## US Alaska Stocks

**v4.44 (Dec-21-2018)**

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## Alaska plaice Bering Sea and Aleutian Islands [ALPLAICBSAI]

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Alaska skate Bering Sea and Aleutian Islands [ALSKABSAI]


TN *


REC–EST*

Listed time series - Target BRP - MSY–based BRP - Lim BRP - Rec–Est - No Data
Alaska skate Bering Sea and Aleutian Islands [ALSKABSAI]

TC−MT, TL*, RecC* (1950−2015−SISIMP2016)

MSY*, MORA T*

No Data

Alaska skate Bering Sea and Aleutian Islands [ALSKABSAI]
## Arrowtooth flounder Bering Sea and Aleutian Islands [ARFLOUNDBSAI]

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Arrowtooth flounder Bering Sea and Aleutian Islands [ARFLOUNDBSAI]

**TB**−**MT** (1976−2015−SISIMP2016)

**SSB**−**MT** (1976−2015−SISIMP2016)

**TN** *

**F**−**1/yr** (1976−2015−SISIMP2016)

**ER**−**calc−ratio** (1976−2015−SISIMP2016)

**R**−**E00** (1976−2015−SISIMP2016)

- Listed time series
- Target BRP
- MSY−based BRP
- Lim BRP
- Rec−Est
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## Arrowtooth flounder, Gulf of Alaska [ARFLOUNDGA]

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Arrowtooth flounder Gulf of Alaska [ARFLOUNDGA]


Arrowtooth flounder Gulf of Alaska [ARFLOUNDGA]


TAC*, Cpair*, Cadv*

survB*

CPUE*

EFFORT*

CdivMSY−ratio (1958–2010–STACHURA)
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Atka mackerel Bering Sea and Aleutian Islands [ATKABSAI]

TB−MT (1977−2015−SISIMP2016)

SSB−MT (1977−2015−SISIMP2016)

TN *

F−1/yr (1977−2015−SISIMP2016)

ER−calc−ratio (1977−2015−SISIMP2016)

R−E00 (1977−2015−SISIMP2016)

REC−EST*

Listed time series - Target BRP
MSY−based BRP - Lim BRP
Rec−Est
No Data
Atka mackerel Bering Sea and Aleutian Islands [ATKABSAI]

TC−MT, TL*, RecC* (1977−2015−SISIMP2016)


survB*

0 120,000

1st listed time series
2nd listed time series
3rd listed time series

MSY*, MORA T*

No Data

TAC*, Cpair*, Cadv*

CPUE*

EFFORT*

CdivMSY*

1st listed time series
3rd listed time series
2nd listed time series
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TC−MT, TL*, RecC* (1977−2014−SISIMP2016)


0 25,000

MSY*, MORA T*

survB*, CPUE*, EFFORT*, CdivMSY*

1st listed time series 3rd listed time series 2nd listed time series

MORAT

MSY

No Data

Atka mackerel Gulf of Alaska [ATKAGA]
Blue king crab Pribilof Islands [BKINGCRABPI]

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Blue king crab Pribilof Islands [BKINGCRABPI]


- TBmsy*
- TBmgt*
- TBlim*

**SSB−MT (1960–2008–JENSEN)**

- SSBmsy−MT
- SSBmgt*
- SSBlim*

**ER−ratio (1960–2008–JENSEN)**

- ERmsy*
- ERmgt*
- ERlim*

**Recruits**

- Listed time series
- Target BRP
- MSY–based BRP
- Lim BRP
- No Data

No Data
Blue king crab Pribilof Islands [BKINGCRABPI]

TC−MT , TL* , RecC* (1960–2008–JENSEN)

TAC* , Cpair* , Cadv*

survB*

CPUE*

EFFORT*

CdivMSY*

1st listed time series

2nd listed time series

3rd listed time series

0 6,000


MSY* , MORA T*

No Data
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Blue king crab Saint Matthews Island [BKINGCRABSMI]

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SSB−MT (1960–2008–JENSEN)


SSBmsy−MT, SSBmgt*, SSBlim*

0 10,000

TN *

F*

ER*

Recruits*

Listed time series - Target BRP - MSY–based BRP - Lim BRP - No Data

33
Blue king crab Saint Matthews Island [BKINGCRABSMI]

TC−MT, TL*, RecC* (1960–2008–JENSEN)

