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- **Listed time series**
- **Target BRP**
- **MSY-based BRP**
- **Lim BRP**
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6
## Anchovy Central West Africa Gabon-Angola [ANCHOCWAGAB-AGO]

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Anchovy Central West Africa Gabon–Angola [ANCHOCWAGAB–AGO]

TB*  SSB*

TN*  F*

ER*  Recruits*

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

10
Anchovy Central West Africa Gabon–Angola [ANCHOCWAGAB–AGO]


MSY*, MORA T: NONE

CPUE*

CdivMSY*

EFFORT*

1st listed time series
2nd listed time series
3rd listed time series
MORAT
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- Start Year
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Anchovy North West Africa [ANCHONWA]

TB−MT (1990–2010–CHING)

SSB*

F−1/yr (1990–2010–CHING)

Recruits*

Listed time series
MSY−based BRP
Target BRP
Lim BRP
Rec−Est
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Axillary seabream North West Africa [AXBRMNWA]

TC−MT, TL*, RecC* (1990–2016–ASHBROOK)


MSY*, MORAT*

0 7,000

survB*

TAC*, Cpair*, Cadv*

CPUE*

EFFORT*

CdivMSY*

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

No Data

19
Bobo croaker Central West Africa Guinea-Liberia [BCROAKCWAGIN-LBR]

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survB*

CPUE−kg/day (1990–2006–CHING)

EFFORT*

CdivMSY*

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TB−index (1990–2007–CHING)

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Rec−Est
No Data

SSB*

TN *

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ER*

Recruits*

Legend:
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EFFORT*

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Seabream Central West Africa Guinea–Liberia [BRMSPPCWAGIN–LBR]


TAC*, Cpair*, Cadv*

survB*

EFFORT*


CdivMSY*

1st listed time series  3rd listed time series  MORAT
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Blue-spotted seabream North West Africa Mauritania–Senegal [BSBRMNWAMRT–SEN]

TB* | SSB*
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TN * | F*
ER* | Recruits*

Listed time series: Target BRP, MSY–based BRP, Lim BRP, Rec–Est, No Data
Bluespotted seabream North West Africa Mauritania–Senegal [BSBRMNWAMRT–SEN]

TC−MT, TL*, RecC* (1990–2016–ASHBROOK)

TAC*, Cpair*, Cadv*

CPUE*

CdivMSY*

1st listed time series
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Catfish Central West Africa Gabon [CATCWAGAB]

Listed time series

MSY-based BRP
Target BRP
Lim BRP
Rec−Est
No Data

TB−index (1995–2007−CHING)

SSB*

F*

ER*

Recruits*

Listed time series

Target BRP

MSY−based BRP
Lim BRP
Rec−Est
No Data

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- **MSY-based BRP**
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Lim BRP
Rec-Est
No Data
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TC−MT, TL*, RecC* (1990−2016−ASHBROOK)

TAC*, Cpair*, Cadv*

survB*

CPUE*

EFFORT*

CdivMSY*

1st listed time series  3rd listed time series  MORAT
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Cunene horse mackerel Central West Africa Gabon-Angola

[CHMACKCWAGAB-AGO]

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Listed time series

- MSY-based BRP
- Lim BRP

* No Data

74
Cunene horse mackerel Central West Africa Guinea Bissau-Liberia
[CHMACKCWAGNB-LBR]

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| **Management Authority** | Food and Agriculture Organization of the United Nations |
| **Assessor** | FAO Working Group on the Assessment of Small Pelagic Fish Off Northwest Africa |
| **Asmts in RAM** | 2017 |

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| SSB0 | - | - | - |
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TB*  SSB*

TN *  F*

ER*  Recruits*

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Cunene horse mackerel Central West Africa Guinea Bissau–Liberia [CHMACKCWAGNB–LBR]


**MSY*, MORA T: NONE**

**Cunene horse mackerel Central West Africa Guinea Bissau–Liberia [CHMACKCWAGNB–LBR]**
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Cunene horse mackerel North West Africa [CHMACKNWA]

Kobe MSY*

Kobe MGT*

Spawner Recruit*

Production (1990–2010–CHING)

Prod.  

Abund.

