

ECOREGION **Widely distributed and migratory stocks**
STOCK **Alfonsinos/Golden eye perch (*Beryx* spp.) in the Northeast Atlantic**

Advice for 2013 and 2014

Based on the ICES approach for data-limited stocks, ICES advises that catches should be no more than 280 tonnes.

This is the first year ICES is providing quantitative advice for data-limited stocks (see Quality considerations).

Stock status

F (Fishing Mortality)		
	2009–2011	
MSY (F_{MSY})	?	Unknown
Precautionary approach (F_{pa}, F_{lim})	?	Unknown
Qualitative evaluation	?	Unknown
SSB (Spawning-Stock Biomass)		
	2009–2011	
MSY ($B_{trigger}$)	?	Unknown
Precautionary approach (B_{pa}, B_{lim})	?	Unknown
Qualitative evaluation	?	Unknown

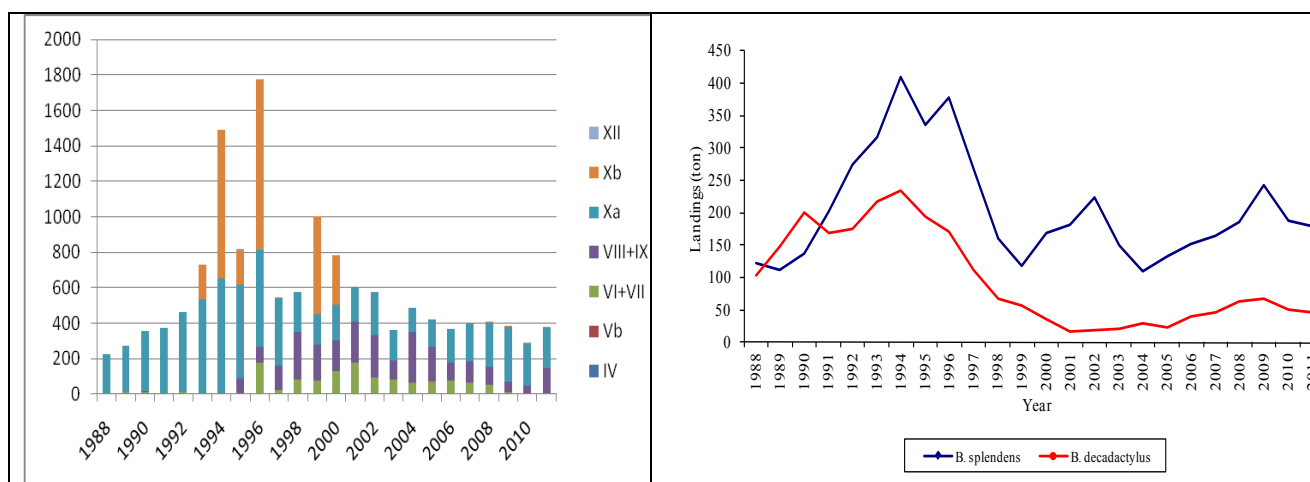


Figure 9.4.18.1 Alfonsinos in the Northeast Atlantic. Landings (tonnes) from the main fishing areas for species combined (left) and from the Azores (ICES Subarea X) longline fishery by species (right).

Total landings declined in the late 1990s and have since stabilised at about 400 tonnes (for the two species combined). Species specific landings trends in the Azores fishery showed similar trends for both species. The survey abundance index for *Beryx splendens* declined significantly between 1995 and 1997 and has since remained at very low levels.

The mean length for *B. splendens* shows an increase from 1995 to 1997 and has been stable at a lower level since 1999.

Management plans

No specific management objectives are known to ICES.

Biology

This advice section deals with two species, *Beryx splendens* and *B. decadactylus*. They are distributed over a wide area which may be composed of several populations.

The fisheries

Most (50%) of the landings of *Beryx* spp. are taken by handlines and longlines within the Azorean EEZ of Subarea X and by trawl outside the EEZ on the Mid-Atlantic Ridge.

Catch distribution Total catch (2011) is 0.38 kt, all of which is landings.

Quality considerations

The general absence of data on species composition of the catches and biological parameters are important limiting factors for the knowledge of these fish stocks. Underreporting of catches from international waters is suspected in some years.

The survey abundance indices may be not reliable as they are not adjusted for the species behaviour (highly mobile and aggregative species). The low number of individuals caught annually is not enough to map the abundance of the species, resulting in a large number of null stations (stratum by set and area). This is particularly applicable to *B. decadactylus*.

The advice is based on a precautionary reduction of catches because of missing or non-representative data. The methods applied to derive quantitative advice for data-limited stocks are expected to evolve as they are further developed and validated.

Scientific basis

Assessment type	Landings.
Input data	Landings, Azorean longline survey abundance indices.
Discards and bycatch	No discards information is available.
Indicators	None.
Other information	None.
Working group report	WGDEEP

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Reference points

No reference points have been defined for these stocks.

Outlook for 2013 and 2014

No reliable assessment can be presented for this assessment unit and fishing possibilities cannot be projected.

