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Mexican Progress Report to the 11th ISC

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INTRODUCTION

Mexico has been participating since the first meeting of the ISC and in 2004 Mexico joined this organization formally at its 4TH annual reunion in Honolulu, Hawaii, U.S.A. During those years Mexico has been reporting fishery statistics to ISC. Before joining the ISC and until the present, Mexican fishery statistics have been provided regionally to the Inter American Tropical Tuna Commission (IATTC) and also shared with other international fisheries management bodies to which Mexico is a fully cooperating Party.

This national progress report describes now the recent trends of the Mexican tuna fishery for the yellowfin, bluefin, albacore tunas and also for the swordfish. New information on the billfish sport fishery is also provided.

FISHERIES AND CATCHES

In Mexico, the National Institute of Aquaculture and Fisheries (Instituto Nacional de Acuacultura y Pesca, INAPESCA, Formerly INP), was created more that forty years ago to systematically conduct scientific work and fisheries research with the marine resources of Mexico. The INAPESCA is responsible for provide the scientific bases for the management advice to the fisheries authorities in México and poses along its coastal states, in both, Pacific and Gulf O Mexico, 14 regional fisheries centers (CRIPs) which are the centers and laboratories in charge with the recognition, data collecting, sampling and monitoring of the main fisheries and aquaculture activities on a regional scale. Since 1992, the INAPESCA incorporated to this effort, the work of the National Tuna-Dolphin Program (Programa Nacional de Aprovechamiento del Atún y Protección del Delfín, PNAAPD), which closely monitored and study the tuna fishery of its purse seine and longline national fleets. The data here reported is based on the combined efforts from these different and unified groups.

In this region the Mexican fleet concentrates mainly in the yellowfin (*Thunnus albacares*), which is the prime target tuna species. The Mexican tuna purse seine fishery is one of the largest in the (ETP) since the mid 1980's, although recently it has been displaced to second considering all catches of tunas. This tropical tuna represents for its large volumes the main component in the total catches. Other tuna species which are also caught, but contrastingly in lower proportions are: the skipjack, (*Katsuwonus pelamis*), the black skipjack (*Euthynnus lineatus*) and more recently, in northerly zones of the Mexican EEZ, the bluefin (*Thunnus orientalis*) which is targeted and the albacore (*Thunnus alalunga*).

Fishing operations of the Mexican purse seine fishery comprise a vast area in the EPO, (figure 1).



Figure 1. Fishing grounds of the Mexican purse seine fishery (a dolphin sets, b) free swimming schools, c) log sets). 2010



The recorded levels of tuna captures in the ETP zone by the Mexican fleet from 1980 till 2010 are shown in figure 2.

Figure 2. Mexican tuna catch of yellowfin tuna (YFT), skipjack (SKJ) and bluefin tuna (BFT), 1980-2010.

The total tuna landings of Mexico in 2003 were 183199 mt. Value which represents the highest historic record for this fishery and more than a (10 %) increase from the attained level of the year before, in which a total catch of 164048 mt. was reported. Comparatively, the lowest recorded capture in this fishery during recent years was in the 2006 season, with only 102472 mt., value which is closer to the 1980's development phase. During the last year catches of yellowfin tuna continue to increase slowly. The fleet has compensated partially its catches with skipjack.

These high consistent reported catches are the result of the combination of the fishing experience and performance of the fleet as well as the effect of high recruitments in previous years and are not related with any significant increase in the fishing effort or a greater expansion of its carrying capacity during the corresponding years. Lower catches in 2006 and 2007 are probably related to a decrease in population levels of yellowfin tuna (lower recruitment) and excessive catches of juvenile tunas in coastal areas in the EPO.

The purse seine fleet is subdivided in purse seine vessels, most of them with observers on board all tuna fishing trips and a small quantity of pole and line vessels (Table I). The whole fleet is quite stable in number, composition and carrying capacity since the 1990's.

