9.6 BFT - Atlantic bluefin tuna

In 2022, the ICCAT Commission adopted a Management Procedure (MP) for both the western Atlantic and eastern Atlantic and Mediterranean management areas (Rec. 22-09). The adoption of the MP represents a foundational change in how bluefin tuna (BFT) will be managed. This approach links eastern and western area Total Allowable Catch (TACs) under one management framework, providing joint management advice, and requires the Executive Summaries for the East and West BFT (BFT-E and BFT-W) to have common or closely related sections. The MP frees the assessment process from having to provide annual TAC advice and allows the stock assessment process to return to its traditional strengths which are to provide a determination of relative stock status. According to the adopted MP, stock assessments will continue to be conducted but on a more reduced frequency. The next assessment will be held in 2026 or 2027, pending further dialogue between the Committee and the Commission.

Until such time as a new assessment occurs, the Committee retains the stock status determination from the most recent assessments: West (ICCAT, 2021d) and East Atlantic and Mediterranean (ICCAT, 2022d). Previous stock assessments utilized $F_{0.1}$ as a reasonable proxy for F_{MSY} as fishing at $F_{0.1}$ would, over the longer term, allow the resource to fluctuate around the true, but unknown, value of $B_{0.1}$ regardless of the future recruitment level. The $F_{0.1}$ strategy compensates for the effect of recruitment changes on biomass by allowing higher catches when recent recruitment is higher and reducing catches when recent recruitments are lower. Given that it remains unknown whether future stock assessments will be able to estimate a stock-specific F_{MSY} , $F_{0.1}$ remains a useful proxy to evaluate overfishing status. The Committee notes that $F_{0.1}$ was not used to evaluate status within the Management Strategy Evaluation (MSE) as the true F_{MSY} was known within each of the operating models.

For many years, the Committee has been concerned that environmental factors and changing fishing practices may affect many of the relative abundance indices used in the MP leading to exceptional circumstances (EC) and challenges to assess stock status. Furthermore, there still remains a key source of uncertainty in the scale of the total population size. The Committee has provided "Eastern Atlantic Bluefin Tuna Close-Kin Mark Recapture (CKMR) Implementation Plan Proposal" and the "Bluefin tuna workplan for 2025" to address these concerns.

Annually, the Committee evaluates the updated indices of abundance for determination of EC. Based upon the current EC protocols (Rec. 23-07), the Committee provides details and results of such determination in section 19.12.

BFT-1. Biology

Atlantic bluefin tuna have a wide geographical distribution but live mainly in the temperate pelagic ecosystem of the entire North Atlantic and its adjacent waters, for example the Gulf of Mexico, Gulf of St Lawrence and the Mediterranean Sea. Historical catch information documents the presence in the South Atlantic (BFT-Figure 1). Electronic archival tagging information has confirmed that bluefin tuna can tolerate cold as well as warm water temperatures while maintaining a stable internal body temperature. Bluefin tuna preferentially occupy the surface and subsurface waters of the coastal and open-sea areas, but archival electronic tagging and ultrasonic telemetry data indicate that they frequently dive to depths of more than 1,000 m. Bluefin tuna are a highly migratory species that seems to display a homing behaviour and spawning site fidelity to primary spawning areas in both the Mediterranean Sea and the Gulf of Mexico. Evidence indicates spawning in other areas, for example the vicinity of the Slope Sea off the Northeast USA and more recently the Cantabrian Sea, though the persistence and importance of these other areas as spawning grounds remain to be determined. Electronic tagging is also resolving the movements to the foraging areas within the Mediterranean and the North Atlantic and indicates that bluefin tuna movement patterns vary by tagging site, by month of tagging and according to the age of the fish. The reappearance of bluefin tuna in historical fishing areas (e.g. Norway and, more recently, the Black Sea) suggest that important changes in the spatial dynamics of bluefin tuna may also have resulted from interactions between biological factors, environmental variations and a reduction in fishing effort.

The fisheries for Atlantic bluefin tuna were managed as two separate management units, but now are managed with an MP that explicitly considers the mixing of the two biological populations. However, TAC advice remains area specific with separation at the 45 W meridian.

The ICCAT Atlantic-Wide Bluefin Tuna Research Programme (GBYP), as well as national research programmes, have provided the basis for improved biological studies. A genotyping assay has been developed and tested for stock identification, sex determination and kinship analysis. A pilot study on epigenetic aging indicates the viability of this approach for both eastern and western BFT. Modelling has been carried out to assess the feasibility of implementing the close-kin mark-recapture methodology for BFT-E. Within the GBYP, the aerial survey in the Mediterranean has continued, as well efforts to increase and improve the information available on the spatial distribution and mixing of the BFT and to promote and support electronic tagging campaigns. Substantial progress has been made in estimating regional, time varying mixing rates for Atlantic bluefin tuna, using otolith stable isotope and genetic analyses. Research on the larval ecology of Atlantic bluefin tuna has advanced in recent years through oceanographic habitat suitability models.

