

Canada West Coast Stocks

v4.25 (Dec-14-2017)

1. Big skate West Coast Vancouver Island [BIGSKA3CD]
2. Big skate Strait of Georgia [BIGSKA4B]
3. Big skate Queen Charlotte Sound [BIGSKA5AB]
4. Big skate Hecate Strait [BIGSKA5CDE]
5. Bocaccio British Columbia Waters [BOCACCBW]
6. Canary rockfish West Coast of Vancouver Island and Strait of Georgia and Queen Charlotte Islands [CROCKWCVANISOGQCI]
7. English sole Hecate Strait [ESOLEHS]
8. Eulachon Pacific Coast of Canada Central Coast DU [EULAPCOASTCCDU]
9. Eulachon Pacific Coast of Canada Fraser River DU [EULAPCOASTFRDU]
10. Eulachon Pacific Coast of Canada Nass / Skeena DU [EULAPCOASTNSDU]
11. Pacific herring Central Coast [HERRCC]
12. Pacific herring Prince Rupert District [HERRPRD]
13. Pacific herring Haida Gwaii [HERRQCI]
14. Pacific herring Strait of Georgia [HERRSOG]
15. Pacific herring West Coast of Vancouver Island [HERRWCVANI]
16. Lingcod Strait of Georgia [LINGCODSOG]
17. Longnose skate West Coast Vancouver Island [LNOSESKA3CD]
18. Longnose Skate Strait of Georgia [LNOSESKA4B]
19. Longnose Skate Queen Charlotte Sound [LNOSESKA5AB]
20. Longnose skate Hecate Strait [LNOSESKA5CDE]
21. Northern shrimp SMA 14 [PANDALSMA14]
22. Northern shrimp SMA 16 [PANDALSMA16]
23. Northern shrimp SMA 18-19 [PANDALSMA18-19]
24. Northern shrimp SMA FR [PANDALSMAFR]
25. Northern shrimp SMA GTSE [PANDALSMAGTSE]
26. Northern shrimp SMA PRD [PANDALSMAPRD]
27. Pacific cod Queen Charlotte Sound [PCOD5AB]
28. Pacific cod Hecate Strait [PCODHS]
29. Pacific cod West Coast of Vancouver Island [PCODWCVANI]
30. Pacific Ocean perch Haida Gwaii [PERCHQCI]
31. Pacific Ocean perch West Coast of Vancouver Island [PERCHWCVANI]
32. Quillback rockfish Pacific Coast of Canada (Inside) [QROCKPCOASTIN]
33. Quillback rockfish Pacific Coast of Canada (Outside) [QROCKPCOASTOUT]
34. Rock sole Queen Charlotte Sound [RSOLE5AB]
35. Rock sole Hecate Strait [RSOLEHSTR]
36. Sablefish Pacific Coast of Canada [SABLEFPCAN]
37. Pacific sardine British Columbia [SARDBC]
38. Sideshripe shrimp SMA GTSE [SSHRIMPSMAGTSE]
39. Sideshripe shrimp SMA PRD [SSHRIMPSMAPRD]
40. Sideshripe shrimp SMA 14 [SSSHRIMPSMA14]
41. Sideshripe shrimp SMA 16 [SSSHRIMPSMA16]
42. Sideshripe shrimp SMA 18-19 [SSSHRIMPSMA18-19]
43. Sideshripe shrimp SMA FR [SSSHRIMPSMAFR]
44. Yelloweye rockfish Pacific Coast of Canada (Inside) [YEYEROCKPCOASTIN]

Big skate West Coast Vancouver Island [BIGSKA3CD]

Metadata	
Scientific Name	Raja binoculata
Current Assess ID	DFO-PAC-BIGSKA3CD-1954-2011-OSGOOD
Area	West Coast of Vancouver Island
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Pacific Region
Asmts in RAM	2011

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2011	36.9		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Big skate West Coast Vancouver Island [BIGSKA3CD]

TB*



SSB*



TN *



F*



ER*



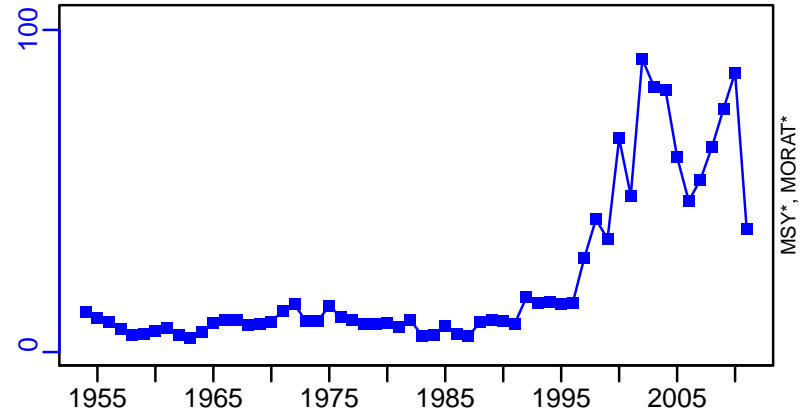
Recruits*



Big skate West Coast Vancouver Island [BIGSKA3CD]

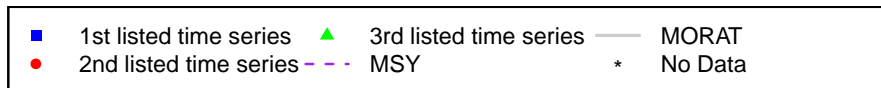
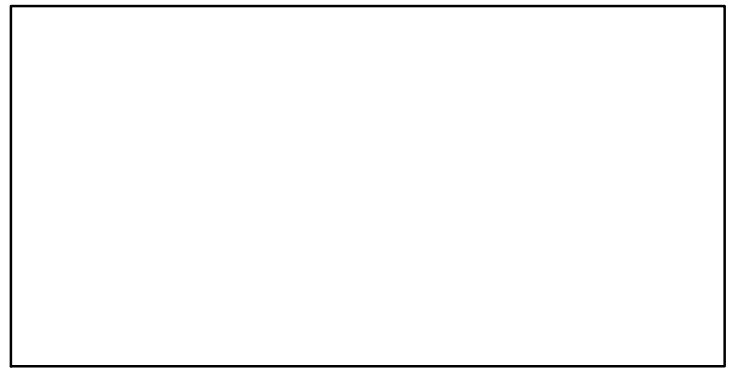
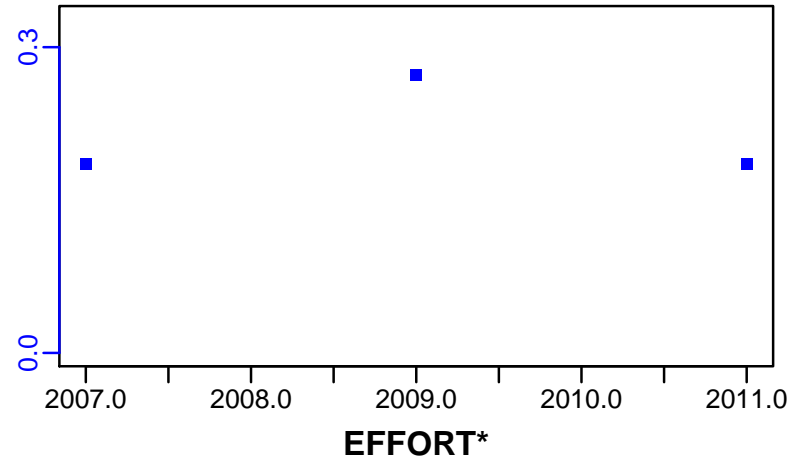
TC-MT, TL*, RecC* (1954-2011-OSGOOD)

TAC*, Cpair*, Cadv*



survB-fishperE02hooks (1954-2011-OSGOOD)

CPUE*



Big skate Strait of Georgia [BIGSKA4B]

Metadata	
Scientific Name	Raja binoculata
Current Assess ID	DFO-PAC-BIGSKA4B-1996-2011-OSGOOD
Area	Straight of Georgia
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Pacific Region
Asmts in RAM	2011

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2011	9.81		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Big skate Strait of Georgia [BIGSKA4B]

TB*



SSB*



TN *



F*



ER*



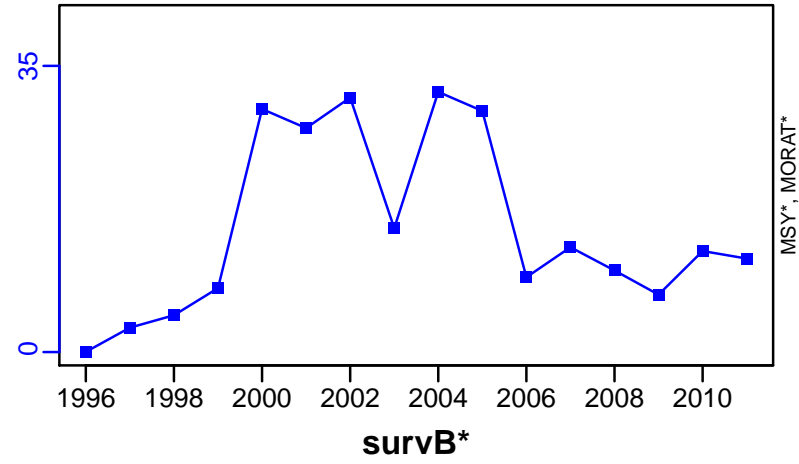
Recruits*



Big skate Strait of Georgia [BIGSKA4B]

TC-MT, TL*, RecC* (1996-2011-OSGOOD)

TAC*, Cpair*, Cadv*



EFFORT*



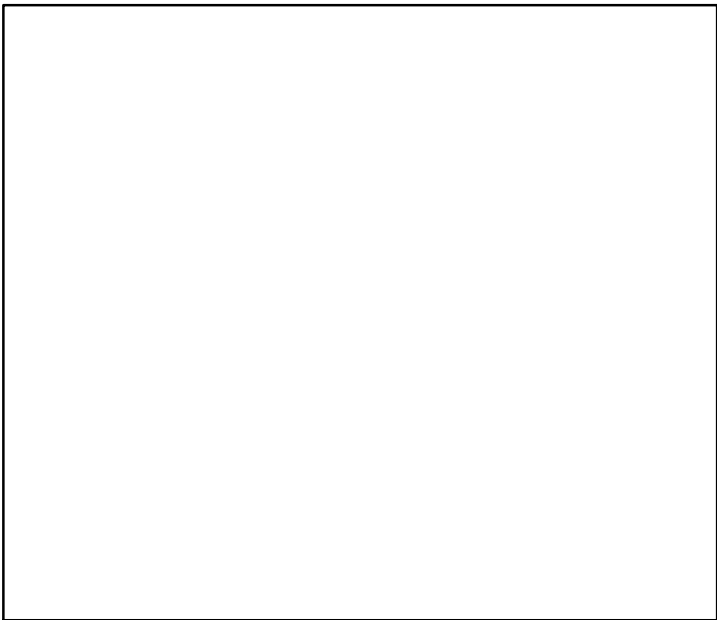
Big skate Queen Charlotte Sound [BIGSKA5AB]

Metadata	
Scientific Name	Raja binoculata
Current Assess ID	DFO-PAC-BIGSKA5AB-1954-2011-OSGOOD
Area	Queen Charlotte Sound
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Pacific Region
Asmts in RAM	2011

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2011	299		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



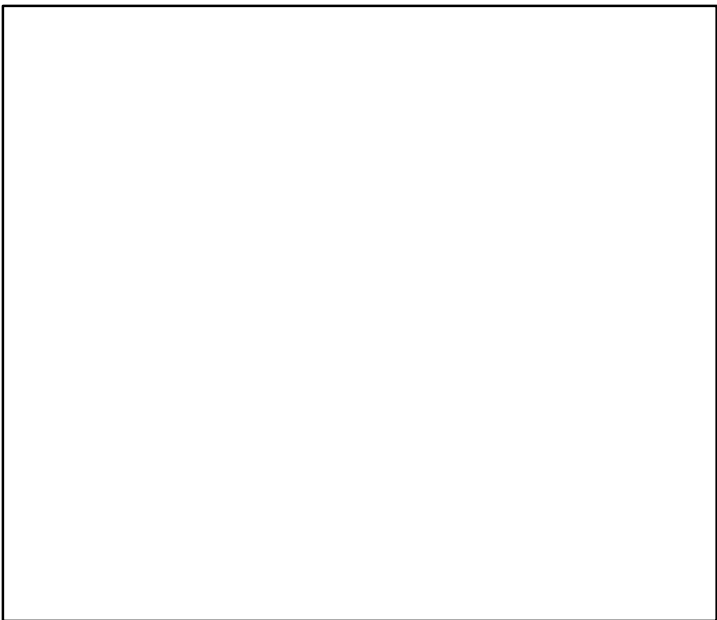
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*

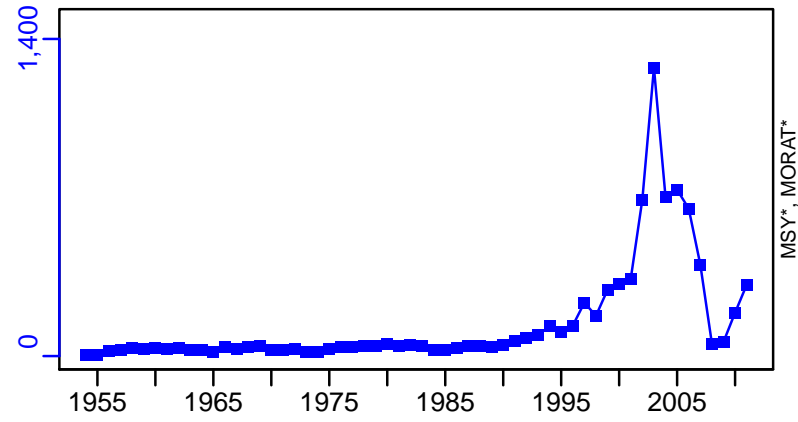


Recruits*



Big skate Queen Charlotte Sound [BIGSKA5AB]

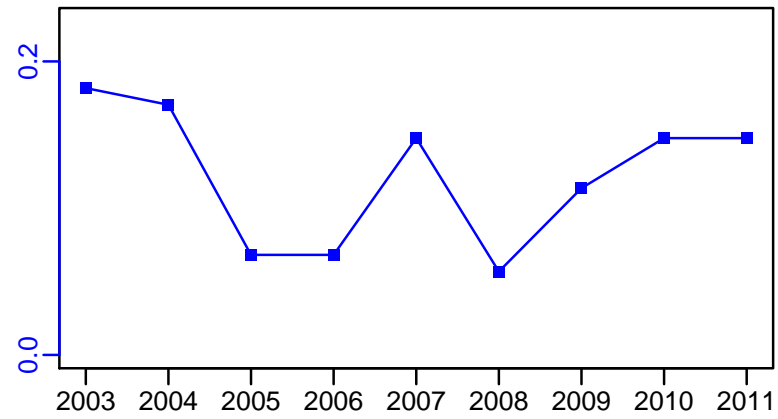
TC-MT, TL*, RecC* (1954-2011-OSGOOD)



TAC*, Cpair*, Cadv*



survB-fishperE02hooks (1954-2011-OSGOOD)



CPUE*



EFFORT*



■ 1st listed time series ▲ 3rd listed time series — MORAT
 ● 2nd listed time series - - - MSY * No Data

Big skate Hecate Strait [BIGSKA5CDE]

Metadata	
Scientific Name	Raja binoculata
Current Assess ID	DFO-PAC-BIGSKA5CDE-1954-2011-OSGOOD
Area	Hecate Strait
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Pacific Region
Asmts in RAM	2011

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2011	351
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2011	628		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Big skate Hecate Strait [BIGSKA5CDE]

TB*



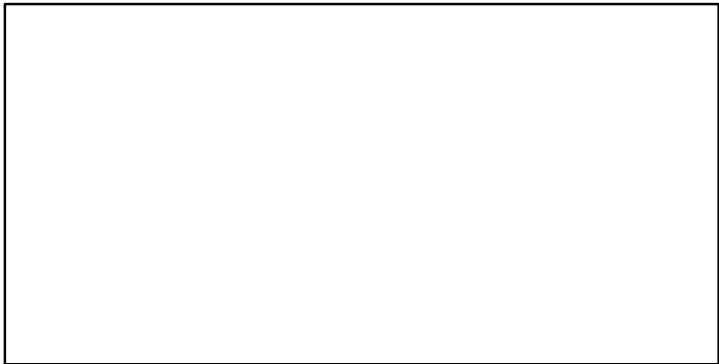
SSB*



TN *



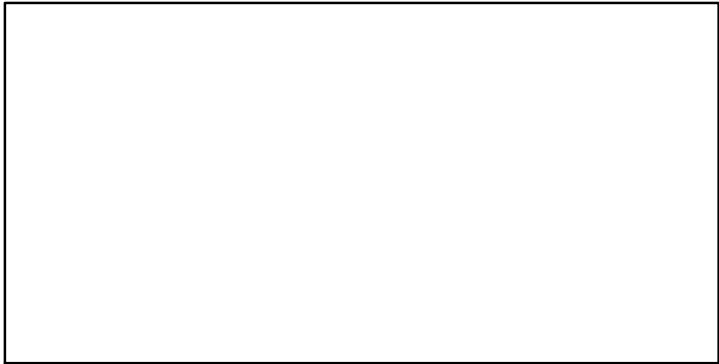
F*



ER*

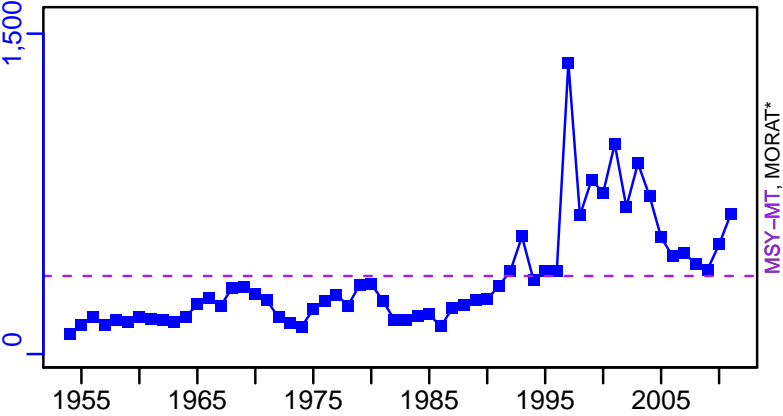


Recruits*



Big skate Hecate Strait [BIGSKA5CDE]

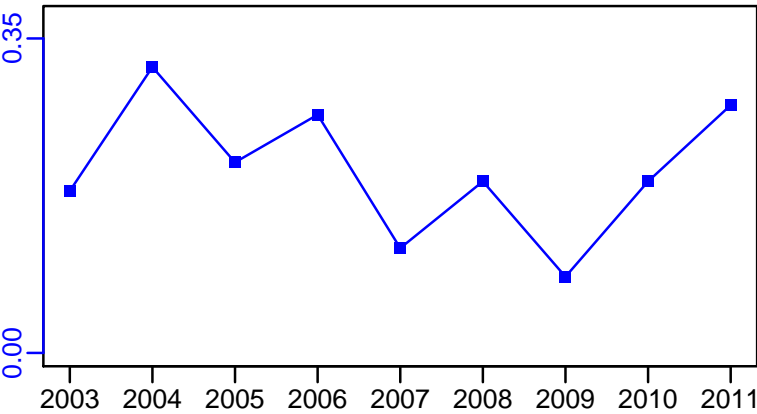
TC-MT, TL*, RecC* (1954-2011-OSGOOD)



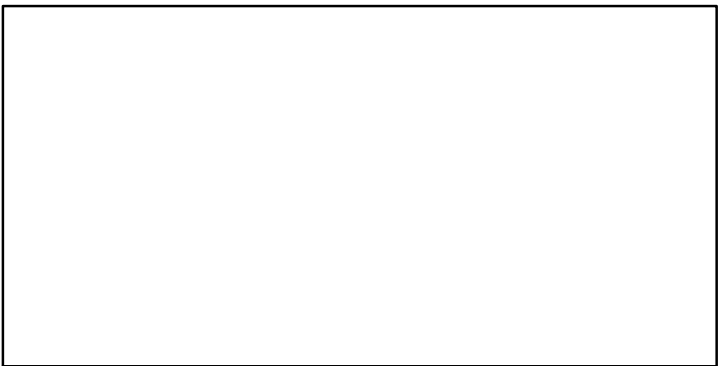
TAC*, Cpair*, Cadv*



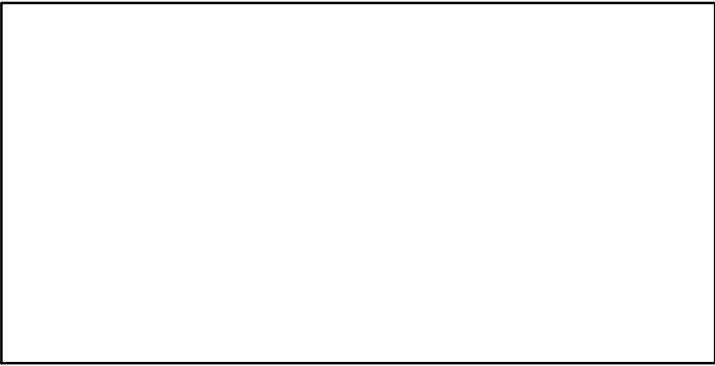
survB-fishperE02hooks (1954-2011-OSGOOD)



CPUE*



EFFORT*

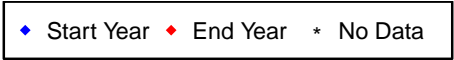
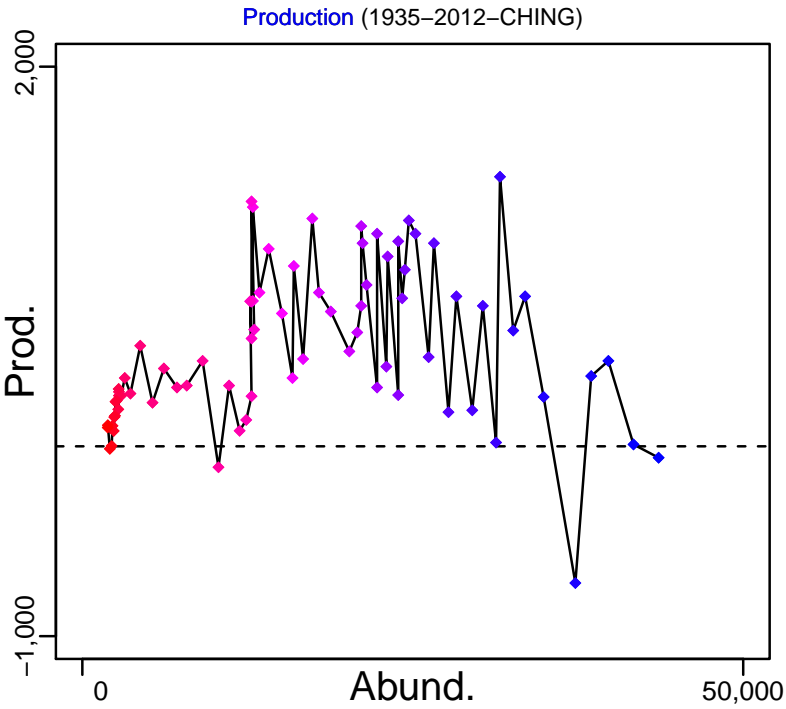


Bocaccio British Columbia Waters [BOCACCBCW]

Metadata	
Scientific Name	Sebastes paucispinis
Current Assess ID	DFO-PAC-BOCACCBCW-1935-2012-CHING
Area	British Columbia Waters
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Pacific Region
Asmts in RAM	2012

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2012	26,165
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

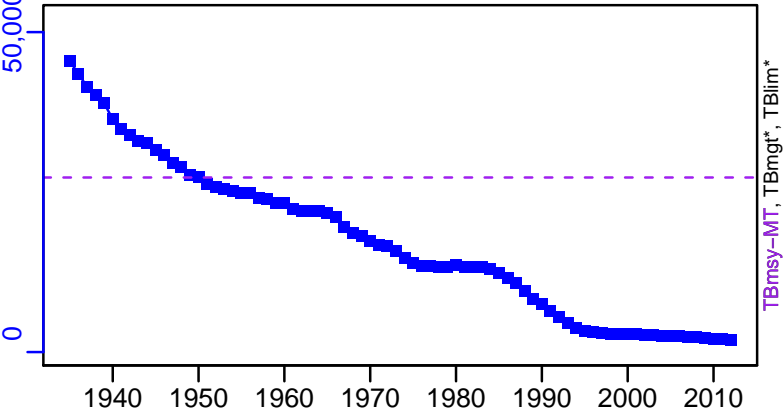
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2012	1880	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2012	0	-	-
TC	TC-MT	2012	138		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2012	0.07		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



Bocaccio British Columbia Waters [BOCACCBCW]

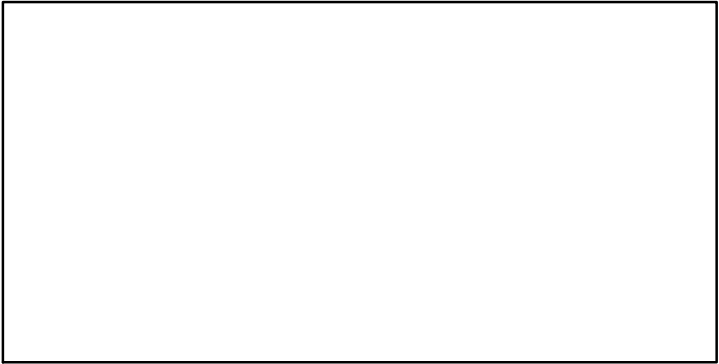
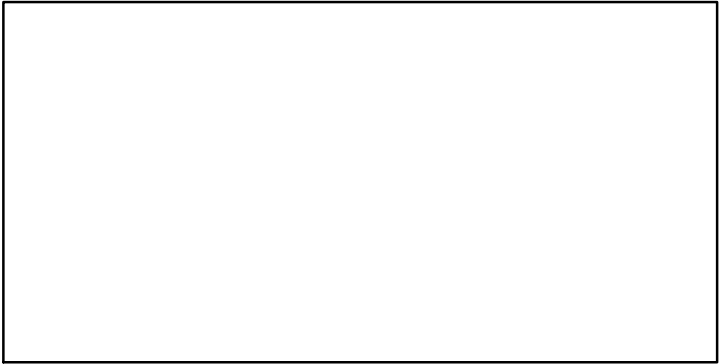
TB-MT (1935-2012-CHING)

SSB*



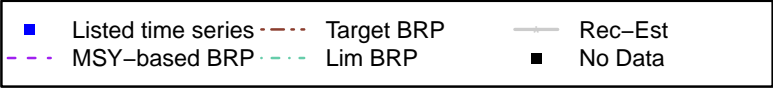
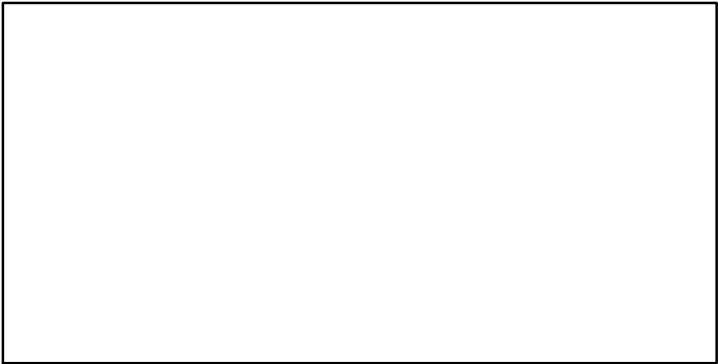
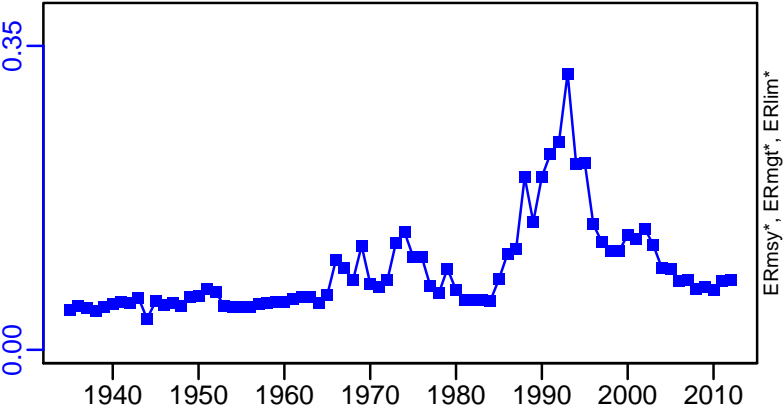
TN *

F*



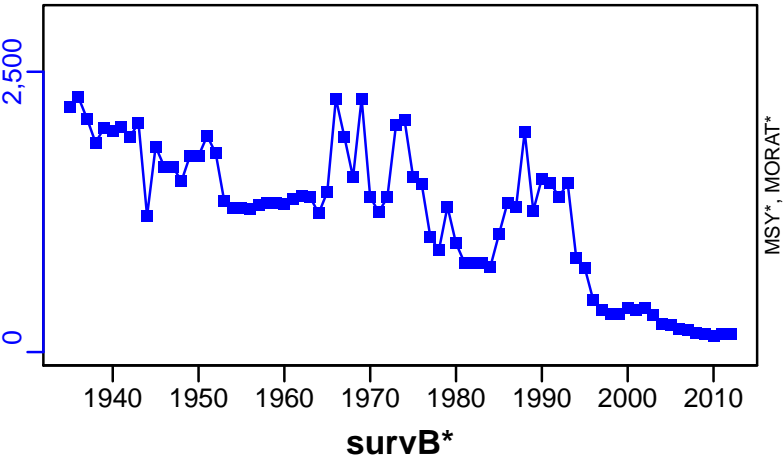
ER-calc-ratio (1935-2012-CHING)

Recruits*



Bocaccio British Columbia Waters [BOCACCBW]

TC-MT, TL*, RecC* (1935-2012-CHING)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Canary rockfish West Coast of Vancouver Island and Straight of Georgia and Queen Charlotte Islands [CROCKWCVANISOGQCI]

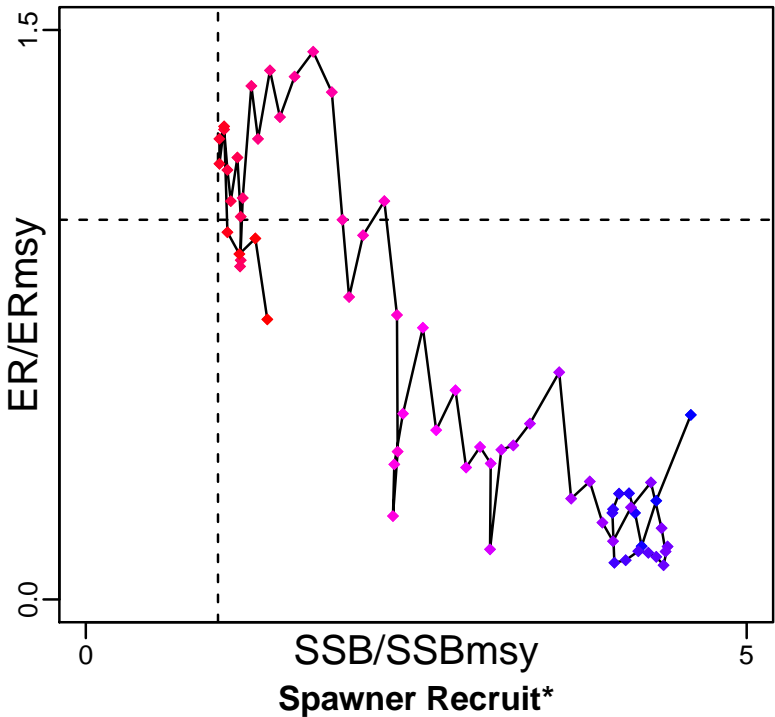
Metadata	
Scientific Name	Sebastes pinniger
Current Assess ID	DFO-CROCKWCVANISOGQCI-1945-2009-STANTON
Area	West Coast of Vancouver Island and Straight of Georgia and Queen Charlotte Islands
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans
Asmts in RAM	2009

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2009	1988
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2009	0.12
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2009	714
M	M-1/yr	2009	0.06
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

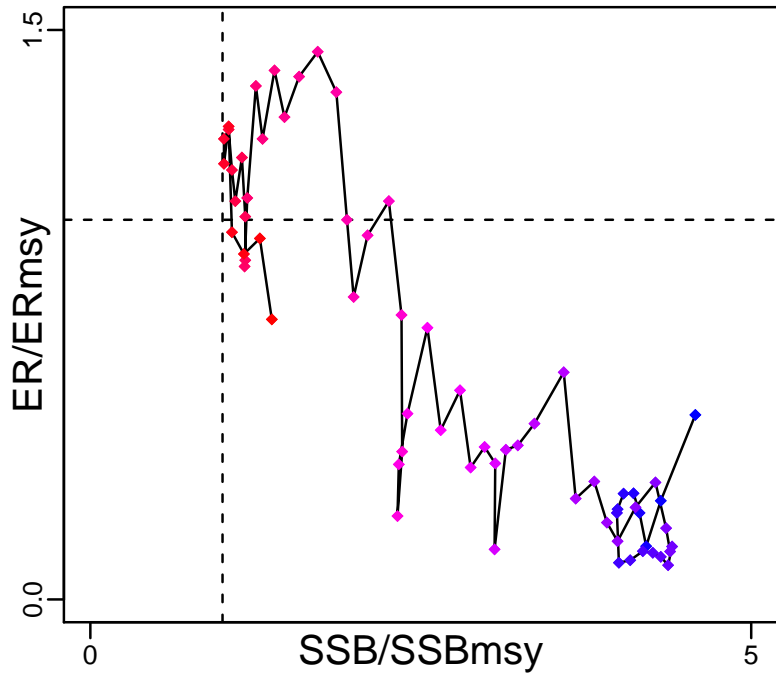
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2009	8890	-	14
SSB	SSB-MT	2009	2730	Females	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2009	0	-	-
TC	TC-MT	2009	800		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2009	1.37		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2009	0.74		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Canary rockfish West Coast of Vancouver Island and Strait of Georgia and Queen Charlotte Islands [CROCKWCVANISOGQCI]

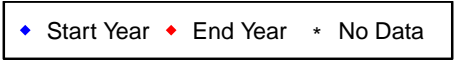
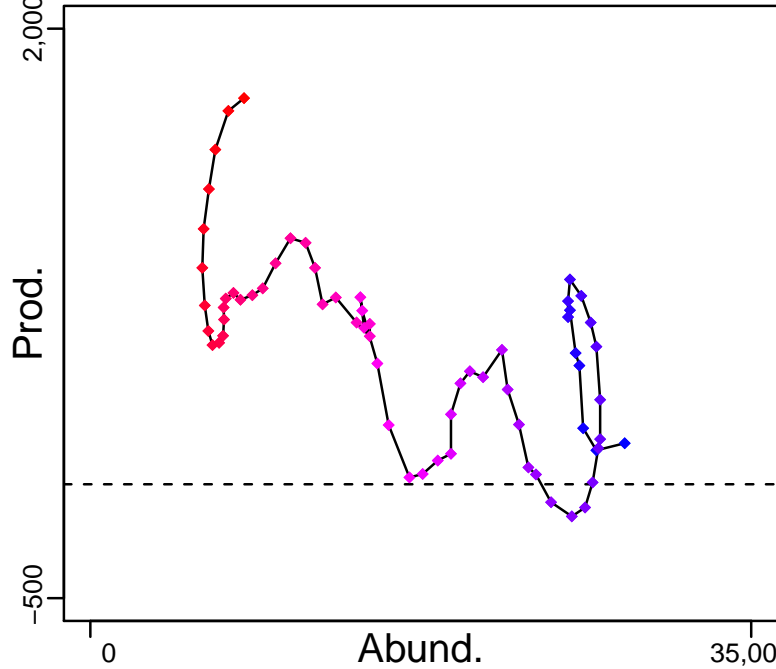
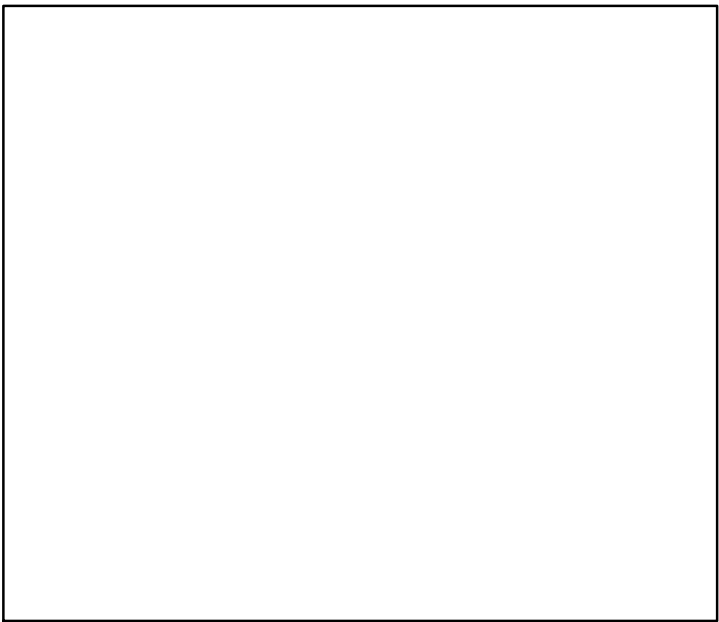
Kobe MSYpref (1945–2009–STANTON)



Kobe MGTpref (1945–2009–STANTON)

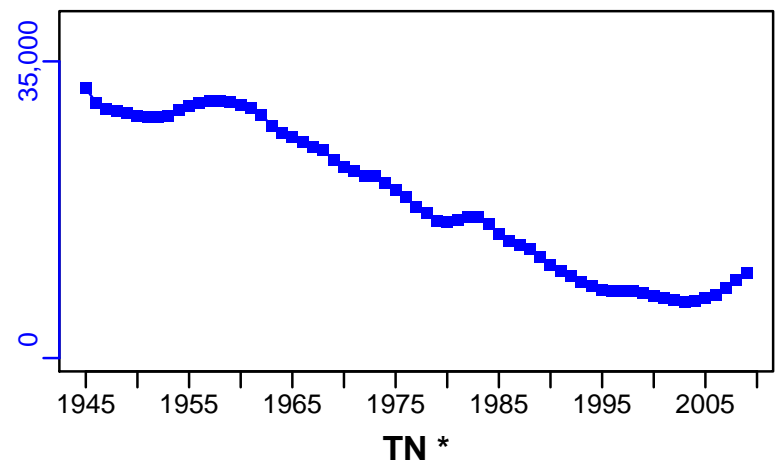


Production (1945–2009–STANTON)

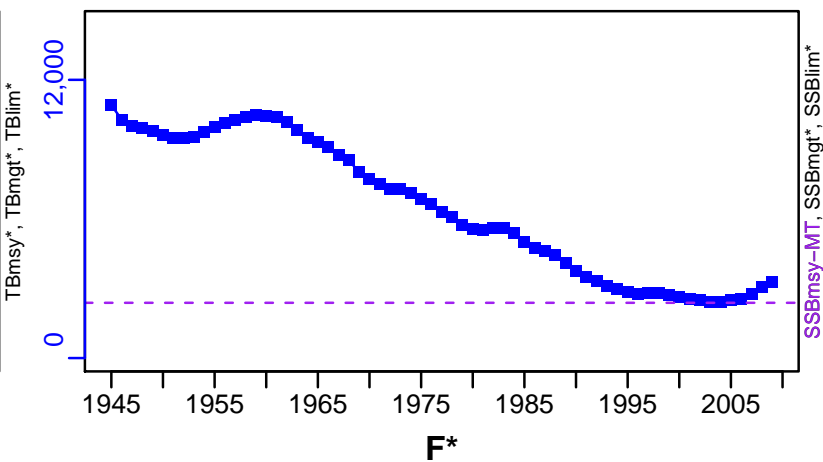


Canary rockfish West Coast of Vancouver Island and Strait of Georgia and Queen Charlotte Islands [CROCKWCVANISOGQCI]

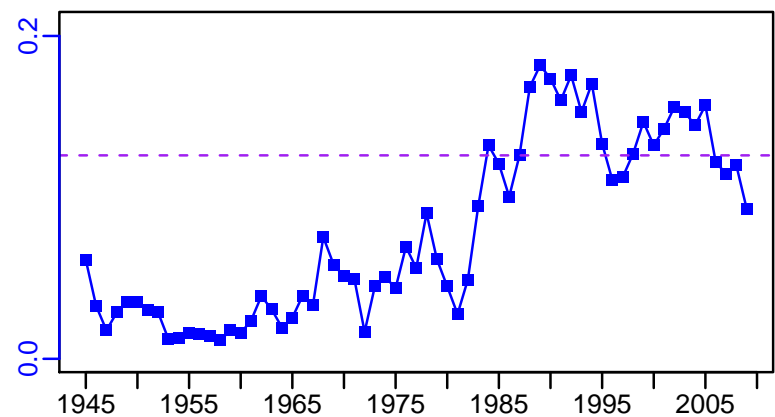
TB-MT (1945-2009-STANTON)



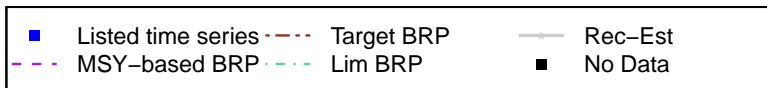
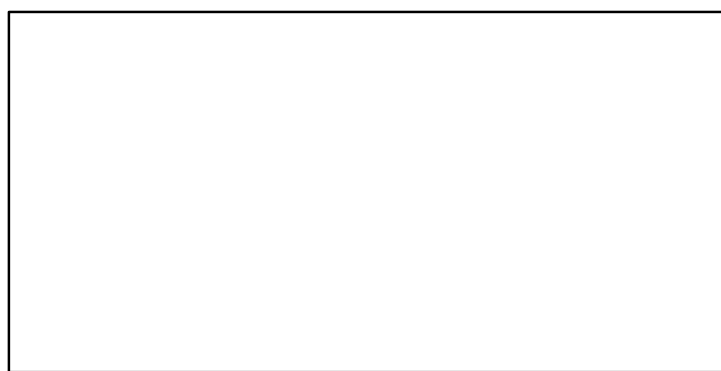
SSB-MT (1945-2009-STANTON)



ER-ratio (1945-2009-STANTON)

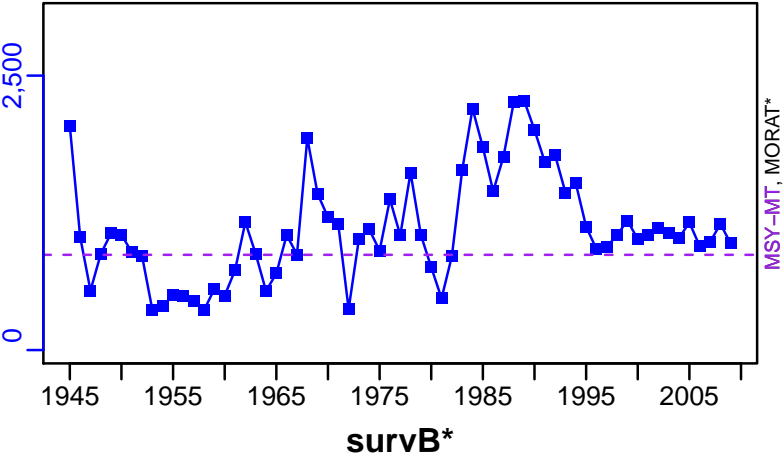


Recruits*



Canary rockfish West Coast of Vancouver Island and Strait of Georgia and Queen Charlotte Islands [CROCKWCVANISOGQCI]

TC-MT, TL*, RecC* (1945-2009-STANTON)



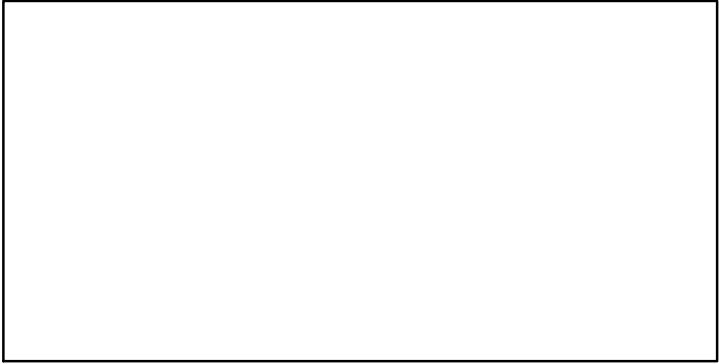
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



English sole Hecate Strait [ESOLEHS]

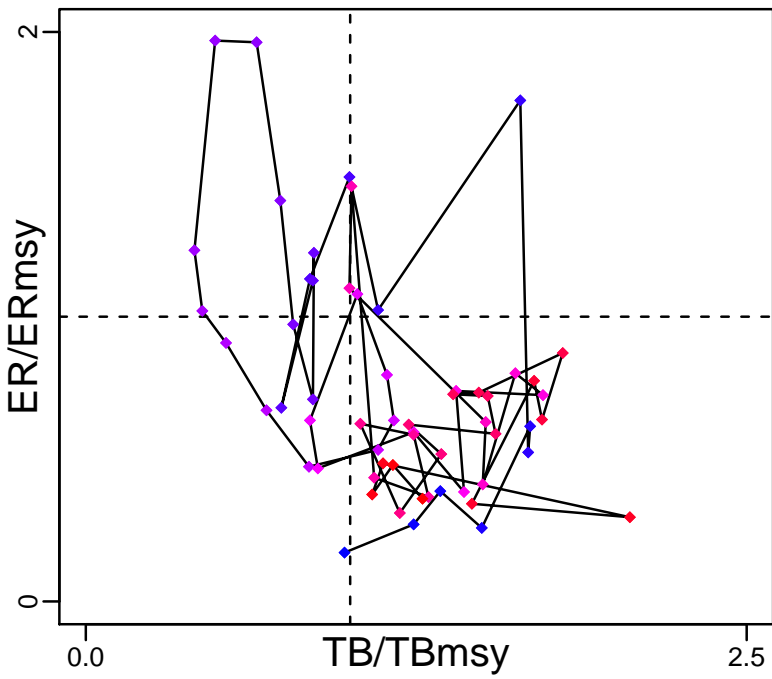
Metadata	
Scientific Name	Parophrys vetulus
Current Assess ID	DFO-PAC-ESOLEHS-1944-2001-COLLIE
Area	Hecate Strait
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Pacific Region
Asmts in RAM	2001

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2001	2677
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-est-ratio	2001	0.34
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2001	905
M	M-1/yr	2001	0.2
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

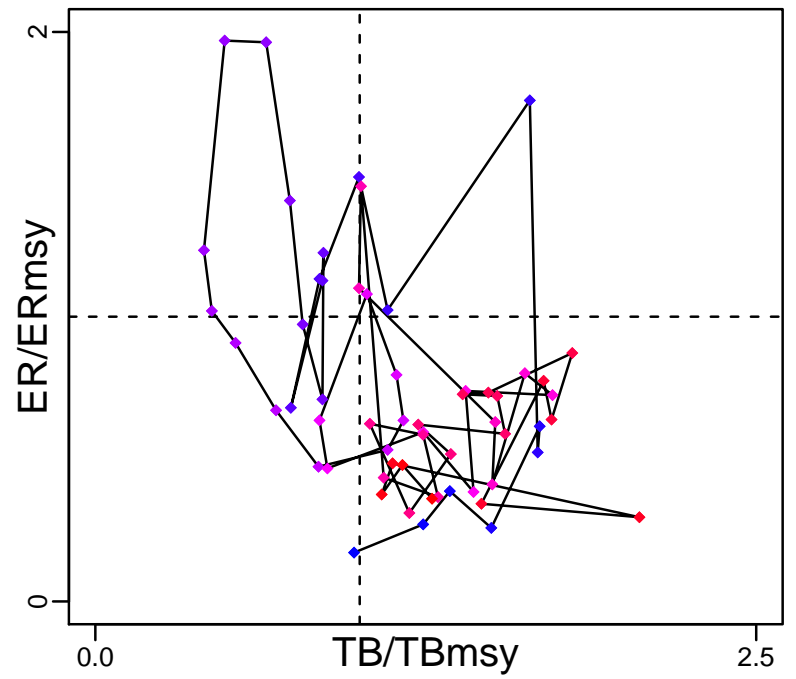
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2001	3410	-	4+
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	R-E00	2001	2,040,000	-	4
F	F-1/yr	2001	0	-	-
ER	ER-ratio	2001	0	-	-
TC	-	-	-		
TL	TL-MT	2001	414		
TB/TBmsy	TB-MT/TBmsy-est-MT	2001	1.27		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-est-ratio	2001	0.36		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

English sole Hecate Strait [ESOLEHS]

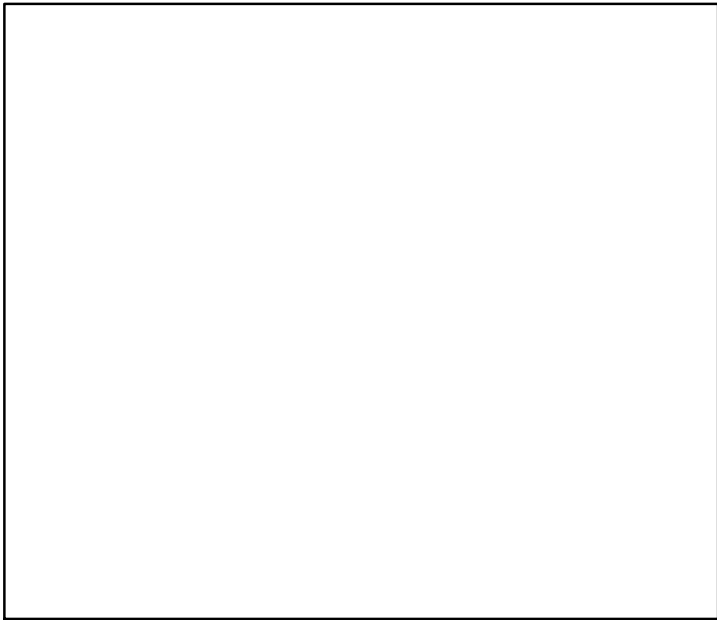
Kobe MSYpref (1944–2001–COLLIE)



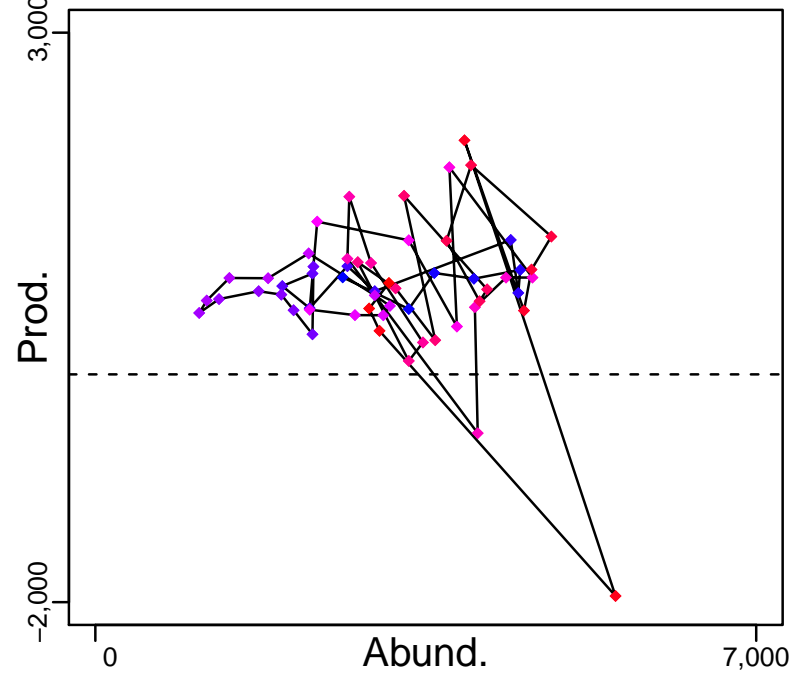
Kobe MGTpref (1944–2001–COLLIE)



Spawner Recruit*



Production (1944–2001–COLLIE)

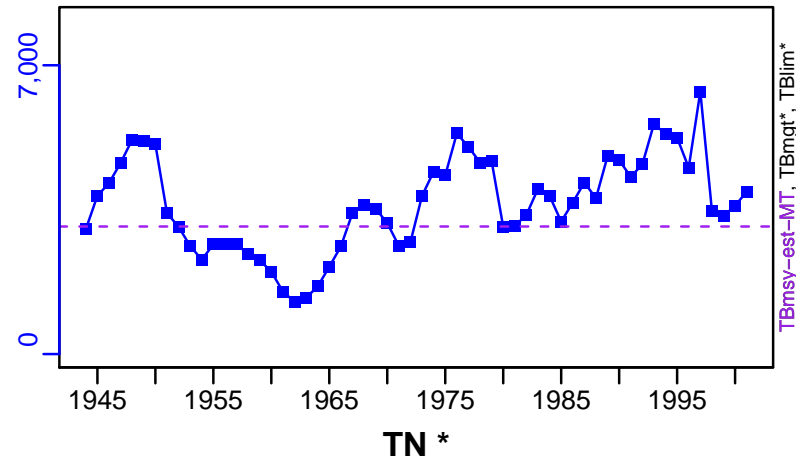


◆ Start Year ◆ End Year * No Data

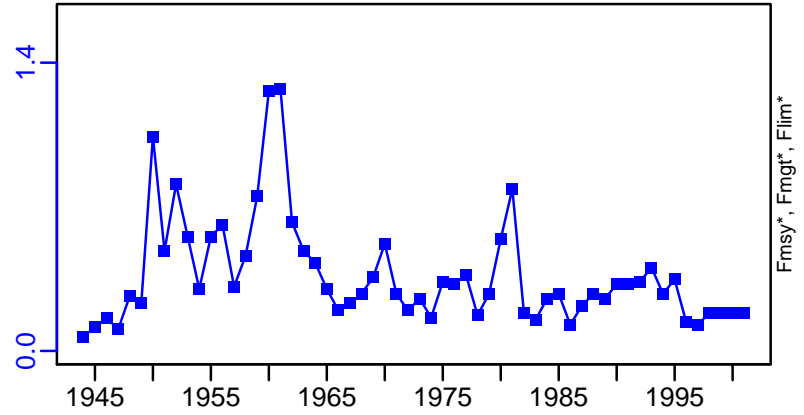
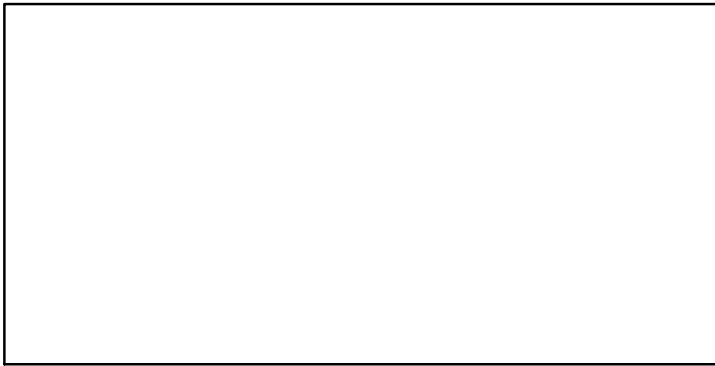
English sole Hecate Strait [ESOLEHS]

TB-MT (1944-2001-COLLIE)

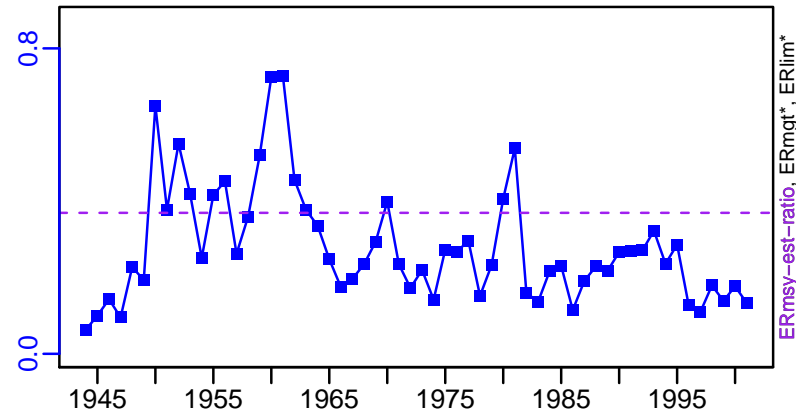
SSB*



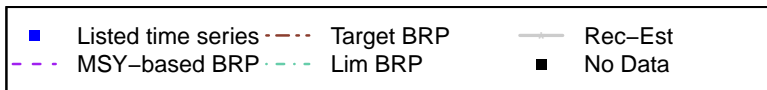
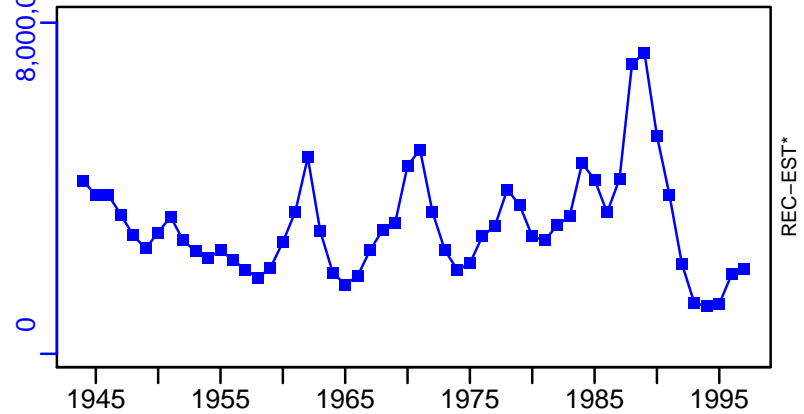
F-1/yr (1944-2001-COLLIE)



ER-ratio (1944-2001-COLLIE)



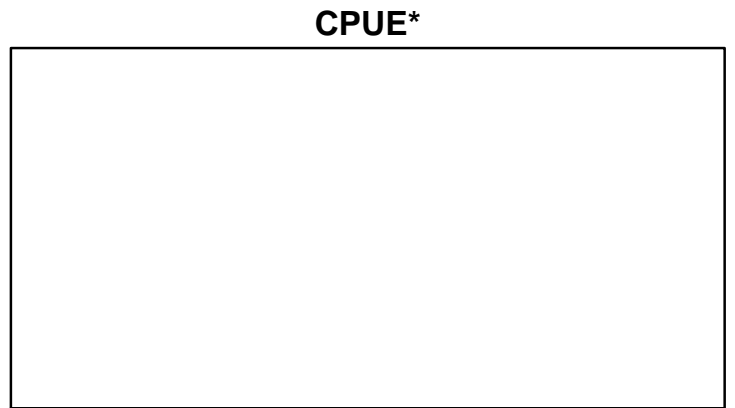
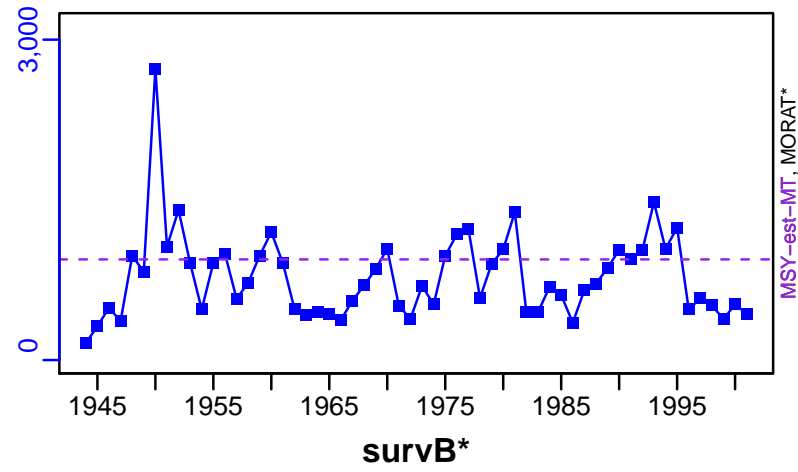
R-E00 (1944-2001-COLLIE)



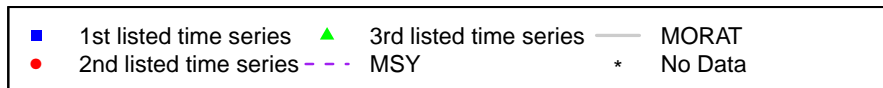
English sole Hecate Strait [ESOLEHS]

TL-MT, TC*, RecC* (1944-2001-COLLIE)

TAC*, Cpair*, Cadv*



EFFORT*



Eulachon Pacific Coast of Canada Central Coast DU [EULAPCOASTCCDU]

Metadata	
Scientific Name	Thaleichthys pacificus
Current Assess ID	DFO-EULAPCOASTCCDU-1951-2012-WATSON
Area	Pacific Coast of Canada Central Coast Designatable Unit
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans
Asmts in RAM	2012

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2012	76	-	-
SSB	-	-	-	-	-
TN	TN-index	2012	14	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*

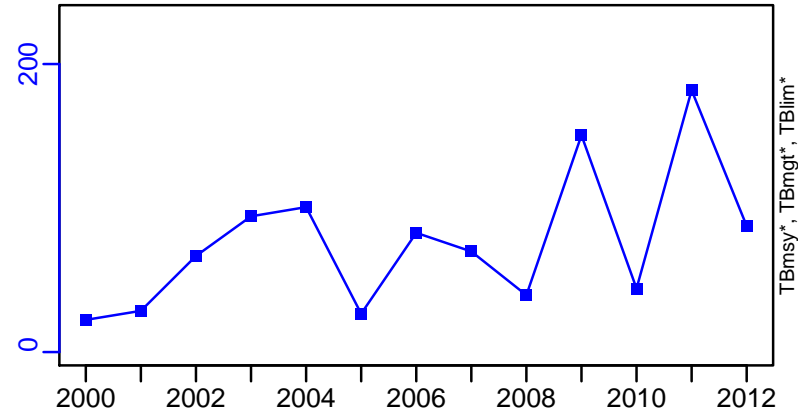


◆ Start Year ◆ End Year * No Data

Eulachon Pacific Coast of Canada Central Coast DU [EULAPCOASTCCDU]

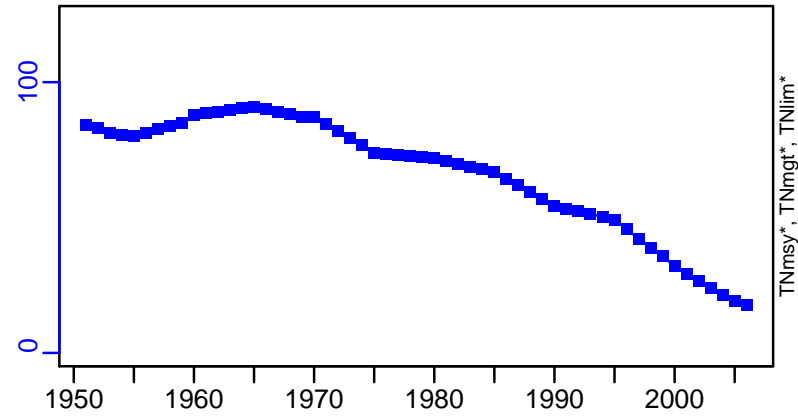
TB-MT (1951-2012-WATSON)

SSB*



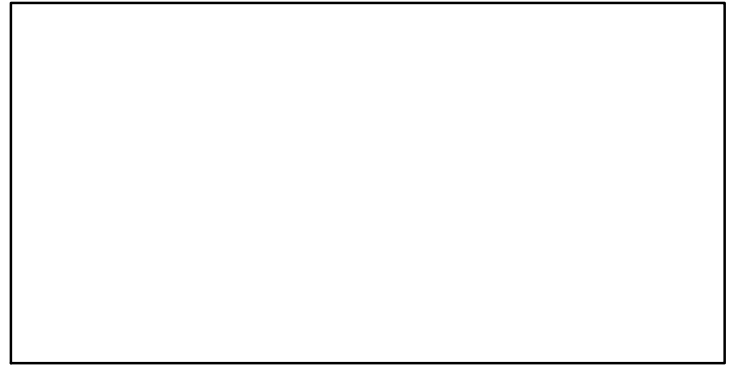
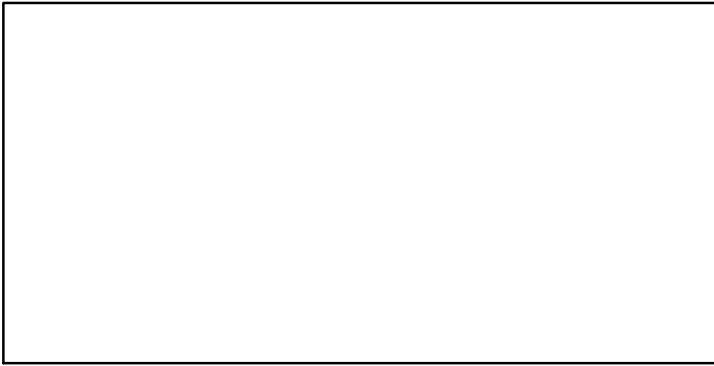
TN-index (1951-2012-WATSON)

F*



ER*

Recruits*



TC*, TL*, RecC*



TAC*, Cpair*, Cadv*



survB*



CPUE*



EFFORT*



■ 1st listed time series

● 2nd listed time series

▲ 3rd listed time series

- - MSY

— MORAT

* No Data

Eulachon Pacific Coast of Canada Fraser River DU [EULAPCOASTFRDU]