Yellowfin tuna always has been the primary catch, and skipjack is always second in volume. Other tuna species have high values because the fleet has compensated lower yellowfin catches with other tunas, basically black skipjack but a slight increase is related also with bluefin tuna catches. (Table 2). This information reflects the great importance of the yellowfin tuna in the Mexican catches and the secondary level of all the other tuna species in the total catches obtained by this fleet in the ETP.

YEAR	No.	No. of m	No. of	No. of
	of	PSeiners	PSeiners	active
	active	> 400 m3	<u>< 400 m3</u>	Bait
	tuna			Boats
	boats			
2007	55	42	11	2
2008	49	39	8	2
2009	46	38	6	2
2010	42	36	3	3

Table 1. Total landings, size, composition and carrying capacity of the active Mexican tunafleet 2007 to 2010

Table 2. Total tuna landings and the proportions of the different tuna species in the Mexican fishery from 2005-2009

YEAR	TOTAL LANDINGS All tuna species (mt.)	Yellowfin (mt	Skipjack (MT.)	Others Species (mt.)
2005	152364	113279	32985	6100
2006	102472	68644	18655	15173
2007	108351	65834	21970	20547
2008	122568	85517	21931	15111
2009	123750	99157	9310	15243
2010	120679	101523	6090	13066

1) Other species are: albacore (<u>T. alalaunga</u>), bluefin (<u>T. orientalis</u>), bigeye (<u>T. obesus</u>) and the black skipjack (<u>Euthynnus lineatus</u>). *2010 data is preliminary.

Bluefin tuna

All the fishing zones for bluefin tuna used by the Mexican fleet are located in the Northwest side of the Baja California peninsula, inside the ZEE of Mexico (figure 3), closer to the ranching locations. The fishing season usually runs five months, from May to September, which is the time in which the transpacific migration of this stock is closer to the Mexican Pacific coast, due to oceanographic factors. In 2006 the fishing season started earlier, in March. Sea conditions together with the presence of the specie permitted the development of this new fishery predominantly related to ranching activities in the Mexican Northwestern coastal area. Temperature is an important factor defining areas were BFT is to be found.



Figure 3. Fishing Zones for bluefin tuna in the Northwest region of Mexico, offshore the Baja California peninsula, a) 1992-2006 and b) during 2010

The time series of bluefin tuna captured by the Mexican tuna purse seine boats from 1995-2010 is presented respectively in Table 3 to see the period related to ranching activities that started in 1996 and fully developed since 1999. This catch represents only a very small proportion of the total tuna caught by the Mexican fleet with an average catch of 3612 mt for the entire period.

This represents a small proportion of the Mexican tuna catch, although very valuable. The 3,700 mt. reported in 1996 was the first historic highest record for this fishery and the first year bluefin tuna has been targeted by the fleet. Again, in 2004 and 2006 new records were established for this tuna specie in Mexico. In 2007 the catch returned closer to the average. In 2009 due to the international economic crisis many companies did not operate and catches were below average. In 2010 catches increased and in 2011 catches are expected to be low. The catch in the Eastern Pacific nevertheless is below the historic highs observed in the 1960's and 1970's. The information provided makes clear that fishing for bluefin has not being a foremost significant activity in Mexico for many years. It also shows that even in some fishing seasons there were no captures on this stock, or those were only of low levels. Therefore, it is clear that fishing bluefin in Mexico was considered only incidental. However, more recently, in the years (1996-to present time) there has been a greater interest devoted to this species, mainly for the ranching activities developed in the Northwest region of Mexico.

Table 3. Bluefin tuna catch of Mexico, 1995-2010*. (*preliminary)

1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
10	3700	367	1	2369	3025	863	1708	3211	8880	4542	9806	4147	4407	3019	7745

The catches of bluefin for ranching are performed only with commercial purse seiners (normally searching for YFT). Some times, the holding nets with the bluefin tunas are transferred to tugboats, which then, make slowly the trip to the enclosures and fattening nets located in the Baja California peninsula.

There is also a US sport fishery that operates in Mexican EEZ that is reported by the US.

