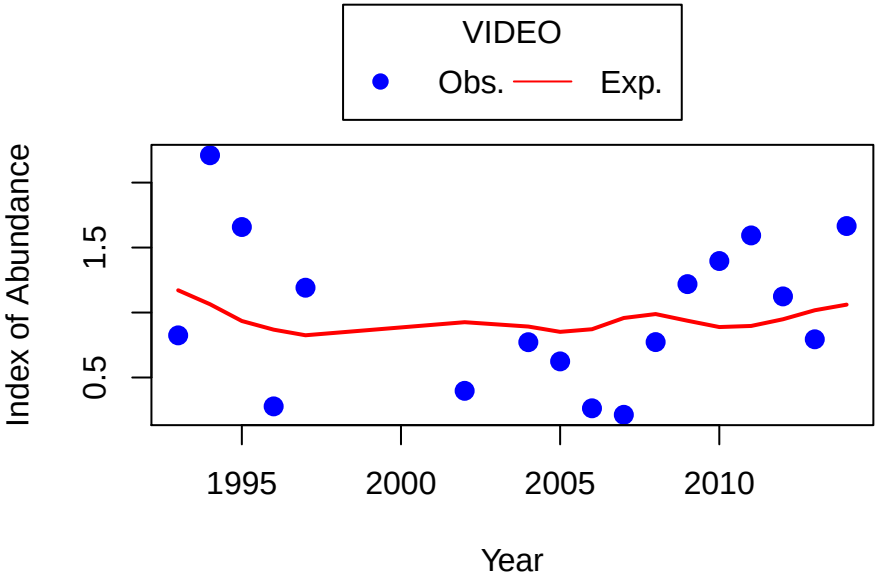

RMSE = 0.231
Deviation
−0.3
−0.1
0.1
0.3
2007
2009
2011
2013
Year

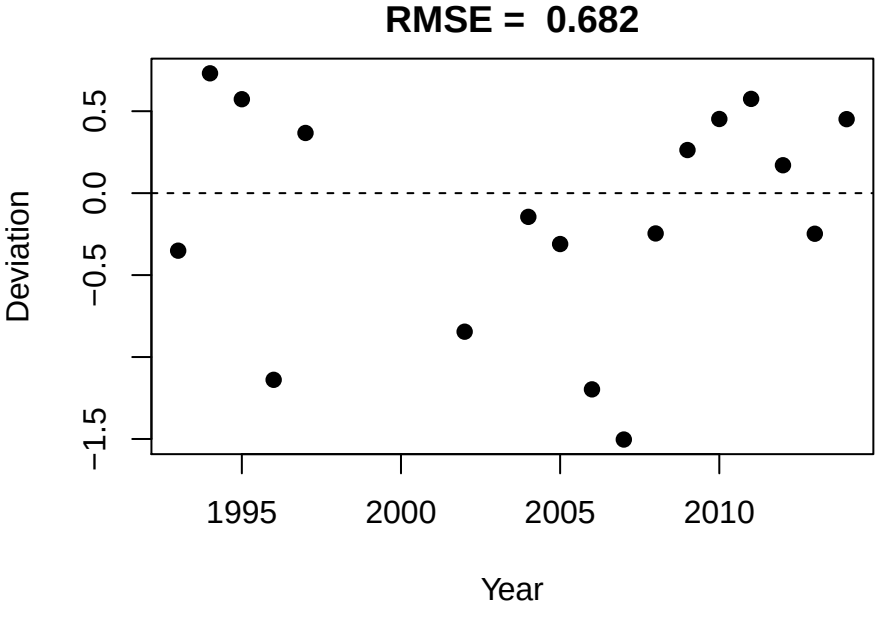

CM_W_IFQ
Partial ACF
0.6
0.4
0.2
0.0
−0.2
−0.4
−0.6
1.0
1.2
1.4
1.6
1.8
2.0
Lag

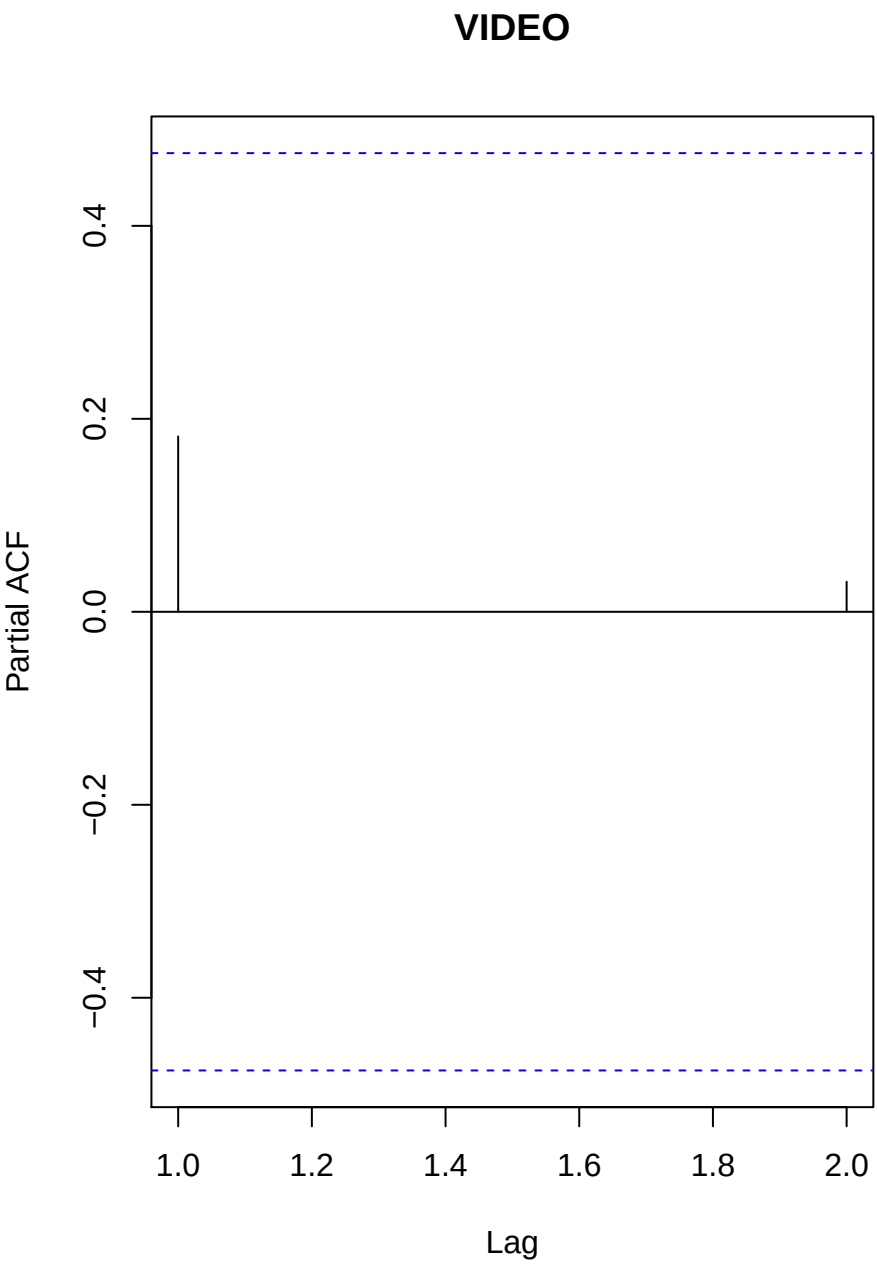

LARVAL
Obs.
Exp.
Index of Abundance
0.6
1.0
1.4
1.8
1985
1990
1995
2000
2005
2010
Year

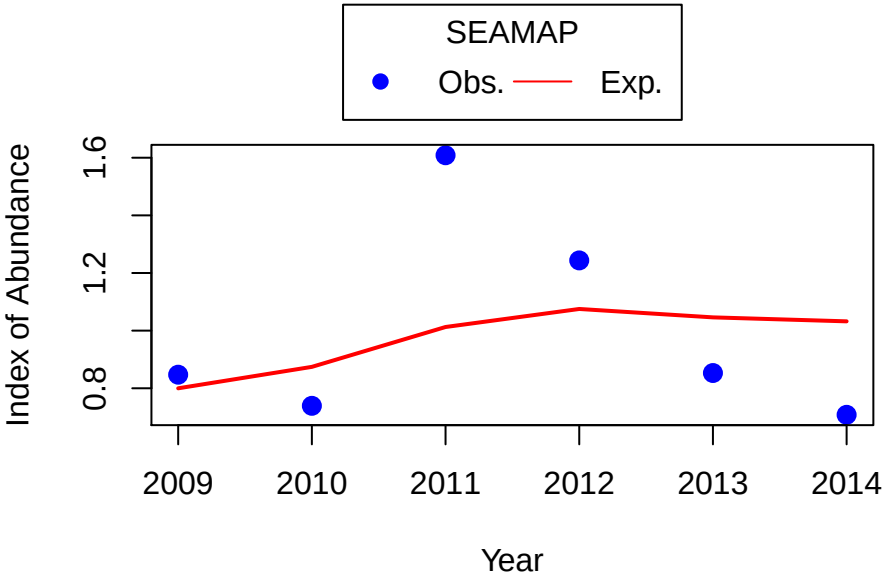

RMSE = 0.471
Deviation
−1.0
−0.5
0.0
0.5
1985
1990
1995
2000
2005
2010
Year

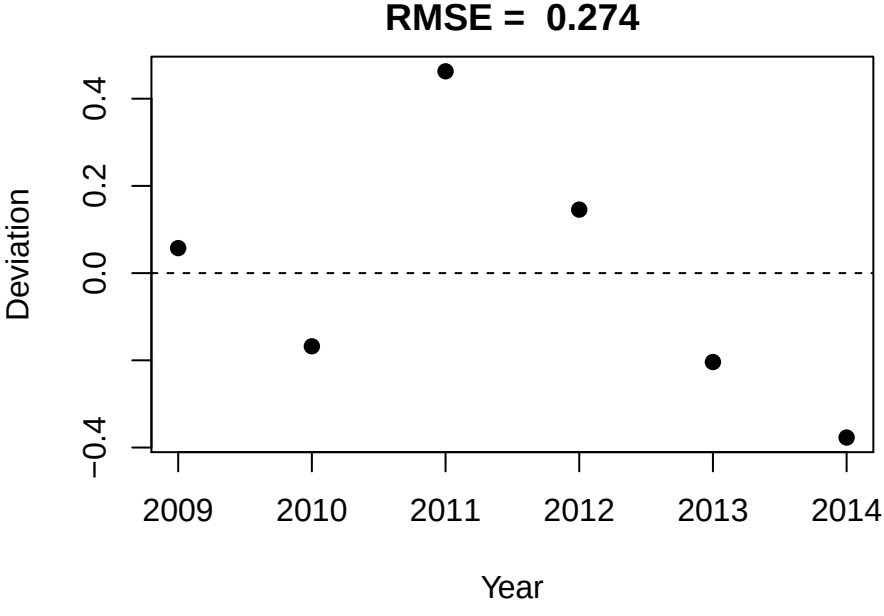

LARVAL
Partial ACF
0.4
0.2
0.0
−0.2
−0.4
1.0
1.2
1.4
1.6
1.8
2.0
Lag

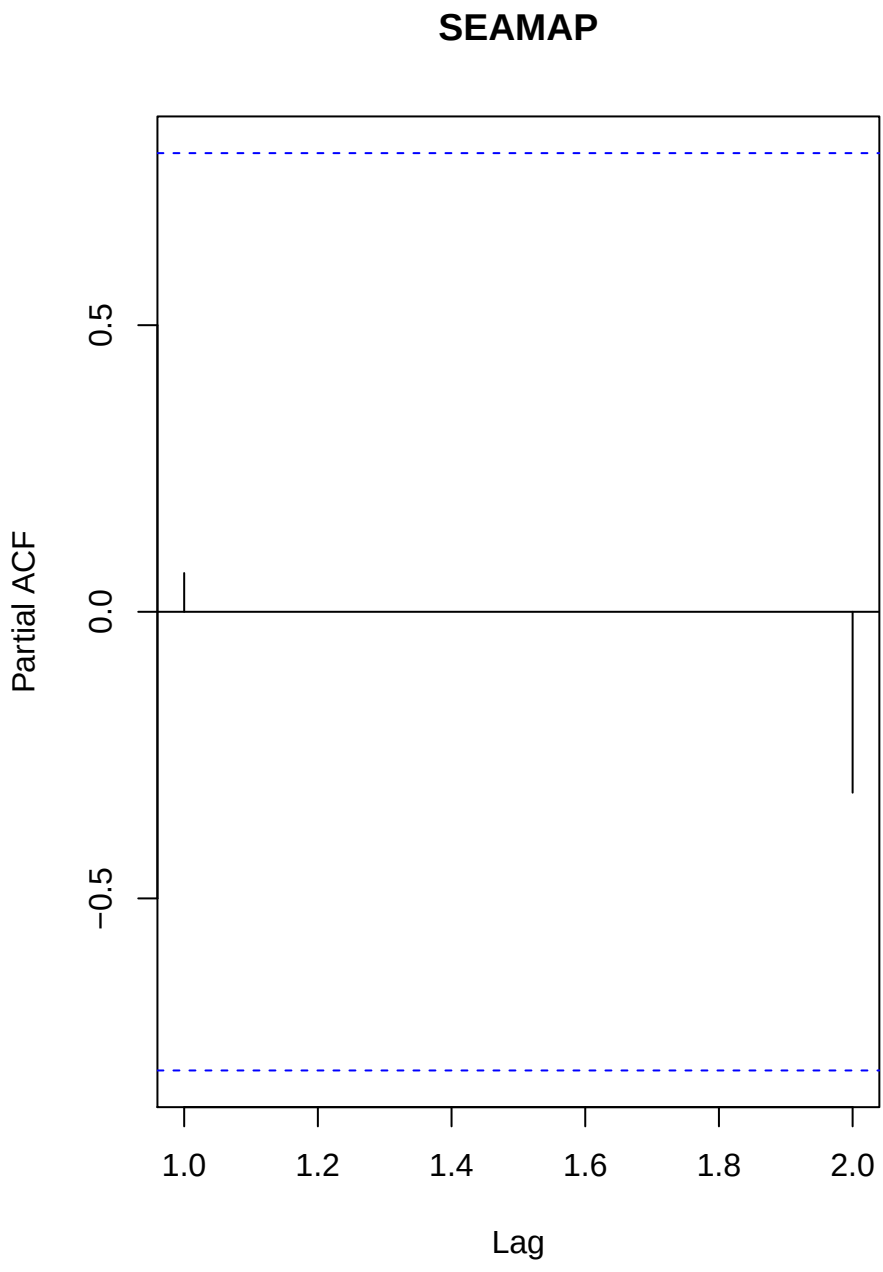

VIDEO
Obs.
Exp.
Index of Abundance
0.5
1.5
1995
2000
2005
2010
Year


RMSE = 0.682
Deviation
−1.5
−0.5
0.0
0.5
1995
2000
2005
2010
Year

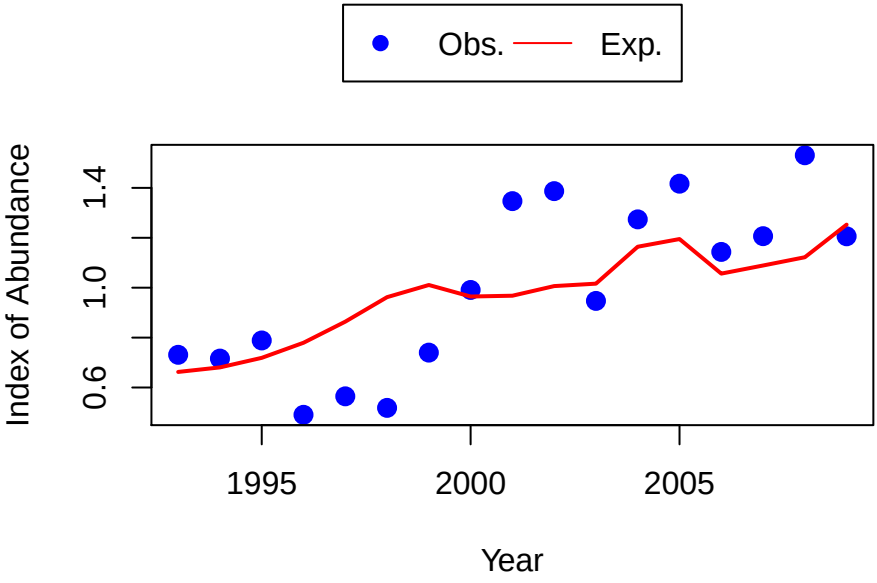

VIDEO
Partial ACF
0.4
0.2
0.0
−0.2
−0.4
1.0
1.2
1.4
1.6
1.8
2.0
Lag

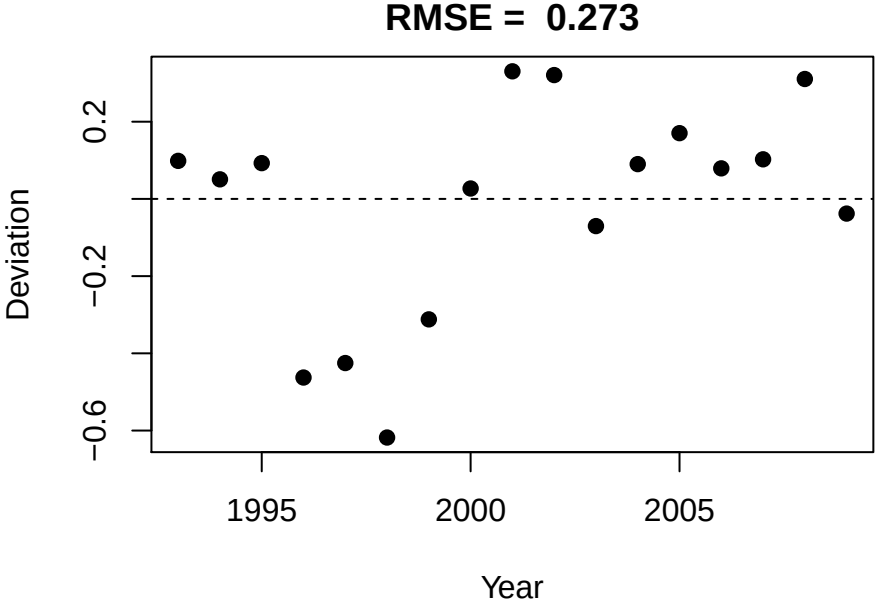

SEAMAP
Obs.
Exp.
Index of Abundance
0.8
1.2
1.6
2009
2010
2011
2012
2013
2014
Year

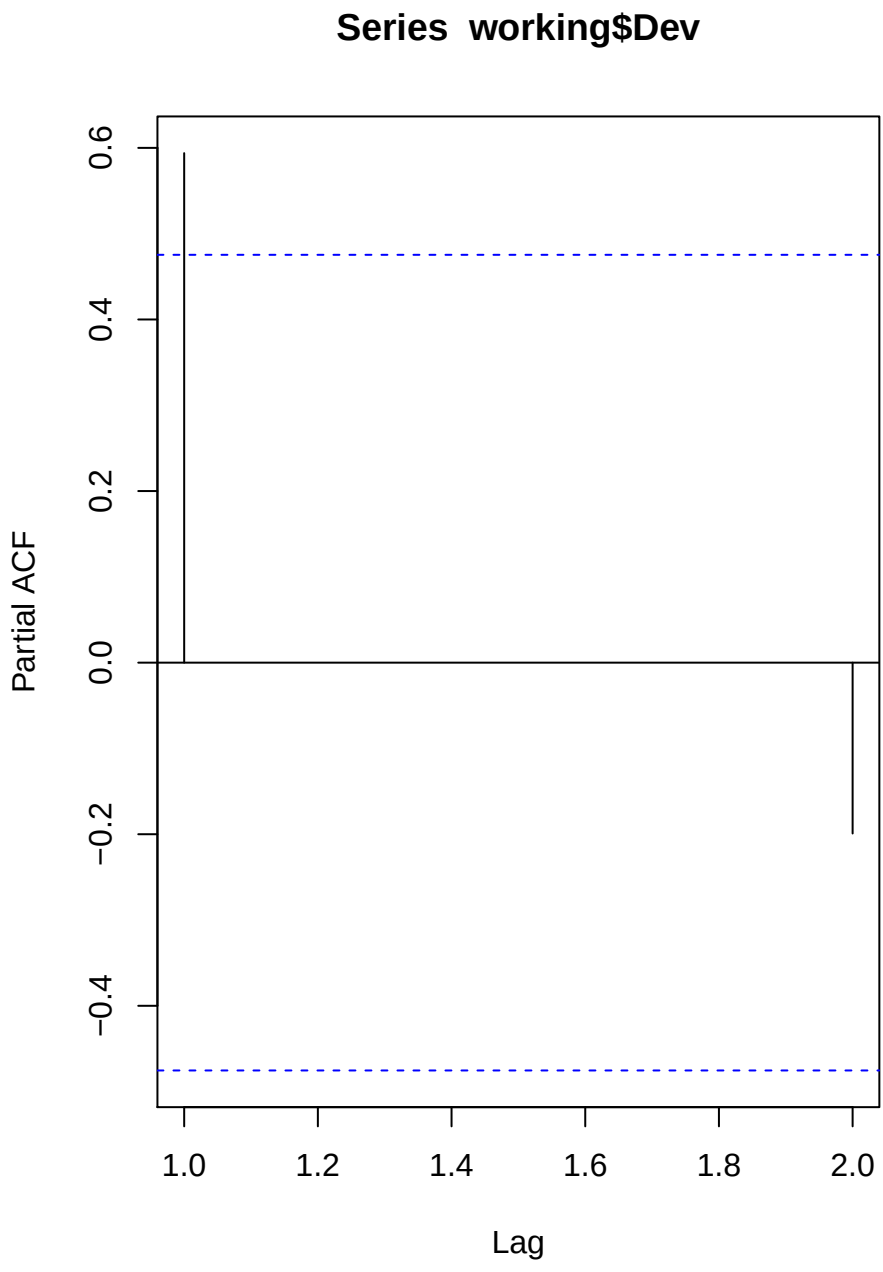

RMSE = 0.274
Deviation
−0.4
0.0
0.2
0.4
2009
2010
2011
2012
2013
2014
Year

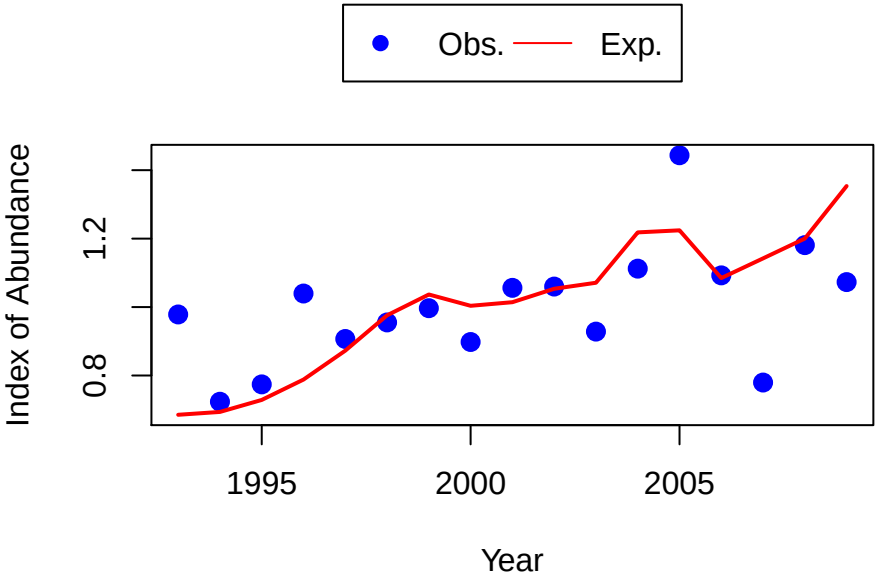

SEAMAP
Partial ACF
0.5
0.0
−0.5
1.0
1.2
1.4
1.6
1.8
2.0
Lag

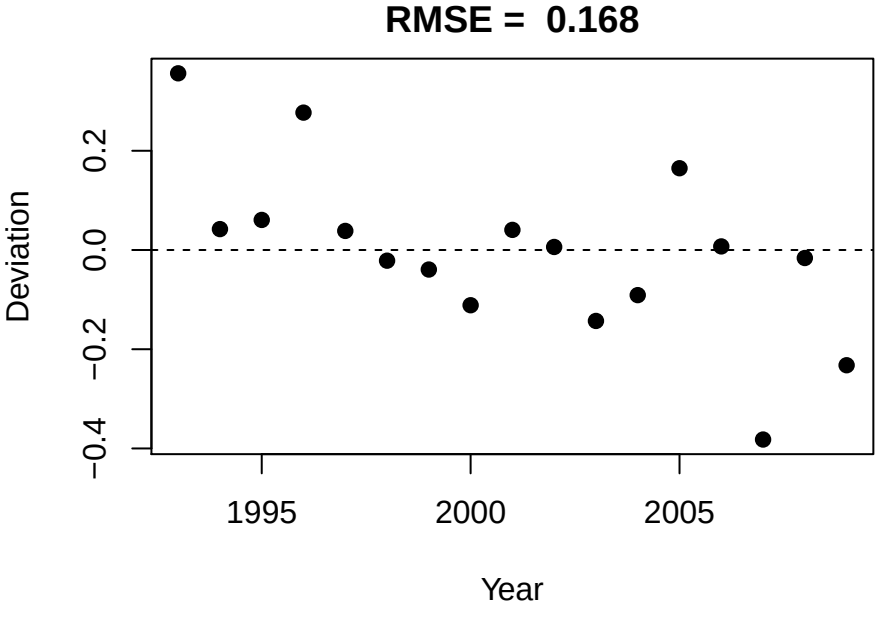
Red Grouper SEDAR 61

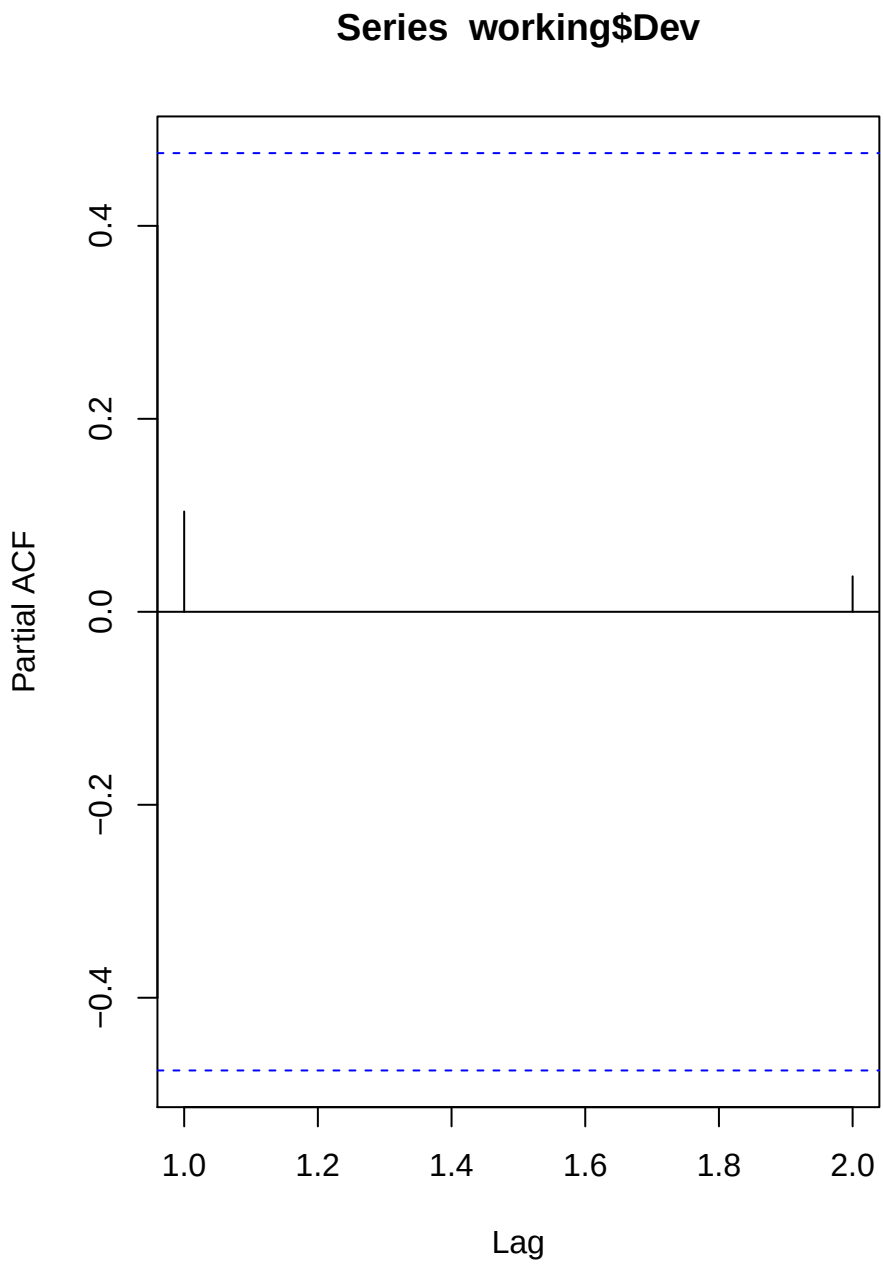

Obs.
Exp.
Index of Abundance
0.6
1.0
1.4
1995
2000
2005
Year

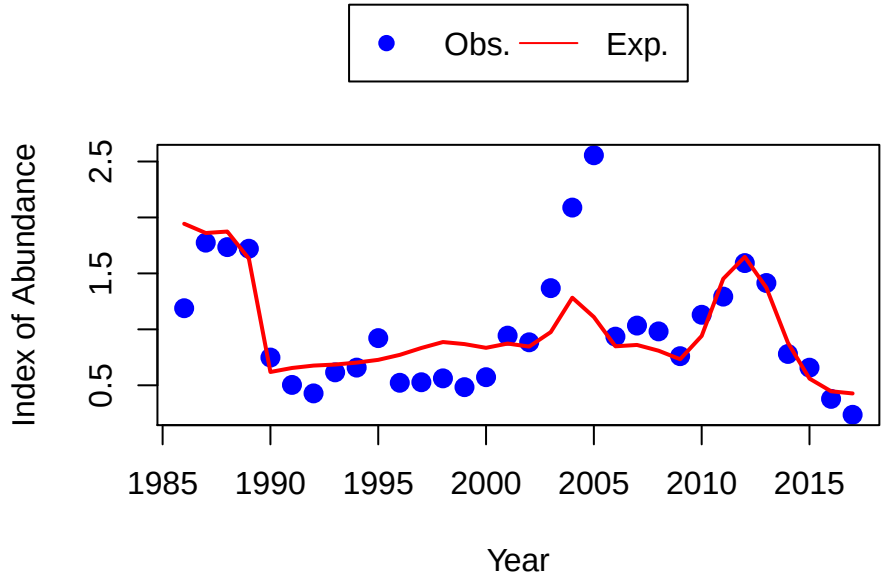

RMSE = 0.273
Deviation
−0.6
−0.2
0.2
1995
2000
2005
Year

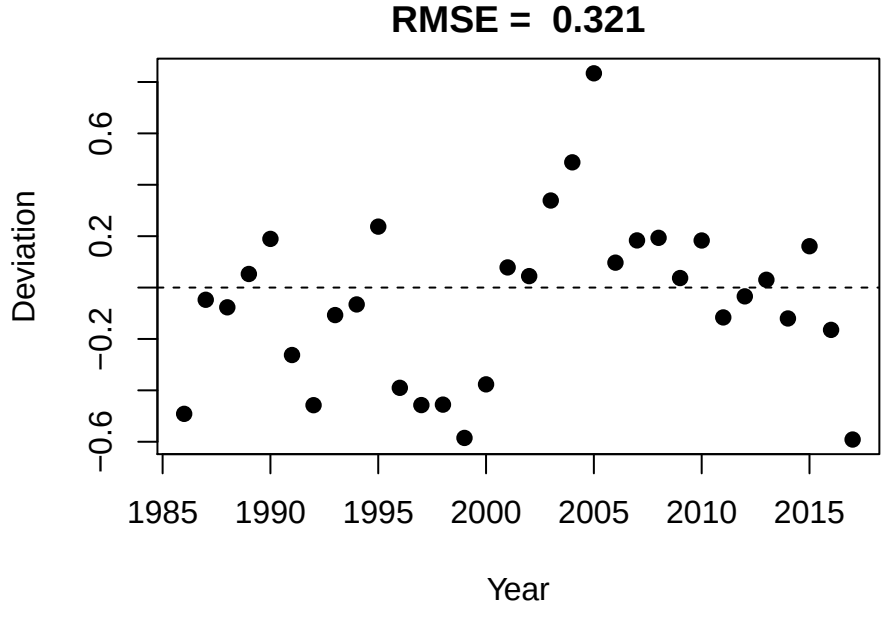

Series working$Dev
Partial ACF
0.6
0.4
0.2
0.0
−0.2
−0.4
1.0
1.2
1.4
1.6
1.8
2.0
Lag

