

SCRS/2019/114



THE WAHOO *Acanthocybium solandri* (Cuvier, 1832) FISHERY IN EI HIERRO ISLAND (CANARY ISLANDS, SPAIN) and BIOLOGY in the East Atlantic Ocean

ATLANTIC OCEAN



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SCRS_24-27 June Olhão (Portugal) 2019)
2019 Intersessional meeting of the ICCAT small tunas species group

MAIN INFORMATION

Introduction and history of fishery

Results

Landing in Canary Islands and El Hierro

Size, weight and length distribution

Relationship whole weight and length

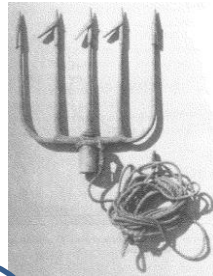
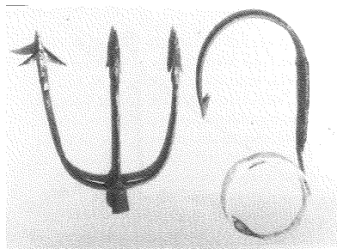
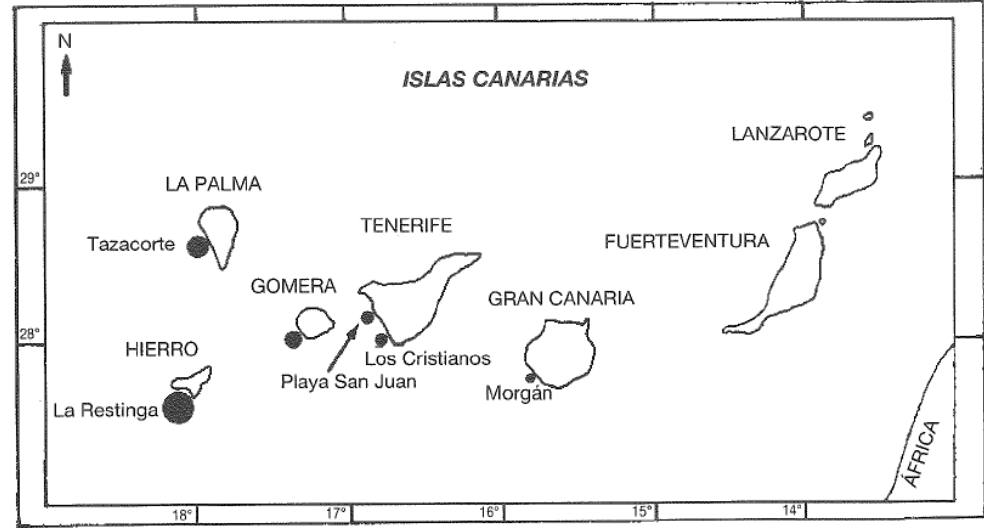
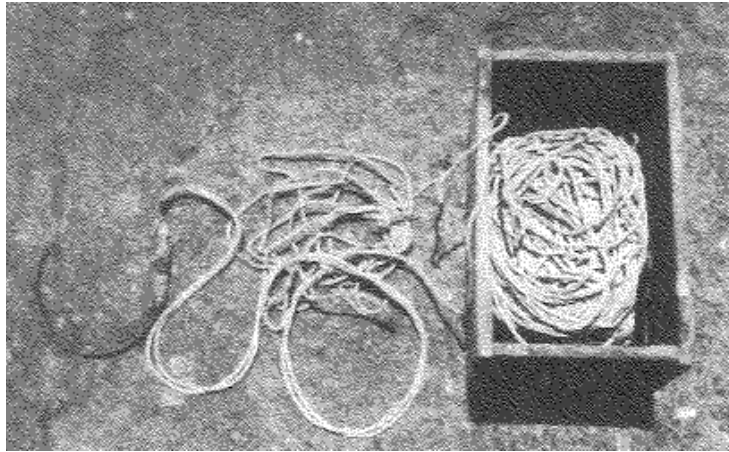
Discussion

