9.14 SMT - Small tunas

SMT-1. Generalities

The species under the Small Tunas Species Group include the following tuna and tuna-like species:

- BLF Blackfin tuna (*Thunnus atlanticus*)
- BLT Bullet tuna (*Auxis rochei*)
- BON Atlantic bonito (*Sarda sarda*)
- BOP Plain bonito (*Orcynopsis unicolor*)
- BRS Serra Spanish mackerel (*Scomberomorus brasiliensis*)
- CER Cero (*Scomberomorus regalis*)
- COM Narrow-barred Spanish mackerel (*Scomberomorus commerson*)
- FRI Frigate tuna (*Auxis thazard*)
- KGM King mackerel (*Scomberomorus cavalla*)
- LTA Little tunny (*Euthynnus alletteratus*)
- MAW West African Spanish mackerel (*Scomberomorus tritor*)
- SSM Atlantic Spanish mackerel (*Scomberomorus maculatus*)
- WAH Wahoo (*Acanthocybium solandri*)

Knowledge on the biology and fishery of small tunas is very fragmented. Furthermore, the quality of the knowledge varies according to the species concerned. This is due in large part to the fact that these species are often perceived to have little economic importance compared to other tunas and tuna-like species, and owing to the difficulties in conducting sampling of the landings from artisanal fisheries, which constitute a high proportion of the fisheries exploiting small tuna resources. The large industrial fleets often discard small tuna catches at sea or sell them on local markets mixed with other bycatches, especially in Africa. The amount caught is rarely reported in logbooks; however, observer program from purse seine fleets have recently provided estimates of catches of small tunas.

Small tuna species can reach high levels of catch and values in some years and have a very high relevance from a social and economic point of view, because they are important for many coastal communities in all areas and a main source of food. Their social and economic value is often not evident because of the underestimation of the total landing figures, due to the difficulties in data collection mentioned above. Several statistical problems are also caused by misidentification.

Scientific collaboration between ICCAT, Regional Fisheries Organizations (RFOs) and countries in the various regions is imperative to advance understanding of the distribution, biology and fisheries of these species.

SMT-2. Biology

Small tuna species are widely distributed in the tropical and subtropical waters of the Atlantic Ocean and several are also distributed in the Mediterranean Sea and the Black Sea. Some species extend their range even into colder waters, like the North and South Atlantic Ocean. They often form large schools with other small sized tunas or related species in coastal and high seas waters.

Additional genetic analysis for a number of small tunas was done in 2024 under the Small Tunas Year Programme (SMTYP). Samples from Brazil, Côte d'Ivoire, EU-Spain, Gabon and Morocco all showed a lack of genetic differentiation for wahoo (WAH). For bonito (BON), new samples from Côte d'Ivoire were added to the existing data set, and their analysis confirmed the genetic separation between two populations: one in the North Atlantic Mediterranean and another in the Tropical Atlantic. Finally for little tunny (LTA), new samples from Tunisia and São Tomé e Príncipe show deep genetic differentiation at species level.

Generally, the small tuna species have a varied diet with a preference for small pelagics (e.g. clupeids, mullets, carangids, etc.). Small tunas are the prey of large tunas, marlins, sharks and marine mammals which at the same time are predators of small pelagics. The reproduction period varies according to species and areas and spawning generally takes place near the coast in oceanic areas, where the waters are warmer. A study conducted on the eastern coast of Tunisia has shown that the spawning area of the bullet tuna is offshore at the limit of the continental shelf and related to the high abundance of the zooplankton. A study recently carried out along the Gulf of Gabes (Ionian Sea-Mediterranean) indicated that the larvae of the bullet tuna were mainly concentrated between the isobaths 50 and 200 m, and the spawning grounds of this species were mainly offshore.

The growth rate currently estimated for these species is very rapid for the first two or three years, and then slows as they reach size-at-first maturity. Most small tuna species matures at small sizes, mostly between 30 and 50 cm, except wahoo for which size at first maturity varies between 92 and 110 cm. Information on the migration patterns of small tuna species is very limited, due to low tagging levels of these species. However, a new genetic study showed that there is a clear genetic heterogeneity for the bullet tuna among different geographical locations in the Mediterranean, suggesting that the population structure of this species in the Mediterranean is more complex than initially expected. In a recent preliminary genetic study conducted within the SMTYP for little tunny, it was observed a strong population structure, separating into two clades the individuals from EU-Portugal and Tunisia, and those from Senegal and Côte d'Ivoire. Also, recent studies of the population structure of Atlantic bonito in three areas - MD (Tunisia and EU-Spain); AT-NE (EU-Portugal and Morocco) and AT-SE (Côte d'Ivoire, Gabon and Senegal) - showed clear differential structure, being the location of Côte d'Ivoire the most genetically differentiated location.

Within the ICCAT Atlantic Ocean Tropical Tuna Tagging Programme (AOTTP), a total of nearly 8,000 little tunny were tagged off West Africa and western Atlantic between August 2016 and April 2019, with nearly 600 tags being recovered. This converts to a 7% tag recovery rate. Both tag releases and recoveries of little tunny have occurred in "coastal" waters between Mauritania and Côte d'Ivoire. The longest "time at liberty" observed (700 days) and migrated 929 nautical miles (NM). Little tunny have been tagged on both sides of the tropical Atlantic; however no cross-Atlantic movement has yet been reported, indicating rather coastal associated movements.

In 2018 and 2019, the open database provided in the 2016 Intersessional Meeting of the Small Tunas Species Group (ICCAT, 2017d) (Juan-Jordá *et al*., 2016) with a thorough review of the Scombridae life history parameters was considered as a starting point for a meta-database of the Atlantic small tunas species, and the Group considered this proposal for updating and sharing parameters and useful references. The Group determined the main life history parameters to be compiled (for example, L_{INF}, k, t0, L50, A50, L_{MAX}, a (L-W), b (L-W), batch fecundity) and, that the areas defined by ICCAT previously (ICCAT Statistical Areas Map 4) were adequate for SMT and studies should be carried based on such spatial unities.

The updated database, available for all participants and stored in the ICCAT Owncloud, allowed for data mining, based on the most reliable parameters by region for each species and, spatial visualization of current status and data gaps in the life history parameters of SMT species were provided (**SMT-Table 2**). This information will be used to assess future research needs and for running Data Limit Models, when applicable.

SMT-3. Fisheries indicators

Small tunas are exploited mainly by coastal and artisanal fisheries, substantial catches are also made as target species and as bycatch by purse seine, mid-water trawl (i.e., pelagic fisheries of Mauritania), handline and small-scale gillnets. Unknown quantities of small tuna also comprise the incidental catches of some longline fisheries. The increasing importance of fish aggregating device (FAD) fisheries in the eastern Caribbean and in other areas has improved the efficiency of artisanal fisheries in catching small tunas. Various species are also caught by the sport and recreational fisheries.

Despite the scarce monitoring of various fishing activities in some areas, all the small tuna fisheries have high social and economic relevance for most of the coastal countries concerned and for many local communities, particularly in the Mediterranean Sea, in the Caribbean region and in West Africa.

SMT-Table 1 shows historical landings of small tunas for the 1990 to 2023 (current as of 21 September 2024). This table does not include species reported as "mixed" or "unidentified", as was the case in the previous years, since these categories include large tuna species. Of the total 13 species included in the Small Tunas Species Group, the seven most important represent about 91% of Task 1 nominal catches between 1950 and 2023. These are: BON (31%), LTA (18%), FRI (13%) KGM (12%), SSM (9%), BLT (5%), and WAH (4%). In 1980, there was a marked increase in the reported landings compared to previous years, reaching a first peak of 145,492 t in 1988 (**SMT-Figure 1**). Reported landings for the 1989-1995 period decreased to about 95,900 t in 1995, and then an oscillation in the values in the following years, with a minimum of 69,117 t in 2008 and a maximum of 175,042 t in 2022. The annual trend in the total catches by species are shown in **SMT-Figure 2**. Overall trends in the small tuna catch may mask declining trends for individual species because annual landings are often dominated by the landings of single species. These fluctuations seem to be related to unreported catches, as these species generally comprise part of the bycatch and are often discarded, and therefore do not reflect the real catch.

Current estimate of total nominal landings of small tunas in 2023 is 129,931 t. The Committee pointed out the relative importance of small tuna fisheries in the Mediterranean and the Black Sea, which account for about 30% of the total small tuna catches (1950 to 2023) in the ICCAT area.

Despite the recent improvements in the statistical information provided to ICCAT by several countries, the Committee noted that uncertainties remain regarding the accuracy and completeness of reported landings in all areas. There is a general lack of information on the mortality of these species as bycatch.

However, after the adoption of the SMTYP in 2012, significant historical catches, catch and effort and size data from the artisanal fisheries in the west of Africa (Côte d'Ivoire, Morocco and Senegal) and from the Mediterranean Sea (EU-Italy and EU-Spain) were recovered and made available to the Secretariat.

SMT-4. State of the stocks

In 2017, a Productivity and Susceptibility Analysis (PSA) was carried out for the small tuna caught by longline and purse seine fisheries in the Atlantic. The study found that the top 3 stocks at risk in the Atlantic Ocean that should deserve most of the managers' attention were *E. alleteratus*, *A. solandri* and *S. cavalla*. This first analysis was very important in order to define priority species for stock assessment and biological data collection. However, this analysis will be improved by considering the five statistical ICCAT areas and the relevant fishing gears for each stock.

Also, as an initial attempt to provide stock status of the SMT, the lengths distributions and the reference points obtained from length frequencies for the small tuna species in the Task 2 database, pooled by species, year and considering the South and North Atlantic are plotted in **SMT-Figure 3**. To avoid growth overfishing, catch length compositions should consist of fish at a size at which the highest yield from a cohort occurs (L_{OPT}). While to avoid recruitment overfishing, catches should comprise almost exclusively mature individuals (i.e., fish be >L50, the length at which 50% of fish are mature). Two reference points were used, i.e., P_{OPT} and P50, the proportion of individuals in the catch size data that are greater than L_{OPT} and L50, respectively. However, L_{OPT} is based on a per recruit analysis which ignores recruitment dynamics, for example the age/size structure and the distribution of a population which all determine productivity and hence sustainability and the formulation of robust management advice.

These data are re-plotted in **SMT-Figure 4** as an example of how they could be used as indicators of growth and recruitment overfishing. For example, if L_{OPT} is used as a target with a probability of 0.5 and a tolerance of ±0.25 to allow limited fluctuations around the target; then in **SMT-Figure 4a** green indicated that length compositions meet this target and red when exceeded. For recruitment overfishing, if 0.6 is used as a limit for P50, then any catches where less than 40% are mature fish are colored red (**SMT-Figure 4b**).

The plots show that in most cases poor yield optimization is occurring, but that recruitment overfishing is not. Although in two cases (WAH in the southern Atlantic and LTA in the North Atlantic) recruitment overfishing has increased in the recent period.

In 2018, preliminary results on the implementation of data-limited approaches for small tunas using simulation testing were provided and improved in 2019, when different approaches for the stock assessment of Atlantic and Mediterranean small tunas were carried out. Catch-based assessment models (Depletion Based Stock Reduction Analysis – DBSRA – and Simple Stock Synthesis – SSS) and Length based models (Length-based Spawning potential ratio – LSPR and Length-based integrated mixed effects model – LIME) were applied for 10 and 6 stocks, respectively. Also, the integrated assessment LIME, which used catch and length data, was applied for 6 small tuna stocks. Only LTA in the Southeast and WAH in the North West would show signs of overfishing for most of the models applied, deserving special attention in the future (**SMT-Table 3**).

Catch data are still incomplete for some species, regions and fleets, hampering the use of catch-based methods. At the moment, length-based methods show a more promising applicability for small tunas, although representative length distributions are still limited for some stocks. The use of length-based methods depends on how representative is the length data distribution by stock, since the size data available in T2SZ comes from different fleets with different gear selectivity. To deal with this issue, the Group recommended using length-data from all gears combined in order to get a better representation of the length distribution of the population, assigning equal weight to each fishing gear. It is important for all CPCs to report size data from all gears in order to get a representation of the length distribution of the entire population. Other length data, ideally from fishery independent surveys, could complement this information and improve the assessments.

A data-limited Management Strategy Evaluation (MSE) was also performed as preliminary exercise for WAH in the Northwest only. The MSE pointed out that management procedures based on catch-based methods are the most acceptable with respect a variety of performance metrics, while simulations for the length-based and fishing effort control methods did not present as satisfactory results (**SMT-Table 4**). The results from this initial exercise must be interpreted with caution because of considerable uncertainty in the parametrization of the operating model, which might strongly influence the performance of management procedures (MP)s.

The Group noted that PSA, Length-based model and, mainly MSE are good options in a data limited framework and that these approaches should be applied for the stocks which the assessment was not carried out yet and improve those already conducted when better data is available.

SMT-5. Outlook

There is no projection made by the Committee.

Additional work is being carried out under the SMTYP to address knowledge gaps as regards size data, stock identification and biological parameters, which are necessary for their assessment.

The Committee notes that the Atlantic Ocean Tropical Tuna Tagging Programme adopted by ICCAT was successfully tagging LTA, but more WAH should be tagged given that only one individual was recovered. The Committee also notes the need for an increase in the collection of information on recaptures of tagged fish by enhancement awareness campaigns, focusing on artisanal fisheries, particularly gillnet, small purse seine, longline and handline.

SMT-6. Effect of current regulations

There are no ICCAT regulations in effect for small tunas. Several regional and national regulations are in place.

SMT-7. Management recommendations

The provision of robust management advice by the SCRS relies on accurate reporting of Task 1 and 2 data and life history parameters. However, due to the nature of small tuna fisheries (i.e., multi-gear, multi-species, artisanal fisheries, etc.), information on fisheries data is difficult to collect, however proper monitoring programs should be implemented by the CPCs. Therefore, although the Group has improved in applying a range of Data-limited models, the robustness still needs to be evaluated before they can be used to provide management advice to the Commission. Also, although the Group recognize that the use of Data-Limit models are important for small tunas as the first step for stock assessment, given the importance of some of species in terms of catches, more robust methods, such as those used for data rich species, should be applied in a near future, when more complete data are available.

