

Involving Anglers As Key Stakeholders in a Shark Conservation Programme

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PROJECT PARTNERS & COLLABORATORS

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Section 1 **SUMMARY**

Recreational fishing is the only fishery targeted at sharks in Argentina. Understanding this activity is therefore crucial for quantifying to what extent it impacts on the local populations. Traditional top-down management has been ineffective. Instead, we applied a holistic approach involving cooperative shark-tagging and education programs. We have trained 96 avid shark anglers during tagging workshops;12 tagging nodes have been established in key shark aggregation areas and 334 individuals from five different shark species have been tagged. In addition to this, we undertook communication and educational events in angling clubs, academic institutions, government agencies and local media. These initiatives

encouraged a change from catch-and-retain practices to catch-tag-and-release practices of every shark caught in the main shark fishing tournaments of Argentina. Our work is an example of the value of citizen science projects as tools for shark conservation. An active involvement of anglers in holistic programs such as the outlined in this work could be the most cost-effective method for shark conservation in countries like Argentina, where resources for monitoring and enforcement are very limited.

INTRODUCTION

In Argentina, recreational fishing has been researched (e.g. Lucifora 2003; Caille & Cedrola 2007) and managed (Vigliano *et al.* 2000; Llompert 2011) only in recent years. Argentina is among the top ten shark catching nations in terms of commercial fishing landings (FAO 2014). However, little is known about recreational fishing for sharks (National Plan of Action 2009: fao.org/Fi/DOCUMENT/IPOAS/national/argentina/NPOA_sharks.pdf; Cedrola *et al.* 2011). This activity occurs throughout the Argentine coast (except in Tierra del Fuego, southern Patagonia) where the most important target species are broadnose sevengill (*Notorynchus cepedianus*), sand-tiger (*Carcharias taurus*) and tope (*Galeorhinus galeus*) sharks, bronze whalers (*Carcharhinus brachyurus*), narrownose smooth-hound (*Mustelus schmitti*), and spiny dogfish (*Squalus acanthias*). These species are mostly targeted in their breeding grounds during the spring–summer breeding aggregations (Chiaramonte & Pettovello 2000; Cedrola *et al.* 2009a; Lucifora *et al.* 2004). Although marine protected areas (MPAs) have been established in many of these breeding grounds, recreational fishing in these areas is poorly regulated. Particularly, Bahía San Blas (BSB) (Figure 1) is the most important breeding ground in the south-western Atlantic but it has one of the highest recreational fishing captures in the southern hemisphere (Llompert *et al.* 2011). The catches of sand-tiger sharks are comparable to the catches of artisanal fishers of Uruguay and the industrial fishery of southern Brazil (Lucifora 2003). Similarly, the recreational catch of bronze whalers and top sharks would be higher than the commercial catch of commercial fisheries operating in adjacent areas (Chiaramonte 1998; Lucifora 2003). Hence, the impact of recreational fishing in this bay on these three shark populations is unsustainable (Lucifora 2003). There are also several recreational fishing tournaments targeted at different shark species including other MPAs (Bahía Blanca, Bahía Falsa and Bahía Verde MPA and Península San Julián MPA, Cedrola *et al.* 2011) and recreational fishing for sharks at the MPA of Ria Deseado (RD) (southern Patagonia) that had had significant negative impacts on the populations of narrownose smooth-hound and broadnose sevengill sharks (Cedrola 2011).

Currently, recreational fishing is the only harvesting activity targeted sharks in Argentina and it has the potential to be a major threat for the conservation in most of the local coastal shark populations. Although top down regulations are in place (e.g. establishment of MPAs, compulsory release of caught sharks), large individuals continue to be harvested by recreational fishers as legislation is poorly enforced.

In this project, we made a holistic approach for shark conservation involving anglers in a cooperative shark-tagging and education program in Argentina's main shark recreational fishing grounds as an alternative to the traditional top down.

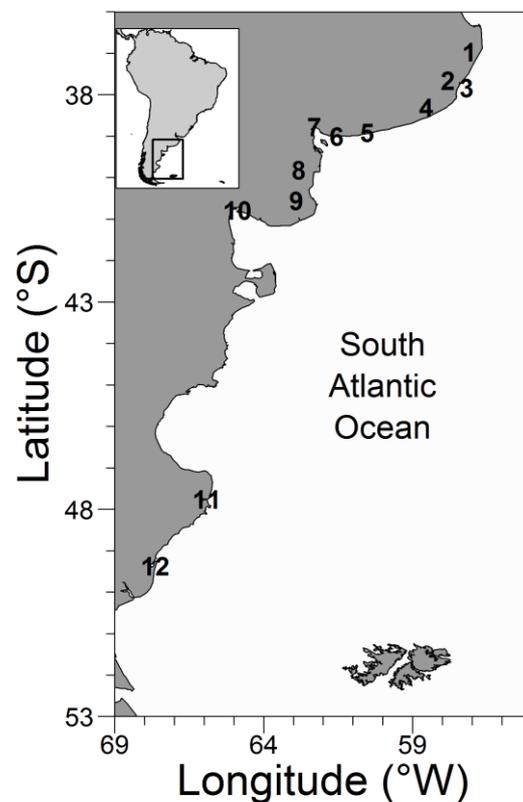


Figure 1. Map showing the location of the twelve tagging nodes. 1: Faro Querandí; 2: Mar Chiquita; 3: Santa Clara and Mar de Cobo; 4: Mar del Plata; 5: Marisol; 6: Pehuencó; 7: Bahía Blanca, Bahía Falsa and Bahía Verde MPA; 8: Bahía San Blas MPA; 9: Viedma; 10: San Antonio Este; 11: Ría Deseado MPA and 12: Península San Julián MPA.

PROJECT MEMBERS

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Section 2**AIM AND OBJECTIVES****Aim**

Establish a nucleus of anglers for shark conservation (as project ambassadors) in each reserve,

Objectives

- 1) Communicate the threatened nature of sharks in the four marine coast reserves of Argentina reaching out to fishing communities, including their families;
- 2) Encourage replacement of old predatory practices in local tournaments with new sustainable ones;
- 3) Increase involvement of anglers in the tagging duty;
- 4) Create a 2.0 platform that will help to coordinate conservation actions with all the stakeholders of the project and will allow anglers to join the program and receive updates.

It is important to mention that due to the data collected during the first campaign from several shark angler communities along the Argentine coast, outside the four MPAs established at the beginning of this project, the original aim was extended far away from their limits.

METHODOLOGY

The study sites (Figure 1) includes the main recreational shark fishing areas in Argentina with a focus on angling clubs, academic institutions, government agencies and local media.

Objective 1: Communicate the threatened nature of sharks in four reserves areas reaching out to fishing communities, including their families.