0 500,000

0 500,000

Start Year  End Year  No Data

81
Cunene horse mackerel North West Africa [CHMACKNWA]

**TB−MT** (1990−2010−CHING)

**SSB**

**TN**

**F−1/yr** (1990−2010−CHING)

**Recruits**

**ER−calc−ratio** (1990−2010−CHING)

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

82
Atlantic chub mackerel North West Africa [CMACKNWA]

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- **Start Year**
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Atlantic chub mackerel North West Africa [CMACKNWA]
### Croaker Central West Africa Cote Divoire-Benin [CROAKSPPCWACIV-BEN]

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

90
Croaker Central West Africa, Cote Divoire–Benin [CROAKSPPCWACIV–BEN]


TAC*, Cpair*, Cadv*

survB*

CPUE−kg/day (1990–2006–CHING)

EFFORT*

CdivMSY*

No Data

1st listed time series
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Croaker Central West Africa Gabon–Angola [CROAKSPPCWAGAB–AGO]

TB−index (1990–2007–CHING)

SSB*

TN *

F*

ER*

Recruits*

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

94
Croaker Central West Africa Guinea-Liberia [CROAKSPPCWAGIN-LBR]

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Croaker Central West Africa Guinea–Liberia [CROAKSPPCWAGIN–LBR]


TAC*, Cpair*, Cadv*

CPUE−kg/day (1994–2007–CHING)

EFFORT*

CdivMSY*

survB*

1st listed time series  
3rd listed time series  
2nd listed time series  
MORAT  
MSY  
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Croaker North West Africa Senegal_The Gambia [CROAKSPNWASEN_GMB]

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


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survB*

CPUE*

EFFORT*

CdivMSY*

TAC*, Cpair*, Cadv*
Coastal shrimp Central West Africa [CSHRIMPCWA]

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Coastal shrimp Central West Africa [CSHRIMPCWA]

TB*  SSB*

TN*  F*

ER*  Recruits*

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

Legend:
- Listed time series
- Target BRP
- MSY-based BRP
- Lim BRP
- Rec-Est
- No Data
Coastal shrimp Central West Africa [CSHRIMPCWA]


TAC*, Cpair*, Cadv*

survB*

EFFORT*

CPUE−kg/day (1990–2007–CHING)

CdivMSY*

1st listed time series
2nd listed time series
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Coastal shrimp Central West Africa [CSHRIMPCWA]
## Cuttlefish Central West Africa Ghana [CUTTLECWAGHA]

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Cuttlefish Central West Africa Ghana [CUTTLECWAGHA]

Kobe MSY*

Kobe MGT*

Spawner Recruit*

Production*

*Start Year  End Year  No Data
Cuttlefish Central West Africa Ghana [CUTTLECWAGHA]

TB−index (1990–2007−CHING)

SSB*

F*

ER*

Recruits*

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

110
**Cuttlefish North West Africa Cape Blanc [CUTTLENWACBL]**

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Cuttlefish North West Africa Cape Blanc [CUTTLENWACBL]

Kobe MSY*

Kobe MGT*

Spawner Recruit*

Production*

Start Year  End Year  No Data

113
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Kobe MSY*  Kobe MGT*

Spawner Recruit*  Production*

*Start Year  End Year  No Data
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Cuttlefish North West Africa Dakhla [CUTTLENWADAK]
**Cuttlefish North West Africa Senegal, The Gambia [CUTTLENWASEN_GMB]**

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TC−MT, TL*, RecC* (1990–2016–ASHBROOK)

TAC*, Cpair*, Cadv*

survB*

CPUE*

EFFORT*

CdivMSY*

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**Deep water rose shrimp Central West Africa [DRSHRIMPCWA]**

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Deep water rose shrimp Central West Africa [DRSHRIMPCWA]

- TB*
- SSB*
- TN *
- F*
- ER*
- Recruits*

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

*No Data*
Deep water rose shrimp Central West Africa [DRSHRIMPCWA]

TC−MT, TL*, RecC* (1990−2007−CHING)

TAC*, Cpair*, Cadv*

survB*

CPUE−kg/day (1990−2007−CHING)

EFFORT*

CdivMSY*

1st listed time series  ▲  3rd listed time series  MORAT
2nd listed time series  MSY  No Data
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- Start Year
- End Year
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European squid North West Africa Cape Blanc [ESQUIDNWACBL]

