LONG-TERM CHANGES IN FLORIDA BAY SEAGRASS COMMUNITIES: A TALE OF RESILIENCE AND VULNERABILITY

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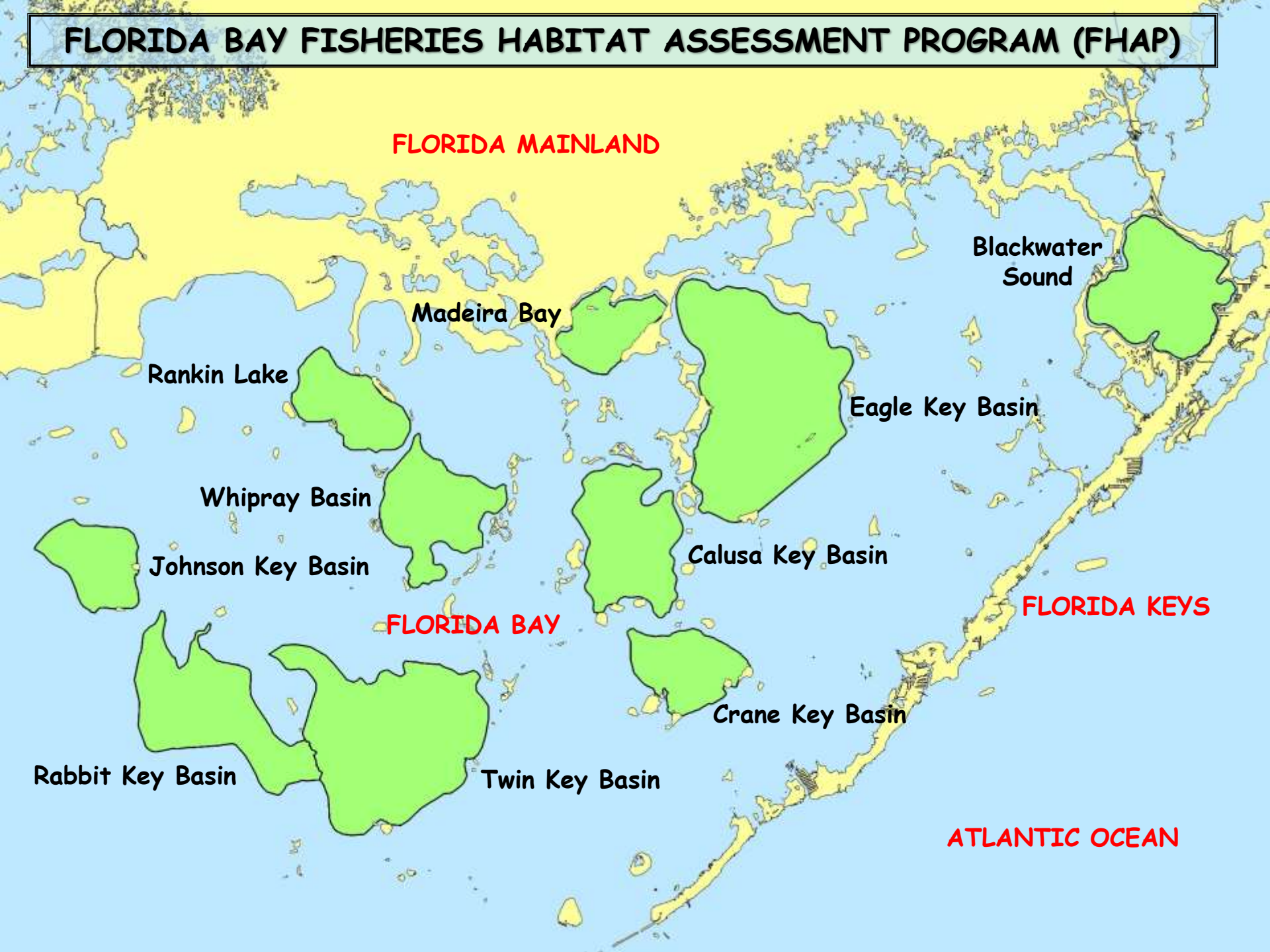
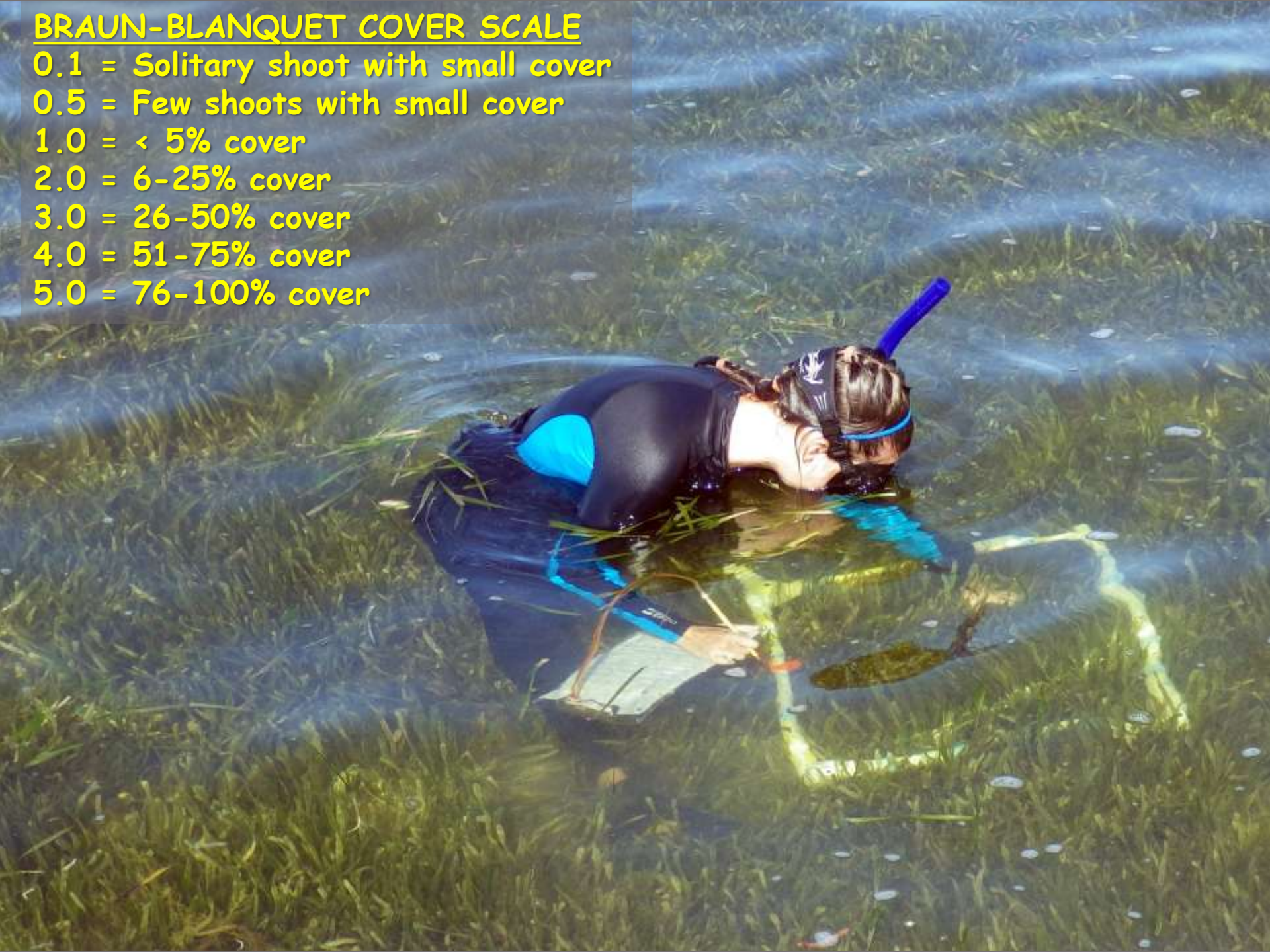
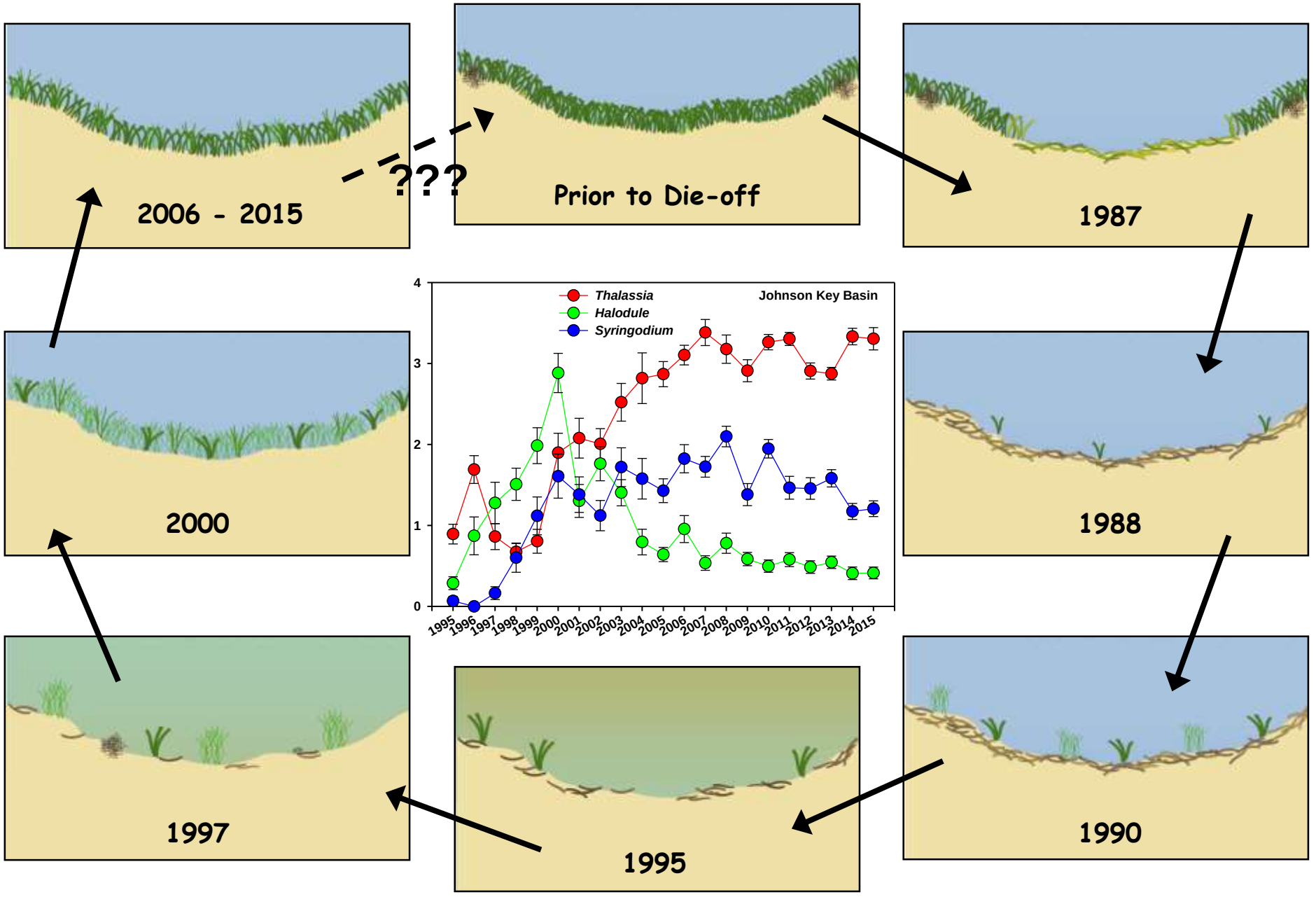
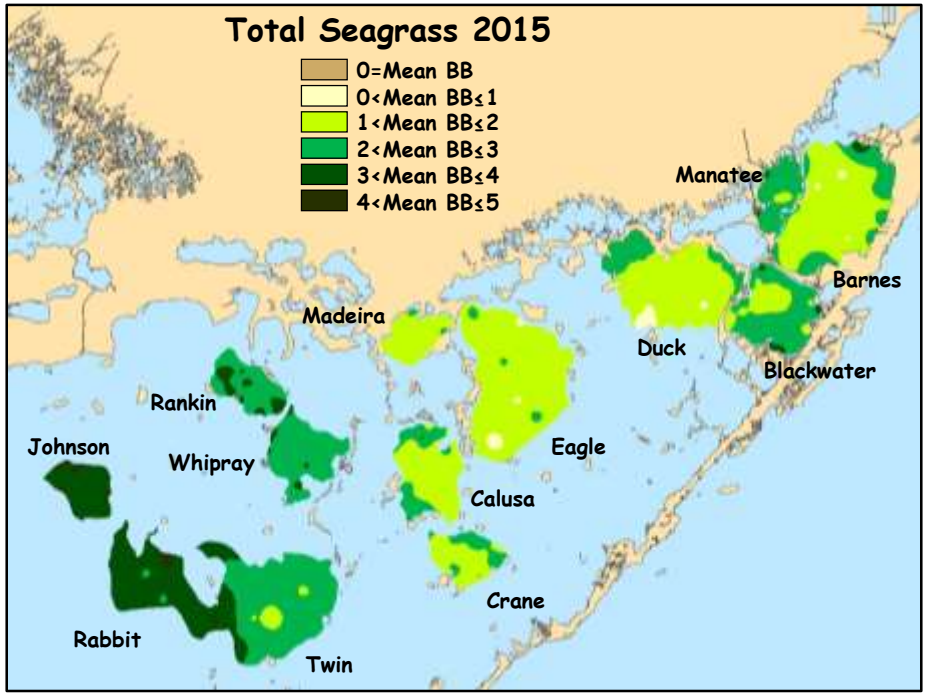
[4]University of South Florida, Department of Integrative Ecology