SMT-Table 1. Estimated catches (t) of small tuna species by area, gear, and flag.

					1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
BLF	TOTAL	ATL			2719	4051	4488	3258	3395	3203	2483	4034	4756	1303	1926	1031	1937	1927	1669	1442	1837	2083	2849	2134	1152	1306	1920	1368	1557	1472	2653	2859	4838	7529
	Landings			All gears	2719	4051	4488	3258	3395	3203	2483	4034	4756	1303	1926	1031	1937	1927	1669	1442	1837	2083	2849	2134	1152	1306	1920	1368	1557	1472	2653	2859	4838	7529
	Discards				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Landings		CP	Angola	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
				Brazil	38	153	649	410	55	55	38	149	1669	1	110	91	242	233	266	10	9	46	124	110	299	325	228	192	392	410	820	1691	2273	5345
				Canada	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				Curaçao	60	50	45	45	45	45	45	45	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
				EU-France	1330	1370	1040	1040	1040	1040	1040	1040	1040	0	0	0	0	0	0	0	32	19	26	0	14	12	14	14	6	28	15	17	30	35
				Grenada	189	123	164	126	233	94	164	223	255	335	268	306	371	291	290	291	291	291	291	291	0	0	0	0	0	94	73	0	36	40
				Mexico	0	0	0	0	0	0	0	12	0	10	9	10	10	12	6	7	6	9	5	4	4	4	5	4	4	3	3	2	3	3
				St Vincent and Grenadines	19	20	18	22	17	15	23	24	24	0	0	0	0	0	0	0	0	0	0	11	0	0	0	5	0	9	6	0	0	3
				Trinidad and Tobago	0	0	0	0	0	0	0	0	0	5	5	5	5	5	5	5	5	5	5	5	5	0	0	5	5	5	5	5	5	5
				UK-Bermuda	7	4	5	4	6	6	5	4	5	9	4	5	8	7	6	7	9	8	11	11	15	20	17	17	16	10	7	12	9	9
				UK-British Virgin Islands	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	**0**
				UK-Turks and Caicos	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
				USA	492	582	447	547	707	617	326	474	334	414	675	225	831	422	649	619	911	967	1919	1326	585	761	1265	946	1074	756	1628	1054	2403	2027
				Venezuela	21	624	758	498	1034	1192	696	1902	1211	319	732	225	237	777	231	293	331	473	237	191	88	81	197	33	42	4	2	5	3	2
			NCO	Cuba	223	156	287	287	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
				Dominica	19	30	0	0	79	83	54	78	42	20	38	47	29	37	45	41	37	39	37	39	24	34	34	17	24	8	0	0	0	
				Dominican Republic	239	892	892	231	158	18	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
				Jamaica	0	0	148	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
				Saint Kitts and Nevis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
				Sta Lucia	82	47	35	40	100	41	45	108	96	169	96	126	182	151	179	165	203	229	192	147	104	80	156	119	0	127	84	74	75	60
	Discards		CP	Mexico	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BLT	TOTAL				5300	4301	5909	3070	2309	2646	3912	5796	6041	3794	6223	4231	4233	5617	6825	5557	7952	9484	6234	7653	3916	5571	5720	3348	4083	3432	3530	3683	5018	4469
		ATL			100	0	0	0	28	263	902	1236	626	353	401	719	889	602	334	484	746	507	515	1158	367	755	467	232	228	215	184	209	40	126
		MED			5200	4301	5909	3070	2281	2383	3010	4559	5416	3441	5823	3513	3344	5015	6491	5072	7206	8977	5719	6494	3549	4816	5253	3116	3855	3218	3347	3475	4978	4343
	Landings	ATL		All gears	100	0	0	0	28	263	902	1236	626	353	401	719	889	602	334	484	746	507	515	1158	367	730	467	223	216	215	184	208	40	126
		MED			5200	4301	5909	3070	2281	2383	3010	4559	5416	3441	5823	3513	3344	5015	6491	5072	7206	8977	5719	6494	3549	4816	5253	3116	3855	3218	3347	3474	4978	4343
	Discards	ATL			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	9	12	0	0	0	0	
		MED			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
	Landings	ATL	CP	Angola	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
				Brazil	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	94	406	0	133	131	34	72	0	0	0	0	**0**
				Côte d'Ivoire	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	222	0	1	0	0	20	0	0	0	**0**
				EU-España	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	0	1	0	14	50	0	5	5	0	1	0	0	**0**
				EU-France	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
				EU-Germany	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	121	14	0	0	0	0	0	3
				EU-Lithuania	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	76	0	6	14	27
				EU-Netherlands	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	**0**
				EU-Portugal	0	0	0	0	28	263	494	208	166	231	299	580	867	602	311	436	654	387	55	38	0	0	0	0	0	64	29	130	7	55
				Liberia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	8	
				Mauritania	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
				Russian Federation	100	0	0	0	0	0	408	1028	460	122	102	139	22	0	23	48	67	119	366	703	352	345	336	62	125	75	134	64	19	32
				Venezuela	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	**0**
			NCO	Sta Lucia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		MED	CP	Algeria	306	230	237	179	299	173	225	230	481	0	391	547	586	477	1134	806	970	1119	1236	577	1025	1984	1592	231	799	905	732	1802	3229	2251
				EU-Croatia	22	28	26	26	26	26	0	0	0	0	0	0	0	0	0	0	8	13	9	10	12	15	15	25	37	27	15	17	54	51
				EU-España	1124	1472	2296	604	487	669	1024	861	493	495	1009	845	1101	3083	3389	726	3787	3227	1620	2654	735	1191	1081	2170	774	1026	986	511	266	981
				EU-France	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0
				EU-Greece	1400	1400	1426	1426	0	0	196	125	120	246	226	180	274	157	620	586	169	129	118	155	108	311	207	181	204	513	262	139	273	309
				EU-Italy	531	531	229	229	229	462	462	462	2452	1463	1819	866	143	158	342	732	574	653	613	892	0	0	1717	0	966	25	6	16	15	14
				EU-Malta	1	2	3	6	1	3	1	1	0	2	8	4	11	14	12	7	11	23	3	85	14	14	11	9	12	12	7	1	28	2
				Maroc	1726	621	1673	562	1140	682	763	256	621	246	326	50	199	35	83	336	525	237	194	237	171	811	200	0	442	50	96	91	52	43
				Syria	0	0	0	0	0	0	0	0	0	0	0	0	0	99	75	87	81	84	83	83	0	0	0	0	0	0	0	0	0	
				Tunisia	13	14	13	32	93	45	15	2300	932	989	1760	0	0	0	0	0	0	940	935	938	920	13	23	26	136	67	91	139	147	162
				Türkiye	77	0	0	0	0	316	316	316	316	0	284	1020	1031	993	836	1873	1081	2552	907	863	562	476	407	474	367	462	1070	737	809	482
			NCO	Palestine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	130	81	21	104	48
				Serbia & Montenegro	0	2	6	6	6	7	8	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Discards	ATL	CP	EU-France	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	9	12	0	0	0	0	**0**
		MED		EU-Croatia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	**0**
BON	TOTAL				21719	21219	25134	24417	45253	37312	27151	27637	23925	14424	15832	78767	41951	13628	16814	23710	28921	36783	48280	24847	27993	15706	54868	22757	46584	29676	44619	28546	92230	39912
		ATL			6037	6030	7939	10340	15523	9143	5179	5400	8208	3307	4584	4391	9648	6381	6772	13691	16338	22341	8959	6482	4640	6712	10930	10939	11093	23931	17458	21817	36026	32538
		MED			15682	15189	17195	14078	29730	28170	21972	22227	15717	11117	11248	74376	32303	9247	10042	10019	12584	14442	39321	18365	23352	8993	43938	11798	35491	5745	27160	6728	56204	7374
	Landings	ATL		All gears	6037	6030	7939	10340	15523	9143	5179	5400	8208	3307	4584	4391	9648	6381	6772	13691	16338	22341	8959	6482	4640	6712	10930	10959	11093	23929	17458	21817	36021	32531
		MED			15682	15189	17195	14078	29730	28170	21972	22227	15717	11117	11248	74376	32303	9247	10042	10019	12584	14442	39321	18365	23352	8993	43938	11798	35491	5745	27160	6728	56204	7374
	Discards	ATL			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	5	7
		MED			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Landings	ATL	CP	Angola	20	9	39	32	0	2	118	118	118	0	0	138	0	931	0	1962	1997	131	267	1134	2	3	3	2	0	0	5	5	0	11
				Barbados	0	0	0	0	0	0	0	1	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
				Belize	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	10	0	0	0	0	**0**
				Brazil	142	137	0	0	0	0	0	0	0	0	0	0	99	0	0	0	0	171	0	38	0	1	2	1	23	15	0	0	0	5
				Curaçao	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	539	539	539	539	0	0	0	0	0	0	0	0	**0**
				Côte d'Ivoire	0	0	0	0	0	0	0	0	0	0	3	0	3	0	3	13	755	3	0	26	3	16	6	3510	42	2725	1757	6244	687	590
				EU-Denmark	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				EU-España	3	2	2	1	0	12	12	10	5	23	9	2	15	14	13	36	45	57	7	44	28	10	31	18	16	20	3	8	10	5
				EU-France	990	990	610	610	610	24	32	0	18	0	0	0	0	0	122	59	25	208	241	102	245	288	333	422	290	195	115	62	60	43	56
				EU-Germany	0	0	714	0	0	0	0	0	38	0	0	0	0	0	0	0	0	0	0	0	6	0	4	89	14	0	13	1	25	25
				EU-Ireland	0	0	0	0	0	0	0	0	0	48	0	0	0	0	0	56	125	91	108	100	0	0	0	0	0	0	0	0	0	0	**0**
				EU-Latvia	3	19	301	887	318	0	416	396	639	0	0	0	0	0	0	0	1019	2231	34	48	29	0	0	0	0	6604	518	522	1414	712
				EU-Lithuania	0	0	0	0	0	0	0	0	793	0	0	0	0	0	0	0	0	0	0	0	0	0	0	78	686	385	596	138	903	313
				EU-Netherlands	0	0	0	0	0	0	0	0	0	0	0	0	0	0	344	539	539	0	2047	104	1075	54	11	124	79	39	91	71	82	141	72
				EU-Poland	0	0	225	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
				EU-Portugal	56	78	83	49	98	98	162	47	61	40	50	38	318	439	212	124	476	461	321	184	22	25	570	368	257	382	169	240	140	757
				Gabon	0	0	0	0	0	0	0	0	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
				Gambia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	724	724
				Great Britain	0	0	287	0	0	0	0	0	0	0	0	35	0	0	0	30	71	113	4	0	0	0	0	0	0	0	0	0	0	0	0
				Grenada	0	0	24	6	14	16	7	10	10	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	1	0	1	1	0	**0**
				Guinea Ecuatorial	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4	0	39	32	0	3	4	5	6	4	35
				Maroc	584	699	894	1259	1557	1390	2163	1700	2019	928	989	1411	1655	1053	1419	2523	109	145	235	89	90	174	850	1417	4081	5679	5470	4516	10512	19333
				Mauritania	0	0	0	0	0	0	0	0	0	0	0	0	1303	839	1850	2384	6890	9463	3193	514	1052	2543	4951	1546	1801	1927	5008	5386	10843	5619
				Mexico	674	1144	1312	1312	1632	1861	1293	1113	1032	1238	1066	634	1303	1188	1113	1063	1046	1080	1447	1534	1115	1110	1188	1361	1440	1258	954	693	430	692
				Norway	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	**0**
				Panama	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
				Russian Federation	0	0	0	0	4960	0	0	574	1441	461	16	79	316	259	52	368	1042	2293	848	125	416	308	850	666	573	617	1281	908	6969	732