TB*  
SSB*  

TN *  
F*  

ER*  
Recruits*  

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

130
European squid North West Africa Cape Blanc [ESQUIDNWACBL]

TC−MT, TL*, RecC* (1990−2016−ASHBROOK)

TAC*, Cpair*, Cadv*

survB*

CPUE*

EFFORT*

CdivMSY*

1st listed time series

2nd listed time series

3rd listed time series

No Data

131
**European squid North West Africa Dakhla [ESQUIDNWADAK]**

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European squid North West Africa Dakhla [ESQUIDNWADAK]

Kobe MSY*

Kobe MGT*

Spawner Recruit*

Production*

• Start Year  • End Year  • No Data
European squid North West Africa Dakhla [ESQUIDNWADAK]

TB*

SSB*

TN *

F*

ER*

Recruits*

Listed time series

MSY-based BRP

Target BRP

Lim BRP

Rec-Est

No Data

* No Data
European squid North West Africa Dakhla [ESQUIDNWADAK]

TC−MT, TL*, RecC* (1990–2016–ASHBROOK)

TAC*, Cpair*, Cadv*

survB*

CPUE*

EFFORT*

CdivMSY*

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

135
**European squid North West Africa Senegal_The Gambia [ESQUIDNWASEN_GMB]**

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### European squid North West Africa Senegal_The Gambia [ESQUIDNWASEN_GMB]

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- MSY–based BRP
- Lim BRP
- Rec–Est
- No Data

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TC−MT, TL*, RecC* (1990−2010−CHING)

TAC*, Cpair*, Cadv*

survB*

CPUE*

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CdivMSY*

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Grey grunt Central West Africa Gabon–Angola [GGRUNTCWAGAB–AGO]


SSB*

0 120

TN *

1995 1997 1999 2001 2003 2005 2007

F*

ER*

Recruits*

Listed time series: Target BRP, MSY-based BRP, Lim BRP
Rec–Est: No Data
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Grey grunt Central West Africa Guinea–Liberia [GGRUNTCWAGIN–LBR]


TAC*, Cpair*, Cadv*

survB*

EFFORT*

CPUE−MT/day (1994–2007–CHING)

CdivMSY*

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Hake North West Africa Morocco [HAKENWAMAR]

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

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Horse mackerel North West Africa [HMACKNWA]

Kobe MSY*

Kobe MGT*

Spawner Recruit*

Production*

*Start Year  End Year  No Data
Large eye dentex Central West Africa Angola [LDENTCWAAGO]

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Large eye dentex Central West Africa Angola [LDENTCWAAGO]


SSB*

TN *

F*

ER*

Recruits*

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

166
Large eye dentex Central West Africa Angola [LDENTCWAAGO]

- **TAC*, Cpair*, Cadv**
- **survB**
- **EFFORT**
- **CdivMSY**

**Graphs**:
- **MSY**, **MORAT**

**Data**:
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Large eye dentex North West Africa [LDENTNWA]

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168
Kobe MSY* Kobe MGT*

Spawner Recruit* Production*

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Madeiran sardinella Central West Africa Cote Divoire–Benin [MSARDCWACIV–BEN]

Kobe MSY*

Kobe MGT*

Spawner Recruit*

Production*

*Start Year  End Year  No Data

173
Madeiran sardinella Central West Africa Cote Divoire–Benin [MSARDCWACIV–BEN]

TC−MT, TL*, RecC* (1990–2017–ASHBROOK)

MORA T: NONE

MSY*, MORAT: NONE

No Data

CPUE*

CdivMSY*

1st listed time series

3rd listed time series

2nd listed time series

MSY

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Cote Divoire−Benin [MSARDCWACIV−BEN]
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Madeiran sardinella North West Africa [MSARDNWA]

TB*  SSB*

TN *  F*

ER*  Recruits*

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

* No Data
Madeiran sardinella North West Africa [MSARDNWA]

TC−MT, TL*, RecC* (1990–2016–ASHBROOK)

MSY*, MORA T*

No Data

survB*

CPUE*

EFFORT*

CdivMSY*

TAC*, Cpair*, Cadv*

1st listed time series
2nd listed time series
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179
Octopus Central West Africa Guinea Bissau [OCTOCWAGNB]

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Octopus Central West Africa Guinea Bissau [OCTOCWAGNB]

TC−MT, TL∗, RecC∗ (1990−2007−CHING)