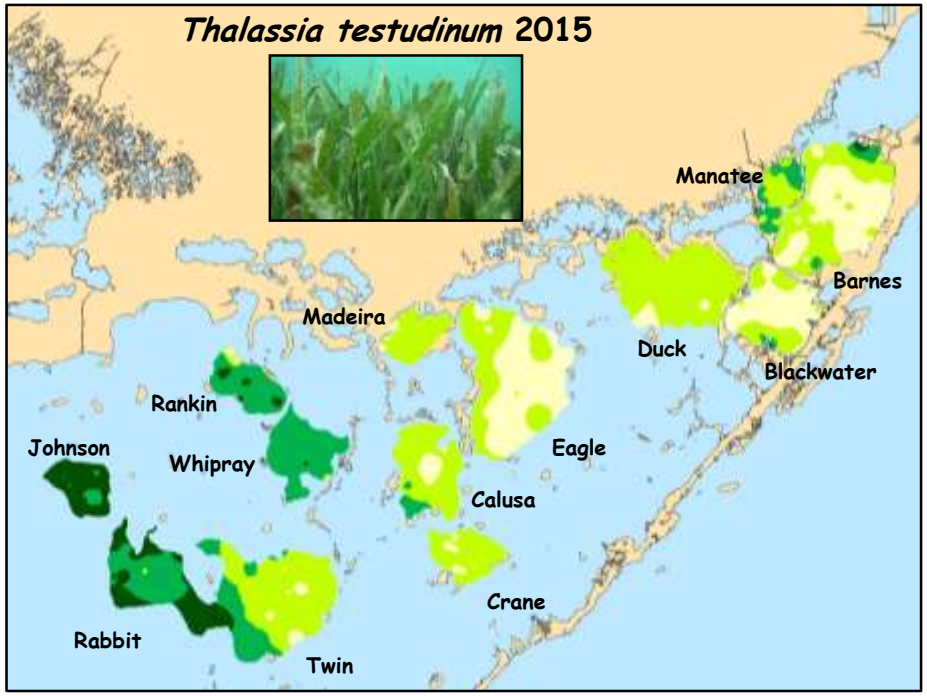
FLORIDA BAY FISHERIES HABITAT ASSESSMENT PROGRAM (FHAP)

