

Antonio Di Natale *Editor*

Italian Annotated Bibliography of Tuna, Tuna-like and Billfish Species

 Springer

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2021 United Nations Decade
2030 of Ocean Science
for Sustainable Development

14 LIFE
BELOW WATER



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Editor
Antonio Di Natale
Aquastudio Research Institute
Messina, Italy

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Quotations and Aphorisms

Losing the past means missing the future.
Smarrire il passato significa perdere il futuro.

Wang Shu

Reality is formed only by memory.
La realtà non si forma che dalla memoria.

Marcel Proust, 1913, In search of lost time.

History is a true witness to the times, the light of truth, the life of memories, the master of life, the messenger of the past.

Historia vero testi temporium, lux veritatis, vita memoriae, magistra vitae, nuntia vetustatis.

Marcus Tullius Cicero, 1st century B.C., De Oratore, liber 9, 36.

We learn by such results as these, what is the kind of education that science offers to man. It teaches us to be neglectful of nothing, not to despise the small beginnings; they precede of necessity all great things.

It teaches us first by tutors and books, to learn that which is already known to others, and then by the light and methods which belong to science to learn for ourselves and for others; so making a fruitful return to man in the future for that which we have obtained from the men of the past.

Impariamo da risultati come questi, qual è il tipo di educazione che la scienza offre all'uomo. Ci insegna a non trascurare nulla, a non disprezzare i piccoli inizi; essi precedono necessariamente tutte le grandi cose.

Ci insegna prima attraverso i precettori e i libri, ad apprendere ciò che è già noto agli altri, e poi con la luce e i metodi che appartengono alla scienza ad apprendere per noi stessi e per gli altri; in questo modo si rende un fruttuoso servizio all'uomo nel futuro per ciò che si è ottenuto dagli uomini del passato.

Michael Faraday, 1858. Lecture notes.

The search for the truth is the noblest of occupations, and its publication a duty.
La ricerca della verità è la più nobile delle occupazioni e pubblicarla è un dovere.

Anne Louise Germaine de Staël, 1813. De l'Allemagne.

The search for truth is more precious than its possession.

La ricerca della verità è più preziosa del suo possesso.

Albert Einstein, 1940. The Fundamentals of Physics.

Science is organised knowledge.

La Scienza è conoscenza organizzata.

Immanuel Kant

Whoever does not read at the age of 70 will have lived only one life, his own. He who reads will have lived 5000 years.

For me, the educated man is someone who knows where to look for information at the only time in his life when he needs it.

Chi non legge a 70 anni avrà vissuto una sola vita, la propria. Chi legge, avrà vissuto 5000 anni.

Per me l'uomo colto è chi sa dove andare a cercare l'informazione nell'unico momento della sua vita in cui gli serve.

Umberto Eco

Dedication

This book is proudly dedicated to the remarkable work and memory of Mrs. Genevieve Corwin (Fig. 1), who published for the first time an annotated bibliography of the tunas in 1930.

A Bibliography of the Tunas (Corwin, 1930) (Fig. 2) was originally initiated by Mr. William Francis Thomson in 1918 (Dunn, 2001), continued by Ruth Miller Thomson and finally completed by Mrs. Genevieve Corwin in December 1929. Therefore, this very first annotated bibliography needed about 11 years of passionate work.



Fig. 1 Helen Genevieve Corwin Wheeler (1896–1973), of California Fish and Game, the author of the first annotated bibliography on tunas (1930). Courtesy of <https://www.geni.com/people/Helen-Genevieve-Corwin-Wheeler/6000000023252848854>

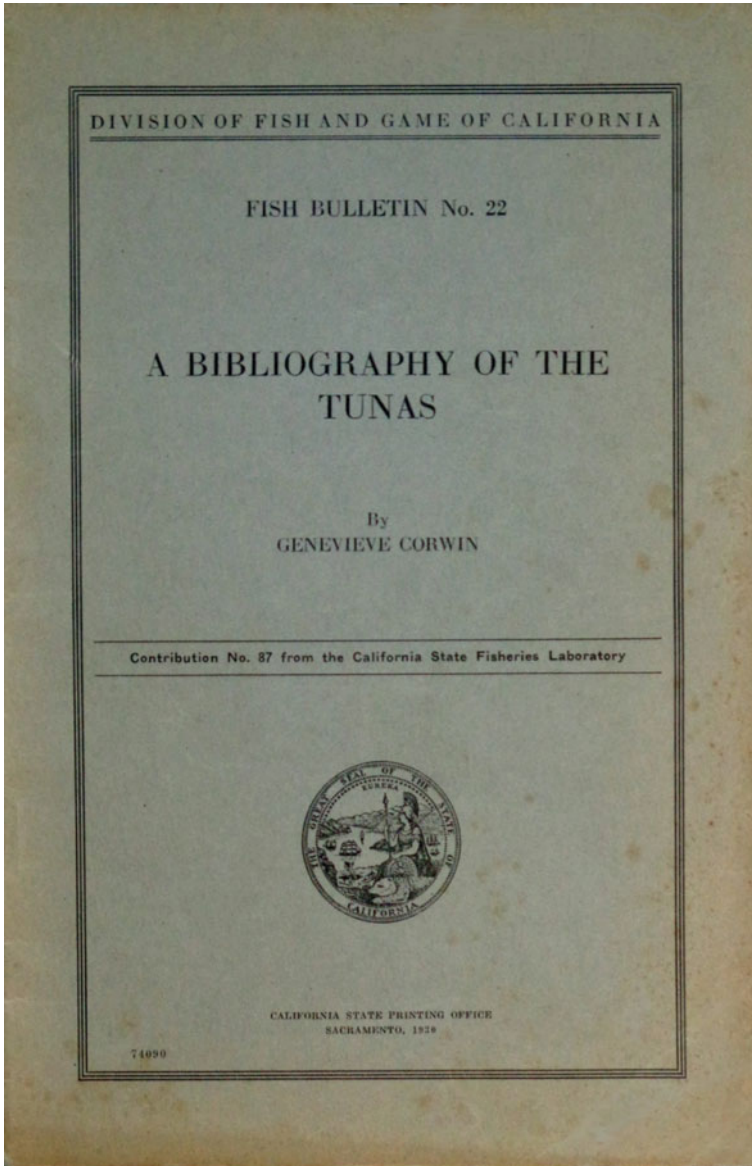


Fig.2 Original cover page of “A Bibliography of the Tunas”, by Genevieve Corwin, edited in 1930 (courtesy of A. Di Natale library)

The initial goal was to list papers from all over the world, published before the publication date of the Bibliography, dealing in any possible way with five large tunas: bluefin tuna (*Thunnus thynnus*), yellowfin tuna (*Neothunnus macropterus*, now *Thunnus albacares*), albacore tuna (*Germo alalunga*, now *Thunnus alalunga*),

skipjack tuna (*Euthynnus pelamis*, now *Katsuwonus pelamis*) and eastern Pacific bonito (*Sarda chiliensis*), but several other tuna and tuna-like species have been included as well. All the vernacular names mentioned in the various papers were also retained in the annotations.

In total, Mrs. Corwin included 883 papers, from the classic Greek and Latin authors to the modern ones up to 1929. Among these, 82 papers were related to Italian authors (9.3% of the total). The main challenge, even at that time, was the difficulty to deal with papers written in many languages, and Mrs. Corwin was very successful in this.

Mrs. Corwin annotated all the papers with many keywords, describing the main contents of each paper and reading personally the large majority of the papers included in the Bibliography, thanks to her visits to various important Libraries and many contacts with Librarians.

During her work on tunas, she became passionate about these fish and pointed out that “the mystery surrounding the life of the tunas” should find a solution someday.

Following Mrs. Corwin’s approach, Bell M. Shimada published another annotated bibliography, limited the biology of Pacific tunas, in 1951.

Wilvan G. Van Campen and Earl E. Hoven, who published another annotated bibliography on tunas in 1956,¹ covering the years between 1930 and 1953, later continued Mrs. Corwin’s work. This annotated bibliography, which took advantage of the translation of many Japanese and Chinese documents at the end of the Second World War, enlarged the range of tuna and tuna-like species, but not all genera were considered. In total, Van Campen and Hoven (1956) added a list of 682 annotated citations (and, among these, 24 were from Italian authors).

It was difficult to better identify Mrs. Corwin, because there are not so many documents or information available, but it was important for recovering the memory of a scientist who carried out an incredible work at that time, fully and very seriously documented. From her paper, the very first annotated bibliography on tunas, it was clear that the amount of work and analyses behind the text was huge, surely implying years of dedication and reading because she examined papers in many languages, including those in Latin and ancient Greek.

Finally, thanks also to the friendly support of Mr. Jon Snellstrom of the California Fish and Game Commission and to many researches on the documents available on the Web, it was possible to set up a short overview of Mrs. Corwin’s personal history.

Mrs. Genevieve Corwin was born on 27 October 1896 (although some records show 1897), in Highland, San Bernardino, California (USA) to Canadian parents

¹ The document by Van Campen and Hoven was not available until 26 October 2017, when it was released along with a bunch of other documents according to the 1992 John F. Kennedy Assassination Records Collection Act, originally hosted at the US National Archives. This paper was made available for the first time along with the list of scientific documents related to tuna species that were confiscated by the US officers in Japan and China at the end of the Second World War.

Walter Scott Corwin and Cecilia (“aka Lacencia”) Wright. Her full name was Helen Genevieve Corwin, and she appears with both names in some papers.

Even if there are no data available on the first part of her life, she presumably graduated in a branch of natural sciences, becoming a marine scientist. She made several trips abroad, including England, Quebec and Hawaii from 1925 to 1927.

Mrs. Corwin worked for the State of California, Department of Natural Resources, Division of Fish and Game between 1927 and 1930, as “Fishery Laboratory Librarian”, and she published some interesting scientific papers, mostly annotated bibliographies (i.e., on sardines and tunas). Before writing her scientific papers on fish literature, she spent many weeks (possibly months) of work at the scientific libraries in Boston, New York and Washington.

The United States Census for 1930 lists her as single, “head of the household”, but in the same year, 1930, she married Mr. Stanley Adam Wheeler of Los Angeles, and one of her last articles (A Bibliography of the Sardines) was published in 1931 using the name Genevieve Corwin Wheeler. They had two daughters, Genevieve (born in 1932) and Helen Lorraine (born in 1934).

It was impossible to find any additional information for the following years of her life.

Mrs. Genevieve Corwin Wheeler died on 17 March 1973, at the age of 76 years, in Hillside Memorial Park, Redlands, San Bernardino County, CA, United States, where she was buried.

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Prefazione

Non conosciamo quasi nulla del mare. Comunque, il mare è quasi tutto e alcuni erroneamente pensano di conoscerlo molto bene. Il mare copre circa il 71% della superficie del nostro pianeta, ma si suppone che si conosca solo l'8% degli organismi che lo abitano. Quindi, non possiamo permetterci di dimenticare anche una piccolissima parte di quel che conosciamo.

La scelta di dedicare un tempo considerevole (circa dieci anni) per migliorare la disponibilità di risorse scientifiche in relazione ad alcune specie di grandi pelagici è stata indotta dal fatto che queste specie rivestono un altissimo interesse culturale per gli scienziati che si occupano di mare e per le conoscenze sulla storia del Mediterraneo.

È molto noto che il tonno rosso, una specie certamente iconica, fosse una fonte di cibo molto importante sin da antichi tempi storici per gli abitanti del Mediterraneo. Le famose tonnare sono la più antica industria dell'umanità e il tonno salato è stato il cibo tradizionale delle legioni romane. La pesca del tonno rosso è una tradizione mediterranea che ha attraversato i secoli e questa specie è una componente abituale della famosa dieta mediterranea. Il tonno rosso è stato oggetto di una pesante sovrapesca negli anni '90, quando divenne il pesce più esportato verso il mercato giapponese, ma ha anche mostrato un inaspettato e velocissimo recupero dello stock dopo l'adozione delle dure e serie misure di gestione da parte dell'ICCAT. Quindi, il tonno rosso è stato certamente una delle specie alla quale abbiamo dedicato una elevata attenzione e sforzi particolari, tanto da mettere insieme una bibliografia molto numerosa.

L'altra specie è il pesce spada, un pesce che, dai più remoti tempi classici, ha ispirato curiosità a causa della sua forma e delle sue abitudini. È pescato con l'arpione sin dai tempi antichi, ed è una delle specie più pregiate per scopi alimentari nella tradizione mediterranea. La bibliografia italiana su questa specie è rilevante, mentre le varie specie di Istiophoridi sono meno documentate.

L'alalunga è un'altra specie pescata da sempre anche nel Mediterraneo, ma spesso è stata confusa con il tonno rosso nei vecchi testi e per questo mancano molti riferimenti storici.

I piccoli tinnidi sono, da sempre, alimento abituale per le comunità costiere, normalmente usati proprio per sussistenza. Alcune specie sono più facili da

ritrovare nei vecchi testi, talvolta per via delle loro caratteristiche, mentre altre sono spesso descritte meno chiaramente.

I tunnidi tropicali hanno una bibliografia molto più recente, negli ultimi due secoli, in relazione al loro commercio connesso alle industrie tonniere di inscatolamento.

Quindi, la bibliografia annotata italiana inclusa in questo volume comprende questo ampio spettro di specie.

Il metodo scientifico normalmente comporta l'avvantaggiarsi di tutti gli studi fatti precedentemente sullo stesso soggetto che è l'oggetto di una certa attività di ricerca. Per farlo compiutamente, è necessario accedere a quegli studi o almeno avere l'opportunità di conoscerli e cercarli nelle biblioteche o, ai tempi nostri, sul web. Questo approccio è stato certamente abituale e normale nel passato, quando il web non esisteva e tutti i ricercatori impiegavano un certo tempo nelle biblioteche, esaminando riviste scientifiche e libri in varie lingue, al fine di trovare le necessarie informazioni a supporto della propria ricerca.

Negli ultimi decenni, dopo la diffusione del web, almeno una generazione di ricercatori ha in gran parte intrapreso altri approcci. In molti casi, il loro approccio mostra chiari limiti culturali, dato che si limitano a consultare i titoli disponibili sul web e possibilmente solo quelli in inglese o nella loro lingua nazionale. Inoltre, diverse riviste scientifiche chiedono ai ricercatori di citare solo articoli "peer-reviewed". Questi due fatti, congiuntamente ad altre situazioni meno etiche, stanno lentamente creando una situazione molto strana e inaccettabile, dato che ricercatori moderni stanno dimenticando una parte molto importante delle conoscenze scientifiche e culturali già disponibili, talvolta riscoprendo qualcosa già scoperto o conosciuto da decenni o anche secoli.

Questo è un problema molto serio e generalizzato, che è da anni l'argomento di molte discussioni tra scienziati di una certa età in tutti i Paesi, che ovviamente necessitano di approfondimenti ad altri livelli.

Cercando di aiutare a trovare soluzioni positive e consci che il linguaggio sia spesso un problema aggiuntivo per comprendere i contenuti di lavori o libri che non siano stati scritti in uno dei linguaggi più diffusi, è stato deciso di condurre un lavoro difficile in uno dei settori delle scienze marine dove c'è un importante interesse internazionale e dove i ricercatori italiani hanno una delle più antiche tradizioni, cioè le specie che appartengono ai tunnidi, agli Istioforidi e il pesce spada.

È un fatto molto noto che gli autori classici che scrissero libri sugli animali marini e sui grandi pelagici in particolare fossero Greci e Latini, quindi è stata una decisione molto semplice iniziare a recuperare le conoscenze esistenti iniziando dalle più antiche radici della bibliografia.

Al contrario, cercare i lavori, libri e documenti scritti da ricercatori italiani nei secoli non è stato per nulla facile e ha richiesto una forte dedizione, difficili sforzi e molti anni di serio impegno. È stato necessario esplorare le più importanti biblioteche, incluse alcune private, ma anche il web, tenendo presente che

molti vecchi lavori non sono ancora disponibili sul web. Di conseguenza, è stato necessario contattare molti ricercatori per richiedere dettagli e copie.

Anche stabilire le metodologie per questo impegno non è stato facile. Uno dei primi problemi è stata proprio la definizione di “italiano”. C'erano diverse opzioni: ovviamente la prima era quella di identificare come italiani tutti quegli autori che avessero la cittadinanza o la nazionalità italiana dopo l'Unità d'Italia nel 1861. Ma usando esclusivamente questo approccio, si sarebbero automaticamente esclusi tutti gli autori classici e i tanti attivi sin dal XVI secolo e, di conseguenza, ciò era inaccettabile. Alla fine, è stato deciso un approccio complesso, che comprendesse le origini geografiche (una sorta di *ius soli*) e, quando possibile, anche la nazionalità o la cittadinanza italiana.

Ma si sono incontrate molte difficoltà inattese quando si è dovuta identificare la nazionalità o la cittadinanza. Di fatto, autori con nomi italiani sono risultati essere cittadini stranieri (soprattutto francesi), mentre alcuni autori con nomi chiaramente di origini straniere sono risultati essere di nazionalità italiana o cittadini italiani. È stata una sfida, che ha richiesto molte e difficili attività investigative.

Inoltre, alcuni nomi di autori risultavano scritti in modo diverso nei vari lavori, aumentando le difficoltà per definire la grafia più corretta e talvolta un problema simile si è riscontrato in diverse citazioni, ma relativamente alla data effettiva di pubblicazione. Un problema ulteriore è stato qualche volta causato da autori diversi che avevano lo stesso cognome e la stessa iniziale del nome e si è dovuto trovare un sistema idoneo per le citazioni e gli elenchi.

L'altra decisione metodologica è stata quella di utilizzare il titolo originale di ogni lavoro o documento, nel linguaggio originale, senza aggiungere alcuna traduzione. Di fatto, molti autori italiani hanno scritto i propri lavori in italiano, perché questo era il solo linguaggio consentito durante l'era fascista, mentre era ed è il linguaggio utilizzato per redigere rapporti connessi a incarichi nazionali o a opportunità di finanziamento nazionali. Il Latino è stato usato in tempi classici ma anche, in alcuni casi, in tempi più recenti da alcuni autori. Il francese era il linguaggio spesso usato da famiglie nobili o ricche e dai diplomatici, soprattutto nel XVIII e XIX secolo, ma era anche la lingua più usata dai ricercatori che partecipavano alla Commissione per l'Esplorazione Scientifica del Mediterraneo (CIESM). L'inglese è stato usato prevalentemente dopo gli anni '70, grazie ai tanti lavori condotti a livello internazionale. Altre lingue sono state usate meno frequentemente. Di conseguenza, la decisione di annotare tutte le citazioni bibliografiche con parole chiave in inglese è stata molto facile, perché questo consente a tutti i ricercatori di comprendere i contenuti di ogni lavoro, documento o libro indipendentemente dal linguaggio utilizzato in origine. Le opportunità fornite dai sistemi di ricerca elettronica renderanno ancora più utile questo approccio.

È stato anche deciso di riportare sempre il nome scientifico più aggiornato per ogni specie citata, il nome comune ufficiale ed il codice identificativo FAO, ma

sono stati inclusi anche i vecchi nomi o i sinonimi quando essi erano utilizzati nel lavoro originale.

Il risultato di questo grande sforzo è una sorta di *unicum*, una grande collezione di titoli annotati per specie diverse o per gruppi di specie, tutti scritti da autori italiani nei secoli.

	Opere	Autori	Lavori originali
<i>Thunnus thynnus</i> , tonno rosso, BFT	2421	1808	2387
<i>Thunnus alalunga</i> , alalunga, ALB	378	432	47
Piccoli tinnidi, SMT	394	487	70
Tinnidi tropicali, TRO	88	146	54
<i>Xiphias gladius</i> , pesce spada, SWO	916	904	491
Istioforidi, BIL	175	228	28
TOTALE	4372	4005	3077

In realtà, il numero totale di lavori originali da considerare è 3.077, perchè diversi lavori riguardano più di una specie e, quindi, i 4.372 titoli sono relativi al totale delle opere annotate in ogni bibliografia. Lo stesso approccio chiarisce come il numero degli autori inclusi nelle bibliografie sia 2.192, perchè molti autori hanno scritto su diverse specie. Appena 22 autori hanno scritto su tutte le specie considerate.

Inoltre, è stato deciso di includere anche liste separate per le risorse elettroniche o audio-visive per le due specie principali (tonno rosso e pesce spada).

	Titoli	Autori
<i>Thunnus thynnus</i> , tonno rosso, BFT	163	99
<i>Xiphias gladius</i> , pesce spada, SWO	47	39
TOTALE	210	138

Anche in questo caso, il numero totale delle risorse elettroniche e audio-visive originali da considerare è in effetti 196, perchè alcune riguardano entrambe le specie. Lo stesso approccio utilizzato per gli autori mostra un totale di 120, perchè alcuni hanno trattato entrambe le specie.

Quindi, questo volume include un totale di 4.582 riferimenti bibliografici annotati, considerando tutte le specie e ogni tipo di differente supporto, prodotte da 2.312 autori.

Un lavoro simile non era mai stato prodotto sinora: ci sono solo alcuni esempi nel passato, soprattutto per i tinnidi, ma è effettivamente la prima volta che questo tipo di impegno sia stato fatto in Europa per tante specie, coprendo la più numerosa produzione scientifica per queste specie per un arco di secoli così ampio. La quantità di titoli inclusi in questa bibliografia annotata è più del doppio del numero

totale dei titoli pubblicati sinora nelle pochissime bibliografie annotate sin qui disponibili.

Certamente, in futuro, il prossimo passo necessario sarà quello di fornire tutti i lavori, documenti o libri in pdf, per rendere disponibili a chiunque i documenti nella loro interezza, ma questo sarà un compito molto difficile, sia per i tanti limiti legali relativi alla proprietà intellettuale o ai diritti editoriali, ma anche per il tempo che sarà necessario e per i costi rilevanti.

Noi siamo molto orgogliosi di fornire ai ricercatori e agli studiosi questa importante quantità di opere italiane sui tunnidi, gli Istioforidi e il pesce spada, perché questo grande lavoro è stato fatto proprio con l'intenzione di produrre un servizio che possa aiutare tutti.

Antonio Di Natale

Introduction

We know almost nothing about the sea. However, the sea is almost everything and some people wrongly believe that they know it very well.

The sea covers about 71% of the surface of our planet, but it is assumed that we only know about 8% of the organisms that inhabit it.

Therefore, we cannot afford to pretend to forget even a small part of what we already know.

The choice to dedicate a considerable effort (about 10 years) to improving the availability of scientific resources on some large pelagic species was driven by the fact that all these species have a very high cultural interest for the marine scientists and for the knowledge of the Mediterranean history.

It is very well known that the Atlantic bluefin tuna, a real iconic fish species, was an important food source since very ancient historical times for the Mediterranean inhabitants. The tuna traps are undoubtedly the most ancient industry of humankind, and salted tuna was the usual food supply for the Roman legions. The Atlantic bluefin tuna fishery is a Mediterranean tradition crossing many centuries. This species is a usual component of the famous Mediterranean diet. The Atlantic bluefin tuna faced serious overfishing in the '90s, when it became the most exported fish to the Japanese market, and showed an unexpected fast recovery of the stock after the adoption of strict and serious management measures by ICCAT. Therefore, surely the Atlantic bluefin tuna is one of the species to which we dedicated a lot of effort, finding an extremely rich bibliography.

The other one is the swordfish, a fish that inspired curiosity for its shape and behaviour since classic times, fished by harpoon since ancient times, one of the most valuable seafood, at least in the Mediterranean tradition. The Italian bibliography on this species is conspicuous, while the other billfish species are less documented.

The albacore tuna is another species fished since ever, including in the Mediterranean, but often confused with Atlantic bluefin tuna in old times, therefore missing ancient historical references.

The small tunas are, since ever, usual seafood for the coastal communities, often used for subsistence. Some of them were easier to be tracked in old papers and books, thanks to their characteristics, while others are less clearly described.

The tropical tunas have mostly a more recent bibliography, in the nineteenth and the twentieth century, linked to their trade and use in the tuna canning industry.

Therefore, the Italian annotated bibliography included in this volume covered all of this huge range of species.

The scientific method usually implies taking advantage also of all previous studies on the subject that is the object of a certain research activity. To do this properly, it is necessary to have access to these studies or at the least to have the opportunity to know them and search for the different studies in libraries or, nowadays, on the Web. This approach was very usual and normal in the past, when the Web did not exist, and all researchers had to spend a certain amount of time in libraries, checking scientific journals and books in various languages for finding the necessary background information for their research.

In the last decades, after the Web diffusion, at least one generation of researchers is mostly working in a different way. In many cases, their approach is culturally limited, restricted to the titles available on the Web and possibly just the ones in English or in their national language. Furthermore, several scientific journals ask the researchers to cite only peer-reviewed articles. These two facts, together with other less ethical issues, are now slowly creating a very strange and unacceptable situation, where modern scientists are forgetting an important part of the scientific and cultural knowledge and heritage previously available, sometimes rediscovering something already discovered or known since decades or even centuries.

This very serious and general problem, which is the argument of many discussions since years among senior scientists from all countries, obviously needs to be examined in depth at other levels.

In order to find positive solutions and being aware that the language is quite often an additional problem for understanding the contents of scientific papers and books, in particular for those languages that are not not much used, it was decided to carry out a meticulous work in a branch of the Marine Sciences where there is significant international interest and where Italian scientists have one of the most ancient traditions: the tuna, tuna-like and billfish species.

It is a well-known fact that many of the classical authors who wrote books on marine animals and particularly on the large pelagics were Greeks and Latins, therefore it was an easy decision trying to recover the already existing knowledge starting from the very ancient roots of the bibliography.

On the contrary, searching for the papers, books and documents published by the Italian scientists over the centuries was not at all an easy work, and it required strong dedication, difficult efforts and many years of serious engagement. It was necessary to explore not only the most important libraries, including some private ones, but also the Web, taking into account that most of the old papers are still not available on it. Therefore, it was also necessary to contact many researchers for requesting details and copies.

Setting the methodology for this task was not easy. The first issue was exactly the definition of "Italian". There were several options, the main being identifying as Italians all authors having Italian citizenship or nationality after the unification of the past Italian kingdom in 1861. However, using only this approach would have automatically excluded all classical authors and the many active since the sixteenth century, thus becoming unacceptable. Finally, it was decided to adopt a mix of geographical origin (a sort of *ius soli*) and, when it was possible, Italian citizenship or nationality. The geographical area considered was the current Italian territory and this was an easy setting.

Many unexpected difficulties arose when it was necessary to define citizenship or nationality. In fact, authors with Italian names turned out to be foreign citizens (mostly French), while some authors with clearly foreign names had Italian citizenship or nationality. It was a challenge, requiring many and not easy investigations.

Some authors' names were written in different manners, increasing the difficulties for identifying the most correct ones, and the same problems were found in some references about the true publication date. A further problem was sometimes caused by different authors having the same surname and first name initial, and therefore a suitable system had to be devised for citations and lists.

The other methodological decision was to use only the original title of each reference, in the original language, without adding any translation. As a matter of fact, many Italian authors wrote their papers, books or reports in Italian, because this was the only allowed language during the fascist times, while it was and is still the language used for producing official reports linked to national official duties or domestic funding opportunities. Latin was used not only in classical times but also, in some cases, in more recent times by certain authors. French was not only the language often used by nobles and rich families or diplomats, particularly in the eighteenth and the nineteenth century, but it was also the language used by scientists participating in the International Commission for the Scientific Exploration of the Mediterranean. English was used mainly since the '70s, thanks to the many works carried out at the international level. Other languages were less used. Therefore, it was an easy decision to annotate all bibliographic references with keywords in English, allowing all scientists to understand the contents of each paper, document or book independently from its original language. The opportunities provided by electronic searching will further enhance this approach.

It was decided to report always the latest accepted scientific name for each species, the official common name and the FAO code, but older names and synonyms were also included when they were used in the original work.

The result of this huge effort is a sort of *unicum*, a large collection of annotated titles for different species or species groups, all written by Italian authors over the centuries:

	Titles	Authors	Original papers
<i>Thunnus thynnus</i> , Atlantic bluefin tuna, BFT	2421	1808	2387
<i>Thunnus alalunga</i> , albacore tuna, ALB	378	432	47
Small tunas, SMT	394	487	70
Tropical tunas, TRO	88	146	54
<i>Xiphias gladius</i> , swordfish, SWO	916	904	491
Billfishes and spearfishes, BIL	175	228	28
TOTAL	4372	4005	3077

In reality, the total number of original papers to be considered is 3,077, because several papers were dealing with more than one species and, therefore, the 4,372 titles are related to the sum of annotated citations in each bibliography. The same approach reveals that the total number of Italian authors included in the bibliographies is 2,192, because many authors wrote about several species. Only 22 authors wrote about all species groups considered.

In addition, it was decided to include also separated lists of electronic and audio-visual resources for the two main species (Atlantic bluefin tuna and swordfish):

	Titles	Authors
<i>Thunnus thynnus</i> , Atlantic bluefin tuna, BFT	163	99
<i>Xiphias gladius</i> , swordfish, SWO	47	39
TOTAL	210	138

Even in this case, the total number of original electronic and audio-visual resources to be considered is 196, because some are dealing with both species. The same approach used for the authors reveals a total of 120, because some were dealing with both species.

Therefore, this book includes 4,582 annotated references in total, considering all species and all types of different supports, produced by 2,312 authors.

A work like this was never done before: there are just a few examples in the past, mostly for the tuna species, but it is really the very first time that this effort is done in Europe for so many species, covering the most numerous scientific production for these species over a so large range of centuries. The amount of titles included in this annotated bibliography is more than double the total number of titles published so far in the few annotated bibliographies that are available.

Surely, in future, a next necessary step will be providing all papers, documents or books in PDF, for making the full documents available to everybody, but this will not be a simple duty, because of the various constraints linked to intellectual or editors' rights, to the time required and to the huge cost.

We are very proud to provide this important amount of Italian references on tunas, tuna-like and billfish species to all scientists and researchers, because this huge work was done for helping and serving them.

Antonio Di Natale

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Comprehensive Italian Annotated Bibliography on Atlantic Bluefin Tuna (*Thunnus thynnus*, Linnaeus, 1758)

Antonio Di Natale, Corrado Piccinetti, Piero Addis, Fulvio Garibaldi, and Fausto Tinti



A. Di Natale (✉)

Aquastudio Research Institute, Via Trapani 6, 98121 Messina, Italy
e-mail: adinatale@acquariodigenova.it

C. Piccinetti

Laboratorio di Biologia Marina e Pesca, University of Bologna in Fano, Viale Adriatico 1, 61032 Fano, PU, Italy
e-mail: corrado.piccinetti@unibo.it

P. Addis

Dipartimento di Scienze Della Vita e dell' Ambiente, University of Cagliari, Via Fiorelli 1, 09126 Cagliari, Italy
e-mail: addisp@unica.it

F. Garibaldi

Laboratory of Fish and Fishery Biology, Department of Earth, Environment and Life Sciences (DISTAV), University of Genova, Palazzo delle Scienze, Corso Europa 26, 16132 Genova, Italy
e-mail: fulvio.garibaldi@unige.it

Abstract

The Italian scientists have a long tradition of studies and research on Atlantic bluefin tuna (*Thunnus thynnus*). This species is certainly one of the most important and iconic for the Italian fishery since old historical times, mentioned in many ancient books. This paper lists together the many papers published so far by Italian scientists, concerning the biology of this species, the fisheries and many other scientific and cultural issues. The aim is to provide a comprehensive annotated bibliography, with specific keywords in English, for making available all these documents independently from the original language of the text. So far, we found 2421 papers on bluefin tuna but the bibliography is surely incomplete, because of the many papers published over the centuries in many places and on different supports. We also included additional 163 titles concerning electronic or audio-visual documents, also annotated with keywords in English. This important bibliography, updated till 2020, was set together to serve the scientists and to help them in finding some rare references that might be useful for their work.

Keywords

Analytical techniques • Anthropology • Archaeology • Atlantic bluefin tuna • Audio-visual resources • Bibliography • Biology • Catches • Contaminants • Culture • Economy • Electronic documents • Ethnography • Feeding • Fisheries • Fishing techniques • Gillnet fishery • History • Laws • Line fishery • Long-line fishery • Media • Migrations • Nomenclature • Populations • Privileges • Purse-seine fishery • Recreational fishery • Reproduction • Rules • Stocks • Systematics • Technology • *Thunnus thynnus* • Traditions • Trap fishery

1 Foreword

The Atlantic bluefin tuna (*Thunnus thynnus*, L., 1758) (FAO and ICCAT code: BFT) is possibly one of the most typical and iconic fish species for many European and Atlantic countries, particularly the Mediterranean ones. This species is fished since ancient historical times, at least from about 7,000 years B.C., as documented by the rock cave painting in the Genoes' Cave (isle of Levanzo, Sicily). Even its main fishing activity, the tuna trap fishery, has ancient historical roots, being active for at least 26 centuries and representing the first industry of mankind

F. Tinti

Department of Biological Geological and Environmental Sciences, Laboratory of Genetics and Genomics of Marine Resources and Environment (GenoDREAM), University of Bologna, Via Sant'Alberto, 163, 48100 Ravenna, Italy
e-mail: fausto.tinti@unibo.it

(Di Natale, 2012a). Therefore, it has been always very essential to have the best available and already existing information when dealing with scientific, cultural or technical issues about this species and all the many different aspects of the facts and activities related to its “world”.

The development of new fisheries in all the Mediterranean Sea, the importance of the bluefin tuna as food resource since ancient times and the increasingly high value on the market have been additional elements for writing many papers and books on this species.

The International Commission for the Conservation of Atlantic Tunas (ICCAT) is the Regional Fishery Management Organisation (RFMO) that is in charge of the management of this species in the Atlantic Ocean, in the Mediterranean Sea and in the adjacent waters, currently managing it under two main different stocks (western bluefin tuna and eastern bluefin tuna), even if the biological and ecological diversity of this oceanic apex predator is much more complex, having possibly at least a third component (identified in the Slope Sea) and a mixing which is interannually and geographically variable. Several foreign researchers working on this species inexplicably suppose that the bluefin tuna is poorly documented in the Mediterranean Sea, while, on the opposite, it is the most documented area, also thanks to the ancient history of the fishery.

This perception is possibly induced by the fact that many papers concerning the bluefin tuna in the Mediterranean are written in Italian, a language that is not one of the three official languages used in ICCAT (English, French and Spanish) and possibly some scientists may have problems in understanding the contents. However, as a matter of fact, most of the modern (the last 500 years) studies on Atlantic bluefin tuna had Italian, French or Spanish authors but also Moroccan, Turkish, Greek, Tunisian or Croatian authors (other countries are less represented), even if Italian authors are clearly the large majority. Therefore, it is a sort of national proudness to provide the Italian annotated bibliography on the Atlantic bluefin tuna, published till 2020¹, annotating them with a large variety of keywords in English for improving the opportunities to detect them with an electronic searching engine.

This paper was prepared for providing an annotated overview of the Italian literature on Atlantic bluefin tuna, as comprehensive as possible. After the publication of the very first tentative of an Italian annotated bibliography on the Atlantic bluefin tuna (Di Natale *et al.*, 2019), followed by a second effort (Di Natale, 2020), it was considered necessary further explore the archives for recovering additional papers which escaped from the previous reviews.

Another reason for setting up the comprehensive annotated bibliography is because many papers are not available in electronic format. Therefore, young scientists, who are no longer used to studying and mining in traditional libraries, could be likely unable to detect the studies that have been carried out so far on

¹ Or, in few cases, published even in the first part of 2021, but submitted in 2020.

the many aspects of this species, therefore sometimes duplicating efforts and not taking into account the previous scientific findings.

The importance of an annotated species-specific bibliography is documented, beside the papers published by Di Natale et al. (2019) and Di Natale (2020), by the monumental annotated bibliography provided by Corwin (1930), later updated by van Campen and Hoven (1956), which also encompasses this species, representing a treasure of references for the Atlantic bluefin tuna. An indexed bibliography, limited to tagging, was published by Bayliff (1993).

Not-annotated literature reviews on Atlantic bluefin tuna or tunas (including this species) were provided by Cavanna (1880), De Buen (1927), Heldt (1929, 1931), Morović (1950), Collette and Nauen (1983), Mather *et al.* (1995), Pillai and Mallia (2007), Collette and Graves (2019), and, limited to the tuna trap fishery papers, by Di Natale (2012b, 2018).

2 Criteria

The bibliography on Atlantic bluefin tuna included in this work was selected when an Italian scientist was the only author of a paper or when one or more Italian scientists were among the authors of collective papers.

This was the primary criterium used for selecting the many titles, independently if they were peer-reviewed papers, books, not-peer-reviewed papers, papers presented in conferences or meetings or congresses, reports to public administrations or project reports. A secondary criterium for papers selection considered those documents directly related to the target species, even if, in some cases, the Atlantic bluefin tuna is concerned by just a part of the text.

This work implied also checking all bibliographic references listed in each paper, in a sort of a never-ending duty. However, this difficult approach allowed finding also rare local or even forgotten papers.

For the very ancient papers, it was reported the first edition that it was possibly to find, independently from the date of the original work. When vernacular names or old scientific names were used in the original paper, sometimes they were possibly listed in the annotation. The annotations required each paper to be checked in detail and this implied an additional and huge workload.

For the electronic and audio–video resources, we excluded all those that were produced for advertising purposes.

The annotations show the main subjects in the content and, as was done in the previous papers by Di Natale *et al.* (2019) and Di Natale (2020), the descriptors proposed by ASFIS (Fagetti *et al.*, 2009) have been mostly used, adding additional descriptors when necessary. As concerns the main species included in each reference, both the international common name(s) and the Latin name(s) were used.

3 Discussion

The unprecedented, large annotated list of titles that are now available, surely constitutes a very useful and unique reference list for all the scientific and cultural community working on the Atlantic bluefin tuna, and it includes also extremely rare papers or manuscripts on various subjects. The opportunities provided by the web are improving the number of available articles on this species and its related fisheries. This annotated bibliography required again an high amount of work and a careful search, because several documents were published not only by marine scientists, but also by historians, archaeologists, economists, sociologists, anthropologists, literates or journalists, making the search very wide and difficult, certainly very multidisciplinary. Even limiting the bibliography to the works where an Italian scientist was in the authorship, the number of citations that it was possible to discover so far is extremely important, being anyway conscious that the list is certainly incomplete and possibly it will never be complete. In many cases, when checking a document, it was possible to discover additional literature which was previously unavailable, transforming a part of this work as a continuous journey following an Ariadne's thread.

At the same time, during this bibliographic research, it was amazing to discover and learn so many details about this species, which was exploited since ancient historical times. Going through the various titles (and the text behind them) in the bibliography, it has been possible to find important amounts of information and data on catches, fishery and biology, historical ecology, social and economic aspects. Many papers have allowed the retrieve of various aspects related to the very ancient culture and traditions linked to this species and its fisheries, mirroring its extremely ancient historical roots, that deeply permeated the Mediterranean culture.

This work provides and lists a total of 2421² papers, (Fig. 1), mostly edited in the twentieth century, but with important contributions in the previous centuries, including historical classical times. A total of 246 papers (10.16%) were edited before the twentieth century. Ten papers were edited before the sixteenth century: the most ancient is the work of Archestratus of Gela (fourth century B.C.), followed by Apicius (second century B.C.), Plinius the Older (65 A.D.), Martialis (first century A.D.) and Solinus (258 A.D.). Even in the sixteenth century, 18 papers were dealing with the Atlantic bluefin tuna, while 21 were written in the seventeenth century and 27 in the eighteenth century. Since the eighteenth century, the descriptions were more accurate, even if the confusion with other small tunas was still possible for the juveniles. The interest in the bluefin tuna was more evident in the nineteenth century, when 170 papers included studies on this species: 34 in the first 50 years and then a remarkable increasing interest in the second part of the century, with 136 papers.

² The total number of papers was checked several times, rechecking the contents of the lists provided by Di Natale et al. (2019) and Di Natale (2020), for avoiding any possible duplication or mistake.

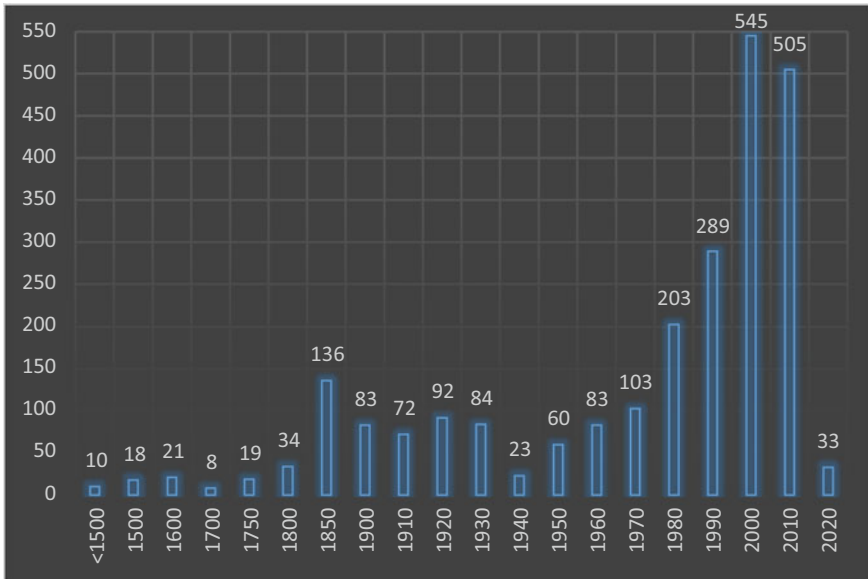


Fig. 1 Number of the papers published on Atlantic bluefin tuna by Italian authors over the years (since before 1500 to 2020)

The twentieth century was the period where many aspects of the Atlantic bluefin tuna (e.g. life-history traits, habits, behaviours and fishery) were deeply investigated, along with many other aspects, including cultural ones. In the first decade, a total of 83 papers were printed, but the scientific production was abundant and of quality even from 1910 to 1939 (72 papers in the '10s, 92 papers in the '20s and 84 papers in the '30s), mostly due to the many field activities carried out by the Institute of Zoology of the University of Messina. From 1940 to 1949, the number of papers decreased to a minimum of 23, due to the Second World War and the difficult periods in the immediate post-War. The scientific production of papers on Atlantic bluefin tuna slowly increased in the '50s (60 papers) and in the '60s (83 papers).

A remarkable increase in the Italian scientific production on the Atlantic bluefin tuna was initiated in the '80s, when the first Italian national triennial research plan was adopted by the Ministry of Merchant Marine³, followed by a series of additional triennial plans, with an Italian coordinated scientific activity on large pelagic species till the year 2002. The scientific production jumped from 103 papers in the '70s to 203 papers in the '80s and 289 papers in the '90s. Then, most of the research activities were further enhanced by the EC Data Collection Programme,

³ Now the Ministry of Agriculture, Food and Forestry Policies (MIPAAF).

followed by the EC Data Collection Framework, which is still active. It is important to consider the activation of the ICCAT GBYP since 2010. A peak of 545 papers were published in the years 2000–2009, while 505 papers and books have been published from 2010 to 2019. 33 papers have been published in 2020.

Most of the documents (1769 papers, 73.07%) are in Italian, thus causing an issue to foreign scientists in the accessibility and readability in recent times. This is due to the fact that these papers were published when the Italian language was mandatory, or when foreign languages were not used, or because they were domestic official reports. For these papers, the current annotation in English now allows all researchers to better understand the contents. The remaining 26.93% of the papers are written in other 8 languages, being those in English the majority (540 papers, 22.31%). Papers written in French were 73 (3.02%) and this is likely because the French was the language most used by the CIESM⁴. Beside this, 25 papers and books (1.03%) are in Latin, a classical language that was used by many authors till the eighteenth century and 10 papers (0.41%) are in Spanish, while the other four papers are, respectively, in German, Slovenian, Greek and Sardinian. Figure 2 provides a graphic image of the languages used in the Italian papers on the Atlantic bluefin tuna which are listed in the annotated bibliography.

The annotations allow identifying the many themes included in each paper. Table 1a, 1b, 1c and 1d show the most relevant themes included in the annotations and it is interesting to see how many aspects of the “Atlantic bluefin tuna world” have been examined by various Italian authors over the centuries.

Most of the papers are specifically related to the Mediterranean Sea (2365 papers, 97.69%), while the Atlantic Ocean is mentioned in 188 papers (7.77%) and other adjacent seas are less mentioned. Within the Mediterranean Sea and the adjacent areas, the Tyrrhenian Sea is the most mentioned (494 papers, 20.4%), the Ionian Sea is in 245 papers (10.12%), the Strait of Sicily is in 229 papers (9.46%), the Sardinian Sea is in 226 papers (9.33%), the Strait of Messina is in 153 papers (6.32%), the Adriatic Sea is in 126 papers (5.2%), the Ligurian Sea is in 112 papers (4.63%), while the other areas are less mentioned, mirroring the different distribution and relevance of the Italian bluefin tuna fishing activities but also the various interests of the Italian scientists. Figure 3 shows the different parts of the Mediterranean concerned by the various papers: it is very clear that the central Mediterranean was the most represented, followed by the western Mediterranean, the eastern Mediterranean and the Black Sea/Marmara Sea.

As concerns the countries mentioned in the papers, Italy is obviously the most mentioned (1643 papers, 67.86%), but all other Mediterranean countries are also mentioned in many papers and this is a clear sign of the international cooperation attitude of many Italian scientists investigating this species. At the regional scale, Sicily, possibly the main historical Italian fishing areas for the Atlantic bluefin tuna, is mentioned in 708 papers (29.24%), followed by Sardinia (435 papers,

⁴ CIESM: Commission Internationale pour l'Exploration Scientifique de la Mer Méditerranée or Mediterranean Science Commission.

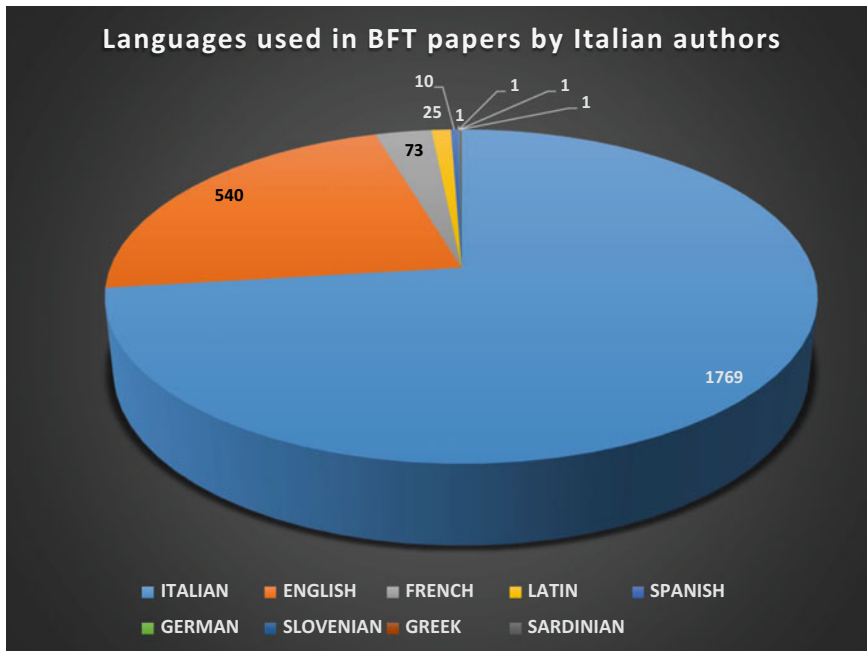


Fig. 2 Graphic proportion of the different languages used by Italian authors in papers related to Atlantic bluefin tuna

17.97%), Liguria (196 papers, 8.1%), Calabria (140 papers, 5.78%), Campania (63 papers, 2.6%) and Apulia (59 papers, 2.44%). The other Italian regions are less represented, mirroring mostly the different scientific interests in each region but also the importance of fishery (Fig. 4). It is noteworthy that 16 papers (0.66%) are related to the Atlantic bluefin tuna fishery activities carried out in the Italian colonies before the Second World War.

The fishing methods have also a clear relevance in many papers: the trap fishery is the subject of 2130 papers (87.98%), followed by the hand-line/troll fishery (356 papers, 14.7%), the purse-seine fishery (213 papers, 8.8%), the longline fishery (195 papers, 8.05%), the small-scale/artisanal fisheries (194 papers, 8.01%), the harpoon fishery (150 papers, 6.2%), the driftnet fishery (132 papers, 5.45%) and the sport/recreational fisheries (57 papers, 2.35%). Conflicts with other activities are mentioned in 23 papers (0.95%), impacts of various types are mentioned in 133 papers (5.49%), impact evaluation is mentioned in 17 papers (0.7%), along with gear impacts (10 papers, 0.41%), earthquakes impacts (4 papers, 0.17%) and pirates/corsairs/slaves (36 papers, 1.49%), all issues having a documented historical impact mostly on the tuna traps activities. The vessels are described in 111 papers (4.58%), while fleets are mentioned in 87 papers (3.59%). The spotting

Table 1a Percentages of the different themes included in the annotations to the Italian bibliography on Atlantic bluefin tuna (first part)

Annotations			Annotations		
Theme	No.	%	Theme	No.	%
Nomenclature	48	1.98	Recruitment	8	0.33
Systematics	86	3.55	Size frequencies/composition	10	0.41
Vernacular/common names	35	1.45	Age composition	14	0.58
Glossary/vocabulary/dictionary	27	1.12	Length or Length frequencies	81	3.35
Check-list/catalogue	12	0.50	Weight or weight frequencies	55	2.27
Bibliography	15	0.62	Length/weight correlation	15	0.62
Morphology	67	2.77	Length -weight/age correlation	2	0.08
Description	90	3.72	Feeding	37	1.53
Species identification	2	0.08	Diet	25	1.03
Distribution	120	4.96	Trophic/food chain	35	1.45
Migrations	245	10.12	Stomach content	18	0.74
Seasonality	50	2.07	Muscle/flesh	32	1.32
Populations	57	2.35	Blood	3	0.12
Behaviour/ethology	97	4.01	Analyses	67	2.77
Ecology	36	1.49	Histology/Cytology and related	16	0.66
Physiology	8	0.33	Genetics	92	3.80
Predation/predator	18	0.74	DNA	17	0.70
Biology	101	4.17	Genetic erosion	4	0.17
Reproductive biology	49	2.02	Microchemistry analyses	6	0.25
Sex ratio	5	0.21	Parasites	15	0.62
Reproduction	141	5.82	Contaminants	27	1.12
Sexual maturity	56	2.31	Bioaccumulation	27	1.12
Gonads	28	1.16	Heavy metals	28	1.16
Spawning/spawning season	134	5.53	Toxicity	19	0.78
Growth	74	3.06	Infection	5	0.21
Age determination/ageing	39	1.61	Bioindicators	2	0.08
Otoliths	27	1.12	Fossils	3	0.12
Dorsal rays/Spines	23	0.95	Experimental fishery	14	0.58
Scales	5	0.21	Fleets	87	3.59
Vertebrae	14	0.58	Vessels	111	4.58
Larval campaigns/surveys	23	0.95	Aerial survey/spotting/Spotters	41	1.69
Oocytes/eggs	49	2.02	Spotting towers/ <i>thynnoskopèion</i>	47	1.94
Larvae	74	3.06	Tuna fishery	124	5.12
YOY/young-of-the-year	14	0.58	Fishing gear/technology	117	4.83
Juveniles	108	4.46	Driftnets/gillnets	132	5.45

Table 1b Percentages of the different themes included in the annotations to the Italian bibliography on Atlantic bluefin tuna (second part)

Annotations			Annotations		
Theme	No.	%	Theme	No.	%
Longlines	195	8.05	Currents	28	1.16
Purse seine	213	8.80	Temperature/SST	34	1.40
Harpoon	150	6.20	Thermocline	5	0.21
Tuna traps	2130	87.98	Biodiversity	7	0.29
Hand line/Troll line	356	14.70	Pollution	34	1.40
Sport/recreational fishery	57	2.35	Conflict with other activities	23	0.95
Small-scale or artisanal fishery	194	8.01	Impact/Environmental impact	133	5.49
Fishing strategy	3	0.12	Impact evaluation	17	0.70
Technological creeping	3	0.12	Earthquake impact	4	0.17
Gear selectivity	4	0.17	Management	172	7.10
Gear conflicts	6	0.25	RFMO(s)	8	0.33
Gear impact	10	0.41	ICCAT	96	3.97
Landings	16	0.66	IUU	12	0.50
Catches/yields	515	21.27	Regulations/laws	119	4.92
By-catch	67	2.77	Minimum size	13	0.54
Fishing effort	6	0.25	Seasonal closures	17	0.70
CPUE	58	2.40	Rules	43	1.78
Moon phases/Lunar effects	4	0.17	Disputes	24	0.99
Statistics	121	5.00	Royalties	51	2.11
Data/Data recovery	149	6.15	Privileges/fishing rights	126	5.20
Stocks	41	1.69	Custom rights	15	0.62
Stock assessment	12	0.50	Church rights	34	1.40
Stock or population structure	68	2.81	Nobles/Kingdom	51	2.11
Models/modelling	22	0.91	Florio dynasty	43	1.78
GIS	2	0.08	Ruffo dynasty	3	0.12
Tagging	102	4.21	Geography	65	2.68
Conventional tags/tagging	19	0.78	Town/Villages/Settlement	101	4.17
Electronic/Satellite tags/PSAT	61	2.52	Research (project/survey)	58	2.40
Natural marks/tags	9	0.37	GBYP	66	2.73
Sampling	10	0.41	Atlantic Ocean	188	7.77
Multidisciplinary approach	4	0.17	Gulf of Mexico	18	0.74
Environment	150	6.20	Caribbean Sea	1	0.04
Climate change	41	1.69	North Sea	18	0.74
Oceanography	72	2.97	Baltic Sea	2	0.08
Tides	7	0.29	Polar Sea	3	0.12

Table 1c Percentages of the different themes included in the annotations to the Italian bibliography on Atlantic bluefin tuna (third part)

Annotations			Annotations		
Theme	No.	%	Theme	No.	%
Mediterranean Sea	2365	97.69	Portugal	14	0.58
Strait of Gibraltar	5	0.21	Slovenia	22	0.91
Alboran Sea	2	0.08	Spain	76	3.14
Balearic Sea	15	0.62	Syria	3	0.12
Gulf of Lion	3	0.12	Tunisia	49	2.02
Western Mediterranean Sea	15	0.62	Turkey	31	1.28
Sardinian Sea	226	9.33	Canada	3	0.12
Ligurian Sea	112	4.63	Japan	17	0.70
Central Mediterranean Sea	16	0.66	Mauritania	2	0.08
Strait of Sicily	229	9.46	Mexico	2	0.08
Tyrrhenian Sea	494	20.40	USA	4	0.17
Strait of Messina	153	6.32	Apulia	59	2.44
Ionian Sea	245	10.12	Basilicata	11	0.45
Adriatic Sea	126	5.20	Calabria	140	5.78
Eastern Mediterranean Sea	3	0.12	Campania	63	2.60
Levantine Sea	29	1.20	Latium	10	0.41
Aegean Sea	13	0.54	Liguria	196	8.10
Black Sea/Marmara Sea	45	1.86	Sardinia	435	17.97
Albania	6	0.25	Sicily	708	29.24
Algeria	10	0.41	Tuscany	28	1.16
Bosnia and Herzegovina	1	0.04	Colonies	16	0.66
Croatia	39	1.61	Economy	267	11.03
Cyprus	6	0.25	Crisis	38	1.57
Egypt	1	0.04	Subsides	4	0.17
France	33	1.36	Markets	116	4.79
Greece	34	1.40	Revenues/benefits	3	0.12

(continued)

Table 1c (continued)

Annotations			Annotations		
Theme	No.	%	Theme	No.	%
Israel	1	0.04	Costs	8	0.33
Italy	1643	67.86	Commerce	91	3.76
Lebanon	3	0.12	Trade	166	6.86
Libya	43	1.78	Import	51	2.11
Malta	29	1.20	Export	41	1.69
Morocco	17	0.70	Tuna domestication	6	0.25
Montenegro	6	0.25	Farming/Caging/Fattening/Rearing	224	9.25
Palestine	1	0.04	Harvesting/mattanza	109	4.50

towers and *thynnoskopèion* (characteristics of old bluefin tuna fisheries) are mentioned in 47 papers (1.94%), while the modern tool of aerial spotting/survey is mentioned in 41 papers (1.69%).

Catches and yields are obviously important (515 papers, 21.27%), including the length, weight and size frequencies (146 papers in total, 6.03%), the by-catch (67 papers, 2.77%) and the CPUE (58 papers, 2.4%). Data/data recovery is an important component (149 papers, 6.15%), along with statistics (121 papers, 5%).

All the different aspects of the Atlantic bluefin tuna natural history are present in this bibliographic collection. Migrations are reported by 245 papers (10.12%) along with the distribution (120 papers, 4.96%), while the biology is also very present (101 papers, 4.17%), and in particular the reproduction (141 papers, 5.82%), the reproductive biology (49 papers, 2.02%), sexual maturity (56 papers, 2.31%) and spawning/spawning season (134 papers, 5.53%) but also the behaviour/ethology is important (97 papers, 4.01%), along with the feeding 37 papers, 1.53%), the trophic/food chain (35 papers, 1.45%) and the stomach contents (18 papers, 0.74%). Juveniles are mentioned in 108 papers (4.46), larvae by 74 papers (3.03) and growth by 74 papers (3.06%). Genetic studies (92 papers, 3.8%) are also important, along with the heavy metals (28 papers, 1.16%), the bioaccumulation and contaminants (27 papers each, 1.12% each), the toxicity (19 papers, 0.78%), histology/cytology (16 papers, 0.66%) and the parasites (15 papers, 0.62%), while food safety/quality controls are certainly very important (42 papers, 1.73% each). Generic analyses are mentioned in 67 papers (2.77%).

The environment is a relevant theme (150 papers, 6.2%), along with the oceanography (72 papers, 2.97%), the climate change (41 papers, 1.69%), the temperature/SST and the pollution (34 papers each, 1.4% each), and the currents (28 papers, 1.16%).