TAC∗, Cpair∗, Cadv∗

survB∗

CPUE∗

EFFORT∗

CdivMSY∗

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

No Data
Octopus North West Africa Cape Blanc [OCTONWACBL]

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186
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Rec-Est

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Octopus North West Africa Dakhla (OCTONWADAK)
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- **Area**: North West Africa Senegal, The Gambia
- **Management Authority**: Food and Agriculture Organization of the United Nations
- **Assessor**: FAO/CECAF Working Group on the Assessment of Demersal Resources
- **Asmts in RAM**: 2016

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Octopus North West Africa Senegal_The Gambia [OCTONWASEN_GMB]

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Pandora spp North West Africa [PANDSPPNWA]

Kobe MSY*

Kobe MGT*

Spawner Recruit*

Production*

*Start Year  End Year  No Data
Pandora spp North West Africa [PANDSPPNWA]

TB*  SSB*

TN*  F*

ER*  Recruits*

Listed time series  Target BRP  Rec–Est  MSY–based BRP  Lim BRP  No Data
Rubberlip grunt North West Africa [RGRUNTNWA]

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Rubberlip grunt North West Africa [RGRUNTNWA]

TC−MT, TL*, RecC* (1990–2016–ASHBROOK)

TAC*, Cpair*, Cadv*

CPUE*

EFFORT*

CdivMSY*

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survB_index−index (1990–2016–ASHBROOK)

Red pandora Central West Africa Cote Divoire-Benin [RPANDCWACIV-BEN]

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Red pandora Central West Africa Cote Divoire–Benin [RPANDCWACIV–BEN]


TAC*, Cpair*, Cadv*

survB*

CPUE–kg/day (1990–2007–CHING)

EFFORT*

CdivMSY*

1st listed time series  ▲  3rd listed time series  —— MORAT
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Red pandora North West Africa [RPANDNWA]

Kobe MSY*

Kobe MGT*

Spawner Recruit*

Production*

Start Year  End Year  No Data
Red pandora North West Africa [RPANDNWA]

TAC*, Cpair*, Cadv*

survB*

CPUE*

EFFORT*

CdivMSY*

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

MSY*, MORAT**

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# Round sardinella Central West Africa Cote Divoire-Benin [RSARDCWACIV-BEN]

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*Start Year  End Year  No Data
Round sardinella Central West Africa Cote Divoire–Benin [RSARDCWACIV–BEN]

TB*  SSF*

TN *  F*

ER*  Recruits*

Listed time series:  Target BRP – MSY–based BRP – Lim BRP

Rec–Est * No Data

214
Round sardinella Central West Africa Cote Divoire–Benin [RSARDCWACIV–BEN]


TAC*, Cpair*, Cadv*

survB_index−index (1990–2017–ASHBROOK)

CPUE*

EFFORT*

CdivMSY*

1st listed time series
2nd listed time series
3rd listed time series
MORAT
MSY
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**Round sardinella North West Africa [RSARDNWA]**

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Lim BRP
Rec-Est
No Data

Recruits

Round sardinella North West Africa [RSARDNWA]
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Sardinella Central West Africa Guinea Bissau–Liberia [SARDINCWAGNB–LBR]

Kobe MSY*

Kobe MGT*

Spawner Recruit*

Production*

*Start Year  * End Year  * No Data

225
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- **MSY–based BRP**
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Sardine North West Africa Zone A+B [SARDNWAZAB]

TB−MT (1990−2010−CHING)

SSB*

F−1/yr (1990−2010−CHING)

Recruits*

Listed time series
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Rec−Est
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233
### Seabreams spp North West Africa Morocco [SBMSPPNWAMAR]

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- Start Year
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Seabreams spp North West Africa Morocco [SBMSPPNWAMAR]

TB*  SSB*

TN*  F*

ER*  Recruits*

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

238
Seabreams spp North West Africa Morocco [SBMSPPNWAMAR]

TC−MT, TL*, RecC* (1990−2016−ASHBROOK)

TAC*, Cpair*, Cadv*

survB* 

EFFORT* 

CPUE−index (1990−2016−ASHBROOK)

CdivMSY* 

Legend:

- 1st listed time series
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Scad spp Central West Africa Guinea Bissau–Liberia [SCADSPCPWAGNB–LBR]