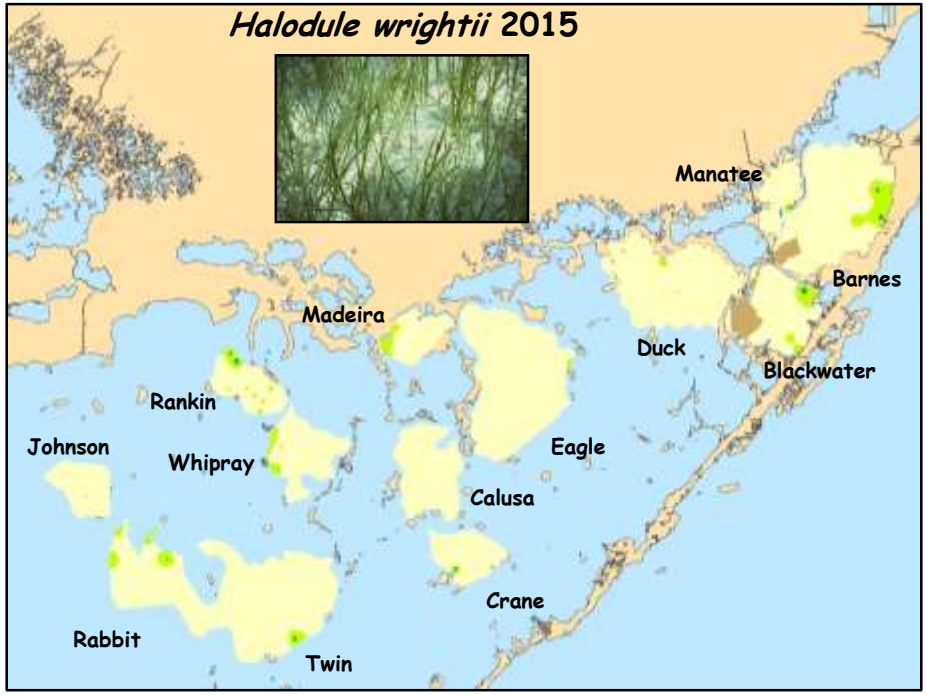


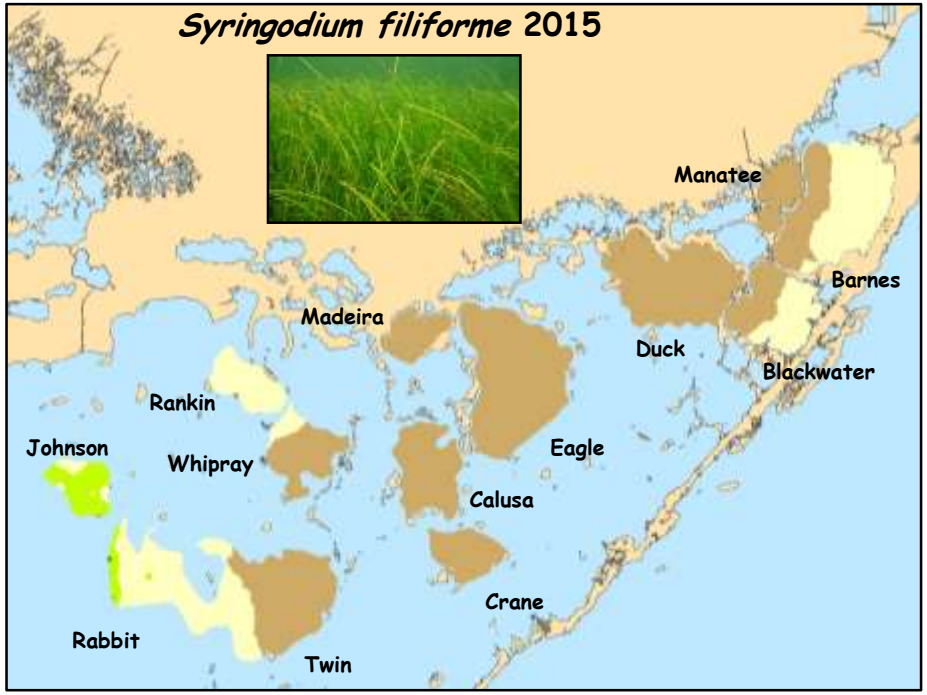

BRAUN-BLANQUET COVER SCALE
0.1 = Solitary shoot with small cover
0.5 = Few shoots with small cover
1.0 = < 5% cover
2.0 = 6-25% cover
3.0 = 26-50% cover
4.0 = 51-75% cover
5.0 = 76-100% cover

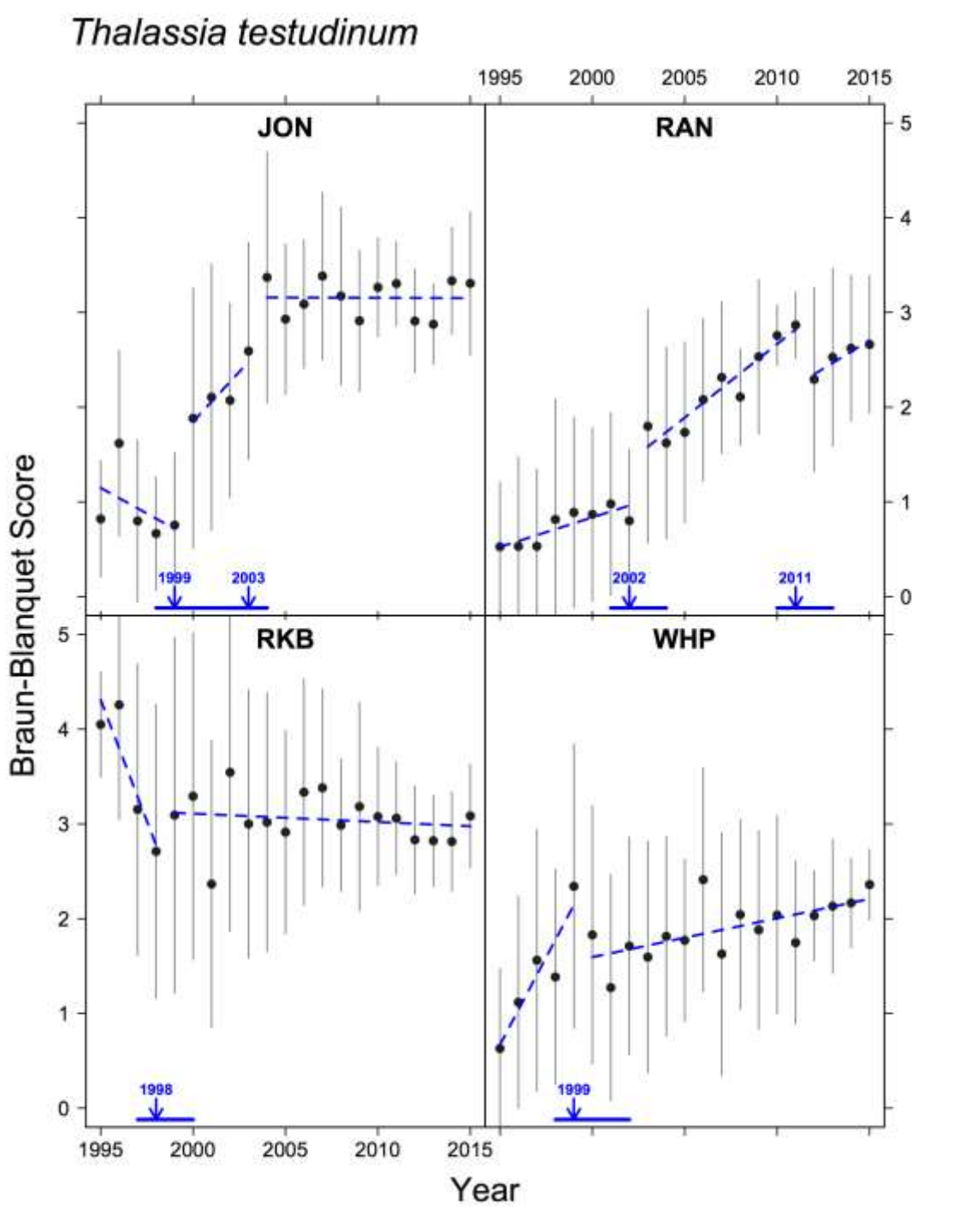

2006 - 2015
???
Prior to Die-off
1987
2000
1988
1997
1995
1990
Thalassia
Halodule
Syringodium
Johnson Key Basin
0
1
2
3
4
1995
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015