Communication and education plan

The objective of the communication plan was to provide accurate information of the global and local status of sharks, inform local communities about the project and encourage participation and engagement particularly in the reporting of recaptured sharks. For this, four different strategies were adopted: media interviews, community meetings, display of graphic material, and Facebook page. The graphic material (e.g. posters, stickers, brochures; Figure 2) was used for dissemination purposes during meetings and campaigns in the main coastal areas of Buenos Aires, Rio Negro and Santa Cruz (Figure 3). During the campaigns, several media interviews were done to inform a broader spectrum about the project and the conservation status of local sharks. Also, several oral presentations were organised at primary and secondary schools, non-governmental organisations (NGOs), angling clubs and academic institutions to give stakeholders and the whole community an opportunity to discuss shark conservation issues.



Figure 2. Infography of the project “Conservar Tiburones en Argentina”. A. Logo. B. Sticker with Facebook page. C. Poster. D. Brochure.



Figure 3. Project diffusion campaign. A. Poster in local shop at Puerto Deseado. B. Handing posters at the Tourist Office of San Antonio Este. C. Oral presentation at the primary school of San Antonio Este. D. Distributing brochures and stickers at the primary school of Bahía San Blas MPA. E. Oral presentation at the local NGO “Fundación Conociendo Nuestra Casa” of Puerto Deseado. F. Oral presentation at the Angler Club “Puerto Galván” of Bahía Blanca.

Objective 2: Encourage replacement of old predatory practices in local tournaments with new sustainable ones.

Shark fishing tournaments

The current project took over the work initiated by the Museo Argentino de Ciencias Naturales and Fundación Patagonia Natural (Cedrola *et al.* 2009) with the organisers of the main shark fishing tournaments: the MPAs of Argentina at the Bahía Blanca, Falsa y Verde (BBFV), Bahía y Península de San Julián (BPSJ), and RD (Figure 1). A key objective was to promote/reinforce a commitment to release, rather than retain, caught sharks and to include the tagging of these individuals (Figure 4).



Figure 4. Tagging and measuring a tope shark in the “Safari del Tiburón” shark tournament at Bahía Blanca MPA during October 2013.

Objective 3: Increase the involvement of anglers in the tagging duty.

Tagging workshops

A pilot tagging program (2008–2010) involving experienced shark anglers suggested that this could be a cost-effective tagging platform. Hence, a broad-scale study was initiated in 2013 using the CLP funds. Specific workshops were given to recreational fishers interested in participating in the tagging program. During group (Figure 5 and 6) and individual meetings (Figure 7), biological and conservational shark’s aspects, breeding areas importance, shark conservation project implications, and specific tagging procedure and required information collection were explained. Each angler received a tagging kit (plastic dart tags, tag applicator and tagging manual) and a project cap to reinforce the sense of belonging as key players in the conservation of sharks in Argentina.



Figure 5. Tagging workshop at the Angler Club “Puerto Galván” of Bahía Blanca.



Figure 6. Tagging workshop at Faro Querandí.



Figure 7. Tagging interview in Bahía San Blas MPA.

Shark tagging manual

A shark tagging manual (Cuevas *et al.* 2013) was designed to guide the fishers involved in the tagging project (Figure 8). The manual was divided in three sections: 1) project background, objectives and an explanation of the tagging steps, including handling recommendations for maximising the survival of sharks; 2) a species identification guide for 16 shark species that occur in Argentinean coast with information on their biology, distribution and conservation status; 3) twenty data sheet forms for the recording of the tag and recapture information. The manual is available online to be downloaded in a pdf version at: http://www.researchgate.net/publication/258565077_Manual_de_marcado_de_tiburones_de_Argentina.



Figure 8. Shark tagging manual cover and back cover.

Mark and Recapture

Participants were asked to record the species, tag number, total length, sex, date, time, location, type of fishing (shore/boat), bait type, and name and address of the person tagging the shark (Figure 9). A comments section was also included to allow for the inclusion of additional information. To strengthen the sense of belonging and encourage the reporting of recaptures, a symbolic reward (project t-shirt) was given to fishers reporting recaptures (Figure 10).

		Enviar planilla completa a: Gustavo Chiaramonte: gchiarame@retina.ar Juan Martín Cuevas: juanmartin_cuevas@yahoo.com.br	
Especie: Azul <input type="checkbox"/> Bacota <input type="checkbox"/> Cazón / Vitaminico <input type="checkbox"/> Escalandrun <input type="checkbox"/> Espinillo / Espineto <input type="checkbox"/> Gatopardo <input type="checkbox"/> Mako <input type="checkbox"/> Martillo <input type="checkbox"/> Punta Blanca Oceánico <input type="checkbox"/> Zorro <input type="checkbox"/>	Fecha: <input type="text"/>	Sexo: Macho <input type="checkbox"/> Hembra <input type="checkbox"/>	
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Tipo de carnada: <input type="text"/>		Nombres y Apellidos: <input type="text"/>	
Comentarios: <input type="text"/>			

Figure 9. Tagging sheets.

Data processing and analysis

For each node, a tagging index was calculated as the total number of tagged individuals divided by the total number of tags delivered. The maturity stage of tagged individuals was inferred from size-at-maturity information reported in the literature (Chavez 2014; Chiaramonte 2015; Lucifora 2003).



Figure 10. A. Tag used in the project. B. Tag applicator. C. Tagging procedure. D. Measuring procedure. E. Tagging in Mar del Plata by local angler. F. Reward t-shirt and anglers identification cap.

Objective 4: Create a 2.0 platform.

Finally, a Facebook Page account was created to facilitate the participation of anglers in the tag and recapture program, so to promote the exchange of information and tagging experience among them (Figure 11).



Figure 11. Project Facebook Page.

OUTPUTS AND RESULTS

Objective 1: Communicate the threatened nature of sharks in four reserves areas reaching out to fishing communities, including their families.

Communication and education

Twenty-five communication and education events (five public meetings, four lectures at schools and NGOs, six radio interviews, and 10 TV interviews) were done during the spring of 2013 (Table 1).

A total of 3800 graphic material were delivered during the implementation of this first objective (Table 2).

Project diffusion material delivered	Number
Stickers	500
Brochures	3000
Posters	300
Hats	50
T- shirts	55
Shark Tagging Manual	110

