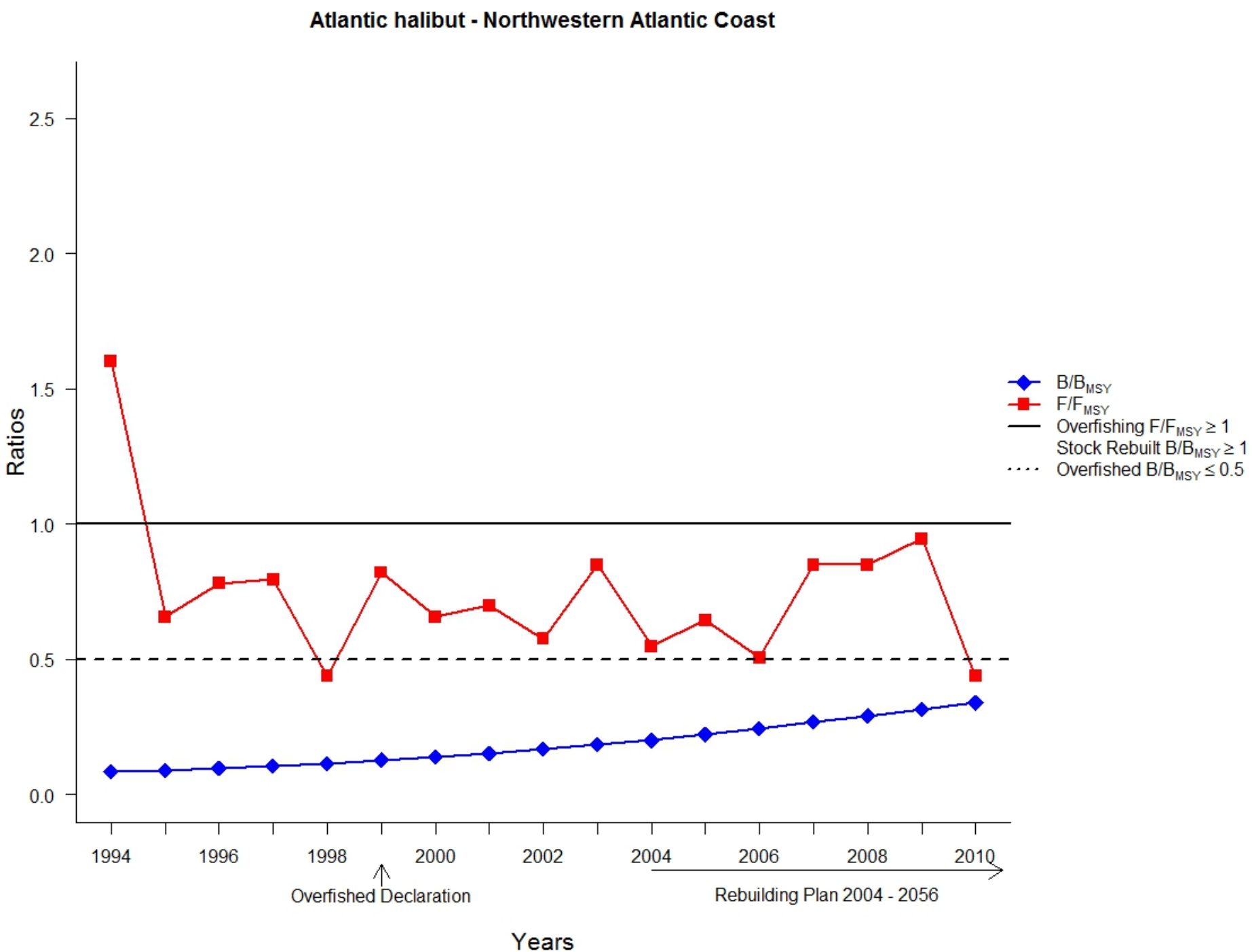
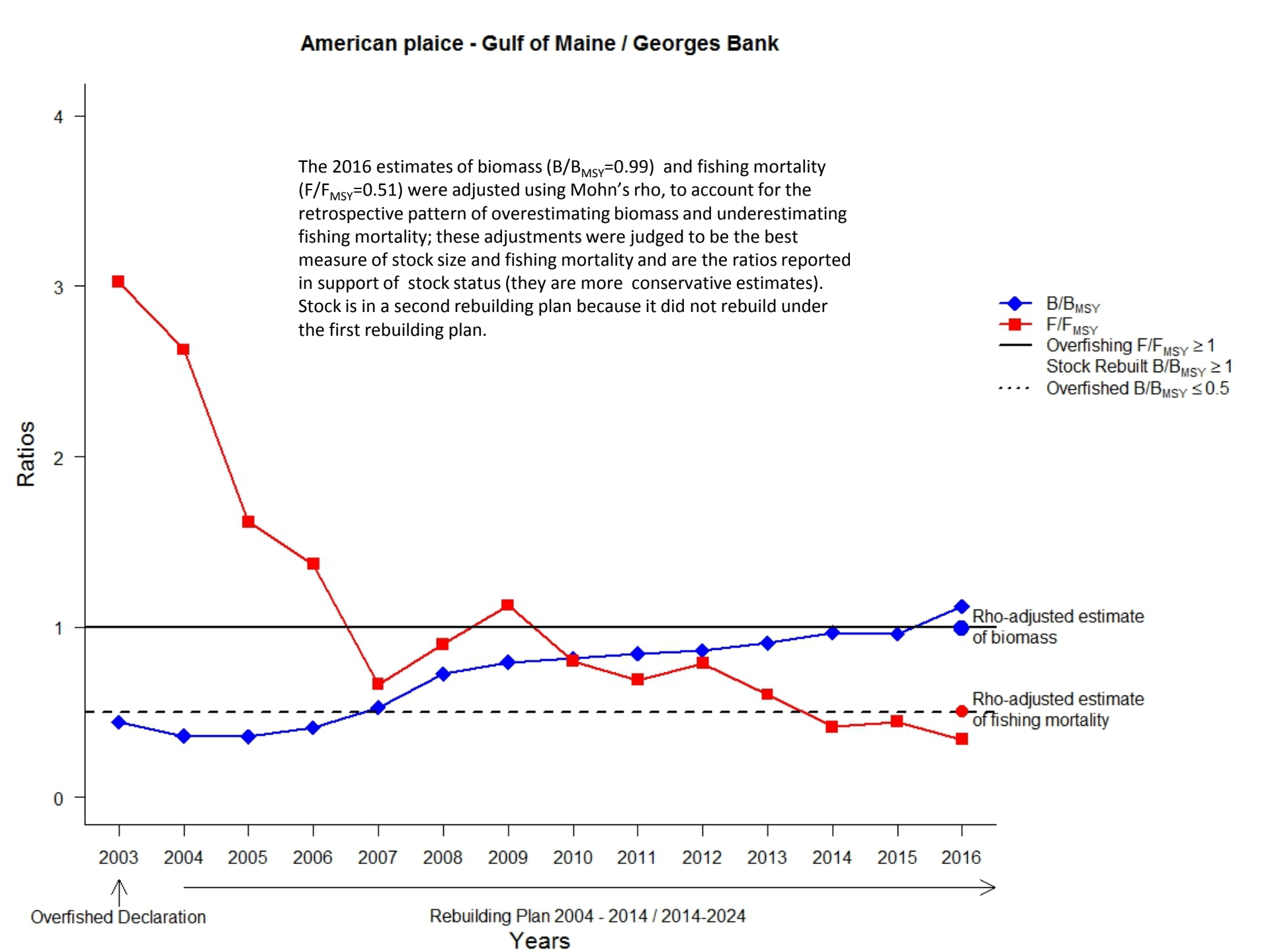