					1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
				S Tomé e Príncipe	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	145	147	149	153	158	162	267	207	211	2	0	0	0	0	0
				Senegal	814	732	1012	1289	2213	2558	286	545	621	195	183	484	2304	1020	1380	4029	1677	2876	1453	514	1217	1711	1581	1226	1696	3982	1380	2915	2975	2460
				Sierra Leone	0	0	0	0	0	0	11	245	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				South Africa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				St Vincent and Grenadines	0	0	0	0	0	0	0	0	0	15	18	0	16	23	27	15	6	20	0	0	0	0	0	0	0	0	0	0	0	0	0
				Trinidad and Tobago	703	169	266	220	30	117	117	56	452	108	280	81	7	16	38	68	68	14	9	16	16	0	0	16	16	16	16	16	16	16	16
				UK-British Virgin Islands	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2	2
				UK-Turks and Caicos	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				USA	128	116	156	182	76	83	142	120	139	44	70	68	40	97	47	50	47	189	94	73	101	96	61	62	197	107	140	66	176	168
				Venezuela	1661	1651	1339	1379	1659	1602	2	0	61	13	0	16	18	19	12	38	10	21	7	4	9	0	0	0	0	0	0	0	0	0	0
			NCC	Chinese Taipei	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	29	40	20	12	0	0	0	0	0	0
			NCO	Argentina	4	138	108	130	12	68	19	235	1	129	269	110	0	0	0	220	59	6	33	0	0	0	0	0	0	0	0	0	0	
				Cuba	0	0	0	0	230	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
				Dominica	0	0	0	0	0	0	0	0	0	0	0	6	16	16	9	4	0	0	0	0	1	2	7	1	0	2	6	0	0	
				Jamaica	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
				Saint Kitts and Nevis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	2	0	1	0	0	
				Sta Lucia	1	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				Togo	254	145	197	197	197	197	0	0	0	1583	1215	2298	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
				Ukraine	0	0	342	2786	1918	1114	399	231	656	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		MED	CP	Albania	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				Algeria	418	506	277	357	511	475	405	350	597	0	609	575	684	910	1042	976	1009	355	353	614	504	716	452	593	811	302	369	485	1216	841
				EU-Bulgaria	0	25	33	16	51	20	35	35	35	0	0	0	0	0	0	0	16	8	96	6	5	8	68	13	23	4	32	1	45	1
				EU-Croatia	70	0	0	0	25	120	0	0	0	0	0	0	0	0	0	0	59	41	31	56	56	34	20	22	28	42	31	24	13	22
				EU-Cyprus	0	0	0	0	0	0	14	0	10	10	6	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				EU-España	344	632	690	628	333	433	342	349	461	544	272	215	429	531	458	247	518	574	442	881	585	519	358	314	321	483	330	253	1967	317
				EU-France	0	0	0	0	0	0	0	27	0	0	0	0	15	34	20	23	13	12	30	25	103	60	217	52	86	57	45	51	60	
				EU-Greece	1581	2116	1752	1559	945	2135	1914	1550	1420	1538	1321	1390	845	1123	587	476	531	798	733	960	678	691	700	399	641	422	342	269	659	213
				EU-Italy	1828	1512	2233	2233	2233	4139	4159	4159	4579	2091	2009	1356	552	610	1323	1131	964	1197	472	1245	1053	750	697	340	605	616	570	499	480	456
				EU-Malta	0	0	2	7	2	2	1	0	1	0	1	1	11	7	7	3	6	1	3	2	0	2	3	0	2	1	1	0	2	0
				Egypt	648	697	985	725	724	1442	1442	1128	1128	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				Libya	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	705	780	82	75	71	65	45	35	29
				Maroc	93	37	67	45	39	120	115	5	61	85	78	38	89	87	142	131	57	12	1	0	8	26	50	46	28	60	8	13	11	2
				Tunisie	305	413	560	611	855	1150	1528	1183	1112	848	1251	0	0	0	0	0	0	1425	1415	1413	1407	867	1290	1993	1986	2079	2612	2498	1832	3330
				Turkiye	10093	8944	10284	7810	24000	17900	12000	13460	6286	6000	5701	70797	29590	5965	6448	7036	9401	10019	35764	13158	19032	4573	39460	7578	30920	1578	22743	2595	49892	2083
			NCO	NEI (MED)	300	300	300	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
				Serbia & Montenegro	2	6	10	12	12	14	17	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	Discards	ATL	CP	EU-France	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
				EU-Netherlands	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5
				Gabon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
				UK-British Virgin Islands	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			NCC	Chinese Taipei	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			MED	CP	EU-Croatia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				EU-España	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				EU-France	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BOP	TOTAL				791	703	2196	481	177	868	1207	1012	923	736	581	217	32	1047	533	449	287	377	681	662	952	2239	805	560	126	171	105	220	146	262
		ATL			615	588	2064	254	47	651	1062	858	786	713	573	215	32	875	426	442	273	335	657	641	939	1161	743	522	104	119	63	193	99	124
		MED			176	115	132	227	130	217	145	154	137	23	8	2	0	172	107	6	14	42	24	21	13	1078	62	38	22	52	43	27	47	138
	Landings	ATL		All gears	615	588	2064	254	47	651	1062	858	786	713	573	215	32	875	426	442	273	335	657	641	939	1161	743	522	104	119	63	193	99	124
		MED			176	115	132	227	130	217	145	154	137	23	8	2	0	172	107	6	14	42	24	21	13	1078	62	38	22	52	43	27	47	138
		ATL	CP	EU-France	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				EU-Portugal	0	0	0	0	0	0	0	0	0	0	0	5	3	1	2	11	21	7	1	2	0	0	0	0	0	1	1	1	1	1
				Maroc	598	524	2003	246	28	626	1048	830	780	706	503	132	0	634	391	273	199	213	642	555	867	1113	665	450	38	53	62	169	91	107
				Senegal	16	63	60	5	18	24	14	28	6	7	70	78	29	240	33	138	53	115	14	84	72	48	78	72	66	66	0	23	8	15
			NCO	Benin	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
			MED	CP	Algeria	153	92	119	224	128	216	135	145	128	0	0	0	0	0	0	0	0	9	7	3	3	2	2	1	0	1	0	0	4	5
				EU-France	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
				EU-Portugal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
				Maroc	23	23	13	3	2	1	10	9	9	20	7	1	0	172	107	6	14	30	15	16	8	8	33	3	8	6	35	11	1	
				Tunisie	0	0	0	0	0	0	0	0	0	3	1	0	0	0	0	0	0	2	2	2	2	1068	27	33	14	45	2	17	43	133
BRS	TOTAL	ATL			7161	7006	8435	8004	7923	3754	4785	4553	7750	5137	3410	3712	3387	2253	3305	2681	1590	1055	613	853	698	389	1124	1032	1010	1118	773	707	991	1013
	Landings			All gears	7161	7006	8435	8004	7923	3754	4785	4553	7750	5137	3410	3712	3387	2253	3305	2681	1590	1055	613	853	698	389	1124	1032	1010	1118	773	707	991	1013
			CP	Angola	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
				Brazil	1149	1308	3047	2125	1516	1516	988	251	3071	2881	814	471	1432	563	1521	1042	0	3	0	6	2	1	1	1	1	135	0	0	3	0
				EU-France	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				Grenada	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				Trinidad and Tobago	2130	1816	1568	1699	2130	1328	1722	2207	2472	1867	2103	2720	1778	1414	1472	1498	1498	936	489	695	695	0	695	695	695	695	695	695	695	695	695
				Venezuela	3882	3882	3609	3609	3651	1766	1766	1766	1766	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			NCC	Chinese Taipei	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	1	29	29	0	0	0	0	0	0
				Guyana	0	0	211	571	625	1145	308	329	441	389	494	521	377	277	312	141	92	116	124	151	0	387	399	308	313	0	0	0	0	0	0
				Suriname	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	288	78	12	293	310
CER	TOTAL				490	429	280	251	251	1	4	6	1	2	1	1	1	0	0	0	0	2	0	0	1	1	0	1	1	1	0	0	0	0
	Landings			All gears	490	429	280	251	251	1	4	6	1	2	1	1	1	0	0	0	0	2	0	0	1	1	0	1	1	1	0	0	0	0
			CP	EU-France	400	400	250	250	250	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				Grenada	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				St Vincent and Grenadines	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
			NCO	Dominica	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
				Dominican Republic	90	29	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
				Jamaica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
				Sta Lucia	0	0	0	0	0	0	3	5	1	2	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0
FRI	TOTAL				13332	11816	13071	13980	14332	10589	8680	10151	5742	6096	8832	6154	8429	9789	7861	12384	14215	15471	18287	17597	17149	17074	21814	15703	17755	18397	18119	20669	18542	16217
	Landings			All gears	5300	5617	6631	9004	9531	4992	3054	4506	3893	3095	5086	2933	5918	6019	5296	8237	8633	10515	9735	11829	10941	11088	13263	10431	11410	12267	13235	16482	13971	12415
	Landings(FP)				8031	6200	7240	4976	4801	3597	3627	5646	1849	3001	3746	3221	2511	3770	2565	4147	5382	4956	8552	5768	6208	5845	8551	5194	6265	6103	4881	4178	4557	3795
	Discards				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	141	0	78	60	27	3	9	14	7
	Landings		CP	Angola	6	21	29	12	31	2	38	38	38	0	0	0	0	95	0	63	19	59	39	22	47	2	1	0	0	0	0	0	0	1
				Belize	0	0	0	0	33	0	115	87	0	0	0	0	0	0	0	0	0	0	0	0	36	266	824	586	552	655	585	144	87	281
				Brazil	906	558	527	215	162	166	106	98	1117	860	414	532	603	202	149	313	204	347	259	227	293	308	271	445	282	109	272	100	69	151
				Cape Verde	86	13	6	22	191	134	81	171	278	264	344	300	318	378	574	1312	711	835	1811	2461	5418	3556	2324	1795	4988	2256	2282	3649	1276	1302
				Curaçao	0	0	590	1137	1030	1139	1134	1006	713	307	497	0	150	106	485	364	0	235	238	481	1456	1151	1124	1376	1414	750	1071	1263	249	163
				Côte d'Ivoire	0	0	0	0	3	0	1	821	2	31	1356	4	354	541	14	813	161	297	38	2837	261	141	311	81	2	89	178	105	2	38
				EU-España	297	386	947	581	570	23	17	722	438	635	34	166	73	278	631	1094	950	877	1708	1234	1200	1682	2537	1608	1033	1129	926	1275	1381	1337
				EU-France	105	126	161	159	146	0	91	128	95	160	168	47	6	98	24	24	91	147	249	233	147	247	410	773	715	637	296	319	726	319
				EU-Germany	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8	8
				EU-Latvia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	169	528	0	0	3529	272	253	163	422
				EU-Netherlands	0	0	0	0	0	0	0	0	0	0	0	0	0	9	150	90	0	164	5	85	119	6	90	45	233	13	6	0	8	88
				EU-Portugal	0	0	0	1	31	5	9	28	5	4	7	212	3	250	13	0	0	0	0	0	0	1	2	3	1	3	0	1	1	1