Table 2. Number of total project diffusion material delivered

N°	Activity	Site	Date
1	Oral presentation	Fishery Economy class, Universidad Nacional del Sur, Bahía Blanca, Buenos Aires	26/09/2013
2	Local journalist blog interview	Blog: "Periodismo en redacción". Ing. White, Buenos Aires	26/09/2013
3	Local radio interview	Radio programme: "Noticias en compañía". Radio Palihue FM 102.3 , Bahía Blanca, Buenos Aires	26/09/2013
4	Local university radio interview	Radio programme: "Comprometerse". Radio Universidad Nacional del Sur AM 1240, Bahía Blanca, Buenos Aires	27/09/2013
5	Web tv interview	Tv programme: sustentartv. Bahía Blanca, Buenos Aires	27/09/2013
6	Local journalist interview	Interviewer Guillermo Fidalgo. Perón Square, Bahía Blanca, Buenos Aires	27/09/2013
7	Local tv interview	TV programme: "Proyecto Pesca (La Peña Nautica)". Club de Pesca y Nautica Puerto Galván, Bahía Blanca, Buenos Aires	27/09/2013
8	Oral presentation	Cultural and Historic Center. Universidad Nacional del Sur, Bahía Blanca, Buenos Aires	28/09/2013
9	Oral presentation	Islas Malvinas Secondary School, San Blas, Buenos Aires	01/10/2013
10	Local radio interview	Radio Continental FM 96.5, San Blas, Buenos Aires	01/10/2013
11	Oral presentation	Islas Malvinas Primary School, San Blas, Buenos Aires	01/10/2013
12	Local radio interview	Radio programme: "@despertar". Radio Nacional Viedma AM 1150 o FM 93.05, Viedma, Río Negro	02/10/2013
N°	Activity	Site	Date
13	Local tv interview	TV programme: "Panorama de Noticias". Channel 3. Comarca Viedma-Carmen de Patagones, Buenos Aires	02/10/2013
14	Oral presentation	304 Alberto J. Centani Primary School, San Antonio Este Port, Río Negro	04/10/2013
15	Local tv interview	Tv programme: "Latitud 47°". Deseado Video Cable, Puerto Deseado, Santa Cruz	05/10/2013
16	Local radio interview	Radio programme: "Amanecer Deseado Noticias". LRI200 Radio Municipal Puerto Deseado 740 khz, Puerto Deseado, Santa Cruz	05/10/2013
17	Oral presentation	City Council of Carmen de Patagones, Buenos Aires	24/11/2013
18	Local tv interview	TV programme: "Panorama de Noticias". Channel 3. Comarca Viedma-Carmen de Patagones, Buenos Aires	24/11/2013
19	Local tv interview	TV local government channel of Puerto San Julián, Santa Cruz	06/12/2013
20	Local radio interview	Radio: FM Municipal, Puerto San Julián, Santa Cruz	06/12/2013
21	Oral presentation	Local mayor Nelson Gleadell, Local City Hall of Puerto San Julián, Santa Cruz	06/12/2013
22	Local radio interview	FM Generación Radio, Puerto San Julián, Santa Cruz	07/12/2013
23	Radio interview	Radio programme: "Muelle, playa y pesca" of Puerto Madryn (Chubut Province), Playa La Mina, Santa Cruz	08/12/2013
24	Oral presentation	City Hall Auditorium of Puerto San Julián, Santa Cruz	09/12/2013
25	Oral presentation	Local NGO "Fundación Conociendo Nuestra Casa", Puerto Deseado, Santa Cruz	10/12/2013

Table 1. Continue of the main activities during diffusion campaign in the Spring of 2013.

Objective 2: Encourage replacement of old predatory practices in local tournaments with new sustainable ones.

Shark fishing tournaments

The tag and release of every shark caught has become mandatory in the BBFV and BPSJ MPAs shark fishing tournaments since 2013 and 2014, respectively (see appendices). In the BBFV MPA tournament, two female tope sharks and one female spiny dogfish were tagged and released. In the BPSJ MPA tournament two broadnose sevengill sharks were tagged and released. In both tournaments, a volunteer group was trained to coordinate the tagging in future events. Finally, a fundamental change in the way the RD MPA tournament operated was achieved by this current project. Over the last 46 years, this tournament was done sacrificing sharks. In 2014 this practice was changed for catch, tag and release.

Objective 3: Increase the involvement of anglers in the tagging duty.

Ninety-six fishers were trained, receiving > 1,400 dart tags (Table 2). During the spring of 2013, tagging workshops were run in 13 coastal communities where sharks are targeted by recreational fishers, including four MPAs (Figure 1, Table 2). This encompasses a total of 1,000 km of the Argentine coastline where 13 tagging nodes have been established (Figure 1, Table 3). The trained fishers represented 53 fishing groups and so far 32% has reported tagging events through a range of methods (email, text messages, cell phone, Facebook).

TN	Coastal sites by TN	Province	N° of tagging groups	N° of anglers trained by TN	Total anglers tagging by TN	% of anglers tagging by TN	N° of tags delivered	N° of sharks tagged	Tagging index by TN
1	Faro Querandí	Buenos Aires	9	27	3	33.3	120	6	0.05
2	Mar Chiquita	Buenos Aires	1	4	1	100	60	28	0.47
3	Santa Clara y Mar de Cobo	Buenos Aires	1	1	1	100	50	41	0.82
4	Mar del Plata	Buenos Aires	4	9	2	50	170	33	0.19
5	Necochea	Buenos Aires	1	1	0	0	10	0	0
6	Marisol	Buenos Aires	1	1	0	0	10	0	0
7	Pehuencó	Buenos Aires	2	3	2	100	111	30	0.27
8	Bahía Blanca, Bahía Falsa y Bahía Verde MPA	Buenos Aires	16	20	2	12.5	230	9	0.04
9	Bahía San Blas MPA	Buenos Aires	7	11	5	71.4	450	173	0.38
10	Viedma	Río Negro	2	2	0	0	40	0	0
11	San Antonio Este	Río Negro	1	1	0	0	20	0	0
12	Puerto Deseado MPA	Santa Cruz	2	5	1	50	40	9	0.23
13	Península de San Julián MPA	Santa Cruz	6	11	0	0	120	10	0.08
		Total	53	96	17		1431	339	

Table 3. Summary of the shark tagging nodes established in Argentina. TN: tagging node.

Shark tagging

Anglers have tagged and released 334 individuals of five different shark species (Figure 12). Most tagged individuals were tope sharks, followed by bronze whalers, broadnose sevengill sharks, spiny dogfish, hammerheads (*Sphyrna spp.*), angel sharks (*Squatina spp.*) and sand-tiger sharks. Santa Clara had the highest tagging index (0.82) while the lowest recorded was in the BBFV MPA (0.04). The highest shark species diversity was recorded in Pehuencó (n = 5 species) whereas the BSB MPA had the highest number of tagged individuals (n = 173). Very

few individuals were not measured (4%) or sexed (1%) and most individuals tagged were female (Figure 13). Until now, three individuals tagged by trained anglers have been recaptured and reported: 2 female tope sharks and one female bronze whaler.