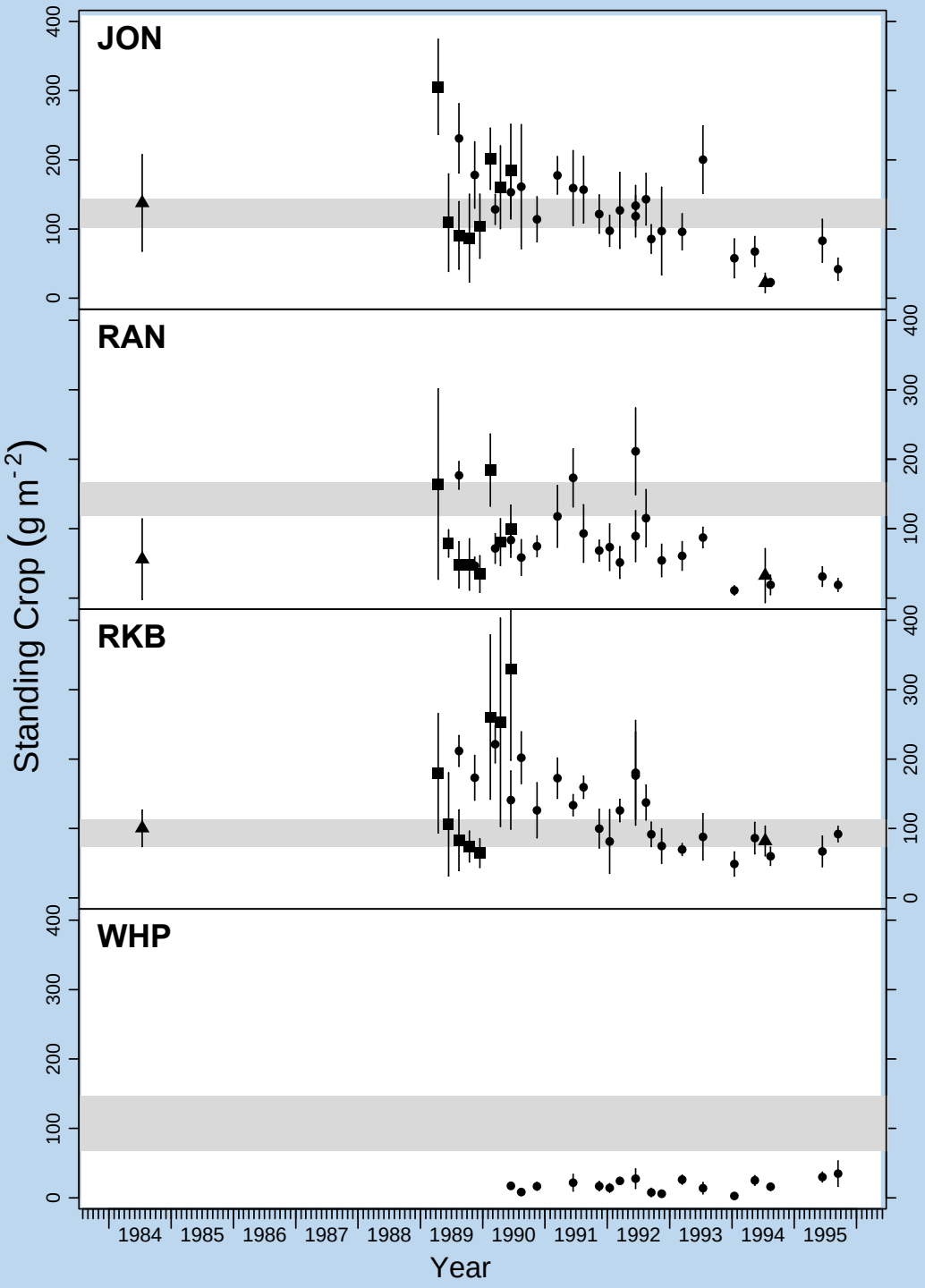

Total Seagrass 2015
0=Mean BB
0<Mean BB≤1
1<Mean BB≤2
2<Mean BB≤3
3<Mean BB≤4
4<Mean BB≤5
Manatee
Barnes
Madeira
Duck
Blackwater
Rankin
Johnson
Whipray
Eagle
Calusa
Crane
Rabbit
Twin

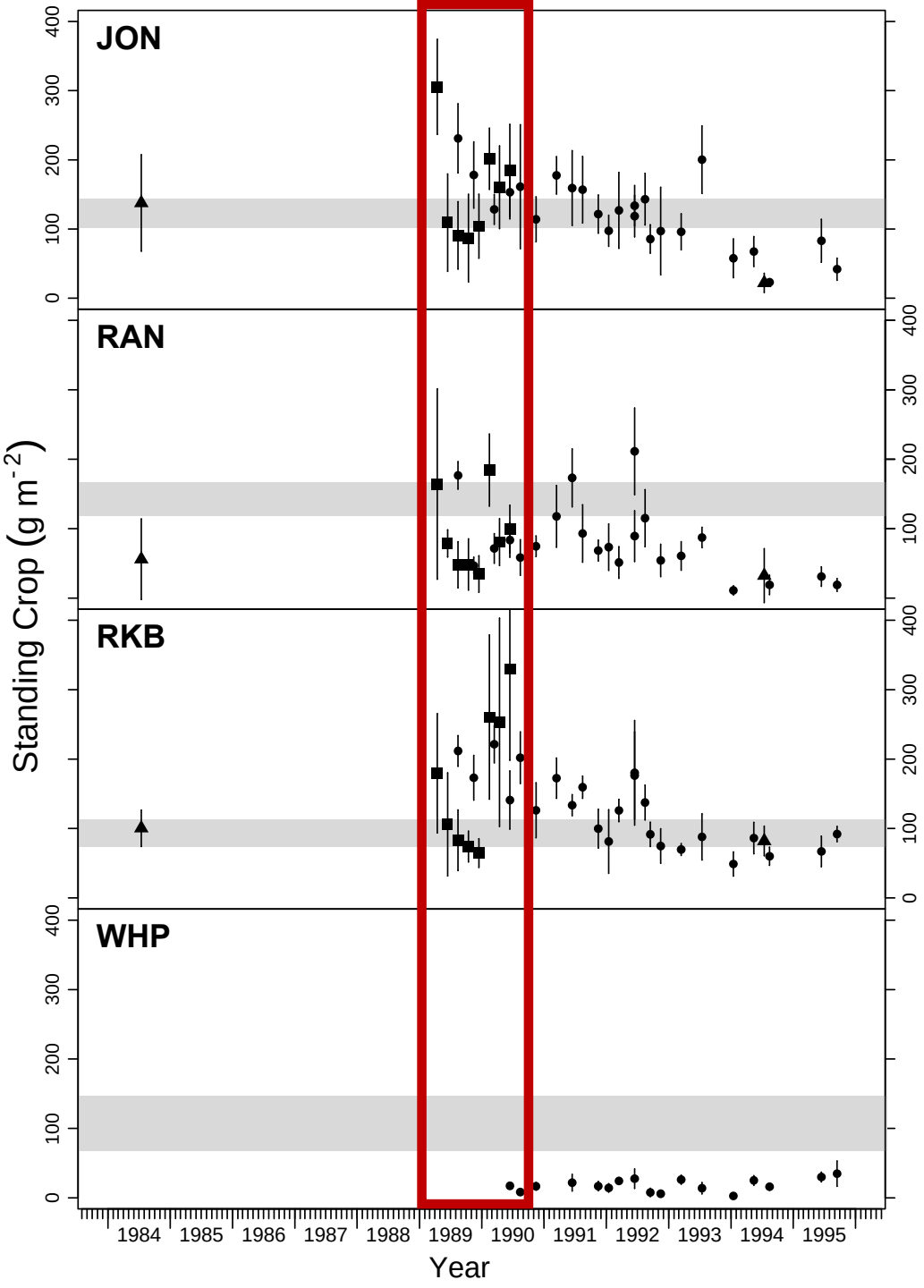

Thalassia testudinum 2015
Manatee
Barnes
Madeira
Duck
Blackwater
Rankin
Johnson
Whipray
Eagle
Calusa
Crane
Rabbit
Twin