The tuna industry is highly relevant being cited in 462 papers (19.08%), followed by farming/caging/fattening/rearing (224 papers, 9.25%), the canning (127 papers, 5.25%), the salted tuna/salting (63 papers, 2.6%) and the tuna harvesting/mattanza (109 papers, equal to 4.5%), but all processes are described in various papers. The economy linked to the tuna activities is obviously very important

Table 1d Percentages of the different themes included in the annotations to the Italian bibliography on Atlantic bluefin tuna (fourth part)

Annotations			Annotations		
Theme	No.	%	Theme	No.	%
Tuna Industry/Industrial fishery	462	19.08	Buildings	24	0.99
Canning/canned tuna	127	5.25	Ruins	31	1.28
Conserves in oil	39	1.61	Museum	22	0.91
Smoked products	2	0.08	History/Historical fisheries	703	29.04
Dried products	2	0.08	Zooarchaeology/Archeozoology	6	0.25
Frozen tuna	8	0.33	Archaeology	128	5.29
Tuna oil	4	0.17	Prehistory	10	0.41
Salted tuna/salting	63	2.60	Middle Ages	49	2.02
Salt plants/salt pan/saline	22	0.91	Modern Age	19	0.78
Socio-economy	28	1.16	Phoenicians	47	1.94
Social aspects	44	1.82	Greeks	33	1.36
Labour/work security/organisation	35	1.45	Romans	46	1.90
Rais	116	4.79	Arabs	26	1.07
Fishermen	363	14.99	Normans	5	0.21
Trap divers	8	0.33	Legends	27	1.12
Workers	32	1.32	Myths	23	0.95
Anthropology	92	3.80	Beliefs	13	0.54
Ethnography/Ethnology	67	2.77	Pirates/Corsairs/Slaves	36	1.49
Culture	120	4.96	Literature/literacy	11	0.45
Heritage	87	3.59	Narrative/Romance/Tales	21	0.87
Religion	47	1.94	Poetry	6	0.25
Rituals	100	4.13	Nutritional value	6	0.25
Traditions	378	15.61	Fish/flesh quality	42	1.73
Songs/Aya Mola/Cialoma/Rhythms	121	5.00	Food safety/quality controls	42	1.73
Folklore	6	0.25	Food habits	58	2.39
Iconography	20	0.83	Seafood	29	1.20
Engravings/paintings/drawings	17	0.70	<i>Garum</i>	51	2.11
Images/photos	83	3.43	Bottarga	16	0.66
Rock paintings	2	0.08	Recipes	34	1.40
Architecture	143	5.91	Cooking/gastronomy	40	1.65

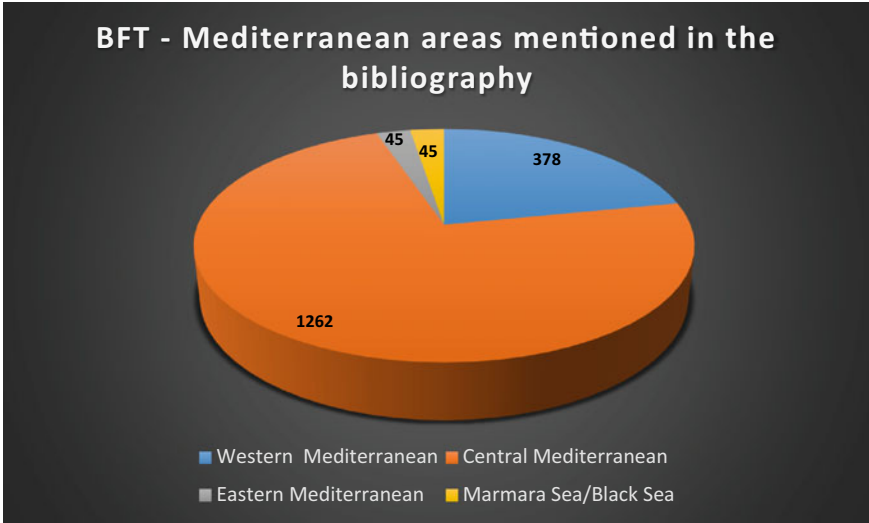


Fig. 3 Graphic proportion of the different parts of the Mediterranean Sea mentioned in the Italian annotated bibliography on Atlantic bluefin tuna

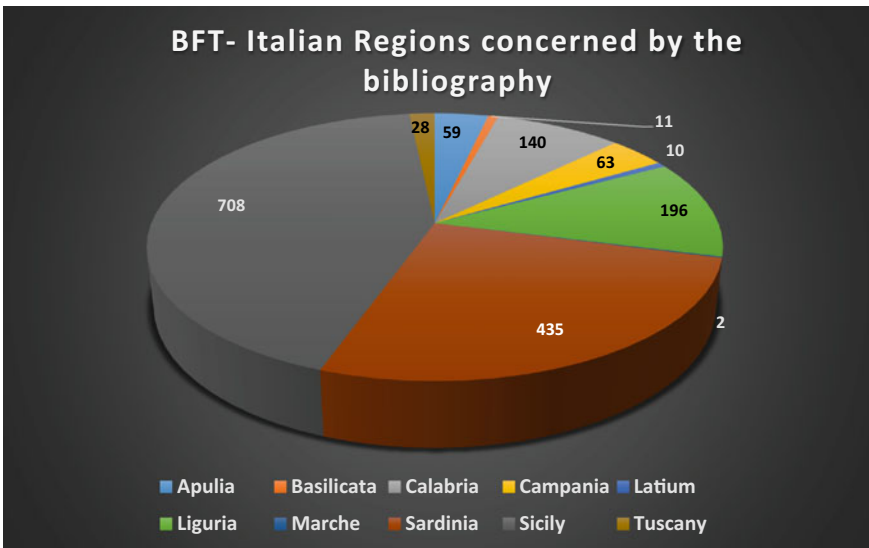


Fig. 4 Graphic proportion of the different Italian regions mentioned in the Italian annotated bibliography on Atlantic bluefin tuna

(267 papers, 11.03%), along with the trade (166 papers, 6.86%), the markets (116 papers, equal to 4.79%) and the commerce (91 papers, 3.76%), while it is important noting that 38 papers (1.57%) are describing various types of crises.

Because the highly demanding tuna industry and economy and the shared nature of this highly migratory species, management issues are frequently discussed (172 papers, 7.1%) along with regulations/laws (119 papers, 4.92%) and many other aspects. The old fisheries were regulated by privileges/fishing rights (126 papers, equal to 5.2%), royalties (51 papers, 2.11%) and Church rights (34 papers, 1.4%). Tuna fisheries were often managed by kings and nobles (51 papers, 2.11%) or dynasties (43 papers are dealing with the Florio family and 3 with the Ruffo family).

All workers engaged in the tuna fishery are mentioned in many papers: the fishermen are in 363 papers (14.99%), the Rais is in 116 papers (4.79%), the workers are in 32 papers (1.32%) and the trap divers are in 8 papers (0.33%). Labour/work security/organisation is described in 35 papers (1.45%), the social aspects in 44 papers (1.82%), while towns/villages/settlements are described in 101 papers (4.17%).

The ancient history of the tuna fishery is the motivation for many scientific disciplines and themes reported by a relevant number of papers: history in 703 papers (29.04%), along with archaeology (128 papers, 5.29%); traditions (378 papers, 15.61%), culture (120 papers, 4.96%), songs (121 papers, 5%), rituals (100 papers, 4.13%), heritage (87 papers, 3.59%), images/photos (83 papers, 3.43%) and, thanks to the typical buildings of the tuna traps, architecture (143 papers, 5.91%). Anthropology is the subject of 92 papers (3.8%), while 67 papers (2.77%) are dealing with ethnography/ethnology and 6 papers (0.25%) with zooarchaeology/archeozoology.

These ancient roots and traditions have given rise to legends (27 papers, 1.12%), myths (23 papers, 0.95%), beliefs (13 papers, 0.54%), that have fed narrative/romances/tales (21 papers, 0.87%), literature (11 papers, 0.45%) and poetry (6 papers, 0.25%). It is, anyway, a priceless cultural heritage.

Another important aspect of the Atlantic bluefin tuna fishery is linked to its story of food resource: the food habits are mentioned in 58 papers (2.4%), the famous *garum* sauce in 51 papers (2.11%), the cooking/gastronomy is described in 40 papers (1.65%), while 34 papers (1.4%) include recipes; the dried and salty female gonads, called “bottarga”, are described in 16 papers (0.66%).

Table 2 shows the ranking of the main authors included in the Italian annotated bibliography on the Atlantic bluefin tuna, over a total of 1,809 Italian authors. Based on the institutional workplace of each author, it is very clear that the main authors are belonging to the four main research centres targeting the large pelagics in Italy: Messina, Bologna-Fano, Genova and Bari. Relevant contributions have been provided by authors based in Cagliari, Palermo and Trapani, where universities and other research institutes were historically located. Among the main authors, there are the Italian national research coordinators for the large pelagics research programmes over the years (Arena, Cau, De Metrio, Piccinetti, Orsi Relini and Di Natale). The number of anonymous papers is very important, (174

Table 2 List of the main authors included in the Italian annotated bibliography on Atlantic bluefin tuna

Ranking	Author	Number of BFT papers
1	Di Natale Antonio	156
2	De Metrio Gregorio	118
3	Corriero Aldo	80
4	Piccinetti Corrado	60
5	Deflorio Michele	50
6	Addis Piero	49
7	Santamaria Nicoletta	46
8	Ravazza Ninni	45
9	Arena Pasquale	43
9	Orsi Relini Lidia	43
10	Garibaldi Fulvio	41
11	Sarà Raimondo	38
12	Cau Angelo	37
12	Tinti Fausto	37
13	Scordia Concettina	31
14	Piccinetti Manfrin Gabriella	27
15	Palandri Giovanni	25
15	Zupa Rosa	25
16	Andaloro Franco	24
16	Cariani Alessia	24
16	Mangano Antonia	24
17	Romeo Teresa	22
17	Santulli Andrea	22
18	Scaccini Andrea	21
18	Sella Massimo	21
19	Battaglia Pietro	20
19	Cataudella Stefano	20

Other Authors (between 19 and 10 papers), over a total of 1809 Italian Authors

Messina C., (18); Ferrara G., Lentini R., Marano G., Potoschi A., (17); Desantis S., Lanteri L., Relini M., Rubino S., (16); Cima C., Valastro M., (15); Focardi S., (14); Bello G., Bertolino F., Genovese Se., Mondardini Morelli G., Relini G., (13); Carnevali O., IREPA, Pignalosa P., (12); Cannas R., Celona A., Corsolini S., De Zio V., Genovese Si., Rositani L., Spedicato D., (11); Caprioli R., Cattaneo Vietti R., Doneddu G., Ninni E., Riccioni G., Sanzo L., Storelli M.M., Susca V., (10);

Various Authors (undefined)

2

Anonymous authors

174

documents, 7.19%), because the bibliography on the Atlantic bluefin tuna fishery includes many papers issued by national or local authorities, mostly for regulating and managing the activities.

Due to the high number of references, the Italian annotated bibliography on the Atlantic bluefin tuna is provided in Annex 1 to this paper.

Furthermore, additional 163 electronic or audiovisual resources on the Atlantic bluefin tuna were retrieved (Annex 2), which are very valuable for better understanding the characteristics of this ancient fisheries, such as traditions, traps that have been used in the past and those fisheries used nowadays, fishermen, Raïs, harvesting (*mattanza*), culture and other peculiar aspects.

Among these media resources, there are some historical masterpieces of the filmography, like those by Istituto Nazionale Luce (1924, 1929, 1931, 1936, 1940, 1949), or made by important film directors like the masters Francesco Alliaia di Villafranca (1947, 1948), Vittorio De Seta (1955), Folco Quilici (1968–1970a, b) and Gianfranco Bernabei (1986).

Most of the electronic or audio-visual resources are concerning the trap fishery (142 resources, 87.12%), while 11 (6.75%) are related to the recreational fishery, 4 each (2.45%) to the purse-seine fishery and the longline fishery, and 2 to the harpoon fishery. Most of the resources are related to the activities in the Egadi Islands (85 resources, 52.15%) and in Sardinia (33 resources, 20.25%).

The electronic and audiovisual resources on the Atlantic bluefin tuna were made by 98 different authors, while 48 were made by anonymous authors.

Therefore, in total, we have been able to find and annotate 2,584 Italian papers, electronic and audio-visual resources, which represent now an unprecedented and real improvement for the availability of scientific or general knowledge and cultural documents about the Atlantic bluefin tuna.

4 Conclusions

The list of annotated books and scientific papers on Atlantic bluefin tuna here provided, after the first lists provided by Di Natale *et al.* (2019) and Di Natale (2020), along with the electronic and audio-visual resources, is still certainly incomplete. We hope that this work may further stimulate scientists to provide additional titles, with the purpose to create in the future a more complete annotated reference literature list to be used by all the researchers working on this species or on related subjects all over the world, for helping them in their work. Many documents, which are currently not on the list, are still certainly kept in the private archives of the families' owners of several tuna traps, in other ancient archives, either public or private, sometimes in churches, ancient libraries, notary archives, old companies' archives and in other unknown places. Although the many valuable efforts made

also by ICCAT Atlantic-wide Research Programme for Bluefin Tuna (GBYP)⁵, it was possible to recover only a very small number of these important archives. It is almost sure that other Italian scientific papers and documents on the Atlantic bluefin tuna do exist, but it was not possible to find them during this additional effort. Even if the current bibliography includes 2,421 papers, written by 1,809 different authors and 163 electronic and audio-visual resources, made by further 99 different authors (including anonymous), we are conscious that this work has still room for improvement. Indeed, this is a never-ending work and, again, it should be conscious that this work would never be completed.

This annotated bibliography (as it was forecast by Di Natale, 2018) is also a further step towards improving the scientific tools provided by the ICCAT GBYP to all scientists of various disciplines who are studying the many fisheries and aspects concerning the Atlantic bluefin tuna.

The most traditional fishing technique for this species, the trap fishery (namely the real first industry of mankind), has a know-how that remained almost the same since centuries, with very limited technological improvements, mostly adopted in the twentieth century. These improvements are much more important whenever we look at the canning industry of the tuna fishery products: several of these improvements (the key-wind opening system for the cans, the tuna preserved in oil or in salt, etc.) are currently used, while others were recovered in recent years (i.e. the ancient technique for the *garum* sauce). The driftnet fishery, a technique that was used since historical classical times also for fishing Atlantic bluefin tunas, which had an incredible development in the second half of the twentieth century before being banned due to its impact, has also an interesting story, supported by considerable documentation for many centuries, but it was targeting almost exclusively juvenile bluefin tuna. The industrial use of purse-seiners since the '80s, linked to the farming/fattening practices from the end of the '90s, was mirroring a worldwide diffused fashion for fresh sashimi consumption. The recent developments of this fishery are very well documented in many papers listed in this bibliography, along with the problems affecting the scientific capacity for documenting and sampling the catches in real-time. The progressive development and technological creeping of the longline fishery was another factor changing the fishery of the Atlantic bluefin tuna and even this aspect is included in several papers of this bibliography. Besides the progressive reduction of the small and very specialised fleet, the very selective and historical harpoon fishery (which primarily targets swordfish, but it has both Atlantic bluefin tuna and Mediterranean spearfish as additional target species), is now suffering its limited political relevance and it is very marginally considered by the current quota system.

It is also very clear that the Atlantic bluefin tuna studies created a horizontal, transboundary culture, contaminating the local cultures in all countries with ancient

⁵ GBYP: Grand Bluefin Tuna Year Programme, officially "Atlantic-wide Research Programme for Bluefin Tuna".

traditions, songs, rituals and beliefs. The audio-visual documents are a further support for sharing this knowledge.

The many biological studies, particularly on the reproductive biology of the Atlantic bluefin tuna, are also very evident in this annotated bibliography, even if several other papers on the same subject were published by foreign scientists. Furthermore (in recent decades), several papers were published on many other peculiar scientific aspects, such as contaminant contents or population genetics/genomics, and this was made possible by advanced techniques and technologies.

As it was mentioned in the previous papers (Di Natale, 2018; Di Natale *et al.*, 2019), in recent years many scientists and particularly (but not only) young researchers are adopting a sort of selective attitude when they set-up their papers, avoiding even mentioning papers which were not published in peer-reviewed journals or by scientists who are competing with them or scientists which are not belonging to their research group. As it was already noted, this attitude is clearly causing a sort of scientific disaster, because there are several very recent papers that are not at all using the knowledge already available before, which sometimes means forgetting the largest part of the existing scientific literature.

It should be taken in mind, particularly in the case of the Atlantic bluefin tuna fishery, the opportunities scientists have had in the past to collect biological samples and to observe the catch composition. These strategic activities were carried out over the various months of the year, in many areas, in the free-access fishery until the development of the tuna farming and the enforcement of the quota regime, and they were really unique, without any further opportunities to be repeated anymore. Therefore, not considering the papers available from the authors who had these opportunities is fundamentally a non-scientific approach, which is able to create important biases both in knowledge and scientific results.

In recent papers, quite often it is possible to read observations described as “new”, when they were already available in old papers. Unfortunately, this unacceptable attitude, which is far from any good (or even normal!) scientific approach, is every year more commonly adopted (mostly for academic career reasons, for improving the impact factor and the citation index, two academic scoring factors which were theoretically reasonable, that are now resulting in several fundamental distortions in many cases, see Di Natale *et al.*, 2020): following this absurd approach (strongly recommended by many scientific editors and journals), even Pliny the older, Aristoteles, Oppianus, Linnaeus, Darwin, Mendel and all the old authors cannot be included in the bibliography of the most modern scientific papers because their works were published without any peer review! It is certainly an extreme and provocative example, but it fits well many recent situations.

Adolf (2019) published an interesting book on bluefin tuna, providing an historical overview, also including the biological knowledge and the history of the business behind the bluefin tuna trade and farming in the last two decades. The bibliography he used is huge (263 citations), but inexplicably none of the citations include any Italian author, even if many essential references were published by Italian authors on most of the subjects considered by the book. This strange approach caused some evident biases and gaps in the book's contents.

Clearly, there is a need to improve knowledge on previous available Italian studies on Atlantic bluefin tuna and this annotated review was made exactly for providing a helping hand to all the researchers and writers working on this species. This is a very important scientific and cultural heritage we have available.

Annex 1: Annotated Italian Bibliography on Atlantic Bluefin Tuna, *Thunnus thynnus* (BFT)

1. Acone F., Corriero A., Desantis S., Labate M., Labate G.M., Susca V., Santamaria N., Bridges C., Gentile R., De Metrio G., Palmieri G., 2001. Studio istologico ed immunoistochimico su ovari di tonno rosso (*Thunnus thynnus* L. 1758) in periodo pre-riproduttivo. *Biol. Mar. Medit.*, 8 (1): 796–799.
(i) Reproductive biology, ovaries, sexual maturity, histology, immunohistochemistry, tuna trap fishery, bluefin tuna, *Thunnus thynnus*, Sardinia, Italy, Sardinian Sea, Mediterranean Sea.
2. Addis P., 1998. Modellistica per la valutazione dei grossi pelagici. Relazione finale, contratto di ricerca 224 (Resp. Sc. Prof. Cau A.), Università degli Studi di Cagliari.
(i) Large pelagic species, modelling, assessment, catch data, bluefin tuna, *Thunnus thynnus*, Sardinia, Italy, Mediterranean Sea.
3. Addis P., Cau A., Deiana A.M., 1995. La pesca del tonno rosso (*Thunnus thynnus*) in Sardegna: indagine sull'attività delle tonnare dal 1825 al 1994. Riassunti XXVI Convegno SIBM, Sciacca: 64.
(i) Tuna trap fishery, data recovery, historical catches, statistics, bluefin tuna, *Thunnus thynnus*, Sardinia, Italy, Sardinian Sea, Mediterranean Sea.
4. Addis P., Cau A., Davini M.A., Secci E., Scibaldi G., 1997. Collection of tuna data catches by trap-nets in Sardinia: historical (1825–1980) and recent catches (1992–1995). *Col. Vol. Sci. Pap., ICCAT*, 46: 132–139.
(i) Trap fishery, historical data, catch statistics, yields, bluefin tuna, *Thunnus thynnus*, Sardinia, Italy, Sardinian Sea, Mediterranean Sea.
5. Addis P., Campisi S., Cuccu D., Follesa M.C., Murenu M., Sabatini A., Secci E., Cau A., 1998. La pesca del tonno, *Thunnus thynnus* (L.), in Sardegna: indagine sull'attività delle tonnare dal 1991 al 1998. *Biol. Mar. Medit.*, 5: 252–257.
(i) Trap fishery, catch statistics, standardised data, yields, bluefin tuna, *Thunnus thynnus*, Sardinia, Italy, Sardinian Sea, Mediterranean Sea.
6. Addis P., Pesci P., Locci I., Corriero A., Cau A., 2007. Body temperature of the Atlantic bluefin tuna (*Thunnus thynnus* L.), in the Western Mediterranean. Poster presentation—Second International Symposium on Tagging and Tracking Marine Fish with Electronic Devices October 8–11, 2007, Donostia-San Sebastian, Spain.
(i) Physiology, body temperature, temperature regulatory systems, *Thunnus thynnus*, Sardinia, Italy, Sardinian Sea, Mediterranean Sea.

7. Addis P., Dean J.M., Pesci P., Locci I., Cannas R., Corrias S., Cau A., 2008. Effects of local scale perturbations in the Atlantic bluefin tuna (*Thunnus thynnus* L.) trap fishery of Sardinia (W, Mediterranean). *Fisheries Research*, 92: 242–254.
 - (i) Trap fishery, environmental impact, transparency, oceanography, bluefin tuna, *Thunnus thynnus*, Sardinia, Italy, Sardinian Sea, Mediterranean Sea.
8. Addis P., Locci I., Cau A., 2009a. Anthropogenic impacts on Bluefin tuna (*Thunnus thynnus*) trap fishery of Sardinia (Western Mediterranean). *Collect. Vol. Sci. Pap., ICCAT*, 63: 174–185.
 - (i) Trap fishery, anthropogenic impact, transparency, oceanography, bluefin tuna, *Thunnus thynnus*, Sardinia, Italy, Sardinian Sea, Mediterranean Sea.
9. Addis P., Locci I., Corriero A., Cau A., 2009b. Body temperature of the Atlantic Bluefin Tuna (*Thunnus thynnus* L.) in the Western Mediterranean. In: Nielsen J.L., Arrizabalaga H., Fragoso N., Hobday A., Lutcavage M., Sibert J. (Eds.), *Tagging and Tracking of Marine Animals with Electronic Devices, Reviews: Methods and Technologies. Fish Biology and Fisheries*, 9, Springer Science + Business Media B.V.: 195–210.
 - (i) Physiology, body temperature, temperature regulatory systems, bluefin tuna, *Thunnus thynnus*, Sardinia, Italy, Sardinian Sea, Mediterranean Sea.
10. Addis P., Melis P., Cannas R., Secci M., Tinti F., Piccinetti C., Cau A., 2010. A morphometric approach for the analysis of body shape in bluefin tuna: preliminary results. *Collect. Vol. Sc. Pap., ICCAT*, 65 (3): 982–987.
 - (i) Morphology, body shape, bluefin tuna, *Thunnus thynnus*, Sardinia, Italy, Sardinian Sea, Mediterranean Sea.
11. Addis P., Secci M., Locci I., Sabatini A., Dean J.M., Cau A., 2012a. Long-term analysis (1990–2010) of the catches of bluefin tuna (*Thunnus thynnus*) from the traditional tuna trap fisheries in Sardinia. *ICCAT-GBYP Symposium on Trap Fishery for Bluefin Tuna, Tangier. Collect. Vol. Sci. Pap., ICCAT*, 67: 295–308.
 - (i) Trap fishery, catch statistics, standardised data, yields, bluefin tuna, *Thunnus thynnus*, Sardinia, Italy, Sardinian Sea, Mediterranean Sea.
12. Addis A., Secci M., Locci I., Cannas R., Greco G., Dean J.M., Cau A., 2012b. Social, cultural and basic economic analysis of the trap fishery of Sardinia: First step towards parameterization. *ICCAT-GBYP Symposium on Trap Fishery for Bluefin Tuna, Tangier. Collect. Vol. Sci. Pap., ICCAT*, 67: 380–389.
 - (i) Trap fishery, social aspects, cultural aspects, economic analysis, parametrisation, bluefin tuna, *Thunnus thynnus*, Sardinia, Italy, Sardinian Sea, Mediterranean Sea.
13. Addis P. Secci M., Locci I., Cau A., 2012c. Harvesting, handling practices and processing of bluefin tuna captured in the trap fishery: Possible effects

- on the flesh quality. ICCAT-GBYP Symposium on Trap Fishery for Bluefin Tuna, Tangier. Collect. Vol. Sci. Pap. ICCAT, 67: 390–398.
- (i) Trap fishery, harvesting, handling procedures, processing, flesh quality, bluefin tuna, *Thunnus thynnus*, Sardinia, Italy, Sardinian Sea, Mediterranean Sea.
14. Addis P., Secci M., Locci I., Cau A., Sabatini A., 2012d. Analysis of Atlantic bluefin tuna catches from the last Tonnara in the Mediterranean Sea: 1993–2010. Fisheries Research 127: 133–141.
- (i) Trap fishery, catch statistics, standardised data, yields, size frequencies, bluefin tuna, *Thunnus thynnus*, Sardinia, Italy, Sardinian Sea, Mediterranean Sea.
15. Addis P., Corrias S., Garau C. Secci M., 2013a. Physiologic responses to stress and changes in Atlantic bluefin tuna (*T. thynnus*) meat color during trap fisheries capture and processing in Sardinia (W. Mediterranean). Journal of Aquatic Food Product Technology, 22: 298–309.
- (i) Trap fishery, harvesting, handling procedures, processing, stress, flesh quality, meat color, bluefin tuna, *Thunnus thynnus*, Sardinia, Italy, Sardinian Sea, Mediterranean Sea.
16. Addis P., Secci M., Cau A., 2013b. The effect of Mistral (a strong NW wind) episodes on the occurrence and abundance of Atlantic bluefin tuna (*Thunnus thynnus*) in the trap fishery of Sardinia (W Mediterranean). Scientia Marina, 77 (3): 419–427. <https://doi.org/10.3989/scimar.03830.26B>.
- (i) Trap fishery, climatology, wind, Mistral, tuna presence, tuna abundance, bluefin tuna, *Thunnus thynnus*, Sardinia, Italy, Sardinian Sea, Mediterranean Sea.
17. Addis P., Secci M., Sabatini A., Palmas F., Culurgioni J., Pasquini V., Cau A., 2014a. Conventional tagging of bluefin tunas in the trap fishery of Sardinia (W-Mediterranean): A critical review. Collect. Vol. Sci. Pap. ICCAT, 70 (2): 585–591.
- (i) Tuna trap fishery, conventional tagging, bluefin tuna, *Thunnus thynnus*, Sardinia, Italy, Sardinian Sea, Mediterranean Sea.
18. Addis P., Secci M., Pischedda M., Laconcha U., Arrizabalaga H., 2014b. Geographic variation of body morphology of the Atlantic bluefin tuna (*Thunnus thynnus*). Journal of Applied Ichthyology, 30: 930–936. <https://doi.org/10.1111/jai.12453>.
- (i) Morphology, body shape, geographic variation, bluefin tuna, *Thunnus thynnus*, Sardinia, Italy, Sardinian Sea, Mediterranean Sea, Bay of Biscay, Atlantic Ocean.
19. Addis P., Secci M., Sabatini A., Palmas F., Cau A., Mariani A., Dell’Aquila M., Valastro M., 2016a. Electronic tagging of bluefin tuna in the trap fishery of Sardinia (W-Mediterranean). Collect. Vol. Sci. Pap., ICCAT, 72 (7): 1835–1841.
- (i) Tuna trap, satellite tagging, pop-up tags, electronic tags, bluefin tuna, *Thunnus thynnus*, Sardinia, Italy, Sardinian Sea, Mediterranean Sea.

20. Addis P., Secci M., Biancacci C., Loddo D., Cuccu D., Palmas F., Sabatini A., 2016b. Reproductive status of Atlantic bluefin tuna, *Thunnus thynnus*, during migration off the coast of Sardinia (western Mediterranean). *Fish. Res.*, 181: 137–147.
 - (i) Migrations, tuna displacements, reproductive biology, maturity status, size frequencies, gonadosomatic index, ovaries status, batch fecundity, gonad index, histological analyses, sex ratio, tuna trap fishery, bluefin tuna, *Thunnus thynnus*, Sardinia, Italy, Sardinian Sea, Mediterranean Sea.
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82. Anonymous, 1827. Collezione delle Leggi e dei Decreti Reali del Regno delle Due Sicilie, anno 1827, semestre 1. Reale Stamperia, Napoli: 141–145. <https://www.babel.hathitrust.org/cgi/pt?id=njp.32101069168761&view=1up&seq=9>.
(i) Rules, laws, regulations, catch and transport declaration, trade, Kingdom of the Two Sicilies, tuna traps, fisheries, interaction with other gears, driftnets, time closure, bluefin tuna, *Thunnus thynnus*, albacore, *Thunnus alalunga*, swordfish, *Xiphias gladius*, Campania, Basilicata, Calabria, Sicily, Italy, Tyrrhenian Sea, Ionian Sea, Strait of Sicily, Mediterranean Sea.
83. Anonymous, 1839. Collezione delle Leggi dei Reali Decreti Sovrani rescritti Regolamenti e delle Ministeriali riguardanti la Sicilia dal 1818 al 1838, ordinata in ordo cronologico con note ed osservazioni per lo Barone Rosario Ventimiglia. Stamperia all'Insegna del Leone, Catania, III: XXXII + 1–580.
(i) Rules, laws, regulations, decrees, Kingdom of the Two Sicilies, tuna traps, fisheries, interaction with other gears, conflicts between gear, driftnets, time closure, tuna minimum size, juveniles, by-catch, discards,

- tuna traps lights, surveillance, compliance, bluefin tuna, *Thunnus thynnus*, albacore, *Thunnus alalunga*, swordfish, *Xiphias gladius*, Sicily, Italy, Tyrrhenian Sea, Ionian Sea, Strait of Sicily, Mediterranean Sea.
84. Anonymous, 1850(?). Sul divieto degli ordegni da pesca denominati alelungare. Memoria dei proprietari delle tonnare di Sicilia. Palermo: 1–43.
(i) Tuna trap fishery, driftnet fishery, interference between gears, fishery impact, bluefin tuna, *Thunnus thynnus*, albacore, *Thunnus alalunga*, Sicily, Italy, Mediterranean Sea.
85. Anonymous, 1880. Pesca alla lampadara ed altre pesche speciali nel Canale di Messina. Tip. Ribera, Messina: 1–8.
(i) Light fishing, technology, hand-line fishing, small pelagic fish, juveniles, bluefin tuna, *Thunnus thynnus*, Strait of Messina, Mediterranean sea.
86. Anonymous, 1881. Atti della Commissione consultiva per la pesca. Annali dell'Industria e del Commercio, Tip. Eredi Botta, Roma, 31: 1–239.
(i) Tuna trap fishery, yields, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
87. Anonymous, 1882. Atti della Commissione consultiva per la pesca: sessione 1882. Annali dell'Industria e del Commercio, Tip. Eredi Botta, Roma: 1–104.
(i) Tuna trap fishery, yields, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
88. Anonymous, 1883a. La pesca e l'industria del Tonno in Italia ed all'estero. Tip. Angelo Ciminago, Genova: 1–120.
(i) Tuna trap fishery, trade, international trade, import, export, tuna industry, canned tuna, bluefin tuna, *Thunnus thynnus*, Italy, Spain, Tunisia, Libya, Morocco, Mediterranean Sea.
89. Anonymous, 1883b. Sul regime daziario dei tonni: risposta dei proprietari ed esercenti delle tonnare italiane alle note a sostegno delle petizioni degli Italiani esercenti l'industria dei tonni sulle coste africane e iberiche. Stab. Tip. Pellas, Genova: 1–224.
(i) Tuna trap fishery, trade, disputes, custom rights, international trade, import, export, tuna industry, canned tuna, bluefin tuna, *Thunnus thynnus*, Italy, Spain, Tunisia, Libya, Mediterranean Sea.
90. Anonymous, 1883c. Ulteriori osservazioni sopra il regime daziario dei tonni, note a sostegno delle petizioni degli Italiani esercenti l'industria dei tonni sulle coste africane e iberiche. Tip. Ricci, Firenze: 1–80.
(i) Tuna trap fishery, trade, disputes, custom rights, international trade, import, export, tuna industry, canned tuna, bluefin tuna, *Thunnus thynnus*, Italy, Spain, Tunisia, Libya, Mediterranean Sea.
91. Anonymous, 1883d. Seguito della discussione del disegno di legge: Riforma della tariffa doganale. Camera dei Deputati, Atti Parlamentari, 18 Giugno 1883: 4011–4039.
(i) Tuna trap fishery, trade, disputes, custom rights, international trade, import, export, tuna industry, canned tuna, bluefin tuna, *Thunnus thynnus*, Italy, Spain, Tunisia, Libya, Mediterranean Sea.

92. Anonymous, 1884. Atti della Commissione consultiva per la pesca: sessione 1884. *Annali di Agricoltura*, Tip. Eredi Botta, Roma, 76: 1–147.
 - (i) Tuna trap fishery, yields, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
93. Anonymous, 1885. Sulle condizioni della Marina Mercantile Italiana nel 1885. Relazione del Direttore Generale della Marina Mercantile a S.E. il Ministro della Marina. Tip. Eleviziana, Roma: VIII + 1–1043.
 - (i) Tuna trap fishery, yields, industry, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
94. Anonymous, 1886a. Atti della Commissione consultiva per la pesca: sessione 1886. *Annali di Agricoltura*, Tip. Eredi Botta, Roma, 111: 1–98.
 - (i) Tuna trap fishery, yields, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
95. Anonymous, 1886b. Sulle condizioni della Marina Mercantile Italiana al 31 Dicembre 1886. Relazione del Direttore Generale della Marina Mercantile a S.E. il Ministro della Marina. Tip. Ditta Ludovico Cecchini, Roma: 1–836.
 - (i) Tuna trap fishery, yields, industry, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
96. Anonymous 1887a. Riflessioni sul progettato aumento di dazio d'entrata del tonno sott'olio, in barili e scatole. Tip. del Giornale di Sicilia, Palermo: 1–10.
 - (i) Tuna trap fishery, trade, disputes, custom rights, international trade, import, export, tuna industry, canned tuna, bluefin tuna, *Thunnus thynnus*, Italy, Spain, Tunisia, Libya, Mediterranean Sea.
97. Anonymous, 1887b. Riflessioni sull'industria italiana della pesca del tonno e suo confezionamento in confronto a quello estero, nonchè del progettato aumento sul dazio d'importazione. Tip. Commerciale, Genova: 1–10.
 - (i) Tuna trap fishery, trade, disputes, custom rights, international trade, import, export, tuna industry, canned tuna, bluefin tuna, *Thunnus thynnus*, Italy, Spain, Tunisia, Libya, Mediterranean Sea.
98. Anonymous, 1887c. Atti della Commissione consultiva per la pesca: sessione Febbraio 1887. *Annali di Agricoltura*, Roma, Tip. Eredi Botta, Roma, 123: 1–83.
 - (i) Tuna trap fishery, yields, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
99. Anonymous, 1887d. Sulle condizioni della Marina Mercantile Italiana al 31 Dicembre 1887. Relazione del Direttore Generale della Marina Mercantile a S.E. il Ministro della Marina. (ACS⁶ - Roma).
 - (i) Tuna trap fishery, yields, industry, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
100. Anonymous, 1887e. Legislazione sulla Pesca. *Annali di Agricoltura*, 130. (ACS - Roma).

⁶ ACS: Archivio Centrale dello Stato, Roma.

- (i) Fishery, fishing regulation, laws, fishing gear, tuna trap fishery, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
101. Anonymous, 1888. Sulle condizioni della Marina Mercantile Italiana al 31 Dicembre 1888. Relazione del Direttore Generale della Marina Mercantile a S.E. il Ministro della Marina, Roma. (ACS - Roma).
- (i) Tuna trap fishery, yields, industry, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
102. Anonymous, 1889a. Atti della Commissione consultiva per la pesca: sessione Ottobre 1888. Annali di Agricoltura, Tip. Eredi Botta, Roma, 156: 1–211.
- (i) Tuna trap fishery, yields, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
103. Anonymous, 1889b. Atti della Commissione Reale sulle Tonnare. Ministero di Agricoltura, Industria e Commercio, LXXXIII, Tip. Eredi Botta, Roma: 1–510.
- (i) Tuna trap fishery, trap technology, regulation, tuna biology, tuna ecology, reproductive biology, morphology, vernacular names, trap locations, yields, catch statistics, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea, Black Sea, Atlantic Ocean.
104. Anonymous, 1889c. Sulle condizioni della Marina Mercantile Italiana al 31 Dicembre 1889. Relazione del Direttore Generale della Marina Mercantile a S.E. il Ministro della Marina. (ACS - Roma).
- (i) Tuna trap fishery, yields, industry, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
105. Anonymous, 1890. Sulle condizioni della Marina Mercantile Italiana al 31 Dicembre 1890. Relazione del Direttore Generale della Marina Mercantile a S.E. il Ministro della Marina. (ACS - Roma).
- (i) Tuna trap fishery, yields, industry, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
106. Anonymous, 1891. Sulle condizioni della Marina Mercantile Italiana al 31 Dicembre 1891. Relazione del Direttore Generale della Marina Mercantile a S.E. il Ministro della Marina. (ACS - Roma).
- (i) Tuna trap fishery, yields, industry, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
107. Anonymous, 1892a. Atti della Commissione consultiva per la pesca: sessione Luglio 1891. Annali di Agricoltura, Roma, 188. (ACS - Roma).
- (i) Tuna trap fishery, yields, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
108. Anonymous, 1892b. Sulle condizioni della Marina Mercantile Italiana al 31 Dicembre 1892. Relazione del Direttore Generale della Marina Mercantile a S.E. il Ministro della Marina. (ACS - Roma).
- (i) Tuna trap fishery, yields, industry, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.

109. Anonymous, 1893a. Atti della Commissione consultiva per la pesca: sessione Aprile 1893. *Annali di Agricoltura*, Tip. G. Bertero, Roma, 196: 1–144.
 - (i) Tuna trap fishery, yields, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
110. Anonymous, 1893b. Sulle condizioni della Marina Mercantile Italiana al 31 Dicembre 1893. Relazione del Direttore Generale della Marina Mercantile a S.E. il Ministro della Marina. (ACS - Roma).
 - (i) Tuna trap fishery, yields, industry, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
111. Anonymous, 1894. Sulle condizioni della Marina Mercantile Italiana al 31 Dicembre 1894. Relazione del Direttore Generale della Marina Mercantile a S.E. il Ministro della Marina. (ACS - Roma).
 - (i) Tuna trap fishery, yields, industry, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
112. Anonymous, 1895a. Atti della Commissione consultiva per la pesca: sessione Giugno 1895. *Annali di Agricoltura*, Tip. Nazionale G. Bertero, Roma, 207: 1–126.
 - (i) Tuna trap fishery, yields, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
113. Anonymous, 1895b. Sulle condizioni della Marina Mercantile Italiana nel 1895. Relazione del Direttore Generale della Marina Mercantile a S.E. il Ministro della Marina. Tip. Eleviziana, Roma: VIII + 1–1043.
 - (i) Tuna trap fishery, yields, industry, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
114. Anonymous, 1896a. Notizie sulle condizioni della provincia di Trapani. *Annali di Statistica*, Statistica Industriale. Ministero Agricoltura, Industria e Commercio, Roma, LXI: 1–43.
 - (i) Economy, industry, commerce, tuna trap fishery, catches, yields, bluefin tuna, *Thunnus thynnus*, Trapani, Sicily, Italy, Mediterranean Sea.
115. Anonymous, 1896b. Sulle condizioni della Marina Mercantile Italiana nel 1896. Relazione del Direttore Generale della Marina Mercantile a S.E. il Ministro della Marina. (ACS - Roma).
 - (i) Tuna trap fishery, yields, industry, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
116. Anonymous, 1897a. Statistica Industriale. Notizie sulle condizioni industriali della provincia di Messina. *Annali di Statistica*, LXII: 25–25.
 - (i) Economy, industry, commerce, tuna trap fishery, catches, yields, bluefin tuna, *Thunnus thynnus*, swordfish, *Xiphias gladius*, Messina, Sicily, Italy, Mediterranean Sea.
117. Anonymous, 1897b. Atti della Commissione consultiva per la pesca: sessione del Dicembre 1886. *Annali di Agricoltura*, Tip. Enrico Voghera, Roma, 216: 1–192.
 - (i) Tuna trap fishery, yields, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.

118. Anonymous, 1898a. Sulle condizioni della Marina Mercantile Italiana al 31 Dicembre 1897. Relazione del Direttore Generale della Marina Mercantile a S.E. il Ministro della Marina, Tip. Ditta L. Cecchini, Roma: IL + 1–646.
 - (i) Tuna trap fishery, yields, industry, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
119. Anonymous, 1898b. I proprietari delle tonnare in Sardegna e le Società minerarie. Stab. Tip. Pellas, Genova: 1–23.
 - (i) Tuna trap fishery, mines, environmental impact, conflicts, bluefin tuna, *Thunnus thynnus*, Sardinia, Italy, Sardinian Sea, Mediterranean Sea.
120. Anonymous, 1898c. La pesca in Italia, specialmente quella del tonno non a sufficienza protetta dai vigenti regolamenti doganali. Tip. Casa Editrice Italiana, Roma: 1–25.
 - (i) Tuna trap fishery, tuna industry, canning industry, custom regulations, custom taxes, import, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
121. Anonymous, 1898d. Atti della Commissione consultiva per la pesca: sessione del Maggio 1898. Annali di Agricoltura, Tip. Nazionale G. Bertero, Roma, 219: 1–178.
 - (i) Fishery, tuna trap fishery, yields, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
122. Anonymous, 1899a. Sulle condizioni della Marina Mercantile Italiana al 31 Dicembre 1898. Relazione del Direttore Generale della Marina Mercantile a S.E. il Ministro della Marina. (ACS - Roma).
 - (i) Tuna trap fishery, yields, industry, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
123. Anonymous, 1899b. Relazione sulle condizioni economiche della Provincia di Trapani, Anni 1895–1898. Camera di Commercio, Tip. Giuseppe Gervasi Modica, Trapani: 1–123.
 - (i) Economy, industry, fishery, agriculture, tuna trap fishery, yields, bluefin tuna, *Thunnus thynnus*, Trapani, Sicily, Italy, Strait of Sicily, Mediterranean Sea.
124. Anonymous, 1900a. Sulle condizioni della Marina Mercantile Italiana al 31 Dicembre 1899. Relazione del Direttore Generale della Marina Mercantile a S.E. il Ministro della Marina. (ACS - Roma)
 - (i) Tuna trap fishery, yields, industry, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
125. Anonymous, 1901a. Sulle condizioni della Marina Mercantile Italiana al 31 Dicembre 1900. Relazione del Direttore Generale della Marina Mercantile a S.E. il Ministro della Marina. (ACS - Roma).
 - (i) Tuna trap fishery, yields, industry, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
126. Anonymous, 1901b. Atti della Commissione consultiva per la pesca: sessione del Dicembre 1899. Annali di Agricoltura, Tip. Naz. G. Bertero, Roma, 228: 1–233.

- (i) Tuna trap fishery, yields, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
127. Anonymous, 1902. Sulle condizioni della Marina Mercantile Italiana al 31 Dicembre 1901. Relazione del Direttore Generale della Marina Mercantile a S.E. il Ministro della Marina. (ACS - Roma).
- (i) Tuna trap fishery, yields, industry, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
128. Anonymous, 1903a. Sulle condizioni della Marina Mercantile Italiana al 31 Dicembre 1902. Relazione del Direttore Generale della Marina Mercantile a S.E. il Ministro della Marina. (ACS - Roma).
- (i) Tuna trap fishery, yields, industry, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
129. Anonymous, 1903b. Diritto sulla Tonnara di Torremuzza. Atti della Commissione Consultiva per la Pesca. Annali di Agricoltura. Ministero Agricoltura, Industria e Commercio. Tip. Nazionale Bertero, Roma: 1–297.
- (i) Historical rights, tuna trap fishery, regulations, bluefin tuna, *Thunnus thynnus*, Torremuzza, Sicily, Italy, Tyrrhenian Sea, Mediterranean Sea.
130. Anonymous, 1903c. La Sicilia industriale, commerciale e agricola. Rivista Industriale, Commerciale e Agricola. Bontempi e Trevisani Edit., Società Tipografica Editrice Popolare, Milano: 1–423.
- (i) Industry, commerce, agriculture, enterprises, productions, products, entrepreneurs, Florio family, tuna fishery, tuna traps, tuna canning, tuna in oil, bluefin tuna, *Thunnus thynnus*, Favignana, Formiche, Santa Panagia, Trabia, Terraruzza, Avola, Marzamemi, Milazzo, Oliveri, Trapani, Castellammare del Golfo, Sicily, Italy, Tyrrhenian Sea, Ionian Sea, Strait of Sicily, Mediterranean Sea.
131. Anonymous, 1903d. Atti della Commissione consultiva per la pesca: sessione Dicembre 1899. Annali di Agricoltura, Tip. Nazionale G. Bertero, Roma, 219: 1–178.
- (i) Fishery, tuna trap fishery, yields, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
132. Anonymous, 1904a. Sulle condizioni della Marina Mercantile Italiana al 31 Dicembre 1903. Relazione del Direttore Generale della Marina Mercantile a S.E. il Ministro della Marina. (ACS - Roma).
- (i) Tuna trap fishery, yields, industry, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
133. Anonymous, 1904b. Atti della Commissione consultiva per la pesca: sessione Aprile–Maggio 1903. Annali di Agricoltura, Tip. Nazionale G. Bertero e C., Roma: 1–297.
- (i) Fishery, tuna trap fishery, yields, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
134. Anonymous, 1905a. Sulle condizioni della Marina Mercantile Italiana al 31 Dicembre 1904. Relazione del Direttore Generale della Marina Mercantile a S.E. il Ministro della Marina. (ACS - Roma).

- (i) Tuna trap fishery, yields, industry, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
135. Anonymous 1905b. Raccolta di documenti e sentenze di Tribunali comprovanti il danno che arrecano le acque torbide, e i gettiti di detriti e le variazioni del lido alla pesca del tonno nelle Tonnare di Portopaglia e Portoscuso. Tipografia Coop. Leonina, Roma: 1–72.
- (i) Tuna trap fishery, mines, environment impact, sludges, conflicts, economic damages, sentences, bluefin tuna, *Thunnus thynnus*, Portopaglia, Portoscuso, Sardinia, Italy, Sardinian Sea, Mediterranean Sea.
136. Anonymous, 1905c. Atti della Commissione consultiva per la pesca: sessione Dicembre 1904. Annali di Agricoltura, Tip. Naz. G. Bertero e C., Roma, 239: 1–317.
- (i) Fisheries, tuna trap fishery, yields, industry, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
137. Anonymous, 1905d. Legislazione vigente sulla pesca al 1 Gennaio 1905. Direzione Generale dell’Agricoltura, Ministero di Agricoltura, Industria e Commercio. Annali di Agricoltura, Tip. Naz. G. Bertero e C., Roma: 1–174.
- (i) Legislation, laws, rules, regulation, fishery, freshwater fisheries, lagoon fisheries, marine fisheries, tuna trap fishery, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
138. Anonymous, 1906a. Sulle condizioni della Marina Mercantile Italiana al 31 Dicembre 1905. Relazione del Direttore Generale della Marina Mercantile a S.E. il Ministro della Marina. (ACS - Roma).
- (i) Tuna trap fishery, yields, industry, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
139. Anonymous, 1906b. L’industria della Pesca nella Provincia di Siracusa. Camera di Commercio ed Arti, Siracusa, Premiata Tipografia del Tamburo, Siracusa: 1–17.
- (i) Industry, fair exhibit, artisanal fishery, checklist, vernacular names, fisheries, fishing gears, tuna trap fishery, gillnets, driftnets, trawl nets, beach seine, boat seine, economy, costs, bluefin tuna, *Thunnus thynnus*, albacore, alalonga, *Thunnus alalunga*, Atlantic bonito, palamita, *Sarda sarda*, Atlantic little tunny, literati, cuvariti, *Euthynnus alletteratus*, bullet tuna, sgampirri, *Auxis rochei*, swordfish, *Xiphias gladius*, Siracusa, Sicily, Italy, Ionian Sea, Mediterranean Sea.
140. Anonymous, 1906c. Gli Italiani in Tunisia. Camera di Commercio ed Arti. Imprimerie Typo-Lithographique de l’Association Ouvriere Frederic Weber, Tunis: 1–251.
- (i) Colonies, agriculture, fishery, tuna trap fishery, traditions, Rais, fishermen, bluefin tuna, *Thunnus thynnus*, Tunisia, Mediterranean Sea.
141. Anonymous, 1906d. Atti della Commissione consultiva per la pesca: sessione Dicembre 1905. Annali di Agricoltura, Tip. Naz. G. Bertero e C., Roma, 241: XIX + 1–223.
- (i) Fisheries, tuna trap fishery, yields, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.

142. Anonymous, 1906e. L'azione del Ministero a favore della pesca e dell'acquicoltura nel 1905. Direzione Generale dell'Agricoltura, Ministero di Agricoltura, Industria e Commercio. Annali di Agricoltura, Tip. Naz. G. Bertero e C., Roma: LX + 1-162.
- (i) Legislation, laws, rules, regulation, fishery, aquaculture, freshwater fisheries, lagoon fisheries, marine fisheries, subsidies, economy, tuna trap fishery, tuna industry, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
143. Anonymous, 1906f. Divieti di pesca. Pesca di mare. Riv. Mens. Pesca lacustre, Fluviale, Marina, Soc. Lombarda Pesca e Acquicoltura, Milano. VIII (1-2-3): 85-87.
- (i) Fisheries, oyster fishery, eels fishery, demersal species, tuna trap fishery, management, seasonal closure, juveniles, bluefin tuna, *Thunnus thynnus*, swordfish, *Xiphias gladius*, Sicily, Italy, Strait of Sicily, Tyrrhenian Sea, Ionian Sea, Mediterranean Sea.
144. Anonymous, 1906g. Divieti di pesca. Pesca di mare. Riv. Mens. Pesca lacustre, Fluviale, Marina, Soc. Lombarda Pesca e Acquicoltura, Milano. VIII (6-7): 203-204.
- (i) Fisheries, tuna trap fishery, management, seasonal closure, bluefin tuna, *Thunnus thynnus*, Sicily, Italy, Strait of Sicily, Tyrrhenian Sea, Mediterranean Sea.
145. Anonymous, 1906h. Divieti di pesca. Pesca di mare. Riv. Mens. Pesca lacustre, Fluviale, Marina, Soc. Lombarda Pesca e Acquicoltura, Milano. VIII (8-9-10): 283-284.
- (i) Tuna trap fishery, small tuna traps, management, seasonal closure, juveniles, minimum size, swordfish fishery, swordfish trade, bluefin tuna, *Thunnus thynnus*, swordfish, *Xiphias gladius*, Sicily, Calabria, Italy, Tyrrhenian Sea, Strait of Messina, Ionian Sea, Mediterranean Sea.
146. Anonymous, 1907a. Sulle condizioni della Marina Mercantile Italiana al 31 Dicembre 1906. Relazione del Direttore Generale della Marina Mercantile a S.E. il Ministro della Marina. (ACS - Roma).
- (i) Tuna trap fishery, yields, industry, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
147. Anonymous, 1907b. Atti della Commissione consultiva per la pesca: sessione Febbraio-Marzo 1906. Annali di Agricoltura, Tip. Naz. G. Bertero e C., Roma, 251: 1-384.
- (i) Fisheries, tuna trap fishery, yields, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
148. Anonymous, 1907c. L'azione del Ministero a favore della pesca e dell'acquicoltura nel 1906. Direzione Generale dell'Agricoltura, Ministero di Agricoltura, Industria e Commercio. Annali di Agricoltura, Tip. Naz. G. Bertero e C., Roma: XXXVI + 1-133.
- (i) Legislation, laws, rules, regulation, fishery, aquaculture, freshwater fisheries, lagoon fisheries, marine fisheries, subsidies, economy, tuna trap

- fishery, tuna industry, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
149. Anonymous, 1907d. Divieti di pesca, pesca di mare. Riv. Mens. Pesca Idrobiol., IX (1–2-3): 67–72.
 - (i) Rules, regulations, seasonal closures, management, tuna trap fishery, bluefin tuna, *Thunnus thynnus*, Sicily, Italy, Ionian Sea, Strait of Sicily, Tyrrhenian Sea, Mediterranean Sea.
 150. Anonymous, 1907e. Divieti di pesca, pesca di mare. Riv. Mens. Pesca Idrobiol., IX (6): 148.
 - (i) Rules, regulations, seasonal closures, management, tuna trap fishery, bluefin tuna, *Thunnus thynnus*, Sicily, Italy, Strait of Sicily, Tyrrhenian Sea, Mediterranean Sea.
 151. Anonymous, 1907h. Divieti di pesca, pesca di mare. Riv. Mens. Pesca Idrobiol., IX (9): 198.
 - (i) Rules, regulations, seasonal closures, management, swordfish fishery, swordfish trade, tuna trap fishery, small tuna traps, bluefin tuna, *Thunnus thynnus*, swordfish, *Xiphias gladius*, Reggio Calabria, Calabria, Messina, Sicily, Italy, Ionian Sea, Strait of Messina, Tyrrhenian Sea, Mediterranean Sea.
 152. Anonymous, 1908a. Atti della Commissione Consultiva per la pesca: sessione Dicembre 1906. Annali di Agricoltura, Stab. Tip. G. Civelli, Roma, 256: XXXI + 1-239.
 - (i) Fisheries, tuna trap fishery, yields, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
 153. Anonymous, 1908b. Indice degli Atti della Commissione consultiva per la pesca, 1879–1906. Direzione Generale della Marina Mercantile, Annali di Agricoltura, Tip. G. Civelli, Roma: 1–149.
 - (i) Index, tuna trap fishery, regulations, yields, catches, industry, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
 154. Anonymous, 1908c. Divieti di pesca. Pesca di mare. Riv. Mens. Pesca Lacustre, Fluviale, Marina, Soc. Lombarda Pesca e Acquicoltura, Milano, X (2): 44.
 - (i) Tuna trap fishery, management, seasonal closure, small tuna traps, bluefin tuna, *Thunnus thynnus*, Sicily, Italy, Strait of Sicily, Tyrrhenian Sea, Ionian Sea, Mediterranean Sea.
 155. Anonymous, 1908d. Divieti di pesca. Pesca di mare. Riv. Mens. Pesca Lacustre, Fluviale, Marina, Soc. Lombarda Pesca e Acquicoltura, Milano, X (3): 68.
 - (i) Tuna trap fishery, management, seasonal closure, bluefin tuna, *Thunnus thynnus*, Sicily, Italy, Strait of Sicily, Tyrrhenian Sea, Ionian Sea, Mediterranean Sea.
 156. Anonymous, 1908e. Frequenti casi di avvelenamento col tonno sotto olio. Riv. Mens. Pesca Lacustre, Fluviale, Marina, Soc. Lombarda Pesca e Acquicoltura, Milano, X (5): 126.

- (i) Food safety, tuna industry, canned tuna, tuna in oil, import, bluefin tuna, *Thunnus thynnus*, Italy.
157. Anonymous, 1908f. Avvelenamenti col tonno fresco. Riv. Mens. Pesca Lacustre, Fluviale, Marina, Soc. Lombarda Pesca e Acquicoltura, Milano, X (6): 163.
- (i) Food safety, fresh tuna, flesh quality, preserving chemicals, decomposition, railway transport, bluefin tuna, *Thunnus thynnus*, Pizzo Calabro, Calabria, Rome, Latium, Italy, Tyrrhenian Sea, Mediterranean Sea.
158. Anonymous, 1908g. Divieti di pesca. Pesca di mare. Riv. Mens. Pesca Lacustre, Fluviale, Marina, Soc. Lombarda Pesca e Acquicoltura, Milano, X (6): 164.
- (i) Tuna trap fishery, management, seasonal closure, bluefin tuna, *Thunnus thynnus*, Sicily, Italy, Tyrrhenian Sea, Ionian Sea, Mediterranean Sea.
159. Anonymous, 1908h. La pesca di mare in Italia nel 1906. Riv. Mens. Pesca Lacustre, Fluviale, Marina, Soc. Lombarda Pesca e Acquicoltura, Milano, X (7): 184–186.
- (i) Fisheries, management, regulations, yield, catches, fish, molluscs, crustaceans, sponge fishery, coral fishery, trawl fishery, purse-seine fishery for small pelagics, fleets, tuna trap fishery, bluefin tuna, *Thunnus thynnus*, Favignana, Formica, Marzamemi, Bonagia, Magazzinazzi, Asinelli, San Giuliano e Palazzo, Tono, Sicily, Isola Piana, Portoscuso, Grande di Capo Sassari, Saline, Porto Paglia, Flumentorgiu, Sardinia, Italy, Sardinian Sea, Tyrrhenian Sea, Strait of Sicily, Ionian Sea, Mediterranean Sea.
160. Anonymous, 1908j. Divieti di pesca. Pesca di mare. Riv. Mens. Pesca Lacustre, Fluviale, Marina, Soc. Lombarda Pesca e Acquicoltura, Milano, X (8): 212.
- (i) Tuna trap fishery, small tuna traps, management, seasonal closure, swordfish fishery, swordfish trade, bluefin tuna, *Thunnus thynnus*, swordfish, *Xiphias gladius*, Sicily, Calabria, Italy, Tyrrhenian Sea, Ionian Sea, Mediterranean Sea.
161. Anonymous, 1909a. Sulle condizioni della Marina Mercantile Italiana al 31 Dicembre 1908. Relazione del Direttore Generale della Marina Mercantile a S.E. il Ministro della Marina. (ACS - Roma).
- (i) Tuna trap fishery, yields, industry, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
162. Anonymous, 1909b. L'azione del Ministero a favore della pesca e dell'acquicoltura negli anni 1907, 1908 e 1909. Direzione Generale dell'Agricoltura, Ministero di Agricoltura, Industria e Commercio. Annali di Agricoltura, Stab. Tip. G. Civelli, Roma: 1–306.
- (i) Legislation, laws, rules, regulation, fishery, aquaculture, freshwater fisheries, lagoon fisheries, marine fisheries, subsidies, economy, tuna trap fishery, tuna industry, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.

163. Anonymous, 1909c. La Tonnara dell'Enfola. Riv. Mens. Pesca Idrobiol., XI (7–8): 174.
 - (i) Tuna trap fishery, exceptional catch, tuna industry, tuna canning, bluefin tuna, *Thunnus thynnus*, Tonnara dell'Enfola, Elba Island, Tuscany, Italy, Tyrrhenian Sea, Mediterranean Sea.
164. Anonymous, 1909d. Divieti di pesca, pesca di mare. Riv. Mens. Pesca Idrobiol., XI (7–8): 176.
 - (i) Rules, regulations, seasonal closures, management, swordfish fishery, swordfish trade, tuna trap fishery, small tuna traps, bluefin tuna, *Thunnus thynnus*, swordfish, *Xiphias gladius*, Reggio Calabria, Calabria, Messina, Sicily, Italy, Ionian Sea, Strait of Messina, Tyrrhenian Sea, Mediterranean Sea.
165. Anonymous, 1910a. Sulle condizioni della Marina Mercantile Italiana al 31 Dicembre 1909. Relazione del Direttore Generale della Marina Mercantile a S.E. il Ministro della Marina. (ACS - Roma).
 - (i) Tuna trap fishery, yields, industry, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
166. Anonymous, 1910a. Sulle condizioni della Marina Mercantile Italiana al 31 Dicembre 1907. Relazione del Direttore Generale della Marina Mercantile a S.E. il Ministro della Marina. (ACS - Roma).
 - (i) Tuna trap fishery, yields, industry, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
167. Anonymous, 1910b. Atti della Commissione consultiva per la pesca: sessione Dicembre 1907. Annali di Agricoltura, Stab. Tip. G. Civelli, Roma, 261: XIX + 1–410.
 - (i) Fisheries, tuna trap fishery, yields, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
168. Anonymous, 1910c. Notizie sulla campagna di pesca marittima nell'anno 1907. Pesca del tonno. Riv. Mens. Pesca Idrobiol., V (XII), 2: 59–60.
 - (i) Fisheries, fisheries overseas, tuna trap fishery, yields, catches, bluefin tuna, *Thunnus thynnus*, Portoscuso, Isola Piana, Flumentorgiu, Porto Paglia, Saline, Sardinia, Salicà, Pepe, Sant'Antonino, Tono, Oliveri, San Giorgio, San Gregorio, Capo d'Orlando, Santa Panagia, Avola, Fiume di Noto, Marzamemi, Capo Passero, Favignana, Formica, San Giuliano e Palazzo, Bonagia, Secco, Asinelli, Torre Caldura, Trabia, San Nicola, Sant'Elia, Solanto, Vergine Maria, Orsa, Magazzinazzi, Castellammare, Scopello, Sicily, Pizzo, Langhione, Ricotti-Magnaghi, Calabria, Gallipoli, Torre Cesaria, Apulia, Lacco Ameno, Concamarini, Campania, Enfola, Tuscany, Italy, Sardinian Sea, Tyrrhenian Sea, Strait of Sicily, Ionian Sea, Mediterranean Sea.
169. Anonymous, 1910d. Divieti di pesca. Pesca di mare. Riv. Mens. Pesca Idrobiol., Pavia, V (XII), 3: 96.
 - (i) Tuna trap fishery, management, seasonal closure, bluefin tuna, *Thunnus thynnus*, Sicily, Italy, Strait of Sicily, Tyrrhenian Sea, Ionian Sea, Mediterranean Sea.