Currently, the Committee assumes for assessment purposes that eastern Atlantic and Mediterranean bluefin tuna contributes fully to spawning at age 5. There are also indications that some young individuals (of age 5) of unknown origin caught in the West Atlantic are mature, but there is considerable uncertainty with regards to their contribution to the western stock spawning. Therefore, the Committee has considered two spawning schedules for the western stock; one identical to that used for the East and one with peak spawning at age 13. However, the latest review of reproductive biology has shown that both the current vectors for spawning fraction at-age might be biased, and that the magnitude of that bias is unknown. Juvenile growth is rapid for a teleost fish, but slower than for other tuna and billfish species. Fish born in June attain a length of about 30-40 cm and a weight of about 1 kg by October. After one year, fish reach about 4 kg and 60 cm in length. At 10 years of age, a bluefin tuna is about 200 cm and 170 kg and reaches about 270 cm and 400 kg at 20 years of age. Bluefin tuna is a long-living species, with a lifespan of about 40 years as indicated by radiocarbon deposition and can reach 330 cm straight fork length (SFL) and weigh up to 725 kg. In 2017, the Committee revised the natural mortality assumptions and adopted a single new age specific natural mortality vector for both stocks.

Important electronic and conventional tagging activity has been conducted for both juvenile and adult fish for several years in the Atlantic and Mediterranean by the ICCAT GBYP, National Programmes and non-governmental organizations (NGOs). Contributions from e-tag data from all groups are supporting ongoing efforts to provide important insights into bluefin tuna stock structure, distribution, mixing and migrations, and are helping to estimate fishing mortality rates and to condition the MSE operating models. Three workshops organized by the GBYP on larval indices, close-kin mark-recapture and electronic tagging were held in 2023. In these workshops there has been a large participation and contributions that have allowed progress and planning in the three research areas.

East bluefin tuna

BFT-E-2. Fishery trends and indicators - East Atlantic and Mediterranean

Reported catches in the East Atlantic and Mediterranean (**BFT-Figure 1**) reached a peak of over 50,000 t in 1996 and then decreased substantially, stabilizing at around the TAC levels established by ICCAT for the most recent period (**BFT-E-Figure 1**). Catches between 2019 and 2023 (as of September 2024) were respectively 31,136 t, 35,048 t, 35,097 t, 35,110 t and 39,247 t for the East Atlantic and Mediterranean, of which 22,092 t, 24,174 t, 24,789 t, 24,632 t and 28,250 t were reported for the Mediterranean for those same years (**BFT-Table 1**). The Committee is aware of ongoing, unquantified, illegal, unreported and unregulated fishing (IUU) catches that represents a serious impediment to being able to determine the productivity of the stock and to provide reliable TAC advice. In response, the Committee urges identification and quantification of IUU catches so that it can provide more accurate biomass-based catch advice and obtain more accurate scientific understanding of stock productivity.

Available information has demonstrated that catches of bluefin tuna from the East Atlantic and Mediterranean were seriously under-reported between the mid-1990s through 2007. The Committee estimated that the realized total catch during this period was likely of the order of 50,000 t to 61,000 t per year, based on the number of vessels operating in the Mediterranean Sea and their respective catch rates. Since the 2017 Bluefin Tuna Stock Assessment (ICCAT, 2018a), these estimates (1998-2007) have been treated as the actual catches.

During the 2022 Stock Assessment Meeting (ICCAT, 2022d), the decision was made to use ten abundance indices up to 2020 (seven CPUE series and three fisheries independent indices, **BFT-E-Figure 2**). The current MP uses five indices in each management area (in the East, two CPUE indices and three surveys, **BFT-Figure 2**).

Review of the indices for ECs is based on the combined index, however it is informative to evaluate trends in individual indices relative to those predicted by the operating models in the MSE (BFT Figures 2 and 3). The data for the West Mediterranean Larval survey have been collected but the index was not able to be updated at the time of publication. The Moroccan-Portugal trap index data point for 2023 reflected substantial changes in the fishing operations hence the index data point for this year is considered unavailable under the EC protocols (Rec. 23-07).

BFT-E-3. State of the stock

There have been considerable improvements in data quality and quantity over the past few years; nevertheless, important gaps remain in the temporal and spatial coverage for detailed size and catch-effort statistics for several fisheries, especially in the Mediterranean before the implementation of stereo video cameras in 2014. The catch at size (CAS) and catch-at-age (CAA) of the not elsewhere included (NEI) catch (1998-2007) were revised.