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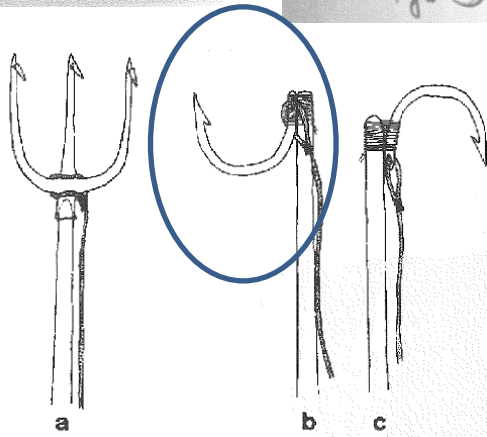
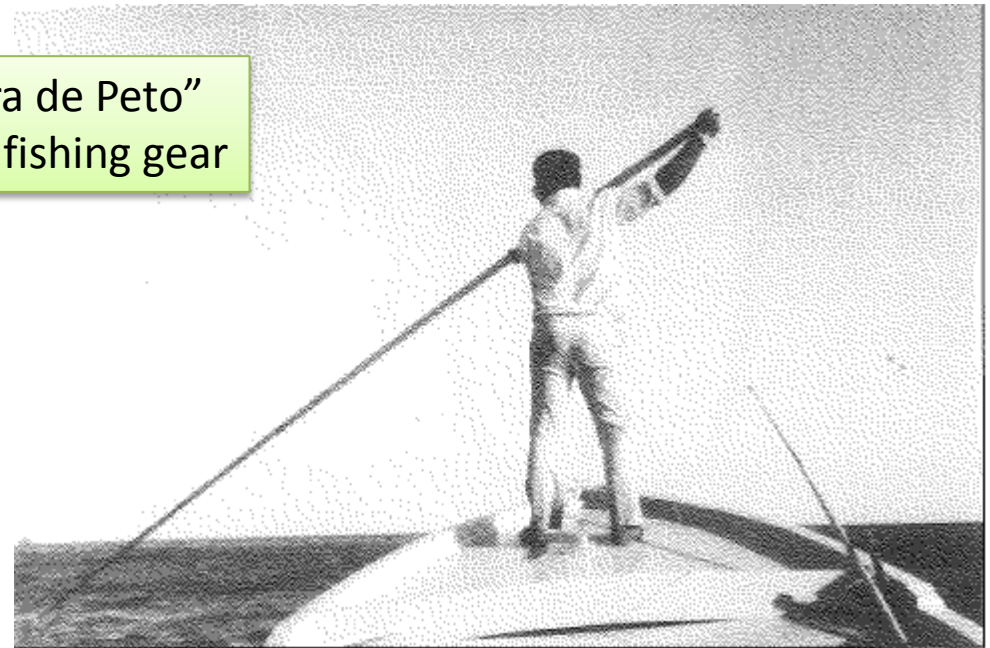


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Historical fishery wahoo view



“Vara de Peto”
Main fishing gear



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La Restinga the principal landing harbor for wahoo in Canary Islands

LANDING BY HARBOUR



+ 20 t stored frozen in 2018 “La Restinga” .
.- Around 3 t landing by month.



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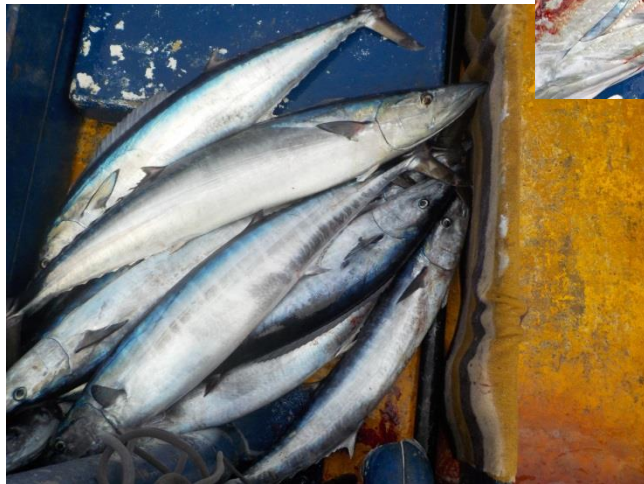
Artisanal fishery wahoo in El Hierro (Canary Islands)