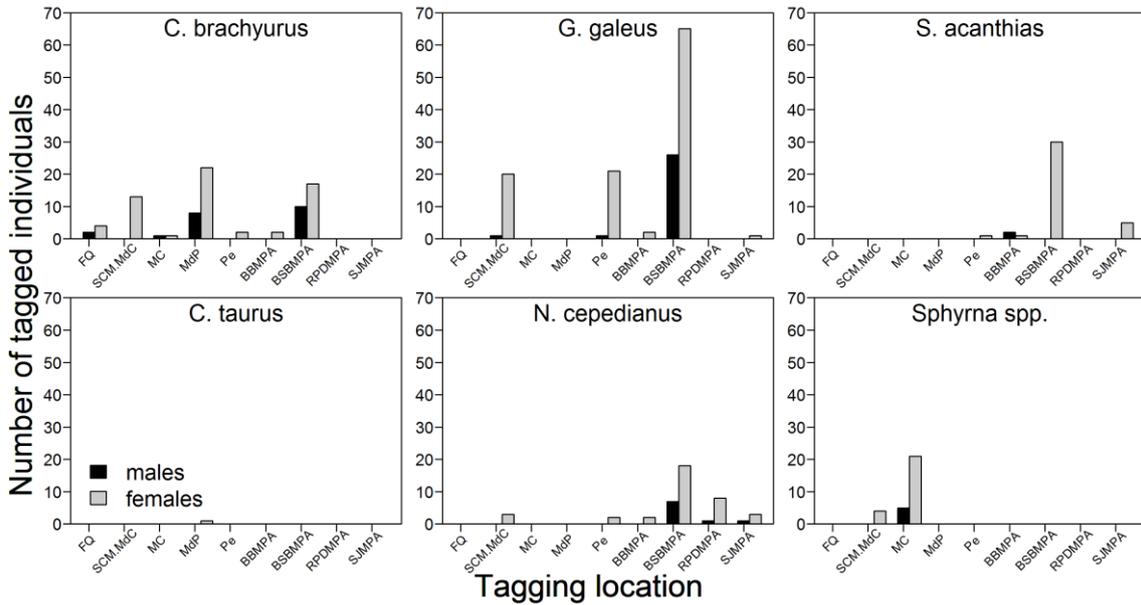


Figure 12. Number of individuals tagged by species and tagging node. FQ: Faro Querandí; SCM.MdC: Santa Clara and Mar de Cobo; MC: Mar Chiquita; MdP: Mar del Plata; Pe: Pehuencó; BBMPA: Bahía Blanca MPA; BSBMPA: Bahía San Blas MPA; RPDMPA: Ría Deseado MPA, SJMPA: San Julián MPA.

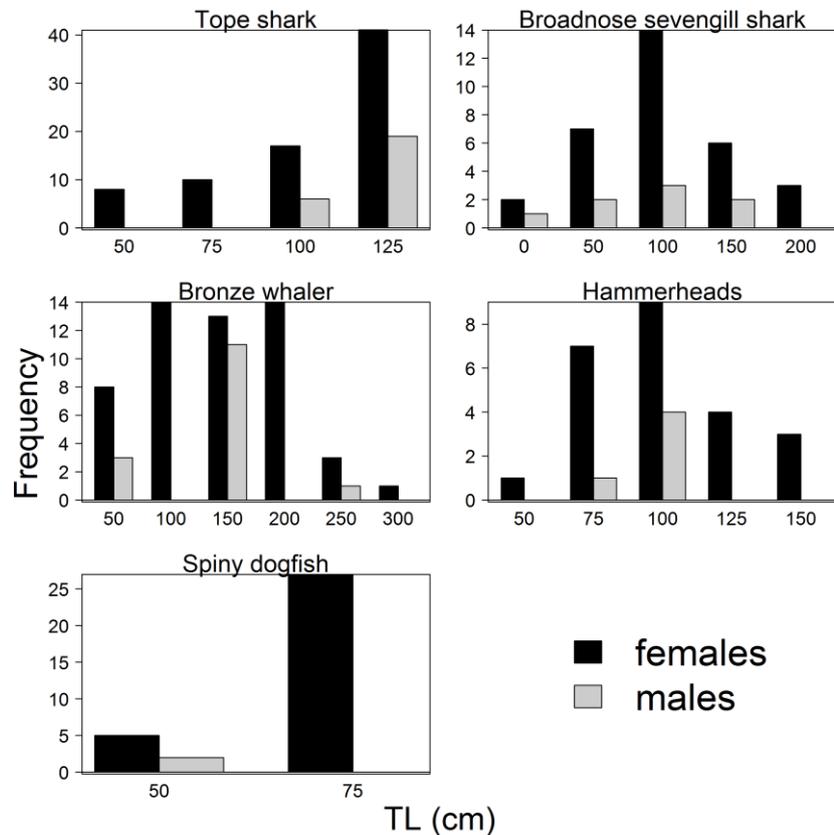


Figure 13. Size distribution of the most commonly tagged shark species.

Objective 4: Create a 2.0 Platform

Up until now, the Facebook page “Conservar Tiburones en Argentina” has 1,692 followers with a peak of 6,400 visits with the 3th recapture event, involving > 57,500 interactions within > 50 tagging events reported since the creation of the page in February 2013.

COMMUNICATION & APPLICATION OF RESULTS

Conferences

The results of this project were presented as an oral presentation at the 7th World Recreational Fishing Conference 2014 in Campinas, Brazil. The conference was celebrated between the 1st and the 4th of September 2014



Figure 14. Team leader Juan Martín Cuevas at the 7th. World Recreational Fishing Conference 2014. Campinas, Brazil. 1st to 4th of September 2014.

Anglers meetings

The results were also presented to anglers during an angler meeting celebrated in Mar del Plata in December 2014. It was completely organized by Miguel Vinciguerra and Fabián Castellán, two anglers involved in this project who tag sharks in Mar del Plata’s coast. These anglers presented during this meeting their tagging experience using kayaks and shared it with others anglers. This meeting was a great scenario to increase the link between us and the angler community of Mar del Plata. They shared their experiences in a friendly environment and it was another opportunity to call or invite new potential anglers to participate in this project.

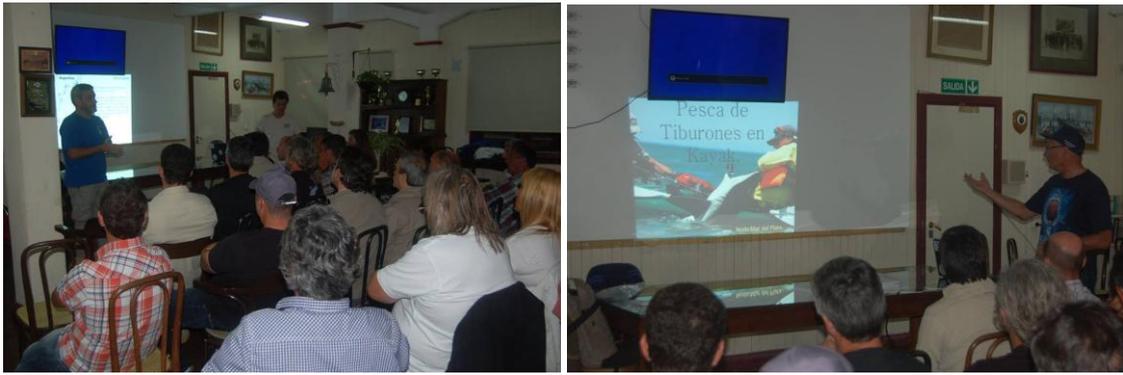


Figure 15. Team leader Juan Martín Cuevas at the anglers tagging conference (left) and Miguel Vinciguerra one of the ambassadors of the project (right) and organizers of the meeting in Mar del Plata in December 2014.

MONITORING AND EVALUATION

Since the project started we are still receiving tagging sheets by email, Facebook or delivered by hand. These tagging events are also attached with photos and/or videos that anglers shared with us and upload to youtube or their Facebook accounts (see appendices). Furthermore, the anglers participating and tagging seem to be committed to the project given the high percentage of sheets delivered completed, there is a very high percentage of sex and size records provided.