170. Anonymous, 1910e. Notizie sulla campagna di pesca marittima nell'anno 1908. Riv. Mens. Pesca Idrobiol., V (XII), 7–9: 241–245.
- (i) Fisheries, fisheries abroad, trawl fishery, coral fishery, sponge fishery, fishes, crustaceans, molluscs, small pelagics, fleets, tuna trap fishery, yields, catches, bluefin tuna, *Thunnus thynnus*, Portoscuo, Isola Piana, Flumentorgiu, Calavinagra, Saline, Sardinia, Vaccarella, Pepe, Sant'Antonino, Tono, Oliveri, San Giorgio, San Gregorio, Santa Panagia, Avola, Marzamemi, Capo Passero, Favignana, Formica, San Giuliano e Palazzo, Bonagia, Secco, Asinelli, Torre Caldura, Trabia, San Nicola, Sant'Elia, Solanto, Vergine Maria, Orsa, Magazzinazzi, Castellammare, Scopello, Sicily, Pizzo, Bivona, Mezzapraia, Calabria, Gallipoli, Torre Cesaria, Apulia, Lacco Ameno, Ciraccio, Concamarini, Campania, Enfola, Tonnarella, Tonnarelle, Tuscany, Italy, Sardinian Sea, Tyrrhenian Sea, Strait of Sicily, Ionian Sea, Mediterranean Sea.
171. Anonymous, 1911a. Sulle condizioni della Marina Mercantile Italiana al 31 Dicembre 1910. Relazione del Direttore Generale della Marina Mercantile a S.E. il Ministro della Marina. (ACS - Roma).
- (i) Tuna trap fishery, yields, industry, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
172. Anonymous, 1911b. Atti della Commissione consultiva per la pesca: sessione Dicembre 1909. Annali di Agricoltura, Tip. Naz. G. Bertero, Roma: XX + 1–451.
- (i) Fisheries, tuna trap fishery, yields, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
173. Anonymous, 1912a. Sulle condizioni della Marina Mercantile Italiana al 31 Dicembre 1911. Relazione del Direttore Generale della Marina Mercantile a S.E. il Ministro della Marina. (ACS - Roma).
- (i) Tuna trap fishery, yields, industry, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
174. Anonymous, 1912b. L'emigrazione del tonno dall'Oceano. P.A.C., Tip. F.lli Pagano, Genova: 1–14.
- (i) Tuna migrations, tuna behaviour, fishery, bluefin tuna, *Thunnus thynnus*, Mediterranean Sea, Atlantic Ocean.
175. Anonymous, 1913a. Sulle condizioni della Marina Mercantile Italiana al 31 Dicembre 1912. Relazione del Direttore Generale della Marina Mercantile a S.E. il Ministro della Marina. (ACS - Roma).
- (i) Tuna trap fishery, yields, industry, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
176. Anonymous, 1913b. Atti della Commissione consultiva per la pesca: sessione Aprile 1912. Annali di Agricoltura, Tip. Naz. G. Bertero e C., Roma: XXIII + 1–389.
- (i) Fisheries, tuna trap fishery, yields, management, tuna industry, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.

177. Anonymous, 1914. Sulle condizioni della Marina Mercantile Italiana al 31 Dicembre 1913. Relazione del Direttore Generale della Marina Mercantile a S.E. il Ministro della Marina. (ACS - Roma).
 - (i) Tuna trap fishery, yields, industry, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
178. Anonymous, 1916a. Sulle condizioni della Marina Mercantile Italiana al 31 Dicembre 1914. Relazione del Direttore Generale della Marina Mercantile a S.E. il Ministro dei Trasporti Marittimi e Ferroviari, Officina Poligrafica Italiana, Roma: 1–578.
 - (i) Tuna trap fishery, yields, industry, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
179. Anonymous, 1916b. La Marina Mercantile Italiana al 31 Dicembre 1915. Relazione del Direttore Generale della Marina Mercantile a S.E. il Ministro delle Comunicazioni. (ACS - Roma).
 - (i) Tuna trap fishery, yields, industry, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
180. Anonymous, 1916c. Prodotto della pesca del tonno negli anni 1886–1914. Direz. Gen. Pesca Marittima, Roma. (ACS - Roma).
 - (i) Fishery, statistics, catches, yields, tuna trap fishery, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
181. Anonymous, 1917. La Marina Mercantile Italiana al 31 Dicembre 1916. Relazione del Direttore Generale della Marina Mercantile a S.E. il Ministro delle Comunicazioni. (ACS - Roma).
 - (i) Tuna trap fishery, yields, industry, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
182. Anonymous, 1918. La Marina Mercantile Italiana al 31 Dicembre 1917. Relazione del Direttore Generale della Marina Mercantile a S.E. il Ministro delle Comunicazioni. (ACS - Roma).
 - (i) Tuna trap fishery, yields, industry, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
183. Anonymous, 1919. La Marina Mercantile Italiana al 31 Dicembre 1918. Relazione del Direttore Generale della Marina Mercantile a S.E. il Ministro delle Comunicazioni. (ACS - Roma).
 - (i) Tuna trap fishery, yields, industry, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
184. Anonymous, 1920. La Marina Mercantile Italiana al 31 Dicembre 1919. Relazione del Direttore Generale della Marina Mercantile a S.E. il Ministro delle Comunicazioni. (ACS - Roma).
 - (i) Tuna trap fishery, yields, industry, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
185. Anonymous, 1921a. La Marina Mercantile Italiana al 31 Dicembre 1920. Relazione del Direttore Generale della Marina Mercantile a S.E. il Ministro delle Comunicazioni. (ACS - Roma).
 - (i) Tuna trap fishery, yields, industry, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.

186. Anonymous, 1921b. Esportazione ed importazione di pesce. *Rivista Marittima*, Gennaio: 231.
 - (i) Fishery, trade, commerce, import, export, canning industry, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
187. Anonymous, 1922a. La Marina Mercantile Italiana al 31 Dicembre 1921. Relazione del Direttore Generale della Marina Mercantile a S.E. il Ministro delle Comunicazioni. (ACS - Roma).
 - (i) Tuna trap fishery, yields, industry, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
188. Anonymous, 1922b. Le tonnare della Tripolitania. *Boll. Inform. Econ. Minist. Colonie*, Roma: 14–18 + 1 fig.
 - (i) Fishery, trap fishery, yields, bluefin tuna, *Thunnus thynnus*, colonies, Tripolitania, Libya, Mediterranean Sea.
189. Anonymous, 1922c. La pesca del tonno in Cirenaica. *Boll. Inform. Econ. Minist. Colonie*, Roma: 25 + 1 fig.
 - (i) Fishery, trap fishery, yields, bluefin tuna, *Thunnus thynnus*, colonies, Cirenaica, Libya, Mediterranean Sea.
190. Anonymous, 1922d. Annuario di pesca 1922. Ispettorato Superiore della Pesca, Ministero per l'Agricoltura, Casa Editrice Italiana, Roma: 56–61.
 - (i) Fishery, fishery statistics, production, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
191. Anonymous, 1923a. La Marina Mercantile Italiana al 31 Dicembre 1922. Relazione del Direttore Generale della Marina Mercantile a S.E. il Ministro delle Comunicazioni. (ACS - Roma).
 - (i) Tuna trap fishery, yields, industry, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
192. Anonymous, 1924a. La Marina Mercantile Italiana al 31 Dicembre 1923. Relazione del Direttore Generale della Marina Mercantile a S.E. il Ministro delle Comunicazioni. (ACS - Roma).
 - (i) Tuna trap fishery, yields, industry, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
193. Anonymous, 1924b. Alcune notizie sull'industria della pesca. *Bollettino di notizie economiche*: 1089.
 - (i) Fishery, fishery statistics, production, economy, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
194. Anonymous, 1924c. Regio Decreto del 28 Ottobre 1923. Convenzione di commercio tra l'Italia e la Spagna. Ministero delle Finanze, Libreria dello Stato, Roma. (ACS - Roma).
 - (i) Decree, regulation, commercial agreement, bluefin tuna, *Thunnus thynnus*, Italy, Spain, Mediterranean Sea, Atlantic Ocean.
195. Anonymous, 1925. La Marina Mercantile Italiana al 31 Dicembre 1924. Relazione del Direttore Generale della Marina Mercantile a S.E. il Ministro delle Comunicazioni. (ACS - Roma).
 - (i) Tuna trap fishery, yields, industry, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.

196. Anonymous, 1926. La Marina Mercantile Italiana al 31 Dicembre 1925. Relazione del Direttore Generale della Marina Mercantile a S.E. il Ministro delle Comunicazioni. (ACS - Roma).
 - (i) Tuna trap fishery, yields, industry, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
197. Anonymous, 1927a. La Marina Mercantile Italiana al 31 Dicembre 1926. Relazione del Direttore Generale della Marina Mercantile a S.E. il Ministro delle Comunicazioni. (ACS - Roma).
 - (i) Tuna trap fishery, yields, industry, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
198. Anonymous, 1927b. Le Tonnare della Tripolitania. Boll. Inform. Econ. Min. Colonie, Roma: 14–18.
 - (i) Fishery, trap fishery, yields, bluefin tuna, *Thunnus thynnus*, colonies, Tripolitania, Libya, Mediterranean Sea.
199. Anonymous, 1927c. La pesca del tonno in Cirenaica. Boll. Inform. Econ. Min. Colonie, Roma: 25.
 - (i) Fishery, trap fishery, yields, bluefin tuna, *Thunnus thynnus*, colonies, Cirenaica, Libya, Mediterranean Sea.
200. Anonymous, 1928a. La Marina Mercantile Italiana al 31 Dicembre 1927. Relazione del Direttore Generale della Marina Mercantile a S.E. il Ministro delle Comunicazioni. (ACS - Roma).
 - (i) Tuna trap fishery, yields, industry, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
201. Anonymous, 1928b. La pesca del tonno in Tripolitania ed in Cirenaica. Boll. Pesca Piscicul. Idrobiol., 4 (1): 23–29.
 - (i) Fishery, trap fishery, yields, bluefin tuna, *Thunnus thynnus*, colonies, Tripolitania, Libya, Mediterranean Sea.
202. Anonymous, 1928bc. La pesca del tonno in Tunisia. Boll. Pesca Piscicul. Idrobiol., 4 (4): 444–445.
 - (i) Fishery, trap fishery, yields, bluefin tuna, *Thunnus thynnus*, colonies, Tunisia, Mediterranean Sea.
203. Anonymous, 1928d. La pesca del tonno in Tripolitania. Boll. Inform. Econ. Minist. Colonie, Roma: 14–18 + 1 map.
 - (i) Fishery, trap fishery, yields, bluefin tuna, *Thunnus thynnus*, colonies, Tripolitania, Libya, Mediterranean Sea.
204. Anonymous, 1928e. La pesca del tonno in Cirenaica. Boll. Inform. Econ. Minist. Colonie, Roma: 25 + 1 tab.
 - (i) Fishery, trap fishery, yields, bluefin tuna, *Thunnus thynnus*, colonies, Cirenaica, Libya, Mediterranean Sea.
205. Anonymous, 1928f. L'esportazione italiana del tonno. Bollettino di informazioni commerciali, 5: 81–84.
 - (i) Tuna industry, canning industry, trade, commerce, export, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
206. Anonymous, 1928 g. Movimento economico dell'Italia. Raccolta di notizie statistiche. Roma: 464–481.

- (i) Statistics, economy, tuna industry, canning industry, trade, commerce, export, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
207. Anonymous, 1928 h. L'esportazione italiana del tonno sott'olio. Bollettino di Informazioni Commerciali, III (5): 22–26.
- (i) International trade, export, canned tuna, tuna in oil, tuna trap fishery, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
208. Anonymous, 1928i. Cirenaica: La pesca del tonno nel 1927; Tripolitania: La pesca del tonno nel 1927; Esercizio delle tonnare, campagna dell'anno 1927. Bollettino di Informazioni Commerciali, III (8): 25–27.
- (i) Tuna trap fishery, tuna traps, catches, statistics, bluefin tuna, *Thunnus thynnus*, colonies, Tripolitania, Cirenaica, Libya, Mediterranean Sea.
209. Anonymous, 1928j. Conversione in legge del R. decreto-legge 18 dicembre 1927, n. 2702, riflettente l'aumento del quantitativo massimo delle uova di tonno, di provenienza dalle Colonie italiane, da importare nel Regno a trattamento di favore (Legge 5 luglio 1928, n. 2006). Bollettino di Informazioni Commerciali, III (9): 4.
- (i) Regulation, law, trade, import, trap fishery, tuna eggs, bottarga, bluefin tuna, *Thunnus thynnus*, colonies, Libya, Italy, Mediterranean Sea.
210. Anonymous, 1928k. La pesca del tonno fra il Mare del Nord e il Baltico. Boll. Pesca Pisc. Idrobiol., IV.
- (i) Tuna fishery, purse seine fishery, tuna distribution, bluefin tuna, *Thunnus thynnus*, North Sea, Atlantic Ocean, Baltic Sea.
211. Anonymous, 1929a. La Marina Mercantile Italiana al 31 Dicembre 1928. Relazione del Direttore Generale della Marina Mercantile a S.E. il Ministro delle Comunicazioni. (ACS - Roma).
- (i) Tuna trap fishery, yields, industry, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
212. Anonymous, 1929b. La pesca del tonno in Tripolitania nella campagna del 1928. Boll. Pesca Piscicul. Idrobiol., 5 (2): 290–294.
- (i) Fishery, trap fishery, yields, bluefin tuna, *Thunnus thynnus*, colonies, Tripolitania, Libya, Mediterranean Sea.
213. Anonymous, 1929c. Relazione sull'andamento economico della provincia di Trapani nell'anno 1928. Consiglio Provinciale dell'Economia. Stab. Tip. Gervasi-Modica, Trapani: 1–40.
- (i) Statistics, economy, industry, agriculture, fishery, tuna trap fishery, bluefin tuna, *Thunnus thynnus*, Trapani, Sicily, Mediterranean Sea.
214. Anonymous, 1929d. Il mercato del tonno. Bollettino di Informazioni Commerciali, IV (3): 91.
- (i) Tuna trade, tuna market, import, export, canning industry, trap fishery, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
215. Anonymous, 1929e. Un problema di grande interesse nazionale: l'industria ed il commercio del tonno. Bollettino di Informazioni Commerciali, IV (8): 289–291.
- (i) Tuna trade, tuna market, import, export, canning industry, trap fishery, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.

216. Anonymous, 1929f. La pesca del tonno durante la campagna 1929 nel Golfo dell'Asinara. Bollettino Pesca, Piscicoltura e Idrobiologia, 5.
 - (i) Research fishery, tuna fishery, trap fishery, yields, size frequencies, bluefin tuna, *Thunnus thynnus*, Asinara Gulf, Sardinia, Italy, Sardinian Sea, Mediterranean Sea.
217. Anonymous, 1930a. La Marina Mercantile Italiana al 31 Dicembre 1929. Relazione del Direttore Generale della Marina Mercantile a S.E. il Ministro delle Comunicazioni. (ACS - Roma).
 - (i) Tuna trap fishery, yields, industry, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
218. Anonymous, 1931a. La Marina Mercantile Italiana al 31 Dicembre 1930. Relazione del Direttore Generale della Marina Mercantile a S.E. il Ministro delle Comunicazioni. (ACS - Roma).
 - (i) Tuna trap fishery, yields, industry, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
219. Anonymous, 1931b. La pesca nei mari e nelle acque interne d'Italia, Ministero Agric. e Foreste, Istituto Poligrafico dello Stato, Roma: 282–284.
 - (i) Fishery, marine fishery, freshwater fishery, tuna trap fishery, yields, industry, management, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
220. Anonymous, 1931c. Industriali esercenti le tonnare. In: La pesca nei mari e nelle acque interne d'Italia, Ministero Agric. e Foreste, Istituto Poligrafico dello Stato, Roma, 2: 328–331.
 - (i) Industry, fishery, tuna trap fishery, tuna industry owners, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
221. Anonymous, 1931d. Relazione sulle condizioni economiche della Provincia di Trapani nell'anno 1931. Camera di Commercio, Trapani.
 - (i) Statistics, economy, industry, agricolture, fishery, tuna trap fishery, bluefin tuna, *Thunnus thynnus*, Trapani, Sicily, Italy, Strait of Sicily, Mediterranean Sea.
222. Anonymous, 1932a. La pesca del tonno in Tripolitania nel 1931. Boll. Pesca Piscic. Idrobiol., VIII (1): 87–91.
 - (i) Fishery, trap fishery, yields, bluefin tuna, *Thunnus thynnus*, colonies, Tripolitania, Libya, Mediterranean Sea.
223. Anonymous, 1932b. La pesca del tonno in Tripolitania nel 1931. Bollettino di Informazioni Commerciali, VII (7): 216.
 - (i) Tuna trap fishery, tuna traps, catches, statistics, bluefin tuna, *Thunnus thynnus*, colonies, Tripolitania, Libya, Mediterranean Sea.
224. Anonymous, 1938. La tonnara di Capo Passero. Prefettura di Siracusa (typed document): 2 p.
 - (i) Tuna trap fishery, ownership, catches, bluefin tuna, *Thunnus thynnus*, Capo Passero, Sicily, Italy, Ionian Sea, Mediterranean Sea.
225. Anonymous, 1951. Il tonno e la tonnara. Le vie d'Italia, rivista mensile del Touring Club Italiano, settembre: 1025–1038.

- (i) Tuna trap fishery, traditions, migrations, tuna reproduction, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
226. Anonymous, 1952. Mattanza del Tonno. Ente Prov. Turismo, Edizioni Grafiche Corrao, Trapani: 1–17.
- (i) Tuna trap fishery, tuna slaughter, tourism, traditions, bluefin tuna, *Thunnus thynnus*, Favignana, Trapani, Sicily, Italy, Strait of Sicily, Mediterranean Sea.
227. Anonymous, 1969. Studio monografico sulla città di Carloforte. Geografia, storia, economia, tradizioni. Corpo Insegnate delle Scuole Elementari di Carloforte. Edit. Sarda Fossataro, Cagliari: 1–150.
- (i) History, geography, natural history, social aspects, port, workers, mines, tuna traps, fishermen, economy, culture, traditions, bluefin tuna, *Thunnus thynnus*, Carloforte, Sardinia, Italy, Sardinian Sea, Mediterranean Sea.
228. Anonymous, 1972. Indagini sulla presenza di mercurio nel tonno: nota esplicativa. *Industria Conserve*, XLVII (3): 205.
- (i) Chemical analyses, analytical methodology, heavy metal contaminants, Mercury (Hg), tuna fishery, tuna industry, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea.
229. Anonymous, 1980. La piscicoltura in Sicilia. *Economia Siciliana*, I (3): 25–29.
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- (i) Physical curiosities, natural phenomena, strange events, tuna trap fishery, tuna migration, bluefin tuna, *Thunnus thynnus*, Mediterranean Sea.
2176. Scotto R., 1900. Notizie ed appunti sulla pesca del tonno. Tip. Bortolotto & C., Savona: 1–35 + 3 fig.
- (i) Tuna fisheries, tuna migrations, tuna trap fishery, bluefin tuna, *Thunnus thynnus*, Italy, Italian seas, Mediterranean Sea.
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2178. Sechi V., 1918. Tonnare e mattanze Sarde. Touring Club Italiano, Milano, Maggio: 101–106.
- (i) Tuna trap fishery, traditions, tuna traps, catches, rituals, fishermen, tuna harvesting, bluefin tuna, *Thunnus thynnus*, Sardinia, Italy, Sardinian Sea, Mediterranean Sea.
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2180. Sella M., 1912b. Programma di ricerche sul tonno. R. Com. Talass. It., Boll. Bimestrale, 15: 227–230.
- (i) Research programme, data collection, trap fishery, biology, etology, reproduction, biological collection, vertebrae, larval studies, post-larval studies, tagging, bluefin tuna, *Thunnus thynnus*, albacore, *Thunnus alalunga*, Atlantic bonito, *Sarda sarda*, bullet tuna, *Auxis bisus*, *Auxis rochei*, Atlantic little tunny, *Euthynnus alletteratus*, Italy, Mediterranean Sea.
2181. Sella M., 1912c. Relazione preliminare sulla prima crociera nel mare di Libia (marzo-aprile) per la parte biologica. R. Com. Talass. It., Boll. Bimestrale, 17: 282–284.

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2182. Sella M., 1924. Caratteri differenziali dei giovani stadi di *Orcynus thynnus* LtKm, *O. alalonga* Risso, *Auxis bisus* Bp. Rend. Acc. Naz. Lincei, Roma, 33: 300–305.
- (i) Eggs, larvae, growth, morphology, bluefin tuna, *Thunnus thynnus*, *Orcynus thynnus*, albacore, *Thunnus alalunga*, *Orcynus alalonga*, bullet tuna, *Auxis rochei*, *Auxis bisus*, Mediterranean Sea.
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2405. Zambernardi A., 2020. Calar tonnara. Etnografia di una maricoltura mediterranea, PhD Thesis, Ciclo XXXI, Scienze Psicologiche Antropologiche e dell’Educazione, Dipartimento di Culture, politiche e Società, Università degli Studi di Torino, and Doctorado en Ciencias Económicas, Empresariales y Sociales, Departamento de Antropología Social, Universidad de Sevilla, Tip. Eco 2000, Torino: 1–537.
- (i) Anthropology, ethnography, culture, tuna morphology, tuna migrations, tuna ethology, tuna reproduction, tuna spawning, traditions, myths, legends, religion, songs, cialoma, crew, Rais, fishermen, trap divers, tuna traps, trap technology, trap vessels, trap setting, tuna harvesting, mattanza, tuna industry, tuna canning, tuna in oil, salted tuna, dried tuna, tuna products, stomach, hearth, fillets, bottarga, trap history, traps list, traps locations, glossary in Italian, glossary in Spanish, bibliography, filmography, by-catch, dolphins, manta rays, sunfish, pelagic sharks, marine turtles, bluefin tuna, *Thunnus thynnus*, swordfish, *Xiphias gladius*, albacore, *Thunnus alalunga*, Mediterranean spearfish, *Tetrapturus belone*, skipjack tuna, *Katsuwonus pelamis*, Atlantic little tunny, *Euthynnus alletteratus*, yellowfin tuna, *Thunnus albacares*, southern bluefin tuna, *Thunnus maccoyii*, Pacific bluefin tuna, *Thunnus orientalis*, longtail tuna, *Thunnus tonggol*, blackfin tuna, *Thunnus atlanticus*, Sardinia, Sicily,

- Campania, Tuscany, Italy, Spain, Morocco, Portugal, France, Croatia, Turkey, Algeria, Tunis, Libya, Malta, Sardinian Sea, Strait of Sicily, western Mediterranean Sea, central Mediterranean Sea, Adriatic Sea, Levantine Sea, Marmara Sea, Mediterranean Sea, Atlantic Ocean.
2406. Zambernardi A., 2021. Calar tonnara. Etnografia di una maricoltura mediterranea. Self-edition, Torino: 1–16.
- (i) Tuna trap fishery, anthropology, ethnography, culture, traditions, images, photos, rituals, tuna harvesting, mattanza, tuna industry, crew, Rais, fishermen, bluefin tuna, *Thunnus thynnus*, Sardinia, Italy, Sardinian Sea, Mediterranean Sea.
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- (i) Tuna trap fishery, economy, tuna trap industry, tuna migration, fishermen, bluefin tuna, *Thunnus thynnus*, Sicily, Italy, Mediterranean Sea.
2408. Zanfi A., Martorana G., 2007. Vivo è. The fish markets of Sicily. Carlo Cambi Edit.: 1–268.
- (i) Traditional fish markets, street markets, fish variety, tradition, sea-food habits, street food, tuna trap products, bluefin tuna, *Thunnus thynnus*, Sicily, Italy, Mediterranean Sea.
2409. Zanini A., 2006. Un difficile equilibrio. Stato, pescatori e comunità in Liguria tra il Sei ed il Settecento. In: Ricchezza del Mare, ricchezza dal Mare, secc. XIII-XVIII. Istituto Internazionale di Storia F. Datini, Prato, Serie II—Atti delle “Settimane di Studi” e altri Convegni, Le Monier Ed., 37: 1091–1102.
- (i) Fisheries, trap fishery, history, historical rights, economy, social aspects, markets, trade, bluefin tuna, *Thunnus thynnus*, Camogli, Liguria, Italy, Ligurian Sea, Mediterranean Sea.
2410. Zanini A., 2010. La pesca in Liguria tra Sette ed Ottocento: tecniche, uomini e capitali. In: La pesca nel Mediterraneo Occidentale (secc. XVI-XVIII). Atti Convegno di studi, 23–24 settembre 1994, Bosa. Istituto Storia Economica, Università di Bari, Puglia Grafica Sud, Bari. X: 225–237.
- (i) Fisheries, small-scale fisheries, purse-seine fishery, beach-seine fishery, trap fishery, technology, history, historical rights, economy, social aspects, markets, trade, commerce, bluefin tuna, *Thunnus thynnus*, Camogli, Liguria, Italy, Ligurian Sea, Mediterranean Sea.
2411. Zema M.S., 1988. La pesca nello Stretto. In: Laganà G. (Ed.), La città e il mare. La storia, l’attività marittima e la costruzione del fronte a mare di Reggio Calabria sulla riva dello Stretto. Gangemi Edit., Roma-Reggio Calabria: 1–390.
- (i) Small-scale fisheries, harpoon fishery, hand-line fishery, bluefin tuna, *Thunnus thynnus*, swordfish, *Xiphias gladius*, Reggio Calabria, Calabria, Italy, Strait of Messina, Mediterranean Sea.
2412. Zinnanti M., 1912. Cenni storici delle Isole Egadi. Tip. G. Genovese, Monte San Giuliano: 18–24.

- (i) History, archaeology, noble families, historical rights, Pallavicini, Florio, tuna salting plants, tuna trap fishery, tuna industry, economy, traditions, tuna trap fishery, bluefin tuna, *Thunnus thynnus*, Egadi islands, Sicily, Italy, Strait of Sicily, Mediterranean Sea.
2413. Zizola F., 2020. Sale, sudore, sangue. Postcart Edit., Roma: 1–126.
- (i) Tuna trap fishery, traditions, rituals, images, photos, exhibit, literature, tuna migration, Rais, fishermen, fishing villages, bluefin tuna, *Thunnus thynnus*, Portoscuso, Porto Paglia, Sardinia, Italy, Sardinian Sea, Mediterranean Sea.
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- (i) Reproduction, broodstock management, spawning, farmed tuna, bluefin tuna, *Thunnus thynnus*, Mediterranean Sea.
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- (i) Reproductive biology, reproductive physiology, reproduction, sexual maturity, ovarian cycle, histology, bluefin tuna, *Thunnus thynnus*, Mediterranean Sea.
2416. Zuccagni-Orlandini A., 1842. *Corografia fisica, storica e statistica dell'Italia e delle sue Isole*. Tip. All'Insegna di Clio, Firenze: 1–844.
- (i) Geography, history, mountains, lakes, rivers, towns, villages, monuments, archaeological sites, landscapes, islands, economy, agriculture, industry, fishery, statistical data, tuna trap fishery, bluefin tuna, *Thunnus thynnus*, Sicily, Sardinia, Italy, Mediterranean Sea.
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- (i) Ancient languages, ancient Greek fishery terminology, fish names, fishing gear names, tuna trap fishery, bluefin tuna, *Thunnus thynnus*, Greece, Mediterranean Sea.
2418. Zumbo A. 1992. *Piscatoria instrumenta. Da Oppiano a Maurolico*. *Atti dell'Accademia Peloritana dei Pericolanti, LXVII, Messina*: 293–302.
- (i) Halieutic, fishing gear, history, ancient fishery terminology, fish names, fishing gear names, tuna trap fishery, harpoon fishery, bluefin tuna, *Thunnus thynnus*, swordfish, *Xiphias gladius*, Mediterranean Sea.
2419. Zupa R., Corriero A., Deflorio M., Santamaria N., Spedicato D., Marano C., Losurdo M., Bridges C.R., De Metrio G., 2009b. A histological investigation of the occurrence of non-reproductive female bluefin tuna *Thunnus*

- thynnus* in the Mediterranean Sea. *J. Fish Biol.*, 75: 1221–1229. <https://doi.org/10.1111/j.1095-8649.2009.02355.x>.
- (i) Reproduction, female gonads, mature fish, skipped spawning, histological analysis, bluefin tuna, *Thunnus thynnus*, Mediterranean Sea.
2420. Zupa R., Santamaria N., Mylonas C.C., Deflorio M., de la Gándara F., Vassallo-Agius R., Pousis C., Passantino L., Centoducati G., Bello G., Corriero A., 2012a. Male germ cell proliferation and apoptosis during the reproductive cycle of captive-reared Atlantic bluefin tuna *Thunnus thynnus* (Linnaeus). *Aquaculture Research*, 45: 1733–1736. <https://doi.org/10.1111/are.12110>.
- (i) Male germ cell, proliferation, apoptosis, reproductive cycle, farmed tuna, bluefin tuna, *Thunnus thynnus*, Mediterranean Sea.
2421. Zupa R., Fauvel C., Mylonas C.C., Santamaria N., Valentini L., Pousis C., Papadaki M., Suquet M., de la Gándara F., Bello G., De Metrio G., Corriero A., 2012b. Comparative analysis of male germ cell proliferation and apoptosis in wild and captive Atlantic bluefin tuna *Thunnus thynnus*. *Journal of Applied Ichthyology*, 29: 71–81. <https://doi.org/10.1111/j.1439-0426.2012.02045.x>.
- (i) Male germ cell, proliferation, apoptosis, gonads, wild tuna, farmed tuna, bluefin tuna, *Thunnus thynnus*, Mediterranean Sea.

Annex 2: Annotated Italian Electronic and Audio-Visual Resources on Atlantic Bluefin Tuna, *Thunnus thynnus* (BFT)

1. Accardi S., 2010. Favignana, perla rossa del Mediterraneo. Video. <https://www.youtube.com/watch?v=HZcXp3bUPvM>.
 - i. History, geography, settlements, Pallavicini family, traditions, old post-cards, images, tuna trap fishery, tuna industry, bluefin tuna, *Thunnus thynnus*, Favignana, Egadi Islands, Sicily, Italy, Strait of Sicily, Mediterranean Sea.
2. Aglieco D., Agnello S., Giustolisi S., 2012. Il degrado e la bellezza. La Tonnara di S. Panagia (Siracusa). Video. <https://www.youtube.com/watch?v=1tNUAs7JwSE>.
 - i. Old tuna trap, architecture, ruins, buildings, impact of oil refinery, bluefin tuna, *Thunnus thynnus*, Santa Panagia, Siracuse, Sicily, Italy, Ionian Sea, Mediterranean Sea.
3. Alliata di Villafranca F., Di Napoli Q., Moncada P., 1947. Tonnara. Panaria Film, Roma (re-edited in 2013 by Servizio Centro Regionale per l'Inventario, la Catalogazione e la Documentazione grafica, fotografica, aerofotogrammetrica, audiovisiva, Filmoteca regionale siciliana, Dipartimento dei Beni Culturali e dell'Identità Siciliana, Assessorato dei beni Culturali e dell'Identità Siciliana, Regione Siciliana, Palermo). 11', movie. <https://www.youtube.com/watch?v=y3zQeRx1tUk>.

- i. Tuna trap fishery, movie, first underwater movie, history, Arabs, traditions, rituals, culture, fishing techniques, fishermen, Rais, migrations, reproduction, harvesting, songs, aja mola, mattanza, bluefin tuna, *Thunnus thynnus*, Sicily, Italy, Mediterranean Sea.
4. Alliata di Villafranca F., 1948. Mattanza. OFS, Palermo, Movie.
 - i. Tuna trap fishery, movie, history, Arabs, traditions, rituals, culture, fishing techniques, fishermen, Rais, fisher's life style, harvesting, songs, aja mola, mattanza, bluefin tuna, *Thunnus thynnus*, Sicily, Italy, Mediterranean Sea.
5. Annone C., 2012. A pesca del tonno. Video. <https://www.youtube.com/watch?v=PtjLbg-K9uE>.
 - i. Longline fishery, bait, catches, bluefin tuna, *Thunnus thynnus*, Sicily, Italy, Ionian Sea, Mediterranean Sea.
6. Annone C., 2012. Cosa sarà?. Video <https://www.youtube.com/watch?v=-NVjybNGXn0>.
 - i. Longline fishery, catches, bluefin tuna, *Thunnus thynnus*, Sicily, Italy, Ionian Sea, Mediterranean Sea.
7. Anonymous, 1958a. Isola di Favignana, ripresa diretta di una tonnara. (Re-edited in 2010 by Carlo Alberto Chiesa, ForumAcademyfanclub). Movie. <https://www.youtube.com/watch?v=2cJExOKTQu8>.
 - i. Tuna trap fishery, movie, history, fishing village, traditions, fisher's life style, women, rituals, religion, culture, fishing techniques, Rais, fishermen, nets preparation, bluefin tuna, *Thunnus thynnus*, Favignana, Egadi Islands, Sicily, Italy, Strait of Sicily, Mediterranean Sea.
8. Anonymous, 1958b. Isola di Favignana, ripresa diretta di una tonnara 3. (Re-edited in 2010 by Carlo Alberto Chiesa, ForumAcademyfanclub). Movie. <https://www.youtube.com/watch?v=2cJExOKTQu8>.
 - i. Tuna trap fishery, movie, history, traditions, rituals, culture, fishing techniques, Rais, fishermen, harvesting, songs, cialoma, aja mola, mattanza, bluefin tuna, *Thunnus thynnus*, Favignana, Egadi Islands, Sicily, Italy, Strait of Sicily, Mediterranean Sea.
9. Anonymous, 1972. Favignana, pesca del tonno. RAI Storia (digital re-edition by N. Costanza, 2012), movie. <https://www.youtube.com/watch?v=EY0Me9oD8nQ>.
 - i. Tuna trap fishery, movie, history, traditions, fishing techniques, fishermen, harvesting, mattanza, bluefin tuna, *Thunnus thynnus*, Favignana, Egadi Islands, Sicily, Italy, Strait of Sicily, Mediterranean Sea.
10. Anonymous, 2007. La mattanza dei tonni a Carloforte. Video. <https://www.youtube.com/watch?v=fq2zTPw3QNg>.
 - i. Tuna trap fishery, vessels, traditions, Rais, fishermen, rhythms, cialoma, tuna harvesting, mattanza, bluefin tuna, *Thunnus thynnus*, Carloforte, Sardinia, Italy, Sardinian Sea, Mediterranean Sea.
11. Anonymous, 2008. Storie di tonnara. Portosantavenere. Video. <https://www.youtube.com/watch?v=NkiUsyaffI9o>.
 - i. History, fishermen settlements, culture, tuna trap fishery, trap technology, vessels, traditions, Rais, fishermen, rhythms, cialoma, tuna harvesting,

- mattanza, small scale fishery, bluefin tuna, *Thunnus thynnus*, Bivona, Calabria, Italy, Tyrrhenian Sea, Mediterranean Sea.
12. Anonymous, 2009. Ajamola ajamola. Video. <https://www.youtube.com/watch?v=a3ByLpk2c64>.
 - i. Tuna trap fishery, tuna harvesting, mattanza, fishermen, songs, rhythms, cialoma, bluefin tuna, *Thunnus thynnus*, Favignana, Egadi Islands, Sicily, Italy, Strait of Sicily, Mediterranean Sea.
 13. Anonymous, 2010. Tonnara Enfola. Vivere l' Ambiente, 57. Video. <https://vimeo.com/17215584>.
 - i. Old tuna trap, history, architecture, ruins, restoration, protected area, bluefin tuna, *Thunnus thynnus*, Elba Island, Tuscany, Italy, Tyrrhenian Sea, Mediterranean Sea.
 14. Anonymous, 2011a. Comune di Favignana: Aiamola. Songs. <https://www.youtube.com/watch?v=uTC2SsXXLFs>.
 - i. Tuna trap fishery, traditions, songs, rhythms, cialoma, aiamola, bluefin tuna, *Thunnus thynnus*, Favignana, Egadi Islands, Sicily, Italy, Strait of Sicily, Mediterranean Sea.
 15. Anonymous, 2011b. Tonnara Carloforte 05–2011. Carloforte Tonnare, Video. <https://www.youtube.com/watch?v=juYach4tdgY>.
 - i. Tuna trap fishery, vessels, tuna industry, tuna landing, tuna slaughtering, bluefin tuna, *Thunnus thynnus*, Carloforte, Sardinia, Italy, Sardinian Sea, Mediterranean Sea.
 16. Anonymous, 2011c. Sulla rotta del tonno rosso. VerdeMediterraneo, Mediterraneo Sat. Video. <https://www.youtube.com/watch?v=hadOg2kvwAo>.
 - i. History, tuna trap fishery, vessels, traditions, small scale fishery, Rais, fishermen, tuna harvesting, mattanza, tuna slaughtering, religion, culture, tourism, bluefin tuna, *Thunnus thynnus*, Bonagia, Trapani, Sicily, Italy, Strait of Sicily, Mediterranean Sea.
 17. Anonymous, 2011d. Cialoma di Favignana: Lina, Lina. Tegoblue. Audio. <https://www.youtube.com/watch?v=cqIz2ncoWIk>.
 - i. Tuna trap fishery, music, songs, rhythms, cialoma, bluefin tuna, *Thunnus thynnus*, Favignana, Egadi Islands, Sicily, Italy, Strait of Sicily, Mediterranean Sea.
 18. Anonymous, 2011e. Cialoma di Favignana: Aiamola. Tegoblue. Audio. <https://www.youtube.com/watch?v=uTC2SsXXLFs>.
 - i. Tuna trap fishery, music, songs, rhythms, cialoma, aja mola, bluefin tuna, *Thunnus thynnus*, Favignana, Egadi Islands, Sicily, Italy, Strait of Sicily, Mediterranean Sea.
 19. Anonymous, 2012a. Sardegna, la tonnara di San Pietro. Lineablu, RAI1. Video. <https://www.youtube.com/watch?v=T4E6-aBT-ds>.
 - i. Tuna trap fishery, history, traditions, architecture, vessels, tuna harvesting, mattanza, fishermen, trap divers, tuna industry, tuna slaughtering, tuna canning, tuna in oil, bluefin tuna, *Thunnus thynnus*, San Pietro Island, Sardinia, Italy, Sardinian Sea, Mediterranean Sea.

20. Anonymous, 2012b. Mattanza dei tonni a Carloforte, Luglio 1955. Istituto Luce, Cinegiornale Pesca in Sardegna. Video. <https://www.youtube.com/watch?v=ivIGYKnIBXI>.
 - i. Ethnography, old movie, tuna trap, tuna harvesting, mattanza, bluefin tuna, *Thunnus thynnus*, Carloforte, Sardinia, Italy, Sardinian Sea, Mediterranean Sea.
21. Anonymous, 2012c. Tonnara Scopello. CrisasMovie, Video. <https://www.vimeo.com/40329783>.
 - i. Old tuna trap, architecture, coast view, bluefin tuna, *Thunnus thynnus*, Scopello Sicily, Italy, Tyrrhenian Sea, Mediterranean Sea.
22. Anonymous 2013. Come catturare tonni giganti. Tonni in freestyle con Saverio Rosa. Trabucco TV. Video. <https://www.youtube.com/watch?v=CACGiUmAe9E>.
 - i. Recreational fishery, drifting fishery, bluefin tuna, *Thunnus thynnus*, Latium, Italy, Tyrrhenian Sea, Mediterranean Sea.
23. Anonymous, 2014a. Aja mola, canzone popolare siciliana. Video. https://www.youtube.com/watch?v=hBK_A0QCmrs.
 - i. Tuna trap fishery, museum, tuna harvesting, mattanza, songs, rhythms, cialoma, bluefin tuna, *Thunnus thynnus*, Favignana, Egadi Islands, Sicily, Italy, Strait of Sicily, Mediterranean Sea.
24. Anonymous, 2014b. Cialoma, canto tipico della mattanza. Storie enogastronomiche. Video. <https://www.youtube.com/watch?v=X8JgG-51ToA>.
 - i. Old tuna trap, songs, rhythms, cialoma, aja mola, bluefin tuna, *Thunnus thynnus*, Favignana, Egadi Islands, Sicily, Italy, Strait of Sicily, Mediterranean Sea.
25. Anonymous, 2014c. Tonnara. (Re-edited mixing various old movies by Sheva795). Movie. <https://www.youtube.com/watch?v=ET7S6c11V9I>.
 - i. Tuna trap fishery, movie, history, fishing village, traditions, fisher's life style, rituals, culture, fishing techniques, Rais, fishermen, nets preparation, harvesting, mattanza, bluefin tuna, *Thunnus thynnus*, Favignana, Egadi Islands, Sicily, Italy, Mediterranean Sea.
26. Anonymous, 2014d. Castellabate tonnara 2003. 67TV. Video. <https://www.youtube.com/watch?v=n1Z3wvk4weU>.
 - i. Purse seine fishery, joint fishery operation, transfer in cages, aerial spotting, baiting, underwater images, harvesting, bluefin tuna, *Thunnus thynnus*, Santa Maria di Castellabate, Campania, Italy, Tyrrhenian Sea, Mediterranean Sea.
27. Anonymous, 2014e. Cialoma, il canto tipico della mattanza. Storie enogastronomiche. Video. <https://www.youtube.com/watch?v=X8JgG-51ToA>.
 - i. Tuna trap fishery, museum, tuna harvesting, mattanza, songs, rhythms, cialoma, bluefin tuna, *Thunnus thynnus*, Favignana, Egadi Islands, Sicily, Italy, Strait of Sicily, Mediterranean Sea.
28. Anonymous, 2014f. La Tonnara di Camogli. Milano Scuola di Cinema e Televisione, Video. <https://www.youtube.com/watch?v=Ijb5H5roiW4>.

- i. Small tuna trap, tradition, rope making, trap net making, coco fibre, net colouring, vessels, harvesting, by-catch, sun fish, *Mola mola*, greater amberjack, *Seriola dumerili*, Camogli, Liguria, Italy, Ligurian Sea, Mediterranean Sea.
29. Anonymous, 2014g. Cetara, pesca del tonno. Filmare, Video. <https://www.youtube.com/watch?v=LtSDe4tIKzs>.
 - i. Purse seine fishery, purse seiners, tuna market, vessels, baiting, joint fishing operation, underwater images, tuna landing, tuna industry, bluefin tuna, *Thunnus thynnus*, Cetara, Campania, Palermo, Sicily, Italy, Tyrrhenian Sea, Mediterranean Sea.
30. Anonymous, 2015a. Tonnara Florio Favignana. Solaris. Ass. Reg. Beni Culturali, Regione Sicilia, <https://vimeo.com/83820694>.
 - i. Old tuna industry, Museum, old tuna trap, architecture, history, photo exhibit, tuna canning, bluefin tuna, *Thunnus thynnus*, Favignana, Egadi Islands, Sicily, Italy, Strait of Sicily, Mediterranean Sea.
31. Anonymous, 2015b. Gioacchino Cataldo, l'ultimo Rais della tonnara di Favignana. Video. <https://www.youtube.com/watch?v=0BSAN7xWlxs>.
 - i. Tuna trap fishery, gear characteristics, divers, vessels, culture, traditions, Rais, fishermen, interviews, bluefin tuna, *Thunnus thynnus*, Favignana, Egadi Islands, Sicily, Italy, Strait of Sicily, Mediterranean Sea.
32. Anonymous, 2015c. Il presagio del ragno. Tratti Documentari. Sitpuntocom, ISRE. Video. <https://www.vimeo.com/149334497>.
 - i. Tuna trap fishery, ethnography, trap preparation, trap setting, traditions, songs, bluefin tuna, *Thunnus thynnus*, San Pietro Island, Sardinia, Italy, Sardinian Sea, Mediterranean Sea.
33. Anonymous, 2016a. Phantom 3, Tonnara Tipa, Trapani. Video. <https://www.youtube.com/watch?v=KAwXvvUxduE>.
 - i. Old tuna trap, aerial view, architecture, ruins, Tipa, Trapani, Sicily, Italy, Strait of Sicily, Mediterranean Sea.
34. Anonymous, 2016b. In ricordo della Tonnara di Bonagia e San Cusumano. Video. <https://www.youtube.com/watch?v=FCIhfXxoAb4>.
 - i. Old tuna traps, architecture, vessels, bluefin tuna, *Thunnus thynnus*, Bonagia, San Cusumano, Trapani, Sicily, Italy, Strait of Sicily, Mediterranean Sea.
35. Anonymous, 2016c. Salvatore Mastrobattista detto il "Boia dei tonni". Video. https://www.youtube.com/watch?v=_ro4O5sYHfM.
 - i. Interview, old tuna fishermen, reminding, tuna trap fishery, bluefin tuna, *Thunnus thynnus*, Favignana, Egadi Islands, Sicily, Italy, Strait of Sicily, Mediterranean Sea.
36. Anonymous, 2016d. Canto in tonnara a Favignana. Pathos Adv. Video. <https://www.youtube.com/watch?v=-D45CkQ3aLA>.
 - i. Ethnography, tuna trap fishery, Museum, songs, rhythms, cialoma, aja mola, bluefin tuna, *Thunnus thynnus*, Favignana, Egadi Islands, Sicily, Italy, Strait of Sicily, Mediterranean Sea.

37. Anonymous, 2016f. Una tradizione che si rinnova a Favignana. Telesud Trapani, Video. <https://www.youtube.com/watch?v=zuhs4NGSHZY>.
 - i. Tuna trap fishery, architecture, vessels, culture, traditions, Rais, fishermen, interviews, architecture, tuna industry, bluefin tuna, *Thunnus thynnus*, Favignana, Egadi Islands, Sicily, Italy, Strait of Sicily, Mediterranean Sea.
38. Anonymous, 2016 g. La ricetta del tonno sott'olio del Rais di Favignana. Video. <https://www.youtube.com/watch?v=crqbGRySUHo>.
 - i. Tuna trap, tuna in oil, recipes, culture, traditions, Rais, interview, bluefin tuna, *Thunnus thynnus*, Favignana, Egadi Islands, Sicily, Italy, Strait of Sicily, Mediterranean Sea.
39. Anonymous, 2016 h. Il pescatore di tonno, Gioacchino Cataldo ultimo Rais di Favignana. Telesud Trapani, Video. <https://www.youtube.com/watch?v=8134GnML4CM>.
 - i. Tuna trap fishery, culture, traditions, Rais, interviews, bluefin tuna, *Thunnus thynnus*, Favignana, Egadi Islands, Sicily, Italy, Strait of Sicily, Mediterranean Sea.
40. Anonymous, 2016i. Trailer Museo della Tonnara di Stintino. Video. <https://www.youtube.com/watch?v=n4nawJ8xOLI&t=31s>.
 - i. Tuna trap fishery, tuna industry, tuna tuna migration, history, Phoenicians, Greeks, Romans, amphoraes, *garum*, fishermen, Rais, tuna harvesting, mattanza, vessels, fishermen's migrations, fishermen's settlement, bottarga, tuna canning, spotting tower, protected area, museum, bluefin tuna, *Thunnus thynnus*, Tonnara Salina, Stintino, Asinara, Sardinia, Italy, Sardinian Sea, Mediterranean Sea.
41. Anonymous, 2016. Verso la Tonnara di Scopello. Video. <https://www.vimeo.com/192539577>.
 - i. Old tuna trap, architecture, bluefin tuna, *Thunnus thynnus*, Scopello, Sicily, Italy, Tyrrhenian Sea, Mediterranean Sea.
42. Anonymous, 2017a. Ex Tonnara Florio. Fly Emotions, Video. <https://www.vimeo.com/230137054>.
 - i. Tuna trap, tuna industry, traditions, tuna canning, architecture, Museum, vessels. bluefin tuna, *Thunnus thynnus*, Favignana, Egadi Islands, Sicily, Italy, Syrait of Sicily, Mediterranean Sea.
43. Anonymous, 2017b. Museo della Tonnara di Stintino. Multimedial contents. <http://www.mutstintino.com/?lang=en>.
 - i. Old tuna trap, Museum, history, tuna industry, fishermen, Rais, bluefin tuna, *Thunnus thynnus*, Stintino, Sardinia, Italy, Sardinian Sea, Mediterranean Sea.
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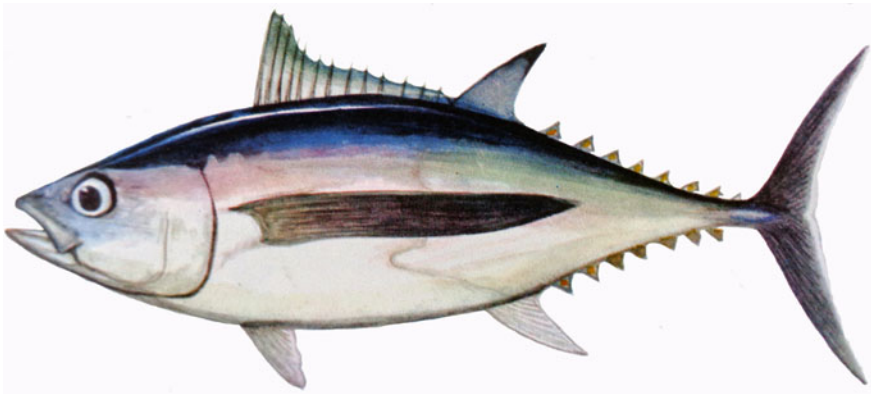
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Comprehensive Italian Annotated Bibliography on Albacore (*Thunnus alalunga*, Bonnaterre, 1788)

Antonio Di Natale, Corrado Piccinetti, Piero Addis, Fulvio Garibaldi, and Fausto Tinti



A. Di Natale (✉)

Aquastudio Research Institute, Via Trapani 6, 98121 Messina, Italy
e-mail: adinatale@acquariodigenova.it

C. Piccinetti

Laboratorio di Biologia Marina e Pesca, University of Bologna in Fano, Viale Adriatico 1, 61032 Fano, PU, Italy
e-mail: corrado.piccinetti@unibo.it

P. Addis

Dipartimento di Scienze della Vita e dell'Ambiente, University of Cagliari, Via Fiorelli 1, 09126 Cagliari, Italy
e-mail: addisp@unica.it

F. Garibaldi

Laboratory of Fish and Fishery Biology, Department of Earth, Environment and Life Sciences, DISTAV, University of Genova, Palazzo delle Scienze, Corso Europa 26, 16132 Genova, Italy
e-mail: fulvio.garibaldi@unige.it

Abstract

The Italian scientists have a long tradition of studies and research on albacore (*Thunnus alalunga*). This species is one of the most important for the Italian fishery for many centuries, even if it was often neglected. This is an attempt to list together the many papers published so far by Italian scientists, concerning the biology of this species, the fisheries, and many other scientific and cultural issues. The aim is to provide an annotated bibliography, with specific keywords in English, for making available all these documents independently from the original language of the text. So far, we found 378 papers on albacore but the bibliography is surely incomplete, because of the many papers published over the years in many places. This bibliography, updated till 2020, was set together to serve the scientists and to help them in finding some rare references that might be useful for their work.

Keywords

Albacore • Bibliography • Biology • Catches • CPUE • Economy • Feeding • Fisheries • Gear impact • Heavy metals • History • Migrations • Nomenclature • Reproduction • Rules • Regulation • Systematics • Stocks • Techniques • Technology • Traditions • *Thunnus alalunga*

1 Foreword

This paper was prepared for providing the annotated overview of the Italian literature on albacore tuna (*Thunnus alalunga*, Bonnaterre, 1788) (FAO code: ALB), as comprehensive as possible.

After the publication of the first tentative annotated bibliographies of Italian authors on albacore (Garibaldi *et al.*, 2019; Di Natale, 2020), it was clear the need to further explore the archives for recovering additional papers which escaped from the previous reviews, with the objective to provide a more comprehensive bibliography.

The International Commission for the Conservation of Atlantic Tunas (ICCAT) is the Regional Fishery Management Organisation (RFMO) that is in charge of the management of this species in the Atlantic Ocean, in the Mediterranean Sea, and in the adjacent waters, which considers the Mediterranean albacore as a distinct

F. Tinti

Laboratory Genetics & Genomics of Marine Resources & Environment (GenoDREAM),
Department Biological, Geological & Environmental Sciences, University of Bologna, Via
Sant'Alberto, 163, 48100 Ravenna, Italy
e-mail: fausto.tinti@unibo.it

stock from the two Atlantic ones. Many foreign scientists working on this species suppose that the Mediterranean stock is poorly documented.

This perception is possibly induced by the fact that many papers concerning the Mediterranean albacore are written in Italian, a language that is not one of the three official languages used in ICCAT (English, French, and Spanish), and possibly some scientists may have problems in understanding the contents. Spanish, French, Greek, and Turkish scientists wrote many other papers on albacore in the same distribution area also. However, most of the modern studies on albacore had Italian, Spanish, or Greek authors, even if Italian authors are clearly the large majority, at least for the Mediterranean Sea. Therefore, it is a sort of national proudness to provide this comprehensive annotated bibliography on albacore, annotating all references with a variety of English keywords for improving the opportunities to detect them with an electronic searching engine.

Another reason for setting up the Italian annotated bibliography on this species is that many papers are not available in electronic format. Therefore, young researchers, who are not used to study and mine in traditional libraries anymore, could be likely unable to detect the studies that have been carried out so far on the many aspects of this species, which sometimes results in duplicating efforts and not taking into account the previous scientific findings and knowledge.

The importance of a species-specific annotated bibliography on albacore is clear, even if, in addition to the efforts previously done by Garibaldi *et al.* (2020) and Di Natale (2020), this species was also included in the monumental annotated bibliography provided by Corwin (1930), followed by the updating by Shimada (1951), then by Van Campen and Hoven (1956), and the two specific papers on this species by Le Gall (1974 and 1981), a set of annotated bibliographies which provided a treasure of references on albacore. An indexed bibliography, limited to tagging and including albacore, was published by Bayliff (1993). Not-annotated literature reviews on tunas, including albacore, were provided by Cavanna (1880), Collette and Nauen (1983), Bailey (1986), Pillai and Mallia (2007), and Collette and Graves (2019).

2 Criteria

The bibliography on albacore (*Thunnus alalunga*) included in this work was selected when an Italian scientist was the only author of a paper or when one or more Italian scientists were among the authors of collective papers.

This was the primary criterium used for selecting the many titles, independently if they were peer-reviewed papers; books; not-peer-reviewed papers; papers presented in conferences, meetings, or congresses; reports to public administrations; or project reports. A secondary criterium for papers selection considered those documents directly related to the target species, even if, in some cases, the albacore is concerned by just a part of the text.

This work implied also checking all bibliographic references listed in each paper, in a sort of a never-ending duty, but this difficult approach allowed finding also rare local or even forgotten papers.

For the very ancient papers, it was reported the first edition that it was possibly to find, independently from the date of the original work. When vernacular names or old scientific names were used in the original paper, sometimes they were possibly listed in the annotation. The annotations required each paper to be checked in detail and this implied an additional and huge workload.

The annotations show the main subjects in the content, and the descriptors proposed by ASFIS (Fagetti et al., 2009) have been mostly used, adding additional descriptors when necessary. As concerns the annotation of the species included in each reference, both the international common name(s) and the Latin name(s) were used.

3 Discussion

The albacore (*Thunnus alalunga*) was described as a distinct species in 1788 by Bonnaterre, under eight different names in the same book (*Scomber alalunga*, *Germo alalunga*, *Thynnus alalunga*, *Albacora alolonga*, *Germo alalonga*, *Orcynus alalonga*, *Thunnus alalonga*, and *Thynnus alalonga*). Some descriptions of this species have been possibly hidden in various texts for centuries, because several authors were reporting “tunas”, without so many distinctions. In our case, the first reference we found among the Italian authors is in Mongitore (1743), who simply reported in a clear manner the popular description of the species. Another preliminary reference is in Cetti (1777) who reported *Scomber alalunga* and *Thunnus alalunga*.

One of the major problems for this bibliography was the need to homogenise the style of all citations, which were reported under many different styles. Apparently, this fact can appear as a minor problem, but it required a very important amount of work and time.

Another problem, which is possibly limiting also this list, is that several papers are including references on albacore tuna which are not mentioned in the title or in the abstract or even in the index, making it difficult to detect when this species is mentioned in a paper or book. Furthermore, in old times, this species was possibly confused with the Atlantic bluefin tuna and, consequently, quite often reported as “tuna”; therefore, in those cases, it was impossible to discriminate if any albacore was included in that paper.

The number of titles that are now available, including those published or anyway submitted in 2020 and published in early 2021, surely constitute a very useful and unique reference list for all the researchers working on albacore and particularly on the Mediterranean stock but also on this species in general. The opportunities provided by the web are improving the number of available articles on this species and its fisheries. This annotated bibliography required a considerable amount of work and a lot of attention, because several documents were

published not only by marine scientists, but also by historians, economists, sociologists, or economists, making the search very wide and difficult, certainly very multidisciplinary. Even limiting the bibliography to the works where an Italian scientist was among the authors, the number of citations that it was possible to discover so far is important, being anyway conscious that the list is certainly incomplete and, possibly, it will never be complete.

In many cases, when checking a document, it was possible to discover additional literature that was previously not available, transforming a part of this work as a continuous journey following Ariadne's thread.

Going through the various titles (and the text behind) in the bibliography, it is possible to find important amounts of information and data on catches, fisheries, biological matters, historical, environmental, social and economic aspects; and several data about the impact of the albacore fishery on other species.

This work is providing and listing a total of 378 papers (Fig. 1). The large majority of the papers were edited in the twentieth century, with few contributions in previous centuries, even before the official description of the species. The first Italian paper on albacore was published in 1743 by Mongitore, but just three papers were published in the eighteenth century on this species. Most of the old papers (22 documents, 5.8%) were produced in the second part of the nineteenth century. The papers published in the very first part of the twenty-first century are also important in number (116 papers, 30.6%), showing a growing interest for this species.

Between 1900 and 1939, there was a limited production of scientific papers on albacore (9 in the first decade of the twentieth century, 10 in the second decade, and 9 in the third decade), mostly due to the many field activities carried out by the

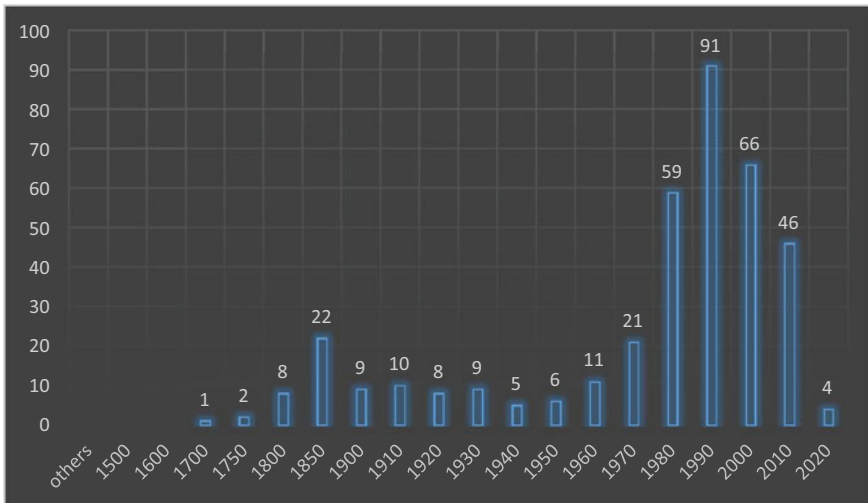


Fig. 1 Number of the papers published on albacore by Italian authors over the years (from 1700 to 2020)

Institute of Zoology of the University of Messina. Then, there was a very limited scientific production in the '40s, during the Second World War and the very slow resumption of the scientific studies on albacore in the '50s, followed by an increase in the '60s (11 papers).

A remarkable increase in the Italian scientific production on albacore was initiated in the '70s, thanks to several research initiatives. It was more evident in the '80s, when the first Italian national triennial research plan was launched by the Ministry of Merchant Marine¹, followed by a series of additional triennial plans, with an Italian coordinated research activity on large pelagic species, till the year 2002. The scientific production on this species jumped from 21 papers in the '70s to 59 papers in the '80s and the peak of 91 papers in the '90s. Then, the EC Data Collection Programme followed by the EC Data Collection Framework (which is still active) again enhanced most of the research activities. 66 papers were published in the years 2000–2009, while 46 papers have been published in the last decade and 4 in 2020.

Most of the papers (256 documents, 67.72%) are in Italian, thus causing an issue in the accessibility and readability in recent times. These papers were published when the Italian language was mandatory by the law during the Fascist era, or when foreign languages were not used, or because they were official domestic reports. For these papers, the current annotation in English now allows all researchers better understand their contents. The remaining 32.28% of the papers are written in other five languages, being those in English the majority (99 papers, 26.19%). 18 papers (4.76%) are in French because this was the most used language at the CIESM², where many Italian scientists were participating from the '60s. Two papers (0.53% each) are, respectively, in Latin or Spanish, while one paper (0.26%) is in Slovenian. Figure 2 provides a graphic image of the languages used by the Italian authors for papers on albacore that are listed in the annotated bibliography.