Three modelling platforms were used to conduct the assessment of the BFT-E in 2022. As in previous assessments, a virtual population analysis (VPA) was conducted, and two additional platforms, Stock Synthesis (SS) and the age-structured assessment programme (ASAP), were applied.

The three models showed similar trends in spawning stock biomass (SSB), with a progressive decline in SSB from the 1970s until the implementation of a Recovery Plan developed in 2006 (Rec. 06-05). Since the late 2000s there has been a strong increase in SSB, although the magnitude and rate of increase differ among the three models, with VPA indicating the lowest biomass while ASAP indicates the largest increase. Uncertainty in the rate and magnitude of the increase in SSB is evident for all three platforms and in the sensitivity tests conducted for each platform, especially in recent years (BFT-E-Figure 3). The fishing mortality of the age group 2-5 and age 10+ fish showed an increasing trend since the 1970s, whereas the F for both the age group 2-5 and age 10+ shows a drastic decline in fishing mortality since the establishment of the 2006 Recovery Plan (BFT-E-Figure 3). Recently, fishing mortality has been increasing, however, when average over all three models, fishing mortality is still below fishing mortality target.

Recruitments estimated by the three assessment platforms show considerable variability, especially over the recent period. In general, however, there are two distinct periods, one with low recruitments before 1990 and the other with higher recruitments thereafter (**BFT-E-Figure 3**).

The current perception of the stock status depends on recruitment estimates which are highly uncertain. The different models showed a relatively wide range of stock status estimates relative to the $F_{0.1}$ reference level, ranging from overfishing to not overfishing ($F_{\text{CURRENT}}/F_{0.1}$): VPA = 1.16; SS = 0.72 and ASAP = 0.54. To inform stock status, the Committee recommended that the results of the three models be considered equally, by integrating the results. The resultant point estimate of F_{CUR} is below $F_{0.1}$ ($F_{\text{CURRENT}}/F_{0.1}$ = 0.81; 95% CI 0.48-1.62), indicating a stock status determination of not overfishing. Furthermore, fishing mortality rates are much lower than those during the 1998-2007 period.

BFT-E-4. Outlook

The Committee considers that the three assessment platforms (VPA, SS and ASAP) have disparate and highly uncertain estimates of recent recruitment and absolute biomass, which would make short-term catch advice based on $F_{0.1}$ not robust in terms of both the consequences of taking a particular TAC and the accuracy of absolute $F_{0.1}$ estimate.

The adopted management procedure accounts for many of the long-standing uncertainties regarding stock mixing, biomass-based reference points and recruitment that created uncertainty for the outlook for the stock. Furthermore, the Committee is no longer providing projections, TAC advice or Kobe 2 strategy matrices derived from the stock assessments using an $F_{0.1}$ strategy, as the MP provides TAC advice that was simulation tested to achieve MSY-based management objectives.

BFT-E-5. Effect of current regulations

The TAC for 2023 to 2025 is set at 40,570 t. The Committee noted that reported catches in 2023 are in line with the TACs. However, the Committee has been previously informed of the existence of unquantified illegal catches.

BFT-E-6. Management recommendations

The management plan established in Rec. 22-08 and based on the MP for BFT sets a TAC for BFT-E of 40,570 t for 2023 to 2025.

According to the EC protocol in Rec. 23-07 and noted in section 19.12 no EC exists that would warrant deviating from the TAC calculated under the MP for 2025.

EAST ATLANTIC AND MEDITERRANEA	N BLUEFIN TUNA SUMMARY
Current reported catch (2023)	39,247 t*
F _{CURRENT} /F _{0.1} 1 (2020)	0.81 (0.48-1.62) ²
Stock Status (2020) ³	Overfishing: No
TAC 2023-2025	40,570 t

¹ F_{CURRENT} refers to the geometric mean of the estimates (a proxy for recent F levels) for 2017-2020 for VPA, and for 2018-2020 for ASAP and SS. For the VPA and ASAP, F is measured as apical F, for SS F is exploitation rate in biomass.

² Mean and approximate 95% CI from integrating across the uncertainty for each model.