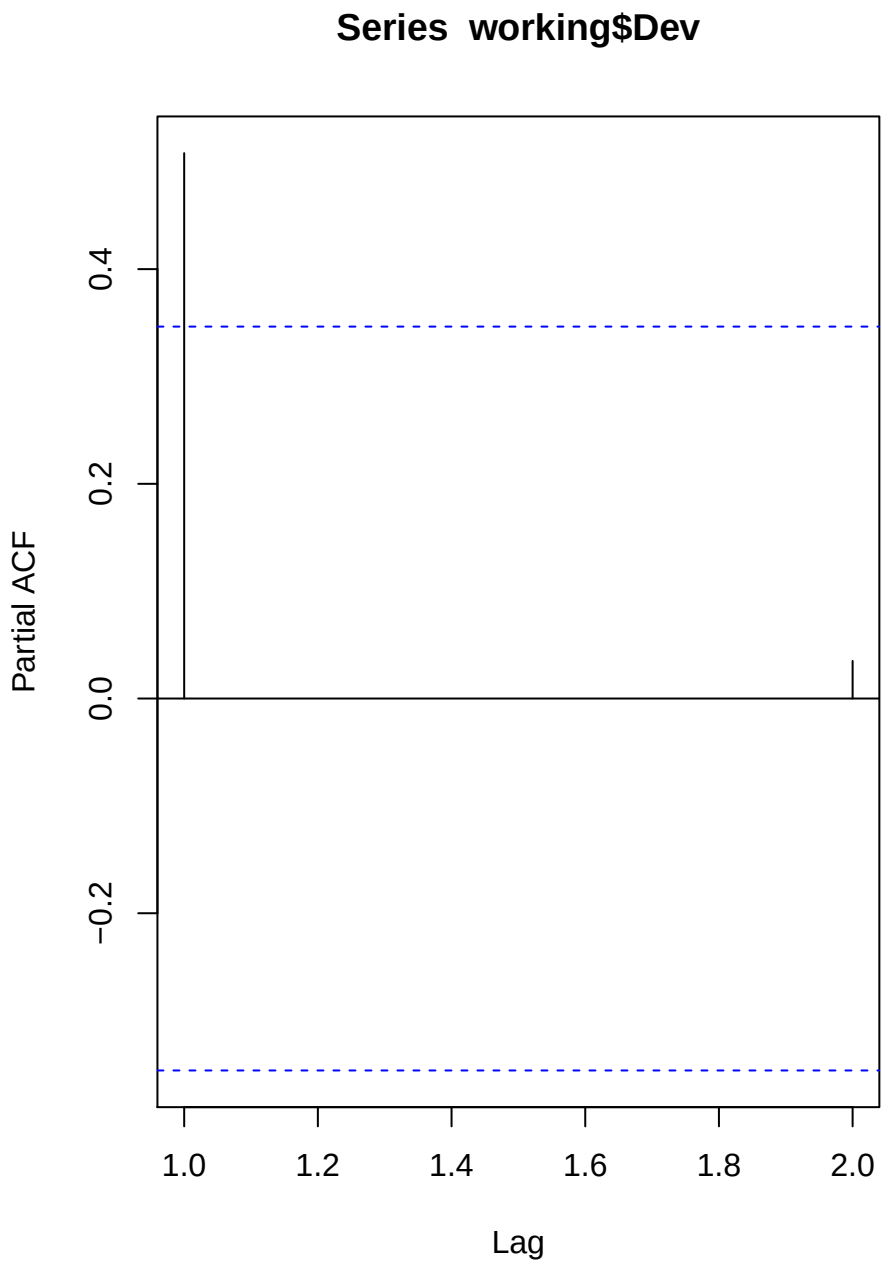

Obs.
Exp.
Index of Abundance
0.8
1.2
1995
2000
2005
Year

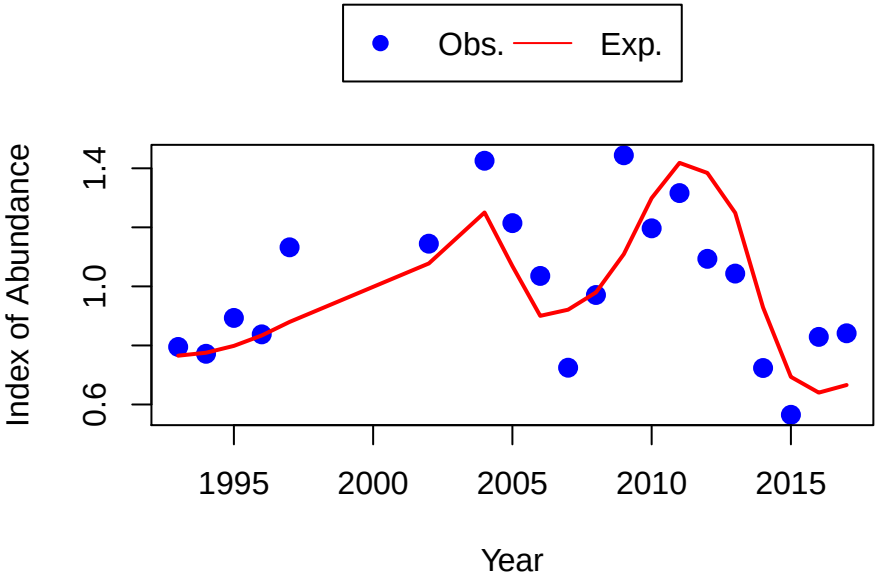

RMSE = 0.168
Deviation
−0.4
−0.2
0.0
0.2
1995
2000
2005
Year

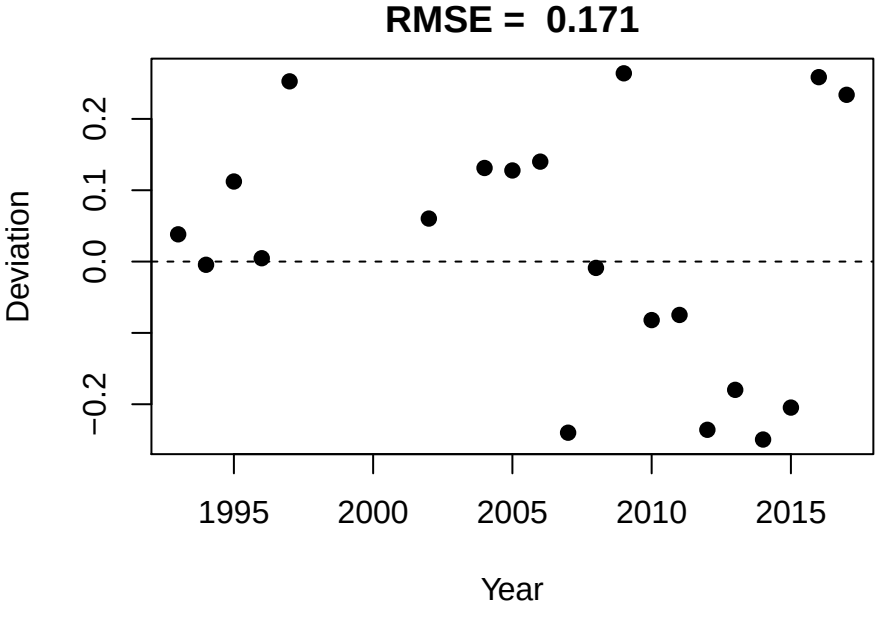

Series working$Dev
Partial ACF
0.4
0.2
0.0
−0.2
−0.4
1.0
1.2
1.4
1.6
1.8
2.0
Lag

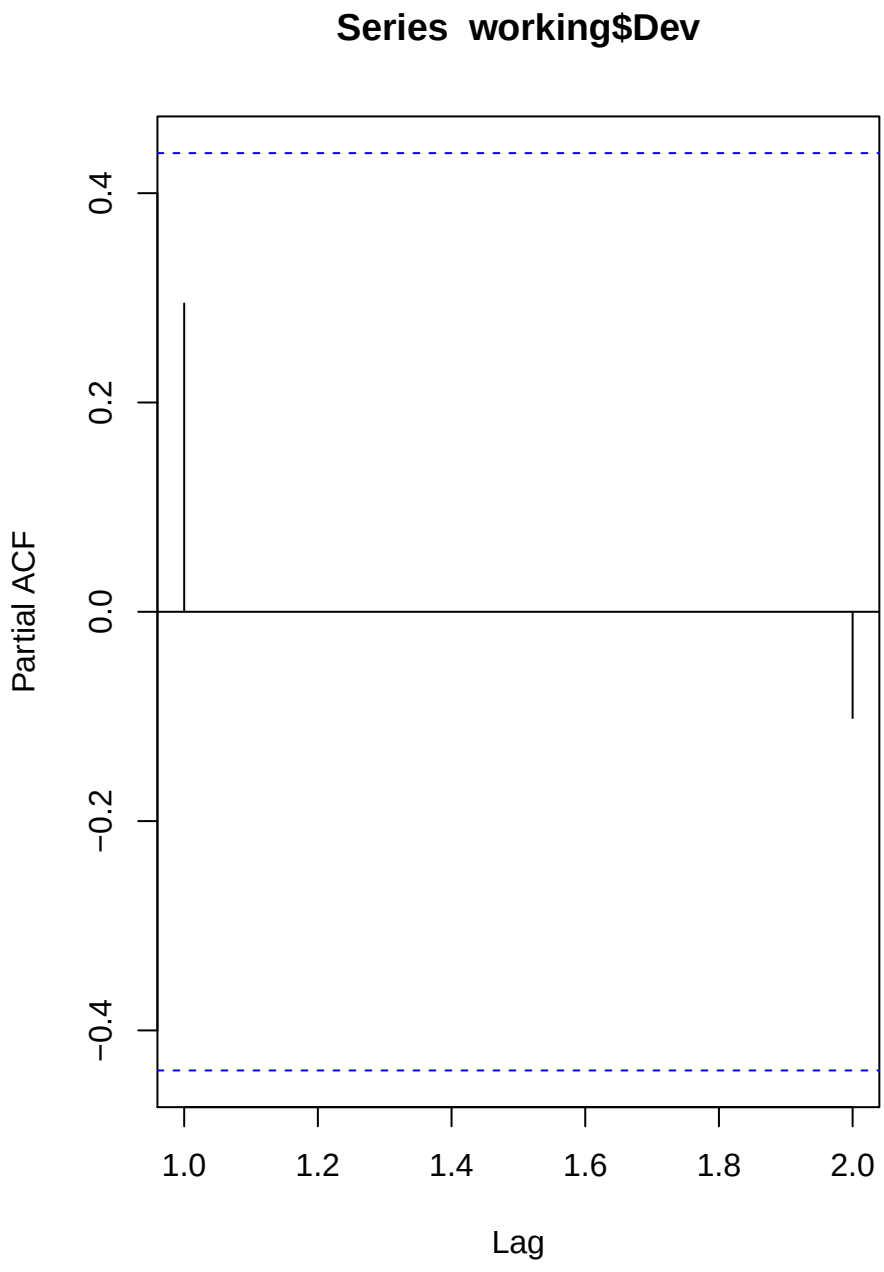

Obs.
Exp.
Index of Abundance
0.5
1.5
2.5
1985
1990
1995
2000
2005
2010
2015
Year

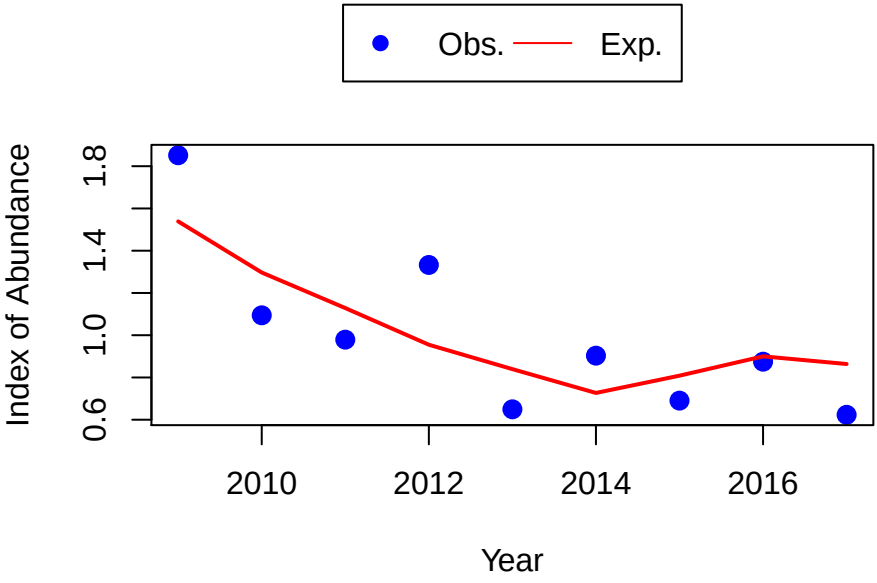

RMSE = 0.321
Deviation
−0.6
−0.2
0.2
0.6
1985
1990
1995
2000
2005
2010
2015
Year

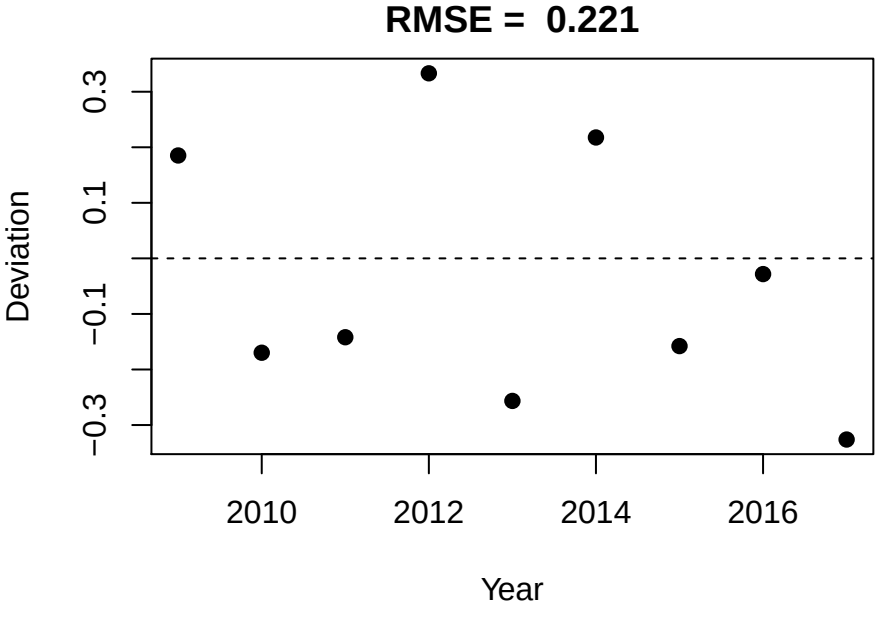

Series working$Dev
Partial ACF
0.4
0.2
0.0
−0.2
1.0
1.2
1.4
1.6
1.8
2.0
Lag

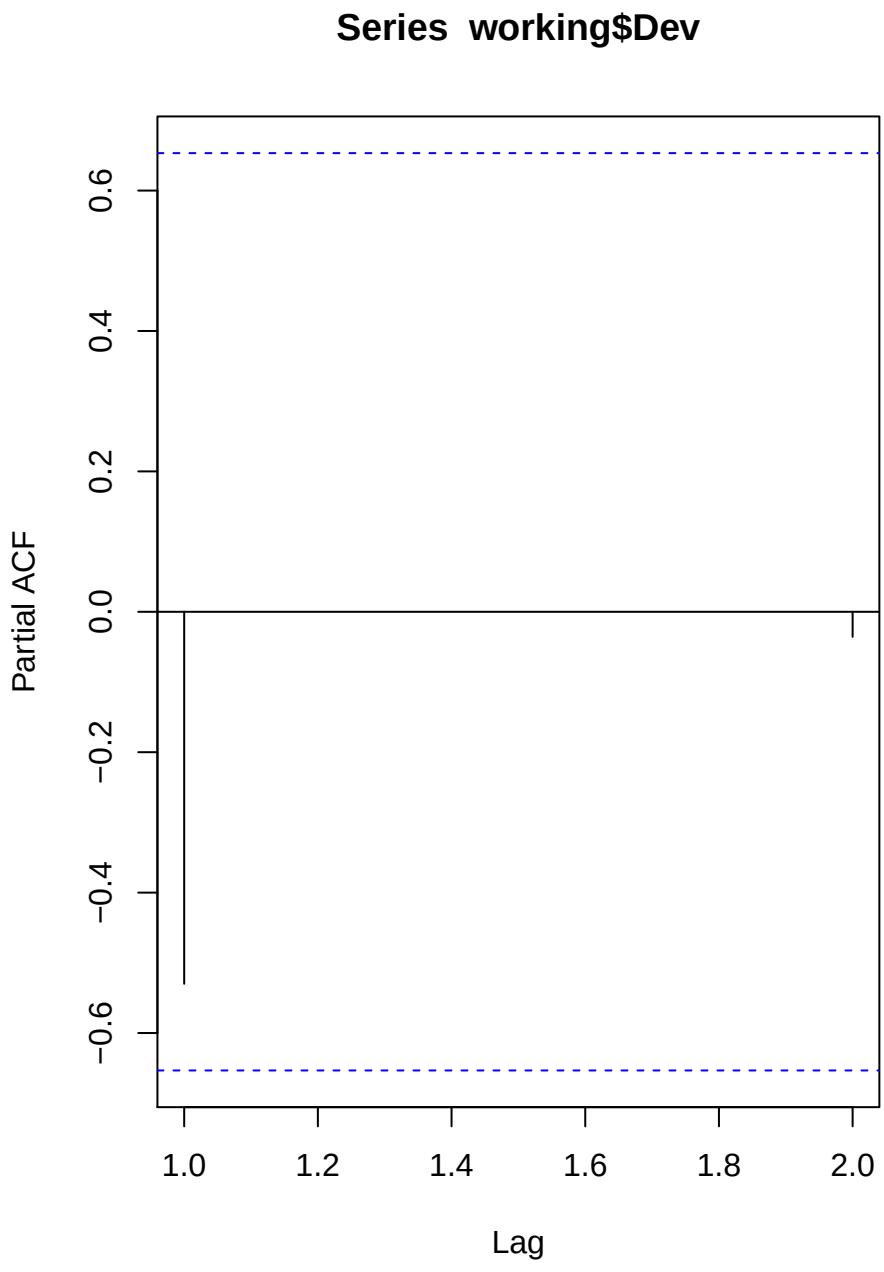

Obs.
Exp.
Index of Abundance
0.6
1.0
1.4
1995
2000
2005
2010
2015
Year

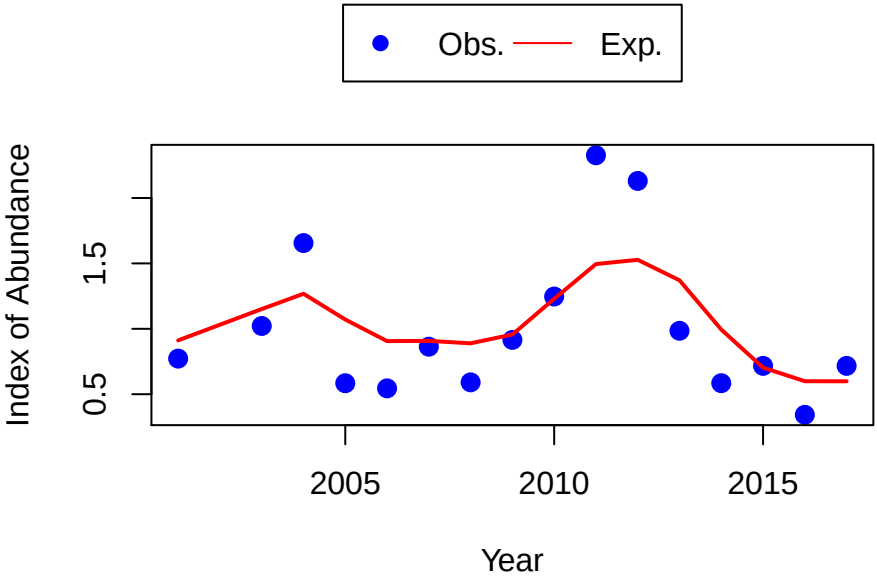

RMSE = 0.171
Deviation
−0.2
0.0
0.1
0.2
1995
2000
2005
2010
2015
Year

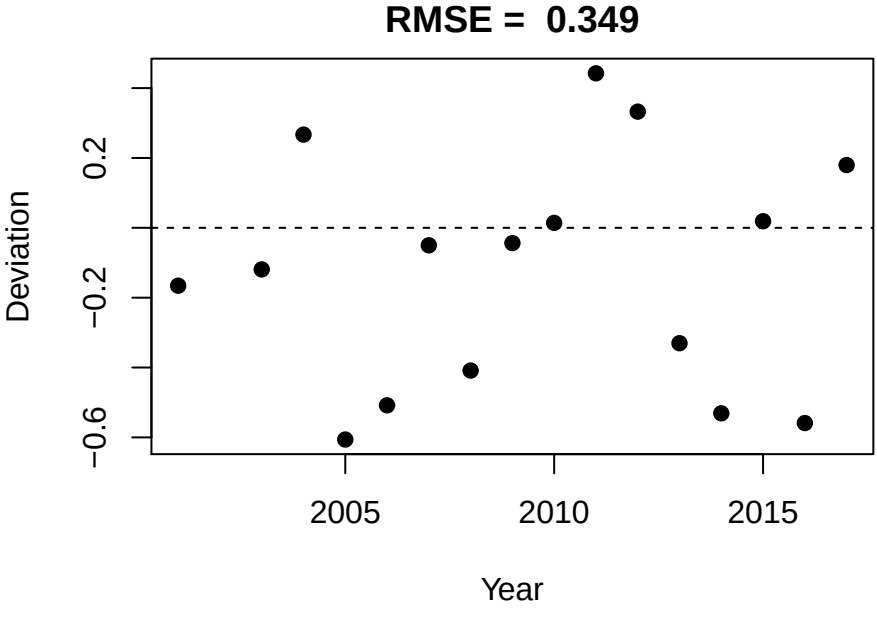

Series working$Dev
Partial ACF
0.4
0.2
0.0
−0.2
−0.4
1.0
1.2
1.4
1.6
1.8
2.0
Lag

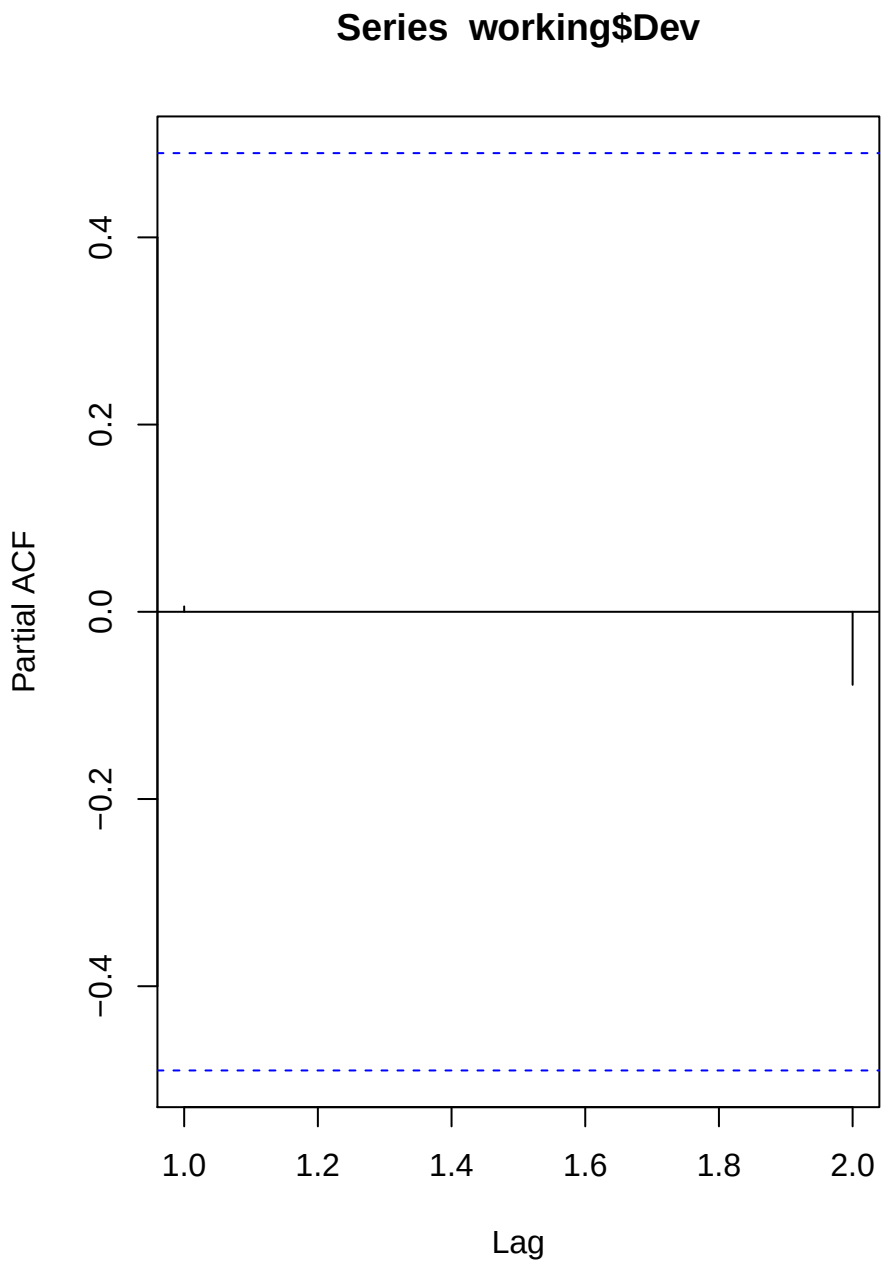

Obs.
Exp.
Index of Abundance
0.6
1.0
1.4
1.8
2010
2012
2014
2016
Year

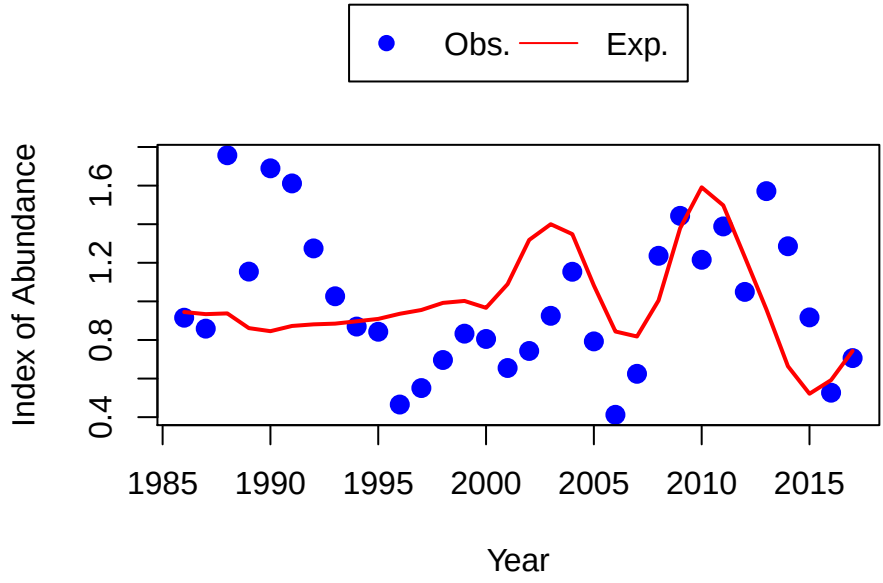

RMSE = 0.221
Deviation
−0.3
−0.1
0.1
0.3
2010
2012
2014
2016
Year

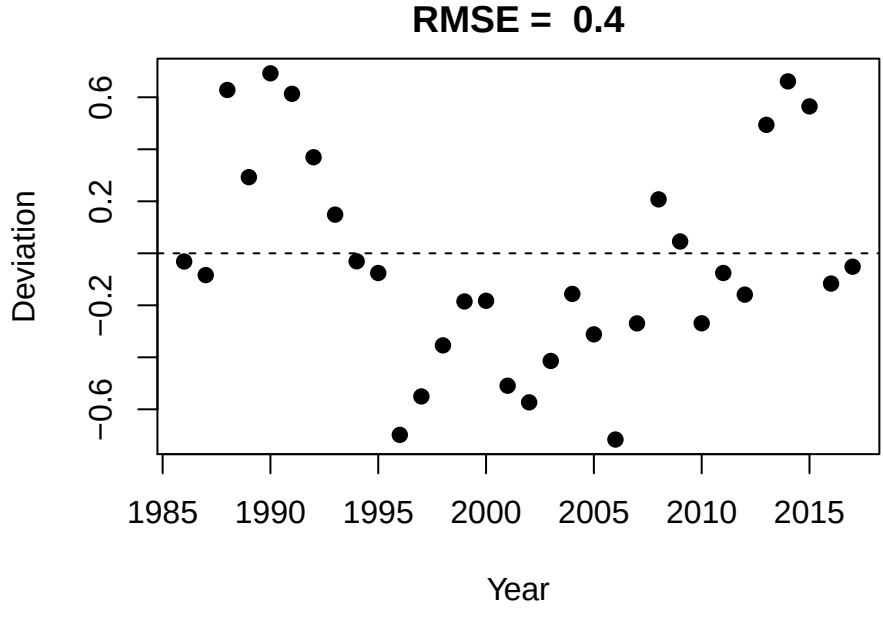

Series working$Dev
Partial ACF
0.6
0.4
0.2
0.0
−0.2
−0.4
−0.6
1.0
1.2
1.4
1.6
1.8
2.0
Lag

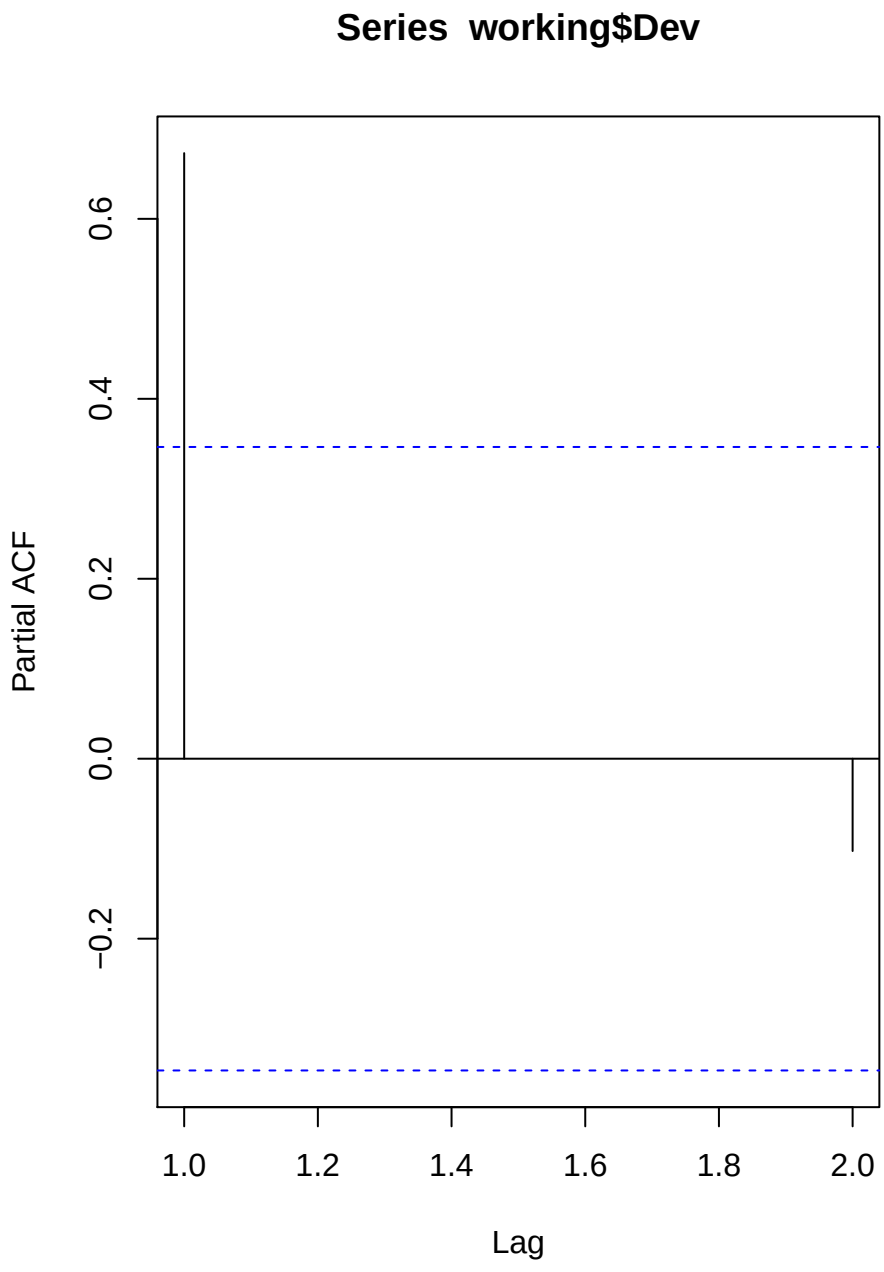

Obs.
Exp.
Index of Abundance
0.5
1.5
2005
2010
2015
Year

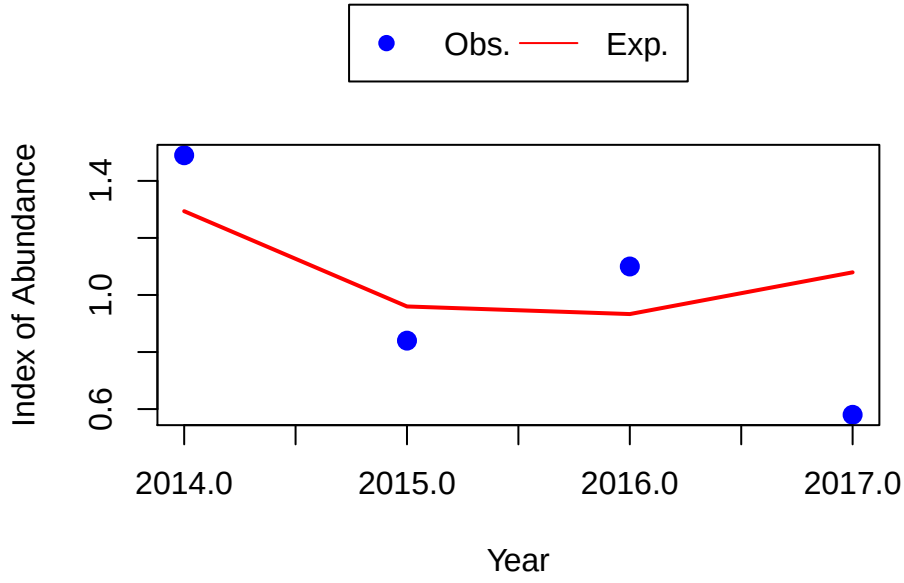

RMSE = 0.349
Deviation
−0.6
−0.2
0.2
2005
2010
2015
Year

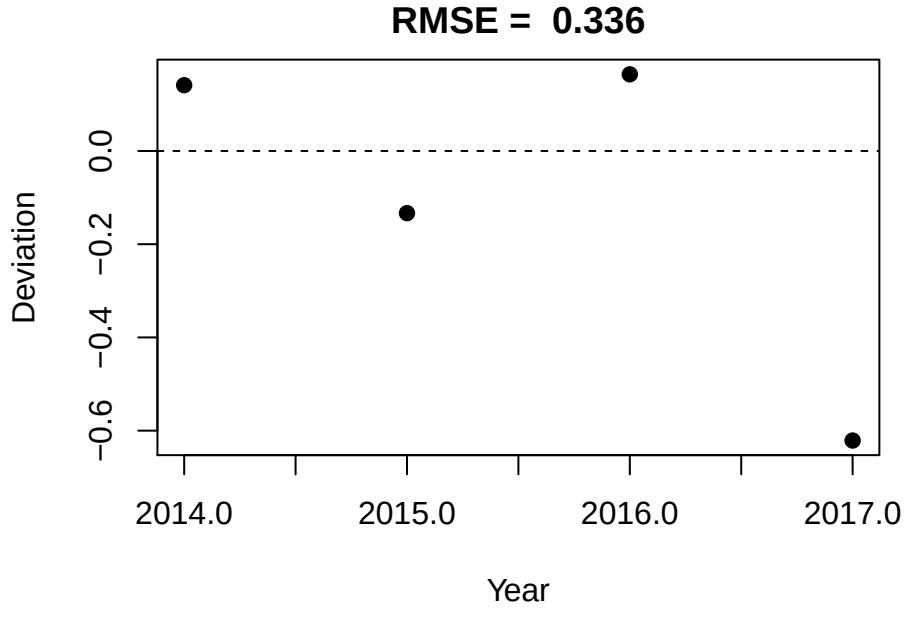

Series working$Dev
Partial ACF
0.4
0.2
0.0
−0.2
−0.4
1.0
1.2
1.4
1.6
1.8
2.0
Lag

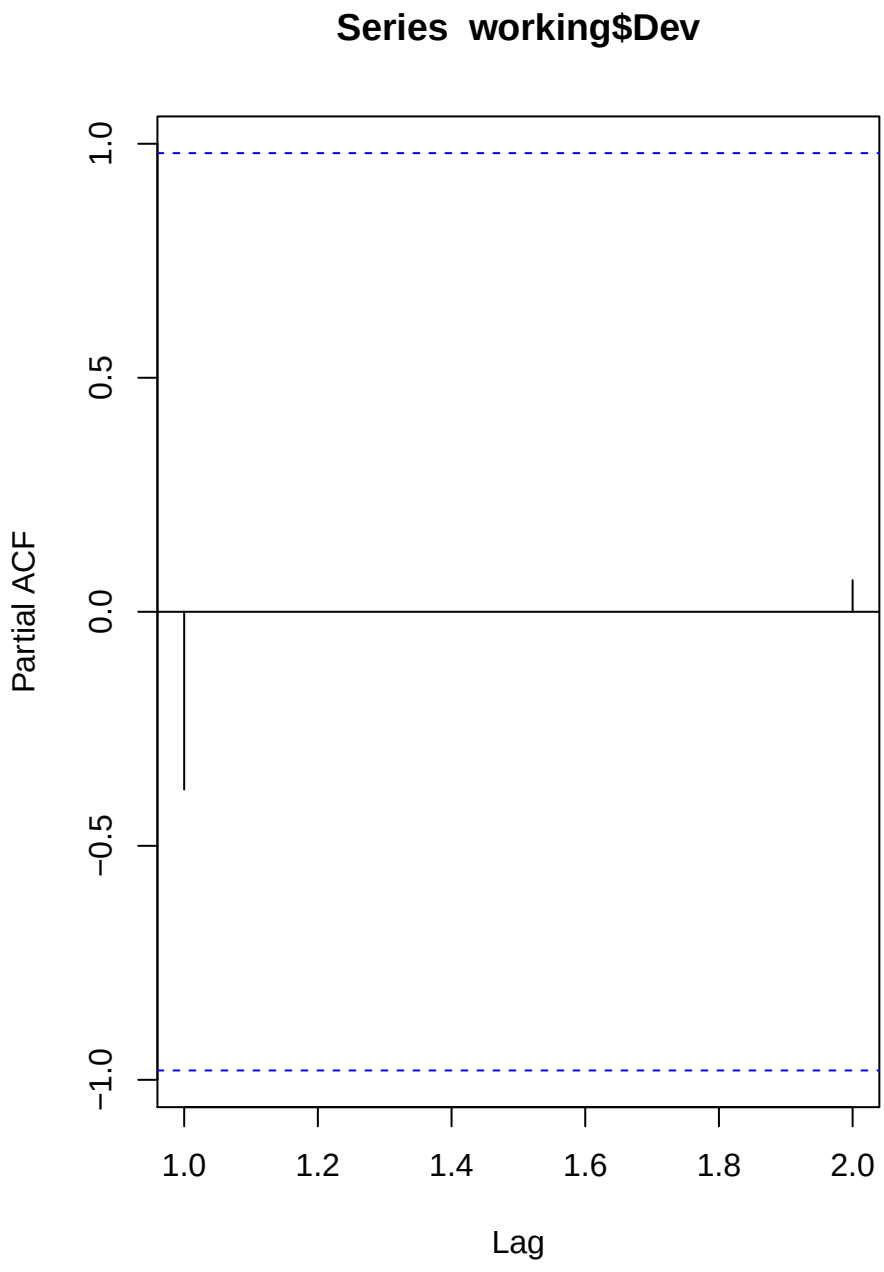

Obs.
Exp.
Index of Abundance
0.4
0.8
1.2
1.6
1985
1990
1995
2000
2005
2010
2015
Year