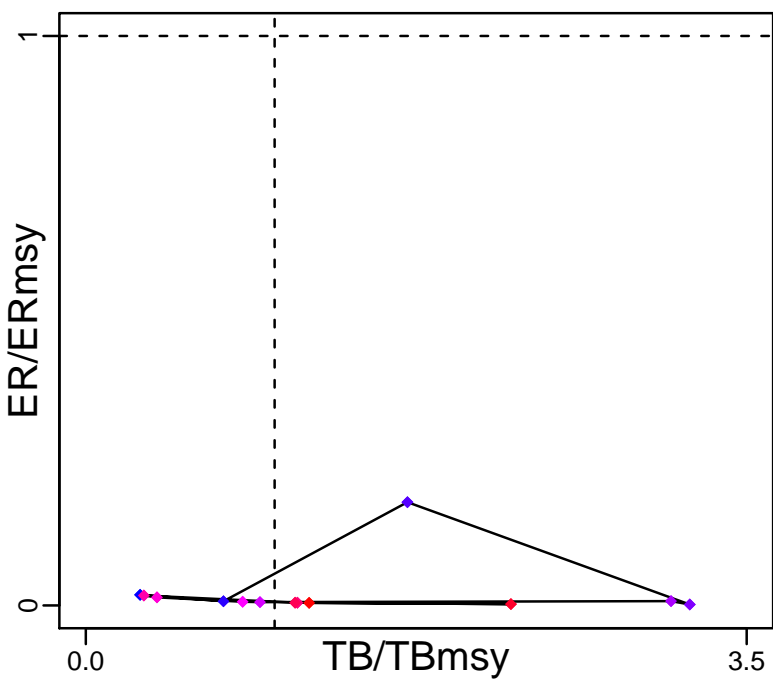
Metadata	
Scientific Name	Thaleichthys pacificus
Current Assess ID	DFO-EULAPCOASTFRDU-1900-2012-WATSON
Area	Pacific Coast of Canada Fraser River Designatable Unit
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans
Asmts in RAM	2012

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2012	40
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-est-ratio	2012	0.46
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2012	112
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2012	48	-	-
SSB	-	-	-	-	-
TN	TN-index	2012	6	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2012	0	-	-
TC	TC-MT	2012	0.1	-	-
TL	-	-	-	-	-
TB/TBmsy	TB-MT/TBmsy-est-MT	2012	1.18	-	-
SSB/SSBmsy	-	-	-	-	-
F/Fmsy	-	-	-	-	-
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2012	0	-	-
TB/TBmgt	-	-	-	-	-
SSB/SSBmgt	-	-	-	-	-
F/Fmgt	-	-	-	-	-
ER/ERmgt	-	-	-	-	-

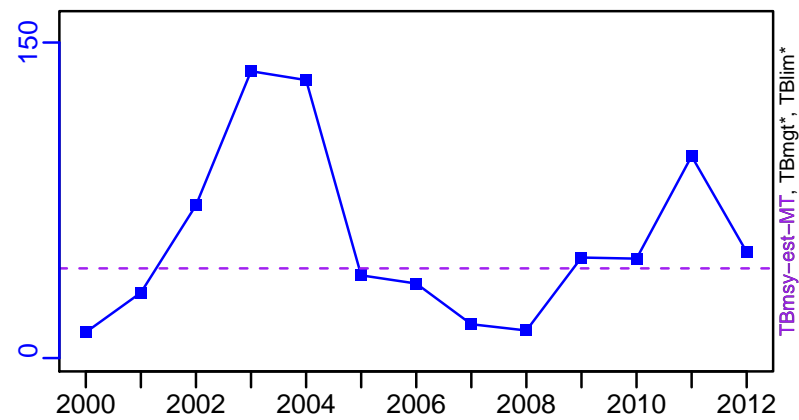
Eulachon Pacific Coast of Canada Fraser River DU [EULAPCOASTFRDU]

Kobe MSY_{pref} (1900–2012–WATSON)

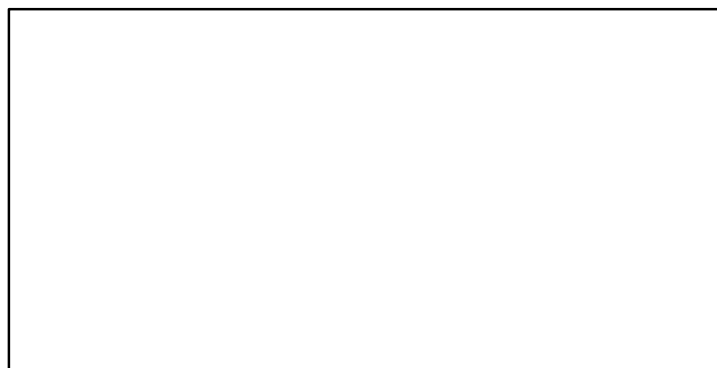


Eulachon Pacific Coast of Canada Fraser River DU [EULAPCOASTFRDU]

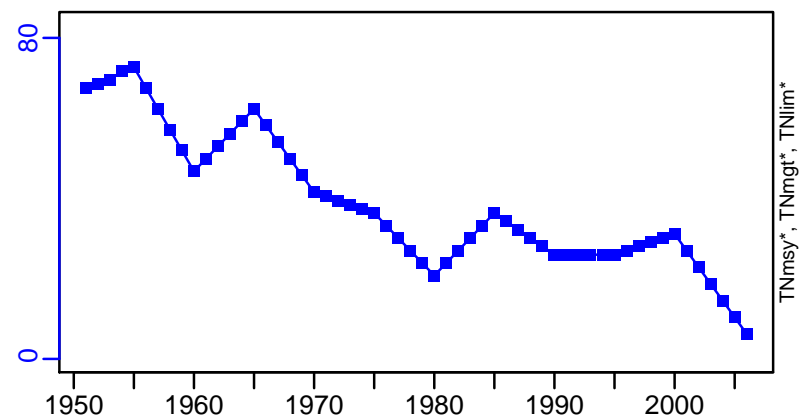
TB-MT (1900-2012-WATSON)



SSB*



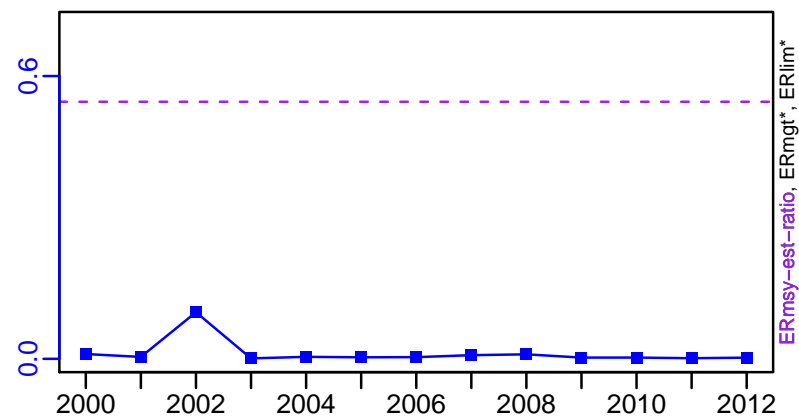
TN-index (1900-2012-WATSON)



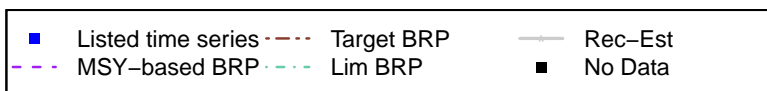
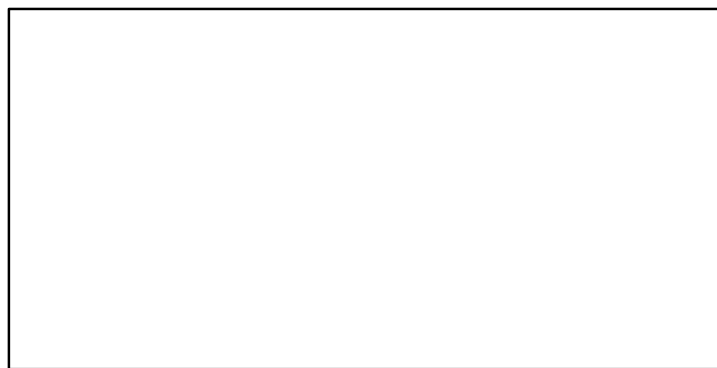
F*



ER-calc-ratio (1900-2012-WATSON)



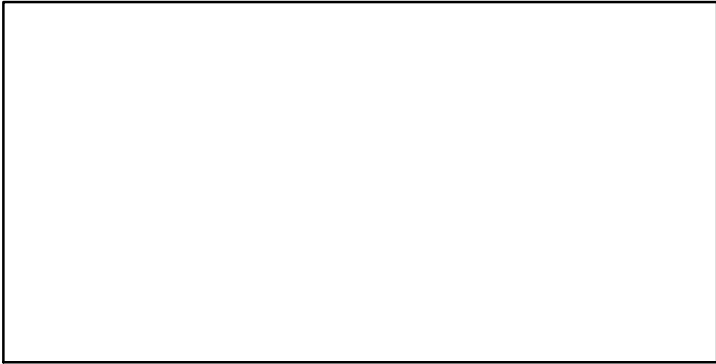
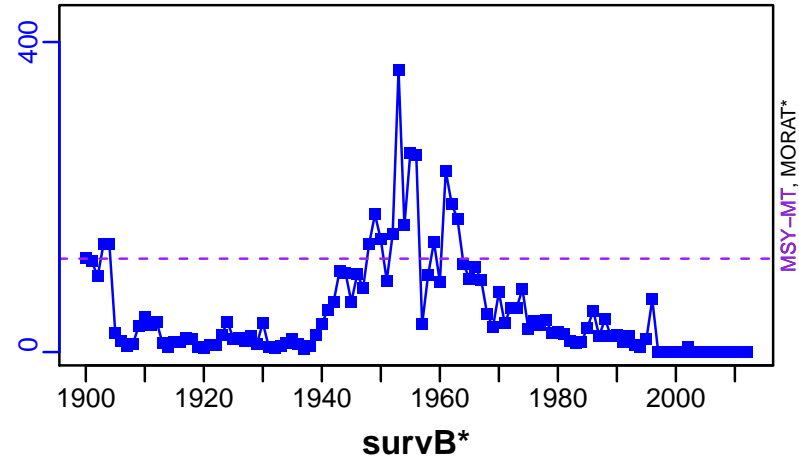
Recruits*



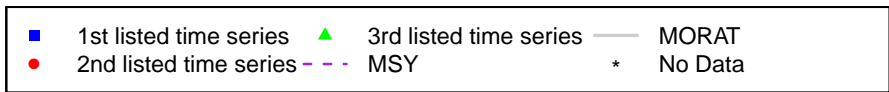
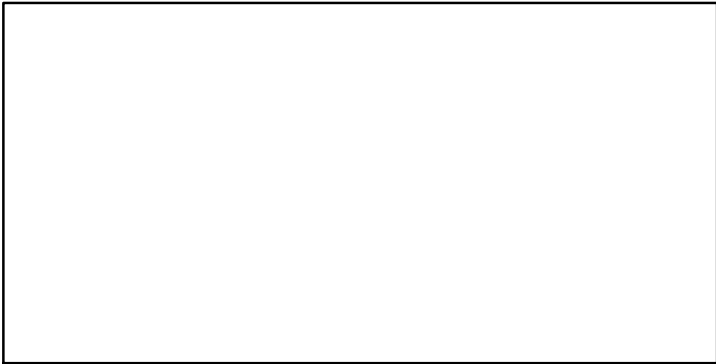
Eulachon Pacific Coast of Canada Fraser River DU [EULAPCOASTFRDU]

TC-MT, TL*, RecC* (1900-2012-WATSON)

TAC*, Cpair*, Cadv*



EFFORT*



Eulachon Pacific Coast of Canada Nass / Skeena DU [EULAPCOASTNSDU]

Metadata	
Scientific Name	Thaleichthys pacificus
Current Assess ID	DFO-EULAPCOASTNSDU-1951-2012-WATSON
Area	Pacific Coast of Canada Nass / Skeena Designatable Unit
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans
Asmts in RAM	2012

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2012	71	-	-
SSB	-	-	-	-	-
TN	TN-index	2012	36	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*

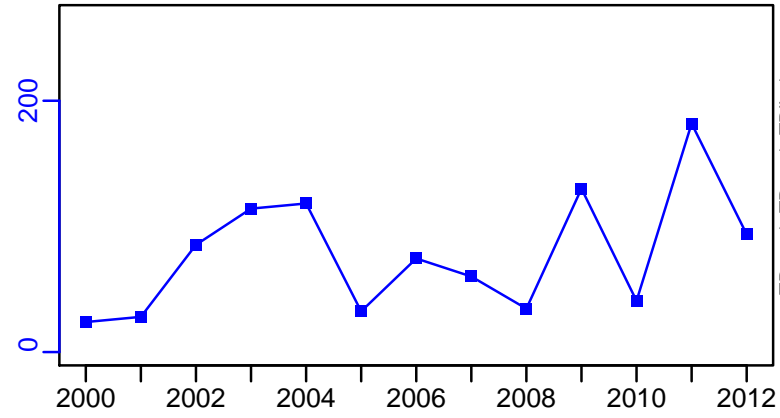


◆ Start Year ◆ End Year * No Data

Eulachon Pacific Coast of Canada Nass / Skeena DU [EULAPCOASTNSDU]

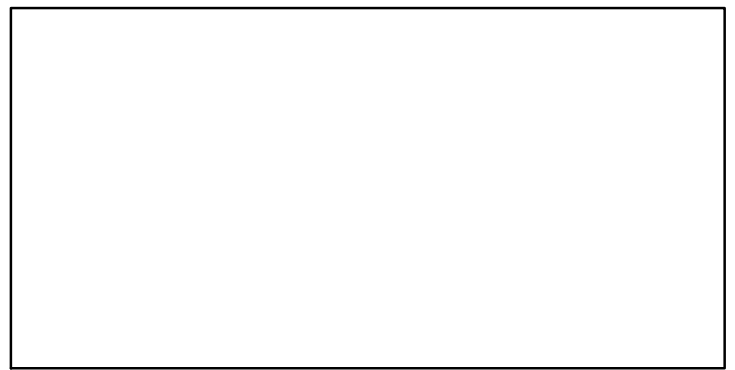
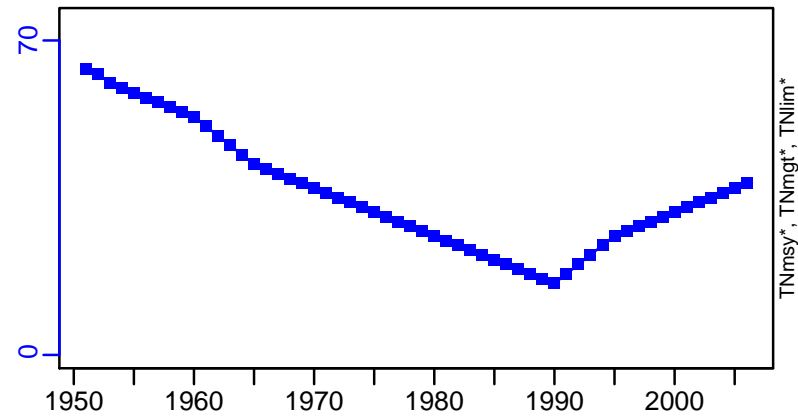
TB-MT (1951-2012-WATSON)

SSB*



TN-index (1951-2012-WATSON)

F*

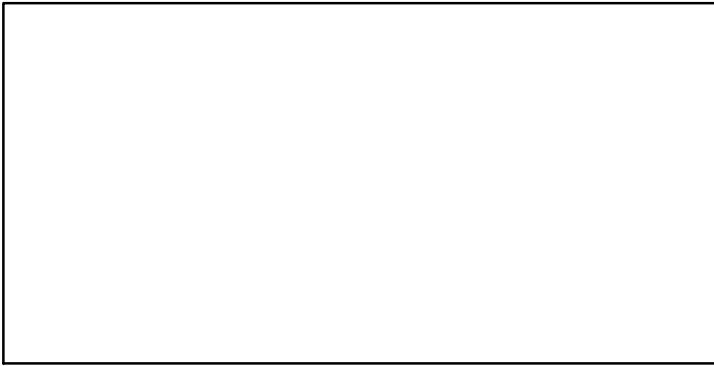


ER*

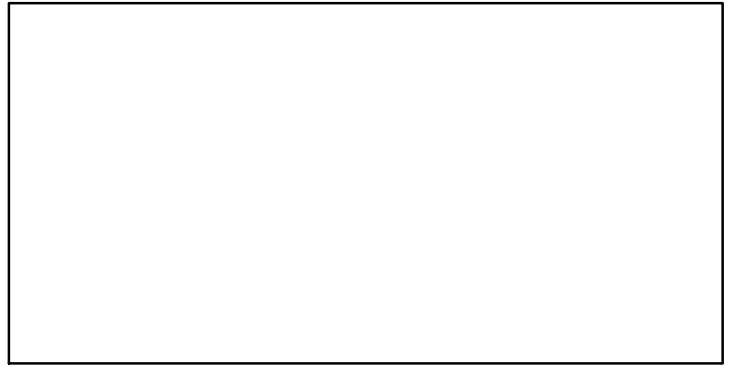
Recruits*



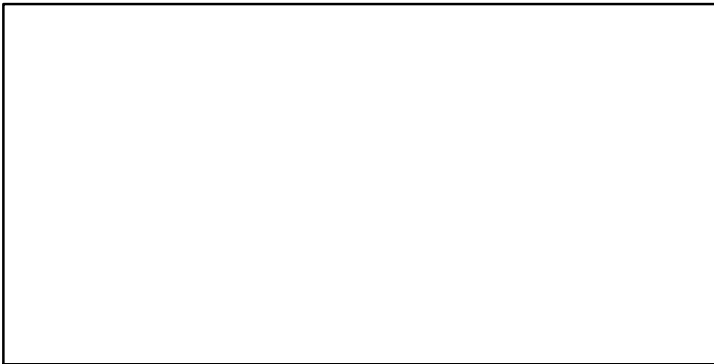
TC*, TL*, RecC*



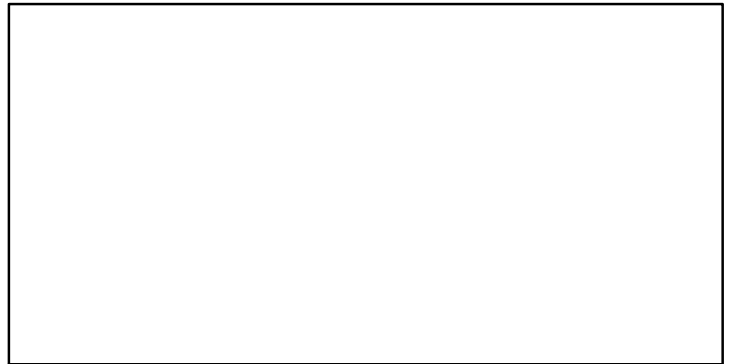
TAC*, Cpair*, Cadv*



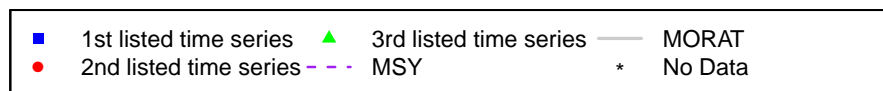
survB*



CPUE*



EFFORT*



Pacific herring Central Coast [HERRCC]

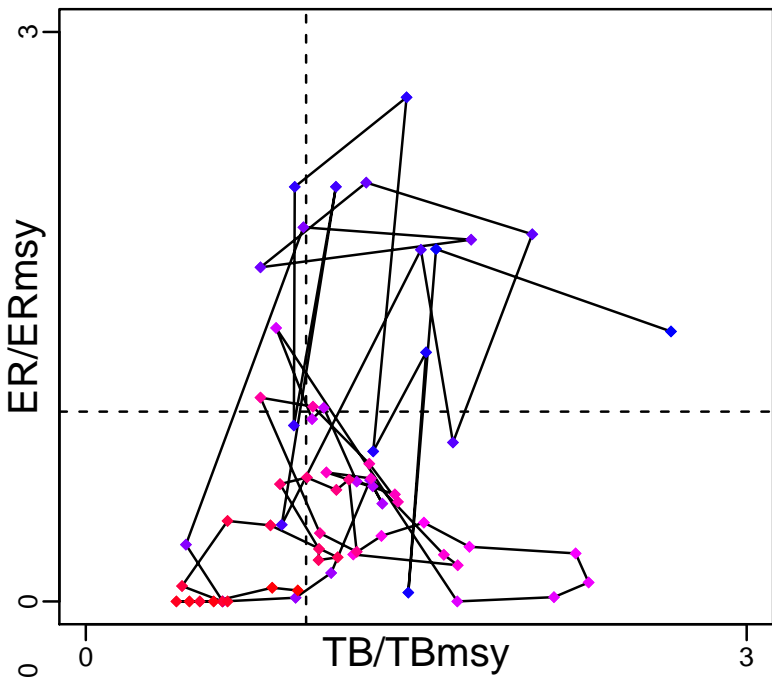
Metadata	
Scientific Name	Clupea pallasii
Current Assess ID	DFO-HERRCC-1951-2015-WATSON
Area	Central Coast
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans
Asmts in RAM	2015, 2007

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2015	50,821
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-est-ratio	2015	0.22
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2015	11,249
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

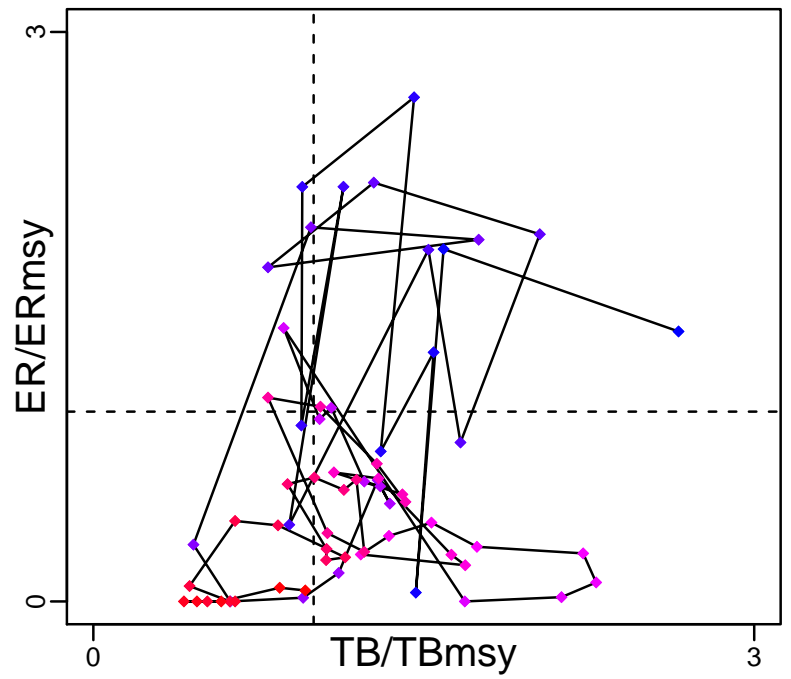
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	48,900	-	-
SSB	SSB-MT	2015	24,400	-	-
TN	-	-	-	-	-
R	R-E00	2015	2.78×10^8	-	-
F	F-1/yr	2007	0	-	-
ER	ER-calc-ratio	2015	0	-	-
TC	TC-MT	2015	626		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-est-MT	2015	0.96		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2015	0.06		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Pacific herring Central Coast [HERRCC]

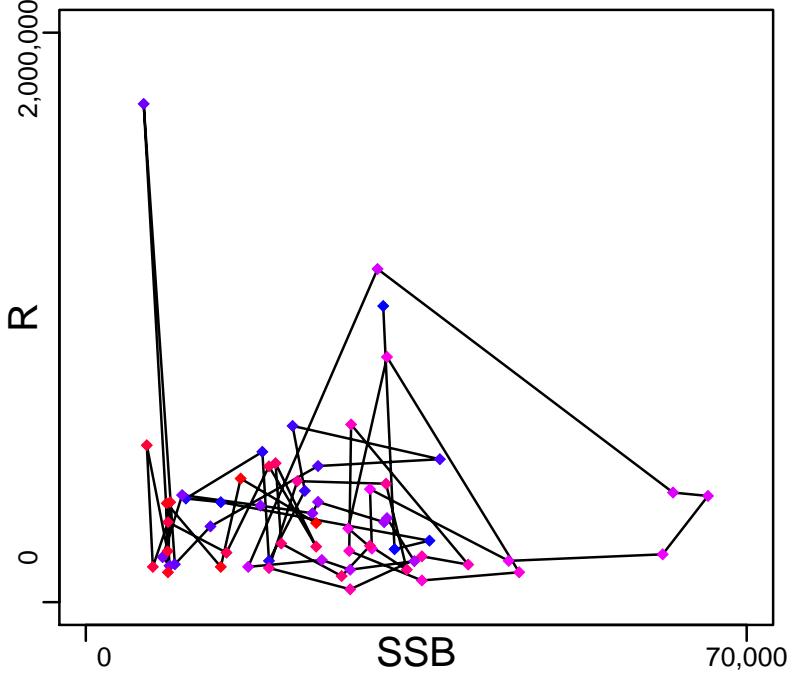
Kobe MSYpref (1951–2015–WATSON)



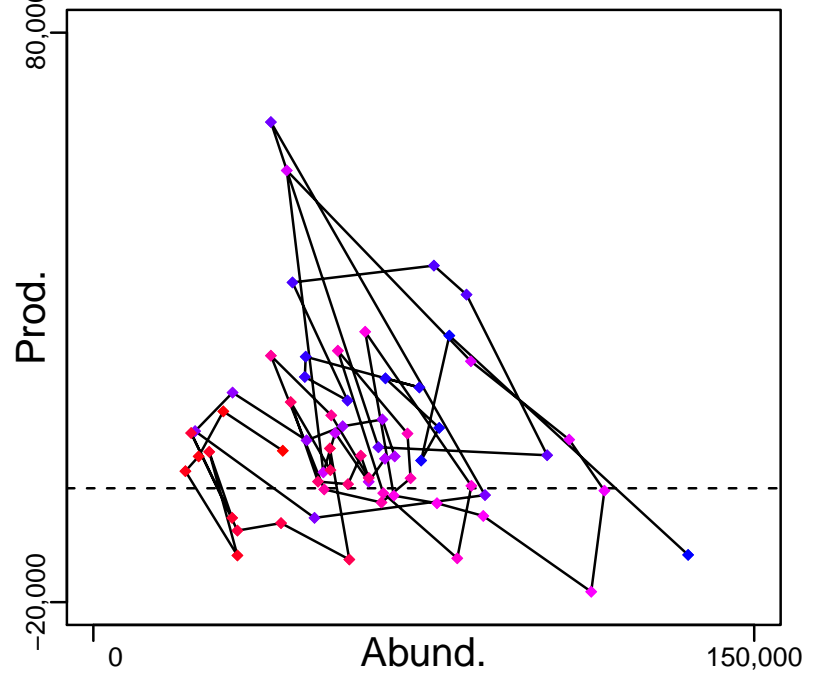
Kobe MGTpref (1951–2015–WATSON)



Spawner Recruit (1951–2015–WATSON)



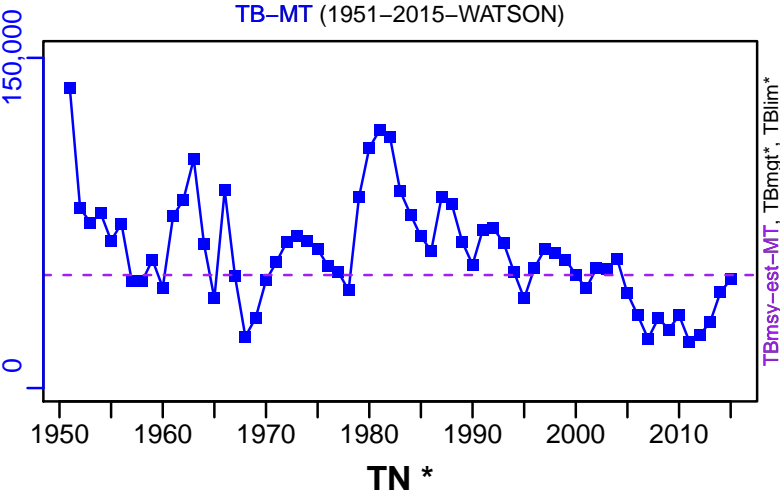
Production (1951–2015–WATSON)



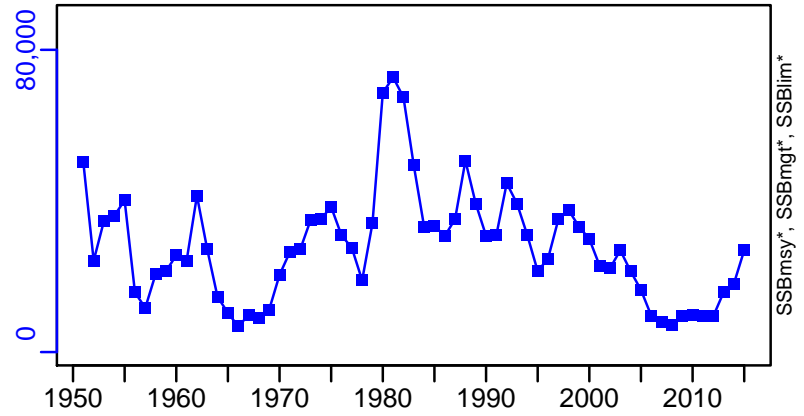
◆ Start Year ◆ End Year * No Data

Pacific herring Central Coast [HERRCC]

TB-MT (1951-2015-WATSON)



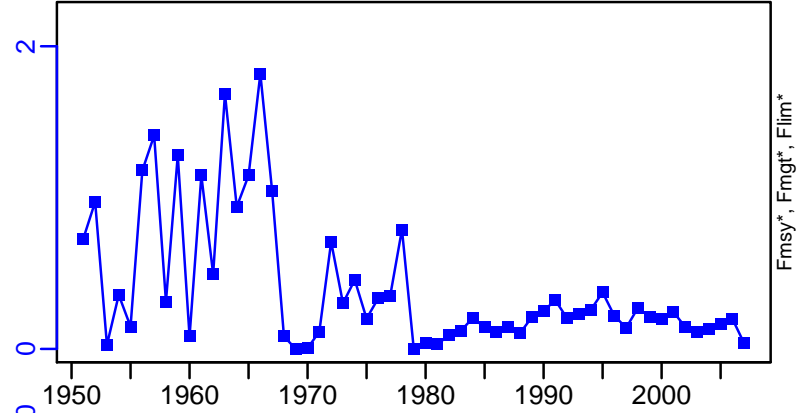
SSB-MT (1951-2015-WATSON)



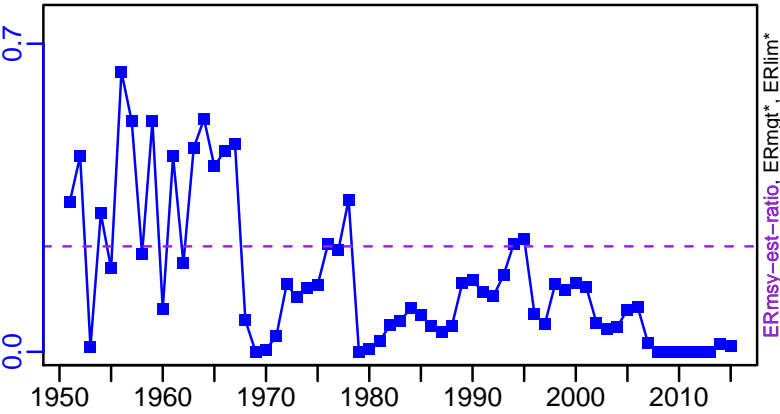
TN *



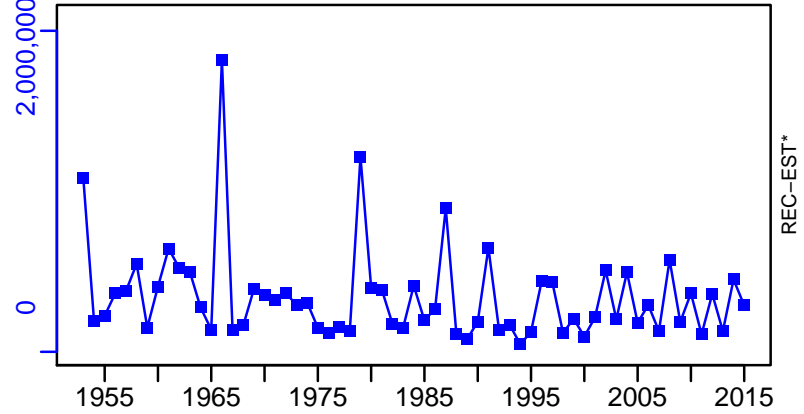
F-1/yr (1951-2007-COLLIE)



ER-calc-ratio (1951-2015-WATSON)



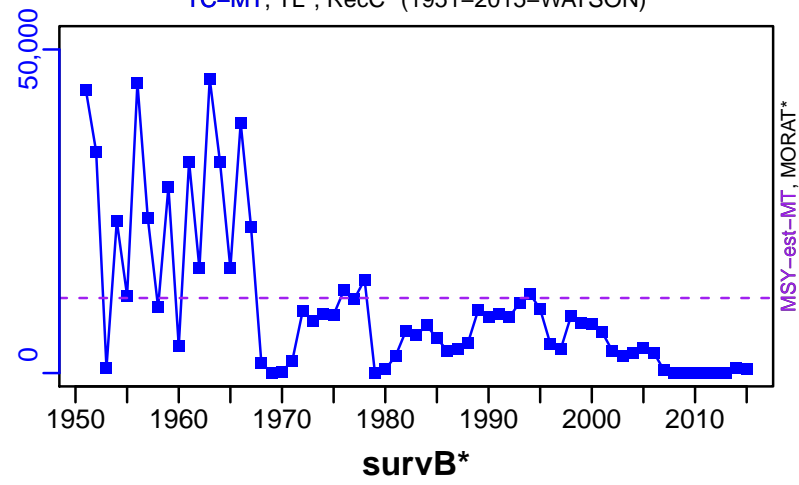
R-E00 (1951-2015-WATSON)



Pacific herring Central Coast [HERRCC]

TC-MT, TL*, RecC* (1951-2015-WATSON)

TAC*, Cpair*, Cadv*



EFFORT*



Pacific herring Prince Rupert District [HERRPRD]

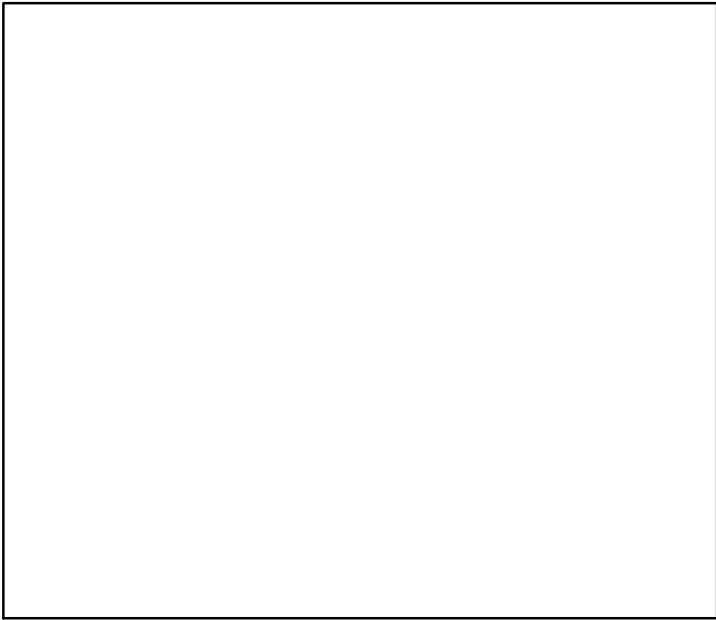
Metadata	
Scientific Name	Clupea pallasii
Current Assess ID	DFO-HERRPRD-1951-2015-WATSON
Area	Prince Rupert District
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans
Asmts in RAM	2015, 2007

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	56,300	-	-
SSB	SSB-MT	2015	17,500	-	-
TN	-	-	-	-	-
R	R-E00	2015	5.23×10^8	-	-
F	F-1/yr	2007	0	-	-
ER	ER-calc-ratio	2015	0	-	-
TC	TC-MT	2015	2160		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Pacific herring Prince Rupert District [HERRPRD]

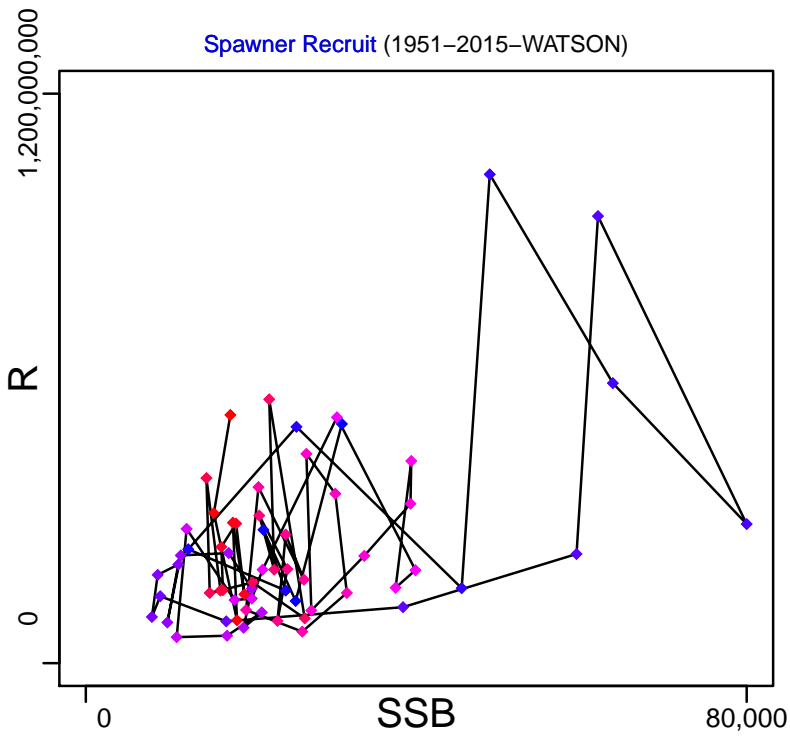
Kobe MSY*



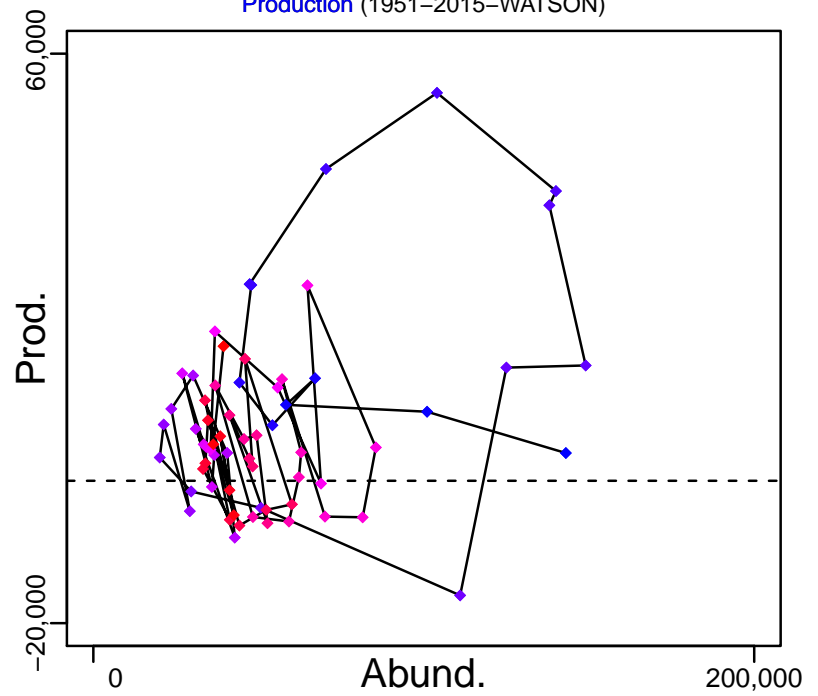
Kobe MGT*



Spawner Recruit (1951–2015–WATSON)



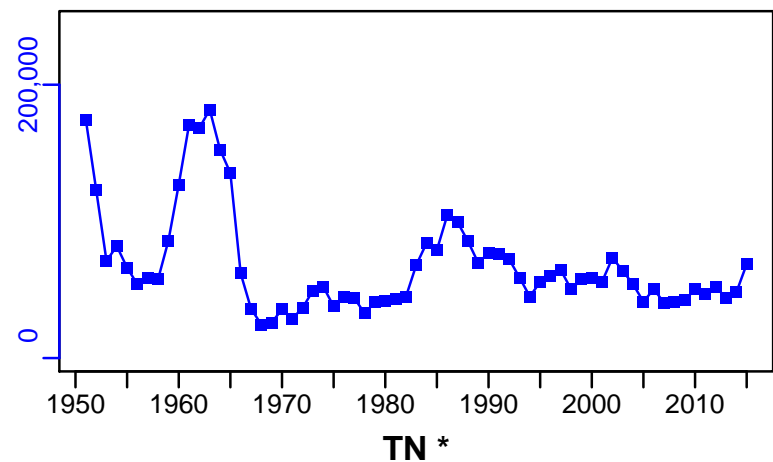
Production (1951–2015–WATSON)



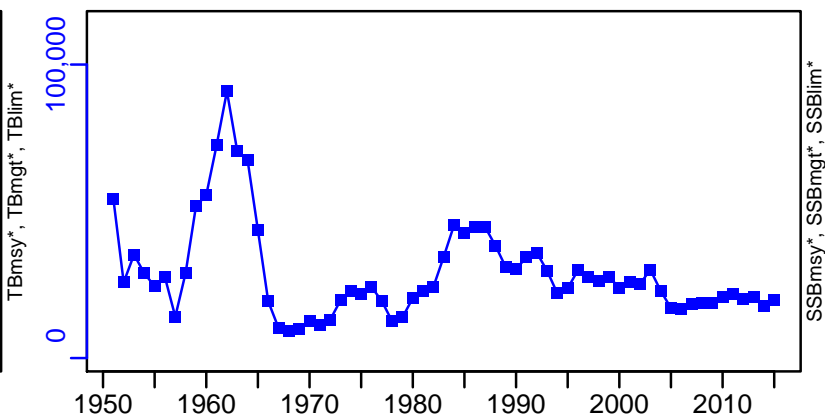
◆ Start Year ◆ End Year * No Data

Pacific herring Prince Rupert District [HERRPRD]

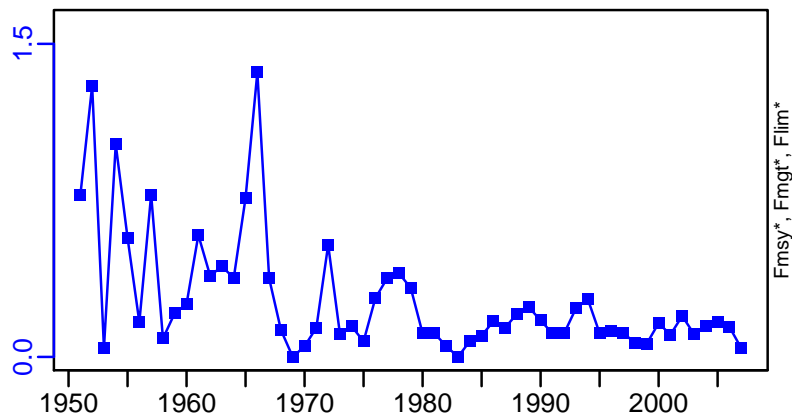
TB-MT (1951-2015-WATSON)



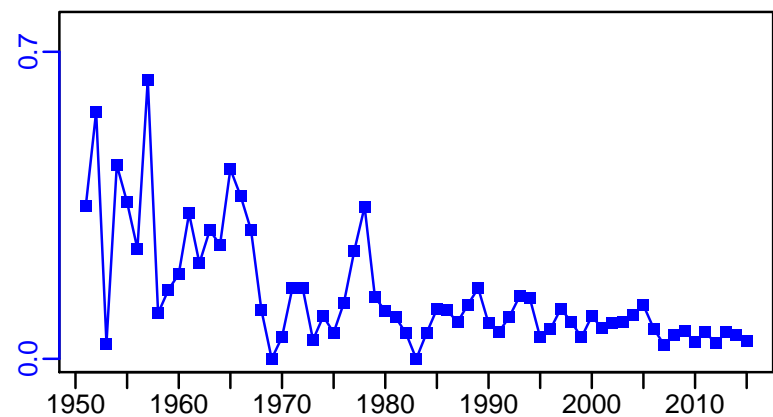
SSB-MT (1951-2015-WATSON)



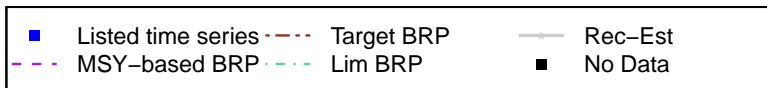
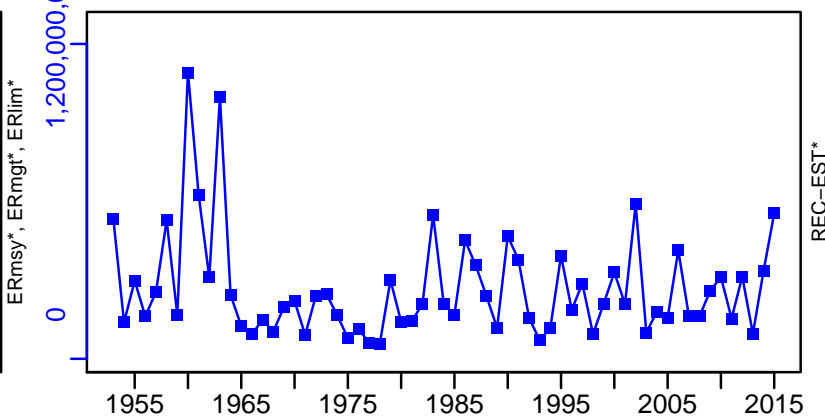
F-1/yr (1951-2007-COLLIE)



ER-calc-ratio (1951-2015-WATSON)



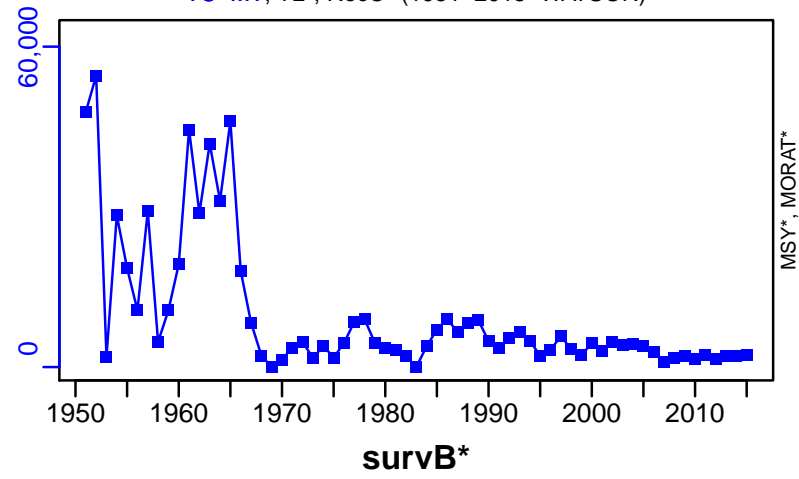
R-E00 (1951-2015-WATSON)



Pacific herring Prince Rupert District [HERRPRD]

TC-MT, TL*, RecC* (1951-2015-WATSON)

TAC*, Cpair*, Cadv*



EFFORT*



Pacific herring Haida Gwaii [HERRQCI]

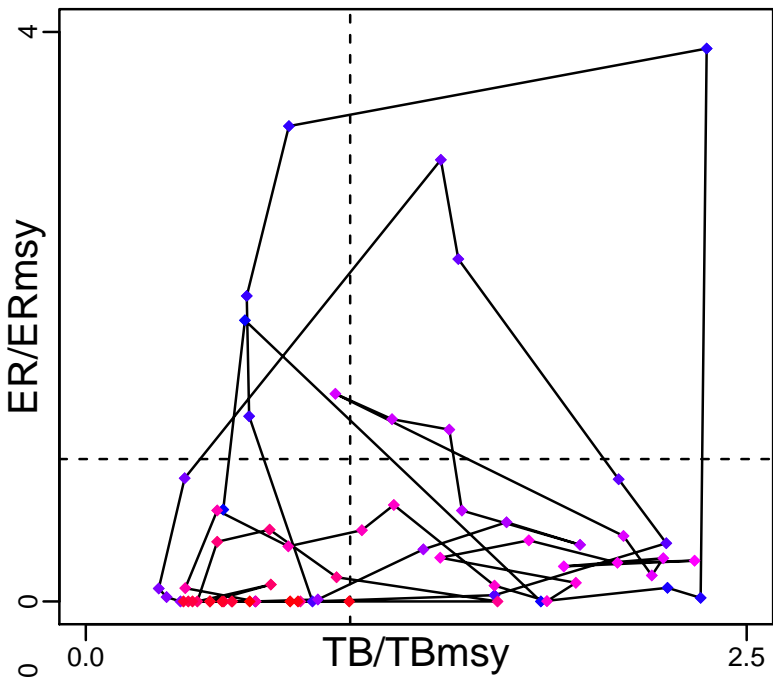
Metadata	
Scientific Name	Clupea pallasii
Current Assess ID	DFO-HERRQCI-1951-2015-WATSON
Area	Queen Charlotte Islands
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans
Asmts in RAM	2015, 2007

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2015	43,856
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-est-ratio	2015	0.19
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2015	8497
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

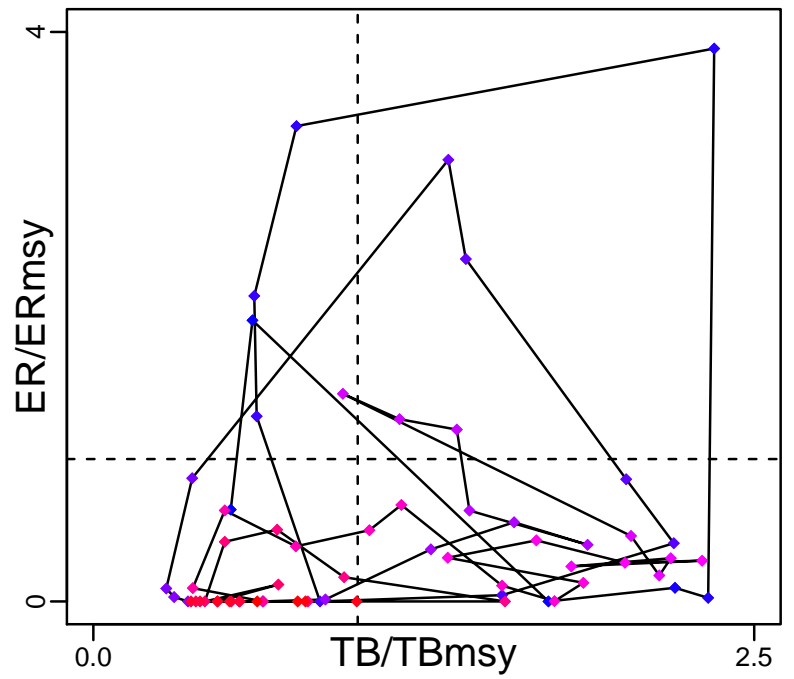
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	27,200	-	-
SSB	SSB-MT	2015	11,100	-	-
TN	-	-	-	-	-
R	R-E00	2015	1.03×10^8	-	-
F	F-1/yr	2007	0	-	-
ER	ER-calc-ratio	2015	0	-	-
TC	TC-MT	2015	0		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-est-MT	2015	0.62		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2015	0		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Pacific herring Haida Gwaii [HERRQCI]

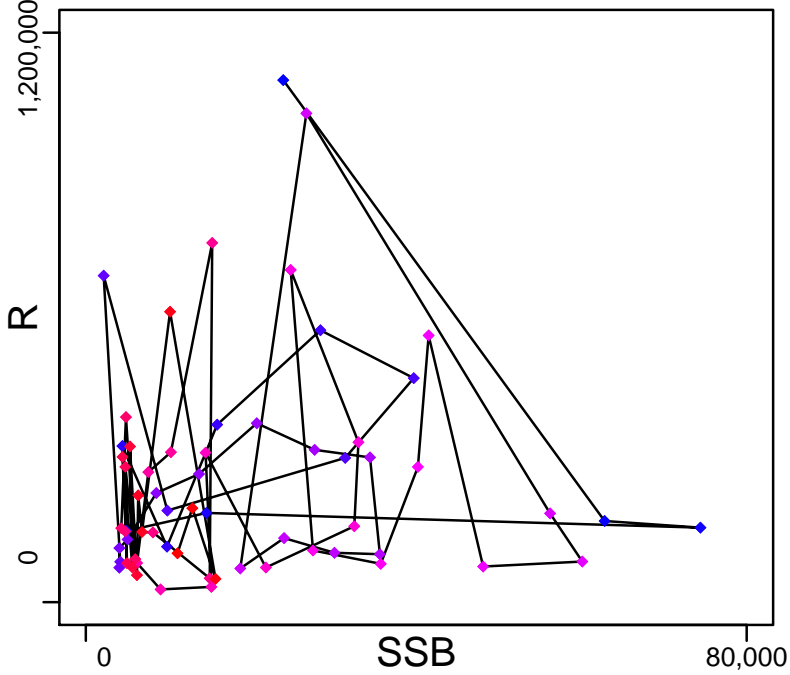
Kobe MSY_{pref} (1951–2015–WATSON)



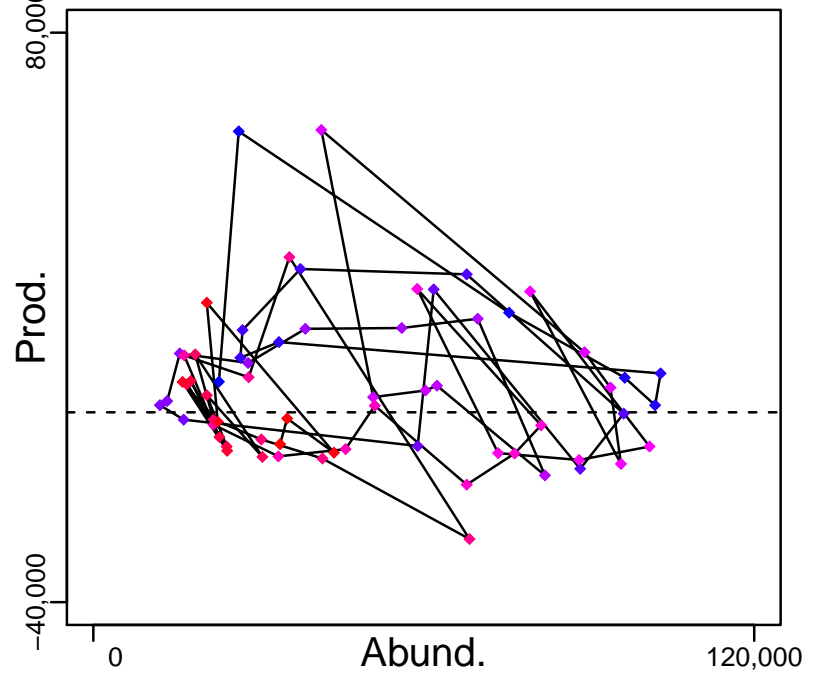
Kobe MGT_{pref} (1951–2015–WATSON)



Spawner Recruit (1951–2015–WATSON)



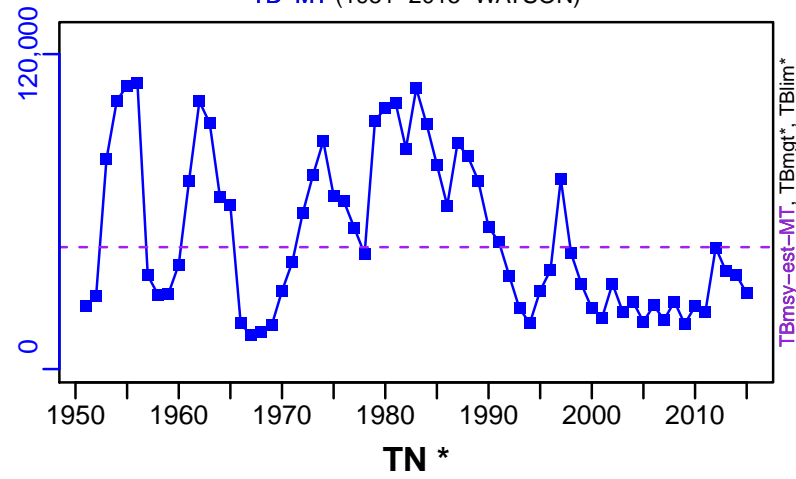
Production (1951–2015–WATSON)



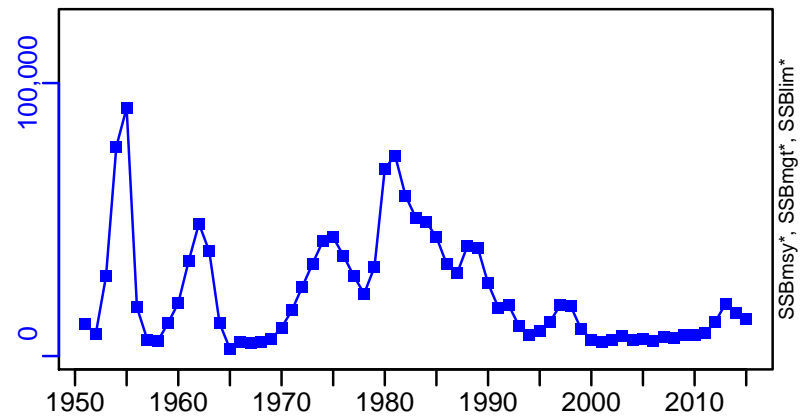
◆ Start Year ◆ End Year * No Data

Pacific herring Haida Gwaii [HERRQCI]

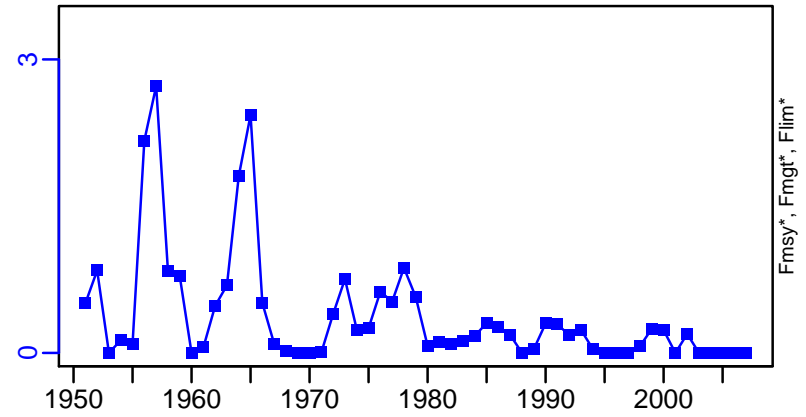
TB-MT (1951-2015-WATSON)



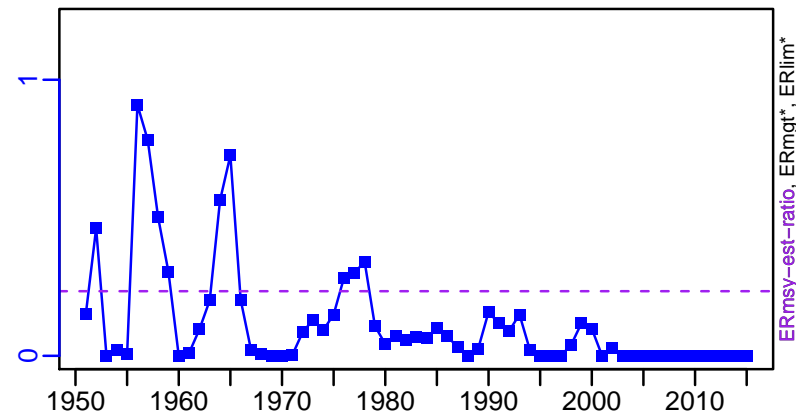
SSB-MT (1951-2015-WATSON)



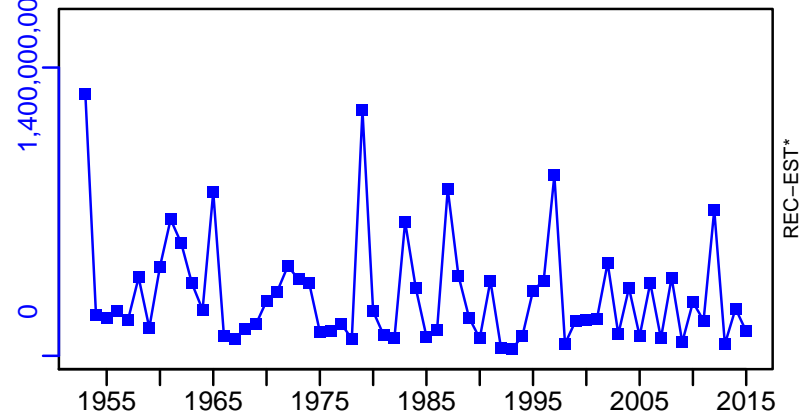
F-1/yr (1951-2007-COLLIE)



ER-calc-ratio (1951-2015-WATSON)



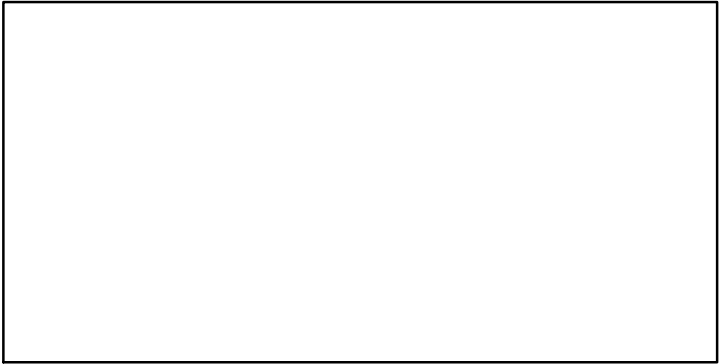
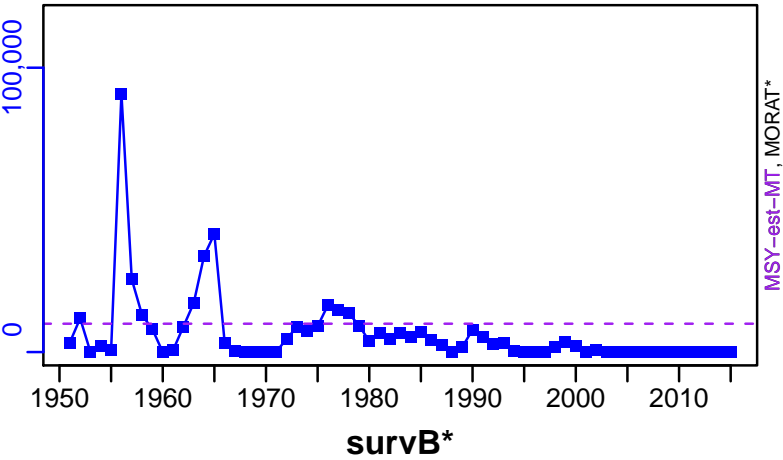
R-E00 (1951-2015-WATSON)



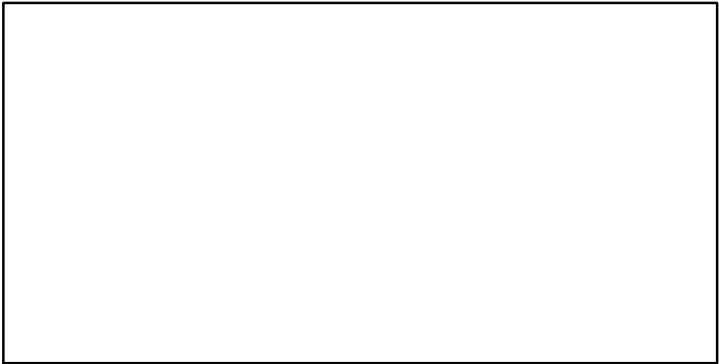
Pacific herring Haida Gwaii [HERRQCI]

TC-MT, TL*, RecC* (1951-2015-WATSON)

TAC*, Cpair*, Cadv*



EFFORT*



Pacific herring Straight of Georgia [HERRSOG]