TAC*, Cpair*, Cadv*

survB*

CPUE*

EFFORT*

CdivMSY*

1st listed time series
2nd listed time series
3rd listed time series

No Data


0 5,000

34
Dover sole Gulf of Alaska [DSOLEGA]

**Metadata**
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- **Area**: Gulf of Alaska
- **Management Authority**: National Marine Fisheries Service, US national management
- **Assessor**: Alaska Fisheries Science Center
- **Asmts in RAM**: 2009, 2015

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## Dusky rockfish Gulf of Alaska [DUSROCKGA]

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Dusky rockfish Gulf of Alaska [DUSROCKGA]

Kobe MSYpref (1973–2010–STACHURA)

Kobe MGTpref (1973–2010–STACHURA)


- Start Year
- End Year
- No Data
Dusky rockfish Gulf of Alaska [DUSROCKGA]


- **TBmsy**, **TBmgt**, **TBlim**


- **SSBmsy–MT**, **SSBmgt**, **SSBlim**


- **Fmsy**, **Fmgt**, **Flim**


- Listed time series
- Target BRP
- MSY–based BRP
- Lim BRP
- Rec–Est
- No Data

*Listed time series
MSY–based BRP
Target BRP
Lim BRP
Rec–Est
No Data

Number of pages: 41
Dusky rockfish Gulf of Alaska [DUSROCKGA]

TC−MT, TL*, RecC* (1977−2015−SISIMP2016)

TAC*, Cpair*, Cadv*

survB*

CPUE*

EFFORT*

CdivMSY*

1st listed time series
2nd listed time series
3rd listed time series
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MORA T
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Flathead sole Bering Sea and Aleutian Islands [FLSOLEBSAI]

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Flathead sole Bering Sea and Aleutian Islands [FLSOLEBSAI]


SSB−MT (1977−2015–SISIMP2016)

F−1/yr (1977−2015–SISIMP2016)

ER−calc−ratio (1977−2015–SISIMP2016)

R−E00 (1977−2015–SISIMP2016)

REC−EST*

Listed time series
MSY−based BRP
Target BRP
Lim BRP
Rec−Est
No Data
Flathead sole Bering Sea and Aleutian Islands [FLSOLEBSAI]

TC−MT, TL*, RecC* (1977−2015−SISIMP2016)

TAC*, Cpair*, Cadv*

survB*

CPUE*

EFFORT*

CdivMSY−ratio (1974−2010−STACHURA)

1st listed time series

3rd listed time series

2nd listed time series

- No Data
### Flathead sole Gulf of Alaska [FLSOLEGA]

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Flathead sole Gulf of Alaska [FLSOLEGA]

Kobe MSYpref (1978–2010–STACHURA)

Kobe MGTPref (1978–2010–STACHURA)


Flathead sole Gulf of Alaska [FLSOLEGA]

Start Year
End Year
No Data
Flathead sole Gulf of Alaska [FLSOLEGA]


- **TBmsy**
- **TBmgt**
- **TBlim**


- **SSBmsy−MT**
- **SSBmgt**
- **SSBlim**


- **Fmsy**
- **Fmgt**
- **Flim**


- **ERmsy**
- **ERmgt**
- **ERlim**


- **REC−EST**

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Listed time series
MSY-based BRP
Target BRP
Lim BRP
Rec–Est
No Data
Flathead sole Gulf of Alaska [FLSOLEGA]


TAC*, Cpair*, Cadv*

survB*

CPUE*

EFFORT*

CdivMSY*

1st listed time series  3rd listed time series   MORAT
2nd listed time series  MSY   No Data
Greenland turbot Bering Sea and Aleutian Islands [GHALBSAI]

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Greenland turbot Bering Sea and Aleutian Islands [GHALBSAI]

TB−MT (1960−2015−HIVELY)

SSB−MT (1960−2015−HIVELY)

TN *

F−1/yr (1960−2015−HIVELY)

ER−ratio (1960−2015−HIVELY)

R−E00 (1960−2015−HIVELY)

**Listed time series**

**MSY−based BRP**

**Target BRP**

**Lim BRP**

**Rec−Est**

**No Data**

53
Greenland turbot Bering Sea and Aleutian Islands [GHALBSAI]

TL−MT, TC*, RecC* (1960−2015−HIVELY)