RMSE = 0.4
Deviation
−0.6
−0.2
0.2
0.6
1985
1990
1995
2000
2005
2010
2015
Year

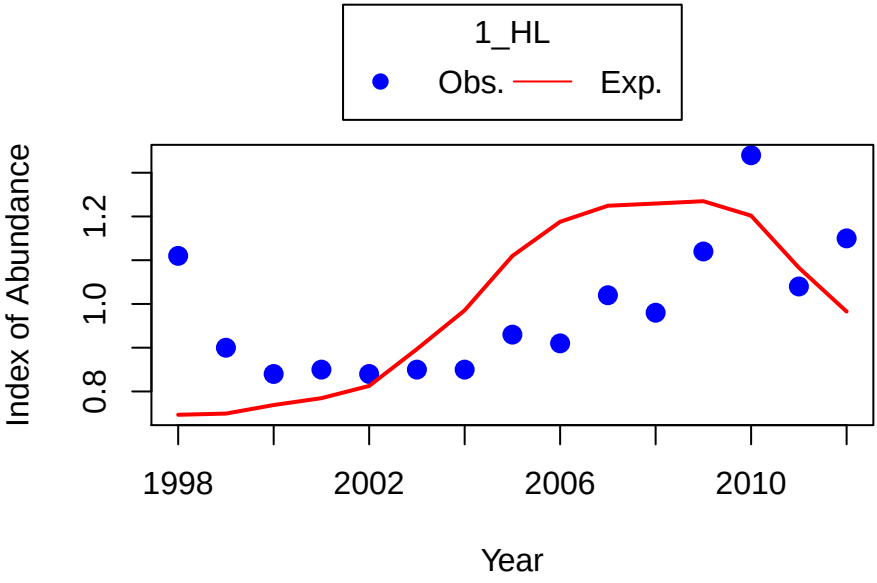

Series working$Dev
Partial ACF
0.6
0.4
0.2
0.0
−0.2
1.0
1.2
1.4
1.6
1.8
2.0
Lag

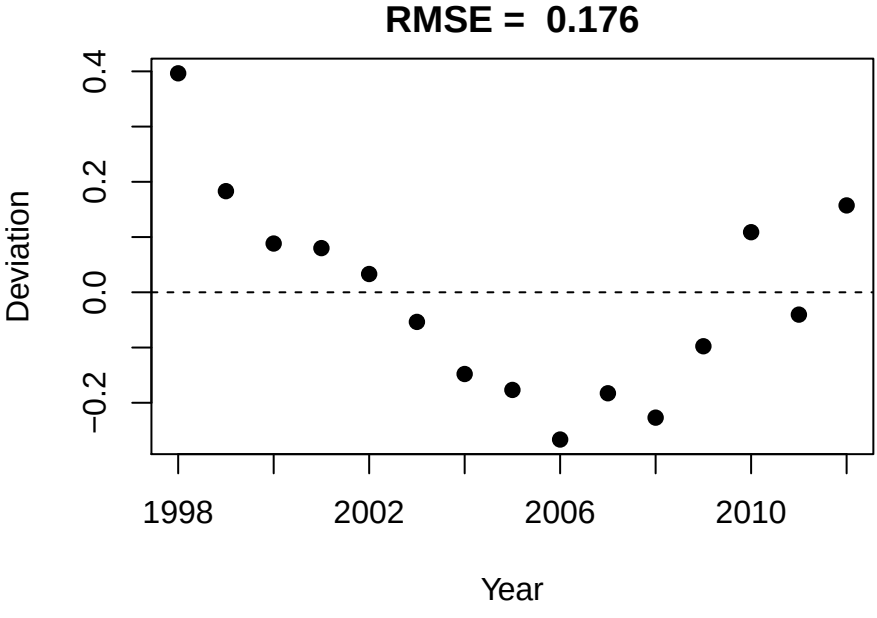

Obs.
Exp.
Index of Abundance
0.6
1.0
1.4
2014.0
2015.0
2016.0
2017.0
Year

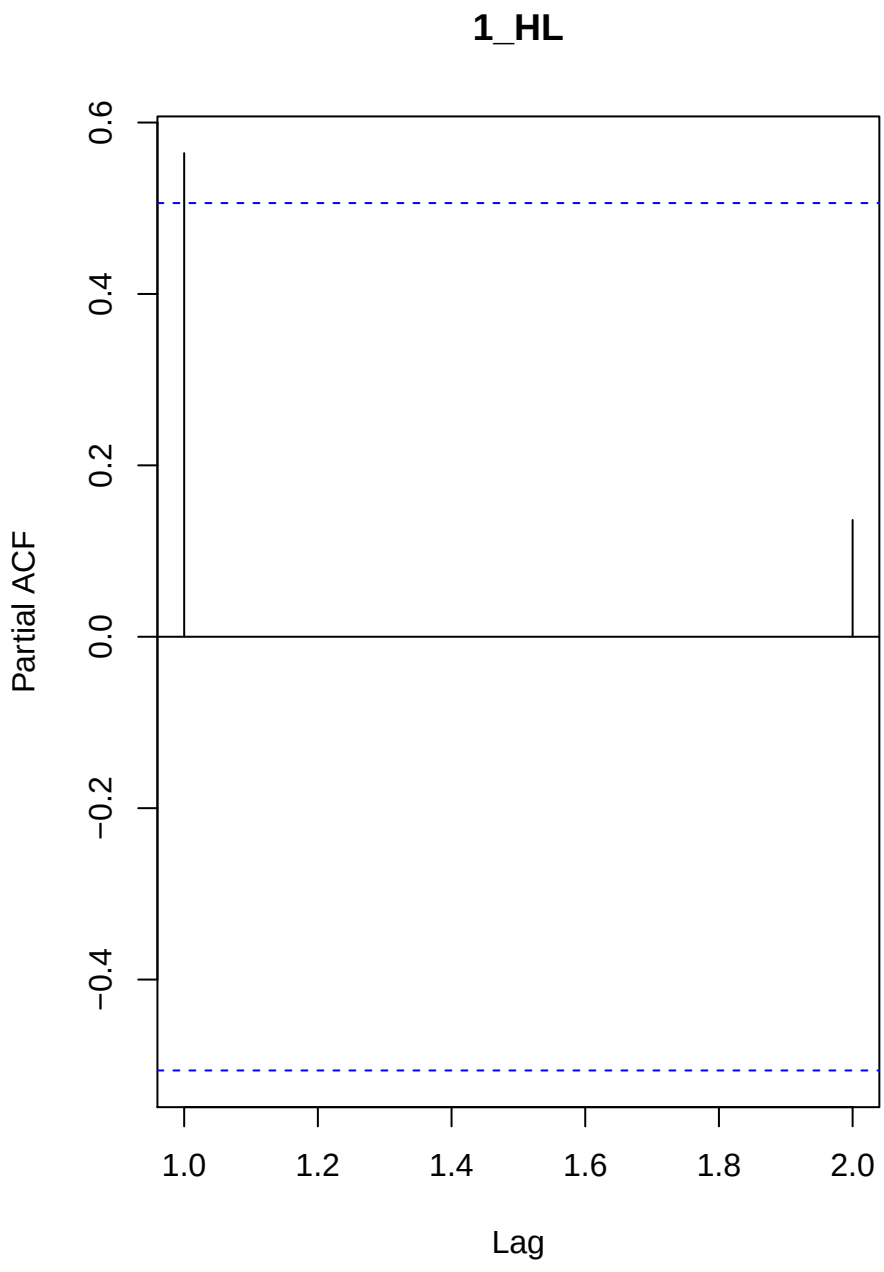

RMSE = 0.336
Deviation
−0.6
−0.4
−0.2
0.0
2014.0
2015.0
2016.0
2017.0
Year

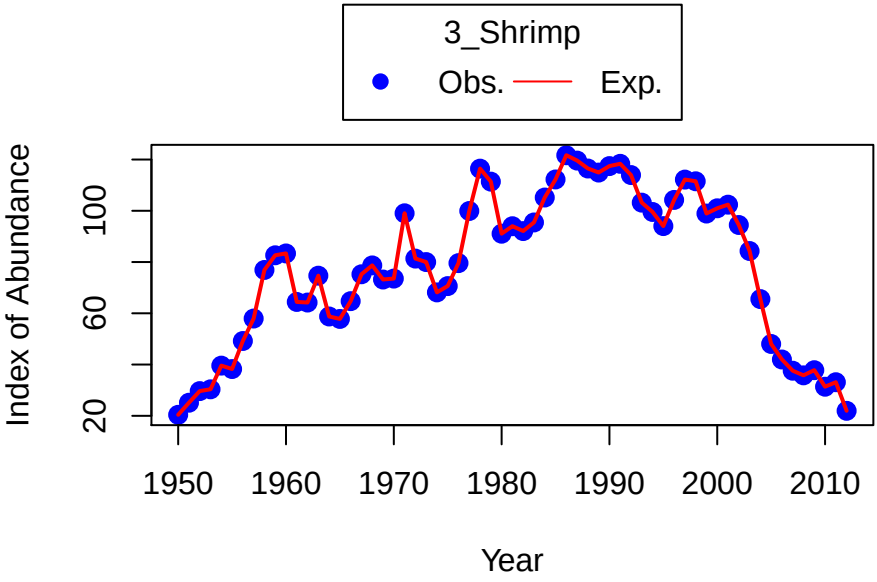

Series working$Dev
Partial ACF
1.0
0.5
0.0
−0.5
−1.0
1.0
1.2
1.4
1.6
1.8
2.0
Lag

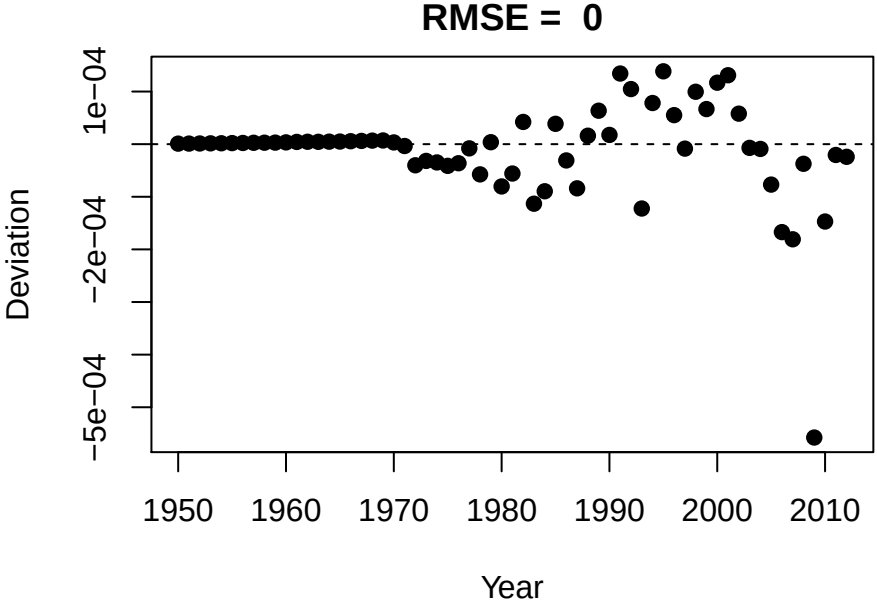
King Mack SEDAR 38

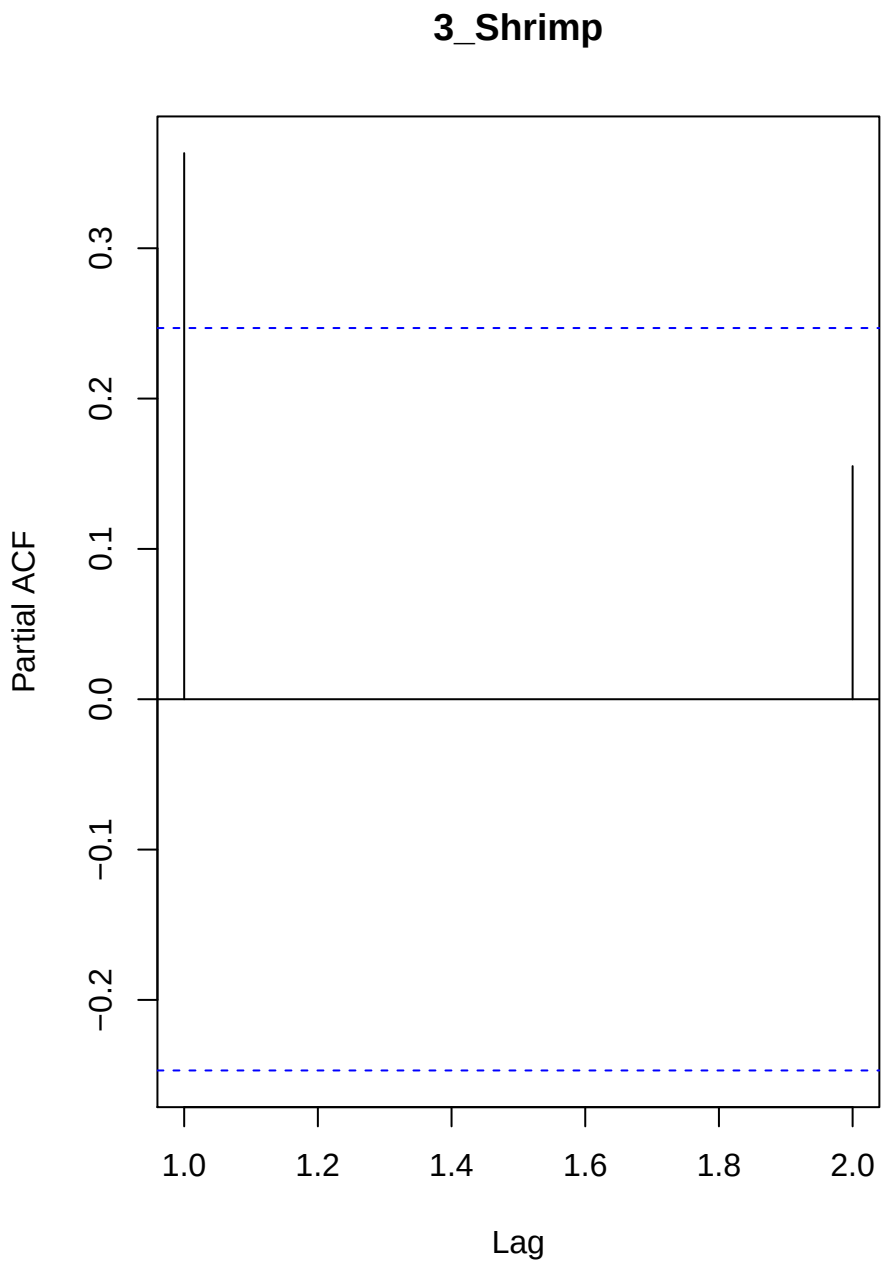

1_HL
Obs.
Exp.
Index of Abundance
0.8
1.0
1.2
1998
2002
2006
2010
Year

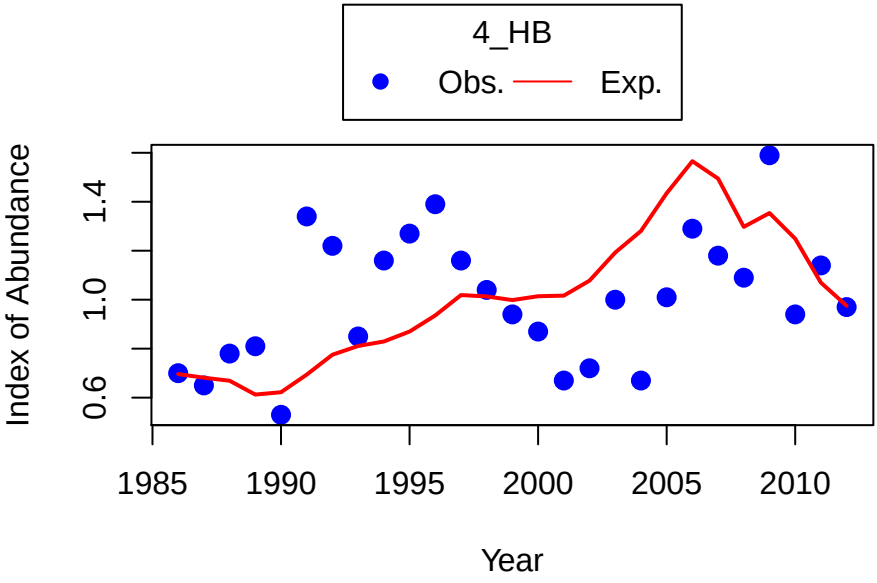

RMSE = 0.176
Deviation
−0.2
0.0
0.2
0.4
1998
2002
2006
2010
Year

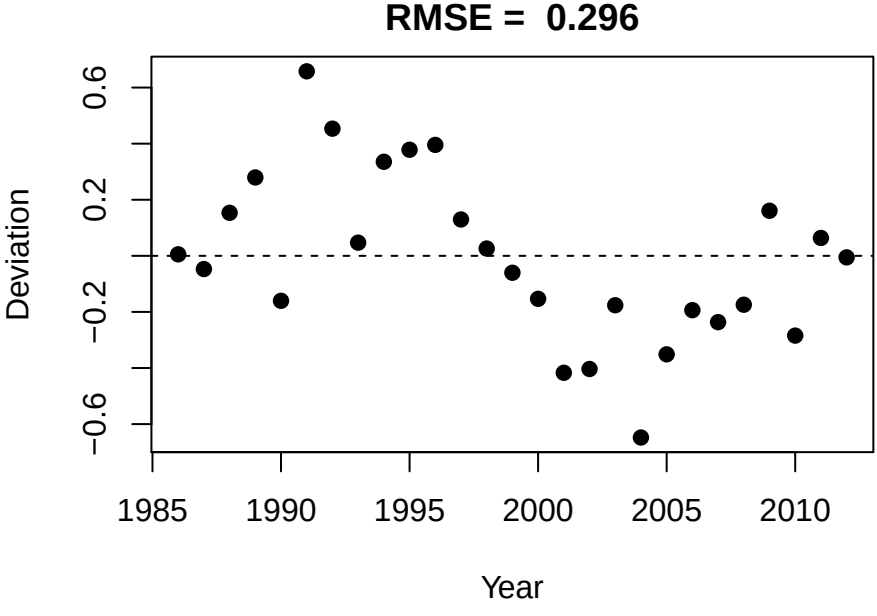

1_HL
Partial ACF
0.6
0.4
0.2
0.0
−0.2
−0.4
1.0
1.2
1.4
1.6
1.8
2.0
Lag

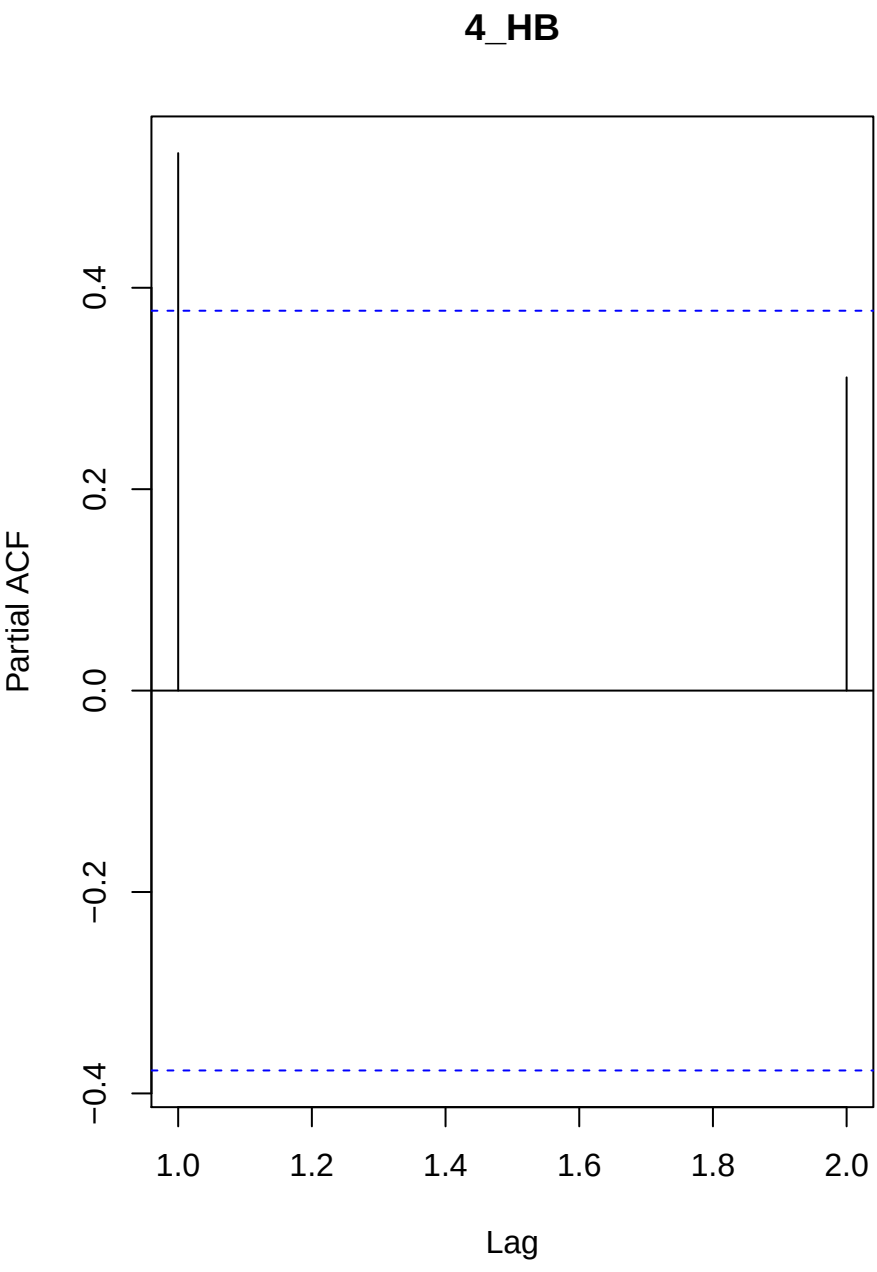

3_Shrimp
Obs.
Exp.
Index of Abundance
20
60
100
1950
1960
1970
1980
1990
2000
2010
Year

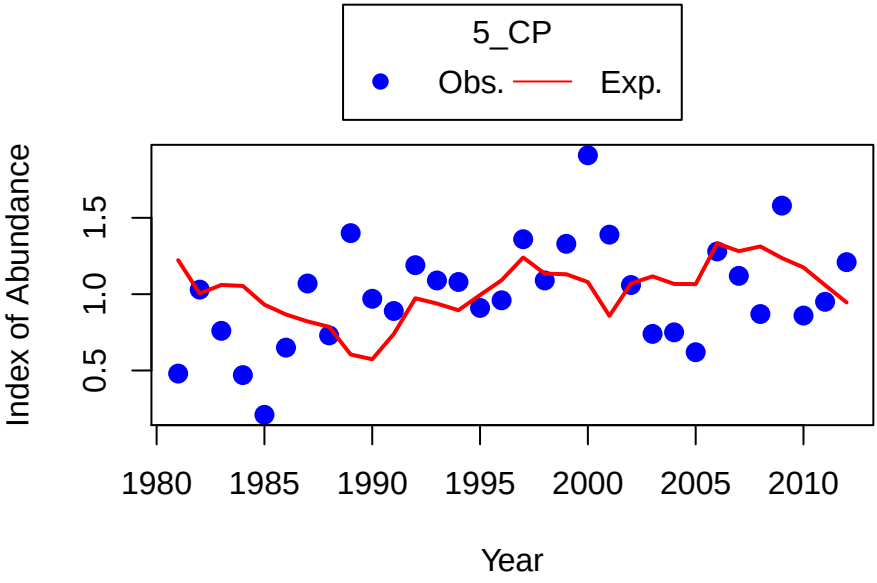

RMSE = 0
Deviation
1e−04
−2e−04
−5e−04
1950
1960
1970
1980
1990
2000
2010
Year

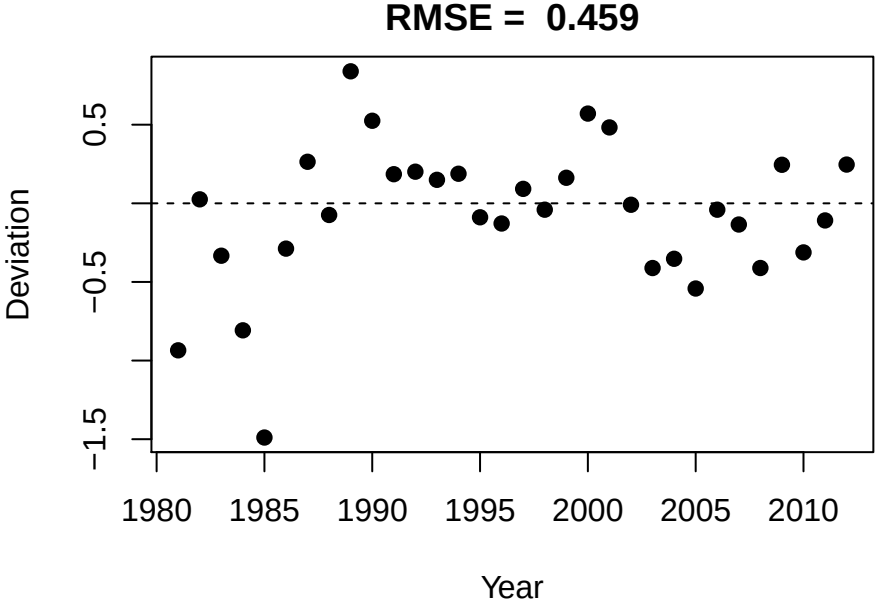

3_Shrimp
Partial ACF
0.3
0.2
0.1
0.0
−0.1
−0.2
1.0
1.2
1.4
1.6
1.8
2.0
Lag

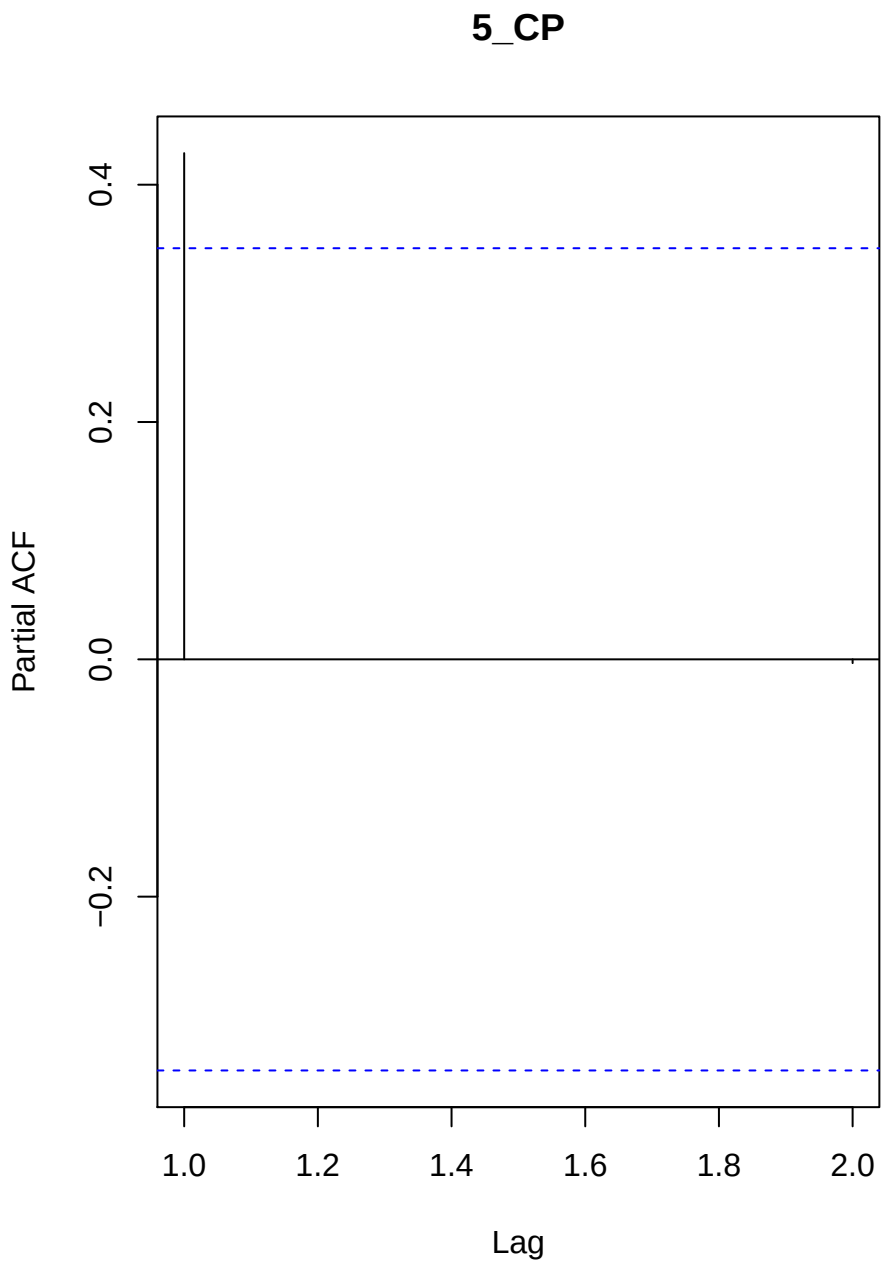

4_HB
Obs.
Exp.
Index of Abundance
0.6
1.0
1.4
1985
1990
1995
2000
2005
2010
Year

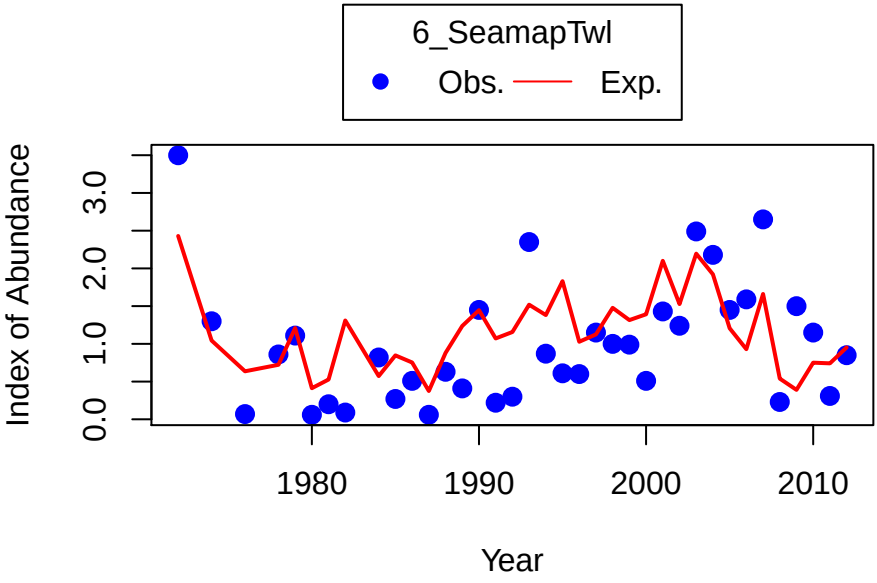

RMSE = 0.296
Deviation
−0.6
−0.2
0.2
0.6
1985
1990
1995
2000
2005
2010
Year

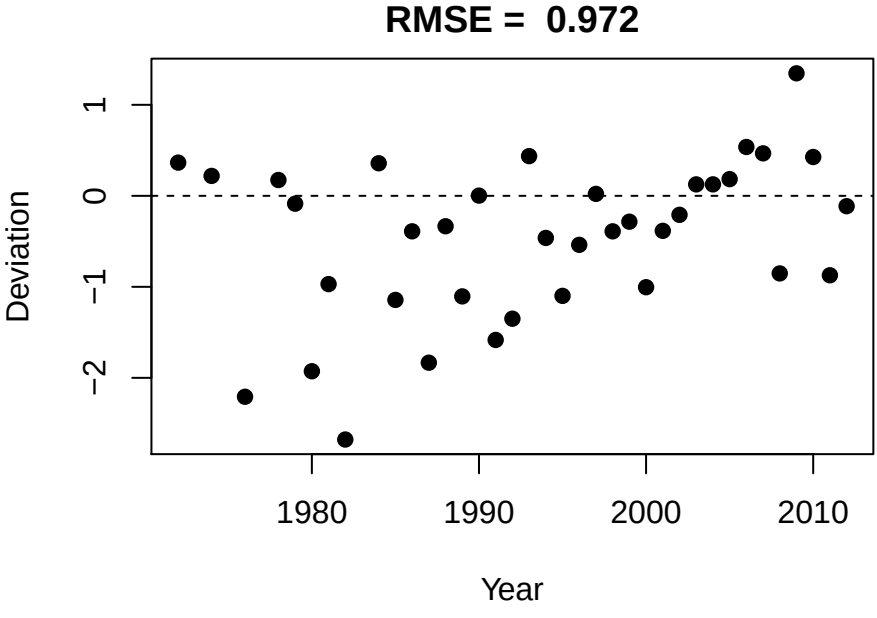

4_HB
Partial ACF
0.4
0.2
0.0
−0.2
−0.4
1.0
1.2
1.4
1.6
1.8
2.0
Lag

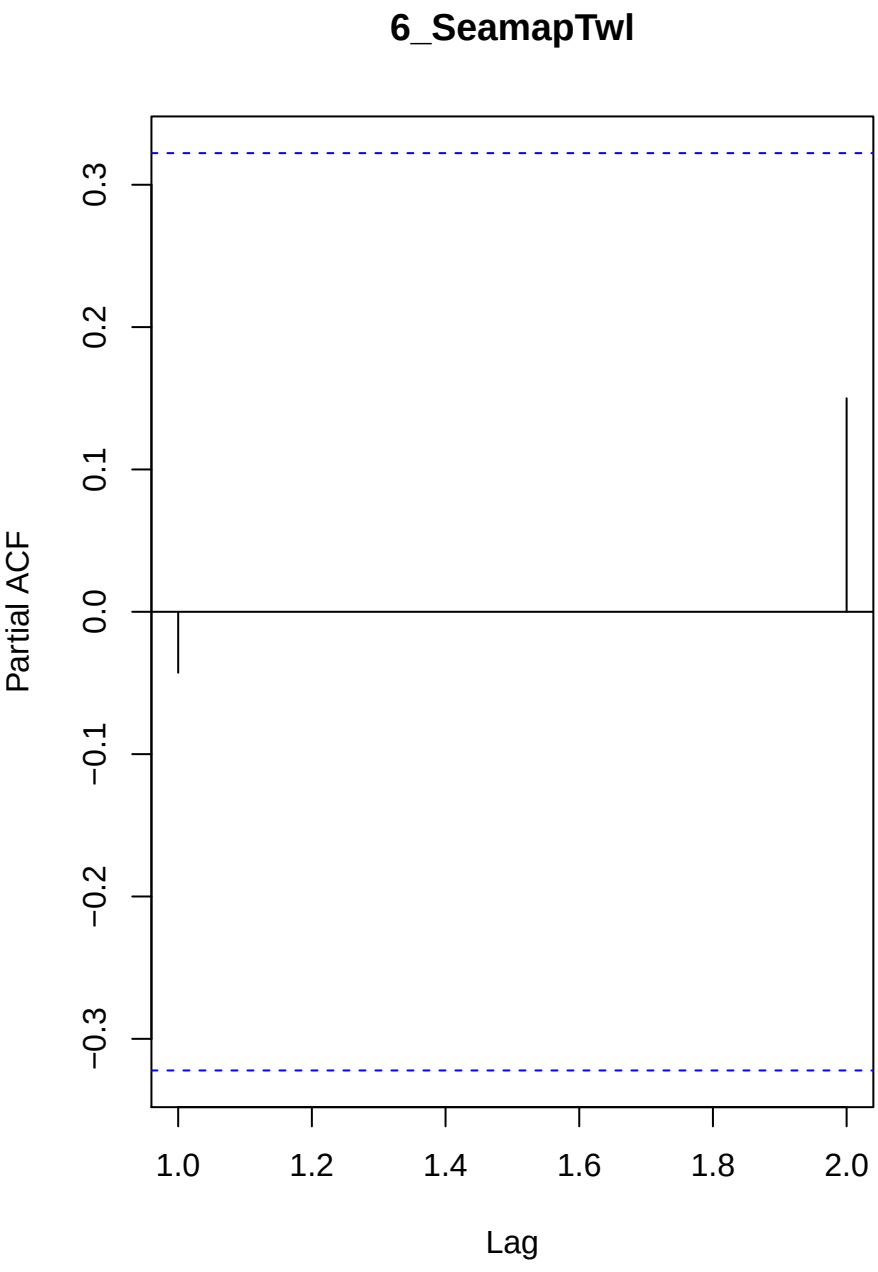

5_CP
Obs.
Exp.
Index of Abundance
0.5
1.0
1.5
1980
1985
1990
1995
2000
2005
2010
Year

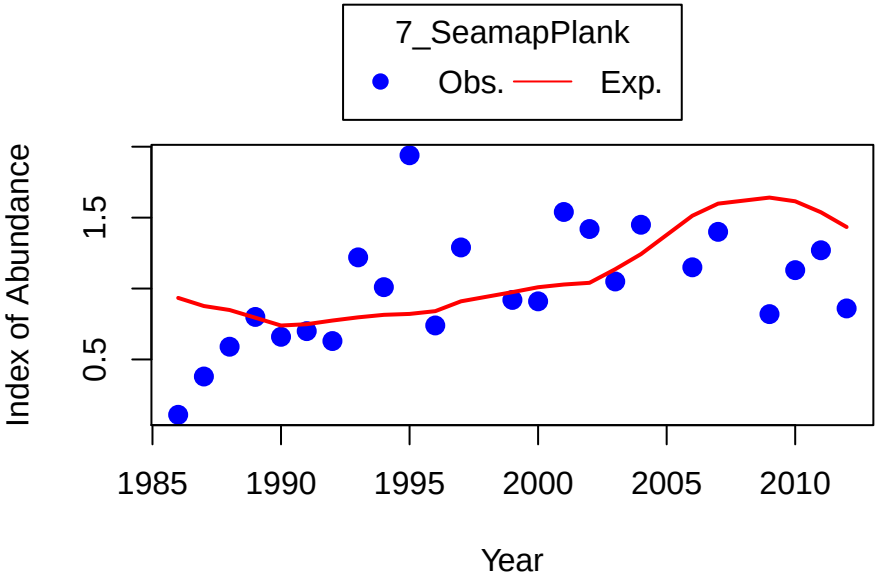

RMSE = 0.459
Deviation
0.5
−0.5
−1.5
1980
1985
1990
1995
2000
2005
2010
Year

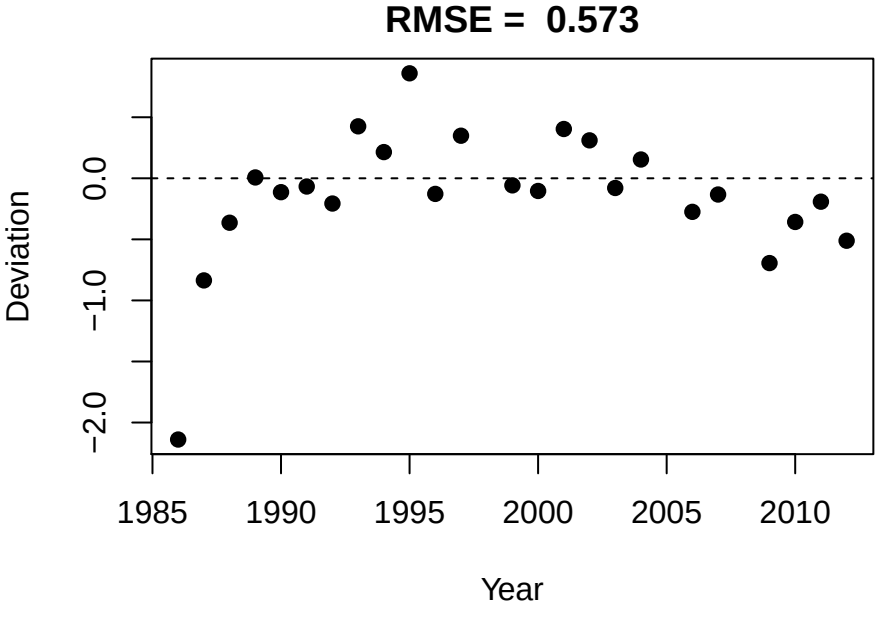

5_CP
Partial ACF
0.4
0.2
0.0
−0.2
1.0
1.2
1.4
1.6
1.8
2.0
Lag

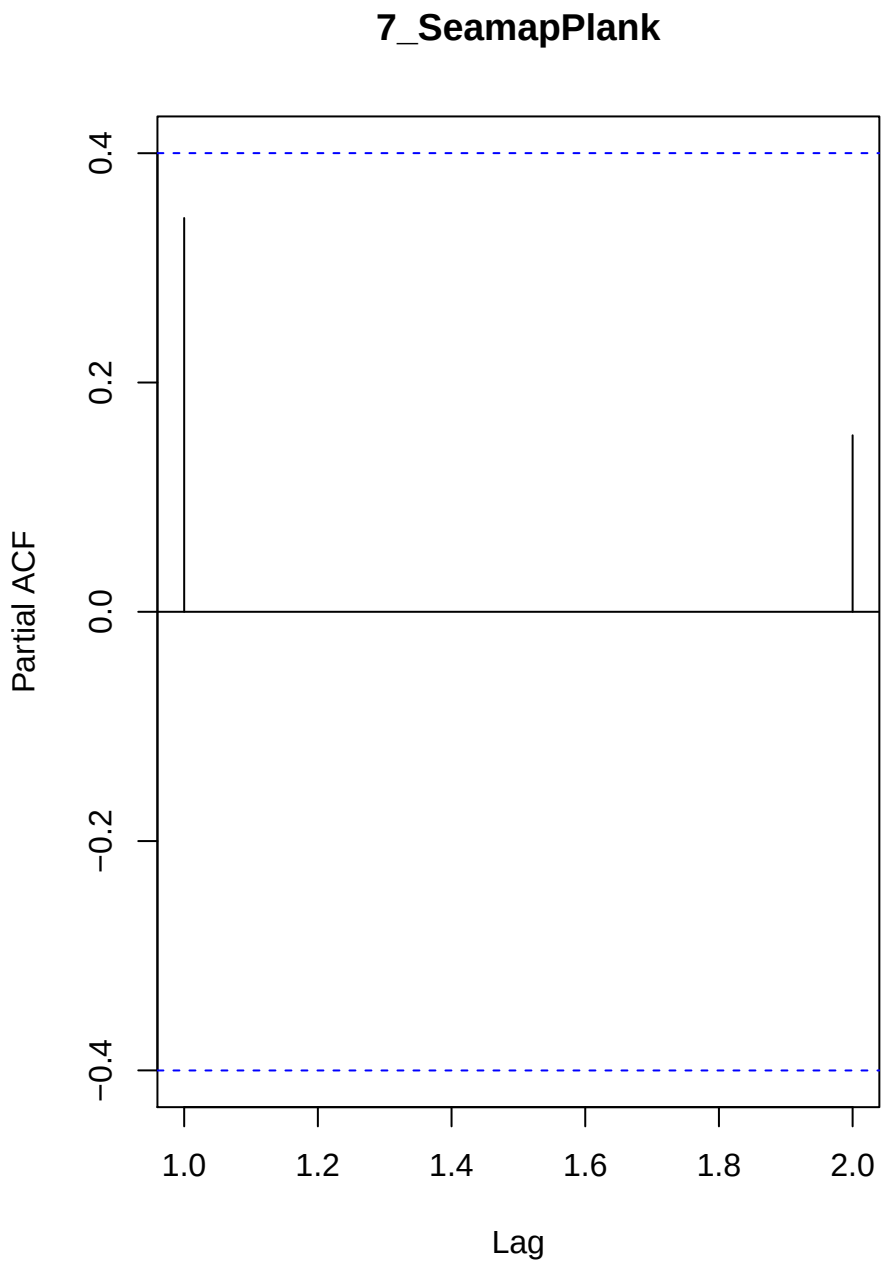

6_SeamapTwl
Obs.
Exp.
Index of Abundance
0.0
1.0
2.0
3.0
1980
1990
2000
2010
Year


RMSE = 0.972
Deviation
−2
−1
0
1
1980
1990
2000
2010
Year

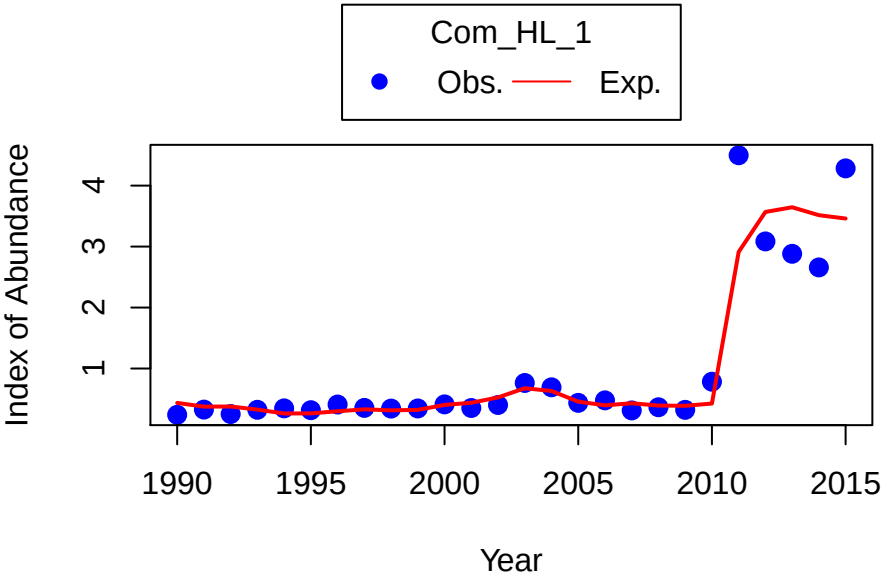

6_SeamapTwl
Partial ACF
0.3
0.2
0.1
0.0
−0.1
−0.2
−0.3
1.0
1.2
1.4
1.6
1.8
2.0
Lag

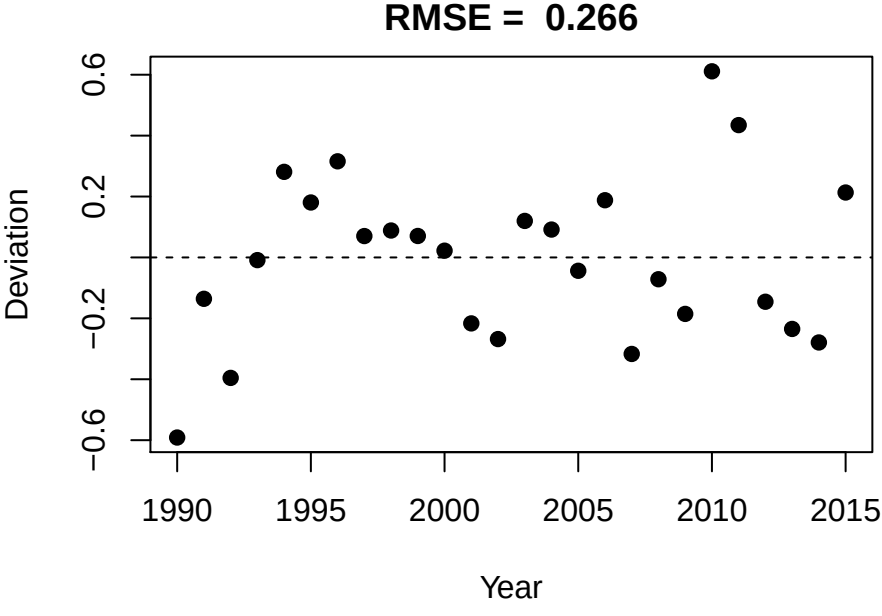

7_SeamapPlank
Obs.
Exp.
Index of Abundance
0.5
1.5
1985
1990
1995
2000
2005
2010
Year