The annotation allows to identify the many themes included in each paper. Table 1a, b shows the most relevant themes in the annotations and it is interesting to see how many aspects of the albacore “world” the various Italian authors have examined over the centuries. All papers are specifically related to the Mediterranean Sea or include also the Mediterranean Sea, while the Atlantic Ocean is mentioned also in 17 papers (4.5%) and the Pacific Ocean is mentioned in 11 papers (2.91%). The local subdivisions within the Mediterranean Sea are important for better localising where the studies on albacore were mostly concentrated: the Ionian Sea is mentioned in 92 papers (24.34%), closely followed by the Tyrrhenian Sea in 90 papers (23.81%), the Adriatic Sea in 74 papers (19.58%), the Ligurian Sea in 41 papers (10.85%), and the Strait of Sicily in 40 papers (10.58%), while other areas are less represented. Figure 3 shows the different parts of the Mediterranean concerned by

¹ Now the Ministry of Agriculture, Food and Forestry Policies (MIPAAF).

² CIESM, Commission Internationale pour l'Exploration Scientifique de la mer Méditerranée, now Mediterranean Science Commission.

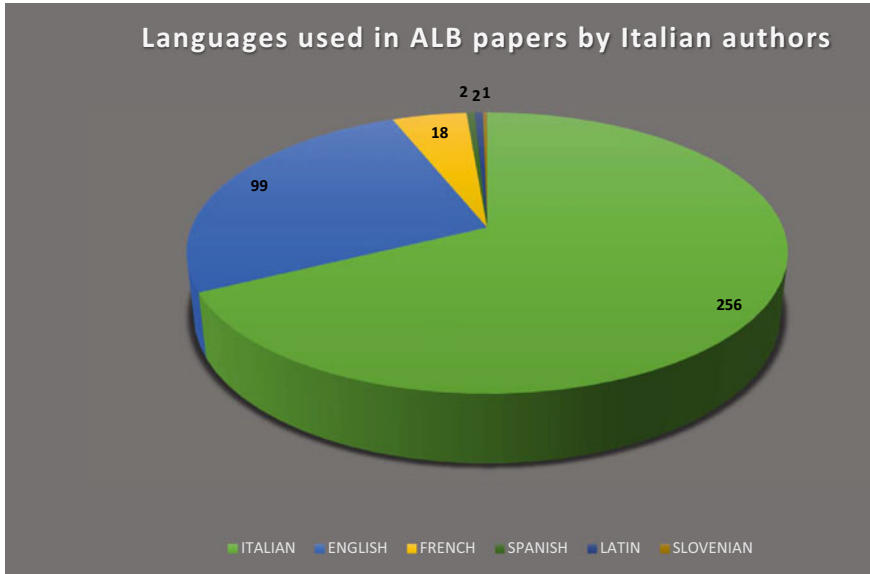


Fig. 2 Graphic proportion of the different languages used by Italian authors in papers related to albacore

the various papers: it is very clear that the central Mediterranean was the most represented, followed by the western Mediterranean, the eastern Mediterranean, and the Black Sea/Marmara Sea.

Most of the documents (295 papers, 78.04%) are related to Italy, 21 to Croatia (5.56%), 19 to Greece (5.03%), 16 to Spain (4.23%), 15 to France (3.97%), and 10 to Algeria and Turkey (2.65%), with minor references to other countries. As concerns the Italian regions, Sicily is the most quoted (105 papers, 27.78%), followed by Apulia (45 papers, 11.9%) and Calabria (36 papers, 9.52%), because these are the regions where the albacore fishery is mostly practised, possibly thanks to the higher presence of this species in the southern Italian seas (Fig. 4).

The fishing methods have also a clear relevance, mirroring the most used ones: the longline fishery is the subject of 149 papers (39.42%), followed by driftnets (101 papers, 26.72%), tuna trap fishery (74 papers, 19.58%), and the purse seines (60 papers, 15.87%), while other fishing gears have minor importance.

43 papers (11.38%) report data on fleets, while statistics are available in 27 papers (7.14%). Catches and yields are also important (165 papers, 43.65%) and therefore the CPUE (60 papers, 15.87%), including the size frequencies/composition (57 papers, 15.08%) and the by-catch issue (52 papers, 13.76%). The impact of the albacore fishery is somehow important on various species and particularly turtles and juvenile swordfish; consequently, 58 papers (15.34%) are dealing with this issue.

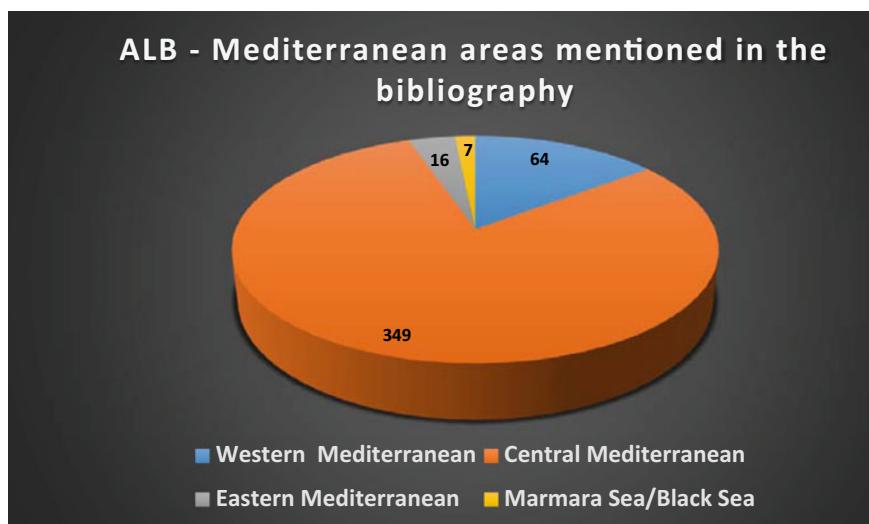
Table 1a Percentages of the different themes included in the annotations to the Italian bibliography on albacore, *Thunnus alalunga* (first part)

Annotations			Annotations		
Themes	No.	%	Themes	No.	%
Nomenclature/Synonyms	40	10.58	Diet	6	1.59
Systematics	29	7.67	Trophic chain	7	1.85
Vernacular names	26	6.88	Stomach contents	8	2.12
Dictionary	4	1.06	Nutritional value	2	0.53
Check-list/Catalogue	10	2.65	Analyses	10	2.65
Bibliography	9	2.38	Sampling/Sample preparation	5	1.32
Morphology	43	11.38	Histology/Cytology and related	2	0.53
Description/characteristics	59	15.61	Genetic	16	4.23
Anatomy	3	0.79	DNA	5	1.32
Misidentification	3	0.79	Genetic erosion	1	0.26
Distribution	53	14.02	Parasites	3	0.79
Migrations	30	7.94	Heavy metals	6	1.59
Tagging	10	2.65	Contaminants	7	1.85
Seasonality	20	5.29	Bioindicators	1	0.26
Populations	5	1.32	Fossils	1	0.26
Behaviour/Ethology	15	3.97	Fleets	43	11.38
Biology	74	19.58	Vessels	26	6.88
Reproductive biology	12	3.17	Fishing gear	66	17.46
Sex ratio	2	0.53	Gear technology	8	2.12
Reproduction	47	12.43	Driftnets/gillnets	101	26.72
Sexual maturity	9	2.38	Longlines	149	39.42
Spawning	18	4.76	Purse-seine	60	15.87
Growth	26	6.88	Traps	74	19.58
Ageing/age determination	13	3.44	Hand lines/troll lines	37	9.79
Age validation	4	1.06	Small-scale or artisanal fishery	33	8.73
Age classes	2	0.53	sport/recreational fishery	22	5.82
Otoliths	5	1.32	Fishing strategy	3	0.79
Spines/Rays	6	1.59	Selectivity	3	0.79
Vertebrae	3	0.79	Gear impact	11	2.91
Larval survey	11	2.91	Data	17	4.50
oocytes/eggs	27	7.14	Landings	10	2.65
Larvae	42	11.11	Catches/Yields	165	43.65

(continued)

Table 1a (continued)

Annotations			Annotations		
Themes	No.	%	Themes	No.	%
YOY/Young-of-the-Year	1	0.26	By-catch	52	13.76
Juveniles	36	9.52	Discards	3	0.79
Recruitment	5	1.32	Fishing effort	2	0.53
Size frequencies/composition	57	15.08	CPUE	60	15.87
Length	29	7.67	Statistics	27	7.14
Weight	23	6.08	Stocks	15	3.97
Length/weight correlation	2	0.53	Stock assessment/status	3	0.79
Length/age correlation	1	0.26	Stock structure/discrimination	4	1.06
Feeding	11	2.91	Populations/population structure	7	1.85

**Fig. 3** Graphic proportion of the different parts of the Mediterranean Sea mentioned in the Italian annotated bibliography on albacore

The description and characteristics of the species are reported in 59 papers (15.61%), the albacore distribution is reported in 53 papers (14.02%), while the biology is obviously very present (74 papers, 14.58%), and in particular reproduction (47 papers, 12.43%), spawning (18 papers, 4.76%), growth (26 papers, 6.88%), and larval studies (42 papers, 11.11%).

History is included in 39 papers (10.32%), traditions are less important than in other tuna fisheries (18 papers, 4.76%), but also fishermen (11 papers, 2.91%). The

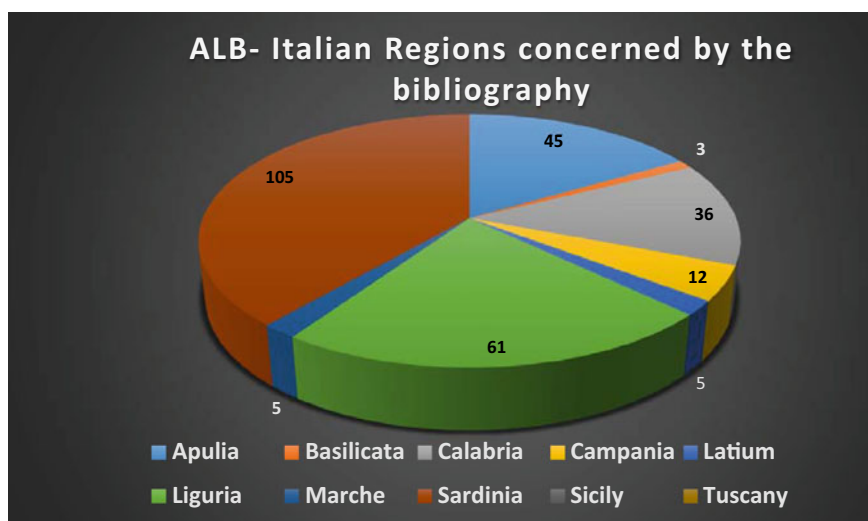
Table 1b Percentages of the different themes included in the annotations to the Italian bibliography on albacore, *Thunnus alalunga* (second part)

Annotations			Annotations		
Themes	No.	%	Themes	No.	%
Multidisciplinary approach	3	0.79	Libya	9	2.38
Models/modelling	3	0.79	Malta	10	2.65
Environment	21	5.56	Montenegro	6	1.59
Oceanography	10	2.65	Morocco	7	1.85
Currents	4	1.06	Slovenia	14	3.70
Pollution	3	0.79	Spain	16	4.23
Conflicts/interferences	5	1.32	Syria	2	0.53
Impact/Impact evaluation	58	15.34	Turkey	10	2.65
Climate/Earthquake impact	1	0.26	Apulia	45	11.90
Management	19	5.03	Basilicata	3	0.79
RFMO(s)	3	0.79	Calabria	36	9.52
ICCAT	6	1.59	Campania	12	3.17
Regulations/Laws	28	7.41	Latium	5	1.32
Rules	7	1.85	Liguria	61	16.14
Royalties	1	0.26	Sardinia	5	1.32
IUU fishery	6	1.59	Sicily	105	27.78
Geography	2	0.53	Industry	13	3.44
Indian Ocean	8	2.12	Canning	4	1.06
Pacific Ocean	11	2.91	Economy	24	6.35
Atlantic Ocean	17	4.50	Market	12	3.17
Mediterranean Sea	378	100.00	Costs	5	1.32
Strait of Gibraltar	1	0.26	Prices	3	0.79
Alboran Sea	1	0.26	Trade	12	3.17
Balearic Sea	5	1.32	Import	5	1.32
Western Mediterranean Sea	6	1.59	Export	4	1.06
Sardinian Sea	10	2.65	Socio-economy	6	1.59
Ligurian Sea	41	10.85	Social aspects	7	1.85
Central Mediterranean Sea	6	1.59	Fishermen	11	2.91
Strait of Sicily	40	10.58	Anthropology	4	1.06
Tyrrhenian Sea	90	23.81	Ethnography	2	0.53
Strait of Messina	30	7.94	Rituals	2	0.53
Ionian Sea	92	24.34	Traditions	18	4.76
Gulf of Taranto	16	4.23	Culture	9	2.38
Adriatic Sea	74	19.58	History	39	10.32

(continued)

Table 1b (continued)

Annotations			Annotations		
Themes	No.	%	Themes	No.	%
Aegean Sea	7	1.85	Archaeology	3	0.79
Levantine Sea	9	2.38	Middle Ages	6	1.59
Black Sea/Marmara Sea	7	1.85	Modern Age	5	1.32
Albania	8	2.12	Phoenicians	5	1.32
Algeria	10	2.65	Greeks	5	1.32
Croatia	21	5.56	Romans	7	1.85
Cyprus	5	1.32	Arabs	5	1.32
Egypt	5	1.32	Legends	4	1.06
France	15	3.97	Myths	4	1.06
Greece	19	5.03	Food safety/consumption	8	2.12
Israel	3	0.79	Nutritional value	2	0.53
Italy	295	78.04	Food habits	3	0.79
Lebanon	3	0.79	Recipes/cooking	4	1.06

**Fig. 4** Graphic proportion of the different Italian regions mentioned in the Italian annotated bibliography on albacore

balance of the various themes is very different from other tuna fisheries, mostly due to the shorter history of this species in the scientific literature and the confusion in the old tuna fisheries.

Table 2 List of the main authors included in the Italian annotated bibliography on albacore (*Thunnus alalunga*).

Ranking	Author	Number of ALB papers
1	Di Natale Antonio	46
2	De Metrio Gregorio	42
3	Piccinetti Corrado	23
4	De Zio Vito	22
4	Rositani Lucio	22
5	Marano Giovanni	20
5	Potoschi Antonio	20
6	Mangano Antonia	16
6	Piccinetti Manfrin Gabriella	17
7	Pastorelli Anna Maria	14
8	Andaloro Franco	12
8	Valastro Massimiliano	12
9	Cacucci Marisa	11
9	Garibaldi Fulvio	11
9	Petrosino Gregorio	11
9	Ungaro Nicola	11
10	Arena Pasquale	10
10	Cefali Antonio	10
10	Orsi Relini Lidia	10

**Other Authors between 9 and 5 papers
(over a total of 429 Authors)**

Deflorio M., Navarra E., Romeo T., Sion L., (9); Cavallaro G., Relini G., Tortonese E., (8); Battaglia P., Giovanardi O., Sturiale P., (7); Acone F., Ferretti M., Fortibuoni T., Vloro A. (6); Corriero A., Lo Duca G., Palmieri G., Sanna L., (5)

Anonymous papers

7

Table 2 shows the ranking of the main Italian authors included in the annotated bibliography on albacore, over a total of 431 Italian authors. Based on the institutional workplace of each author, it is very clear that the main authors are belonging to three of the main research centres targeting the large pelagics in Italy: Messina, Bari, and Bologna, but also with relevant presence of Genova, where Universities and other research institutes were historically located. Among the main authors, there are also most of the Italian national research coordinators for the large pelagics research programmes over the years (Arena, De Metrio, Piccinetti, Orsi Relini, and Di Natale). Anonymous papers are not important for the albacore (just 7 papers, 1.85%).

Due to the high number of references, the Italian annotated bibliography on albacore is provided in Annex 1 to this paper.

4 Conclusions

The list of Italian annotated books, documents, and scientific papers on albacore here provided after the first lists provided by Garibaldi *et al.* (2020) and Di Natale (2020) is still certainly incomplete and we hope that this work may further stimulate scientists to provide additional titles, with the purpose to create in the future a more complete annotated reference literature list to be used by all the researchers working on this species or on related subjects all over the world, for helping them in their work. Furthermore, this bibliography would like to stimulate scientists from other countries to provide similar annotated bibliographies, because surely there are many papers that are not in any of the three main ICCAT languages and that can be very useful for all researchers, if duly annotated.

We are aware that other documents, which are currently not on this list, are still possibly kept in ancient archives, either public or private, sometimes in churches, ancient libraries, notary archives, old company's archives, and in other places. Surely, additional old documents might include also the albacore, without mentioning its current name, due to the systematic confusion in old times. Indeed, this is a never-ending work and, again, we are conscious that this work will be never completed.

The many biological studies, particularly on the reproductive biology of this species, are also very evident in the review here included, along with several studies on the by-catch issue, particularly on juveniles of other species and marine turtles.

As it was mentioned in previous papers (Di Natale, 2018, 2020; Garibaldi *et al.* 2019), in recent years, many scientists and particularly (but not only) young researchers are adopting a sort of "selective" attitude when they set up their papers, avoiding even mentioning papers which were not published in peer-reviewed journals or by scientists who are competing with them or scientists which are not belonging to their research team. This attitude is clearly causing a sort of scientific disaster because there are several very recent papers that are not at all using the knowledge already available before, which sometimes means forgetting the largest part of the scientific knowledge we already have on this species.

Clearly, there is the need to further improve the knowledge on previously available Italian and not-Italian studies on albacore and this annotated review was set up exactly for providing a helping hand to all the researchers working on this species.

Our effort is possibly relevant taking into account the recent ICCAT SCRS³ tentatives for assessing the Mediterranean stock of albacore trials where it is essential to retrieve and use all the existing knowledge on this species.

³ SCRS: Standing Committee for Research and Statistics, which is the ICCAT scientific component.

Annex 1: Annotated Italian Bibliography on Albacore, *Thunnus alalunga* (BFT)

Annotated Italian Bibliography on Albacore

1. Ambrosi L., De Metrio G., Cacucci M., Sion L., Marinelli A., Pesola V., Potoschi A., Cannavò G., Romeo T., Megalofonou P., Yannopoulos C., 2001. Catches of juvenile bluefin tuna (*Thunnus thynnus* L.) and swordfish (*Xiphias gladius* L.) in the Italian seas during the albacore longline fishing season. Final report, EC Project 94/079(continuation): 1–60.
 - (i) Longline fishery, impact on juveniles, by-catch, recruitment, swordfish, *Xiphias gladius*, bluefin tuna, *Thunnus thynnus*, albacore, *Thunnus alalunga*, Sicily, Apulia, Italy, Greece, Tyrrhenian Sea, Ionian Sea, Aegean Sea, Mediterranean Sea.
2. Amori G., Angelici F.M., Frugis S., Gandolfi G., Groppali R., Lanza B., Relini G., Vicini G., 1993. Vertebrata. In Minelli A., Ruffo S., La Posta S. (eds.) Checklist delle specie della fauna Italiana. Calderini Edit., Bologna, 1–83.
 - (i) Italian fauna, vertebrates, checklist, marine species, fish species, bluefin tuna, *Thunnus thynnus*, albacore, *Thunnus alalunga*, swordfish, *Xiphias gladius*, Mediterranean spearfish, *Tetrapturus belone*, roundscale spearfish, *Tetrapturus georgii*, white marlin, *Tetrapturus albidus*, *Kajikia albigata*, Atlantic sailfish, *Istiophorus albicans*, black marlin, *Makaira indica*, *Istiompax indica*, bullet tuna, *Auxis rochei*, Atlantic little tunny, *Euthynnus alletteratus*, skipjack tuna, *Katsuwonus pelamis*, plain bonito, *Orcynopsis unicolor*, Atlantic bonito, *Sarda sarda*, Italy, Ligurian Sea, Tyrrhenian Sea, Sardinian Sea, Strait of Sicily, Ionian Sea, Adriatic Sea, Italian Seas, Mediterranean Sea.
3. Andaloro F., 1991. Riflessioni sul tema. In: Attualità e futuro della pesca in Sicilia. Atti 1° Conferenza Regionale della Pesca, Mazara del Vallo, 27–28 November 1987. Ass. Reg. Coop. Comm. Artig. Pesca, Regione Siciliana, Palermo: 146–151.
 - (i) Trawl fishery, discards, refrigerated products, distribution chain, market problems, industry, small pelagic fisheries, purse-seine fishery, longline fisheries, artisanal fisheries, aquaculture, offshore farms, joint-ventures, bluefin tuna, *Thunnus thynnus*, albacore, *Thunnus alalunga*, swordfish, *Xiphias gladius*, Sicily, Italy, Mediterranean Sea.
4. Andaloro F., 2006. Gruppo di studio ed elementi di base per la gestione dei grandi pelagici. Sottoprogetto—Ruolo trofico del grande pelagico *Thunnus alalunga*, (Bonnaterre, 1788). Rapporto Finale, Ministero per le Politiche Agricole e Forestali: 1–71.

- (i) Fishery, long-line, purse-seine, driftnets, CPUE, biology, reproduction, trophic chain, size frequencies, albacore, *Thunnus alalunga*, Italy, Tyrrhenian Sea, Ionian Sea, Adriatic Sea, Mediterranean Sea.
5. Aniceti, V., 2019. Animals and their roles in the medieval society of Sicily: from Byzantines to Arabs and from Arabs to Norman/Swabians. Doctoral Thesis. Faculty of Art and Humanities, Department of Archaeology, University of Sheffield, U.K.: 1–576.
- (i) History, Romans, Byzantines, Arabs, Normans, Swabians, Middle Ages, food, food habits, taboo, social identity, zooarchaeology, bones identification, ageing, sexing, biometry, vertebrae, bluefin tuna, *Thunnus thynnus*, albacore, *Thunnus alalunga*, Palermo, Mazara del Vallo, Sicily, Italy, Tyrrhenian Sea, Strait of Sicily, Mediterranean Sea.
6. Anonymous, 1824. Collezione delle Leggi e dei Decreti Reali del Regno delle Due Sicilie, anno 1824, semestre 1. Reale Stamperia, Napoli: 188–191. <https://books.google.it/books?id=HmYuAAAAYAAJ&printsec=frontcover&#v=onepage&q&f=false>.
- (i) Rules, laws, regulations, catch and transport declaration, trade, Kingdom of the Two Sicilies, tuna traps, fisheries, bluefin tuna, *Thunnus thynnus*, albacore, *Thunnus alalunga*, swordfish, *Xiphias gladius*, Campania, Basilicata, Calabria, Sicily, Italy, Tyrrhenian Sea, Ionian Sea, Strait of Sicily, Mediterranean Sea.
7. Anonymous, 1827. Collezione delle Leggi e dei Decreti Reali del Regno delle Due Sicilie, anno 1827, semestre 1. Reale Stamperia, Napoli: 141–145. <https://babel.hathitrust.org/cgi/pt?id=njp.32101069168761&view=1up&seq=9>.
- (i) Rules, laws, regulations, catch and transport declaration, trade, Kingdom of the Two Sicilies, tuna traps, fisheries, interaction with other gears, driftnets, time closure, bluefin tuna, *Thunnus thynnus*, albacore, *Thunnus alalunga*, swordfish, *Xiphias gladius*, Campania, Basilicata, Calabria, Sicily, Italy, Tyrrhenian Sea, Ionian Sea, Strait of Sicily, Mediterranean Sea.
8. Anonymous, 1839. Collezione delle Leggi dei Reali Decreti Sovrani rescritti Regolamenti e delle Ministeriali riguardanti la Sicilia dal 1818 al 1838, ordinata in ordo cronologico con note ed osservazioni per lo Barone Rosario Ventimiglia. Stamperia all’Insegna del Leone, Catania, III.
- (i) Rules, laws, regulations, decrees, Kingdom of the Two Sicilies, tuna traps, fisheries, interaction with other gears, conflicts between gear, driftnets, time closure, tuna minimum size, juveniles, by-catch, discards, tuna traps lights, surveillance, compliance, bluefin tuna, *Thunnus thynnus*, albacore, *Thunnus alalunga*, swordfish, *Xiphias gladius*, Sicily, Italy, Tyrrhenian Sea, Ionian Sea, Strait of Sicily, Mediterranean Sea.
9. Anonymous, 1850(?). Sul divieto degli ordegni da pesca denominati alalungare. Memoria dei proprietari delle tonnare di Sicilia. Palermo: 1–43.

- (i) Tuna trap fishery, driftnet fishery, interference between gear, fishery impact, bluefin tuna, *Thunnus thynnus*, albacore, *Thunnus alalunga*, Sicily, Italy, Mediterranean Sea.
10. Anonymous, 1906a. L'industria della Pesca nella Provincia di Siracusa. Camera di Commercio ed Arti, Siracusa, Premiata Tipografia del Tamburo, Siracusa: 1–17.
- (i) Industry, fair exhibit, artisanal fishery, check-list, vernacular names, fisheries, fishing gears, tuna trap fishery, gillnets, driftnets, trawl nets, beach seine, boat seine, economy, costs, bluefin tuna, *Thunnus thynnus*, albacore, *Thunnus alalunga*, Atlantic bonito, palamita, *Sarda sarda*, Atlantic little tunny, literati, cuvariti, *Euthynnus alletteratus*, bullet tuna, sgampirri, *Auxis rochei*, swordfish, *Xiphias gladius*, Siracusa, Sicily, Italy, Ionian Sea, Mediterranean Sea.
11. Anonymous, 2001. Mangiavamo alla marinara. CIRSPE, UNIPROM, API-CIO, Roma: 1–75.
- (i) Description, distribution, fisheries, seasonality, recipes, bluefin tuna, *Thunnus thynnus*, albacore, *Thunnus alalunga*, swordfish, *Xiphias gladius*, Atlantic bonito, *Sarda sarda*, bullet tuna, *Auxis rochei*, Italy, Italian seas, Mediterranean Sea.
12. Anonymous, 2009. Le stagioni dei prodotti ittici del Lazio. MIPAAF, Lega Pesca, Roma: 1–97.
- (i) Description, fisheries, seasonality, nutritional values, bluefin tuna, *Thunnus thynnus*, albacore, *Thunnus alalunga*, swordfish, *Xiphias gladius*, Atlantic bonito, *Sarda sarda*, bullet tuna, *Auxis rochei*, Latium, Italy, Tyrrhenian Sea, Mediterranean Sea.
13. Arcidiacono F., 1935. Contributo alla pesca dell'alalunga nel basso Tirreno e nell'Ionio. Boll. Pesca Piscic. Idrobiol., 11(2): 323–337.
- (i) Longline fishery, gillnet fishery, fishing gear, fisheries, yields, size frequencies, albacore, *Thunnus germo*, *Thunnus alalunga*, Sicily, Calabria, Italy, Tyrrhenian Sea, Ionian Sea, Mediterranean Sea.
14. Arena P., 1981. Osservazioni sulle concentrazioni e sulla pesca del Tonno e dell'Alalunga nelle zone di mare meridionali. Quad. Lab. Tecn. Pesca., 3 (1), suppl.: 77–79.
- (i) Distribution, fisheries, driftnet fishery, long-line fishery, bluefin tuna, *Thunnus thynnus*, albacore, *Thunnus alalunga*, Italy, Tyrrhenian Sea, Ionian Sea, Mediterranean Sea.
15. Arena P., 1986a. Sullo stato e le caratteristiche della pesca in Italia dei grandi Teleostei pelagici (Tonno, Alalunga e Pescespada). Rapporto al Ministero Marina Mercantile, Roma, miméo: 1–17.
- (i) Fleets, vessels, fishery, purse-seine fishery, long-line fishery, trap fishery, driftnet fishery, harpoon fishery, hand-line fishery, recreational fishery, catches, yields, albacore, *Thunnus alalunga*, bluefin tuna, *Thunnus thynnus*, swordfish, *Xiphias gladius*, Apulia, Basilicata, Calabria, Sicily, Campania, Liguria, Italy, Ligurian Sea, Strait of Sicily, Tyrrhenian Sea, Ionian Sea, Adriatic Sea, Mediterranean Sea.

16. Arena P., 1986b. Pesca dei grandi Scombroidei e degli Xifioidei nei mari Italiani. *Nova Thalassia*, 8(3): 657–658.
 - (i) Fishery, purse-seine fishery, long-line fishery, driftnet fishery, harpoon fishery, albacore, *Thunnus alalunga*, bluefin tuna, *Thunnus thynnus*, swordfish, *Xiphias gladius*, Mediterranean spearfish, *Tetrapturus belone*, Italy, Mediterranean Sea.
17. Arena P., 1990. Some biological features of albacore, *Thunnus alalunga* (Bonn.) in the Tyrrhenian Sea. *Collect. Vol. Sci. Pap. ICCAT*, 33: 114–116.
 - (i) Size frequencies, age classes, growth, growth parameters, growth curve, albacore, *Thunnus alalunga*, Italy, Tyrrhenian Sea, Mediterranean Sea.
18. Arena P., 1991. Alcune caratteristiche biologiche dell'alalunga, *Thunnus alalunga* (Bonn.) del Tirreno. *FAO Fish. Rep.*, 449: 116–121.
 - (i) Morphology, size, weight, length, pectoral fin, albacore, *Thunnus alalunga*, Italy, Tyrrhenian Sea, Mediterranean Sea.
19. Arena P., Li Greci F., 1970. Marquages de thonidés en mer Tyrrhénienne. *Journées Ichthyologiques. Les Poissons et le milieu Méditerranéen. Comm. Int. Expl. Scien. Médit.*, Monaco: 115–119.
 - (i) Tagging, conventional tags, migrations, dispersion, bluefin tuna, *Thunnus thynnus*, albacore, *Thunnus alalunga*, Italy, Tyrrhenian Sea, Mediterranean Sea.
20. Arena P., Di Natale A., 1987. Situazione della pesca dei grandi Scombroidei (tonno, alalunga e pesc spada) in Sicilia. *Atti 1° Conferenza Regionale sulla Pesca*, Mazara del Vallo: 40–52.
 - (i) Purse seine fishery, longline fishery, tuna trap fishery, harpoon fishery, hand line fishery, catches, size frequencies, illegal fishery, hand line fishery, fleets, aerial spotting, CPUE, effort, catches, distribution, reproductive biology, juvenile catches, bluefin tuna, *Thunnus thynnus*, albacore, *Thunnus alalunga*, swordfish, *Xiphias gladius*, Sicily, Italy, Mediterranean Sea.
21. Arena P., Cefali A., Potoschi A., 1979. Risultati di studi sulla biologia, la distribuzione e la pesca dei grandi scombroidei nel Tirreno meridionale e nello Ionio. *Mem. Biol. Mar. Ocean.*, X (4): 329–345.
 - (i) Fishery, catch composition, distribution, long-line fishery, driftnet fishery, hand-line fishery, fishery statistics, small tunas, skipjack tuna, *Katsuwonus pelamis*, Atlantic little tunny, *Euthynnus alletteratus*, Atlantic bonito, *Sarda sarda*, bluefin tuna, *Thunnus thynnus*, albacore, *Thunnus alalunga*, swordfish, *Xiphias gladius*, Sicily, Calabria, Italy, Tyrrhenian Sea, Ionian Sea, Mediterranean Sea.
22. Arena P., Potoschi A., Cefali A., 1980. Risultati preliminari di studi sull'età, l'accrescimento e la prima maturità dell'alalunga, *Thunnus alalunga* (Bonn. 1788). *Mem. Biol. Mar. Ocean.*, 10(3): 71–81.
 - (i) Ageing, age determination, scales, length, weight, length–weight correlation, growth, sexual maturity, cytology, albacore, *Thunnus alalunga*, Italy, Tyrrhenian Sea, Mediterranean Sea.

23. Arena P., Cefali A., Potoschi A., 1981. Contributions sur la connaissance de la morphologie et de la biologie du germon, *Thunnus alalunga* (Bonn.) de la Méditerranée. Rapp. Comm. Int. Mer Médit., 27 (5): 155–158.
 - (i) Ageing, age determination, scales, length, weight, length–weight correlation, growth, sexual maturity, cythology, albacore, *Thunnus alalunga*, Italy, Tyrrhenian Sea, Mediterranean Sea.
24. Assenza V., 1928. Dizionario zoologico siciliano-italiano scientifico della maggior parte degli animali della Sicilia (Mammiferi, Uccelli, Rettili, Anfibi, Pesci, Molluschi, Insetti, Ragni, Miriapodi, Vermi e Celenterati) con i relativi nomi dei principali vernacoli dell’Isola. Tip. G. Maltese Abela, Modica: 1–217.
 - (i) Dictionary, zoology, nomenclature, vernacular names, mammals, birds, reptiles, amphibians, fish, molluscs, insects, spiders, myriapods, worms, coelenterates, bluefin tuna, *Thunnus thynnus*, albacore, *Thunnus alalunga*, skipjack tuna, *Katsuwonus pelamis*, Atlantic little tunny, *Euthynnus alletteratus*, frigate tuna, *Auxis thazard*, swordfish, *Xiphias gladius*, Mediterranean spearfish, *Tetrapturus belone*, Sicily, Italy, Tyrrhenian Sea, Ionian Sea, Mediterranean Sea.
25. Astraldi M., Borghini M., Cima C., Fabiano M., Galli L., Garibaldi F., Lanteri L., Licandro P., Marzi E., Misic C., Palandri G., Orsi Relini L., Relini G., Relini M., Spanò S., Vetrano A., 2007. Dominio pelagico. Il santuario dei cetacei “Pelagos”. Ministero dell’ambiente e della tutela del territorio e del Mare in collaborazione con il Museo Friulano di Storia Naturale. Quaderni Habitat, 16: 1–155.
 - (i) Pelagic environment, marine ecology, marine biology, oceanography, currents, trophic chains, microplankton, mesoplankton, micronekton, macronekton, nyctemeral displacements, cephalopods, crustaceans, fish species, cetaceans, turtles, seabirds, management, conservation, marine protected areas, fisheries, catches, bluefin tuna, *Thunnus thynnus*, albacore, *Thunnus alalunga*, Atlantic bonito, *Sarda sarda*, Atlantic little tunny, *Euthynnus alletteratus*, bullet tuna, *Auxis rochei*, skipjack tuna, *Katsuwonus pelamis*, swordfish, *Xiphias gladius*, Mediterranean spearfish, *Tetrapturus belone*, white marlin, *Kajikia albidus*, Pelagos Sanctuary, Italy, France, Monaco, Ligurian Sea, Mediterranean Sea.
26. Bacchella A., 2005. Pesci del Mediterraneo. Gribaudo Edit., Cavallermaggiore: 1–214.
 - (i) Description, morphology, images, bluefin tuna, *Thunnus thynnus*, albacore, *Thunnus alalunga*, swordfish, *Xiphias gladius*, Mediterranean spearfish, *Tetrapturus belone*, Atlantic bonito, *Sarda sarda*, bullet tuna, *Auxis rochei*, Atlantic little tunny, *Euthynnus alletteratus*, skipjack tuna, *Katsuwonus pelamis*, Italy, Italian seas, Mediterranean Sea.
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- (i) Artisanal fishery, small-scale fishery, fishing gears, fleets, catches, CPUE, socio-economy, costs, revenues, longline fishery, driftnet fishery, bluefin tuna, *Thunnus thynnus*, albacore, *Thunnus alalunga*, swordfish, *Xiphias gladius*, Aeolian Islands, Sicily, Italy, Tyrrhenian Sea, Mediterranean Sea.
28. Bellini L., 1996. Struttura genetica delle popolazioni. Progetto coordinato di ricerca Grandi Pelagici. Report to: Direzione Genertale Pesca e Acquacoltura, Ministero delle Risorse Agricole, Alimentari e Forestali, Roma: 1–82.
- (i) Genetic investigation, population structure, electrophoresis, loci, alleles, genetic diversity, genetic distance, genetic flux, bluefin tuna, *Thunnus thynnus*, albacore, *Thunnus alalunga*, swordfish, *Xiphias gladius*, Atlantic bonito, *Sarda sarda*, greater amberjack, *Seriola dumerili*, dolphin fish, *Coryphaena hippurus*, Sardinian Sea, Ligurian Sea, Strait of Sicily, Tyrrhenian Sea, Strait of Messina, Ionian Sea, Adriatic Sea, Mediterranean Sea.
29. Bello G. 1999. Cephalopods in the diet of albacore, *Thunnus alalunga*, from the Adriatic Sea. J. Moll. Stud., 65: 233–240. <https://doi.org/10.1093/mollus/65.2.233>.
- (i) Feeding, stomach content, cephalopods, albacore, *Thunnus alalunga*, Apulia, Italy, Adriatic Sea, Mediterranean Sea.
30. Berdar A., Mento G., Costa F., Ammendolia G., Panebianco A., Ioli V., 1995. Riflessioni sulla pesca tra Scilla e Cariddi. Previsioni popolari del tempo, metodiche, parassitosi, anomalie, alterazioni scheletriche, curiosità. Jason Edit., Reggio Calabria: 1–190.
- (i) Religion, traditions, history, earthquakes, weather forecast, moon phases, currents, salt plants, fishing gears, vessels, fishery, harpoon fishery, hand line fishery, driftnet fishery, coral fishery, sponge fishery, parasites, natural marks, bluefin tuna, *Thunnus thynnus*, swordfish, *Xiphias gladius*, albacore, *Thunnus alalunga*, frigate tuna, *Auxis thazard*, Atlantic little tunny, *Euthynnus alletteratus*, cookie-cutter shark, *Isistius brasilensis*, Sicily, Calabria, Italy, Strait of Messina, Mediterranean Sea.
31. Biagi F., 2012. The EU Data Collection Framework: sampling of large pelagic species in the Mediterranean Sea. SCRS/2011/P/011J (1–15). In: 2011 GBYP Workshops on Aerial Surveys, and Operational Meetings on Biological Sampling and on Tagging of Bluefin Tuna (Madrid, Spain, February 14–18, 2011). Collect. Vol. Sci. Pap., ICCAT, 68(1): 63.
- (i) Data Collection Framework (DCF), Data Collection Regulation (DCR), fisheries, biological data, age, sex, maturity, fecundity, size frequencies, length, weight, catches, sampling protocols, national plans, dolphin fish, *Coryphaena hippurus*, *Coryphaena equiselies*, bluefin tuna, *Thunnus thynnus*, albacore, *Thunnus alalunga*, Atlantic bonito, *Sarda sarda*, swordfish, *Xiphias gladius*, Istiophoridae, Cyprus, France, Greece, Italy, Malta, Slovenia, Spain, European Union, Mediterranean Sea.

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- (i) Fish distribution, biology, reproduction, populations, migrations, juveniles, oceanography, environmental conditions, description, iconography, bibliography, yellowfin tuna, *Neuthunnus macropterus*, *Thunnus albacares*, skipjack tuna, *Katsuwonus pelamis*, eastern Pacific bonito, *Sarda chiliensis*, albacore, *Thunnus germon*, *Thunnus alalunga*, Chile, Peru, Pacific Ocean.
33. Bini G., 1965. Catalogo dei nomi dei pesci, dei molluschi e dei crostacei di importanza commerciale del Mediterraneo. FAO, Vito Bianco Edit., Roma: 1–408.
- (i) Catalogue, scientific names, common names, fish, molluscs, crustaceans, bluefin tuna, *Thunnus thynnus*, albacore, *Thunnus alalunga*, swordfish, *Xiphias gladius*, Mediterranean spearfish, *Tetrapturus belone*, Atlantic bonito, *Sarda sarda*, plain bonito, *Orcynopsis unicolor*, Atlantic little tunny, *Euthynnus alletteratus*, skipjack tuna, *Katsuwonus pelamis*, frigate tuna, *Auxis thazard*, Mediterranean Sea.
34. Bini G., 1968. Atlante dei pesci delle coste italiane. Mondo Sommerso Edizioni, Roma, VI: 49–50.
- (i) Systematics, nomenclature, vernacular names, morphology, biology, reproduction, feeding, distribution, seasonality, migration, fishery, fishing techniques, larvae, albacore, *Thunnus alalunga*, Italy, Italian seas, Mediterranean Sea.
35. Bombace G., 1965. Preliminary report on fish distribution and marketing in Sicily and on the advisability of a comparison with the marketing chain in other Mediterranean countries. Studies and Reviews, General Fishery Commission for the Mediterranean, Rome, FAO, 28.
- (i) Fisheries, demersal species, pelagic species, large pelagic species, landings, distribution, markets, bluefin tuna, *Thunnus thynnus*, albacore, *Thunnus alalunga*, swordfish, *Xiphias gladius*, bullet tuna, *Auxis rochei*, Atlantic bonito, *Sarda sarda*, Sicily, Italy, Mediterranean Sea.
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- (i) Nomenclature, systematics, iconography, Italian fauna, Vertebrates, Mammifers, Birds, Amphibians, Fish, bluefin tuna, *Thunnus thynnus*, swordfish, *Xiphias gladius*, albacore, *Thunnus alalunga*, Mediterranean spearfish, *Tetrapturus belone*, bullet tuna, *Auxis rochei*, skipjack tuna *Euthynnus alletteratus*, Atlantic bonito, *Sarda sarda*, Atlantic little tunny, *Katsuwonus pelamys*, plain bonito, wahoo, narrow-barred Spanish mackerel, *Scomberomorus commerson*, Italian seas, Mediterranean Sea, European seas.
37. Bonaparte C.L.J.L., 1846. Catalogo metodico dei Pesci europei. Stamperia del Fibreno, Napoli: 1–97.

- (i) Nomenclature, systematics, bluefin tuna, *Thunnus thynnus*, swordfish, *Xiphias gladius*, albacore, *Thunnus alalunga*, Mediterranean spearfish, *Tetrapturus belone*, bullet tuna, *Auxis rochei*, Atlantic little tunny, *Euthynnus alletteratus*, Atlantic bonito, *Sarda sarda*, skipjack tuna, *Katsuwonus pelamis*, plain bonito, wahoo, narrow-barred Spanish mackerel, *Scomberomorus commerson*, Italian seas, Mediterranean Sea, European seas.
38. Bonicioli, G., 1909. Manuale pratico per la pesca di mare ad uso dei pescatori dalmati, istriani e triestini, Hrvatska Tiskara, (Sebenico).
- (i) Fisheries, marine fisheries, small-scale fisheries, gillnets, lines, beach seines, purse-seines, coastal tuna traps, bluefin tuna, *Thunnus thynnus*, albacore, *Thunnus alalunga*, Atlantic little tunny, *Euthynnus alletteratus*, Croatia, Italy, Gulf of Trieste, Adriatic Sea, Mediterranean Sea.
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- (i) Trap fishery, historical catches, catch trend, by-catch, pelagic species, pelagic fish, pelagic sharks, dolphins, marine turtles, bluefin tuna, *Thunnus thynnus*, albacore, *Thunnus alalunga*, swordfish, *Xiphias gladius*, bullet tuna, *Auxis rochei*, Atlantic little tunny, *Euthynnus alletteratus*, Atlantic bonito, *Sarda sarda*, Milazzo, Sicily, Italy, Tyrrhenian Sea, Mediterranean Sea.
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- (i) Parasites, Copepods, catalog, systematics, infections, fish species, *Philichthys xiphiae*, *Pennella crassicornis*, *Pennella filose*, *Chondracanthus cornutus*, *Brachiella ramose*, *Elytrophora brachyptera*, *Cecrops latreillei*, *Pseudocycnus appendiculatus*, *Braghiella thynni*, *Caligus alalongae*, *Caligus pelamydis*, bluefin tuna, *Thynnus thynnus*, *Thunnus thynnus*, albacore, *Thynnus alalonga*, *Thunnus alalonga*, skipjack tuna, *Thynnus pelamis*, *Katsuwonus pelamis*, Atlantic bonito, *Pelamis sarda*, *Sarda sarda*, swordfish, *Xiphias gladius*, Italy, Mediterranean Sea.
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- (i) Oceanography, marine fishery, fishing technology, fishing gear, tuna trap fishery, driftnet fishery, harpoon fishery, longline fishery, catches, vessels, statistics, regulations, description, bluefin tuna, *Thunnus thynnus*, albacore, *Thunnus alalunga*, swordfish, *Xiphias gladius*, Atlantic little tunny, *Euthynnus alletteratus*, frigate tuna, *Auxis thazard*, Atlantic bonito, *Sarda sarda*, skipjack tuna, *Katsuwonus pelamis*, plain bonito, *Orcynopsis unicolor*, Italy, Italian seas, Mediterranean Sea.
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- (i) Description, dimensions, distribution, fish, amphibians, reptiles, bluefin tuna, *Thunnus thynnus*, albacore, *Thunnus alalunga*, swordfish, *Xiphias gladius*, Mediterranean spearfish, *Tetrapturus belone*, skipjack tuna, *Euthynnus pelamis*, *Katsuwonus pelamis*, frigate tuna, *Auxis thazard*,

- Atlantic little tunny, *Euthynnus alletteratus*, Italy, Italian seas, Mediterranean Sea.
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- (i) Morphology, description, spawning season, distribution, trap fishery, eggs, larvae, bluefin tuna, *Thunnus thynnus*, swordfish, *Xiphias gladius*, albacore, *Thunnus alalunga*, Mediterranean spearfish, *Tetrapturus belone*, Atlantic bonito, *Sarda sarda*, plain bonito, *Orcynopsis unicolor*, Atlantic little tunny, *Euthynnus alletteratus*, skipjack tuna, *Euthynnus pelamys*, *Katsuwonus pelamis*, frigate tuna, *Auxis thazard*, Liguria, Ligurian Sea, Mediterranean Sea.
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- (i) Investigation, questionnaires, enquires, fishermen's perception, conservation measures, management, quota system, effort regulation, closed areas, closed seasons, hook size, minimum size, MPAs, fishery economy, technical measures, regulations, artisanal fishery, longline fishery, driftnet fishery, gillnet fishery, bluefin tuna, *Thunnus thynnus*, albacore, *Thunnus alalunga*, swordfish, *Xiphias gladius*, Greece, Italy, France, Spain, Mediterranean Sea.
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- (i) Fish catalog, systematic, fisheries, coastal trap fishery, systematic, nomenclature, vernacular names, bluefin tuna, *Thunnus vulgaris*, *Thunnus thynnus*, albacore, *Thynnus alalunga*, *Thunnus alalunga*, swordfish, *Xiphias gladius*, Mediterranean spearfish, *Tetrapturus belone*, bullet tuna, *Auxis bisus*, *Auxis rochei*, Atlantic bonito, *Pelamys sarda*, *Sarda sarda*, Atlantic little tunny, *Thynnus thunnina*, *Euthynnus alletteratus*, Italy, Slovenia, Croatia, Montenegro, Albania, Greece, Adriatic Sea, Mediterranean Sea.
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- (i) Sampling programme, research, fishing gears, fleets, harbours, statistics, data collection, size frequencies, bluefin tuna, *Thunnus thynnus*, albacore, *Thunnus alalunga*, swordfish, *Xiphias gladius*, Mediterranean spearfish, *Tetrapturus belone*, Atlantic bonito, *Sarda sarda*, Italy, Italian seas, Mediterranean Sea.
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- (i) Historical tuna fishery, old coastal traps, tuna trap fishery, traditions, specola, fishing technology, catches, traps locations, bluefin tuna, *Thunnus thynnus*, albacore, *Thunnus alalunga*, Atlantic little tunny, *Euthynnus alletteratus*, Atlantic bonito, *Sarda sarda*, bullet tuna, *Auxis rochei*, Italy, Slovenia, Gulf of Trieste, Adriatic Sea, Mediterranean Sea.
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- (i) Anthropology, ethnography, tuna morphology, tuna migrations, tuna ethology, tuna reproduction, tuna spawning, traditions, myths, legends, religion, songs, cialoma, crew, Rais, fishermen, trap divers, tuna traps, trap technology, trap vessels, trap setting, tuna harvesting, mattanza, tuna industry, tuna canning, tuna in oil, salted tuna, dried tuna, tuna products, stomach, hearth, fillets, bottarga, trap history, traps list, traps locations, glossary in Italian, glossary in Spanish, bibliography, filmography, by-catch, dolphins, manta rays, sunfish, pelagic sharks, marine turtles, bluefin tuna, *Thunnus thynnus*, swordfish, *Xiphias gladius*, albacore, *Thunnus alalunga*, Mediterranean spearfish, *Tetrapturus belone*, skipjack tuna, *Katsuwonus pelamis*, Atlantic little tunny, *Euthynnus alletteratus*, yellowfin tuna, *Thunnus albacares*, southern bluefin tuna, *Thunnus maccoyii*, Pacific bluefin tuna, *Thunnus orientalis*, longtail tuna, *Thunnus tonggol*, blackfin tuna, *Thunnus atlanticus*, Sardinia, Sicily, Campania, Tuscany, Italy, Spain, Morocco, Portugal, France, Croatia, Turkey, Algeria, Tunis, Libya, Malta, Sardinian Sea, Strait of Sicily, western Mediterranean Sea, central Mediterranean Sea, Adriatic Sea, Levantine Sea, Marmara Sea, Mediterranean Sea, Atlantic Ocean.
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Comprehensive Italian Annotated Bibliography on Small Tunas

Antonio Di Natale, Corrado Piccinetti,
Piero Addis, Fulvio Garibaldi, and Fausto Tinti



A. Di Natale (✉)

Aquastudio Research Institute, Via Trapani 6, 98121 Messina, Italy
e-mail: adinatale@acquariodigenova.it

C. Piccinetti

Laboratorio di Biologia Marina e Pesca, University of Bologna in Fano, Viale Adriatico 1,
61032 Fano (PU), Italy
e-mail: corrado.piccinetti@unibo.it

P. Addis

Dipartimento di Scienze Della Vita e dell' Ambiente, University of Cagliari, Via Fiorelli 1,
09126 Cagliari, Italy
e-mail: addisp@unica.it

F. Garibaldi

Laboratory of Fish and Fishery Biology, Department of Earth, Environment and Life Sciences
(DISTAV), University of Genova, Palazzo Delle Scienze, Corso Europa 26, 16132 Genova, Italy
e-mail: fulvio.garibaldi@unige.it

Abstract

Italian scientists have a long tradition of studies and research on many large pelagic species including, among others, the small tunas. The various small tuna species are important for the Italian fishery since many centuries, mostly from a socio-economical point of view. Some non-indigenous species are now present in the ICCAT Convention area. This list includes the many papers published so far by Italian scientists, concerning the biology of these species, the fisheries and many other scientific and cultural issues. The aim of this paper is to provide as much as possible a comprehensive annotated bibliography, with specific keywords in English, even if it is surely incomplete, because of the many papers published over the years. This bibliography, updated till 2020, includes 394 annotated citations, and it was set up together to serve the scientists and to help them in finding some rare references that might be useful for their work.

Keywords

Acanthocybium solandri • Annotated bibliography • Atlantic bonito • Atlantic little tunny • Atlantic Ocean • *Auxis rochei* • *Auxis thazard* • Biology • Black Sea • Black skipjack • Bullet tuna • Catches • Dogtooth tuna • Driftnets • Distribution • Economy • *Euthynnus lineatus* • *Euthynnus alletteratus* • Feeding • Fisheries • Frigate tuna • *Gymnosarda unicolor* • History • Indian mackerel • *Katsuwonus pelamis* • King mackerel • Longlines • Mediterranean Sea • Migrations • Narrow-barred Spanish mackerel • Nomenclature • *Orcynopsis unicolor* • Plain bonito • *Rastrelliger kanagurta* • Reproduction • *Sarda sarda* • *Scomberomorus commerson* • *Scomberomorus cavalla* • *Scomberomorus tritor* • Skipjack tuna • Small-scale fishery • Systematics • Techniques • Technology • Tuna traps • West African Spanish mackerel • Wahoo

F. Tinti

Laboratory Genetics & Genomics of Marine Resources & Environment (GenoDREAM),
Department Biological, Geological & Environmental Sciences, University of Bologna, via
Sant'Alberto 163, 48100 Ravenna, Italy

e-mail: fausto.tinti@unibo.it

1 Foreword

This paper was prepared for providing an annotated overview of the Italian literature on small tunas (FAO code: SMT), including Atlantic bonito, *Sarda sarda* (Bloch, 1793) (FAO code: BON), bullet tuna, *Auxis rochei* (Risso, 1810) (FAO code: BLT), frigate tuna, *Auxis thazard* (Lacépède, 1800) (FAO code: FRI), Atlantic little tunny, *Euthynnus alletteratus* (Rafinesque, 1810) (FAO code: LTA), black skipjack, *Euthynnus lineatus* (Kishinouye, 1912) (FAO code: BKJ), plain bonito, *Orcynopsis unicolor* (Geoffroy Saint-Hilaire, 1817) (FAO code: BOP), skipjack tuna, *Katsuwonus pelamis* (Linnaeus, 1758) (FAO code: SKJ), narrow-barred Spanish mackerel, *Scomberomorus commerson* (Lacépède, 1800) (FAO code: COM), West African Spanish mackerel, *Scomberomorus tritor* (Cunier, 1832) (FAO code: MAW), wahoo, *Acanthocybium solandri* (Cunier, 1832) (FAO code: WAH), king mackerel, *Scomberomorus cavalla* (Cunier, 1829) (FAO code: SSM), Indian mackerel, *Rastrelliger kanagurta* (Cuvier, 1816) (FAO code: RAG) and dogtooth tuna, *Gymnosarda unicolor* (Rüppell, 1836) (FAO code: DOT). Most of these species are part of the Italian fishery culture since historical times, having an important socio-economic interest, while others are immigrant, vagrant or occasional species. Many papers were written in Italian, a language which is not in the list of the three officially used in ICCAT¹ (English, French and Spanish), and possibly some scientists have problems in understanding the contents.

Another reason for providing this Italian annotated bibliography is because many papers are not available in electronic format. Therefore, some young researchers, who are not used to studying and mining in traditional libraries anymore, could be likely unable to detect the studies that have been carried out so far on the many aspects of these species over the years or even centuries.

However, as a matter of fact, most of the modern studies on small tunas in the Mediterranean area have Italian, Spanish, Greek, Turkish or Arabic authors, even if Italian authors are the majority. Therefore, it is a sort of national pride to provide the Italian annotated bibliography on small tunas published till 2020,² annotating them with a large variety of keywords in English for improving the opportunities to detect them with an electronic searching engine.

Furthermore, a similar dedicated and comprehensive work is not already available at all for these species, even if some papers were included in the fundamental annotated bibliography on tuna species provided by Corwin (1930) and later updated by Van Campen and Hoven (1956). More recently, Di Natale (2018) and Piccinetti et al. (2020) provided a preliminary attempt of Italian annotated bibliography on the small tuna species. An indexed bibliography, limited to tagging and including some of the species here considered, was published by Bayliff (1993).

¹ ICCAT: International Commission for the Conservation of Atlantic Tunas.

² Or, in few cases, published even in the first part of 2021, but submitted in 2020.

Not-annotated literature reviews, including also small tuna species, were provided by Cavanna (1880), Morović (1950), Collette and Nauen (1983), Cavallaro (1996), Cau and Andaloro (1996), Orsi Relini *et al.* (1996), Pillai and Mallia (2007) and, limited to the tuna trap fishery papers where these species are by-catch, by Di Natale (2012, 2018).

Besides the high socio-economic importance of these fisheries in all coastal countries, the number of scientific papers by Italian authors is not mirroring their relevance, because the small tunas are often neglected even by some scientists working on large pelagic species.

2 Criteria

The bibliography on small tuna species included in this work was selected when an Italian scientist was the only author of a paper or when one or more Italian scientists were among the authors of collective papers.

This was the primary criterium used for selecting the many titles, independently if they were peer-reviewed papers, books, not-peer-reviewed papers, papers presented in conferences or meetings or congresses, reports to public administrations or project reports. A secondary criterion for paper selection considered those documents directly related to the several target species (Atlantic bonito, bullet tuna, frigate tuna, Atlantic little tunny, black skipjack, plain bonito, skipjack tuna, narrow-barred Spanish mackerel, West African Spanish mackerel, Wahoo, king mackerel, Indian mackerel and dogtooth tuna), even if, in some cases, the various small tuna species or one of them was concerned by just a part of the text.

The immigrant and vagrant species, which are now present in the Mediterranean Sea, have been included in this review, even if they are partly included in the SCRS³ ICCAT list (see the most recent list published by the SCRS Small Tunas Species Group, Anonymous, 2020).

For the very ancient papers, we reported the first edition that it was possible to find, independently from the date of the original work. When vernacular names or old scientific names were used in the original paper, they were possibly listed in the annotation. The annotations required each paper to be checked in detail and this implied an additional and huge workload. One of the major problems for this additional list was the need to homogenise the style of all citations, which were reported under many different styles, particularly when dealing with old bibliographic citations. Apparently, this fact can appear as a minor problem, but it required a very important amount of work and time.

The annotations show the main subjects in the content, and we mostly used the descriptors proposed by ASFIS (Fagetti *et al.*, 2009), adding additional descriptors when necessary. As concerns the main species included in each reference, we used both the international common name(s) and the Latin name(s).

³ SCRS: Standing Committee for Research and Statistics.

3 Discussion

The large number of titles which are now available surely constitutes a very useful and unique reference list for all the researchers working on small tunas (Atlantic bonito, bullet tuna, frigate tuna, Atlantic little tunny, black skipjack, plain bonito, skipjack tuna, narrow-barred Spanish mackerel, West African Spanish mackerel, Wahoo, king mackerel, Indian mackerel and dogtooth tuna), and it includes also some extremely rare papers or manuscripts on various subjects. The opportunities provided by the web improved the number of available articles on these species and their fisheries.

This Italian annotated bibliography required again an amount of work and a lot of attention, because several documents were published not only by marine scientists, but also by historians, archaeologists, economists, sociologists, literates and journalists, making the search very wide and difficult, certainly very multidisciplinary. Even limiting the bibliography to the works where an Italian scientist was among the authors, the number of citations that it was possible to discover so far is very important, being anyway conscious that the list is certainly incomplete and, possibly, it can never be complete. In many cases, while checking a document, it was possible to discover additional literature citations that were previously not available, transforming a part of this work as a continuous journey following Ariadne's thread.

At the same time, during this difficult bibliographic search, it was amazing to learn so many details about these species, because some of them are exploited since historical ancient times. Going through the various titles (and the text behind) in the bibliography, it is possible to find important information on many aspects of the various species, because some of them are very important for the coastal communities and their subsistence since historical times, such as the Atlantic bonito or the bullet tuna.

This work is providing and listing 394 papers (Fig. 1). The oldest paper was written by Apicius (second century BC, then republished in 1498), including the Atlantic bonito, while the second oldest was written by Plinius (possibly in 65 AD, re-edited in 1553), including the Atlantic bonito, the bullet tuna and the Atlantic little tunny. In total, 10 papers (2.54%) were published before the nineteenth century, but sometimes it was impossible to duly identify if a specific small tuna species was included in other old papers, because the descriptions were not so clear. Then, 8 papers were published in the first part of the nineteenth century, peaking up to 27 papers in the last part of the same century. 54 papers were published between 1900 and 1949, but between 1910 and 1939 there was a good production of scientific papers on small tunas (11 in the first decade, 16 in the '10s, 10 in the '20s and 13 in the '30s), mostly due to the many research activities carried out by the Institute of Zoology of the University of Messina, by the University of Bologna and several scientists from various Italian Universities. Between 1940 and 1949, the number of papers decreased to the minimum of 4, due to the Second World War.

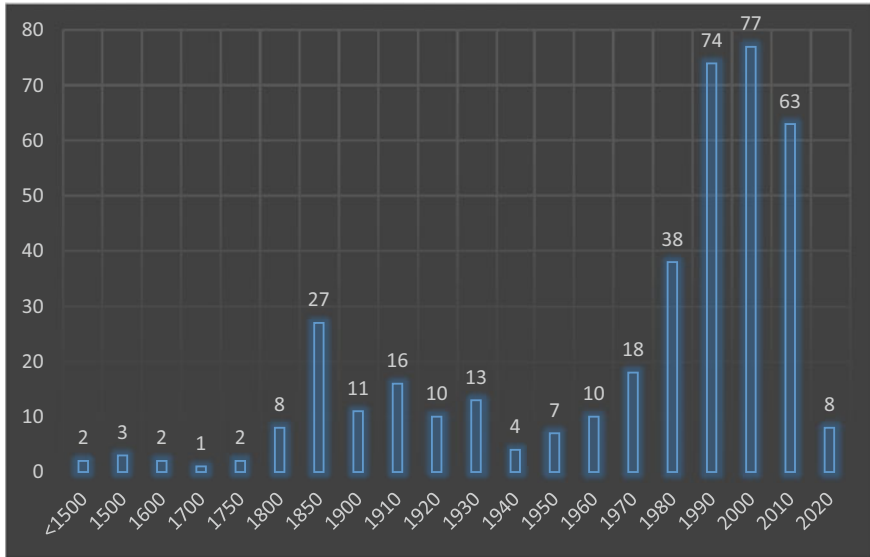


Fig. 1 Number of the papers published on small tuna species by Italian authors over the years (from before 1500 to 2020)

An increase of the Italian scientific production on small tunas initiated just after the Second World War, slowly growing over the decades: 7 in the '50s, 10 in the '60s, 18 in the '70s, for growing much more in the '80s, when the first national triennial research plan was adopted by the former Italian Ministry of Merchant Marine⁴. It was followed by a series of triennial research plans, with an Italian coordinated scientific activity on large pelagic species, till the year 2002, with the scientific production jumping from 38 papers in the '80s to 74 papers in the '90s. Then, most of the research activities were further enhanced by the EC Data Collection Programme, followed by the EC Data Collection Framework, which is still active; a peak of 77 papers were published during the years 2000–2009, while 63 papers have been published in the last decade. 8 papers have been published in 2020.