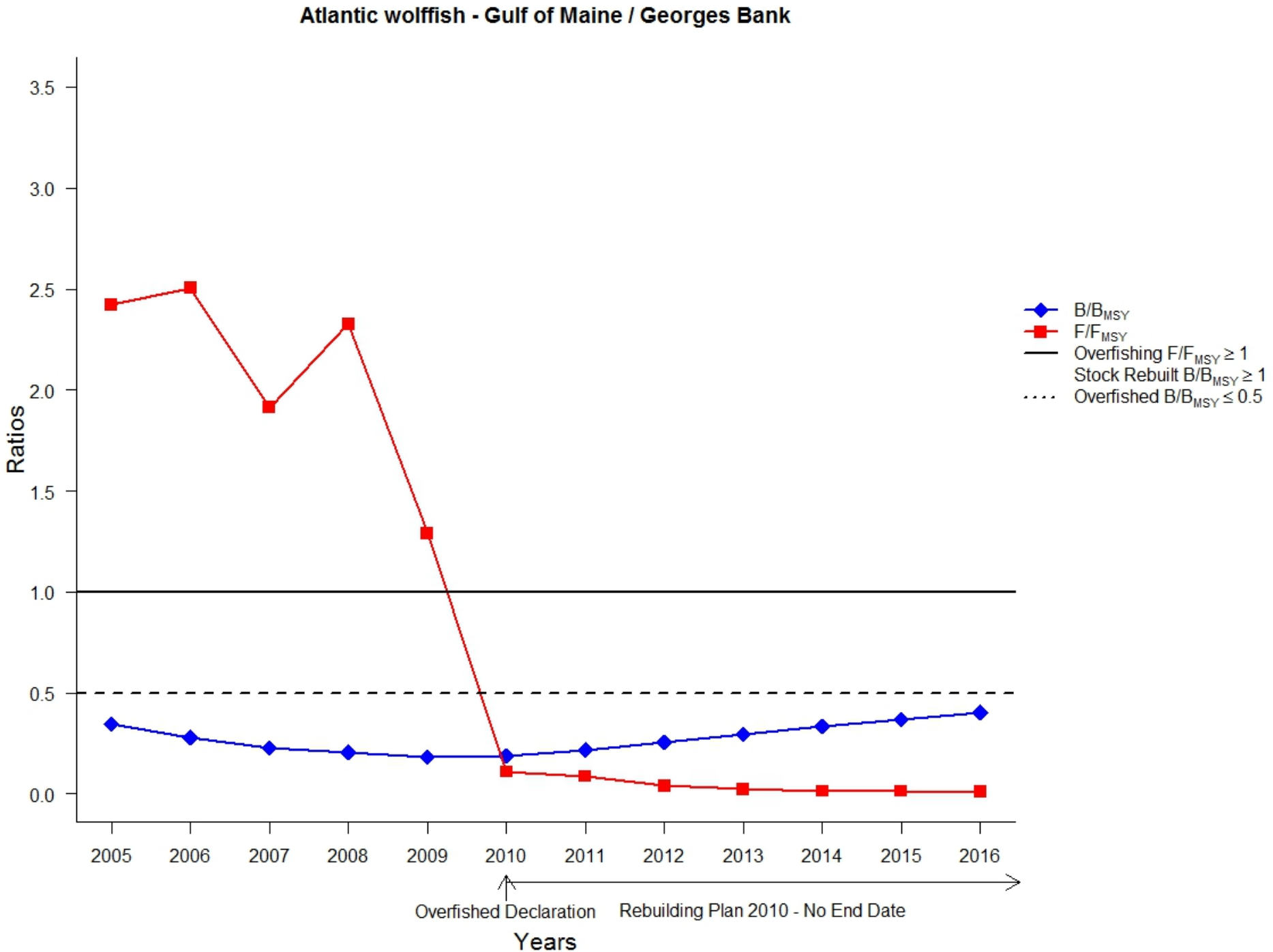
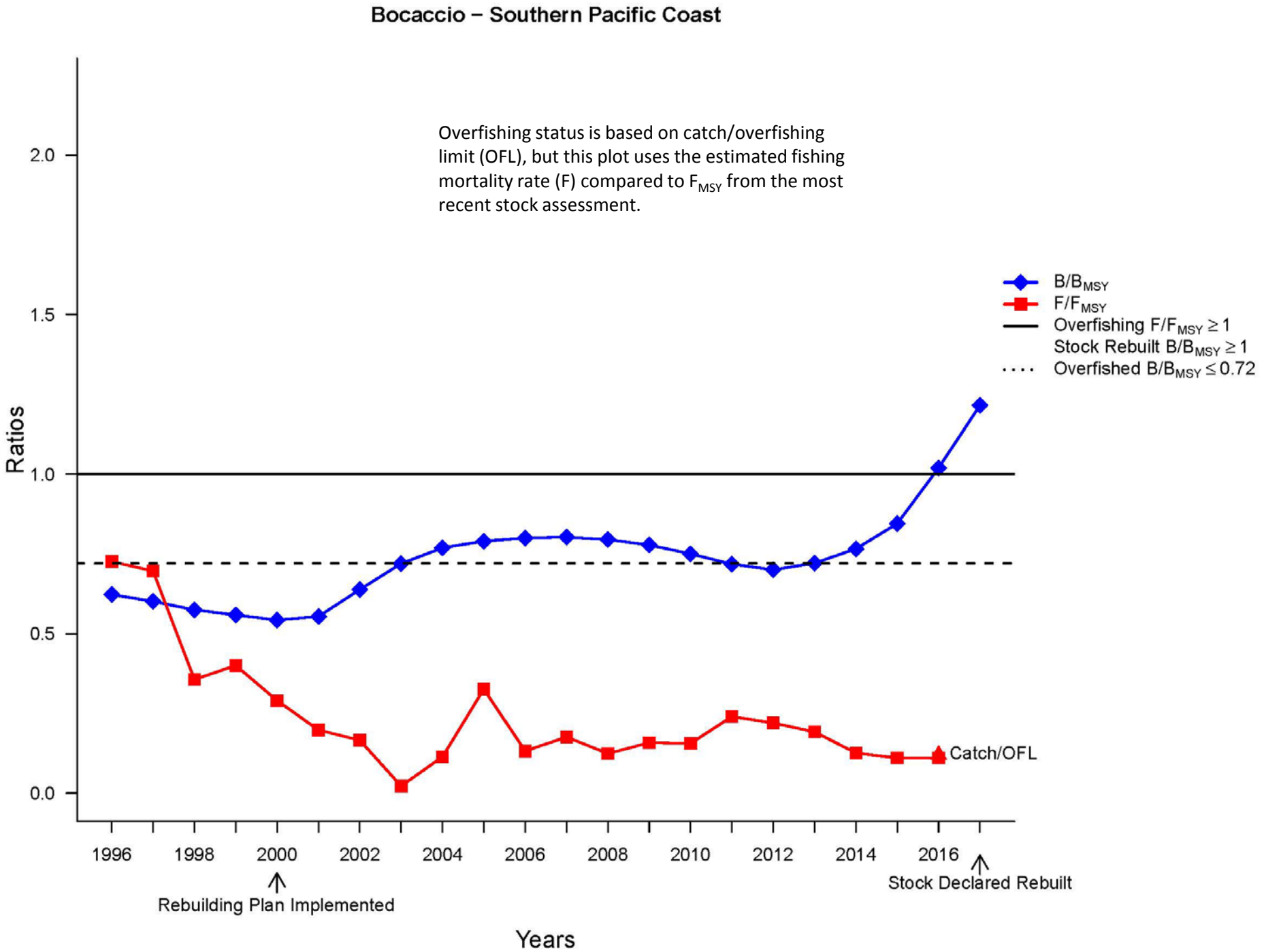