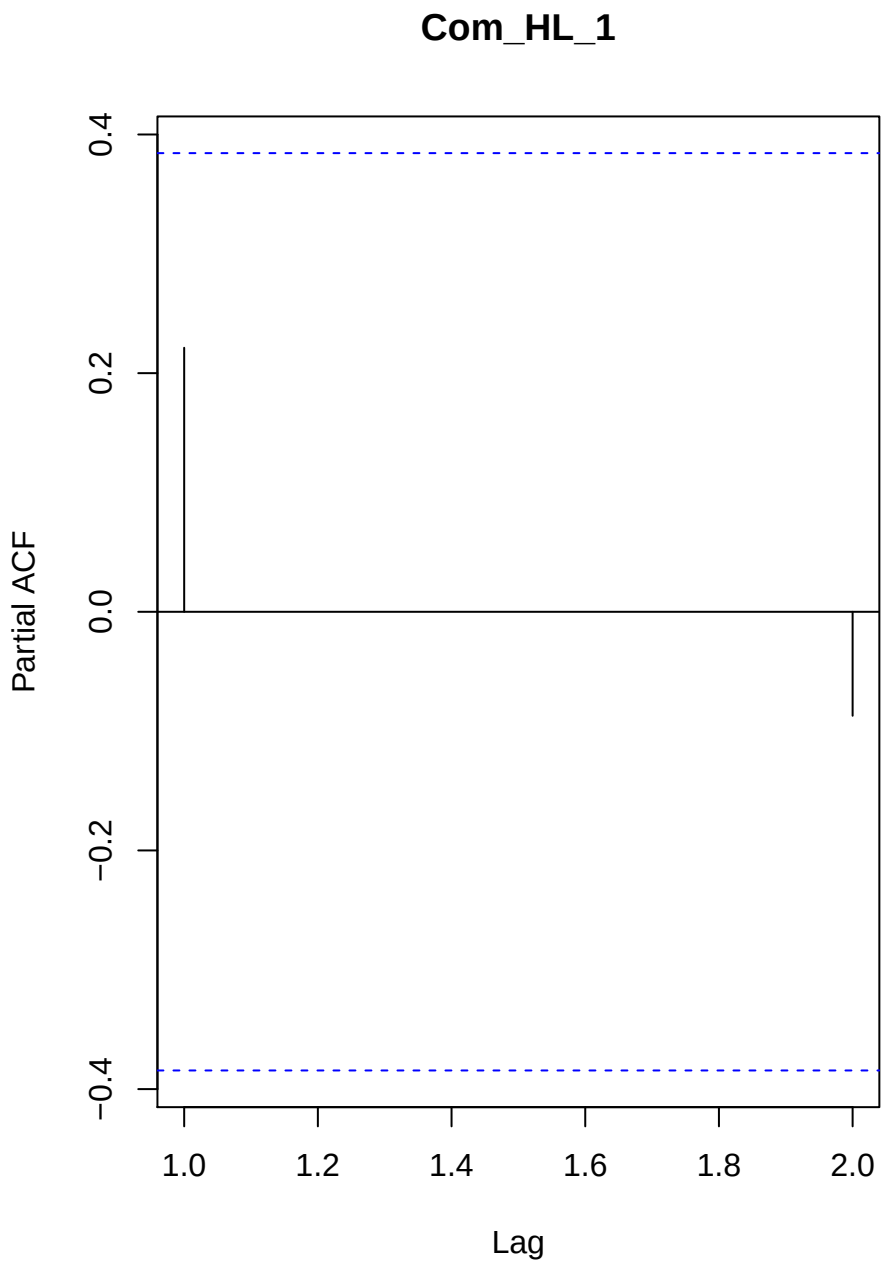

RMSE = 0.573
Deviation
0.0
−1.0
−2.0
1985
1990
1995
2000
2005
2010
Year

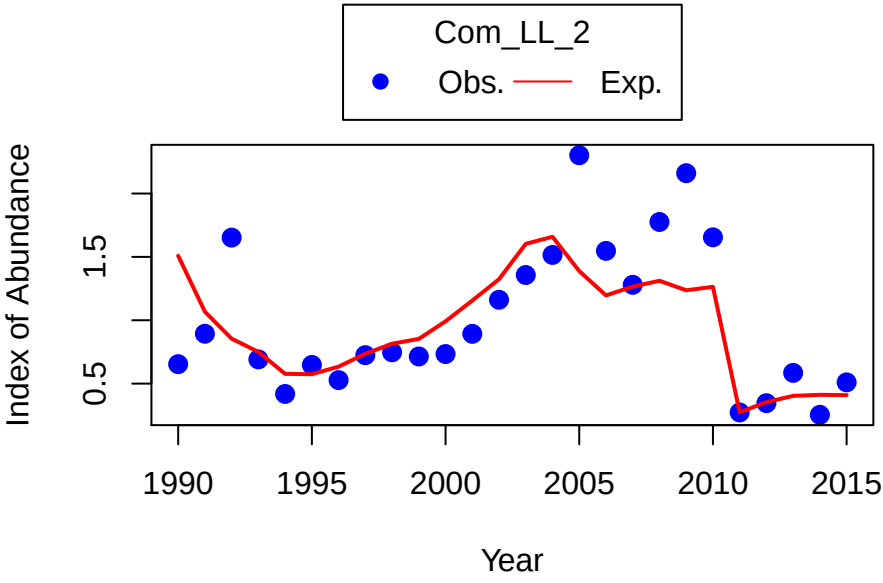

7_SeamapPlank
Partial ACF
0.4
0.2
0.0
−0.2
−0.4
1.0
1.2
1.4
1.6
1.8
2.0
Lag

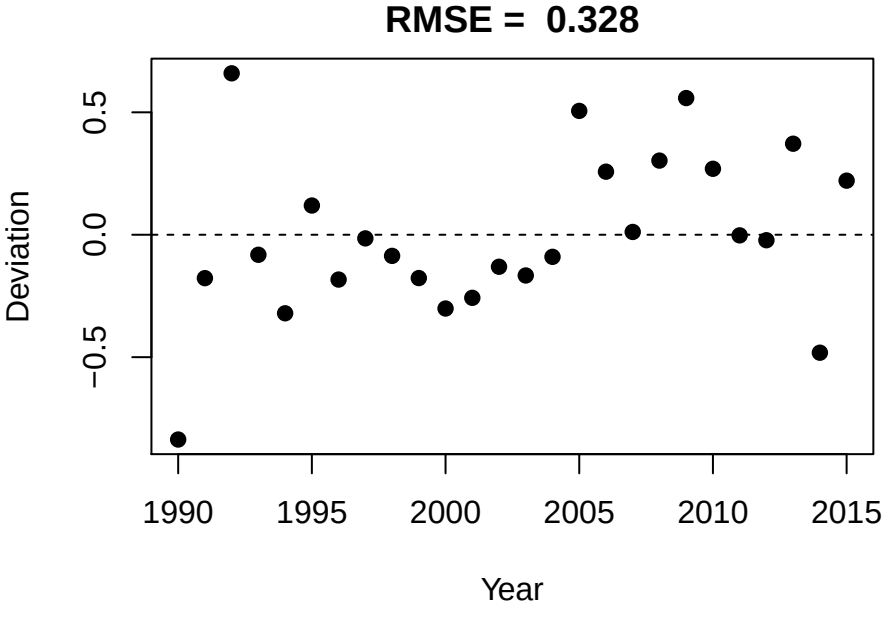
Greater Amberjack SEDAR 33

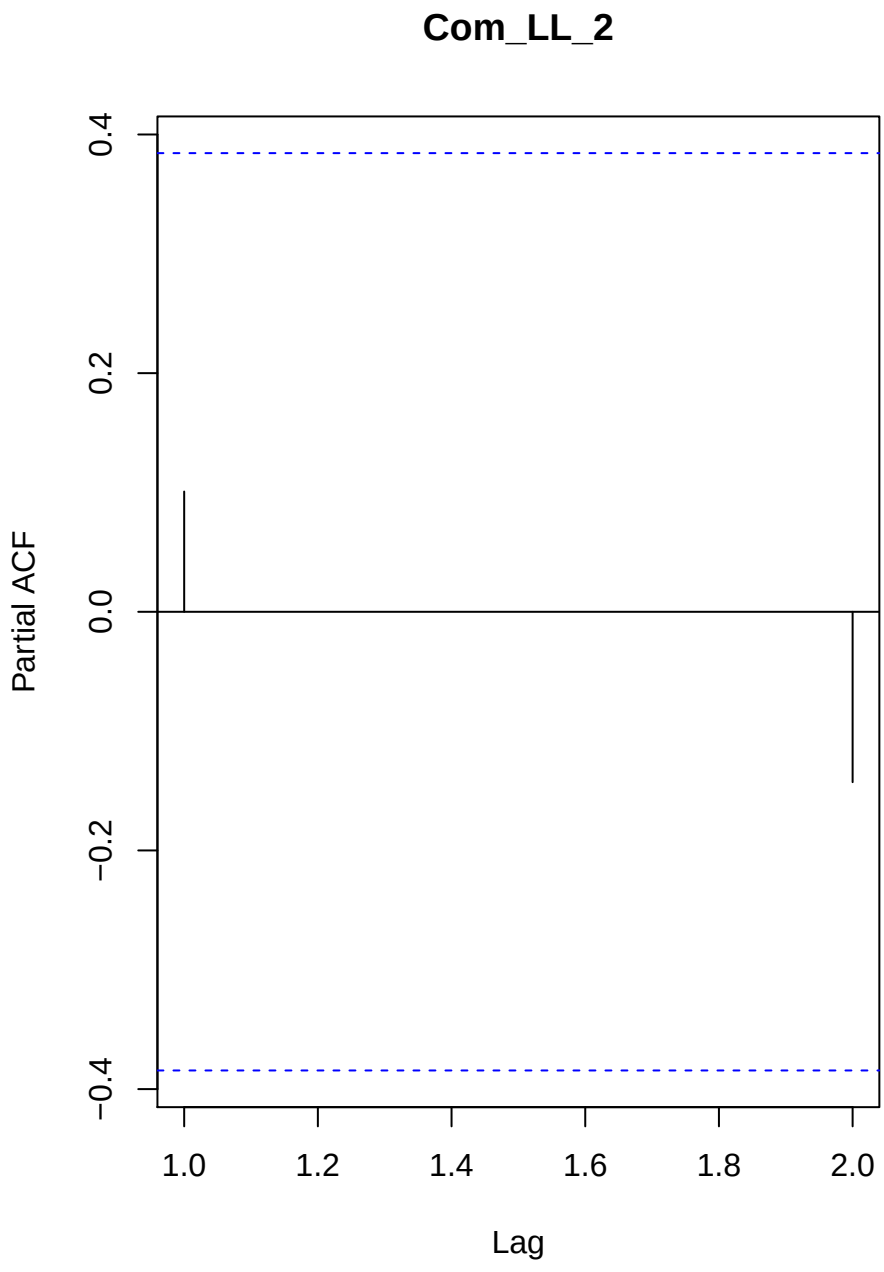

Com_HL_1
Obs.
Exp.
Index of Abundance
1
2
3
4
1990
1995
2000
2005
2010
2015
Year

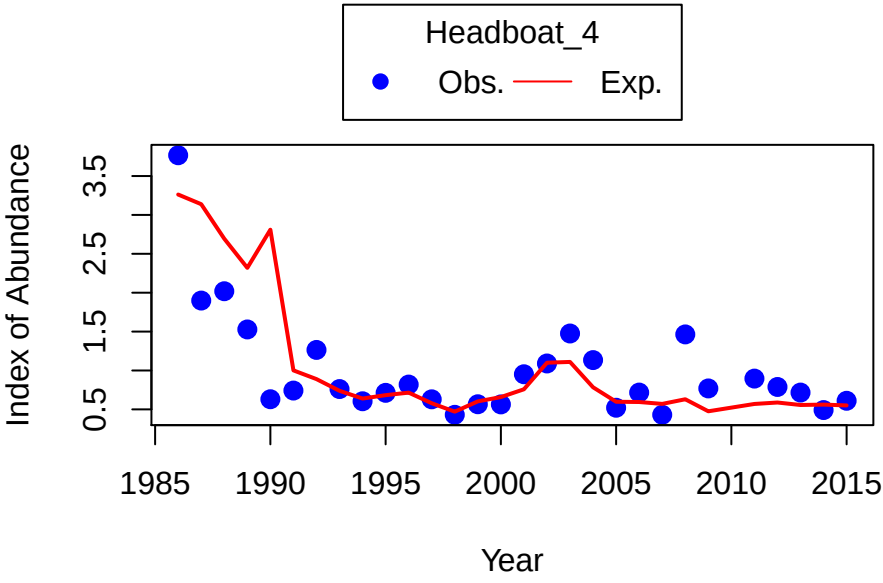

RMSE = 0.266
Deviation
−0.6
−0.2
0.2
0.6
1990
1995
2000
2005
2010
2015
Year

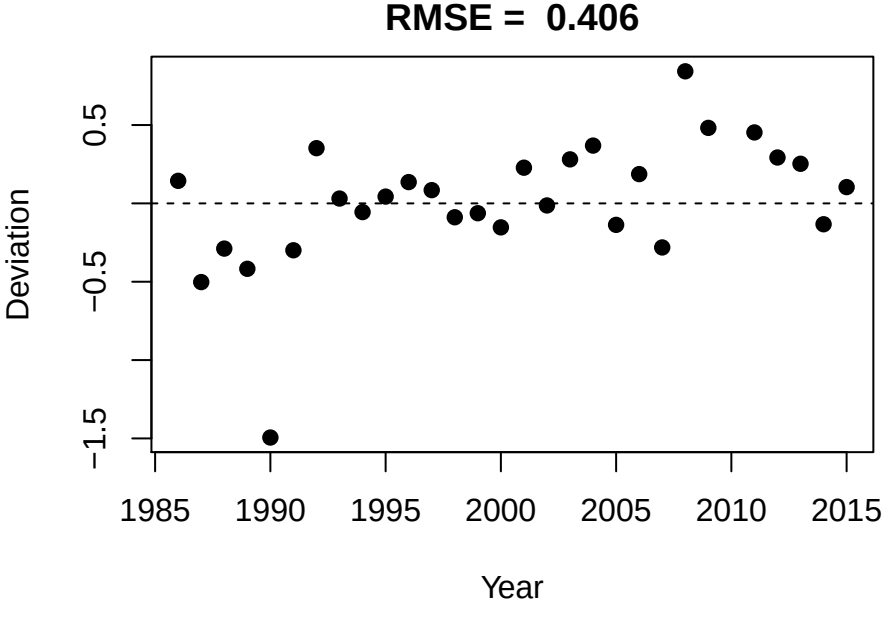

Com_HL_1
Partial ACF
0.4
0.2
0.0
−0.2
−0.4
1.0
1.2
1.4
1.6
1.8
2.0
Lag

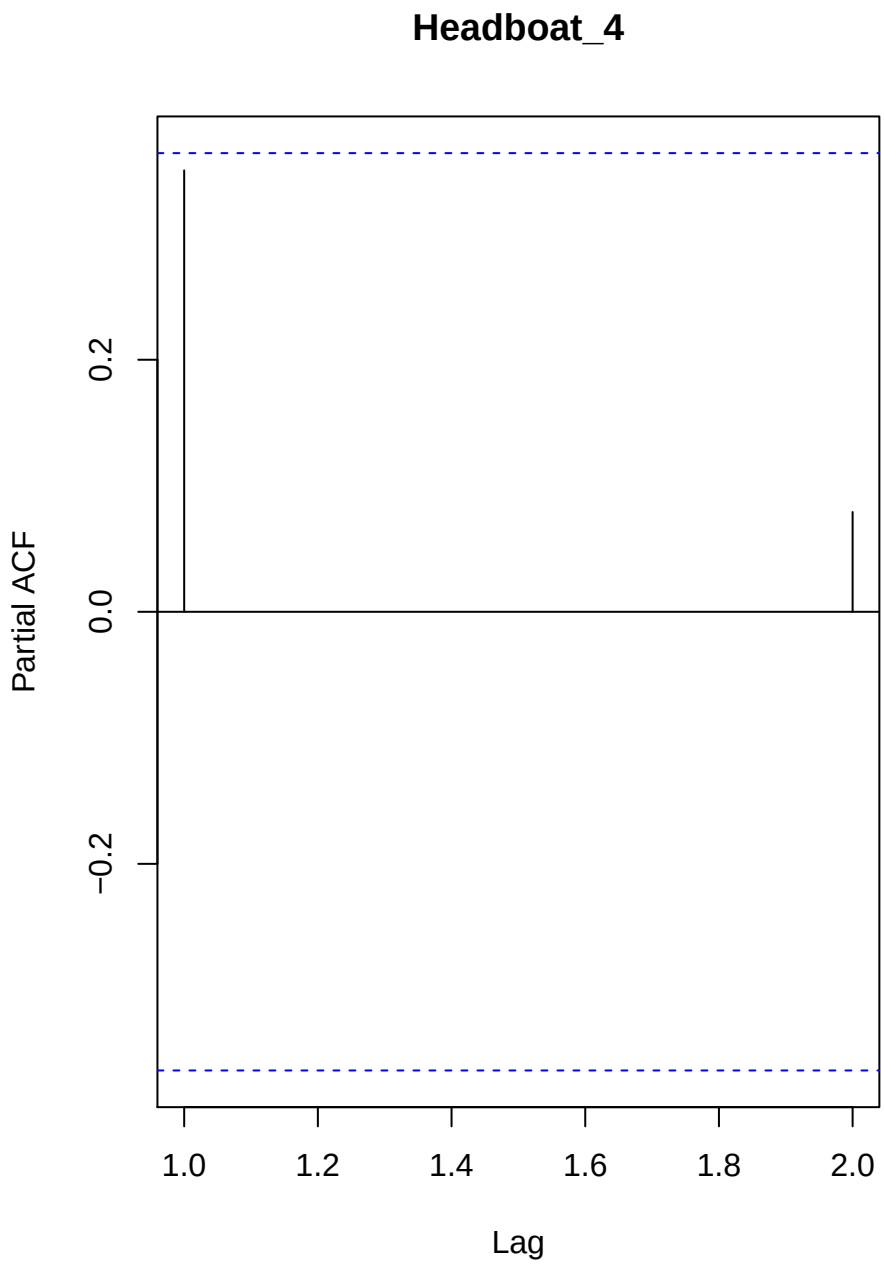

Com_LL_2
Obs.
Exp.
Index of Abundance
0.5
1.5
1990
1995
2000
2005
2010
2015
Year

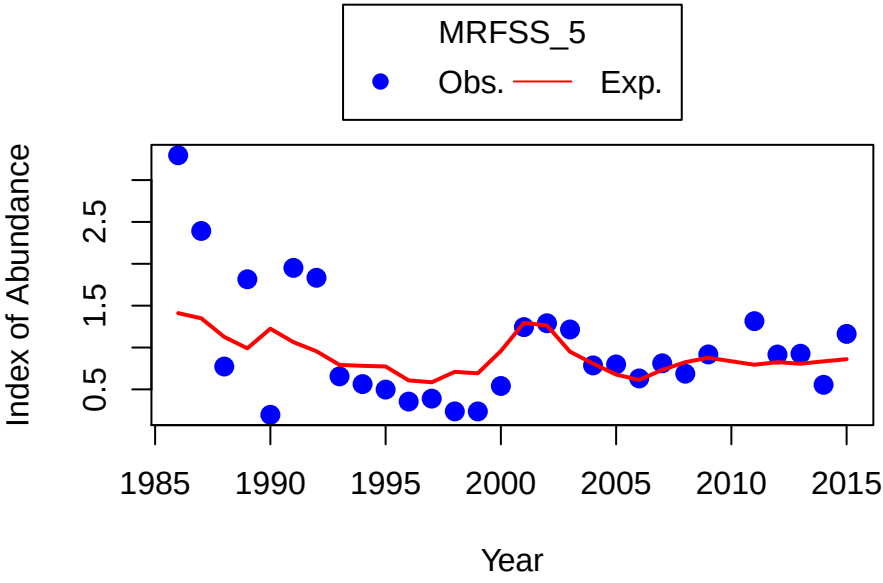

RMSE = 0.328
Deviation
−0.5
0.0
0.5
1990
1995
2000
2005
2010
2015
Year

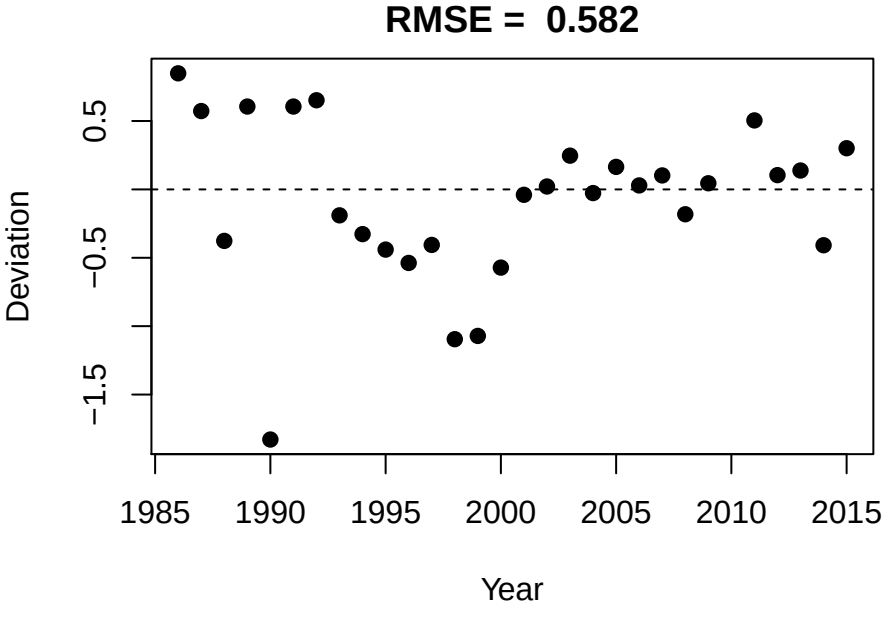

Com_LL_2
Partial ACF
0.4
0.2
0.0
−0.2
−0.4
1.0
1.2
1.4
1.6
1.8
2.0
Lag

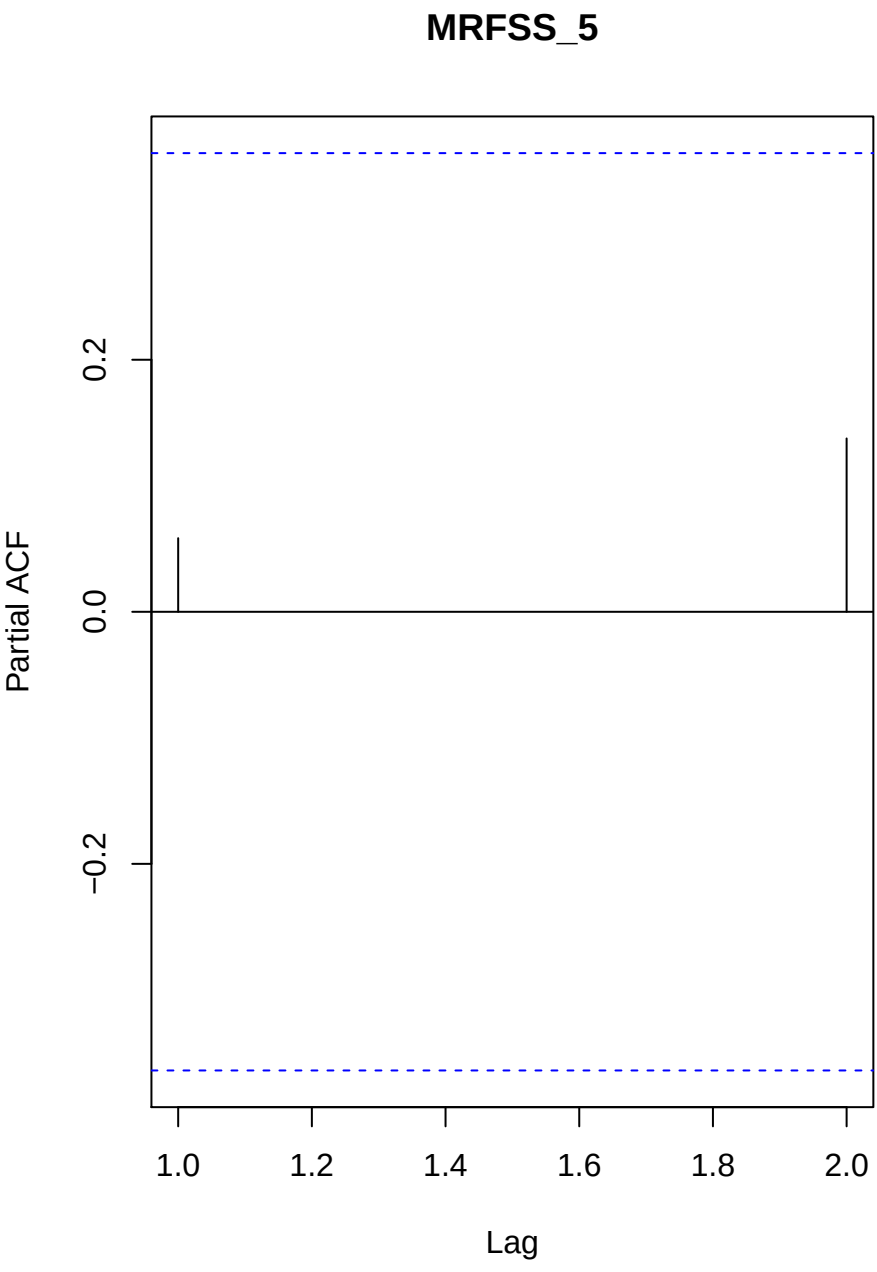

Headboat_4
Obs.
Exp.
Index of Abundance
0.5
1.5
2.5
3.5
1985
1990
1995
2000
2005
2010
2015
Year

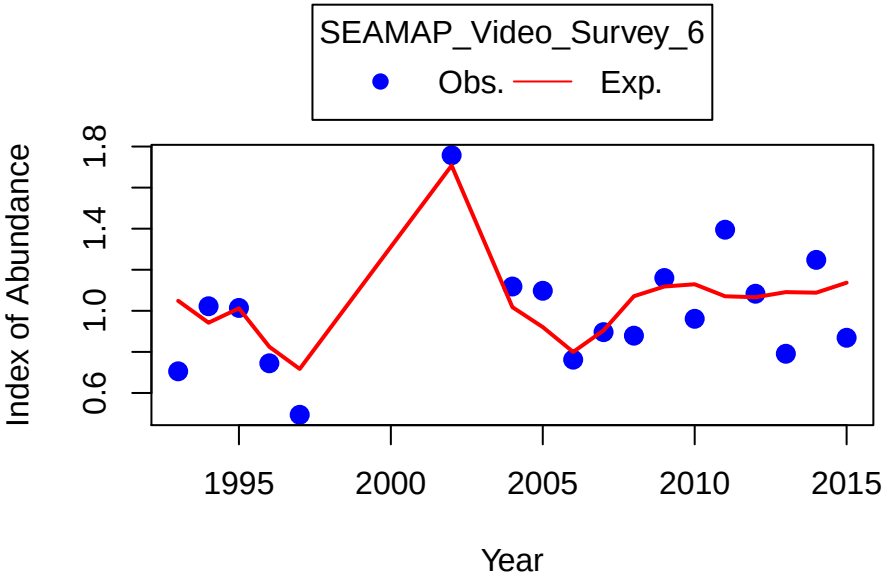

RMSE = 0.406
Deviation
−1.5
−0.5
0.5
1985
1990
1995
2000
2005
2010
2015
Year

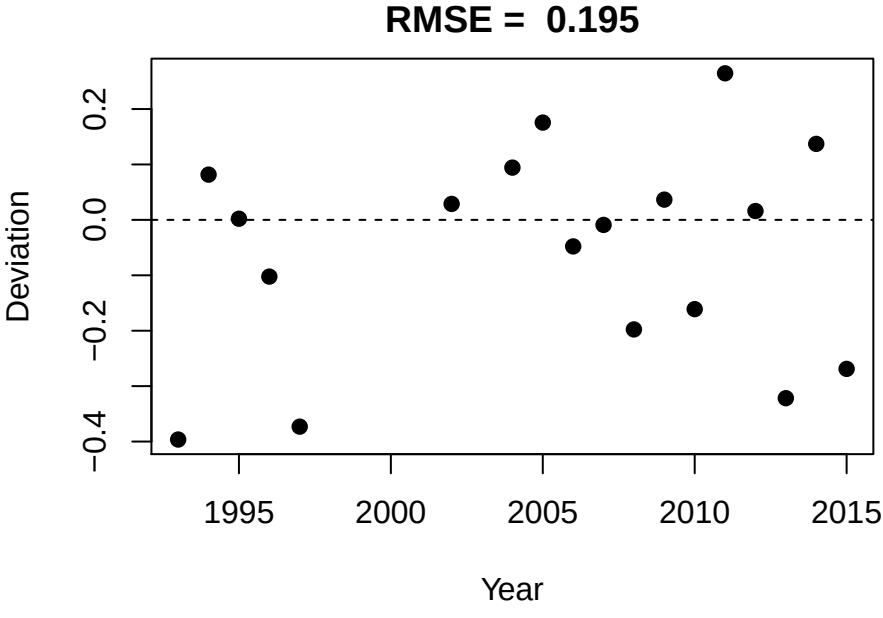

Headboat_4
Partial ACF
0.2
0.0
−0.2
1.0
1.2
1.4
1.6
1.8
2.0
Lag

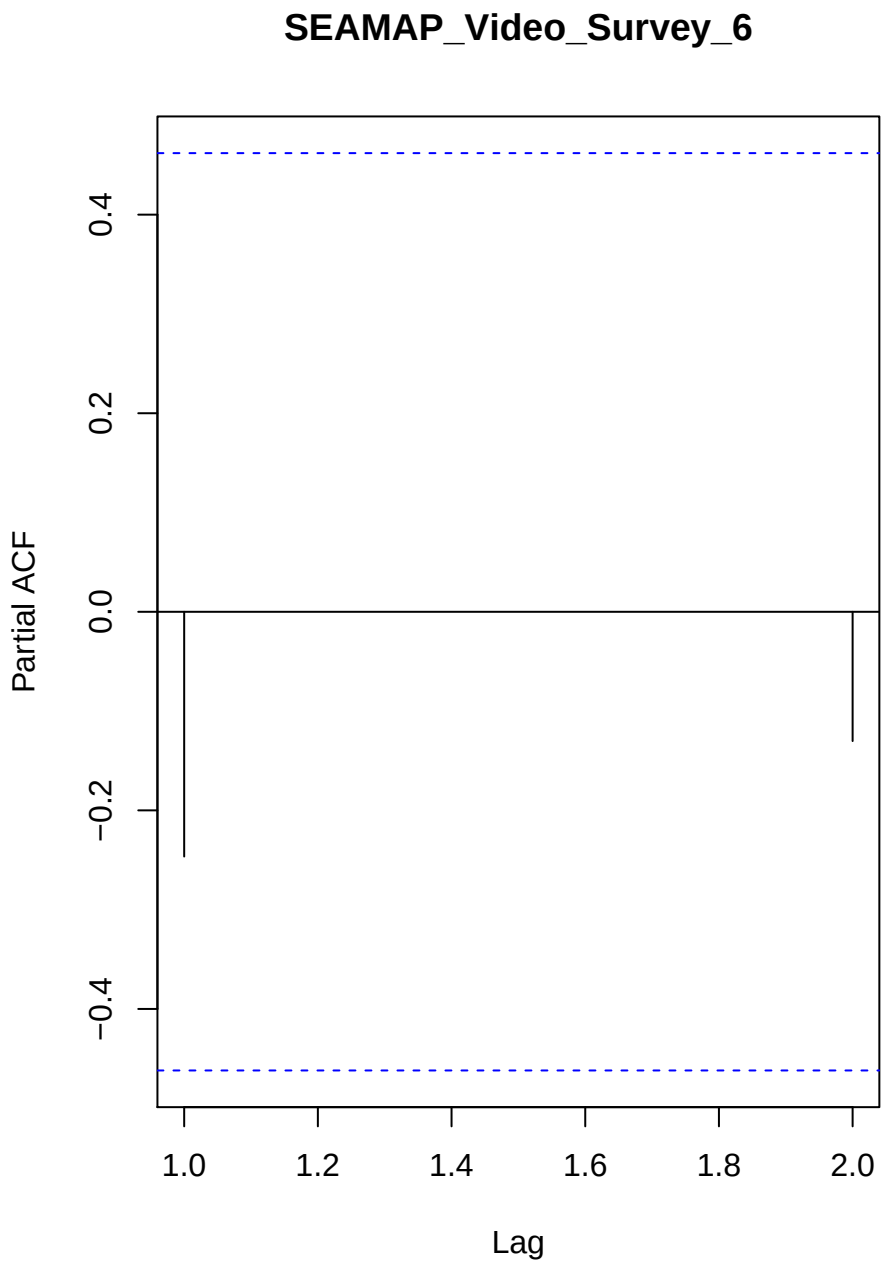

MRFSS_5
Obs.
Exp.
Index of Abundance
0.5
1.5
2.5
1985
1990
1995
2000
2005
2010
2015
Year

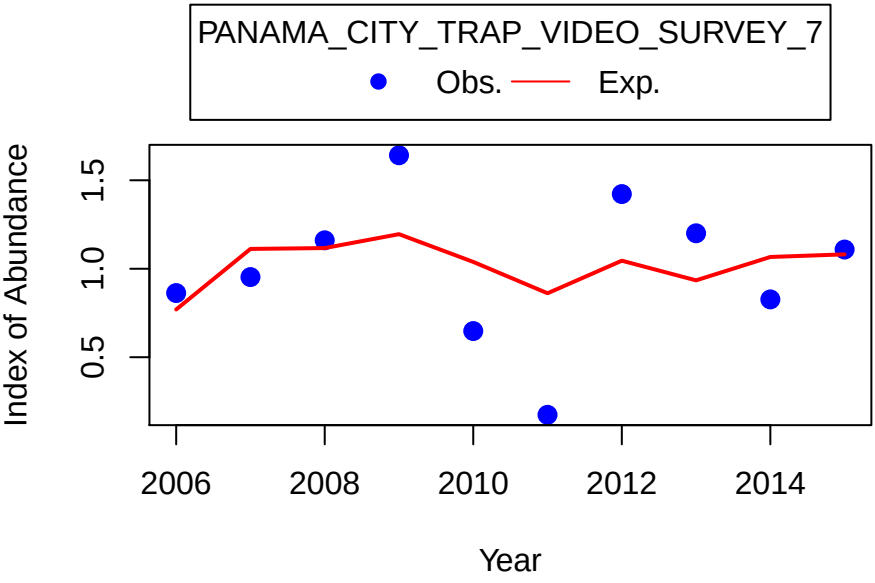

RMSE = 0.582
Deviation
0.5
−0.5
−1.5
1985
1990
1995
2000
2005
2010
2015
Year

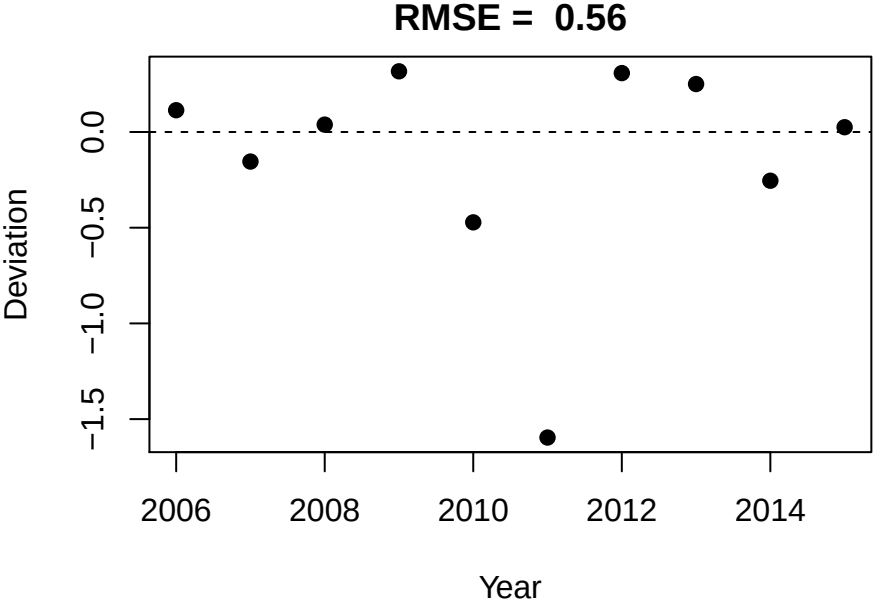

MRFSS_5
Partial ACF
0.2
0.0
−0.2
1.0
1.2
1.4
1.6
1.8
2.0
Lag

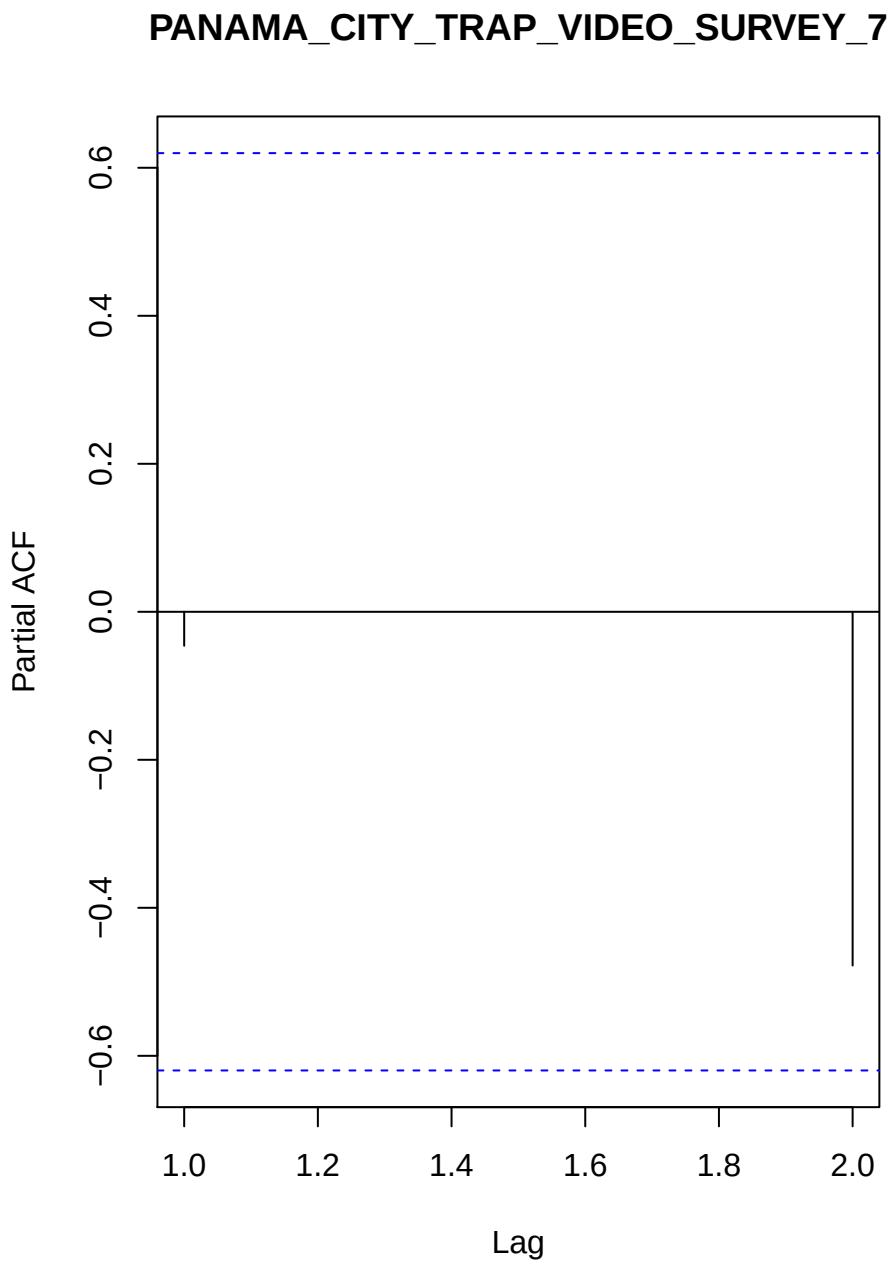

SEAMAP_Video_Survey_6
Obs.
Exp.
Index of Abundance
0.6
1.0
1.4
1.8
1995
2000
2005
2010
2015
Year


RMSE = 0.195
Deviation
−0.4
−0.2
0.0
0.2
1995
2000
2005
2010
2015
Year

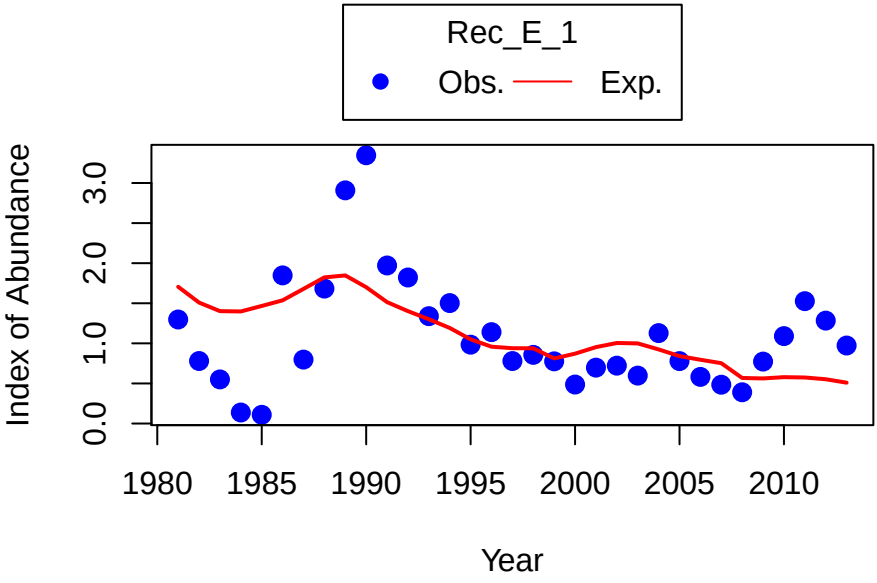

SEAMAP_Video_Survey_6
Partial ACF
0.4
0.2
0.0
−0.2
−0.4
1.0
1.2
1.4
1.6
1.8
2.0
Lag

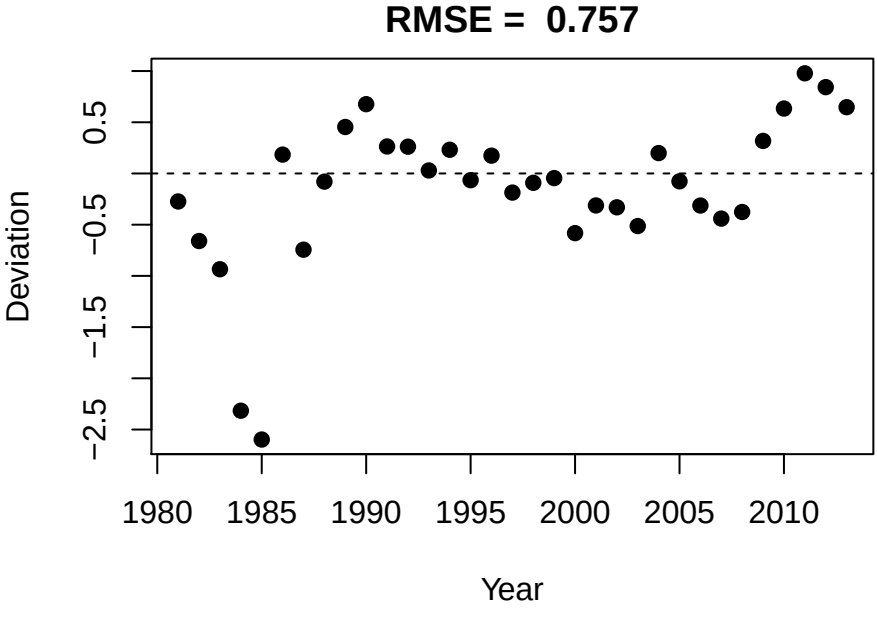

PANAMA_CITY_TRAP_VIDEO_SURVEY_7
Obs.
Exp.
Index of Abundance
0.5
1.0
1.5
2006
2008
2010
2012
2014
Year

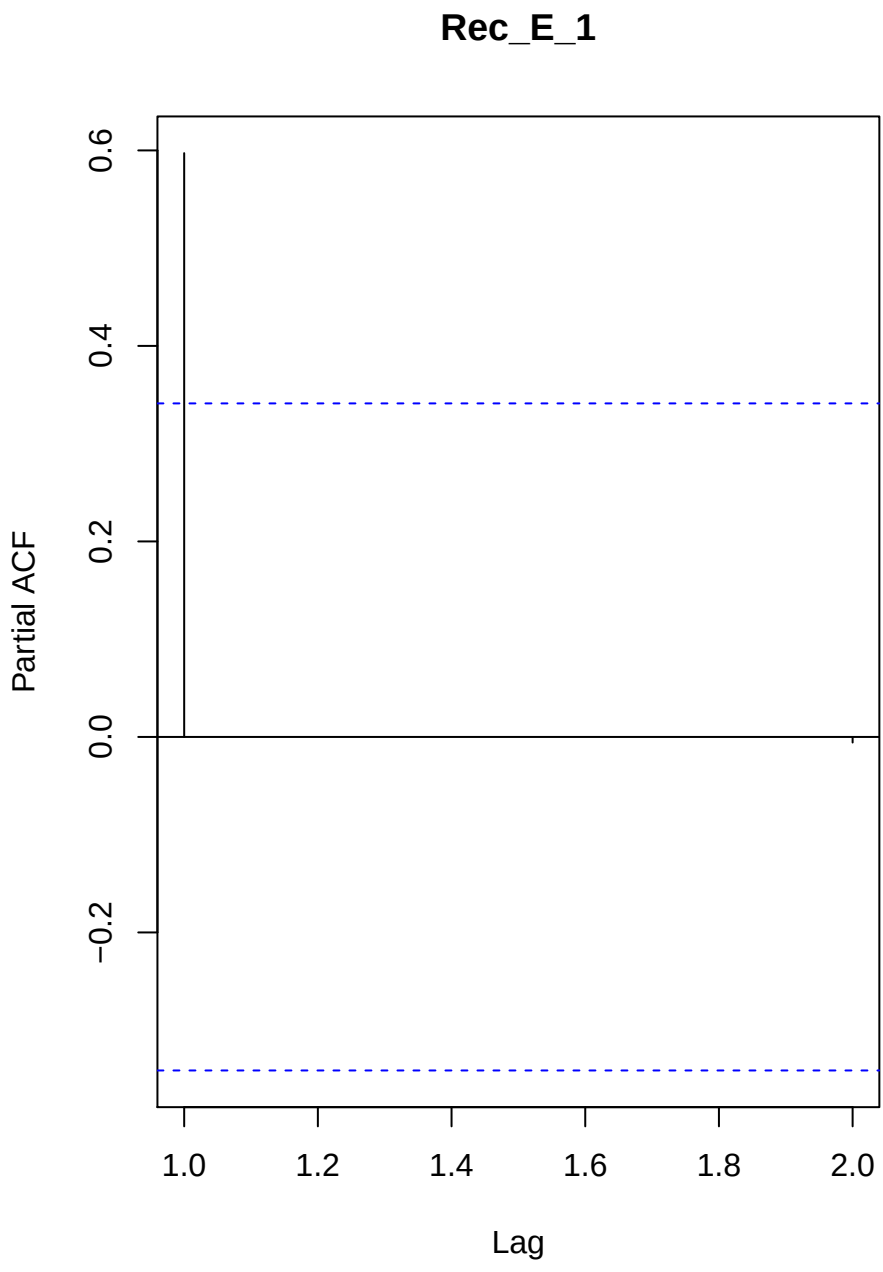

RMSE = 0.56
Deviation
−1.5
−1.0
−0.5
0.0
2006
2008
2010
2012
2014
Year

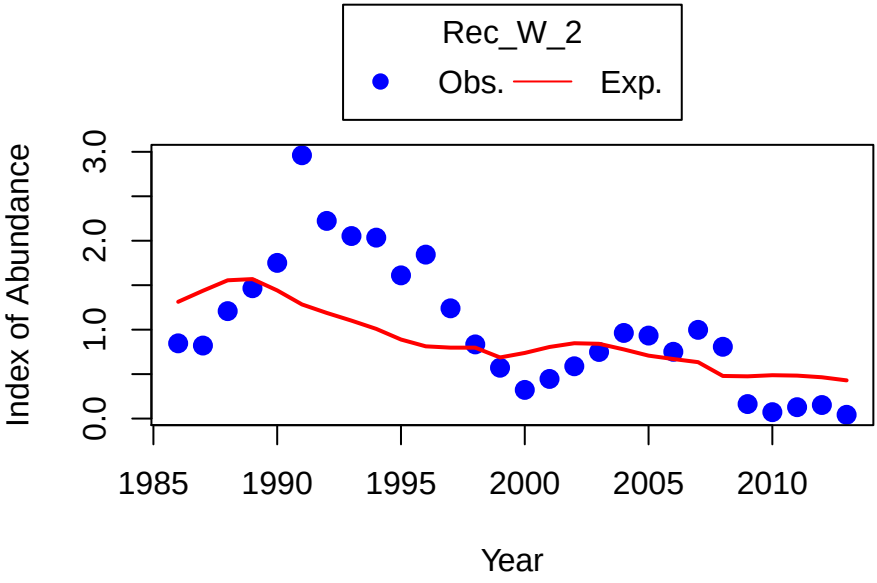

PANAMA_CITY_TRAP_VIDEO_SURVEY_7
Partial ACF
0.6
0.4
0.2
0.0
−0.2
−0.4
−0.6
1.0
1.2
1.4
1.6
1.8
2.0
Lag

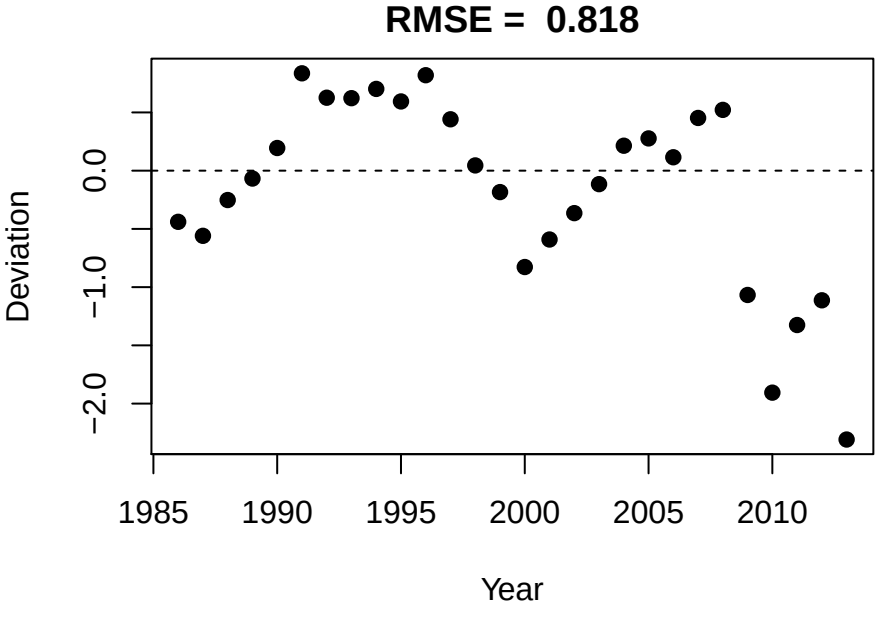
Gray Trigger SEDAR 43

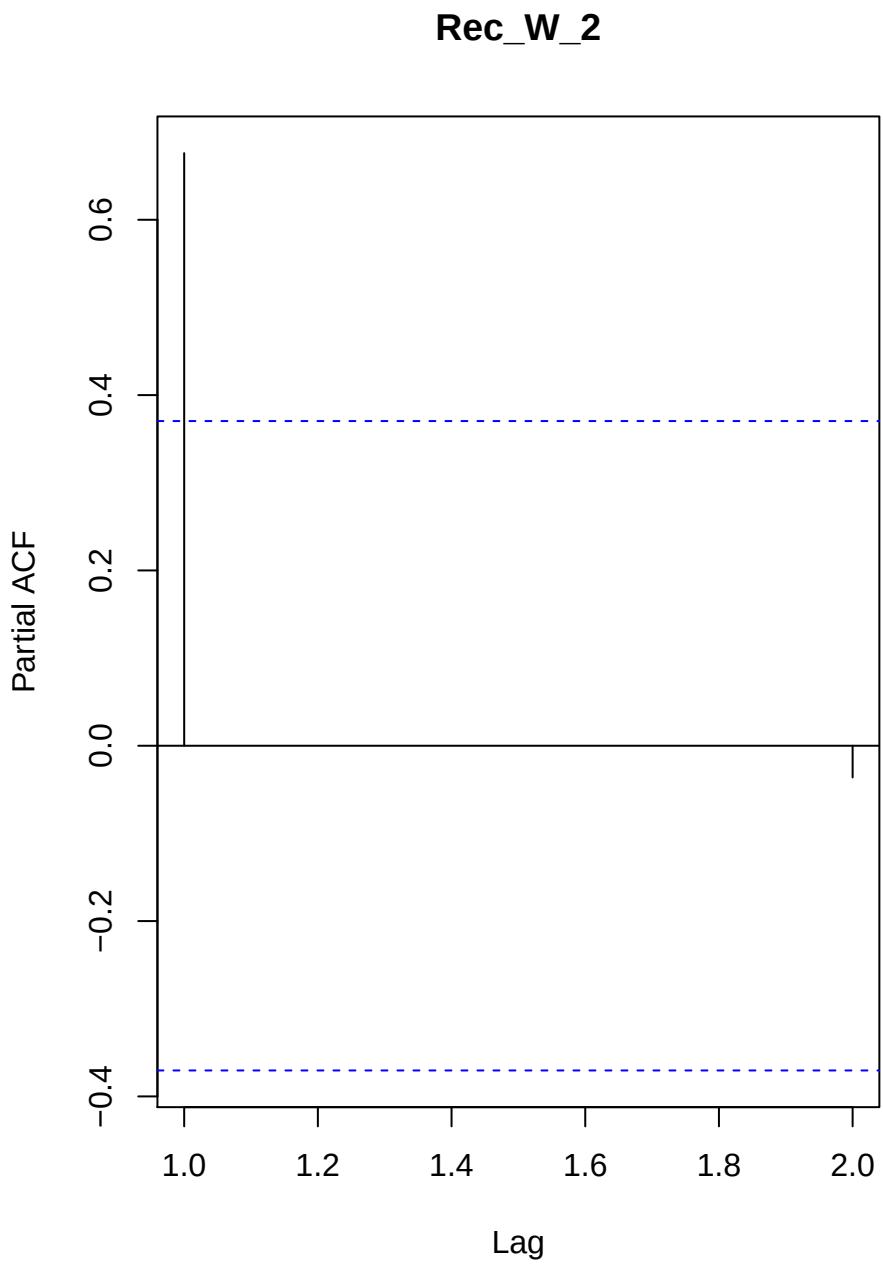

Rec_E_1
Obs.
Exp.
Index of Abundance
0.0
1.0
2.0
3.0
1980
1985
1990
1995
2000
2005
2010
Year