There are several indirect indicators in the effectiveness of the project, for example, the desire of other anglers to participate and collaborate in this project as well as anglers exchanging tags between those already participating in the project and those who weren't previously involved; anglers crafting home-made tag applicators and sharing it through Facebook; anglers becoming involved in tagging sharks beyond the scope of this project by word of mouth; anglers self organized three new tagging workshops; continuous request for tags by new anglers through Facebook or face-to-face during tagging campaigns; continuous offering from volunteers to provide logistic support during tagging campaigns, inform about the project through the local radio and TV.

Finally, another indicator is that all shark tournaments included in this project still have the 'cath-tag-release' modality as mandatory.

ACHIEVEMENTS AND IMPACTS

This project was focused on the cooperation among scientists; we dedicated avid recreational shark fishers and the general community for the establishment of a shark tagging network with nodes at the main shark breeding and recreational fishing areas in Argentina. We

proposed this is a practical alternative for fostering the conservation status of Argentinean sharks.

Traditional top down measures for managing recreational fishing impacts include controlling resource access and extractions (Arlinghaus 2005; Lewin 2006). In Argentina, only two (Buenos Aires and Santa Cruz) of the five coastal provinces have passed legislation for managing recreational fishing for sharks. These top down measures, however, have been controversial, generating conflicts within the coastal communities and resulting in an increase of illegal fishing (Llompart *et al.* 2011). This can be a common outcome for top down measures aimed at regulating recreational fishing, which are generally triggered by a poor consultation/participation of recreational fishers in the decision and policy-making process (Arlinghaus 2005). Argentina's extensive coastline coupled with a general lack of resources for monitoring and enforcement result, in practice, in poor management of shark populations. Co-management has been suggested as a practical alternative where local communities, recreational fishers, scientists, NGOs, and the government participate in the decision-making process (Llompart 2011).

Collaborative tagging programs are challenging; considerable time is spent on training a large enough number of anglers in order to tag large numbers of sharks as in scientific tagging programs. Furthermore, the amount and quality of data recorded by anglers can be variable (Kolher & Turner 2001). Our project intended to set up the first-step for the co-management of sharks in Argentina: we established an education plan and a tagging program in the main coastal areas where recreational fishing for sharks takes place.

Furthermore, there are positive features of voluntary tagging programs, particularly in developing countries like Argentina, where top down policies may not be efficient. These programs provide an opportunity to create a link between anglers and scientists and to increase the awareness of the angler communities with regards to the conservation status of sharks: thus, the anglers participating in this study seem to have been committed to the project given the very high percentage of sex and size records provided.

Likewise, another advantage of voluntary programs is their low cost/benefit rate (Kolher & Turner 2001). It would be almost impossible for scientific group or institution, particularly in a developing country with a vast and largely remote coastline such as Argentina, to achieve the tagging success of well-trained and organised anglers. In this study, establishing tagging nodes at key areas along the Argentine coast where aggregation of large coastal sharks occur, has become an optimisation of the tagging efforts.

The main recreational shark fishing areas, and in particular the main shark fishing tournaments, of Argentina overlap with the main breeding grounds of coastal sharks (Cedrola

et al. 2011). This can have a disproportionately negative impact because, although release of captured sharks is mandatory at least in Buenos Aires province, individuals captured in these breeding aggregations are mostly always retained in practice and the fishing effort is substantial (Llompert 2011).

In Argentina, shark fishing tournaments have taken place for more than 45 years but, due to a dramatic decline in catches (Caille & Cedrola 2007; Calvo 2008), the traditional practice of sacrificing sharks has gradually been shifting to more sustainable practices of catch-and-release, including the applications of protocols for good handling practices (Cedrola *et al.* 2009b). For example, in Southern Patagonia, two of the longest-running shark-fishing tournaments are now catch, tag-and-release. This has synergistic effect, fostering fisher participation and involvement in shark conservation through tagging programs (Cedrola *et al.* 2011). Our project has been essential to reinforce these sustainable practices in the whole-of-country level. To date, there are no shark tournaments which sacrifice sharks in the MPAs of Argentina. This, in turn, resulted in the highest number of tagged sharks taking place in the Bahía San Blas MPA, the recreational fishing site with the highest angling pressure of Argentina (Llompert 2011) and the main nursery and breeding zone for tope, broadnose sevengill, sand-tiger and bronze whaler sharks in the Southwest Atlantic Ocean (Lucifora 2003).

CAPACITY DEVELOPMENT AND LEADERSHIP CAPABILITIES

Thinking always positively is very useful and most of the time helps to calm down the anxiety, especially when things are not running very well or in the way they ought to be. For example, we tried to focus on the positive results obtained instead of looking at negative side. When an angler wasn't calling or answering emails, we learned to move towards the next step as fast as we could, always being two steps forward. This scenario helped us to join together as a group mainly during the field campaigns where the pressure increased due to the fact that we were running against time. Finally, every day we had a reflexive time to discuss the pros and cons of every encounter, how to change or to improve our strategy.

Section 3

CONCLUSION

- Given the short time the project has been executed (< 2 years), the overall recapture rate (0.91%) and that one species was tagged over 100 individuals (*Galeorhinus galeus*, n = 140) we can state that the program has the same performance of other successful programs in developed countries.

- The existence of tournaments with sharks sacrifice in all Marine Protected Areas of Argentina has been eradicated and tagging was included officially in all of them.
- The high number of individuals measured (96%) and sexed (99%) by trained anglers during tagging events demonstrates a high level of involvement and commitment with this program.
- Anglers have successfully engaged in shark conservation program as key stakeholders with a simple and feasible participation, and a clear message: “you can continue with the shark fishing, but in a sustainable way”.
- There are groups with different motivational interest (i.e anglers and fishing guides) where different messages for each of them must be produced.
- This type of citizen science projects may provide an alternative to the management and conservation of coastal sharks in Argentina. Based on our experience, we believe that the successful involvement of the recreational fishing community in shark conservation is possible. Hence, as a better and fruitful alternative for the current top-down approach, we recommend a co-management approach for the conservation of Argentinean sharks with an active involvement of anglers as key stakeholders.

PROBLEMS ENCOUNTERED AND LESSONS LEARNT

The experience most of times is similar to the field work of an anthropologist. Working with people is very complicated for us. As biologist we lack of skills to work and interact with people. Nevertheless, as conservation biologists we know that this interaction it's vital for us to achieve an efficient conservation. In every encounter we learn something about the topic we are working or about ourselves. We learn to be flexible and ready to adapt to every new scenario and to be prepared to every meeting according to the circumstances.

Meeting different groups of anglers and being accepted by each group was the hardest barrier we had to face. We had to adapt our message and approach style to each type of group. For example, angler guides needed an economic motivation. Therefore our speech was focused on the fact that they will get more clients if they shifted their speech from a commercial one to a conservation one. Some individual anglers needed an expansion of their ego, whether to be in the cover of a magazine or five minutes in a fishing TV program. As you can see, we needed to be creative to reach them all.

It is very difficult and it takes time to build a true relationship. However, if we generated a climate of understanding it was far more possible to achieve positive results.