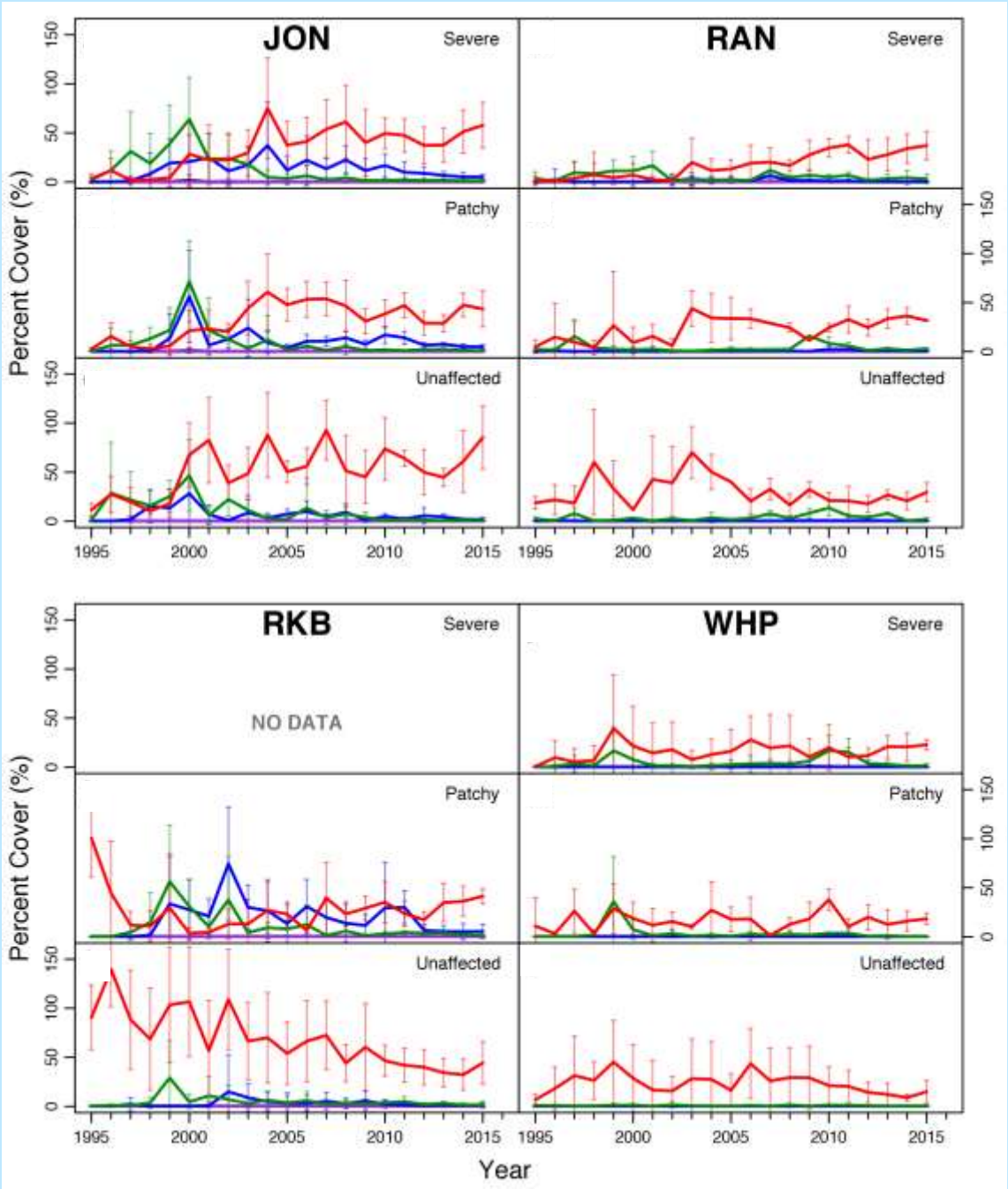

Halodule wrightii 2015
Manatee
Barnes
Madeira
Duck
Blackwater
Rankin
Johnson
Whipray
Eagle
Calusa
Crane
Rabbit
Twin

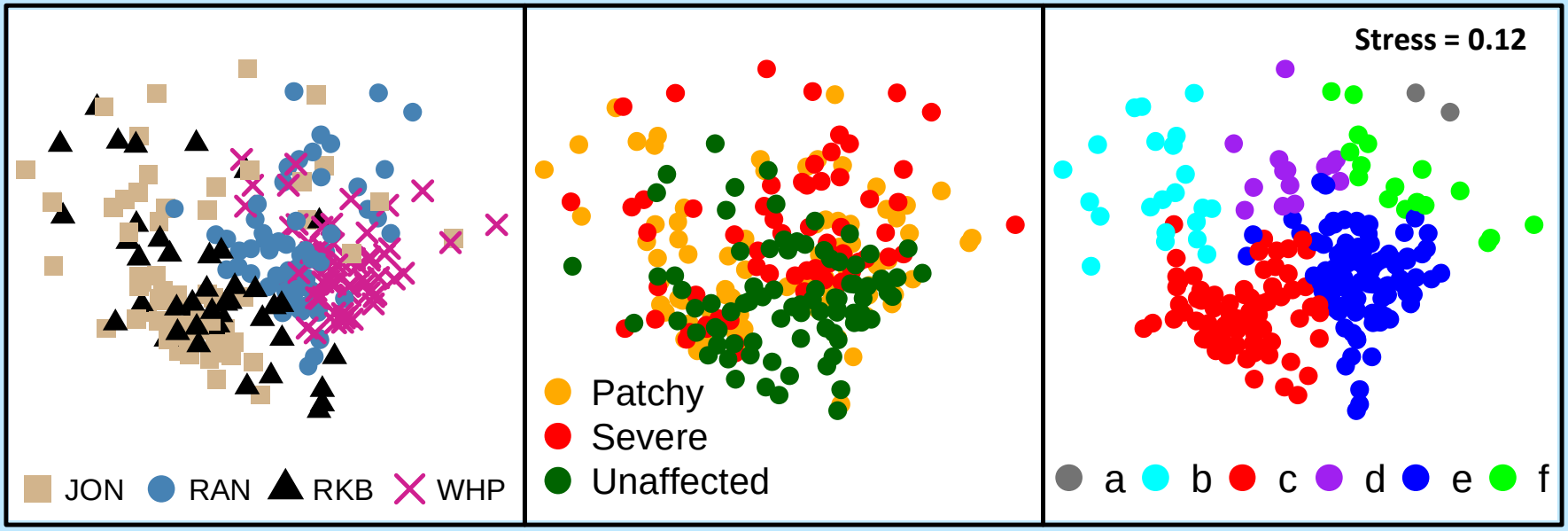

Syringodium filiforme 2015
Manatee
Barnes
Madeira
Duck
Blackwater
Rankin
Johnson
Whipray
Eagle
Calusa
Crane
Rabbit
Twin