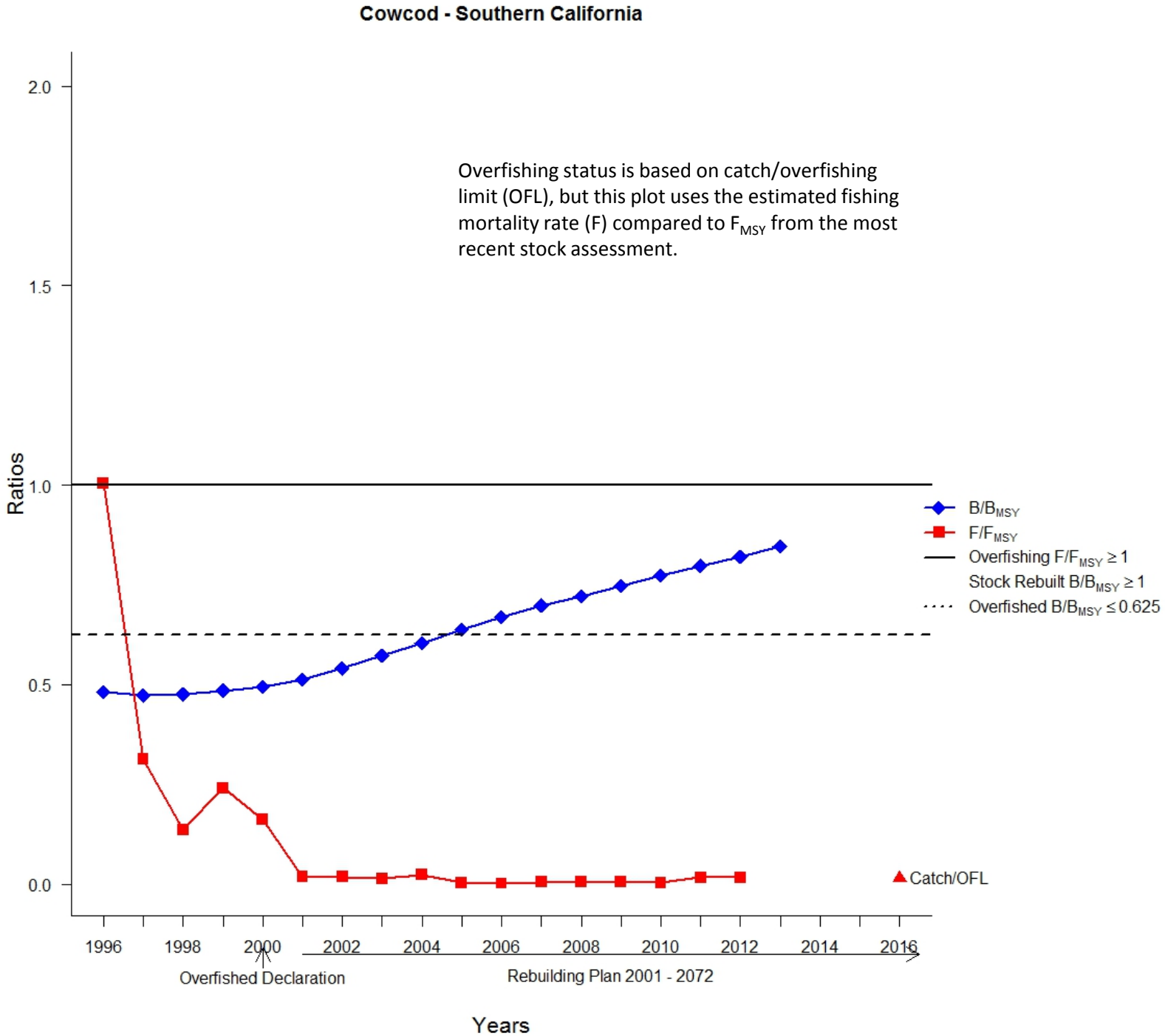
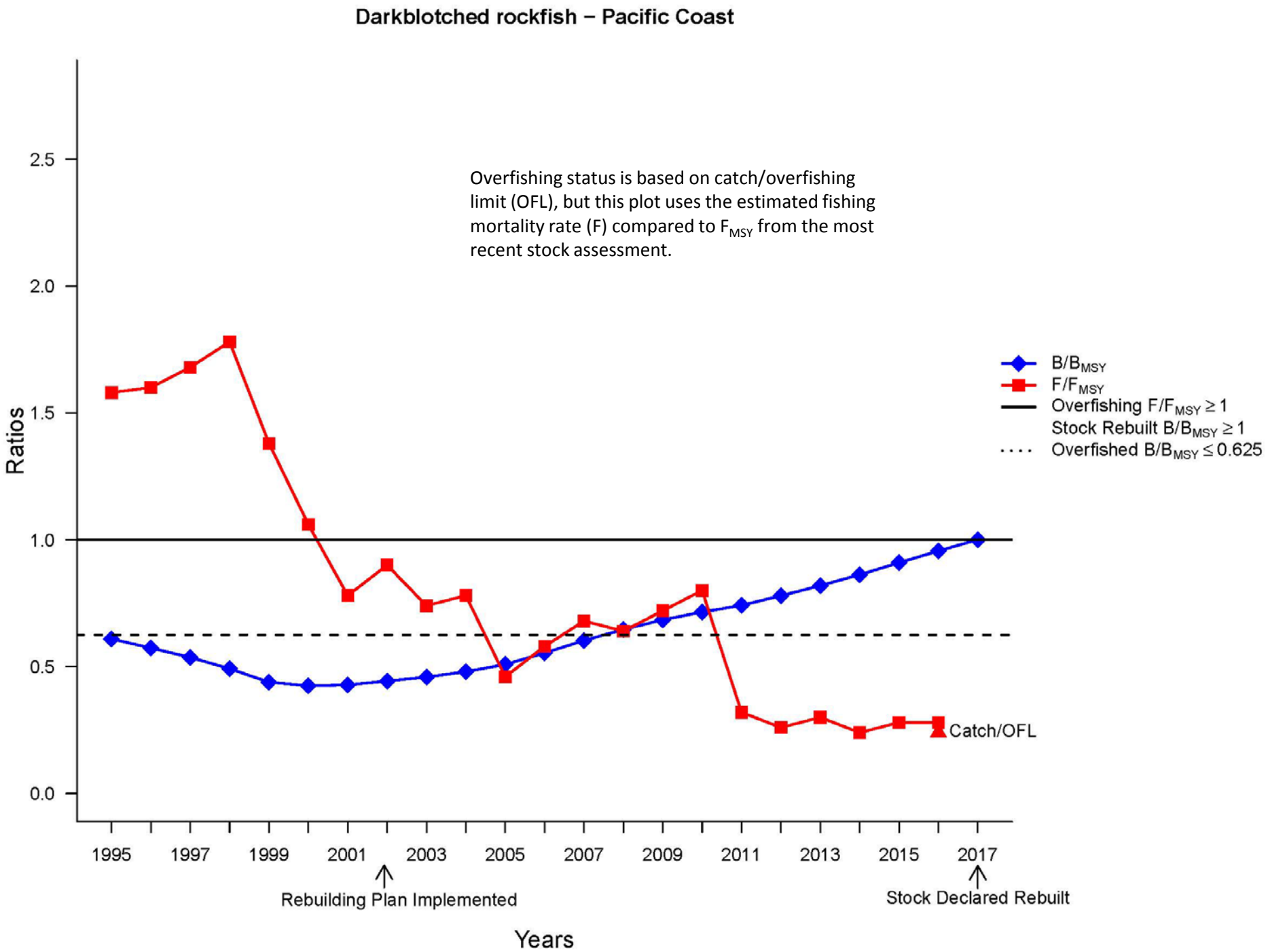