					1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
			El Salvador		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44	0	960	0	0	0
			Gabon		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0
			Gambia		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2254	2254	
			Ghana		0	0	0	0	33	221	118	39	31	0	3	0	2577	2134	1496	2786	3604	2295	2469	2382	0	0	0	0	0	0	0	0	0	0
			Great Britain		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	26	0	0	0	0	0	0	0	0	0	0	0	0
			Grenada		0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			Guatemala		0	0	0	0	0	0	0	0	0	0	0	0	0	98	74	81	78	48	63	0	26	0	71	63	311	249	155	178	0	0
			Guinea Ecuatorial		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	1	3	2	2	1	505	
			Guinée Rep		0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	96	94	332	503	236	0	0	0	0	0	0	0	0	0
			Liberia		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	1	0	0
			Maroc		190	707	716	2717	2315	764	629	486	591	236	696	227	52	135	179	9	19	862	554	55	21	90	125	200	3	93	492	209	166	518
			Mauritania		0	0	0	0	0	0	0	0	0	0	0	0	269	169	377	492	1420	1953	661	101	211	806	996	311	362	394	1025	1005	2223	1018
			Panama		341	328	240	91	0	0	0	0	0	0	394	975	970	1349	411	439	425	339	463	504	905	292	1356	1572	707	743	941	849	0	0
			Russian Federation		405	456	46	500	2433	477	12	25	308	56	56	63	6	6	12	113	270	912	113	217	139	249	545	389	430	305	753	153	115	136
			S Tomé e Príncipe		37	48	79	223	197	209	200	200	200	200	234	215	290	0	275	149	153	298	307	315	324	636	536	467	14	482	521	546	461	981
			Senegal		319	309	0	101	0	7	0	4	0	13	288	151	83	119	383	15	217	201	341	16	22	1407	1133	391	249	807	2498	6337	4774	2860
			St Vincent and Grenadines		0	0	0	17	65	0	0	208	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			Trinidad and Tobago		0	56	199	368	127	138	245	0	0	0	414	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			UK-Bermuda		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	0
			Venezuela		2609	2601	3083	2839	2164	1631	210	444	34	113	182	42	165	52	48	54	215	508	85	150	71	64	70	115	67	26	0	92	6	34
		NCC	Chinese Taipei		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	7	14	8	11	0	0	0	0	0	0
		NCO	MEI(ETRO)		0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
			Sta Lucia		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
			Ukraine		0	0	0	0	0	36	48	0	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Landings(FP)	CP	Belize		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	154	71	86	78	107	0	0	0	0	0	0	0	0	0
			Cape Verde		0	0	0	0	0	0	0	0	0	0	0	144	84	200	189	188	428	130	271	256	268	745	537	164	238	183	191	0	0	0
			Curaçao		0	0	0	0	0	0	0	0	0	0	0	29	55	29	36	225	233	139	214	149	224	0	0	0	0	0	0	326	0	0
			Côte d'Ivoire		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	177	81	236	0	0	0	0	0	0	0	0	0
			EU-España		3990	3903	4495	3449	3154	3762	3385	3580	1074	1942	2450	1327	1423	2585	1685	2636	3117	3023	5770	2792	3289	1533	1753	1351	1069	1192	900	1134	1522	1097
			EU-France		4041	2297	2745	1527	1648	1836	2242	2666	772	1059	1296	1138	644	612	222	684	1214	815	1183	1466	1486	855	1046	468	886	864	731	1301	1227	1052
			El Salvador		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	435	793	895	1113	1071	0	964	355	847
			Guatemala		0	0	0	0	0	0	0	0	0	0	0	142	75	69	99	53	103	25	150	42	65	0	0	0	0	0	0	131	804	449
			Guinée Rep		0	0	0	0	0	0	0	0	0	0	0	168	0	24	37	0	174	518	542	672	441	0	0	0	0	0	0	0	0	0
			Panama		0	0	0	0	0	0	0	0	0	0	0	274	230	251	297	261	157	230	158	234	92	0	0	0	0	0	0	303	648	349
		NCO	Mixed flags (EU tropical)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2277	4422	2317	2979	2793	3060	0	0	
	Discards	CP	EU-France		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	141	0	78	60	26	3	9	13	6
			EU-Netherlands		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
			Gabon		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
KOM	TOTAL				14777	14930	17782	19815	16394	17717	16342	13408	17238	13863	12830	11766	8252	17926	7344	7826	11697	10452	10151	9712	11039	9913	10838	11257	11844	10058	14660	8788	8731	17667
	Landings		All gears		14777	14930	17782	19815	16394	17717	16342	13408	17238	13863	12830	11766	8252	17926	7344	7826	11697	10452	10151	9712	11039	9913	10838	11257	11844	10058	14660	8788	8731	17667
	Discards				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Landings	CP	Angola		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	139	914	0	0	0	0	0	0	0	0	10157
			Brasil		1365	1328	2890	2398	3595	3595	2344	1251	2316	3311	247	202	316	33	0	0	1	1	0	0	0	0	0	0	0	190	305	550	56	59
			Grenada		0	0	2	4	28	14	9	4	5	0	0	0	0	0	0	0	0	0	0	0	0	13	4	5	4	10	11	2	1	0
			Korea Rep		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8	0	0	0	0	0
			Mexico		3097	3214	4661	4661	3583	4121	3688	4200	4453	4369	4564	3447	4201	3526	3113	3186	3040	3130	3090	3335	3019	3281	3130	3233	3825	3231	2305	1821	1003	1776
			Namibia		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30
			St Vincent and Grenadines		0	0	0	0	0	137	0	0	0	0	0	67	0	0	0	7	9	0	0	0	0	0	0	0	0	0	0	0	0	0
			Trinidad and Tobago		0	471	1029	875	746	447	432	410	1457	802	578	747	661	567	1043	1001	1001	720	393	495	496	1	494	494	494	494	494	494	494	495
			UK-Bermuda		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			UK-British Virgin Islands		0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	4	1	
			USA		7831	7360	7058	8720	7373	6453	6780	6603	6061	6991	7129	7123	2837	13482	3013	3541	7584	6523	6573	5641	6607	6257	6891	7325	7368	5910	10809	5618	6812	4990
			Venezuela		2484	2558	2141	2139	340	2424	2424	2424	2424	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		NCC	Chinese Taipei		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	2	2	2	4	5	0	1	0	1	0	0
			Guyana		0	0	0	270	440	398	214	239	267	390	312	245	168	326	174	91	59	75	90	99	0	338	314	192	143	1	0	0	0	0
			Suriname		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	212	534	301	330	158
		NCO	Dominica		0	0	0	0	0	36	35	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
			Dominican Republic		0	0	0	589	288	230	226	226	226	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
			Jamaica		0	0	0	155	0	0	44	48	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	
			Saint Kitts and Nevis		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
			Sta Lucia		0	0	0	1	4	0	0	0	9	1	1	0	1	1	1	2	0	0	1	3	4	1	1	0	0	0	0	0	1	1
	Discards	NCC	Chinese Taipei		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LTA	TOTAL				14399	12276	11569	14405	15719	12283	15319	16943	16723	17010	16357	11915	10128	18384	14213	17127	23080	25347	20865	21643	14224	24030	28885	29485	27020	25536	22340	18683	26842	24576
		ATL			13202	10381	9453	12804	12804	9407	11830	13955	14080	16327	14918	10873	8320	16472	11954	14170	20910	21679	16679	17011	10619	17456	19097	14338	19134	15793	14994	13390	17731	14766
		MED			1197	1894	2116	1601	2914	2876	3489	2988	2643	684	1439	1042	1808	1911	2259	2957	2170	3668	4186	4633	3605	6374	9788	15147	7886	9743	7346	5293	9111	9810
	Landings	ATL	All gears		10906	9655	8779	11910	11732	8672	10258	11566	13476	14961	13552	10172	7417	13962	10137	12137	17433	17511	13060	13260	7968	10965	12248	10753	15804	11984	12026	11508	16114	12315
		MED			1197	1894	2116	1601	2914	2876	3489	2988	2643	684	1439	1042	1808	1911	2259	2957	2170	3668	4186	4633	3605	6374	9788	15147	7886	9743	7346	5293	9110	9809
	Landings(FP)	ATL			3296	726	675	894	1073	733	1571	2389	604	1366	1566	702	903	2510	1817	2033	3477	4168	3619	3751	2651	6287	6849	3478	3266	3740	2967	1848	1608	2437
	Discards				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	204	0	107	64	69	1	35	8	15
		MED			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	Landings	ATL	CP	Angola	121	117	235	75	406	118	132	132	132	0	0	2	0	436	0	128	1759	3455	1905	1085	10	6	1	4	3	0	6	7	0	0
			Brasil		1225	1059	834	507	920	930	615	615	615	0	320	280	0	0	0	0	0	22	581	0	0	0	0	0	0	34	0	113	38	1047	398
			Cape Verde		23	72	63	86	110	776	491	178	262	143	137	81	123	292	250	357	183	102	131	131	131	131	218	113	105	59	82	133	51	23
			Curaçao		0	0	0	0	0	0	0	0	5	9	0	0	0	0	0	0	38	38	76	57	0	0	0	0	0	4	2	105	20	5
			Côte d'Ivoire		251	253	250	155	136	9	123	1	0	0	153	287	427	2159	1791	1446	1631	20	1062	1433	152	102	111	1881	7583	2441	1815	1917	1293	742
			EU-España		0	10	55	27	110	6	2	22	8	1	489	50	16	0	38	35	136	168	71	52	112	381	477	185	148	89	10	11	255	330
			EU-France		54	59	22	215	21	698	631	610	613	14	10	27	12	0	1	50	35	5	30	27	6	36	73	359	268	263	156	492	962	471
			EU-Lithuania		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			EU-Netherlands		0	0	0	0	0	0	0	0	0	0	0	0	0	14	69	8	0	18	1	9	0	0	0	0	0	0	0	0	0	0
			EU-Portugal		72	72	218	320	171	14	50	0	2	16	19	21	24	43	10	6	5	14	4	18	0	0	7	32	35	43	3	6	23	43
			El Salvador		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
			Gabon		0	0	182	0	18	159	301	213	57	173	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			Ghana		994	513	113	2025	359	306	707	730	4768	8541	7060	5738	783	1335	745	1692	1465	1001	1274	1138	0	0	0	0	0	0	0	0	0	0
			Great Britain		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	15	23	38	0	0	0	0	0	0	0	0	0	0	0
			Grenada		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0
			Guatemala		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120	15	45	88	38	50	0	0
			Guinea Ecuatorial		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	10	11	10	11	1	1
			Guinée Rep		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	631	907
			Liberia		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	673	256	176	101	78	151	212	2	70	1	19	0	43
			Maroc		43	230	588	195	189	67	101	87	308	76	91	33	0	40	2	63	5	57	10	11	3	0	11	12	0	0	0	0	0	0
			Mauritania		0	0	0	0	0	0	0	0	0	0	0	0	670	423	943	1222	3549	4878	1634	252	529	1287	2478	774	901	984	2558	2462	5548	2479
			Panama		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	10	0	0
			Russian Federation		189	96	49	0	88	0	0	0	74	13	0	0	0	0	0	0	268	11	208	399	255	136	547	433	698	478	1742	304	232	145
			S Tomé e Príncipe		40	43	40	50	39	37	33	33	33	33	178	102	179	0	103	188	193	198	203	209	214	182	122	249	11	87	6	71	35	74
			Senegal		4336	3613	1972	4174	4715	1607	3546	3176	2866	4394	3508	2699	3826	3885	5108	5683	6371	4910	2759	5912	3774	5065	4835	3841	3672	4757	3100	3718	791	3670
			South Africa		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

					1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
				St Vincent and Grenadines	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0	27	33	0	0	0
				Trinidad and Tobago	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				UK-Bermuda	6	6	7	6	5	4	2	1	5	4	5	7	5	5	4	3	4	5	6	3	3	4	2	1	1	2	3	5	1	3
				UK-St a Helena	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				USA	1142	1312	2230	2015	1546	1623	1209	1451	1366	1492	1382	765	1351	1401	963	1245	1772	1875	2797	2333	2661	3537	3019	2577	2286	2580	2346	2146	5225	2982
				Venezuela	2115	2115	1840	1840	2815	2247	2247	2247	2254	50	0	0	0	0	30	4	2	8	4	1	4	0	0	0	0	0	0	0	0	0
			HCC	Chinese Taipei	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	12	16	54	48	0	0	0	0	0	0
			HCO	Benin	60	58	58	196	83	69	69	69	69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
				Cuba	15	27	23	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
				Dominica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	
				MEI (ETRO)	20	0	0	0	0	0	0	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
				St a Lucia	0	0	0	2	2	2	0	1	10	1	0	0	1	0	0	0	0	0	0	1	0	2	0	1	0	1	0	0	0	0
		MED	CP	Algeria	459	552	554	448	384	562	494	407	140	0	150	116	107	96	142	119	131	98	6	157	341	204	260	444	299	242	233	195	792	312
				EU-Croatia	15	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	25	44	37	43	31	19	42	34	31	31	49	72
				EU-Cyprus	23	10	19	19	19	16	19	19	19	0	0	0	0	6	5	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				EU-España	0	15	18	9	15	0	8	82	32	0	41	262	116	202	212	86	299	488	441	235	300	456	384	486	289	640	493	413	578	456
				EU-France	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	42	0	0	0	1	0	0	0	4	7	9	12	20
				EU-Greece	0	0	0	0	0	0	195	125	132	0	0	112	69	72	183	148	165	301	276	363	289	271	301	299	489	635	955	408	644	554
				EU-Italy	0	0	0	0	0	0	0	0	16	24	38	34	203	224	486	1100	365	304	669	557	442	0	992	930	1032	1513	1204	803	767	1027
				EU-Malta	0	0	0	0	0	0	0	0	1	1	1	1	3	2	5	3	7	5	21	9	4	7	1	6	6	7	3	2	6	5
				Egypt	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	849	712	0	0	0	1003	0	0	0	0	0
				Libya	0	0	0	45	52	0	5	4	4	0	0	0	0	0	0	0	0	0	0	0	0	102	1100	48	80	65	55	30	25	22
				Maroc	0	1	0	1	14	8	0	0	3	1	0	9	0	331	19	24	1	0	0	0	0	0	3	0	0	0	0	0	0	0
				Syria	156	155	270	350	417	390	370	370	330	0	0	0	0	193	133	163	148	155	304	230	0	0	0	0	0	0	0	0	0	0
				Tunisia	204	696	824	333	1113	752	1455	1036	960	637	633	0	0	0	0	0	0	810	800	803	798	1165	6323	1434	4032	6152	4024	2940	3827	6551
				Türkiye	0	0	0	0	500	750	750	750	750	0	568	507	1230	785	1074	1309	1046	1437	1645	1386	682	326	184	480	617	450	341	463	410	789
			HCO	Israel	119	215	119	119	119	119	119	119	119	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
				MEI (MED)	200	200	200	200	200	200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
				Palestine	0	0	90	59	61	60	60	60	129	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
				Serbia & Montenegro	21	35	22	18	20	18	16	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	Landings(FP)	ATL	CP	Belize	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	223	51	238	144	133	0	0	0	0	0	0	0	0	0
				Cape Verde	0	0	0	0	0	0	0	0	0	0	0	45	76	265	214	189	262	266	179	438	178	850	458	128	146	132	109	0	0	0
				Curaçao	0	0	0	0	0	0	0	0	0	0	0	0	39	42	30	160	185	167	209	284	284	0	0	0	0	0	0	426	0	0
				Côte d'Ivoire	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	162	56	12	0	0	0	0	0	0	0	0	0	0
				EU-España	1127	454	284	353	295	194	751	1197	209	656	508	206	213	1253	944	1181	1320	2067	1105	732	1182	1968	1883	1244	781	1102	831	329	752	560
				EU-France	1169	272	391	540	777	541	621	1192	396	710	1038	367	205	262	122	241	901	1061	675	693	565	870	732	296	470	493	273	310	399	365
				El Salvador	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44	0	0	15	45	340
				Guatemala	0	0	0	0	0	0	0	0	0	0	0	35	178	92	118	17	121	43	126	145	64	0	0	0	0	0	171	213	489	
				Guinée Esp	0	0	0	0	0	0	0	0	0	0	0	15	0	21	2	0	358	260	666	1186	202	0	0	0	0	0	0	0	0	0
				Panama	0	0	0	0	0	0	0	0	0	0	0	35	191	577	368	228	106	250	259	72	30	0	0	0	0	0	396	200	683	
			HCO	Mixed flags (EU tropical)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2598	3774	1810	1825	2013	1753	0	0	
	Discards		CP	EU-France	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	204	0	107	64	69	1	35	8	15
				EU-Germany	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			HCC	Chinese Taipei	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		MED	CP	EU-Croatia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				EU-España	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
				EU-France	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MAW	TOTAL	ATL			1278	1953	2910	1475	1496	971	1321	881	1393	646	352	480	371	847	616	684	2384	1333	1128	3016	1460	1243	1489	1286	7066	1810	839	2823	1710	4518
	Landings			All gears	1278	1953	2910	1475	1496	971	1321	881	1393	646	352	480	371	847	616	684	2384	1333	1128	3016	1460	1243	1489	1286	7066	1804	839	2823	1710	4518
	Discards				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	
	Landings		CP	Angola	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	86	1630	249	221	1247	0	3	1	2	1	2	0	1	2	3
				Côte d'Ivoire	0	0	0	0	0	0	0	0	0	0	2	0	66	0	0	1	0	0	0	90	35	47	76	122	5827	601	305	392	312	186
				EU-Ireland	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
				EU-Lithuania	0	0	0	0	0	0	0	0	298	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				EU-Netherlands	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0
				Gabon	140	145	79	60	85	61	102	53	48	82	67	37	87	93	17	22	30	34	46	42	13	37	21	56	87	137	42	195	191	384
				Gambia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	724	724
				Mauritania	0	0	0	0	0	0	0	0	0	0	0	0	207	319	176	203	275	193	152	110	434	493	524	164	191	79	206	2042	381	2693
				Russian Federation	0	0	0	0	14	0	0	0	0	15	0	0	1	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0
				S Tomé e Príncipe	6	6	8	7	8	5	6	6	6	6	21	12	13	0	91	93	96	98	100	102	105	13	11	72	0	26	107	38	34	94
				Senegal	938	1614	2635	1046	878	700	987	617	794	532	262	431	196	435	329	278	331	749	610	1426	870	649	856	870	961	961	178	154	68	434
			HCO	Benin	194	188	188	362	511	205	205	205	205	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
				Ukraine	0	0	0	0	0	0	21	0	0	42	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Discards		CP	Gabon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0
SSM	TOTAL				14490	13697	16571	15403	8877	9837	8220	8383	9414	9793	8119	10472	6308	6118	5900	6199	11788	10916	10156	12684	7798	7741	8669	8332	4332	12651	16691	11763	11530	9572
	Landings			All gears	14490	13697	16571	15403	8877	9837	8220	8383	9414	9793	8119	10472	6308	6118	5900	6199	11788	10916	10156	12684	7798	7741	8669	8332	4332	12651	16691	11763	11530	9572
			CP	Angola	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2
				Belize	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
				EU-France	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	3	14	18	11	16	6	4	0	0	0	0	0
				EU-Portugal	0	0	0	0	0	0	0	0	0	0	0	1	26	16	0	2	20	7	2	0	0	0	1	0	0	0	0	0	0	0
				Gabon	0	0	0	0	0	0	0	0	263	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				Grenada	2	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0
				Mexico	8300	7673	11050	11050	5483	6431	4168	3701	4350	5242	3641	5723	3856	3955	4155	4251	4128	4026	3321	3581	3857	4077	3820	3701	4321	3870	2960	2157	1535	2220
				UK-British Virgin Islands	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				USA	4380	3363	2866	3509	2968	3282	3893	4524	4613	4552	4477	4747	2425	2147	1746	1946	7639	6871	6829	9089	3922	3632	4825	4611	6	8778	13722	9605	9994	7330
			NCC	Chinese Taipei	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	3	11	0	0	0	0	0	0
			HCO	Colombia	69	69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
				Cuba	409	548	613	613	236	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
				Dominica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
				Dominican Republic	1330	2042	2042	231	191	125	158	158	158	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
				Jamaica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
				Saint Kitts and Nevis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
				St a Lucia	0	0	0	0	0	0	0	1	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WAH	TOTAL				2143	2408	2516	3104	2497	2972	2035	2318	2226	2067	2613	2467	1629	2581	2176	2354	2381	2844	3729	5215	3526	2554	17320	6881	6482	4894	8542	3218	4292	4196
	Landings			All gears	2143	2408	2516	3104	2497	2972	2035	2318	2226	2067	2613	2130	1630	2296	1604	1803	2111	2367	3541	5128	3440	2548	17320	6866	6467	4887	8541	3217	4289	4191
	Landings(FP)				0	0	0	0	0	0	0	0	0	0	0	337	179	285	572	471	269	477	85	0	0	0	0	0	0	0	0	0	0	0
	Discards				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	104	108	86	6	0	14	15	6	2	1	2	4
	Landings		CP	Barbados	82	42	35	52	52	41	41	0	0	34	45	26	41	36	27	17	30	29	22	21	17	10	11	10	7	9	7	5	11	12
				Belize	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	29	27	34	23	33	59
				Brazil	26	1	16	38	41	0	0	0	0	405	519	449	111	75	76	70	19	357	213	477	153	312	404	322	150	23	57	21	30	77
				Canada	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				Cape Verde	361	408	503	603	429	587	407	576	500	343	458	449	555	524	351	472	470	470	445	445	445	445	490	228	299	293	196	151	117	44
				Costa Rica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	2	3	4	2	3	1	1	0	2
				Curaçao	250	230	230	230	230	230	230	230	230	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				Côte d'Ivoire	0	0	0	0	0	0	0	0	0	0	16	3	1	11	0	3	5	12	9	95	1	25	1	1	1	61	62	19	0	32
				EU-España	20	15	25	25	29	28	32	38	46	48	305	237	110	66	38	73	53	87	35	50	41	30	59	51	79	61	53	45	54	97