TB*  

SSB*

TN *  

F*

ER*  

Recruits*

Listed time series:  
- Solid line: Target BRP  
- Dashed line: MSY-based BRP  
- Dotted line: Lim BRP  
- Asterisk: No Data

No Data
Scad spp Central West Africa Guinea Bissau–Liberia [SCADSPPC Wagner–LBR]


MSY*, MORT: NONE

TAC*, Cpair*, Cadv*

survB_index−index (1994–2017–ASHBROOK)

CPUE*

EFFORT*

CdivMSY*

1st listed time series
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MORAT
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Kobe MSY*

Kobe MGT*

Spawner Recruit*

Production*

*Start Year  End Year  No Data

253
Sole Central West Africa Guinea Bissau–Guinea [SOLECWAGNB–GIN]


TAC*, Cpair*, Cadv*

CPUE*

EFFORT*

CdivMSY*

survB_index−index (1994–2009–ASHBROOK)

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

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1995 1997 1999 2001 2003 2005 2007

Southern pink shrimp Central West Africa [SPSHRIMPCWA]

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Southern pink shrimp Central West Africa [SPSHRIMPCWA]

TC−MT, TL*, RecC* (1990–2007−CHING)

MSY*, MORA T*

TAC*, Cpair*, Cadv*

survB*

EFFORT*

CPUE−kg/day (1990–2007−CHING)

CdivMSY*

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0 7,000


1st listed time series  ▲  3rd listed time series  —  MORAT

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Southern pink shrimp North West Africa Mauritania [SPSHRIMPNWAMRT]

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*Start Year  End Year  No Data
Southern pink shrimp North West Africa Mauritania [SPSHRIMPNWAMRT]

TB*

SSB*

TN *

F*

ER*

Recruits*

Listed time series
MSY–based BRP
Target BRP
Lim BRP
Rec–Est
No Data
Southern pink shrimp North West Africa Mauritania [SPSHRIMPNWAMRT]

TC−MT, TL*, RecC* (1990–2019−ASHBROOK)

TAC*, Cpair*, Cadv*

CPUE*

EFFORT*

CdivMSY*

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Southern pink shrimp North West Africa Senegal_The Gambia [SPSHRIMPNWASEN_GMB]

TB* SSB* 

TN * F* 

ER* Recruits* 

Listed time series - Target BRP - MSY–based BRP - Lim BRP * No Data
Southern pink shrimp North West Africa Senegal/The Gambia [SPSHRIMPNWASEN_GMB]

TC−MT, TL*, RecC* (1987−2016−ASHBROOK)

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
2nd listed time series
3rd listed time series

MORAT

MSY

No Data
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*Start Year  End Year  No Data

269
Listed time series

- MSY-based BRP
- Target BRP
- Lim BRP
- Rec–Est
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* Threadfin Central West Africa Côte Divoire–Benin [THREADCWACIV–BEN]

- TN *
- SSB *
- ER *
- F *
- Recruits *
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- **Assessor**: FAO/CECAF Working Group on the Assessment of Demersal Resources
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Kobe MSY*  Kobe MGT*

Spawner Recruit*  Production*

*Start Year  End Year  No Data
Threadfin Central West Africa Gabon–Angola [THREADCWAGAB–AGO]

TB−index (1990−2007−CHING)

SSB*

TN *

F*

ER*

Recruits*

* Listed time series
- MSY−based BRP
- Lim BRP
- Target BRP
- Rec−Est
- No Data
Threadfin Central West Africa Gabon–Angola [THREADCWAGAB–AGO]

TC−MT, TL*, RecC* (1990–2007−CHING)

TAC*, Cpair*, Cadv*

survB*

CPUE−kg/day (1990–2007–CHING)

EFFORT*

CdivMSY*

1st listed time series
2nd listed time series
3rd listed time series
MSY
MORA T
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Threadfin Central West Africa Gabon−Angola [THREADCWAGAB−AGO]
### Threadfin Central West Africa Guinea-Liberia [THREADCWAGIN-LBR]

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Listed time series
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White grouper North West Africa Mauritania–Senegal [WGROUPNWAMRT−SEN]

Kobe MSY*  Kobe MGT*

Spawner Recruit*  Production*

*Start Year  End Year  No Data
White grouper North West Africa Mauritania–Senegal [WGROUPNWAMRT−SEN]

TB*  SSB*

TN*  F*

ER*  Recruits*

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

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