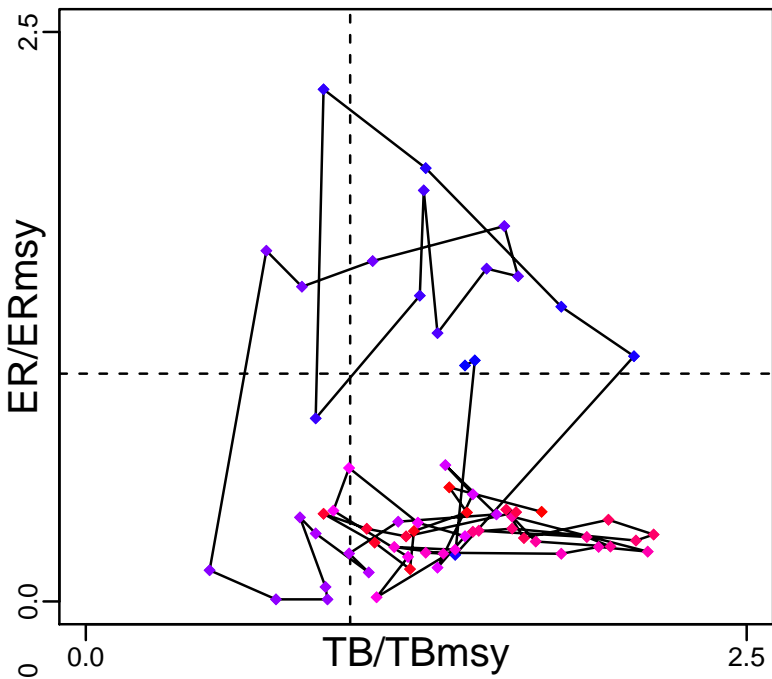
Metadata	
Scientific Name	Clupea pallasii
Current Assess ID	DFO-HERRSOG-1951-2015-WATSON
Area	Straight of Georgia
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans
Asmts in RAM	2015, 2007

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2015	134,545
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-est-ratio	2015	0.22
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2015	29,479
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

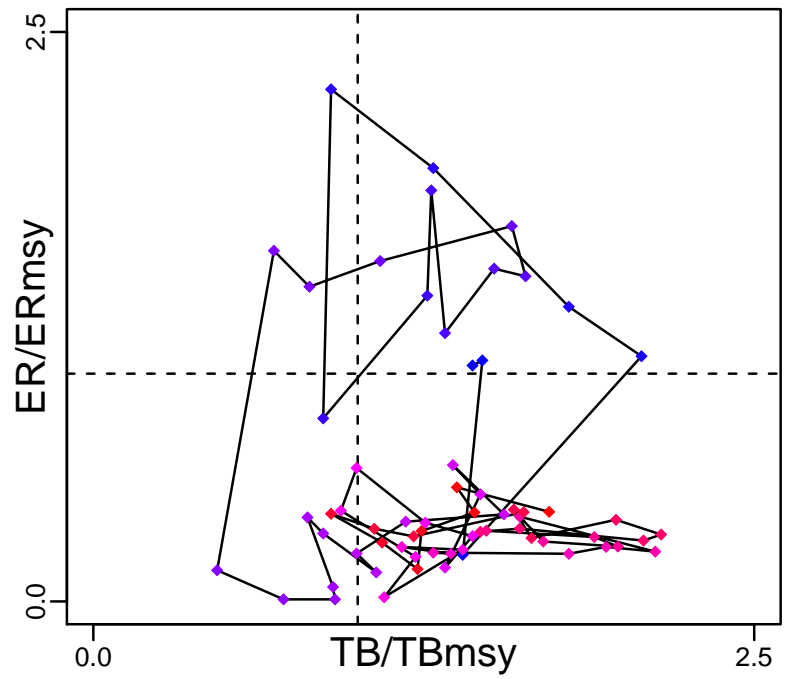
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	232,000	-	-
SSB	SSB-MT	2015	92,700	-	-
TN	-	-	-	-	-
R	R-E00	2015	1.88×10^9	-	-
F	F-1/yr	2007	0	-	-
ER	ER-calc-ratio	2015	0	-	-
TC	TC-MT	2015	20,000		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-est-MT	2015	1.72		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2015	0.39		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Pacific herring Straight of Georgia [HERRSOG]

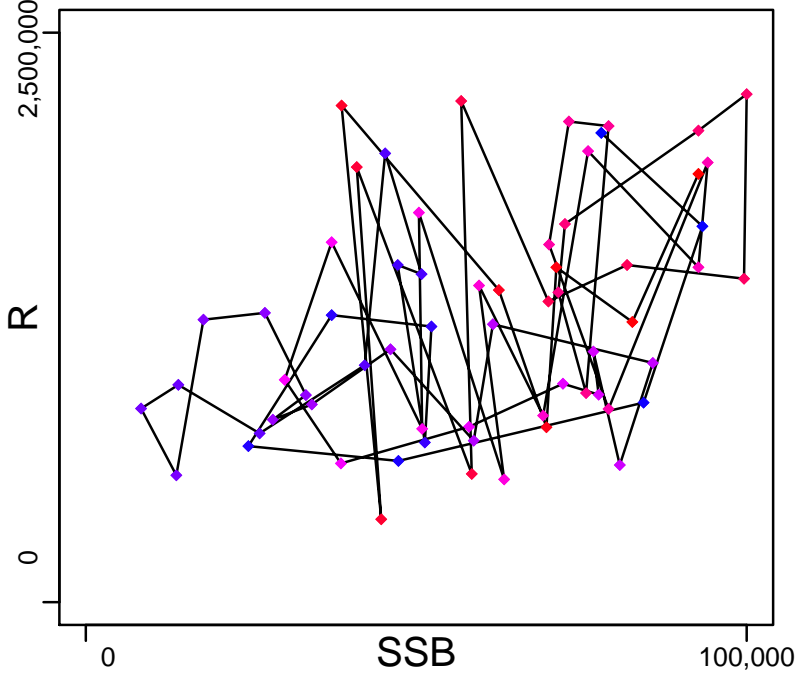
Kobe MSY_{pref} (1951–2015–WATSON)



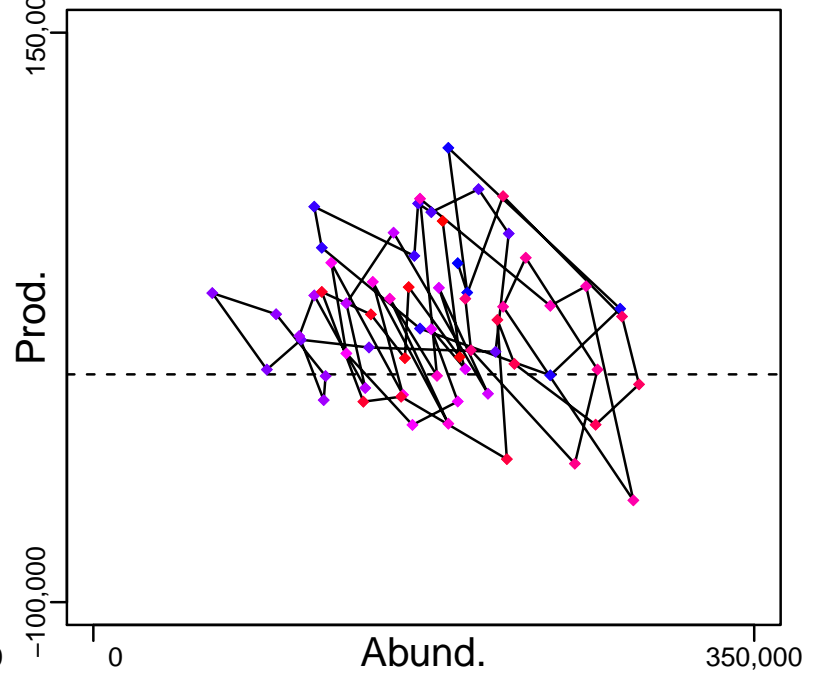
Kobe MGT_{pref} (1951–2015–WATSON)



Spawner Recruit (1951–2015–WATSON)



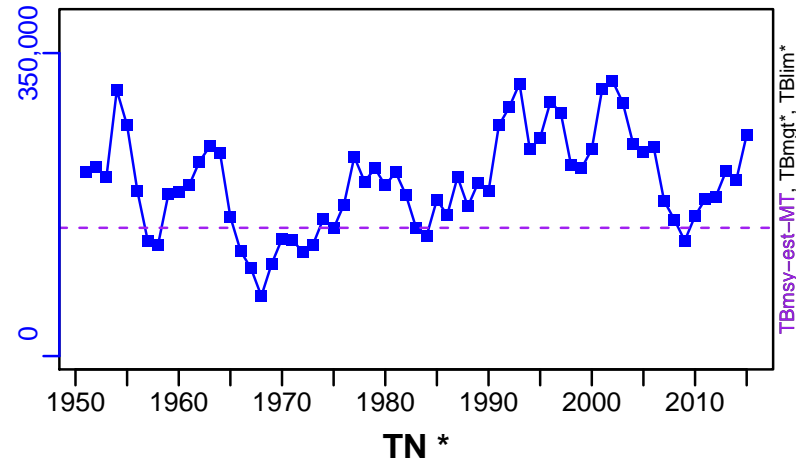
Production (1951–2015–WATSON)



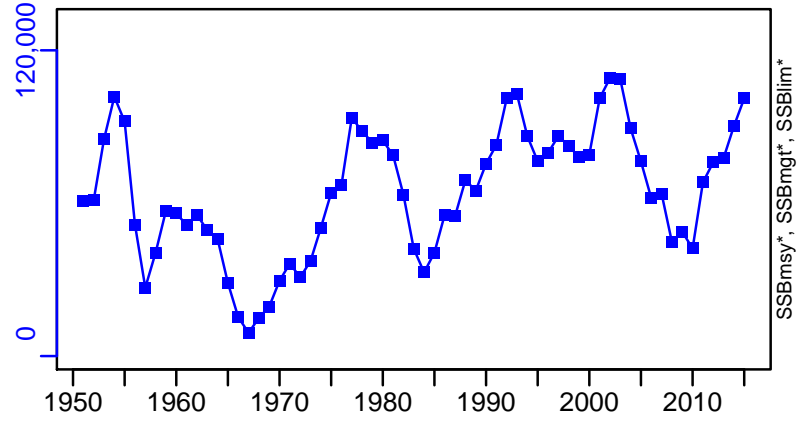
◆ Start Year ◆ End Year * No Data

Pacific herring Straight of Georgia [HERRSOG]

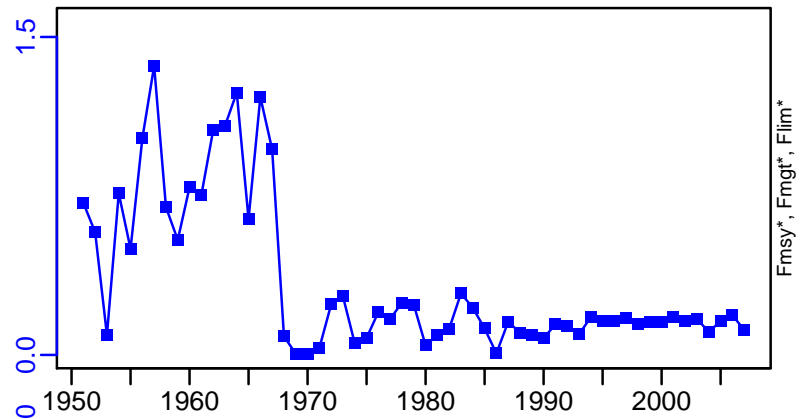
TB-MT (1951-2015-WATSON)



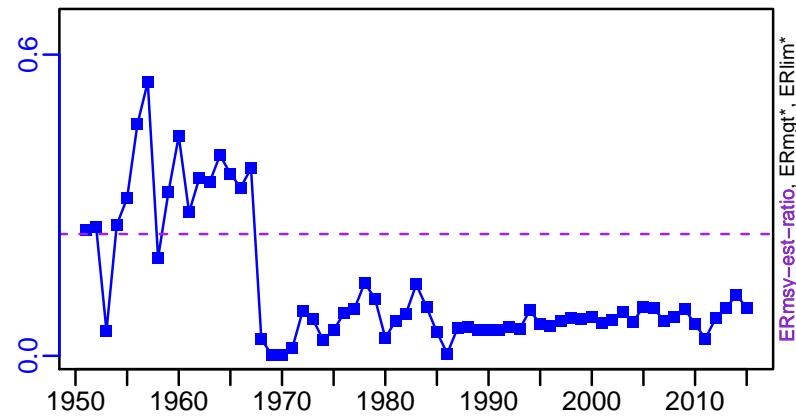
SSB-MT (1951-2015-WATSON)



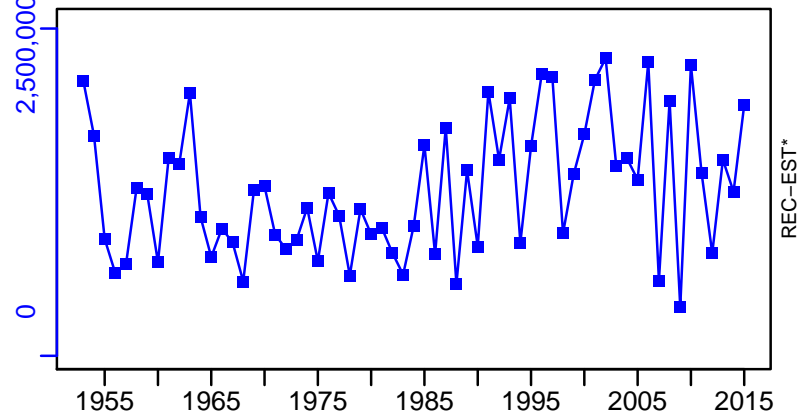
F-1/yr (1951-2007-COLLIE)



ER-calc-ratio (1951-2015-WATSON)



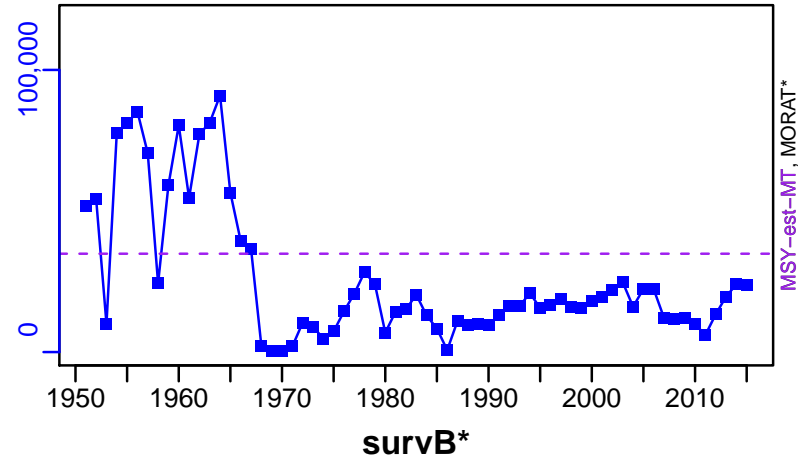
R-E00 (1951-2015-WATSON)



Pacific herring Straight of Georgia [HERRSOG]

TC-MT, TL*, RecC* (1951-2015-WATSON)

TAC*, Cpair*, Cadv*



EFFORT*



Pacific herring West Coast of Vancouver Island [HERRWCVANI]

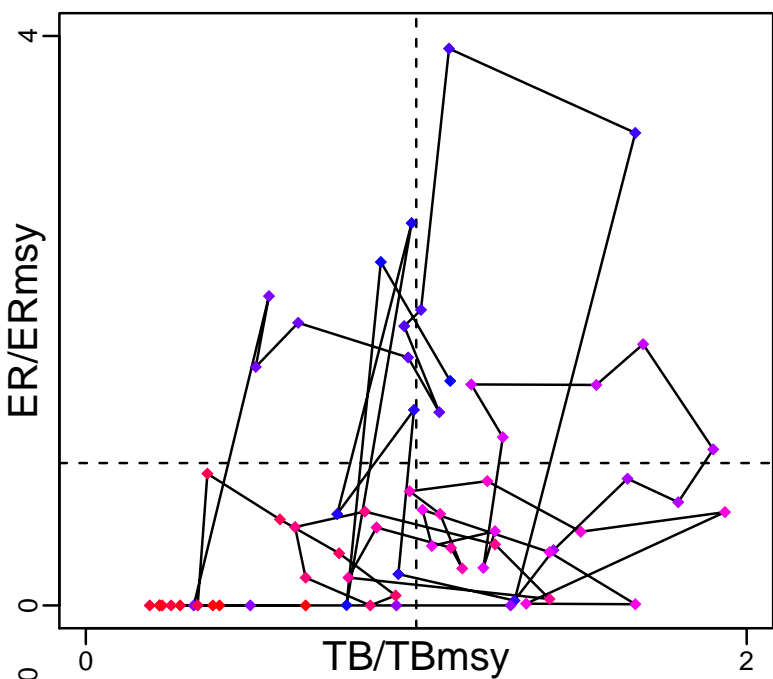
Metadata	
Scientific Name	Clupea pallasii
Current Assess ID	DFO-HERRWCVANI-1951-2015-WATSON
Area	West Coast of Vancouver Island
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans
Asmts in RAM	2015, 2007

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2015	84,789
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-est-ratio	2015	0.15
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2015	12,538
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

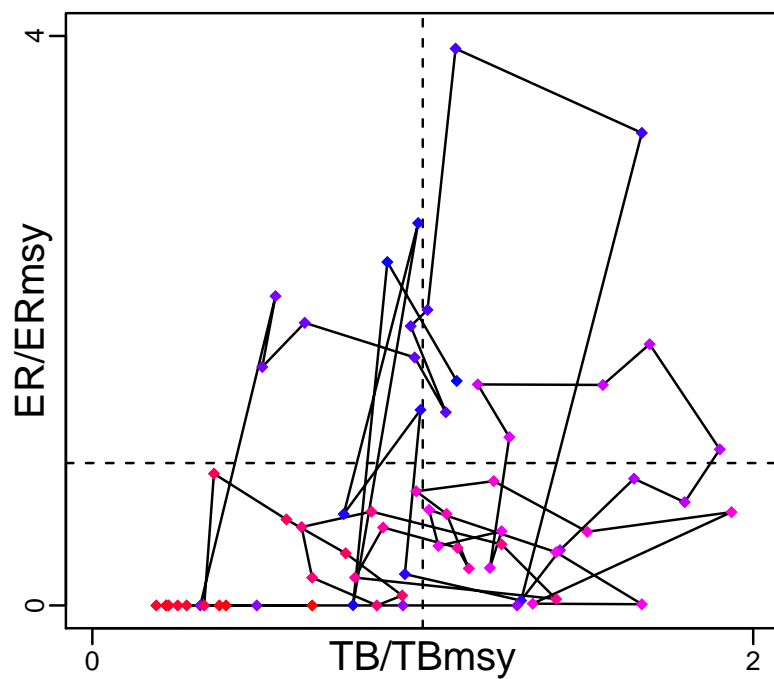
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	56,400	-	-
SSB	SSB-MT	2015	12,100	-	-
TN	-	-	-	-	-
R	R-E00	2015	6.39×10^8	-	-
F	F-1/yr	2007	0	-	-
ER	ER-calc-ratio	2015	0	-	-
TC	TC-MT	2015	0		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-est-MT	2015	0.67		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2015	0		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Pacific herring West Coast of Vancouver Island [HERRWCVANI]

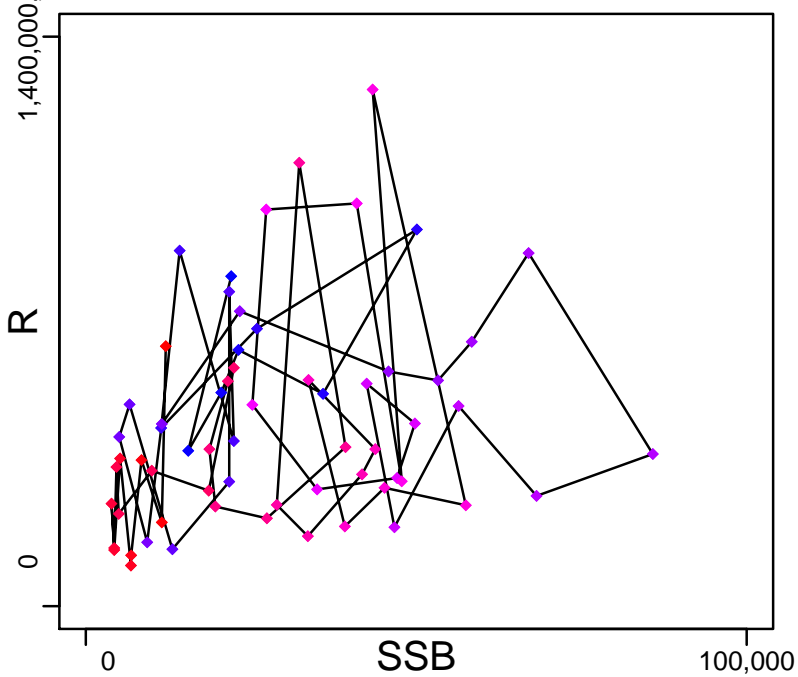
Kobe MSY_{pref} (1951–2015–WATSON)



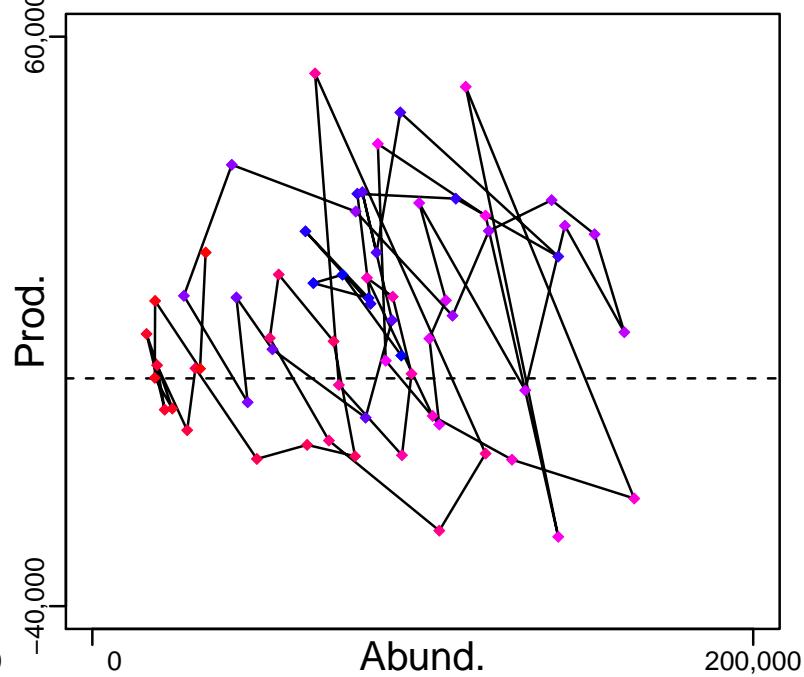
Kobe MGT_{pref} (1951–2015–WATSON)



Spawner Recruit (1951–2015–WATSON)



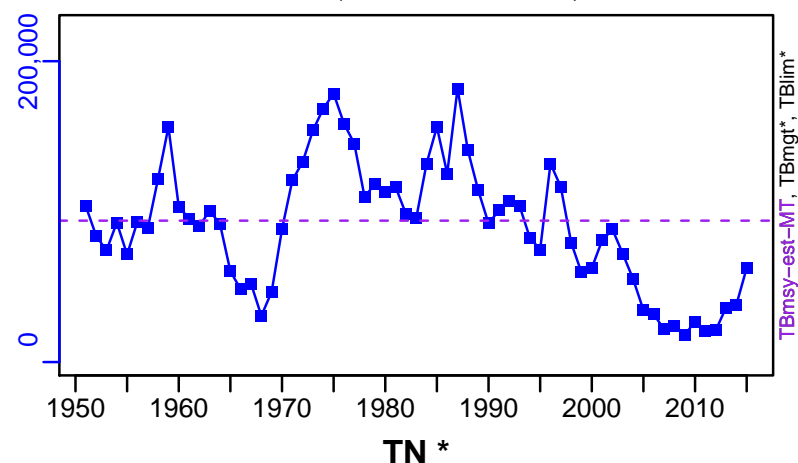
Production (1951–2015–WATSON)



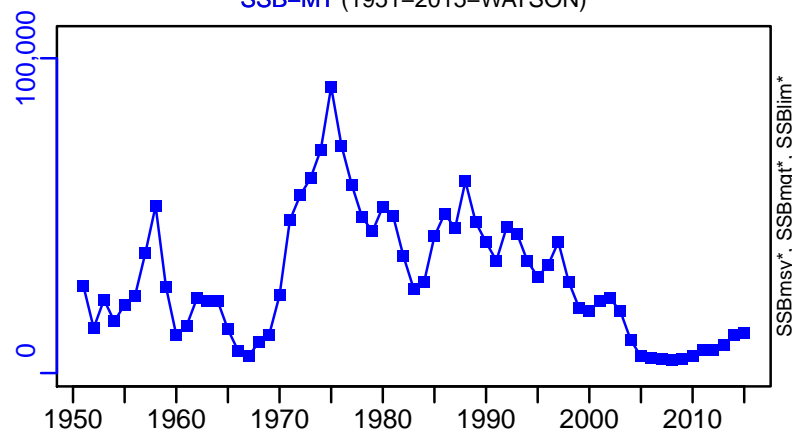
◆ Start Year ◆ End Year * No Data

Pacific herring West Coast of Vancouver Island [HERRWCVANI]

TB-MT (1951-2015-WATSON)



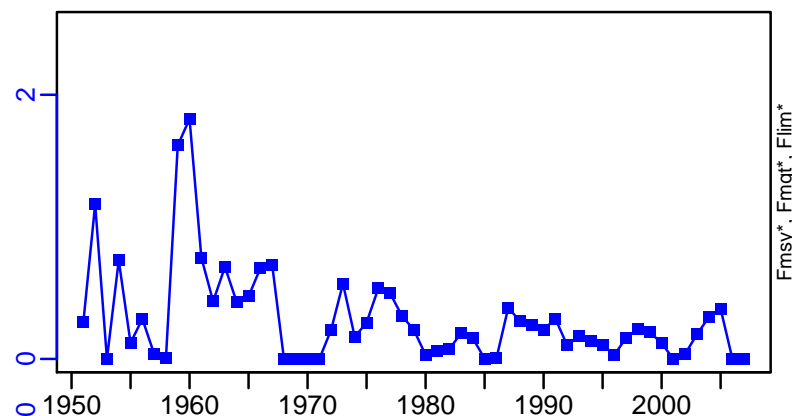
SSB-MT (1951-2015-WATSON)



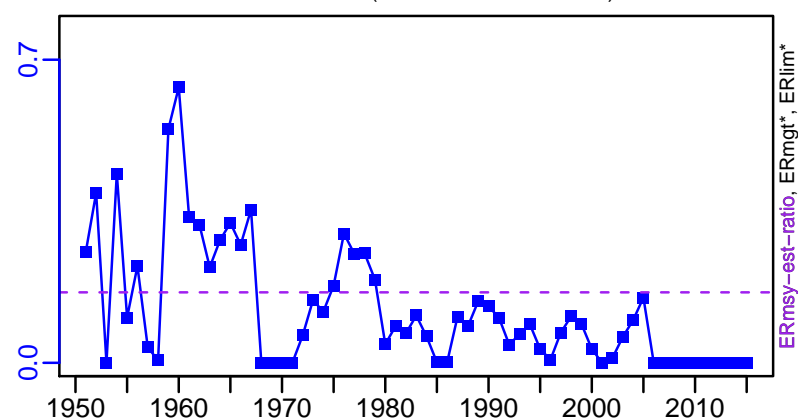
TN *



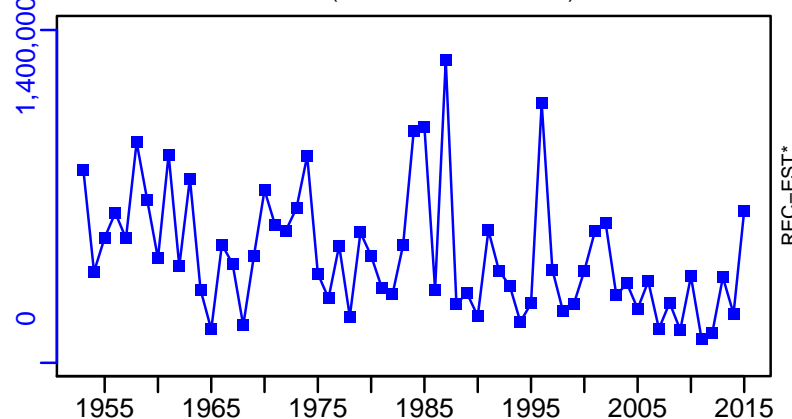
F-1/yr (1951-2007-COLLIE)



ER-calc-ratio (1951-2015-WATSON)



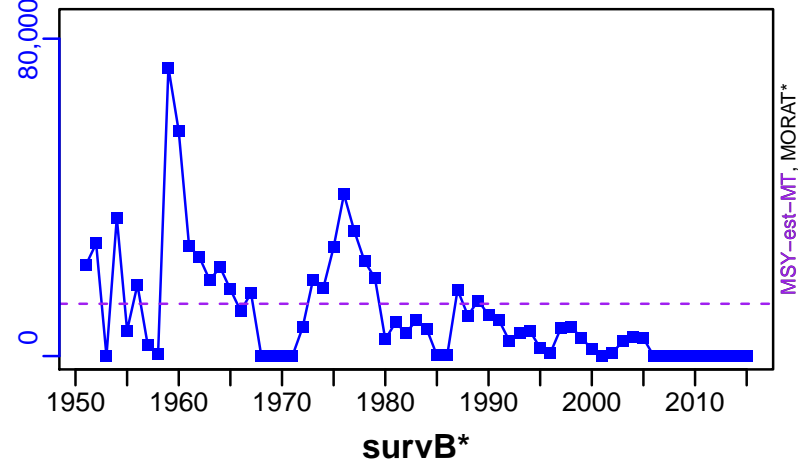
R-E00 (1951-2015-WATSON)



Pacific herring West Coast of Vancouver Island [HERRWCVANI]

TC-MT, TL*, RecC* (1951-2015-WATSON)

TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Lingcod Strait of Georgia [LINGCODSOG]

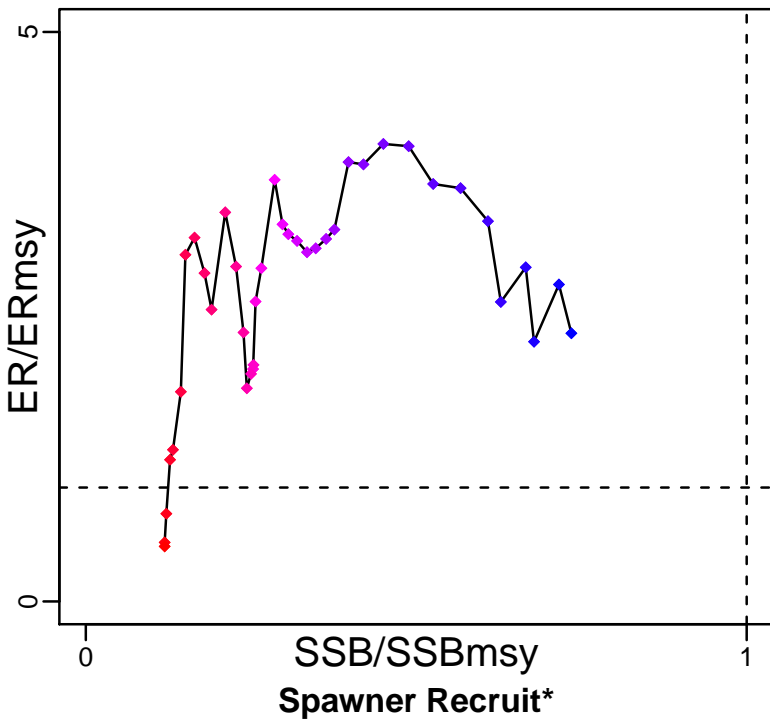
Metadata	
Scientific Name	Ophiodon elongatus
Current Assess ID	DFO-PAC-LINGCODSOG-1927-2014-OSGOOD
Area	Straight of Georgia
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Pacific Region
Asmts in RAM	2014

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2014	15,924
Fmsy	-	-	-
ERmsy	ERmsy-conv-ratio	2014	0.04
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2014	12,739
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2014	763
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

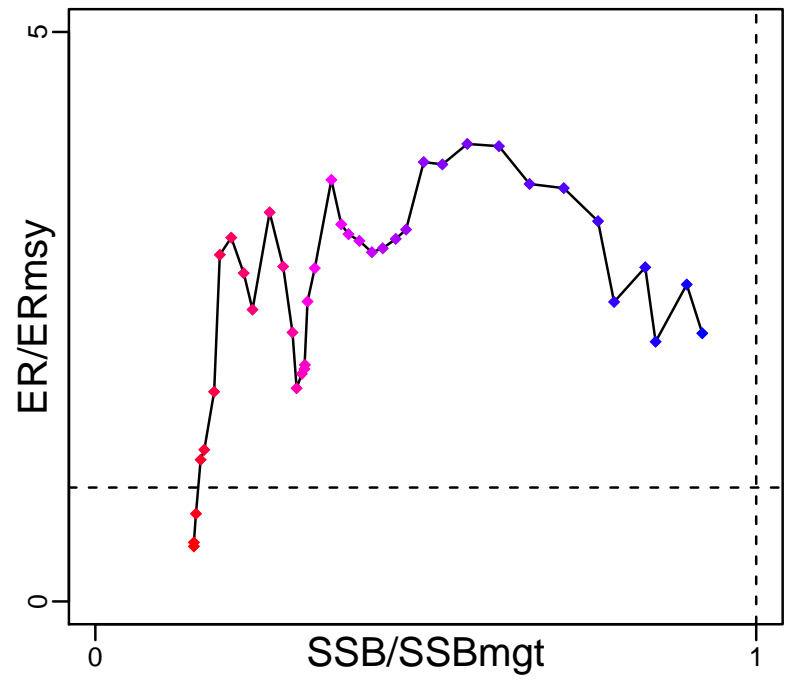
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2014	7120	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2014	0	-	-
TC	TC-MT	2014	44		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2014	0.45		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-conv-ratio	2014	0.48		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2014	0.56		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Lingcod Strait of Georgia [LINGCODSOG]

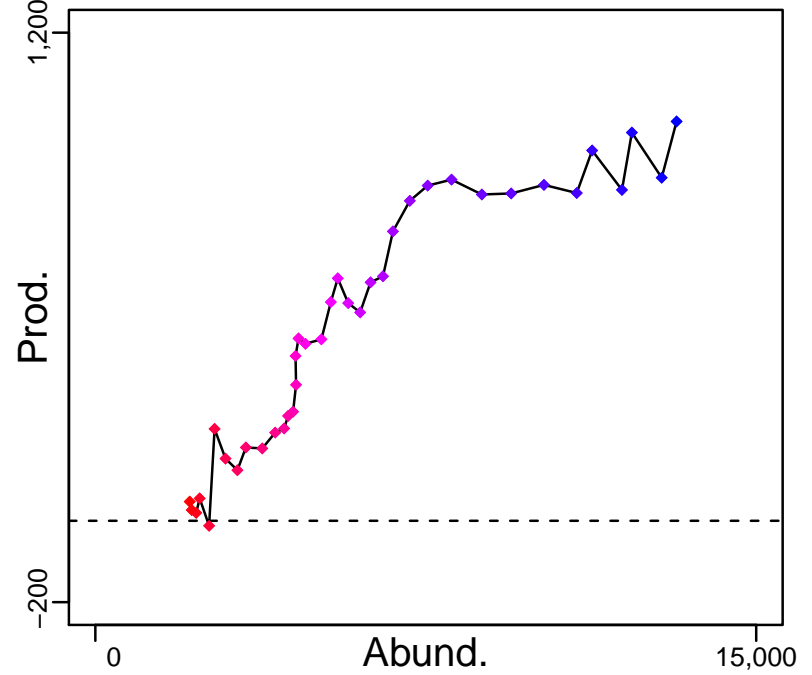
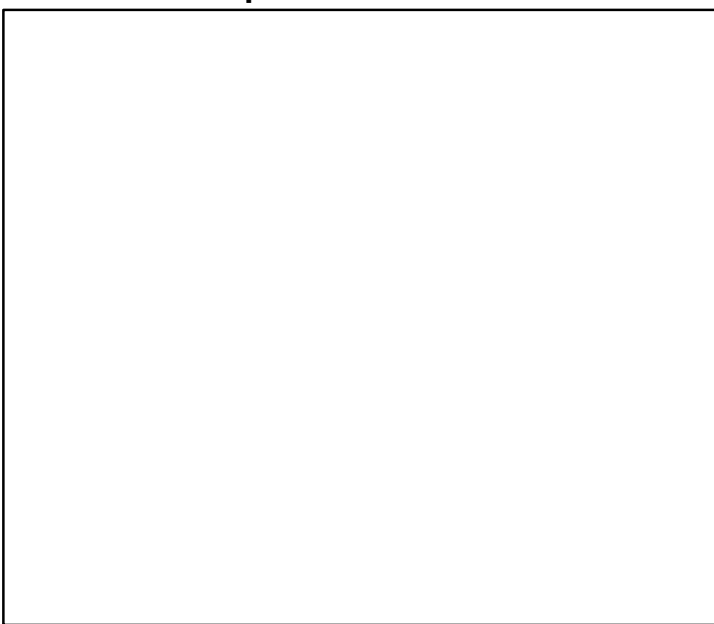
Kobe MSYpref (1927–2014–OSGOOD)



Kobe MGTpref (1927–2014–OSGOOD)



Production (1927–2014–OSGOOD)



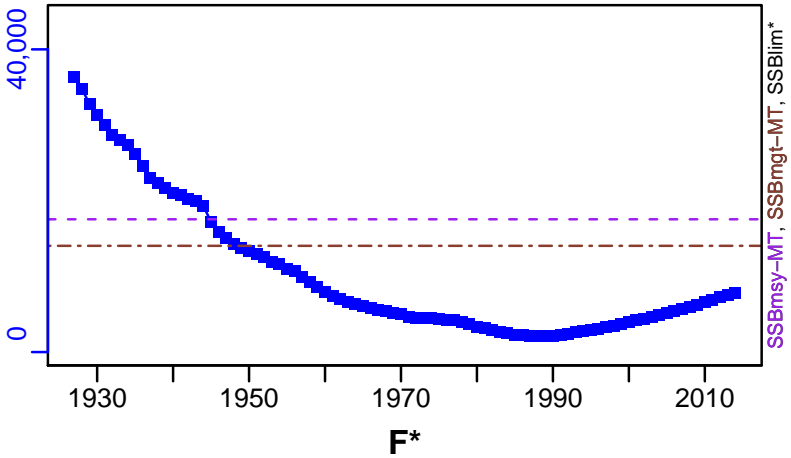
◆ Start Year ◆ End Year * No Data

Lingcod Strait of Georgia [LINGCODSOG]

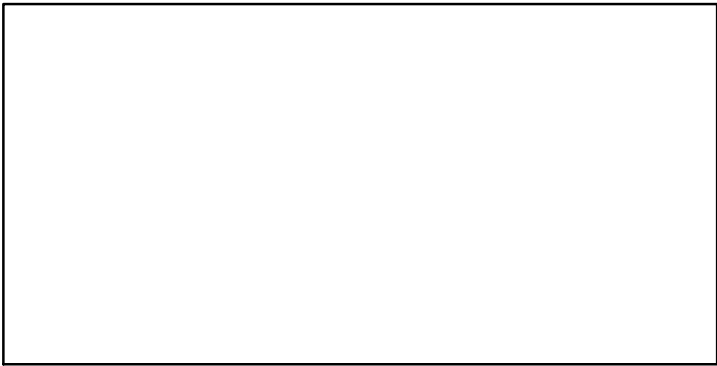
TB*



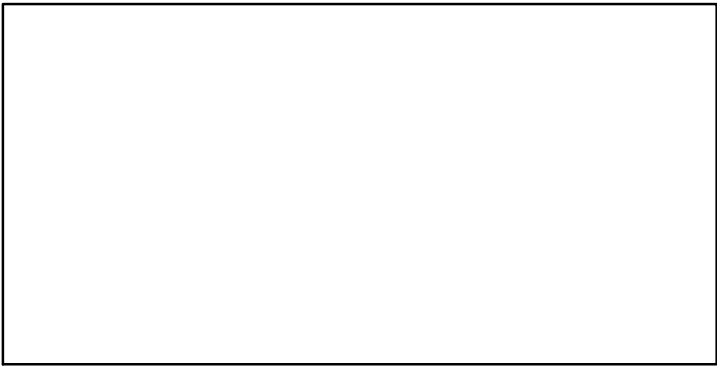
SSB-MT (1927-2014-OSGOOD)



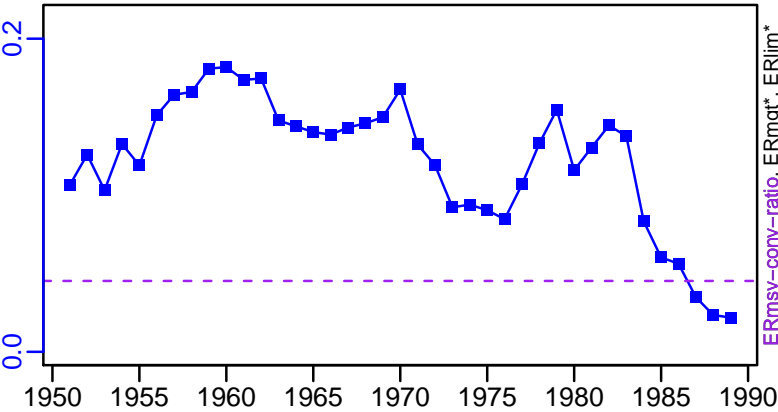
TN *



F*



ER-calc-ratio (1927-2014-OSGOOD)

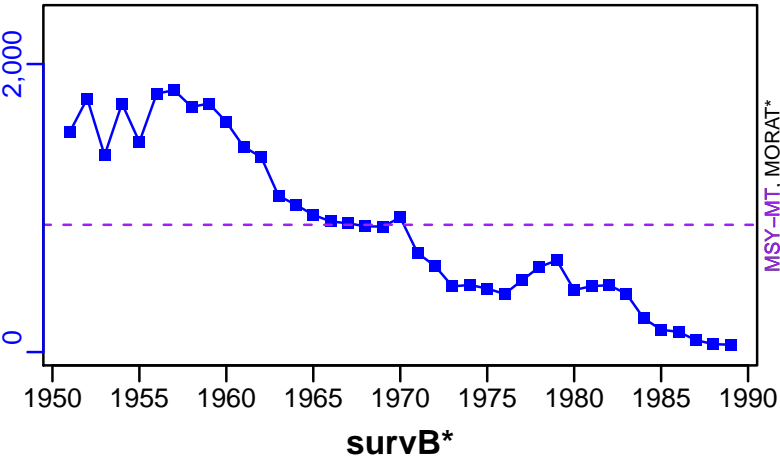


Recruits*



Lingcod Strait of Georgia [LINGCODSOG]

TC-MT, TL*, RecC* (1927-2014-OSGOOD)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Longnose skate West Coast Vancouver Island [LNOSESKA3CD]

Metadata	
Scientific Name	Raja rhina
Current Assess ID	DFO-PAC-LNOSESKA3CD-1954-2011-OSGOOD
Area	West Coast of Vancouver Island
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Pacific Region
Asmts in RAM	2011

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERMgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2011	286		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERMgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



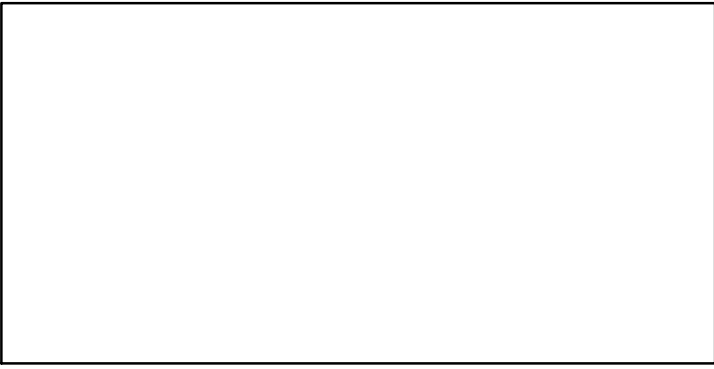
Production*



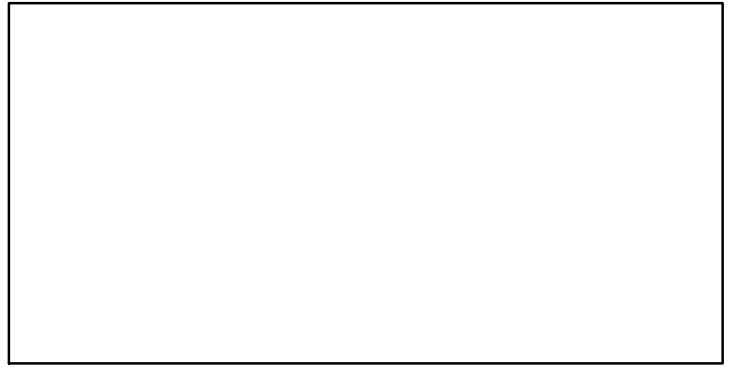
◆ Start Year ◆ End Year * No Data

Longnose skate West Coast Vancouver Island [LNOSESKA3CD]

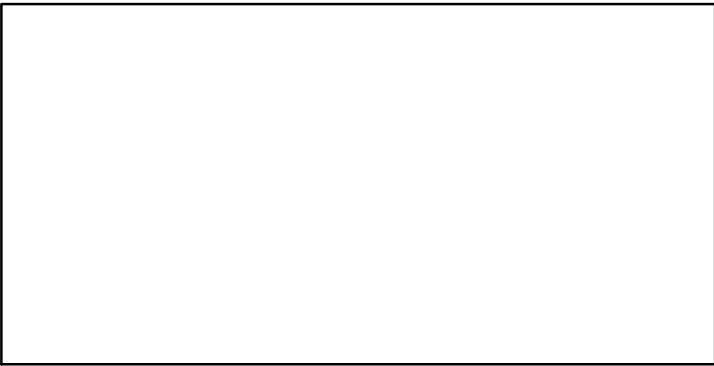
TB*



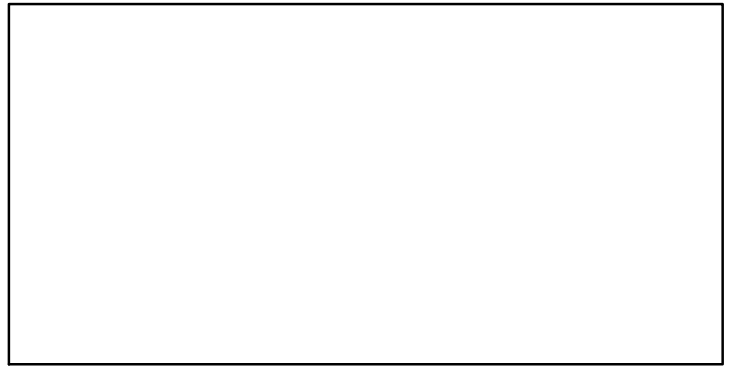
SSB*



TN *



F*



ER*



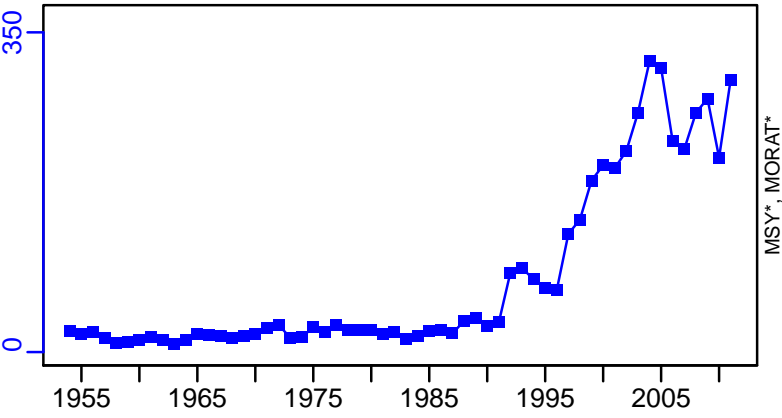
Recruits*



Longnose skate West Coast Vancouver Island [LNOSEKA3CD]

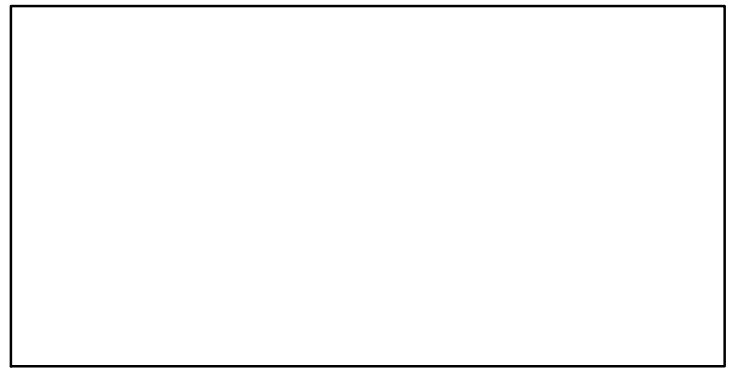
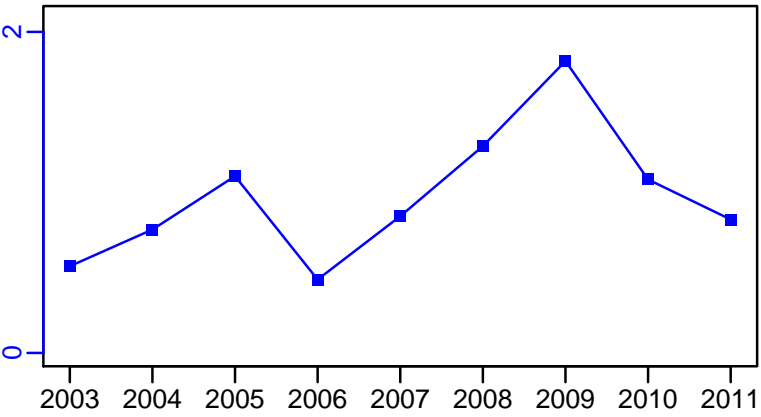
TC-MT, TL*, RecC* (1954-2011-OSGOOD)

TAC*, Cpair*, Cadv*

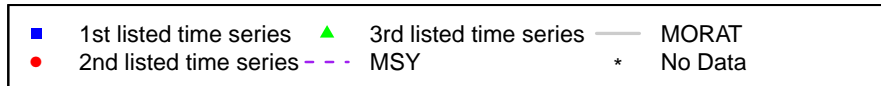
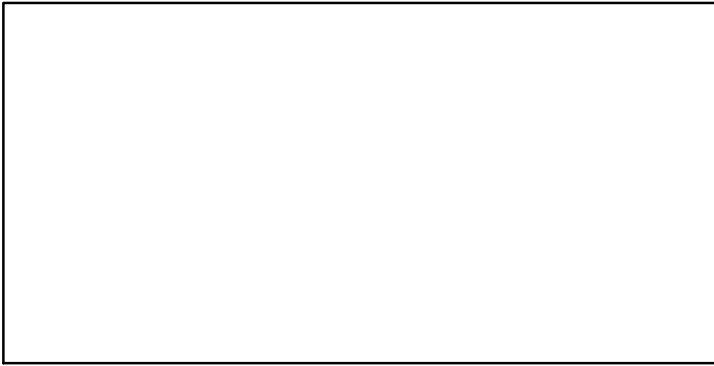


survB-fishperE02hooks (1954-2011-OSGOOD)

CPUE*



EFFORT*



Longnose Skate Strait of Georgia [LNOSESKA4B]

Metadata	
Scientific Name	Raja rhina
Current Assess ID	DFO-PAC-LNOSESKA4B-1996-2011-OSGOOD
Area	Straight of Georgia
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Pacific Region
Asmts in RAM	2011

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2011	1.5		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Longnose Skate Strait of Georgia [LNOSESKA4B]

TB*



SSB*



TN *



F*



ER*



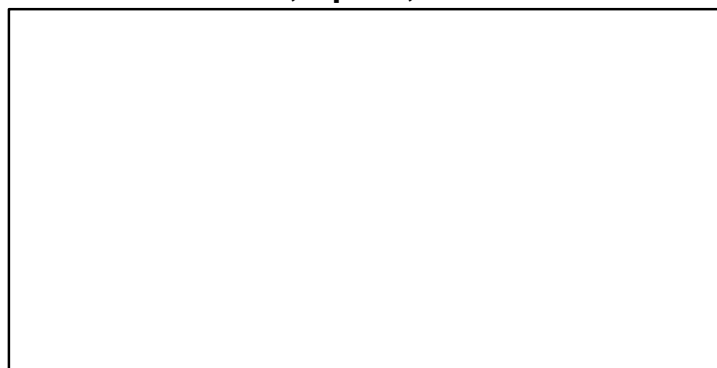
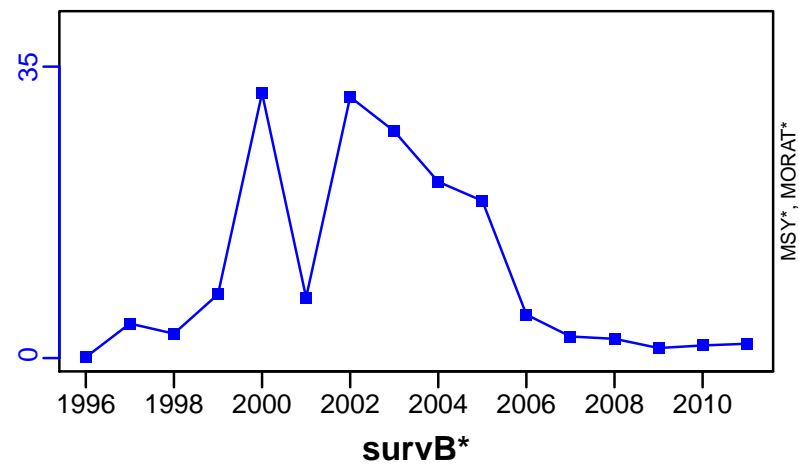
Recruits*



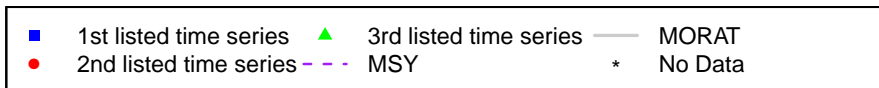
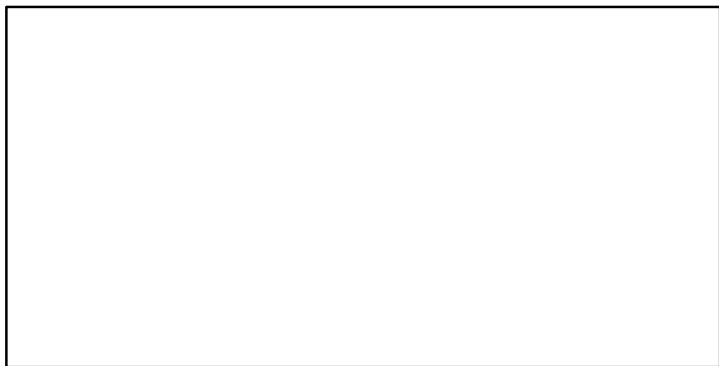
Longnose Skate Strait of Georgia [LNOSESKA4B]

TC-MT, TL*, RecC* (1996-2011-OSGOOD)

TAC*, Cpair*, Cadv*



EFFORT*



Longnose Skate Queen Charlotte Sound [LNOSESKA5AB]

Metadata	
Scientific Name	Raja rhina
Current Assess ID	DFO-PAC-LNOSESKA5AB-1954-2012-OSGOOD
Area	Queen Charlotte Sound
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Pacific Region
Asmts in RAM	2012

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2012	115		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year	◆ End Year	* No Data
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Longnose Skate Queen Charlotte Sound [LNOSESKA5AB]

TB*



SSB*



TN *



F*



ER*

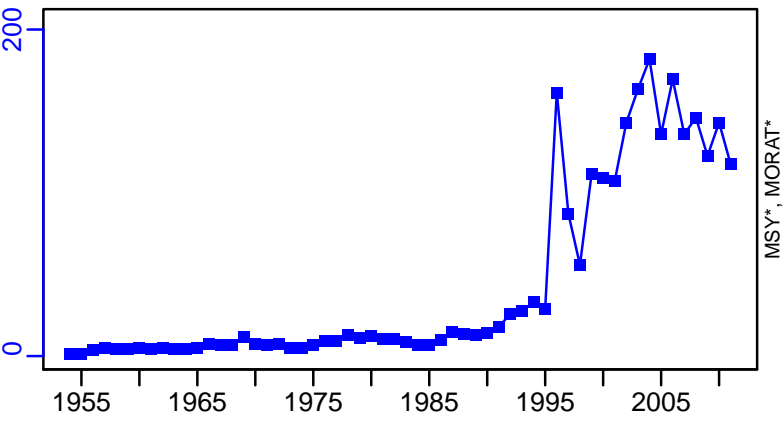


Recruits*



Longnose Skate Queen Charlotte Sound [LNOSESKA5AB]

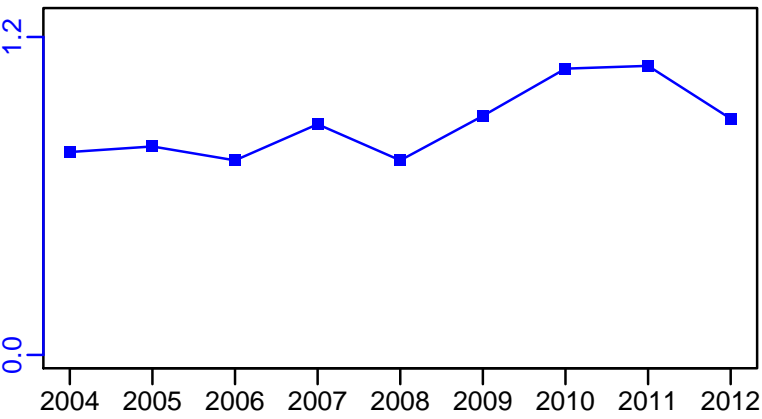
TC-MT, TL*, RecC* (1954-2012-OSGOOD)



TAC*, Cpair*, Cadv*



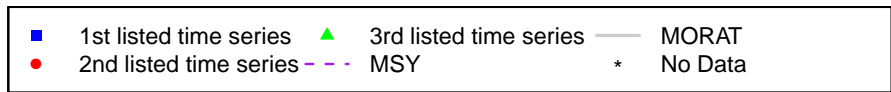
survB-fishperE02hooks (1954-2012-OSGOOD)



CPUE*



EFFORT*



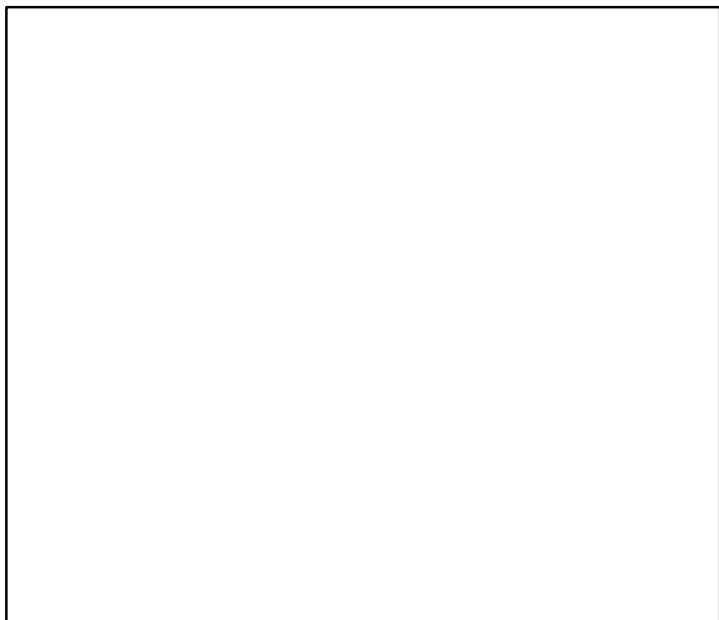
Longnose skate Hecate Strait [LNOSESKA5CDE]

Metadata	
Scientific Name	Raja rhina
Current Assess ID	DFO-PAC-LNOSESKA5CDE-1954-2011-OSGOOD
Area	Hecate Strait
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Pacific Region
Asmts in RAM	2011

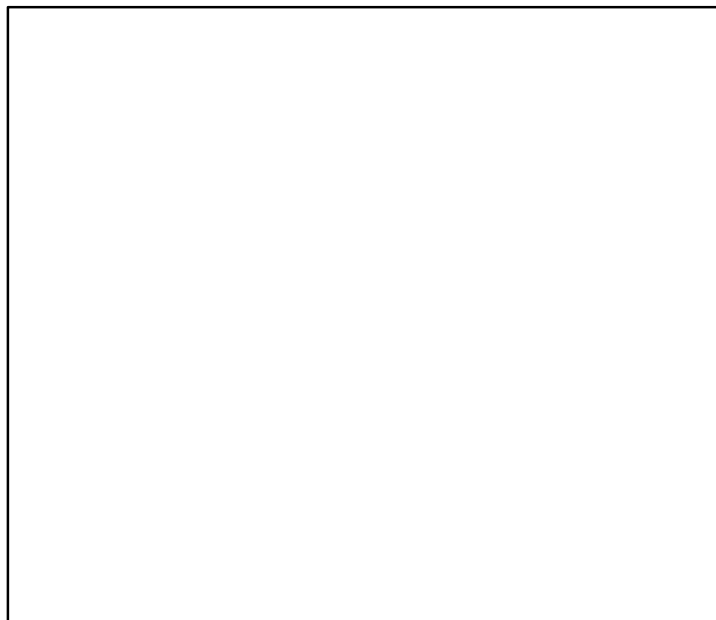
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2011	73		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Longnose skate Hecate Strait [LNOSESKA5CDE]

TB*



SSB*



TN *



F*



ER*

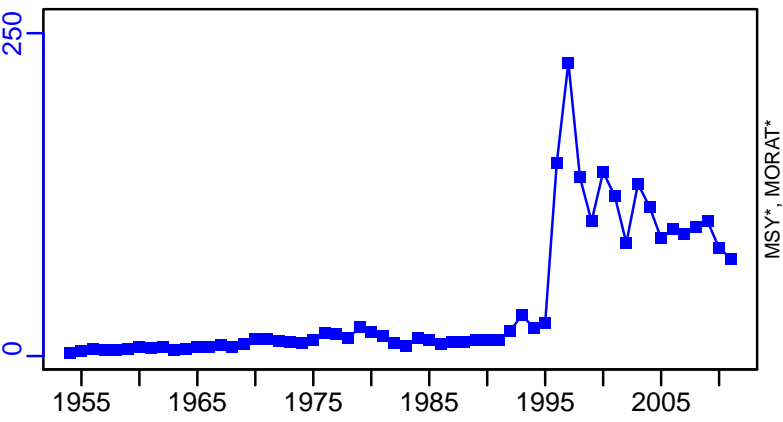


Recruits*



Longnose skate Hecate Strait [LNOSESKA5CDE]

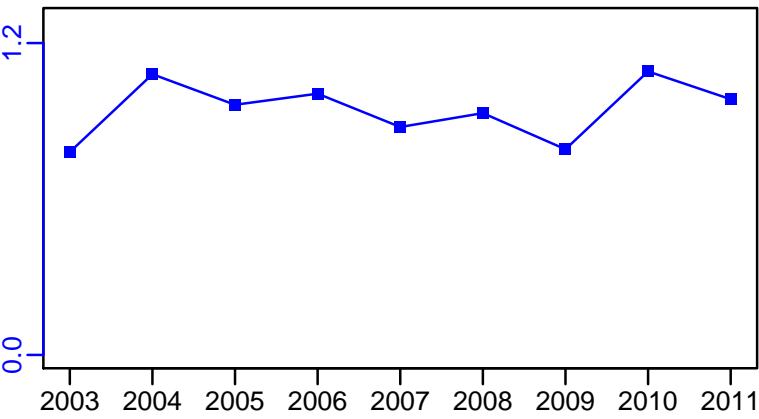
TC-MT, TL*, RecC* (1954-2011-OSGOOD)



TAC*, Cpair*, Cadv*



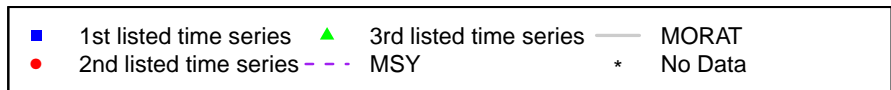
survB-fishperE02hooks (1954-2011-OSGOOD)



CPUE*



EFFORT*



Northern shrimp SMA 14 [PANDALSMA14]

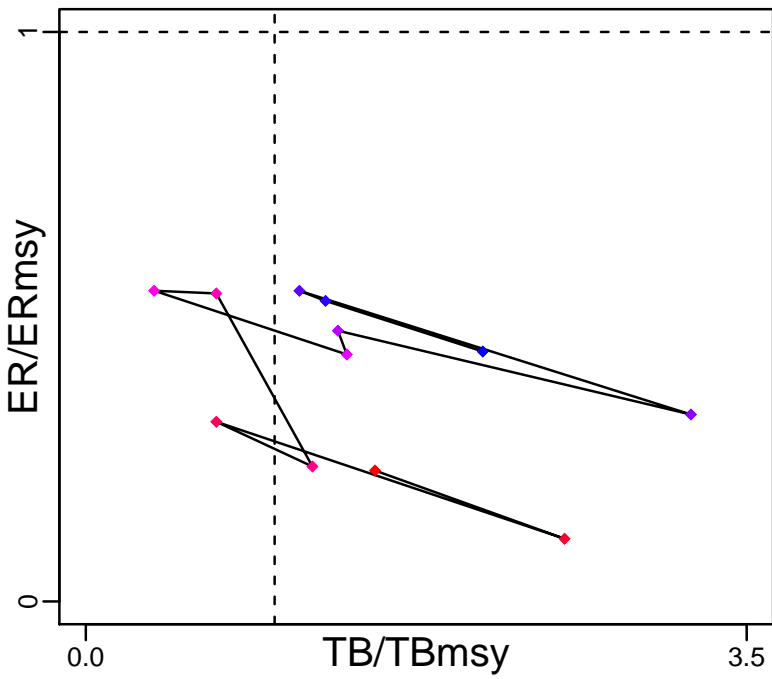
Metadata	
Scientific Name	Pandalus borealis
Current Assess ID	DFO-PANDALSMA14-1987-2011-WATSON
Area	Shrimp Management Area 14
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans
Asmts in RAM	2011