			1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
		EU-France	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	4	0	0	46	45	38	139	61	79	58	61	51	107
		EU-Portugal	0	0	0	0	0	0	0	0	0	0	1	0	3	0	4	3	9	8	10	2	0	0	0	0	0	0	3	0	0	3
		El Salvador	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
		Great Britain	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
		Grenada	46	49	56	56	59	82	51	71	59	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	18	15	16	16
		Guinea Ecuatorial	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	14	21	9	0	11	13	9	8	5	1
		Korea Rep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	6	14	12	9	13
		Liberia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	**0**
		Maroc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
		Mauritania	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54	263	48	1591	46	122	13678	4271	4975	2707	7035	2026	603	2039
		Mexico	0	0	0	0	0	0	0	0	0	0	35	0	0	0	0	0	0	0	0	0	16	12	18	15	12	14	15	11	9	14
		Panama	0	0	0	0	0	0	0	0	0	0	0	0	91	240	120	86	111	99	210	373	228	0	109	0	77	123	111	50	107	192
		S.Tomé e Príncipe	39	46	80	52	56	62	52	52	52	52	94	88	76	0	131	233	241	247	234	260	266	100	70	172	1	157	8	102	60	118
		Senegal	0	0	1	0	0	5	0	0	0	5	0	1	1	0	0	2	6	0	11	24	0	3	7	0	0	0	0	23	89	55
		South Africa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		St.Vincent and Grenadines	20	16	23	10	65	52	46	311	17	40	60	0	241	29	24	31	40	31	5	32	24	9	11	126	92	27	30	0	16	21
		Trinidad and Tobago	0	0	0	1	1	1	2	1	9	7	6	6	7	6	6	5	5	7	9	9	9	9	10	8	7	6	6	5	7	8
		UK-Bermuda	30	93	99	105	108	104	61	56	91	87	88	83	86	124	117	101	81	100	88	75	76	86	95	92	68	82	60	67	76	68
		UK-British Virgin Islands	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	1	0	4	1	1	0	0	0	0	0	1	3	0
		UK-Sta Helena	26	25	23	19	10	15	15	22	25	18	17	11	20	13	18	29	19	31	12	16	16	10	15	16	9	5	5	6	5	13
		UK-Turks and Caicos	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		USA	391	764	608	750	614	858	640	633	846	789	712	558	89	1123	495	522	653	584	999	460	1027	1153	2060	1204	530	974	633	455	2959	1037
		Venezuela	542	540	487	488	360	467	4	17	13	9	7	16	13	33	9	25	28	23	38	32	27	30	64	51	45	46	40	31	56	85
	NCC	Chinese Taipei	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1132	1012	810	0	0	0	0	0	0	0	0	**0**
		Guyana	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	**0**
		Suriname	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
	NCO	Aruba	125	40	50	50	50	50	50	50	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		Dominica	59	58	58	58	58	50	46	11	37	10	6	8	15	14	16	10	13	13	0	0	20	10	10	6	3	10	5	0	0	
		Dominican Republic	0	0	0	325	112	31	35	35	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		Jamaica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		Saint Kitts and Nevis	0	0	0	0	0	0	0	0	0	7	6	7	0	0	0	0	0	0	0	0	0	6	9	14	13	0	9	0	0	
		Sta Lucia	98	80	221	223	223	310	243	213	217	169	238	169	187	0	171	195	199	0	0	148	156	87	147	110	0	127	70	77	71	58
Landings(FP)	CP	Belize	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	40	0	0	0	0	0	0	0	0	0	0	0	**0**
		Cape Verde	0	0	0	0	0	0	0	0	0	0	0	92	9	55	60	22	29	25	4	0	0	0	0	0	0	0	0	0	0	**0**
		Curaçao	0	0	0	0	0	0	0	0	0	0	0	0	13	7	31	57	23	78	9	0	0	0	0	0	0	0	0	0	0	**0**
		Côte d'Ivoire	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	**0**
		EU-España	0	0	0	0	0	0	0	0	0	0	0	92	63	44	224	262	136	240	56	0	0	0	0	0	0	0	0	0	0	**0**
		EU-France	0	0	0	0	0	0	0	0	0	0	0	28	10	3	16	26	26	17	0	0	0	0	0	0	0	0	0	0	0	**0**
		Guatemala	0	0	0	0	0	0	0	0	0	0	0	68	11	21	28	7	0	8	0	0	0	0	0	0	0	0	0	0	0	**0**
		Guinée Rep	0	0	0	0	0	0	0	0	0	0	0	10	0	8	15	7	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
		Panama	0	0	0	0	0	0	0	0	0	0	0	39	44	104	102	65	13	66	15	0	0	0	0	0	0	0	0	0	0	**0**
	NCO	Mixed flags (EU tropical)	0	0	0	0	0	0	0	0	0	0	0	28	30	44	97	26	39	0	0	0	0	0	0	0	0	0	0	0	0	
Discards	CP	EU-France	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	14	15	6	2	1	2	4
		Korea Rep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	**0**
		Mexico	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Panama	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
		South Africa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
		UK-British Virgin Islands	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
	NCC	Chinese Taipei	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	104	108	86	0	0	0	0	0	0	0	0	**0**

SMT-Table 2. Three 3 colour classification indicating the missing parameters by species and areas. Grey squares represent the area where the species does not occur or is not exploited.

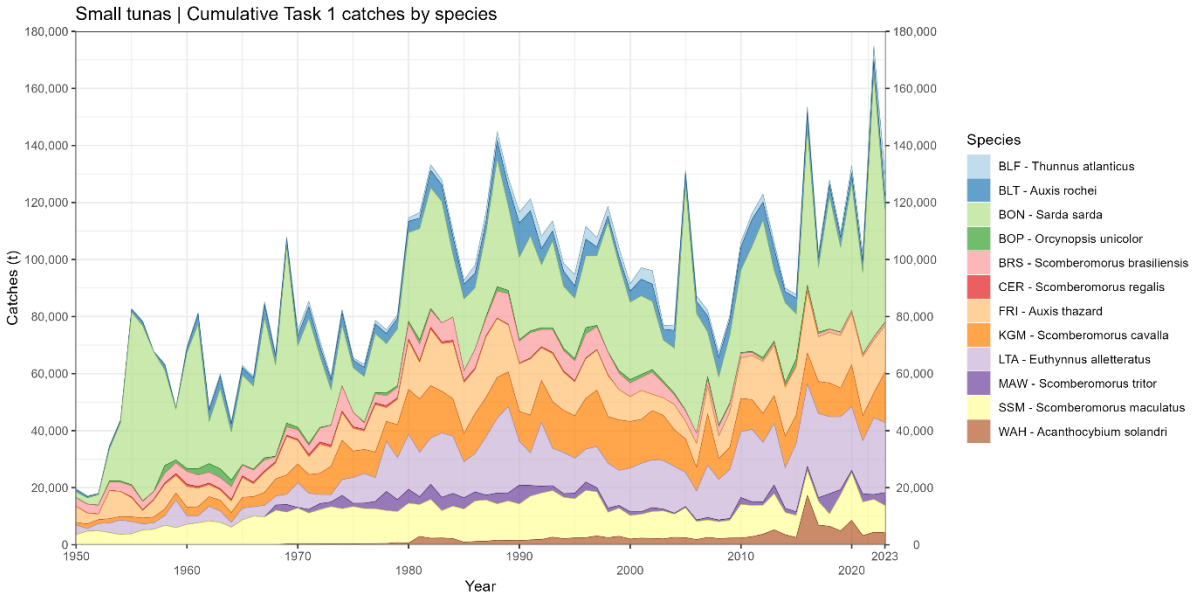
Species code	Areas				
	MEDI	**NE**	**SE**	**NW**	**SW**
BLF	out of range	out of range	out of range	Miss Tmax, T50 and Fmb	Miss Tmax, T50 and Fmb
BLT	Have all	miss L50, T50 and Fmb	miss a,b, Lmax Fmb	Miss all	Miss all
FRI	Miss all	Miss everything except Lmax and a,b,	Miss Lmax, L50, T50 and Fmb, a e b	Miss all	miss: Linf, K, t0, Tmax, T50, L50, Fmb
LTA	Have all	Miss T50, fmb	Miss all	Miss Fmb and T50	miss: Lmax, Linf, K, t0, Tmax, T50, L50, Fmb
BON	Have all	Miss T50, fmb	Miss all	Miss all	miss: Lmax, Linf, K, t0, Tmax, T50, L50, Fmb
BOP	Miss Fmb	miss: Linf, K, t0, Tmax, T50, L50, Fmb, a e b	Miss all	out of range	out of range
WAH	out of range	hf, K, t0, Tmax,	Miss all	Have all	miss: Linf, K, t0, Tmax, T50
BRS	out of range	out of range	out of range	Miss Fmb	Miss Fmb and T50
KGM	out of range	out of range	out of range	Have all	Miss Fmb
SSM	out of range	out of range	out of range	Miss Fmb	Miss all
CER	out of range	out of range	out of range	miss: Linf, K, t0, Tmax, T50, Fmb	Miss all
MAW	Miss all	miss: t0, Tmax, T50, Fmb	Miss all except Lmax	out of range	out of range
DOL	Miss Lmax, T50 and Fmb	Miss all except a and b	Miss all except Linf and k	Miss Lmax, T50 and Fmb	Miss L50, a,b, max, T50 and Fmb

SMT-Table 3. Summary of the current state of knowledge on the current stock status for small tunas in the Atlantic Ocean and the Mediterranean. Results taken from Pons *et al.*, 2019a. Red indicates values below reference levels (overfished) and green above reference values (not overfished).