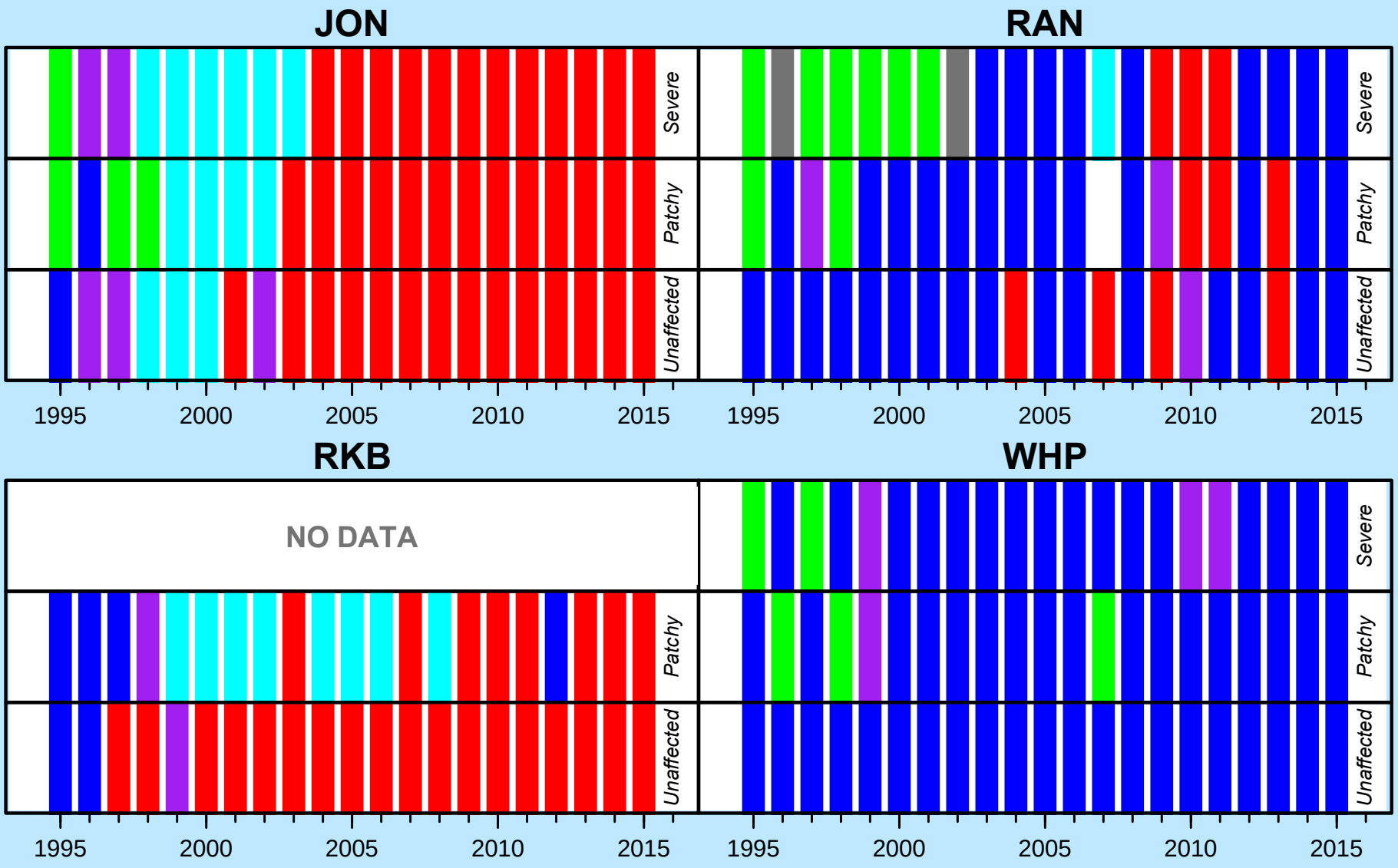

Thalassia testudinum
JON
RAN
RKB
WHP
1999
2003
2002
2011
1998
1999
Braun-Blanquet Score
Year
0
1
2
3
4
5
1995
2000
2005
2010
2015

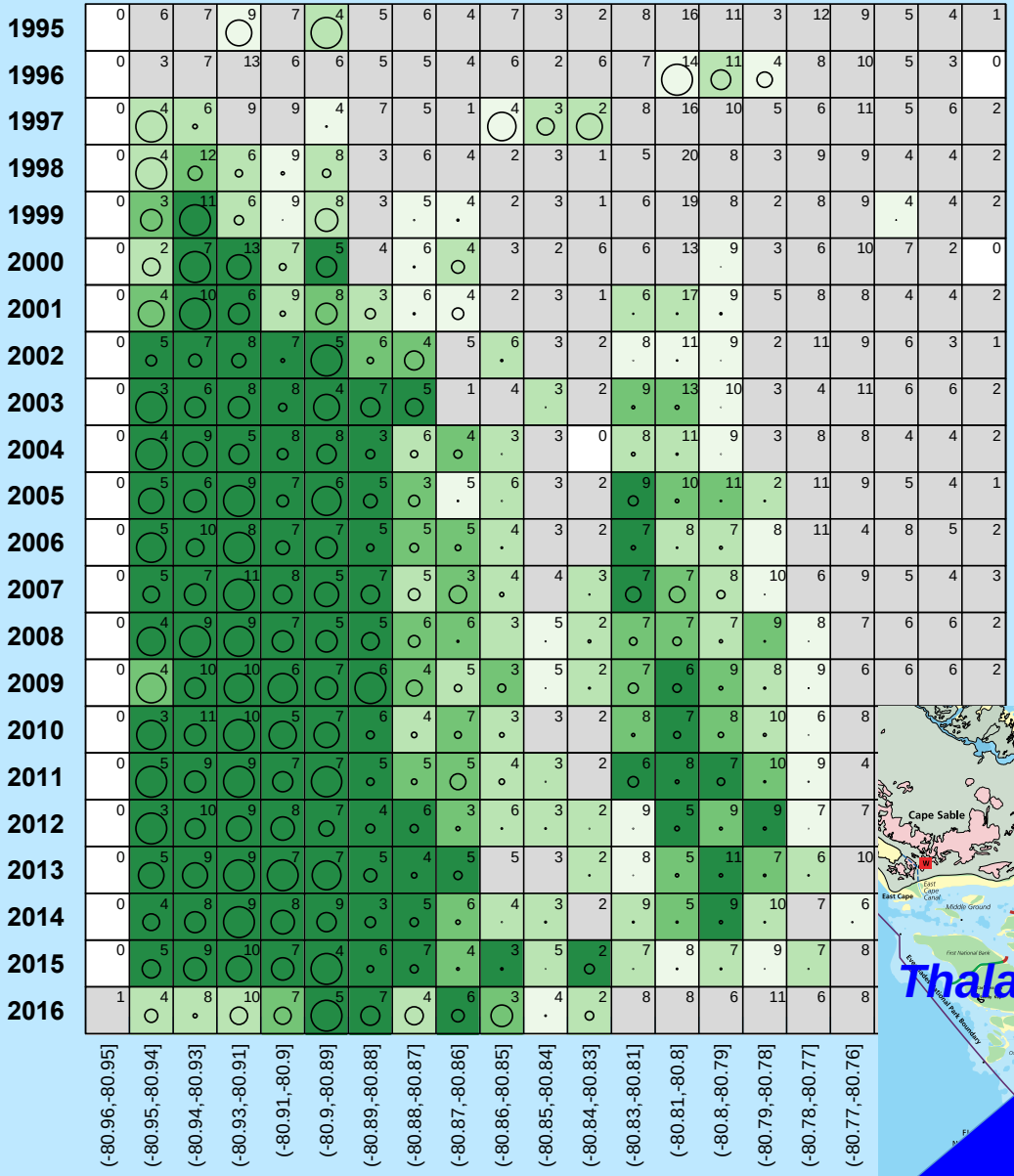

JON
RAN
RKB
WHP
Standing Crop (g m-2)
0
100
200
300
400
1984
1985
1986
1987
1988
1989
1990
1991
1992
1993
1994
1995
Year

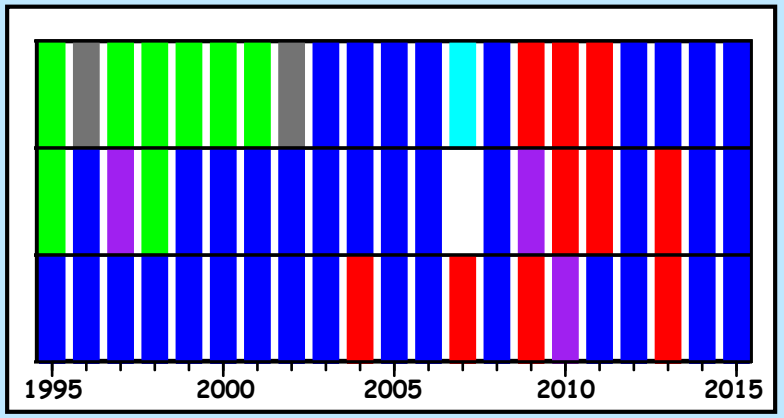

JON
RAN
RKB
WHP
Standing Crop (g m-2)
0
100
200
300
400
1984
1985
1986
1987
1988
1989
1990
1991
1992
1993
1994
1995
Year