TAC*, Cpair*, Cadv*

survB*

MSY* , MORA T*

CPUE*

EFFORT*

CdivMSY*

Legend:
- 1st listed time series
- 2nd listed time series
- 3rd listed time series
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# Giant Pacific octopus Bering Sea and Aleutian Islands [GPOCTOBSAI]

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57
Giant Pacific octopus Bering Sea and Aleutian Islands [GPOCTOBSAI]


TAC*, Cpair*, Cadv*

survB*

EFFORT*

CPUE*

CdivMSY*

0 700


1st listed time series  3rd listed time series  MORAT
2nd listed time series  MSY  No Data

58
### Giant Pacific octopus Gulf of Alaska [GPOCTOGA]

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Giant Pacific octopus Gulf of Alaska [GPOCTOGA]

TB−MT (1997−2014−SISIMP2016)

SSB*

F*

Recruits*

Listed time series
MSY−based BRP
Target BRP
Lim BRP
Rec−Est
No Data
Pacific herring Prince William Sound [HERRPWS]

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Pacific herring Prince William Sound [HERRPWS]

TB−MT (1980–2006−COLLIE)

SSB−MT (1980–2006−COLLIE)

F−1/yr (1980–2006−COLLIE)

ER*

Listed time series : Target BRP : MSY−based BRP : Lim BRP : Rec−Est : No Data

65
Pacific herring Sitka [HERRSITKA]

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Pacific herring Sitka [HERRSITKA]

Kobe MSY*

Kobe MGT*

Spawner Recruit (1978−2007−COLLIE)

Production*

Spawner Recruit (1978−2007−COLLIE)

Start Year

End Year

No Data

Start Year

End Year

No Data

0 1,000,000,000

100,000

0

0

R−E00

SSB−MT

68
Pacific herring Sitka [HERRSITKA]


SSB-MT (1978–2007–COLLIE)

TN *

F−1/yr (1978–2007–COLLIE)

ER*

R−E00 (1978–2007–COLLIE)

Listed time series
MSY-based BRP
Target BRP
Lim BRP
Rec–Est
No Data
Pacific herring Sitka [HERRSITKA]

TC-E00, TL*, RecC* (1978–2007–COLLIE)


MSY*, MORA T*

0 150,000,000

survB*

CPUE*

EFFORT*

CdivMSY*

1st listed time series
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TAC*, Cpair*, Cadv*

No Data

Pacific herring Sitka [HERRSITKA]
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Herring Togiak District [HERRTOG]

TC−MT, TL*, RecC* (1990–2010–HIVELY)


MSY*, MORA T*

0 35,000

TAC*, Cpair*, Cadv*

survB*

CPUE*

EFFORT*

CdivMSY*

Legend:
- 1st listed time series
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# Kamchatka flounder Bering Sea and Aleutian Islands [KMFLOUNBSAI]

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Kamchatka flounder Bering Sea and Aleutian Islands [KMFLOUNBSAI]


1st listed time series

2nd listed time series

3rd listed time series

MSY*, MORA T*

No Data

Kamchatka flounder Bering Sea and Aleutian Islands [KMFLOUNBSAI]
## Northern rockfish Bering Sea and Aleutian Islands [NROCKBSAI]

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Northern rockfish Bering Sea and Aleutian Islands [NROCKBSAI]


SSB−MT (1977–2015−SISIMP2016)

F−1/yr (1977–2015−SISIMP2016)

ER−calc−ratio (1977–2015−SISIMP2016)

R−E00 (1977–2015−SISIMP2016)

Listed time series
MSY−based BRP
Target BRP
Lim BRP
Rec−Est
No Data

[Diagram showing time series plots for TB−MT, SSB−MT, F−1/yr, ER−calc−ratio, and R−E00 with associated BRP targets and estimates]
Northern rockfish Bering Sea and Aleutian Islands [NROCKBSAI]

TC−MT, TL*, RecC* (1977−2015−SISIMP2016)

TAC*, Cpair*, Cadv*

survB*

CPUE*

EFFORT*

CdivMSY*

1st listed time series
2nd listed time series
3rd listed time series


MSY*, MORA T*

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## Northern rockfish Gulf of Alaska [NROCKGA]