Another challenge was to convince them to believe in our work and create strong bonds that would able us to continue the relationship virtually through social networks. We realized that we needed to meet them face to face at least twice to achieve this kind of bond so to continue with this link virtually or personally.

Anglers are the heart of the project, if they haven't got involved the project would have died. Our project is a science-citizen based project. In our case anglers are the ones that do the field work: the shark tagging. But they don't just tag, they get truly involved carrying on the message through the rest of the angler community: "we are doing our part, we are committed to a conservation project, we are taking care of our sharks by fishing, tagging and releasing them alive".

IN THE FUTURE

During the project we considered the anglers as one of the key player in the problem of conservation of sharks in Argentina. We have built a strong alliance between anglers and scientist that must continue to be sustainable in time. Therefore, as a citizen-science based project we believe that anglers, sooner or later, will have to take the project as their own and we will do our part as technical advisors. To achieve this, first we need to:

- Create more tagging nodes, specially covering the gap between Río Negro and Santa Cruz provinces, therefore including Chubut Province.
- Establish a National Tagging Network based on the alliance created during this project and with an official support from national authorities.
- Anglers must be grouped in a single national fishing association.

Another important stakeholder linked to the conservation of sharks in Argentina is the commercial fishery: both artisanal and industrial. Therefore, we think that these fisherman are an important source. They are the ones that could provide, in the future, information about new tagged sharks (recaptured) and maybe the not reported captures of tagged sharks in their nets could explain the low number of recaptures recorded during the project. As a result, our next steps are to engage artisanal fishers into the project, aware the industrial fishing about our tagging programme and strengthen the actual alliance between anglers and scientist.

FINANCIAL REPORT

Itemized expenses	Total CLP Requested (USD)*	Total CLP Spent (USD)	% Difference	Details & Justification (Justification must be provided if figure in column D is +/- 25%)	Proposed Spending (Preliminary Report Only)
PHASE I - PROJECT PREPARATION					
Communications (telephone/internet/postage)		154,64			
Field guide books, maps, journal articles and other printed materials	1200	99,62	-92%	We got confused thinking that here was for spending the shark tagging manual design and printing, wich was included in the outreach section below (USD 961,23). It was not necessary to use it because the training was done by the local advisor (Gustavo Chiamonte). The external advisor (Paula Cedrola) did not travel to Buenos Aires for team training.	
	300				
Insurance		39,46	-87%		
Visas and permits	710				
Team training			-100%		
Reconnaissance		35,07			
Other (Phase 1)		180,19			
EQUIPMENT					
Scientific/field equipment and supplies	1000	3266,86	227%		
Photographic equipment					
Camping equipment					
Boat/engine/truck (including car hire)					
Other (Equipment)					
PHASE II - IMPLEMENTATION					
Accommodation for team members and local guides	1860	121,84	-93%	During the logistic design we arranged for free accomodation with most of the local angler	

Food for team members and local guides	1736	2239,94	29%	communities.		
Travel and local transportation (including fuel)	5000	4401,19	-12%			
Customs and/or port duties	600			This expenditure was ment for coffee break and meal supplies during the implementation of the tagging workshops. However it was not necessary to use it due to the fact that we did not have time to include a coffee break in the workshops.		
Workshops	1000		-100%			
Outreach/Education activities and materials (brochures, posters, video, t-shirts, etc.)		4172,89	317%			
Other (Phase 2)		6,70				
PHASE III - POST-PROJECT EXPENSES						
Administration		35,49				
Report production and results dissemination	900	249,24	-72%			
Other (Phase 3)	694		-100%			
Total	15.000,00	15.003,12				

*These figures should be the same as those listed in the original proposal

Section 4

APPENDICES

Tagging sheets sent by anglers by email or FB.

Enviar planilla completa a:
Gustavo Chiaramonte: gchiaram@retina.ar
Juan Martín Cuevas: juanmartin_cuevas@yahoo.com.br

Especie:
Azul
Bacota
Cazón / Vitamínico
Escalandrón
Espinillo / Espineto
Gatopardo
Mako
Martillo
Punta Blanca Océanico
Zorro

Fecha: 17/2/2015
Hora: 11:15 HS
Nº de marca: 0925
Localidad: Mar Chiquita
Lat/Long: S 37° 44' W 57° 22'

Sexo: Macho
Hembra

Longitud total (LT): 80 cm
Embarcado:
Costa:

Tipo de carnada: ANCHOITA
Nombres y Apellidos: EDUARDO BONAFISIA
Comentarios: GUÍA MARTÍN DÍAZ VIGNOLA

Enviar planilla completa a:
Gustavo Chiaramonte: gchiaram@retina.ar
Juan Martín Cuevas: juanmartin_cuevas@yahoo.com.br

Especie:
Azul
Bacota
Cazón / Vitamínico
Escalandrón
Espinillo / Espineto
Gatopardo
Mako
Martillo
Punta Blanca Océanico
Zorro

Fecha: 16/2/2015
Hora: 10:45
Nº de marca: 1072
Localidad: Mar Chiquita
Lat/Long: S 37° 44' W 57° 22'

Sexo: Macho
Hembra

Longitud total (LT): 80 cm
Embarcado:
Costa:

Tipo de carnada: ANCHOITA
Nombres y Apellidos: AGUEL ABOGOSIO
Comentarios: GUÍA LUIS ROS

Enviar planilla completa a:
Gustavo Chiaramonte: gchiaram@retina.ar
Juan Martín Cuevas: juanmartin_cuevas@yahoo.com.br

Especie:
Azul
Bacota
Cazón / Vitamínico
Escalandrón
Espinillo / Espineto
Gatopardo
Mako
Martillo
Punta Blanca Océanico
Zorro

Fecha: 16/2/2015
Hora: 11:15
Nº de marca: 1023
Localidad: Mar Chiquita
Lat/Long: S 37° 44' W 57° 22'

Sexo: Macho
Hembra

Longitud total (LT): 1 m
Embarcado:
Costa:

Tipo de carnada: ANCHOITA
Nombres y Apellidos: MARCELO PEREZ
Comentarios: GUÍA LUIS ROS

Enviar planilla completa a:
Gustavo Chiaramonte: gchiaram@retina.ar
Juan Martín Cuevas: juanmartin_cuevas@yahoo.com.br

Especie:
Azul
Bacota
Cazón / Vitamínico
Escalandrón
Espinillo / Espineto
Gatopardo
Mako
Martillo
Punta Blanca Océanico
Zorro

Fecha: 16/2/2015
Hora: 9:45
Nº de marca: 1020
Localidad: Mar Chiquita
Lat/Long: S 37° 44' W 57° 22'

Sexo: Macho
Hembra

Longitud total (LT): 1,20 m
Embarcado:
Costa:

Tipo de carnada: ANCHOITA
Nombres y Apellidos: ANGELO BOGOSIO
Comentarios: GUÍA LUIS ROS

Enviar planilla completa a:
Gustavo Chiaramonte: gchiaram@retina.ar
Juan Martín Cuevas: juanmartin_cuevas@yahoo.com.br