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2011	275
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-est-ratio	2011	0.62
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2011	170
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

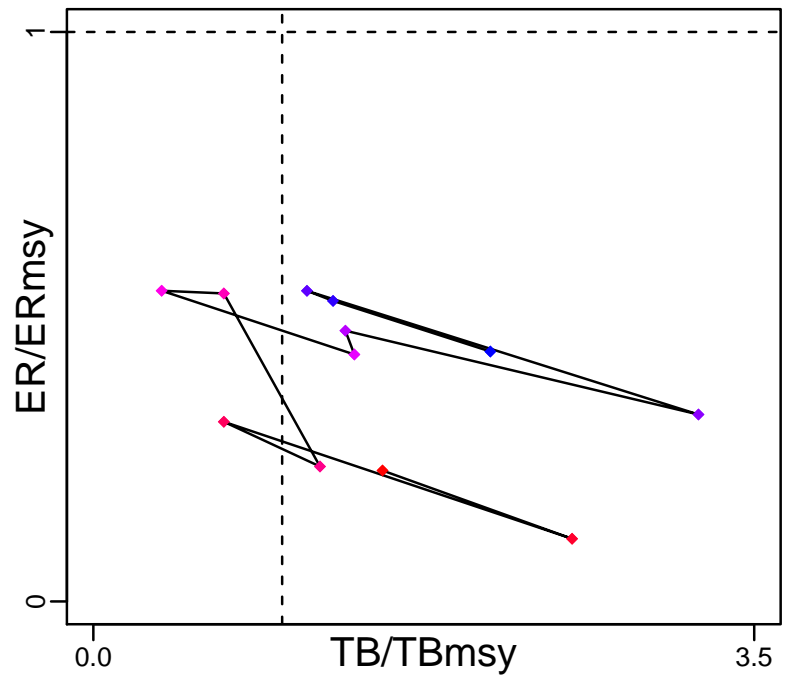
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2011	130	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2011	0	-	-
TC	-	-	-	-	-
TL	TL-MT	2011	59.9	-	-
TB/TBmsy	TB-MT/TBmsy-est-MT	2011	0.47	-	-
SSB/SSBmsy	-	-	-	-	-
F/Fmsy	-	-	-	-	-
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2011	0.23	-	-
TB/TBmgt	-	-	-	-	-
SSB/SSBmgt	-	-	-	-	-
F/Fmgt	-	-	-	-	-
ER/ERmgt	-	-	-	-	-

Northern shrimp SMA 14 [PANDALSMA14]

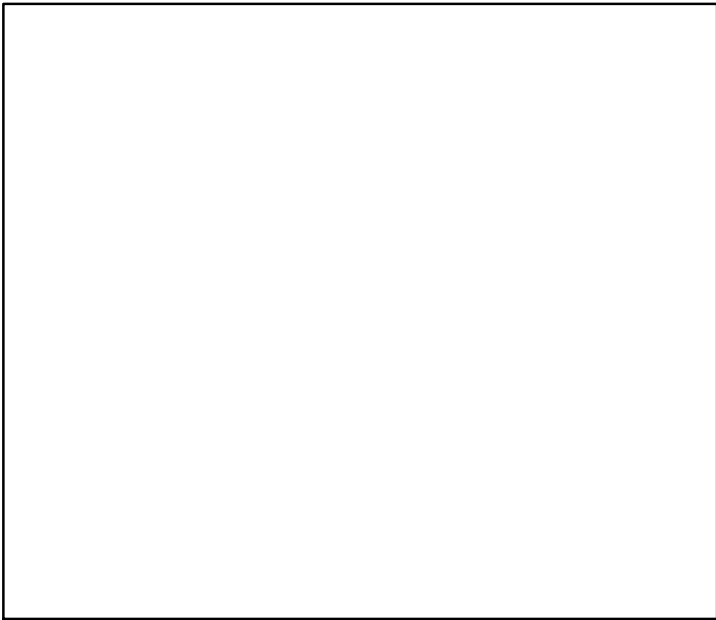
Kobe MSYpref (1987–2011–WATSON)



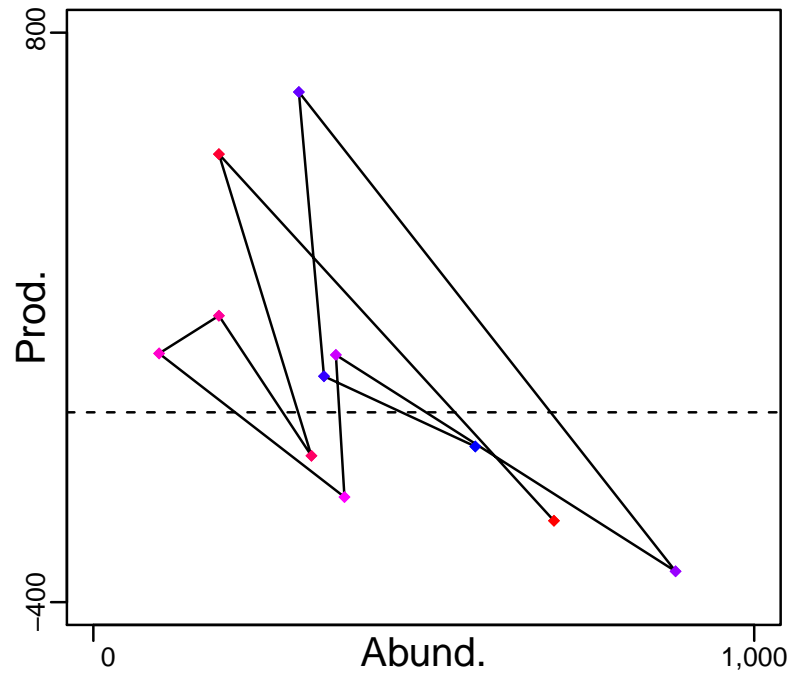
Kobe MGTpref (1987–2011–WATSON)



Spawner Recruit*



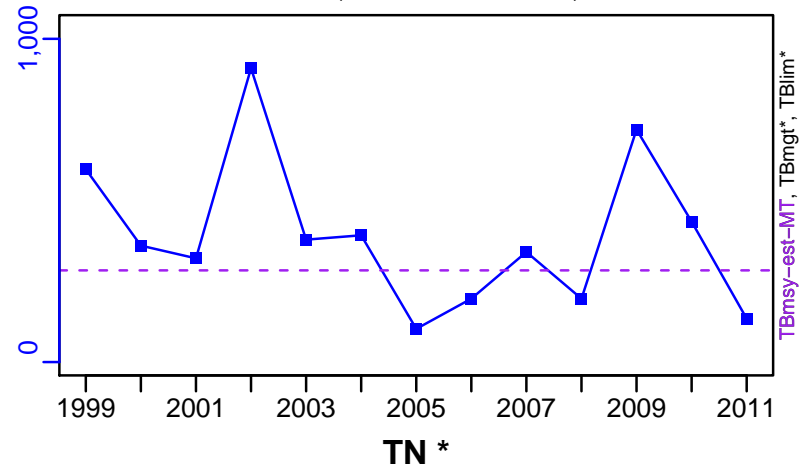
Production (1987–2011–WATSON)



◆ Start Year ◆ End Year * No Data

Northern shrimp SMA 14 [PANDALSMA14]

TB-MT (1987-2011-WATSON)



SSB*



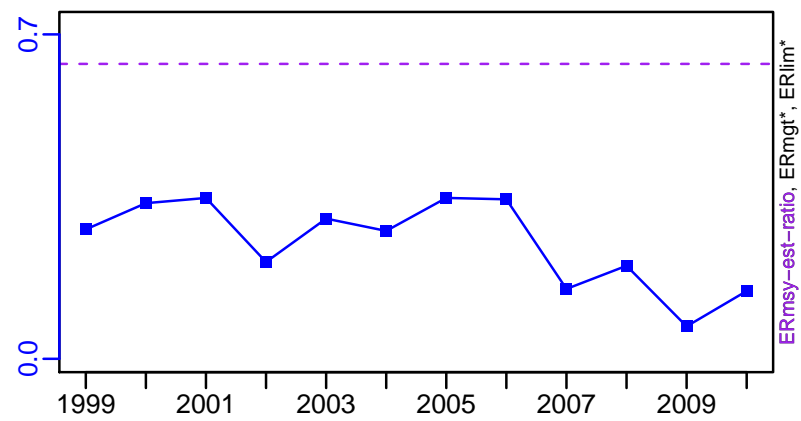
TN *



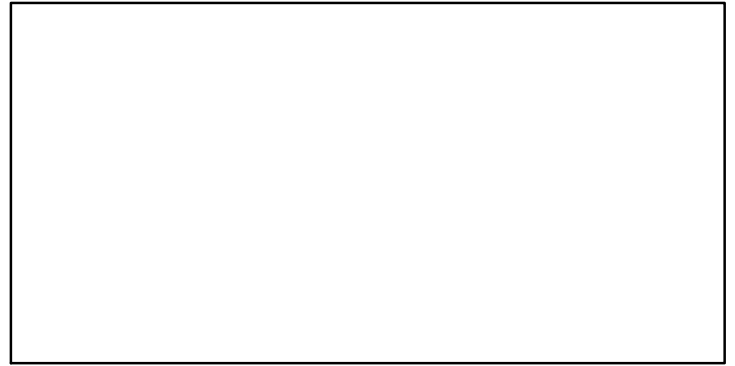
F*



ER-calc-ratio (1987-2011-WATSON)



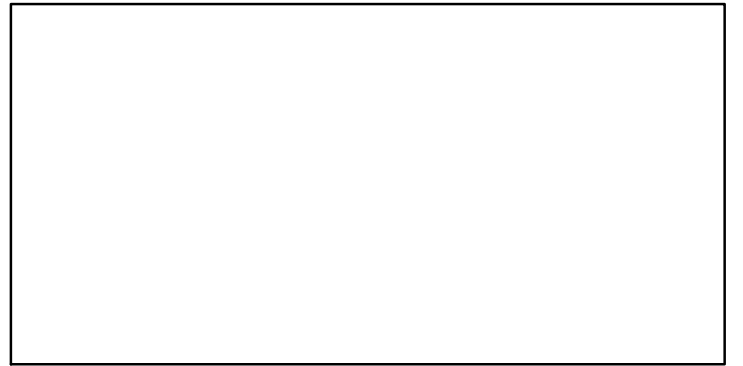
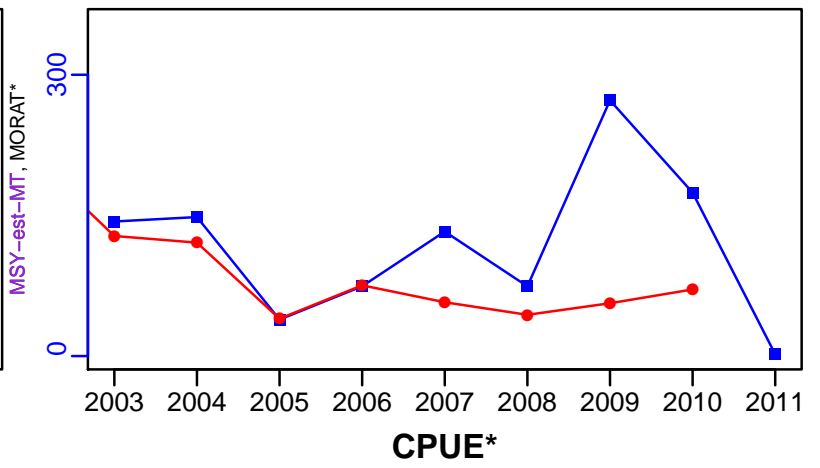
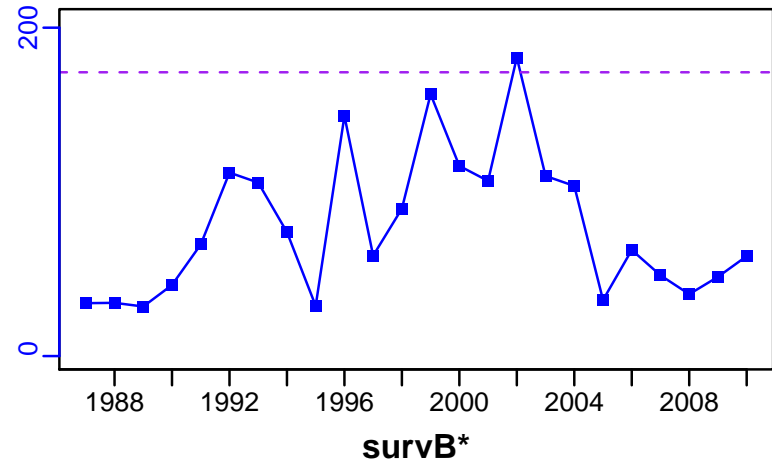
Recruits*



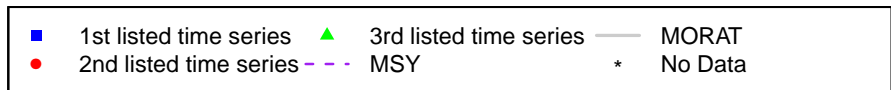
Northern shrimp SMA 14 [PANDALSMA14]

TL-MT, TC*, RecC* (1987-2011-WATSON)

TAC-MT, Cpair-MT, Cadv* (1987-2011-WATSON)



EFFORT*



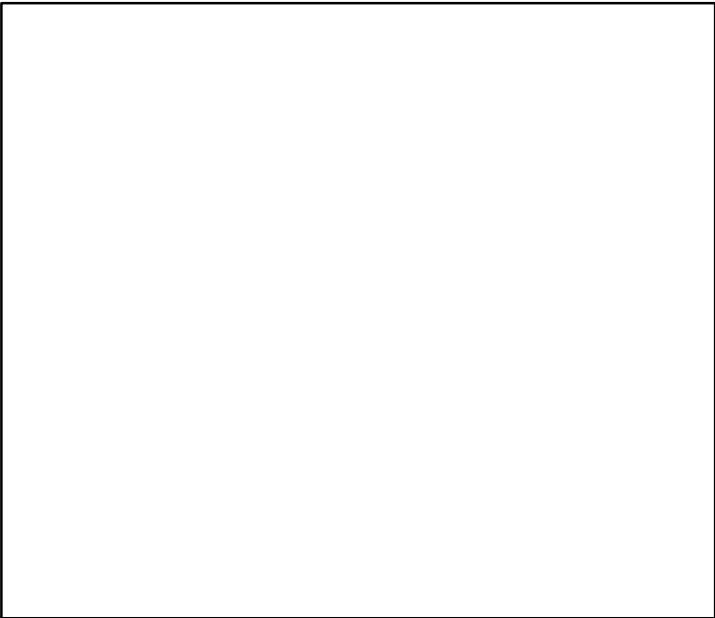
Northern shrimp SMA 16 [PANDALSMA16]

Metadata	
Scientific Name	Pandalus borealis
Current Assess ID	DFO-PANDALSMA16-1987-2011-WATSON
Area	Shrimp Management Area 16
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans
Asmts in RAM	2011

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2011	94	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2011	0	-	-
TC	-	-	-		
TL	TL-MT	2011	35.9		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

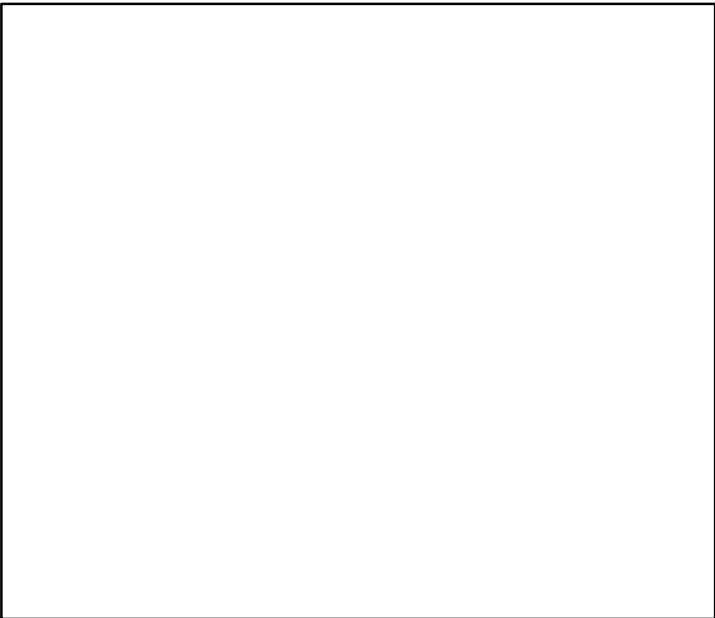
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*

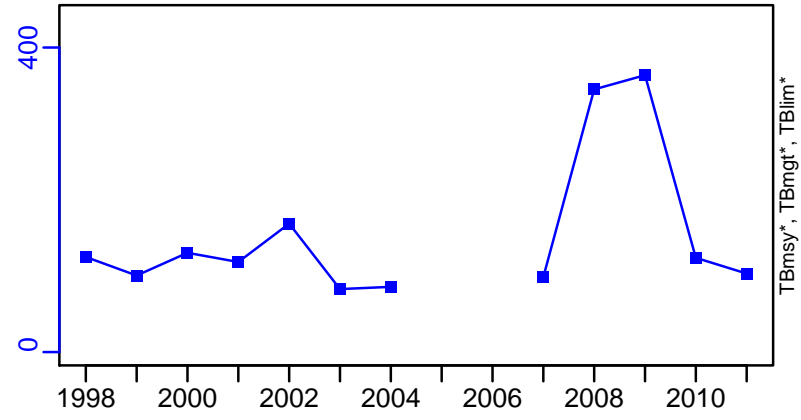


◆ Start Year ◆ End Year * No Data

Northern shrimp SMA 16 [PANDALSMA16]

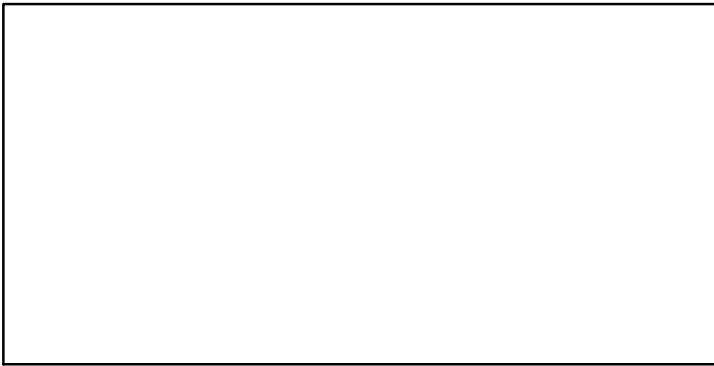
TB-MT (1987-2011-WATSON)

SSB*



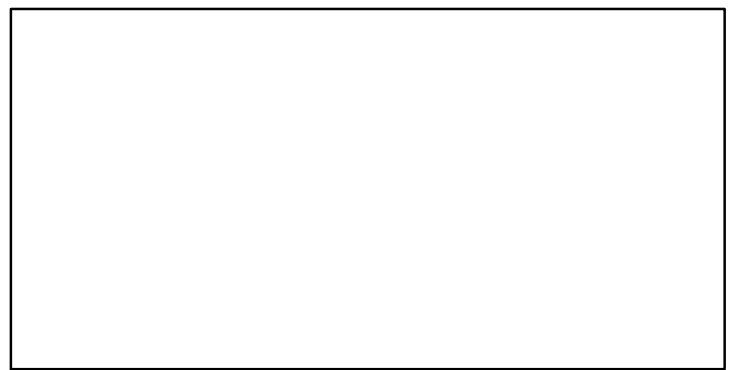
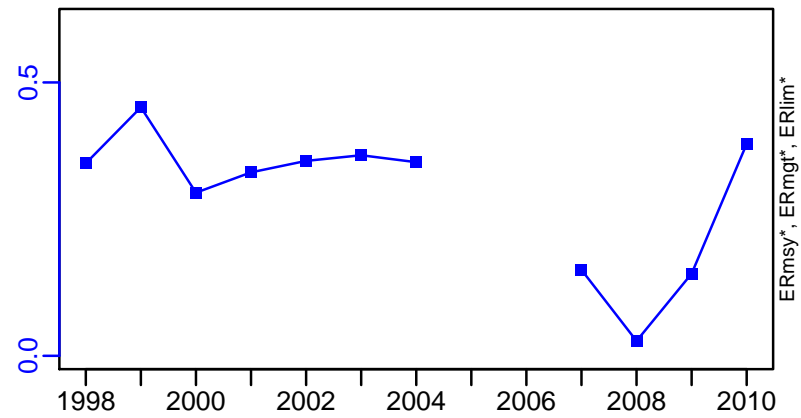
TN *

F*



ER-calc-ratio (1987-2011-WATSON)

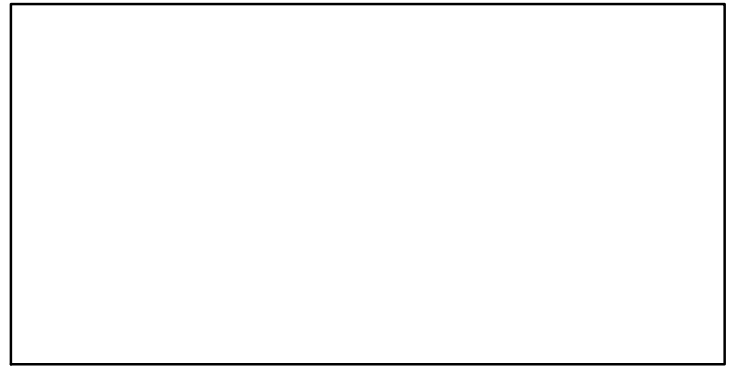
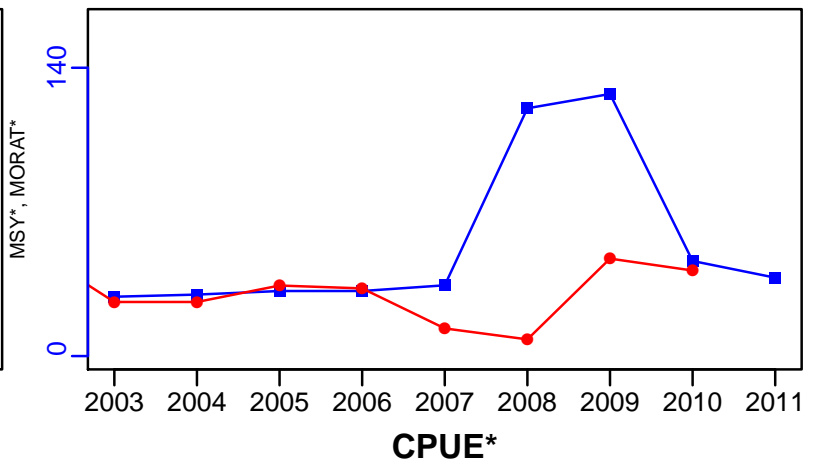
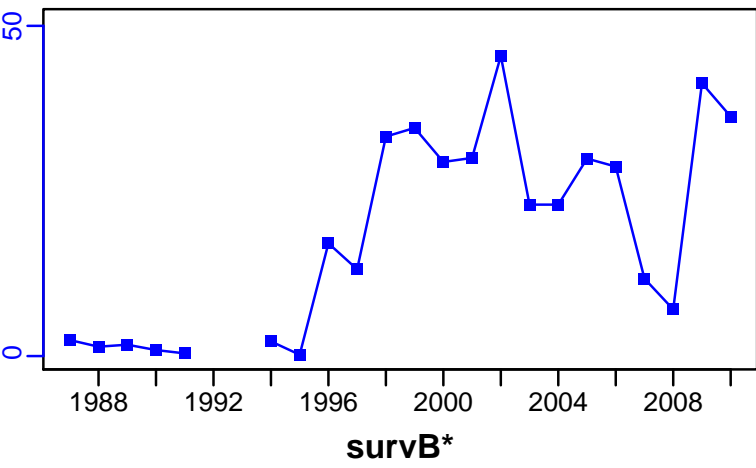
Recruits*



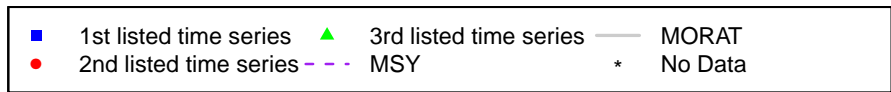
Northern shrimp SMA 16 [PANDALSMA16]

TL-MT, TC*, RecC* (1987-2011-WATSON)

TAC-MT, Cpair-MT, Cadv* (1987-2011-WATSON)



EFFORT*



Northern shrimp SMA 18-19 [PANDALSMA18-19]

Metadata	
Scientific Name	Pandalus borealis
Current Assess ID	DFO-PANDALSMA18-19-1987-2011-WATSON
Area	Shrimp Management Areas 18 and 19
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans
Asmts in RAM	2011

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



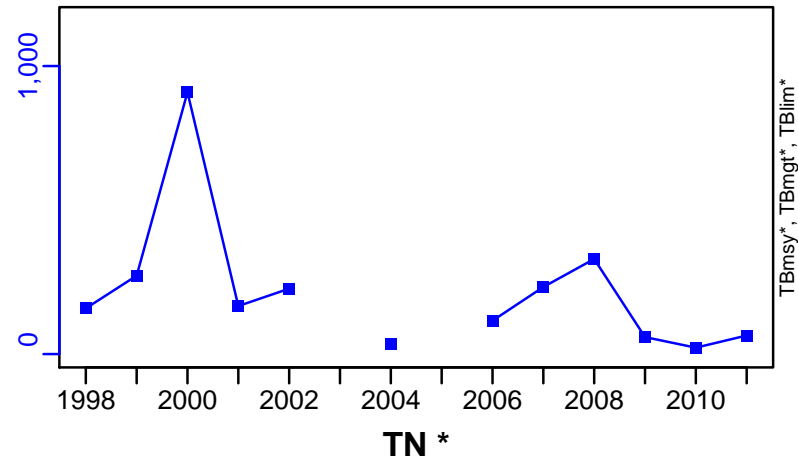
Production*



◆ Start Year ◆ End Year * No Data

Northern shrimp SMA 18–19 [PANDALSMA18–19]

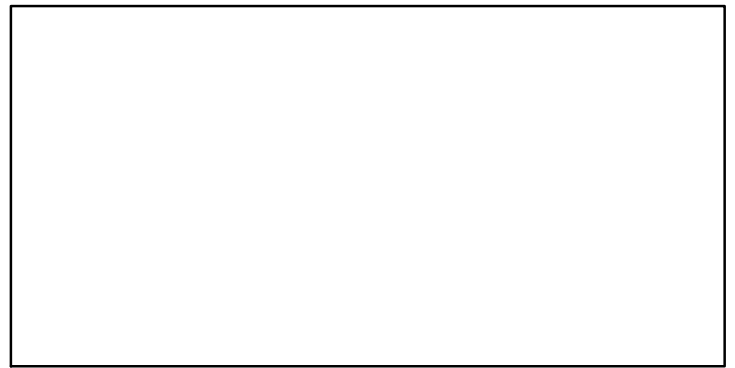
TB–MT (1987–2011–WATSON)



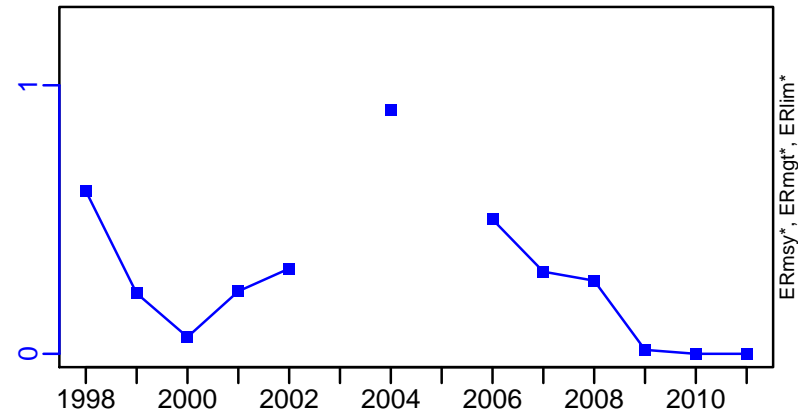
SSB*



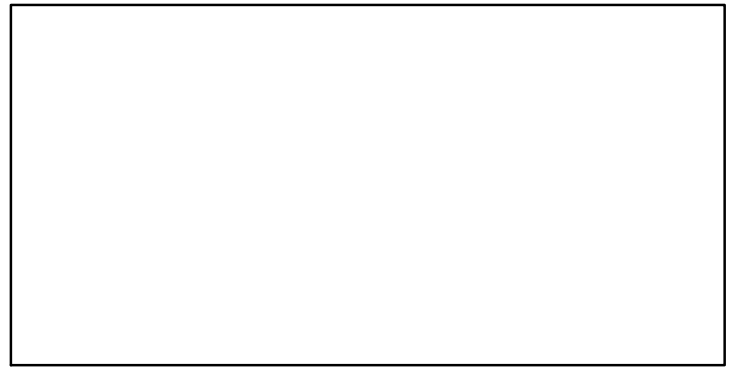
F*



ER–calc–ratio (1987–2011–WATSON)



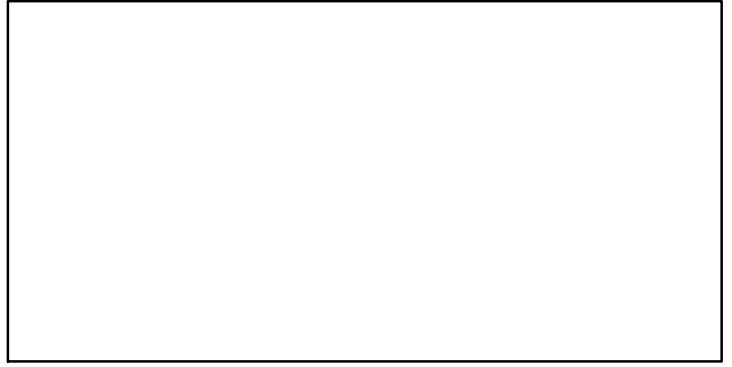
Recruits*



TC*, TL*, RecC*



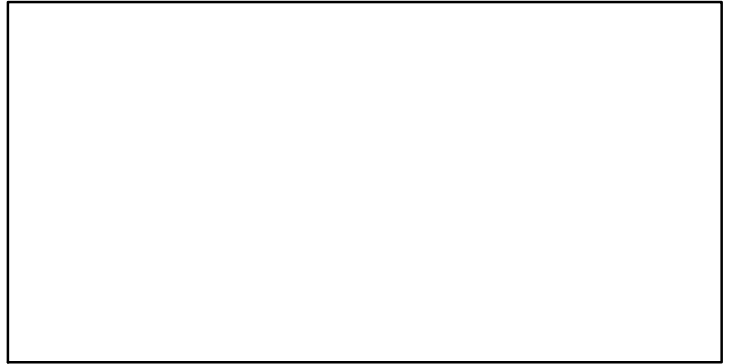
TAC*, Cpair*, Cadv*



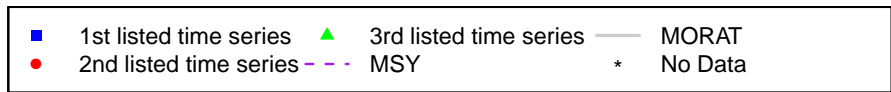
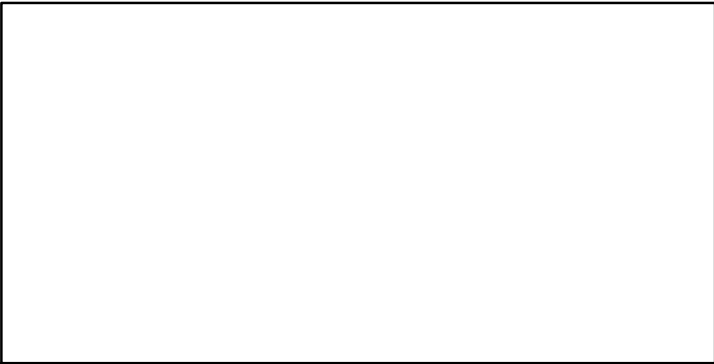
survB*



CPUE*



EFFORT*



Northern shrimp SMA FR [PANDALSMAFR]

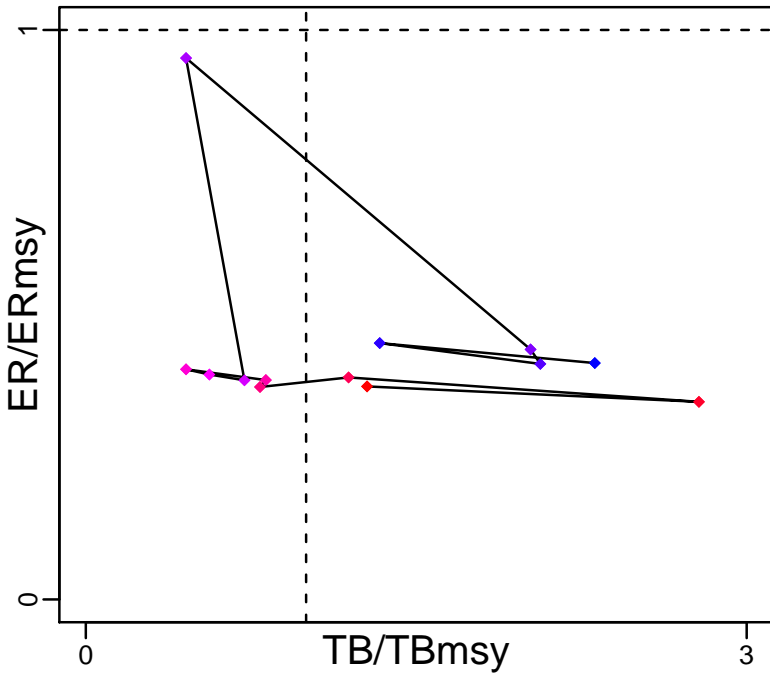
Metadata	
Scientific Name	Pandalus borealis
Current Assess ID	DFO-PANDALSMAFR-1987-2011-WATSON
Area	Shrimp Management Area FR
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans
Asmts in RAM	2011

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2011	226
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-est-ratio	2011	0.67
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2011	151
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

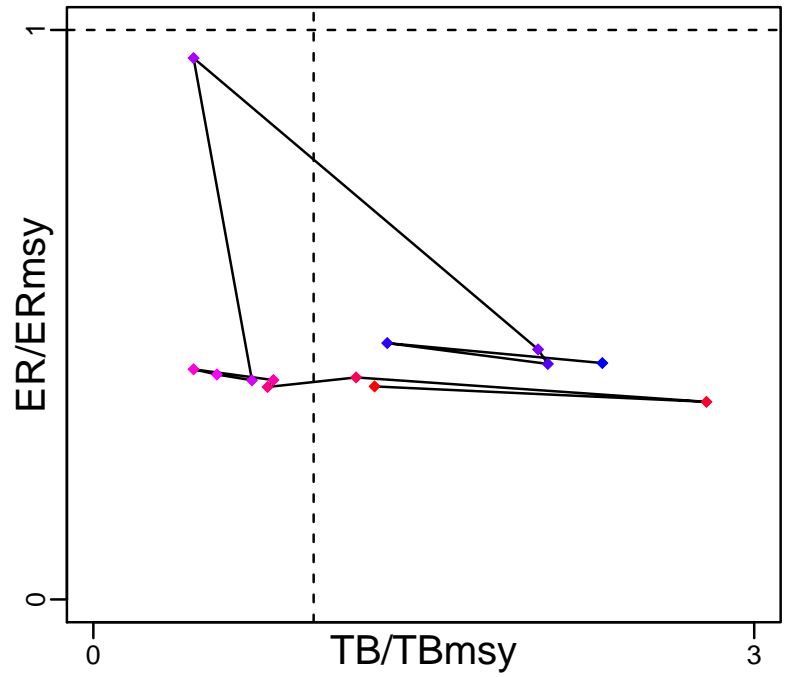
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2011	216	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2011	0	-	-
TC	-	-	-	-	-
TL	TL-MT	2011	72.2	-	-
TB/TBmsy	TB-MT/TBmsy-est-MT	2011	0.95	-	-
SSB/SSBmsy	-	-	-	-	-
F/Fmsy	-	-	-	-	-
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2011	0.37	-	-
TB/TBmgt	-	-	-	-	-
SSB/SSBmgt	-	-	-	-	-
F/Fmgt	-	-	-	-	-
ER/ERmgt	-	-	-	-	-

Northern shrimp SMA FR [PANDALSMAFR]

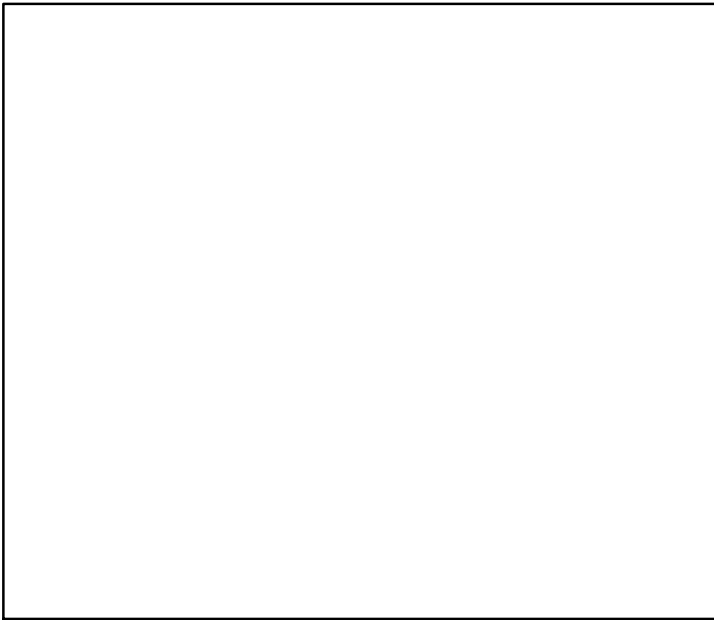
Kobe MSYpref (1987–2011–WATSON)



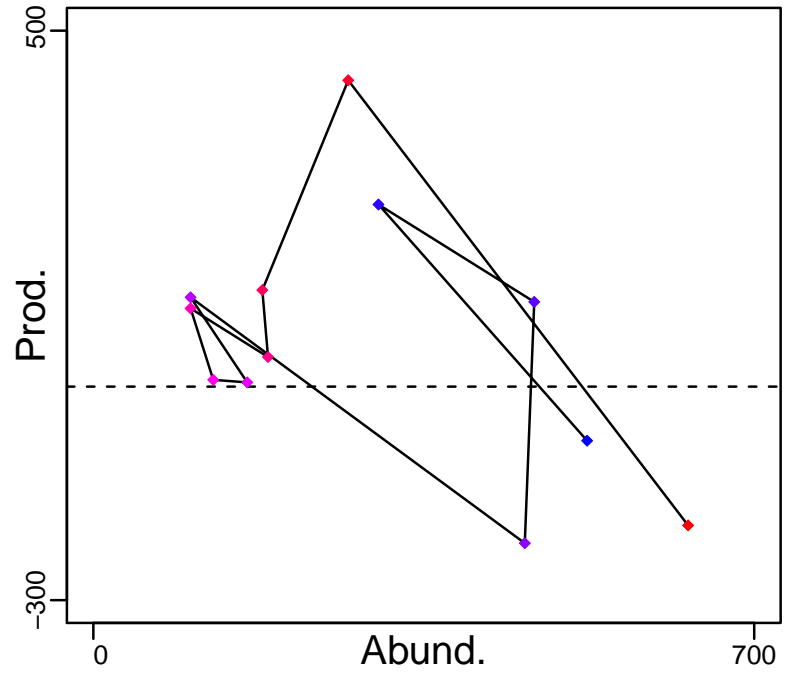
Kobe MGTpref (1987–2011–WATSON)



Spawner Recruit*



Production (1987–2011–WATSON)

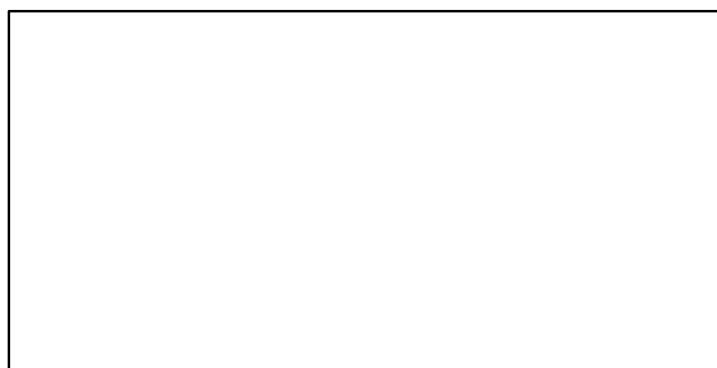
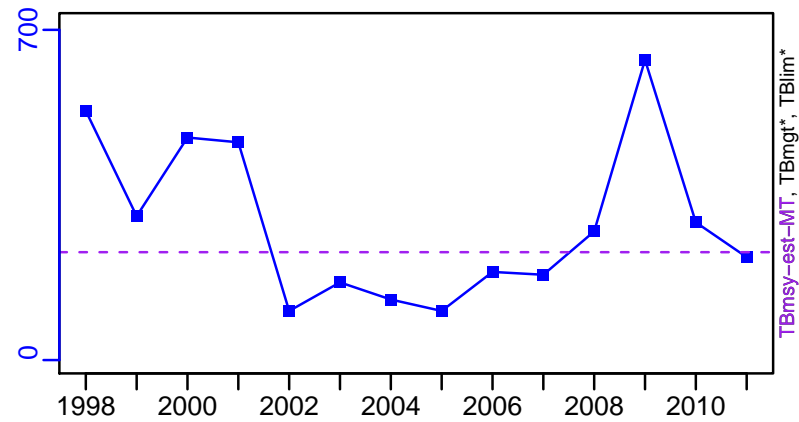


◆ Start Year ◆ End Year * No Data

Northern shrimp SMA FR [PANDALSMAFR]

TB-MT (1987-2011-WATSON)

SSB*



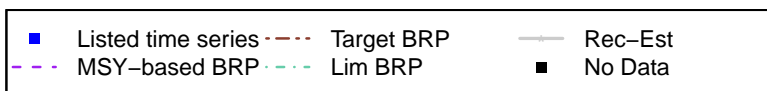
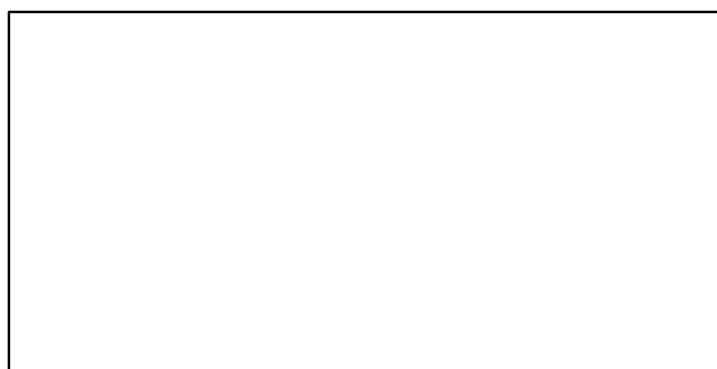
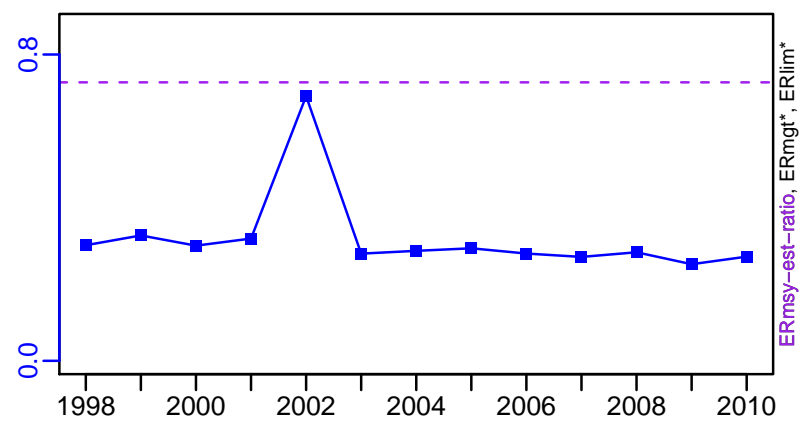
TN *

F*



ER-calc-ratio (1987-2011-WATSON)

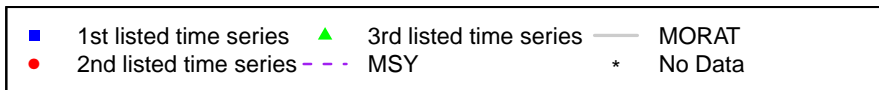
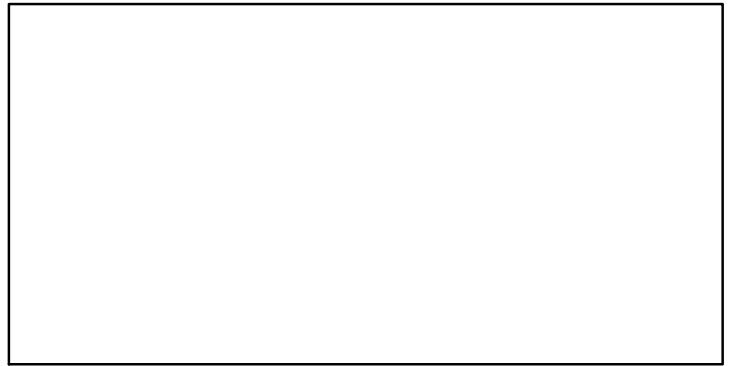
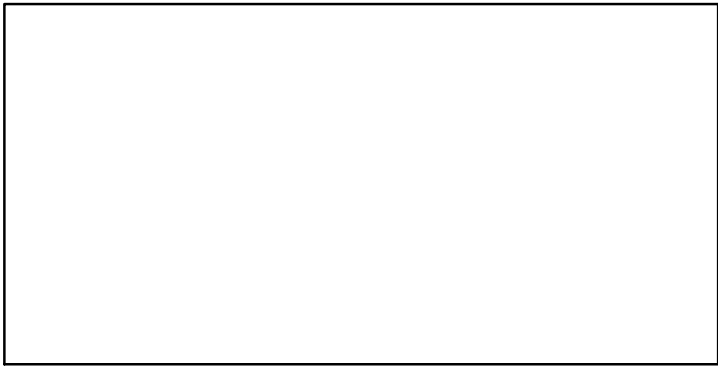
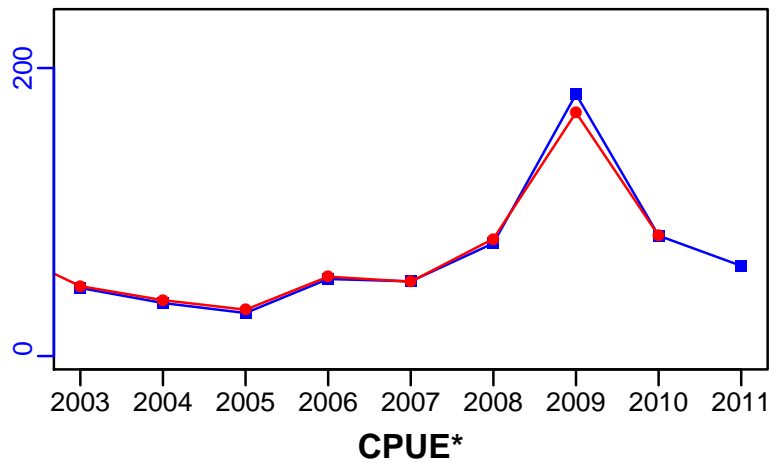
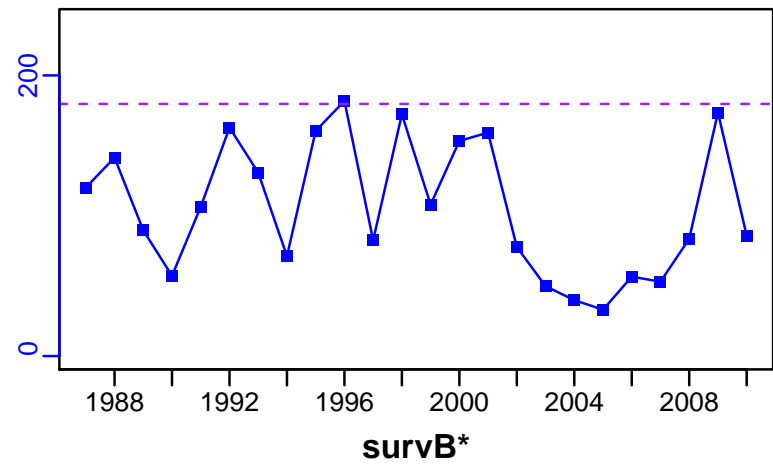
Recruits*



Northern shrimp SMA FR [PANDALSMAFR]

TL-MT, TC*, RecC* (1987-2011-WATSON)

TAC-MT, Cpair-MT, Cadv* (1987-2011-WATSON)



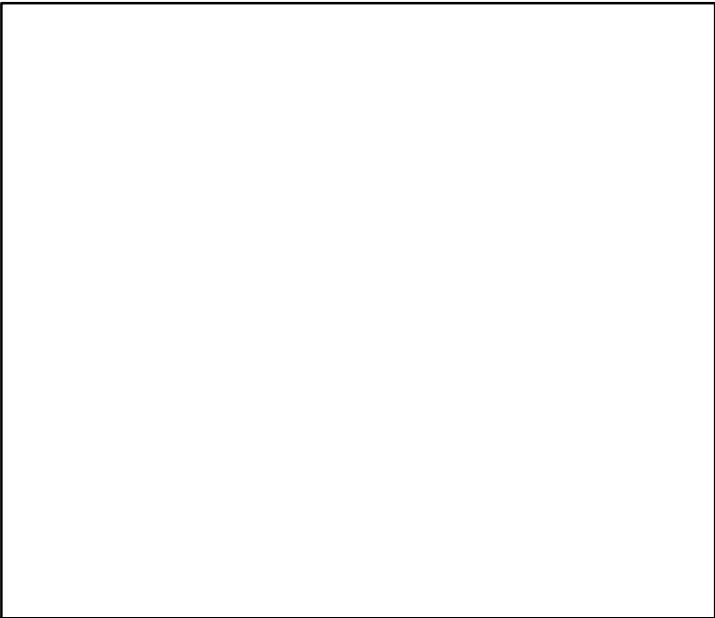
Northern shrimp SMA GTSE [PANDALSMAGTSE]

Metadata	
Scientific Name	Pandalus borealis
Current Assess ID	DFO-PANDALSMAGTSE-1990-2012-WATSON
Area	Shrimp Management Area GTSE
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans
Asmts in RAM	2012

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2012	243	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2012	0	-	-
TC	-	-	-		
TL	TL-MT	2012	55.2		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

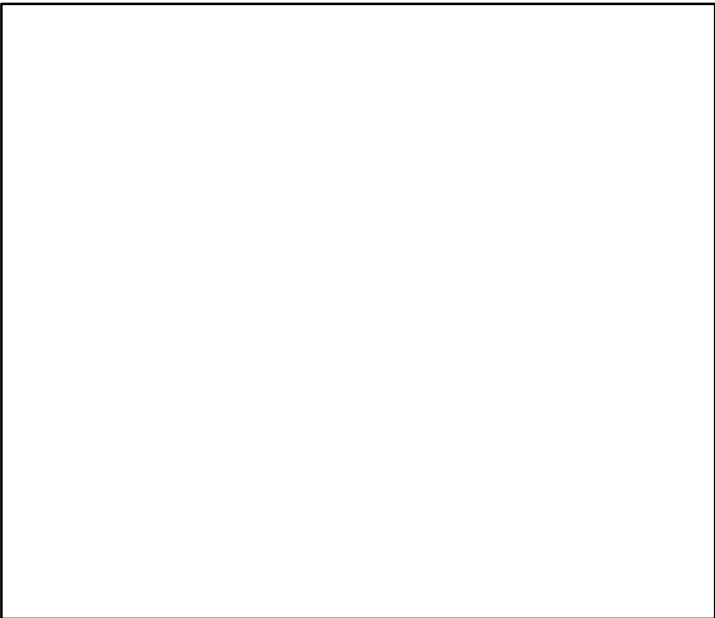
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*

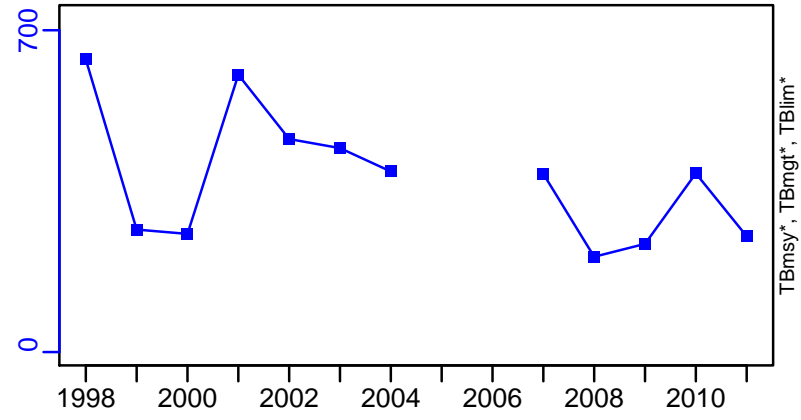


◆ Start Year ◆ End Year * No Data

Northern shrimp SMA GTSE [PANDALSMAGTSE]

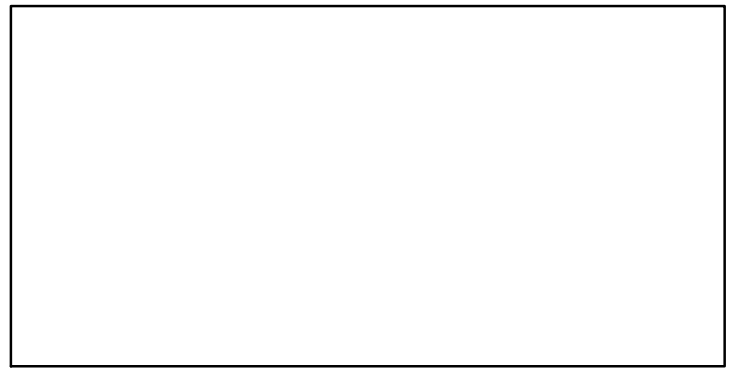
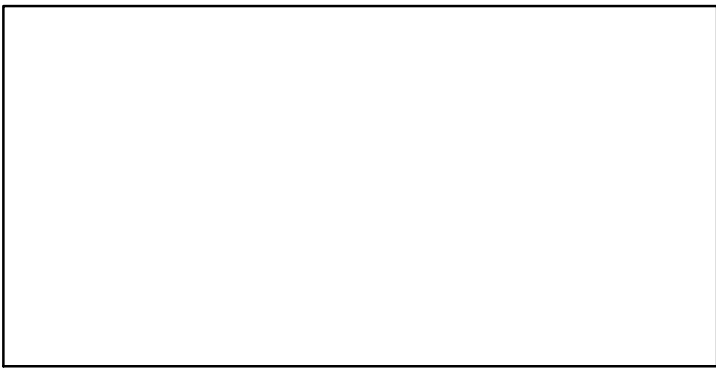
TB-MT (1990-2012-WATSON)

SSB*



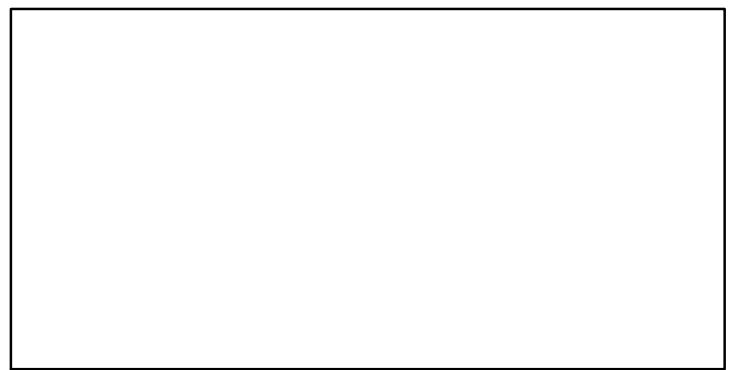
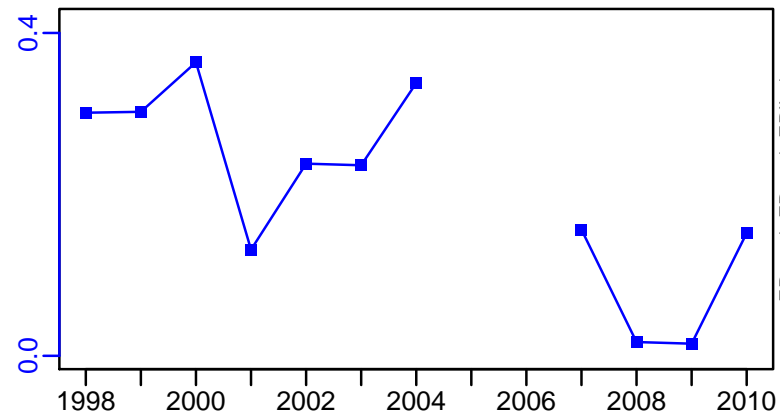
TN *

F*



ER-calc-ratio (1990-2012-WATSON)

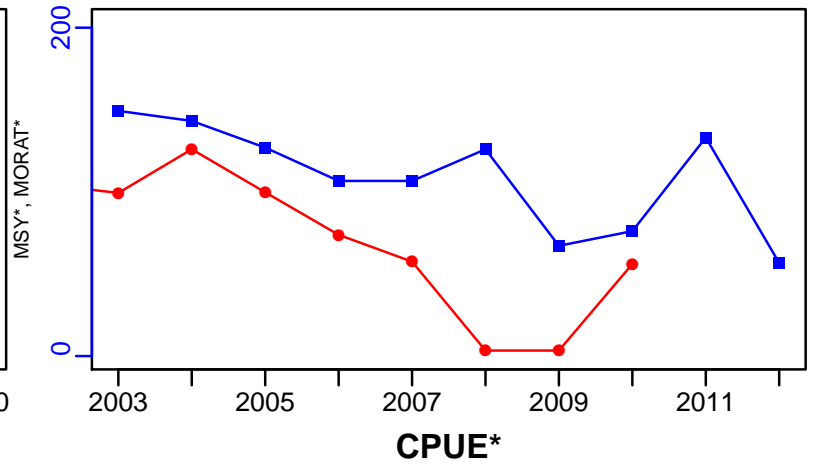
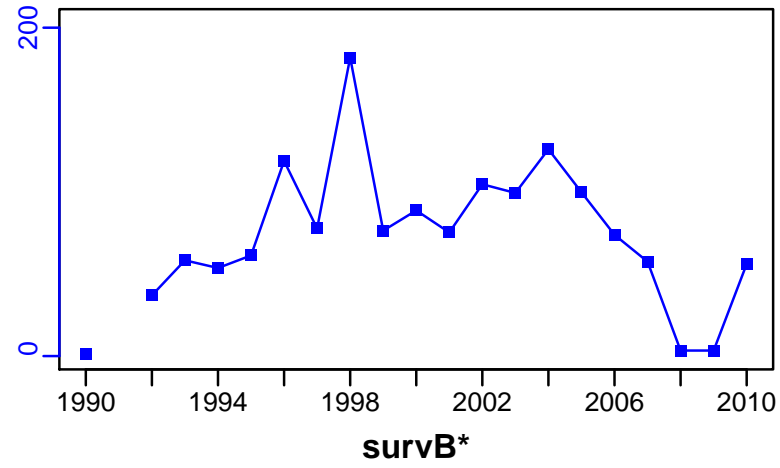
Recruits*



Northern shrimp SMA GTSE [PANDALSMAGTSE]

TL-MT, TC*, RecC* (1990-2012-WATSON)

TAC-MT, Cpair-MT, Cadv* (1990-2012-WATSON)



EFFORT*



Northern shrimp SMA PRD [PANDALSMAPRD]

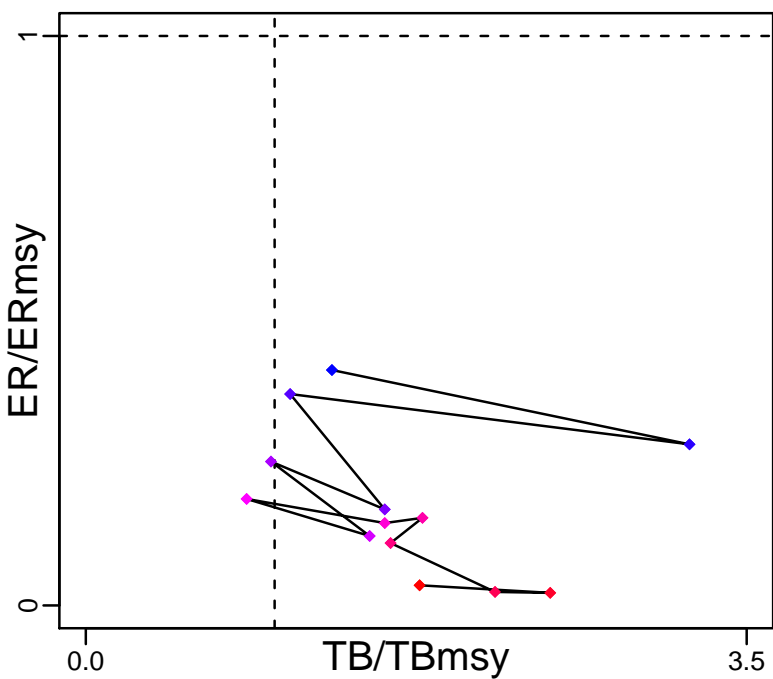
Metadata	
Scientific Name	Pandalus borealis
Current Assess ID	DFO-PANDALSMAPRD-1987-2011-WATSON
Area	Shrimp Management Area PRD
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans
Asmts in RAM	2011

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2011	651
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-est-ratio	2011	0.64
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2011	416
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

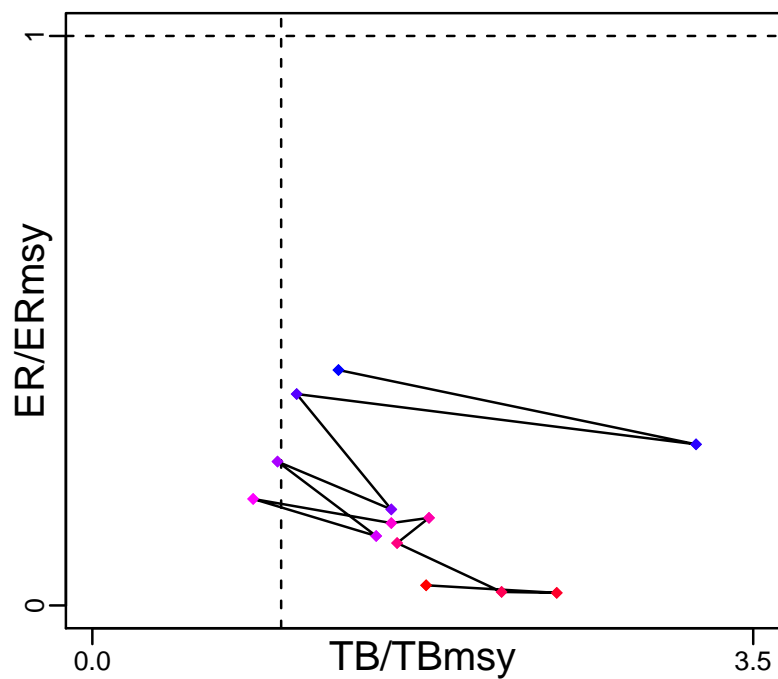
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2011	1210	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2011	0	-	-
TC	-	-	-		
TL	TL-MT	2011	26		
TB/TBmsy	TB-MT/TBmsy-est-MT	2011	1.86		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2011	0.04		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Northern shrimp SMA PRD [PANDALSMAPRD]

Kobe MSY_{pref} (1987–2011–WATSON)



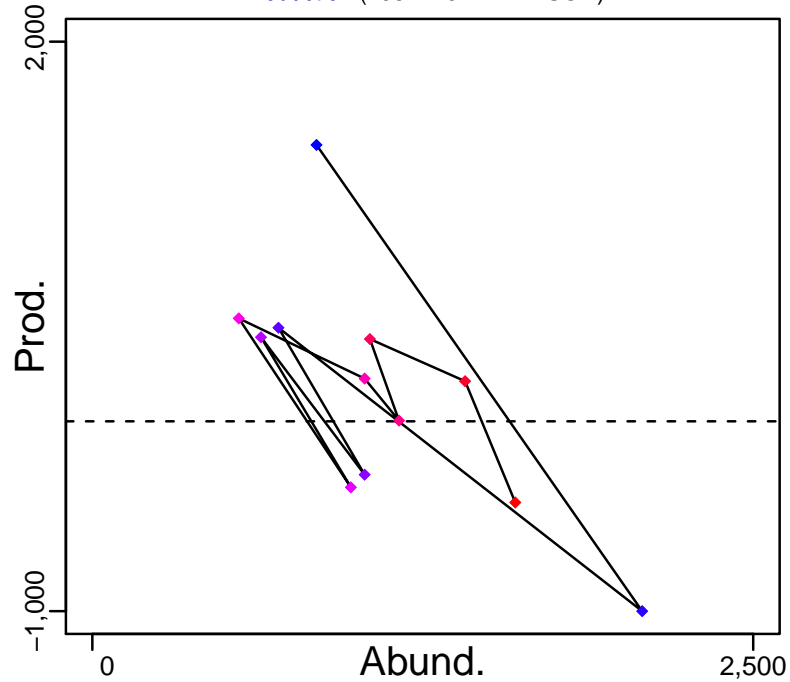
Kobe MGT_{pref} (1987–2011–WATSON)