ICES approach to data-limited stocks

For data-limited stocks without information on abundance or exploitation ICES considers that a precautionary reduction of catches should be implemented, unless there is ancillary information clearly indicating that the current exploitation is appropriate for the stock.

For this stock, ICES advises that catches should decrease by 20% in relation to the last three years' average catch, corresponding to catches of no more than 280 t in 2013. As three years is considered to be the minimum period required to see an effect of the precautionary buffer on the stock, no changes in the advice are expected before then unless the data clearly indicate otherwise.

Additional considerations

As a consequence of alfonsinos' spatial distribution associated with seamounts, their life-history, and their aggregation behaviour, these species are easily overexploited; they can only sustain low rates of exploitation. To prevent depleting localised aggregations that have not yet been mapped and assessed the exploitation of new seamounts should not be allowed.

Source

ICES. 2012. Report of the Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources, 29 March–5 April 2012, ICES Headquarters, Copenhagen. ICES CM 2012/ACOM:17.

Table 9.4.18.1 Alfonsinos in the Northeast Atlantic. ICES advice, management, and landings.

Year	ICES Advice	Predicted catch corresp. to advice	TAC EU ¹	ICES landings
2003	Fishery should not be allowed to expand, unless proven to be sustainable and accompanied by programmes to collect data on by(catch)			0.37
2004	Biennial			0.49
2005	Fisheries accompanied by programmes to collect data on by(catch)	-	0.328	0.42
2006	Biennial	-	0.328	0.37
2007	Fishery should not be allowed to expand, unless proven to be sustainable	-	0.328	0.40
2008	Biennial	-	0.328	0.40
2009	Fishery should not be allowed to expand, unless proven to be sustainable	-	0.328	0.38
2010	Biennial	-	0.328	0.29
2011	Fisheries should not be allowed to expand, and a reduction in catches should be considered	-	0.328	0.38
2012	No new advice, same as 2011	-	0.328	
2013	20% Reduction in catches (last 3 years' average)	0.28		
2014	No new advice, same as 2013			

Weights in thousand tonnes.

¹ Subareas III, IV, V, VI, VII, VIII, IX, X, XII, and XIV.

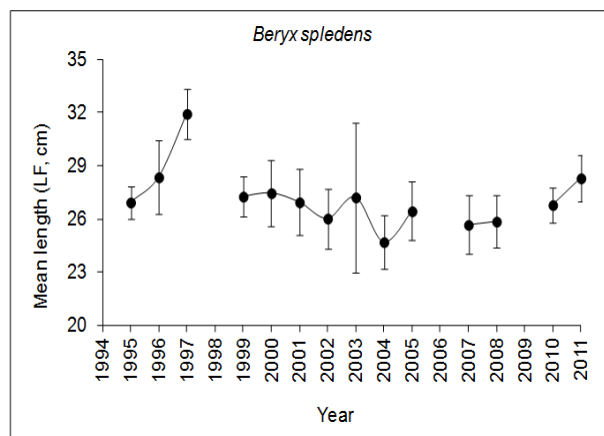


Figure 9.4.18.2 Alfonsinos in the Northeast Atlantic. Survey abundance index and mean length of *B. splendens*.

Table 9.4.18.2 Alfonsinos in the Northeast Atlantic. ICES estimates of landings (tonnes) by subarea.

YEAR	IV	VB	VI+VII	VIII+IX	XA	XB	XII	TOTAL
1988			0	0	225	0		225
1989			12	0	260	0		272
1990	1	5	8	1	338	0		353
1991			0	0	371	0		371
1992	2	4	3	1	450	0		460
1993			1	0	533	195		729
1994			5	2	644	837		1488
1995		1	3	82	529	200	2	817
1996			178	88	550	960		1776
1997			26	135	379	5		545
1998			81	268	229	0		579
1999			75	201	175	550		1001
2000			133	168	203	281		785
2001			180	228	199	0		607
2002			95	238	243	0		577
2003			84	105	172	0		361
2004			64	283	139	0		485
2005			70	195	157	0		422
2006			78	97	192	0		367
2007			65	120	211	0		396
2008	0	0	54	101	250	2		407
2009			10	61	311	1		383
2010	0	0	5	41	240	5		291
2011*	0	0	4	141	226	5		375

*Preliminary.

Table 9.4.18.3 Alfonsinos in the Northeast Atlantic. Reported landings (tonnes) of *Beryx splendens* and *B. decadactylus* in the Azores (ICES Division Xa).

YEAR	<i>B. SPLENDENS</i>	<i>B. DECADACTYLUS</i>	TOTAL
1988	122	103	225
1989	113	147	260
1990	137	201	338
1991	203	168	371
1992	274	176	450
1993	316	217	533
1994	410	234	644
1995	335	194	529
1996	379	171	550
1997	268	111	379
1998	161	68	229
1999	119	56	175
2000	168	35	203
2001	182	17	199
2002	223	20	243
2003	150	22	172
2004	110	29	139
2005	134	23	157
2006	152	40	192
2007	165	46	211
2008	187	63	250
2009	243	68	311
2010	189	51	240
2011*	179	47	226

* Preliminary.