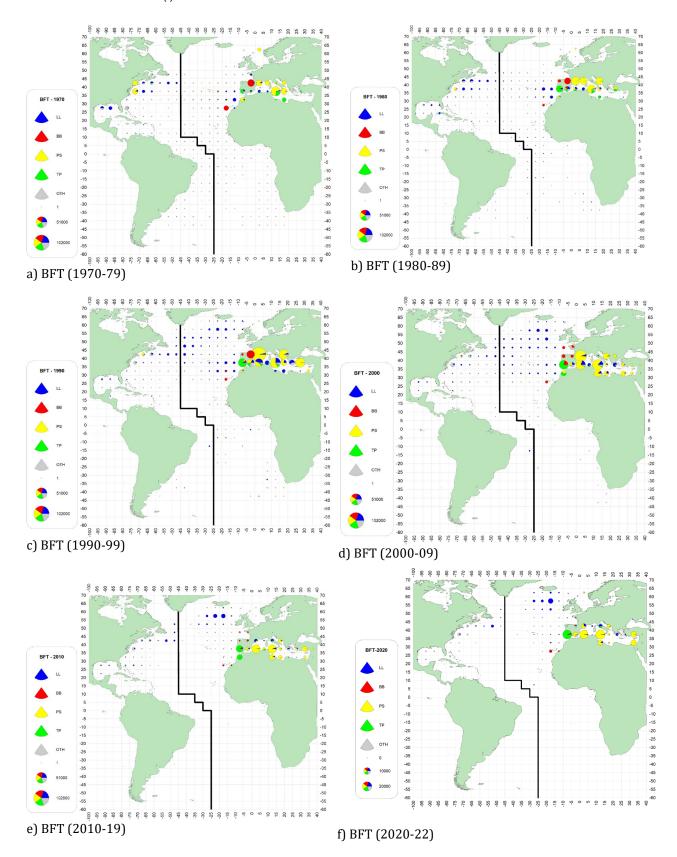
³ Biomass reference points to determine stock status were not estimated since the 2017 assessment due to uncertainty in recruitment potential.

^{*} As of September 2024.

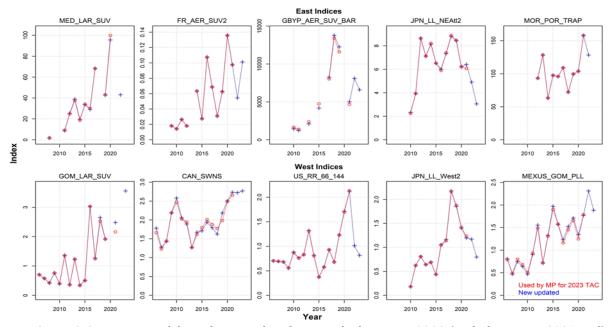
BFT-Table 1. Estimated catches (t) of northern bluefin tuna (*Thunnus thynnus*) by area, gear, and flag.