Effort

There were 16, 13, 6 and 17 vessels involved in bluefin tuna catch from 2007 to 2010 respectively.

Ranching Activities

This new tuna fishery component or modality has been the trigger of higher proportional catches of bluefin. In 2005, the catch came down to 4542 from a high pick in 2004, increasing again in 2006 with very low catches this year, again making evident that oceanographic conditions and the eastern distribution of the specie are limiting factors for the Mexican bluefin fishery. Most of the catch is utilized for fattening. In 2005, 2006 an estimated 80% of the catch was transported to the ranching companies and the other 20% went to the Mexican market. In 2007, 2008 and 2009 almost all BFT was directed to ranching. This activity represents an economic incentive for the Mexican tuna fishery and has a regional economic impact especially in northwestern Mexico. The ranching activities are limited in several ways. They depend on the fishing vessels already in the fishery, by the amount of area they have devoted for aquaculture purposes, by law defining in

many cases the amount the companies can growth each year, oceanographic conditions and EEZ's.



The size composition of the PBF catch in 2010 is presented in figure 4. It is a small sample from an onboard observer sampling program focused on YFT.

Management

All major fisheries are required by law to have developed a Management Plan that pinpoints major characteristics of the fishery, problematic, possible solutions, research needed, data that has to be submitted to the government by the participants in the fishery and management objectives and procedures. In the case of the Bluefin tuna fishery, INAPESCA finished a document that was recently reviewed withj the Mexican fishery ministry (CONAPESCA) in order to adjust and approve this plan to be operational. This was based on INAPESCA own analysis and the ISC plenary advice.

Albacore (T. alalunga)

The related Mexican information for this fishery has been reported constantly to ISC and IATTC. Catches are limited to a small area in northern Mexico (figure 5). Table 4 shows the total catch reported for Mexico from 1980 to 2009.



Figure 5. Albacore fishing ground for the Mexican purse seine fishery.

YEAR	MEXICAN CATCH
1980	31
1981	8
1982	0
1983	0
1984	113
1985	49
1986	3
1987	7
1988	15
1989	2
1990	2
1991	2
1992	10
1993	11
1994	6
1995	5
1996	21
1997	53
1998	8

 Table 4. Mexican albacore tuna catches from 1980-2010. *2010 data is preliminary

1999	57
2000	103
2001	23
2002	28
2003	28
2004	104
2005	0
2006	109
2007	40
2008	10
2009	17
2010*	25

Besides this, the Sport Fishing Association of California also cooperated gently with information of their annual catches of albacore by their commercial passenger fishing fleet operating under permits in Mexican north Pacific zones. This represents a valuable piece of new information that was provided in previous report (figure 6). No new information is provided in this report but the US provides the catch data since the vessels depart and return to a US port.



Figure 6. Albacore catch (number of fish) by the US sport fishery in Mexico

Bycatch

Billfishes and shark bycatch from the purse seine fishery is estimated and presented in table 5.

 Table 5. Estimated billfish bycatch in the purse seine fishery in number of organisms for 2010.

Specie	2010
sharks	9250
Blue Marlin	42
Black Marlin	84
Stripped Marlin	88
Swordfish	16
Sail fish	380

Swordfish (Xiphius gladius)

The development of the swordfish fishery in Mexico has two different historical periods. One started in 1964, using long liners, the second began in 1986, with some gillnets. The fleet nowadays operates seasonally, principally in the Autumn and Winter along the western coast of the Baja California peninsula, between the 21° 30' N and 32° 20' N. They fish from September-October to February. Captures decline alter that period and is very scarce in the hot summer months of July and August. The greater fishing effort is concentrated in two areas in the western coast of the Baja California peninsula, between the latitudes 21° 30'N and 32° 20'N. One is south of Punta Eugenia to the 23°N and the other fishing zone, from the 30° parallel, to the northern limit of the Mexican ZEE (Sosa et. al. 1992; Castro, et. al. 1995). The operational zone is restricted to an area outside the 50 miles protected region for the sport fisheries operations from the entire Mexican pacific coast line (Figure 7).