Spawner Recruit*



Production (1987–2011–WATSON)

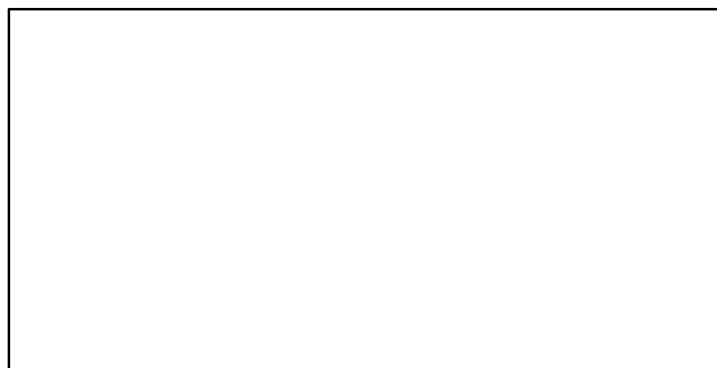
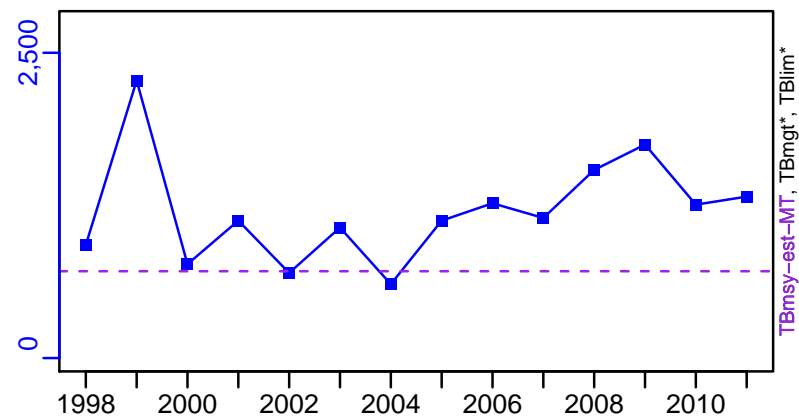


◆ Start Year ◆ End Year * No Data

Northern shrimp SMA PRD [PANDALSMAPRD]

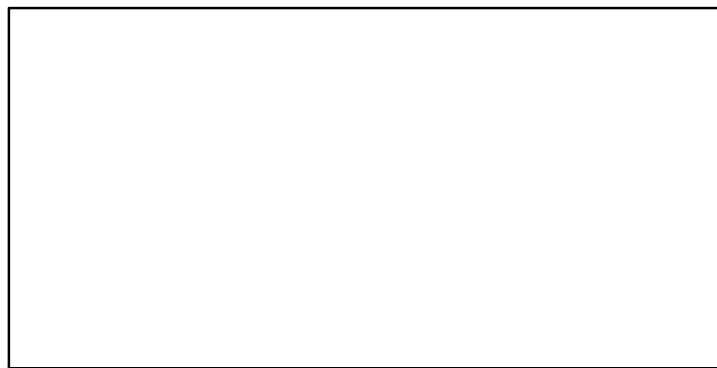
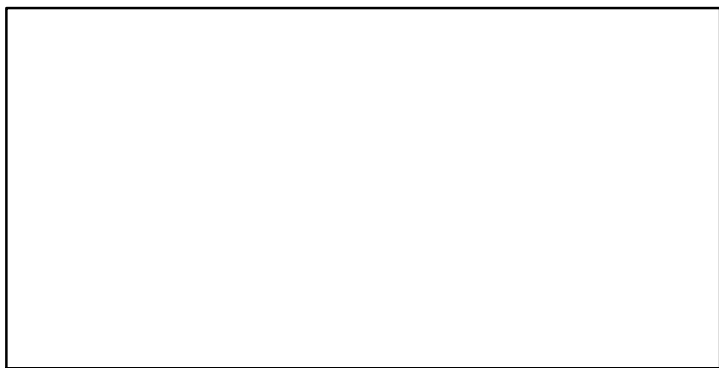
TB-MT (1987-2011-WATSON)

SSB*



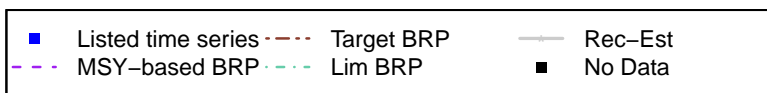
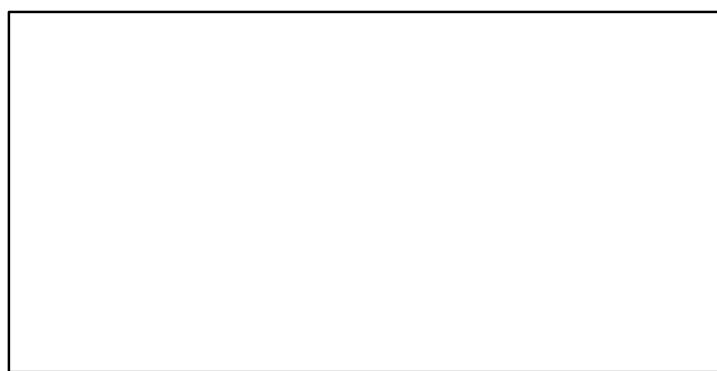
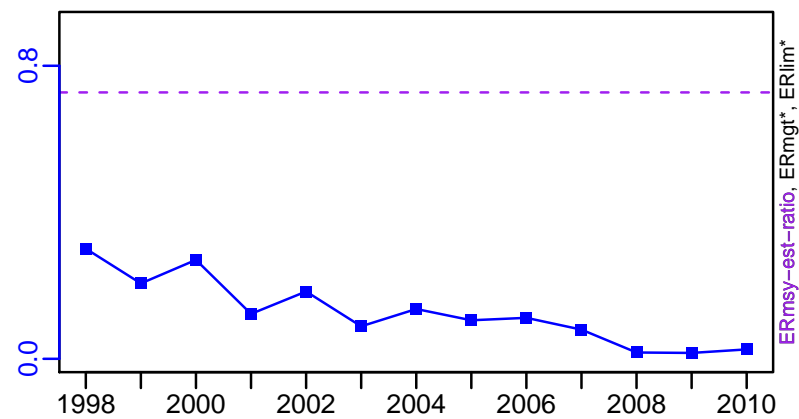
TN *

F*



ER-calc-ratio (1987-2011-WATSON)

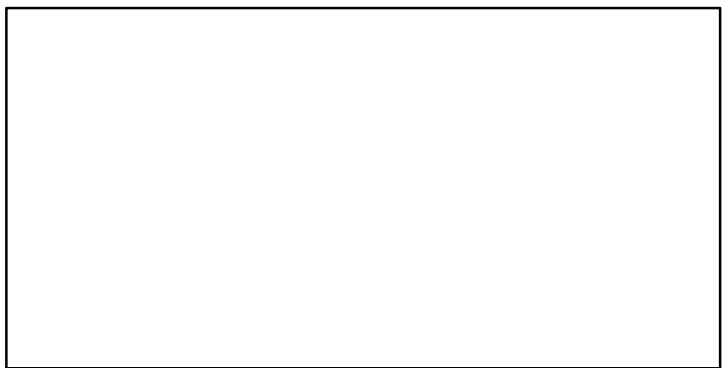
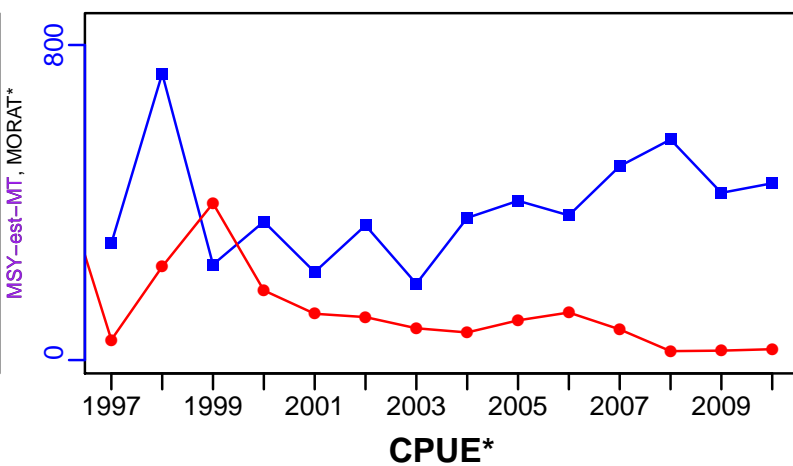
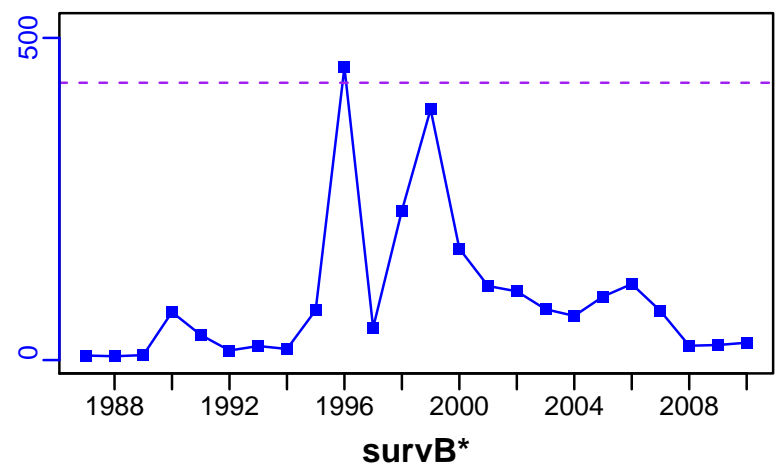
Recruits*



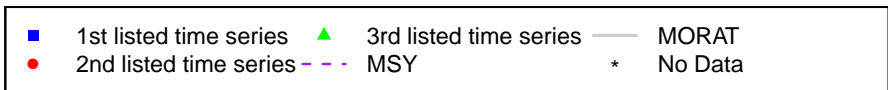
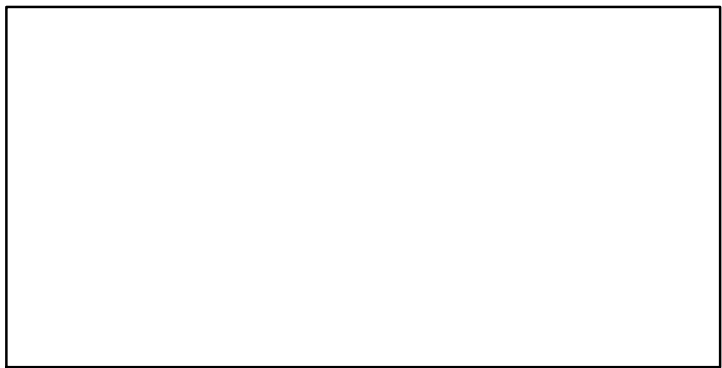
Northern shrimp SMA PRD [PANDALSMAPRD]

TL-MT, TC*, RecC* (1987-2011-WATSON)

TAC-MT, Cpair-MT, Cadv* (1987-2011-WATSON)



EFFORT*



Pacific cod Queen Charlotte Sound [PCOD5AB]

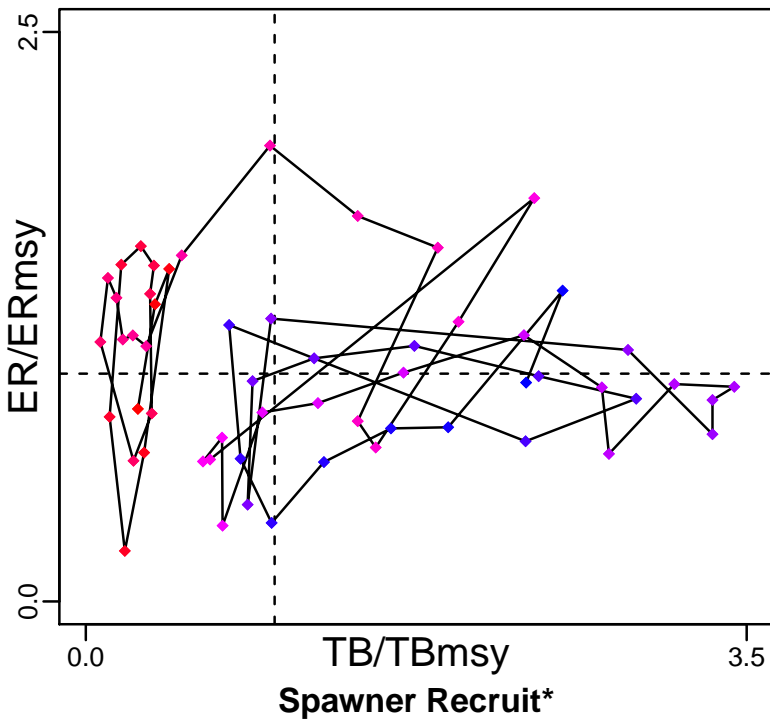
Metadata	
Scientific Name	Gadus macrocephalus
Current Assess ID	DFO-PAC-PCOD5AB-1945-2014-OSGOOD
Area	Queen Charlotte Sound
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Pacific Region
Asmts in RAM	2014

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-conv-ratio	2014	0.22
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	TB0-MT	2014	9416
SSB0	-	-	-
MSY	MSY-MT	2014	763
M	M-1/yr	2014	0.43
TBlim	-	-	-
SSBlim	-	-	-
Flim	Flim-1/yr	2014	0.21
ERlim	-	-	-

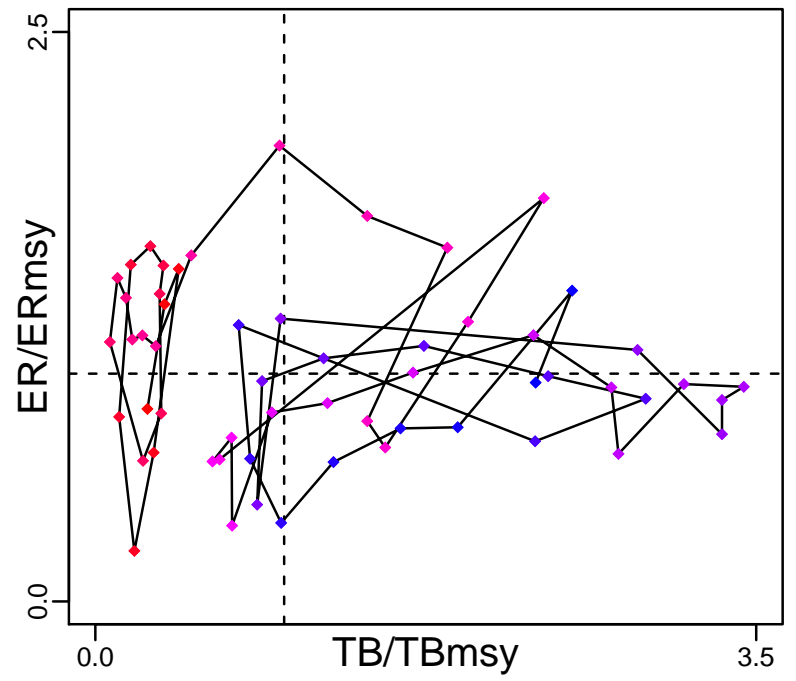
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2014	1340	Both	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	R-E00	2014	459,000	Both	-
F	F-1/yr	2014	0	-	-
ER	ER-calc-ratio	2014	0	-	-
TC	TC-MT	2014	178		
TL	-	-	-		
TB/TBmsy	TB-MT/TB0-MT	2014	0.39		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-conv-ratio	2014	0.85		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Pacific cod Queen Charlotte Sound [PCOD5AB]

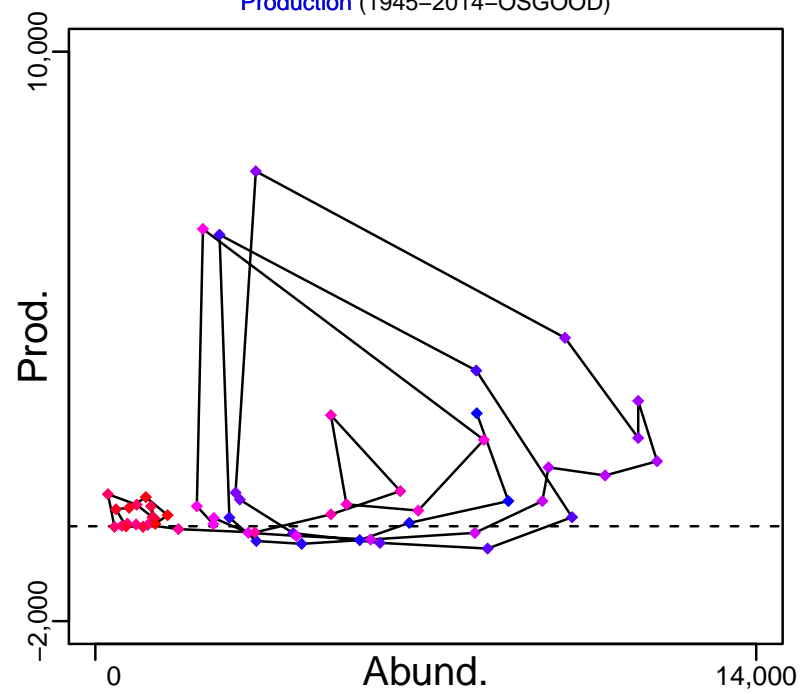
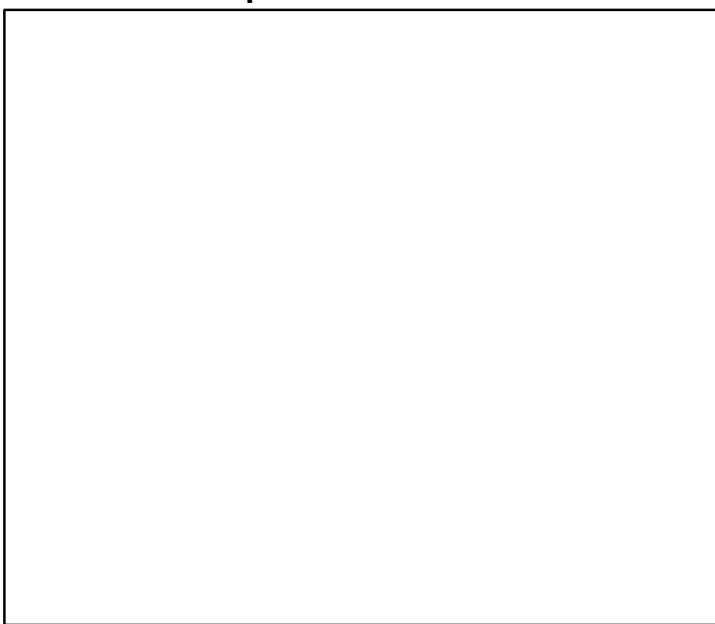
Kobe MSYpref (1945–2014–OSGOOD)



Kobe MGTpref (1945–2014–OSGOOD)



Production (1945–2014–OSGOOD)

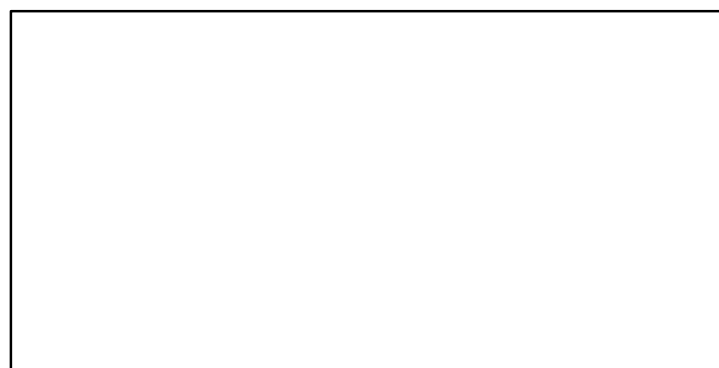
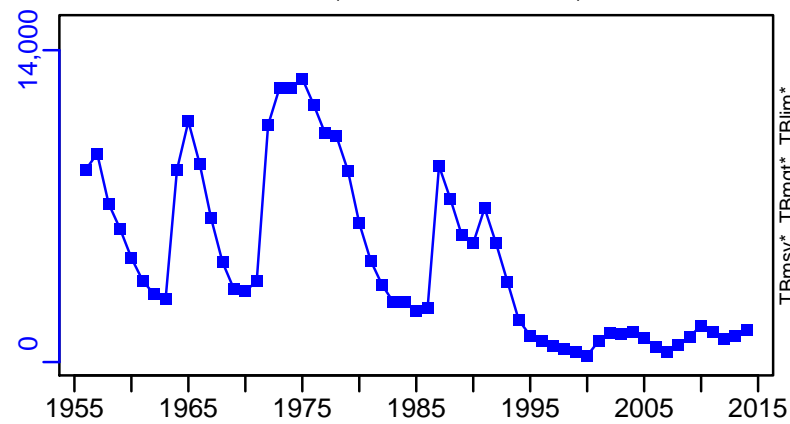


◆ Start Year ◆ End Year * No Data

Pacific cod Queen Charlotte Sound [PCOD5AB]

TB-MT (1945-2014-OSGOOD)

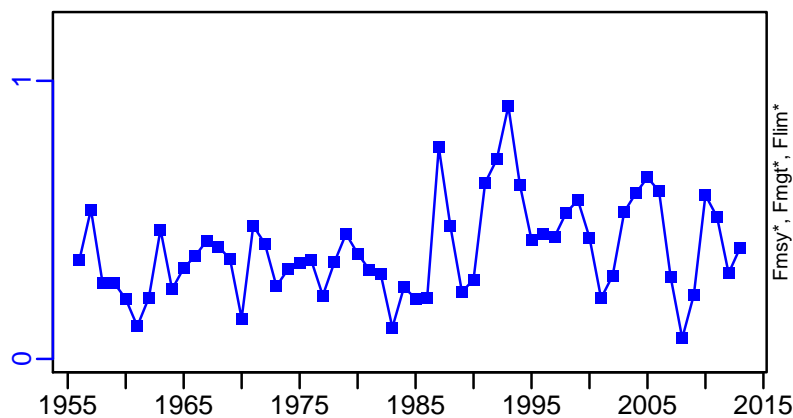
SSB*



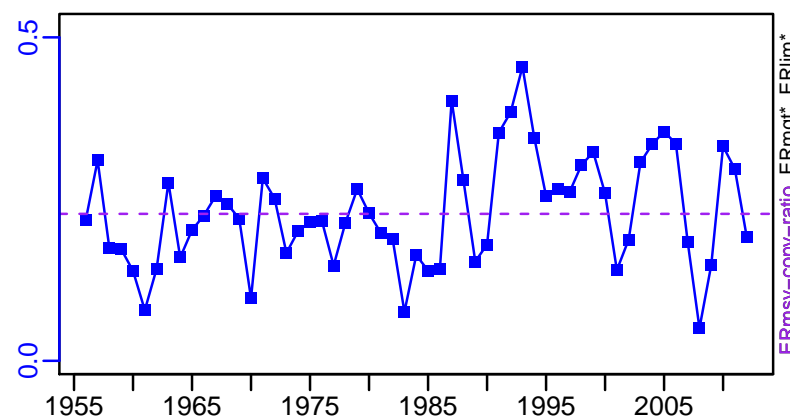
TN *



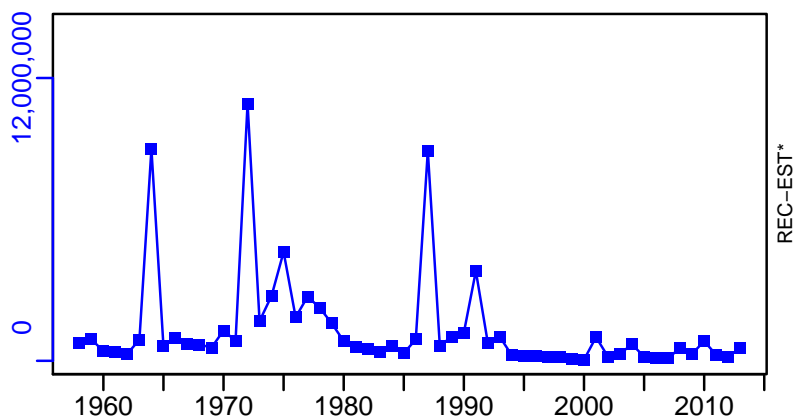
F-1/yr (1945-2014-OSGOOD)



ER-calc-ratio (1945-2014-OSGOOD)

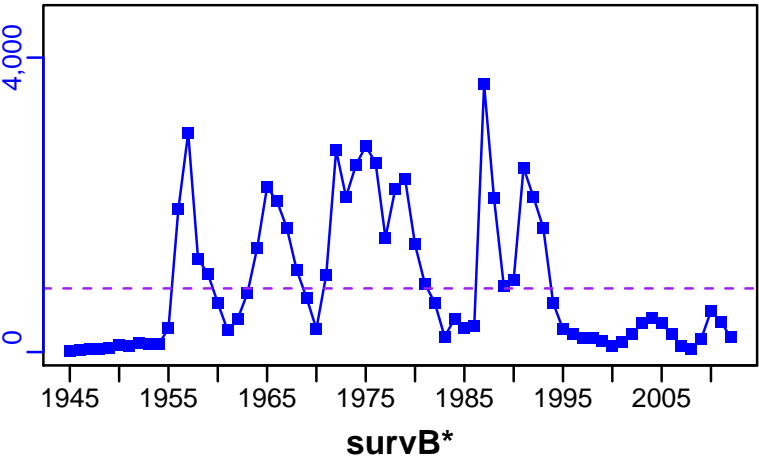


R-E00 (1945-2014-OSGOOD)

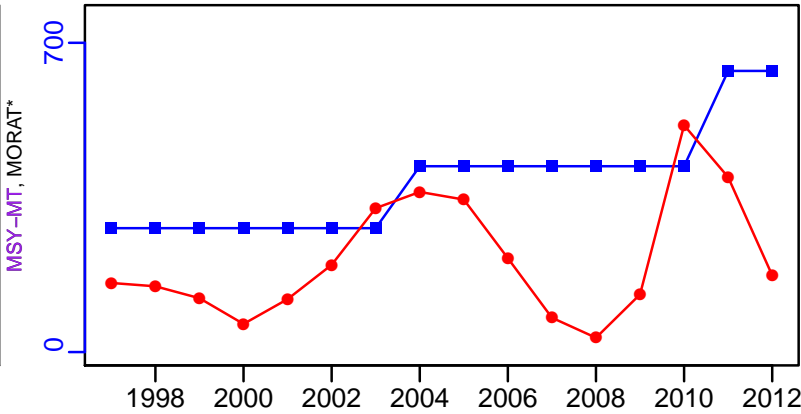


Pacific cod Queen Charlotte Sound [PCOD5AB]

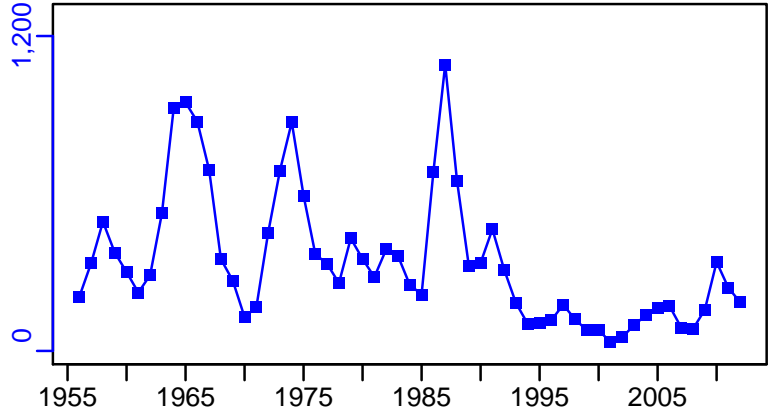
TC-MT, TL*, RecC* (1945-2014-OSGOOD)



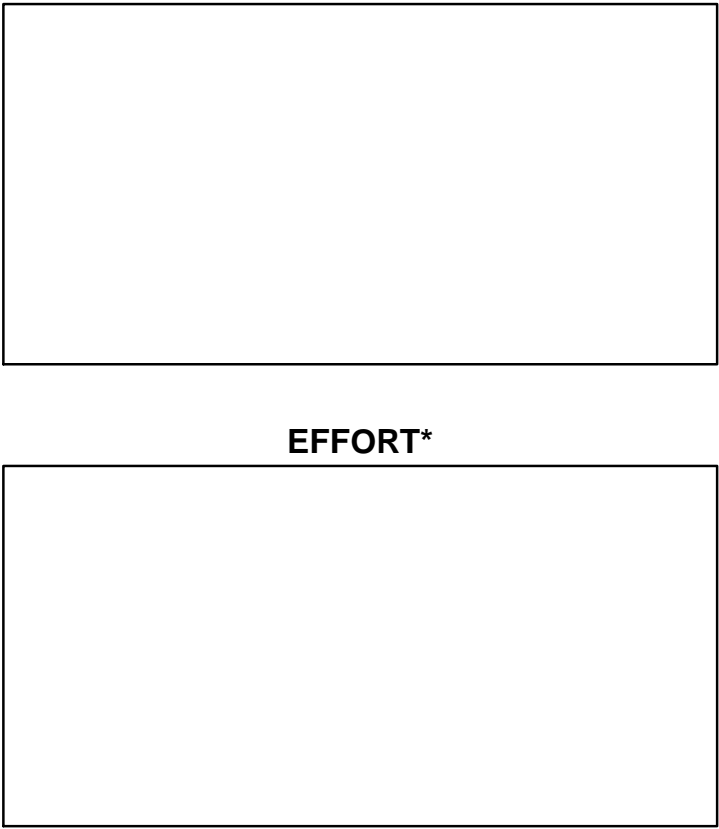
TAC-MT, Cpair-MT, Cadv* (1945-2014-OSGOOD)



CPUE-kg/hour (1945-2014-OSGOOD)



EFFORT*



Pacific cod Hecate Strait [PCODHS]

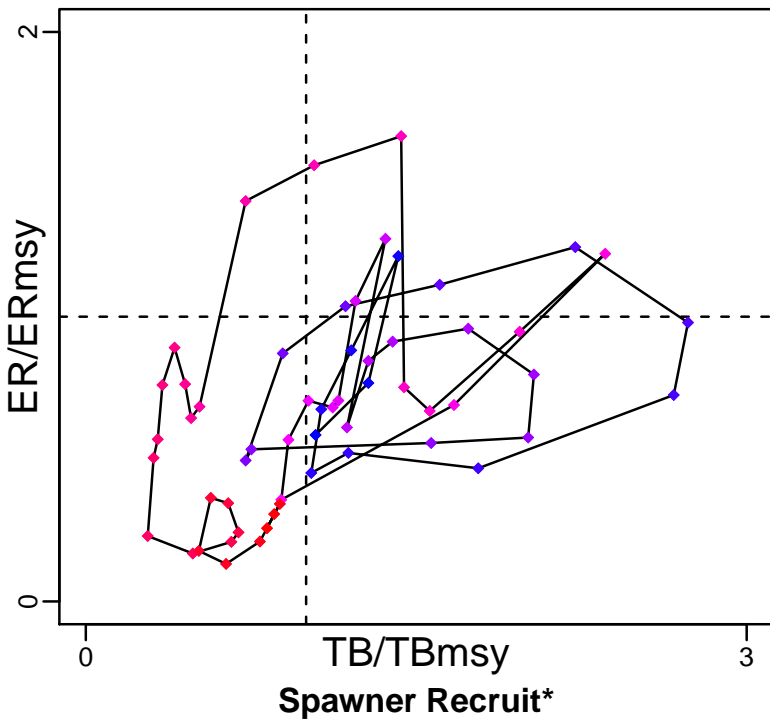
Metadata	
Scientific Name	Gadus macrocephalus
Current Assess ID	DFO-PAC-PCODHS-1944-2014-OSGOOD
Area	Hecate Strait
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Pacific Region
Asmts in RAM	2014, 2005

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2005	8861
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2005	0.35
ERmsy	ERmsy-conv-ratio	2014	0.21
TBmgt	TBmgt-MT	2014	19,258
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	TB0-MT	2014	41,949
SSB0	-	-	-
MSY	MSY-MT	2014	3313
M	M-1/yr	2014	0.39
TBlim	TBlim-MT	2014	12,182
SSBlim	-	-	-
Flim	Flim-1/yr	2014	0.22
ERlim	-	-	-

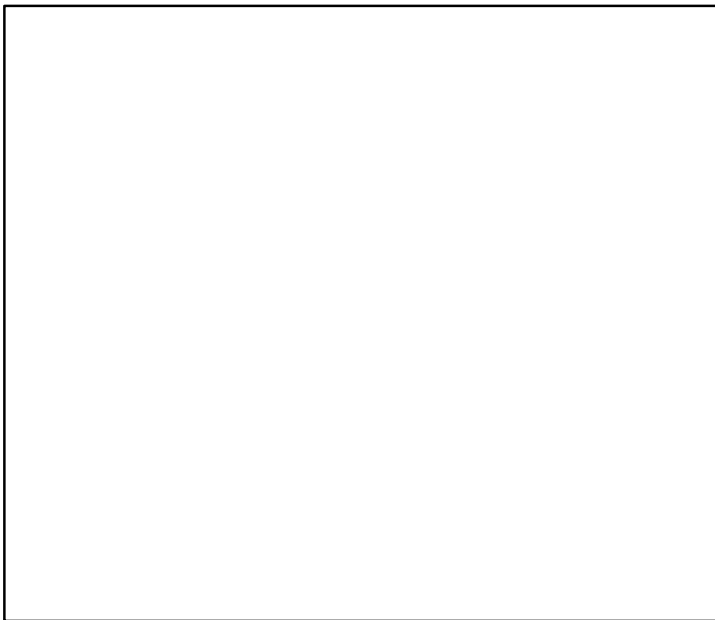
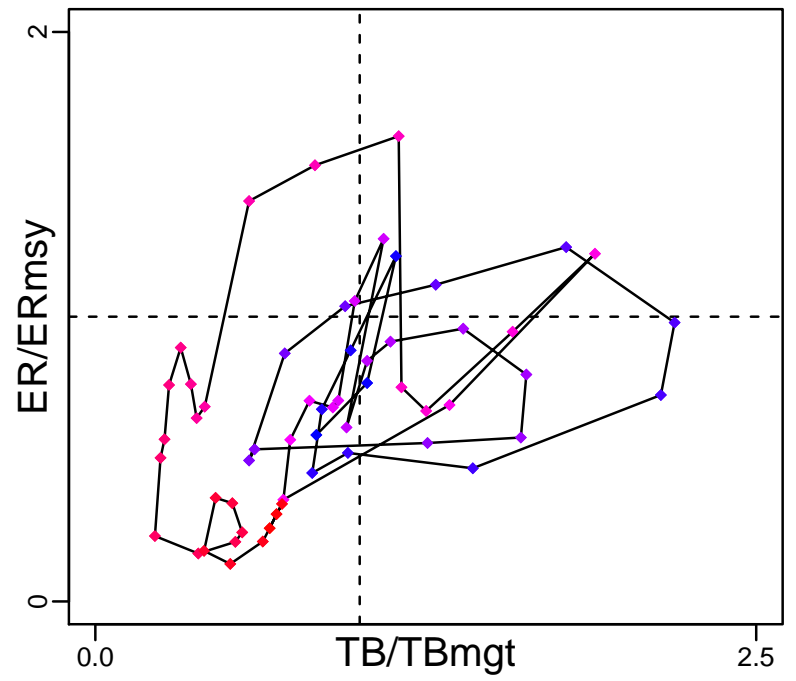
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2014	16,800	Both	-
SSB	-	-	-	-	-
TN	TN-E00	2005	5,550,000	-	-
R	R-E00	2014	0	Both	-
F	F-1/yr	2014	0	-	-
ER	ER-calc-ratio	2014	0	-	-
TC	TC-MT	2014	701		
TL	TL-MT	2005	400		
TB/TBmsy	TB-MT/TBmsy-MT	2005	1.2		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2005	0.22		
ER/ERmsy	ER-calc-ratio/ERmsy-conv-ratio	2014	0.26		
TB/TBmgt	TB-MT/TBmgt-MT	2014	0.87		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Pacific cod Hecate Strait [PCODHS]

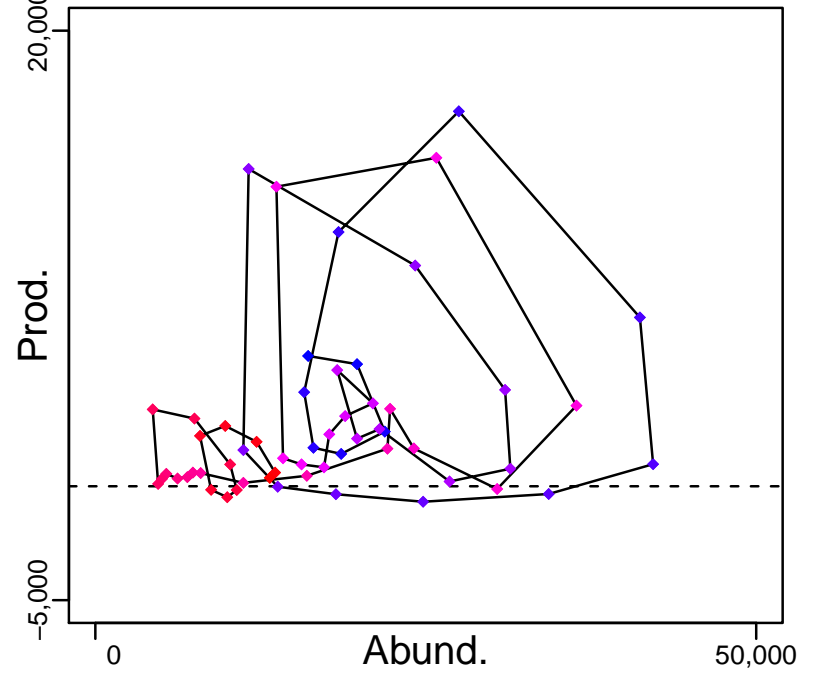
Kobe MSYpref (1944–2014–OSGOOD)



Kobe MGTpref (1944–2014–OSGOOD)



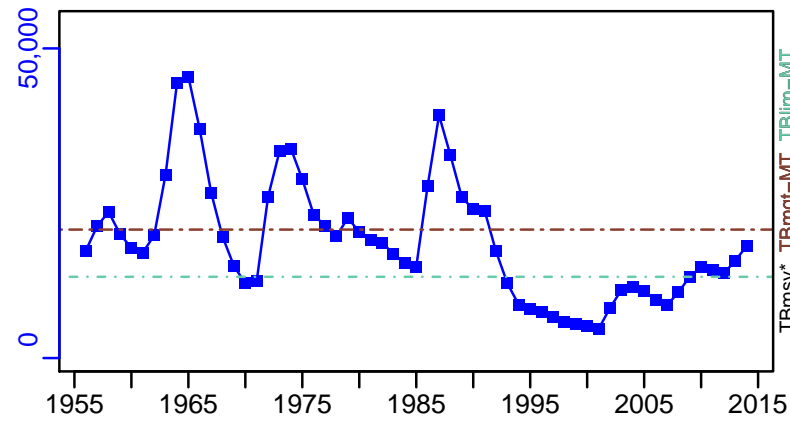
Production (1944–2014–OSGOOD)



◆ Start Year ◆ End Year * No Data

Pacific cod Hecate Strait [PCODHS]

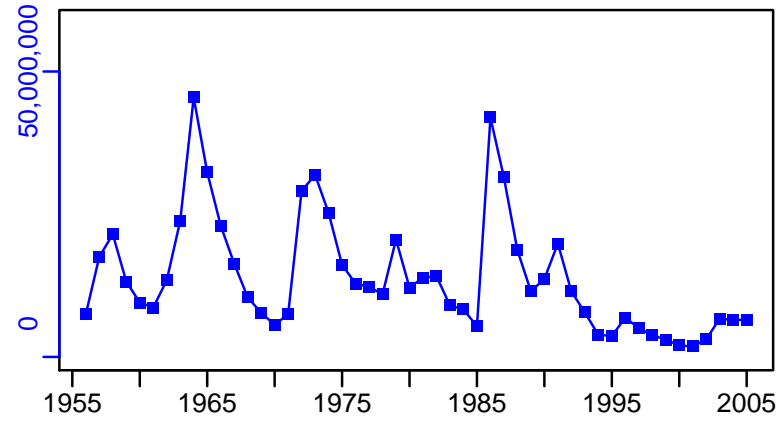
TB-MT (1944-2014-OSGOOD)



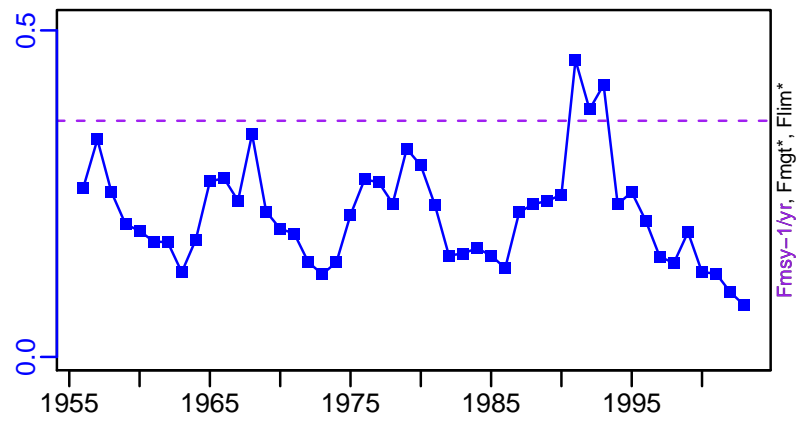
SSB*



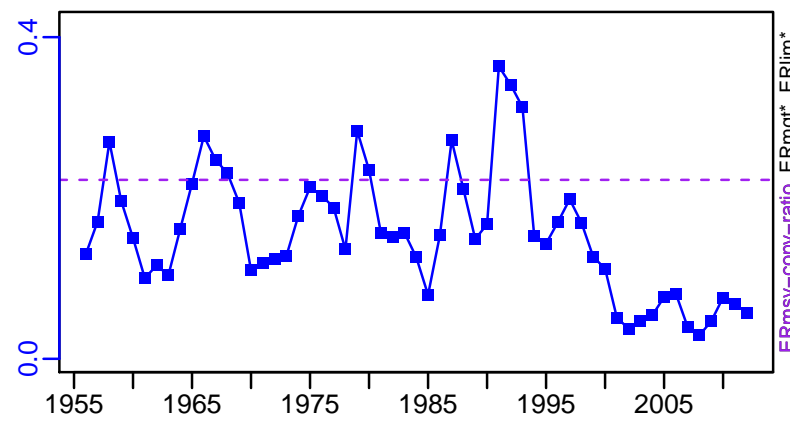
TN-E00 (1956-2005-COLLIE)



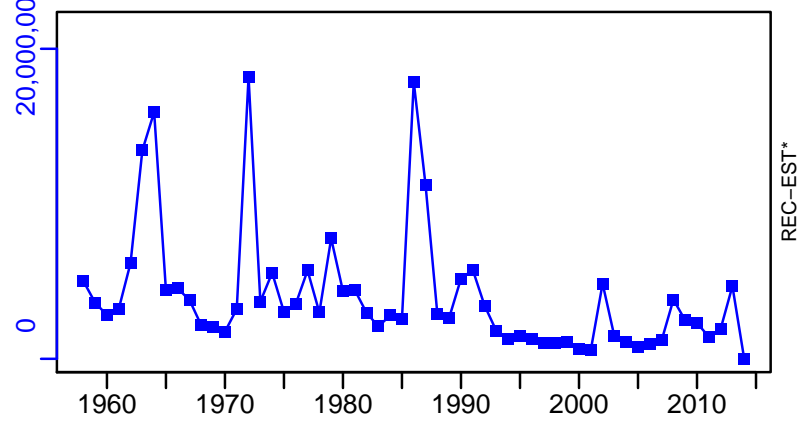
F-1/yr (1956-2005-COLLIE)



ER-calc-ratio (1944-2014-OSGOOD)

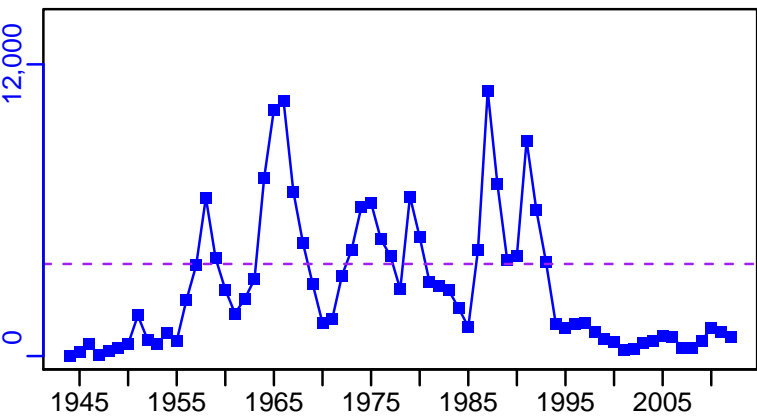


R-E00 (1944-2014-OSGOOD)

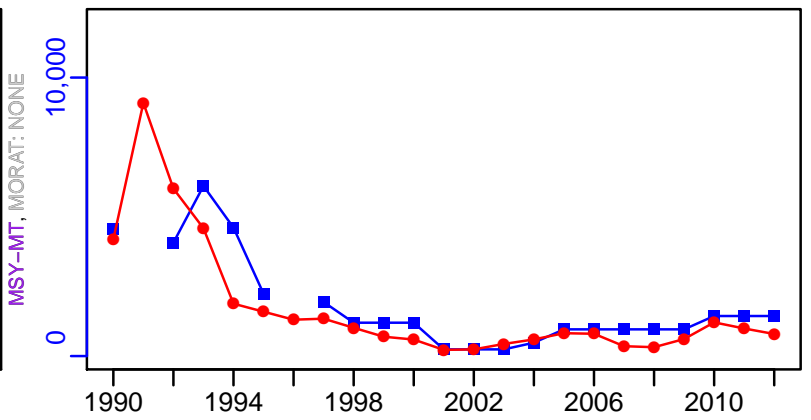


Pacific cod Hecate Strait [PCODHS]

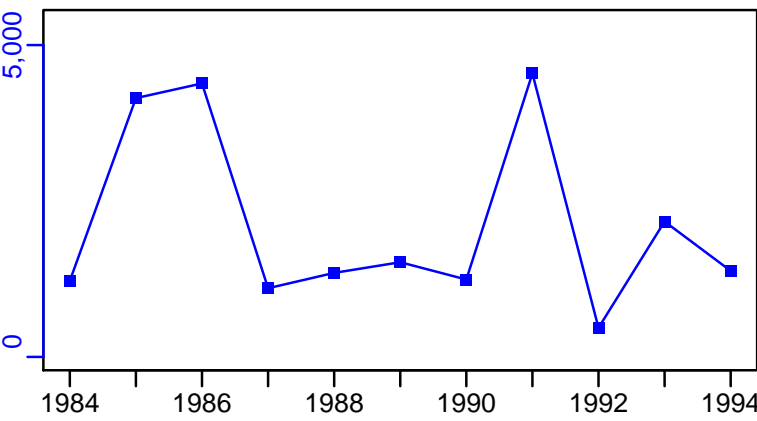
TC-MT, TL*, RecC* (1944-2014-OSGOOD)



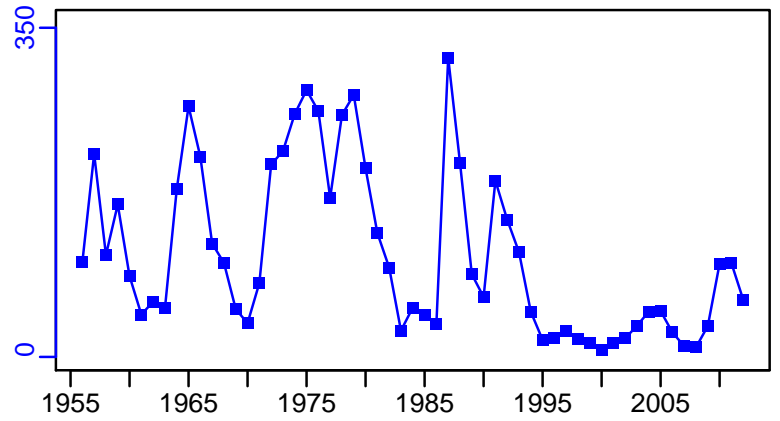
TAC-MT, Cpair-MT, Cadv* (1944-2014-OSGOOD)



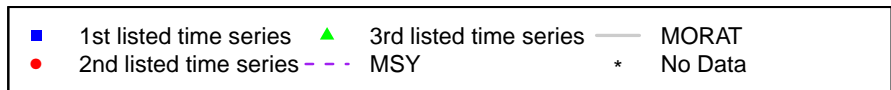
survB-MT (1944-2014-OSGOOD)



CPUE-kg/hour (1944-2014-OSGOOD)



EFFORT*



Pacific cod West Coast of Vancouver Island [PCODWCVANI]

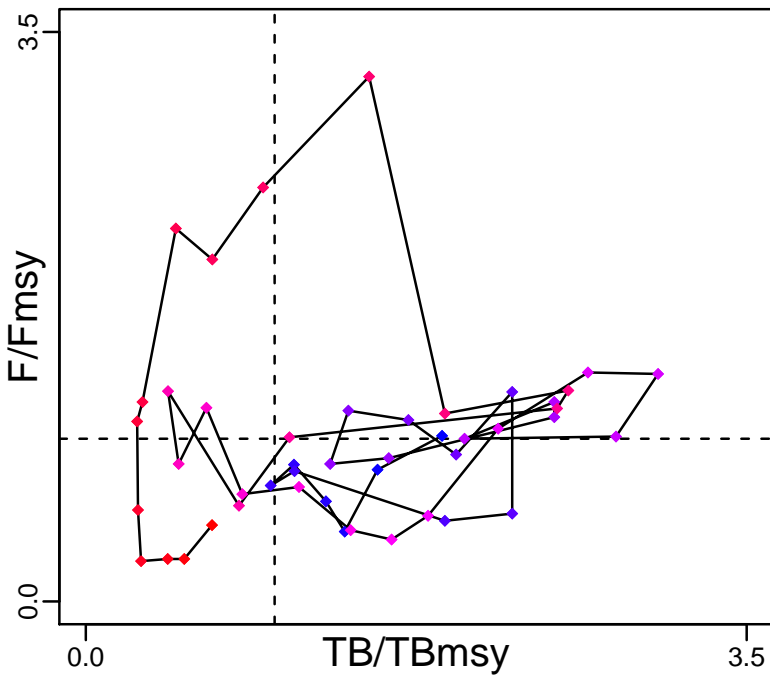
Metadata	
Scientific Name	Gadus macrocephalus
Current Assess ID	DFO-PAC-PCODWCVANI-1956-2002-COLLIE
Area	West Coast of Vancouver Island
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Pacific Region
Asmts in RAM	2002

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2002	6731
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2002	0.23
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2002	0.58
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

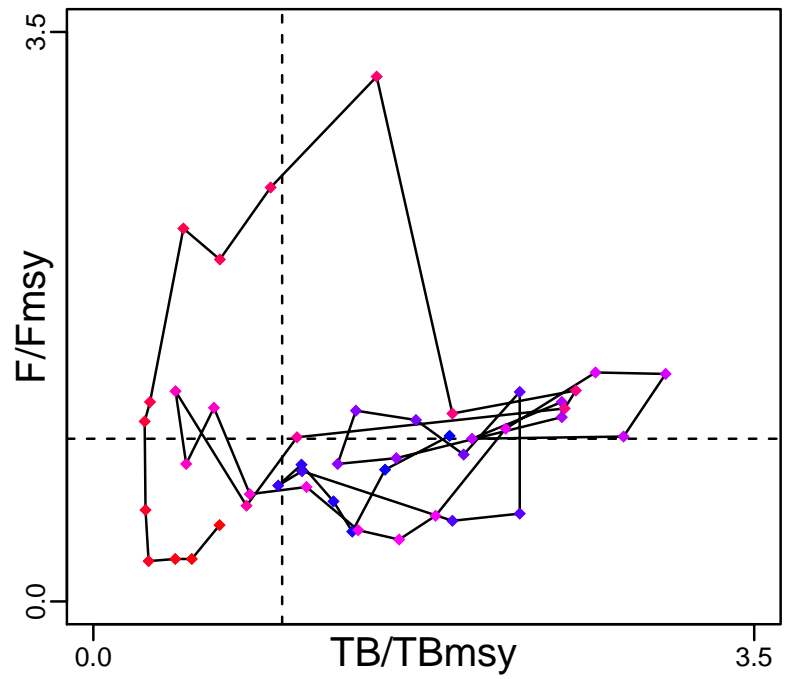
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2002	6980	-	2+
SSB	-	-	-	-	-
TN	TN-E00	2002	5,140,000	-	-
R	R-E00	2002	2,190,000	-	2
F	F-1/yr	2002	0	Both	2+
ER	ER-ratio	2002	0	-	-
TC	-	-	-		
TL	TL-MT	2002	339		
TB/TBmsy	TB-MT/TBmsy-MT	2002	1.04		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2002	0.47		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Pacific cod West Coast of Vancouver Island [PCODWCVANI]

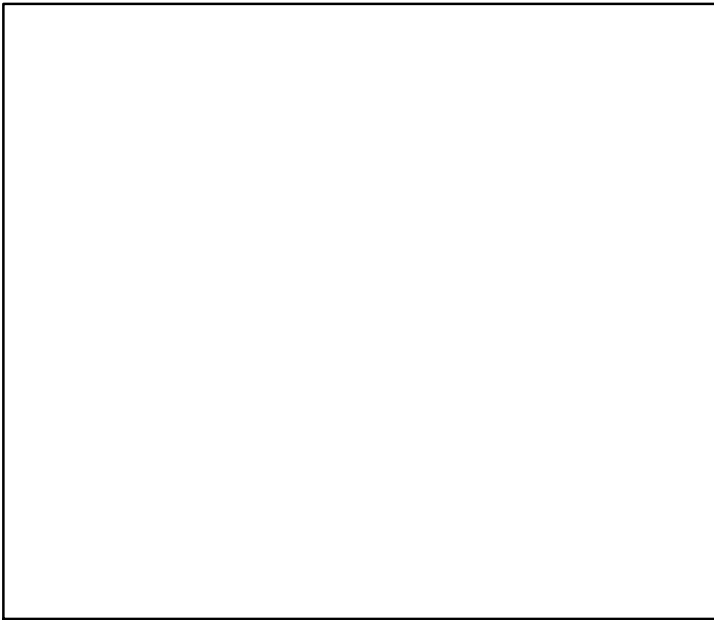
Kobe MSYpref (1956–2002–COLLIE)



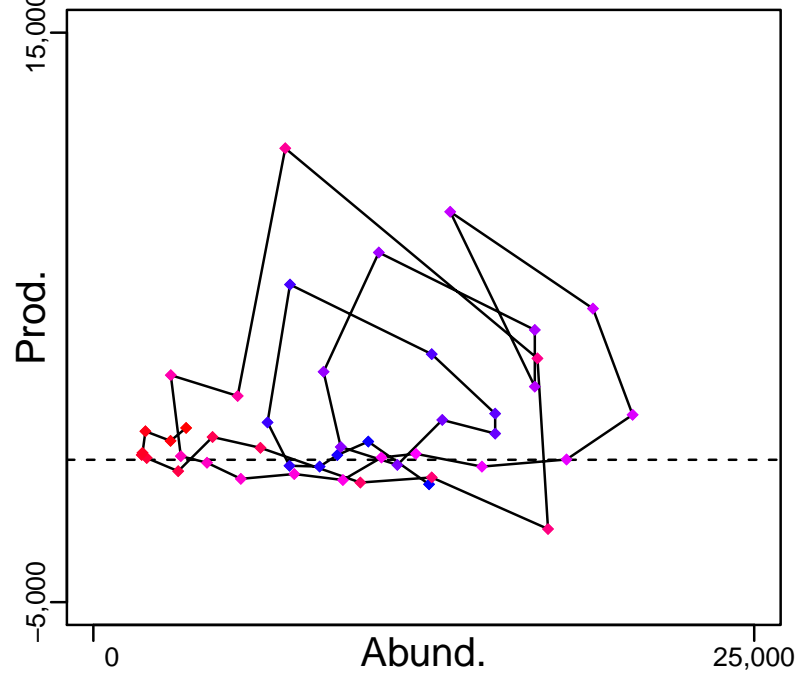
Kobe MGTpref (1956–2002–COLLIE)



Spawner Recruit*



Production (1956–2002–COLLIE)

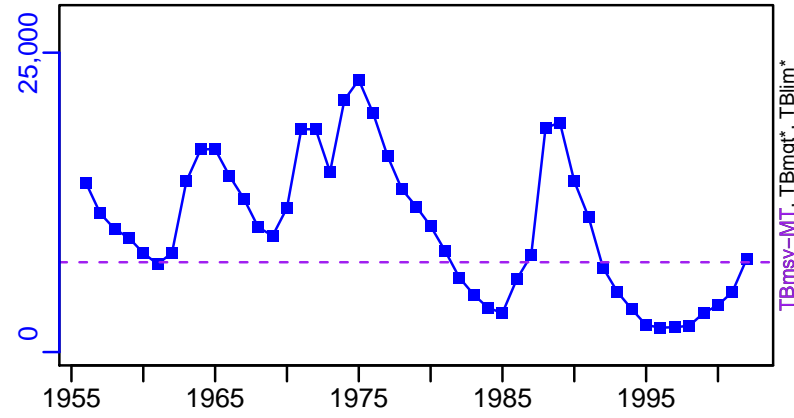


◆ Start Year ◆ End Year * No Data

Pacific cod West Coast of Vancouver Island [PCODWCVANI]

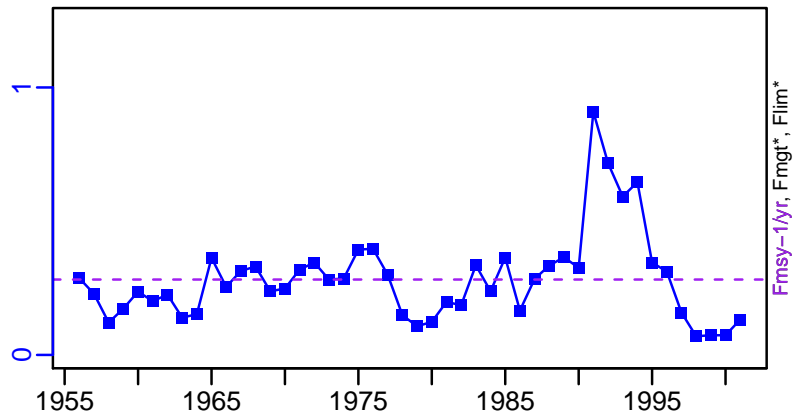
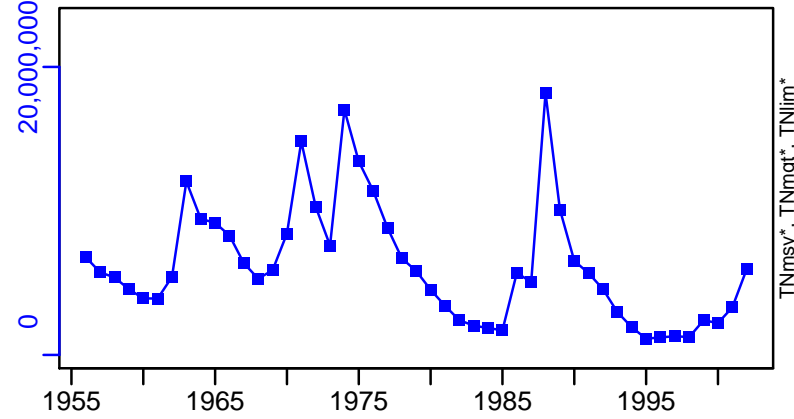
TB-MT (1956-2002-COLLIE)

SSB*



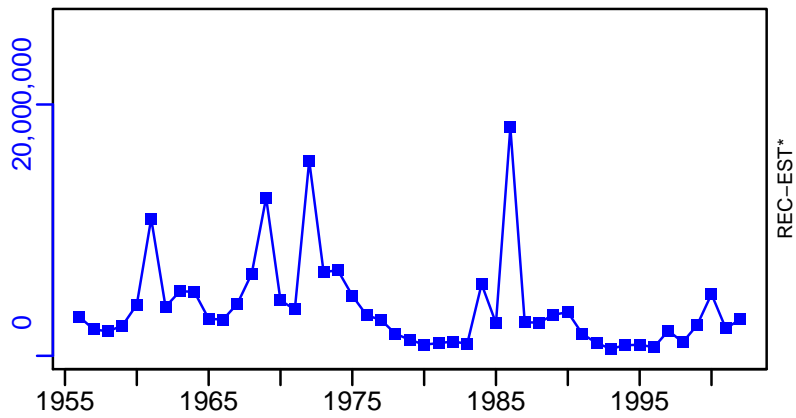
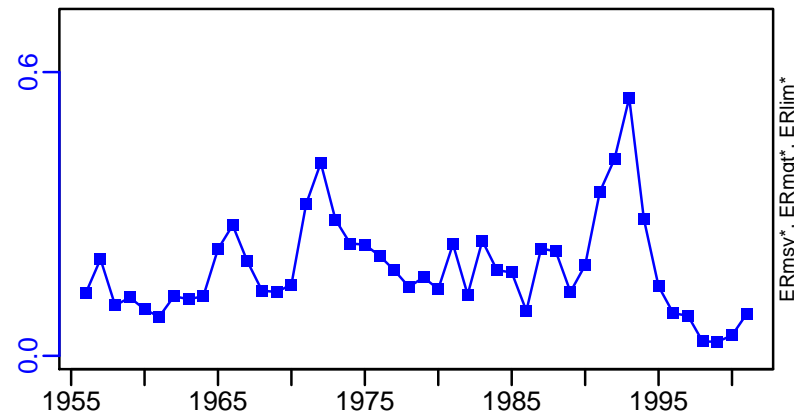
TN-E00 (1956-2002-COLLIE)

F-1/yr (1956-2002-COLLIE)



ER-ratio (1956-2002-COLLIE)

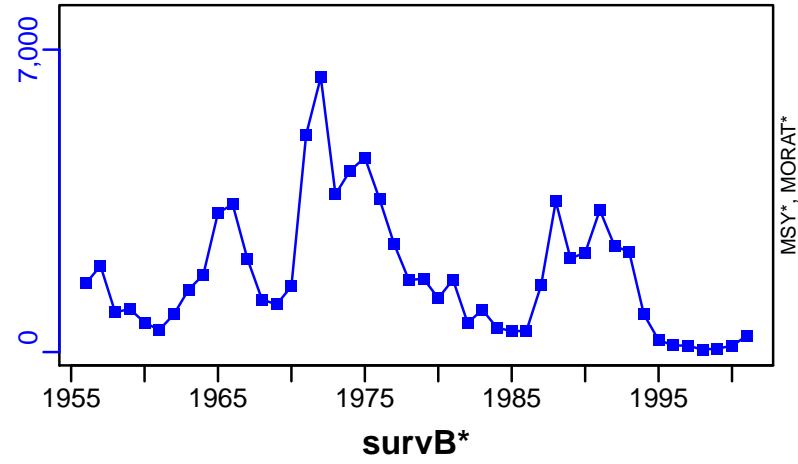
R-E00 (1956-2002-COLLIE)



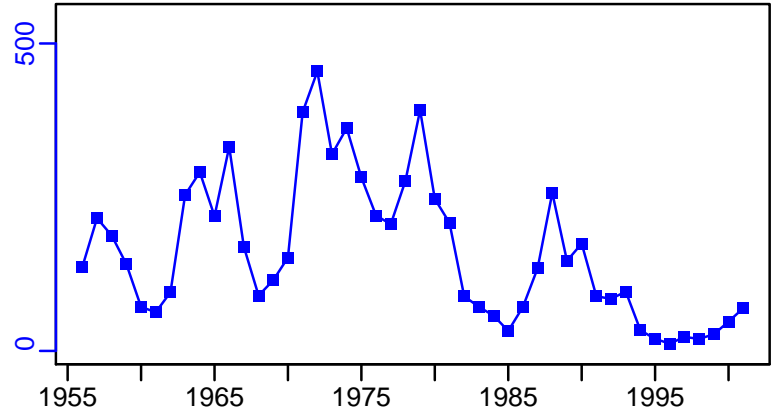
Pacific cod West Coast of Vancouver Island [PCODWCVANI]

TL-MT, TC*, RecC* (1956-2002-COLLIE)

TAC*, Cpair*, Cadv*



CPUE_{raw}-C/E (1956-2002-COLLIE)



EFFORT*



■ 1st listed time series ▲ 3rd listed time series — MORAT
● 2nd listed time series - - - MSY * No Data