JON
RAN
RKB
WHP
Severe
Patchy
Unaffected
NO DATA
Percent Cover (%)
Year
0
50
100
150
1995
2000
2005
2010
2015

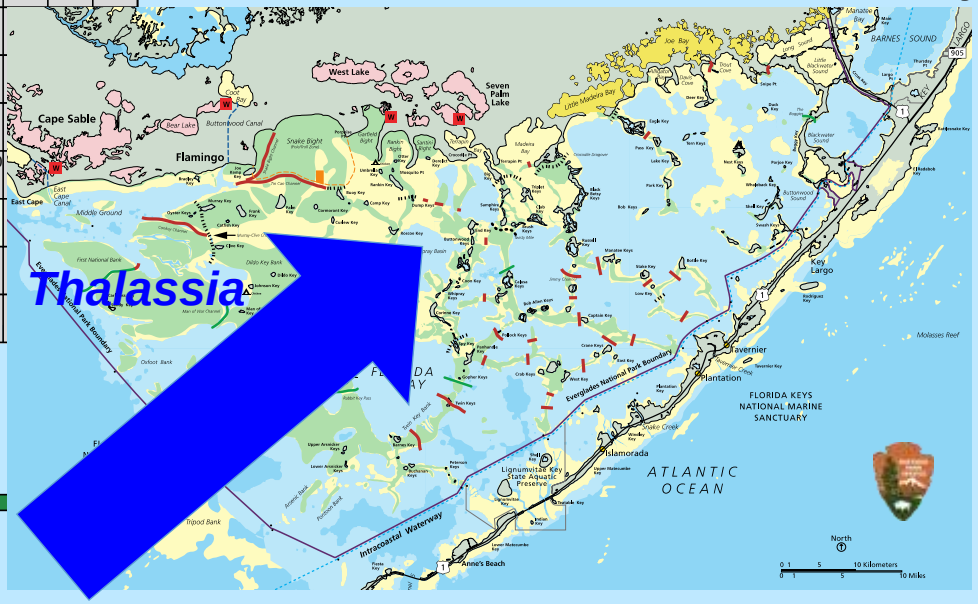

JON
RAN
RKB
WHP
Patchy
Severe
Unaffected
Stress = 0.12
a
b
c
d
e
f

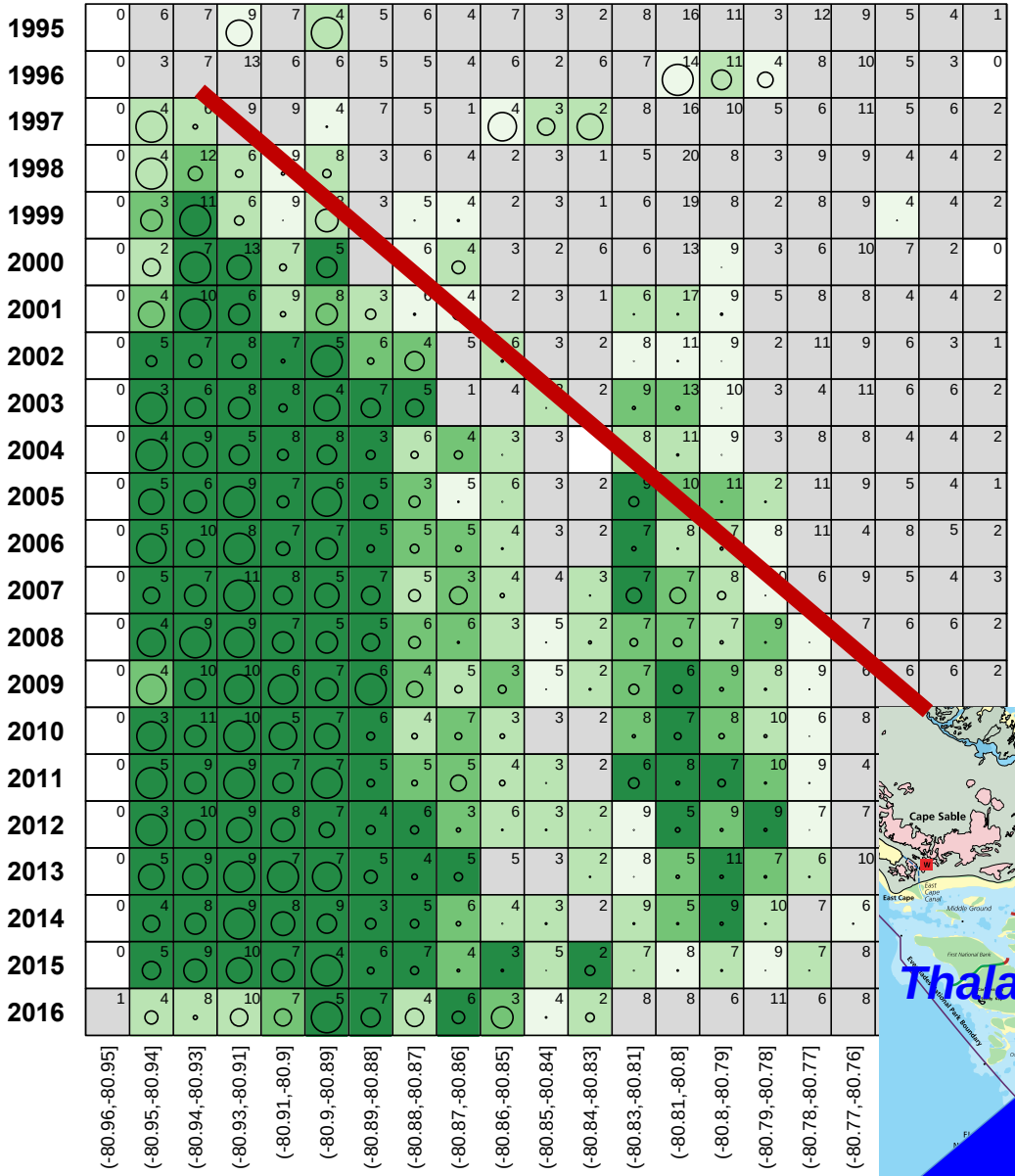

JON
RAN
RKB
WHP
Severe
Patchy
Unaffected
NO DATA
1995
2000
2005
2010
2015

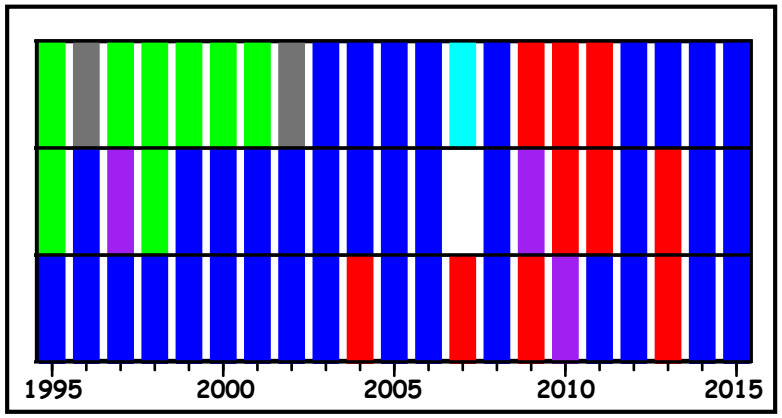