The commercial swordfish fishery it has been regulated in Mexican waters by an administrative regulation (NOM-017-PESC-1994) which mandates that logbooks should be submitted by the fleet to the fishery agency in Mexico, (CONAPESCA). Besides this, it has been closely monitored from 1998 till 2000 by special trained observers of the Programa Nacional de Aprovechamiento del Atún y Protección a los Delfines, (Mexican Tuna-Dolphin Program-PNAAPD). They worked during those years aboard the long liners and the gillnet ships, which operated outside the 50 miles protected zone decreed for the sport fisheries operations. Since 2007 an observer program was directed to the long line shark fisheries and the observers aboard has been taken information on incidental captures of sword fishes during those operations.



Figure 7. Sport fisheries restricted to an area outside the 50 miles in the entire Mexican pacific coast line.

In 1992 the swordfish fleet was integrated by 27 boats. From those, only 24 were active fishing boats. In 1995, the fleet reduced its size to 22 fishing ships, number which did not changed for many years. More recently, in 2006, 29 boats fished in the Mexican Pacific catching different species during the year, including in some months the swordfish. The growth in numbers of the ships is explained because some of them have also permits for different species, (multiple fisheries), pending on the availability of the fish species by seasons. Therefore, not all cached swordfish. In 2007 and 2008 17 boats were only actively reported in the fishery, 13 were long liners and 4 with gillnets. Its size ranged from 15.9 to 24 mts, In 2009 the number of boats were 28 and in 2010 there was a slightly increase of 34, from which 33 used long line and one still used the gill net. The majority of these boats have fishing permits for multiple species such as sharks, pelagic fishes and sword fish. . Their operative distributions by gear type are presented respectively in figures 8 and 9.



Figure 8 Geographic distribution of the Mexican long liners fishing trips during 2006-2007. (Notes: red is 2006 and blue is 2007)



Figure 9. Geographic distribution of the longline fishing trips during 2010. (red is 2009, blue is 2010)

Swordfish Catches (Category I Data):

The main ports used by this fishery are: Ensenada in the northern part of the Baja California peninsula, Other alternative ports used for the landings are: San Carlos in the southern region of the peninsula and Mazatlán, across the Gulf of California, on the mainland Mexico, although the captures in these southern regions are less significant. Captures of the sword fish in the recreational fishery is not to major at the present time with a reported average of 41 fish per year.

Figure 10. Sword fish historic catches in Mexican waters from 1979-2010. (Data FAO, CONAPESCA-Subdelegación de Pesca en Ensenada BC). **Table 6. Historic records of the Mexican swordfish fishery from 1979-2010. (Data sources FAO and CONAPESCA**

YEAR	Metric Tones
1979	7
1980	380
1981	1575
1982	1365
1983	120
1984	47
1985	18
1986	422
1987	550
1988	613
1989	690

1990	2650		
1991	861		
1992	1160		
1993	812		
1994	581		
1995	437		
1996	439		
1997	2365		
1998	3603		
1999	1136		
2000	2216		
2001	780		
2002	465		
2003	671		
2004	270.1		
2005	234.5		
2006	347.2		
2007	383		
2008	200		
2009	250		
2010	150***		
Notes:			
*** Preliminary			

The swordfish historic fishery of Mexico it clearly observed in the above figure (figure 10 and table 6) in which some important picks are observed. The first occurred in 1981 with 1,575t. Later the captures declined till 1985, when a new positive tendency is observed till the year 1990, reaching then a total capture of 2,650t. An other decrease is observed In 1995 with only 428t followed by a high increase in 1998. This year still represents the highest historic record of the Mexican fishery with a total capture of 3,603t. In clear contrast, 2009 has the lower historic captures, with only 250t. In 2010 the preliminary data shows a slightly better yield than the previous year with 150t till the month of October. The high variability observed in the Mexican captures are related with several factors. One is the variability in the fishing effort, pending this on the availability of the swordfish in the local the markets. An even more, with the continuous transformation of the fleet from gill net to long liners.