Data limited Assessments							
	Last year assessed	Length based			Catch based		Catch+Length
		LBSPR	LIME	LBSPR	DBSRA	SSS	LIME
		Pons *et al.* (2019a)		Baibbat *et al.* (2019)	Pons *et al.* (2019b)		
		SPR	SPR		B/BMSY	B/BMSY	B/BMSY
LTA_SE	2014-2016	0.13	0.27	--	0.69	0.94	1.83
BON_NE	2014-2016	0.23	0.71	0.34	1.63	1.98	2.02
WAH_NW	2014-2016	0.37	0.29	--	1.02	1.34	0.86
WAH_NE	2014-2016	0.55	0.38	--	--	--	--
BON_Med	2014-2016	0.59	0.22	--	--	--	--
LTA_Med	2014-2016	0.66	0.62	--	1.88	2.33	1.08
LTA_NW	2014-2016	0.66	0.48	--	--	--	--
FRI_SE	2014-2016	0.79	0.53	--	1.79	2.65	1.10
FRI_NE	2014-2016	0.83	0.46	--	1.64	2.50	1.29
LTA_NE	2014-2016	0.90	1.00	--	--	--	--

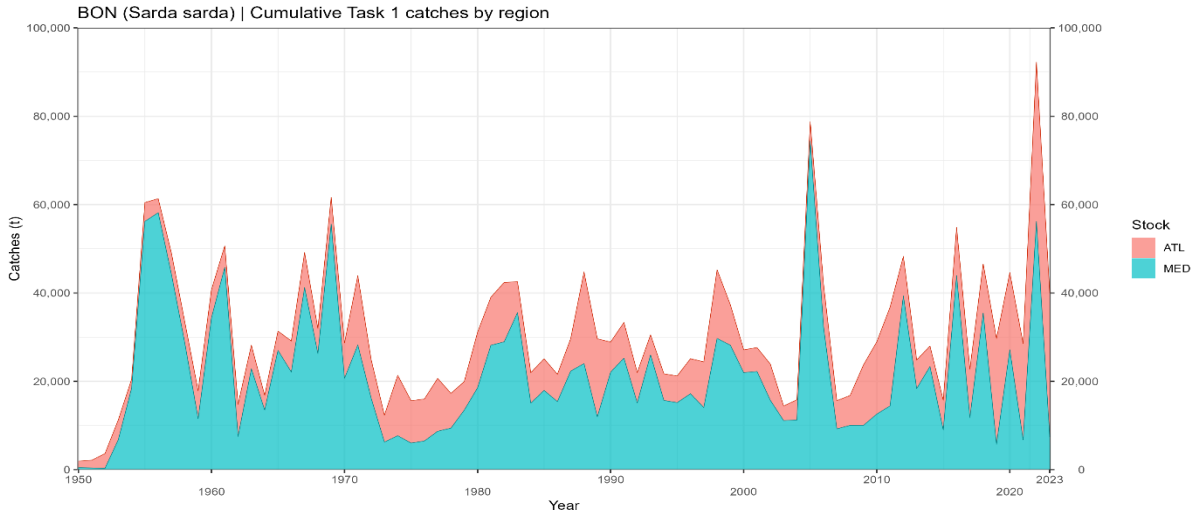
SMT-Table 4. Summary of the Northwest Atlantic wahoo management strategy evaluation results for selected MPs using the DLMtool package (Mourato *et al.*, 2019). Color cells coding is used to denote if the particular MP falls within acceptable performance metric criteria (green – acceptable and red – not satisfied). Probability of not overfishing (**PNOF**; $F<F_{MSY}$); probability of spawning biomass being higher than half of spawning biomass at maximum sustainable yield (**P50**; $SB>0.5\ SB_{MSY}$); probability of spawning biomass being higher than spawning biomass at maximum sustainable yield (**P100**; $SB>SB_{MSY}$); probability of average annual variability in yield being lower than 20% (**AAVY**; Prob. AAVY < 20%); probability of average yield being higher than half of reference yield (**LTY**; Prob. Yield > 0.5 Ref. yield). Acceptable management procedures were defined as those that supported **PNOF**>70%, **P50**>90%, **P100**>70%, **AAVY**>50% and **LTY**>50%.

Management Procedures	PNOF	P50	P100	AAVY	LTY
Length-based methods					
LBSPR	0.74	0.93	0.65	0.120	0.86
minlenLopt1	0.75	0.95	0.72	0.110	0.83
matlenlim	0.75	0.96	0.74	0.095	0.81
Catch-based methods					
AvC	0.70	0.95	0.76	0.630	0.78
CC1	0.71	0.95	0.76	0.640	0.76
SPMSY	0.81	0.98	0.86	0.110	0.43
DBSRA	0.61	0.98	0.81	0.450	0.74
Fishing effort control methods					
curE	0.75	0.93	0.66	0.130	0.85
curE75	0.87	0.97	0.78	0.150	0.80

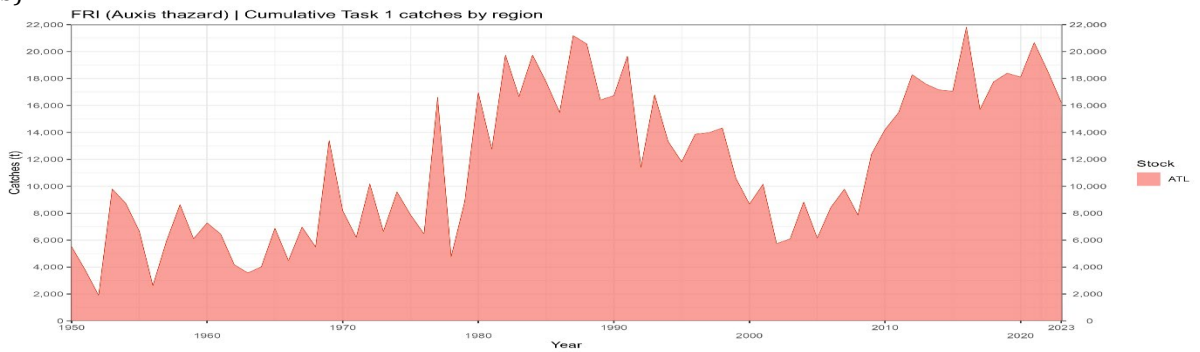


SMT-Figure 1. Estimated landings (t) of small tunas (combined) in the Atlantic and Mediterranean, 1950-2023. The data for the last three years are incomplete.

a)

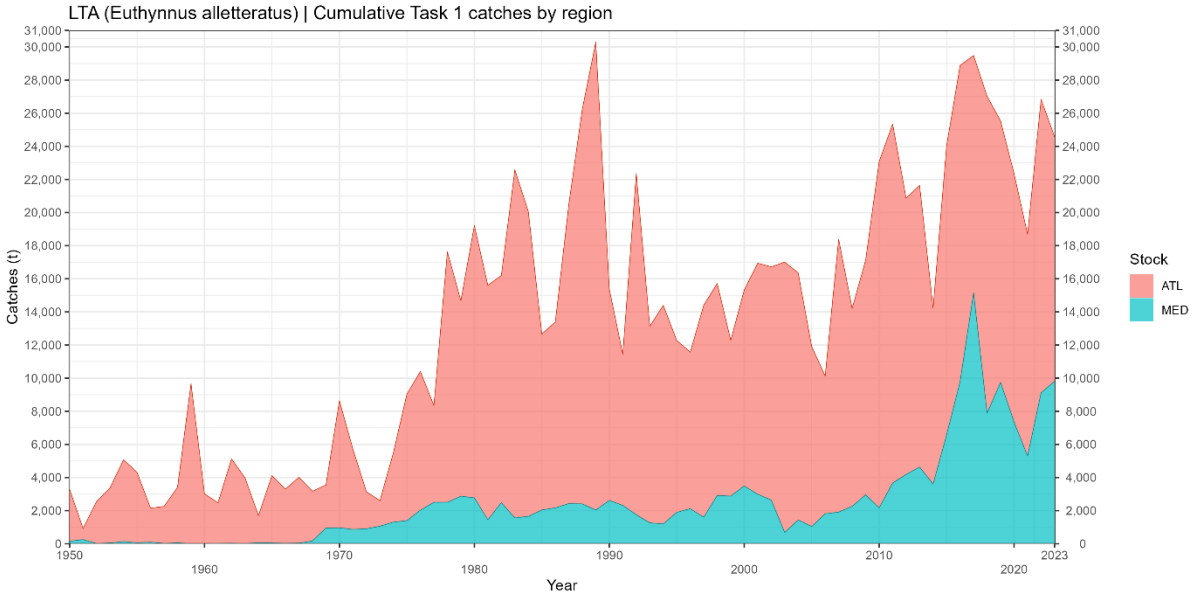


b)

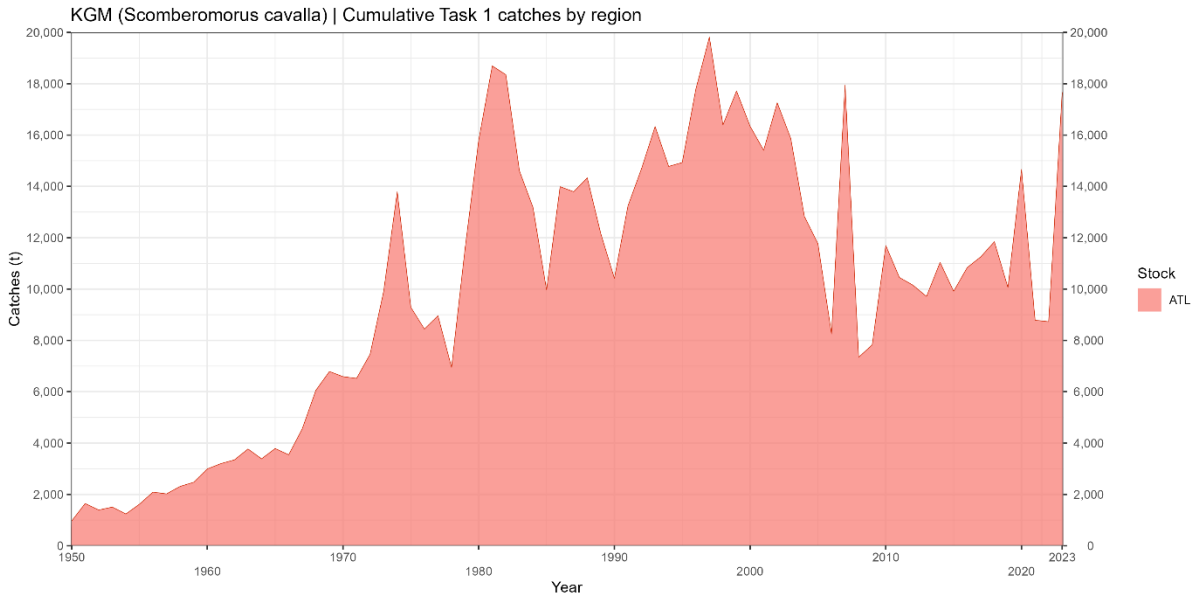


SMT-Figure 2. Estimated landings (t) of the major species of small tunas in the Atlantic and Mediterranean, 1950-2023. The data for the last years are incomplete.

c)

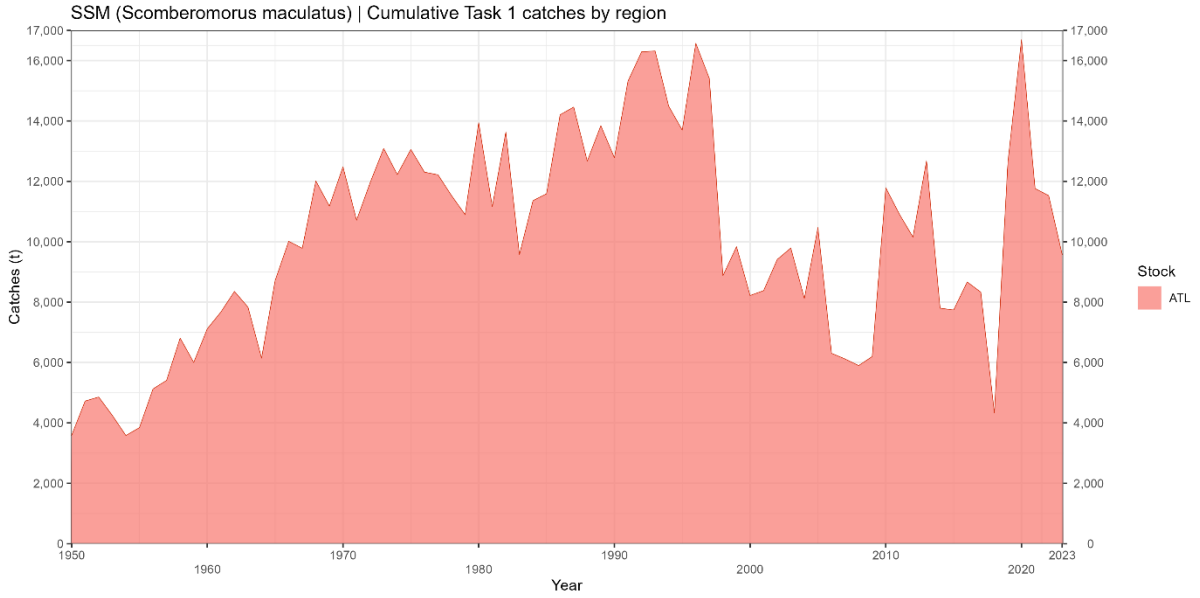


d)