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Northern rockfish Gulf of Alaska [NROCKGA]

TC−MT, TL*, RecC* (1961−2015−SISIMP2016)

TAC*, Cpair*, Cadv*

survB*

CPUE*

EFFORT*

CdivMSY−ratio (1959−2010−STACHURA)
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Northern rock sole Eastern Bering Sea and Aleutian Islands [NRSOLEEBSAI]

Kobe MSYpref (1975–2012–HIVELY)

Kobe MGTpref (1975–2012–HIVELY)


Start Year  End Year  No Data
Northern rock sole Eastern Bering Sea and Aleutian Islands [NRSOLEEBSAI]

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SSB−MT (1975–2015−SISIMP2016)

TN *

F−1/yr (1975–2015−SISIMP2016)

ER−calc−ratio (1975–2015−SISIMP2016)

R−E00 (1975–2015−SISIMP2016)

Rec−Est∗

Listed time series

MSY−based BRP

Target BRP

Lim BRP

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Northern rock sole Gulf of Alaska [NRSOLEGA]

Kobe MSY*

Kobe MGT*


Start Year   End Year   No Data
Northern rock sole Gulf of Alaska [NRSOLEGA]


MSY*, MORA T*

0 5,000

survB*

0 5,000

CPUE*

EFFORT*

CdivMSY*

1st listed time series
2nd listed time series
3rd listed time series

1st listed time series
2nd listed time series
3rd listed time series

No Data


MSY*, MORA T*

0 5,000

survB*

0 5,000

CPUE*

EFFORT*

CdivMSY*

1st listed time series
2nd listed time series
3rd listed time series

1st listed time series
2nd listed time series
3rd listed time series

No Data


MSY*, MORA T*

0 5,000

survB*

0 5,000

CPUE*

EFFORT*

CdivMSY*

1st listed time series
2nd listed time series
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1st listed time series
2nd listed time series
3rd listed time series

No Data
Pacific cod Aleutian Islands [PCODAI]

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Pacific cod Aleutian Islands [PCODAI]


SSB*

F*

Recruits*

Listed time series
MSY−based BRP
Target BRP
Lim BRP
Rec−Est
No Data

97
Pacific cod Aleutian Islands [PCODAI]


TAC*, Cpair*, Cadv*

survB*

CPUE*

EFFORT*

CdivMSY*

1st listed time series  3rd listed time series  MORAT
2nd listed time series  MSY  No Data
# Pacific cod Bering Sea [PCODBS]

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Pacific cod Bering Sea [PCODBS]


TN *


REC–EST*

Listed time series
MSY–based BRP
Target BRP
Lim BRP
Rec–Est
No Data
Pacific cod Bering Sea [PCODBS]

TC−MT, TL*, RecC* (1977−2015−SISIMP2016)

1st listed time series

TAC*, Cpair*, Cadv*

2nd listed time series

MSY*, MORA T*

3rd listed time series

No Data

Pacific cod Bering Sea [PCODBS]

survB*

CPUE*

EFFORT*

CdivMSY*

Legend:
- 1st listed time series
- 2nd listed time series
- 3rd listed time series
- MORAT
- MSY
- No Data

102
## Pacific cod Gulf of Alaska [PCODGA]

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Pacific cod Gulf of Alaska [PCODGA]


REC–EST*

Listed time series
Target BRP
MSY–based BRP
Lim BRP
Rec–Est
No Data
Pacific cod Gulf of Alaska [PCODGA]

TC−MT, TL*, RecC* (1977−2015−SISIMP2016)

TAC*, Cpair*, Cadv*

survB*

CPUE*

EFFORT*

CdivMSY*

1st listed time series
2nd listed time series
3rd listed time series
MSY*
MORA T*
No Data

Pacific cod Gulf of Alaska [PCODGA]
## Pacific Ocean perch Eastern Bering Sea and Aleutian Islands [PERCHEBSAI]

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Pacific Ocean perch Eastern Bering Sea and Aleutian Islands [PERCHEBSAI]

Kobe MSYpref (1960–2011–STACHURA)

Kobe MGTpref (1960–2011–STACHURA)


Production (1960–2015–SISIMP2016)
Pacific halibut North Pacific [PHALNPAC]

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Pacific halibut North Pacific [PHALNPAC]