Atlantic halibut - Northwestern Atlantic Coast
Ratios
2.5
2.0
1.5
1.0
0.5
0.0
1994
1996
1998
2000
2002
2004
2006
2008
2010
Years
Overfished Declaration
Rebuilding Plan 2004 - 2056
B/B_MSY
F/F_MSY
Overfishing F/F_MSY ≥ 1
Stock Rebuilt B/B_MSY ≥ 1
Overfished B/B_MSY ≤ 0.5

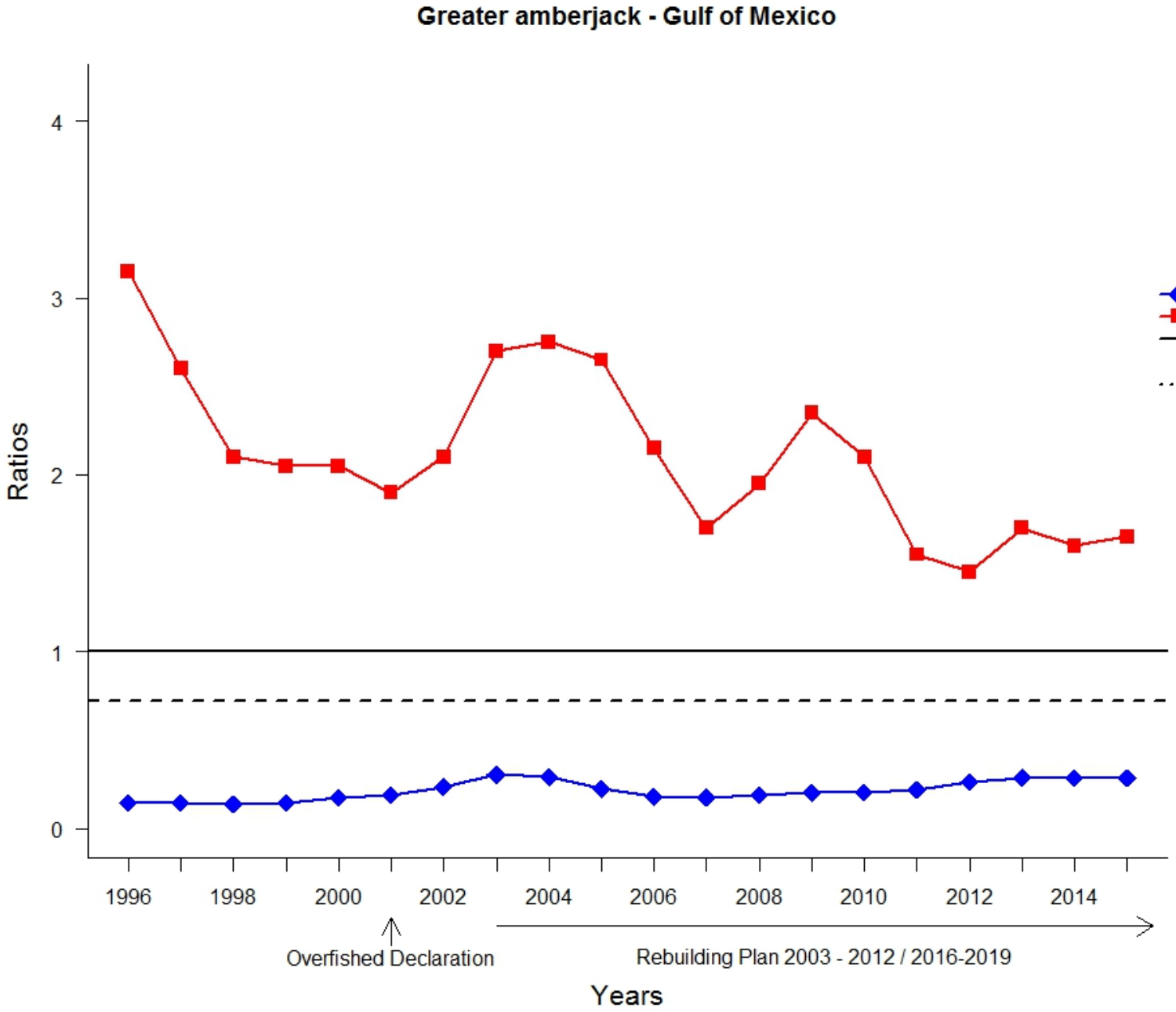

American plaice - Gulf of Maine / Georges Bank
The 2016 estimates of biomass (B/B$_{MSY}$=0.99) and fishing mortality (F/F$_{MSY}$=0.51) were adjusted using Mohn's rho, to account for the retrospective pattern of overestimating biomass and underestimating fishing mortality; these adjustments were judged to be the best measure of stock size and fishing mortality and are the ratios reported in support of stock status (they are more conservative estimates). Stock is in a second rebuilding plan because it did not rebuild under the first rebuilding plan.
B/B$_{MSY}$
F/F$_{MSY}$
Overfishing F/F$_{MSY}$ ≥ 1
Stock Rebuilt B/B$_{MSY}$ ≥ 1
Overfished B/B$_{MSY}$ ≤ 0.5
Rho-adjusted estimate of biomass
Rho-adjusted estimate of fishing mortality
Ratios
0
1
2
3
4
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
Overfished Declaration
Rebuilding Plan 2004 - 2014 / 2014-2024
Years