Especie:
Azul
Bacota
Cazón / Vitamínico
Escalandrón
Espinillo / Espineto
Gatopardo
Mako
Martillo
Punta Blanca Océanico
Zorro

Fecha: 11/02/2015
Hora: 09:50
Nº de marca: 1071
Localidad: Mar Chiquita
Lat/Long: S 37° 44' W 57° 22'

Sexo: Macho
Hembra

Longitud total (LT): 90 cm
Embarcado:
Costa:

Tipo de carnada: salmon
Nombres y Apellidos: Diego Vignola Martin
Comentarios: Guía Martin Diego Vignola

Enviar planilla completa a:
Gustavo Chiaramonte: gchiaram@retina.ar
Juan Martín Cuevas: juanmartin_cuevas@yahoo.com.br

Especie:
Azul
Bacota
Cazón / Vitamínico
Escalandrón
Espinillo / Espineto
Gatopardo
Mako
Martillo
Punta Blanca Océanico
Zorro

Fecha: 11/02/2015
Hora: 10:20
Nº de marca: 1072
Localidad: Mar Chiquita
Lat/Long:

Sexo: Macho
Hembra

Longitud total (LT): 80 cm
Embarcado:
Costa:

Tipo de carnada: Anchoita
Nombres y Apellidos:
Comentarios: Guía Martin Diego Vignola

Enviar planilla completa a:
Gustavo Chiaramonte: gchiaram@retina.ar
Juan Martín Cuevas: juanmartin_cuevas@yahoo.com.br

Especie:
Azul
Bacota
Cazón / Vitamínico
Escalandrón
Espinillo / Espineto
Gatopardo
Mako
Martillo
Punta Blanca Océanico
Zorro

Fecha: 15/2/2015
Hora: 10:30
Nº de marca: 1252
Localidad: Mar Chiquita
Lat/Long: S 37° 44' W 57° 22'

Sexo: Macho
Hembra

Longitud total (LT): 80 cm
Embarcado:
Costa:

Tipo de carnada: ANCHOITA
Nombres y Apellidos: BERNABE SED
Comentarios: GUÍA GERÓNIMO BEOTTI

Enviar planilla completa a:
Gustavo Chiaramonte: gchiaram@retina.ar
Juan Martín Cuevas: juanmartin_cuevas@yahoo.com.br

Especie:
Azul
Bacota
Cazón / Vitamínico
Escalandrón
Espinillo / Espineto
Gatopardo
Mako
Martillo
Punta Blanca Océanico
Zorro

Fecha: 10/2
Hora: 14:30
Nº de marca: 1255
Localidad: Mar Chiquita
Lat/Long: S 37° 44' W 57° 22'

Sexo: Macho
Hembra

Longitud total (LT): 1 m
Embarcado:
Costa:

Tipo de carnada: ANCHOITA
Nombres y Apellidos: KACIWA GARCIA SAFDIE
Comentarios: Mny y W Guía PATO ROS

Enviar planilla completa a:
Gustavo Chiaramonte: gchiaram@retina.ar
Juan Martín Cuevas: juanmartin_cuevas@yahoo.com.br

Especie: Azul Bacota Cañón / Vitamínico Escalandrun Espinillo / Espineto Gatopardo Mako Martillo Punta Blanca Oceánico Zorro

Fecha: 17/2/2015 Hora: 12 HS Nº de marca: 1254 Localidad: MAR CHIGUITA Lat/Long: S 33° 44' W 51° 22'

Longitud total (LT): 1.01 Embarcado: Costa:

Tipo de carnada: CALAMAR

Nombres y Apellidos: **OSAMAR**

Comentarios: **GUIA GERONIMO MEZA BELOTTI**

Enviar planilla completa a:
Gustavo Chiaramonte: gchiaram@retina.ar
Juan Martín Cuevas: juanmartin_cuevas@yahoo.com.br

Especie: Azul Bacota Cañón / Vitamínico Escalandrun Espinillo / Espineto Gatopardo Mako Martillo Punta Blanca Oceánico Zorro

Fecha: 17/2/2015 Hora: 11 HS Nº de marca: 1259 Localidad: MAR CHIGUITA Lat/Long: S 33° 44' W 51° 22'

Longitud total (LT): 1.50 Embarcado: Costa:

Tipo de carnada: CALAMAR

Nombres y Apellidos: **LUIS CHO**

Comentarios: **GUIA GERONIMO MEZA BELOTTI**

Enviar planilla completa a:
Gustavo Chiaramonte: gchiaram@retina.ar
Juan Martín Cuevas: juanmartin_cuevas@yahoo.com.br

Especie: Azul Bacota Cañón / Vitamínico Escalandrun Espinillo / Espineto Gatopardo Mako Martillo Punta Blanca Oceánico Zorro

Fecha: 16/2/2015 Hora: 9:30 HS Nº de marca: 1265 Localidad: MAR CHIGUITA Lat/Long: S 33° 44' W 51° 22'

Longitud total (LT): 1.120 Embarcado: Costa:

Tipo de carnada: ANCHOITA

Nombres y Apellidos: **ANDRÉS CALIENDO**

Comentarios: **GUIA PABLO PIZZO**

Enviar planilla completa a:
Gustavo Chiaramonte: gchiaram@retina.ar
Juan Martín Cuevas: juanmartin_cuevas@yahoo.com.br

Especie: Azul Bacota Cañón / Vitamínico Escalandrun Espinillo / Espineto Gatopardo Mako Martillo Punta Blanca Oceánico Zorro

Fecha: 11/2 Hora: 11:15 HS Nº de marca: 1267 Localidad: MAR CHIGUITA Lat/Long: S 33° 44' W 51° 23'

Longitud total (LT): 1.50 Embarcado: Costa:

Tipo de carnada: ANCHOITA

Nombres y Apellidos: **JOSE FIORITTI**

Comentarios: **GUIA GERONIMO MEZA BELOTTI**

Enviar planilla completa a:
Gustavo Chiaramonte: gchiaram@retina.ar
Juan Martín Cuevas: juanmartin_cuevas@yahoo.com.br

Especie: Azul Bacota Cañón / Vitamínico Escalandrun Espinillo / Espineto Gatopardo Mako Martillo Punta Blanca Oceánico Zorro

Fecha: 3/2/2015 Hora: 10 HS Nº de marca: 0931 Localidad: MAR CHIGUITA Lat/Long: S 33° 49,7' W 51° 23,3'

Longitud total (LT): 1.00 Embarcado: Costa:

Tipo de carnada: ANCHO Y CALAMAR

Nombres y Apellidos: **CHEN JIE**

Comentarios: **GUIA LUIS ROS**

Enviar planilla completa a:
Gustavo Chiaramonte: gchiaram@retina.ar
Juan Martín Cuevas: juanmartin_cuevas@yahoo.com.br

Especie: Azul Bacota Cañón / Vitamínico Escalandrun Espinillo / Espineto Gatopardo Mako Martillo Punta Blanca Oceánico Zorro

Fecha: 4/2/2015 Hora: 11 HS Nº de marca: 0933 Localidad: MAR CHIGUITA Lat/Long: S 33° 44,7' W 51° 23,3'