Pacific Ocean perch Haida Gwaii [PERCHQCI]

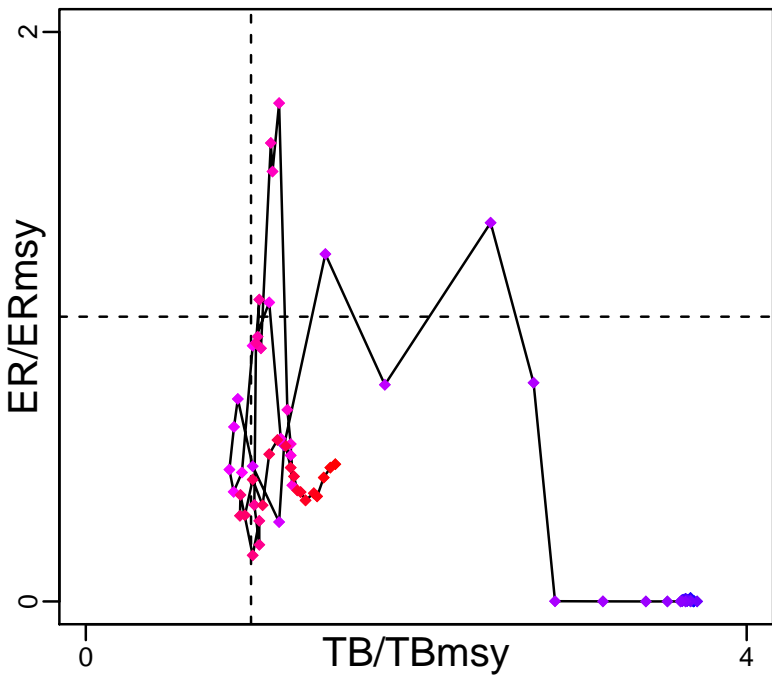
Metadata	
Scientific Name	Sebastes alutus
Current Assess ID	DFO-PERCHQCI-1939-2013-WATSON
Area	Queen Charlotte Islands
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans
Asmts in RAM	2013

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2013	14,056
SSBmsy	SSBmsy-MT	2013	7304
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2013	0.11
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	SSB0-MT	2013	31,242
MSY	MSY-MT	2013	1488
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

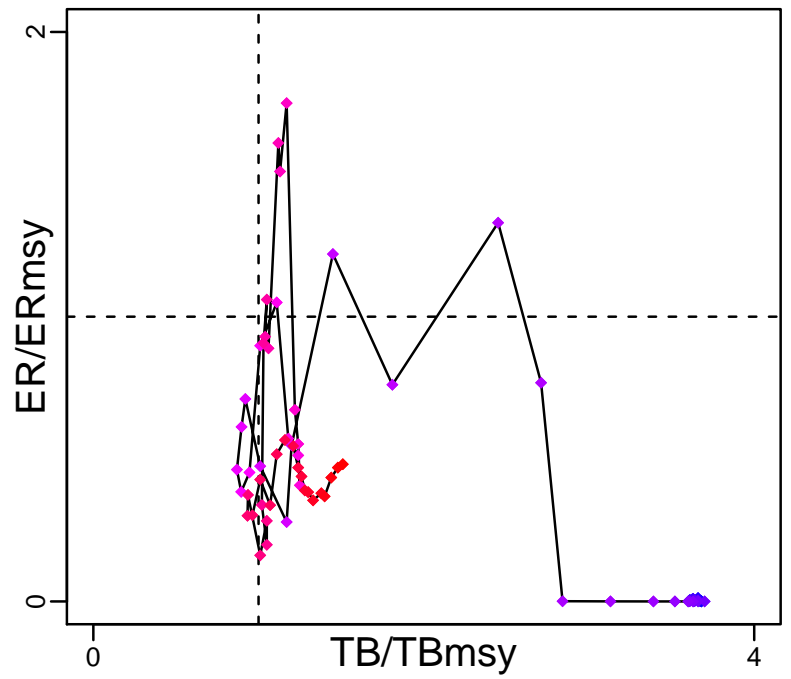
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2013	19,300	Both	-
SSB	SSB-MT	2013	11,300	Females	10 to 20
TN	-	-	-	-	-
R	R-E00	2013	4,020,000	-	1
F	-	-	-	-	-
ER	ER-ratio	2013	0	-	-
TC	TC-MT	2013	584		
TL	-	-	-		
TB/TBmsy	TBdivTBmsy-dimensionless	2013	1.53		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	1.55		
F/Fmsy	-	-	-		
ER/ERmsy	ERdivERmsy-dimensionless	2013	0.48		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Pacific Ocean perch Haida Gwaii [PERCHQCI]

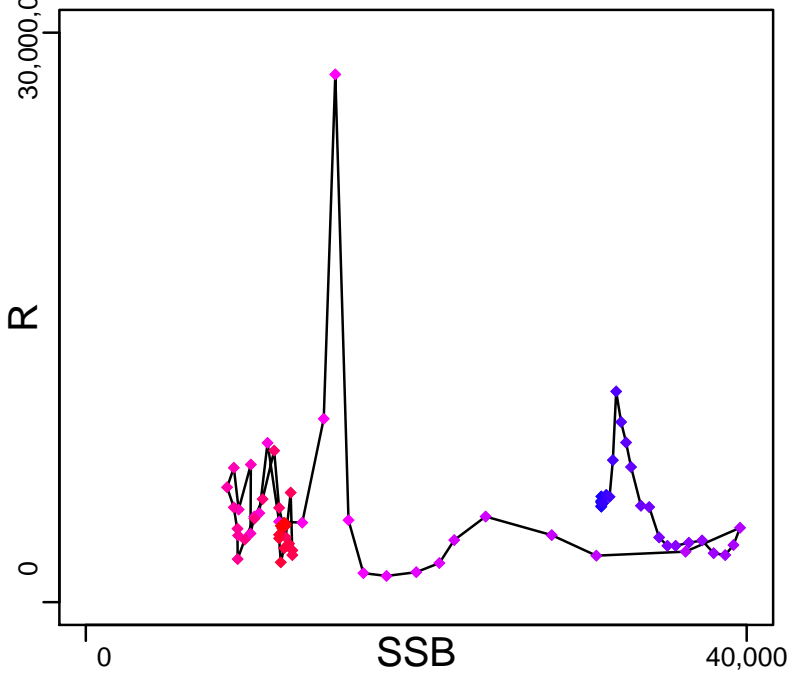
Kobe MSYpref (1939–2013–WATSON)



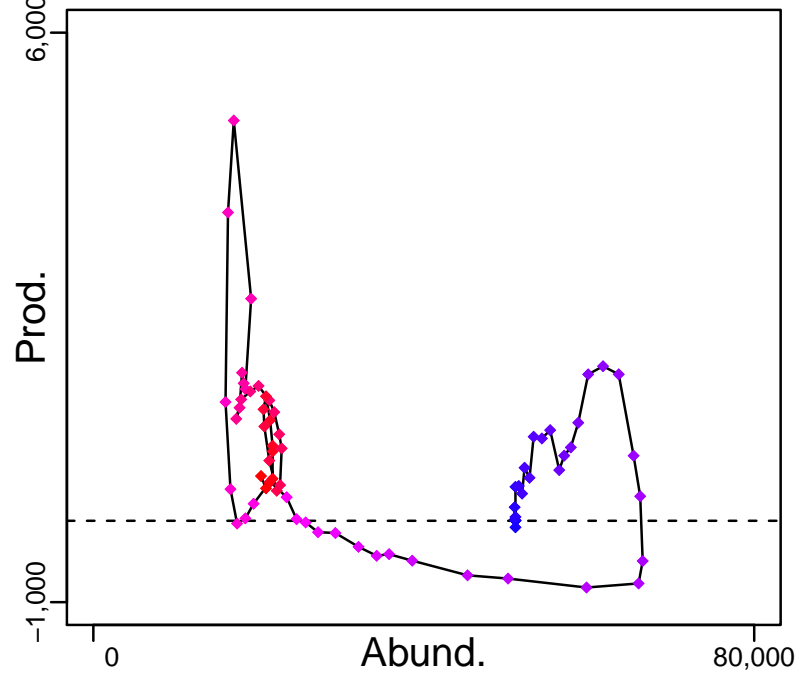
Kobe MGTpref (1939–2013–WATSON)



Spawner Recruit (1939–2013–WATSON)



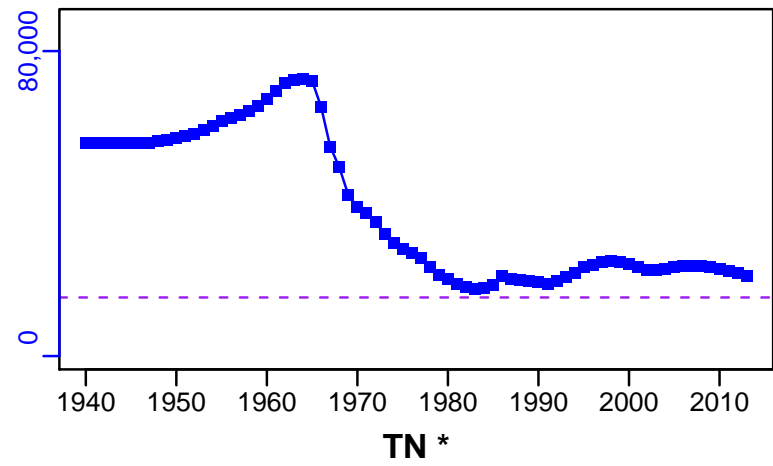
Production (1939–2013–WATSON)



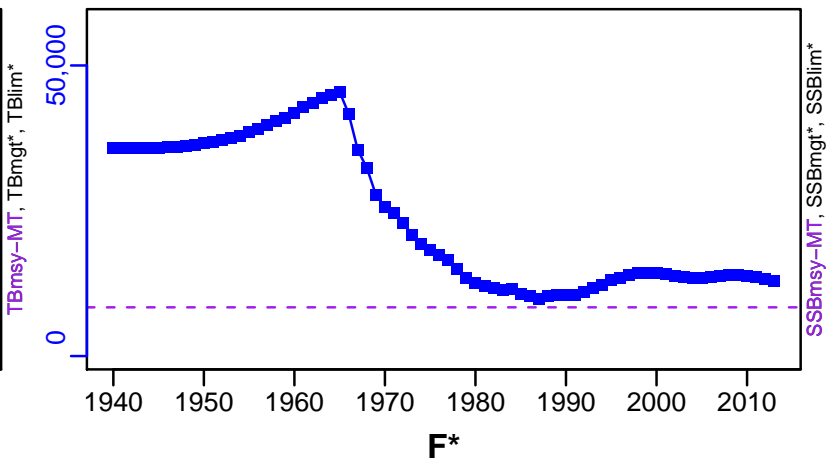
◆ Start Year ◆ End Year * No Data

Pacific Ocean perch Haida Gwaii [PERCHQCI]

TB-MT (1939-2013-WATSON)



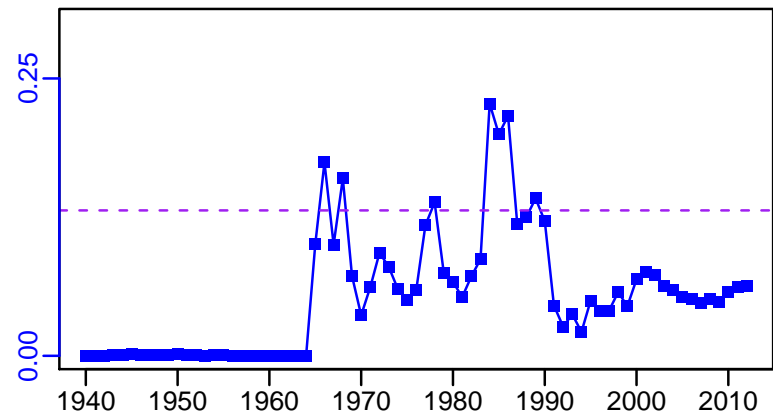
SSB-MT (1939-2013-WATSON)



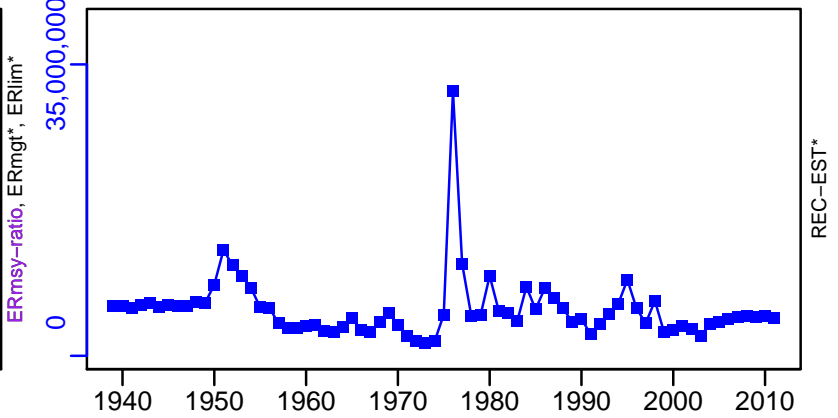
TN *

F*

ER-ratio (1939-2013-WATSON)



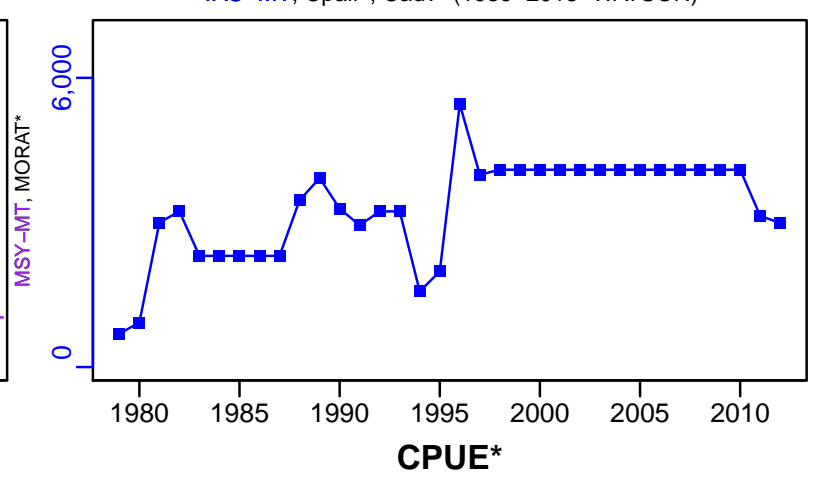
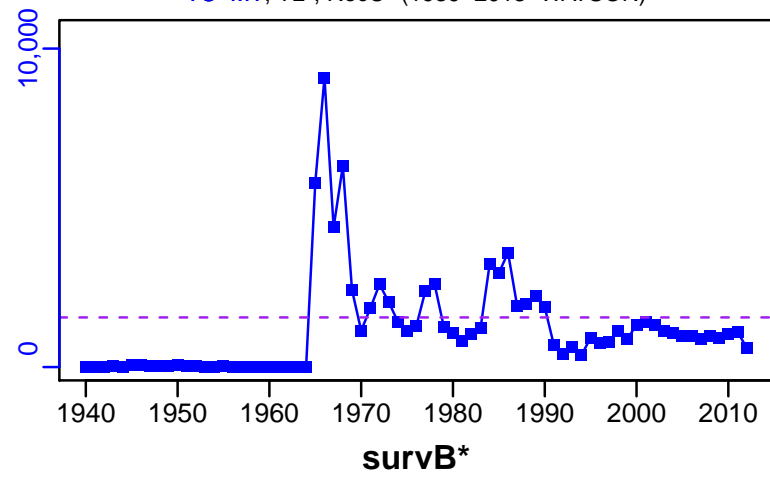
R-E00 (1939-2013-WATSON)



Pacific Ocean perch Haida Gwaii [PERCHQCI]

TC-MT, TL*, RecC* (1939-2013-WATSON)

TAC-MT, Cpair*, Cadv* (1939-2013-WATSON)



EFFORT*



Pacific Ocean perch West Coast of Vancouver Island [PERCHWCVANI]

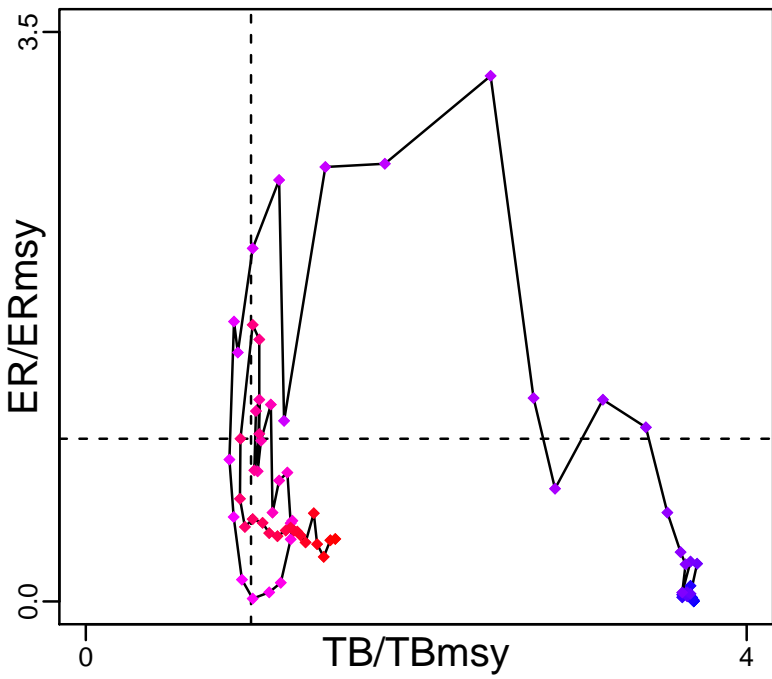
Metadata	
Scientific Name	Sebastes alutus
Current Assess ID	DFO-PERCHWCVANI-1939-2013-WATSON
Area	West Coast of Vancouver Island
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans
Asmts in RAM	2013

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2013	11,729
SSBmsy	SSBmsy-MT	2013	5809
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2013	0.09
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	SSB0-MT	2013	21,442
MSY	MSY-MT	2013	1048
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2013	2324
Flim	-	-	-
ERlim	-	-	-

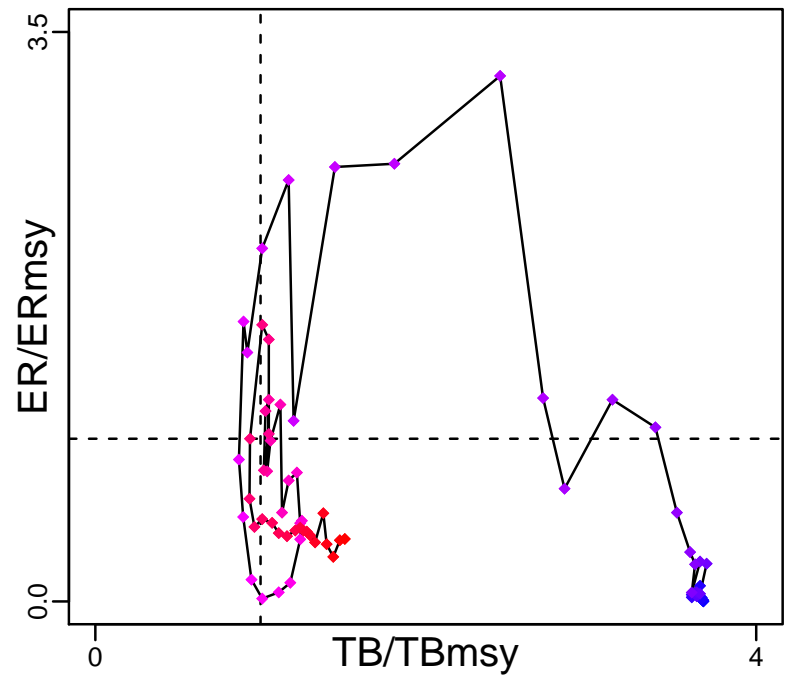
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2013	16,400	Both	-
SSB	SSB-MT	2013	8740	Females	10 to 20
TN	-	-	-	-	-
R	R-E00	2013	3,160,000	-	1
F	-	-	-	-	-
ER	ER-ratio	2013	0	-	-
TC	TC-MT	2013	382		
TL	-	-	-		
TB/TBmsy	TBdivTBmsy-dimensionless	2013	1.53		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	1.5		
F/Fmsy	-	-	-		
ER/ERmsy	ERdivERmsy-dimensionless	2013	0.38		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Pacific Ocean perch West Coast of Vancouver Island [PERCHWCVANI]

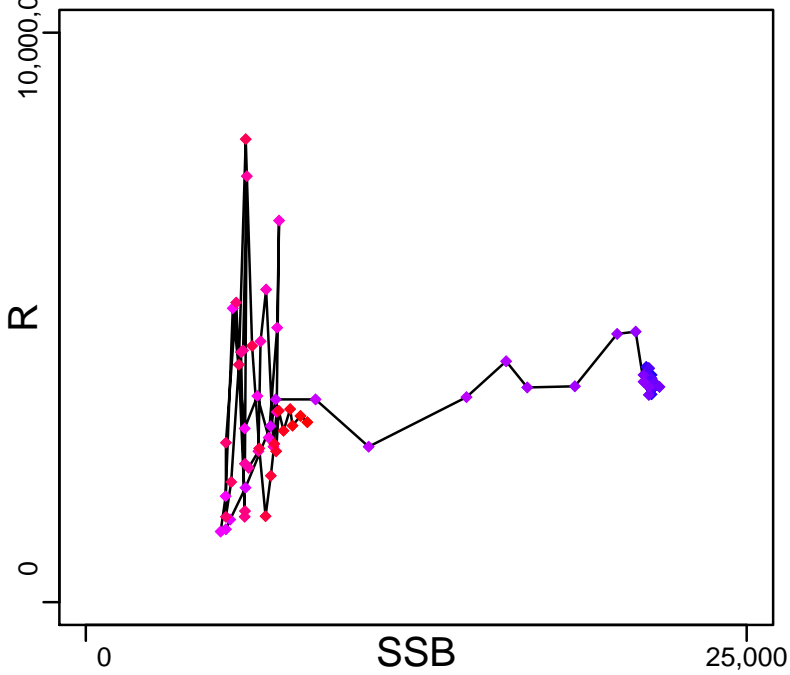
Kobe MSYpref (1939–2013–WATSON)



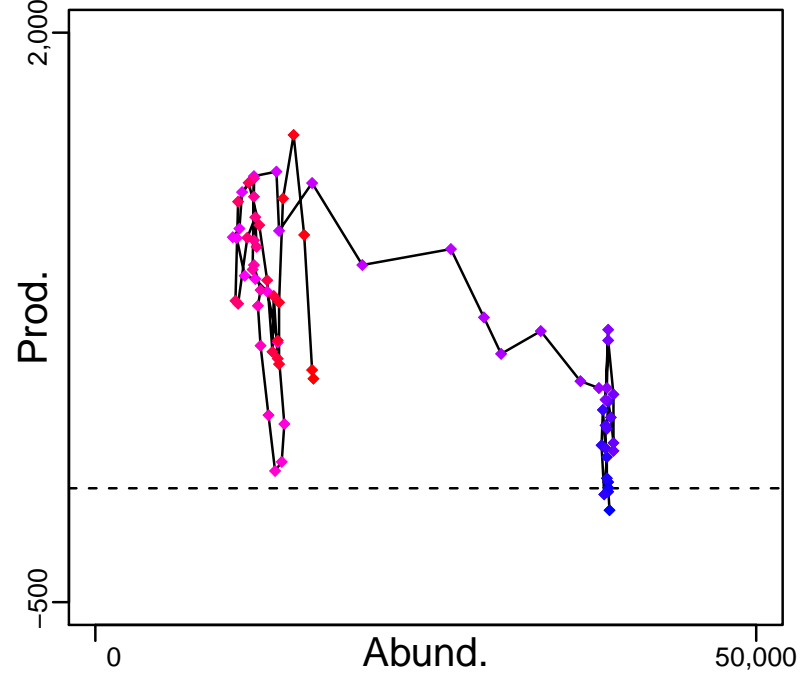
Kobe MGTpref (1939–2013–WATSON)



Spawner Recruit (1939–2013–WATSON)



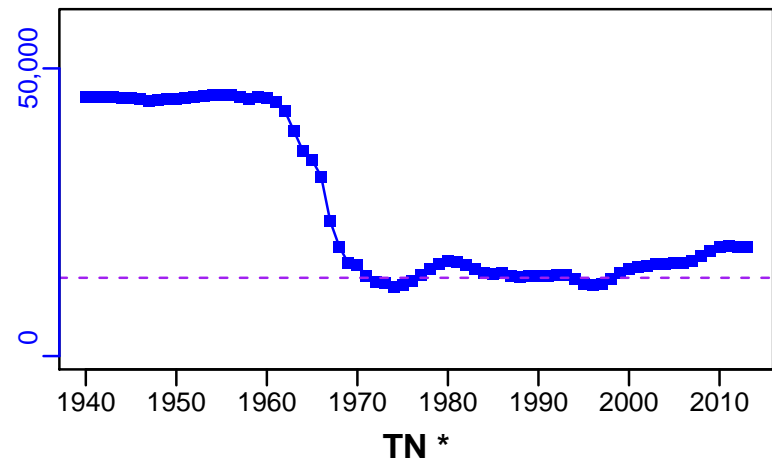
Production (1939–2013–WATSON)



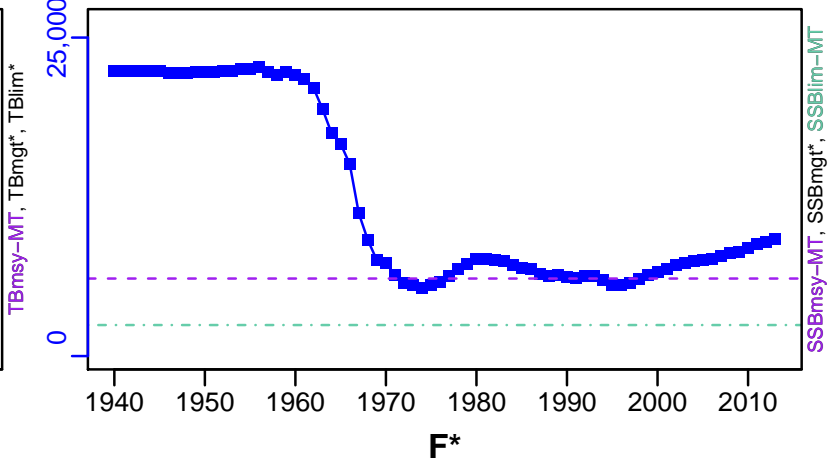
◆ Start Year ◆ End Year * No Data

Pacific Ocean perch West Coast of Vancouver Island [PERCHWCVANI]

TB-MT (1939-2013-WATSON)

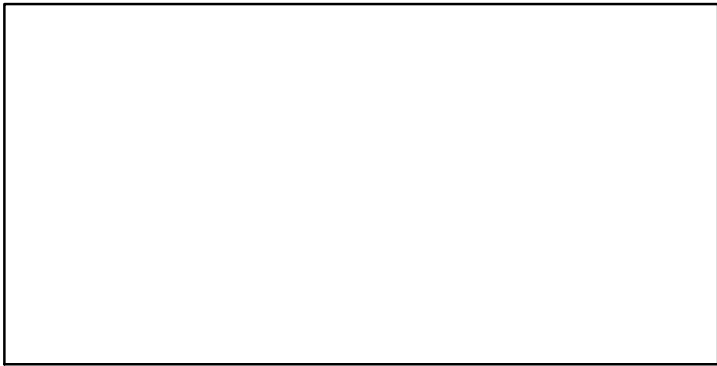


SSB-MT (1939-2013-WATSON)

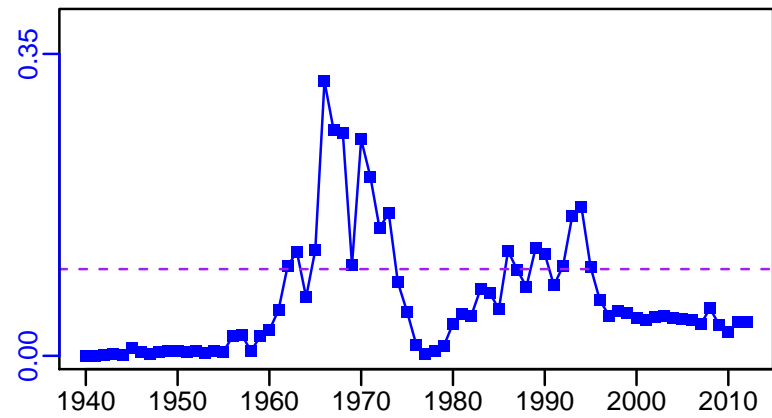


TN *

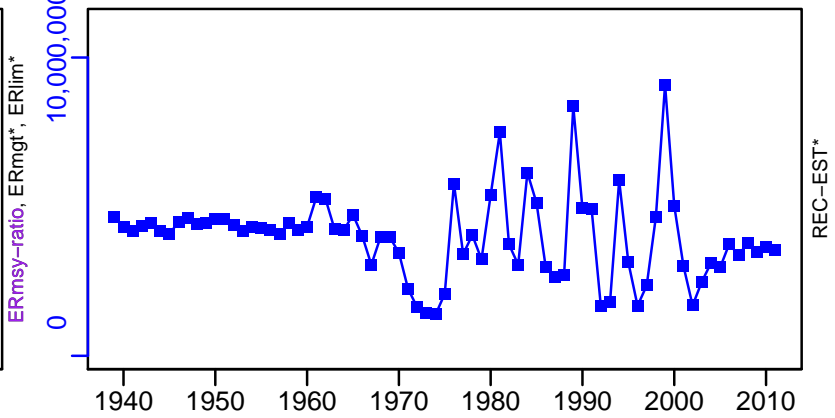
F*



ER-ratio (1939-2013-WATSON)



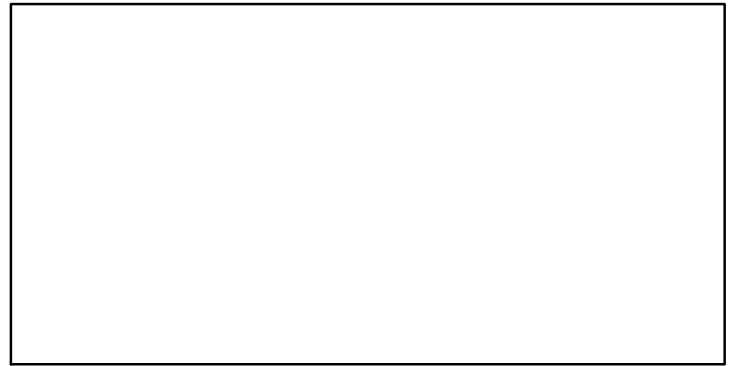
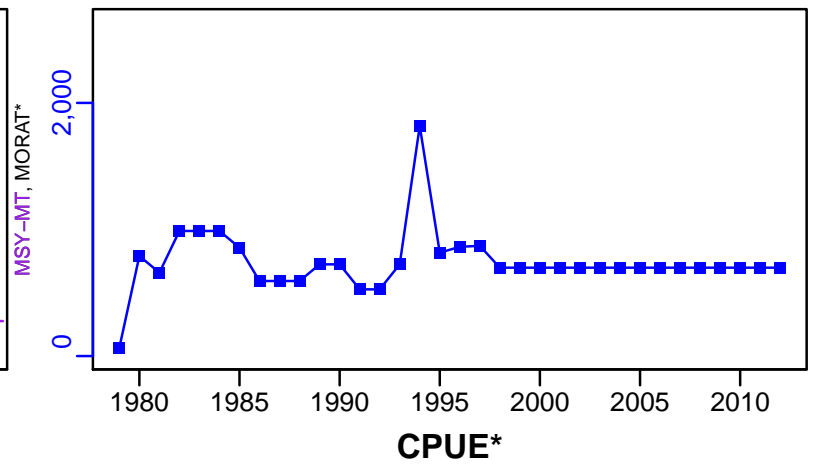
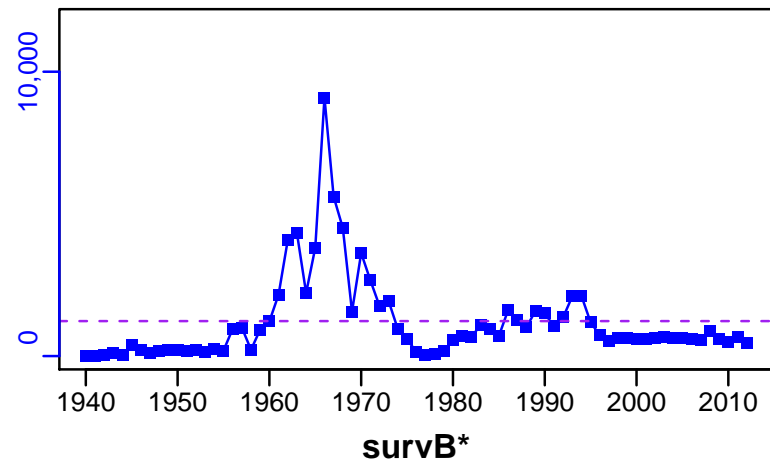
R-E00 (1939-2013-WATSON)



Pacific Ocean perch West Coast of Vancouver Island [PERCHWCVANI]

TC-MT, TL*, RecC* (1939-2013-WATSON)

TAC-MT, Cpair*, Cadv* (1939-2013-WATSON)



EFFORT*



Quillback rockfish Pacific Coast of Canada (Inside) [QROCKPCOASTIN]

Metadata	
Scientific Name	Sebastes maliger
Current Assess ID	DFO-QROCKPCOASTIN-1918-2010-WATSON
Area	Pacific Coast of Canada (Inside)
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans
Asmts in RAM	2010

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2010	144
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2010	33.9		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



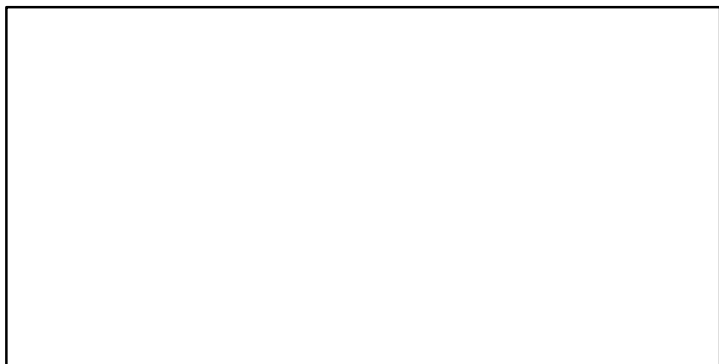
Production*



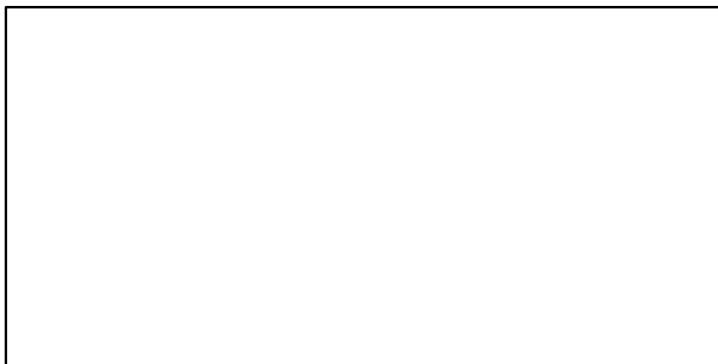
◆ Start Year ◆ End Year * No Data

Quillback rockfish Pacific Coast of Canada (Inside) [QROCKPCOASTIN]

TB*



SSB*



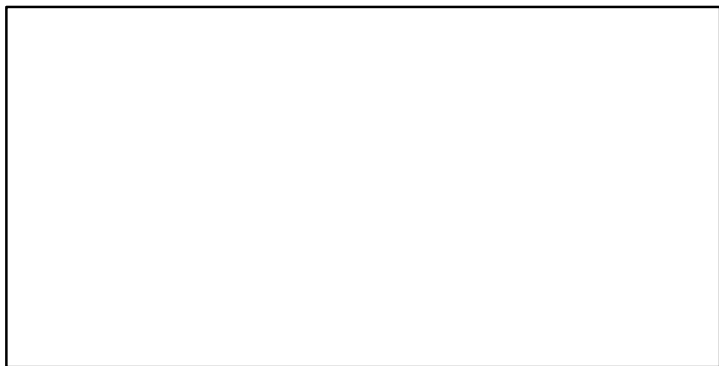
TN *



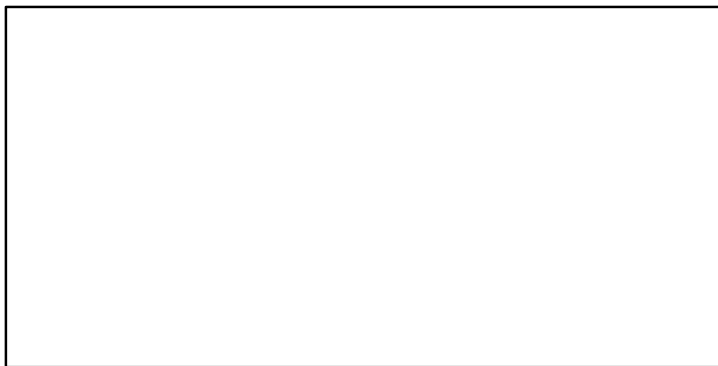
F*



ER*



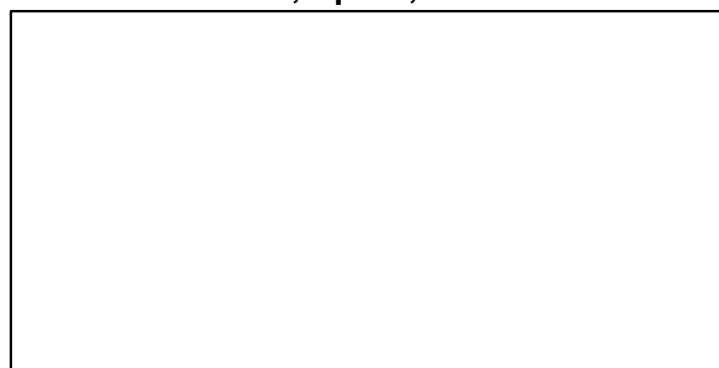
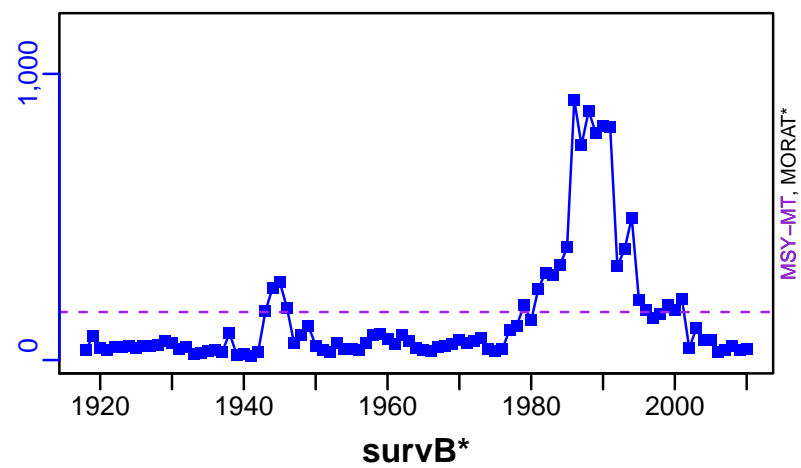
Recruits*



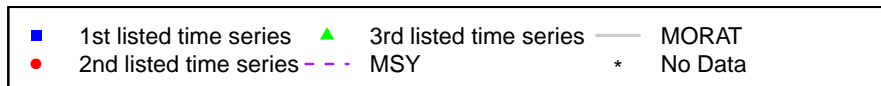
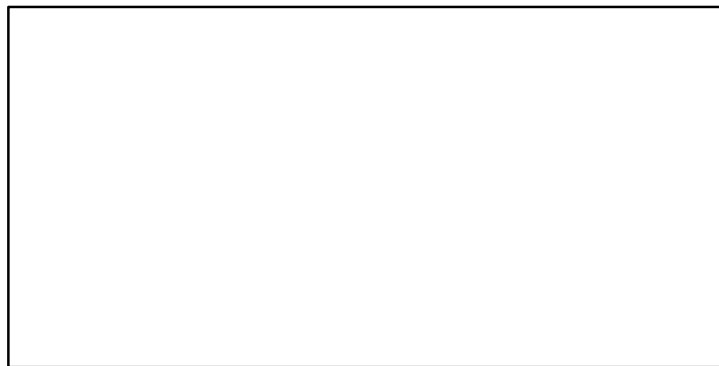
Quillback rockfish Pacific Coast of Canada (Inside) [QROCKPCOASTIN]

TC-MT, TL*, RecC* (1918-2010-WATSON)

TAC*, Cpair*, Cadv*



EFFORT*



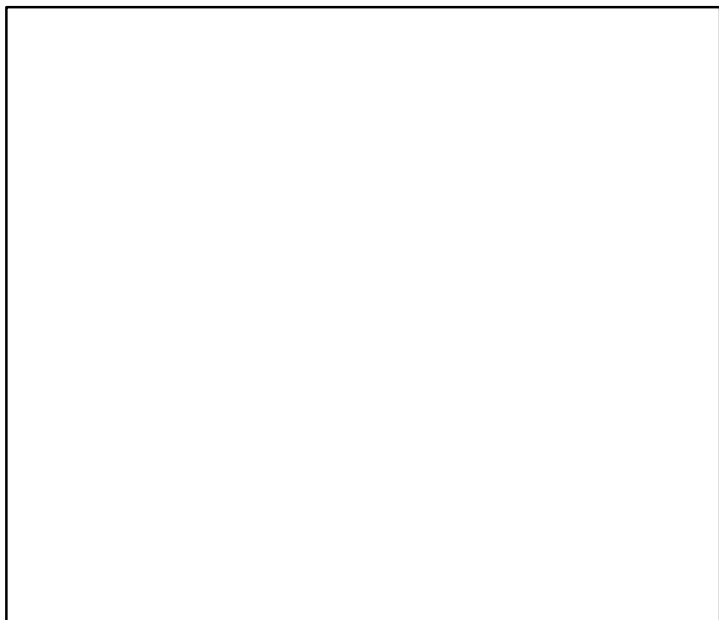
Quillback rockfish Pacific Coast of Canada (Outside) [QROCKPCOASTOUT]

Metadata	
Scientific Name	Sebastes maliger
Current Assess ID	DFO-QROCKPCOASTOUT-1918-2010-WATSON
Area	Pacific Coast of Canada (Outside)
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans
Asmts in RAM	2010

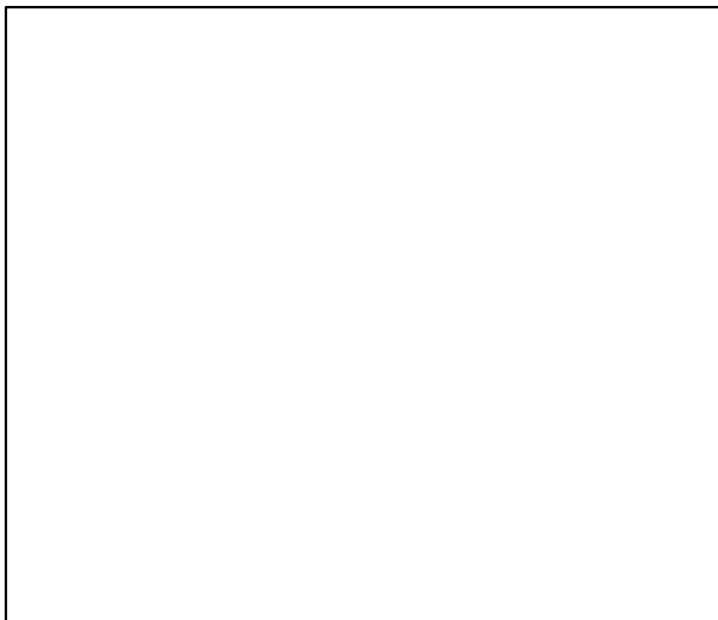
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2010	462
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2010	159		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

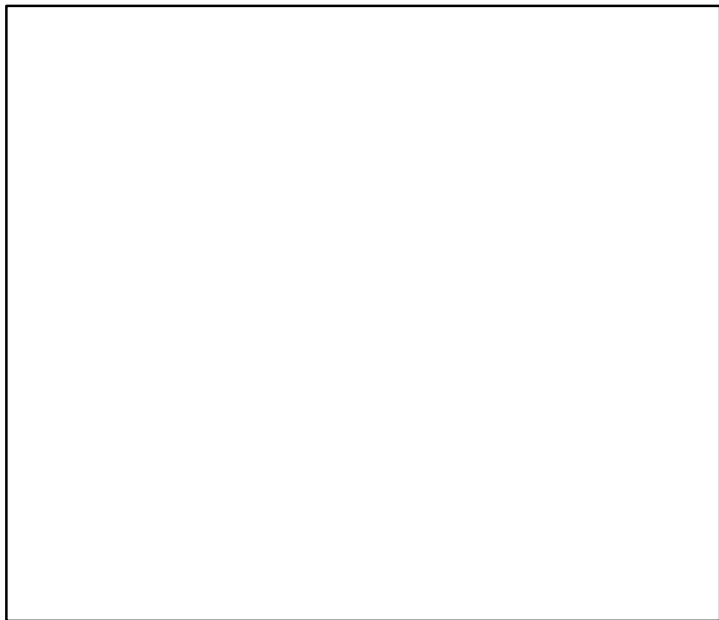
Kobe MSY*



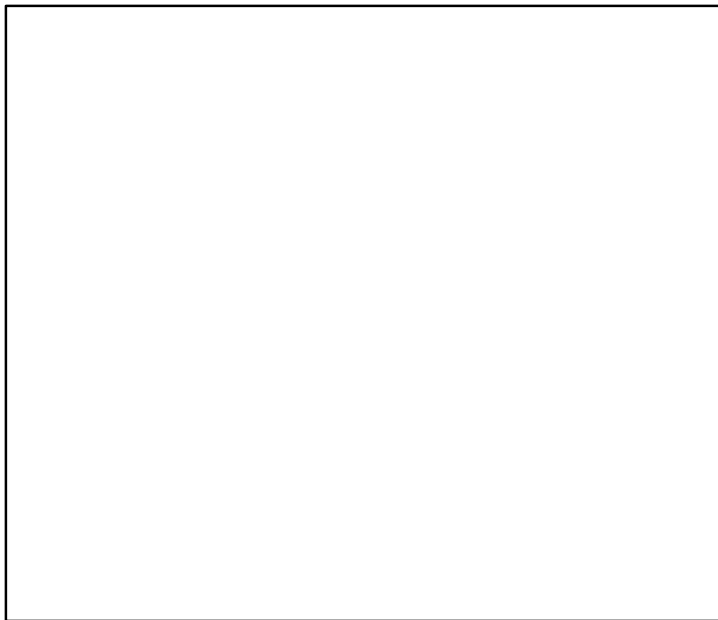
Kobe MGT*



Spawner Recruit*



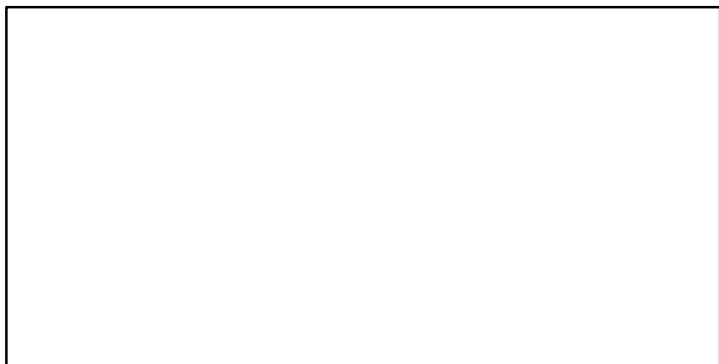
Production*



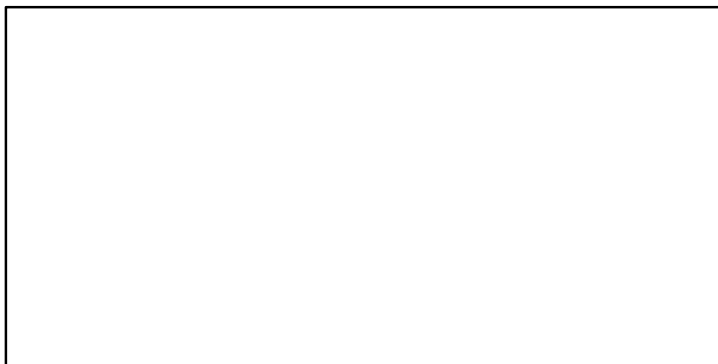
◆ Start Year ◆ End Year * No Data

Quillback rockfish Pacific Coast of Canada (Outside) [QROCKPCOASTOUT]

TB*



SSB*



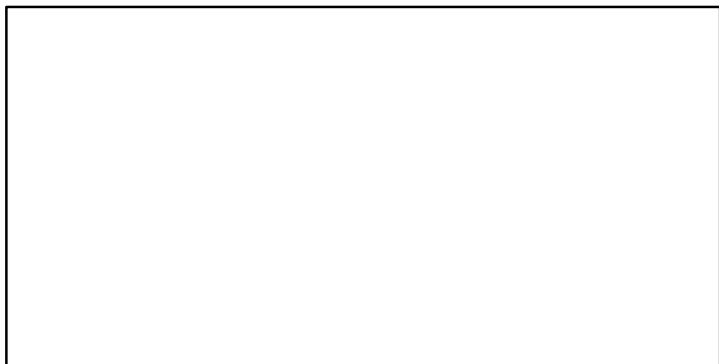
TN *



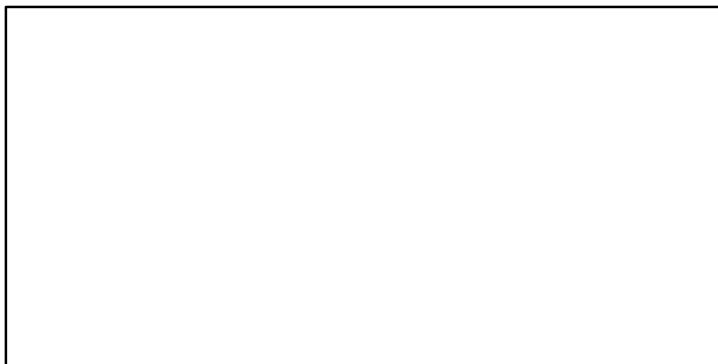
F*



ER*



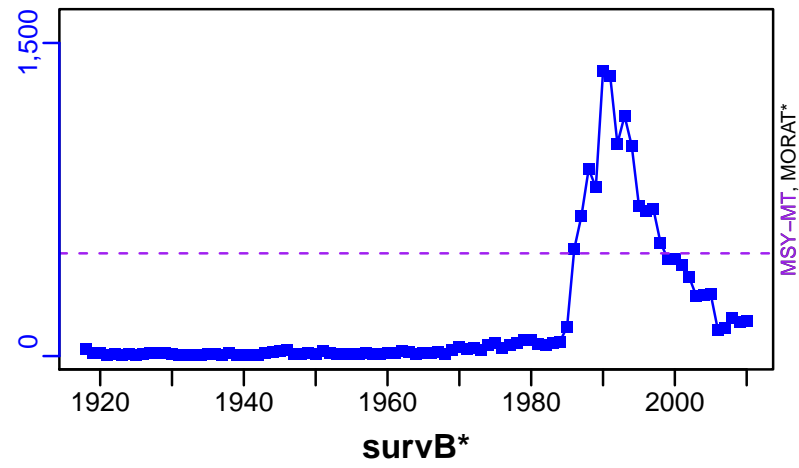
Recruits*



Quillback rockfish Pacific Coast of Canada (Outside) [QROCKPCOASTOUT]

TC-MT, TL*, RecC* (1918-2010-WATSON)

TAC*, Cpair*, Cadv*



EFFORT*



Rock sole Queen Charlotte Sound [RSOLE5AB]

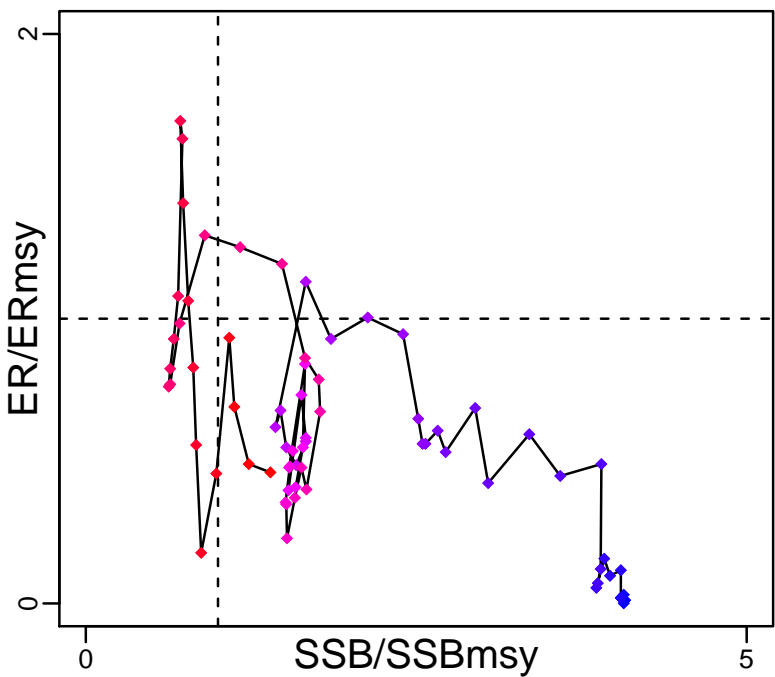
Metadata	
Scientific Name	Lepidopsetta bilineata
Current Assess ID	DFO-PAC-RSOLE5AB-1944-2014-OSGOOD
Area	Queen Charlotte Sound
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Pacific Region
Asmts in RAM	2014

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2014	1833
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2014	0.24
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2014	1467
Fmgt	-	-	-
ERmgt	ERmgt-ratio	2014	0.19
TB0	-	-	-
SSB0	SSB0-MT	2014	7479
MSY	MSY-MT	2014	524
M	M-1/yr	2014	0.25
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

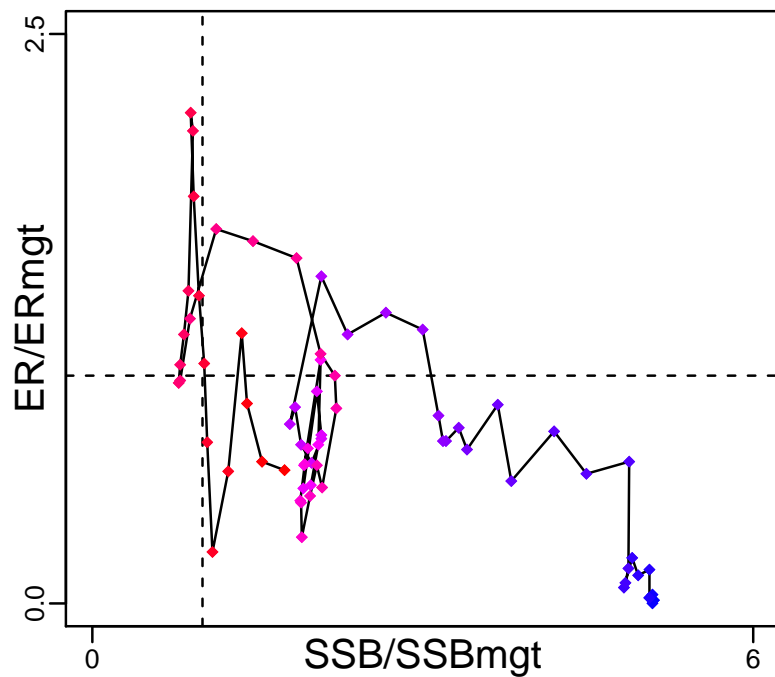
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2014	2780	Females	5.6
TN	-	-	-	-	-
R	R-E00	2014	2,630,000	Females	-
F	-	-	-	-	-
ER	ER-ratio	2014	0	Females	-
TC	TC-MT	2014	362		
TL	TL-MT	2014	337		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2014	1.52		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2014	0.46		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2014	1.9		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Rock sole Queen Charlotte Sound [RSOLE5AB]

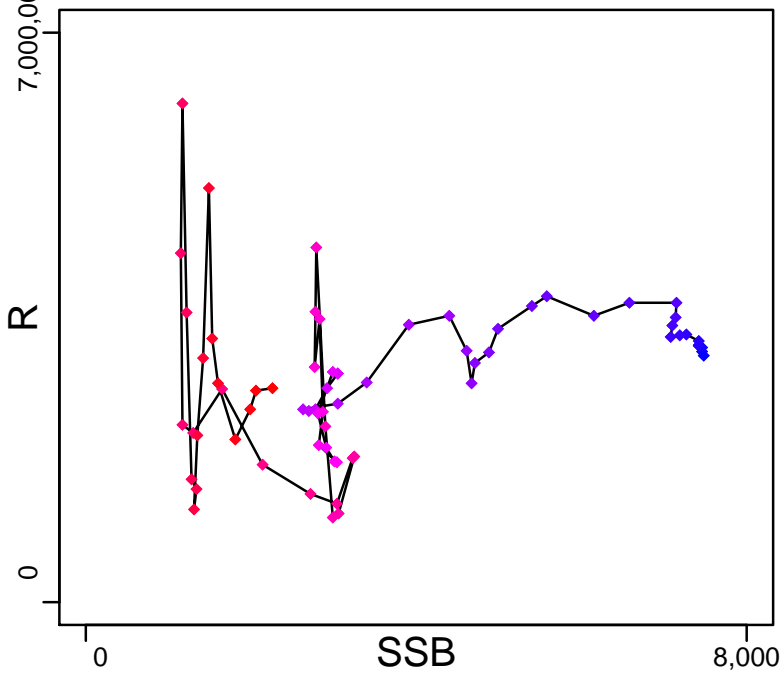
Kobe MSYpref (1944–2014–OSGOOD)



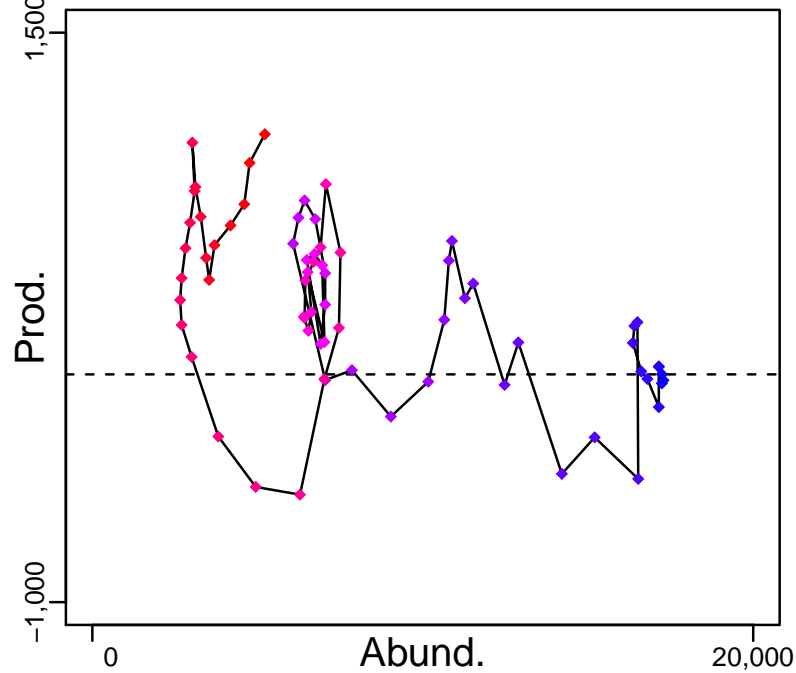
Kobe MGTpref (1944–2014–OSGOOD)



Spawner Recruit (1944–2014–OSGOOD)



Production (1944–2014–OSGOOD)



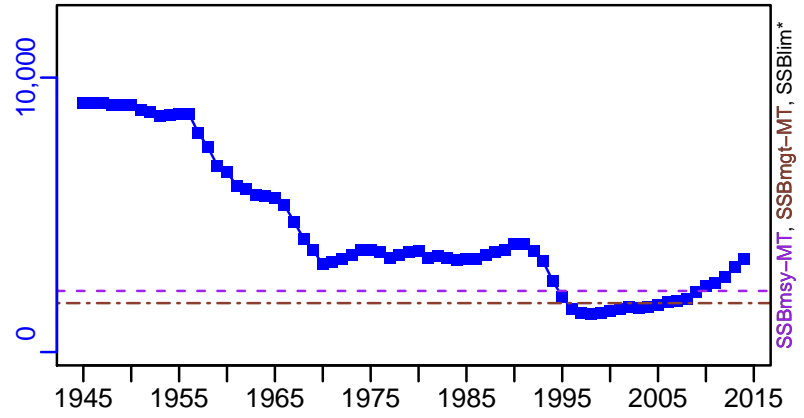
◆ Start Year ◆ End Year * No Data

Rock sole Queen Charlotte Sound [RSOLE5AB]

TB*



SSB-MT (1944–2014–OSGOOD)



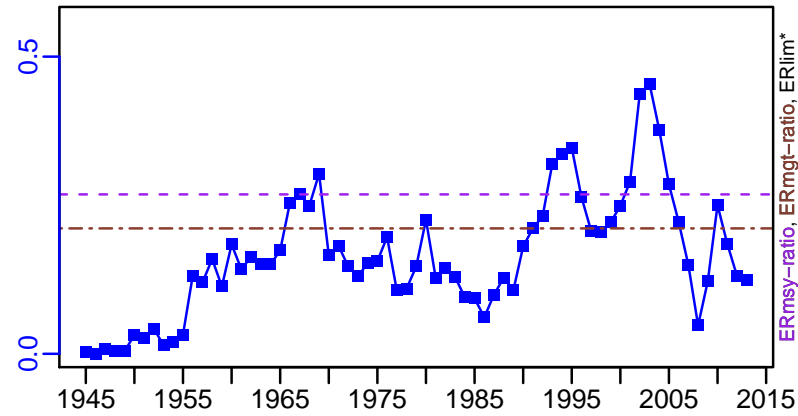
TN *



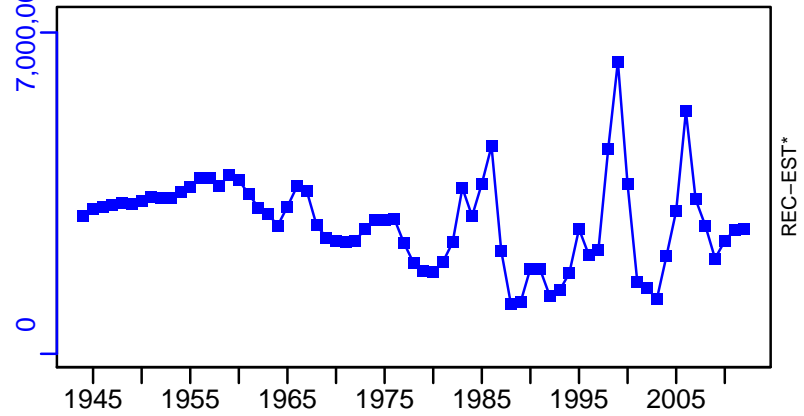
F*



ER-ratio (1944–2014–OSGOOD)



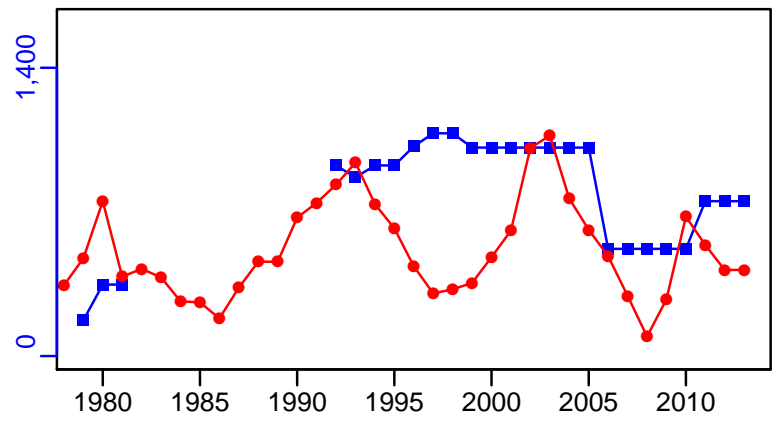
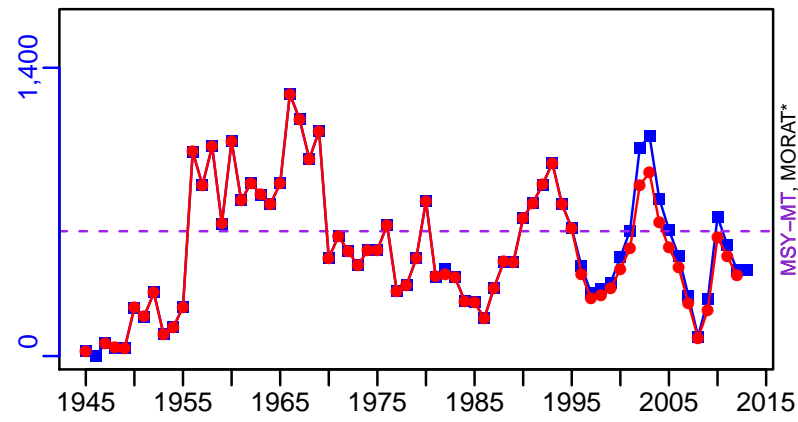
R-E00 (1944–2014–OSGOOD)