Atlantic wolffish - Gulf of Maine / Georges Bank
Ratios
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
B/B_MSY
F/F_MSY
Overfishing F/F_MSY ≥ 1
Stock Rebuilt B/B_MSY ≥ 1
Overfished B/B_MSY ≤ 0.5
Overfished Declaration
Rebuilding Plan 2010 - No End Date
Years


Bocaccio – Southern Pacific Coast
Overfishing status is based on catch/overfishing limit (OFL), but this plot uses the estimated fishing mortality rate (F) compared to F_{MSY} from the most recent stock assessment.
B/B_{MSY}
F/F_{MSY}
Overfishing $F/F_{MSY} \geq 1$
Stock Rebuilt $B/B_{MSY} \geq 1$
Overfished $B/B_{MSY} \leq 0.72$
Catch/OFL
Ratios
2.0
1.5
1.0
0.5
0.0
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
2016
Rebuilding Plan Implemented
Stock Declared Rebuilt
Years

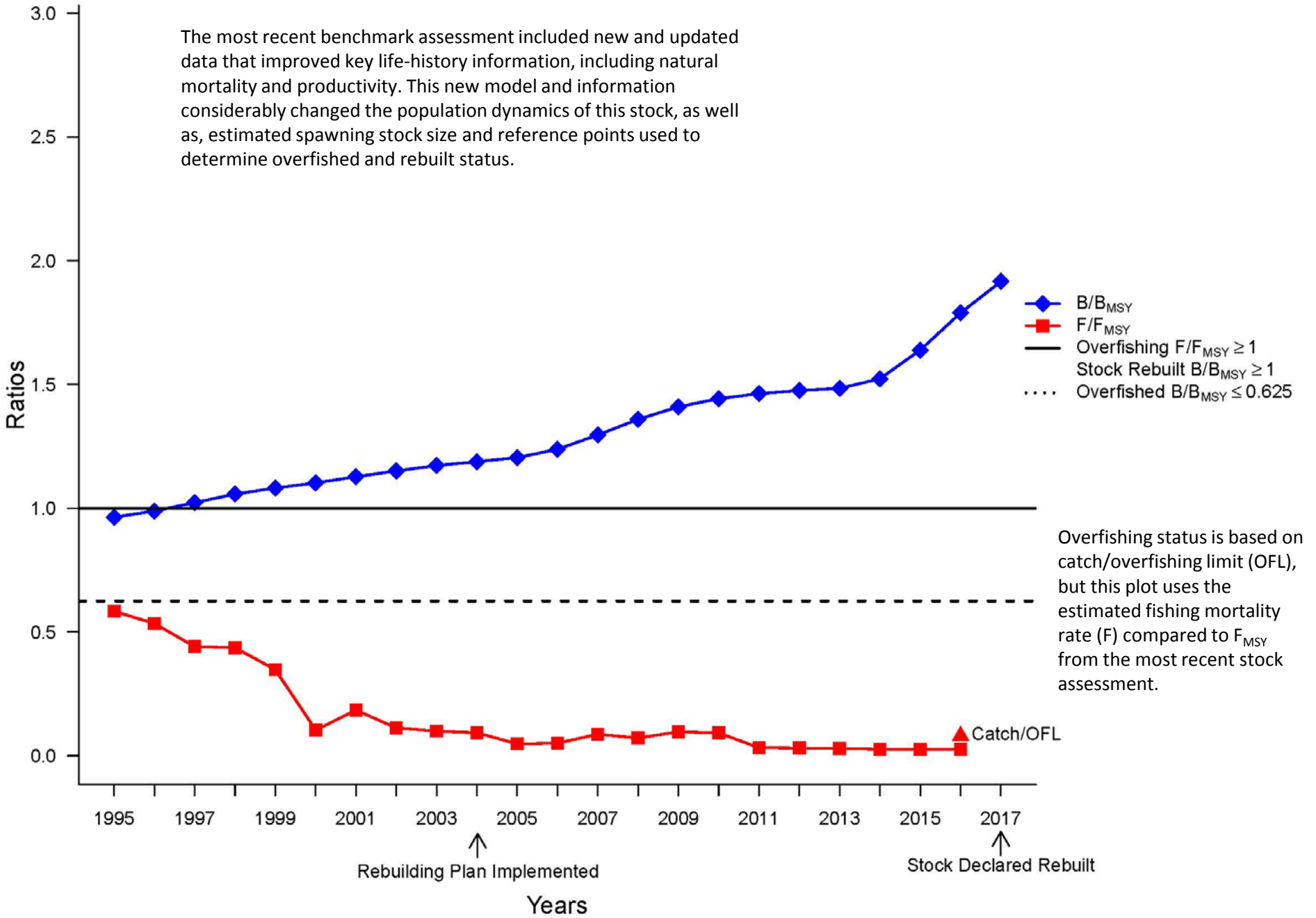

Cowcod - Southern California
Overfishing status is based on catch/overfishing limit (OFL), but this plot uses the estimated fishing mortality rate (F) compared to F_{MSY} from the most recent stock assessment.
Ratios
2.0
1.5
1.0
0.5
0.0
B/B_{MSY}
F/F_{MSY}
Overfishing $F/F_{MSY} \geq 1$
Stock Rebuilt $B/B_{MSY} \geq 1$
Overfished $B/B_{MSY} \leq 0.625$
Catch/OFL
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
2016
Overfished Declaration
Rebuilding Plan 2001 - 2072
Years