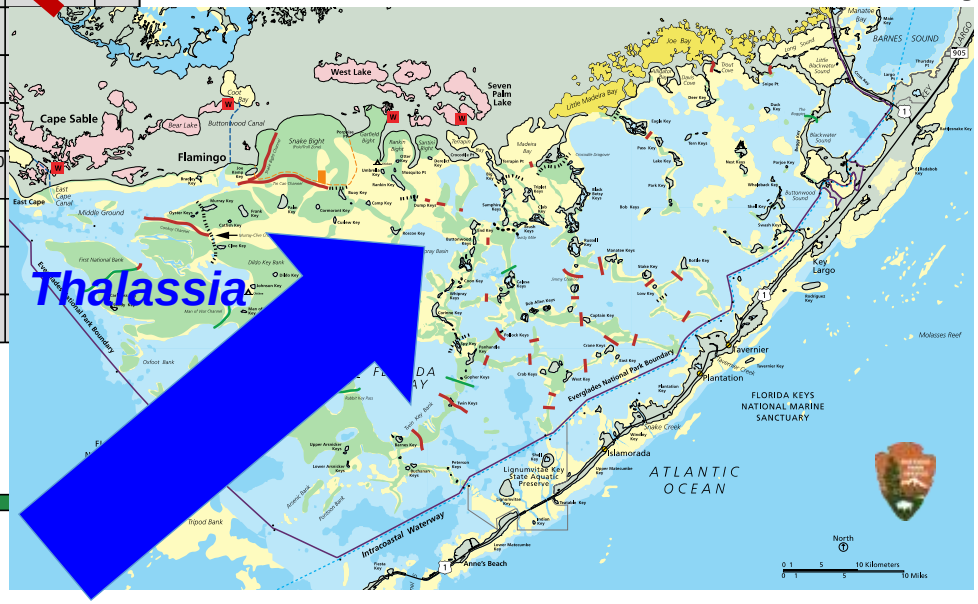
Salinization or GOM-ification of the Bay

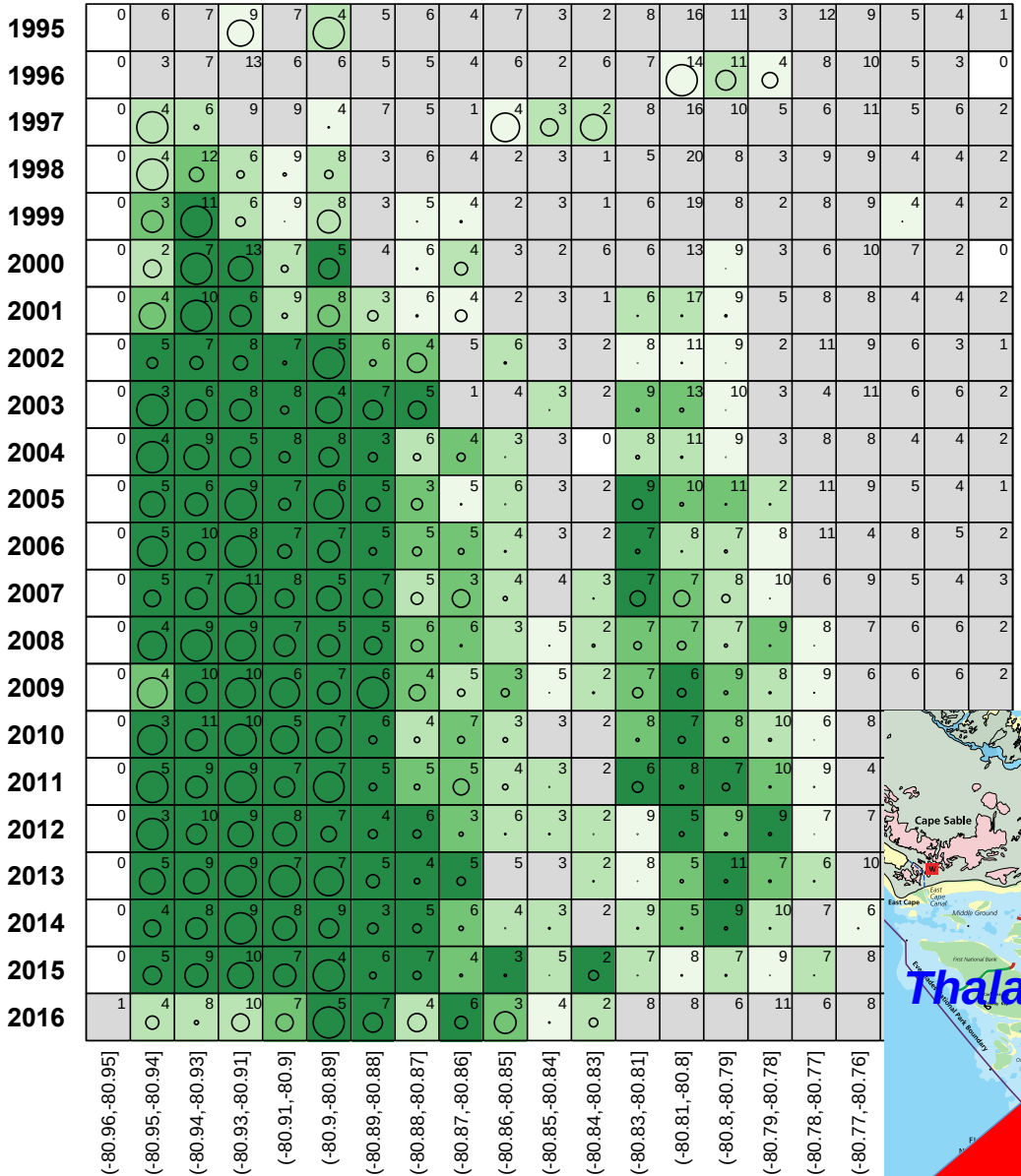


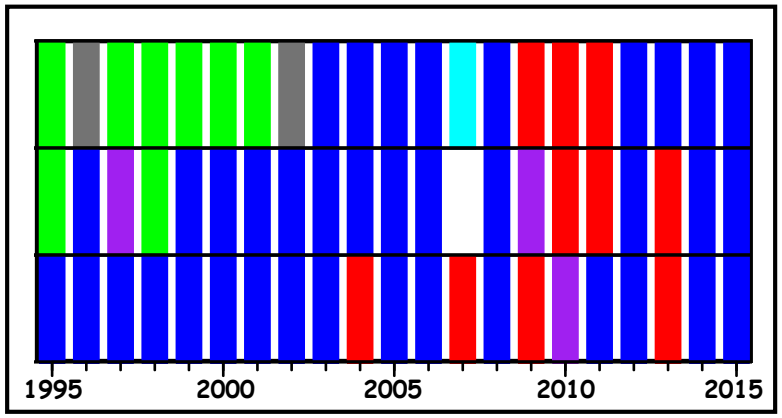




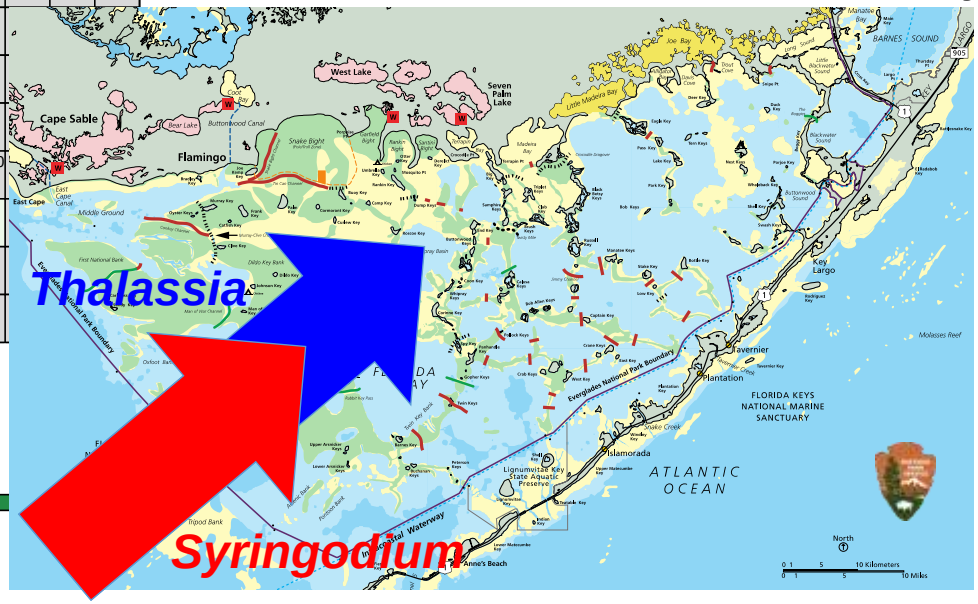
Salinization or GOM-ification of the Bay







Salinization or GOM-ification of the Bay



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