Rock sole Queen Charlotte Sound [RSOLE5AB]

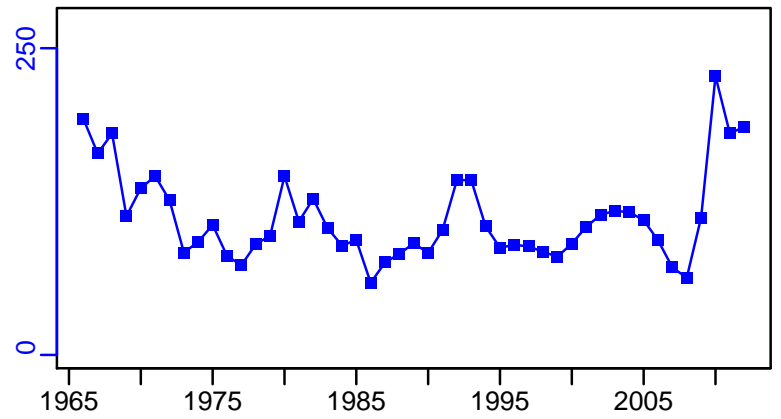
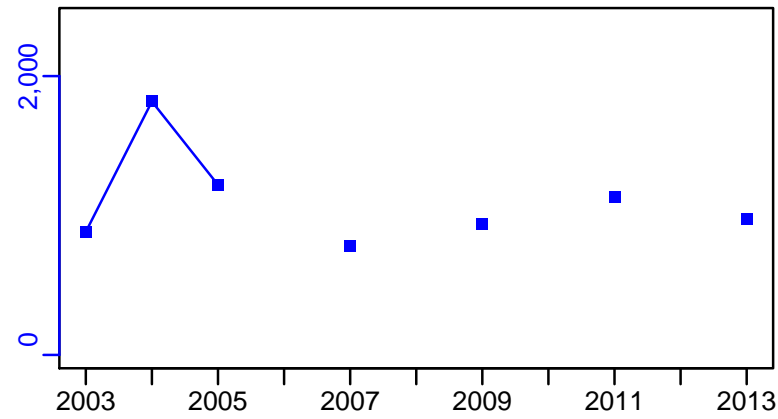
TC-MT, TL-MT, RecC* (1944-2014-OSGOOD)

TAC-MT, Cpair-MT, Cadv* (1944-2014-OSGOOD)

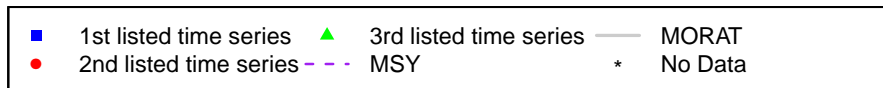


survB-MT (1944-2014-OSGOOD)

CPUE-kg/hour (1944-2014-OSGOOD)



EFFORT*



Rock sole Hecate Strait [RSOLEHSTR]

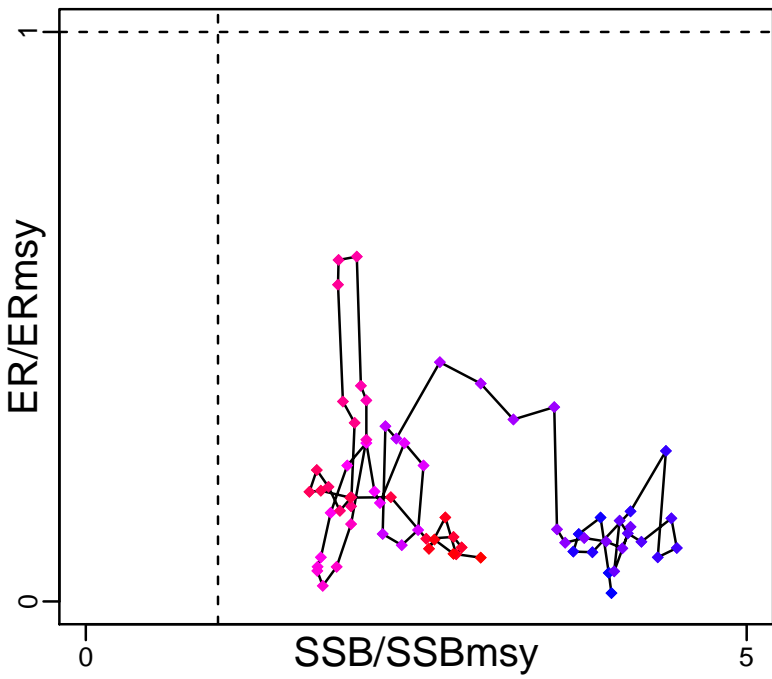
Metadata	
Scientific Name	Lepidopsetta bilineata
Current Assess ID	DFO-PAC-RSOLEHSTR-1945-2014-OSGOOD
Area	Hecate Strait
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Pacific Region
Asmts in RAM	2001, 2014

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2001	4626
SSBmsy	SSBmsy-MT	2014	4853
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2014	0.51
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2014	3883
Fmgt	-	-	-
ERmgt	ERmgt-ratio	2014	0.12
TB0	-	-	-
SSB0	SSB0-MT	2014	19,329
MSY	MSY-MT	2014	1895
M	M-1/yr	2014	0.25
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

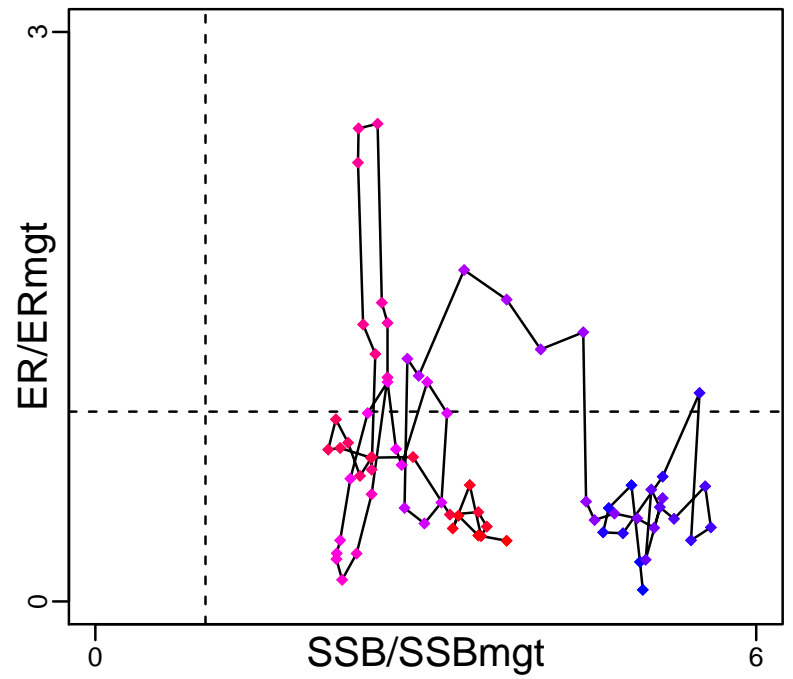
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2001	4850	-	4+
SSB	SSB-MT	2014	15,400	Females	5.6
TN	-	-	-	-	-
R	R-E00	2014	17,000	-	-
F	F-1/yr	2001	0	-	-
ER	ER-ratio	2014	0	Females	-
TC	TC-MT	2014	594		
TL	TL-MT	2014	500		
TB/TBmsy	TB-MT/TBmsy-est-MT	2001	1.05		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2014	3.17		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2014	0.08		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2014	3.97		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Rock sole Hecate Strait [RSOLEHSTR]

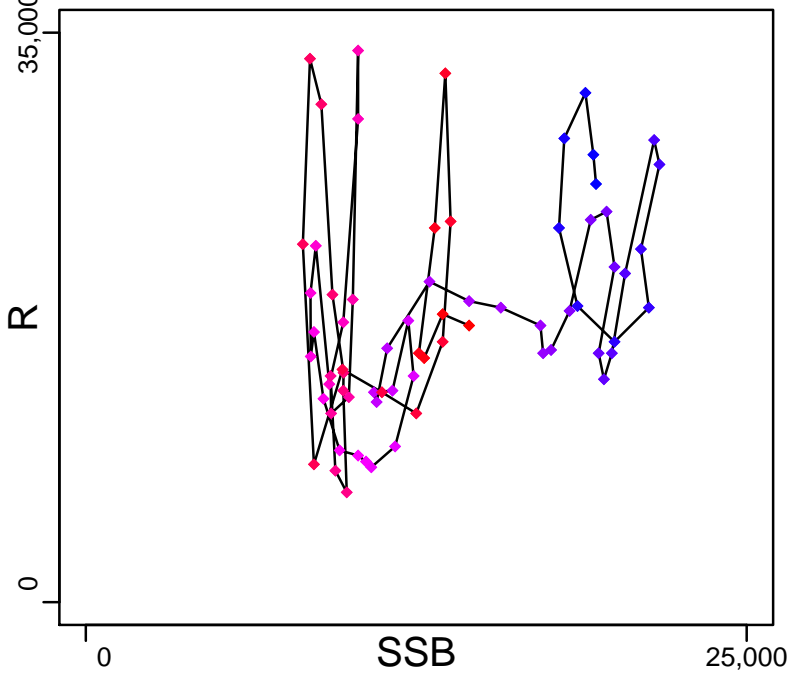
Kobe MSYpref (1945–2014–OSGOOD)



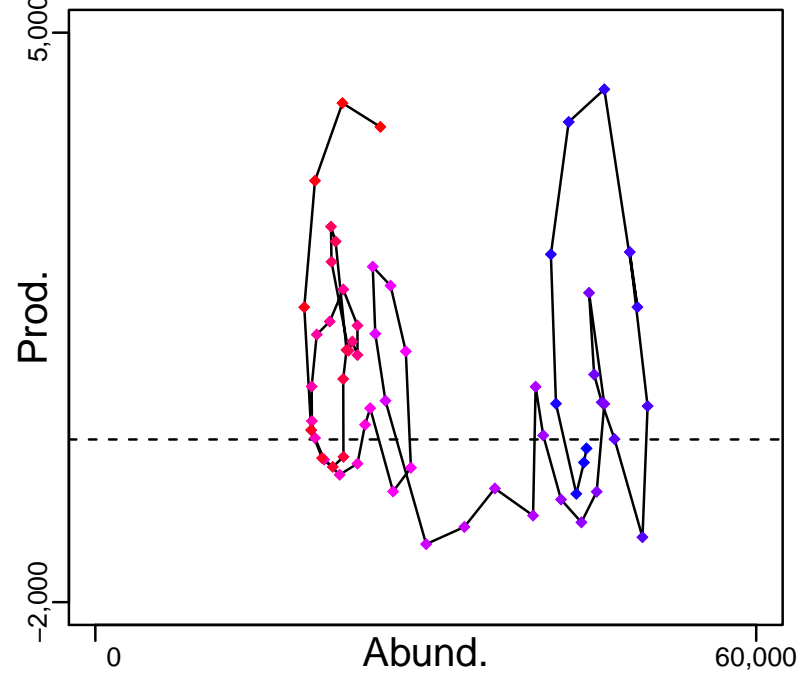
Kobe MGTpref (1945–2014–OSGOOD)



Spawner Recruit (1945–2014–OSGOOD)



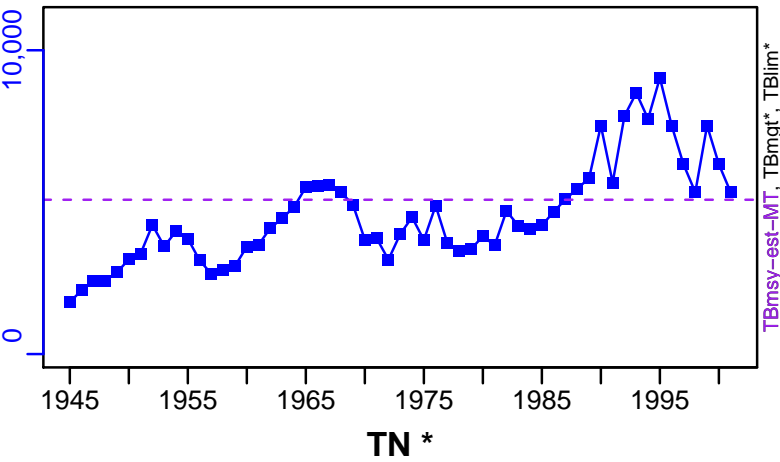
Production (1945–2014–OSGOOD)



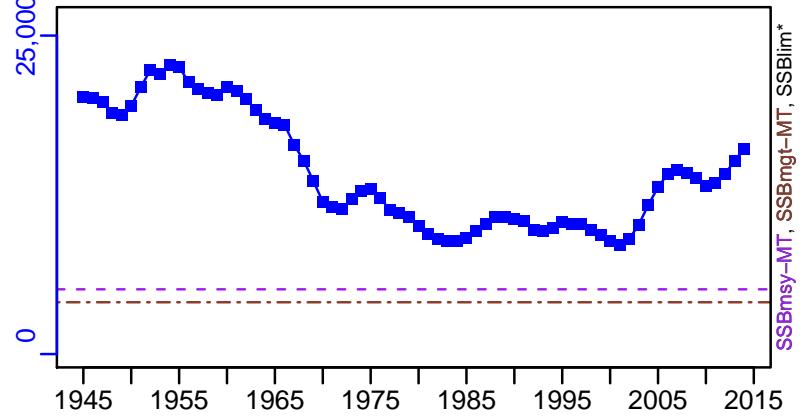
◆ Start Year ◆ End Year * No Data

Rock sole Hecate Strait [RSOLEHSTR]

TB-MT (1945–2001–COLLIE)



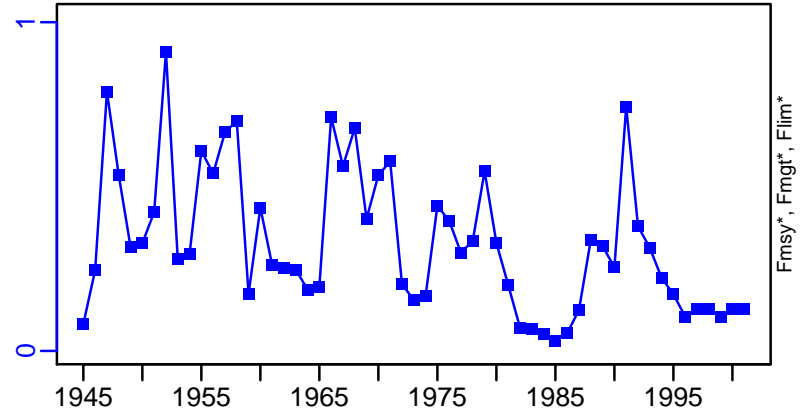
SSB-MT (1945–2014–OSGOOD)



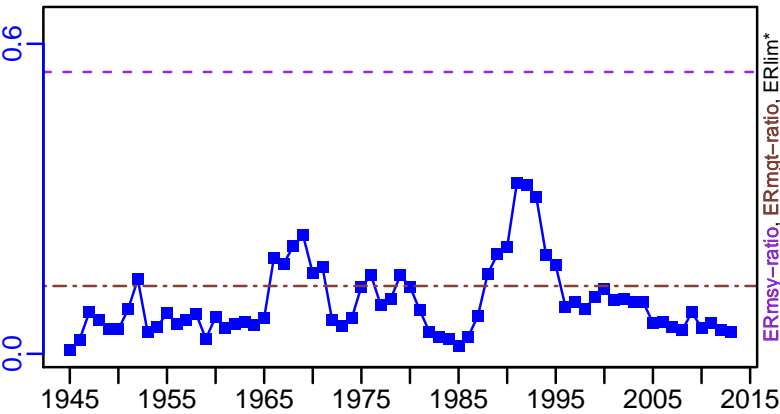
TN *



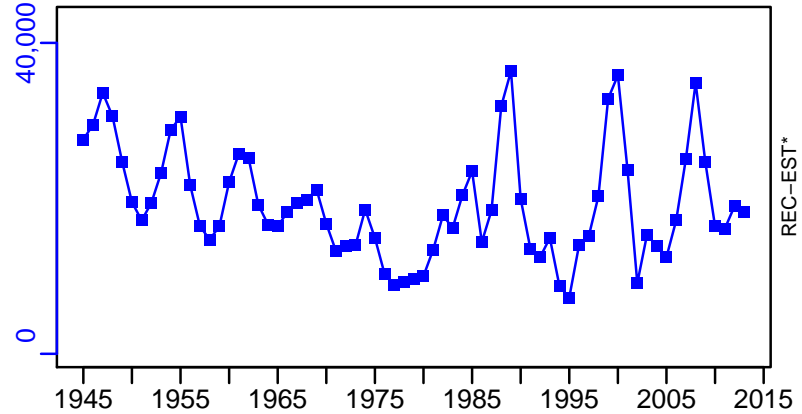
F-1/yr (1945–2001–COLLIE)



ER-ratio (1945–2014–OSGOOD)



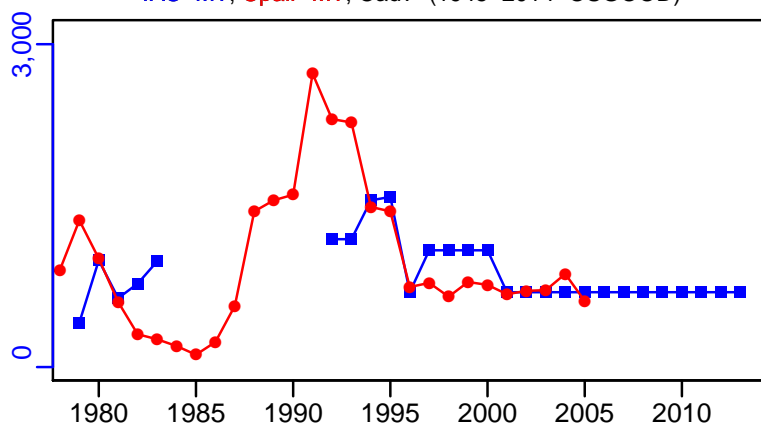
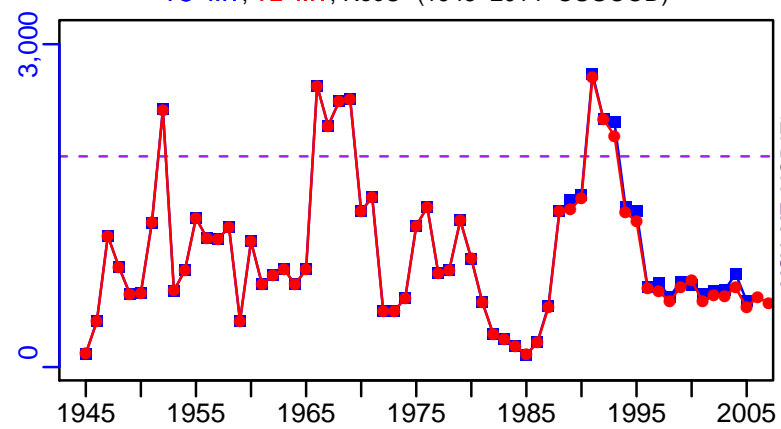
R-E00 (1945–2014–OSGOOD)



Rock sole Hecate Strait [RSOLEHSTR]

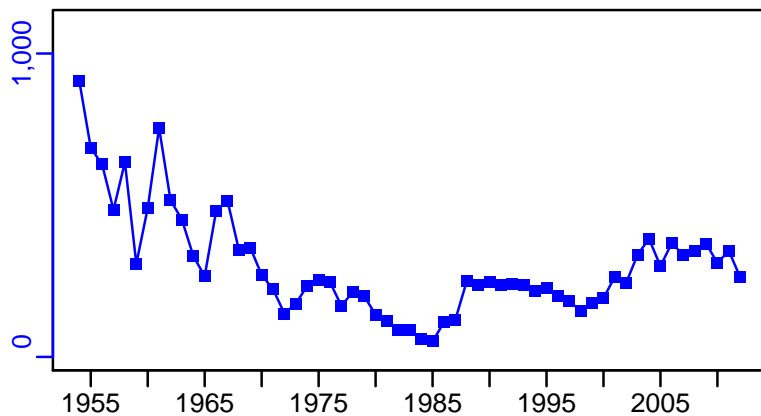
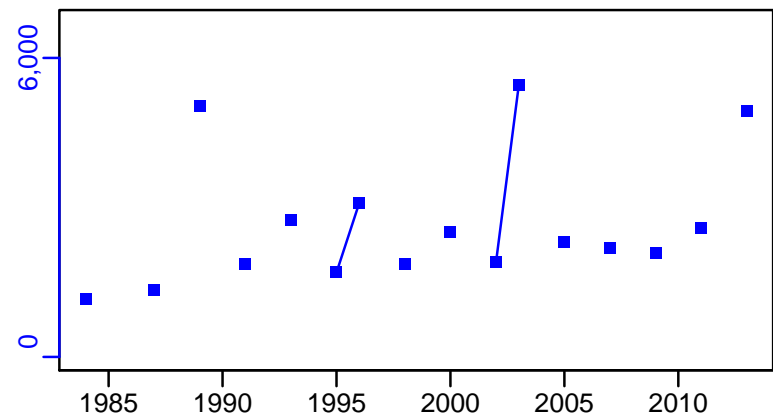
TC-MT, TL-MT, RecC* (1945-2014-OSGOOD)

TAC-MT, Cpair-MT, Cadv* (1945-2014-OSGOOD)

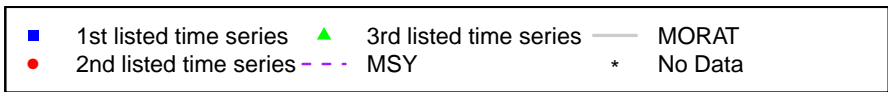
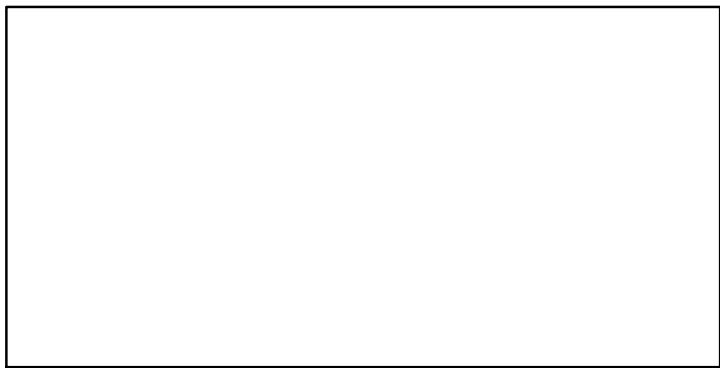


survB-MT (1945-2014-OSGOOD)

CPUE-kg/hour (1945-2014-OSGOOD)



EFFORT*



Sablefish Pacific Coast of Canada [SABLEFPCAN]

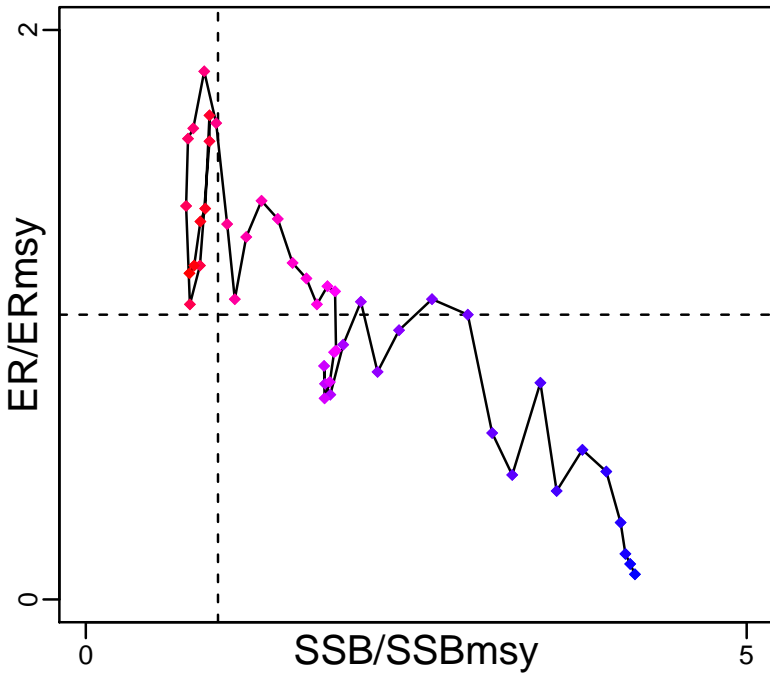
Metadata	
Scientific Name	Anoplopoma fimbria
Current Assess ID	DFO-PAC-SABLEFPCAN-1913-2010-HIVELY
Area	Pacific Coast of Canada
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Pacific Region
Asmts in RAM	2010

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2010	27,680
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2010	0.11
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	SSB0-MT	2010	114,770
MSY	MSY-MT	2010	3230
M	M-1/yr	2010	0.06
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

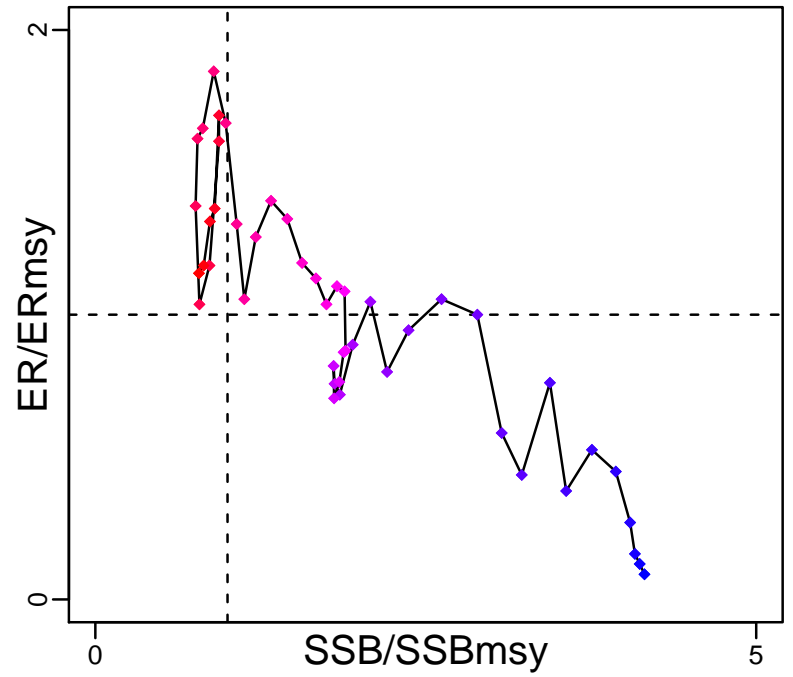
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2010	28,500	-	-
SSB	SSB-MT	2010	21,700	-	-
TN	-	-	-	-	-
R	R-E00	2010	1,770,000	-	-
F	-	-	-	-	-
ER	ER-ratio	2010	0	-	-
TC	-	-	-		
TL	TL-MT	2010	2080		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2010	0.78		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2010	1.15		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Sablefish Pacific Coast of Canada [SABLEFPCAN]

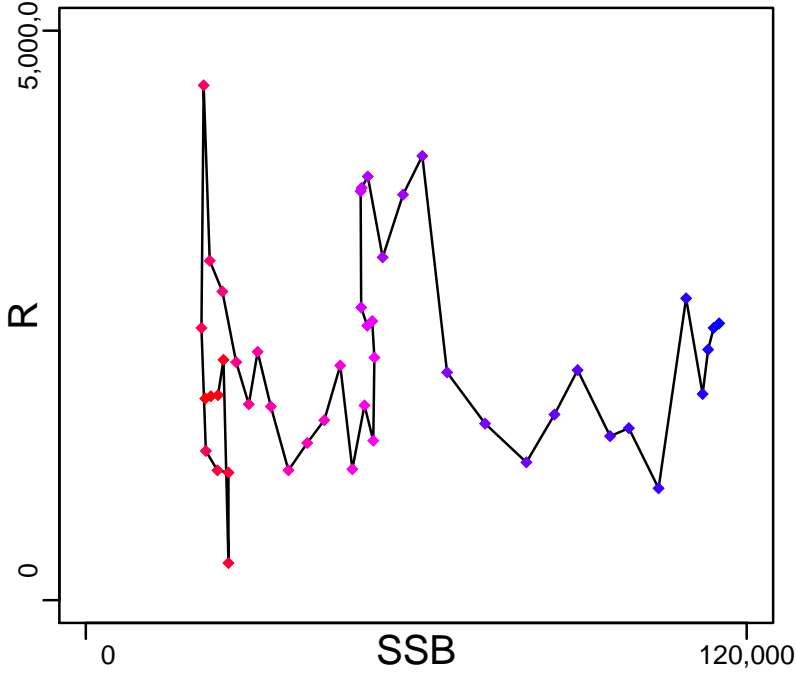
Kobe MSYpref (1913–2010–HIVELY)



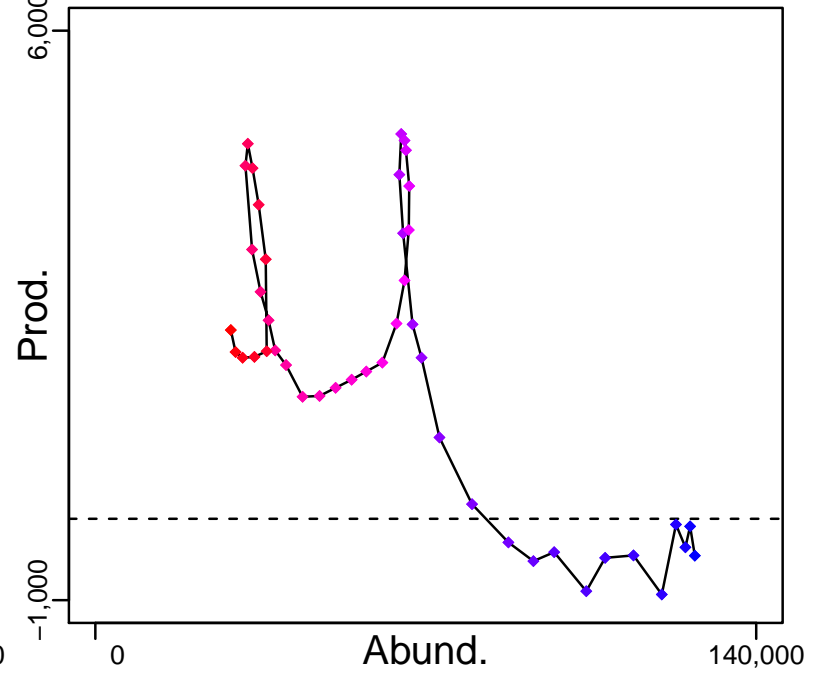
Kobe MGTpref (1913–2010–HIVELY)



Spawner Recruit (1913–2010–HIVELY)



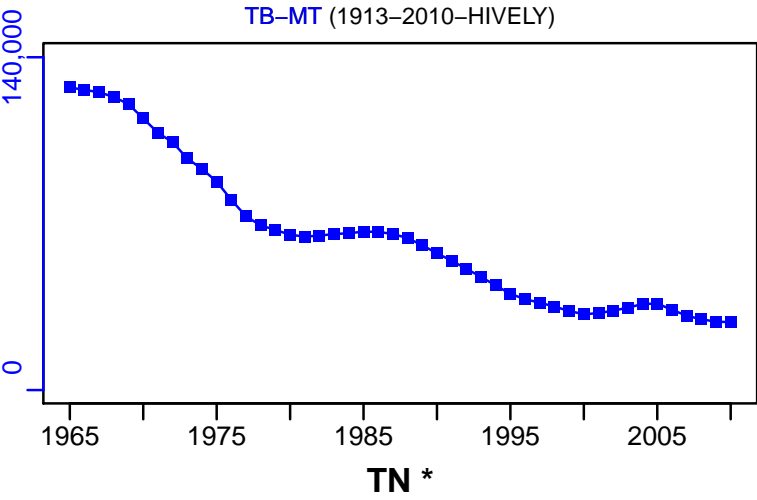
Production (1913–2010–HIVELY)



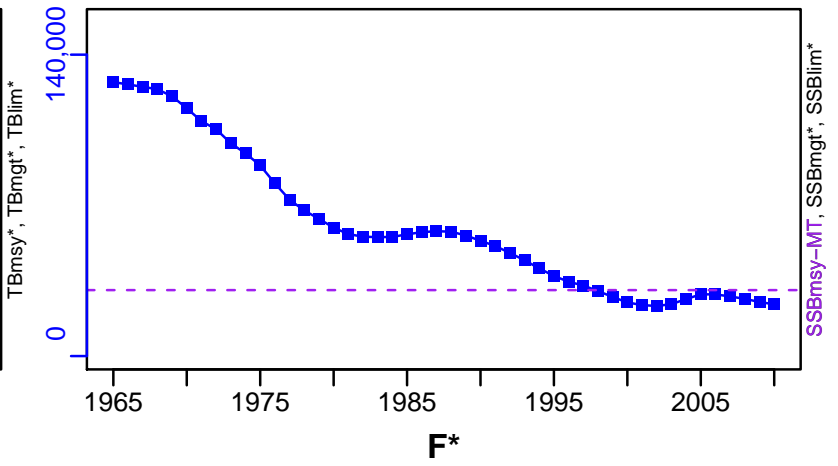
◆ Start Year ◆ End Year * No Data

Sablefish Pacific Coast of Canada [SABLEFPCAN]

TB-MT (1913-2010-HIVELY)

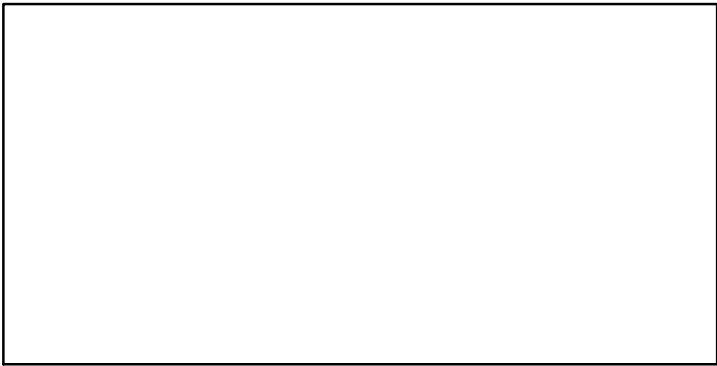


SSB-MT (1913-2010-HIVELY)

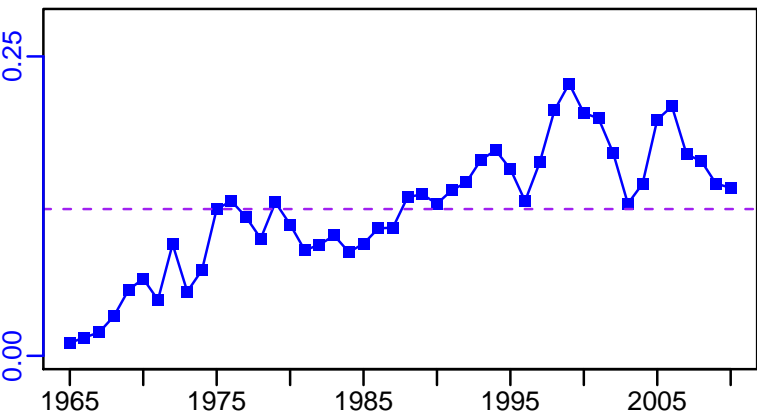


TN *

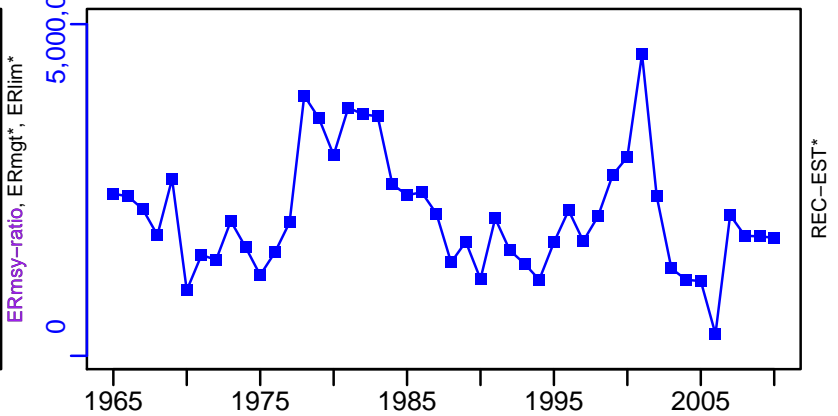
F*



ER-ratio (1913-2010-HIVELY)

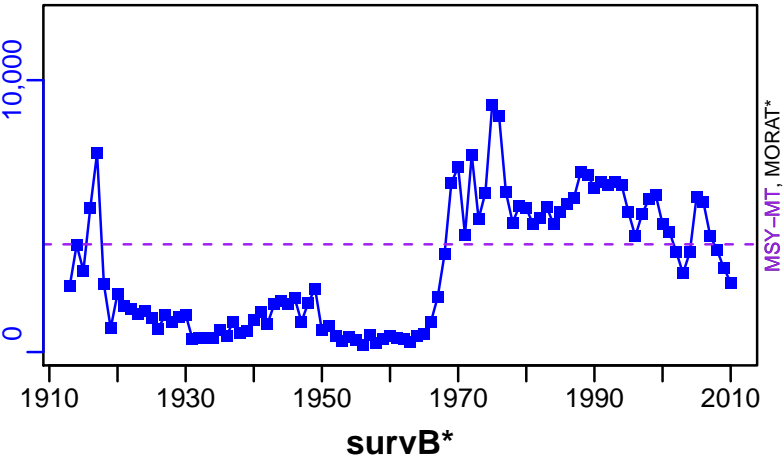


R-E00 (1913-2010-HIVELY)



Sablefish Pacific Coast of Canada [SABLEFPCAN]

TL-MT, TC*, RecC* (1913-2010-HIVELY)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Pacific sardine British Columbia [SARDBC]

Metadata	
Scientific Name	Sardinops sagax
Current Assess ID	DFO-PAC-SARDBC-2002-2012-OSGOOD
Area	Pacific Coast of Canada
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Pacific Region
Asmts in RAM	2012

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2012	19,100		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



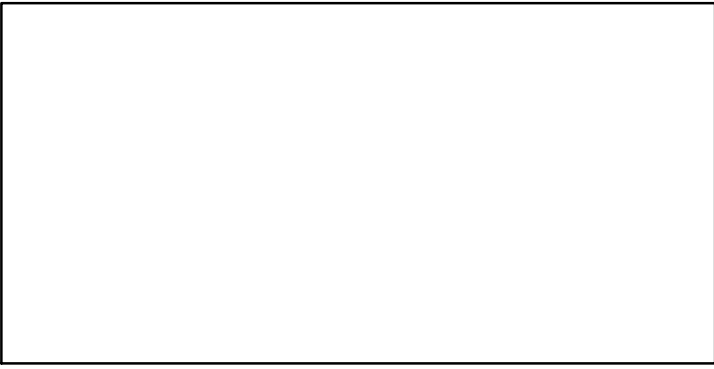
Production*



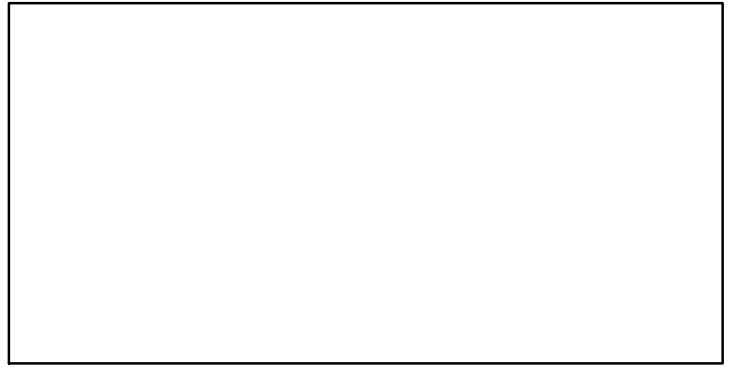
◆ Start Year ◆ End Year * No Data

Pacific sardine British Columbia [SARDBC]

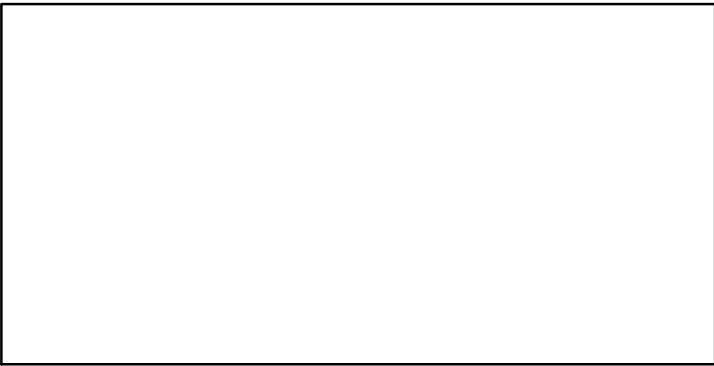
TB*



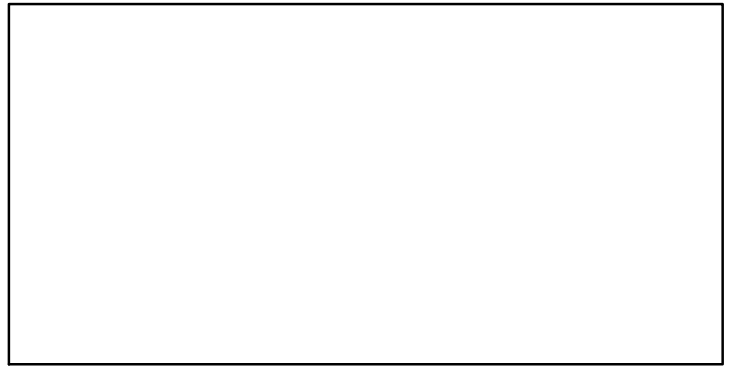
SSB*



TN *



F*



ER*

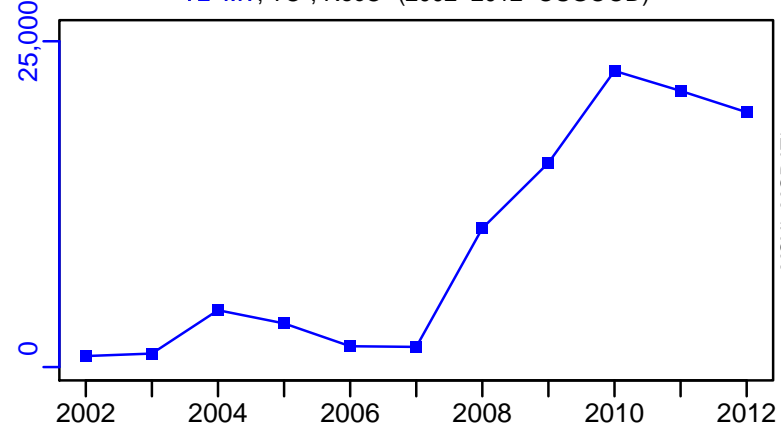


Recruits*

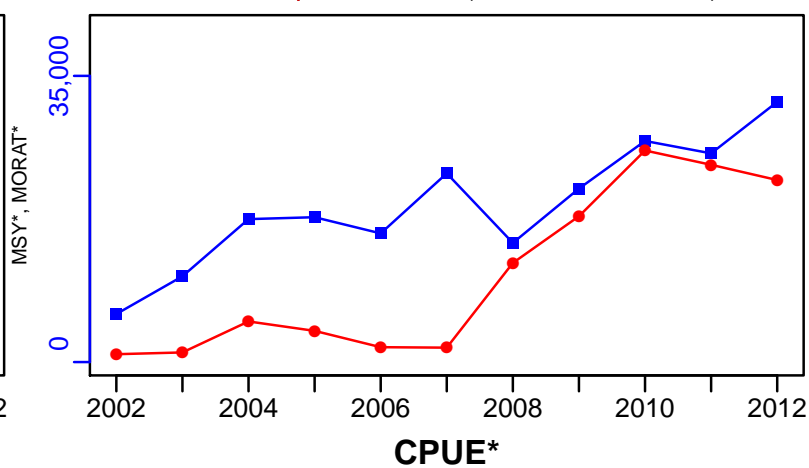


Pacific sardine British Columbia [SARDBC]

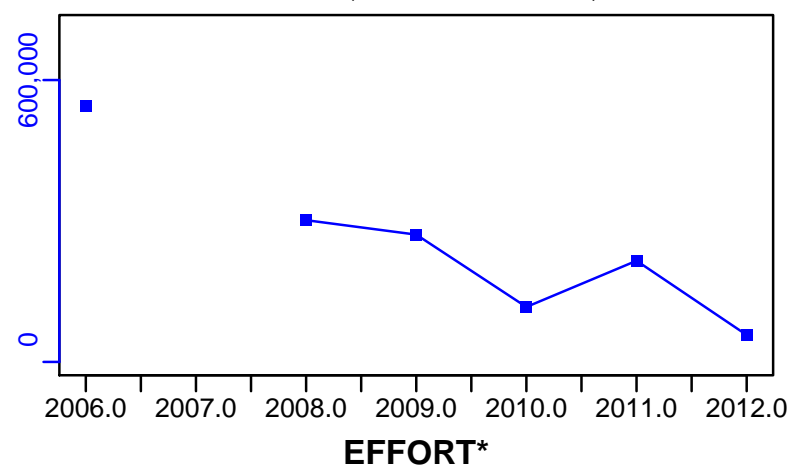
TL-MT, TC*, RecC* (2002-2012-OSGOOD)



TAC-MT, Cpair-MT, Cadv* (2002-2012-OSGOOD)



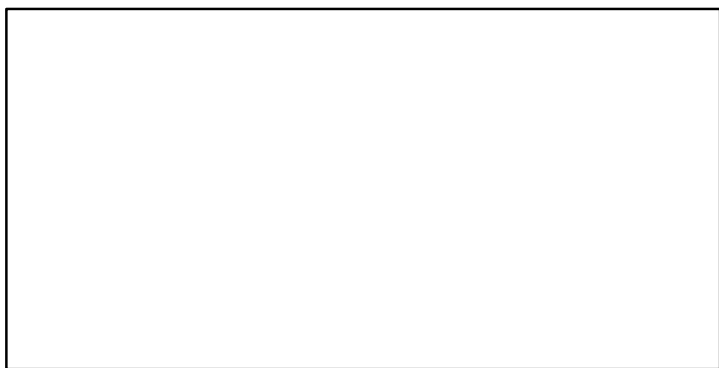
survB-MT (2002-2012-OSGOOD)



CPUE*



EFFORT*



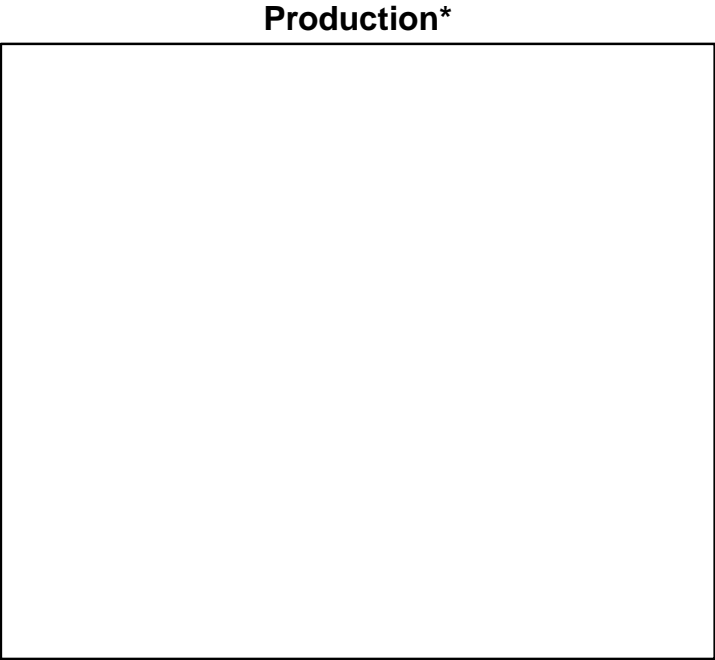
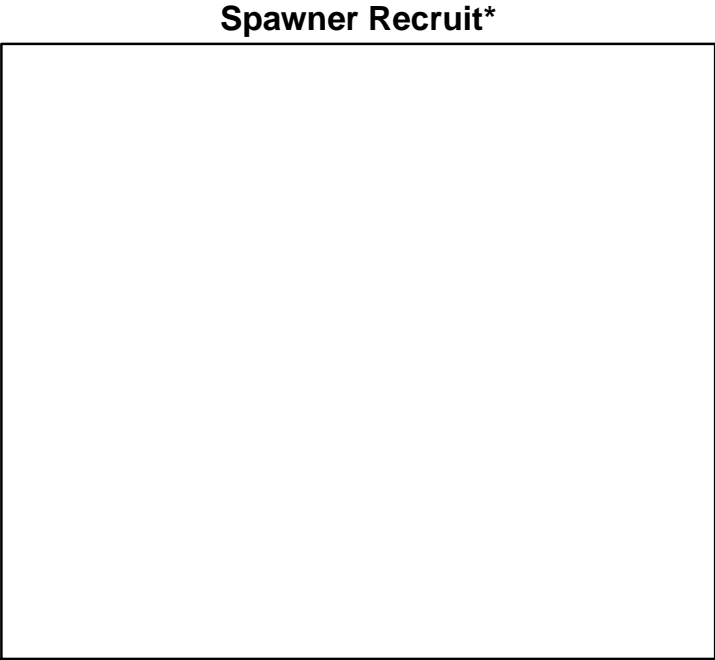
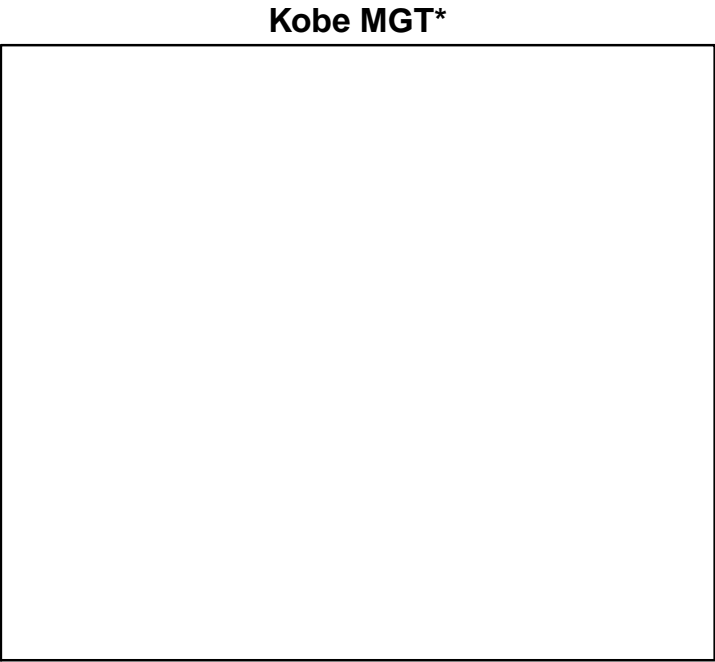
■ 1st listed time series ▲ 3rd listed time series — MORAT
● 2nd listed time series - - - MSY * No Data

Sidestripe shrimp SMA GTSE [SSHRIMPSMAGTSE]

Metadata	
Scientific Name	Pandalopsis dispar
Current Assess ID	DFO-SSHRIMPSMAGTSE-1992-2011-WATSON
Area	Shrimp Management Area GTSE
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans
Asmts in RAM	2011

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

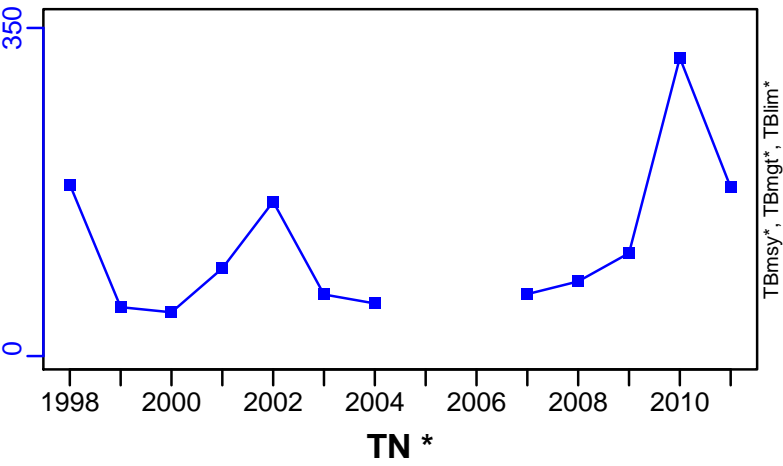
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2011	177	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2011	0	-	-
TC	-	-	-		
TL	TL-MT	2011	16.1		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



◆ Start Year ◆ End Year * No Data

Sidestripe shrimp SMA GTSE [SSHRIMPSMAGTSE]

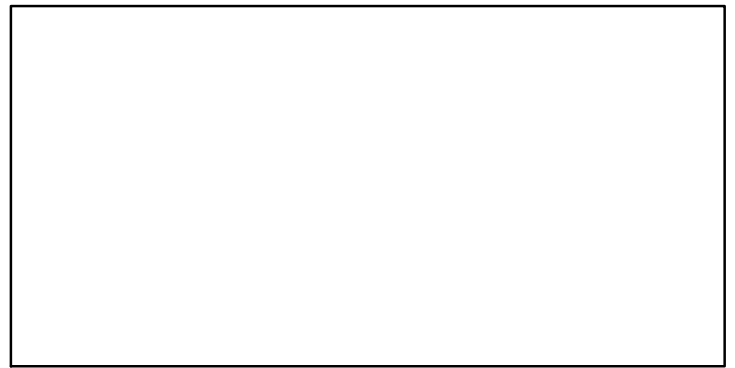
TB-MT (1992-2011-WATSON)



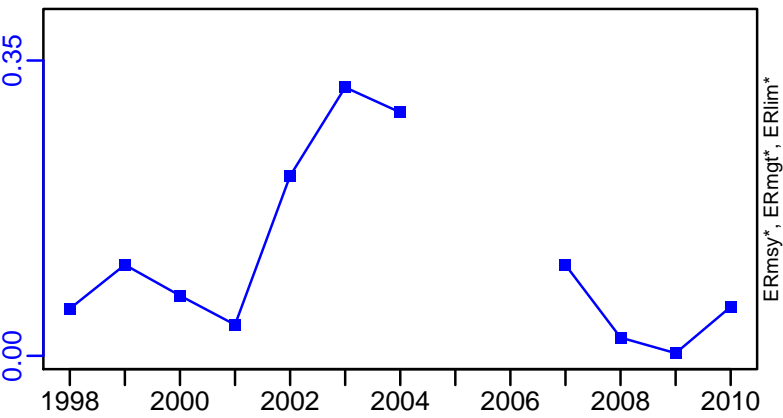
SSB*



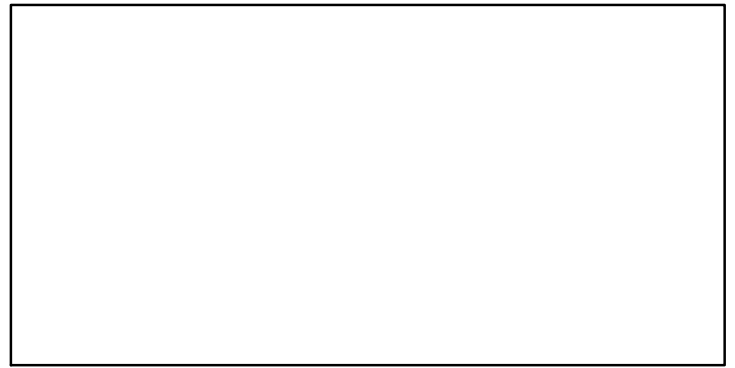
F*



ER-calc-ratio (1992-2011-WATSON)



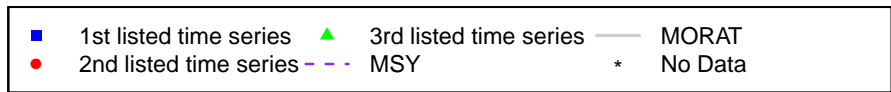
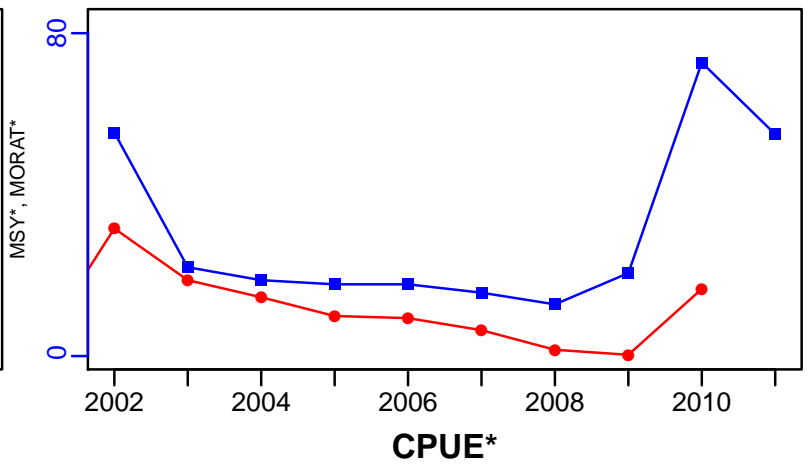
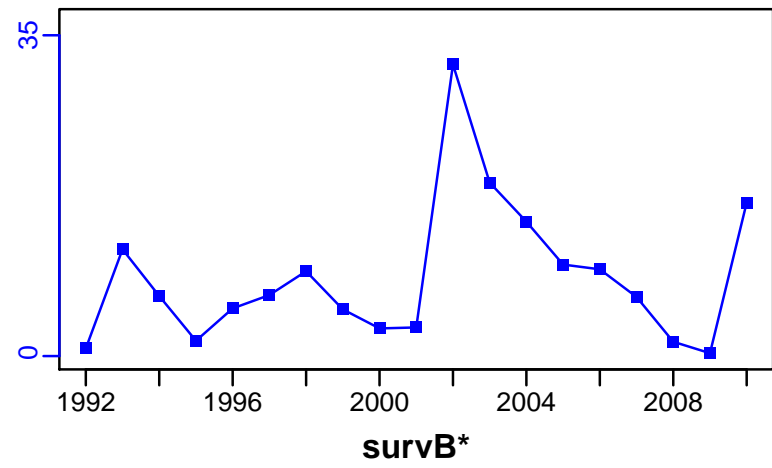
Recruits*



Sidestripe shrimp SMA GTSE [SSHRIMPSMAGTSE]

TL-MT, TC*, RecC* (1992-2011-WATSON)

TAC-MT, Cpair-MT, Cadv* (1992-2011-WATSON)



Sidestripe shrimp SMA PRD [SSHRIMPSMAPRD]

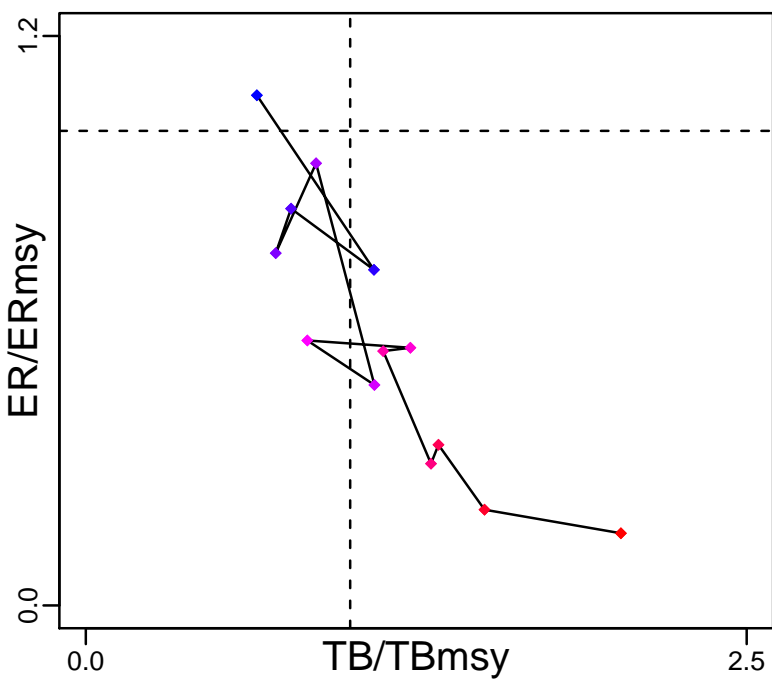
Metadata	
Scientific Name	Pandalopsis dispar
Current Assess ID	DFO-SSHRIMPSMAPRD-1987-2011-WATSON
Area	Shrimp Management Area PRD
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans
Asmts in RAM	2011

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2011	603
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-est-ratio	2011	0.29
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2011	173
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

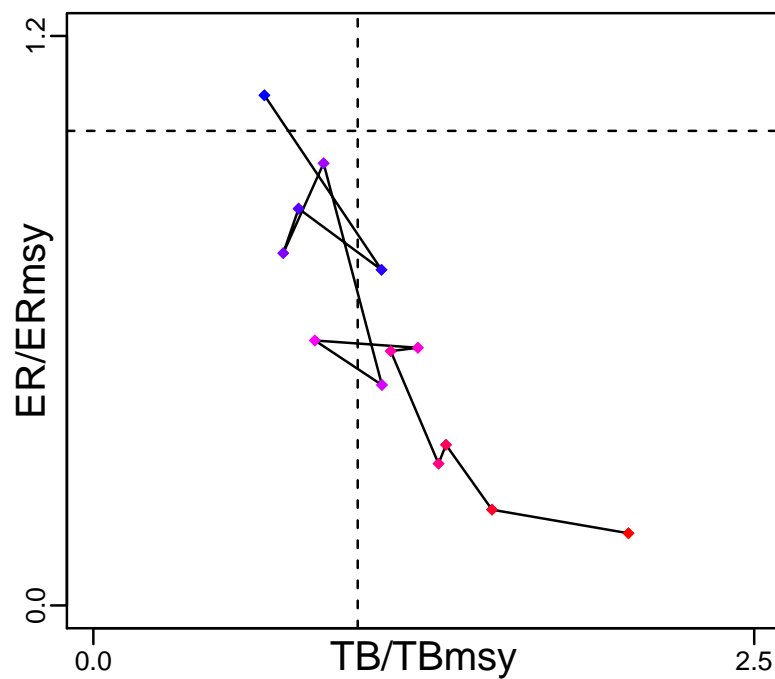
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2011	970	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2011	0	-	-
TC	-	-	-	-	-
TL	TL-MT	2011	53.1	-	-
TB/TBmsy	TB-MT/TBmsy-est-MT	2011	1.61	-	-
SSB/SSBmsy	-	-	-	-	-
F/Fmsy	-	-	-	-	-
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2011	0.15	-	-
TB/TBmgt	-	-	-	-	-
SSB/SSBmgt	-	-	-	-	-
F/Fmgt	-	-	-	-	-
ER/ERmgt	-	-	-	-	-

Sidestripe shrimp SMA PRD [SSHRIMPSMAPRD]

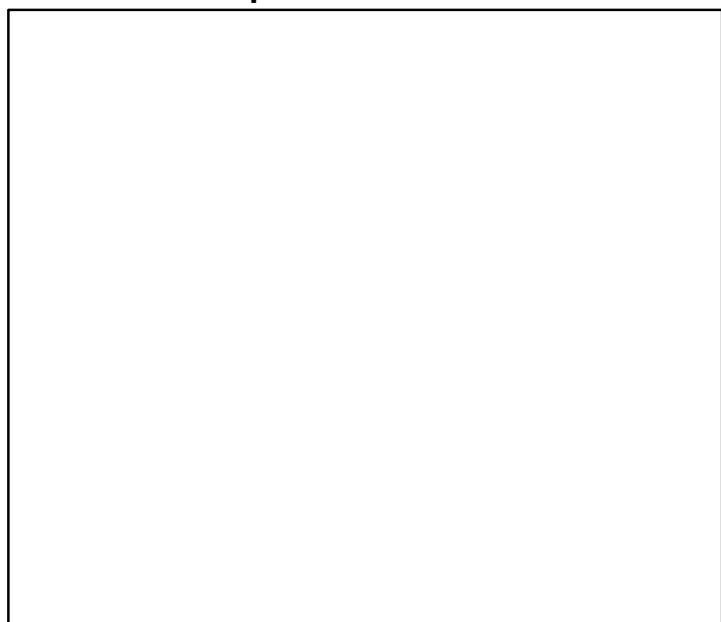
Kobe MSYpref (1987–2011–WATSON)



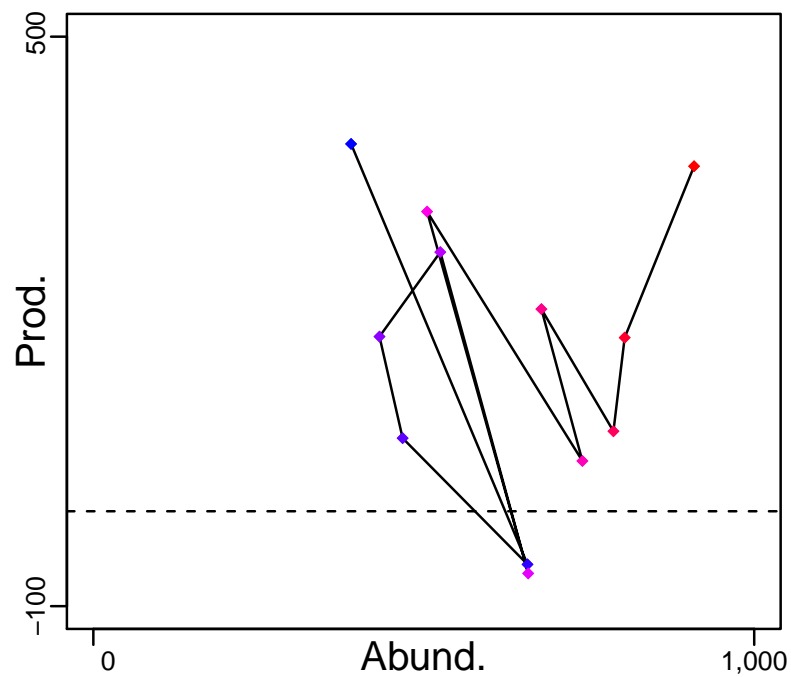
Kobe MGTpref (1987–2011–WATSON)