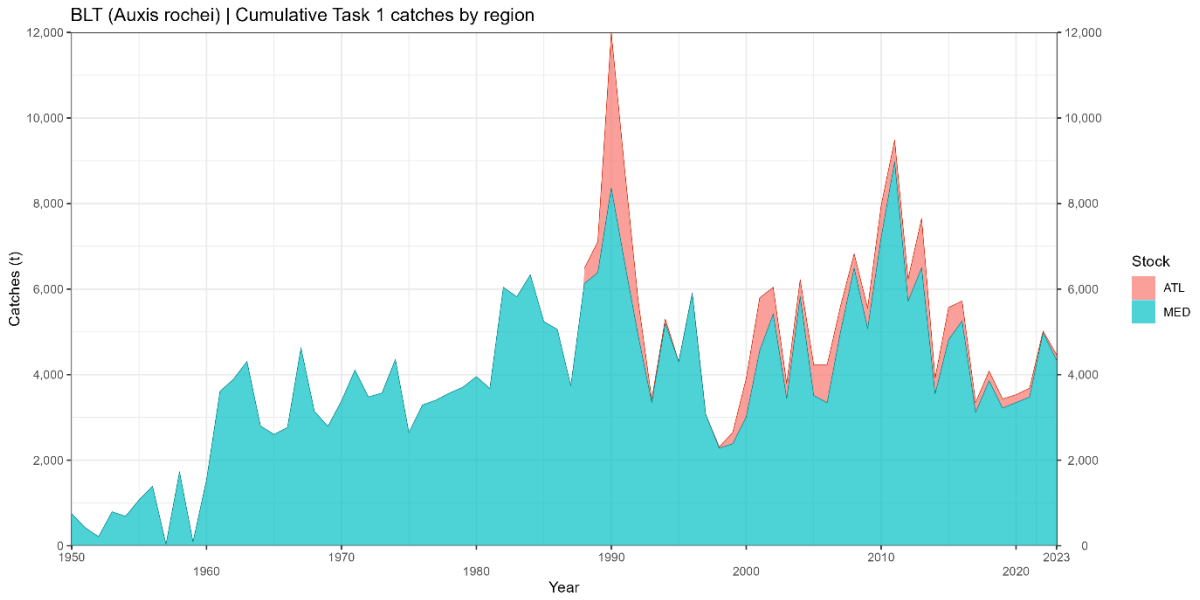


SMT-Figure 2. Estimated landings (t) of the major species of small tunas in the Atlantic and Mediterranean, 1950-2023. The data for the last years are incomplete.

e)

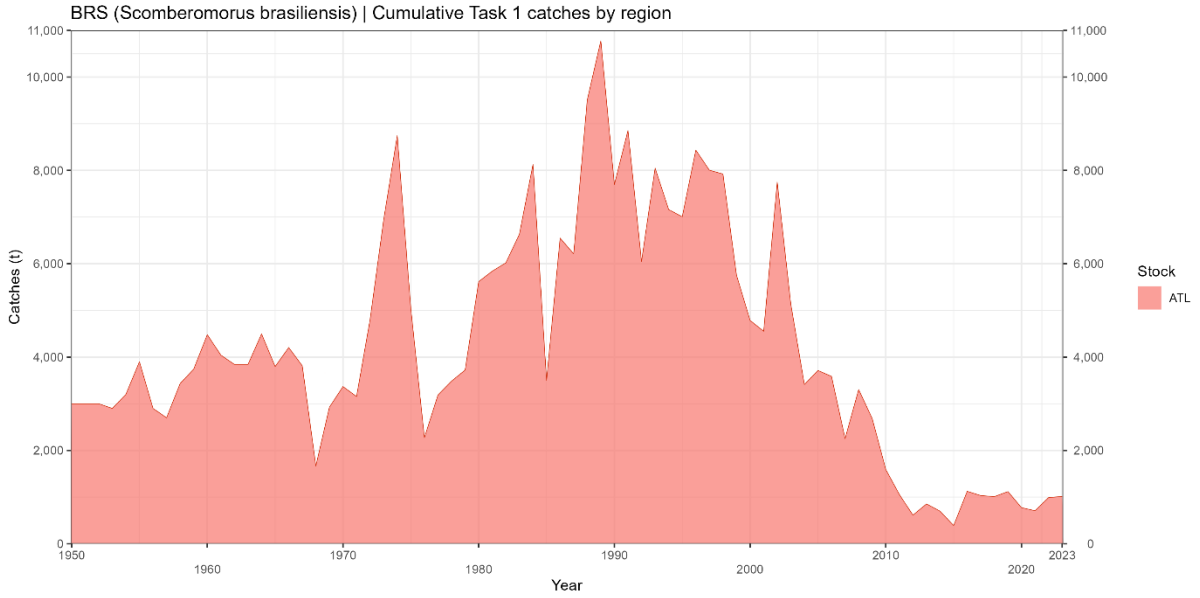


f)

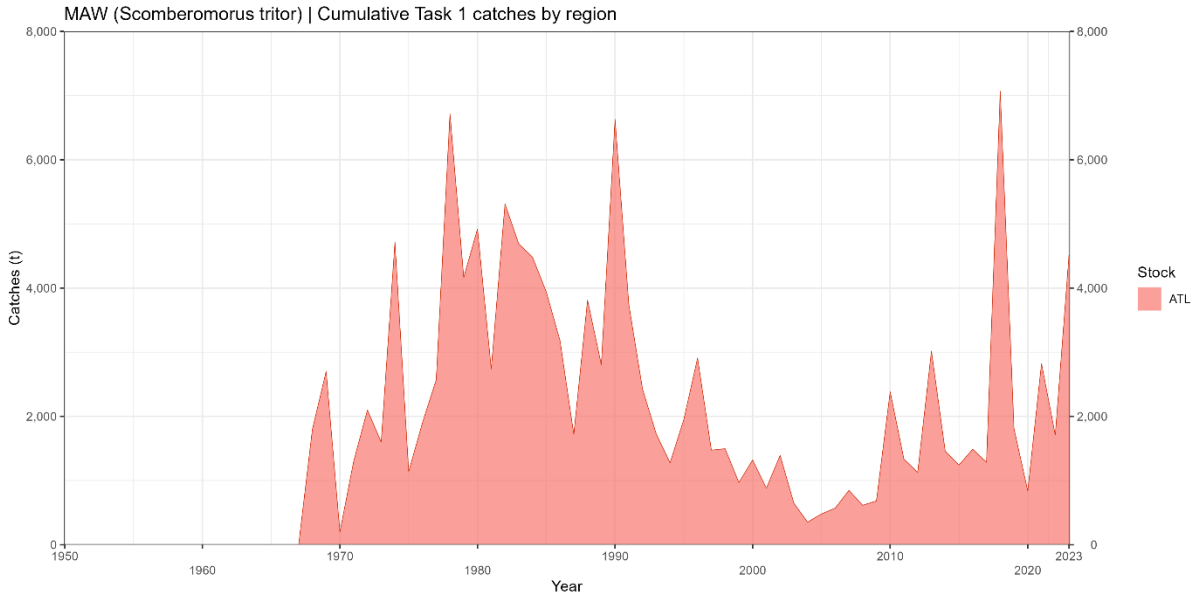


SMT-Figure 2. Estimated landings (t) of the major species of small tunas in the Atlantic and Mediterranean, 1950-2023. The data for the last years are incomplete.

g)

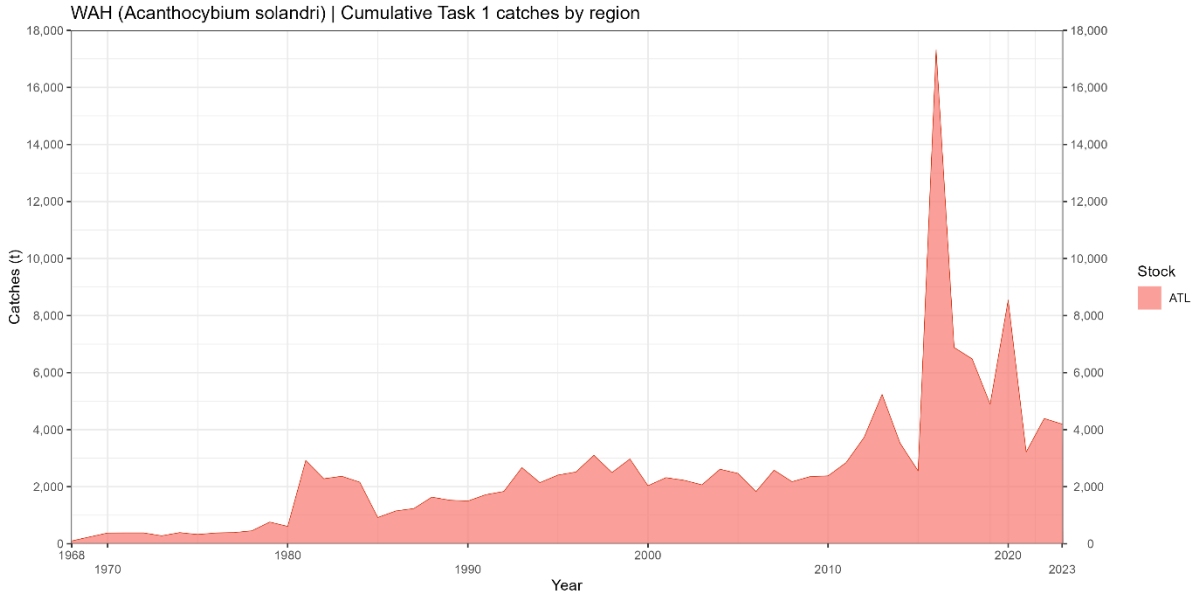


h)

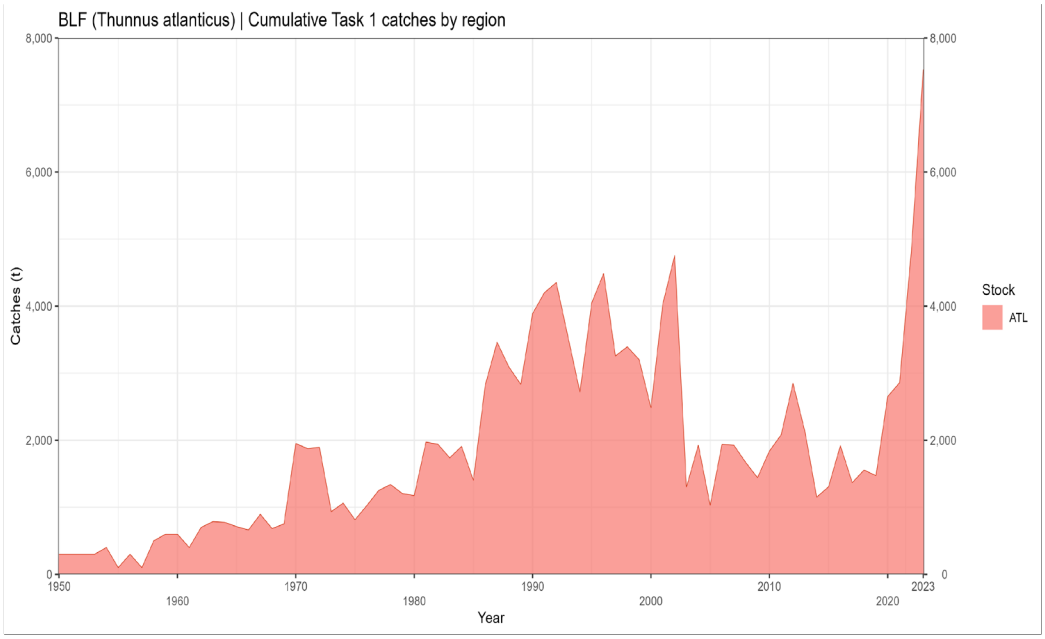


SMT-Figure 2. Estimated landings (t) of the major species of small tunas in the Atlantic and Mediterranean, 1950-2023. The data for the last years are incomplete.

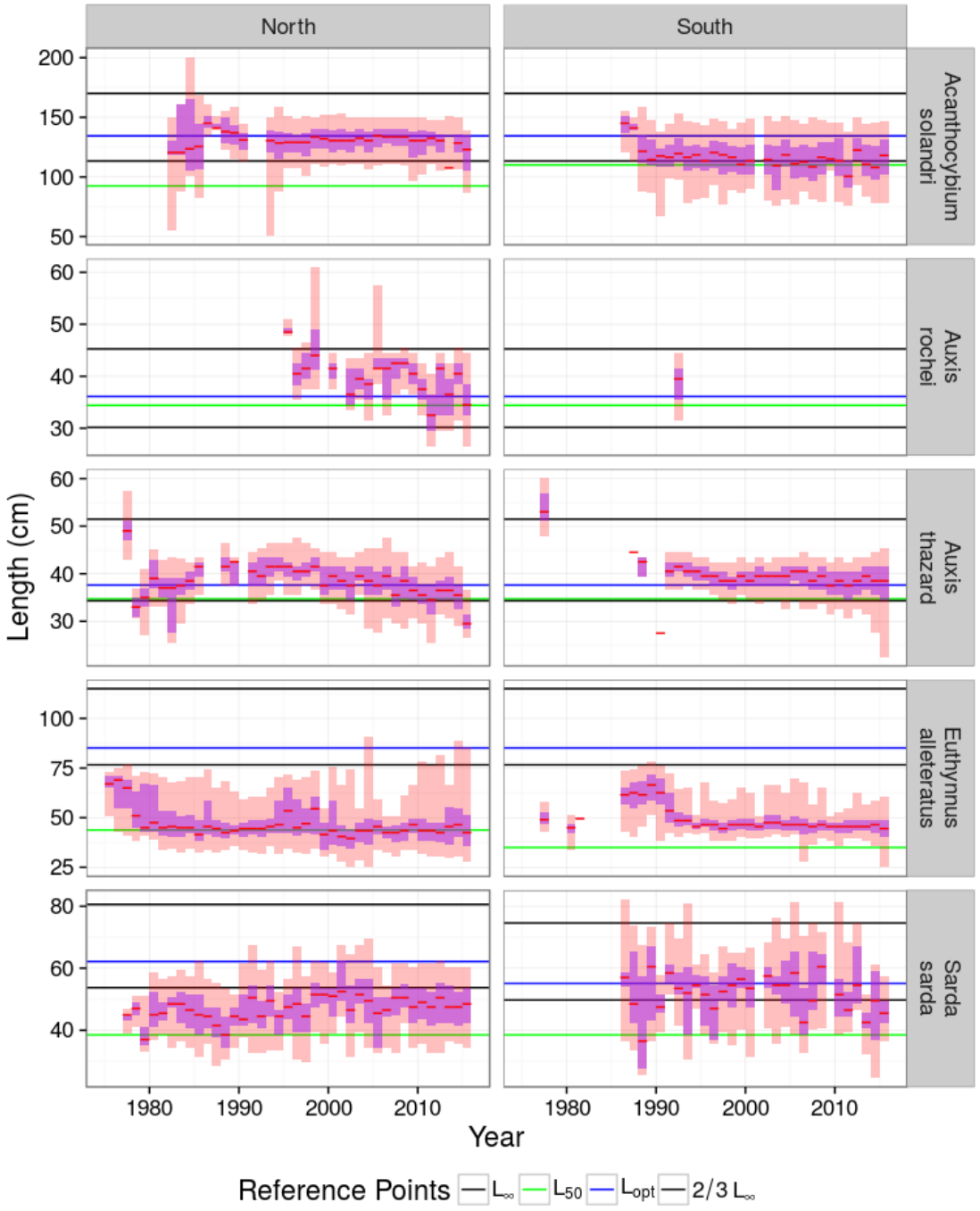
i)