Kobe MSYpref (1888–2014–HIVELY)

Kobe MGTpref (1888–2014–HIVELY)

Spawner Recruit*

Production (1888–2014–HIVELY)

*Start Year  End Year  No Data
Pacific halibut North Pacific [PHALNPAC]

TC−MT, TL*, RecC* (1888–2014–HIVELY)

TAC*, Cpair*, Cadv*

survB*

CPUE*

EFFORT*

CdivMSY*

1st listed time series  3rd listed time series  MORAT
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Pacific ocean perch Gulf of Alaska [POPERCHGA]

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- Rec–Est
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Kobe MSY*

Spawner Recruit (1979–2011–HIVELY)

Spawner Recruit

0 50,000

0 120,000,000

R–E00

SSB–MT

Kobe MGT*


Prod.

Abund.

Rex sole Gulf of Alaska [REXSOLEGA]

*Start Year

End Year

No Data
Rex sole Gulf of Alaska [REXSOLEGA]


SSB–MT (1979–2011–HIVELY)

TN * F−1/yr (1979–2011–HIVELY)


R–E00 (1979–2011–HIVELY)

REC–EST*

Listed time series - Target BRP
MSY–based BRP - Lim BRP
Rec–Est - No Data
Rex sole Gulf of Alaska [REXSOLEGA]


MSY∗, MORAT∗

survB∗

CPUE∗

EFFORT∗

CdivMSY∗

1st listed time series
2nd listed time series
3rd listed time series
0 7,000

No Data

TAC∗, Cpair∗, Cadv∗
Rougheye rockfish Bering Sea and Aleutian Islands [REYEROCKBSAI]

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|-----------------|----------------|
| **Scientific Name** | Sebastes aleutianus |
| **Current Assess ID** | AFSC-REYEROCKBSAI-1974-2015-HIVELY |
| **Area** | Bering Sea and Aleutian Islands |
| **Management Authority** | National Marine Fisheries Service, US national management |
| **Assessor** | Alaska Fisheries Science Center |
| **Asmts in RAM** | 2015 |

| Reference Points |
|------------------|----------------|----------------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | SSBmsy-pr-MT | 2015 | 9977 |
| Fmsy | Fmsy-pr-1/yr | 2015 | 0.058 |
| ERmsy | - | - | - |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | - | - | - |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | - | - | - |
| M | M-1/yr | 2015 | 0.03 |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

| Time Series |
|-------------|----------------|----------------|-------------|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | TB-MT | 2015 | 40,400 | Both | 3+ |
| SSB | SSB-MT | 2015 | 6980 | Females | 3+ |
| TN | - | - | - | - | - |
| R | R-E00 | 2015 | 1,560,000 | - | 3 |
| F | F-1/yr | 2015 | 0.017 | - | - |
| ER | ER-calc-ratio | 2015 | 0.005 | - | - |
| TC | TC-MT | 2015 | 194 | - | - |
| TL | - | - | - | - | - |
| TB/TBmsy | - | - | - | - | - |
| SSB/SSBmsy | SSB-MT/SSBmsy-pr-MT | 2015 | 0.699 | - | - |
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| SSB/SSBmgt | - | - | - | - | - |
| F/Fmgt | - | - | - | - | - |
| ER/ERmgt | - | - | - | - | - |
Rougheye rockfish Bering Sea and Aleutian Islands [REYEROCKBSAI]

TB−MT (1974−2015−HIVELY)

SSB−MT (1974−2015−HIVELY)

F−1/yr (1974−2015−HIVELY)

ER−calc−ratio (1974−2015−HIVELY)

R−E00 (1974−2015−HIVELY)

REC−EST*

Listed time series: Target BRP
MSY−based BRP
Lim BRP
Rec−Est
No Data
Rougheye rockfish Bering Sea and Aleutian Islands [REYEROOCKBSAI]


TAC*, Cpair*, Cadv*

survB*

CPUE*

EFFORT*

CdivMSY*

1st listed time series  ▲  3rd listed time series  ——  MORAT  ♦  2nd listed time series  —  MSY  •  No Data
Rougheye rockfish Gulf of Alaska [REYEROCKGA]

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Rougheye rockfish Gulf of Alaska [REYEROCKGA]


TN *


R−E00 (1974–2010–ST ACHURA)