Most of the papers (268 documents, 68.02%) are in Italian, thus causing an issue in the accessibility and readability in recent times. These papers were published when the Italian language was mandatory, or when foreign languages were not used, or because they were Italian official domestic reports. For these papers, the current annotation in English now allows all researchers better understand the contents. The remaining 31.98% of the papers are written in other 6 languages, being those in English the majority (104 papers, 26.4%), 10 papers (2.54%) are in

⁴ Now the Ministry of Agriculture, Food and Forestry Policies (MIPAAF).

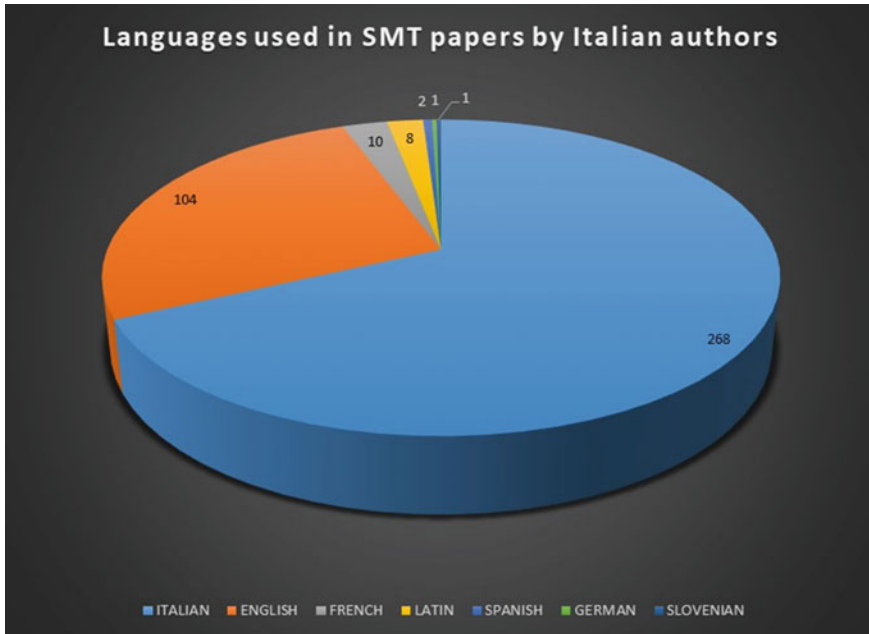


Fig. 2 Graphic proportion of the different languages used by Italian authors in papers related to small tunas

French, because French was the language most used by the CIESM⁵, where many Italian scientists were participating from the '60s, 8 papers and books (2.03%) are in Latin, a classical language that was used by many authors till the eighteenth century, 2 papers (0.51%) are in Spanish, thanks to the cooperation with Spanish colleagues, while other two papers are, respectively, in German and Slovenian. Figure 2 provides a graphic image of the languages used by the Italian authors in papers on small tunas that are listed in the annotated bibliography.

The annotation allows identifying most of the many themes included in each paper. Tables 1a and 1b show the most relevant themes in the annotations, and it is interesting to see how many aspects of the small tunas “world” the various Italian authors have examined over the centuries. Most of the papers are specifically related to the Mediterranean Sea (386, equal to 97.97%), while the Atlantic Ocean is mentioned in 31 papers (7.87%), the Pacific Ocean is mentioned in 13 papers (3.3%) and the Indian Ocean is mentioned in 10 papers (2.54%). Within the Mediterranean Sea and the adjacent areas, the Tyrrhenian Sea is in 104 papers (26.4%), the Ionian Sea is in 69 papers (17.51%), the Adriatic Sea is in 56 papers (14.21%), the Ligurian Sea is in 48 papers (12.18%), the Strait of Sicily and the

⁵ CIESM: Commission Internationale pour l'Exploration Scientifique de la Méditerranée, now Mediterranean Science Commission.

Table 1a. Frequencies of the different themes included in the annotations to the Italian bibliography on small tunas (first part)

Annotations			Annotations		
Theme	No.	%	Theme	No.	%
Nomenclature/synonyms	48	12.18	Length/weight correlation	5	1.27
Systematics	24	6.09	Length or weight-at-age	1	0.25
Vernacular names	28	7.11	Feeding	11	2.79
Dictionary/glossary	5	1.27	Diet	7	1.78
Bibliography	5	1.52	Trophic or food chain	11	2.79
Check-list/catalogue	6	1.27	Stomach contents	7	1.78
Small tunas	36	9.14	Nutritional value	1	0.25
Atlantic bonito	272	69.04	Fish/flesh quality	4	1.02
Atlantic little tunny	170	43.15	Analyses	13	3.30
Atlantic Spanish mackerel	1	0.25	Genetic	17	4.31
Black skipjack	4	1.02	DNA	15	3.81
Bullet tuna	198	50.25	Genetic erosion	1	0.25
Dogtooth tuna	3	0.76	Contaminants	9	2.28
Frigate tuna	52	13.20	Bioaccumulation	5	1.27
King mackerel	2	0.51	Heavy metals	9	2.28
Narrow-barred Spanish mackerel	15	3.81	Fleets	24	6.09
Plain bonito	51	12.94	Vessels	20	5.08
Skipjack tuna	114	28.93	Fishing strategy	1	0.25
Wahoo	19	4.82	Fishing gear	27	6.85
West African Spanish mackerel	8	2.03	Fishing or gear technology	21	5.33
Morphology	46	11.68	Driftnets/gillnets	80	20.30
Description/identification	56	14.21	Longlines	75	19.04
Distribution	66	16.75	Purse seine/seine	73	18.53
Migrations	34	8.63	Harpoon	40	10.15
Seasonality	19	4.82	Traps	269	68.27
Populations	8	2.03	Hand line/Troll line	43	10.91
Behaviour/Ethology	16	4.06	Sport/recreational fishery	13	3.30
Biology	78	19.80	Small-scale or artisanal fishery	29	7.36
Reproductive biology	19	4.82	Gear conflicts	5	1.27

(continued)

Table 1a. (continued)

Annotations			Annotations		
Sex-ratio	2	0.51	Gear impact	25	6.35
Reproduction	41	10.41	Gear selectivity	1	0.25
Sexual maturity	10	2.54	Landings	7	1.78
Gonads	3	0.76	Catches/yields	81	20.56
Spawning	19	4.82	By-catch	22	5.58
Growth	35	8.88	CPUE	24	6.09
Ageing	7	1.78	Data	19	4.82
Age determination	2	0.51	Statistics	32	8.12
Otoliths	7	1.78	Stocks	6	1.52
Otolith/length correlation	1	0.25	Stock or status assessment	7	1.78
Dorsal rays/spines	3	0.76	Stock structure	10	2.54
Vertebrae	4	1.02	Models/modelling	3	0.76
Larval survey	14	3.55	Tagging	9	2.28
Eggs/larvae	69	17.51	Electronic/Satellite tagging/PSAT	3	0.76
Juveniles	29	7.36	Multidisciplinary approach	3	0.76
YOY	2	0.51	Environment	19	4.82
Size frequencies	24	6.09	Oceanography	12	3.05
Length	19	4.82	Tides	1	0.25
Weight	17	4.31	Currents	9	2.28

Strait of Messina are both in 34 papers each (8.63% each) due either to the migrations or the fishery, the Black Sea/Marmara Sea is in 17 papers (4.31%) and the Aegean Sea is in 11 papers (2.79%), while other areas in the Mediterranean Sea are less represented. Figure 3 shows the different parts of the Mediterranean concerned by the various papers: it is very clear that the central Mediterranean was the most represented, followed by the western Mediterranean, the eastern Mediterranean and the Black Sea/Marmara Sea.

As concerns the countries, Italy is obviously the most mentioned (293 papers, 74.37%), but all other Mediterranean countries are also mentioned in many papers. At the regional scale, Sicily, possibly one of the main Italian fishing areas for most of the small tuna species, is in 70 papers (17.77%), followed by Liguria (34 papers, 8.63%), Calabria (28 papers, 7.11%), Apulia and Campania (21 papers each, 5.33% each) and then the other Regions are less represented (Fig. 4).

The fishing methods have also a clear relevance: the trap fishery is the subject of 269 papers (68.27%), followed by the driftnets (80 papers, 20.3%), longlines (75 papers, 19.04%), purse-seines (73 papers, 18.53%), hand lines (43 papers, 10.91%), harpoon fishery (40 papers, 10.15%), the small-scale/artisanal fisheries

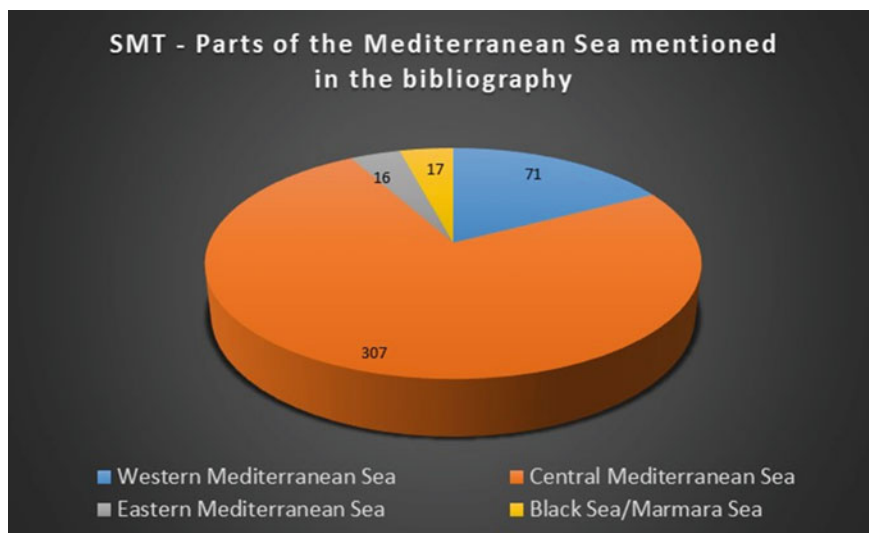
Table 1b. Frequencies of the different themes included in the annotations to the Italian bibliography on small tunas (second part)

Annotations			Annotations		
Theme	No.	%	Theme	No.	%
Moon or lunar effects	2	0.51	Spain	17	4.31
Pollution	2	0.51	Tunisia	13	3.3
Conflict with other activities	4	1.02	Turkey	14	3.55
Earthquake impact	1	0.25	Apulia	21	5.33
Management	13	3.30	Calabria	28	7.11
RFMO(s)	5	1.27	Campania	21	5.33
ICCAT	8	2.03	Liguria	34	8.63
FAO	2	0.51	Sardinia	3	0.76
Regulations/laws	13	3.30	Sicily	70	17.77
Minimum size	2	0.51	Tuscany	4	1.02
Rules/rights	4	1.02	Economy	23	5.84
Royalties/privileges	4	1.02	Markets	16	4.06
Geography	4	1.02	Farming/fattening	4	1.02
Indian Ocean	10	2.54	Harvesting	2	0.51
Pacific Ocean	13	3.30	Industry/industrial fishery	17	4.31
Atlantic Ocean	31	7.87	Canning	8	2.03
Mediterranean Sea	386	97.97	Tuna oil	1	0.25
Strait of Gibraltar	2	0.51	Salted products	8	2.03
Alboran Sea	2	0.51	Salt plants/salt pan/saline	5	1.27
Balearic Sea	5	1.27	Pharmacologic use	1	0.25
Western Mediterranean Sea	5	1.27	Trade	9	2.28
Sardinian Sea	9	2.28	Import	10	2.54
Ligurian Sea	48	12.18	Export	3	0.76
Central Mediterranean Sea	6	1.52	Socio-economy	4	1.02
Strait of Sicily	34	8.63	Social aspects	10	2.54
Tyrrhenian Sea	104	26.40	Fishermen	18	4.57
Strait of Messina	34	8.63	Rais	6	1.52
Ionian Sea	69	17.51	Anthropology/ethno-anthropology	7	1.78
Adriatic Sea	56	14.21	Culture	15	3.81
Aegean Sea	11	2.79	Rituals	3	0.76
Levantine Sea	5	1.27	Traditions	26	6.60

(continued)

Table 1b. (continued)

Annotations			Annotations		
Black Sea/Marmara Sea	17	4.31	Architecture	3	0.76
Albania	9	2.28	History/Historical fisheries	59	14.97
Algeria	13	3.30	Archaeology	1	0.25
Bosnia and Herzegovina	3	0.76	Middle Ages	6	1.52
Croatia	27	6.85	Modern Age	3	0.76
Cyprus	8	2.03	Phoenicians	4	1.02
Egypt	5	1.27	Greeks	4	1.02
France	16	4.06	Romans	6	1.52
Greece	24	6.09	Arabs	3	0.76
Italy	293	74.37	Legends	8	2.03
Lebanon	5	1.27	Myths	6	1.52
Libya	11	2.79	Beliefs	1	0.25
Malta	12	3.05	Food habits	8	2.03
Montenegro	8	2.03	<i>Garum</i>	4	1.02
Morocco	8	2.03	Recipes	10	2.54
Slovenia	24	6.09	Cooking/gastronomy	7	1.78

**Fig. 3** Graphic proportion of the different parts of the Mediterranean Sea mentioned in the Italian annotated bibliography on small tunas

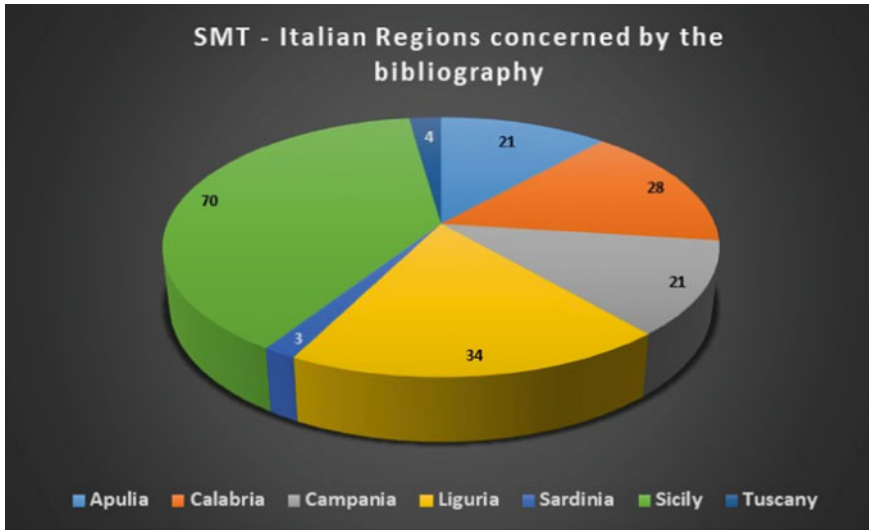


Fig. 4 Graphic proportion of the different Italian regions mentioned in the Italian annotated bibliography on small tunas

(29 papers, 7.36%) and the sport/recreational fisheries (13 papers, equal to 3.3%). Conflicts with other activities are mentioned in 4 papers (1.02%), while various impacts caused by the gears are mentioned in 25 papers (6.35%); by-catch is reported in 22 papers (5.58%). Catches and yields are obviously important (81 papers, 20.56%), including the size frequencies/composition (24 papers, 6.09%), statistics (32 papers, 8.12%) and the CPUE⁶ (24 papers, 6.09%). The distribution is reported in 66 papers (16.75%), the description in 56 papers (14.21%), the nomenclature in 48 papers (12.18%) and migrations are reported in 34 papers (8.63%).

The biology is very present (78 papers, 19.8%), and in particular the reproduction (41 papers, 10.41%), the reproductive biology and spawning (19 papers each, 4.82% each) and the genetic studies (17 papers, 4.31%). The environment is a relevant theme (19 papers, 4.82%), along with the oceanography (12 papers, 3.05%) and, even more, the economy (23 papers, 5.84%). Traditions are important (26 papers, 6.6%) but fishermen too (18 papers, 4.57%). History is not only another very important theme (59 papers 14.97%) but also culture in general (15 papers, 3.81%).

As concerns the species, the Atlantic bonito is the most relevant species (272 papers, 69.04%), followed by the bullet tuna (198 papers, 50.25%), the Atlantic little tunny (170 papers, 43.15%), the skipjack tuna (114 papers, 28.93%), the frigate tuna (52 papers, 13.2%) and the plain bonito (51 papers, 12.94%), while

⁶ CPUE: Catch Per Unity Effort.

all other species have a much lower number of papers and related percentages. Generic “small tunas” are reported in 36 papers (9.14%).

The interest of the small tunas as food is also evident from the literature: 10 papers (2.54%) include recipes, 8 papers (2.03%) deal with the food habits, 7 papers (1.78%) deal with gastronomy or cooking, while 4 papers (1.02%) are reporting the ancient use of small tunas for *garum* sauce purposes.

Table 2 shows the ranking of the main authors included so far in the Italian annotated bibliography on small tunas, over 487 Italian authors. Based on the institutional workplace of each author, it is very clear that the main authors belong to the four main research centres targeting the large pelagics in Italy: Messina, Bologna-Fano, Genova and Bari, where universities and other research institutions were historically located. Among the main authors, there are most of the Italian

Table 2 List of the main authors included in the Italian annotated bibliography on small tunas

Ranking	Author	Number of SMT papers
1	Di Natale Antonio	47
2	Orsi Relini Lidia	32
3	Garibaldi Fulvio	24
4	De Metrio Gregorio	21
4	Piccinetti Corrado	20
5	Andaloro Franco	19
6	Mangano Antonia	15
7	Piccinetti Manfrin Gabriella	14
8	Palandri Giovanni	13
8	Relini Giulio	13
9	Lanteri Lucio	12
10	Navarra Enrico	11
11	Vacchi Marino	10
11	Valastro Massimiliano	10
12	Giovanardi Otello	9
12	Relini Marco	9
12	Santamaria Nicoletta	9
12	Tunesi Leonardo	9

Other Authors (between 8 and 5 papers) over a total of 487 Italian Authors

Azzurro E., D’Onghia G., Fiorentino F., Sanzo L., Serena F., Silvestri R., Tiralongo F., Tortonese E. (8); Cacucci M., Cattaneo Vietti R., Cima C., Deflorio M., Fortibuoni T., IREPA (7); Ferretti M., Potoschi A., Raicevich S., Sion L. (6); Bava S., Catanese G., Cavallaro G., Cefali A., Celona A., Sella M., Tinti F. (5)

Anonymous author(s)

4

national research coordinators for the large pelagics over the years (De Metro, Piccinetti, Orsi Relini and Di Natale). The number of anonymous papers is minimal (4 papers, equal to 1.02%).

Due to the high number of references, the Italian annotated bibliography on small tunas is provided in **Annex 1** of this paper.

4 Conclusions

The list of Italian annotated books, documents and scientific papers on small tunas here provided is still certainly incomplete. We hope that this work may further stimulate scientists to provide additional titles, with the purpose to create in the future a complete annotated reference literature list to be used by all the researchers working on these important species or on related subjects all over the world, for helping them in their work.

Many documents, which are currently not in the list, are still certainly kept in ancient archives, either public or private, sometimes in churches, ancient libraries, notary archives, old companies' archives and in other unknown places. We are also aware that the families of old tuna trap owners still keep many other documents and, besides the long efforts, it was possible to recover only a very small number of these important archives. It is almost sure that other Italian scientific papers on small tunas do exist, but it was not possible to find them during this investigation effort. Indeed, this is a never-ending work and, again, it should be conscious that this work would never be completed.

The small tunas are very important for the subsistence and the economy of several coastal communities, but their fisheries suffered various impacts. The traditional tuna traps, which were also catching small tunas (particularly in small traps) are now surviving just in a few sites in Italy, while the driftnets, that were broadly used for catching several small tuna species, are now banned since 2002, even if some small-scale ones are still used in a few fisheries. The broad distribution of the landing sites and the difficulties for studying the biology and behaviour of these species are among the reasons for limited availability of the studies over the centuries, particularly if compared with more iconic tuna and tuna-like species. Anyway, the small tunas have been always among the species studied by Italian specialists in this field.

Many biological studies are also very represented in the Italian annotated bibliography on small tunas, even if foreign scientists published several other papers on the same subjects. Furthermore, in recent decades, several papers were published on many other peculiar scientific aspects, such as the contamination, and this was made possible by advanced techniques and technologies.

The availability of annotated papers, documents or books on small tunas is particularly important because of their relevance for all studies concerning climate change (particularly in the Mediterranean area) and the distribution of migrant and vagrant species, because some of them have been documented even in papers published in the nineteenth century and included in this annotated bibliography.

In recent years, many scientists and particularly (but not only) young researchers are adopting a sort of selective attitude when they write their papers, avoiding even to mention papers which were not published in peer-reviewed journals or by scientists who are competing with them or scientists who are not belonging to their research team. And also some peer-reviewed journals are a part of this situation, often imposing to mention only peer-reviewed papers to the various Authors. As was already noted, this attitude is clearly causing a sort of scientific disaster, because there are several very recent papers that are not at all using the knowledge available before, and this approach sometimes means forgetting the largest part of the scientific knowledge we already have. Therefore, not considering the papers previously available is fundamentally a non-scientific approach, which is able to create important biases.

In recent peer-reviewed papers, quite often it is possible to read observations described as “new”, when they were already available in old papers. Unfortunately, this unacceptable attitude, which is far from any good (or even normal!) scientific approach, is every year more commonly adopted, mostly for academic career reasons, for improving the impact factor and the citation index (two academic scoring factors which were theoretically reasonable, that are now resulting in several fundamental distortions in many cases; see Di Natale *et al.*, 2020). Following this absurd approach (strongly recommended by many scientific editors and journals), even Pliny the older, Aristotle, Oppianus, Linnaeus, Darwin, Mendel and all the old authors cannot be included in the bibliography of the most modern scientific papers because their works were published without referees! It is certainly an extreme and provocative example, but it fits well in many recent situations.

Particularly in ICCAT SCRS, the Italian scientific papers are very rarely used or mentioned: this is possibly caused by the fact that many of them were written in Italian, which is not an ICCAT official language, but obviously, this is not a justification from a scientific point of view.

Clearly, there is the need to improve the knowledge on previously available Italian studies on small tunas, and this annotated review was made exactly for providing a helping hand to all the colleagues working on these species.

Annex 1: Italian Annotated Bibliography on Small Tunas (SMT)

1. Aldrovandi U., 1638. De Piscibus et de Cetis. Tip. Nicola Tebaldi, Bologna, V: 1–359.
 - i. Morphology, fishery, bluefin tuna, *Thunnus thynnus*, swordfish, *Xiphias gladius*, Atlantic bonito, *Sarda sarda*, skipjack tuna, *Katsuwonus pelamis*, bullet tuna, *Auxis rochei*, Mediterranean Sea.
2. Amico V., 1855–1856. Dizionario Topografico della Sicilia. Tip. Di Pietro Morvillo, Palermo: 1–636 + 1–673 + 23 tables.
 - i. Geography, tuna traps, trap locations, bluefin tuna, *Thunnus thynnus*, Atlantic bonito, *Sarda sarda*, Sicily, Italy, Mediterranean Sea.

3. Amori, G., Angelici F.M., Frugis S., Gandolfi G., Groppali R., Lanza B., Relini G., Vicini G., 1993. Vertebrata. In A. Minelli, S. Ruffo and S. La Posta (eds.) Checklist delle specie della fauna Italiana. Calderini Edit., Bologna: 1–83.
 - i. Italian fauna, vertebrates, checklist, marine species, fish species, bluefin tuna, *Thunnus thynnus*, albacore, *Thunnus alalunga*, swordfish, *Xiphias gladius*, Mediterranean spearfish, *Tetrapturus belone*, roundscale spearfish, *Tetrapturus georgii*, white marlin, *Tetrapturus albidus*, *Kajikia albida*, Atlantic sailfish, *Istiophorus albicans*, Black marlin, *Makaira indica*, *Istiompax indica*, bullet tuna, *Auxis rochei*, Atlantic little tunny, *Euthynnus alletteratus*, skipjack tuna, *Katsuwonus pelamis*, plain bonito, *Orcynopsis unicolor*, Atlantic bonito, *Sarda sarda*, Italy, Ligurian Sea, Tyrrhenian Sea, Sardinian Sea, Strait of Sicily, Italy, Ionian Sea, Adriatic Sea, Italian seas, Mediterranean Sea.
4. Andaloro F., 2000. Valutazione delle risorse e studio della biologia ed ecologia della ricciola (*Seriola dumerili*) ed alletterato (*Euthynnus alletteratus*) in mar Tirreno meridionale e nello stretto di Sicilia. Rapporto al Ministero per le Politiche Agricole e Forestali, DGPA. Roma: 1–107.
 - i. Catch composition, growth, reproduction, ecology, reproductive biology, purse-seine fishery, driftnet fishery, hand line fishery, Atlantic little tunny, *Euthynnus alletteratus*, greater amberjack, *Seriola dumerili*, Sicily, Italy, southern Tyrrhenian Sea, Straits of Sicily, Mediterranean Sea.
5. Andaloro F., Porrello S., Marino G., Finioia M.G., Vivona P., Salvatori L., Pizzicori P., Titone G., Di Stefano G., Azzurro E., Sturiale P., Mandich A., Massari A., Potoschi A., Vignolo E., Secci E., Campagnuolo S., Adamo P., Cevasco F., Pipitone C., Consiglio V., 1996. Valutazione delle risorse: grandi pelagici. Rapporto al Ministero per le Politiche Agricole e Forestali, DGPA. Roma: 1–76.
 - i. Fishing gears, driftnet fishery, hand-line fishery, troll line fishery, purse-seine fishery, encircling nets, fishing effort, yields, catches, catch composition, biology, growth, reproduction, histochemistry, histology, female gonads, oocytes, male gonads, diet, stomach content, feeding, Atlantic little tunny, *Euthynnus alletteratus*, greater amberjack, *Seriola dumerili*, Sicily, Italy, southern Tyrrhenian Sea, Straits of Sicily, Strait of Messina, Ionian Sea, Mediterranean Sea.
6. Andaloro F., Vivona P., Campagnuolo S., Pipitone C., Potoschi A., Mandich A., Marino G., 1998. Biologia e pesca dell'alletterato, *Euthynnus alletteratus* (Rafinesque, 1910) nei mari siciliani. Biol. Mar. Medit. 5 (3): 290–299.
 - i. Catch composition, growth, reproduction, ecology, reproductive biology, purse-seine fishery, driftnet fishery, hand line fishery, Atlantic little tunny, *Euthynnus alletteratus*, Sicily, Italy Tyrrhenian Sea, Ionian Sea, Straits of Sicily, Mediterranean Sea.
7. Anonymous, 1906a. L'industria della Pesca nella Provincia di Siracusa. Camera di Commercio ed Arti, Siracusa, Premiata Tipografia del Tamburo, Siracusa: 1–17.

- i. Industry, fair exhibit, artisanal fishery, check-list, vernacular names, fisheries, fishing gears, tuna trap fishery, gillnets, driftnets, trawl nets, beach seine, boat seine, economy, costs, bluefin tuna, *Thunnus thynnus*, albacore, alalonga, *Thunnus alalunga*, Atlantic bonito, palamita, *Sarda sarda*, Atlantic little tunny, literati, cuvariti, *Euthynnus alletteratus*, bullet tuna, sgampirri, *Auxis rochei*, swordfish, *Xiphias gladius*, Siracusa, Sicily, Italy, Ionian Sea, Mediterranean Sea.
8. Anonymous, 2001. Mangiavamo alla marinara. CIRSPE, UNIPROM, API-CIO, Roma: 1–75.
 - i. Description, distribution, fisheries, seasonality, recipes, bluefin tuna, *Thunnus thynnus*, albacore, *Thunnus alalunga*, swordfish, *Xiphias gladius*, Atlantic bonito, *Sarda sarda*, bullet tuna, *Auxis rochei*, Italy, Italian seas, Mediterranean Sea.
9. Anonymous, 2009. Le stagioni dei prodotti ittici del Lazio. MIPAAF, Lega Pesca, Roma: 1–97.
 - i. Description, fisheries, seasonality, nutritional values, bluefin tuna, *Thunnus thynnus*, albacore, *Thunnus alalunga*, swordfish, *Xiphias gladius*, Atlantic bonito, *Sarda sarda*, bullet tuna, *Auxis rochei*, Latium, Italy, Tyrrhenian Sea, Mediterranean Sea.
10. Anonymous, 2013. Rapporto Annuale sulla Pesca e sull' Acquacoltura in Sicilia 2012. Assessorato delle Risorse Agricole e Alimentari, Dipartimento degli Interventi per la Pesca, Regione Sicilia, Palermo: 1–191. <https://iris.unipa.it/retrieve/handle/10447/101505/133861/33892338.PDF>.
 - i. Fleets, fisheries, ports, fishing gears, distribution, trawlers, set nets, artisanal fishery, recreational fishery, longliners, fishery management, regulation, conflicts, EU CFP, blue economy, industry, work security, labour, environment, impacts, juveniles, IUU, bluefin tuna, *Thunnus thynnus*, swordfish, *Xiphias gladius*, Atlantic bonito, *Sarda sarda*, Sicily, Italy, Turkey, Tunisia, Tyrrhenian Sea, Ionian Sea, Strait of Sicily, Marmara Sea, Levantine Sea, Mediterranean Sea.
11. Apicius C., II b.C. (re-edited in 1498). Apicius in re quoquinaria (Liber IX, Qui Thalassa appellatur; Liber X, Qui Halieus appellatur). Guilermum Signerre Rothomagensis, Milan: 1–42.
 - i. History of cooking, Romans, recipes, cooking, food habits, sauces, salted tuna, *liquamen*, *garum*, bluefin tuna, *Thunnus thynnus*, Atlantic bonito, *Sarda sarda*, Rome, Italy, Mediterranean Sea.
12. Arena P., 1964. Missione di studio sulla pesca in Africa Occidentale. Rapporto al Centro Sperimentale della Pesca, Messina: 1–85.
 - i. Experimental fishery, exploratory fishery, fishery research, bottom trawl fishery, coastal fishery, pelagic fishery, skipjack tuna, *Katsuwonus pelamis*, Atlantic little tunny, *Euthynnus alletteratus*, albacora, *Thunnus albacores*, bigeye, *Thunnus obesus*, Morocco, Mauritania, Senegal, Gulf of Guinea, Nigeria, West Africa, Atlantic Ocean.
13. Arena P., 1986. Pesca dei grandi Scombroidei e degli Xifioidei nei mari Italiani. *Nova Thalassia*, 8 (3): 657–658.

- i. Tunas and billfishes fisheries, small tuna fishery, purse-seine fishery, long-line fishery, driftnet fishery, hand-line fishery, skipjack tuna, *Katsuwonus pelamis*, Atlantic little tunny, *Euthynnus alletteratus*, Atlantic bonito, *Sarda sarda*, bluefin tuna, *Thunnus thynnus*, albacore, *Thunnus alalunga*, swordfish, *Xiphias gladius*, Mediterranean spearfish, *Tetrapturus belone*, Italy, Italian seas, Mediterranean Sea.
14. Arena P., Cefali A., Potoschi A., 1979. Risultati di studi sulla biologia, la distribuzione e la pesca dei grandi scombroidi nel Tirreno meridionale e nello Ionio. Mem. Biol. Mar. Ocean., X (4): 329–345.
- i. Fishery, catch composition, distribution, long-line fishery, driftnet fishery, hand-line fishery, fishery statistics, small tunas, skipjack tuna, *Katsuwonus pelamis*, Atlantic little tunny, *Euthynnus alletteratus*, Atlantic bonito, *Sarda sarda*, bluefin tuna, *Thunnus thynnus*, albacore, *Thunnus alalunga*, swordfish, *Xiphias gladius*, Sicily, Calabria, Italy, Tyrrhenian Sea, Ionian Sea, Mediterranean Sea.
15. Assenza V., 1928. Dizionario zoologico siciliano-italiano scientifico della maggior parte degli animali della Sicilia (Mammiferi, Uccelli, Rettili, Anfibi, Pesci, Molluschi, Insetti, Ragni, Miriapodi, Vermi e Celenterati) con i relativi nomi dei principali vernacoli dell'Isola. Tip. G. Maltese Abela, Modica: 1–217.
- i. Dictionary, zoology, nomenclature, vernacular names, mammals, birds, reptiles, amphibians, fish, molluscs, insects, spiders, myriapods, worms, coelenterates, bluefin tuna, *Thunnus thynnus*, albacore, *Thunnus alalunga*, skipjack tuna, *Katsuwonus pelamis*, Atlantic little tunny, *Euthynnus alletteratus*, frigate tuna, *Auxis thazard*, swordfish, *Xiphias gladius*, Mediterranean spearfish, *Tetrapturus belone*, Sicily, Italy, Tyrrhenian Sea, Ionian Sea, Mediterranean Sea.
16. Astraldi M., Borghini M., Cima C., Fabiano M., Galli L., Garibaldi F., Lanteri L., Licandro P., Marzi E., Misic C., Palandri G., Orsi Relini L., Relini G., Relini M., Spanò S., Vetrano A., 2007. Dominio pelagico. Il santuario dei cetacei "Pelagos". Ministero dell'ambiente e della tutela del territorio e del Mare in collaborazione con il Museo Friulano di Storia Naturale. Quaderni Habitat, 16: 1–155.
- i. Pelagic environment, marine ecology, marine biology, oceanography, currents, trophic chains, microplankton, mesoplankton, micronekton, macronekton, nycthemeral displacements, cephalopods, crustaceans, fish species, cetaceans, turtles, seabirds, management, conservation, marine protected areas, fisheries, catches, bluefin tuna, *Thunnus thynnus*, albacore, *Thunnus alalunga*, Atlantic bonito, *Sarda sarda*, Atlantic little tunny, *Euthynnus alletteratus*, bullet tuna, *Auxis rochei*, skipjack tuna, *Katsuwonus pelamis*, swordfish, *Xiphias gladius*, Mediterranean spearfish, *Tetrapturus belone*, white marlin, *Kajikia albidus*, Italy, France, Monaco, Pelagos Sanctuary, Ligurian Sea, Mediterranean Sea.

17. Azzurro E., Moschella P., Maynou F. 2011. Tracking signals of change in Mediterranean fish diversity based on local ecological knowledge. *PLoS ONE* 6 (9): e24885. <https://doi.org/10.1371/journal.pone.0024885>.
 - i. Global change, climate change, ecological impacts, variability of abundance, distribution variability, fishermen's observations, bluefin tuna, *Thunnus thynnus*, bullet tuna, *Auxis rochei*, Atlantic bonito, *Sarda sarda*, Italy, Spain, Italian seas, Catalanian Sea, Mediterranean Sea.
18. Azzurro E., Sbragaglia V., Cerri J., Bariche M., Bolognini L., Ben Souissi J., Busoni G., Coco S., Antoniadou C., Fanelli E., Ghanem R., Garrabou J., Gianni F., Grati F., Kolitari J., Guglielmo L., Lovrenc L., Mazzoldi C., Milone N., Pannacciulli F., Pešić A., Samuel-Rhoads Y., Saponari L., Tomanic J., Topcu N.E., Vargiu G., Moschella P., 2019. Climate change, biological invasions, and the shifting distribution of Mediterranean fishes: a large-scale survey based on local ecological knowledge. *Glob. Chang. Biol.* 25 (8): 2779–2792. <https://doi.org/10.1111/gcb.14670>.
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- i. Description, distribution, images, photos, fish, molluscs, crustaceans, jellyfish, marine turtles, invertebrates, algae, vegetables, bluefin tuna, *Thunnus thynnus*, swordfish, *Xiphias gladius*, Atlantic bonito, *Sarda sarda*, Italy, Italian seas, Mediterranean Sea.
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- i. Habitats, communities, Flora, Fauna, climate, oceanography, sediments, fisheries, small traps, bluefin tuna, *Thynnus thynnus*, *Thunnus thynnus*, swordfish, *Xiphias gladius*, Atlantic bonito, *Sarda sarda*, bullet tuna, *Auxis rochei*, frigate tuna, *Auxis thazard*, Atlantic little tunny, *Euthynnus alletteratus*, Rovigno, Croatia, northern Adriatic Sea.
389. Vinci S., 2018. La gestione delle risorse ittiche nello specchio marino di Taranto: profili storico-giuridici. In: Mastroberti F., Ingavello I., Governo e diritti dello spazio marino adriatico-ionico: storia e prospettive. Editoriale Scientifica, Napoli: 135–152.
- i. Fishery laws, rules, regulations, fishing rights, royalties, privileges, custom rights, history, Middle Ages, Modern Age, aquaculture, fishery economy, fisheries, fishing gears, driftnets, bluefin tuna, *Thunnus thynnus*, Atlantic bonito, *Sarda sarda*, Taranto, Apulia, Italy, Gulf of Taranto, Ionian Sea, Mediterranean Sea.
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- i. Historical tuna fishery, old coastal traps, tuna trap fishery, traditions, specola, fishing technology, catches, traps locations, bluefin tuna, *Thunnus thynnus*, albacore, *Thunnus alalunga*, little tunny, *Euthynnus alletteratus*, Atlantic bonito, *Sarda sarda*, bullet tuna, *Auxis rochei*, Timavo, Italy, Slovenia, Gulf of Trieste, North-East Adriatic Sea, Mediterranean Sea.
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- i. Phosphoric acid, guanidine, creatine, phosphocreatine, phosphoarginine, muscle tissue, fishes, bullet tuna, *Auxis bisus*, *Auxis rochei*, Mediterranean Sea.
393. Zambenardi A., 2020. Calar tonnara. Etnografia di una maricoltura mediterranea, PhD Thesis, Ciclo XXXI, Scienze Psicologiche Antropologiche e dell'Educatione, Dipartimento di Culture, politiche e Società, Università degli Studi di Torino, and Doctorado en Ciencias Económicas, Empresariales y Sociales, Departamento de Antropología Social, Universidad de Sevilla, Tip. Eco 2000, Torino: 1–537.
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traps locations, glossary in Italian, glossary in Spanish, bibliography, filmography, by-catch, dolphins, manta rays, sunfish, pelagic sharks, marine turtles, bluefin tuna, *Thunnus thynnus*, swordfish, *Xiphias gladius*, albacore, *Thunnus alalunga*, Mediterranean spearfish, *Tetrapturus belone*, skipjack tuna, *Katsuwonus pelamis*, Atlantic little tunny, *Euthynnus alletteratus*, yellowfin tuna, *Thunnus albacares*, southern bluefin tuna, *Thunnus maccoyii*, Pacific bluefin tuna, *Thunnus orientalis*, longtail tuna, *Thunnus tonggol*, blackfin tuna, *Thunnus atlanticus*, Sardinia, Sicily, Campania, Tuscany, Italy, Spain, Morocco, Portugal, France, Croatia, Turkey, Algeria, Tunis, Libya, Malta, Sardinian Sea, Strait of Sicily, western Mediterranean Sea, central Mediterranean Sea, Adriatic Sea, Levantine Sea, Marmara Sea, Mediterranean Sea, Atlantic Ocean.

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The Comprehensive Italian Annotated Bibliography on Tropical Tunas

Antonio Di Natale



Abstract

The Italian scientists have a long tradition of studies and research on the many large pelagic species, including also the tropical tuna species. Even if tropical tunas are important for the Italian industry since more than a century, they

A. Di Natale (✉)

Aquastudio Research Institute, Via Trapani 6, 98121 Messina, Italy

e-mail: adinatale@acquariodigenova.it

were only occasionally studied by Italian researchers. This paper attempts to list together the papers published so far by Italian scientists, concerning the biology of these species, the fisheries and many other scientific and cultural issues. The aim of this paper is to provide an annotated bibliography, with specific keywords in English, even if the bibliography is surely incomplete, because some papers are very difficult to be find. This annotated bibliography, which includes 88 papers, was set together to serve the scientists and help them in finding even some rare references that might be useful for their work.

Keywords

Acanthocybium solandri • Annotated bibliography • Atlantic Ocean • Bigeye tuna • Biology • Black skipjack • Blackfin tuna • Canning industry • Catches • Cero • Contaminants • Eastern Pacific bonito • Economy • *Euthynnus affinis* • *Euthynnus lineatus* • Feeding • Fishery • Food safety • Genetics • History • Indian mackerel • Indian Ocean • Kawakawa • King mackerel • *Katsuwonus pelamis* • Longlines • Longtail tuna • Mediterranean Sea • Migrations • Nomenclature • Narrow-barred Spanish mackerel • Pacific Ocean • Purse-seines • Reproduction • *Rastelliger kanagurta* • *Sarda chiliensis* • *Scomberomorus brasiliensis* • *Scomberomorus cavalla* • *Scomberomorus commerson* • *Scomberomorus regalis* • *Scomberomorus tritor* • Serra Spanish mackerel • Skipjack tuna • Southern bluefin tuna • Systematics • Techniques • Technology • *Thunnus albacares* • *Thunnus atlanticus* • *Thunnus maccoyii* • *Thunnus obesus* • *Thunnus tonggol* • Tropical tunas • Tuna industry • Wahoo • West African Spanish mackerel • Yellowfin tuna

1 Foreword

Several species belonging to the tropical tunas have been traded since the early beginning of the twentieth century by the Italian canning industries, mostly for increasing the tuna availability on the domestic market. They also raised the curiosity of some Italian scientists when they had the opportunity to carry out research campaigns in tropical waters, particularly at the time when Italy had some colonies or, in more recent times, during international cooperative activities.

This paper would like to provide the annotated overview of the Italian literature on several species of tropical tunas: skipjack tuna, *Katsuwonus pelamis* (Linnaeus, 1758) (FAO code: SKJ), narrow-barred Spanish mackerel, *Scomberomorus commerson* (Lacépède, 1800) (FAO code: COM), West African Spanish mackerel, *Scomberomorus tritor* (Cuvier, 1832) (FAO code: MAW), serra Spanish mackerel, *Scomberomorus brasiliensis* Colette, Russo and Zavala-Camin, 1978 (FAO code: BRS), cero, *Scomberomorus regalis* (Block, 1793) (FAO code: CER), king mackerel, *Scomberomorus cavalla* (Cuvier, 1829) (FAO code: SSM), wahoo, *Acanthocybium solandri* (Cuvier, 1832) (FAO code: WAH), Indian mackerel, *Rastelliger kanagurta* (Cuvier, 1816) (FAO code: RAG), black skipjack, *Euthynnus*

lineatus (Kishinouye, 1912) (BKJ), kawakawa, *Euthynnus affinis* (Cantor, 1849) (FAO code: KAW, yellowfin tuna, *Thunnus albacares* (Bonnaterre, 1788) (FAO code: YFT), bigeye tuna, *Thunnus obesus* (Lowe, 1839) (FAO code: BET), blackfin tuna, *Thunnus atlanticus* (Lesson, 1831) (FAO code: BLF), southern bluefin tuna, *Thunnus maccoyii* (Castelnau, 1872) (FAO code: SBF), longtail tuna, *Thunnus tonggol* (Bleeker, 1851) (FAO code: LOT), and eastern Pacific bonito, *Sarda chiliensis* (Cuvier, 1832) (FAO code: BEP). Usually, some RFMOs¹ group the tropical tuna species under the general code TRO.

Some papers were written in Italian, a language which is now not on the list of the three official languages (French, English and Spanish) used in ICCAT² and in other tuna RFMOs, and therefore, possibly some foreign scientists have problems in understanding the contents.

Another reason for setting-up this Italian annotated bibliography is because some papers are not available in electronic format, and therefore, some young researchers, who are no longer used to studying and mining in traditional libraries, could be likely unable to detect the various studies that have been carried out so far on these species.

Therefore, it is a sort of national proudness trying to set-up the list of papers on these species that it was possible to find so far, annotating them with keywords in English for improving the opportunities to detect them with an electronic searching engine.

A very first and limited Italian annotated bibliography on tropical tunas was tentatively provided by Di Natale (2020), even if some annotated papers were already included in the fundamental work on tuna species provided by Corwin (1930) and later updated by Van Campen and Hoven (1956). An indexed bibliography including tropical tunas, limited to tagging, was published by Bayliff (1993). Not-annotated literature reviews including also tropical tuna species were provided by Collette and Nauen (1983), Pillai and Mallia (2007) and Collette and Graves (2019).

2 Criteria

The bibliography on tropical tunas (skipjack tuna, narrow-barred Spanish mackerel, West African Spanish mackerel, serra Spanish mackerel, cero, king mackerel, wahoo, Indian mackerel, kawakawa, black skipjack, yellowfin tuna, bigeye tuna, blackfin tuna, southern bluefin tuna, longtail tuna and eastern Pacific bonito) included in this work was selected when an Italian scientist was the only author of a paper or when one or more Italian scientists were among the authors of collective papers.

This was the primary criterion used for selecting the many titles, independently if they were peer-reviewed papers, books, not-peer-reviewed papers, papers presented in conferences or meetings or congresses, reports to public administrations

¹ RFMOs: Regional Fishery Management Organisations.

² ICCAT: International Commission for the Conservation of Atlantic Tunas.

or project reports. A secondary criterium for paper selection considered those documents directly related to the target species, even if, in some cases, the tropical tunas are concerned by just a part of the text.

When vernacular names or old scientific names were used in the original paper, they were possibly listed in the annotation. The annotations required each paper to be checked in detail and this implied a huge workload.

The annotations show the main subjects in the content, and the descriptors proposed by ASFIS (Fagetti *et al.*, 2009) have been mostly used, adding additional descriptors when necessary. As concerns the main species included in each reference, we used both the international common name(s) and the Latin name(s).

3 Discussion

Even if most of the scientific efforts of the Italian scientists over the years were devoted to the Mediterranean species, some of them worked also on tropical tuna species, thanks to the interest of the tuna industry to use these tunas. Very few research campaigns were targeting tropical tunas in the past, even if some Italian vessels were fishing also in tropical areas. The interest, in recent years, has been mostly for management or conservation studies, food safety issues and for genetic research.

The titles which are now available surely constitutes a very useful reference list for all the researchers working on tropical tunas (skipjack tuna, narrow-barred Spanish mackerel, West African Spanish mackerel, serra Spanish mackerel, cero, king mackerel, wahoo, Indian mackerel, black skipjack, yellowfin tuna, bigeye tuna, blackfin tuna, southern bluefin tuna, longtail tuna and eastern Pacific bonito) and it also includes some rare papers. The opportunities provided by the web are improving the number of available articles on these species and their fisheries.

In most of the cases, when checking a document, it was possible to discover additional literature which was previously not available, transforming a part of this work as a continuous journey following Ariadne's thread.

At the same time, during this bibliographic research, it was amazing to learn so many additional details about these species. Going through the various titles (and the text behind) in the bibliography, it is possible to find important information on many aspects of their life history and fisheries.

This work provides a list of 88 papers, all published between 1884 and 2020 (Fig. 1). Very generic references to tropical tuna species sometimes exist or can be suspected in older papers, even in the sixteenth century, but they are too imprecise and generic, and therefore, these works were not listed in this bibliography. The very first specific reference is by Premi (1884), followed by Pavesi (1887). No papers on tropical tunas were published in the first two decades of the twentieth century, 1 paper was published in the '20s, 4 papers were published in the '30s, when several fish were imported to Italy from the Italian colonies or from the Atlantic Ocean and when there was a specific interest from the tuna industry. Again, there was another decade without any paper in the '40s, due to the 2nd

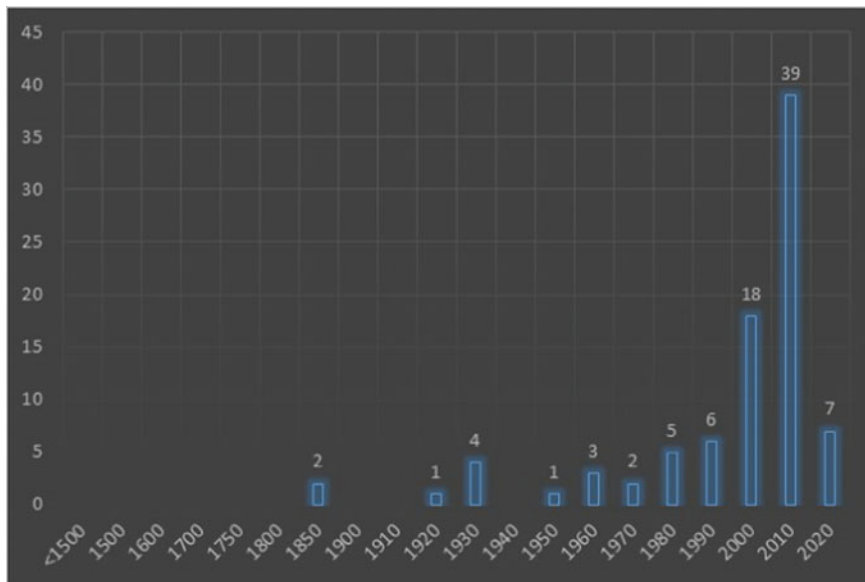


Fig. 1 Number of the papers published on tropical tunas species by Italian authors over the years

World War. The Italian scientific production on tropical tunas very slowly resumed after the '40s, smoothly growing till the '90s, when 9 papers were published. Then, due to the growing scientific and commercial interest, 18 papers (20.45%) were published between 2000 and 2009, peaking at 39 papers (43.32%) in the last decade, mostly due to conservation issues. Additional 8 papers were published in 2020.

Most of the references (61 papers, 69.32%) are in English, mirroring the fact that the majority of the papers were published in very recent years. 25 papers (28.41%) are in Italian because these papers were published when the Italian language was mandatory, or when foreign languages were not used, or because they were Italian official domestic reports, and likely this fact makes them less usable. The remaining 2.27% of the papers are written in Spanish or in Italian/English (1 paper each). Figure 2 provides a graphic image of the languages used by the Italian authors in papers on tropical tunas which are listed in this annotated bibliography.

The annotations allow identifying most of the many themes included in each paper. Tables 1a and 1b shows the most relevant themes in the annotations and it is interesting to see how many aspects of the tropical tunas have been examined by the various Italian authors. Most of the papers are specifically related to the Atlantic Ocean (57 papers, 64.77%), but the studies include also the Pacific Ocean (47 papers, 53.41%), the Indian Ocean and the Mediterranean Sea (42 papers each, 47.73% each) and the Red Sea (3 papers, 3.41%).

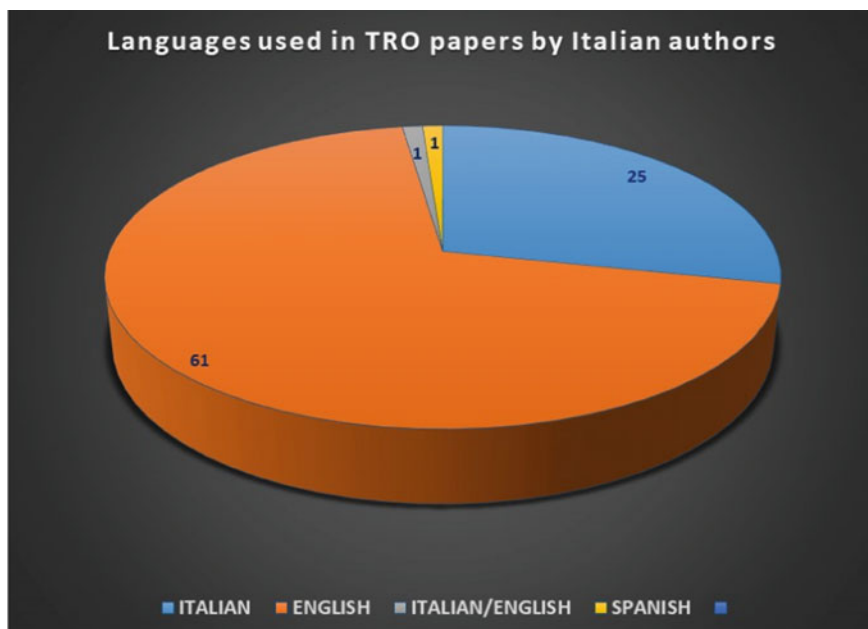


Fig. 2 Graphic proportion of the different languages used by Italian authors in papers related to tropical tunas

Table 1a Percentages of the different themes included in the annotations to the Italian bibliography on tropical tunas (first part)

Annotations			Annotations		
Theme	No	%	Theme	No	%
Nomenclature	5	5.68	Feeding	1	1.14
Official species names	1	1.14	Trophic chain	1	1.14
Systematics/synonyms	3	3.41	Stomach contents	1	1.14
Dictionary/glossary	2	2.27	Diet	1	1.14
Bibliography	3	3.41	Nutritional value	2	2.27
Species identification	2	2.27	Fish/flesh quality	6	6.82
Tropical tunas	16	18.18	Analyses	16	18.18
Scomberomoridae	1	1.14	Genetic	14	15.91
Skipjack tuna	26	29.55	DNA	7	7.95
Black skipjack	4	4.55	Genome	5	5.68
Yellowfin tuna	41	46.59	Bioaccumulation/contaminants	7	7.95
Bigeye tuna	22	25.00	Heavy metals	9	10.23

(continued)

Table 1a (continued)

Annotations			Annotations		
Theme	No	%	Theme	No	%
Albacore tuna	22	25.00	Mercury/Hg	9	10.23
Southern bluefin tuna	15	17.05	Food safety/security	10	11.36
Pacific bluefin tuna	10	11.36	Fleets/vessels	6	6.82
Blackfin tuna	4	4.55	Fishing gear	6	6.82
Longtail tuna	6	6.82	Fishing technique/strategy	5	5.68
Dogtooth tuna	1	1.14	Gear technology	5	5.68
Narrow-barred Spanish mackerel	4	4.55	Longlines	20	22.73
West African Spanish mackerel	3	3.41	Purse seine	14	15.91
Serra Spanish mackerel	2	2.27	Traps	10	11.36
King mackerel	3	3.41	Hand line/Troll line	9	10.23
Indian Spanish mackerel	1	1.14	Small-scale or artisanal fishery	4	4.55
Cero	2	2.27	Catches/yield	5	5.68
Wahoo	5	5.68	Statistics	3	3.41
Eastern Pacific bonito	3	3.41	Experimental fishery	3	3.41
Morphology	2	2.27	Fishery research	1	1.14
Description	2	2.27	Gear conflicts	1	1.14
Distribution	9	10.23	Gear impact	6	6.82
Migrations	9	10.23	Stocks	5	5.68
Populations	3	3.41	Stock assessment	3	3.41
Behaviour/Ethology	5	5.68	Stock structure	4	4.55
Biology	12	13.64	Tagging	4	4.55
Reproductive biology	3	3.41	Electronic/Satellite tagging/PSAT	4	4.55
Sex ratio	2	2.27	Conventional tagging	1	1.14
Reproduction	7	7.95	Environment	2	2.27
Gonads	2	2.27	Environmental impact	3	3.41
Gonado-somatic index	1	1.11	Oceanography	2	2.27
Spawning	7	7.95	Conflict with other activities	1	1.14
Fecundity	2	2.27	Gear impact	2	2.27
Eggs/oocytes/larvae	1	1.14	By-catch	7	7.95
Recruitment	1	1.14	Management	10	11.36
Juveniles	2	2.27	RFMO(s)	6	6.82
Growth	2	2.27	ICCAT	2	2.27
Size frequencies	2	2.27	IATTC	2	2.27

Table 1b Percentages of the different themes included in the annotations to the Italian bibliography on tropical tunas (second part)

Annotations			Annotations		
Theme	No	%	Theme	No	%
IOTC	2	2.27	Turkey	3	3.41
FAO	1	1.14	United Kingdom	1	1.14
IUCN	16	18.18	Economy	7	7.95
Laws/rules	1	1.14	Economic problems	3	3.41
Regulations	4	4.55	Socio-economy	3	3.41
Tuna conservation	1	1.14	Markets	18	20.45
Conservation status	15	17.05	Costs	1	1.14
IUU	2	2.27	Price	3	3.41
Tropical oceans	4	4.55	Farming/Caging/Fattening/Rearing	5	5.68
Atlantic ocean	57	64.77	Captive/Artificial breeding	2	2.27
Eastern Atlantic ocean	1	1.14	Industry	19	21.59
Western Atlantic ocean	5	5.68	Processing plants	1	1.14
Gulf of Guinea	2	2.27	Canning/canned	15	17.05
Indian ocean	42	47.73	Salted products	4	4.55
Pacific ocean	47	53.41	Dried products	1	1.14
Mediterranean sea	42	47.73	Smoked products	1	1.14
Red Sea	3	3.41	Seafood mislabelling	1	1.14
Persian Gulf	2	2.27	Seafood	4	4.55
Canary Islands	1	1.14	Pet food	1	1.14
European union	2	2.27	Packaging	2	2.27
Ivory coast	2	2.27	Loins	2	2.27
Mauritania	3	3.41	Trade	19	21.59
Morocco	4	4.55	Import	14	15.91
Nigeria	2	2.27	Export	13	14.77
Senegal	3	3.41	Consumption/Consumers	3	3.41
United States of America	2	2.27	Traceability	2	2.27
Australia	3	3.41	Sustainability	3	3.41
Canada	1	1.14	Social problems	4	4.55
Chile	2	2.27	Social science	1	1.14
Croatia	5	5.68	Anthropology/Ethno-anthropology	2	2.27

(continued)

Table 1b (continued)

Annotations			Annotations		
Theme	No	%	Theme	No	%
Djibouti	1	1.14	Census	1	1.14
France	5	5.68	Fishermen	6	6.82
Germany	1	1.14	Fishermen villages	3	3.41
Indonesia	1	1.14	Traditions	4	4.55
Italy	23	26.14	Culture	3	3.41
Japan	5	5.68	History	9	10.23
Madagascar	2	2.27	Phoenicians	2	2.27
Malta	5	5.68	Greeks	2	2.27
Mexico	1	1.14	Romans	3	3.41
Mozambique	1	1.14	Arabs	1	1.14
Peru	1	1.14	Middle Ages	3	3.41
Somalia	1	1.14	Modern Age	31	35.23
Spain	6	6.82	Food habits	3	3.41
Tunisia	3	3.41	Recipes	2	2.27

The various countries concerned are also identified, with a majority of papers concerning Italy (23 papers, 26.14%), 6 papers related to Spain (6.82%), and then Croatia, France, Japan and Malta, with 5 papers each (5.68% each); other 21 countries are less mentioned. Among these species, the yellowfin tuna is included in 41 papers (46.59%), the skipjack tuna is mentioned in 26 papers (29.55%), the big-eye tuna and the albacore tuna are mentioned in 22 papers each (25% each), the southern bluefin tuna is mentioned in 15 papers (17.05%), the Pacific bluefin tuna is mentioned in 10 papers (11.36%), while the other species are less mentioned.

The fishing methods also have a clear relevance: the longline fishery is mentioned in 20 papers (22.73%), the purse-seine fishery is mentioned in 14 papers (15.91%), the traps are mentioned in 10 papers (11.36%) and the line fisheries (hand lines and troll lines) are mentioned in 9 papers (10.23%), while the other fisheries are less represented. Conflicts with other activities are mentioned in just 1 paper (1.14%), while the various impacts caused by the gears are mentioned in 6 papers (6.82%); by-catch is reported in 7 papers (7.95%).

The biology is included in 12 papers (13.64%), but the generic analyses (16 papers, 18.18%) and genetic studies (14 papers, 15.91%) are more relevant; food safety or security is the subject of 10 papers (11.36%), heavy metals and mercury are mentioned in 9 papers each (10.23% each) and bioaccumulation or contaminants are mentioned in 7 papers (7.95%); all these issues are very important for the tuna canning industry.

The management is included in 10 papers (11.36%), generic RFMOs are mentioned in 6 papers (6.82%), stock structure is mentioned in 4 papers (4.55%), while the conservation status concerns 15 papers (17.05%) and IUCN is mentioned in 16 papers (18.18%).