Spawner Recruit*



Production (1987–2011–WATSON)

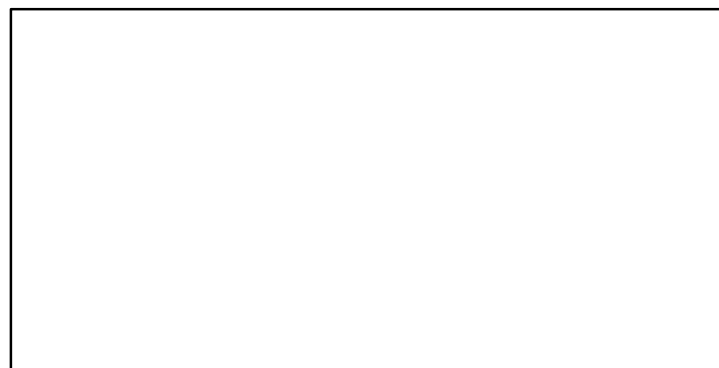
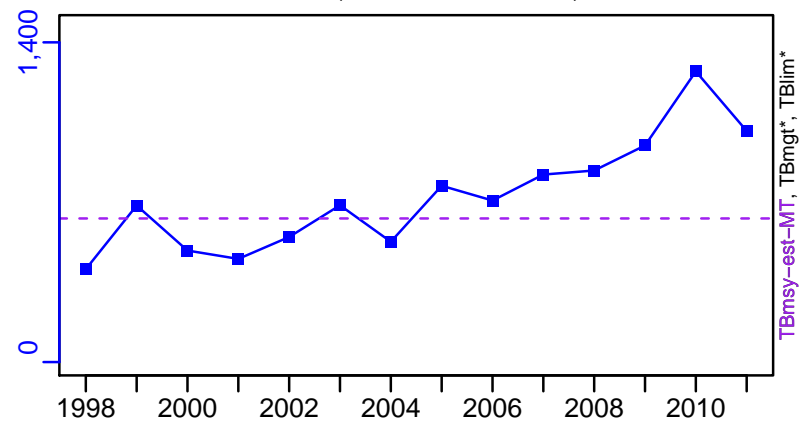


◆ Start Year ◆ End Year * No Data

Sidestripe shrimp SMA PRD [SSHRIMPSMAPRD]

TB-MT (1987-2011-WATSON)

SSB*



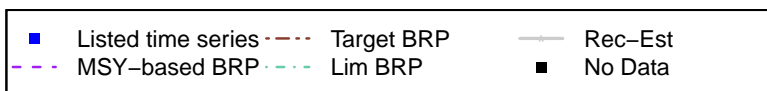
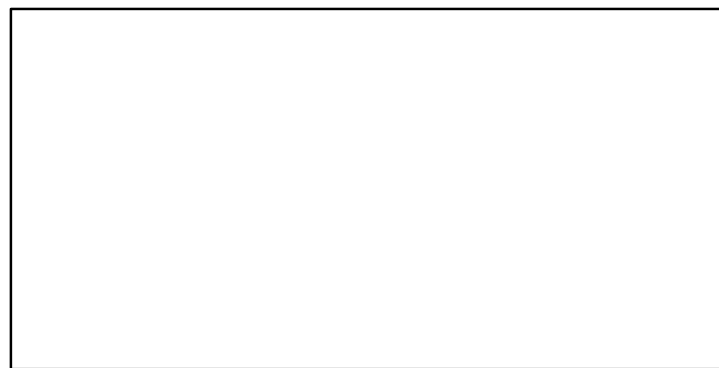
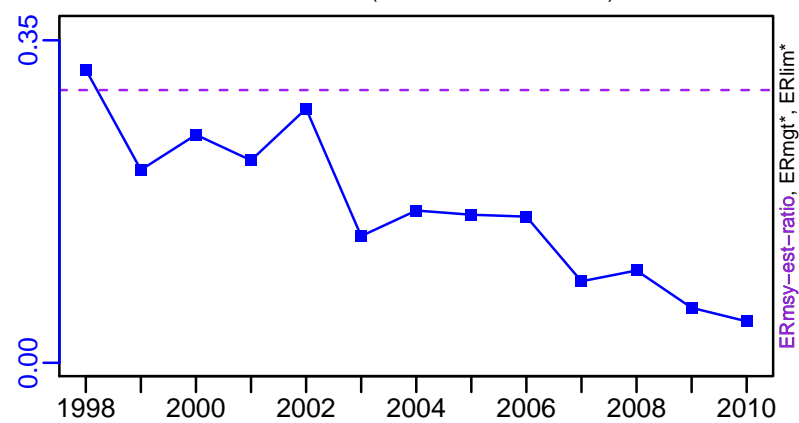
TN *

F*



ER-calc-ratio (1987-2011-WATSON)

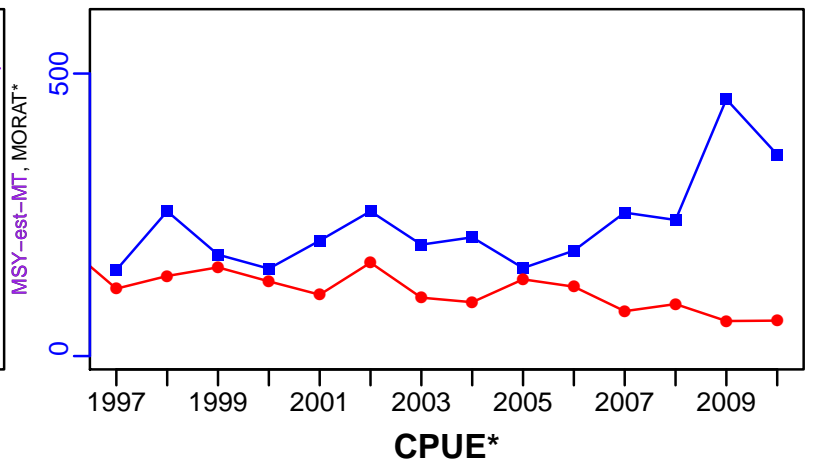
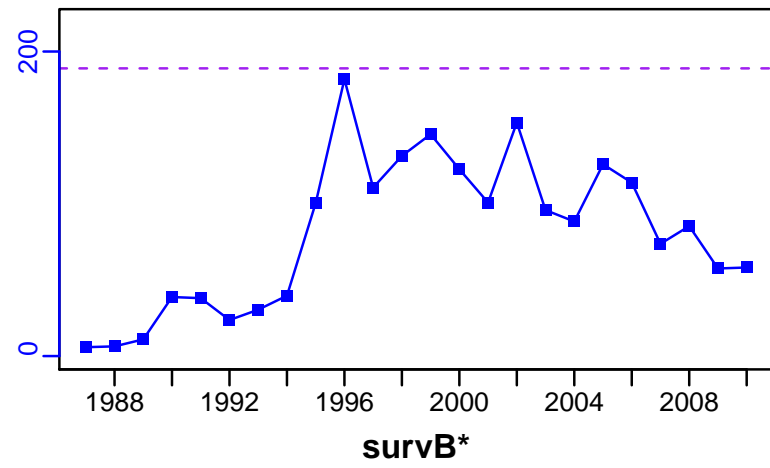
Recruits*



Sidestripe shrimp SMA PRD [SSHRIMPSMAPRD]

TL-MT, TC*, RecC* (1987-2011-WATSON)

TAC-MT, Cpair-MT, Cadv* (1987-2011-WATSON)



EFFORT*



Sidestripe shrimp SMA 14 [SSSHRIMPSMA14]

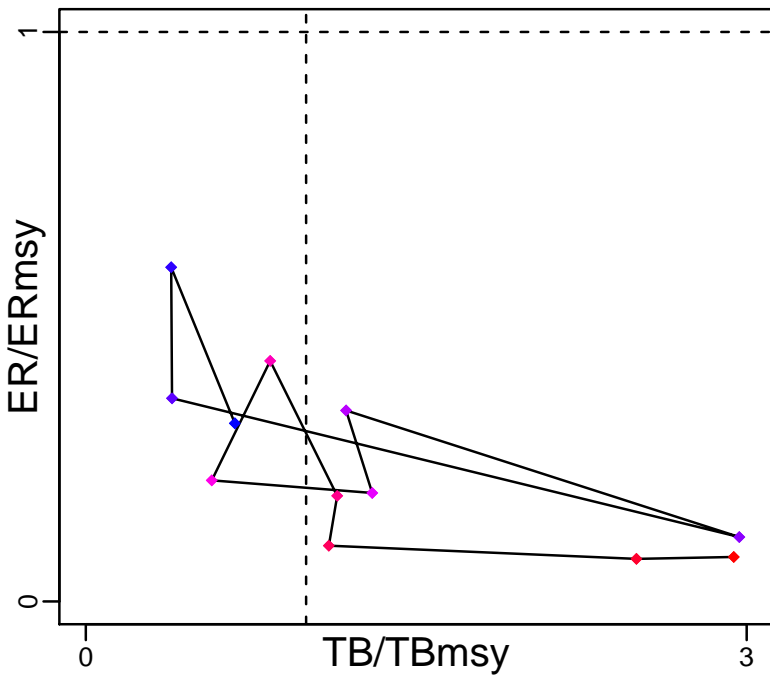
Metadata	
Scientific Name	Pandalopsis dispar
Current Assess ID	DFO-SSSHRIMPSMA14-1987-2011-WATSON
Area	Shrimp Management Area 14
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans
Asmts in RAM	2011

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2011	79
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-est-ratio	2011	0.56
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2011	44
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2011	125	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2011	0	-	-
TC	-	-	-	-	-
TL	TL-MT	2011	10.2	-	-
TB/TBmsy	TB-MT/TBmsy-est-MT	2011	1.58	-	-
SSB/SSBmsy	-	-	-	-	-
F/Fmsy	-	-	-	-	-
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2011	0.08	-	-
TB/TBmgt	-	-	-	-	-
SSB/SSBmgt	-	-	-	-	-
F/Fmgt	-	-	-	-	-
ER/ERmgt	-	-	-	-	-

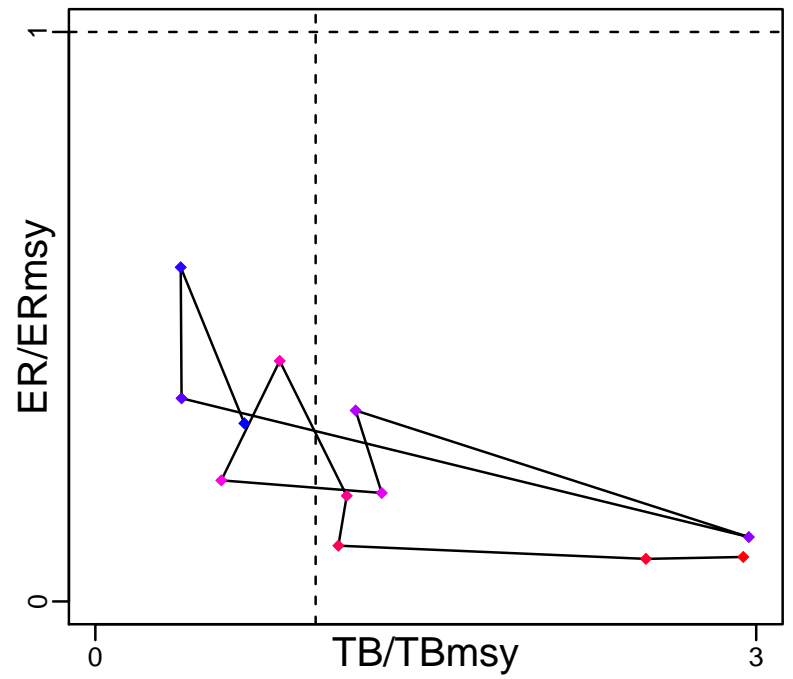
Sidestripe shrimp SMA 14 [SSSHRIMPSMA14]

Kobe MSY_{pref} (1987–2011–WATSON)

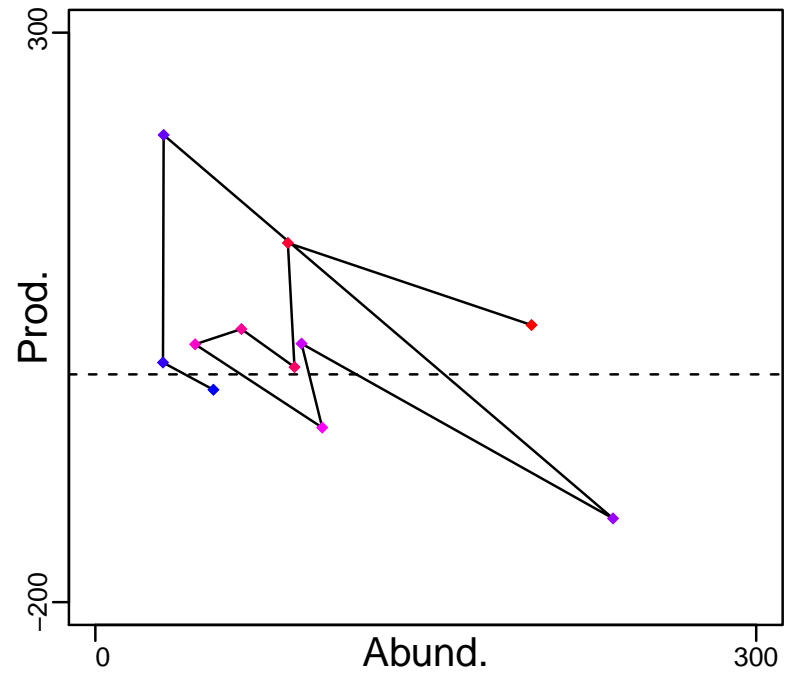


Spawner Recruit*

Kobe MGT_{pref} (1987–2011–WATSON)



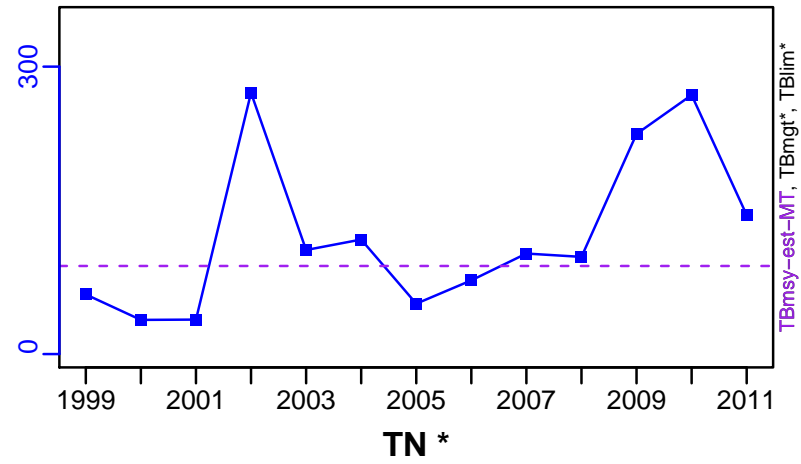
Production (1987–2011–WATSON)



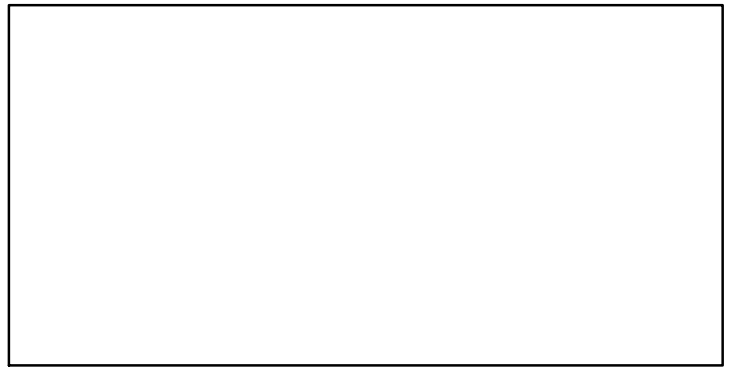
◆ Start Year ◆ End Year * No Data

Sidestripe shrimp SMA 14 [SSSHRIMPSMA14]

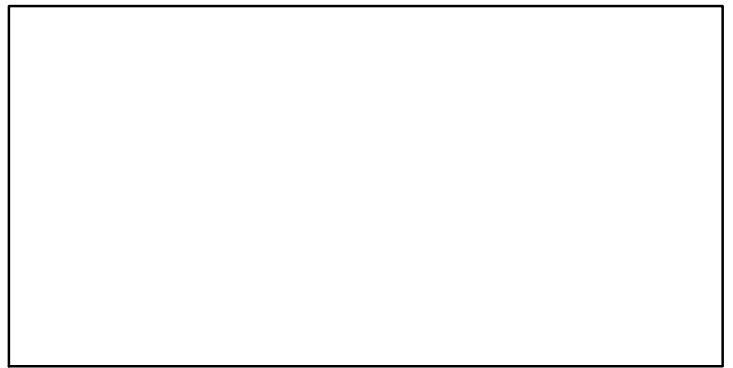
TB-MT (1987-2011-WATSON)



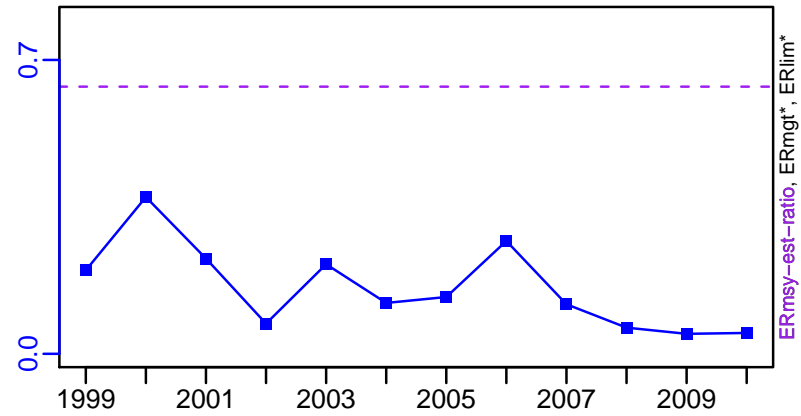
SSB*



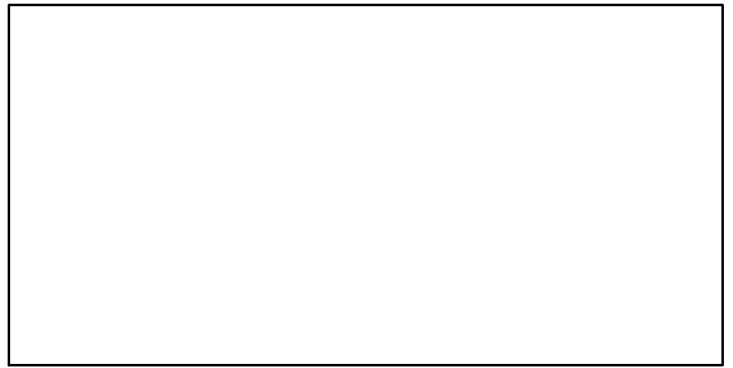
F*



ER-calc-ratio (1987-2011-WATSON)



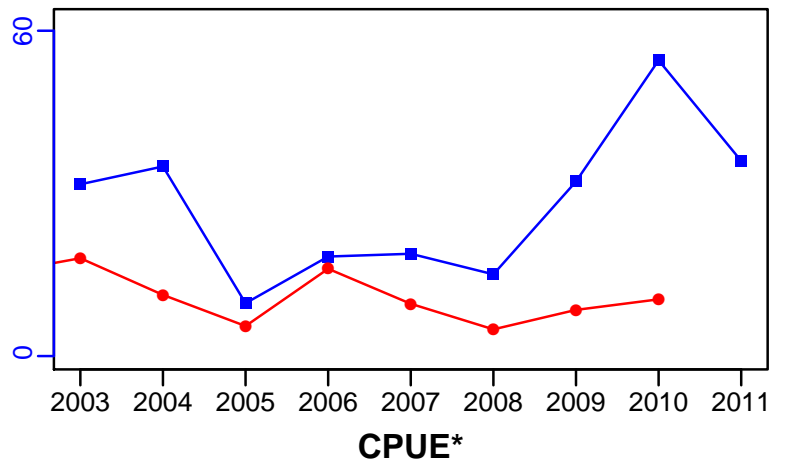
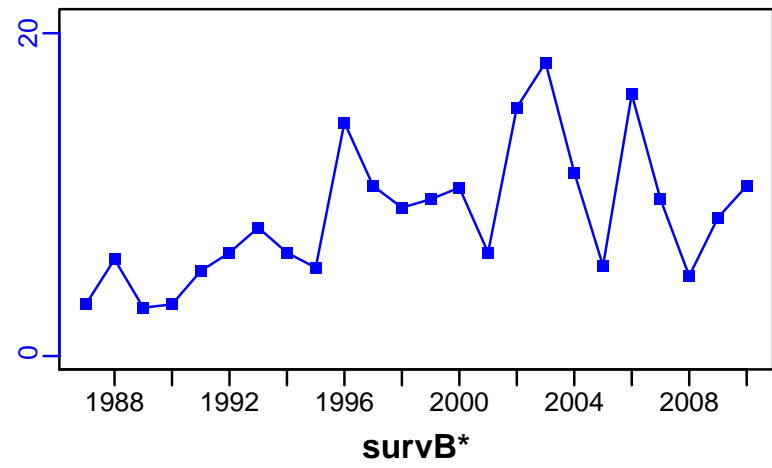
Recruits*



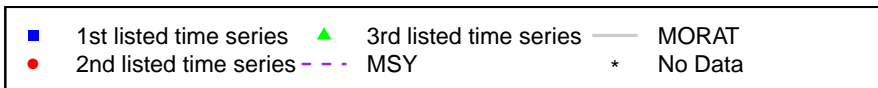
Sidestripe shrimp SMA 14 [SSSHRIMPSMA14]

TL-MT, TC*, RecC* (1987-2011-WATSON)

TAC-MT, Cpair-MT, Cadv* (1987-2011-WATSON)



EFFORT*



Sidestripe shrimp SMA 16 [SSSHRIMPSMA16]

Metadata	
Scientific Name	Pandalopsis dispar
Current Assess ID	DFO-SSSHRIMPSMA16-1987-2011-WATSON
Area	Shrimp Management Area 16
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans
Asmts in RAM	2011

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2011	34	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2011	0	-	-
TC	-	-	-		
TL	TL-MT	2011	5.7		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



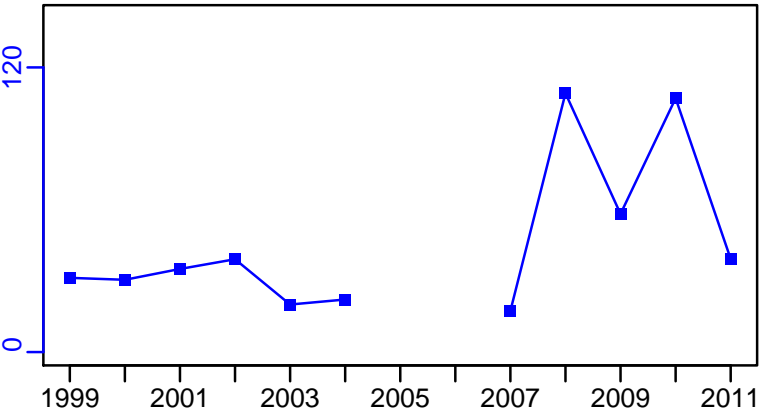
Production*



◆ Start Year ◆ End Year * No Data

Sidestripe shrimp SMA 16 [SSSHRIMPSMA16]

TB-MT (1987-2011-WATSON)



SSB*



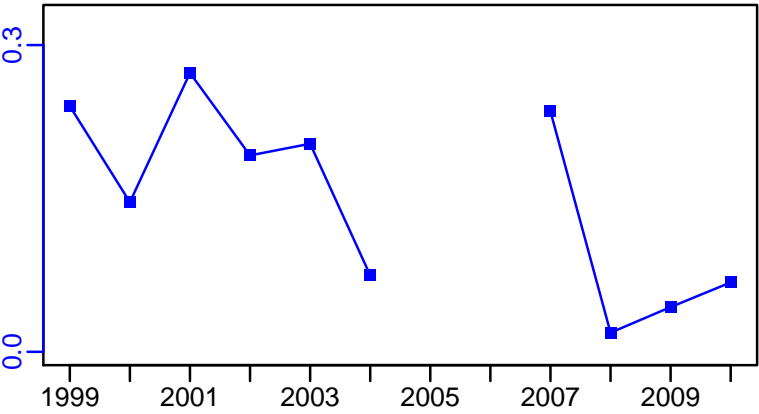
TN *



F*



ER-calc-ratio (1987-2011-WATSON)



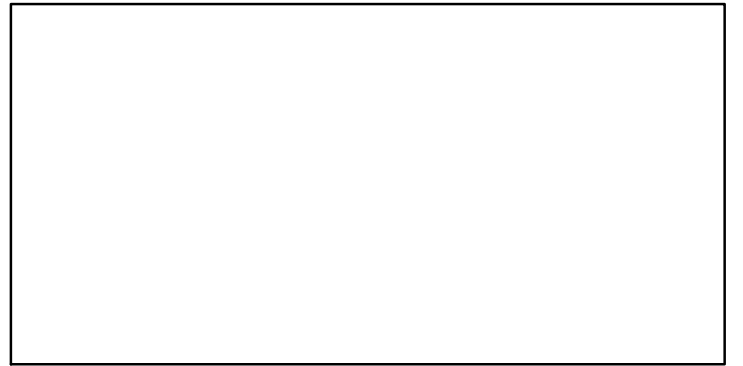
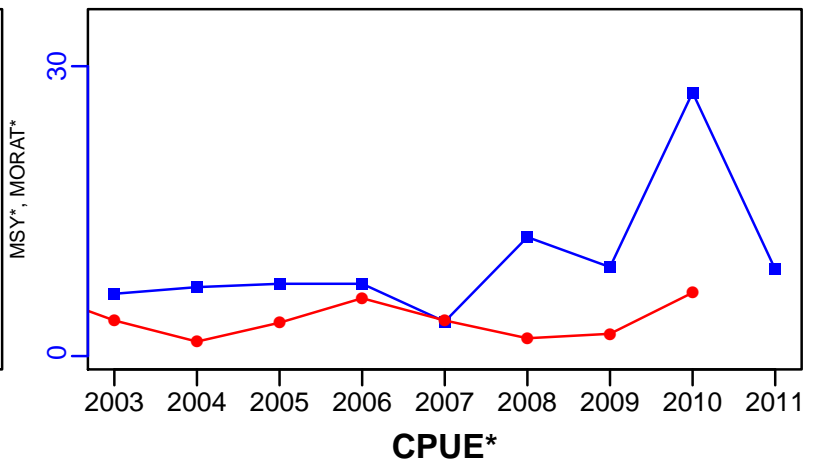
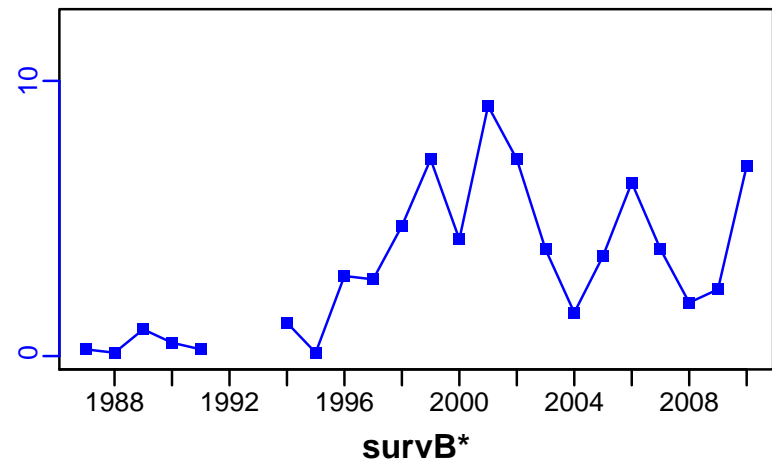
Recruits*



Sidestripe shrimp SMA 16 [SSSHRIMPSMA16]

TL-MT, TC*, RecC* (1987-2011-WATSON)

TAC-MT, Cpair-MT, Cadv* (1987-2011-WATSON)



EFFORT*



Sidestripe shrimp SMA 18-19 [SSSHRIMPSMA18-19]

Metadata	
Scientific Name	Pandalopsis dispar
Current Assess ID	DFO-SSSHRIMPSMA18-19-1987-2011-WATSON
Area	Shrimp Management Areas 18 and 19
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans
Asmts in RAM	2011

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



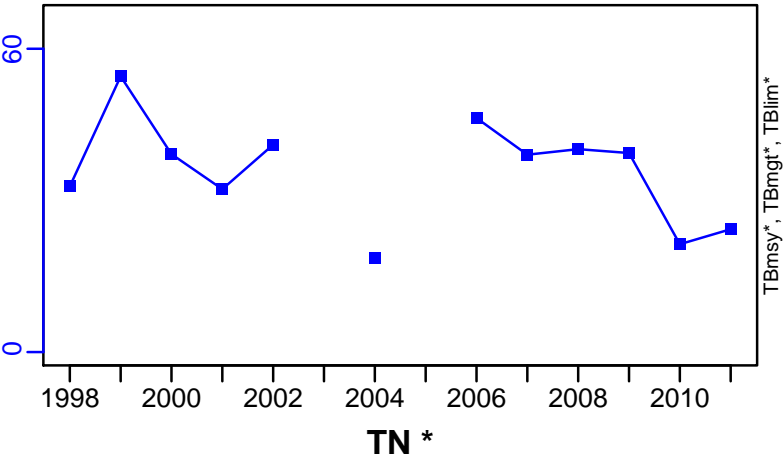
Production*



◆ Start Year	◆ End Year	* No Data
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Sidestripe shrimp SMA 18–19 [SSSHRIMPSMA18–19]

TB–MT (1987–2011–WATSON)



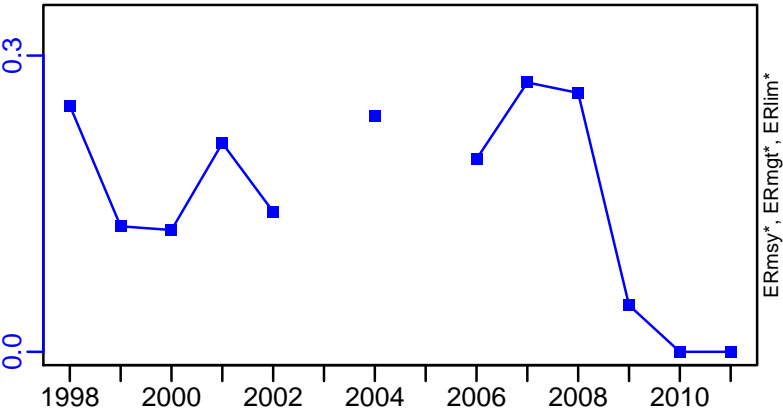
SSB*



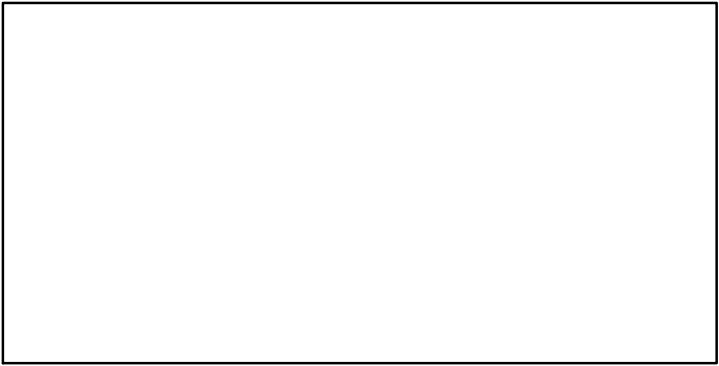
F*



ER–calc–ratio (1987–2011–WATSON)



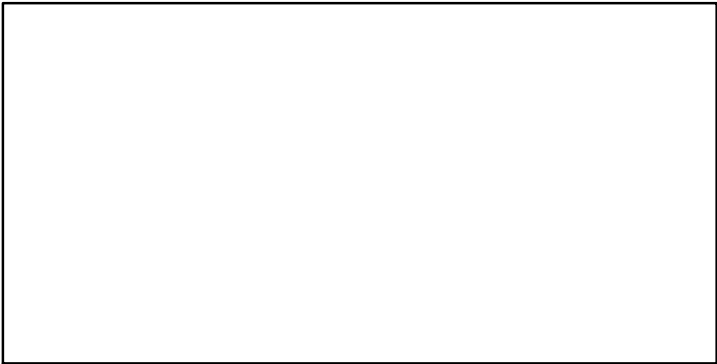
Recruits*



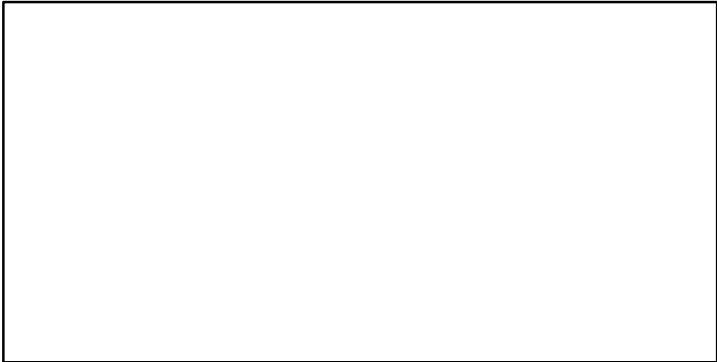
TC*, TL*, RecC*



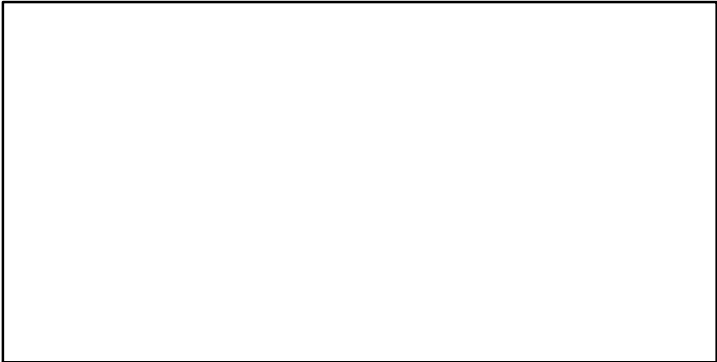
TAC*, Cpair*, Cadv*



survB*



CPUE*



EFFORT*



■

1st listed time series

●

2nd listed time series

▲

3rd listed time series

- - -

MSY

—

MORAT

*

No Data

Sidestripe shrimp SMA FR [SSSHRIMPSMAFR]

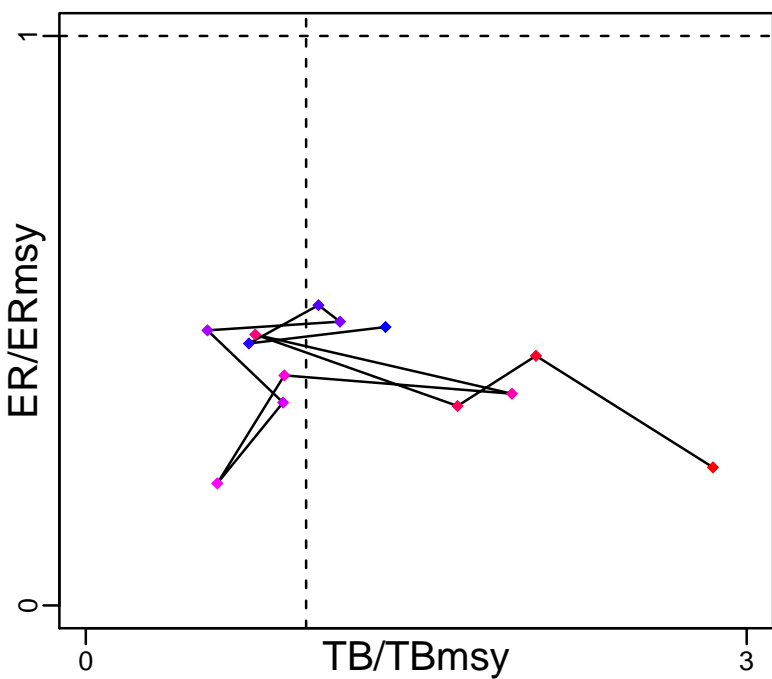
Metadata	
Scientific Name	Pandalopsis dispar
Current Assess ID	DFO-SSSHRIMPSMAFR-1987-2011-WATSON
Area	Shrimp Management Area FR
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans
Asmts in RAM	2011

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2011	174
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-est-ratio	2011	0.32
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2011	55
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

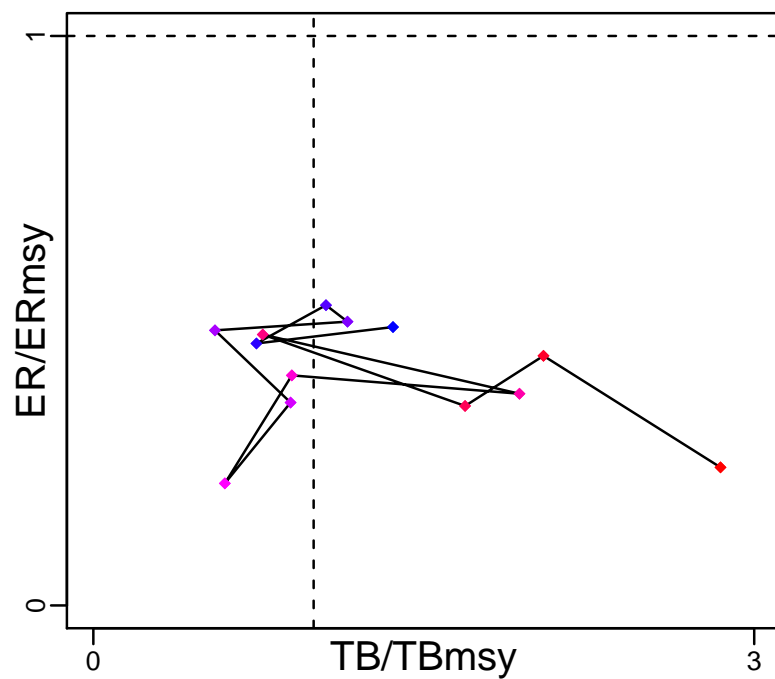
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2011	520	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2011	0	-	-
TC	-	-	-	-	-
TL	TL-MT	2011	38.3	-	-
TB/TBmsy	TB-MT/TBmsy-est-MT	2011	2.98	-	-
SSB/SSBmsy	-	-	-	-	-
F/Fmsy	-	-	-	-	-
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2011	0.24	-	-
TB/TBmgt	-	-	-	-	-
SSB/SSBmgt	-	-	-	-	-
F/Fmgt	-	-	-	-	-
ER/ERmgt	-	-	-	-	-

Sidestripe shrimp SMA FR [SSSHRIMPSMAFR]

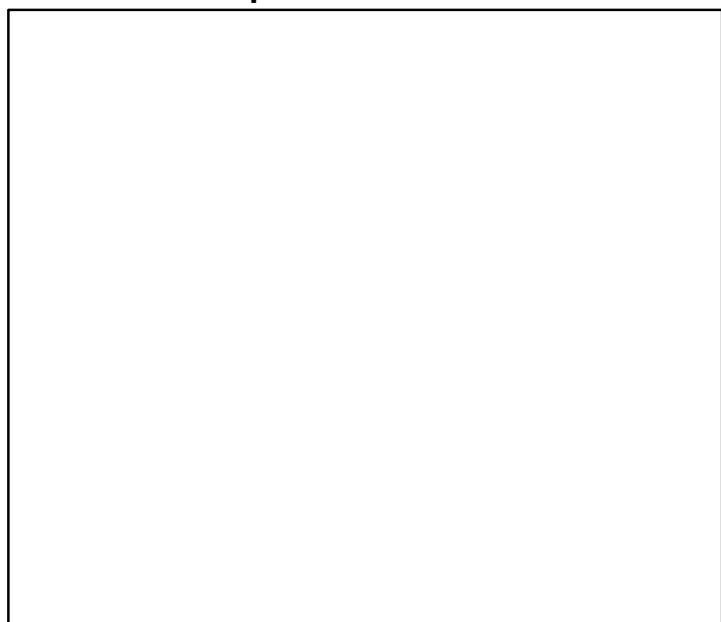
Kobe MSYpref (1987–2011–WATSON)



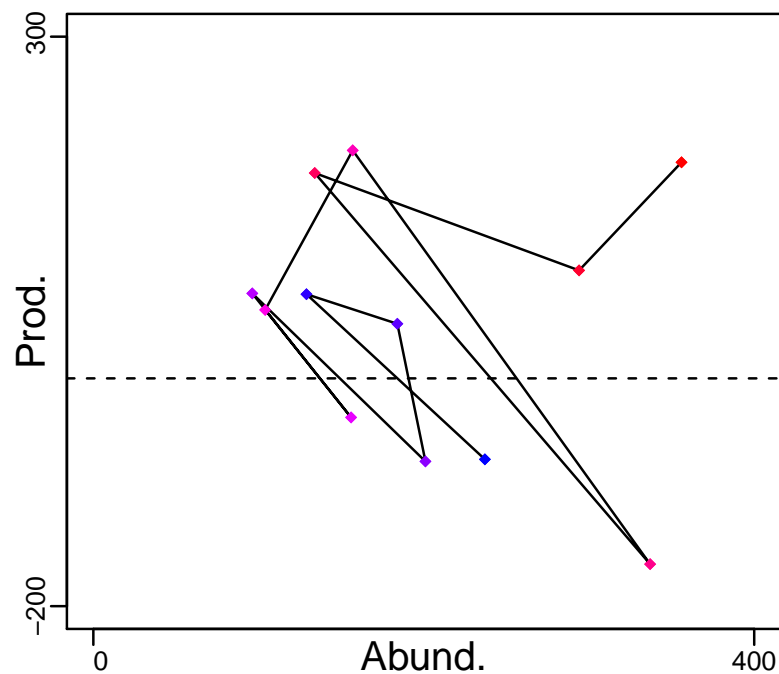
Kobe MGTpref (1987–2011–WATSON)



Spawner Recruit*



Production (1987–2011–WATSON)

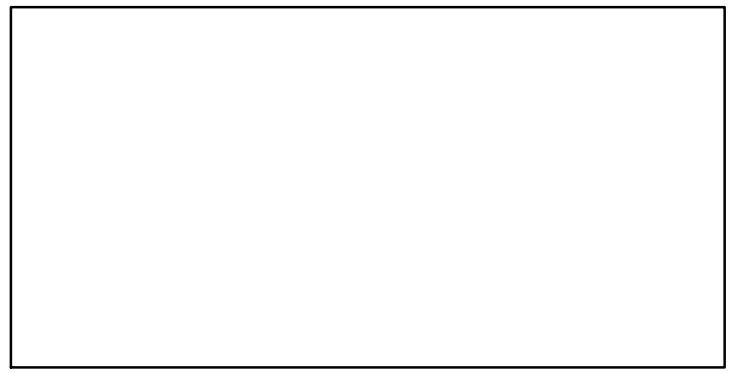
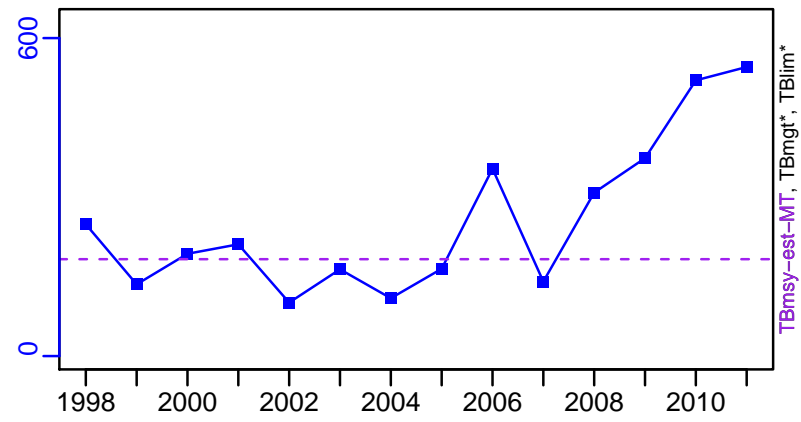


◆ Start Year ◆ End Year * No Data

Sidestripe shrimp SMA FR [SSSHRIMPSMAFR]

TB-MT (1987-2011-WATSON)

SSB*



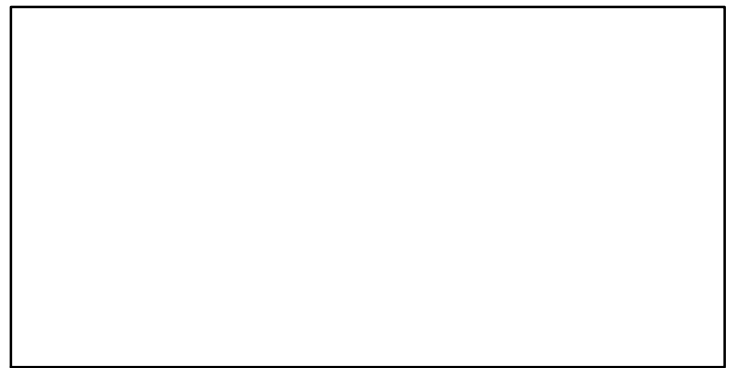
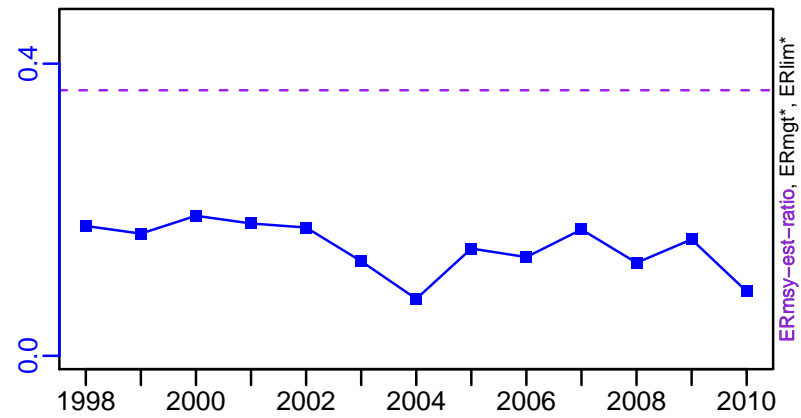
TN *

F*



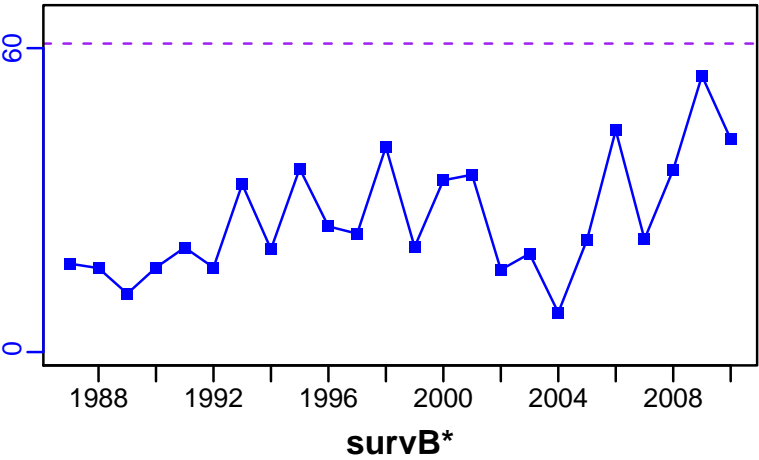
ER-calc-ratio (1987-2011-WATSON)

Recruits*

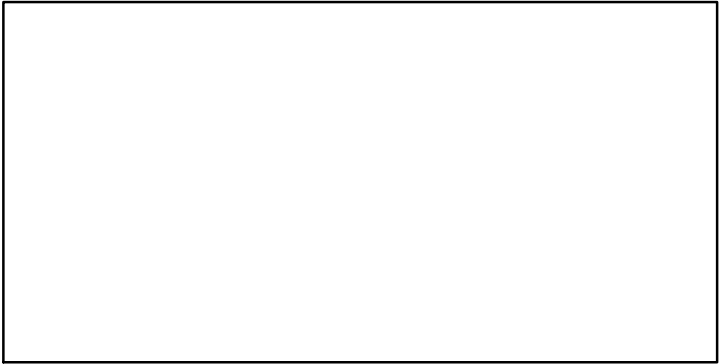
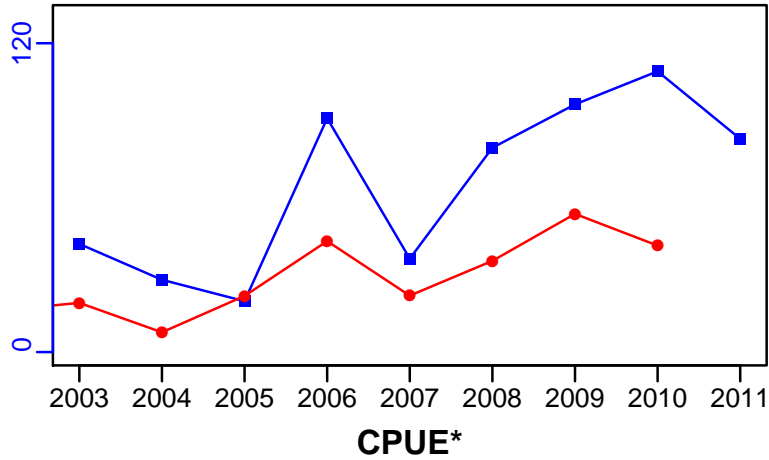


Sidestripe shrimp SMA FR [SSSHRIMPSMAFR]

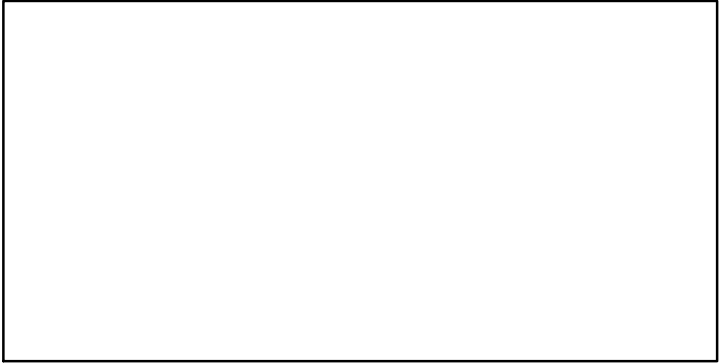
TL-MT, TC*, RecC* (1987-2011-WATSON)



TAC-MT, Cpair-MT, Cadv* (1987-2011-WATSON)



EFFORT*



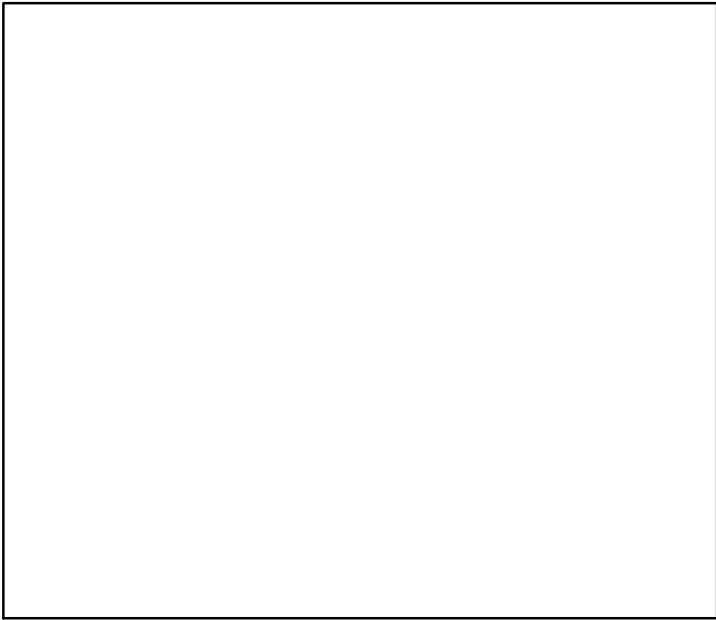
Yelloweye rockfish Pacific Coast of Canada (Inside) [YEYEROCKPCOASTIN]

Metadata	
Scientific Name	Sebastes ruberrimus
Current Assess ID	DFO-YEYEROCKPCOASTIN-1918-2009-WATSON
Area	Pacific Coast of Canada (Inside)
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans
Asmts in RAM	2009

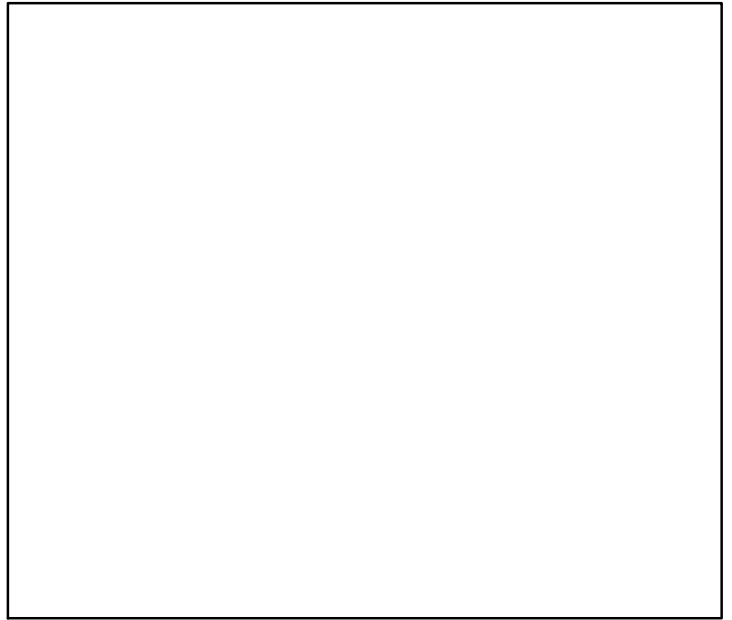
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2009	8.1		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

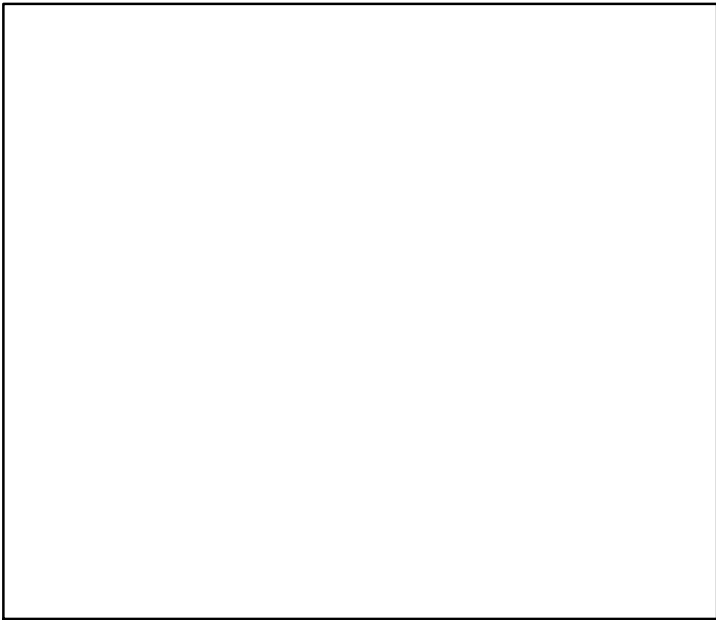
Kobe MSY*



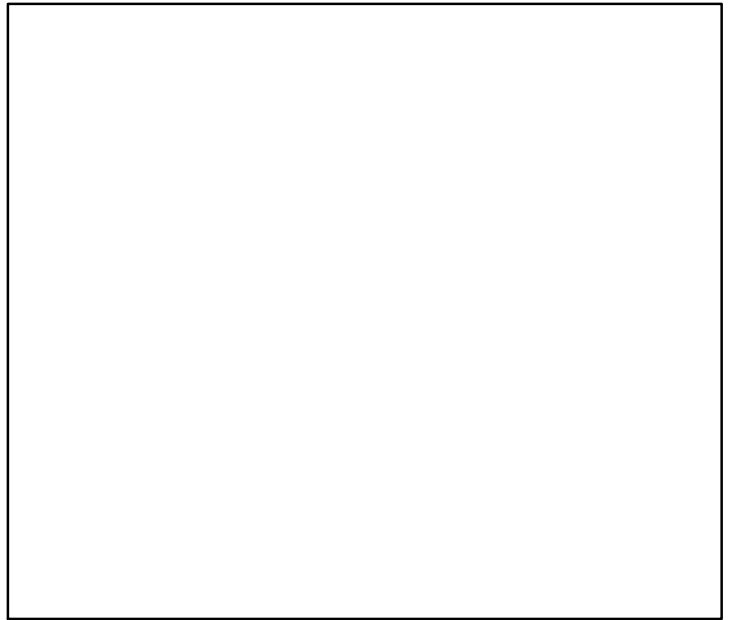
Kobe MGT*



Spawner Recruit*



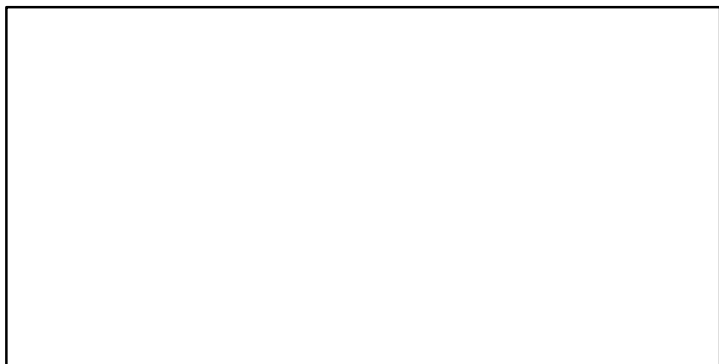
Production*



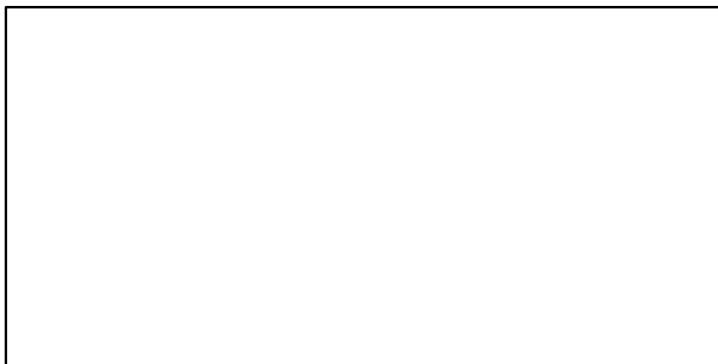
◆ Start Year ◆ End Year * No Data

Yelloweye rockfish Pacific Coast of Canada (Inside) [YEYEROCKPCOASTIN]

TB*



SSB*



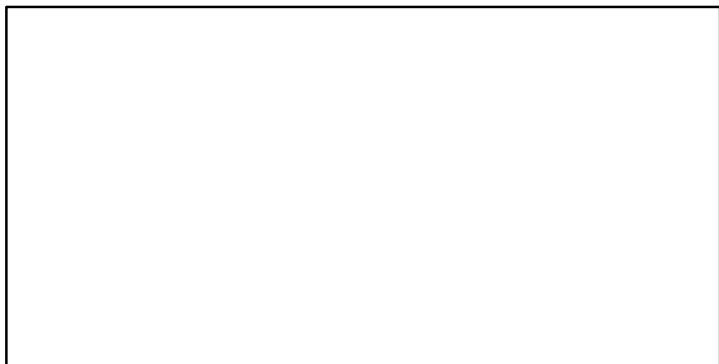
TN *



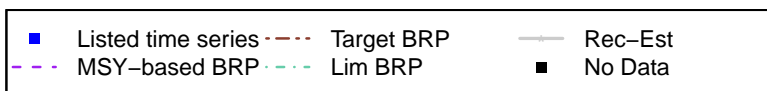
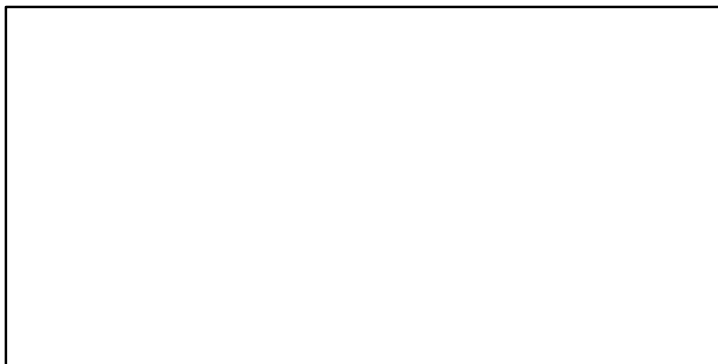
F*



ER*



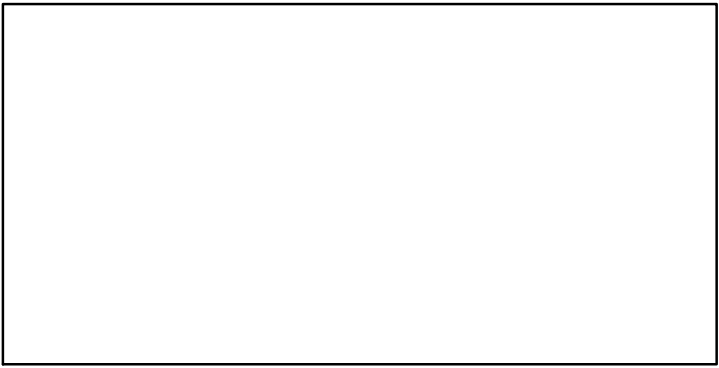
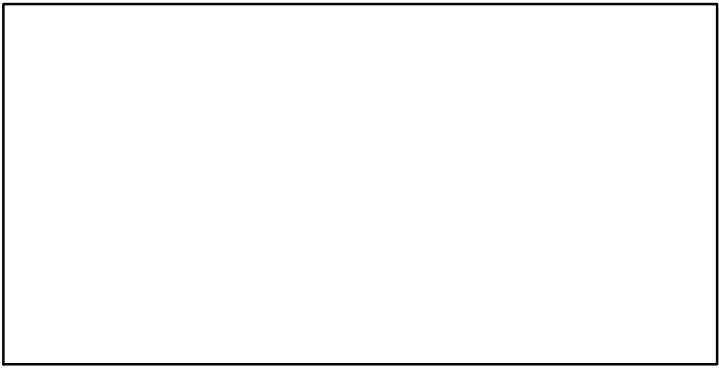
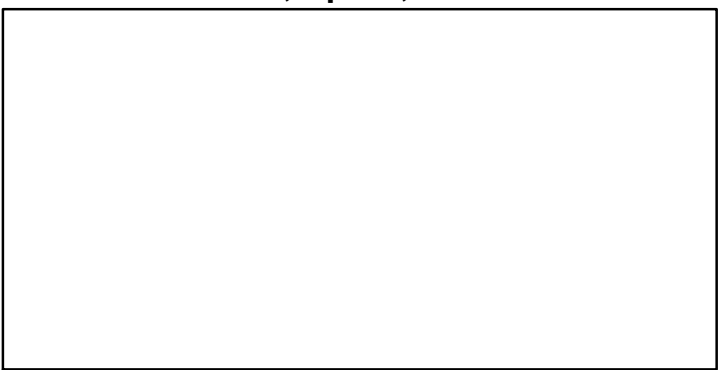
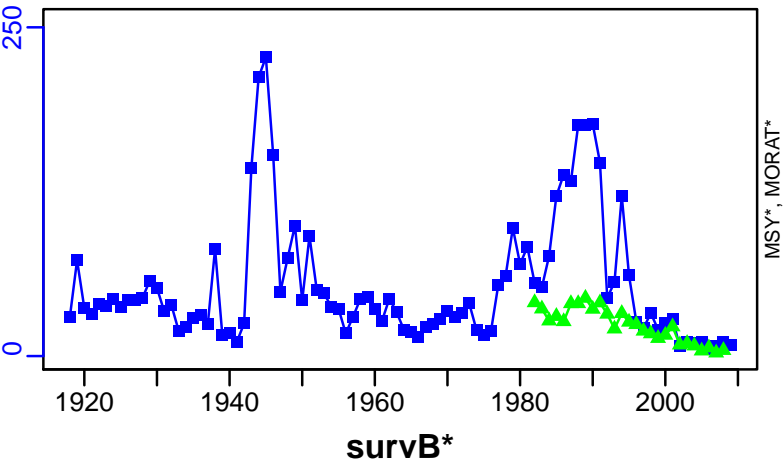
Recruits*



Yelloweye rockfish Pacific Coast of Canada (Inside) [YEYEROCKPCOASTIN]

TC-MT, TL*, RecC-MT (1918-2009-WATSON)

TAC*, Cpair*, Cadv*



EFFORT*