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		NCC Chinese NCO Favos Isl ICCAT(NEI (File Soyled) CP A Baria Algoria China File EU-Cros EU-Cros EU-Pran EU-Fran EU-Gree EU-Fran EU-Gree EU-Pran	Taipei 20 (RMA) 0 (RMA) 0 (RMA) 0 (RMA) 0 (RMA) 0 (RMA) 1 (RMA	0 189 0 0 156 137 1220 10 4607 9604 1004 7026 590 313	0 0 71 0 0 638 93 1360 10 2588 9171 874 10200	0 208 0 0 829 49 1105 10 2209 8235 1217 9619	67 0 66 0 0 1674 0 906 21 2000 7122 286 4441	104 1 0 0 0 1760 20 20 970 9 31 2003 27 61.56 67 248 8 3383 36 449 3	144 304 18 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	158 0 0 0 0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 1904 0 1139 79 2512 3859 422 4981	0 0 0 0 1440 1 0 828 1 105 2353 2353 2 6471 8 389 4697	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 1489 0 825 1 2414 10200 285 4638	0 0 0 0 0 1311 0 0 834 6 132 2465 17 2670 339 32247 22267 236 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 371 10 942 805 172 1783	0 0 69 0 369 18 1064 791 2 176 1788 1	0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 40 370 0 456 22 1238 2565 195 2273 182 0	0 0 0 47 448 0 515 59 1467 3054 218 2725 212 0	0 0 0 56 1038 0 630 110 1688 3661 235 3196 261 0	0 0 0 100 1300 0 738 133 2706 4360 267 3860 308	0 156 1437 0 827 151 2660 4919 313 4286 338 0	6 0 0 1688 1649 0 903 153 2774 5316 354 4731 387 0	0 2 2 0 0 0 148 1 1650 16 0 903 8 169 1 3228 27 327 4 4699 473 382 2 0 0	2 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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		MCC Charses NCO Face in Conference CP Abaria Algoria Char EU-Coo EU-Cyp EU-Exp EU-Exp EU-Haly EU-Mat EU-M	Target 20	0 189 0 0 156 137 1220 10 4807 9604 1004 7076 590 313 30 0 0 813 458	0 0 0 71 0 638 93 1360 10 2588 9171 8200 402 274 0 0 765 591	0 0 208 0 0 0 829 49 1105 10 2209 8225 1217 9619 396 37 0 0 185 410	67 0 66 0 0 1674 0 906 21 2000 7122 286 4441 409 54 0 0 361 66	104 1 0 0 0 0 1780 20 20 970 9 31 2003 27 61.56 67 248 6 3283 38 449 3 76 0 0 381 1	144 30444 30	158 0 0 0 0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 1504 0 1139 79 2512 2839 4222 4981 238 2 0 0 316	0 0 0 1440 1 0 828 1 105 2353 2 26471 8 264 0 0 0 638 700 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 1489 0 825 1 2414 10200 285 4638 334 0 0 0 466 276	0 0 0 0 1311 0 0 834 6 132 2465 13 22670 33 32 2247 22 226 3 0 0 50 80 53 335 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 371 10 942 805 172 1783 142 0 0	0 0 69 0 369 18 1064 791 2 176 1788 1 137 0 64 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 47 448 0 515 59 1467 3054 218 2725 212 0 99 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 100 1300 0 738 133 2706 4360 267 3860 308 0 181	0 156 1437 0 827 151 2660 4919 313 4286 338 0 263 0	6 0 0 168 1649 0 153 2774 5316 354 4731 387 0 122 0 0 0 0	0 2 2 0 0 0 148 1 1650 166 0 903 8 169 1 3228 27 3289 327 4 4669 47 322 0 0 327 0 0 0 0 0	0 2 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		MCC Charses NCO Face In Control ECAT' NEICH Seybell CP Abaria Algoria Char F EU-Coo EU-Cyp EU-Epp EU-Epp EU-Haly EU-Mat EU-On Egypt Icelard Japan Konea R Löyna Marc	Target 20	0 189 0 0 156 137 1220 14007 9904 1004 590 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 71 0 0 638 93 1360 10 2588 9171 874 10200 402 274 275 0 0 765 591 1388	0 0 208 0 0 829 49 1105 2209 8235 1217 9619 396 0 0 185 410 1029	67 0 66 0 0 1674 0 906 21 2000 7122 286 4441 409 54 0 0 361 66 1331 687	104 1 0 0 0 0 1780 20 20 970 9 31 2003 27 61.56 67 3283 36 449 3 76 0 0 381 1 0 1195 115	144 304 148 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	138 0 0 0 0 0 2 1 0 0 1 0 0 1 0 1 0 1 0 1 0	0 0 0 0 1504 0 0 1139 9 2512 9859 422 4981 228 2 0 0 0 316 0 752 762	0 0 0 0 1 1300 1 827	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 1489 0 825 1 12414 10200 2 24638 334 0 0 0 4666 276 6 1338 641	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 371 10 942 805 172 1783 142 0 0 0 0	0 0 69 0 369 18 1084 791 2 176 1788 1 137 0 64 0 0 77 77 756 2223	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 47 448 0 515 59 1467 218 2725 212 0 99 0 0 0 1368 350	0 0 0 0 56 1038 1038 1100 1688 233 3196 261 0 0 124 0 0 0 1631 439	0 0 0 1000 1300 0 0 738 133 2206 4360 3267 3860 388 0 181 0 0 0 1792 407	0 156 1437 0 827 151 151 2660 4919 313 4286 338 0 263 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 0 0 168 1649 0 0 903 153 354 4731 387 0 122 0 0 0 0 2228 365	0 2 2 0 0 0 0 148 1 1650 16 0 0 903 8 169 1327 4499 47 327 4 4999 47 327 0 0 0 2232 22 2410 8	0 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		NCC Charge in NCO Face in ICCAT(NET (FE) CP AB aria Alguria CD CD EU-Cyp EU-Cyp EU-Cyp EU-Fare EU-Haly EU-Mark EU-Fare EU-Haly EU-Mark EU-Fare EU-Haly EU-Mark EU-Fare EU-Haly EU-Mark EU-Fare EU-Fa	Tarpesi 20 (1994a) 10	0 189 0 0 156 137 1220 100 4607 9604 1004 7076 590 313 458 458 1540 1035 1498	0 0 0 71 0 0 0 0 638 939 1360 10 2588 9171 874 1020 274 402 274 4 0 0 0 765 591 1388 286 2850 0	0 0 208 0 0 829 49 1105 10 2209 8235 1217 9619 396 37 0 185 410 1029 335 226 0	67 0 66 0 0 1674 0 0 906 21 2000 7122 286 4441 409 54 1331 687 0 0	104 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	144 304 144 306 145 C 146 C 14	138 0 0 0 0 2 1 0 0 9 77 97 91 2215 5832 438 4438 244 0 0 0 0 688 241 0 0 0 688	0 0 0 0 1504 0 0 1139 422 512 5859 422 4981 228 2 0 0 316 0 0 752 762 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 1489 0 825 1 1 2414 1 10200 2825 4638 334 0 0 0 0 466 276 1338 641 0 50 50	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 371 10 942 805 1783 142 0 0 0 0	0 0 0 89 0 369 18 1084 791 27 176 137 0 64 0 0 77 756 223 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 477 448 0 0 5115 559 1467 3054 218 2725 212 0 99 0 0 0 1368 350 0 47	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 