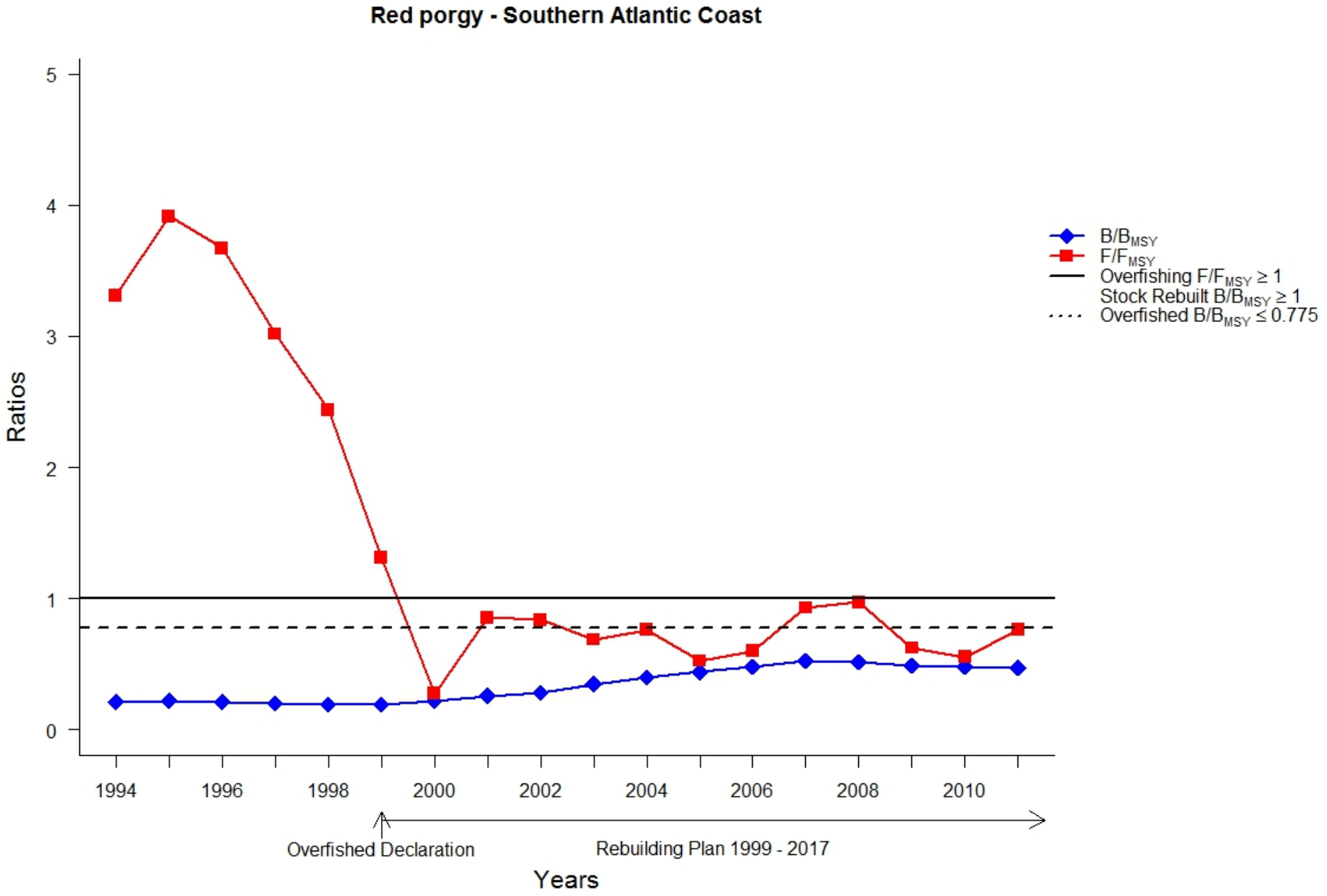

Darkblotched rockfish – Pacific Coast
Overfishing status is based on catch/overfishing limit (OFL), but this plot uses the estimated fishing mortality rate (F) compared to F_{MSY} from the most recent stock assessment.
B/B$_{MSY}$
F/F$_{MSY}$
Overfishing F/F$_{MSY}$ ≥ 1
Stock Rebuilt B/B$_{MSY}$ ≥ 1
Overfished B/B$_{MSY}$ ≤ 0.625
Catch/OFL
Ratios
2.5
2.0
1.5
1.0
0.5
0.0
1995
1997
1999
2001
2003
2005
2007
2009
2011
2013
2015
2017
Rebuilding Plan Implemented
Stock Declared Rebuilt
Years



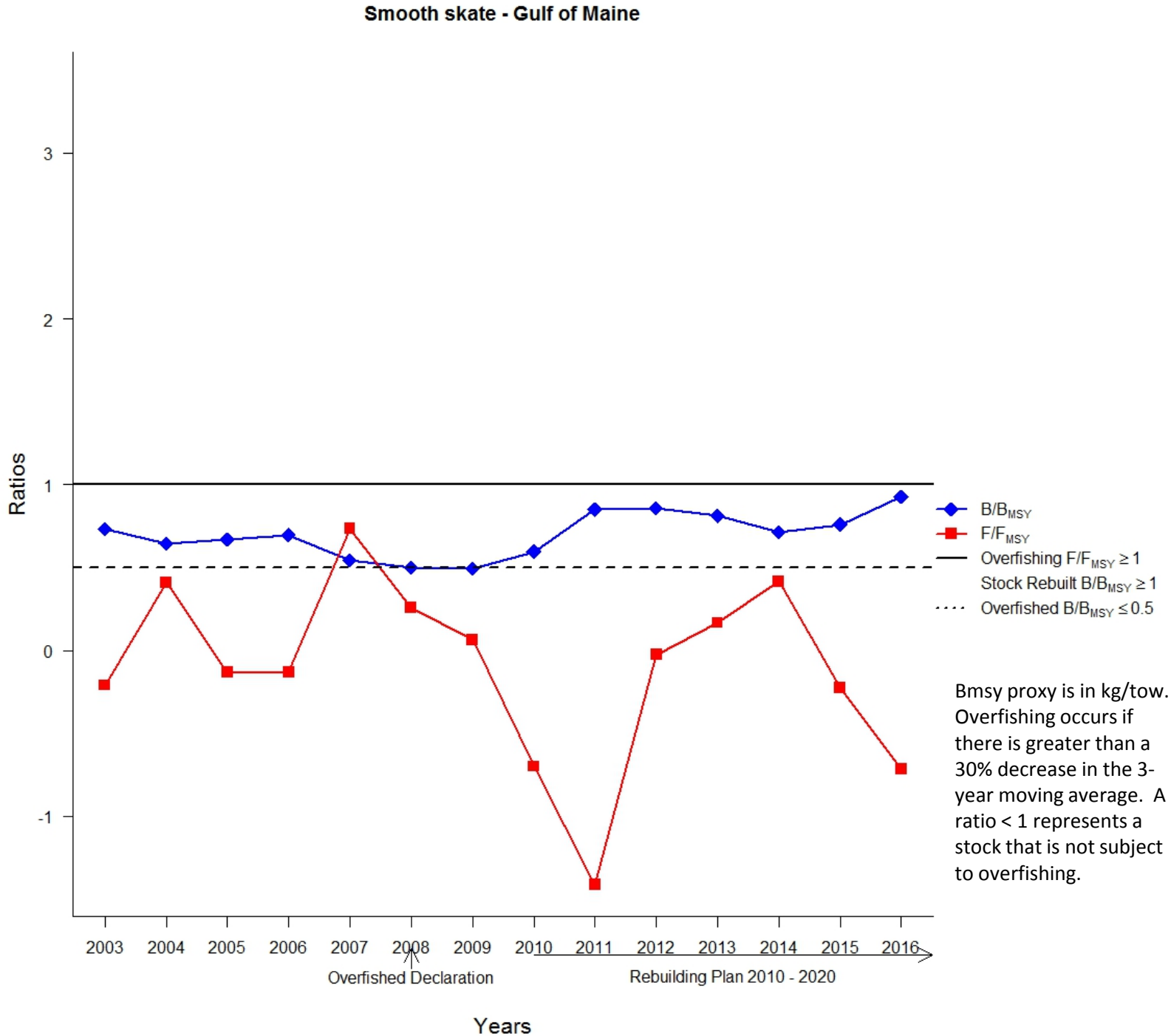
This stock was in a 10-year rebuilding plan from 2003-2012. Rebuilding measures continued through 2013-2015, and a new rebuilding plan was implemented in 2016.