During the period 1998-2000, it was found that the biggest average rate of captures was obtained using 700 hooks by long liner. This number of hooks yielded 24 fishes/1000 hooks.

Comparatively, the use of 800-900 hooks yielded 17 or 12 fish/1,000 hooks. In 2006, they were 544 sets. The capture of sword fish reported for that year was of 347 t with CPUE of 727 kg/1000 hooks and an associated effort of 477, 000 hooks. In 2007, the captures were very similar with 383 t and a CPUE of 549kg/1000 hooks. The effort that year was calculated higher with 697,700 hooks. For the years 2009 and 2010 the registered captures are 150t with a CPUE of 118kg for 1000 hooks. This in 1, 487 sets and a total effort of 1, 246, 240 hooks (figure 11). But tis data still is preliminary and the records from the highest fishing period from October to December are under analysis..

The INAPESCA reviewed the long line fishery data from the observers from the PNAAPD and found that among the captures in this fishery, that sharks and from them, the blue shark was the most important with (61%) of the reported captures. The swordfish represented only (19%) and the complementary (20%) was formed by other 10 other fish species, encompassing: dorado, yellow fin tuna and other sharks species. In other studies, Sosa et al., 1992, sharks were the dominant species caught, followed by the swordfish which has a comparative greater percentage in the long line fishery.

Figure 11. Estimated number of hooks of the Baja California longline fishery, 2009-2010

CPUE (Gillnet fishery)

Sosa et al., op.cit., report also preliminary information of the composition in the swordfish gillnet fishery from México. They mentioned that the catches were composed by 88% of sharks species, several other commercial species, like the sun fish and tunas and the swordfish was only the 12% of the total. As reported before, only four boats are operating with gillnets in the Mexican sword fishery. The nets range from 1500-2000 m in length.

Catch Composition

Sosa et al., 1992 reports preliminary information of the gillnet fishery from México. He mentions that the catches are composed by 88% of sharks species, several other commercial species, like the sun fish and tunas and being the swordfish only the 12%. of the total. The INAPESCA reviewed the long line fishery data from the observers from the PNAAPD and found that among the shark, the blue shark was the (61%) of the reported captures. The swordfish represented (19%) and the complementary (20%) was formed by other 10 fish species, encompassing the dolphin fish, yellow fin tuna and other sharks species. In both studies, the sharks were the dominant group of species caught, followed by the swordfish which has a comparative greater percentage in the long line fishery

The data from 2006 and 2007 confirms the previous information showing that the sharks are still the main species captured by the long liners and the gill net fleet in Baja California. From those the blue shark with 63% still is again the more abundant, followed by the sword fish with 23 % of the captures and 3% of mako sharks. Other pelagic fish species combined yielded the other 11%. (figure 12)

Figure 12. Catch composition of large pelagics in the Mexican sword fish fishery (Data from 2006, 2007)

Data from 2009 and 2010 (figure 13) shows again that sharks still are the recurrent species caught by the Mexican long line fleet. Among the sharks, the blue still is the more important with 78% in 2009 and 82% in 2010. The swordfish represented similarly only the 14% in 2009 and 13% in 2010 respectively. Other species captured in lower proportions are the mako shark with 3%, and the fox shark with 1%. The marlin represents 2%, several species of fish, like tunas represented all together only a 6%.

Figure 13. Catch composition of large pelagics in the Mexican sword fish fishery (Data for 2009 and 2010)

Billfishes in Mexican Waters:

From the wide-ranging members of the *Istiophoridae* billfish family, six species are recorded commonly in the Mexican Pacific waters. Given their relative abundances, the most important is by large the striped marlin (*Tetrapturus audax*). The other three marlin species present, although in very small numbers are: the blue (*Makaira nigricans*), the black (*M. indica*) and the short bill spearfish (*T. angustirostris*). Besides these, the sail fish (*Istiophorus platypterus*), and the swordfish (Xiphias gladius) are the other two billfishes species also distribuited. From tose billfishes species found in México, only the swordfish is currently subject to commercial catches and all the others are reserved totally for the recreational fisheries.