100 1300 0 738 133 2706 4360 267 3860 308 0 0 181 0 0 1792 407 0 66	0 156 1437 0 827 151 151 313 313 4286 338 0 263 0 0 2052 444 0 72	6 0 0 168 1649 0 903 153 2774 5316 354 4731 387 0 122 0 0 0 0 2228 365 0 79	0 2 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3	0 2 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		MCC Charse in MCC Face in ICCAT(NEI (FEE) CP Abania Algorie Chars HE EU-Cook EU-Cypy EU-Expa EU-Face	Taipei	0 189 0 0 156 137 1220 100 4807 9804 1004 2076 590 313 0 0 813 458 1540 1035 1498 0 0 1897	0 0 0 71 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 208 0 0 0 829 49 1105 10 2209 8225 1217 9619 396 37 0 0 185 410 1029 535 410 1029 535 540 540 540 540 540 540 540 54	67 0 66 0 0 1674 0 906 21 2000 7122 286 4441 409 54 0 0 361 66 1331 687 0	104 1 0 0 0 0 1780 20 20 970 9 31 2003 27 61.56 67 3283 36 449 3 76 0 0 381 1 0 1195 115	144 300 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	138 0 0 0 0 0 2 0 0 2 0 977 977 978 982 4628 4628 4628 4628 4628 0 0 0 0 390 0 0 688 421 0 0 0 0 588 421 0 0 0 0 588 421 0 0 0 588 421 0 0 0 0 588 421 0 0 0 0 588 421 0 0 0 0 588 421 0 0 0 0 0 588 421 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1504 40 0 1139 422 4981 228 2 0 0 316 0 752 762 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 1489 0 0 825 1 2414 10200 285 4638 334 0 0 0 4666 276 1338 641 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 371 10 942 172 1783 142 0 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 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 47 448 0 515 59 1467 3054 218 2725 212 0 0 0 1368 330 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 100 1300 0 738 133 2706 4360 267 3880 0 181 0 0 0 1792 407	0 156 1437 0 827 151 151 313 313 4286 338 0 263 0 0 2052 444 0 72	6 0 0 168 1649 1 0 0 903 153 316 354 4731 387 0 0 122 0 0 0 2228 365 0 0	0 2 2 0 0 0 0 148 1 1650 16 0 0 903 8 169 1 1 3228 2 2 327 4 4 382 2 0 0 0 0 2 2232 2 2 410 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 2 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		NCC Chance in NCO Face in NCO Face in ICCAT(NEI (FE) CP Abusha Abusha Abusha Abusha EU-Cym EU-Cym EU-Cym EU-Cym EU-Fara Eu-F	Target 20	0 189 0 0 156 137 120 4607 9604 1004 2076 313 0 0 0 813 1540 1035 1458 1540 1035 1498 494 494 494	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 208 0 0 829 499 1105 2209 8235 1217 9619 37 0 0 185 37 0 1029 335 410 1029 335 410	67 0 66 0 0 1674 0 906 211 2000 7122 286 4441 409 54 0 0 361 66 1331 687 0 0 1745	104 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	144 300 300 300 300 300 300 300 300 300 3	1 138 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 1504 1399 25112 3859 422 4981 228 2 0 0 316 0 752 0 0 752 0 0 0 316 344 345	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 477 4488 0 515 59 1467 3054 218 2725 0 0 0 0 1368 3300 0 477 1486 1334 0	0 0 0 0 56 1038 0 0 630 110 1688 261 0 0 124 0 0 0 1631 449 0 0 57 1783 1515 0 0	0 0 0 1000 11000 12000 0 738 133 1230 2200 6 4060 2267 3860 0 181 1 0 0 0 1792 2 102 1202 1202 1202 1 1200 0 0	0 156 1437 0 827 151 2560 4919 2650 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 0 0 1688 1649 0 903 153 153 153 16 354 4731 387 0 0 2228 0 0 0 2258 0 79 2653 2258 0 0	0 2 2 0 0 148 1 1 1650	0 2 2 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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		NCC Cleases Control Abusia Clease Cleases Clease Cleases Clease Cleases Clease	Taipei	0 189 0 0 0 156 6 137 1220 10 10 10 10 10 10 10 10 10 10 10 10 10	0 0 0 0 71 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 208 0 0 0 208 0 0 0 0 0 0 0 0 0 0 0	67 0 66 0 0 1674 0 906 21 2000 7122 286 4441 409 54 0 0 0 361 1331 687 0 0 1745 5899 106 0 0 761	104 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	144 3000 144	138 138	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 1440 1 1 8 105 1 1 1 1 1 1 1 1 1 1 1 1 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 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 13111 0 0 824 6 132 2465 17 22670 320 5 320 1 321 22670 320 5 320 1 3218 10 5 320 1 321 267 3 325 1 3218 10 5 320 1 5 320 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 0 0 371 10 942 172 172 142 0 0 0 0 0 182 0 0 0 0 182 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 477 4488 0 515 59 1467 3054 218 2725 0 0 0 0 1368 3300 0 477 1486 1334 0	0 0 0 0 56 1038 0 0 630 110 1688 261 0 0 124 0 0 0 1631 449 0 0 57 1783 1515 0 0	0 0 0 1000 120000 12000	0 156 1437 1037 1037 1037 1037 1037 1037 1037 10	6 0 0 168 1649 0 903 153 2774 3316 354 4731 0 122 0 0 0 2228 365 0 795 253 2258 0 20	0 2 2 0 0 148 1 1650 16 16 16 16 16 16 16 16 16 16 16 16 16	0 2 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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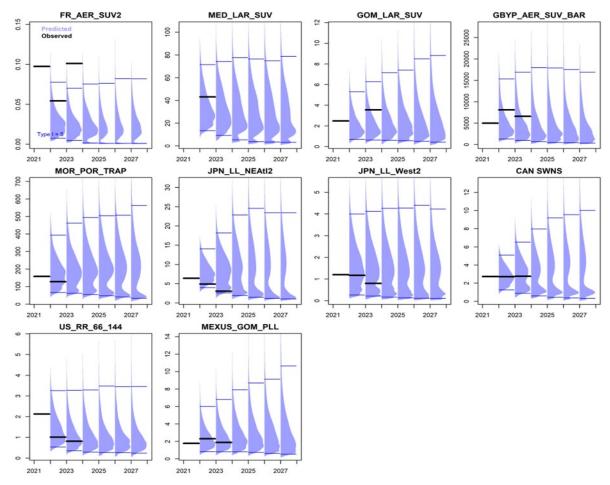
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			UK-Bernuda	0	0	1	2	2	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	.0	0	0	0	1	1	0	- 2
			UK-British Virgin Islands	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	- 3
			UK-Turks and Caicos	0	0	0	0	0	0	0	0	0	0	0	.0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	
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		NCC	Chinese Taipei	0	4	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	0	- 0	
		NCO	Argentina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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			ICCAT(RMA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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			EU-Croatia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	5	5	2	2	4	5	6	4	5	4	2	
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			AZU	83	138	171	155	110	149	176	98	174	21.8	167	131	147	100	158	204	1.90	166	206	1.99	143	22	24	10	15	6	8	28	90	2