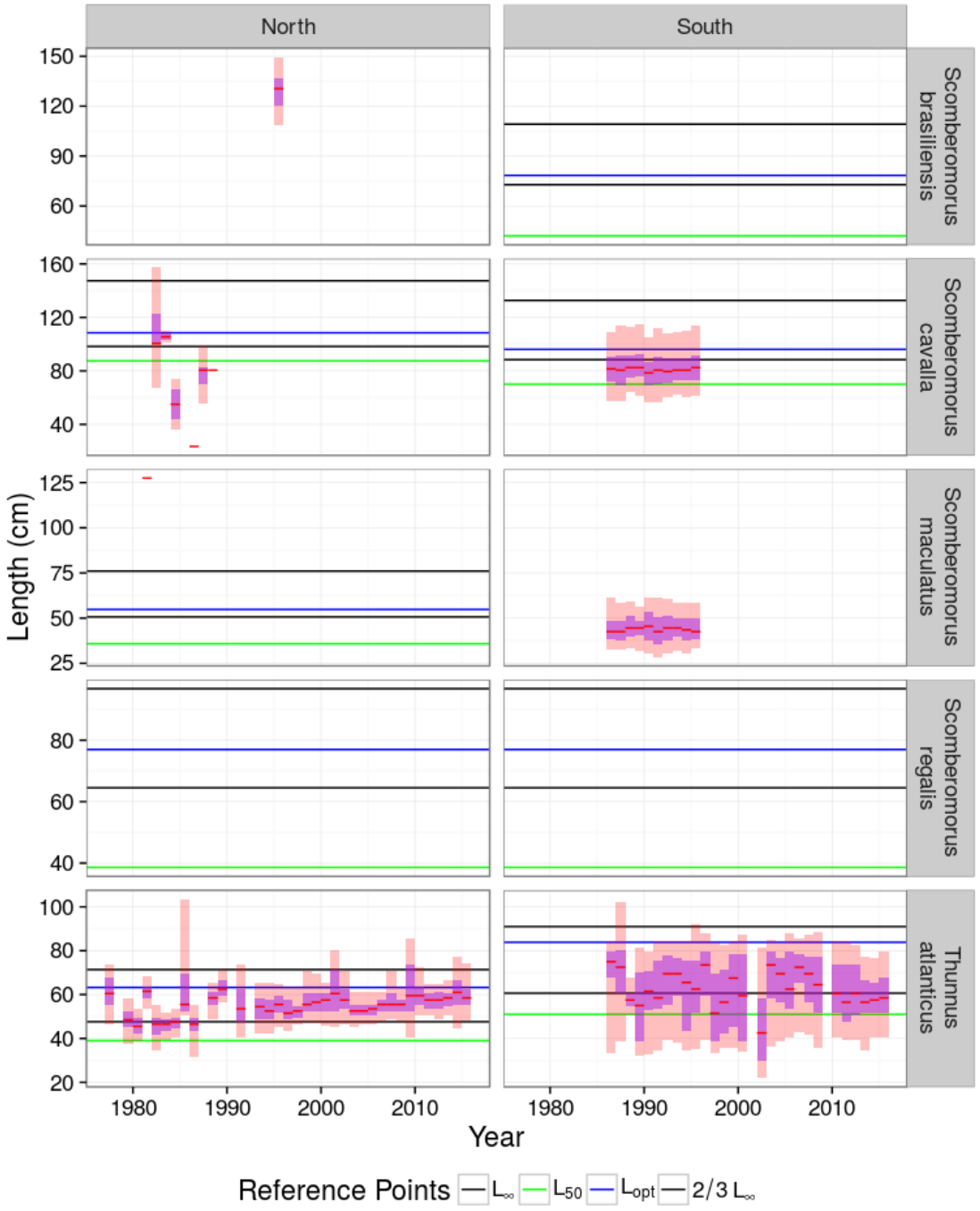
j)



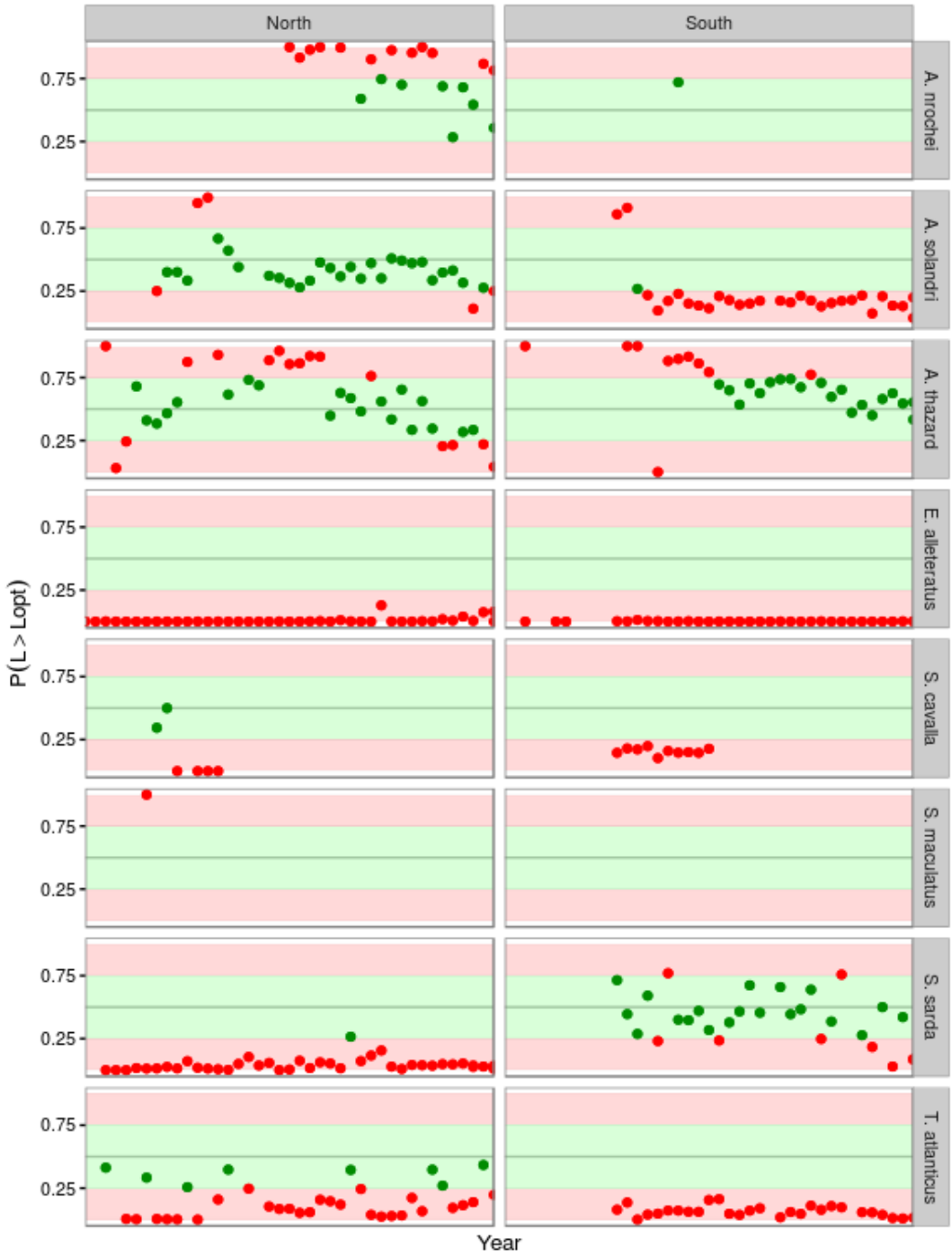
SMT-Figure 2. Estimated landings (t) of the major species of small tunas in the Atlantic and Mediterranean, 1950-2023. The data for the last years are incomplete.



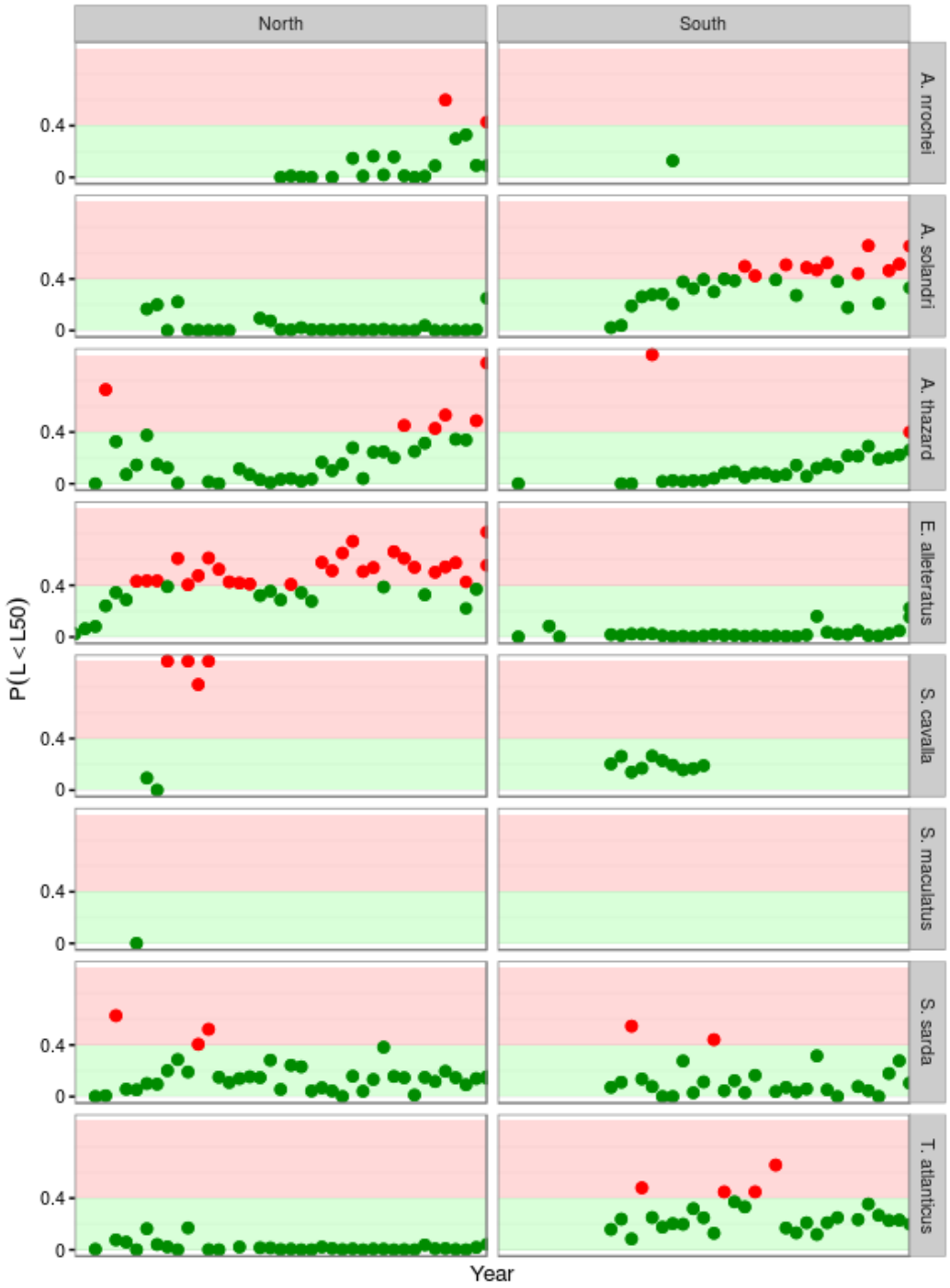
SMT-Figure 3a. Length distributions and reference points by species and Atlantic region for version 4 of Task 2 size data. The horizontal lines show the reference points i.e. asymptotic length (L_∞), length at 50% mature (L_{50}) and two estimates of the size at which a cohort reaches its maximum biomass (L_{OPT}) and its proxy ($2/3 \sim L_\infty$). The bars show the length distributions, i.e. median, interquartiles (5%, 95%).



SMT-Figure 3b. Length distributions and reference points by species and Atlantic region for version 4 of Task 2 size data. The horizontal lines show the reference points i.e. asymtopic length (L_∞)), length at 50% mature (L_{50}) and two estimates of the size at which a cohort reaches its maximum biomass (L_{OPT}) and its proxy ($2/3 \sim L_\infty$). The bars show the length distributions, i.e. median, interquartiles (5%, 95%).



SMT-Figure 4a. Proportion of length distributions greater than L_{OPT} by species and Atlantic region. 50% is used as a target reference point and so catches where the proportions of individuals greater than L_{OPT} is >25% and <75% are coloured green.



SMT-Figure 4b. Proportion of length distributions less than L_{50} by species and Atlantic region; 40% is used as a limit reference point and so when the proportion of individuals less than L_{50} is >40% is coloured red.