The sport fisheries activities along the Mexican Pacific coast are developed and concentrated in a specific designated fishing zone, which extends parallel to the Mexican Pacific coast, up to 50 nautical miles (nm) from the shore line. This was officially established in 1983, as a reserve zone only for the recreational fishing, (Diario Oficial, 1983). Later in 1987, for their relative importance, two other specific zones for billfishes were also established in México as an exclusion zone for longliners operations. One is around the coast and tip of the state of Baja California Sur and the other, in the south, off the Gulf of Tehuantepec in Southern México.

In this extensive sport fishing area along the Mexican Pacific coast the marlin catches are concentrated mainly in three places. These sites are located on both sides of the entrance of the Gulf of California. The two more important, in terms of the numbers of fish caught by year are: Cabo San Lucas and Buenavista, in the state of Baja California Sur (B.C.S), which is located at the tip of the Baja California peninsula. Undoubtedly, they constitute the prime sport fishing locations for billfishes on the whole Pacific coast of Mexico, accounting for 88.54% of the total billfishes caught every year. The corresponding 11.46% is from the other location, placed across the Gulf of California, at the mainland Mexico, in the port of Mazatlán, Sinaloa.

FISHERIES MONITORING, DATA COLLECTING AND REPORTING

The National Institute of Aquaculture and Fisheries of Mexico (INAPESCA), formerly INP (Instituto Nacional de la Pesca, INP-Mexico) conducts systematic scientific work and has developed fisheries, aquaculture and technological research fore more than 40 years. Since 1992, it has also incorporated to this effort, the monitoring and research work of their National Tuna-Dolphin program, PNAAPD (Programa Nacional para el Aprovechamiento del Atún y Protección de los Delfínes), to monitor and study the tuna fishery of their large commercial fleet.

Purse seine and live bait ship fisheries:

Catch and effort data and the purse seine tuna fishery performance had been closely monitored with a 100% coverage by scientific observers aboard all the large commercial Mexican tuna ships. From this monitoring program, 50% are observers from the Mexican National Program (PNAAPD) and the remaining trips are covered by the IATTC international observers program. Pertinent data from the two observers programs has been available to the IATTC, ISC and other regional meetings. There is also a national administrative regulation (Norma Oficial Mexicana-EM-002-PESC-1999) which regulates in Mexico the tuna fisheries operations and Mexico complies with management measures that are taken in IATTC organization. Besides this, logbooks are submitted by the fleet to the Fishery agency in Mexico, CONAPESCA (Comisión Nacional de Pesca), Ministry of Agriculture, Live stock and Fisheries). Landings are obtained from each vessel with (100% coverage). Fish are measured for fork length by PNAAPD observers on board. The IATTC Secretariat in close coordination with the INP-PNAAD continues to compile the data and related effort, catch and statistics from all the Mexican tuna fleet operations and the PNAAPD covers those vessels which are not monitored by the IATTC.

Swordfish fishery

The swordfish fishery was also monitored since 1998 till 2000 by the observers of PNAAPD, aboard the long liners and the gillnet ships which operated outside the 50 miles defined zone. Also logbooks are submitted by the fleet to the Fishery agency in Mexico CONAPESCA This fishery is also regulated by a special Mexican administrative regulation (NOM-017-PESC-1994). Again, since 2007 the long liners fleet directed to the Shark fishery in the Baja California region, has observers onboard to monitor those captures and to record the incidental captures of other large pelagic fish species.

Research

Since 1998 the INAPESCA and the PNAAPD have also organized an annual scientific meeting in Mexico to review the research activities developed by Mexican and other scientists. These studies are related with tunas, large pelagic and other oceanic species. Available information of those seven scientific meetings could be obtained directly from the authors listed in the journal "El Vigia" of the PNAAPD (see <u>www.fidemar.org</u>) that lists the abstracts every year, or from the INP-PNAAPD sources. The most recent meeting took place in November 2010 in Mazatlan, Sinaloa,, Mexico.