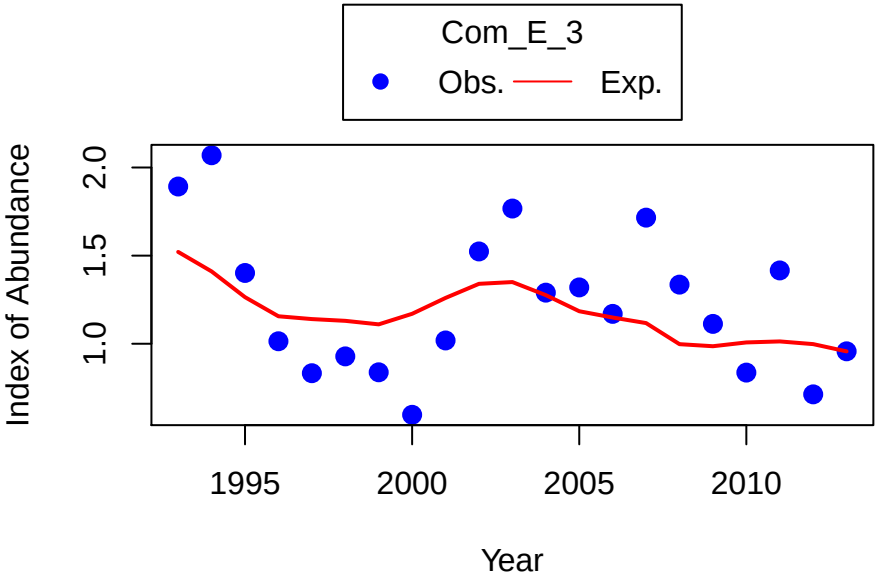

RMSE = 0.757
Deviation
−2.5
−1.5
−0.5
0.5
1980
1985
1990
1995
2000
2005
2010
Year

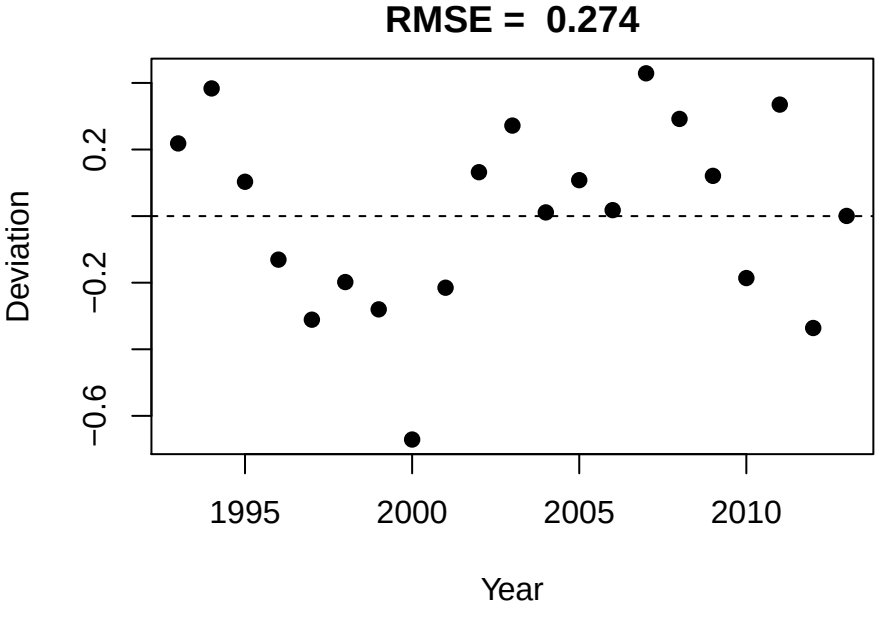

Rec_E_1
Partial ACF
0.6
0.4
0.2
0.0
−0.2
1.0
1.2
1.4
1.6
1.8
2.0
Lag

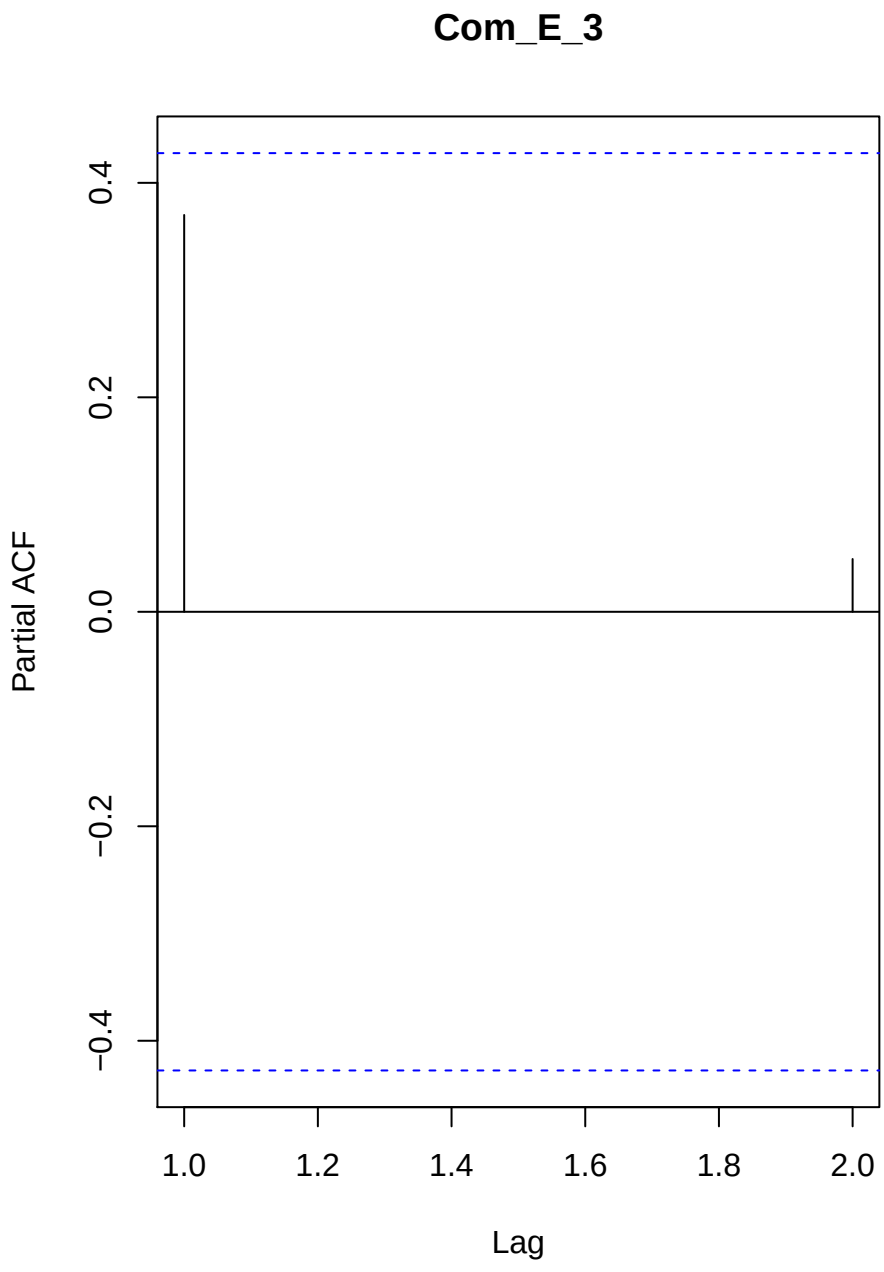

Rec_W_2
Obs.
Exp.
Index of Abundance
0.0
1.0
2.0
3.0
1985
1990
1995
2000
2005
2010
Year

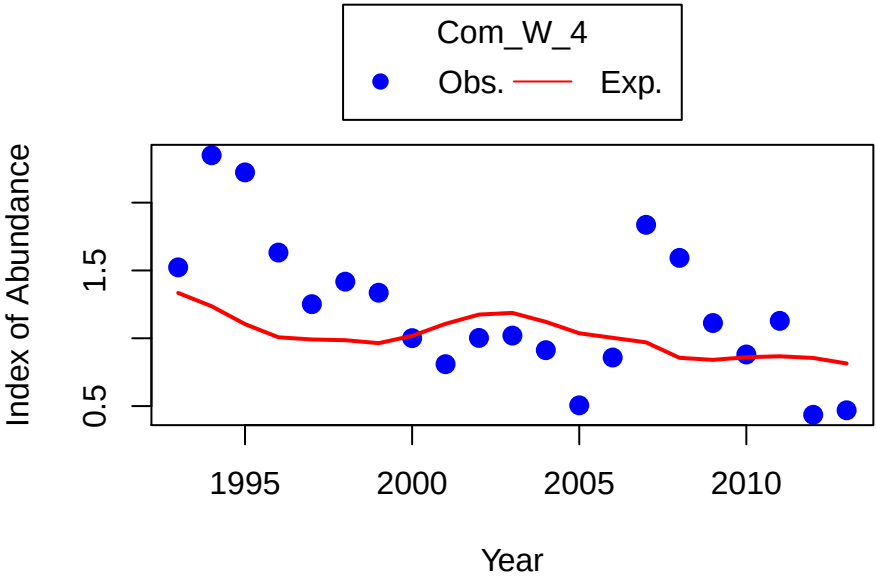

RMSE = 0.818
Deviation
0.0
−1.0
−2.0
1985
1990
1995
2000
2005
2010
Year

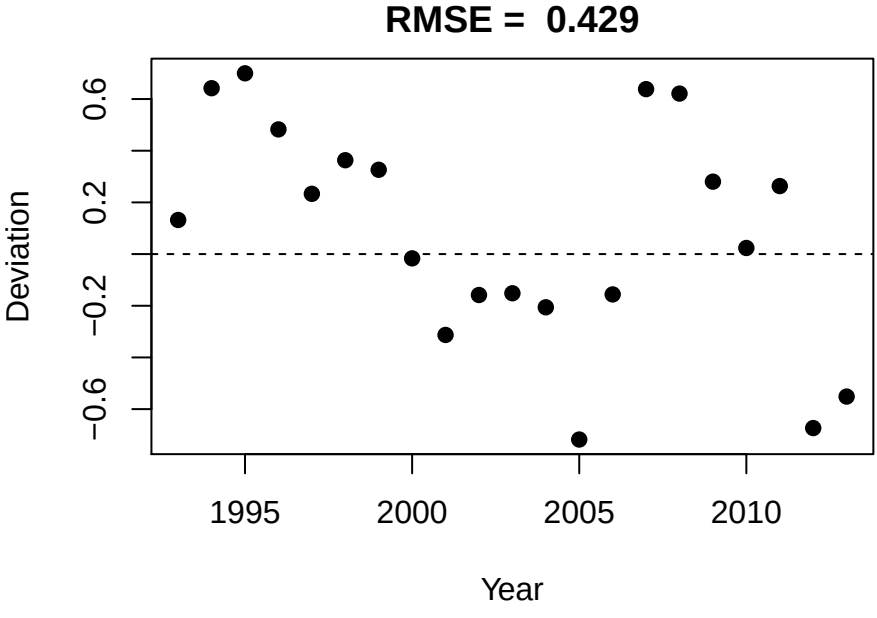

Rec_W_2
Partial ACF
0.6
0.4
0.2
0.0
−0.2
−0.4
1.0
1.2
1.4
1.6
1.8
2.0
Lag

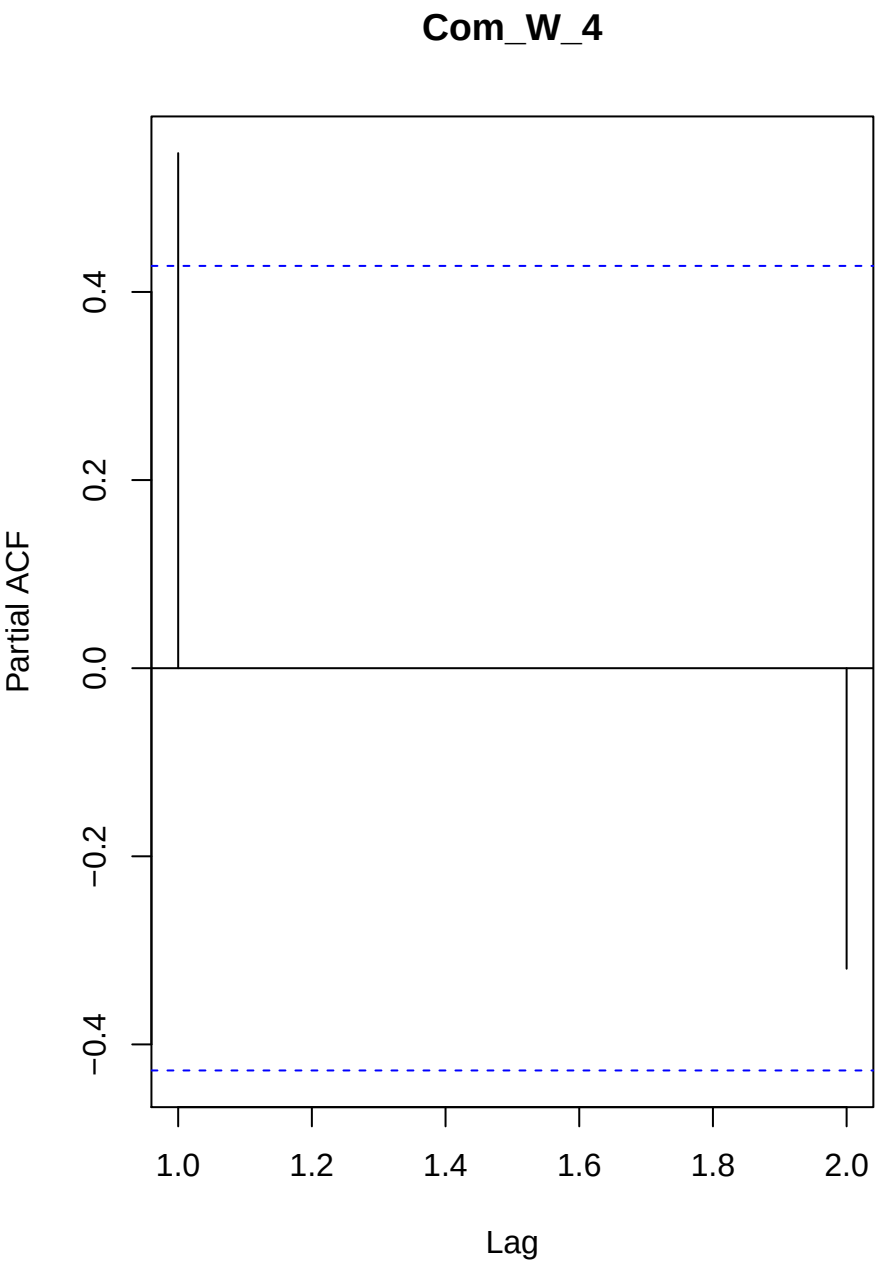

Com_E_3
Obs.
Exp.
Index of Abundance
2.0
1.5
1.0
1995
2000
2005
2010
Year

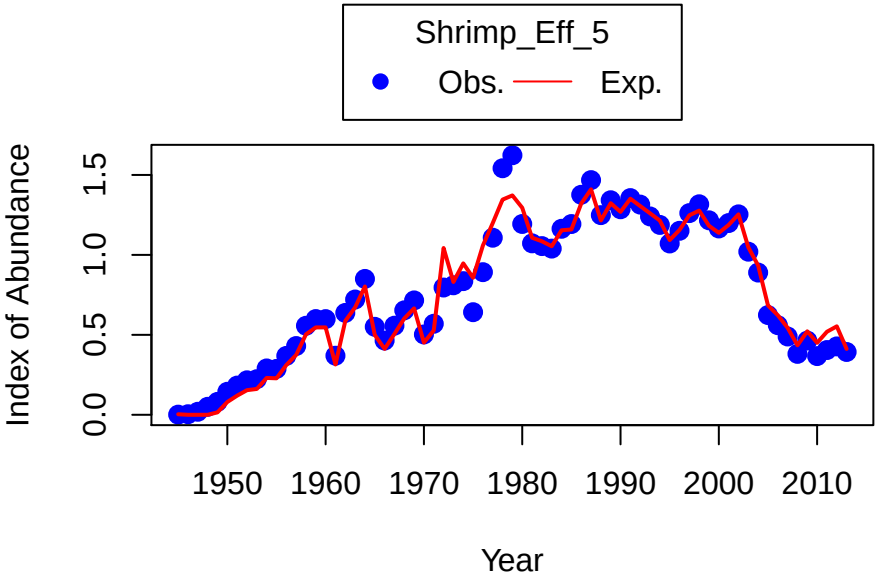

RMSE = 0.274
Deviation
0.2
−0.2
−0.6
1995
2000
2005
2010
Year

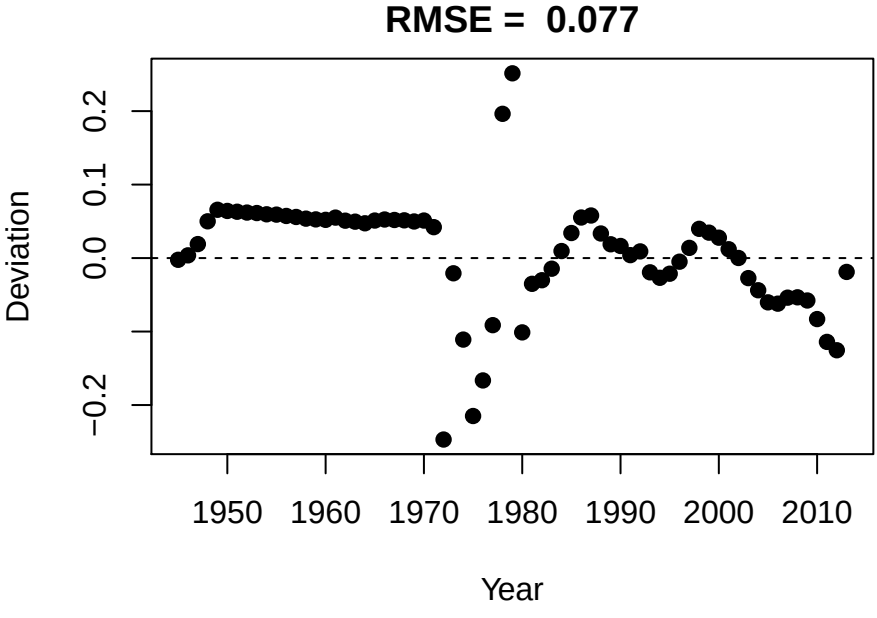

Com_E_3
Partial ACF
0.4
0.2
0.0
−0.2
−0.4
1.0
1.2
1.4
1.6
1.8
2.0
Lag

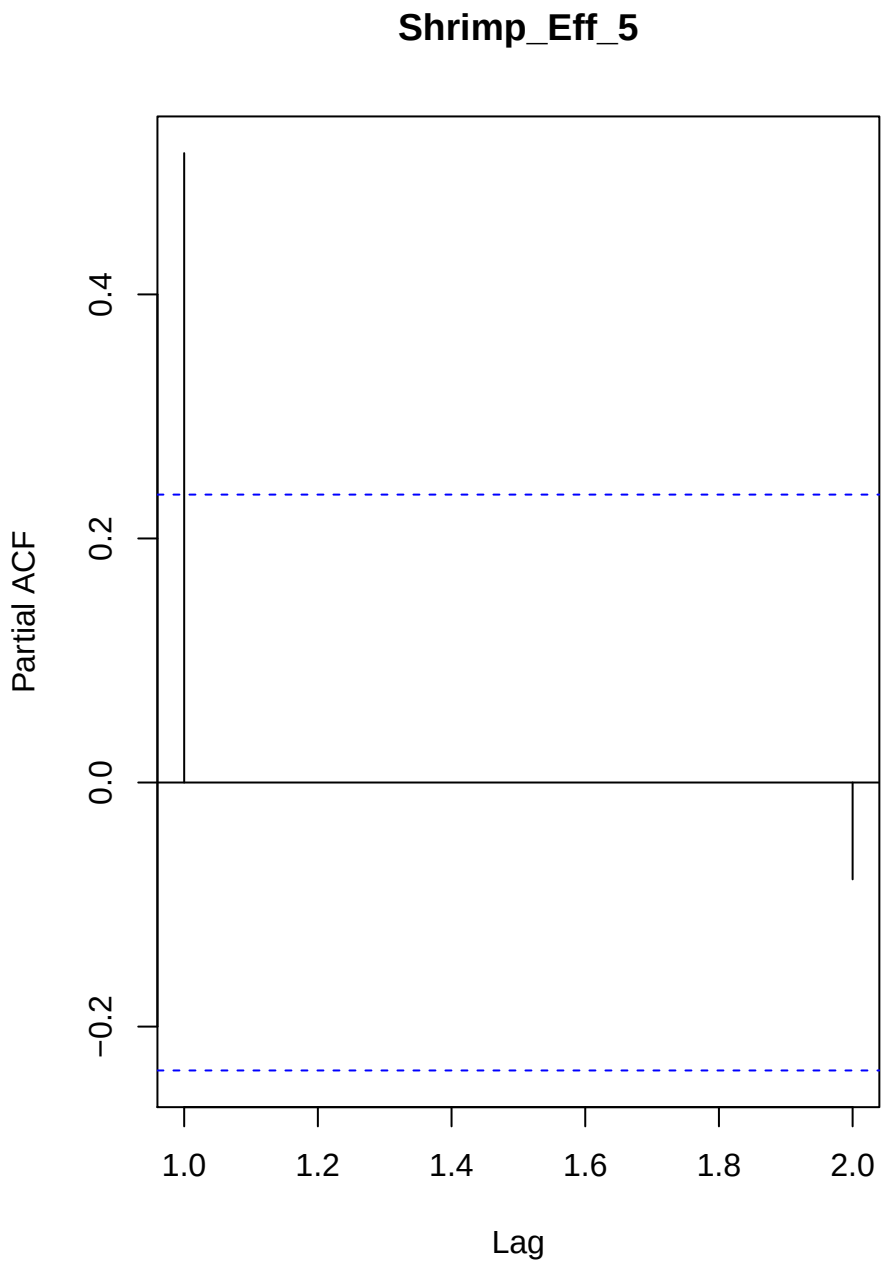

Com_W_4
Obs.
Exp.
Index of Abundance
0.5
1.5
1995
2000
2005
2010
Year

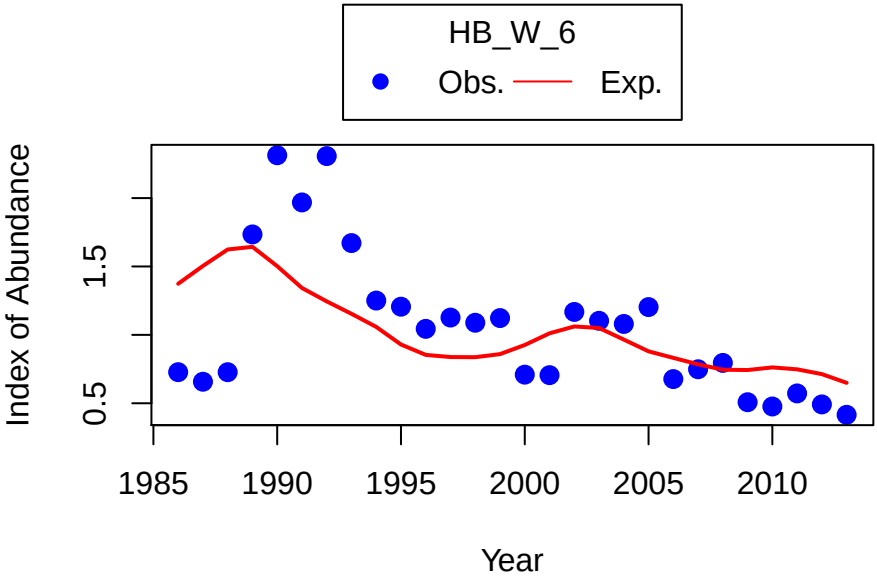

RMSE = 0.429
Deviation
−0.6
−0.2
0.2
0.6
1995
2000
2005
2010
Year

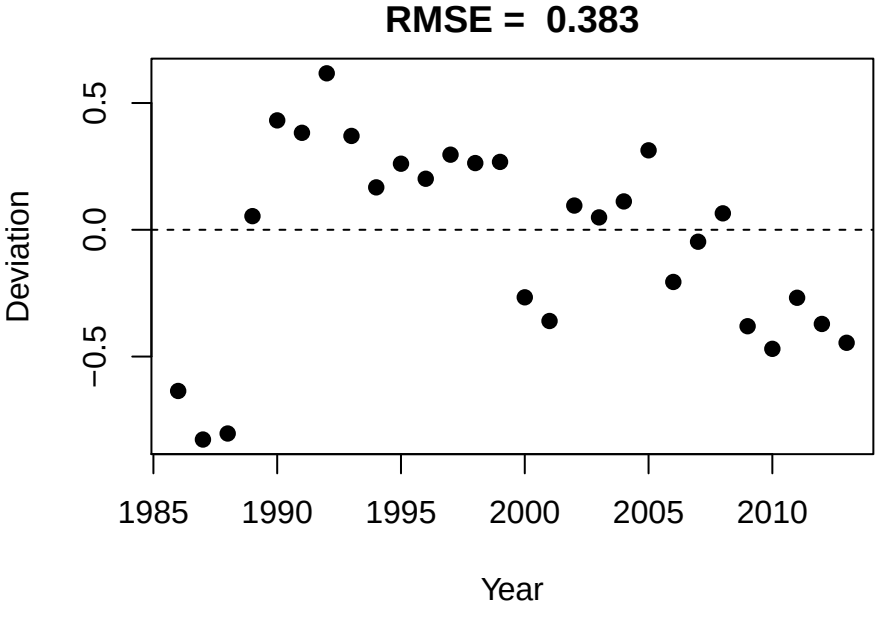

Com_W_4
Partial ACF
0.4
0.2
0.0
−0.2
−0.4
1.0
1.2
1.4
1.6
1.8
2.0
Lag

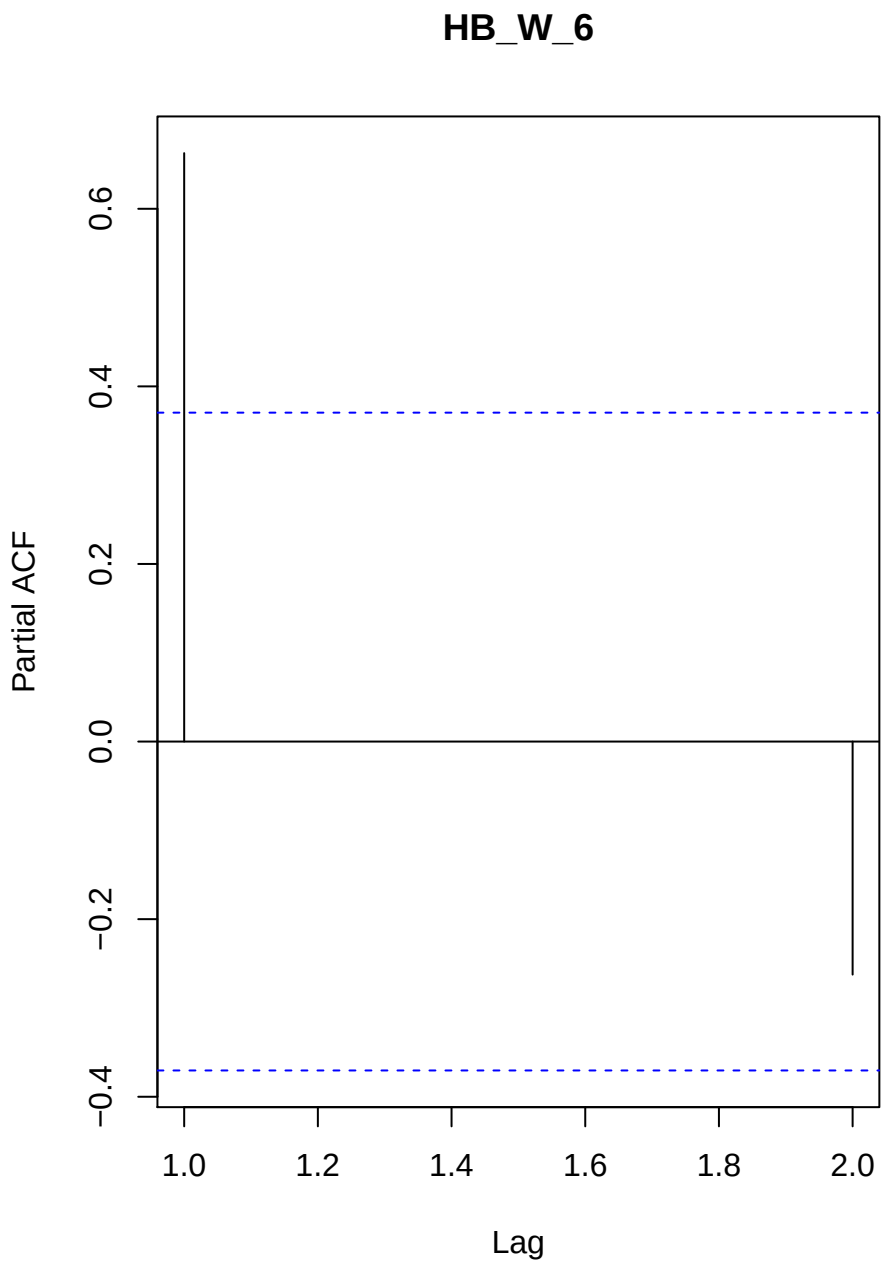

Shrimp_Eff_5
Obs.
Exp.
Index of Abundance
0.0
0.5
1.0
1.5
1950
1960
1970
1980
1990
2000
2010
Year