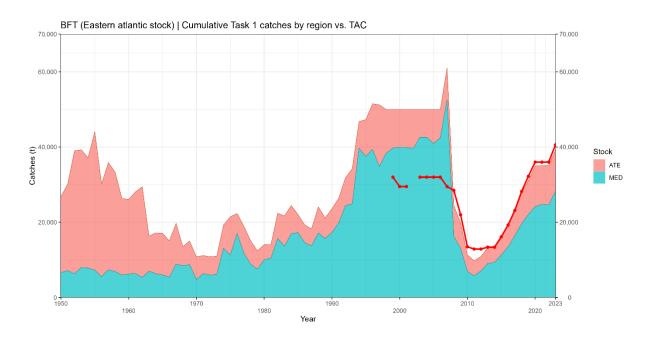
BFT-Figure 1. Geographic distribution of bluefin tuna catches per 5x5 degrees and per main gears from 1970 to 2022 (last decade only covers 3 years).

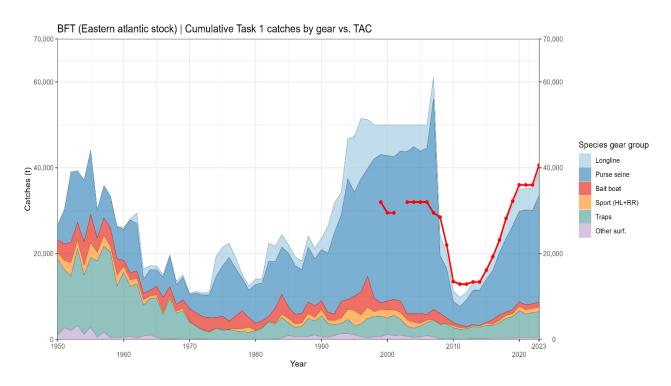


BFT-Figure 2 Comparison of the indices used in the MP calculations in 2022 (with data up to 2021, red) and the updated versions of these indices using data up to 2023 (blue). The West Mediterranean Larval survey and the Moroccan-Portugal trap data point for 2023 were not available.