Pacific ocean perch – Pacific Coast

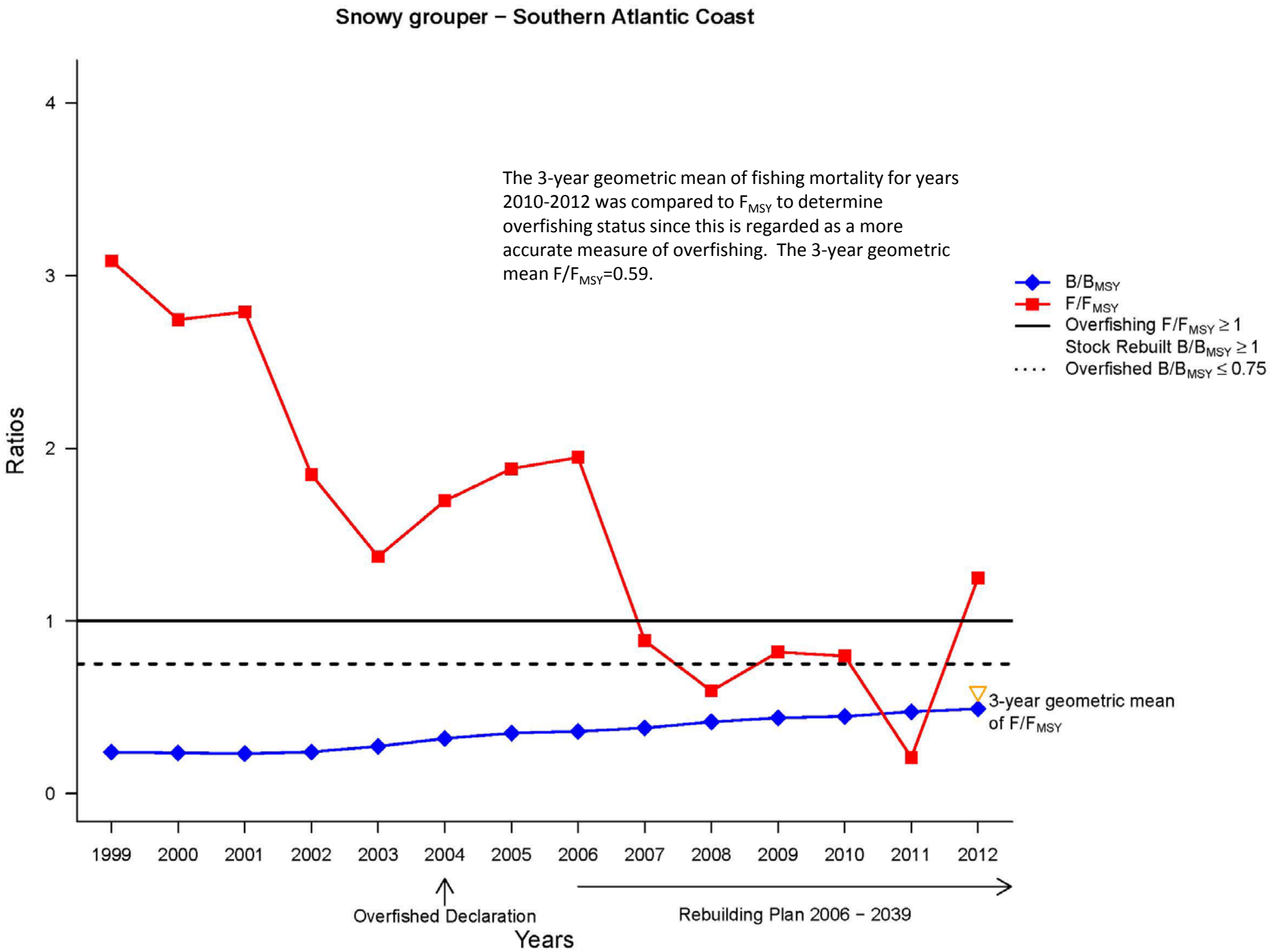



Red porgy - Southern Atlantic Coast
Ratios
0
1
2
3
4
5
1994
1996
1998
2000
2002
2004
2006
2008
2010
Years
B/B_MSY
F/F_MSY
Overfishing F/F_MSY ≥ 1
Stock Rebuilt B/B_MSY ≥ 1
Overfished B/B_MSY ≤ 0.775
Overfished Declaration
Rebuilding Plan 1999 - 2017