REC−EST*

Listed time series
MSY−based BRP
Target BRP
Lim BRP
Rec−Est
No Data

129
Rougheye rockfish Gulf of Alaska [REYEROCKGA]


1st listed time series
2nd listed time series
3rd listed time series

MSY*, MORA T*

TAC*, Cpair*, Cadv*

survB*

CPUE*

EFFORT*

CdivMSY*

1st listed time series  ▲ 3rd listed time series  —  MORAT
2nd listed time series  —  MSY  •  No Data
Red king crab Bristol Bay [RKCRABBB]

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Red king crab Bristol Bay [RKCRABBB]

Kobe MSYpref (1960–2008–JENSEN)

Kobe MGTpref (1960–2008–JENSEN)


- Start Year
- End Year
- No Data
Red king crab Bristol Bay [RKCRABBB]

TB−MT (1975−2015−SISIMP2016)

SSB−MT (1975−2015−SISIMP2016)

TN *

F−1/yr (1975−2015−SISIMP2016)

ER−calc−ratio (1975−2015−SISIMP2016)

R−E00 (1975−2015−SISIMP2016)

REC−EST*

Listed time series: Target BRP, MSY–based BRP, Lim BRP, Rec–Est, No Data
Red king crab Bristol Bay [RKCRABBB]

1st listed time series

2nd listed time series

3rd listed time series


0 70,000


0 5
# Red king crab Norton Sound [RKCRABNS]

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TC*, TL*, RecC*  TAC*, Cpair*, Cadv*

survB*  CPUE*

EFFORT*  CdivMSY*

1st listed time series  3rd listed time series  MORAT
2nd listed time series  MSY  No Data
Red king crab Pribilof Islands [RKCRABPI]

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# Rock sole Gulf of Alaska [RSOLEGA]

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Rock sole Gulf of Alaska [RSOLEGA]

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- **TBmsy*, TBmgt*, TBlim**
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- **Fmsy*, Fmgt*, Flim**
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*Listed time series
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Sablefish Eastern Bering Sea / Aleutian Islands / Gulf of Alaska [SABLEFEBSAIGA]

Kobe MSYpref (1958–2010–STACHURA)

Kobe MGTpref (1958–2010–STACHURA)


Production (1960–2015–SISIMP2016)

Start Year  End Year  No Data
Sablefish Eastern Bering Sea / Aleutian Islands / Gulf of Alaska [SABLEFEBSAIGA]


MSY*, MORA T*

0 60,000

TAC*, Cpair*, Cadv*

1st listed time series
2nd listed time series
3rd listed time series

EFFORT*

CPUE*

CdivMSY−ratio (1958–2010–STACHURA)

0.0 3.5


150
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Snow crab Bering Sea [SNOWCRABBS]

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SSB−MT (1979−2015−SISIMP2016)

TN *

F−1/yr (1979−2015−SISIMP2016)

ER−calc−ratio (1979−2015−SISIMP2016)

R−E00 (1979−2015−SISIMP2016)

REC−EST*

Listed time series - Target BRP
MSY−based BRP - Lim BRP
Rec–Est
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153
**Shortraker rockfish Bering Sea and Aleutian Islands [SRAKEROCKBSAI]**

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Shortraker rockfish Bering Sea and Aleutian Islands [SRAKEROCKBSAI]

Kobe MSY*  

Kobe MGT*  

Spawner Recruit*  

Shortraker rockfish Bering Sea and Aleutian Islands [SRAKEROCKBSAI]


TAC*, Cpair*, Cadv*

survB*

CPUE*

EFFORT*

CdivMSY*

1st listed time series
2nd listed time series
3rd listed time series
MORAT
MSY
No Data
Shortraker rockfish Gulf of Alaska [SRAKEROCKGA]

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Shortraker rockfish Gulf of Alaska [SRAKEROCKGA]

Kobe MSY*

Kobe MGT*

Spawner Recruit*

Production (1993−2014−SISIMP2016)

Start Year  End Year  No Data

Prod.  Abund.