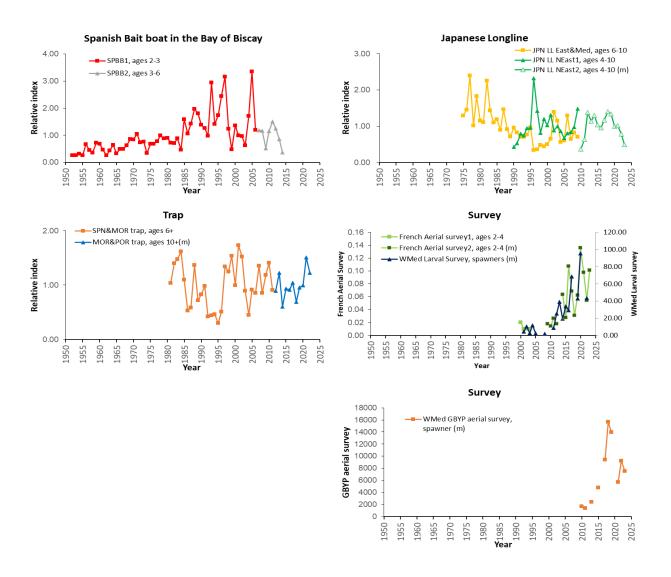


BFT-Figure 3. Plots of observed individual indices (black bars) and distribution of predicted data (blue density distribution) for the reference grid of operating models (n =2304, 48 operating models, 48 simulations each). Blue bars represent the 95% intervals. The West Mediterranean Larval survey and the Moroccan-Portugal trap index data point for 2023 were not available.

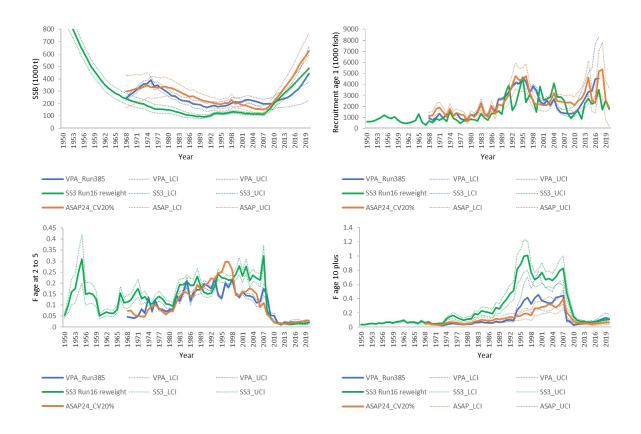




BFT-E-Figure 1. Reported catch for the East Atlantic and Mediterranean from Task 1 data from 1950 to 2023 split by main geographic areas (top panel) and by gears (bottom panel) together with unreported catch estimated by the Committee from 1998 to 2007 and TAC levels since 1998 (red dotted lines).



BFT-E-Figure 2. Plots of the updated fishery dependent and independent indicators used for the East Atlantic and Mediterranean bluefin tuna stock. All fishery dependent indicators are standardized series and scaled to their averages. Indices denoted with a 'm' are used in the management procedure. The Spanish BB series was split in two series to account for changes in selectivity patterns, and the latest series was calculated using French BB data due to the sale of the quota by the Spanish fleet. The Japanese longline CPUE for the Northeast Atlantic was split in 2009/2010 and the French aerial survey index was split in 2008/2009. The data for the western Mediterranean Larval survey have been collected but the index was not able to be updated at the time of publication. The Moroccan-Portugal index data point for 2023 reflected substantial changes in the fishing operations, hence the index data point for this year is considered unavailable under the EC protocols (Rec. 23-07).



BFT-E-Figure 3. Comparisons of the trends in estimated spawning stock biomass (SSB), recruitment (age 1), F at age 2 to 5, and F at age 10 plus group between base cases by model platform: VPA (blue lines), Stock Synthesis (green lines), and ASAP (orange lines). The time series of recruitments for the VPA have the terminal three years removed as it is standard practice not to consider these due to their estimates being unreliable.