Small artisanal boat with "Vara de Peto"



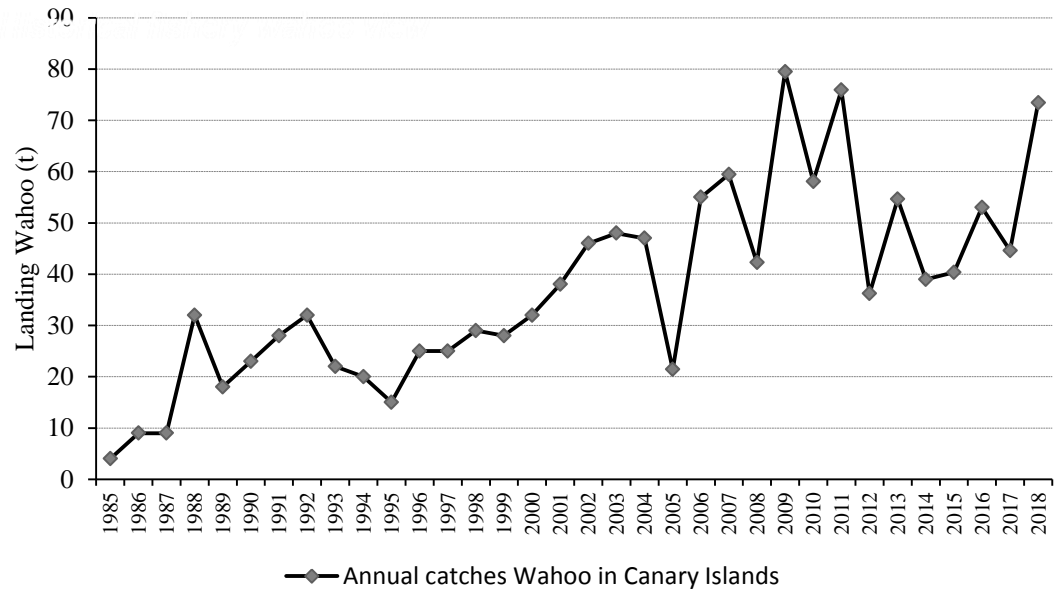
Hand line with hook tied with steel wire



CATCHES



Years	Total Catch Wahoo (t)
1985	4
1986	9
1987	9
1988	32
1989	18
1990	23
1991	28
1992	32
1993	22
1994	20
1995	15
1996	25
1997	25
1998	29
1999	28
2000	32
2001	38
2002	46
2003	48
2004	47
2005	21,4
2006	55
2007	59,5
2008	42,3
2009	79,5
2010	58,1
2011	75,9
2012	36,2
2013	54,6
2014	39,0
2015	40,4
2016	53,0
2017	44,6
2018	73,4



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Landing data serie 2007-2018 of wahoo by harbor