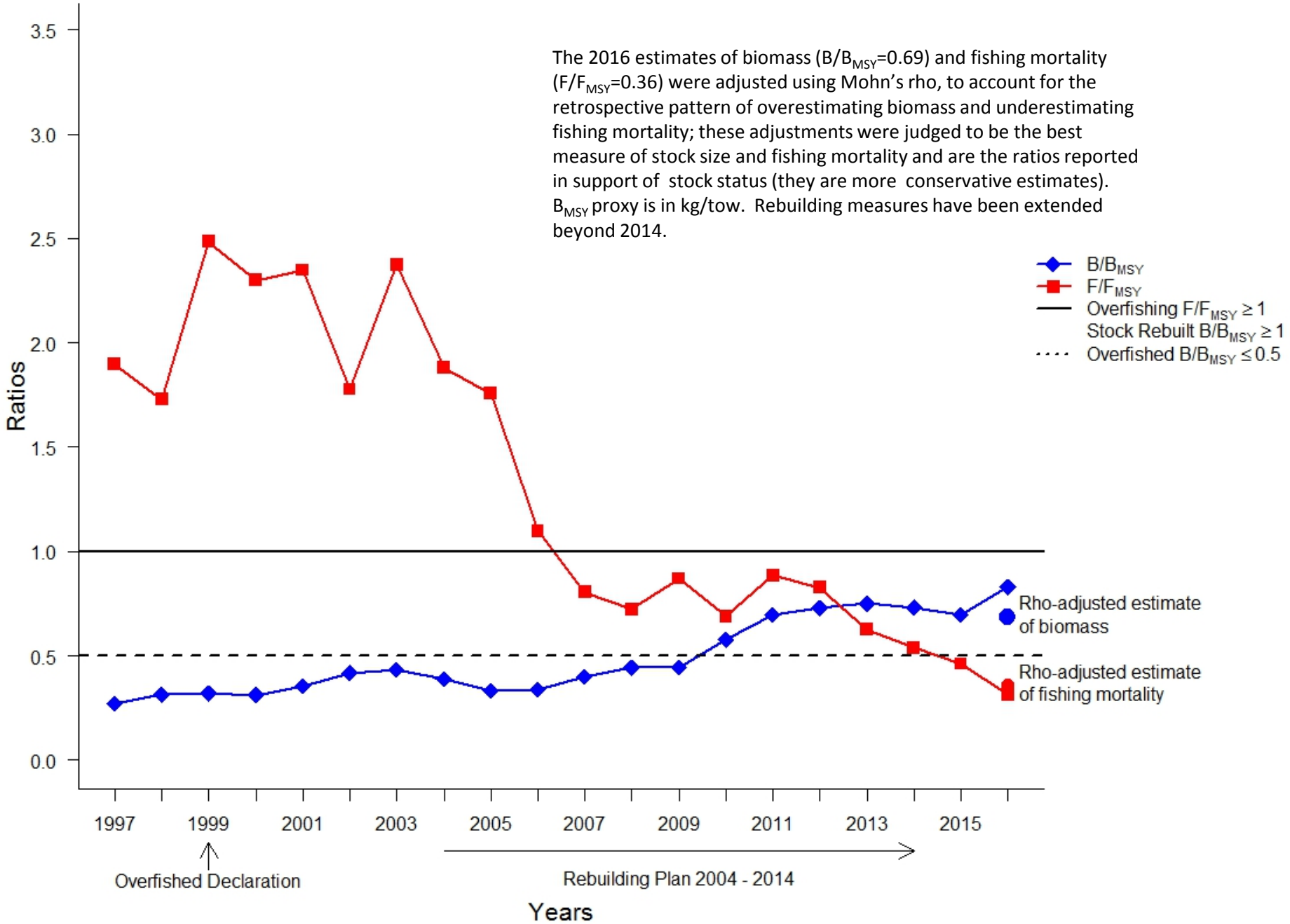

Red snapper - Gulf of Mexico
Overfishing status is based on catch/overfishing limit (OFL). The estimated fishing mortality rate (F) compared to F_{MSY} is from the most recent stock assessment.
B/B_{MSY}
F/F_{MSY}
Overfishing $F/F_{MSY} \geq 1$
Stock Rebuilt $B/B_{MSY} \geq 1$
Overfished $B/B_{MSY} \leq 0.595$
Catch/OFL
Ratios
0
1
2
3
1999
2001
2003
2005
2007
2009
2011
2013
2015
Overfished Declaration
Rebuilding Plan 2005 - 2032
Years

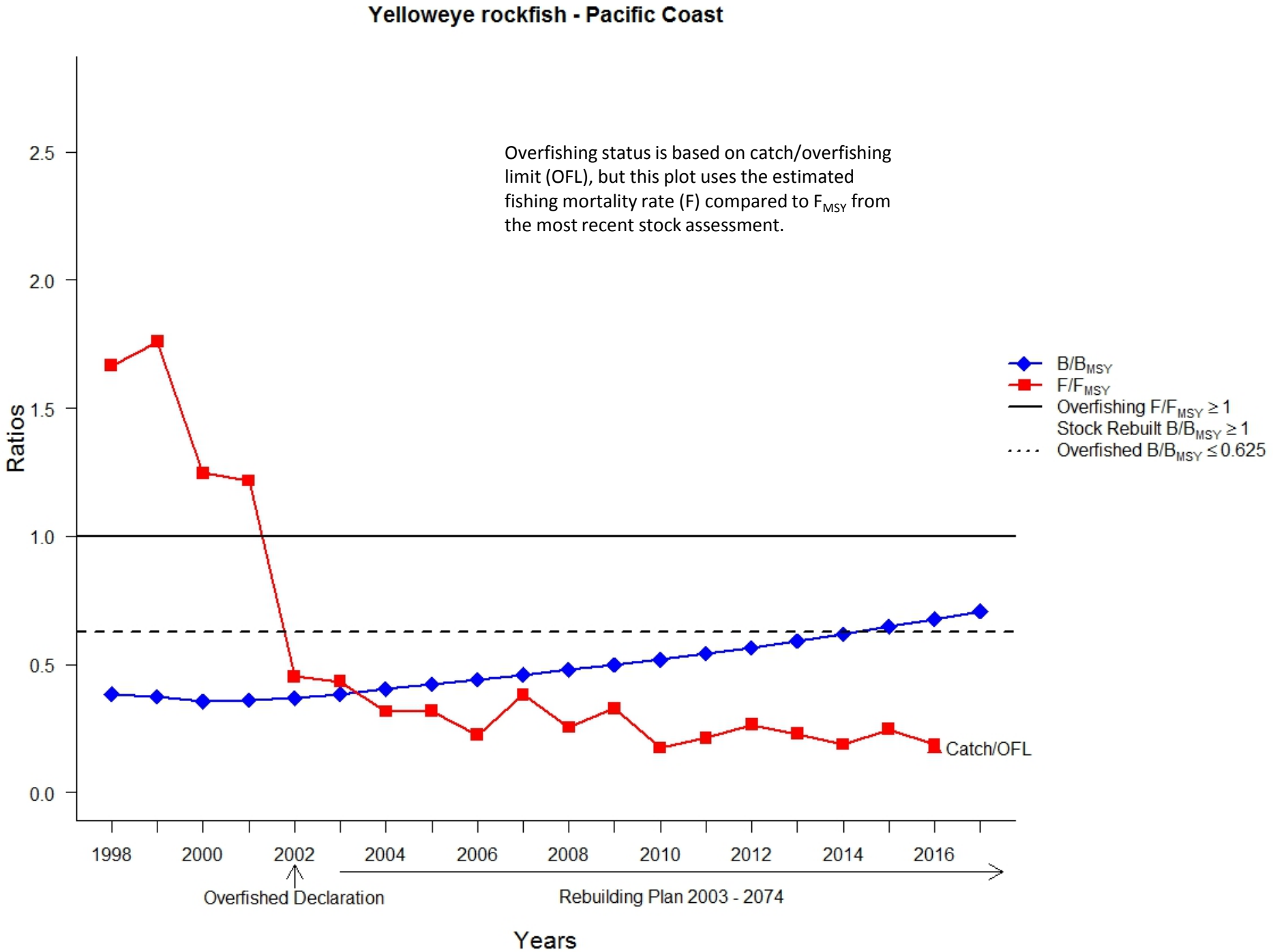


Bmsy proxy is in kg/tow. Overfishing occurs if there is greater than a 30% decrease in the 3-year moving average. A ratio < 1 represents a stock that is not subject to overfishing.


Snowy grouper – Southern Atlantic Coast
The 3-year geometric mean of fishing mortality for years 2010-2012 was compared to F_{MSY} to determine overfishing status since this is regarded as a more accurate measure of overfishing. The 3-year geometric mean F/F_{MSY}=0.59.
B/B_{MSY}
F/F_{MSY}
Overfishing $F/F_{MSY} \geq 1$
Stock Rebuilt $B/B_{MSY} \geq 1$
Overfished $B/B_{MSY} \leq 0.75$
3-year geometric mean of F/F_{MSY}
Ratios
0
1
2
3
4
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
Overfished Declaration
Rebuilding Plan 2006 – 2039
Years

White hake - Gulf of Maine / Georges Bank




Yelloweye rockfish - Pacific Coast
Overfishing status is based on catch/overfishing limit (OFL), but this plot uses the estimated fishing mortality rate (F) compared to F_{MSY} from the most recent stock assessment.
Ratios
2.5
2.0
1.5
1.0
0.5
0.0
B/B_{MSY}
F/F_{MSY}
Overfishing $F/F_{MSY} \geq 1$
Stock Rebuilt $B/B_{MSY} \geq 1$
Overfished $B/B_{MSY} \leq 0.625$
Catch/OFL
1998
2000
2002
2004
2006
2008
2010
2012
2014
2016
Overfished Declaration
Rebuilding Plan 2003 - 2074
Years