The tuna trade and the tuna industry are reported in 19 papers each (21.59% each), the markets are reported in 18 papers (20.45%), the canning industry is reported in 15 papers (17.05%), while several aspects of the tuna economy are also mentioned in various papers. The social problems are mentioned in 4 papers (4.55%), while social sciences, traditions, history, fishermen, food habits, culture and many other themes are also included in other papers.

Table 2 shows the ranking of the main authors included in the Italian annotated bibliography on tropical tunas, over a total of 146 authors. Based on the institutional workplace of each author, it is very clear that the most of the authors are

Table 2 List and ranking of the main authors included in the Italian annotated bibliography on tropical tunas

Ranking	Author	Number of TRO papers
1	Di Natale Antonio	25
2	Pecoraro Carlo	11
3	Tinti Fausto	5
4	Cariani Alessia	4
4	Valsecchi Adolfo	4
5	Bini Giorgio	3
5	Catanese Gaetano	3
5	Del Caro Alessandra	3
5	De Metrio Gregorio	3
5	Franco Mario Andrea	3
5	Menghini Vittorio	3
5	Sferlazzo Gianvito	3
5	Valetti Bruna	3
6	Anastasio Aniello	2
6	Arena Pasquale	2
6	Babucci Massimiliano	2
6	Bargelloni Luca	2
6	Bernardi Christian	2
6	Cattaneo Patrizia	2
6	Corriero Aldo	2
6	Deflorio Michele	2
6	Franch Raffaella	2
6	Ottolenghi Francesca	2
6	Papetti Chiara	2
6	Piccinetti Corrado	2
6	Serra Antonio	2
6	Tirioni Enrica	2
Anonymous author(s)		
1		

belonging to the four main research centres targeting the large pelagics in Italy: Messina, Bologna-Fano, Genova and Bari, where Universities and other research institutes were historically located. Among the authors, there are most of the Italian national research coordinators for the large pelagics over the years (Arena, De Metrio, Piccinetti and Di Natale). Just one paper is by an anonymous author(s).

Due to the number of references, the Italian annotated bibliography on tropical tunas is provided in Annex 1 to this paper.

4 Conclusion

This work was able to find also the several scientific expeditions carried out by Italian scientists on tropical oceans, such as those by Bini in the Atlantic Ocean (1931 and 1936) and in the Pacific Ocean (1952), by Ninni in the Red Sea (1931) and by Arena in West African waters (1964 and 1967), papers that are usually never mentioned by foreign scientists working on tropical tunas. Therefore, listing them in this annotated bibliography is somehow important.

Even if it is evident that the tropical tunas have been not the main scientific interest of Italian scientists, it is clear that several research activities have been conducted on many species, mostly in the last century. The list of scientific papers on tropical tunas here provided is still certainly incomplete but the aim of this work is also to further stimulate scientists to provide additional titles, with the purpose to create a very complete reference list to be used by all the researchers working on these species or on related subjects, for helping them in their work.

It is sure that additional documents are certainly existing, but it was not possible to find them during this bibliographic research. Indeed, this is a never-ending work and possibly this work will be never completed.

In recent years many scientists and particularly (but not only) young researchers are adopting a sort of selective attitude when they prepare their papers, avoiding even to mention papers that were not published in peer-review journals or by scientists who are competing with them. This attitude is clearly causing a serious scientific problem because there are several very recent papers that are not at all using the knowledge available so far, which sometimes means forgetting an important part of the scientific knowledge and culture we already have.

Clearly, this paper can improve the knowledge on available Italian studies on tropical tunas and this annotated bibliography was made exactly for providing a helping hand to all the colleagues working on these species.

Annex 1: Annotated Italian Bibliography on Tropical Tunas (TRO)

1. Anonymous, 1927. La produzione di pesci in iscatola negli Stati Uniti durante l'anno 1926. Boll. Pesca Piscic. Idrobiol., 3 (5): 17–18.
 - i. Tuna industry, canned tuna, production, export, tropical tunas, *Thunnus* spp., United States, Atlantic Ocean, Pacific Ocean.

2. Arena P., 1964. Missione di studio sulla pesca in Africa Occidentale. Rapporto al Centro Sperimentale della Pesca, Messina: 1–85.
 - i. Experimental fishery, exploratory fishery, fishery research, bottom trawl fishery, coastal fishery, pelagic fishery, longline fishery, skipjack tuna, *Katsuwonus pelamis*, Atlantic little tunny, *Euthynnus alletteratus*, albacora, yellowfin tuna, *Thunnus albacares*, bigeye, *Thunnus obesus*, Morocco, Mauritania, Senegal, Nigeria, West Africa, Gulf of Guinea, western Atlantic Ocean.
3. Arena P., 1967. La pesca del tonno nell'Atlantico intertropicale. Rivista della Pesca, Luglio-Settembre, 3: 536–590.
 - i. Longline fishery, purse-seine fishery, bluefin tuna, *Thunnus thynnus*, skipjack tuna, *Katsuwonus pelamis*, little tunny, *Euthynnus alletteratus*, albacora, yellowfin tuna, *Thunnus albacares*, bigeye, *Thunnus obesus*, Morocco, Mauritania, Senegal, Nigeria, West Africa, Gulf of Guinea, Tropical seas, western Atlantic Ocean.
4. Baiocchi C., Medana C., Dal Bello F., Giancotti R., Aigotti R., Gastaldi D., 2015. Analysis of regioisomers of polyunsaturated triacylglycerols in marine matrices by HPLC/HRMS. Food Chemistry, 166: 551–560. <https://www.sciencedirect.com/science/article/pii/S0308814614009534> <https://doi.org/10.1016/j.foodchem.2014.06.067>.
 - i. Fish oil, tuna oil, algae oil, analyses, mass spectrometry, thermal induced fragmentation, CID MS/MS tag fragmentation, HPLC/HRMS methodology, Omega-3 fatty acids, intestine absorption, polyunsaturated triacylglycerols composition, yellowfin tuna, *Thunnus albacares*.
5. Barbujani F., 1980. I problemi della conservazione e trasformazione dei prodotti ittici. In: Contributo della Pesca alla soluzione del problema alimentare. Atti Conf. Naz. Pesca, CNEL, Roma: 169–190.
 - i. Industry, preserves, canning, import, export, market, distribution, marketing, fish consumption, nutritional value, energy inputs, food safety, frozen products, refrigerated products, vacuum products, dried products, cod, *Gadus morhua*, tropical tunas, bluefin tuna, *Thunnus thynnus*, Italy, Mediterranean Sea, Atlantic Ocean.
6. Bayona-Vásquez N.J., Glenn T.C., Uribe-Alcocer M., Pecoraro C., Díaz-Jaimes P., 2018. Complete mitochondrial genome of the yellowfin tuna (*Thunnus albacares*) and the blackfin tuna (*Thunnus atlanticus*): notes on mtDNA introgression and parafly on tunas. Conservation Genetics Resources, 10 (4): 697–699.
 - i. Genetic analyses, mitochondrial genome, DNA, nuclear loci, parafly, phylogenetic relationship, introgression, genus *Thunnus*, yellowfin tuna, *Thunnus albacares*, blackfin tuna, *Thunnus atlanticus*, Atlantic Ocean.
7. Bernardi C., Tirloni E., Cattaneo P., 2015. Content of methylmercury in swordfish (*Xiphias gladius*), tuna (*Thunnus thynnus* and *Thunnus albacares*) and sharks (*Prionace glauca*, *Mustelus mustelus* and *Isurus oxyrinchus*): Estimation of the exposure on the Italian consumer. Industrie Alimentari, 54: 5–12.

- i. Heavy metals contamination, bioaccumulation, methylmercury, provisional tolerable weekly intake, PTWI, health problems, consumers, swordfish, *Xiphias gladius*, bluefin tuna, *Thunnus thynnus*, yellowfin tuna, *Thunnus albacares*, blue shark, *Prionace glauca*, smooth-hound, *Mustelus mustelus*, shortfin mako, *Isurus oxyrinchus*, Italy, Mediterranean Sea, Atlantic Ocean, Indian Ocean, Pacific Ocean.
8. Bernardi C., Tirloni E., Stella S., Anastasio A., Cattaneo P., Colombo F., 2019. β -hydroxyacyl-CoA-dehydrogenase activity differentiates unfrozen from frozen-thawed Yellowfin tuna (*Thunnus albacares*). Italian Journal of Food Safety, 8 (3): 6971. <https://doi.org/10.4081/ijfs.2019.6971>.
- i. Frozen-thawed tuna, HADH, β -hydroxyacyl-CoA-dehydrogenase activity, fresh-frozen differentiation, formaldehyde, dimethylamine, trimethylamine oxide, import, export, yellowfin tuna, *Thunnus albacares*, Italy, Maldives, Indian Ocean.
9. Bini G., 1931. Rapporto sulla crociera di pesca del tonno compiuta a bordo del piropeschereccio "Orata" nell'Atlantico. Boll. Pesca, Piscic. Idrobiol., 7(I): 57–90.
- i. Experimental fishery, fishing gear, gear technology, longlines, size measurements, yellowfin tuna, *Neothunnus albacora*, *Thunnus albacares*, bigeye tuna, *Parathunnus obesus*, *Thunnus obesus*, Canary Islands, Atlantic Ocean.
10. Bini G., 1936. La pesca oceanica e l'industria del pesce congelato. Boll. Pesca, Piscic. Idrobiol., 12(IV).
- i. Oceanic fishery, trawl fishery, longline fishery, demersal species, fishing industry, frozen fish, yellowfin tuna, *Neothunnus albacora*, *Thunnus albacares*, bigeye tuna, *Parathunnus obesus*, *Thunnus obesus*, Atlantic Ocean.
11. Bini G., 1952. Osservazioni sulla fauna marina delle coste del Chile e del Perù con speciale riguardo alle specie ittiche in generale ed ai tonni in particolare. Boll. Pesca, Piscic. Idrobiol., 28 (VII n.s.), 1: 11–60.
- i. Fish distribution, biology, reproduction, populations, migrations, juveniles, oceanography, environmental conditions, description, iconography, bibliography, yellowfin tuna, *Neuthunnus macropterus*, *Thunnus albacares*, skipjack tuna, *Katsuwonus pelamis*, eastern Pacific bonito, *Sarda chiliensis*, albacore, *Thunnus germon*, *Thunnus alalunga*, Chile, Peru, Pacific Ocean.
12. Bonanno A., Douglas H. C., 1996. Caught in the Net: The Global Tuna Industry, Environmentalism and the State. Lawrence, KS: University Press of Kansas: 1–346.
- i. Global tuna industry, global markets, tuna ranching, dolphin safe label, purse-seine fishery, tuna fisheries, export, bluefin tuna, *Thunnus thynnus*, Pacific bluefin tuna, *Thunnus orientalis*, southern bluefin tuna, *Thunnus maccoyii*, bigeye, *Thunnus obesus*, Mediterranean Sea, Atlantic Ocean, Pacific Ocean, Indian Ocean.
13. Camiñas A., Di Natale A., Munch-Petersen S., Blasdale T., Casale P., Calvo A., Defflorio M., Giacomina C., Concalves J., Kapantagakis A., Margaritoulis D., Pinnegar J., Althoff W., Astudillo A., Biagi F., Sheperd I., Weissenberger

- J., 2005. Drifting longline fisheries and their turtle by-catches: biological and ecological issues, overview of the problems and mitigation approaches. Report of the first meeting of the subgroup on by-catches of turtles in the EU longline fisheries (SGRST/SGFEN 05–01) of the Scientific, Technical and Economic Committee for Fisheries (STECF) of the Commission of the European Communities, Bruxelles, 4–8 July 2005. Commission Staff Working Paper, SEC(2005): 1–87.
- i. Pelagic longline fisheries, gear impact, impact evaluation, biology, ethology, behaviour, ecology, target species, by-catch, hooks, gear technology, fleets, CPUE, mitigation measures, marine turtles, IUCN status, loggerhead turtle, *Caretta caretta*, green turtle, *Chelonia mydas*, hawksbill turtle, *Eretmochelys imbricata*, Kemp's ridley turtle, *Lepidochelys kempfi*, olive ridley turtle, *Lepidochelys olivacea*, flatback turtle, *Natator depressus*, leatherback turtle, *Dermochelys coriacea*, porbeagle, *Lamna nasus*, blue shark, *Prionace glauca*, mako shark, *Isurus oxrinchus*, swordfish, *Xiphias gladius*, bluefin tuna, *Thunnus thynnus*, albacore, *Thunnus alalunga*, yellowfin tuna, *Thunnus albacares*, bigeye tuna *Thunnus obesus*, skipjack tuna, *Katsuwonus pelamis*, longbill spearfish, *Tetrapturus pfluegeri*, Atlantic bonito, *Sarda sarda*, Angola, Cape Verde, Cyprus, France, Equatorial Guinea, Gabon, Gambia, Greece, Guinea, Guinea Bissau, Italy, Ivory Coast, Kiribati, Mauritania, Madagascar, Malta, Mauritius, Solomon Islands, Seychelles, São Tome and Principe, Portugal, Senegal, Spain, Atlantic Ocean, Mediterranean Sea, Indian Ocean, Pacific Ocean.
14. Cammilleri G., Vazzana M., Arizza V., Giunta F., Vella A., Lo Dico G., Giaccone V., Giofrè S.V., Giangrosso G., Cicero N., Ferrantelli V., 2017. Mercury in fish products: What's the best for consumers between blue tuna and yellow tuna? *Nat. Prod. Res.* 32, 457–462.
 - i. Heavy metals, mercury, Hg, muscle, bioaccumulation, food safety, mercury direct analyser, bluefin tuna, *Thunnus thynnus*, yellowfin tuna, *Thunnus albacares*, Mediterranean Sea, Atlantic Ocean.
 15. Catanese G., 2006. Caracterización de las poblaciones de melva (*Auxis* spp) por métodos de biología molecular y diferenciación frente a otras especies de túnidos. Thesis, Departamento de Bioquímica y Biología Molecular Universidad de Cordoba: 1–136.
 - i. Species discrimination, genetic analyses, mDNA, nDNA, clusters, Scombridae family, bullet tuna, *Auxis rochei*, frigate tuna, *Auxis thazard*, bluefin tuna, *Thunnus thynnus*, albacore, *Thunnus alalunga*, skipjack tuna, *Katsuwonus pelamis*, Atlantic little tunny, *Euthynnus alletteratus*, Pacific Ocean, Indian Ocean, Atlantic Ocean.
 16. Catanese G., Infante C., Machado M., 2008. Complete mitochondrial DNA sequences of the frigate tuna *Auxis thazard* and the bullet tuna *Auxis rochei*. *DNA Sequence*, 19:3, 159–166, <https://doi.org/10.1080/10425170701207117>.
 - i. Genetic analyses, mDNA, phylogeny, mitogenome, mitotype, bullet tuna, *Auxis rochei*, frigate tuna, *Auxis thazard*, Andalucía, Spain, Mediterranean Sea, Atlantic Ocean.

17. Catarci C., 2005. The world tuna industry, an analysis of imports and prices and of their combined impact on catches and tuna fishing capacity. In: Bayliff W. H., de Leiva Moreno J. I., Majkowski J. (eds), Proceedings of Second Meeting of the Technical Advisory Committee of the FAO project Management of tuna fishing capacity: conservation and socio-economics, Madrid, Spain, 15–18 March, 2004: 235–278.
 - i. Tuna industry, tuna trade, tuna import, tuna export, markets, prices, impact on wild stocks, tuna fishing capacity, tuna species, bluefin tuna, *Thunnus thynnus*, southern bluefin tuna, *Thunnus maccoyii*, Pacific bluefin tuna, *Thunnus orientalis*, yellowfin tuna, *Thunnus albacares*, albacore, *Thunnus alalunga*, bigeye tuna *Thunnus obesus*, skipjack tuna, *Katsuwonus pelamis*, world oceans, Pacific Ocean, Indian Ocean, Atlantic Ocean, Mediterranean Sea.
18. Collette B., Acero A., Amorim A.F., Boustany A., Canales Ramirez C., Cardenas G., Carpenter K.E., Chang S.-K., de Oliveira Leite Jr. N., Di Natale A., Die D., Fox W., Fredou F.L., Graves J., Guzman-Mora A., Viera Hazin F.H., Hinton M., Juan Jorda M., Minte Vera C., Miyabe N., Montano Cruz R., Masuti E., Nelson R., Oxenford H., Restrepo V., Salas E., Schaefer K., Schratwieser J., Serra R., Sun C., Teixeira Lessa R.P., Pires Ferreira Travassos P.E., Uozumi Y., Yanez E., 2011a. *Thunnus albacares*, Yellowfin tuna. The IUCN Red List of Threatened Species 2011: e.T21857A9327139. <http://dx.doi.org/10.2305/IUCN.UK.2011-2.RLTS.T21857A9327139.en>.
 - i. Conservation status, status assessment, red list, IUCN, fishery, data, yellowfin tuna, *Thunnus albacares*, Atlantic Ocean, Indian Ocean, Pacific Ocean.
19. Collette B., Di Natale A., Fox W., Juan Jorda M., Miyabe N., Nelson R., Sun C., Uozumi Y., 2011. *Thunnus tonggol*, Longtail tuna. The IUCN Red List of Threatened Species 2011: e.T170351A6763691. <http://dx.doi.org/10.2305/IUCN.UK.2011-2.RLTS.T170351A6763691.en>.
 - i. Conservation status, status assessment, red list, IUCN, fishery, data, longtail tuna, *Thunnus tonggol*, Indian Ocean, Pacific Ocean.
20. Collette B., Acero A., Amorim A.F., Boustany A., Canales Ramirez C., Cardenas G., Carpenter K.E., Chang S.-K., Chiang W., de Oliveira Leite Jr. N., Di Natale A., Die D., Fox W., Fredou F.L., Graves J., Viera Hazin F.H., Hinton M., Juan Jorda M., Minte Vera C., Miyabe N., Montano Cruz R., Nelson R., Oxenford H., Restrepo V., Schaefer K., Schratwieser J., Serra R., Sun C., Teixeira Lessa R.P., Pires Ferreira Travassos P.E., Uozumi Y., Yanez E., 2011b. *Thunnus obesus*, Bigeye tuna. The IUCN Red List of Threatened Species 2011: e.T21859A9329255. <http://dx.doi.org/10.2305/IUCN.UK.2011-2.RLTS.T21859A9329255.en>.
 - i. Conservation status, status assessment, red list, IUCN, fishery, data, bigeye tuna, *Thunnus obesus*, Atlantic Ocean, Indian Ocean, Pacific Ocean.
21. Collette B., Chang S.-K., Di Natale A., Fox W., Juan Jorda M., Miyabe N., Nelson R., Uozumi Y., Wang S., 2011c. *Thunnus maccoyii*, Southern bluefin

- tuna. The IUCN Red List of Threatened Species 2011: e.T21858A9328286. <http://dx.doi.org/10.2305/IUCN.UK.2011-2.RLTS.T21858A9328286.en>.
- i. Conservation status, status assessment, red list, IUCN, fishery, data, southern bluefin tuna, *Thunnus maccoyi*, Atlantic Ocean, Indian Ocean, Pacific Ocean.
22. Collette B., Chang S.-K., Di Natale A., Fox W., Juan Jorda M., Miyabe N., Nelson R., 2011d. *Scomberomorus commerson*, Narrow-barred Spanish mackerel. The IUCN Red List of Threatened Species 2011: e.T170316A6745396. <http://dx.doi.org/10.2305/IUCN.UK.2011-2.RLTS.T170316A6745396.en>.
- i. Conservation status, status assessment, red list, IUCN, fishery, data, narrow-barred Spanish mackerel, *Scomberomorus commerson*, Atlantic Ocean, Pacific Ocean, Indian Ocean, Persian Gulf, Red Sea, Mediterranean Sea.
23. Collette B., Amorim A.F., Boustany A., Carpenter K.E., de Oliveira Leite Jr. N., Di Natale A., Fox W., Fredou F.L., Graves J., Viera Hazin F.H., Juan Jorda M., Minte Vera, C. Miyabe, N., Nelson R., Oxenford H., Teixeira Lessa R.P., Pires Ferreira Travassos P.E., 2011e. *Scomberomorus brasiliensis*, Serra Spanish mackerel. The IUCN Red List of Threatened Species 2011: e.T170335A6753567. <http://dx.doi.org/10.2305/IUCN.UK.2011-2.RLTS.T170335A6753567.en>.
- i. Conservation status, status assessment, red list, IUCN, fishery, data, Serra Spanish mackerel, *Scomberomorus brasiliensis*, western Atlantic Ocean.
24. Collette B., Amorim A.F., Boustany A., Carpenter K.E., de Oliveira Leite Jr. N., Di Natale A., Fox W., Fredou F.L., Graves J., Viera Hazin F.H., Juan Jorda M., Minte Vera C., Miyabe N., Nelson R., Oxenford H., Teixeira Lessa R.P., Pires Ferreira Travassos P.E., 2011f. *Scomberomorus regalis*, Cero. The IUCN Red List of Threatened Species 2011: e.T170327A6749725. <http://dx.doi.org/10.2305/IUCN.UK.2011-2.RLTS.T170327A6749725.en>.
- i. Conservation status, status assessment, red list, IUCN, fishery, data, cero, *Scomberomorus regalis*, western Atlantic Ocean.
25. Collette B., Amorim A.F., Boustany A., Carpenter K.E., de Oliveira Leite Jr. N., Di Natale A., Fox W., Fredou F.L., Graves J., Viera Hazin F.H., Juan Jorda M., Minte Vera C., Miyabe N., Nelson R., Oxenford H., Teixeira Lessa R.P., Pires Ferreira Travassos P.E., 2011 g. *Scomberomorus cavalla*, king mackerel. The IUCN Red List of Threatened Species 2011: e.T170339A6755835. <http://dx.doi.org/10.2305/IUCN.UK.2011-2.RLTS.T170339A6755835.en>.
- i. Conservation status, status assessment, red list, IUCN, fishery, data, king mackerel, *Scomberomorus cavalla*, Atlantic Ocean.
26. Collette B., Amorim A.F., Boustany A., Carpenter K.E., de Oliveira Leite Jr. N., Di Natale A., Fox W., Fredou F.L., Graves J., Viera Hazin F.H., Juan Jorda M., Minte Vera C., Miyabe N., Nelson R., Oxenford H., Teixeira Lessa R.P., Pires Ferreira Travassos P.E., 2011 h. *Scomberomorus tritor*, West African Spanish mackerel. The IUCN Red List of Threatened Species 2011: e.T170326A6749128. <http://dx.doi.org/10.2305/IUCN.UK.2011-2.RLTS.T170326A6749128.en>.

- i. Conservation status, status assessment, red list, IUCN, fishery, data, West African Spanish mackerel, *Scomberomorus tritor*, eastern Atlantic Ocean, Mediterranean Sea.
27. Collette B., Di Natale A., Fox W., Juan Jorda M., Nelson R., 2011i. *Scomberomorus guttatus*, Indian Spanish mackerel. The IUCN Red List of Threatened Species 2011: e.T170311A6742170. <http://dx.doi.org/10.2305/IUCN.UK.2011-2.RLTS.T170311A6742170.en>.
- i. Conservation status, status assessment, red list, IUCN, fishery, data, Indian Spanish mackerel, *Scomberomorus guttatus*, Indian Ocean, Persian Gulf, western Pacific Ocean.
28. Collette B., Boustany A., Carpenter K.E., Di Natale A., Fox W., Graves J., Juan Jorda M., Kada O., Nelson R., Oxenford H., 2011j. *Orcynopsis unicolor*, Plain bonito. The IUCN Red List of Threatened Species 2011: e.T170319A6746129. <http://dx.doi.org/10.2305/IUCN.UK.2011-2.RLTS.T170319A6746129.en>.
- i. Conservation status, status assessment, red list, IUCN, fishery, data, plain bonito, *Orcynopsis unicolor*, Atlantic Ocean, Mediterranean Sea.
29. Collette B., Acero A., Canales Ramirez C., Cardenas G., Carpenter K.E., Di Natale A., Guzman-Mora A., Montano Cruz R., Nelson R., Schaefer K., Serra R., Yanez E., 2011 k. *Sarda chiliensis*, Pacific bonito. The IUCN Red List of Threatened Species 2011: e.T170352A6763952. <http://dx.doi.org/10.2305/IUCN.UK.2011-2.RLTS.T170352A6763952.en>.
- i. Conservation status, status assessment, red list, IUCN, fishery, data, eastern Pacific bonito, *Sarda chiliensis*, eastern Pacific Ocean.
30. Collette B., Acero A., Canales Ramirez C., Cardenas G., Carpenter K.E., Chang S.-K., Di Natale A., Fox W., Guzman-Mora A., Juan Jorda M., Miyabe N., Montano Cruz R., Nelson R., Salas E., Schaefer K., Serra R., Uozumi Y., Yanez E., 2011 l. *Sarda orientalis*, Oriental bonito. The IUCN Red List of Threatened Species 2011: e.T170313A6743337. <http://dx.doi.org/10.2305/IUCN.UK.2011-2.RLTS.T170313A6743337.en>.
- i. Conservation status, status assessment, red list, IUCN, fishery, data, oriental bonito, striped bonito, *Sarda orientalis*, eastern Pacific Ocean, western Indian Ocean.
31. Collette B., Acero A., Amorim A.F., Boustany A., Canales Ramirez C., Cardenas G., Carpenter K.E., de Oliveira Leite Jr. N., Di Natale A., Die D., Fox W., Fredou F.L., Graves J., Guzman-Mora A., Viera Hazin F.H., Hinton M., Juan Jorda M., Kada O., Minte Vera C., Miyabe N., Montano Cruz R., Nelson R., Oxenford H., Restrepo V., Salas E., Schaefer K., Schratwieser J., Serra R., Sun C., Teixeira Lessa R.P., Pires Ferreira Travassos P.E., Uozumi Y., Yanez E., 2011 m. *Acanthocybium solandri*, Wahoo. The IUCN Red List of Threatened Species 2011: e.T170331A6750961. <http://dx.doi.org/10.2305/IUCN.UK.2011-2.RLTS.T170331A6750961.en>.
- i. Conservation status, status assessment, red list, IUCN, fishery, data, wahoo, *Acanthocybium solandri*, Pacific Ocean, Indian Ocean, Atlantic Ocean, Mediterranean Sea.

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- rochei*, Atlantic bonito, *Sarda sarda*, Atlantic little tunny, *Euthynnus alletteratus*, skipjack tuna, *Katsuwonus pelamis*, yellowfin tuna, *Thunnus albacares*, bigeye tuna, *Thunnus obesus*, swordfish, *Xiphias gladius*, Mediterranean spearfish, *Tetrapturus belone*, Italy, Ligurian Sea, Tyrrhenian Sea, Sardinian Sea, Strait of Sicily, Strait of Messina, Ionian Sea, Adriatic Sea, Mediterranean Sea, tropical Oceans.
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Comprehensive Italian Annotated Bibliography on Swordfish (*Xiphias gladius*, Linnaeus, 1758)

Antonio Di Natale, Corrado Piccinetti, Piero Addis, Fulvio Garibaldi, and Fausto Tinti



A. Di Natale (✉)

Aquastudio Research Institute, Via Trapani 6, 98121 Messina, Italy
e-mail: adinatale@acquariodigenova.it

C. Piccinetti

Laboratorio di Biologia Marina e Pesca, University of Bologna, Viale Adriatico 1, 61032 Fano, PU, Italy
e-mail: corrado.piccinetti@unibo.it

Abstract

The Italian scientists have a long tradition of studies and research on swordfish (*Xiphias gladius*). This species is certainly one of the most important for the Italian fishery since old historical times, mentioned in many ancient books. This paper lists together the many papers published so far by Italian scientists, concerning the biology of this species, the fisheries and many other scientific and cultural issues. The aim is to provide a comprehensive annotated bibliography, with specific keywords in English, for making available all these documents independently from the original language of the text. So far, we found 916 papers on swordfish but the bibliography is surely incomplete, because of the many papers published over the centuries in many places. We also included additional 47 titles concerning electronic or audio-visual documents. This bibliography, updated till 2020, was set together to serve the scientists and to help them in finding some rare references that might be useful for their work.

Keywords

Analytical techniques • Annotated bibliography • Anthropology • Audio-visual resources • Behaviour • Biology • Catches • Driftnets • Economy • Ethnography • Feeding • Fisheries • Fishing techniques • Harpoon • History • Laws • Long-lines • Media • Nomenclature • Privileges • Reproduction • Rules • Swordfish • Systematics • Technology • Traditions • Traps • *Xiphias gladius*

1 Foreword

The swordfish (*Xiphias gladius*, L., 1758) (FAO code: SWO) is a large pelagic species distributed in all oceans, which always induced a great interest and curiosity in the scientific community since old historical times, in particular in the

P. Addis

Dipartimento di Scienze della Vita e dell' Ambiente, University of Cagliari, Via Fiorelli 1,
09126 Cagliari, Italy
e-mail: addisp@unica.it

F. Garibaldi

Laboratory of Fish and Fishery Biology, Department of Earth, Environment and Life Sciences (DISTAV), University of Genova, Corso Europa 26, 16132 Genova, Italy
e-mail: fulvio.garibaldi@unige.it

F. Tinti

Laboratory Genetics & Genomics of Marine Resources & Environment (GenoDREAM), Department Biological, Geological & Environmental Sciences, University of Bologna, via Sant'Alberto, 163, 48100 Ravenna, Italy
e-mail: fausto.tinti@unibo.it

Italian one. This interest was due not only to the external anatomy of the swordfish, but also to its behaviour during the spawning period, which usually makes this pelagic fish available to coastal fishermen, particularly in the area of the Strait of Messina (Italy). In this area, since ancient historical times, it was developed a traditional harpoon fishery, with special management regulations, that is still carried out even nowadays. The development of new fisheries in the Mediterranean Sea, the importance of the swordfish as seafood resource and its high value on the international market, have been additional elements for writing many papers and books on this species.

The International Commission for the Conservation of Atlantic Tunas (ICCAT) is the Regional Fishery Management Organisation (RFMO) in charge of the management of this species in the Atlantic Ocean, in the Mediterranean Sea and in the adjacent waters, considers the Mediterranean swordfish as a distinct stock from the two Atlantic ones (northern Atlantic and southern Atlantic). The international community of fishery scientists working on this species inexplicably suppose that the biology and ecology of the Mediterranean swordfish stock is poorly documented.

This wrong perception is possibly induced by the fact that many scientific articles, papers and catch records concerning the Mediterranean swordfish, are written in Italian, a language that is not one of the three official languages used in ICCAT (English, French and Spanish) and possibly some scientists may have problems in understanding their contents. However, as a matter of fact, most of the modern (the last 500 years) studies on swordfish had Italian or Spanish authors, but also Turkish and Greek ones, even if Italian authors are clearly the large majority. Therefore, it is a sort of national proudness to provide the Italian annotated bibliography on the swordfish, published till 2020¹, annotating all papers with a large variety of keywords in English for improving the opportunities to detect them with an electronic searching engine.

This paper was prepared for providing the annotated overview of the Italian literature on swordfish, as comprehensive as possible. After the publication of the first tentative annotated bibliographies of Italian authors on swordfish (Addis *et al.*, 2019; Di Natale, 2020), it was a clear need to further explore the archives for recovering additional papers which escaped from the previous reviews.

Another reason for setting up the annotated bibliography is because many papers are not available in electronic format. Consequently, young scientists, who are not used to study and mine in traditional libraries anymore, could be likely unable to detect the studies that have been carried out so far on the many aspects of this species, therefore sometimes duplicating efforts and not taking into account the previous scientific findings and knowledge.

The importance of a species-specific annotated bibliography on swordfish is clear, even if the monumental work by Sisci (1984) already provided an important amount of not-annotated literature references and knowledge, but mostly limited to the harpoon fishery in the Strait of Messina. The bibliography on trap

¹ Or, in few cases, published even in the first part of 2021, but submitted in 2020.

fishery included also several papers on swordfish (Di Natale 2018). Other relevant but not-annotated bibliographies on swordfish were provided by Palko *et al.* (1981), Nakamura (1985), Ellis (2013) and Collette and Graves (2019). An indexed bibliography, limited to tagging, was published by Bayliff (1993).

2 Criteria

The bibliography on swordfish included in this work was selected when an Italian scientist was the only author of a paper or when one or more Italian scientists were among the authors of collective papers. This was the primary criterium used for selecting the many titles, independently if they were peer-reviewed papers, books, not-peer-reviewed papers, papers presented in conferences, meetings or congresses, reports to public administrations or project reports. A secondary criterium for papers selection, considered those documents directly related to the target species, including those papers where the swordfish is concerned by just a part of the text.

For the very ancient papers, it is reported the first edition that it was possibly to find, independently from the date of the original work.

For the electronic and audio–visual resources, we excluded all those that were produced for advertising purposes.

This work implied also checking all bibliographic references listed in each paper, in a sort of a never-ending duty, but this difficult approach allowed us to find also rare local or even forgotten papers.

When vernacular names or old scientific names were used in the original paper, they were possibly listed in the annotation, but of course sometimes it was necessary to list just the main ones. The annotations required each paper to be checked in detail and this implied an additional and huge workload.

The annotations show the main subjects in the content; the descriptors proposed by ASFIS (Fagetti *et al.*, 2009) were mostly used, adding additional descriptors when necessary. As concerns the main species included in each reference, both the international common name(s) and the Latin name(s) were used.

3 Discussion

The unprecedented, large annotated list of titles that is now available surely constitutes a very useful and unique reference list for all the scientific and cultural communities working on swordfish, and it includes also extremely rare papers on various subjects. The opportunities provided by the web are improving the number of the available articles on this species and its fisheries. This annotated bibliography required again a high amount of work and a lot of attention, due to the fact that several documents were published not only by marine scientists, but also by historians, archaeologists, economists, sociologists, anthropologists, economists, literates or journalists, making the search very wide and difficult, certainly very

multidisciplinary. Even limiting the bibliography to the works where an Italian scientist was among the authors, the number of citations that it was possible to discover so far is very important, being anyway conscious that the list is certainly incomplete and possibly it will never be complete. In many cases, when checking a document, it was possible to discover additional literature which was previously not available, transforming a part of this work as a continuous journey following an Ariadne's thread.

At the same time, during this bibliographic search, it was amazing to learn so many details about this species, which was exploited since ancient historical times. Going through the various titles (and the text behind) in the bibliography, it is possible to find important amounts of information and data on catches, fishery and biological aspects, historical and environmental information, social and economic aspects, while in many papers there are various features related to the ancient culture and traditions linked to this species and its fisheries, mirroring its extremely ancient historical roots.

One of the most time-consuming works for setting up this list was the need to homogenise the style of all citations, which were reported under many different styles. Apparently, this fact can appear as a minor problem, but it required a very important amount of work and time.

This annotated bibliography provides a total of 916 papers, (Fig. 1), mostly edited in the twentieth century, but with important contributions in previous centuries, including historical classical times. A total of 88 papers (9.61%) were edited before the twentieth century. Three papers were edited before the sixteenth century: the most ancient is the work of Archestratus of Gela (fourth century B.C.),

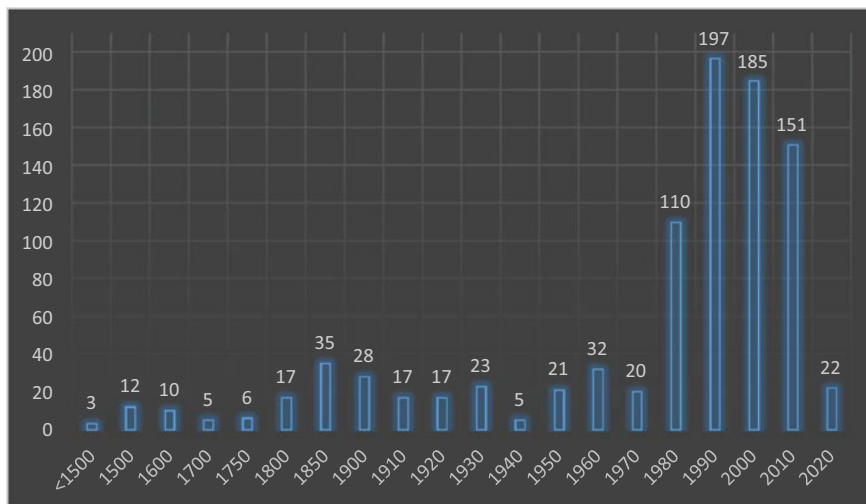


Fig. 1 Number of the papers published on swordfish by Italian authors over the years (since before 1500 to 2020)

followed by Plinius the Older (65 A.D.) and D'Anghiera (1492). Since ever, the peculiar body shape of this fish, characterised by the presence of the flat bill, its nervous character, its attitude to attack even vessels and its reproductive behaviour are curiosity elements that were able to attract the interest of those writers who were trying to describe the marine natural life. Even in the sixteenth century, 12 papers were dealing with swordfish, while 10 were written in the seventeenth century and 11 in the eighteenth century. The interest in the swordfish was more evident in the nineteenth century, when 52 papers included studies on this species.

The twentieth century was the period where many aspects of the swordfish's natural life, habits, behaviours and fishery were deeply examined. In the first decade, a total of 28 papers were printed, but the scientific production was good even between 1910 and 1939 (17 papers in both the '10s and the '20s, and 23 in the '30s), mostly due to the many field activities carried out by the Institute of Zoology of the University of Messina. From 1940 to 1949 the number of papers decreased to the minimum of 5, due to the 2nd World War and the difficult periods in the immediate post-war. The scientific production of papers on swordfish slowly increased in the '50s (21 papers) and in the '60s (32 papers).

A remarkable increase in the Italian scientific production on swordfish initiated in the '80s, when the first Italian national triennial research plan was adopted by the Ministry of Merchant Marine², followed by a series of additional triennial research plans, with an Italian coordinated scientific activity on large pelagic species, till the year 2002, jumping from 20 papers in the '70s to 110 papers in the '80s and the peak of 197 papers in the '90s. Then, most of the research activities were enhanced by the EC Data Collection Programme, followed by the EC Data Collection Framework (EU Regulation 2017/1004), which is still active; 185 papers were published in the years 2000–2009, while 151 papers have been published between 2010 and 2019. In 2020, 22 papers have been published.

Most of the documents (593 papers, 64.74%) are in Italian, thus causing an issue in the accessibility and readability in recent times. This is due to the fact that these papers were published when the Italian language was mandatory, or when foreign languages were not used, or because they were domestic official reports. For these papers, the current annotation in English now allows all scientists better understanding the contents. The remaining 35.26% of the papers are written in other 7 languages, being those in English the majority (294 papers, 32.1%). 16 papers and books (1.75%) are in Latin, a classical language that was used by several authors till the eighteenth century. 7 papers (0.76%) are in French, because the French was the language most used by the CIESM³, 3 papers (0.33%) are in Spanish, while the other three papers are, respectively, in German, Greek and Sicilian. Figure 2 provides a graphic image of the languages used in the Italian papers on swordfish which are listed in the annotated bibliography.

² Now the Ministry of Agriculture, Food and Forestry Policies (MIPAAF).

³ CIESM: Commission Internationale pour l'Exploration Scientifique de la Mer Méditerranée or Mediterranean Science Commission.

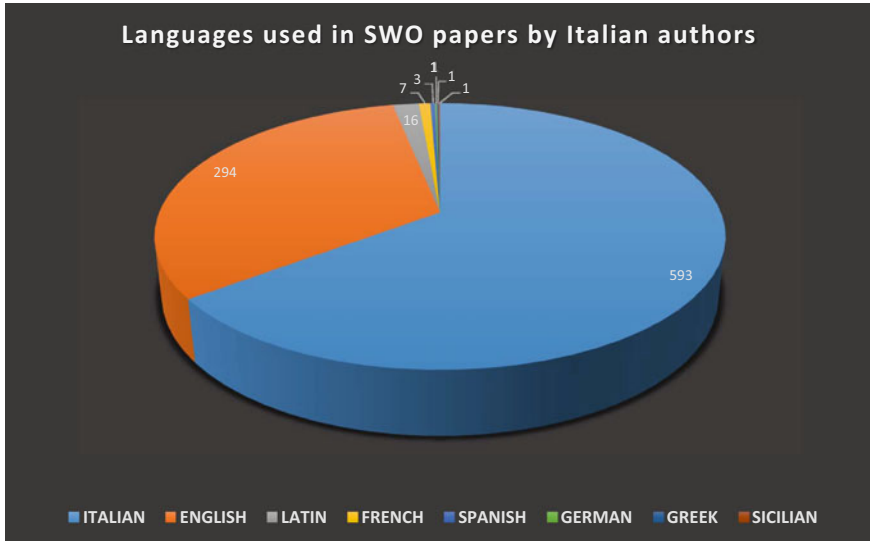


Fig. 2 Graphic proportion of the different languages used by Italian authors in papers related to swordfish

The annotations allow identifying the many themes included in each paper. Tables 1a, 1b, 1c show the most relevant themes in the annotations and it is interesting to see how many aspects of the “swordfish world” have been examined by the various Italian authors over the centuries.

Most of the papers are specifically related to the Mediterranean Sea (882 papers, 96.29%), while the Atlantic Ocean is mentioned in 58 papers (6.32%). Within the Mediterranean Sea and the adjacent areas, the Strait of Messina is the most mentioned (250 papers, 27.29%), the Tyrrhenian Sea is in 174 papers (19%), the Ionian Sea is in 163 papers (17.79%), the Ligurian Sea is in 94 papers (10.26%), the Strait of Sicily is in 78 papers (8.52%), the Adriatic Sea is in 73 papers (7.97%), the Sardinian Sea is in 27 papers (2.95%), while the other areas are less mentioned, mirroring the different distribution and relevance of the Italian swordfish fishing activities and the various interests of the Italian scientists. Figure 3 shows the different parts of the Mediterranean concerned by the various papers: it is very clear that the central Mediterranean is the most represented, followed by the eastern Mediterranean, the western Mediterranean and the Black Sea/Marmara Sea.

As concerns the countries, Italy is obviously the most mentioned (630 papers, 68.78%), but all other Mediterranean countries are also mentioned in many papers and this is a clear sign of the international cooperation attitude of many Italian scientists. Looking deeper within Italy for the various Regions, Sicily, being possibly the main Italian fishing areas for swordfish, is mentioned in 354 papers (38.65%), followed by Calabria (169 papers, 18.45%), Liguria (151 papers, 16.48%), Apulia (46 papers, 5.02%), Campania (26 papers, 2.84%), Sardinia (17 papers, 1.86%),

Table 1a Percentages of the different themes included in the annotations to the Italian bibliography on swordfish (first part)

Annotations			Annotations		
Theme	No	%	Theme	No	%
Nomenclature	50	5.46	Vertebrae	3	0.33
Systematics	16	1.75	YOY/Juveniles	70	7.64
Vernacular names	36	3.93	Larvae/eggs/Larval survey	44	4.80
Dictionary/glossary	10	1.09	Recruitment	10	1.09
Check-list/catalogue	22	2.40	Size frequencies/composition	117	12.77
Bibliography	9	0.98	Length/length frequencies	43	4.69
Morphology	43	4.69	Weight/weight frequencies	34	3.71
Anatomy	9	0.98	Length–weight correlation	18	1.97
Description	60	6.55	Species competition	5	0.55
Distribution	67	7.31	Feeding	21	2.29
Migrations	60	6.55	Diet	11	1.20
Tagging	19	2.07	Trophic chain	21	2.29
Electronic/Satellite/PSAT tagging	10	1.09	Prey/predation	2	0.22
Tag recapture	2	0.22	Stomach contents	20	2.18
Seasonality	43	4.69	Nutritional value	4	0.44
Populations	18	1.97	Food safety	19	2.07
Behaviour/Ethology	64	6.99	Analyses	60	6.55
Physiology	6	0.65	Histology/Cytology and related	17	1.85
Biology	157	17.14	Genetic	41	4.48
Reproductive biology	65	7.10	DNA	19	2.07
Reproductive alterations	2	0.22	Genome	4	0.44
Sex ratio	13	1.42	Genetic erosion	5	0.55
Reproduction	64	6.99	Parasites	27	2.95
Spawning	32	3.49	Muscle infection	15	1.64
Sexual maturity	24	2.62	Contaminants	23	2.51
Fecundity	2	0.22	Bioaccumulation	20	2.18
Gonads	38	4.15	Heavy metals	20	2.18
Oocytes	4	0.44	Toxicity	6	0.66
Intersex	2	0.22	Neurological diseases	2	0.22
Spawning areas	6	0.66	Sampling	7	0.76
Growth	38	4.15	Fossils	5	0.55
Ageing	20	2.18	Fleets	78	8.52

(continued)

Table 1a (continued)

Annotations			Annotations		
Theme	No	%	Theme	No	%
Age determination	7	0.76	Vessels	84	9.17
Otoliths	8	0.87	Aerial spotting	2	0.22
Spines/Rays	8	0.87	Spotting towers/ <i>thynnoskopèion</i>	12	1.31

and then the other Regions are less represented, mirroring mostly the different scientific interests in each Region, but also the apparent distribution of the fisheries (Fig. 4).

The fishing methods have also a clear relevance: the harpoon fishery is the subject of 296 papers (32.31%), closely followed by the longline fishery (282 papers, 30.79%), the driftnet fishery (183 papers, 19.98%) and the tuna trap fishery (152 papers, 16.59%) where swordfish is a usual by-catch. The vessels are also mentioned in 84 papers (9.17%), mostly due to the curiosity around the very peculiar shape of those used for the harpoon fishery and their ancient origin, while the fleets are described in 78 papers (8.52%). Due to the many problems with the driftnet fishery, impact situations are mentioned in 88 papers (9.61%), along with conflicts with other activities (26 papers, 2.84%). Catches and yields are also important (183 papers, 19.98%), including the by-catch issue (88 papers, 9.61%), the size frequencies/composition (117 papers, 12.77%) and the CPUE (112 papers, 12.23%). The economy is studied in 56 papers (6.11%), along with the market (27 papers, 2.95% and the trade (33 papers, 3.6%). Peculiar importance have the anthropological studies related to the swordfish fishery and the fishermen's communities (19 papers, equal to 2.07%).

The biology is very present (157 papers, 17.14%), along with YOY⁴/juveniles (70 papers, 7.64%), reproductive biology (65 papers, 7.1%), reproduction and behaviour/ethology (both with 64 papers each, 6.99% each), larvae/eggs/larval surveys (44 papers, 4.8%), gonads and growth (both with 38 papers each, 4.15% each), length-weight correlation (18 papers, 1.97%) sexual maturity (24 papers, 2.62%) and spawning (32 papers, 3.49%). Various types of analyses are mentioned in 60 papers (6.55%), including genetic studies (41 papers, 4.48%), parasites (27 papers, 2.95%), stomach contents, contaminants and bioaccumulation (20 papers each, 2.18% each), food safety and DNA studies (both in 19 papers each, 2.07% each), and histology/cytology (17 papers, 1.86%),

Thanks to the ancient roots of the swordfish fishery, traditions and history are mentioned 138 papers each (15.07% each), along with fishermen (60 papers, 6.55%), culture (44 papers, 4.8%), legends (29 papers, 3.17%) and iconography/images/photos (38 papers, 4.15%).

Table 2 shows the ranking of the main authors included in the Italian anno-

⁴ YOY: young of the year.

Table 1b Percentages of the different themes included in the annotations to the Italian bibliography on swordfish (second part)

Annotations			Annotations		
Theme	No	%	Theme	No	%
Spotters	8	0.87	Conflicts with other activities	26	2.84
Fishing gear	76	8.30	Impact/Impact evaluation	88	9.61
Purse-seines	48	5.24	Climate/Earthquake impact	9	0.98
Driftnets/gillnets	183	19.98	Management	50	5.46
Longlines	282	30.79	RFMO(s)	4	0.44
Harpoon	296	32.31	ICCAT	11	1.20
Traps	152	16.59	IUU	15	1.64
Hand/Troll lines	54	5.90	Minimum size	11	1.20
Small-scale or artisanal fishery	49	5.35	Seasonal closure	11	1.20
Sport/recreational fishery	23	2.51	Driftnets ban	2	0.22
Selectivity	4	0.44	Regulations/laws	44	4.80
Technological creeping	5	0.55	Rules	18	1.97
Fishing strategy	6	0.66	Royalties	19	2.07
Competition among gear	2	0.22	Privileges	17	1.86
Gear conflicts/competition	10	1.09	Church rights	12	1.31
Gear impact	87	9.50	Nobles	10	1.09
Catches/Yields	183	19.98	Ruffo dynasty	6	0.66
By-catch	88	9.61	Geography	17	1.86
Fishing effort	14	1.53	Towns/villages/settlements	10	1.09
CPUE	112	12.23	Atlantic Ocean	58	6.33
Statistics	60	6.55	Mediterranean Sea	882	96.29
Stocks	27	2.95	Strait of Gibraltar	4	0.44
Stock assessment	5	0.55	Alboran Sea	2	0.22
Stock/population structure	21	2.29	Balearic Sea	6	0.66
Stock identification	10	1.09	Gulf of Lions	3	0.33
Multidisciplinary approach	3	0.33	Western Mediterranean Sea	16	1.75
Models/modelling	10	1.09	Sardinian Sea	27	2.94
GIS	7	0.76	Ligurian Sea	94	10.26
Bio-economic model	3	0.33	Central Mediterranean Sea	13	1.42

(continued)

Table 1b (continued)

Annotations			Annotations		
Theme	No	%	Theme	No	%
Environment/ecosystem	39	4.26	Strait of Sicily	78	8.52
Oceanography	21	2.29	Tyrrhenian Sea	174	19.00
Currents	19	2.07	Strait of Messina	250	27.29
Tides	10	1.09	Ionian Sea	163	17.79
Temperature/SST	7	0.76	Adriatic Sea	73	7.97
Lunar/moon effects	7	0.76	Eastern Mediterranean Sea	3	0.33
Pollution	9	0.98	Levantine Sea	9	0.98

tated bibliography on swordfish, over a total of 904 Italian authors. Based on the institutional workplace of each author, it is very clear that the main authors are belonging to three of the main research centres targeting the large pelagics in Italy: Messina, Bari and Genova, where Universities and other research institutions were historically located. Among the main authors, there are most of the Italian national research coordinators for the large pelagics research programmes over the years (De Metrio, Orsi Relini and Di Natale). Anonymous papers are just 26, only 2.84% of the total.

Due to the high number of references, the Italian annotated bibliography on swordfish is provided in Annex 1 to this paper.

Furthermore, additional 47 electronic or audio-visual resources on swordfish were retrieved (Annex 2), which are very important for better understanding the characteristics of this ancient fishery, its traditions, the special vessels that have been used in the past and those used nowadays, the fishermen and other peculiar aspects.

Among these resources, there are some historical masterpieces of the filmography, like those by Istituto Nazionale Luce (1946), or made by important film directors like the masters Francesco Alliaia di Villafranca (1948), De Seta (1954) and Folco Quilici (1968–1970), and famous writers such as Soldati (1950).

Most of the electronic or audio-visual resources are concerning the harpoon fishery (35 resources, 74.47%), while 8 (17.02%) are related to the longline fishery and 4 (8.51%) to the trap fishery. The majority of the audio-visual resources are related to the activities in the Strait of Messina (33 resources, 70.21%), where the historical swordfish harpoon fishery was born.

The electronic and audio-visual resources on swordfish were made by 38 different authors, while 8 were made by anonymous authors.

Therefore, in total, we have been able to find and annotate 963 Italian papers, electronic and audio-visual resources, which represent now a strong improvement for the availability of knowledge and culture on the swordfish and the many related aspects.

Table 1c Percentages of the different themes included in the annotations to the Italian bibliography on swordfish (third part)

Annotations			Annotations		
Theme	No	%	Theme	No	%
Aegean Sea	19	2,07	Commerce	11	1,20
Black Sea/Marmara Sea	6	0,66	Trade	33	3,60
Albania	6	0,66	Import	16	1,75
Croatia	16	1,75	Export	5	0,55
Cyprus	5	0,55	Socio-economy	10	1,09
Egypt	5	0,55	Social aspects	19	2,07
France	15	1,64	Fishermen	60	6,55
Greece	42	4,59	Halieutic	1	0,11
Italy	630	68,78	Anthropology	19	2,07
Libya	10	1,09	Ethnography	12	1,31
Malta	11	1,20	Culture	44	4,80
Montenegro	4	0,44	Religion	21	2,29
Morocco	8	0,87	Rituals	17	1,86
Spain	22	2,40	Traditions	138	15,07
Portugal	3	0,33	History/Historical fishery	138	15,07
Slovenia	9	0,98	Archaeology	7	0,76
Spain	22	2,40	Pliocene	3	0,33
Syria	2	0,22	Middle Ages	12	1,31
Tunisia	11	1,20	Modern Age	4	0,44
Turkey	11	1,20	Phoenicians	7	0,76
Apulia	46	5,02	Greeks	13	1,42
Basilicata	11	1,20	Romans	10	1,09
Calabria	169	18,45	Arabs	5	0,55
Campania	26	2,84	Legends	29	3,17
Latium	8	0,87	Myths	11	1,20
Liguria	151	16,48	Beliefs	7	0,76
Marche	1	0,11	Iconography/images/photos	38	4,15
Sardinia	17	1,86	Literature/romance	6	0,65
Sicily	354	38,65	Narrative	3	0,33
Tuscany	4	0,44	Poetry	5	0,55
Economy	56	6,11	Songs	5	0,55
Market	27	2,95	Food habits	20	2,18
Price	10	1,09	Seafood	15	1,64
Revenues	2	0,22	Recipes/Gastronomy	20	2,18
Costs	5	0,55	Cooking	7	0,76

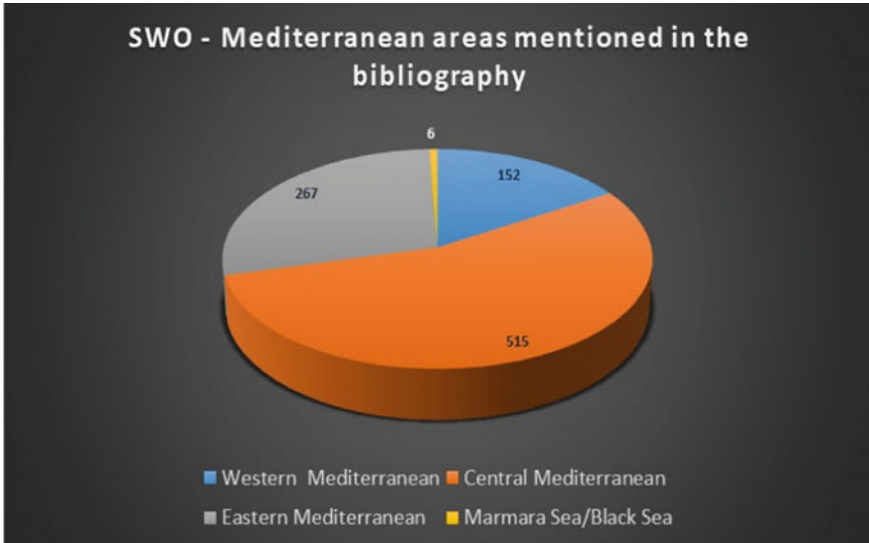


Fig. 3 Geographical distribution of the Italian annotated bibliography on swordfish among the various parts of the Mediterranean Sea

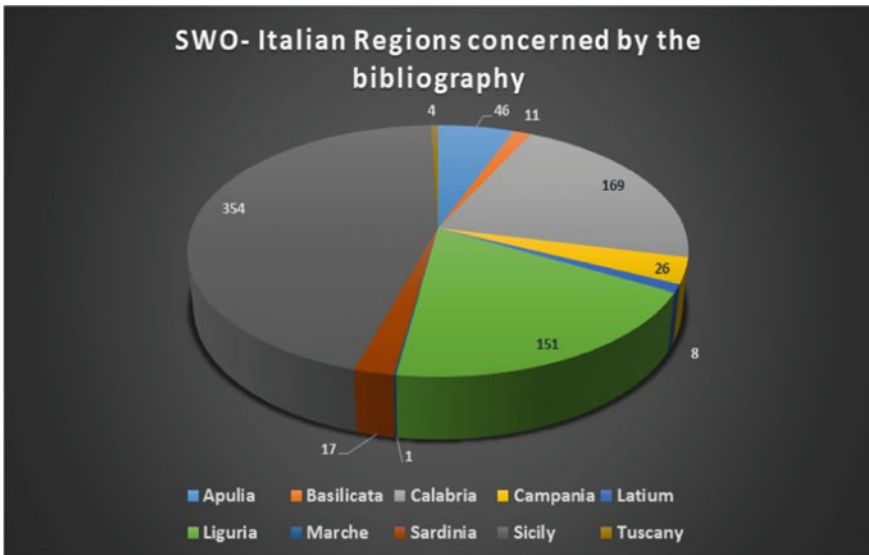


Fig. 4 Graphic proportion of the different Italian Regions mentioned in the Italian annotated bibliography on swordfish

Table 2 List of the main authors included in the Italian annotated bibliography on swordfish

Ranking	Author	Number of SWO papers
1	Di Natale Antonio	88
2	De Metrio Gregorio	85
3	Garibaldi Fulvio	55
4	Orsi Relini Lidia	45
5	Romeo Teresa	34
5	Andaloro Franco	34
6	Mangano Antonia	33
7	Palandri Giovanni	29
8	Potoschi Antonio	26
9	Battaglia Pietro	25
10	Desantis Salvatore	23
11	Corriero Aldo	22
12	Cavallaro Guglielmo	19
12	Cima Chantal	19
12	Gioacchini Giorgia	19
12	Marano Giovanni	19
12	Valastro Massimiliano	19
13	Carnevali Oliana	18
13	Cefali Antonio	18
13	Consoli Pierpaolo	18
13	Navarra Enrico	18
13	Rostitani Lucio	18
14	De Zio Vito	17
14	Nascetti Giuseppe	17
15	Deflorio Michele	16
15	Petrosino Gregorio	16
Other Authors (between 15 and 10 papers), over a total of 904 Italian Authors		
Labate M., (15), Pignalosa P., Relini M., Santamaria N., (14), Pastorelli A.M., Perzia P., (13), Lanteri L., Relini G., Torchia G., (12), Cacucci M., Fossi M.C., Schimmenti G., Sisci R., (11), Cimmaruta R., Mattiucci S., Palmieri G., (10)		
Anonymous Author		
26		

4 Conclusion

The comprehensive list of annotated books and scientific papers on swordfish here provided, along with the electronic and audio-visual resources, is certainly incomplete and there is the hope that this work may further stimulate scientists to provide additional titles, with the purpose to create in the future a more complete annotated reference literature list to be used by all the researchers working on this species or on related subjects, for helping them in their work. Many documents, which are not currently on the list, are certainly still kept in ancient archives, either public or private, sometimes in churches, ancient libraries, notary archives, old company's archives, and in other unknown places. It is almost sure that other Italian scientific papers on swordfish do exist, but it was not possible to find them during this investigation. Indeed, this is a never-ending work and it should be conscious that this work will never be completed.

The most traditional fishing technique for this species, the harpoon fishery, has a know-how that remained almost the same for centuries, with very limited technological improvements, which were mostly implemented in the last half-century, when the marine engines entered into use in many Mediterranean fisheries. This fact implied a necessary change in the fishing strategy and in the vessels, because the ancient technique of using land-based spotting towers (in Calabria), anchored spotting vessels ("feluche") and fast rowing boats ("luntri") for harpooning the fish, were substituted with very peculiar vessels with a high mast and a front longitudinal mast, called "motopasserelle" or, still, "feluche". The driftnet fishery, a technique that was used since historical classical times (at least since the second century B.C.), which had an important development in the second half of the twentieth century before being banned due to its impact on protected species, has also an interesting story and a considerable documentation, including its impact. The development of the longline fishery and particularly the use of deep-water longline (also called "mesopelagic longline") changed considerably both the fishing technique and the opportunities for the biological sampling for this species.

The many biological studies, particularly on the reproductive biology of this species, are also very important in the Italian annotated bibliography, even if several other papers on this subject were published by foreign scientists (mostly Spanish, Greeks and Turkish).

It is again important to note that the Italian annotated bibliography includes many papers on the anthropological studies, the traditions and the culture linked to the swordfish and its fishery, reflected also in the food habits and the recipes provided by several papers, but mainly by the important literature wrote so far by many authors.

The electronic and audio-visual resources, which are now available, are providing new tools for better understanding the swordfish fishery, the traditions and the culture, and they can be considered an added value for all researchers.