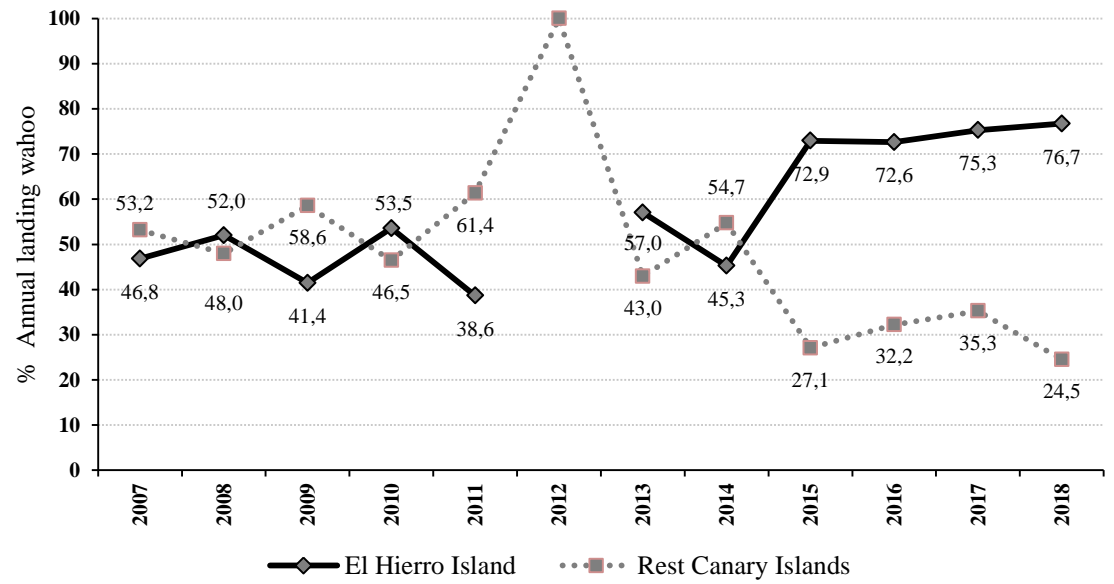
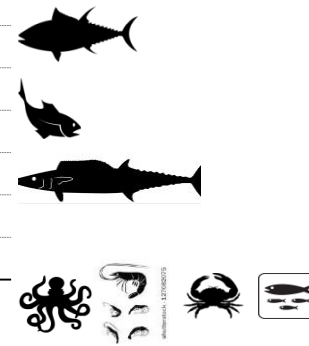
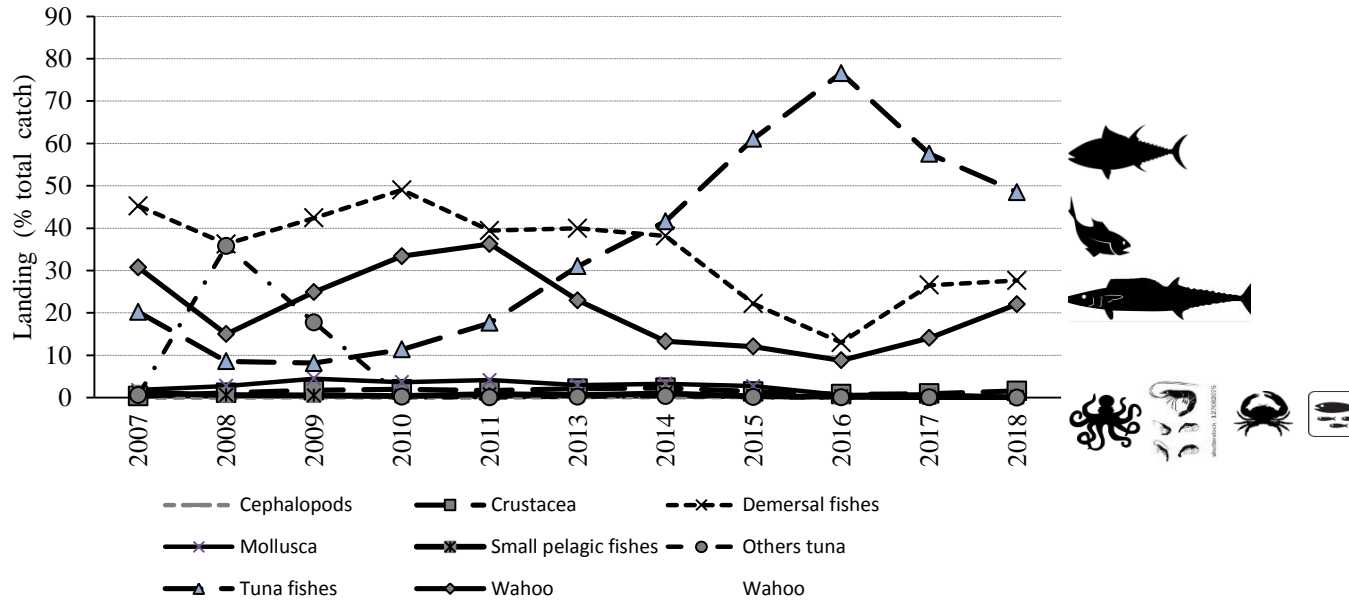
Landing Port	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Arguineguín (Gran Canaria)			19	21	395		14		29		20	
San Cristóbal (Gran Canaria)	89	73	71							3		
Taliarte (Gran Canaria)				39	210	209	52	20				21
Total Gran Canaria	89	73	90	59	604	209	66	20	29	3	20	21
Playa Blanca (Lanzarote)				80		68		20	35			108
Arrecife (Lanzarote)				12		20	40	27		80		
Caleta del Sebo (Lanzarote)		385		99	252			40				
Total Lanzarote	0	385	0	191	252	88	40	87	35	80	0	108
Gran Tarajal (Fuerteventura)				40	69	4574	26		72		44	
Morro Jable (Fuerteventura)		108	2795	2107	3401	8890	65	288	297	1043	246	53
Total Fuerteventura	0	108	2795	2147	3470	13464	91	288	369	1043	290	53
Valle Gran Rey (La Gomera)		150	1209	528	203	105	1016	701	337	457	386	
San Sebastián (La Gomera)												420
Total La Gomera	0	150	1209	528	203	105	1016	701	337	457	386	420
Los Abrigos (Tenerife)							20	191	25	166	294	446
Los Cristianos (Tenerife)			393	414	185	18						