0  60,000
−1,000  6,000
Shortraker rockfish Gulf of Alaska [SRAKEROCKGA]


1st listed time series

2nd listed time series

3rd listed time series


survB*

CPUE*

EFFORT*

CdivMSY*

TAC*, Cpair*, Cadv*

1st listed time series

3rd listed time series

2nd listed time series

MORAT

MSY

No Data

Shortraker rockfish Gulf of Alaska [SRAKEROCKGA]


1st listed time series

2nd listed time series

3rd listed time series


survB*

CPUE*

EFFORT*

CdivMSY*

TAC*, Cpair*, Cadv*

1st listed time series

3rd listed time series

2nd listed time series

MORAT

MSY

No Data

Shortraker rockfish Gulf of Alaska [SRAKEROCKGA]


1st listed time series

2nd listed time series

3rd listed time series


survB*

CPUE*

EFFORT*

CdivMSY*

TAC*, Cpair*, Cadv*

1st listed time series

3rd listed time series

2nd listed time series

MORAT

MSY

No Data

Shortraker rockfish Gulf of Alaska [SRAKEROCKGA]


1st listed time series

2nd listed time series

3rd listed time series


survB*

CPUE*

EFFORT*

CdivMSY*

TAC*, Cpair*, Cadv*

1st listed time series

3rd listed time series

2nd listed time series

MORAT

MSY

No Data

Shortraker rockfish Gulf of Alaska [SRAKEROCKGA]


1st listed time series

2nd listed time series

3rd listed time series


survB*

CPUE*

EFFORT*

CdivMSY*

TAC*, Cpair*, Cadv*

1st listed time series

3rd listed time series

2nd listed time series

MORAT

MSY

No Data

Shortraker rockfish Gulf of Alaska [SRAKEROCKGA]


1st listed time series

2nd listed time series

3rd listed time series


survB*

CPUE*

EFFORT*

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TAC*, Cpair*, Cadv*

1st listed time series

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Shortspine thornyhead Gulf of Alaska [SSTHORNHGA]

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Shortspine thornyhead Gulf of Alaska [SSTHORNHGA]


MSY*, MORA T*

TAC*, Cpair*, Cadv*

survB*

CPUE*

EFFORT*

CdivMSY*

1st listed time series
2nd listed time series
3rd listed time series

166
Tanner crab Bering Sea and Aleutian Islands [TANNERCRABBSAI]

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Tanner crab Bering Sea and Aleutian Islands [TANNERCRABBSAI]

Kobe MSYpref (1949–2013–HIVELY)

0 12
0.0 ...

F/Fmsy
F/Fmgt

SSB/SSBmsy
SSB/SSBmgt

0 12
0.0 ...


0 350,000
0 2,000,000,000

R−E00
Prod.

0 350,000
0 1,000,000

0 1,000,000

Start Year
End Year
No Data

168
Tanner crab Bering Sea and Aleutian Islands [TANNERCRABBSAI]


ER−calc−ratio (1965–2015–SISIMP2016)

R−E00 (1965–2015–SISIMP2016)

REC−EST*

Listed time series
MSY-based BRP
Target BRP
Lim BRP
Rec-Est
No Data
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- **Area**: Aleutian Islands
- **Management Authority**: National Marine Fisheries Service, US national management
- **Assessor**: Alaska Fisheries Science Center
- **Asmts in RAM**: 2013, 2015

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Walleye pollock Aleutian Islands [WPOLLAI]

Kobe MSYpref (1976−2013−CHING)

F/Fmsy vs. SSB/SSBmsy

Kobe MGTpref (1976−2013−CHING)

F/Fmsy vs. SSB/SSBmsy

Spawner Recruit (1978−2015−SISIMP2016)

R−E00 vs. SSB−MT

Production (1978−2015−SISIMP2016)

Prod. vs. Abund.

• Start Year  • End Year  • No Data
Walleye pollock Aleutian Islands [WPOLLAI]


R−E00 (1978–2015–SISIMP2016)

REC−EST*

Listed time series
MSY−based BRP
Target BRP
Lim BRP
Rec−Est
No Data
Walleye pollock Aleutian Islands [WPOLLAI]


TAC*, Cpair*, Cadv*

survB*

CPUE*

EFFORT*

CdivMSY*

1st listed time series
2nd listed time series
3rd listed time series

174
**Walleye pollock Bogoslof [WPOLLBOGO]**

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Walleye pollock Bogoslof [WPOLLBOGO]

Kobe MSY*

Kobe MGT*

Spawner Recruit*


Start Year  End Year  No Data

Prod.  Abund.