As it was mentioned in previous papers (Di Natale 2018, 2020; Addis *et al.* 2019), in recent years many scientists and particularly (but not only) young researchers are adopting a sort of "time selective mentioning" when they set up

their papers, avoiding even mentioning papers which were not published in peer-reviewed journals or by scientists who are competing with them or scientists which are not belonging to their research group. As it was already noted, this attitude is clearly causing a sort of knowledge gap, because there are several very recent papers that are not at all using the knowledge already available before. This sometimes means forgetting the pre-existing scientific literature and thus speculating on new discoveries or, better, re-discovering something that was already previously described. When such papers are published in peer-reviewed journals, then it is legitimate to criticise the work of referees who clearly were not aware of previously published papers in the same fields, therefore inducing doubts about the credibility of their revision work. Unfortunately, the examples in the last decade are many, as it was detailed by Di Natale (2020).

Clearly, there is a need to improve the knowledge of previous Italian studies available on swordfish and this annotated review was made exactly for providing a helping hand to all the researchers and writers working on this species.

Annex 1: Annotated Italian Bibliography on Swordfish, *Xiphias gladius* (SWO)

1. Addis P., Di Natale A., Garibaldi F., Piccinetti C., Tinti F., 2019. The Italian annotated bibliography on swordfish (*Xiphias gladius*, Linnaeus, 1758). Collect. Vol. Sci. Pap., ICCAT, 76 (3): 242–303.
 - i. Bibliography, Italian annotated bibliography, biology, reproduction, feeding, migrations, contaminants, stocks, populations, history, traditions, fisheries, longline fishery, trap fishery, hand line fishery, troll fishery, harpoon fishery, recreational fishery, catches, fishing techniques, analytical techniques, technology, systematics, rules, laws, privileges, nomenclature, economy, archaeology, history, ethnography, anthropology, swordfish, *Xiphias gladius*, Italy, Mediterranean Sea.
2. Agostini C., 1993. Le condizioni economiche della provincia di Reggio Calabria. Camera di Commercio ed Arti di Reggio Calabria: 75–76.
 - i. Harpoon fishery, spotting, traditions, swordfish, *Xiphias gladius*, Reggio Calabria, Calabria, Italy, Mediterranean Sea.
3. Alessi E., Tognon G., Sinesi M., Guerranti C., Perra G., Focardi S., 2006. Contaminazione chimica del Mediterraneo: il caso del pescespada. WWF Italia, Roma: 1–48.
 - i. Chemical pollution, persistent contaminants, POP, DDT, PCBs, HCBs, PFOS, PFOA, PBDE, BDE, BFR, environmental indicators, reproductive alterations, neurologic diseases, bioaccumulation, distribution, biology, regulations, muscle, liver, swordfish, *Xiphias gladius*, Mediterranean Sea.
4. Aldrovandi U., 1638. De piscibus et de Cetus. Tip. Nicola Tebaldi, Bologna, V: 1–359.

- i. Morphology, fishery, bluefin tuna, *Thunnus thynnus*, swordfish, *Xiphias gladius*, Atlantic bonito, *Sarda sarda*, skipjack tuna, *Katsuwonus pelamis*, bullet tuna, *Auxis rochei*, Strait of Messina, Mediterranean Sea.
5. Alliata di Villafranca F., 1950. Pesca del Pesce Spada. Le Vie d'Italia, 8: 901–908.
 - i. Harpoon fishery, traditions, images, swordfish, *Xiphias gladius*, Sicily, Calabria, Italy, Strait of Messina, Mediterranean Sea.
6. Ambrosi L., De Metrio G., Cacucci M, Sion L., Marinelli A., Pesola V., Potoschi A., Cannavò G., Romeo T., Megalofonou P., Yannopoulos C., 2001. Catches of juvenile bluefin tuna (*Thunnus thynnus* L.) and swordfish (*Xiphias gladius* L.) in the Italian seas during the albacore longline fishing season. Final report, EC Project 94/079 (continuation): 1–60.
 - i. Longline fishery, impact on juveniles, by-catch, recruitment, swordfish, *Xiphias gladius*, bluefin tuna, *Thunnus thynnus*, albacore, *Thunnus alalunga*, Sicily, Apulia, Italy, Greece, Tyrrhenian Sea, Ionian Sea, Aegean Sea, Mediterranean Sea.
7. Ammendolia G., Rao I., Cavallaro M., Riccobono F., 2018. Le suggestioni del mare di Messina. EDAS, Messina: 1–198.
 - i. Abyss, tides, currents, whirlpools, natural history, benthic environment, pelagic environment, rare species, historical fisheries, hand-line fishery, harpoon fishery, traditions, rituals, culture, bluefin tuna, *Thunnus thynnus*, swordfish, *Xiphias gladius*, Messina, Sicily, Italy, Strait of Messina, Ionian Sea, Tyrrhenian Sea, Mediterranean Sea.
8. Amori G., Angelici F.M., Frugis S., Gandolfi G., Groppali R., Lanza B., Relini G., Vicini G., 1993. Vertebrata. In A. Minelli, S. Ruffo and S. La Posta (eds.), Checklist delle specie della fauna italiana. Calderini Edit., Bologna, 1–83.
 - i. Italian fauna, vertebrates, checklist, marine species, fish species, bluefin tuna, *Thunnus thynnus*, albacore, *Thunnus alalunga*, swordfish, *Xiphias gladius*, Mediterranean spearfish, *Tetrapturus belone*, roundscale spearfish, *Tetrapturus georgii*, white marlin, *Tetrapturus albidus*, *Kajikia albida*, Atlantic sailfish, *Istiophorus albicans*, Black marlin, *Makaira indica*, *Istiompax indica*, bullet tuna, *Auxis rochei*, Atlantic little tunny, *Euthynnus alletteratus*, skipjack tuna, *Katsuwonus pelamis*, plain bonito, *Orcynopsis unicolor*, Atlantic bonito, *Sarda sarda*, Italy, Ligurian Sea, Tyrrhenian Sea, Sardinian Sea, Strait of Sicily, Ionian Sea, Adriatic Sea, Italian seas, Mediterranean Sea.
9. Andaloro F., 1991. Riflessioni sul tema. In: Attualità e futuro della pesca in Sicilia. Atti 1° Conferenza Regionale della Pesca, Mazara del Vallo, 27–28 November 1987. Ass. Reg. Coop. Comm. Artig. Pesca, Regione Siciliana, Palermo: 146–151.
 - i. Trawl fishery, discards, refrigerated products, distribution chain, market problems, industry, small pelagic fisheries, purse-seine fishery, longline fisheries, artisanal fisheries, aquaculture, offshore farms, joint-ventures,

- bluefin tuna, *Thunnus thynnus*, albacore, *Thunnus alalunga*, swordfish, *Xiphias gladius*, Sicily, Italy, Mediterranean Sea.
10. Andaloro F., Romeo T., Battaglia P., Incontro E., 2016. Rediscovering old fishing traditions in Sicily. Meeting on Historical Ecology of semi-enclosed basins: past, present and future of seas at risk, University of Padova, 3–4 October 2016. Book of abstracts: 24.
 - i. Fishing traditions, fishermen’s knowledge, ancient biodiversity, sustainable strategies, small-scale fisheries, spears, set nets, tuna traps, harpoons, lines and hooks, FADs, Palaeolithic, anthropology, architecture, fishing culture, cultural heritage, bluefin tuna, *Thunnus thynnus*, swordfish, *Xiphias gladius*, Sicily, Italy, Mediterranean Sea.
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- Euthynnus alletteratus*, white marlin, *Tetrapturus albidus*, *Kajikia albida*, black marlin, *Makaira indica*, *Istiompax indica*, Camogli., Liguria, Italy, Ligurian Sea, Mediterranean Sea.
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- i. Anthropology, ethnography, culture, tuna morphology, tuna migrations, tuna ethology, tuna reproduction, tuna spawning, traditions, myths, legends, religion, songs, cialoma, crew, Rais, fishermen, trap divers, tuna traps, trap technology, trap vessels, trap setting, tuna harvesting, mattanza, tuna industry, tuna canning, tuna in oil, salted tuna, dried tuna, tuna products, stomach, hearth, fillets, bottarga, trap history, traps list, traps locations, glossary in Italian, glossary in Spanish, bibliography, filmography, by-catch, dolphins, manta rays, sunfish, pelagic sharks, marine turtles, bluefin tuna, *Thunnus thynnus*, swordfish, *Xiphias gladius*, albacore, *Thunnus alalunga*, Mediterranean spearfish, *Tetrapturus belone*, skipjack tuna, *Katsuwonus pelamis*, Atlantic little tunny, *Euthynnus alletteratus*, yellowfin tuna, *Thunnus albacares*, southern bluefin tuna, *Thunnus maccoyii*, Pacific bluefin tuna, *Thunnus orientalis*, longtail tuna, *Thunnus tonggol*, blackfin tuna, *Thunnus atlanticus*, Sardinia, Sicily, Campania, Tuscany, Italy, Spain, Morocco, Portugal, France, Croatia, Turkey, Algeria, Tunis, Libya, Malta, Sardinian Sea, Strait of Sicily, western Mediterranean Sea, central Mediterranean Sea, Adriatic Sea, Levantine Sea, Marmara Sea, Mediterranean Sea, Atlantic Ocean.
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- i. Reproductive biology, gonads, intersexuality, histological analyses, histochemical analyses, swordfish, *Xiphias gladius*, Mediterranean Sea.
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- i. Halieutic, fishing gear, history, ancient fishery terminology, fish names, fishing gear names, tuna trap fishery, harpoon fishery, bluefin tuna, *Thunnus thynnus*, swordfish, *Xiphias gladius*, Mediterranean Sea.

Annex 2: Annotated Italian Electronic and Audio-Visual Resources on Swordfish, *Xiphias gladius* (SWO)

- Alliata di Villafranca F., 1948. Tra Scilla e Cariddi. Panaria Film sarl, Palermo. 10', movie.
 - Harpoon fishery, movie, history, vessels, feluca, luntro, fishermen, traditions, rituals, culture, fishing techniques, migrations, reproduction, swordfish, *Xiphias gladius*, Sicily, Calabria, Italy, Strait of Messina, Mediterranean Sea.
- Anonymous, 1913. Luntro. L'antica pesca del pesce spada nello Stretto di Messina, Video. <https://www.youtube.com/watch?v=B1VcxId9hgI>.

- i. Historical fishery, harpoon fishery, vessel, luntro, traditions, fishermen, anthropology, culture, swordfish, *Xiphias gladius*, Messina, Sicily, Calabria, Italy, Strait of Messina, Mediterranean Sea.
3. Anonymous, 2011. La Feluca San Francesco. Video. <https://www.youtube.com/watch?v=YqxsNzi-LIM>.
 - i. Harpoon fishery, traditional fishery, vessels, felucca, fishermen, rituals, swordfish, *Xiphias gladius*, Ganzirri, Messina, Sicily, Italy, Strait of Messina, Mediterranean Sea.
4. Anonymous, 2012a. Traina col vivo, Spada, Extreme fishing. Trabucco TV. <https://www.youtube.com/watch?v=mfYEzWZyPiU>.
 - i. Troll fishery, sport fishing, gear technology, live bait, swordfish, *Xiphias gladius*, Livorno, Tuscany, Italy, Tyrrhenian Sea, Mediterranean Sea.
5. Anonymous, 2012b. La pesca del pesce spada. Dadalab produzioni, video <https://www.youtube.com/watch?v=83iyGw5WDAw>.
 - i. Longline fishing, gear technology, baits, ligh lures, fishermen, market, swordfish, *Xiphias gladius*, Apulia, Italy, Monopoli, Adriatic Sea, Mediterranean Sea.
6. Anonymous, 2012c. Pesce spada. Enricocc, Video. https://www.youtube.com/watch?v=nhYXmAv_Ock.
 - i. Bottom longline, hake fishery, small scale fishery, bycatch, swordfish, *Xiphias gladius*, Pyrgadikia, Greece, Aegean Sera, Mediterranean Sea.
7. Anonymous, 2017. Tra Scilla e Cariddi a Caccia del pesce spada. Mappa dei Piaceri Ed. <https://www.youtube.com/watch?v=HnkwNvFcEq0>.
 - i. Harpoon fishery, traditional fishery, vessels, feluca, luntro, fishermen, history, museum, rituals, fish quality, swordfish, *Xiphias gladius*, Scilla, Calabria, Ganzirri, Sicily, Italy, Strait of Messina, Mediterranean Sea.
8. Anonymous, 2020. La brutale pesca con l'arpione del pesce spada. Essere animali. <https://www.youtube.com/watch?v=F0Fd1OIJS4I>.
 - i. Harpoon fishery, traditional fishery, vessel, feluca, fishermen, animal rights, swordfish, *Xiphias gladius*, Scilla, Calabria, Italy, Strait of Messina, Mediterranean Sea.
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 - i. Harpoon fishery, traditional fishery, vessels, feluca, luntro, fishermen, history, rituals, swordfish behaviour, seafood, recipes, swordfish, *Xiphias gladius*, Ganzirri, Messina, Sicily, Italy, Strait of Messina, Mediterranean Sea.
10. Antani D., 2020. Pesca del pesce spada Stretto di Messina, Giugno 2020, Cannitello. Video. <https://www.youtube.com/watch?v=Vi56itjQ8Ho>.
 - i. Harpoon fishery, traditional fishery, vessel, feluca, fishermen, rituals, swordfish, *Xiphias gladius*, Cannitello, Calabria, Italy, Strait of Messina, Mediterranean Sea.
11. Assumma G., 2018. *Xiphias*. Video. <http://www.giampieroassumma.com/xiphias/>.

- i. Harpoon fishery, traditions, rituals, images, photos, social aggregations, vessels, feluca, reproduction cycles, migrations, swordfish, *Xiphias gladius*, Sicily, Calabria, Italy, Strait of Messina, Mediterranean Sea.
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 - i. Harpoon fishery, traditions, rituals, songs, vessels, feluca, luntro, spotting man, spawning behaviour, migrations, swordfish, *Xiphias gladius*, Bagnara Calabria, Calabria, Italy, Strait of Messina, Tyrrhenian Sea, Mediterranean Sea.
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 - i. Swordfish harpoon fishery, vessel, feluca, fishermen, co-target species, Mediterranean spearfish, *Tetrapturus belone*, swordfish, *Xiphias gladius*, Torre Faro, Messina, Sicily, Italy, Strait of Messina, Mediterranean Sea.
14. Cagianesi G., 2009, Tonnara 3ª fase: la lavorazione del tonno. Video. https://www.youtube.com/watch?v=_oBRASmszBA.
 - i. Old trap fishery, old pictures, archaeology, tuna landing, tuna slaughtering, tuna industry, tuna workers, tuna canning, bluefin tuna, *Thunnus thynnus*, swordfish, *Xiphias gladius*, Favignana, Egadi Islands, Sicily, Italy, Strait of Sicily, Mediterranean Sea.
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 - i. Harpoon fishery, traditional fishery, vessel, feluca, fishermen, rituals, swordfish, *Xiphias gladius*, Scilla, Calabria, Italy, Strait of Messina, Mediterranean Sea.
16. Civita E., 2020. Traina col vivo: duello di spade. <https://www.youtube.com/watch?v=ZzYa7HpPEAI>.
 - i. Recreational fishery, drifting fishery, swordfish, *Xiphias gladius*, Sardinia, Italy, Sardinian Sea, Mediterranean Sea.
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 - i. Swimming behaviour, external parasites, weak fish, shallow water, spearfishing, recreational fishery, swordfish, *Xiphias gladius*, Civitavecchia, Latium, Italy, Tyrrhenian Sea, Mediterranean Sea.
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 - i. Swimming behaviour, spawning behaviour, fishermen, ancient fishery, harpoon fishery, harpoon vessels, feluche, luntro, traditions, fishermen's villages, songs, folklore, swordfish, *Xiphias gladius*, Bagnara Calabria, Scilla, Calabria, Torre Faro, Ganzirri, Messina, Sicily, Italy, Strait of Messina, Tyrrhenian Sea, Ionian Sea, Mediterranean Sea.
19. De Domenico R., 2020. #Feluca: la cattura del pesce spada nel mare di Pace. Video. <https://www.youtube.com/watch?v=dECP8yHs9uE>.

- i. Harpoon fishery, traditional fishery, vessels, feluca, fishermen, aerial views, swordfish, *Xiphias gladius*, Ganzirri, Pace, Messina, Sicily, Italy, Strait of Messina, Mediterranean Sea.
20. Donato N., 2014. La pesca del pesce spada nello Stretto di Messina. Video. https://www.youtube.com/watch?v=O-N_y_EvJNI.
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 - i. Tuna trap fishery, tuna harvesting, mattanza, fisherman, bluefin tuna, *Thunnus thynnus*, swordfish, *Xiphias gladius*, Favignana, Egadi Islands, Sicily, Italy, Strait of Sicily, Mediterranean Sea.
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 - i. Longline fishery, catches, landings, swordfish, *Xiphias gladius*, Arbatax, Sardinia, Italy, Sardinian Sea, Mediterranean Sea.
25. Gherardi G., 2019. S. Caterina a pesca con i palangari derivanti a pesce spada e tonno rosso. Video. <https://www.youtube.com/watch?v=tOUeirx6WZM>.
 - i. Longline fishing, vessel, fishermen, anthropology, demersal fishing, bluefin tuna, *Thunnus thynnus*, swordfish, *Xiphias gladius*, Marsala, Sicily, Italy, Strait of Sicily, Mediterranean Sea.
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 - i. Harpoon fishery, vessels, feluca, fishermen, traditions, rituals, songs, religion, *Xiphias gladius*, Ganzirri, Sicily, Italy, Strait of Messina, Mediterranean Sea.
27. Indaco A., 2018. Lu pisci spada. Video, songs. https://www.youtube.com/watch?v=KX9fsZ_OL98.
 - i. Swordfish culture, fisheries, driftnet fishery, longline fishery, markets, auction, folks, food habits, cooking, recipes, swordfish, *Xiphias gladius*, Marsala, Sicily, Italy, Strait of Sicily, Mediterranean Sea.

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 - i. Harpoon fishery, traditional fishery, vessels, luntro, fishermen, rituals, swordfish, *Xiphias gladius*, Ganzirri, Messina, Sicily, Italy, Strait of Messina, Mediterranean Sea.
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 - i. Family history, harpoon fishery, vessels, fishermen, diving, traditions, rituals, religion, *Xiphias gladius*, bluefin tuna, *Thunnus thynnus*, Ganzirri, Sicily, Italy, Strait of Messina, Mediterranean Sea.
30. Lo Monaco R., 2020. La lunga rotta. Università Politecnica delle Marche & Oceanis srl. https://www.youtube.com/watch?v=_3SAMdcAoa4.
 - i. Tuna trap fishery, longline fishery, purse-seine fishery, harpoon fishery, traditions, tuna quality, trade, export, Japanese market, fishery management, ICCAT, EBCD, research, observer programme, bluefin tuna, *Thunnus thynnus*, swordfish, *Xiphias gladius*, Marsala, Favignana, Ganzirri, Messina, Sicily, Italy, Malta, Strait of Sicily, Strait of Messina, Mediterranean Sea.
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 - i. Harpoon fishery, traditional fishery, vessel, feluca, fishermen, rituals, swordfish, *Xiphias gladius*, bluefin tuna, *Thunnus thynnus*, Ganzirri, Sicily, Italy, Strait of Messina, Mediterranean Sea.
32. Mancuso F, 2019. Pesce spada 2018. Video. <https://www.youtube.com/watch?v=wDX8wHaBWTs>.
 - i. Harpoon fishery, traditional fishery, vessel, feluca, fishermen, swordfish, *Xiphias gladius*, Ganzirri, Sicily, Italy, Strait of Messina, Mediterranean Sea.
33. Mange L., Passante G., 1949. Bagnara e la sua pesca. 11' movie.
 - i. Harpoon fishery, movie, history, vessels, feluca, luntro, fishermen, traditions, women, rituals, culture, fishing techniques, migrations, reproduction, swordfish, *Xiphias gladius*, Bagnara Calabria Calabria, Italy, Strait of Messina, Tyrrhenian Sea, Mediterranean Sea.
34. Marini M., 2019. Feluca la pesca al pescespada. Video. <https://www.youtube.com/watch?v=OarhNGRC5HM>.
 - i. Harpoon fishery, traditional fishery, vessel, feluca, fishermen, rituals, swordfish, *Xiphias gladius*, Ganzirri, Sicily, Italy, Strait of Messina, Mediterranean Sea.
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 - i. Harpoon fishery, traditional fishery, vessel, feluca, fishermen, rituals, swordfish, *Xiphias gladius*, Ganzirri, Sicily, Italy, Strait of Messina, Mediterranean Sea.
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- i. Fishermen village, harpoon fishery vessel, diving, benthic communities, swordfish, *Xiphias gladius*, Scilla, Calabria, Italy, Strait of Messina, Mediterranean Sea.
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 - i. Harpoon fishery, traditions, harvesting, behaviour, sonic digital document, song, swordfish, *Xiphias gladius*, Sicily, Italy, Strait of Messina, Mediterranean Sea.
38. Naccarato C., 2020. A Filù. Pesca e cattura del pesce spada nello Stretto di Messina. <https://www.youtube.com/watch?v=rYQj3cNgbKs>.
 - i. Harpoon fishery, traditional fishery, vessel, feluca, fishermen, rituals, swordfish, *Xiphias gladius*, Ganzirri, Sicily, Italy, Strait of Messina, Mediterranean Sea.
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 - i. Harpoon fishery, traditional fishery, vessel, feluca, fishermen, rituals, culture, old images, songs, swordfish, *Xiphias gladius*, Scilla, Bagnara Calabria, Calabria, Italy, Strait of Messina, Tyrrhenian Sea, Mediterranean Sea.
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 - i. Longline fishing, gear technology, baits, fishermen, market, swordfish, *Xiphias gladius*, Gallipoli, Apulia, Italy, Ionian Sea, Mediterranean Sea.
41. Pedone G., 2017b. La pesca del pesce spada. Ethno-Visual-Anthopolgy (E.V.A.), DAMS, Università del Salento, video. <https://www.youtube.com/watch?v=aNLOPN7-w8>.
 - i. Longline fishing, anthropology, gear technology, fishermen, vessels, bait, market, fish auction, swordfish, *Xiphias gladius*, Gallipoli, Apulia, Italy, Ionian Sea, Mediterranean Sea.
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 - i. Market, juveniles, IUU, import, artisanal fishery, controls, management, swordfish, *Xiphias gladius*, Catania, Sicily, Italy, Ionian Sea, Mediterranean Sea.
43. Quilici F., 1968–1970. La pesca del pesce spada e le leggende dello Stretto di Messina. Moana Film, movie. Folco Quilici Archive, 316 scenes.
 - i. Harpoon fishery, movie, history, vessels, feluca, luntro, fishermen, traditions, rituals, culture, legends, Fata Morgana, Cola Pesci, fishing techniques, migrations, reproduction, swordfish, *Xiphias gladius*, Ganzirri, Messina, Sicily, Italy, Strait of Messina, Mediterranean Sea.
44. Soldati M., 1950 (re-edited in 2012). La pesca al pescespada nello Stretto di Messina. RAI production, Roma, Video. https://www.youtube.com/watch?v=qauNvsEU370&list=RDew_gM8QIMd8&index=2 and <https://www.youtube.com/watch?v=Nivk0WWhQOs>.

- i. Harpoon fishery, interviews, vessels, feluca, luntro, fishermen, traditions, rituals, culture, fishing techniques, migrations, reproduction, swordfish, *Xiphias gladius*, Ganzirri, Messina, Sicily, Italy, Strait of Messina, Mediterranean Sea.
- 45. Torrente M., 2020. Favignana, Tonnara e Tonnaroti. Video. <https://vimeo.com/391298268>.
 - i. Tuna trap fishery, architecture, Museum, tuna harvesting, mattanza, Rais, fishermen, trap divers, traditions, rhythms, songs, cialoma, aja mola, bluefin tuna, *Thunnus thynnus*, swordfish, *Xiphias gladius*, Favignana, Egadi Islands, Sicily, Italy, Strait of Sicily, Mediterranean Sea.
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 - i. Harpoon fishery, traditional fishery, vessel, feluca, fishermen, swordfish, *Xiphias gladius*, Ganzirri, Sicily, Italy, Strait of Messina, Mediterranean Sea.
- 47. Vento Y., 2020b. Ammennenzu 'u mari. Feluca. Caccia al pesce spada. Video. <https://www.youtube.com/watch?v=YPvPYNroAY4>.
 - i. Harpoon fishery, traditional fishery, vessel, feluca, fishermen, swordfish, *Xiphias gladius*, Ganzirri, Sicily, Italy, Strait of Messina, Mediterranean Sea.

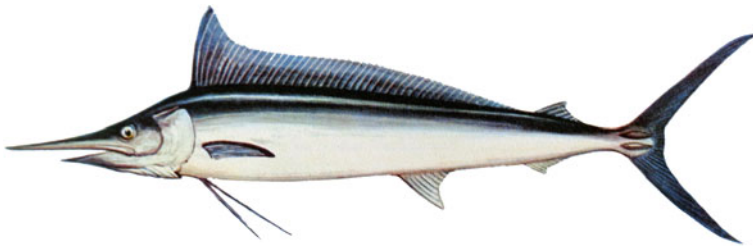
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Comprehensive Italian Annotated Bibliography on the Mediterranean Spearfish (*Tetrapturus belone*, Rafinesque, 1810), and on Other Billfish and Spearfish Species

Antonio Di Natale, Corrado Piccinetti, Piero Addis, Fulvio Garibaldi, and Fausto Tinti



A. Di Natale (✉)

Aquastudio Research Institute, Via Trapani 6, 98121 Messina, Italy
e-mail: adinatale@acquariodigenova.it

C. Piccinetti

Laboratorio di Biologia Marina e Pesca, University of Bologna in Fano, Viale Adriatico 1, 61032 Fano, PU, Italy
e-mail: corrado.piccinetti@unibo.it

P. Addis

Dipartimento di Scienze della Vita e dell'Ambiente, University of Cagliari, Via Fiorelli 1, 09126 Cagliari, Italy
e-mail: addisp@unica.it

F. Garibaldi

Laboratory of Fish and Fishery Biology, Department of Earth, Environment and Life Sciences (DISTAV), DISTAV, St. VII-16, University of Genova, Corso Europa 26, 16132 Genova, Italy
e-mail: fulvio.garibaldi@unige.it

F. Tinti

Laboratory Genetics & Genomics of Marine Resources & Environment (GenoDREAM), Department Biological, Geological & Environmental Sciences, University of Bologna, Via Sant'Alberto, 163, 48100 Ravenna, Italy
e-mail: fausto.tinti@unibo.it

Abstract

The Italian scientists have a long tradition of studies and research on many large pelagic species, including spearfishes and billfishes. One of these species (*Tetrapturus belone*), the only one which can be considered really Mediterranean, can show relevant catches in some years, while other species are incidental or vagrant. This paper is providing a comprehensive bibliography on these species, listing a total of 175 papers published so far by Italian scientists, concerning the biology, the fisheries and many other scientific issues. The aim of this paper is to improve as much as possible the access to the bibliography, with specific keywords, even if it is still surely incomplete, because sometimes the information on Mediterranean spearfish or other more rare billfish species is hidden in some papers on other pelagic fisheries. This bibliography was set-up together to serve the scientists and to help them in finding some rare references that might be useful for their work.

Keywords

Atlantic sailfish • Bibliography • Billfish species • Biology • Black marlin • Blue marlin • Catches • Driftnet fishery • Feeding • Fishery • Harpoon fishery • History • *Istiompax indica* • Istiophoridae • *Istiophorus albicans* • *Kajikia albida* • *Kajikia audax* • Longbill spearfish • Longline fishery • *Makaira nigricans* • Mediterranean spearfish • Nomenclature • Purse-seine fishery • Recreational fishery • Reproduction • Roundscale spearfish • Shortbill spearfish • Spearfish species • Striped marlin • Systematics • Techniques • *Tetrapturus angustirostris* • *Tetrapturus belone* • *Tetrapturus georgii* • *Tetrapturus pfluegeri* • Trap fishery • White marlin

1 Foreword

All species belonging to the Istiophoridae always induced a great curiosity among scientists, but the many difficulties for studying the cryptic aspects of their erratic life always created problems for scientific studies. Therefore, the scientific literature on these species is limited compared to other large pelagic species, even if the number of international papers on their fishery is certainly not negligible. Furthermore, the Mediterranean Sea has just one historically native species, the Mediterranean spearfish (*Tetrapturus belone*), while vagrant individuals of other species were detected in the Mediterranean Sea over the last centuries, increasing the scientific interests for this fish family.

This paper provides the annotated overview of the Italian literature on Mediterranean spearfish (*Tetrapturus belone*, Rafinesque, 1810) (FAO code: MSP) and on other more incidental or vagrant billfish and spearfish species or those studied in their usual distribution area in other Oceans (generally coded as BIL by FAO and ICCAT), such as the shortbill spearfish, *Tetrapturus angustirostris*, Tanaka, 1815,

(FAO code: SSP), the roundscale spearfish, *Tetrapturus georgii*, Lowe, 1841, (FAO code: RSP), the longbill spearfish, *Tetrapturus pfluegeri*, Robins and de Sylva, 1963, (FAO code: SPF), the white marlin, *Kajikia albida* (Poey, 1860) (FAO code: WHM), the striped marlin, *Kajikia audax* (Philippi, 1887) (FAO code: MLS), the black marlin, *Istiompax indica* (Cuvier, 1832) (FAO code: BLM), the Atlantic sailfish, *Istiophorus albicans* (Latreille, 1804)¹ (FAO code: SAI), and the blue marlin, *Makaira nigricans*, Lacépède, 1802, (FAO code: BUM).

After the publication of the first tentative Italian annotated bibliographies on Mediterranean spearfish and other Istiophoridae (Tinti *et al.*, 2019; Di Natale, 2020), it was very clear that there was the need to further and deeply explore archives and libraries for recovering additional papers, which escaped from the previous reviews, with the objective to provide a more comprehensive bibliography.

The choice of focussing mostly on the Mediterranean spearfish was driven by the fact that this species is the only one really distributed mostly in the Mediterranean Sea and it is reported and observed since old times (even if it is not regularly considered by ICCAT statistics), while most of the incidental species are known since at least one century in the Mediterranean Sea; a few ones are recent immigrants or vagrants, while other were studied in their distribution areas. All these species have a good market, and therefore, they are important for the various fisheries and for providing high-value proteins. They also have an apex ecological role in the marine environment, and therefore, their sustainable management is certainly necessary.

The International Commission for the Conservation of Atlantic Tunas (ICCAT) is the Regional Fishery Management Organisation (RFMO) that is in charge of managing all these species in the Atlantic Ocean, in the Mediterranean Sea and in the adjacent waters. The Mediterranean spearfish has a stock distributed mostly in the Mediterranean Sea, while the other species are distributed mostly in the Atlantic Ocean and a few vagrants are also distributed in the Indian Ocean, and therefore, managed by the Indian Ocean Tuna Commission (IOTC). Several foreign researchers working on these species suppose that the Mediterranean spearfish is poorly known and sometimes miss the information on the other billfish species in the Mediterranean Sea.

This wrong perception is possibly induced by the fact that many papers included in the Italian bibliography on billfish are written in Italian, a language which is not on the list of the three official ones used in ICCAT (English, French and Spanish), and possibly some scientists may have problems in understanding the contents. Another reason for setting-up this additional annotated bibliography is because several papers are still not available in electronic format. Therefore, some young researchers who are not used anymore studying and mining in traditional libraries

¹ This work makes reference to the official name used by ICCAT, even if there are scientific papers claiming that there is only one sailfish species, *Istiophorus platypterus*, distributed in the Pacific and Atlantic Ocean. Even the IUCN considers just one species. This issue will be discussed soon by ICCAT SCRS, but in the meanwhile we will keep the current official name.

could be likely unable to detect the many studies that have been carried out so far on these species.

However, as a matter of fact, most of the modern (the last 200 years) studies on Mediterranean spearfish had mainly Italian or Spanish authors, even if Italian authors are the large majority. On the opposite, the other billfish and spearfish species have been mostly studied by foreign authors.

An indexed bibliography, limited to tagging and including also various billfish species, was published by Bayliff (1993). Not-annotated literature reviews, including also billfish and spearfish species were provided by Nakamura (1985), Ehrhardt and Fitchett (2016) and Collette and Graves (2019).

Therefore, it is again a sort of national proudness providing this annotated list of Italian papers on the Mediterranean spearfish and other billfish and spearfish species that it was possible to find so far, annotating them with keywords in English for improving the opportunities to detect them by an electronic searching engine.

2 Criteria

Following the same methodology adopted in the previous and preliminary Italian annotated bibliographies on these species (Tinti *et al.*, 2019; Di Natale, 2020), the bibliography on Mediterranean spearfish and other billfish and spearfish species included in this work was selected when an Italian scientist was the only author of a paper or when one or more Italian scientists were among the authors of collective papers.

This was the primary criterion used for selecting the many titles, independently if they were peer-review papers, books, not-peer-review papers, papers presented in conferences, meetings or congresses, reports to public administrations or project reports. A secondary criterion, for paper selection, considered those documents directly related to the target species (Mediterranean spearfish and other billfish and spearfish species), even if, in some cases, these species are concerned by just a marginal part of the text.

When vernacular names or old scientific names were used in the original paper, they were possibly listed in the annotation; old scientific names or old vernacular names made the selection work even more difficult. The annotations required for each paper need to be checked in detail and this implied a huge workload.

The annotations show the main subjects in the content, and the descriptors proposed by ASFIS (Fagetti *et al.*, 2009) have been mostly used, adding additional descriptors when necessary. As concerns the main species included in each reference, we used both the international common name(s) and the Latin name(s).

3 Discussion

One of the major problems for the current bibliography, after selecting a paper, was the need to homogenise as much as possible the style of all citations, which were sometimes reported under many different styles. Apparently, this fact can appear as a minor problem, but it required an amount of work and time.

The number of titles that is now available (including those previously provided by Tinti *et al.*, 2019 and Di Natale, 2020) surely constitutes a very useful reference list for all the researchers working on Mediterranean spearfish and other spearfish and billfish species (namely: shortbill spearfish, roundscale spearfish, longbill spearfish, white marlin, striped marlin, black marlin, Atlantic sailfish and blue marlin), which are often neglected particularly when discussing about their presence in the Mediterranean Sea, including SCRS² and ICCAT in recent years. The opportunity provided in recent times by the web is certainly improving the number of available papers and documents on these species and their related fisheries.

This Italian annotated bibliography required an amount of work and a lot of attention, due to the fact that several documents were published not only by marine scientists, but also by researchers, writers and journalists dealing with other disciplines, making the search very wide and difficult, certainly very multidisciplinary.

Even limiting the bibliography to the works where an Italian scientist was among the authors, the number of citations discovered so far is higher than it was imagined at the beginning, being anyway conscious that the current list is certainly incomplete.

At the same time, during this bibliographic search, it was amazing to learn so many details about all these species. Going through the various titles (and the text behind) in the bibliography, it is possible to find important data and biological information, but also historical information which is important particularly for other billfish and spearfish species, which are often considered as not present in the Mediterranean Sea. Furthermore, it is important to notice that few papers and books concerning the Mediterranean spearfish were published even before the official description of the species was made, because it was originally described just with a local vernacular name, but the species was anyway clearly identifiable.

This work provides and lists 175 papers (Fig. 1). Among these, 29 (16.57%) were published before the end of the nineteenth century, with a peak of 21 in the second half of the nineteenth century, but one paper was published also in the eighteenth century by Mongitore (1743), well before the original description of the Mediterranean spearfish. 19 papers were published between 1900 and 1949, with a maximum of 6 papers in the '10s. Between 1940 and 1949 the number of scientific papers considerably decreased, due to the 2nd World War.

² SCRS: Standing Committee for Research and Statistics. It is the scientific reference body in ICCAT.

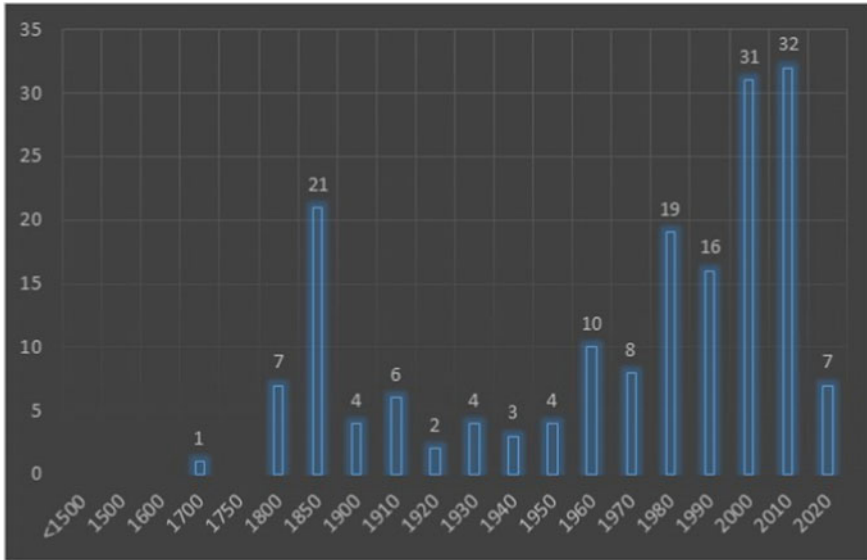


Fig. 1 Number of the papers published on spearfish and billfish species by Italian authors from the XVIII century to 2020

An increasing Italian scientific production on billfishes and spearfishes can be noticed just after the 2nd World War, slowly growing over the decades: 4 papers in the '50s, 10 in the '60s, 8 in the '70s, for growing much more in the '80s, when the first Italian national research triennial plan was adopted by the Ministry of Merchant Marine³. It was followed by a series of triennial research plans, with an Italian research coordinated activity on all large pelagic species, till the year 2002, providing 19 papers in the '80s and 16 papers in the '90s. Then, most of the research activities were enhanced by the EC Data Collection Programme, followed by the EC Data Collection Framework, which is still active; 31 papers were published in the years 2000–2009, while a peak of 32 papers have been published between 2010 and 2019. 7 papers have been published in 2020.

A large majority of the documents (132 papers, 75.43%) are in Italian, thus causing an issue in the accessibility and readability in recent times. These papers were published when the Italian language was mandatory, or when foreign languages were not used, or because they were Italian official domestic reports. For these papers, the current annotation in English now allows all scientists to better understand the contents. The remaining 24.57% of the papers are written in other 2 languages, being those in English the majority (41 papers, 23.43%), while 2 papers or books (1.14%) are in Latin, a classical language that was used by many authors in previous centuries. Figure 2 provides a graphic image of the languages

³ Now the Ministry of Agriculture, Food and Forestry Policies (MIPAAF).

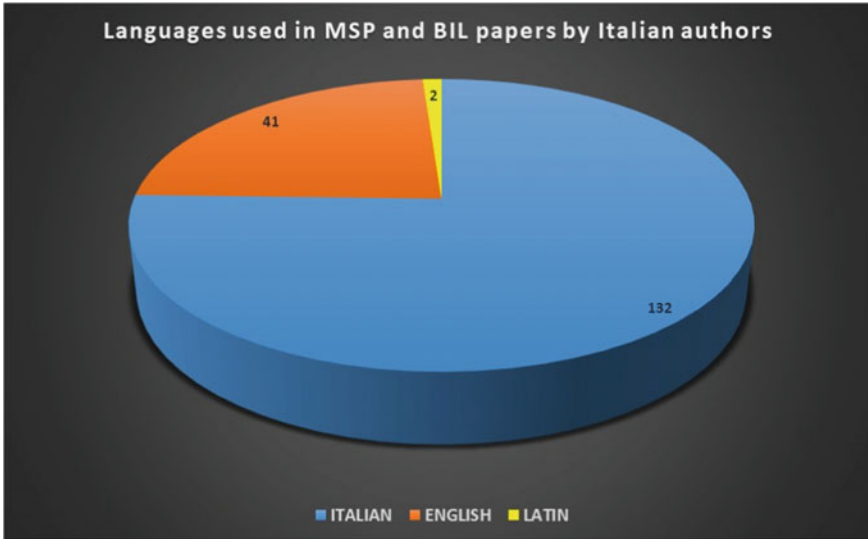


Fig. 2 Graphic proportion of the different languages used by Italian authors in papers related to billfish and spearfish species

used by the Italian authors in papers on billfish and spearfish species which are listed in this annotated bibliography.

The annotations allow identifying most of the many themes included in each paper. Tables 1a and 1b show the most relevant themes in the annotations and it is interesting to see how many aspects of the spearfishes and billfishes have been examined by the various Italian authors over the recent centuries.

As concerns the species, the Mediterranean spearfish is obviously the most relevant species (146 papers, 83.43%), followed by the white marlin (36 papers, 20.57%), the black marlin and the Atlantic sailfish (13 papers each, 7.43% each), the roundscale spearfish (9 papers, 5.14%), the blue marlin (8 papers, 4.57%), the shortbill spearfish (6 papers, 3.43%), the longbill spearfish (3 papers, 1.71%), the Indo-Pacific sailfish (2 papers, 1.14%) and the striped marlin (1 paper, 0.57%), while generic “billfishes” are reported in 4 papers (2.29%), generic “spearfishes” species in just 1 paper (0.57%), and generic Istiophoridae in 2 papers (1.14%). The nomenclature is reported in 32 papers (18.29%), the systematics in 13 papers (7.43%), while check-lists or catalogues are in 16 papers (9.14%), bibliography is in 5 papers (2.86%) and the vernacular names are reported in 15 papers (8.57%). The distribution of the species is reported in 39 papers (22.29%), the description of the species in 31 papers (17.71%) and the morphology in 30 papers (17.14%). The migrations are reported in 19 papers (10.86%), while the seasonality is described in 9 papers (5.14%).

Almost all papers are specifically related to the Mediterranean Sea (172 documents, 98.29%), while the Atlantic Ocean is mentioned in 13 papers (7.43%), and

Table 1a Percentages of the different themes included in the annotations to the Italian bibliography on Mediterranean spearfish and other billfish and spearfish species (first part)

Annotations			Annotations		
Theme	No	%	Theme	No	%
Nomenclature	32	18.29	Dorsal rays/Spines	3	1.71
Systematics	13	7.43	Vertebrae	1	0.57
Vernacular names	15	8.57	Scales	1	0.57
Dictionary	2	1.14	Size frequencies	12	6.86
Bibliography/Glossary	5	2.86	Weight	7	4.00
Check-list/Catalogue	16	9.14	Length	8	4.57
Billfish species	4	2.29	Feeding	6	3.43
Spearfish species	1	0.57	Diet	2	1.14
Istiophoridae	2	1.14	Trophic chain	3	1.71
Mediterranean spearfish	146	83.43	Stomach contents	2	1.14
Shortbill spearfish	6	3.43	Fish/flesh quality	1	0.57
Roundscale spearfish	9	5.14	Analyses	1	0.57
Longbill spearfish	3	1.71	Biomarkers	1	0.57
White marlin	36	20.57	Bioaccumulation	2	1.14
Black marlin	13	7.43	Heavy metals	1	0.57
Blue marlin	8	4.57	Trace elements	1	0.57
Striped marlin	2	1.14	Food safety	2	1.14
Atlantic sailfish	13	7.43	Vitellogenin	1	0.57
Indo-Pacific sailfish	2	1.14	Zona radiata	1	0.57
Morphology	30	17.14	Genetics	3	1.71
Description	31	17.71	Top predators	2	1.14
Distribution	39	22.29	Predation	3	1.71
Species identification	6	3.43	Tagging	1	0.57
Migrations	19	10.86	Fleets	11	6.29
Seasonality	9	5.14	Vessels	12	6.86
Populations	3	1.71	Fishing gear	15	8.57
Behaviour/ethology	11	6.29	Driftnets	20	11.43
Ecology	4	2.29	Gillnets	7	4.00
Biology	37	21.14	Longlines	37	21.14
Reproductive biology	7	4.00	Purse seine	20	11.43
Sex ratio	3	1.71	Harpoon	37	21.14
Reproduction	11	6.29	Traps	45	25.71
Sexual maturity	2	1.14	Hand line/Troll line	17	9.71
Spawning	8	4.57	Sport/recreational fishery	12	6.86

(continued)

Table 1a (continued)

Annotations			Annotations		
Theme	No	%	Theme	No	%
Eggs	9	5.14	Small-scale/artisanal fishery	11	6.29
Larvae	15	8.57	Gear impact	8	4.57
Growth	5	2.86	Catches/yields	36	20.57
Juveniles	16	9.14	By-catch	11	6.29
YOY	2	1.14	CPUE	12	6.86
Ageing	4	2.29	Statistics	2	1.14
Otoliths	2	1.14	Stocks	1	0.57

the Indian Ocean and the Pacific Ocean are both mentioned by 4 papers (2.29% each). Looking at the various areas within the Mediterranean Sea, the Tyrrhenian Sea is mentioned in 41 papers (23.43%), the Strait of Messina in 29 papers (16.57%), the Adriatic Sea and the Ionian Sea in 27 papers (15.43% each), the Ligurian Sea in 26 papers (14.86%), the Strait of Sicily in 20 papers (11.43%), and the Sardinian Sea in 6 papers (3.43%), while the other parts of the basin have less citations; it is important to note that the presence of these species is reported also in the Marmara Sea/Black Sea (2 papers, 1.14%). Italy is mentioned in 120 papers (68.57%), but several other Mediterranean countries are also mentioned in various papers. Sicily, being one of the main Italian fishing areas for Mediterranean spearfish and other billfish species, is mentioned in 27 papers (15.43%), followed by Calabria (10 papers, equal to 5.71%) and Liguria (9 papers, equal to 5.14%); other Italian Regions are less mentioned.

The fishing methods have also a clear relevance: the trap fishery is mentioned in 45 papers (25.71%), followed by the harpoon and longline fisheries (37 papers, 21.14% each), the driftnets and the purse seiners (20 papers each, 11.43% each), the lines (hand-lines and troll lines) (17 papers, 9.77%), the sport/recreational fisheries (12 papers, 6.9%) and the small-scale/artisanal fisheries (11 papers, 6.29%). Various impacts caused by the gears are mentioned in 8 papers (4.57%) and by-catch is reported in 11 papers (6.29%). Catches and yields are obviously important (36 papers, 20.57%), but also the CPUE⁴ and the size frequencies composition (12 papers each, 6.86% each), while statistics and information about the stocks are poorly available.

Biology is very important (37 papers, 21.14%), and in particular, the reproduction (11 papers, 6.29%), the spawning (8 papers, 4.57%) and the reproductive biology (7 papers, 4%). Larvae are studied in 15 papers (8.57%), juveniles in 16 papers (9.14%) and eggs in 9 papers (5.14%). The environment is a relevant theme (14 papers, 8%), along with the management (11 papers, 6.29%) and the economy (9 papers, 5.14%). History is also important (22 papers, 12.57%), possibly because

⁴ Catch Per Unit Effort

Table 1b Percentages of the different themes included in the annotations to the Italian bibliography on Mediterranean spearfish and other billfish and spearfish species (second part)

Annotations			Annotations		
Theme	No	%	Theme	No	%
Stock assessment	1	0.57	Algeria	2	1.14
Stock structure	3	1.71	Croatia	5	2.86
Stock status	4	2.29	Cyprus	2	1.14
Models/modelling	2	1.14	France	6	3.43
Multidisciplinary approach	1	0.57	Greece	5	2.86
Tagging	3	1.71	Italy	120	68.57
Biodiversity	3	1.71	Libya	2	1.14
Environment	14	8.00	Malta	4	2.29
Oceanography	2	1.14	Spain	4	2.29
Thermal fronts	1	0.57	Turkey	4	2.29
Tides	1	0.57	Apulia	7	4.00
Currents	5	2.86	Basilicata	3	1.71
Plankton	4	2.29	Calabria	10	5.71
Pollution	1	0.57	Campania	9	5.14
Management	11	6.29	Latium	2	1.14
RFMO(s)	3	1.71	Liguria	9	5.14
ICCAT	5	2.86	Sardinia	7	4.00
GFCM	2	1.14	Sicily	27	15.43
FAO	1	0.57	Economy	9	5.14
IUCN	9	5.14	Markets	3	1.71
Regulations/Laws	5	2.86	Canning	4	2.29
Rules	1	0.57	Salted products	5	2.86
Royalties	4	2.29	Salt plants/salt pan/saline	1	0.57
Threats	1	0.57	Trade	3	1.71
Geography	1	0.57	Import	2	1.14
Atlantic Ocean	13	7.43	Export	2	1.14
Mediterranean Sea	172	98.29	Social aspects	8	4.57
Western Mediterranean Sea	1	0.57	Fishermen	11	6.29
Sardinian Sea	6	3.43	Rais	3	1.71
Ligurian Sea	26	14.86	Anthropology	4	2.29
Strait of Sicily	20	11.43	Rituals	3	1.71
Central Mediterranean Sea	1	0.57	Traditions	9	5.14
Tyrrhenian Sea	41	23.43	Architecture	2	1.14
Strait of Messina	29	16.57	History	22	12.57

(continued)

Table 1b (continued)

Annotations			Annotations		
Theme	No	%	Theme	No	%
Adriatic Sea	27	15.43	Medium Age	3	1.71
Ionian Sea	27	15.43	Modern Age	2	1.14
Aegean Sea	1	0.57	Legends	4	2.29
Levantine Sea	2	1.14	Myths	2	1.16
Black Sea/Marmara Sea	2	1.14	Culture	6	3.43
Indian Ocean	4	2.29	Food habits	2	1.14
Pacific Ocean	4	2.29	Recipes	3	1.71

of the harpoon fishery traditions, but fishermen (11 papers, 6.29%), traditions (9 papers, 5.14%), social aspects (8 papers, 4.57%) and culture (6 papers, 3.43%) shows the ancient roots of the fishery targeting mostly the Mediterranean spearfish.

Table 2 shows the ranking of the main authors included in the Italian annotated bibliography on billfish and spearfish species, over a total of 228 different authors. Based on the institutional workplace of each author, it is very clear that the main authors are belonging to most of the traditional research centres targeting the large pelagics in Italy: Messina, Bologna-Fano, Genova and Venezia, but also with the relevant presence of Cagliari, Palermo and Naples, where universities and other research institutes are located since many years. Among the main authors, there are most of the Italian national research coordinators for the large pelagics over the years (Arena, Di Natale, Orsi Relini and Piccinetti). Anonymous papers are just 7, only 4% of the total.

Due to the number of references, the Italian annotated bibliography on Mediterranean spearfish and other billfish and spearfish species is provided in Annex 1 to this paper.

4 Conclusion

The Mediterranean spearfish and the other billfish and spearfish species in the Mediterranean Sea usually are not mentioned by the ICCAT SCRS Billfish Species Group, even if in the past, for few years, the Mediterranean spearfish was included in the annual report, along with the related data on catches. Recently, the Mediterranean spearfish was again included in the report, but the catch statistics are very partial. This is mirroring the scarce and marginal consideration for this species in several groups of marine scientists, while other incidental billfish and spearfish species caught in the Mediterranean Sea are usually not even considered. Possibly, besides the limited attention by several marine scientists, this is also the result of the difficulties in finding the scientific bibliography on these species.

The list of Italian books, scientific papers and documents on spearfish and billfish species here provided is still certainly incomplete and we hope that this work

Table 2 List of the main authors included in the Italian annotated bibliography on Mediterranean spearfish and other billfish and spearfish species

Ranking	Author	Number of MSP & BIL papers
1	Di Natale Antonio	27
2	Mangano Antonia	12
3	Andaloro Franco	11
3	Garibaldi Fulvio	11
3	Navarra Enrico	11
3	Orsi Relini Lidia	11
3	Tortonese Enrico	11
3	Valastro Massimiliano	11
4	Fortibuoni Tomaso	6
4	Vacchi Marino	6
5	Battaglia Pietro	5
5	D'Onghia Gianni	5
5	Fiorentino Fabio	5
5	Giovanardi Otello	5
5	Nardo GianDomenico	5
5	Potoschi Antonio	5
5	Romeo Teresa	5
5	Tunesi Leonardo	5

Other Authors (between 4 and 2 papers), over a total of 228 Italian Authors

Celona A., Piccinetti C., (4), Addis P., Cattaneo Vietti R., Cavanna G., Conci C., Consoli P., Costa F., Griffini A., Libralato S., Parona C., Pederzoli A., Raicevich S., Rossi G., Schimmenti G., Solidoro C., Spartà A., Torchio M., Zava B., (3), Ancora S., Arena P., Azzurro E., Bava S., Bini G., Bonaparte C.L.J.L., Canestrini G., Castriota L., Cicero N., Cima C., De Metrio G., Doderlein P., Fossi M.C., Giglioli E., Lanteri L., Lo Bianco S., Magrini A., Malara D., Manganaro A., Manzoni P., Maurizi A., Montaldo L., Palandri G., Pedà C., Perzia P., Pinca S., Placenti V., Potoschi A.jr., Sarà M., Sarà R., Torchia G., Trois E.F., (2)

Anonymous Author

7

may further stimulate the researchers, with the purpose to create a complete reference literature to be used by all the scientists working on these species or on related subjects, for helping them in their work.

Several other documents on these species are certainly still kept in various archives, either public or private, sometimes in ancient libraries, old company's archives, fishers' logbooks, and in other places, being the Mediterranean spearfish a usual historical by-catch in several fisheries, and a co-target species for the harpoon, the driftnet and the longline fisheries. Indeed, this is a never-ending work and we should be conscious that this work will be never completed, hoping that the same type of knowledge recovery will be carried out in other countries.

One of the most traditional fishing techniques for the Mediterranean spearfish, the harpoon fishery, has a know-how that remained almost the same since centuries, with very limited technological improvements (implemented mostly in the last half-century), allowing also for good scientific research on this species. The development of the driftnet fishery till the year 2000 (before the ban in 2002) and the longline fishery changed considerably both the fishing and the opportunities for the biological sampling for all the spearfish and billfish species. This is particularly important for monitoring incidental catches of billfish and spearfish species in the Mediterranean, also because of the effects of climate change and global warming.

As it was pointed out in a previous paper (Di Natale, 2018), in recent years, many scientists and particularly (but not only) young researchers are adopting a sort of selective attitude when they set-up their papers, avoiding even to mention papers which were not published in peer-reviewed journals or by scientists who are competing with them, mostly for academic reasons. This attitude is clearly causing a sort of scientific disaster, because there are several very recent papers which are not at all using the knowledge available till the '70s, which sometimes means forgetting the largest part of the scientific knowledge we already have.

Clearly, there is a need to improve the knowledge on previous available studies on the Mediterranean spearfish and other spearfish and billfish species which were and are present in the Mediterranean Sea, and this annotated bibliography was made exactly for providing a helping hand to all the researchers working on these species.

Annex 1: Italian Annotated Bibliography on Mediterranean Spearfish (MSP) and Other Billfish and Spearfish Species (BIL)

- (1) Amori G., Angelici F.M., Frugis S., Gandolfi G., Groppali R., Lanza B., Relini G., Vicini G., 1993. Vertebrata. In A. Minelli, S. Ruffo and S. La Posta (eds.) Checklist delle specie della fauna Italiana. Calderini Edit., Bologna, 1–83.
 - (i) Italian fauna, vertebrates, checklist, marine species, fish species, bluefin tuna, *Thunnus thynnus*, albacore, *Thunnus alalunga*, swordfish, *Xiphias gladius*, Mediterranean spearfish, *Tetrapturus belone*, roundscale spearfish, *Tetrapturus georgii*, white marlin, *Tetrapturus albidus*, *Kajikia albida*, Atlantic sailfish, *Istiophorus albicans*, black marlin, *Makaira indica*, *Istiompax indica*, bullet tuna, *Auxis rochei*, Atlantic little tunny, *Euthynnus alletteratus*, skipjack tuna, *Katsuwonus pelamis*, plain bonito, *Orcynopsis unicolor*, Atlantic bonito, *Sarda sarda*, Italy, Ligurian Sea, Tyrrhenian Sea, Sardinian Sea, Strait of Sicily, Italy, Ionian Sea, Adriatic Sea, Italian seas, Mediterranean Sea.
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Turkey, Algeria, Tunis, Libya, Malta, Sardinian Sea, Strait of Sicily, western Mediterranean Sea, central Mediterranean Sea, Adriatic Sea, Levantine Sea, Marmara Sea, Mediterranean Sea, Atlantic Ocean.

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FAO Codes for the Species Included in the Italian Annotated Bibliography on Tuna, Tuna-like and Billfishes

The common names in English, French and Spanish are from FAO, and the common names in Italian are those officially provided by the Italian Ministry Decree no. 19105 on 22 September 2017, while the Editor proposes those names marked with an asterisk because they are not included in the Decree.

Species Code	Scientific name	English	Francais	Español	Italiano
WAH	<i>Acanthocybium solandri</i>	Wahoo	Thazard-bâtard	Peto	Acantocibio
BLT	<i>Auxis rochei</i>	Bullet tuna	Bonitou	Melva(=Melvera)	Biso (Tombarello)
FRI	<i>Auxis thazard</i>	Frigate tuna	Auxide	Melva	Biso (Tombarello)
LTA	<i>Euthynnus alletteratus</i>	Atlantic little tunny	Thonine commune	Bacoreta	Tonnetto (Alletterato)
BKJ	<i>Euthynnus lineatus</i>	Black skipjack	Thonine noire	Barrilete negro	Tonnetto del Pacifico*
DOT	<i>Gymnosarda unicolor</i>	Dogtooth tuna	Bonite à gros yeux	Casarte ojón	Palamita occhi grossi
BLM	<i>Istiompax indica</i>	Black marlin	Makaire noir	Aguja negra	Marlin indopacifico
BIL	<i>Istiophoridae</i>	Marlins, sailfishes, etc. nei	Makaires,marlins,voiliers nca	Agujas,marlines,peces vela nep	Istioforidi
SAI	<i>Istiophorus albicans</i>	Atlantic sailfish	Voilier de l'Atlantique	Pez vela del Atlántico	Pesce vela
SFA	<i>Istiophorus platypterus</i>	Indo-Pacific sailfish	Voilier indo-pacifique	Pez vela del Indo-Pacífico	Pesce vela del Pacifico
WHM	<i>Kajikia albida</i>	Atlantic white marlin	Makaire blanc de l'Atlantique	Aguja blanca del Atlántico	Marlin (Marlin bianco*)
MLS	<i>Kajikia audax</i>	Striped marlin	Marlin rayé	Marlín rayado	Marlin striato*

Species Code	Scientific name	English	Francais	Español	Italiano
SKJ	<i>Katsuwonus pelamis</i>	Skipjack tuna	Listao	Listado	Tonnetto striato
BUM	<i>Makaira nigricans</i>	Blue marlin	Makaire bleu	Aguja azul	Marlin blu
BOP	<i>Orcynopsis unicolor</i>	Plain bonito	Palomette	Tasarte	Palamita bianca
RAG	<i>Rastrelliger kanagurta</i>	Indian mackerel	Maquereau des Indes	Caballa de la India	Sgombro indiano*
BEP	<i>Sarda chiliensis</i>	Eastern Pacific bonito	Bonite du Pacifique oriental	Bonito del Pacífico oriental	Palamita del Pacífico orientale*
BON	<i>Sarda sarda</i>	Atlantic bonito	Bonite à dos rayé	Bonito del Atlántico	Palamita
BRS	<i>Scomberomorus brasiliensis</i>	Serra Spanish mackerel	Thazard serra	Serra	Maccarello reale brasiliano*
KGM	<i>Scomberomorus cavalla</i>	King mackerel	Thazard barré	Carite lucio	Maccarello reale
COM	<i>Scomberomorus commerson</i>	Narrow-barred Spanish mackerel	Thazard rayé indo-pacifique	Carite estriado Indo-Pacífico	Maccarello reale Indo-Pacífico*
CER	<i>Scomberomorus regalis</i>	Cero	Thazard franc	Carite chinigua	Maccarello franco
MAW	<i>Scomberomorus tritor</i>	West African Spanish mackerel	Thazard blanc	Carite lusitánico	Maccarello bianco
TUX	<i>Scombroidei</i>	Tuna-like fishes nei	Poissons type thon nca	Peces parec. a los atunes nep	Scombroidei
SSP	<i>Tetrapturus angustirostris</i>	Shortbill spearfish	Makaire à rostre court	Marlín trompa corta	Aguglia imperiale a becco corto
MSP	<i>Tetrapturus belone</i>	Mediterranean spearfish	Marlin de la Méditerranée	Marlín del Mediterráneo	Aguglia imperiale
RSP	<i>Tetrapturus georgii</i>	Roundscale spearfish	Makaire épée	Marlín peto	Aguglia imperiale a becco tondo*
SPF	<i>Tetrapturus pfluegeri</i>	Longbill spearfish	Makaire bécune	Aguja picuda	Aguglia imperiale puntuta*
TUN	<i>Thunnini</i>	Tunas nei	Thonidés nca	Atunes nep	Tunnidi
SMT	<i>Thunnini (small)</i>	Small tunas	Petit thons	Pequeños Atunes	Piccoli tunnidi*
ALB	<i>Thunnus alalunga</i>	Albacore	Germon	Atún blanco	Alalunga
YFT	<i>Thunnus albacares</i>	Yellowfin tuna	Albacore	Rabil	Tonno a pinne gialle
BLF	<i>Thunnus atlanticus</i>	Blackfin tuna	Thon à nageoires noires	Atún aleta negra	Tonno a pinne nere*
SBF	<i>Thunnus maccoyii</i>	Southern bluefin tuna	Thon rouge du Sud	Atún rojo del Sur	Tonno australe

Species Code	Scientific name	English	Francais	Español	Italiano
BET	<i>Thunnus obesus</i>	Bigeye tuna	Thon obèse(=Patudo)	Patudo	Tonno obeso
TUS	<i>Thunnus spp</i>	True tunas nei	Thons Thunnus nca	Atunes verdaderos nep	Tunnidi non identificati*
BFT	<i>Thunnus thynnus</i>	Atlantic bluefin tuna	Thon rouge de l'Atlantique	Atún rojo del Atlántico	Tonno rosso
LOT	<i>Thunnus tonggol</i>	Longtail tuna	Thon mignon	Atún tongol	Tonno Indo-Pacifico
SWO	<i>Xiphias gladius</i>	Swordfish	Espadon	Pez espada	Pesce spada

List of Italian Authors (Annotated Bibliography)

The species codes, are those used by FAO.