Guía Isora (Tenerife)			26	55,5	81	907	346					
Garachico (Tenerife)							11			18,5	20	17
Candelaria (Tenerife)										11	411	239
Playa de San Juan (Tenerife)								194	759	1241	1496	1748
Puerto de La Cruz (Tenerife)			20		20							
San Andrés (Tenerife)								23				89
Tajao (Tenerife)			232	183	484	170	73	46	47	106	164	378
Santa Cruz de Tenerife	28275	14196	26885	17494	23947	9753	13507	9634	4823	6237	2581	3383
Total Tenerife	28275	14196	27557	18146	24717	10848	13956	10088	5654	7779	4964	6300
Santa Cruz de La Palma		2545	6643	2832	10246	5813	3257	3585	2047	2477	1382	1207
Tazacorte (La Palma)	3240	2817	8256	3081	7092	5678	5041	6572	2452	2684	3992	8981
Total La Palma	3240	5362	14899	5914	17339	11491	8298	10158	4499	5160	5374	10188
La Estaca (El Hierro)										2548	4691,5	910
La Restinga (El Hierro)	27852	21979	32936	31105	29322		31167	17641	29434	35947	28867	55415
Total El Hierro	27852	21979	32936	31105	29322	***	31167	17641	29434	38495	33558	56325
Total Canary Islands(Kg)	59455	42253	79485	58089	75888	36205	54634	38982	40357	53017	44593	73415