0  1,400,000

−400,000  600,000

176
Walleye pollock Bogoslof [WPOLLBOGO]


- **TBmsy***
- **TBmgt***
- **TBlim***

- **SSB***
- **F***


- **Recruits***

- **Listed time series**
- **MSY–based BRP**
- **Lim BRP**
- **Rec–Est**
- **No Data**

[Diagram showing time series data for Walleye pollock Bogoslof [WPOLLBOGO]]

177
Walleye pollock Bogoslof [WPOLLBOGO]

|------------------------------------------|--------------------|

survB* | CPUE* |

EFFORT* | CdivMSY* |

1st listed time series | 3rd listed time series | 2nd listed time series | MORAT | MSY | No Data
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Walleye pollock Eastern Bering Sea [WPOLLEBS]

Kobe MSYpref (1963–2015–HIVELY)

Kobe MGTpref (1963–2015–HIVELY)

Spawner Recruit (1963–2015–HIVELY)

Production (1963–2015–HIVELY)

SSB/SSBmsy
F/Fmsy
Kobe MSYpref  (1963−2015−HIVELY)
Kobe MGTpref  (1963−2015−HIVELY)

--

R−E00

Prod.

SSB−MT

Abund.

Start Year  End Year  No Data

180
Walleye pollock Eastern Bering Sea [WPOLLEBS]

- **TB-MT** (1963–2015–HIVELY)
- **SSB-MT** (1963–2015–HIVELY)
- **TN** *
- **F−1/yr** (1963–2015–HIVELY)
- **ER-calc-ratio** (1963–2015–HIVELY)
- **R-E00** (1963–2015–HIVELY)

**Listed time series**
- MSY-based BRP
- Target BRP
- Lim BRP
- Rec-Est

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- **Listed time series**
- **Target BRP**
- **MSY-based BRP**
- **Lim BRP**
- **Rec-Est**
- **No Data**

181
Walleye pollock Gulf of Alaska [WPOLLGA]

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Walleye pollock Gulf of Alaska [WPOLLGA]

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- 2010: 1970: 0, 3,500,000

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- 1970: 0, 0
- 1980: 1970: 0, 0
- 1990: 1970: 0, 0
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MSY−based BRP
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Lim BRP
Rec−Est
No Data
Walleye pollock Gulf of Alaska [WPOLLGA]

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Legend:
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- 2nd listed time series
- 3rd listed time series
- No Data

186
Weathervane scallop Alaska [WVSCALLALASKA]

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Legend:
- Listed time series
- Target BRP
- MSY-based BRP
- Lim BRP
- Rec-Est
- No Data
Weathervane scallop Alaska [WVSCALLALASKA]

TC−MT, TL*, RecC* (1994−2015−SISIMP2016)

MSY−MT, MORA T*

TAC*, Cpair*, Cadv*

survB*

CPUE*

EFFORT*

CdivMSY−ratio (1994−2015−SISIMP2016)

1st listed time series
2nd listed time series
3rd listed time series

MORA T
No Data
## Yelloweye rockfish Gulf of Alaska [YEYEROCKGA]

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*Start Year  End Year  No Data*
**Yelloweye rockfish Gulf of Alaska [YEYEROCKGA]**

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Listed time series, MSY-based BRP, Target BRP, Lim BRP, Rec-Est, No Data.
Yelloweye rockfish Gulf of Alaska [YEYEROCKGA]


TAC*, Cpair*, Cadv*

MSY*, MORAT*

survB*

CPUE*

EFFORT*

CdivMSY*

- 1st listed time series
- 3rd listed time series
- 2nd listed time series
- MORAT
- MSY
- No Data
## Yellowfin sole Bering Sea and Aleutian Islands [YSOLEBSAI]

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Yellowfin sole Bering Sea and Aleutian Islands [YSOLEBSAI]

TB−MT (1954−2015−SISIMP2016)

SSB−MT (1954−2015−SISIMP2016)

F−1/yr (1954−2015−SISIMP2016)

ER−calc−ratio (1954−2015−SISIMP2016)

R−E00 (1954−2015−SISIMP2016)

 Listed time series - Target BRP - MSY−based BRP - Lim BRP - Rec−Est - No Data

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