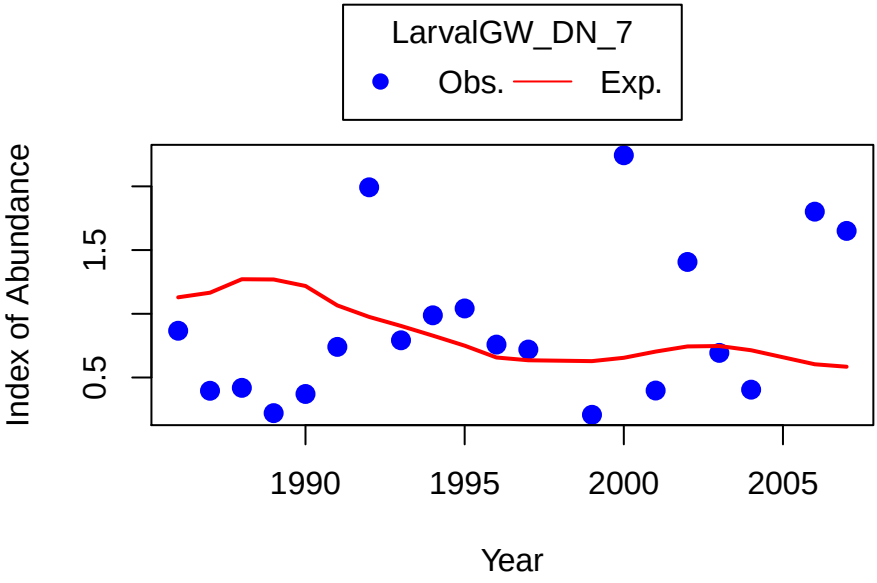

RMSE = 0.077
Deviation
−0.2
0.0
0.1
0.2
1950
1960
1970
1980
1990
2000
2010
Year

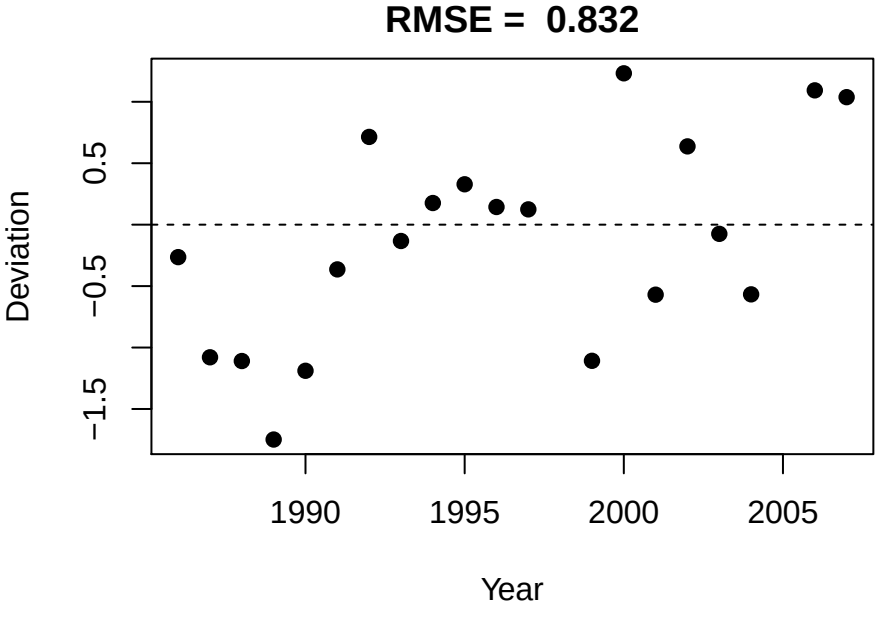

Shrimp_Eff_5
Partial ACF
0.4
0.2
0.0
−0.2
1.0
1.2
1.4
1.6
1.8
2.0
Lag

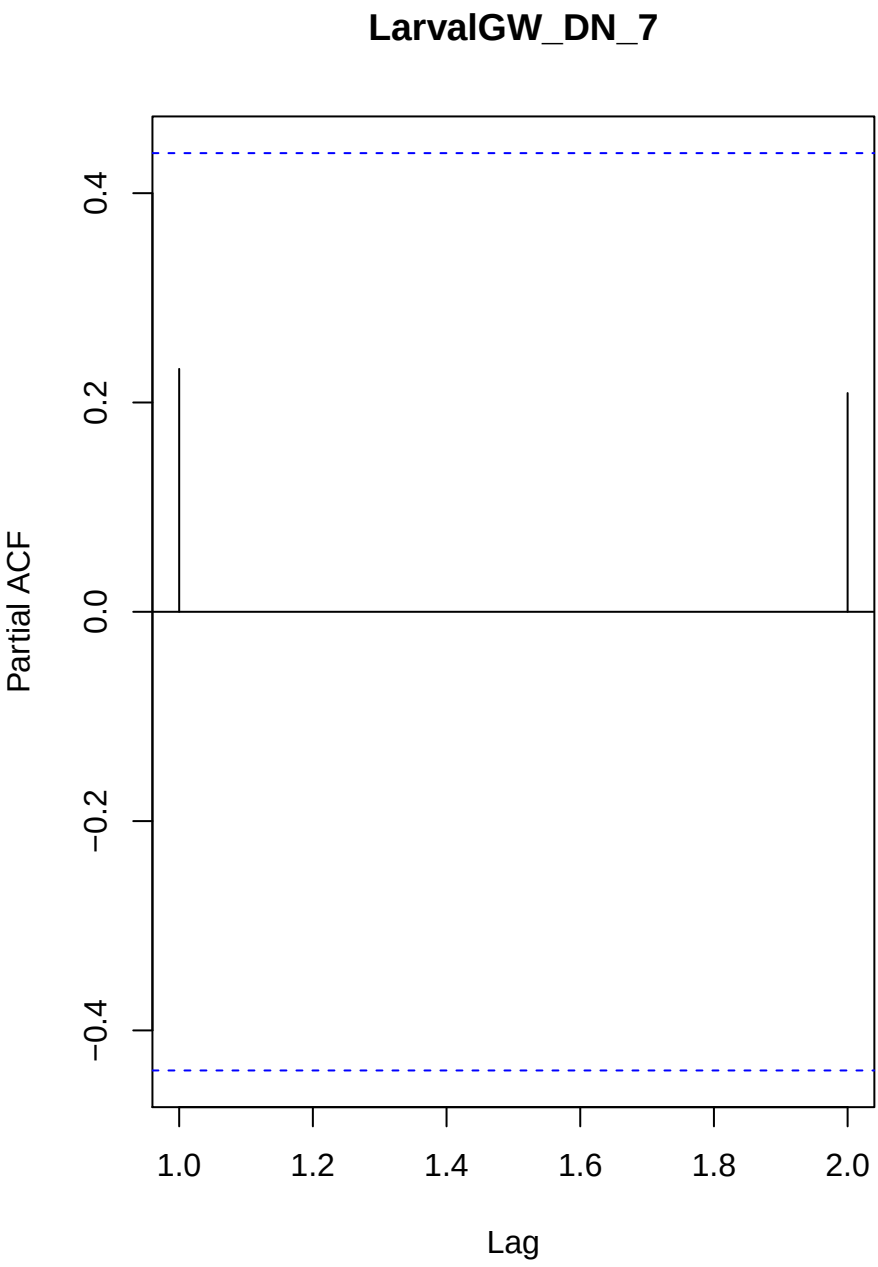

HB_W_6
Obs.
Exp.
Index of Abundance
0.5
1.5
1985
1990
1995
2000
2005
2010
Year

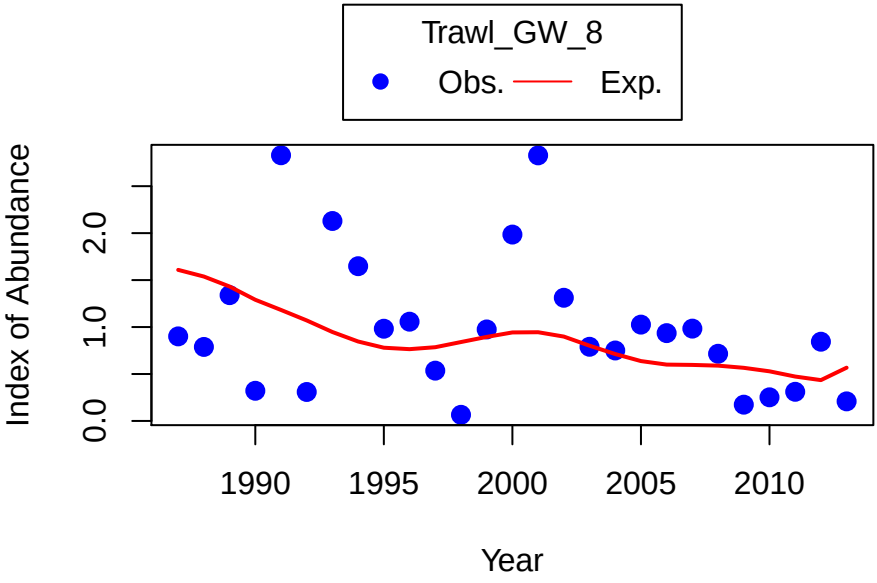

RMSE = 0.383
Deviation
−0.5
0.0
0.5
1985
1990
1995
2000
2005
2010
Year

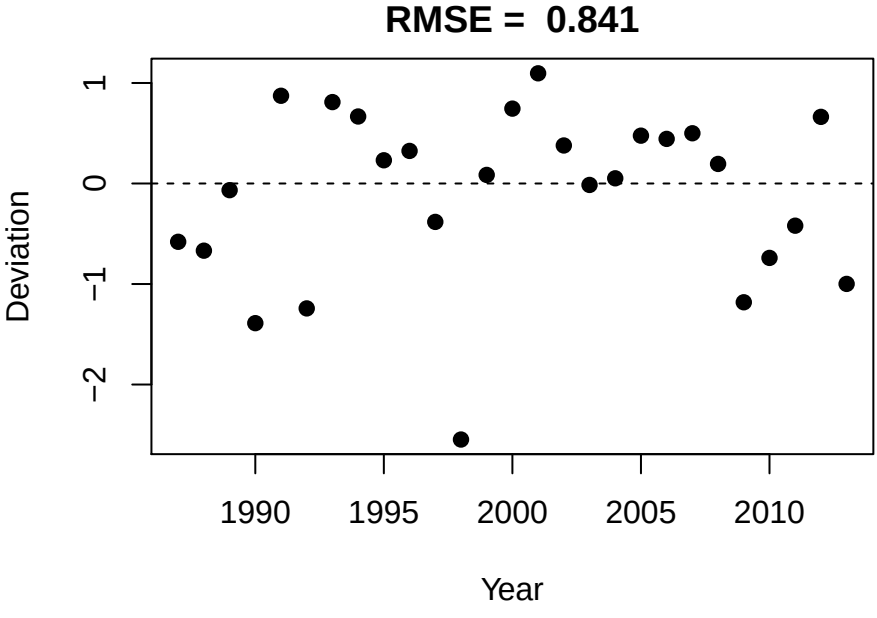

HB_W_6
Partial ACF
0.6
0.4
0.2
0.0
−0.2
−0.4
1.0
1.2
1.4
1.6
1.8
2.0
Lag

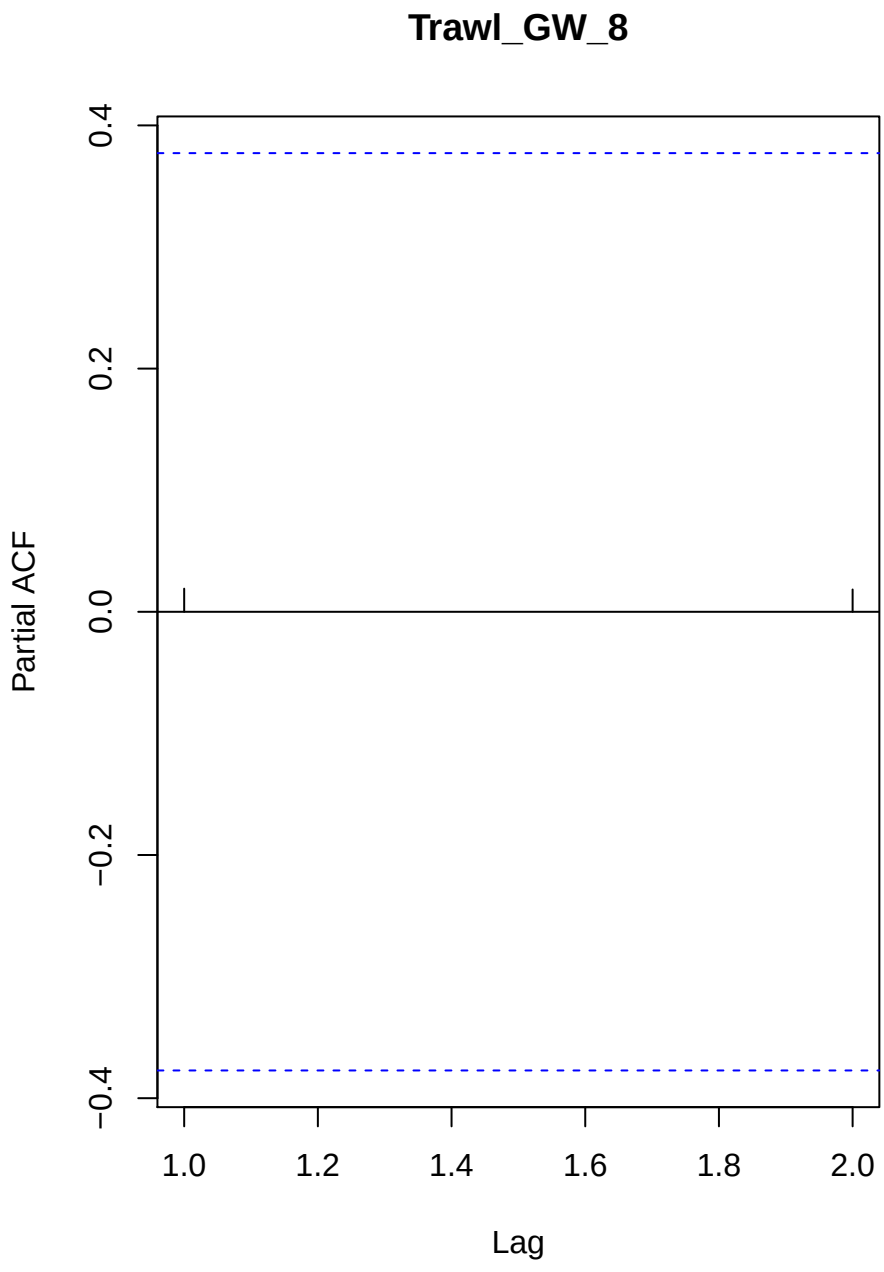

LarvalGW_DN_7
Obs.
Exp.
Index of Abundance
0.5
1.5
1990
1995
2000
2005
Year

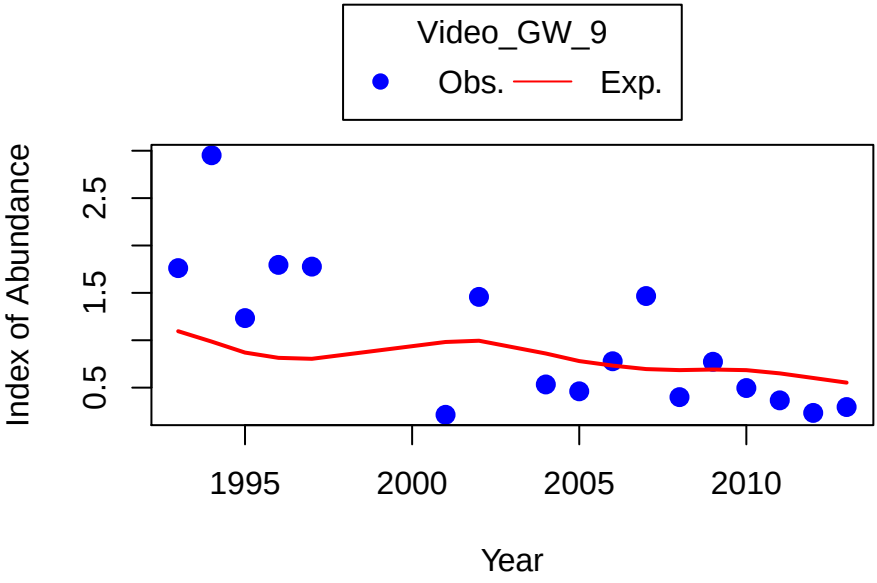

RMSE = 0.832
Deviation
0.5
−0.5
−1.5
1990
1995
2000
2005
Year

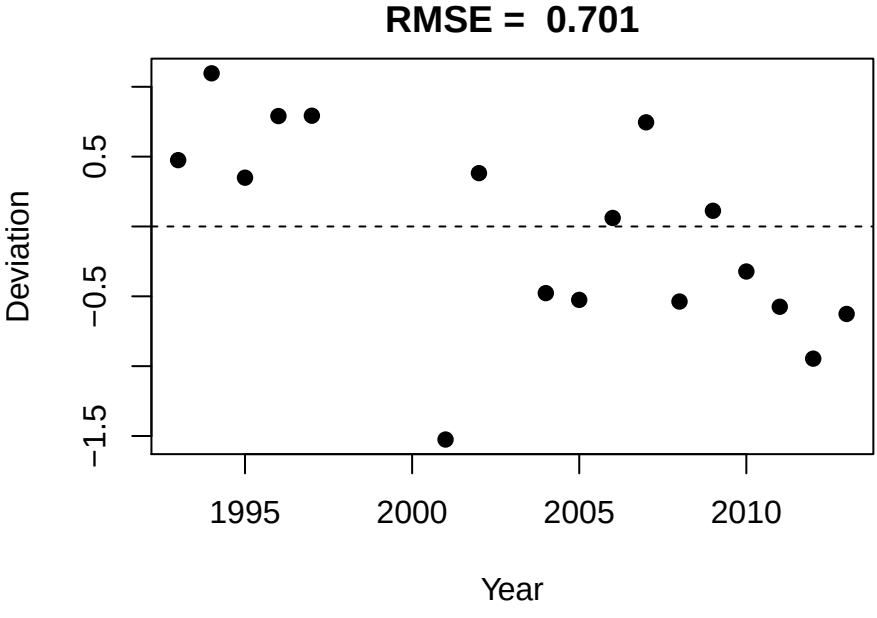

LarvalGW_DN_7
Partial ACF
0.4
0.2
0.0
−0.2
−0.4
1.0
1.2
1.4
1.6
1.8
2.0
Lag

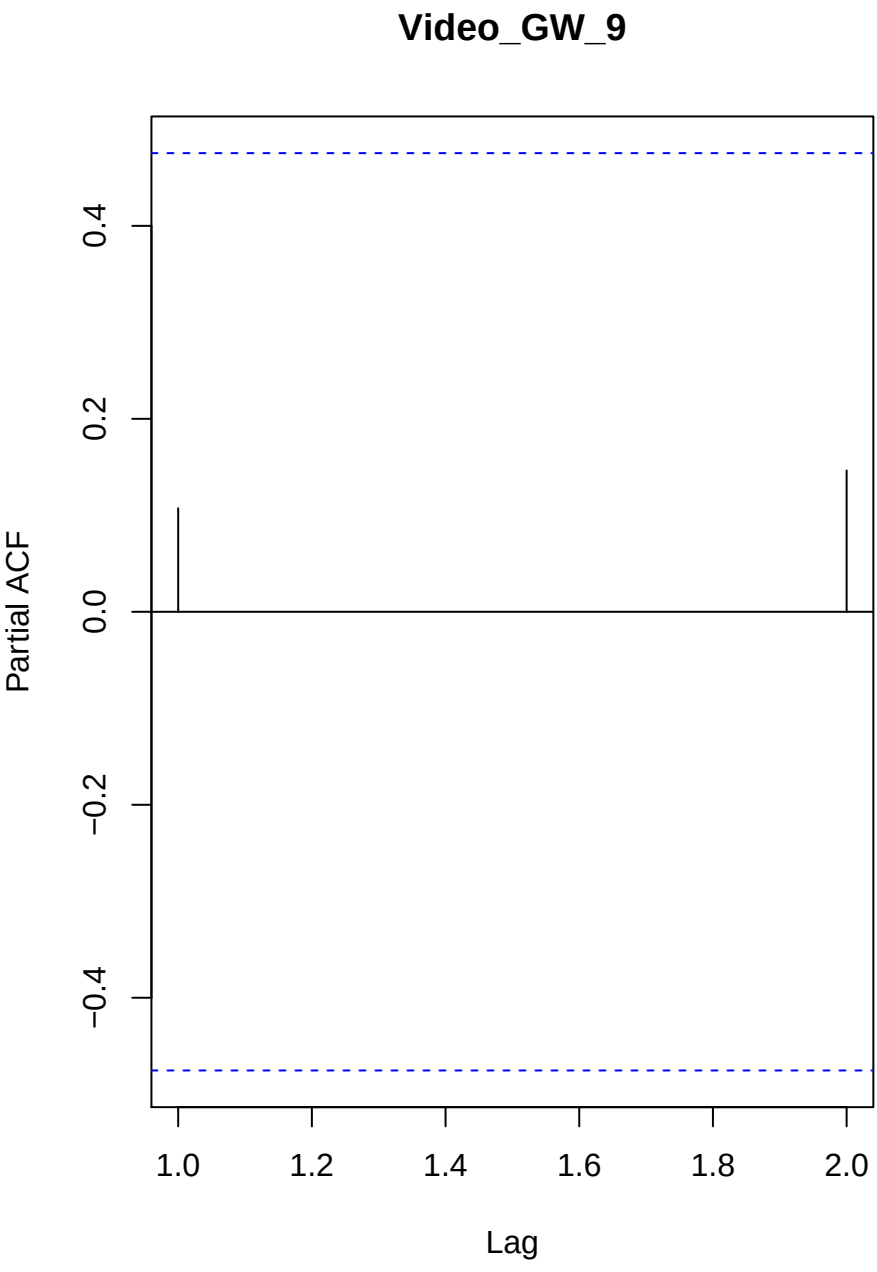

Trawl_GW_8
Obs.
Exp.
Index of Abundance
0.0
1.0
2.0
1990
1995
2000
2005
2010
Year


RMSE = 0.841
Deviation
−2
−1
0
1
1990
1995
2000
2005
2010
Year

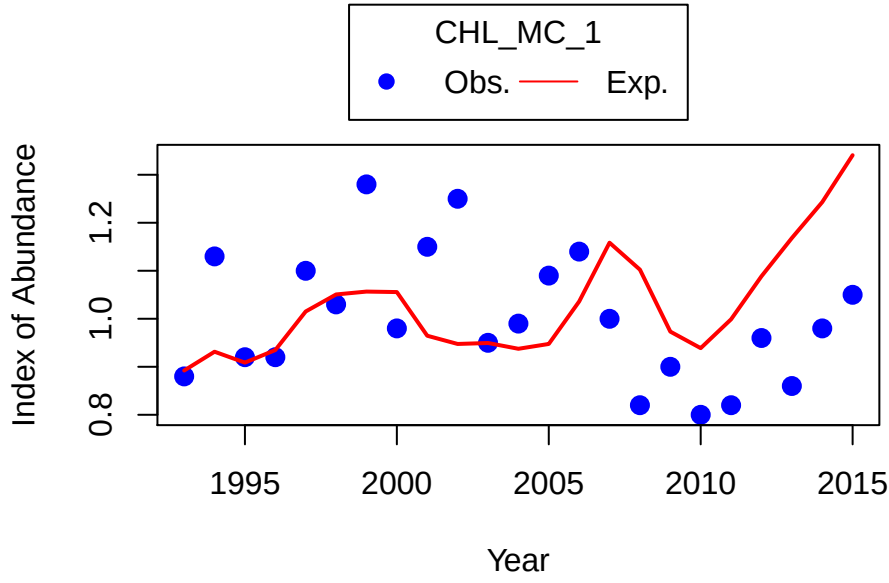

Trawl_GW_8
Partial ACF
0.4
0.2
0.0
−0.2
−0.4
1.0
1.2
1.4
1.6
1.8
2.0
Lag

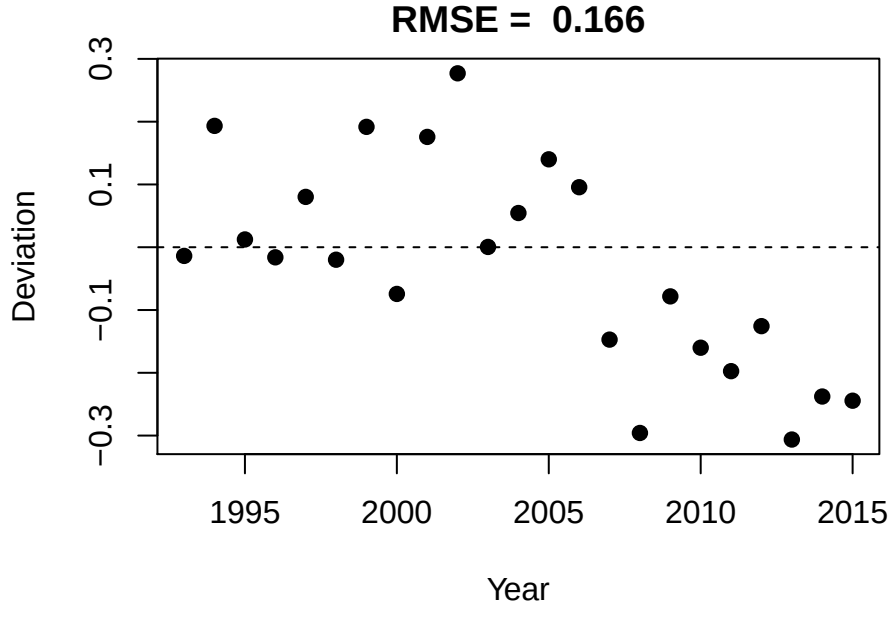

Video_GW_9
Obs.
Exp.
Index of Abundance
0.5
1.5
2.5
1995
2000
2005
2010
Year

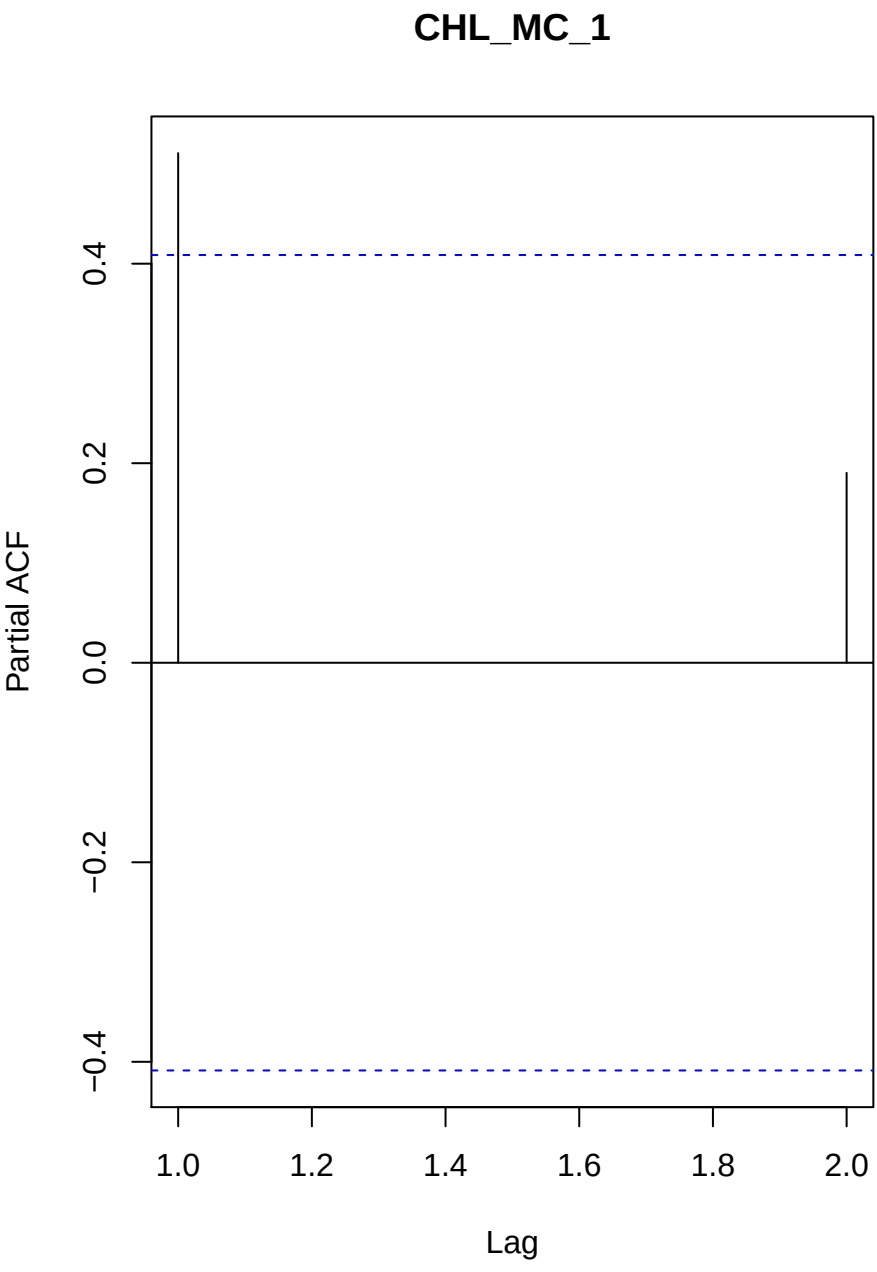

RMSE = 0.701
Deviation
0.5
−0.5
−1.5
1995
2000
2005
2010
Year

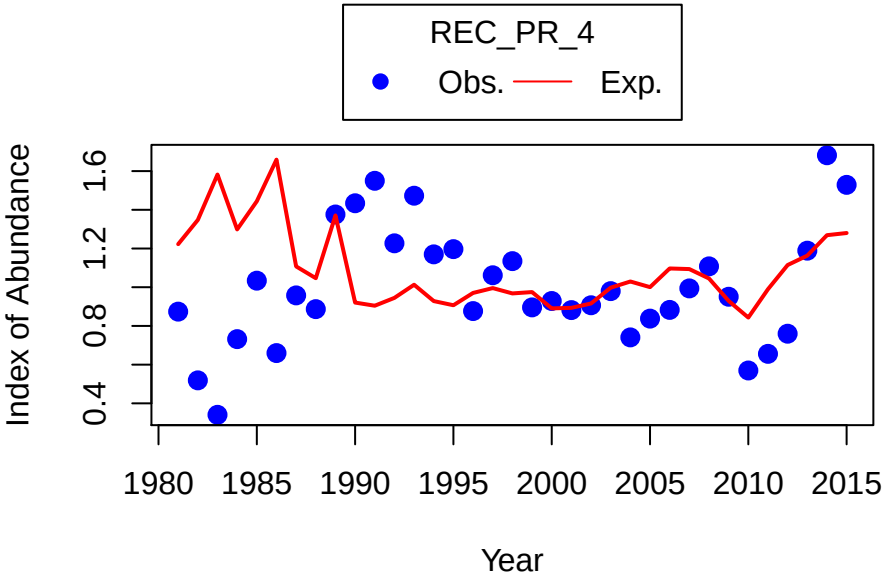

Video_GW_9
Partial ACF
0.4
0.2
0.0
−0.2
−0.4
1.0
1.2
1.4
1.6
1.8
2.0
Lag

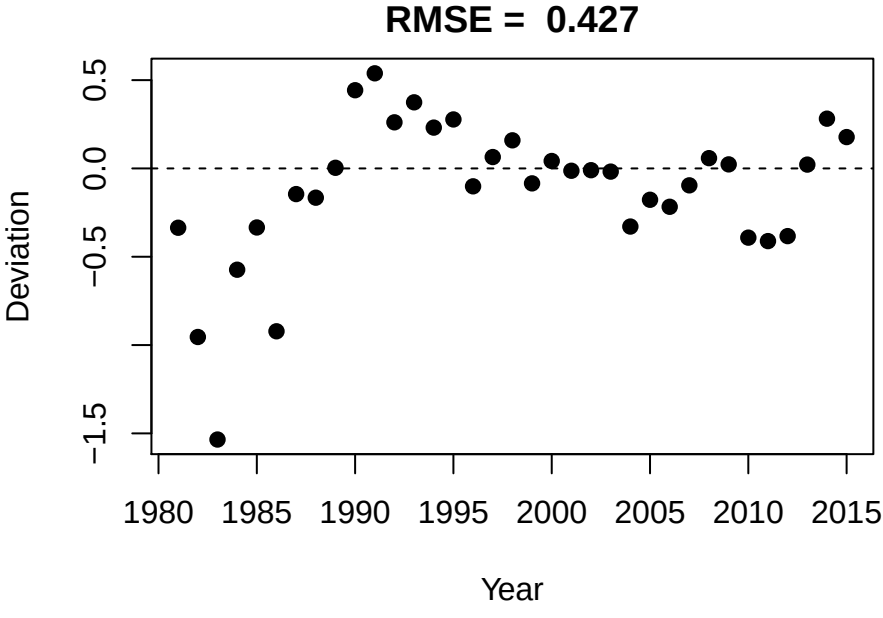
Gray Snapper SEDAR 51

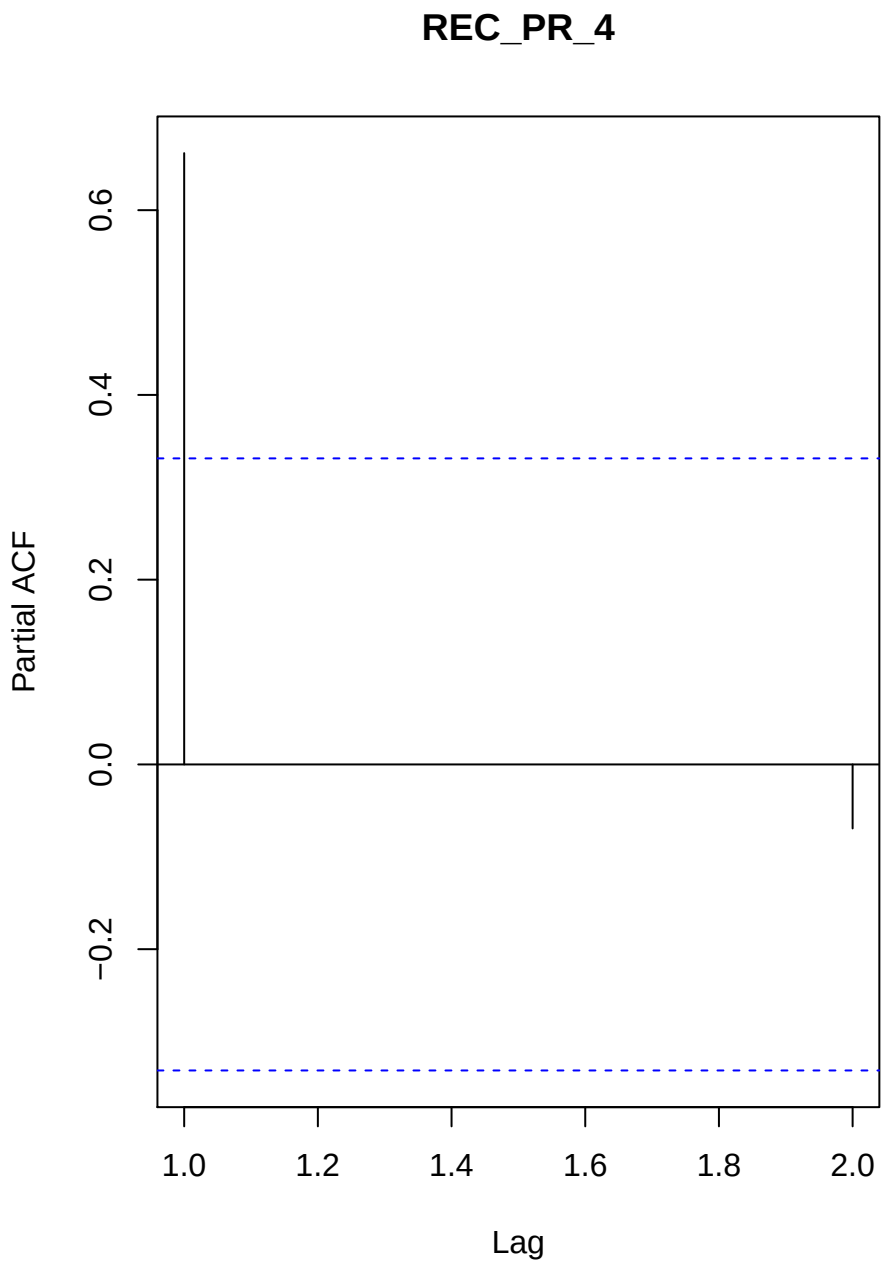

CHL_MC_1
Obs.
Exp.
Index of Abundance
0.8
1.0
1.2
1995
2000
2005
2010
2015
Year

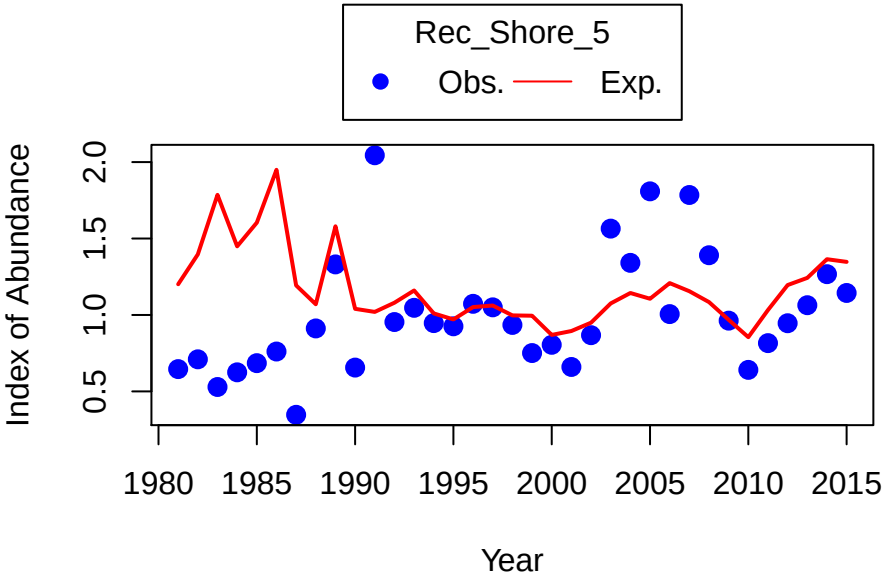

RMSE = 0.166
Deviation
−0.3
−0.1
0.1
0.3
1995
2000
2005
2010
2015
Year

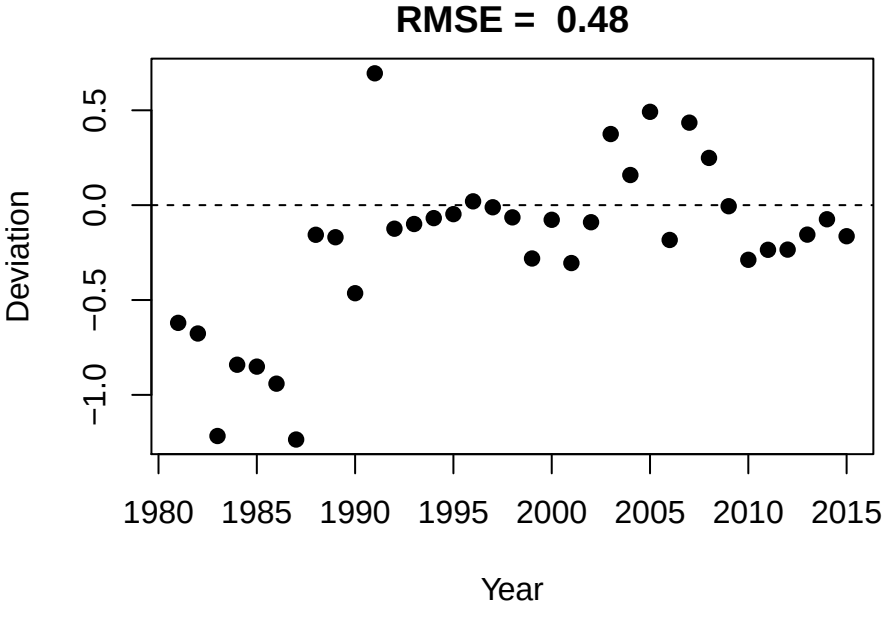

CHL_MC_1
Partial ACF
0.4
0.2
0.0
−0.2
−0.4
1.0
1.2
1.4
1.6
1.8
2.0
Lag

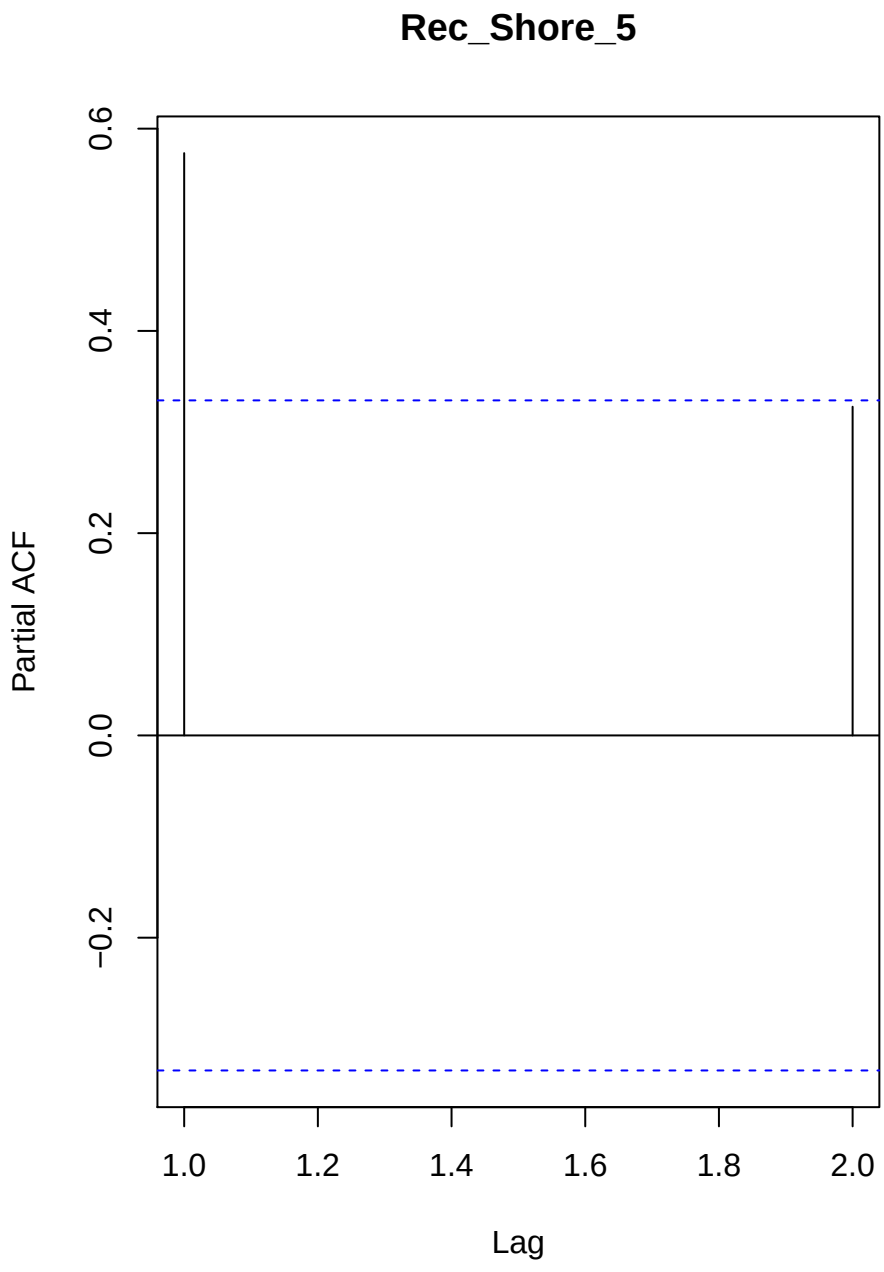

REC_PR_4
Obs.
Exp.
Index of Abundance
0.4
0.8
1.2
1.6
1980
1985
1990
1995
2000
2005
2010
2015
Year

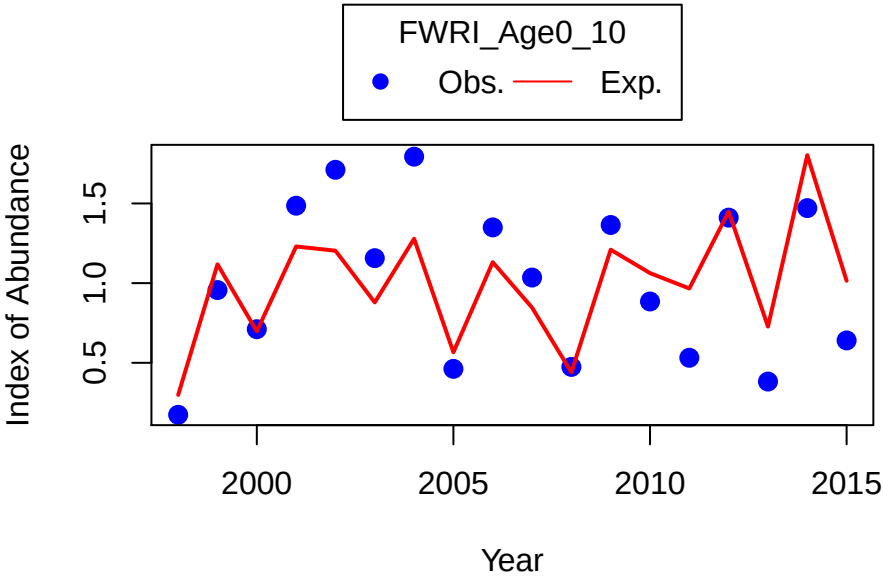

RMSE = 0.427
Deviation
−1.5
−0.5
0.0
0.5
1980
1985
1990
1995
2000
2005
2010
2015
Year

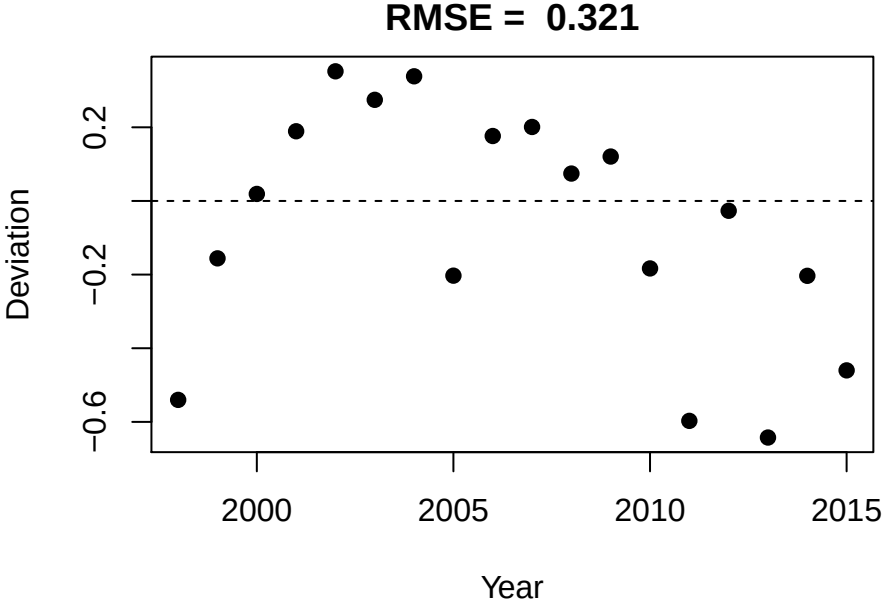

REC_PR_4
Partial ACF
0.6
0.4
0.2
0.0
−0.2
1.0
1.2
1.4
1.6
1.8
2.0
Lag

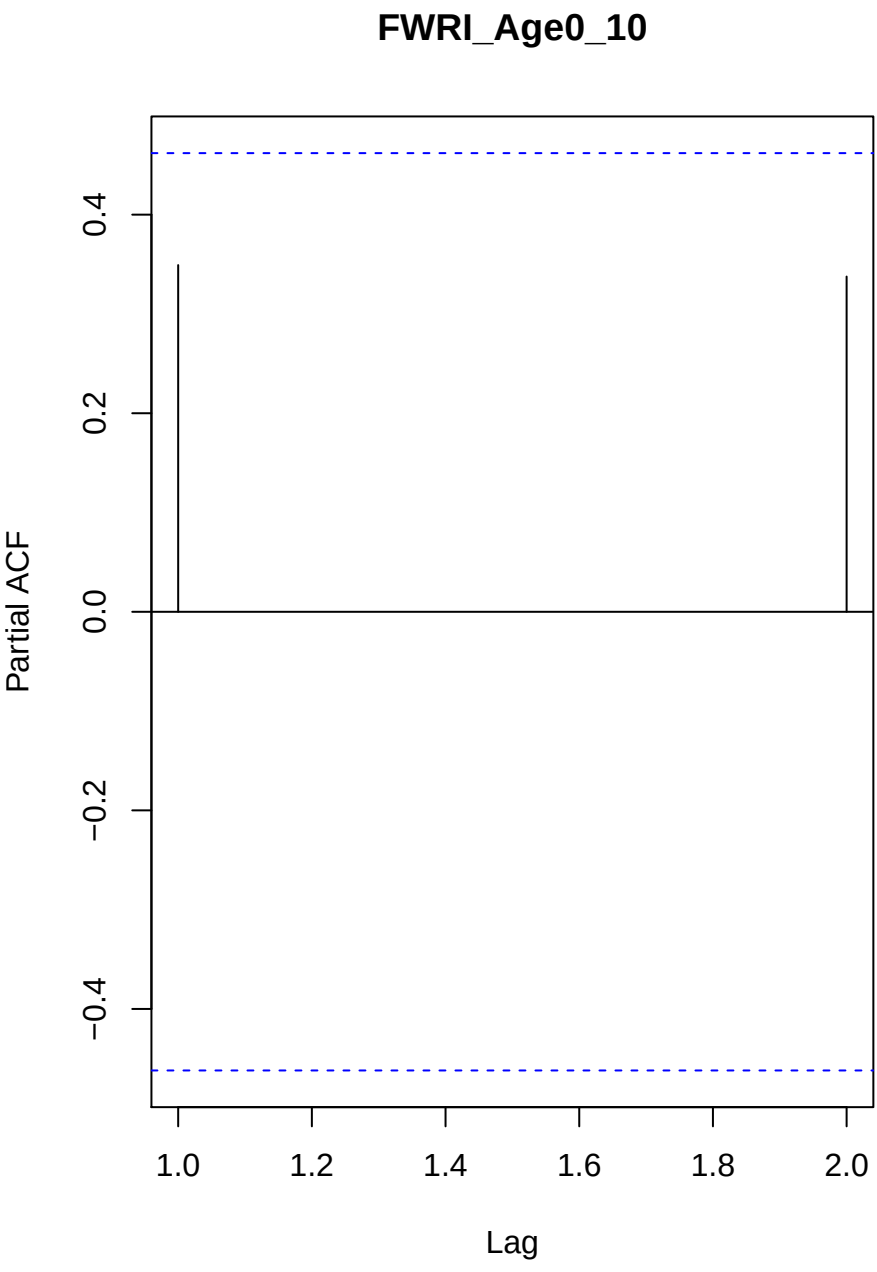

Rec_Shore_5
Obs.
Exp.
Index of Abundance
0.5
1.0
1.5
2.0
1980
1985
1990
1995
2000
2005
2010
2015
Year

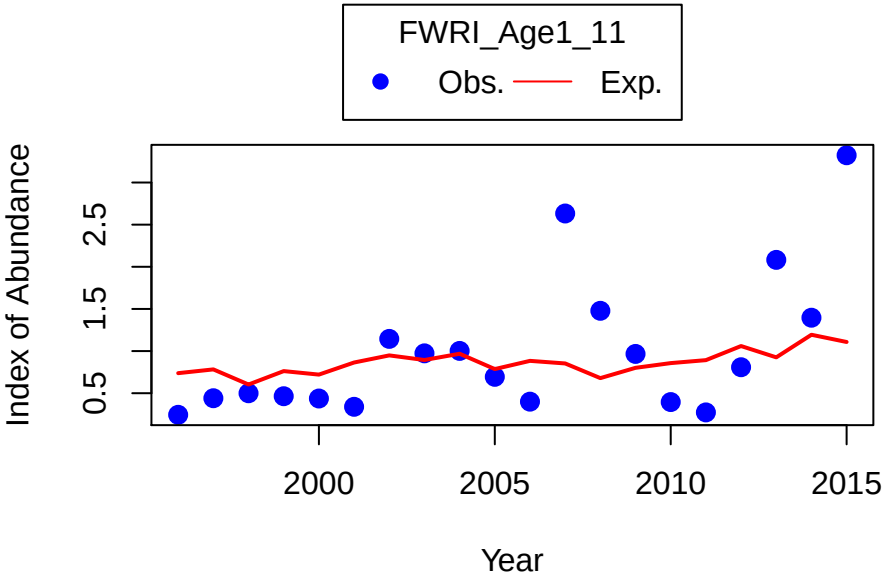

RMSE = 0.48
Deviation
−1.0
−0.5
0.0
0.5
1980
1985
1990
1995
2000
2005
2010
2015
Year