Discussion

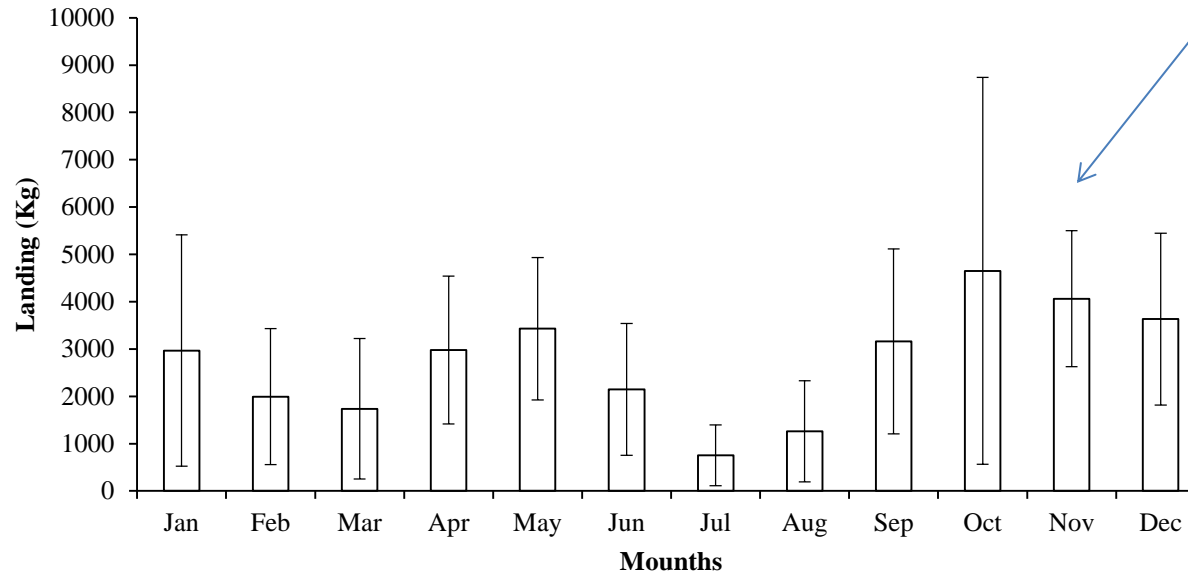
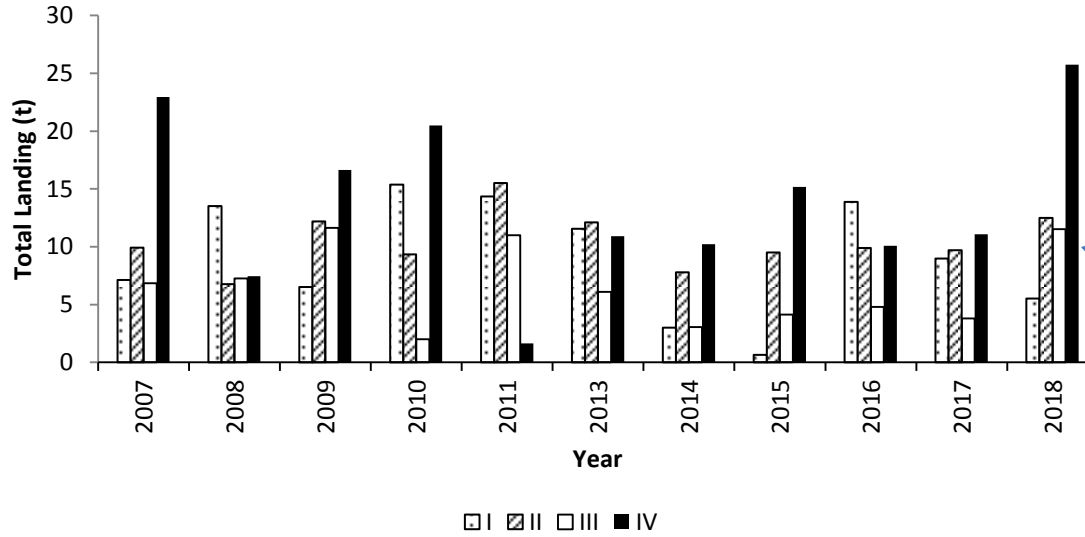
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Exploited marine resources in El Hierro



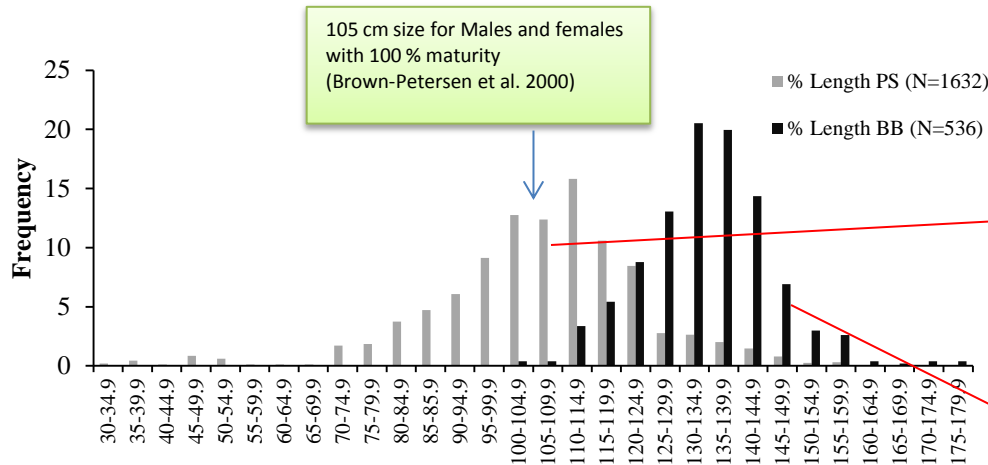
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Seasonal landing wahoo in El Hierro from 2007-2018