Abbate G., SWO,
Acardi E., MSP,
Acone F., BFT, ALB, SMT, SWO,
Adamo P., SMT,
Addis P., BFT, ALB, SMT, SWO, MSP,
Ademollo N., BFT,
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Amat di San Filippo C., BFT,
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D'Anghiera P.M., SWO,
D'Anna G., BFT,
D'Anna M., BFT,
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De Blasi N., BFT,
De Caraffa T., BFT, SWO,
De Carli F., BFT, SWO,
De Cristofaro S., BFT,
De Fanti S., BFT,
De Filippo A., BFT,
Deflorio M., BFT, ALB, SMT, TRO, SWO, MSP,
De Francesco M., BFT,
De Franco C., SWO,
De Giorgi C., BFT,
De Gregory G., BFT,
De Grossi Mazzorin J., BFT,
Deiana A.M., BFT,
Deigrassi V., BFT,
De Innocentiis S., BFT,
De Laude L., ALB, TROP
Del Caro A., TRO,
De Leon F.S., BFT,
Delitala E., BFT,
Delitala P., BFT,
Della Croce N., BFT,
Della Monaca G., BFT,
Dell'Anna L., SWO,
Dell'Aquila M., BFT, ALB, SWO,
Dell'Osso G., BFT, ALB, SMT, TRO, SWO, MSP,
De Lorenzo S., BFT, ALB, SMT, TRO, SWO, MSP,
Del Rosso R., BFT,
De Luca G., BFT,
De Luca M., SWO,
Delussu F., BFT,
Del Vescovo D., BFT,
De Maddalena A., BFT, ALB, SMT, SWO,
De Marchesetti C., BFT,
De Marchi L., BFT,

De Marco G., BFT,
de Martinez La Restia B., BFT,
De Martino D., BFT,
De Marzi P., BFT,
De Metrio G., BFT, ALB, SMT, TRO, SWO, MSP
De Metrio P., SMT,
De Miro A., BFT,
De Murtas I., BFT,
De Napoli G., BFT,
De Negri L., BFT,
De Nicolò M.L., BFT, SMT,
Denitto F., SMT, MSP,
Dentici Buccellato R.M., BFT, SWO,
Dentici G., BFT,
De Paoli R., BFT,
De Pellegrini R., BFT, SMT,
De Pinto V., SWO,
De Roma A., SWO,
De Romanis F., BFT,
De Rose L., BFT,
De Rossi D., BFT,
De Rossi V., BFT,
De Ruggiero P., ALB, SWO,
De Salvo A., BFT,
De Sanctis A., BFT, SWO,
Desantis S., BFT, ALB, SWO,
Desiderio A., BFT,
De Simone A., TRO,
Desogus M., BFT,
Dessy P., BFT,
De Stefano F., BFT,
De Stefano R., BFT,
De Stefano V., BFT,
Dettori M.T., BFT,
De Vico G., SMT,
De Zio V., BFT, ALB, SMT, SWO,
Diacono L., BFT,
Diana A., BFT,
Di Bella G., BFT, SWO, MSP,
Di Bella S., BFT,
Di Bello A., BFT, SWO,
Di Comite M., BFT,
Di Domenico A., BFT, SMT, SWO,
Di Felice M.L., BFT,
Di Franco C.P., BFT,

Di Genova G., BFT,
Di Gioia T., BFT, TRO,
Di Gregorio F., BFT,
Di Lena G., BFT,
Di Marco P., BFT,
Di Marco S., SWO,
Di Marco Pisciotano I., TRO, SWO,
Di Martino G., BFT,
Di Marzo Ferro G., BFT,
Di Meglio M.S., BFT,
Di Muccio A., SWO,
Di Muccio S., SWO,
Di Natale A., BFT, ALB, SMT, TRO, SWO, MSP,
D'Incà C., BFT,
Dini L., BFT,
Di Palma G., SMT,
Di Paolo M., SWO,
Di Pasquale I., BFT,
Di Pietro C., BFT,
Di Salvia B., BFT,
Di Salvo P., BFT,
di Sant'Ignazio A., BFT,
Di Santo M., BFT,
di Savoia-Genova F.L.M.E.M., BFT,
Dispenza T., BFT,
Di Stefano G., BFT, SMT,
Di Summa A., BFT, SMT, SWO,
Di Taranto G., BFT,
Di Trapani A.M., BFT, ALB, SMT,
Diviaco G., BFT, ALB, SMT, SWO,
Di Vita G., BFT,
Di Vittorio A., BFT, SWO,
Doderlein P., BFT, ALB, SMT, SWO, MSP,
Dominici A., SWO,
Donati A., BFT,
Donati Giacomini P., BFT,
Donato A., BFT, ALB, SMT, SWO,
Donato D., BFT,
Donato N., BFT, SWO, MSP,
Doneddu G., BFT,
D'Onghia G., BFT, ALB, SMT, SWO, MSP,
Donia E., BFT,
D'Onofrio G., BFT,
D'Orazio E., BFT, ALB, SMT, SWO,
Dorotea L., BFT,

Dosi A., BFT,
Doz N., BFT,
Drago D., BFT,
Drago G., BFT,
Drago N., BFT, ALB, SMT, SWO,
Dragonetti G., BFT,
Drava G., BFT, SMT,
Droghetti E., TRO,
Dufour L., BFT,
Dugo G., BFT, SWO,
Durando A., BFT,
Durante A., BFT, ALB, SWO,
D'Urso D., BFT, SWO, MSP,
Elianus C., BFT,
Emanuele F., BFT,
Ente Fauna Siciliana, BFT,
Errico L., TRO, SWO,
Esposito M., SWO,
Esposito R., BFT,
Esposito V., BFT, ALB, SMT, SWO, MSP,
Fabiano G., BFT,
Fabiano M., BFT, ALB, SMT, SWO, MSP,
Facciola A., BFT, ALB, SMT, SWO, MSP,
Fai S., BFT, SMT,
Failla A.M., BFT,
Failla G., BFT,
Faimali M., BFT, ALB, SMT, SWO,
Fajello T., BFT,
Falautano M., BFT, SMT, SWO,
Falcioni M., BFT, ALB, SMT,
Falcone L., SWO,
Falcone N., BFT, SWO,
Falla M., BFT,
Fallico R., BFT, SWO,
Falzone G., SWO,
Famigliuolo G., BFT, ALB, SWO,
Fanciulli G., BFT, SMT,
Fanelli E., BFT, SMT, SWO, MSP,
Fanelli R., BFT, SMT, SWO,
Fanizzi A., BFT,
Faranda F.M., SWO,
Faravelli E., BFT,
Farina A., BFT,
Farina E., BFT,
Farina L., BFT,

Farina V., SWO,
Fariselli A.C., BFT,
Fasulo S., SWO,
Fattore E., BFT, SMT, SWO,
Fava G., BFT,
Favara A., BFT,
Fazelli T.F., SWO,
Fazello T., BFT, SWO,
Fazio F., BFT,
Fazio G., BFT,
Fede M.R., SWO,
Federico G., ALB, SMT, SWO,
Felici E., BFT, ALB,
Felicciangeli P., BFT, ALB, SWO,
Ferrante A., BFT,
Ferrante I., BFT,
Ferrante M., BFT, TRO, SWO,
Ferrantelli V., BFT, SMT, TRO,
Ferranti M.P., BFT, SMT,
Ferrara G., BFT, SMT,
Ferrara S., BFT,
Ferrari F., BFT, ALB, SMT, SWO,
Ferrari M., BFT, ALB, SMT, SWO,
Ferrari O., BFT, ALB, SMT,
Ferrari V., TRO,
Ferrero della Marmora A., BFT,
Ferretti C., BFT,
Ferretti F., BFT, SWO,
Ferretti M., BFT, ALB, SMT, SWO,
Ferretto A., BFT,
Ferri S., BFT,
Ferrito V., TRO,
Ferro R., BFT, SMT, SWO,
Ferro S., BFT,
Fierotti Agrigento P., BFT,
Figus V., BFT,
Filanti T., BFT, ALB, SMT, SWO, MSP,
Filiciotto F., SWO,
Filippi S., SWO,
Filocamo R., SWO,
Finocchiaro G., BFT,
Finoia M.G., SMT, SWO, MSP,
Fioravanti M.L., SWO,
Fioravanti T., SWO,
Fiordiponti R., BFT,

Fiore G., BFT, SWO,
Fiore V., BFT,
Fiorentini L., BFT, WO,
Fiorentino F., BFT, ALB, SMT, SWO, MSP,
Fiori A., BFT,
Floris A., BFT,
Focardi C., TRO,
Focardi S.E., BFT, SMT, SWO,
Foderà C., BFT,
Foderà V., BFT, SWO,
Fogato S., BFT,
Follesa M.C., BFT, ALB, SMT, SWO, MSP,
Fontana M., BFT,
Fornaro A., BFT,
Forti S., BFT,
Fortibuoni T., BFT, ALB, SMT, SWO, MSP,
Fortini P., BFT,
Fortunati L., BFT, SWO,
Fossati P., BFT, SMT, MSP,
Fossi M.C., BFT, ALB, SWO, MSP,
Fragni R., BFT,
Franceschi G., BFT, ALB, SMT, TRO, SWO, MSP,
Franchini D., BFT, SWO,
Franco A., SWO,
Franco G., BFT, ALB, SMT, SWO, MSP,
Franco M.A., TRO,
Frassinetti P., SWO,
Frate A., ALB, SWO,
Freggi D., BFT, SWO,
Froglia C., BFT,
Fruciano C., TRO,
Frugis S., BFT, ALB, SMT, SWO, MSP,
Fucilli V., BFT,
Fuggetti C., BFT,
Furesi P., BFT,
Gaballo M., BFT,
Gadaletta M.N., BFT, SMT,
Gaddi D., BFT,
Gaetani della Torre C., BFT,
Gaetani Marchese di Villabianca F.E., BFT,
Gaglio G., SWO,
Galante N., BFT,
Galanti G.A., BFT, SMT, SWO,
Galasso G., BFT,
Galati A., BFT,

Galimberti G., TRO,
Galli L., BFT, ALB, SMT, SWO, MSP,
Galli L.J.G., TRO, SWO,
Galliani A., BFT,
Gallo A., SWO,
Gallo C.D., SWO,
Gallo F., BFT, SWO,
Gallo P., ALB, SMT, TRO, SWO,
Galuardi B., BFT,
Gamberini E., BFT, SWO,
Gambi L., SWO,
Gambino G., BFT,
Gandini G., SWO,
Gandolfi G., BFT, ALB, SMT, SWO, MSP,
Gandolfo L., BFT,
Gangemi M., BFT, ALB, SMT, SWO, MSP,
Gangitano S., BFT,
Garaffo M.A., BFT,
Garau C., BFT,
Garau S., BFT,
Gargallo di Castel Lentini T., BFT,
Gargano G., BFT,
Gargiulo C., BFT, ALB, SMT, SWO, MSP,
Gargiulo M., BFT, ALB, SMT, SWO, MSP,
Gargiulo S., BFT, ALB, SMT, SWO, MSP,
Garibaldi F., BFT, ALB, SMT, SWO, MSP,
Garippa G., BFT, SWO,
Garofalo G., BFT,
Garofalo R., BFT, TRO,
Garofano R., BFT, SWO,
Garozzo A., BFT,
Garro U.M., BFT,
Gasparini G.P., BFT, ALB, SMT, SWO,
Gasparro G., BFT, SWO,
Gastaldi A., BFT, ALB, SMT, SWO,
Gastaldi G., TRO,
Gavagnin L., BFT,
Gazale V., BFT, ALB, SMT, SWO,
Gazzè L., BFT,
Gelati S., BFT,
Gelmetti D., SWO,
Gemelli E., BFT, SWO,
Genovese Se., BFT, SWO,
Genovese Si., BFT,
Gentile A., SWO,

Gentile R., BFT, ALB, SMT, SWO,
Genuardi L., BFT, SWO,
Geraci P., SWO,
Geremia P., BFT,
Gerosa G., ALB, SWO,
Germanà A., BFT,
Gesmundo G., BFT, ALB, SWO,
Gherardi Dragomanni F., BFT,
Gherardi F., BFT,
Gherardi S., BFT,
Ghiglieri F., BFT,
Ghirardelli E., BFT, ALB, SMT, TRO, SWO, MSP,
Giacchetta F., SMT, SWO,
Giaccone V., BFT, TRO,
Giachi L., BFT,
Giacobini E., BFT, SWO,
Giacoma C., BFT, ALB, SMT, TRO, SWO, MSP,
Giacomarra M., BFT, SWO,
Giacominelli-Stuffer R., BFT, ALB, SMT, SWO,
Giacomini E., BFT,
Giancotti R., TRO,
Gianfrotta P.A., BFT,
Giangrosso G., BFT, TRO,
Giannelli E., BFT,
Giannettasio N.C., BFT, SMT, SWO,
Giannetto A., BFT,
Giannetto S., BFT, SMT, SWO,
Gianni F., BFT, SMT, SWO, MSP,
Giannini M.S., BFT, SWO,
Gianoli L., SWO,
Giarratana F., SWO,
Giardina C., BFT, SWO,
Giardina F., SMT,
Giarelli G., BFT,
Giarratana F., SWO,
Giarrizzo G., BFT,
Giberti W., BFT, ALB, SMT,
Gigliarelli L., BFT,
Giglio N., BFT,
Giglioli E.H., BFT, ALB, SMT, SWO, MSP,
Giliberti E., BFT,
Gimma H., BFT, BFT,
Ginex G., BFT,
Gini G., BFT,
Gioacchini G., BFT, SWO,

Gioffré A., SWO,
Giofré S.V., BFT, TRO,
Giolfi M.E.B., BFT,
Gion C., BFT, ALB, SMT,
Giordano P., BFT,
Giordo A.G., BFT,
Giorgini E., SWO,
Giovanardi O., BFT, ALB, SMT, SWO, MSP,
Giovannini A., BFT,
Giovinazzi J., BFT,
Giovio P., BFT, SWO, SMT,
Girasole M., TRO,
Girgenti S., BFT,
Gissara L., BFT,
Giuffré V., BFT,
Giuffrida A., BFT, SWO,
Giuffrida D., BFT,
Giuffrida R., BFT,
Giungato D., BFT, TRO, SWO,
Giunta F., BFT, TRO,
Giusti M., SWO,
Giustino S., BFT, ALB, SMT, SWO, MSP,
Gizzi C., BFT,
Gliozzi E., SWO,
Gonizzi G., BFT,
Gornati R., BFT,
Governali S., BFT,
Granata A., SWO,
Grassi B., BFT,
Grasso A., BFT, TRO, SWO,
Grasso S., BFT,
Grati F., BFT, SMT, SWO, MSP,
Grazioli E., BFT,
Greco C., BFT,
Greco G., BFT,
Greco L., BFT,
Greco N., TRO,
Greco S., BFT, SWO, MSP,
Gridelli E., MSP,
Griffini A., BFT, ALB, SMT, SWO, MSP,
Grilli G., BFT,
Griselini F., BFT,
Gristina M., BFT, ALB, SMT, SWO, MSP,
Groppali R., BFT, ALB, SMT, SWO, MSP,
Guaiana A., BFT,

Guarda F., SWO,
Guarino F., SWO,
Guccione G., BFT, SMT, SWO,
Guccione M., BFT, SMT, SWO,
Guerranti C., BFT, SWO,
Guerriero G., ALB, SWO,
Guggino E., BFT,
Guglielmi P., BFT, ALB, SMT, SWO, MSP,
Guglielmo L., BFT, SMT, SWO, MSP,
Guidetti P., BFT, SMT, MSP,
Guidi A., BFT,
Guidi G., BFT,
Guido A., BFT, ALB, SMT, SWO, MSP,
Guirguis M., BFT,
Gulisano G., BFT,
Gunnella F., BFT,
Gustinelli A., SWO,
Guzzardi L., BFT,
Holm A., BFT, SWO,
Julini M., SWO,
Iachello E., BFT,
Iaconelli M., BFT, ALB, SMT, SWO,
Iannacci F., SWO,
Iannelli M.T., BFT,
Iannizzatto S., BFT,
Iarrera F., BFT,
Idda L., BFT,
Idoplaré C., SWO,
Illuminati S., BFT,
Incerti I., BFT,
Incontro E., BFT, SWO,
Ingrassia G.F., BFT,
Ingrosso G., BFT,
Insacco G., BFT, SMT, SWO, MSP,
Intini A., BFT,
Inzerillo B., BFT,
Ioli V., BFT, ALB, SMT, SWO,
Iozzia S., BFT,
Ippolito (n.n.), BFT,
IREPA, BFT, SMT, SWO,
Issel A., BFT, ALB, SMT, SWO,
Issel R., BFT, ALB, SMT, SWO,
Istituto di Biologia Marina Trapani, BFT,
Istituto Nazionale Luce, BFT,
Italiano A., BFT,

Italiano C., BFT,
Iudicone D., BFT,
Iuffrida G., BFT,
Jirillo E., BFT,
Labanchi L., BFT, ALB, SMT, SWO, MSP,
La Barbera L., BFT,
Labate M., BFT, SWO,
Labate G.M., SWO,
Labella G.F., BFT,
La Bolina J. (Vecchi A.V.), BFT, SWO,
Lacalandra G.M., BFT,
La Cava F., SWO,
Laganà G., BFT, SWO,
Laguardia M.T., ALB,
La Gumina A., BFT,
Lai O.R., BFT, SWO,
La Mantia V., BFT,
Lambardi S., BFT,
La Mesa M., BFT,
Lampredi U., SWO,
Landi M., BFT,
Lanfaloni L., BFT,
Lanfranchi M., BFT,
Lanino P., BFT,
Lanteri L., BFT, ALB, SMT, SWO, MSP,
La Nucara R., SWO,
Lanza B., BFT, ALB, SMT, SWO, MSP,
Lanza di Scalea F., BFT,
Lanzafame I.L., BFT,
La Perna N., BFT,
La Rocca R., BFT,
Laudari V., SWO,
Laudicina C., BFT,
Lauria V., BFT,
Lauriano G., SWO,
Lavarello N., BFT,
La Via G., BFT,
Lazzaro Danzuso G., BFT,
Leanti A., BFT,
Leardi R., BFT,
Leca A., BFT,
Lecaldano P., BFT, ALB, SMT, SWO, MSP,
Lelli E., BFT,
Lembo E., BFT,
Lembo G., BFT, SMT,

Lenti M.C., ALB, SWO,
Lentini F., BFT, ALB, SWO,
Lentini R., BFT,
Leo P., BFT,
Leonardi E., BFT, ALB, SMT, SWO, MSP,
Leonardi G., SMT,
Leonardi S., BFT, ALB, SWO,
Leone A., BFT,
Leone D., BFT,
Leone F., BFT,
Leoni A., SWO,
Leonzio C., MSP,
Lessona M., BFT, ALB, SMT, SWO, MSP,
Levi D., BFT,
Levi-Morenos D., BFT, SMT,
Libetta S., BFT, ALB, SMT, SWO, MSP,
Libralato S., BFT, ALB, SMT, SWO, MSP,
Libranti L., SWO,
Licandro G., BFT,
Licandro P., BFT, ALB, SMT, SWO, MSP,
Licata P., BFT,
Licchelli C., SMT, MSP,
Li Greci F., BFT, ALB, SWO,
Lilliu G., BFT,
Lillo A.O., SMT,
Lino A., SWO,
Lippi Guidi A., BFT,
Livi S., BFT,
Li Vigni B., BFT,
Li Vigni I., BFT,
Li Vigni P., BFT,
Li Vigni V.P., BFT,
Lo Bianco S., BFT, SMT, SWO, MSP,
Locaputo S., BFT, ALB, SWO,
Lo Cascio P., BFT,
Locci I., BFT,
Lo Coco N., BFT,
Locritani M., BFT, ALB, SMT, SWO,
Lo Curzio M., BFT, SWO,
Loddo D., BFT,
Lo Dico G., BFT, TRO,
Lo Duca G., BFT, ALB, SMT, SWO,
Lo Duca R., BFT,
Lo Martire M., BFT,
Lombardi F., BFT, ALB, SWO,

Lombardi Satriani L.M., BFT, SWO,
Lombardo A., SMT, MSP,
Lombardo F., BFT, SWO,
Lombardo G., BFT, SWO,
Lombardo S., BFT,
Longo F., BFT, SMT, SWO, MSP,
Longo M., BFT, ALB, SMT, SWO, MSP,
Longo O., BFT,
Longo P., SWO,
Longo S.B., BFT, TRO,
Longobardi A., BFT,
Lopes S., BFT,
Lo Presti M., SWO,
Losurdo M., BFT, TRO,
Lo Turco V., BFT,
Lovatelli A., BFT, TRO,
Lo Voi A., BFT, TRO,
Loy A., BFT,
Lucchetti A., BFT, ALB, SMT, SWO,
Lucentini L., BFT,
Ludovico A., SMT,
Lussana P., BFT,
Macali A., SMT,
Macaluso D., SWO,
Macri D., SMT,
Macri P., SWO,
Macry Correale D., SWO,
Madau M.E., TRO,
Madonna A., ALB, SWO,
Maes G., BFT,
Maffei M.M., BFT,
Maganzini I., BFT,
Magazzù G., BFT, SMT, SWO,
Maggi P., BFT,
Maggio A., BFT, ALB, SMT, SWO,
Maggio G.M., BFT,
Maggio T., BFT,
Maggioli U., BFT,
Maglietta F., SWO,
Magnani L., BFT, ALB, SMT, SWO,
Magrini A., BFT, ALB, SMT, SWO, MSP,
Maietti A., BFT, ALB, SMT,
Maiorca E., BFT,
Maisano M., BFT, SWO,
Maisano R., BFT,

Malagoli Vecchj M., SWO,
Malandrino G., BFT,
Malara D., BFT, ALB, SWO, MSP,
Maldura C.M., BFT, ALB, SMT,
Malesani M., BFT,
Malfitana D., BFT,
Malvarosa L., BFT, ALB, SMT, TRO, SWO,
Mancini E., SMT, MSP,
Mancusi C., BFT, SWO,
Mancuso T., BFT,
Mandich A., SMT,
Manetti R., BFT,
Manfredi G., BFT, TRO,
Manfredi L.I., BFT,
Manfredi M.T., SWO,
Manfredi P., BFT, ALB, SMT, SWO,
Manfrici M., BFT, SWO,
Manganaro A., BFT, ALB, SMT, SWO, MSP,
Mangano A., BFT, ALB, SMT, SWO, MSP,
Mangano G., BFT,
Mangano R., BFT,
Mangano S., BFT,
Mangialajo L., BFT, ALB, SMT, SWO,
Manilius M., BFT,
Manni E., BFT,
Mannini A., SWO,
Mansa G., BFT,
Mantovani B., BFT,
Manzi E., BFT,
Manzi-Giusi E., BFT,
Manzoni P., BFT, ALB, SMT, TRO, SWO, MSP,
Manzueto L., BFT, ALB, SMT, SWO,
Marabello F., BFT, SWO,
Maradonna F., BFT, SWO,
Marafioti G., SWO,
Maragliano M., BFT, ALB, SWO,
Marano G., BFT, ALB, SMT, SWO,
Marasà G., BFT,
Marcacci A., BFT,
Marchiori A., BFT,
Marcialis E., BFT, ALB, SMT, SWO,
Marciano M., BFT,
Marcone A., BFT,
Marcone N., SWO,
Marcotrigiano G.O., BFT, ALB, SMT, SWO,

Mari F., SWO,
Mariani A., BFT, ALB, SWO,
Mariani P., BFT,
Marin V., BFT, ALB, SMT, SWO,
Mariniello L., SWO,
Marinelli A., BFT, ALB, SWO,
Marineo S., SWO,
Maringelli G., BFT,
Marino F., BFT, SMT, SWO,
Marino G., BFT, SMT,
Mariotti A.M.L., BFT, SMT, SWO, MSP,
Mariotti G., MSP,
Mariotti M., BFT, MSP,
Mariottini G.L., BFT,
Marisaldi L., BFT, SWO,
Marletta G., SMT, MSP,
Marroncini M., BFT,
Marrone F., BFT,
Marrone G., BFT,
Marrone R., TRO,
Marsili L., BFT, SWO, MSP,
Marsili M., BFT,
Martelli P.L., BFT,
Martelli V., BFT,
Martellucci M., BFT, SWO,
Martialis M.V., BFT,
Martini F., BFT, SMT, SWO,
Martini R., BFT,
Martini V., BFT,
Martino D., BFT,
Martino G., BFT, SWO,
Martiradonna V., BFT, ALB, SWO,
Martorana G., BFT,
Marusso V., BFT,
Marzano A., BFT,
Marzani M., BFT,
Marzi E., BFT, ALB, SMT, SWO, MSP,
Marzocca A., BFT, ALB, SWO,
Marzocchi B., BFT,
Mascolo C., TRO,
Maselli E., BFT, ALB, SWO,
Massa F., BFT, ALB, SWO,
Massa G.A., BFT,
Massa P., BFT,
Massari A., SMT,

Massari F., BFT, SMT, SWO,
Massari Fr., BFT, SMT, SWO,
Massari S., BFT,
Massoli-Novelli R., BFT,
Mastino A., BFT,
Mastromarco G., BFT,
Matacena G., BFT, SWO,
Matarrese A., ALB, SWO,
Mattei D., BFT, SWO,
Matthioli A., BFT, SWO,
Mattiucci S., BFT, SWO,
Mattone A., BFT,
Mauceri A.M., BFT, SWO,
Mauceri E., SWO,
Mauceri V., BFT, SWO,
Maurandi A., BFT,
Maurici F., BFT,
Maurizi A., BFT, ALB, SMT, SWO, MSP,
Maurolicus F., SWO,
Mazza E., BFT,
Mazzarella S., BFT,
Mazzarelli G., BFT, ALB, SMT, SWO, MSP,
Mazzola A., BFT,
Mazzola S., BFT, ALB, SMT,
Mazzoldi C., BFT, SMT, SWO, MSP,
Mazzullo L., SWO,
Medana C., TRO,
Megrini A., BFT, ALB, SMT, SWO, MSP,
Mele S., BFT,
Meligrana M., BFT, SWO,
Melis P., BFT,
Melis R., BFT,
Mellini B., SWO,
Menasatti P., SWO,
Menchi A., BFT, ALB, SMT, SWO, MSP,
Menghi F., BFT,
Menghini V., TRO,
Mento A., BFT, ALB, SMT, SWO,
Mento G., BFT, ALB, SMT, SWO,
Meo M., BFT,
Meo S., BFT,
Mercatali I., BFT,
Mercatante L., L., SWO,
Merella P., BFT, SWO,
Merisio P., BFT,

Messana G., BFT,
Messina A., BFT, SWO,
Messina C., BFT,
Messina C.M., BFT,
Messina E., BFT,
Mezzanotte L., ALB, TRO,
Mezzatesta C., SWO,
Micale F., BFT,
Micali I., BFT,
Micali S., BFT,
Micari V., BFT,
Miccichè L., BFT,
Miceli C., BFT,
Miceli M., BFT,
Micera E., BFT,
Michelini E., ALB, TRO,
Mignone W., SWO,
Milana A., BFT, ALB, SWO,
Milanesi F., BFT, SMT, SWO,
Milano I., BFT,
Milella F., SMT,
Milella O., SWO,
Milillo M.A., SWO,
Militello R., BFT,
Milone N., BFT, SMT, SWO, MSP,
Minasi A., SWO,
Minasi G., SWO,
Minervini R., BFT, ALB, SWO,
Minganti V., BFT, SMT,
Mingozzi T., SWO,
Mini A., BFT,
Miniero R., BFT, SMT, SWO,
Minniti F., SWO,
Minto C., BFT,
MIPAF (MIPAAF), BFT,
Mirri A., BFT,
Mirto C., BFT,
Mirto S., BFT,
Mistic C., BFT, ALB, SMT, SWO, MSP,
Mistretta G., BFT,
Misuraca G., BFT,
Mita D.G., TRO, SWO,
Mocciaro A., BFT,
Mocciaro G., BFT,
Modica A., BFT,

Modica L., SWO,
Mojetta A., BFT,
Mojo L., SMT,
Mola P., BFT,
Molinari C., BFT,
Mollica M., BFT,
Mollo F., BFT, SWO,
Molonia G., BFT,
Moltò C., BFT,
Monaco S., BFT, SWO,
Moncada di Monforte G., BFT,
Mondardini Morelli G., BFT, SWO,
Mongitore A., BFT, ALB, SMT, SWO, MSP,
Montaldo L., BFT, ALB, SMT, SWO, MSP,
Montanari A., BFT, SWO,
Montanari M., BFT, SWO,
Montanaro C., ALB, SWO,
Monte A., BFT,
Montersino L., BFT,
Montesanti A., BFT,
Monti N., BFT,
Monti R., BFT,
Montuori F., BFT,
Morabito M., SWO,
Moramarco A.M., BFT,
Morelli S., BFT, SWO,
Moreno M., BFT, ALB, SMT, SWO,
Moretti V., BFT,
Mori A., BFT,
Mori G., BFT, SWO, MSP,
Mormino G., BFT,
Morreale F., BFT,
Morri C., BFT, ALB, SMT, SWO,
Mortara L., BFT, SWO,
Moruzzi L., BFT, ALB, SMT, SWO, MSP,
Moscatelli A., BFT, SWO,
Moscato A., BFT,
Moscato G.B., BFT,
Moschella P., BFT, SMT, SWO, MSP,
Mosino F., BFT, ALB, SMT, SWO,
Mostarda E., BFT, SMT,
Motta G., BFT,
Mottese A.F., SWO,
Mozzillo A., SWO,
Muci S., BFT,

Mugetti D., SWO,
Munà F., BFT,
Mura F., BFT,
Murenu M., BFT,
Murgia G., BFT,
Muscolino D., SWO,
Musolino S., BFT, SWO,
Mussolini B., BFT,
Naccari C., BFT,
Naccari F.I., BFT, ALB, SMT, SWO,
Nannarelli S., SWO,
Napoli F., BFT,
Nardo G.D., BFT, ALB, SMT, SWO, MSP,
Nascetti G., BFT, ALB, SMT, SWO,
Nascia C., BFT,
Nastasi T., BFT,
Nataletti G., BFT,
Natalotto A., BFT,
Natili N., BFT,
Navarra E., BFT, ALB, SMT, SWO, MSP,
Navarrini U., BFT, SWO,
Navone A., BFT, SMT,
Nef A., BFT,
Nencioli M., BFT,
Neri G., BFT, SWO, MSP,
Nevigato T., BFT,
Nicoloso C., SWO,
Ninni A.P., BFT, ALB, SMT,
Ninni E., BFT, ALB, SMT, TRO, SWO, MSP,
Nobile V., BFT,
Nobili A., BFT,
Nocentini M., TRO,
Normanno G., ALB, SMT, TRO, SWO,
Notarbartolo di Sciara G., BFT, ALB, SMT, SWO, MSP,
Notari F., BFT, SMT, MSP,
Nucci M.E., BFT,
Occhipinti N., BFT,
Oddo R., BFT,
Oliva G., SWO,
Oliva M., BFT,
Oliva S., BFT,
Oliveri A., BFT,
Ollà A., BFT,
Ollano G., SWO,
Olmo E., BFT,

Olschki A., BFT,
Omiccioli H., BFT,
Omodei D., BFT,
Orban E., BFT, ALB, SMT, TRO, SWO,
Orecchia P., BFT,
Orlandini L., BFT,
Orlando G., SWO,
Orsi Relini L., BFT, ALB, SMT, TRO, SWO, MSP,
Orti G., BFT,
Osmi M., BFT, ALB, SMT, SWO, MSP,
Ottolenghi F., BFT, ALB, SMT, TRO,
Ottolenghi S., BFT,
Paccagnella V., BFT,
Pace B., SWO,
Pacicco A., BFT,
Pacichelli G.B., SWO,
Pacifico M., BFT,
Pacifico S., BFT,
Padoa E., BFT, SMT, MSP,
Pagano G., BFT,
Paggi L., BFT,
Pagliara T., BFT, ALB, SMT, TRO,
Pagliuzzi P., BFT,
Pagnoni G., BFT,
Pais A., BFT,
Pais E., BFT,
Pais-Serra F., BFT,
Pajetta R., BFT,
Paladino V., SWO,
Palandri G., BFT, ALB, SMT, SWO, MSP,
Palermo D., SWO,
Palladino S., BFT, ALB, SMT, SWO,
Palma G., TRO,
Palmas F., BFT,
Palmieri G., BFT, ALB, SWO,
Palmieri L., BFT,
Palmisano M.E., BFT,
Palmisano V., BFT,
Palomba A., BFT,
Palombi A., BFT, ALB, SMT, SWO,
Palumbo M., SWO,
Palumbo S.G., BFT, SWO,
Panara F., BFT,
Pandolfini F., BFT,
Pane L., BFT, ALB, SMT, SWO,

Panebianco A., BFT, ALB, SMT, SWO,
Panigada S., SWO,
Pannacciulli F., BFT, SMT, SWO, MSP,
Panseri S., BFT,
Panti C., BFT, ALB, SWO,
Panzalis P.A., BFT, SMT,
Paoletti M., BFT, SWO,
Paoli C., BFT, ALB, SMT, SWO,
Paolillo G., SMT, SWO,
Paolillo V., BFT,
Papa Giardina I., BFT,
Papalia Jerace S., SWO,
Paparella P., BFT, ALB, SWO,
Papetti C., TRO,
Papetti P., SWO,
Pappalardo A.M., TRO, SWO,
Pappalardo G., BFT,
Pappalardo L., BFT, SWO,
Pappalepore M., BFT,
Paradiso M.L., BFT, SMT,
Parenzan P., BFT,
Parisi G., BFT,
Parisi R., BFT, SWO,
Parisi V., SWO,
Parodi (n.n.), BFT,
Parona C., BFT, ALB, SMT, SWO, MSP,
Parravicini L., BFT,
Parrino V., BFT,
Parthenii N., BFT,
Pasanisi G., BFT,
Pasini P., BFT, SWO,
Pasquale G., BFT, SWO,
Pasqualini M., BFT,
Pasquini P., BFT, ALB, SMT, SWO, MSP,
Pasquini V., BFT,
Passantino L., BFT,
Passi S., BFT,
Pastore M., BFT,
Pastorelli A.A., BFT, SWO,
Pastorelli A.M., BFT, ALB, SMT, SWO,
Pastorino P. SWO,
Patané G., BFT,
Patania L., BFT,
Patiri G., BFT,
Patti B., BFT,

Paturzo G., SWO,
Pavesi P., BFT, SMT, TRO,
Pavone A., BFT,
Pecorari V., BFT,
Pecoraro C., TRO,
Pedà C., BFT, ALB, SMT, SWO, MSP,
Pederzoli A., BFT, ALB, SMT, TRO, SWO, MSP,
Pedone S., BFT,
Pedrotti M.G., BFT,
Pelegatti P., BFT,
Pellegrino C., BFT, SWO,
Pellerano L., BFT,
Pelusi P., BFT, ALB, SMT, TRO, SWO, MSP,
Penco A., BFT,
Pennacchi Y., BFT,
Pepe C., BFT,
Pepe T., TRO,
Peraino M., BFT,
Perfetti Y., SWO,
Pergola M., BFT,
Peri L., BFT,
Pernice G., BFT, SWO,
Perosino S., BFT, ALB, SMT, TRO, SWO, MSP,
Perra G., BFT, SWO,
Perricone R., BFT,
Perrotta G., BFT, ALB, SMT, SWO, MSP
Persia E., BFT,
Perugia A., BFT, ALB, SMT, SWO, MSP,
Perugini V., BFT,
Persichetti M.F., SWO,
Perzia P., BFT, ALB, SMT, SWO, MSP,
Pesavento A., BFT,
Pesavento Mattioli S., BFT,
Pesci P., BFT,
Pesola V., BFT, ALB, SWO,
Petetta A., SWO,
Petrillo M., BFT, ALB, SMT, SWO,
Petronio Trajano A., BFT, SWO,
Petrontino A., BFT,
Petrosino G., BFT, ALB, SMT, SWO,
Petrucci A., BFT, SWO,
Petrucci G., BFT, SMT,
Petti A., BFT, ALB, SMT, SWO,
Pezzati E., BFT,
Pezzini E., BFT,

Piaggia G., BFT,
Piattoni F., TRO,
Piazza A., SWO,
Piazza G., BFT,
Piazzese S., BFT,
Picazio G., SWO,
Piccinetti C., BFT, ALB, SMT, TRO, SWO, MSP,
Piccinetti Manfrin G., BFT, ALB, SMT,
Piccinetti R., BFT,
Piccitto G., SWO,
Picone E., BFT,
Pierantonio N., SWO,
Pieroni P., BFT, SWO,
Piersanti A., BFT, SWO,
Pignalosa C., BFT, SWO,
Pignalosa P., BFT, SWO,
Pinca S., BFT, ALB, SMT, SWO, MSP,
Pino G., SWO,
Pino D'Astore P., SWO,
Pinto A., SWO,
Pintus E., BFT,
Piovano S., BFT, ALB, TRO, SWO, MSP,
Piperno M., BFT,
Pipia A.P., BFT,
Pipitone C., BFT, SMT,
Pira S., BFT,
Piras P., BFT, SMT, SWO,
Piras P.L., SWO,
Pirati D., BFT, TRO,
Pirazzoli P., BFT,
Piroddi C., BFT, ALB, SMT, SWO, MSP,
Pirolo F., BFT,
Piroux P., BFT, ALB, SMT, SWO,
Pirri R., BFT,
Pirrone F., BFT,
Pirrone N., BFT, SWO,
Pisanelli B., BFT,
Pisano Baudo S., BFT,
Pischedda M., BFT,
Pisciotta G., SWO,
Pitrè G., BFT, ALB, SMT, SWO,
Pitto C., SWO,
Pizzicori P., SMT,
Placenti V., BFT, ALB, SMT, SWO, MSP,
Plinius C.S., BFT, SMT, SWO,

Podani J., BFT, SWO,
Podestà M., BFT, ALB, SMT, SWO,
Police G., BFT, ALB, SMT, SWO, MSP,
Polizzi C., BFT, SWO,
Polizzi G., BFT,
Pomata F., BFT,
Pomata L., BFT,
Ponchia R., MSP,
Porcacchi T., BFT, SWO,
Porcheddu A., BFT, ALB, SMT, SWO,
Porrello S., BFT, SMT,
Porretta A., BFT,
Potalone G., BFT,
Potorì A.G., BFT,
Potoschi A. Jr., BFT, SWO, MSP,
Potoschi A., BFT, ALB, SMT, SWO, MSP,
Povero P., BFT, ALB, SMT, SWO, MSP,
Pozzi L., SWO,
Pratesi F., BFT, SWO,
Praticò V., ALB, SMT, SWO,
Prearo M., SWO,
Premi C.B., BFT, TRO,
Prestifilippo S., SWO,
Prestigiaco F., BFT,
Prestigiaco V., BFT,
Prestinicola L., BFT,
Prestipino Giarritta S., BFT, ALB, SMT, SWO,
Pretsch D., BFT,
Princi Lupini C., SWO,
Principe I., SWO,
Priore G., BFT, ALB, SWO,
Priori A., BFT,
Pronzati V., BFT,
Pronzato R., BFT, ALB, SMT, SWO,
Pugnatore G.F., BFT,
Pulcini D., BFT,
Puletti M.E., BFT,
Pulina P., BFT,
Puntillo T., BFT, SWO,
Punzon A., SWO,
Purpura G., BFT,
Qualecultura, BFT,
Quaranta A., ALB, SWO,
Quarta R., BFT,
Quartero G.P., BFT,

Quatriglio V., BFT,
Quero M.E., BFT, ALB, SMT, SWO, MSP,
Quesada E., BFT,
Quilici F., BFT, ALB, SMT, TRO, SWO, MSP,
Quilici S., BFT,
Rabbito D., ALB, SWO,
Racheli G., BFT,
Raffa F., SWO,
Raffaele (n.n.), BFT,
Raffaele F., BFT, ALB, SMT, SWO, MSP,
Raffiotta R., BFT,
Raggi G.A., BFT,
Rahola (n.n.), BFT,
Raicevich S., BFT, ALB, SMT, SWO, MSP,
Rainero E., TRO,
Rallo A., BFT,
Rallo G., BFT,
Rambaldi E., BFT, ALB, SMT, TRO, SWO,
Rampacci M., BFT, ALB, SWO,
Rampazzo F., BFT, ALB, SMT,
Randazzo M., BFT,
Randazzo S., BFT,
Rando R., BFT,
Rando S., SWO,
Rao I., BFT, SWO,
Rapisarda C., BFT, SWO,
Ravara Montebelli C., BFT,
Ravazza N., BFT, ALB, SMT, SWO,
Ravenna B., BFT,
Ravenna D., BFT,
Ravenna G., BFT,
Razeto D.U., BFT,
Reale A., BFT,
Reddano Coppedè G., BFT,
Regoli F., BFT,
Reina P., BFT, SWO,
Reina S., SWO,
Relini G., BFT, ALB, SMT, SWO, MSP,
Relini M., BFT, ALB, SMT, SWO, MSP,
Renda G., BFT,
Renna E., BFT,
Renzi M., BFT, SMT, SWO,
Renzoni A., BFT,
Repetto N., BFT, ALB, SWO,
Repetto S., BFT,

Requirez S., BFT,
Revelli G.M.P., BFT,
Ribbene R., BFT,
Ricci R., BFT,
Ricciardi F., BFT, ALB, SMT, TRO, SWO, MSP,
Riccioni G., BFT,
Riccobono F., BFT, SMT, SWO, MSP,
Richetti A., BFT,
Ricotti C., BFT,
Ridi Chiesa D., BFT,
Riggio S., BFT,
Righi T., SWO,
Riginella E., SMT,
Risterucci A.M., BFT,
Riva M., BFT,
Rivas G., SMT,
Rizzi E., BFT,
Rizzi N., BFT, ALB, SMT, SWO,
Rizzo F.T., BFT,
Roberti M., BFT, SMT,
Rocco M., SWO,
Roda A., ALB, TROP
Roggero E., BFT, ALB,
Rollandi L., BFT, ALB, SMT, SWO,
Romanelli M., BFT, ALB, SMT,
Romeo G., BFT,
Romeo M.U., TRO,
Romeo R., BFT,
Romeo T., BFT, ALB, SMT, SWO, MSP,
Romito R., BFT,
Roncarati A., BFT, SMT, SWO,
Rondinini C., BFT, ALB, SMT, SWO, MSP,
Rositani L., BFT, ALB, SMT, SWO,
Rossi F., BFT,
Rossi G., BFT, SWO, MSP,
Rossi P.A., BFT,
Rosso S., BFT, SWO,
Rotta G., TRO,
Rovellini A., SWO,
Rovina D., BFT,
Rubino B., BFT,
Rubino Corleo G., BFT,
Rubino S., BFT,
Ruju S., BFT,
Rumolo P., BFT,

Russiello M., BFT, ALB, SWO,
Russo A., BFT,
Russo D., BFT,
Russo E., BFT,
Russo F., SMT,
Russo G., BFT, ALB, SMT, SWO, MSP,
Russo R., BFT, SMT, TRO, SWO,
Russo Petronilla M.A., BFT,
Ruvituso A., BFT,
Sabatella R.F., BFT, SWO,
Sabatini A., BFT,
Sabatini F., BFT,
Sabbatini D., SWO,
Sacco F., BFT,
Sagratella E., BFT, SWO,
Sagrati A., BFT, SWO,
Saja G., BFT, SWO,
Sala A., BFT, ALB., SWO,
Salamac P., BFT,
Salazar M., SWO,
Salemi M., SWO,
Salerno F., BFT,
Salerno G., BFT, ALB, SWO,
Salgari E., BFT,
Salmieri A., BFT,
Salogni C., SWO,
Salpietro L., BFT, ALB, SMT, SWO,
Salvadori T., BFT, SMT, SWO,
Salvatori L., SMT,
Salviani I., BFT, SWO,
Salvini A.M., SWO,
Salvioli G., BFT,
Salvo A., BFT,
Sampieri Mangano V., BFT,
San Martino de Spucches F., BFT,
Sandionigi A., TRO,
Sanfilippo M., BFT,
Sanguinetti G., BFT,
Sanna L., ALB, SWO,
Sanna M., BFT,
Sanna P., BFT,
Sanseverino W., SWO,
Santamaria C.A., BFT,
Santamaria N., BFT, ALB, SMT, TRO, SWO,
Santangelo G., BFT, ALB, SMT, SWO,

Santarelli M., BFT, ALB, SMT, SWO,
Santi-Mazzini G., BFT, ALB, SMT, SWO,
Santo I., BFT, ALB, SWO,
Santojanni A., BFT,
Santoleri L., BFT,
Santoro G., SWO,
Santucci R., SWO,
Santulli A., BFT,
Sanzo L., BFT, ALB, SMT, SWO,
Sapia R., BFT,
Saponari L., BFT, SMT, SWO, MSP,
Sarà G., BFT,
Sarà M., BFT, ALB, SMT, SWO, MSP,
Sarà R., BFT, ALB, SMT, SWO, MSP,
Sardaro R., BFT,
Sardo R., BFT,
Sarica M., BFT,
Saroglia M., BFT,
Sartor P., BFT, ALB, SMT, SWO,
Sartori M., BFT,
Sassi A., BFT, ALB, SMT, SWO,
Savarino R., BFT,
Savi Lopez M., BFT,
Savinelli T., BFT,
Savojardo C., BFT,
Savona A., BFT,
Savona A.V., BFT, SWO,
Savona B., BFT,
Sbragaglia V., BFT, SMT, SWO, SMP,
Scaccini A., BFT, ALB,
Scadelletti M., BFT,
Scalisi M., SWO,
Scappi B., BFT,
Scarabello M.P., SMT,
Scarcella G., BFT,
Scardi M., BFT,
Scariano N., BFT,
Scarpato D., BFT, TRO,
Scarponi G., BFT,
Scerra S., BFT,
Scevoli E., BFT,
Schiapparelli C., BFT,
Schimmenti G., BFT, ALB, SMT, SWO, MSP,
Schisosi G., BFT, SMT, SWO, MSP,
Sciacca S., BFT, SWO,

Scianna F., BFT,
Scibaldi G., BFT,
Scilipoti D., BFT,
Scimè S., BFT,
Sciortino A.M., BFT,
Sciscioli V., BFT, ALB, SWO,
Sclafani V., BFT,
Scolavino Q., BFT, SMT, SWO,
Scopelliti G.M., BFT,
Scordia C., BFT, ALB, SMT, TRO, SWO,
Scortecchi G., BFT, ALB, SMT, SWO, MSP,
Scotti G., BFT, SWO,
Scotti L., BFT, ALB, SMT, SWO, MSP,
Scotti P.G., BFT, ALB,
Scotto R., BFT,
Scudelletti M., BFT,
Scuderi A., BFT, SWO,
Scuderi M.C., BFT, ALB, SMT, SWO,
Sebastianelli L., BFT, ALB, SWO,
Secci E., BFT, SMT, SWO,
Sechi V., BFT,
Sella M., BFT, ALB, SMT, SWO,
Selvaggio L., BFT,
Sequi R., BFT,
Serena F., BFT, ALB, SMT, SWO, MSP,
Serenò A., SWO,
Serio M., BFT,
Serpe F.P., BFT, TRO,
Serpe L., ALB, SMT, SWO,
Serra A., TRO,
Serra G., BFT, SWO, MSP,
Serra M., BFT,
Serra S., BFT,
Serraini A., BFT,
Serraino A., BFT, SMT, SWO,
Serraino C., BFT,
Serraino M., BFT,
Sesani V., SWO,
Sestini D., BFT,
Sestito M., SWO,
Severini P., TRO,
Severino L., BFT, SMT, TRO, SWO,
Sevouille G., BFT,
Sferlazzo G., TRO,
Sgobba A., ALB, SWO,

Sicbaldi G., BFT, SMT, SWO,
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Sicher E., BFT,
Siddi M.R., SWO,
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Sieni E., BFT, ALB, SMT, SWO, MSP,
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Silvestri C., BFT, TRO,
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Spanò A., BFT,
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Spanò N., BFT,
Spanò S., BFT, ALB, SMT, SWO, MSP,

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Spataro S., BFT,
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Spedicato D., BFT, ALB, SMT, TRO, SWO,
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Sposito A., BFT,
Sposito C., BFT,
Spoto S., BFT,
Stacchini P., BFT, SWO,
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Stagira A.M., BFT,
Stanzani A.L., BFT, ALB, SMT, SWO, MSP,
Starrabba R., BFT, SWO,
Stecconi T., BFT, SWO,
Stefanelli P., SWO,
Stefani B., BFT,
Stefani G., BFT,
Stella S., TRO,
Stolba V.F., BFT,
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Storelli A., BFT, SWO,
Storelli M.M., BFT, ALB, SMT, TRO, SWO,
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Strafforello G., BFT, SWO,
Stramenga A., BFT, SWO,
Straniero M.L., BFT, SWO,
Struppa S., BFT,
Sturiale P., BFT, SMT, ALB, SWO,
Sultana S., BFT,
Susan G., BFT,
Susca V., BFT, SWO,
Sylos Labini G., BFT,
Taccari M., BFT,
Tagliacozzo A., BFT,
Tagliavia G., SWO,
Tamagnini L., BFT,
Taramelli A., BFT,
Tarantino S., BFT, ALB, SWO,

Tardugno R., BFT, SWO, MSP,
Targioni Tozzetti A., BFT, ALB, SMT, SWO,
Tarulli E., BFT, ALB, SMT, SWO,
Tassi F., BFT, SWO,
Tavoloni T., BFT, SWO,
Tedeschi P., BFT, ALB, SMT,
Teofili C., BFT, ALB, SMT, SWO, MSP,
Terio E., BFT, ALB, SMT, SWO,
Termotto R., BFT,
Terni D.C., BFT, ALB, SWO,
Terova G., BFT,
Terranova F., BFT,
Teti V., BFT, SWO,
Tibaldi E., BFT, ALB, SMT, SWO, MSP,
Tibullo D., BFT, SMT,
Tigano G., BFT,
Tinti F., BFT, ALB, SMT, TRO, SWO, MSP,
Tiralongo F., BFT, SMT, MSP,
Tirloni E., BFT, TRO, SWO,
Titone G., SMT,
Tocaceli M., BFT, ALB, SMT, SWO, MSP,
Todesco S., BFT,
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Tognoletto P., BFT,
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Tomasin L., BFT,
Tomasinelli F., BFT, ALB, SMT, SWO, MSP,
Tomasino R., BFT,
Tomassetti P., BFT,
Tondo A., SMT,
Toninelli A., SWO,
Torchia G., BFT, ALB, SMT, SWO, MSP,
Torchio M., BFT, ALB, SMT, SWO, MSP,
Tore G., BFT,
Torre S., BFT,
Torrente M., BFT,
Tortonese E., BFT, ALB, SMT, SWO, MSP,
Tosi F., BFT, ALB, SMT,
Toso F., BFT,
Tozzini V., BFT,
Traina A., BFT,
Traina G., BFT,
Trainito E., BFT, SMT, SWO,
Traldi G., SWO,
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Tramati C., BFT,
Tramontano T., BFT, ALB, SMT, SWO,
Tranquillo I., BFT,
Trasselli C., BFT,
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Tribulato K., BFT,
Tricamo N., BFT,
Tricarico E., BFT,
Tricarico L., BFT,
Tringali M.L., BFT, ALB, SMT, SWO, MSP,
Trocchia S., ALB, SWO,
Trois E.F., BFT, ALB, SMT, SWO, MSP,
Trombetta D., BFT,
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Troplini B., BFT, ALB, SWO,
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Ulpianus G.D.A., BFT,
Ungaro N., BFT, ALB, SMT, SWO,
UNIMAR, BFT, ALB, SMT, SWO, MSP,
Unluata U., SMT,
Vacca-Concas S., BFT,
Vaccarella R., BFT, ALB, SWO,
Vacchi M., BFT, ALB, SMT, SWO, MSP,
Valastro C., BFT, SWO,
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Valdes E., BFT,
Valentini L., BFT,
Valenza M.A., BFT,
Valettini B., BFT, TRO, SWO,
Valettini V., BFT, TRO,
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Vallini C., SWO,
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Valsecchi A., BFT, TRO, SWO,
Vani D., BFT,
Vanucci S., BFT, SWO,
Vanzo A., BFT,
Varcasia A., BFT,
Vargiu G., BFT, SMT, SWO,
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Vassallo P., BFT, ALB, SMT, SWO,
Vassallo S., BFT,
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Verde I., BFT,
Vergara F., BFT,
Vessel T., BFT,
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Vezzulli L., BFT, ALB, SMT, SWO,
Vial G., BFT,
Vicchio T.M., SWO,
Vicini G., BFT, ALB, SMT, SWO, MSP,
Vignolo E., SMT,
Vigo L., BFT,
Villari C., ALB,
Vinceti M., BFT, SWO,
Vinci S., BFT,
Vinciguerra D., BFT, ALB, SWO,
Vinelli M., BFT,
Violi G., BFT,
Virgili C., ALB, SWO,
Virgilio A., BFT,
Virgilio M., BFT,
Visconti G., BFT, ALB, SMT, SWO, MSP,
Vitale G., BFT,
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Vitalini V., BFT,
Vitrioli D., SWO,
Vittori S., BFT,
Vivenzio G., BFT,
Vivona A., BFT,

Vivona P., BFT, SMT, SWO,
Vizzini S., BFT,
Vlora A., ALB,
Vochieri A., BFT,
Voliani A., BFT, SWO,
Volpe G., BFT,
Volpi Lisjak B., BFT, ALB, SMT,
Volta G.S., BFT, ALB,
Voltan G., BFT,
Volterra V., BFT,
Wengersin B., BFT,
Würtz M., BFT, ALB, SMT, SWO,
Zaccagnini M., BFT,
Zacchino V., BFT,
Zagami V., SMT,
Zambernardi A., BFT, ALB, SMT, TRO, SWO, MSP,
Zanasi G., SWO,
Zanca R., BFT,
Zane L., BFT,
Zanetti A., SWO,
Zanfi A., BFT,
Zanghì S., SWO,
Zanini A., BFT,
Zanlari A., BFT,
Zarbà A.S., BFT,
Zarrilli A., BFT,
Zava B., BFT, ALB, SMT, SWO, MSP,
Zaza S., BFT, SWO,
Zema M.S., BFT, SWO,
Ziino G., SWO,
Zinna E., BFT,
Zinnanti M., BFT,
Zinzula L., BFT,
Zirino R.G., ALB, SMT,
Zizola F., BFT,
Zizzo N., ALB, SWO,
Zubani D., BFT, ALB, SWO,
Zucca D., SWO,
Zuccagni-Orlandini A., BFT,
Zucchi M.I., BFT,
Zuffa M., BFT,
Zumbo A., BFT, SWO,
Zupa R., BFT, TRO,
Various Authors, BFT,
Anonymous, BFT, ALB, SMT, TRO, SWO.

List of Italian Authors (Audio Visual and Electronic Resources)

The species codes, are those used by FAO.

Accardi S., BFT,
Aglieco D., BFT,
Agnello S., BFT,
Alliata di Villafranca F., BFT, SWO,
Annone C., BFT,
Antani D., SWO,
Antonino G., BFT,
Appio V., BFT,
Assumma G., SWO,
Avaro P., BFT,
Bagnato F., SWO,
Barbara M., BFT,
Berlusconi C., BFT,
Bernabei G., BFT,
Bianco N., BFT,
Bolzetta F., BFT,
Bovina L., BFT,
Bruni E., BFT,
Bueti R., BFT,
Cacciola C., SWO,
Cagianesi G., BFT, SWO,
Calandrino F., BFT.
Calandrino G., BFT,
Caltagirone G., BFT,
Campo M., BFT,
Caracciolo D., SWO,
Chiartosini M., BFT,
Chiesa C.A., BFT.
Civita E., SWO,
Conti D., BFT,
Costanzo L., SWO,

Curcio M., BFT,
De Seta V., BFT, SWO,
De Domenico R., SWO,
Di Giovanni A., BFT,
Di Napoli Q., BFT,
Donato N., SWO,
Faraci E., BFT, SWO,
Fiducioso F., BFT,
Fillorano S., SWO,
Foti G., SWO,
Gagianesi G., BFT,
Gerbino A., SWO,
Gherardi G., BFT, SWO,
Giannini I., BFT,
Giustolisi S., BFT,
Grillini I., BFT,
Grillini S., BFT,
Guarino L., BFT,
Guggino E., BFT,
Impollonia G., SWO,
Indaco A., SWO,
ISMAR, BFT,
Istituto Nazionale Luce, BFT, SWO,
Istituto Luce Cinecittà, BFT,
Lapunzina F., BFT,
Leopardi M., SWO,
Lo Monaco R., BFT, SWO,
Lo Re N., BFT, SWO,
Maggio T., BFT,
Mancuso F., SWO,
Mange L., SWO,
Manni C., BFT,
Marini M., SWO,
Marzaduri M., BFT,
Massa M., BFT,
Mastrantoni P., BFT,
Mazzarella M., BFT,
Meli E., BFT,
Mento M., BFT,
Mento N., BFT,
Merlino B., BFT,
Messina A., BFT,
Messina E., SWO,
Milillo P., BFT,
Minaudo G., BFT,

Mineo V., BFT,
Mirabella S., SWO,
Modugno D., SWO,
Moncada P., BFT,
Mora C., BFT,
Morganti R., BFT,
Muzi C., BFT,
Naccarato C., SWO,
Nestori S., BFT,
Nuscis L., BFT,
Nuzzo Confalonieri S., BFT,
Oliva E., BFT,
Pagano R., BFT,
Pampaloni B., BFT,
Panetta L., SWO,
Passante G., SWO,
Patricola G., BFT,
Pedone G., SWO,
Petix S., SWO,
Pintacuda P., BFT,
Pipitone P., BFT,
Pirla A., BFT,
Pistarà A., BFT,
Pisu P., BFT,
Provenzano P., BFT,
Puzzo A., BFT,
Quilici F., BFT, SWO,
Repetto S., BFT,
Rinicella M., BFT,
Sala V., BFT,
Salerno G., BFT,
Saltalamacchia P., BFT,
Salvi A., BFT,
Sanfilippo G., BFT,
Sardegna Film Commission, BFT,
Scacciaferro R., BFT,
Silvestro A., BFT,
Soldati M., SWO,
Torrente M., BFT, SWO,
Tricamo M., BFT,
Tusa S., BFT,
Tuttoilmondo A., BFT,
Vaccarella P., BFT,
Varcasia A., BFT,
Varchetta A., BFT,

Vento Y., SWO,
Ventre A., BFT,
Vinciguerra S., BFT,
Zizola F., BFT,
Zoppeddu G., BFT,
Anonymous, BFT, SWO.