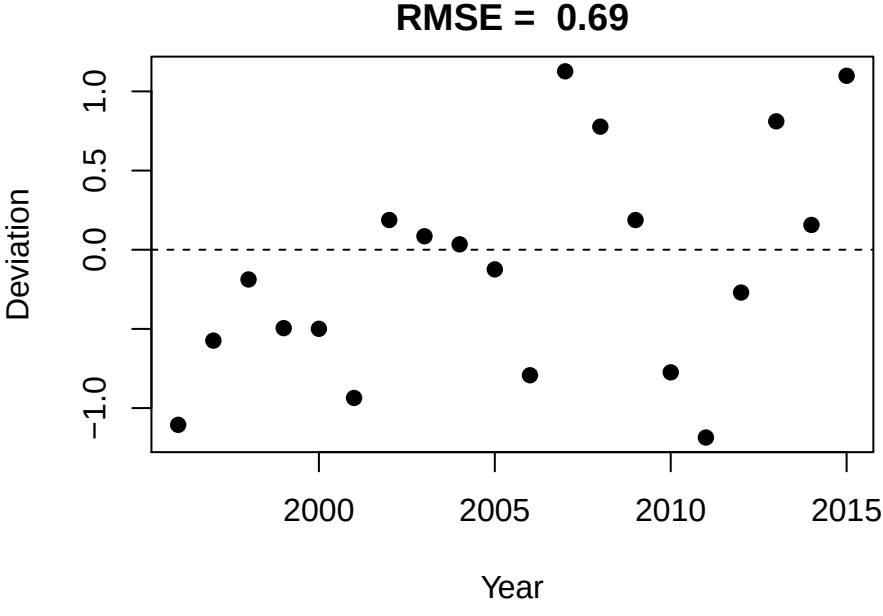

Rec_Shore_5
Partial ACF
0.6
0.4
0.2
0.0
−0.2
1.0
1.2
1.4
1.6
1.8
2.0
Lag

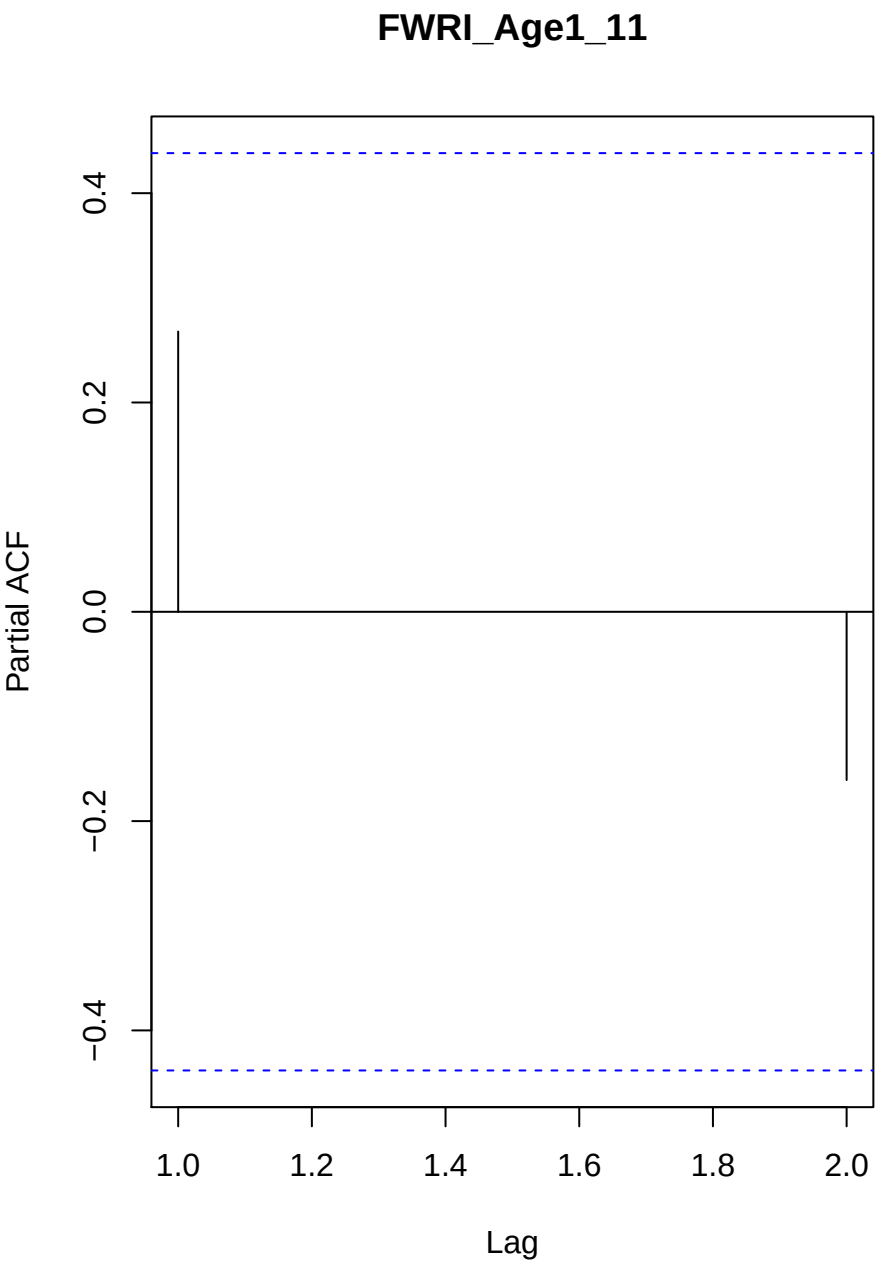

FWRI_Age0_10
Obs.
Exp.
Index of Abundance
0.5
1.0
1.5
2000
2005
2010
2015
Year

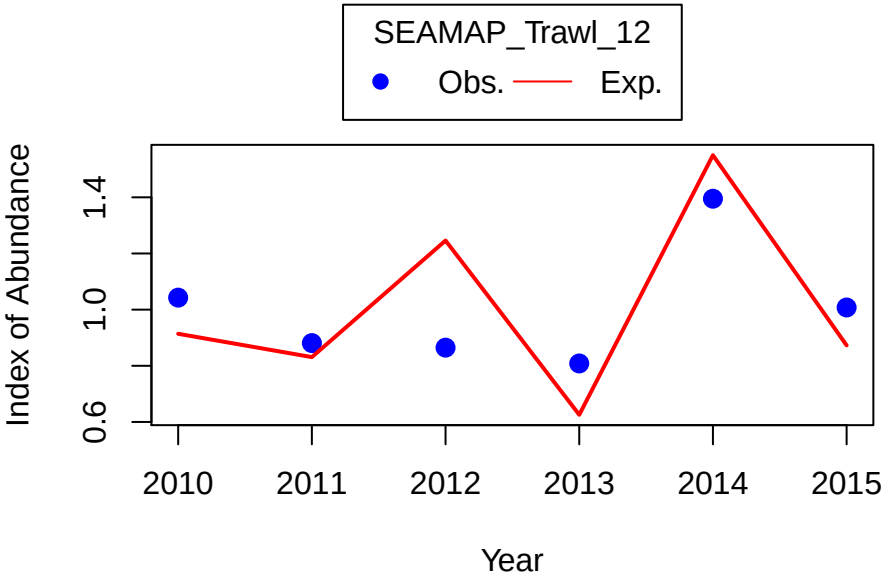

RMSE = 0.321
Deviation
0.2
−0.2
−0.6
2000
2005
2010
2015
Year

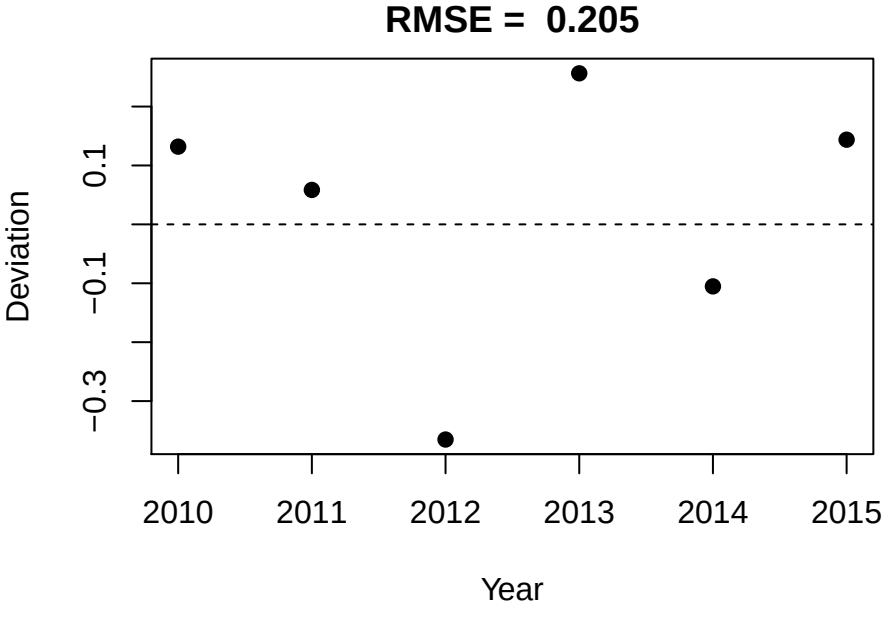

FWRI_Age0_10
Partial ACF
0.4
0.2
0.0
−0.2
−0.4
1.0
1.2
1.4
1.6
1.8
2.0
Lag

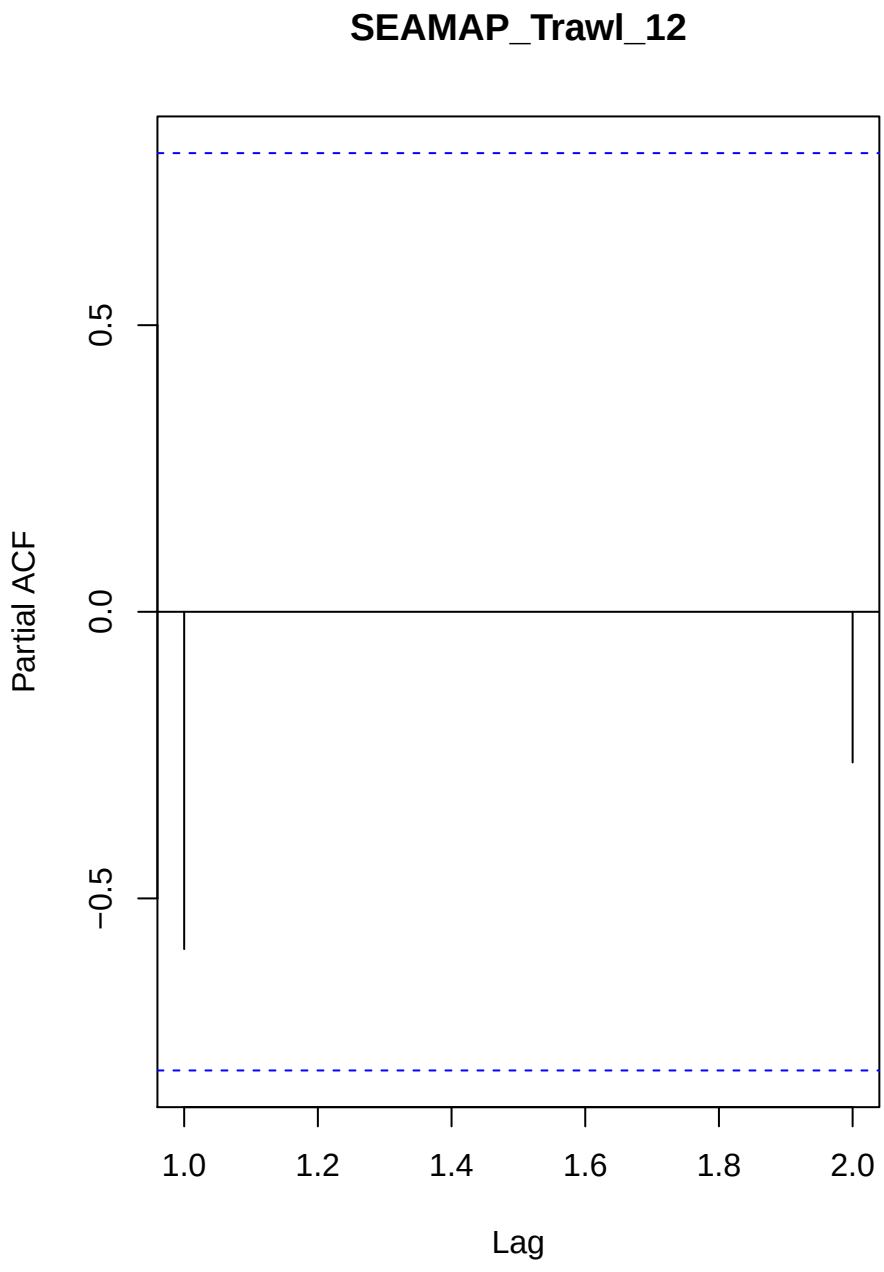

FWRI_Age1_11
Obs.
Exp.
Index of Abundance
0.5
1.5
2.5
2000
2005
2010
2015
Year

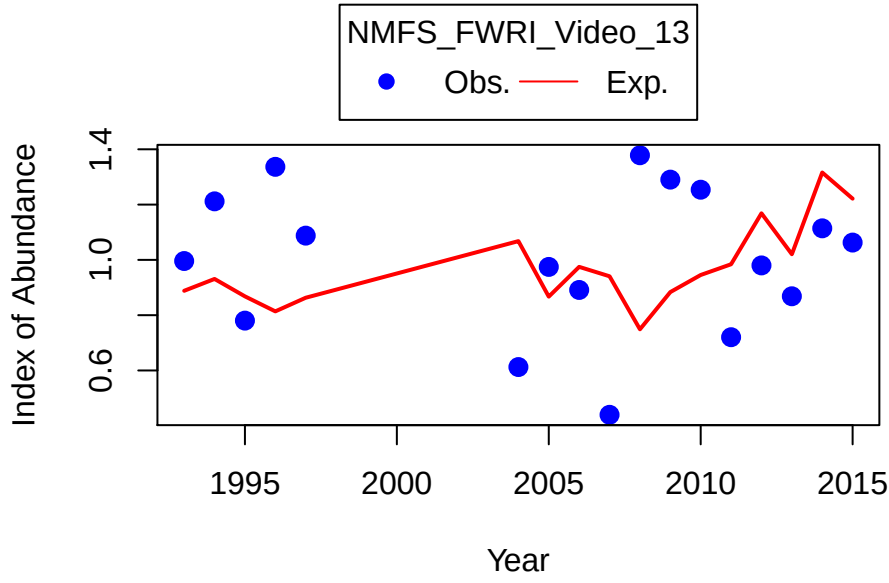

RMSE = 0.69
Deviation
−1.0
0.0
0.5
1.0
2000
2005
2010
2015
Year

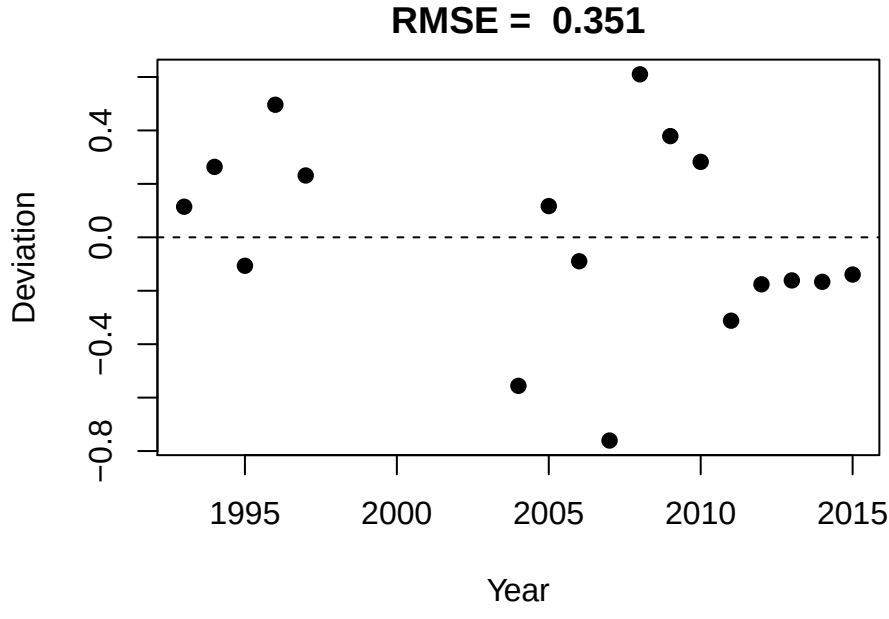

FWRI_Age1_11
Partial ACF
0.4
0.2
0.0
−0.2
−0.4
1.0
1.2
1.4
1.6
1.8
2.0
Lag

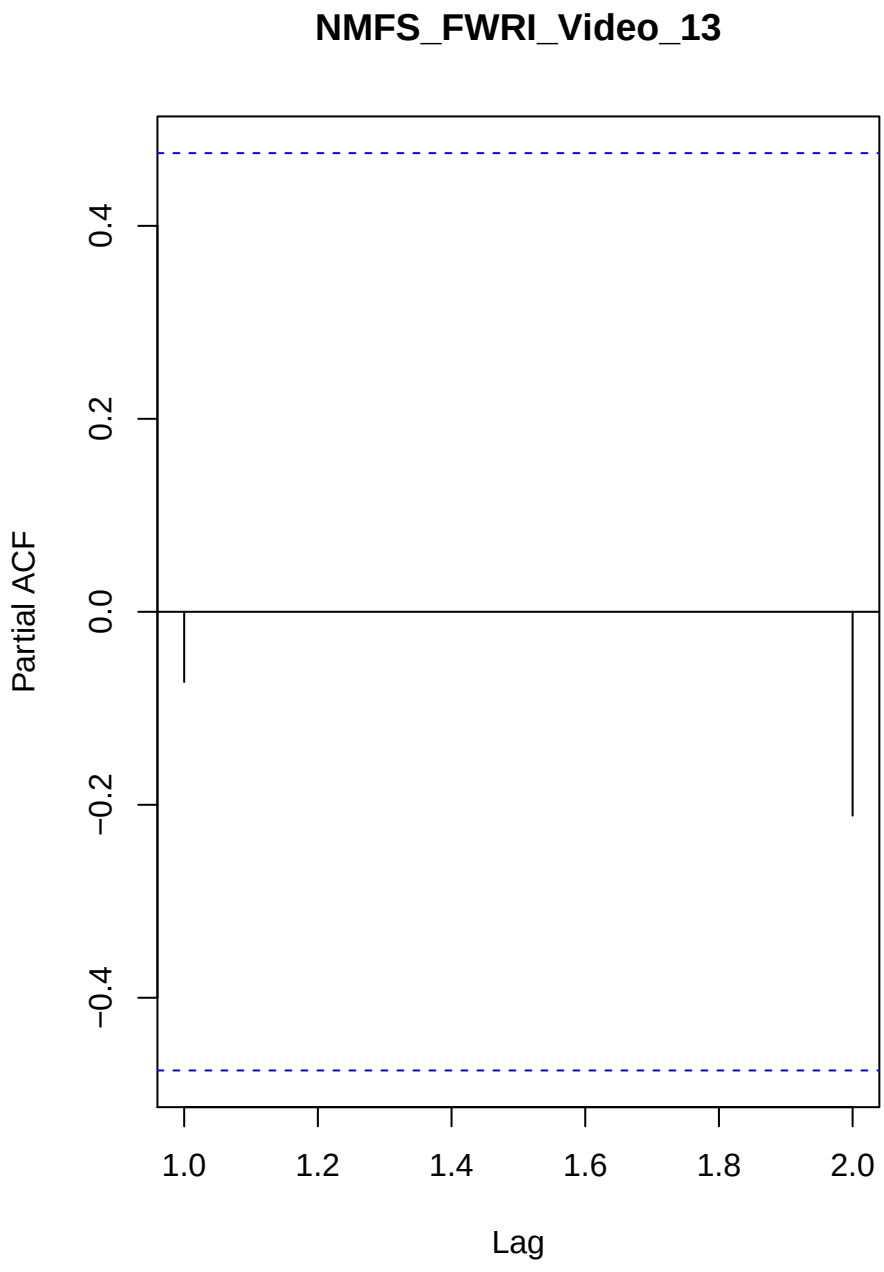

SEAMAP_Trawl_12
Obs.
Exp.
Index of Abundance
0.6
1.0
1.4
2010
2011
2012
2013
2014
2015
Year

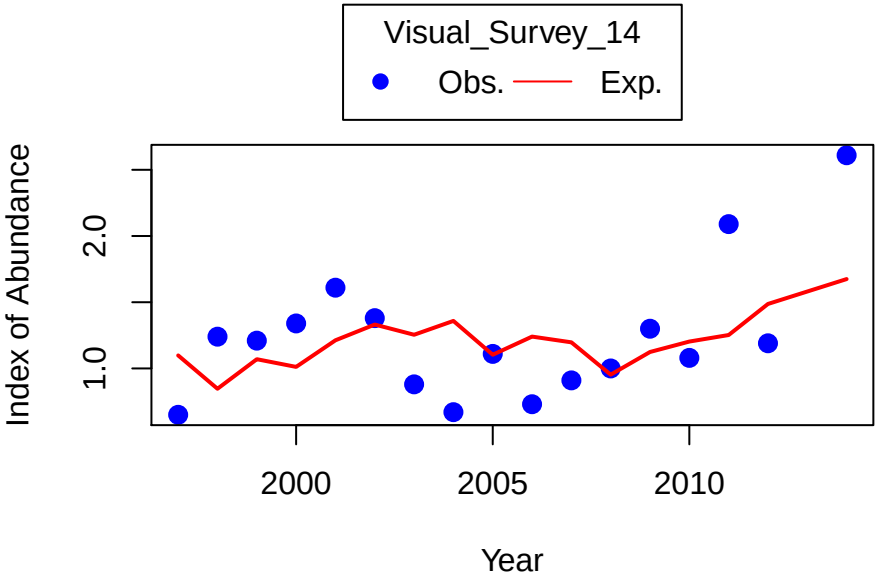

RMSE = 0.205
Deviation
−0.3
−0.1
0.1
2010
2011
2012
2013
2014
2015
Year

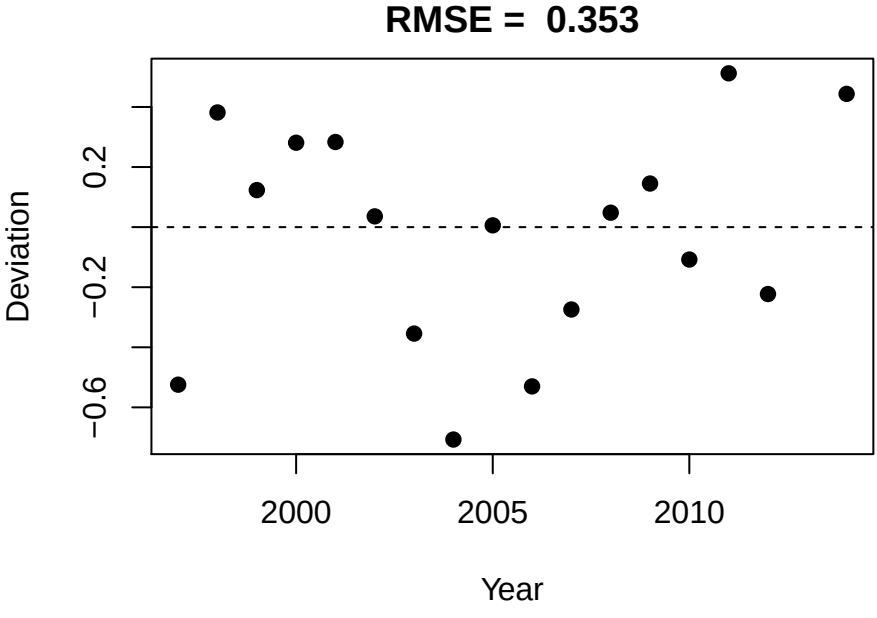

SEAMAP_Trawl_12
Partial ACF
0.5
0.0
−0.5
1.0
1.2
1.4
1.6
1.8
2.0
Lag

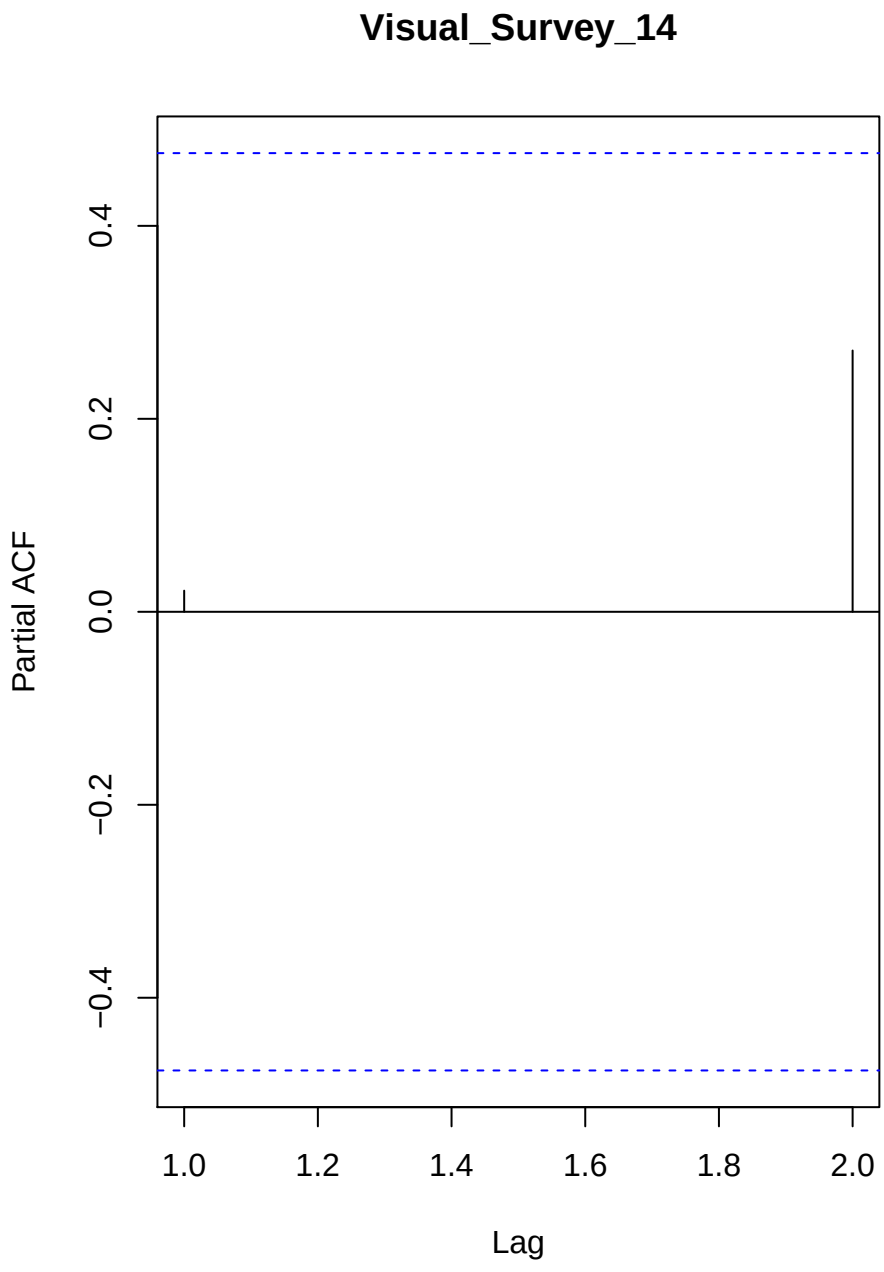

NMFS_FWRI_Video_13
Obs.
Exp.
Index of Abundance
0.6
1.0
1.4
1995
2000
2005
2010
2015
Year