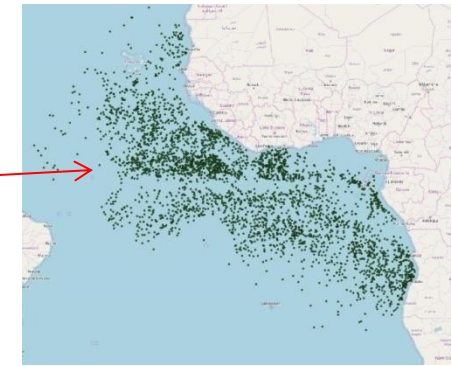




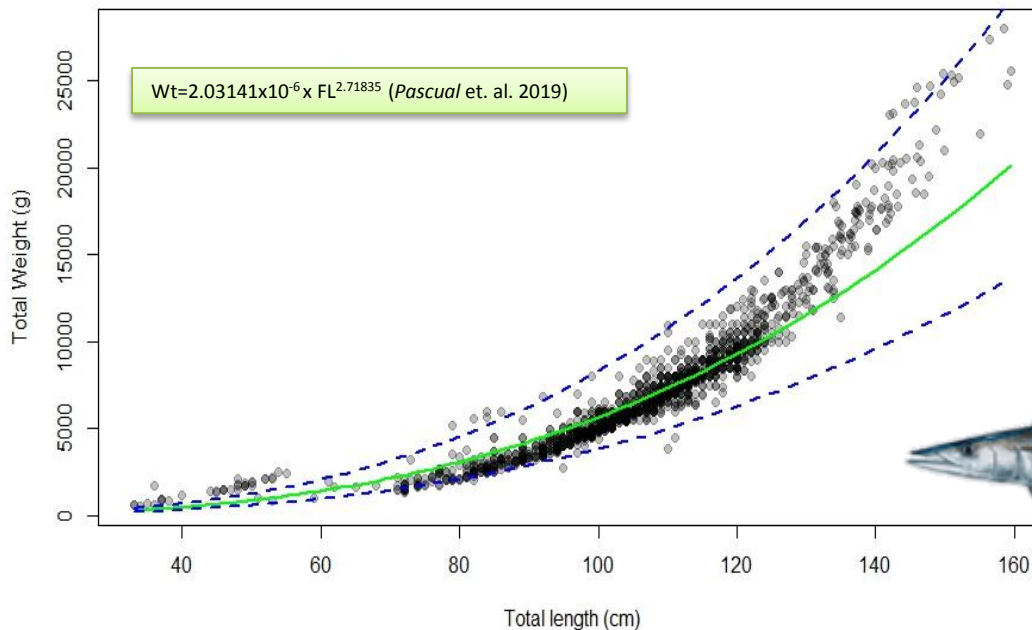
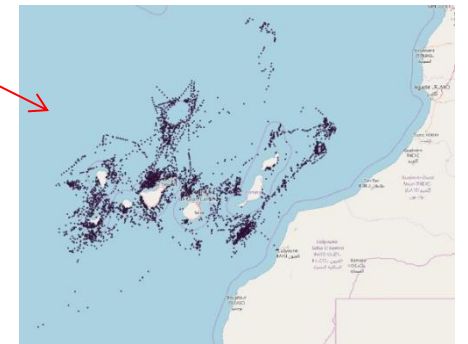
Length distribution (cm) by fishing mode in East Atlantic Ocean



Fishing ground PS vessels



Fishing ground BB Canary vessels



The growth wahoo is allometric negative ($b < 3$)

Froese 2006



Hypothesis a la population???

Ho: $\beta = 3$ isometric growth
H1: $\beta \neq 3$ allometric growth

Función: hoCoef() in FSA in R, rejection hypothesis Ho:

THANKS YOU FOR YOUR ATENTION