RMSE = 0.351
Deviation
−0.8
−0.4
0.0
0.4
1995
2000
2005
2010
2015
Year

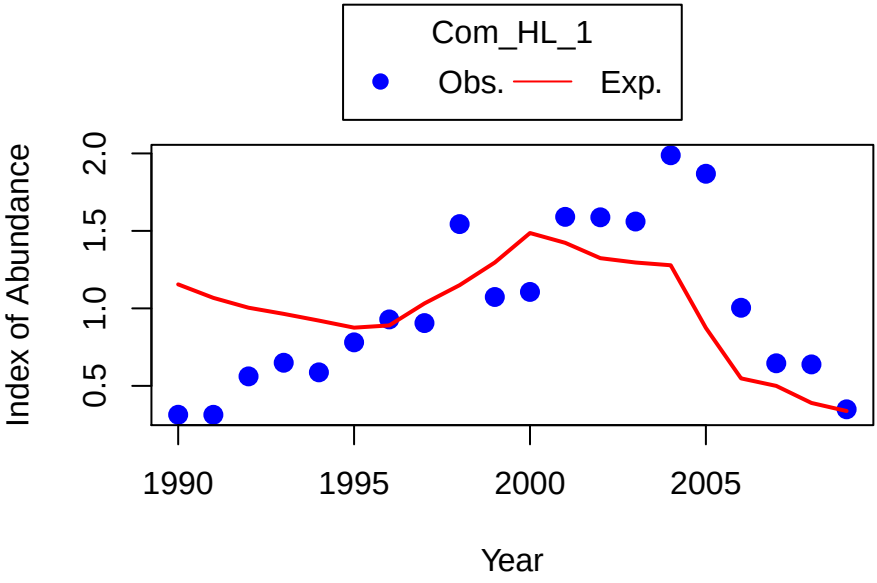

NMFS_FWRI_Video_13
Partial ACF
0.4
0.2
0.0
−0.2
−0.4
1.0
1.2
1.4
1.6
1.8
2.0
Lag

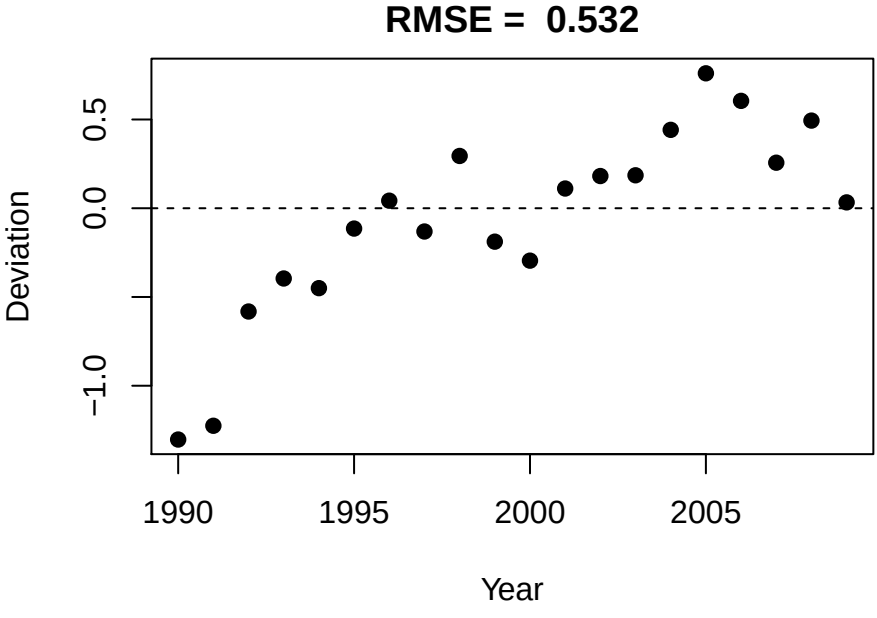

Visual_Survey_14
Obs.
Exp.
Index of Abundance
1.0
2.0
2000
2005
2010
Year

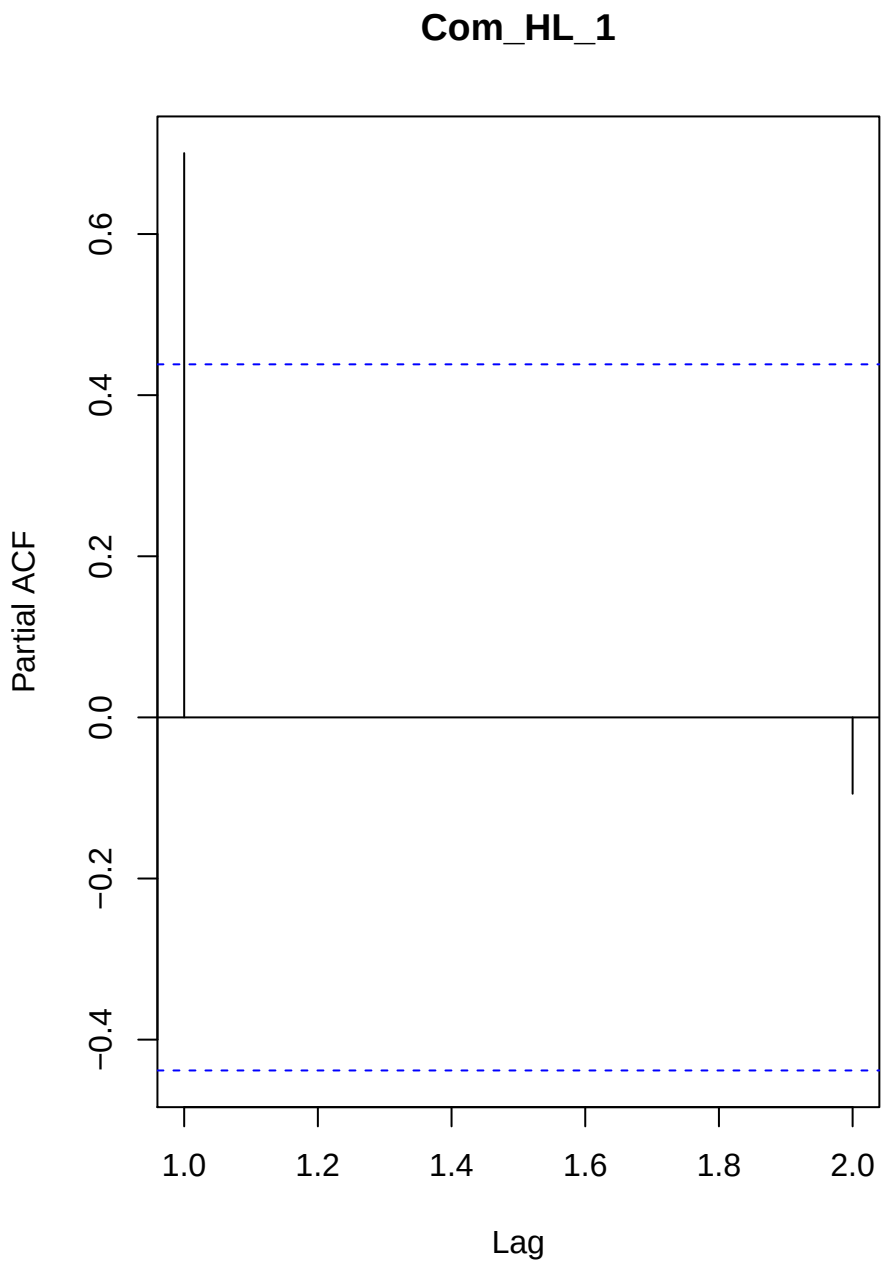

RMSE = 0.353
Deviation
−0.6
−0.2
0.2
2000
2005
2010
Year

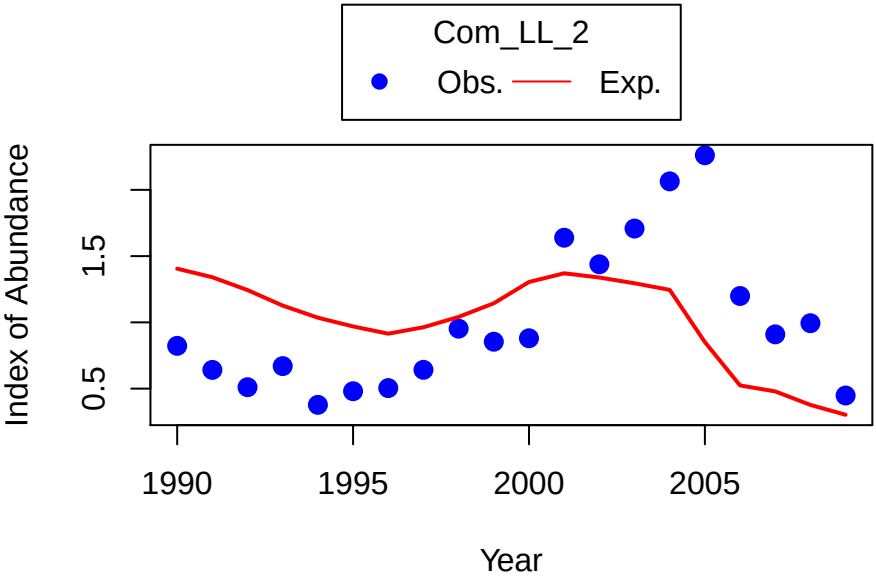

Visual_Survey_14
Partial ACF
0.4
0.2
0.0
−0.2
−0.4
1.0
1.2
1.4
1.6
1.8
2.0
Lag

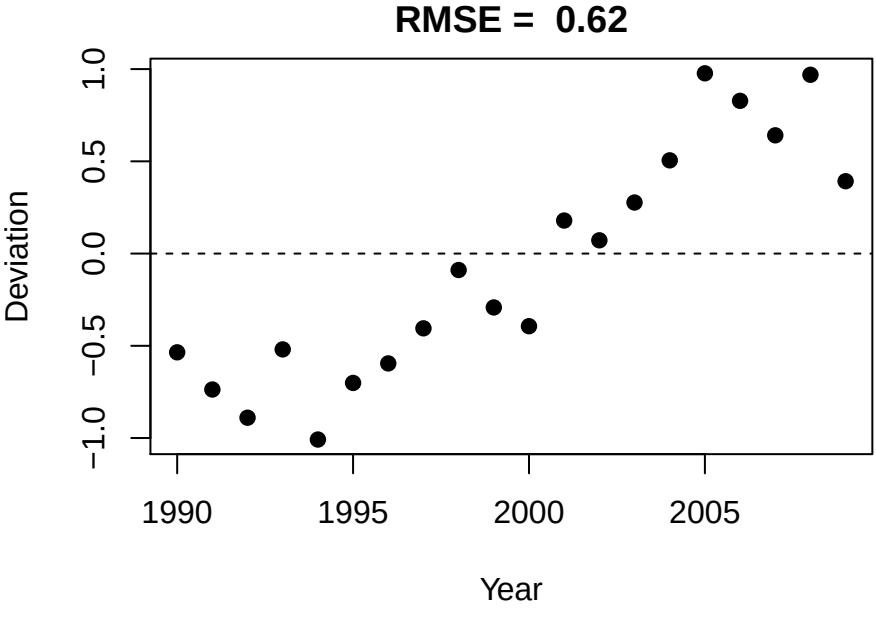
Gag SEDAR 33

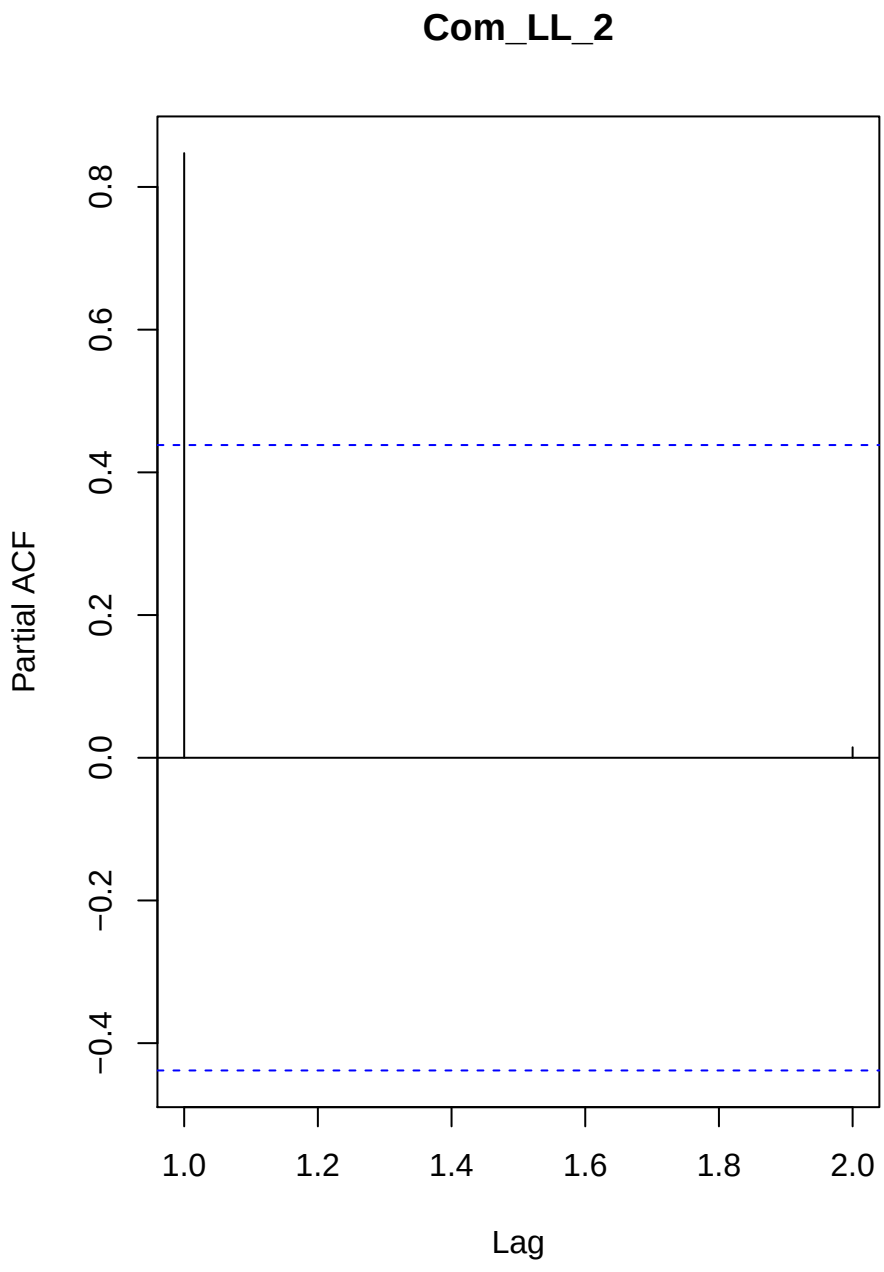

Com_HL_1
Obs.
Exp.
Index of Abundance
0.5
1.0
1.5
2.0
1990
1995
2000
2005
Year

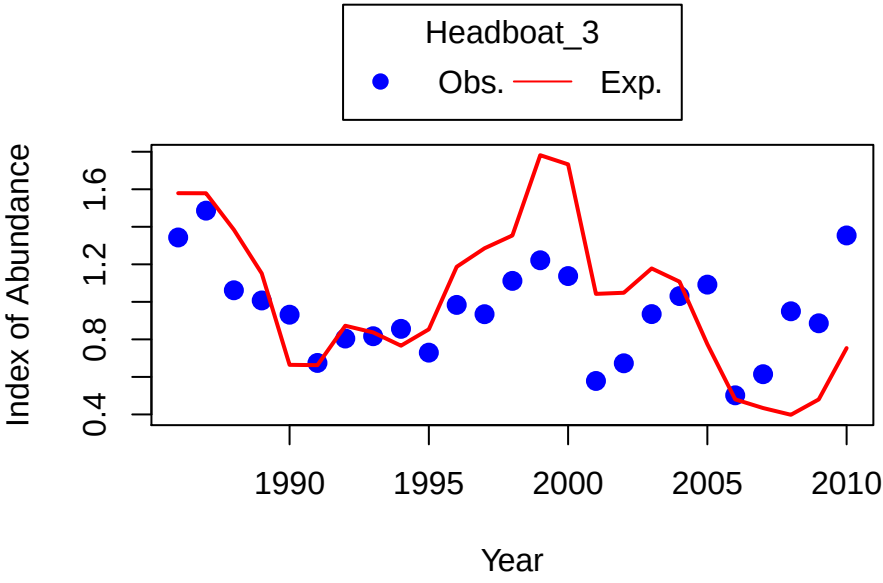

RMSE = 0.532
Deviation
−1.0
0.0
0.5
1990
1995
2000
2005
Year

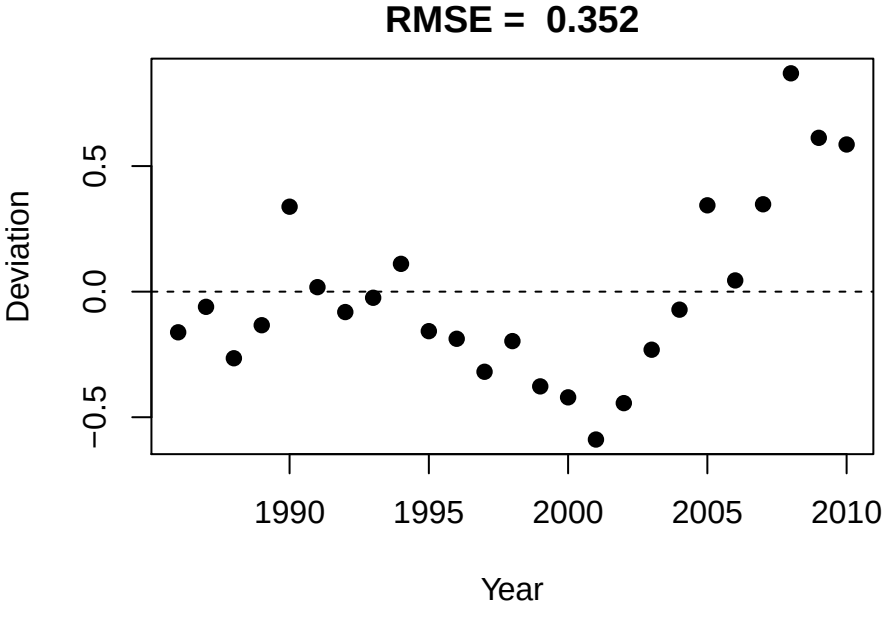

Com_HL_1
Partial ACF
0.6
0.4
0.2
0.0
−0.2
−0.4
1.0
1.2
1.4
1.6
1.8
2.0
Lag

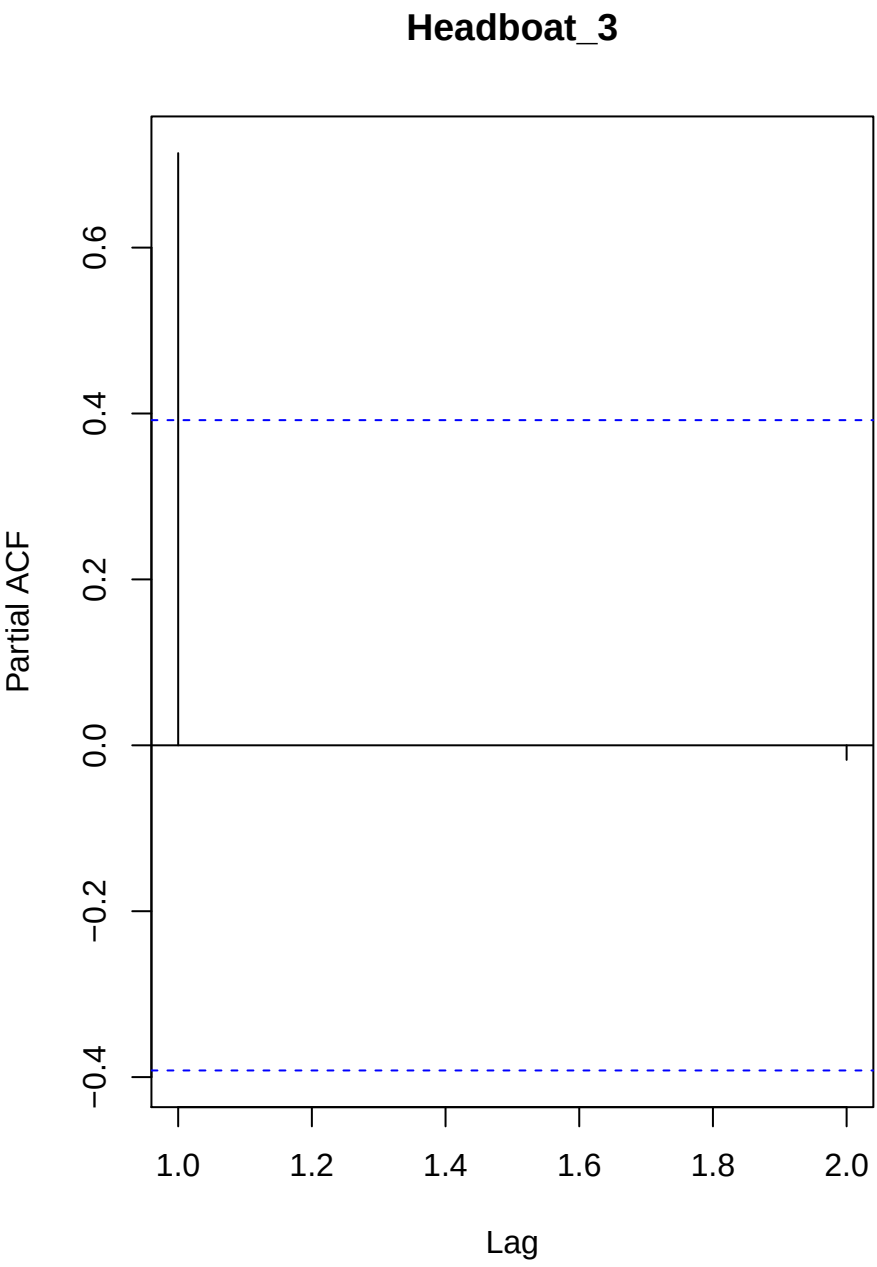

Com_LL_2
Obs.
Exp.
Index of Abundance
0.5
1.5
1990
1995
2000
2005
Year

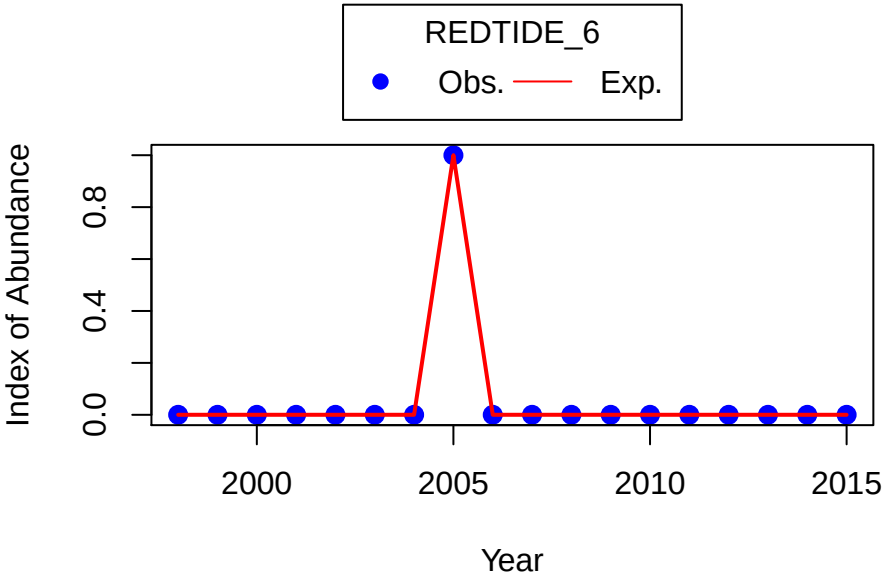

RMSE = 0.62
Deviation
−1.0
−0.5
0.0
0.5
1.0
1990
1995
2000
2005
Year

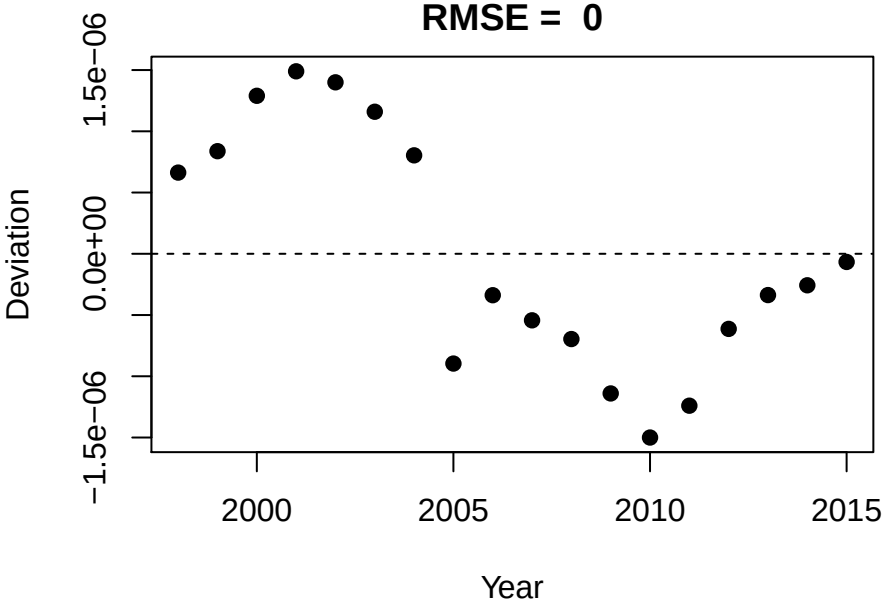

Com_LL_2
Partial ACF
0.8
0.6
0.4
0.2
0.0
−0.2
−0.4
1.0
1.2
1.4
1.6
1.8
2.0
Lag

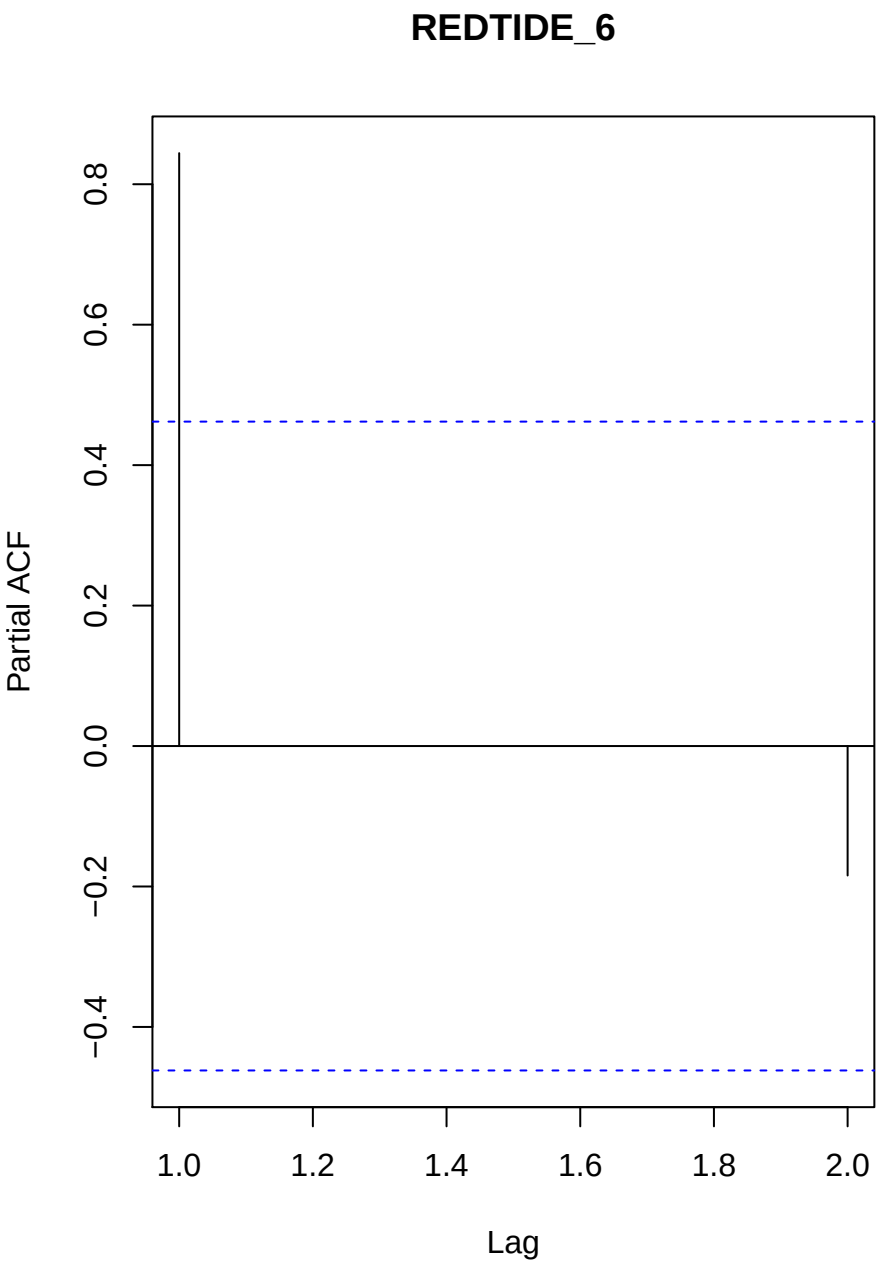

Headboat_3
Obs.
Exp.
Index of Abundance
0.4
0.8
1.2
1.6
1990
1995
2000
2005
2010
Year

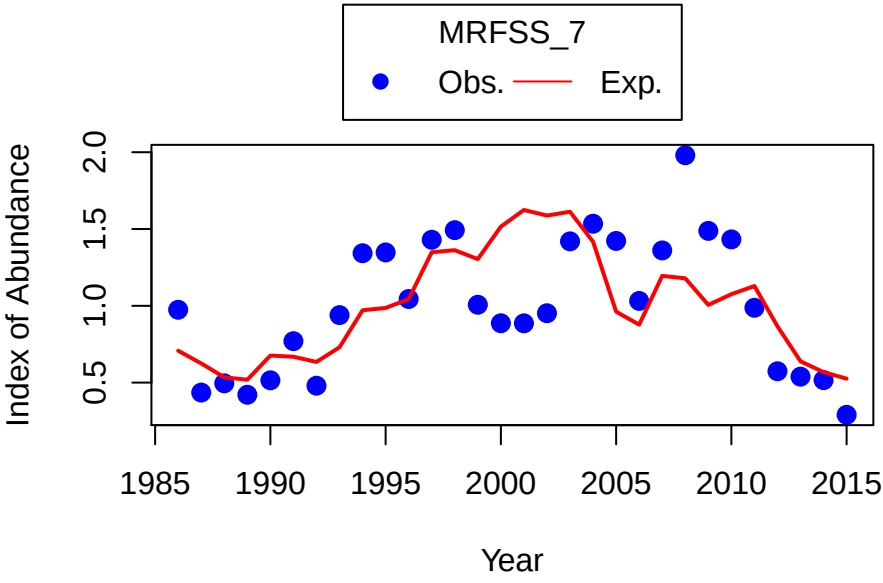

RMSE = 0.352
Deviation
−0.5
0.0
0.5
1990
1995
2000
2005
2010
Year

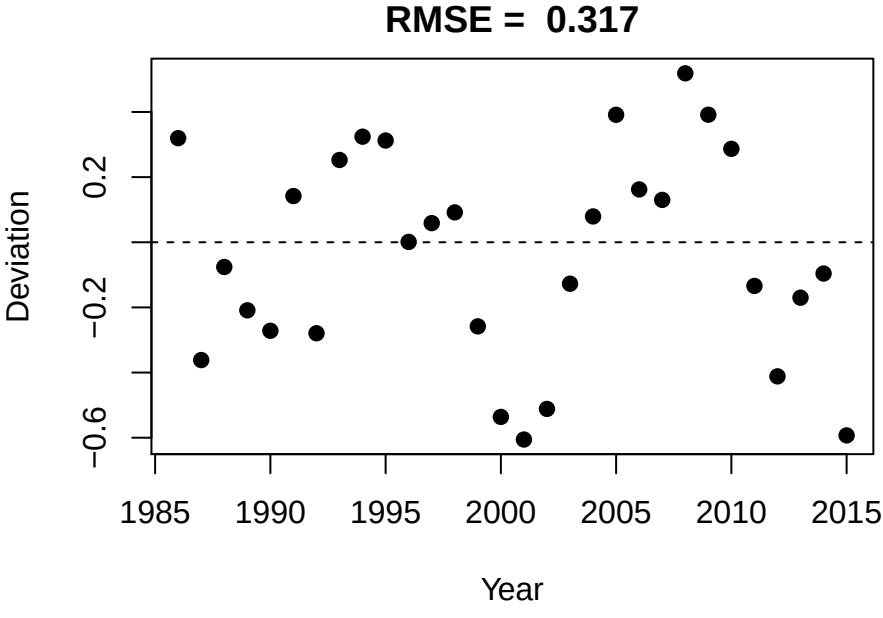

Headboat_3
Partial ACF
0.6
0.4
0.2
0.0
−0.2
−0.4
1.0
1.2
1.4
1.6
1.8
2.0
Lag

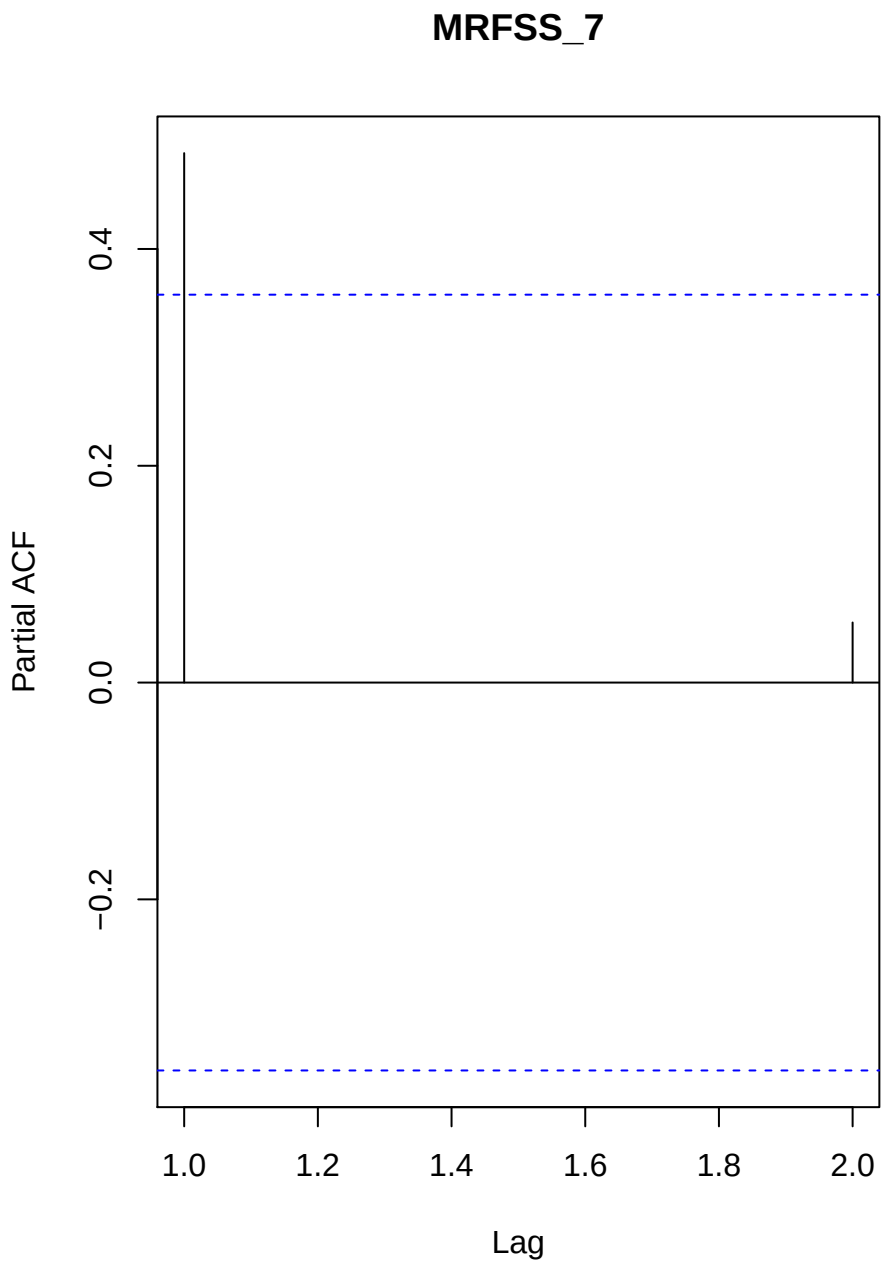

REDTIDE_6
Obs.
Exp.
Index of Abundance
0.0
0.4
0.8
2000
2005
2010
2015
Year

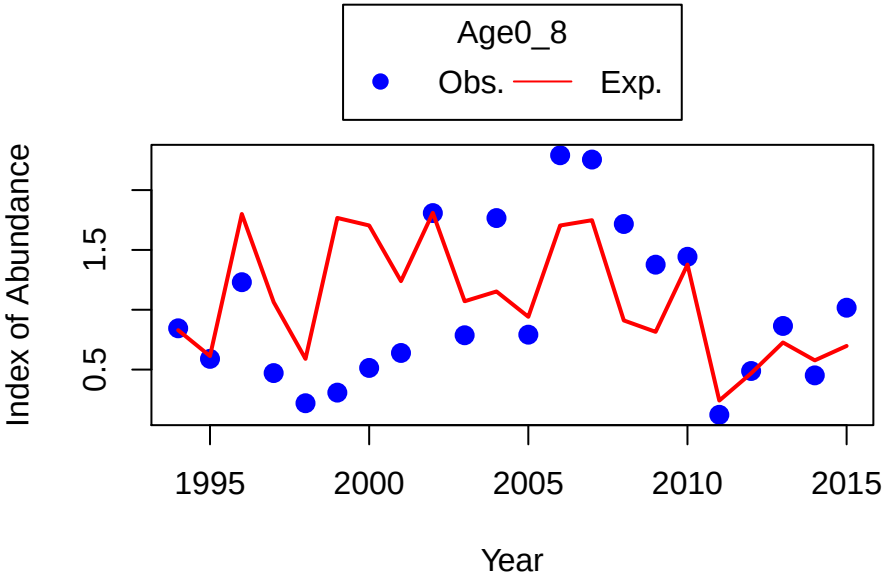

RMSE = 0
Deviation
−1.5e−06
0.0e+00
1.5e−06
2000
2005
2010
2015
Year

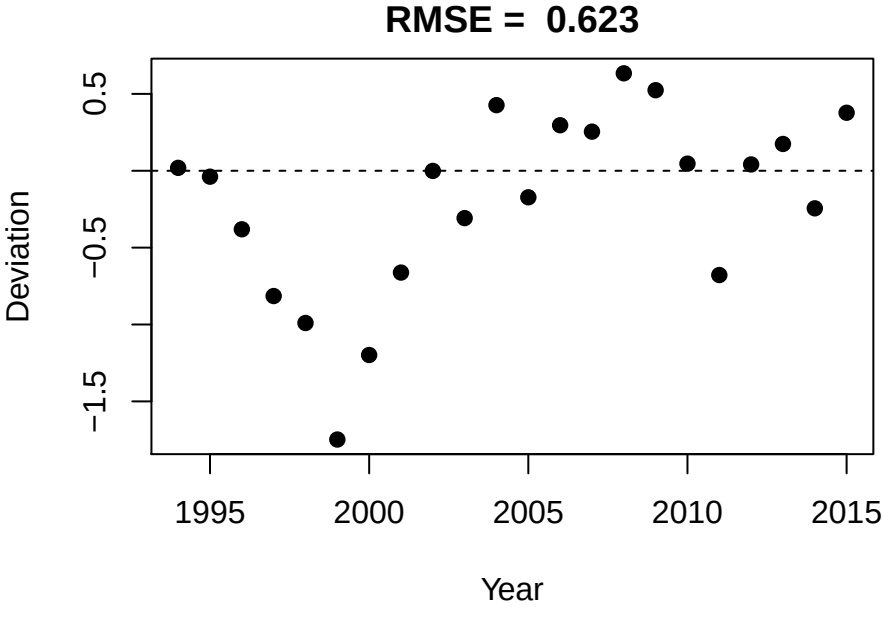

REDTIDE_6
Partial ACF
0.8
0.6
0.4
0.2
0.0
−0.2
−0.4
1.0
1.2
1.4
1.6
1.8
2.0
Lag

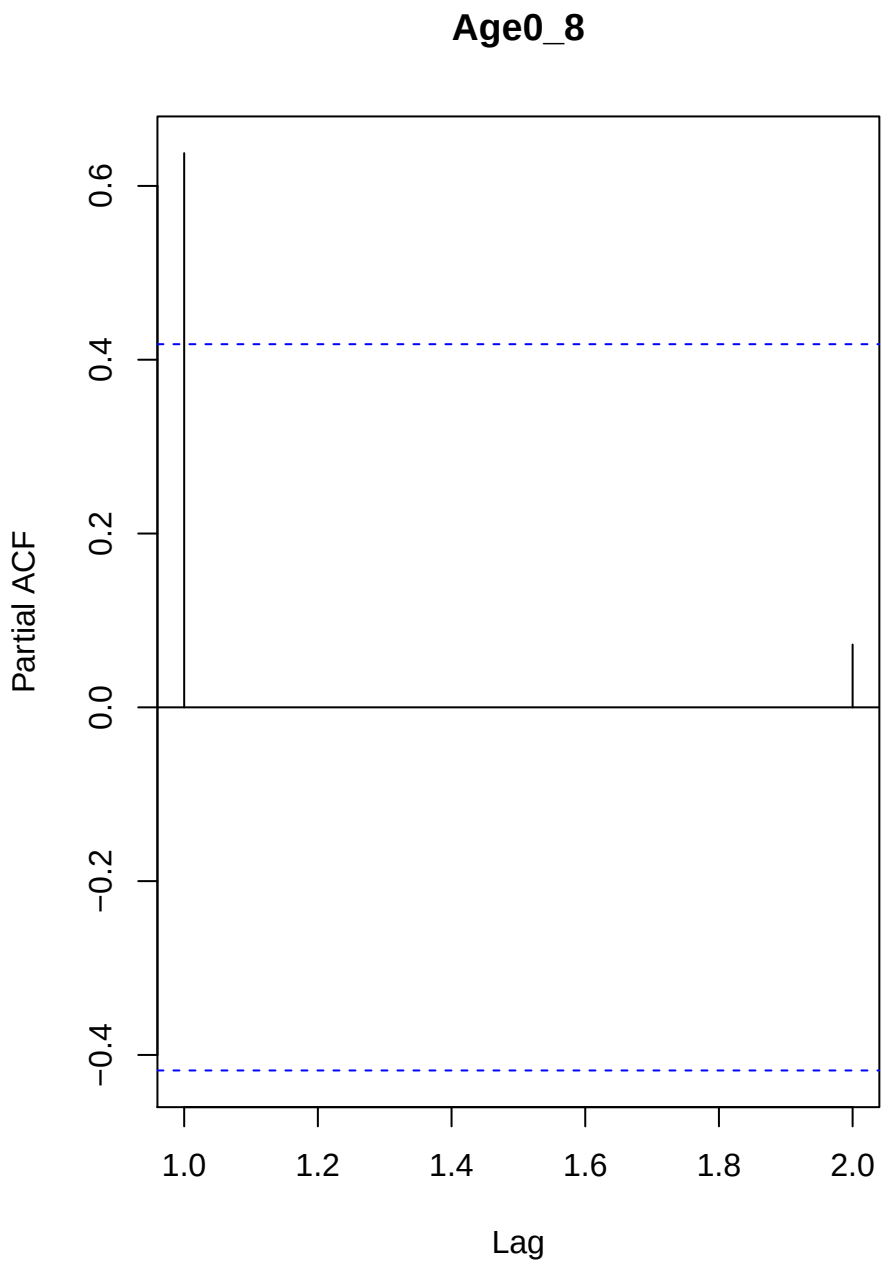

MRFSS_7
Obs.
Exp.
Index of Abundance
0.5
1.0
1.5
2.0
1985
1990
1995
2000
2005
2010
2015
Year

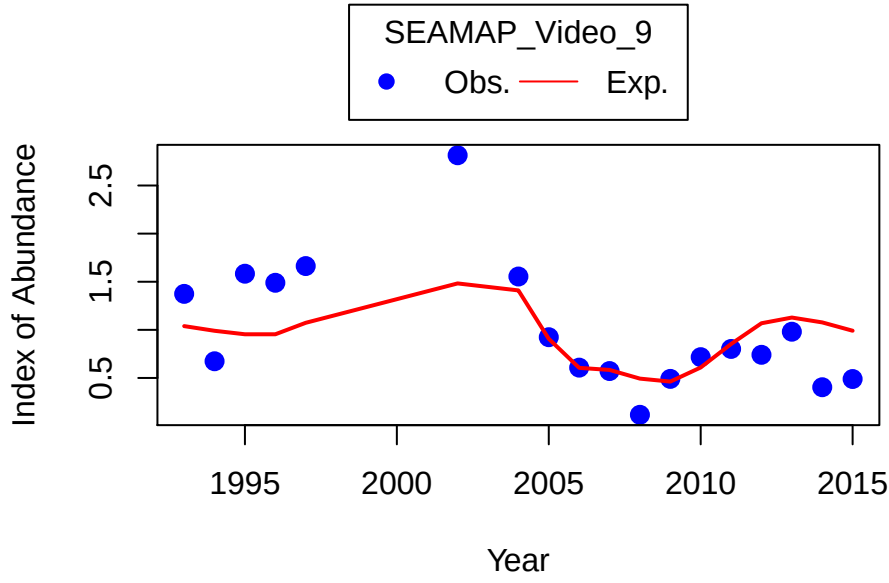

RMSE = 0.317
Deviation
−0.6
−0.2
0.2
1985
1990
1995
2000
2005
2010
2015
Year

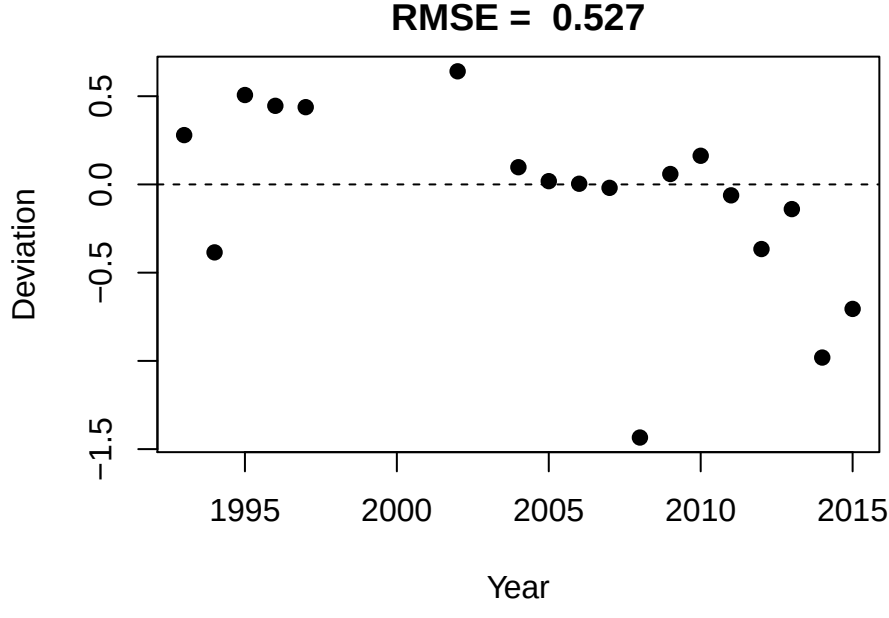

MRFSS_7
Partial ACF
0.4
0.2
0.0
−0.2
1.0
1.2
1.4
1.6
1.8
2.0
Lag

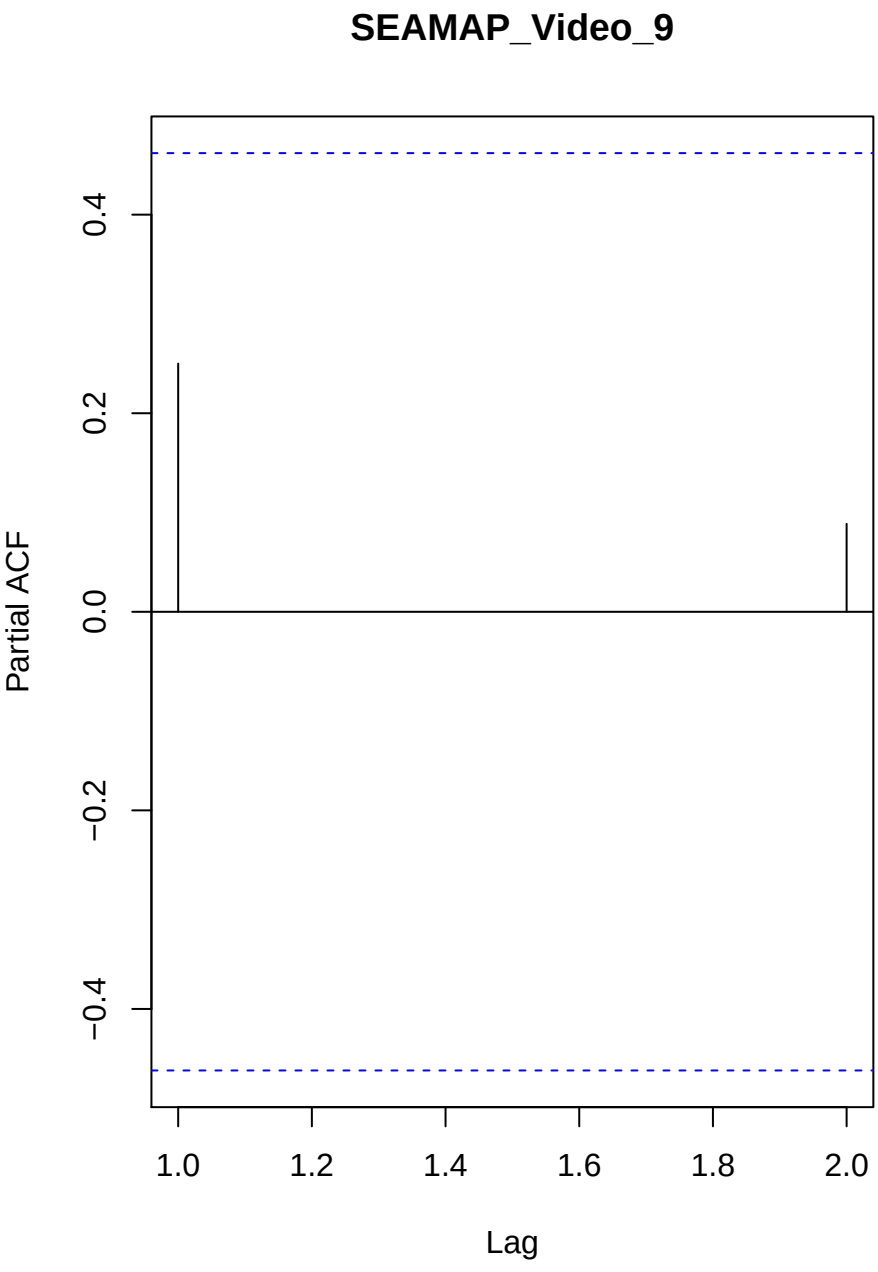

Age0_8
Obs.
Exp.
Index of Abundance
0.5
1.5
1995
2000
2005
2010
2015
Year

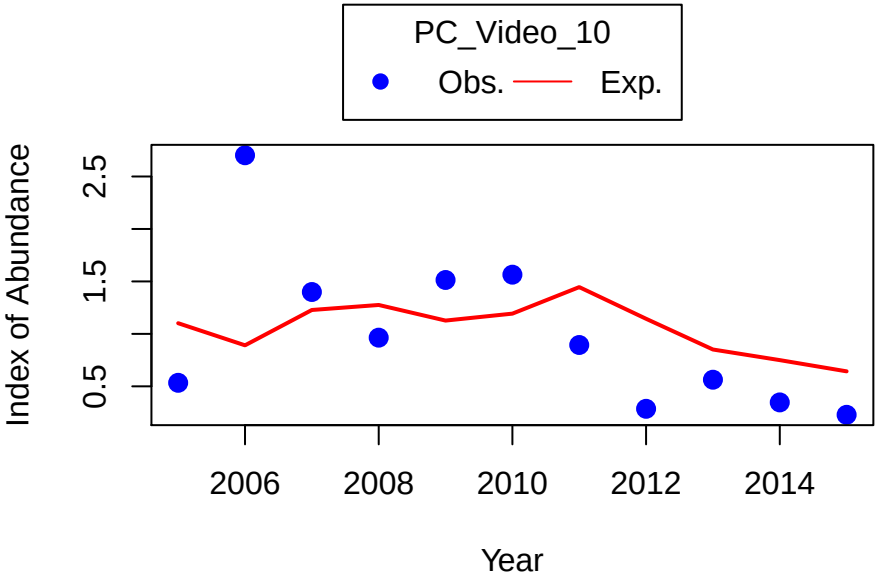

RMSE = 0.623
Deviation
0.5
−0.5
−1.5
1995
2000
2005
2010
2015
Year

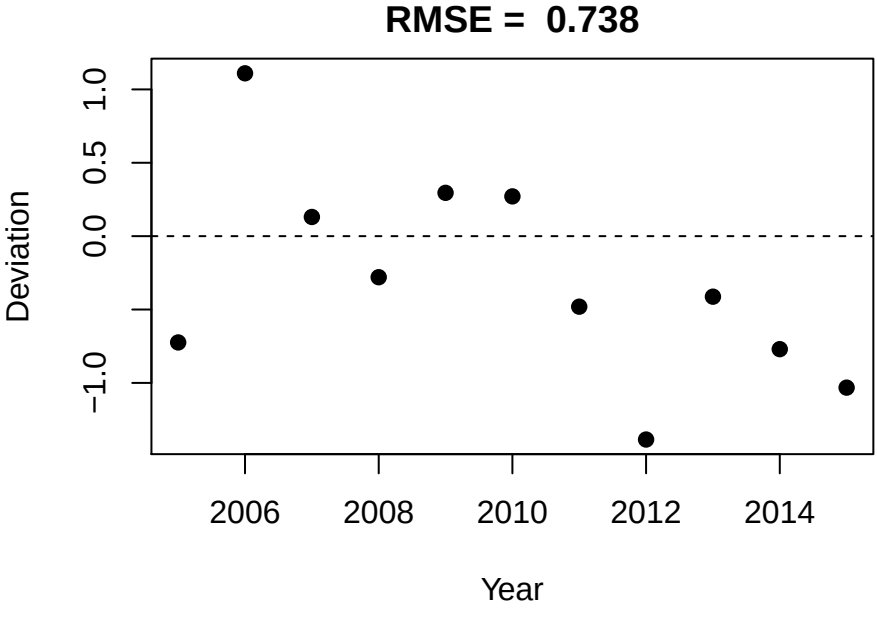

Age0_8
Partial ACF
0.6
0.4
0.2
0.0
−0.2
−0.4
1.0
1.2
1.4
1.6
1.8
2.0
Lag

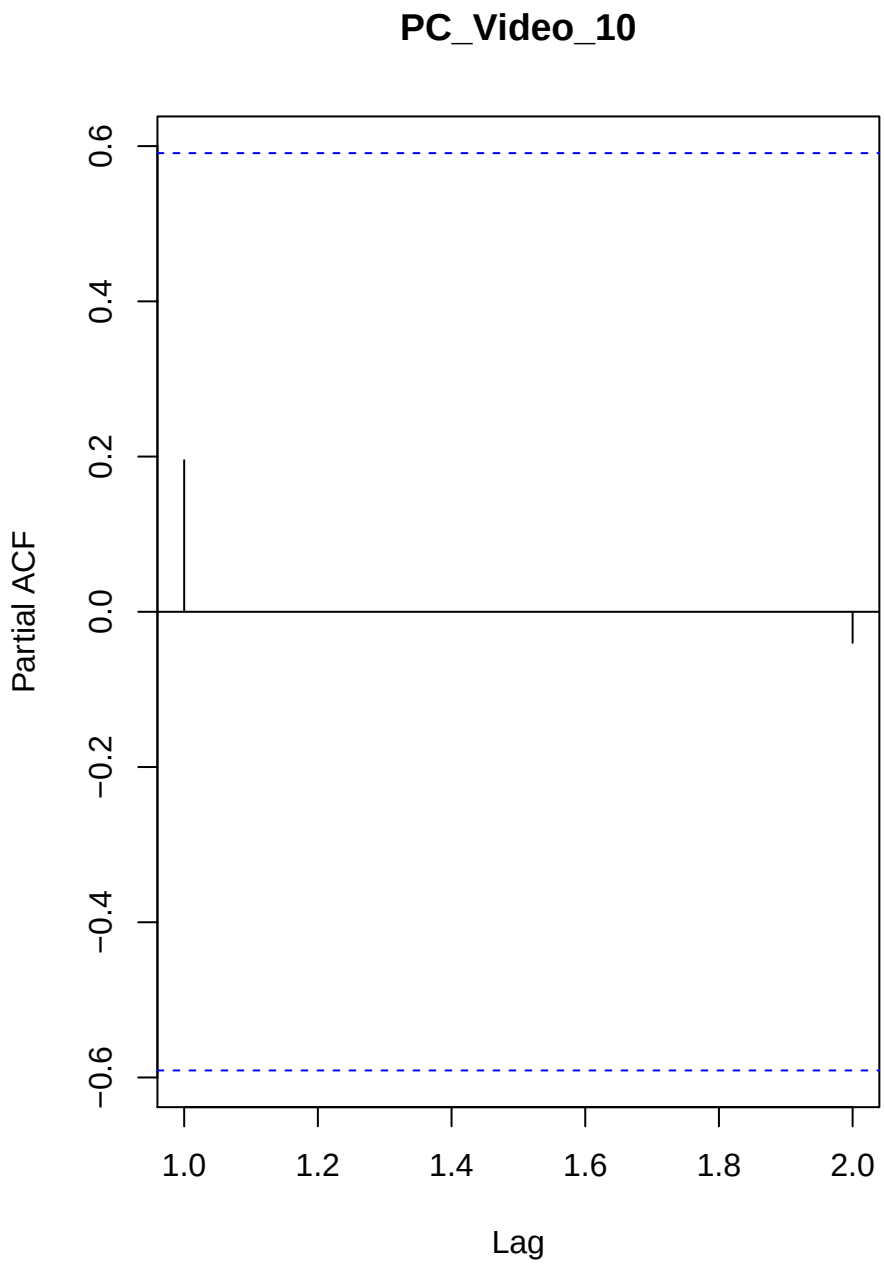

SEAMAP_Video_9
Obs.
Exp.
Index of Abundance
0.5
1.5
2.5
1995
2000
2005
2010
2015
Year

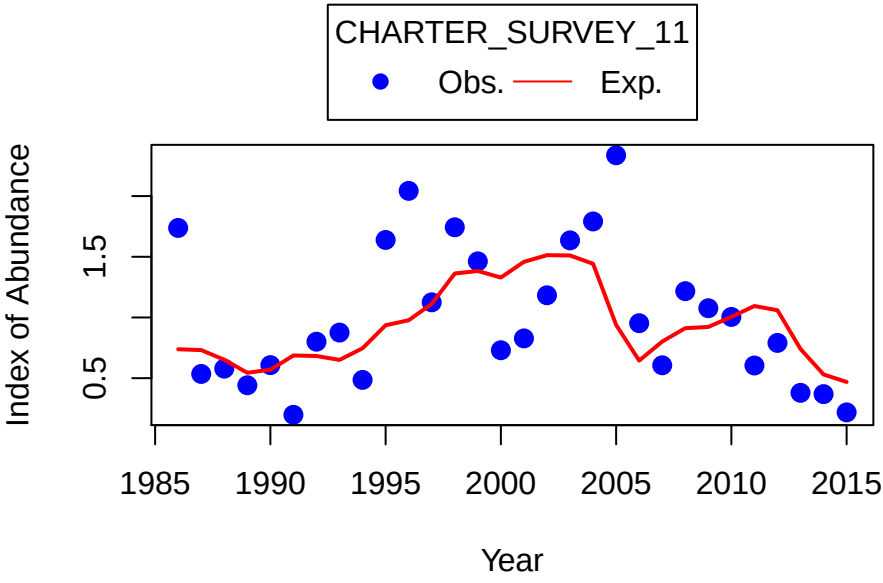

RMSE = 0.527
Deviation
−1.5
−0.5
0.0
0.5
1995
2000
2005
2010
2015
Year

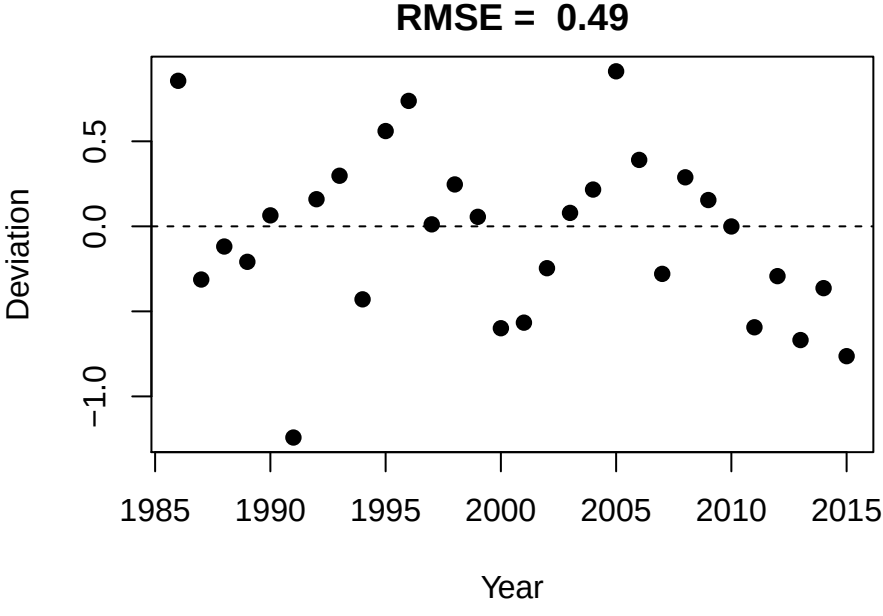

SEAMAP_Video_9
Partial ACF
0.4
0.2
0.0
−0.2
−0.4
1.0
1.2
1.4
1.6
1.8
2.0
Lag

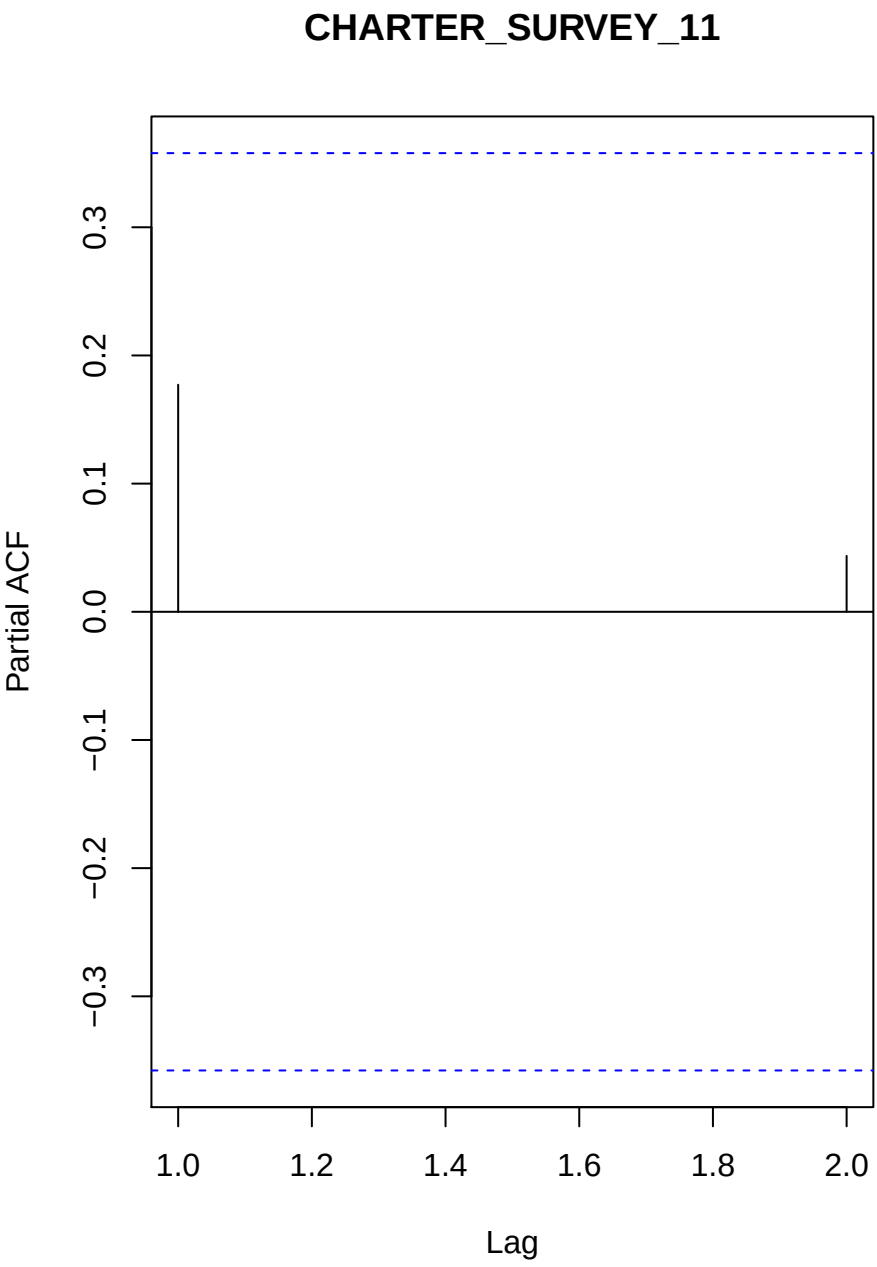

PC_Video_10
Obs.
Exp.
Index of Abundance
0.5
1.5
2.5
2006
2008
2010
2012
2014
Year


RMSE = 0.738
Deviation
−1.0
0.0
0.5
1.0
2006
2008
2010
2012
2014
Year


PC_Video_10
Partial ACF
0.6
0.4
0.2
0.0
−0.2
−0.4
−0.6
1.0
1.2
1.4
1.6
1.8
2.0
Lag


CHARTER_SURVEY_11
Obs.
Exp.
Index of Abundance
0.5
1.5
1985
1990
1995
2000
2005
2010
2015
Year


RMSE = 0.49
Deviation
−1.0
0.0
0.5
1985
1990
1995
2000
2005
2010
2015
Year


CHARTER_SURVEY_11
Partial ACF
0.3
0.2
0.1
0.0
−0.1
−0.2
−0.3
1.0
1.2
1.4
1.6
1.8
2.0
Lag