Longitud total (LT): 90 cm Embarcado: Costa:

Tipo de carnada: ANCHOA

Nombres y Apellidos: **VICTOR BONIFATO**

Comentarios: **GUIA PABLO PIZZO**

Enviar planilla completa a:
Gustavo Chiaramonte: gchiaram@retina.ar
Juan Martín Cuevas: juanmartin_cuevas@yahoo.com.br

Especie: Azul Bacota Cañón / Vitamínico Escalandrun Espinillo / Espineto Gatopardo Mako Martillo Punta Blanca Oceánico Zorro

Fecha: 5/2/15 Hora: 8:40 Nº de marca: 0941 Localidad: MAR CHIGUITA Lat/Long: S 33° 49,7' W 51° 23,3'

Longitud total (LT): 0.80 Embarcado: Costa:

Tipo de carnada: CALAMAR

Nombres y Apellidos: **DAMIAN FERREIRA**

Comentarios: **MUY BUENO**

Enviar planilla completa a:
Gustavo Chiaramonte: gchiaram@retina.ar
Juan Martín Cuevas: juanmartin_cuevas@yahoo.com.br

Especie: Azul Bacota Cañón / Vitamínico Escalandrun Espinillo / Espineto Gatopardo Mako Martillo Punta Blanca Oceánico Zorro

Fecha: 6/2/2015 Hora: 10:00 Nº de marca: 0943 Localidad: MAR CHIGUITA Lat/Long: S 33° 49,7' W 51° 23,3'

Longitud total (LT): 1.30 Embarcado: Costa:

Tipo de carnada: CALAMAR

Nombres y Apellidos: **DAVID KING**

Comentarios: **BUENA EXPERIENCIA**

Enviar planilla completa a:
 Gustavo Chiaramonte: gchiaram@retina.ar
 Juan Martín Cuevas: juanmartin_cuevas@yahoo.com.br

Especie: Azul Bacota Cazón / Vitamínico Escalandrun Espinillo / Espineto Gatopardo Mako Martillo Punta Blanca Océanico Zorro

Fecha: 5/2/015 Hora: 9:25 No de marca: 0941 Localidad: MAR CHIGUITA Lat/Long: _____

Sexo: Macho Hembra

Longitud total (LT): 1.20 Embarcado: Costas:

Tipo de carnada: CALAMAR

Nombres y Apellidos: MARTHA CHANG

Comentarios: MUY BUENA EXPERIENCIA

Enviar planilla completa a:
 Gustavo Chiaramonte: gchiaram@retina.ar
 Juan Martín Cuevas: juanmartin_cuevas@yahoo.com.br

Especie: Azul Bacota Cazón / Vitamínico Escalandrun Espinillo / Espineto Gatopardo Mako Martillo Punta Blanca Océanico Zorro

Fecha: 5/2/015 Hora: 8:15 No de marca: 0949 Localidad: MAR CHIGUITA Lat/Long: _____

Sexo: Macho Hembra

Longitud total (LT): 1 MT Embarcado: Costas:

Tipo de carnada: CALAMAR

Nombres y Apellidos: CRISTIAN KIM

Comentarios: MUY BUENA

Enviar planilla completa a:
 Gustavo Chiaramonte: gchiaram@retina.ar
 Juan Martín Cuevas: juanmartin_cuevas@yahoo.com.br

Especie: Azul Bacota Cazón / Vitamínico Escalandrun Espinillo / Espineto Gatopardo Mako Martillo Punta Blanca Océanico Zorro

Fecha: 26/1/15 Hora: 18:00 No de marca: 1021 Localidad: MAR CHIGUITA Lat/Long: _____

Sexo: Macho Hembra

Longitud total (LT): 1 m Embarcado: Costas:

Tipo de carnada: CALAMAR

Nombres y Apellidos: EMANUEL HONG

Comentarios: UNA BUENA EXPERIENCIA
 Guia LUIS (P)

Enviar planilla completa a:
 Gustavo Chiaramonte: gchiaram@retina.ar
 Juan Martín Cuevas: juanmartin_cuevas@yahoo.com.br

Especie: Azul Bacota Cazón / Vitamínico Escalandrun Espinillo / Espineto Gatopardo Mako Martillo Punta Blanca Océanico Zorro

Fecha: 8/1/2015 Hora: 10:45 No de marca: 1073 Localidad: MAR CHIGUITA Lat/Long: S 37° 44,6' W 53° 22,4'

Sexo: Macho Hembra

Longitud total (LT): 80 cm AROX Embarcado: Costas:

Tipo de carnada: CALAMAR

Nombres y Apellidos: FRANCISCO OTONDO

Comentarios: GUIA GERONIMO MEZA BELOTTI

Enviar planilla completa a:
 Gustavo Chiaramonte: gchiaram@retina.ar
 Juan Martín Cuevas: juanmartin_cuevas@yahoo.com.br

Especie: Azul Bacota Cazón / Vitamínico Escalandrun Espinillo / Espineto Gatopardo Mako Martillo Punta Blanca Océanico Zorro

Fecha: 8/1/2016 Hora: 9:30 No de marca: 1073 Localidad: MAR CHIGUITA Lat/Long: S 37° 44,6' W 53° 22,4'

Sexo: Macho Hembra

Longitud total (LT): 1,40 cm AROX Embarcado: Costas:

Tipo de carnada: ANCHOA

Nombres y Apellidos: ALEJANDRO MARTINEZ

Comentarios: GUIA GERONIMO MEZA BELOTTI

Enviar planilla completa a:
 Gustavo Chiaramonte: gchiaram@retina.ar
 Juan Martín Cuevas: juanmartin_cuevas@yahoo.com.br

Especie: Azul Bacota Cazón / Vitamínico Escalandrun Espinillo / Espineto Gatopardo Mako Martillo Punta Blanca Océanico Zorro

Fecha: 25/1/15 Hora: 12:00 No de marca: 1080 Localidad: MAR CHIGUITA Lat/Long: 1 m 80 cm

Sexo: Macho Hembra

Longitud total (LT): 1,20 cm Embarcado: Costas:

Tipo de carnada: CALAMAR

Nombres y Apellidos: GERARDO MENEZES

Comentarios: Muy buena experiencia con devolución de Luján - Guat - Guia LUIS (P)

Enviar planilla completa a:
 Gustavo Chiaramonte: gchiaram@retina.ar
 Juan Martín Cuevas: juanmartin_cuevas@yahoo.com.br

Especie: Azul Bacota Cazón / Vitamínico Escalandrun Espinillo / Espineto Gatopardo Mako Martillo Punta Blanca Océanico Zorro

Fecha: 25/01/15 Hora: 10:50 No de marca: 1258 Localidad: MAR CHIGUITA B2A1 Lat/Long: S 37° 44,6' W 53° 22,4'

Sexo: Macho Hembra

Longitud total (LT): 1,50 m (AROX) Embarcado: Costas:

Tipo de carnada: CALAMAR y ANCHOA

Nombres y Apellidos: GERONIMO MEZA BELOTTI

Comentarios: PICO UNO PRIMERO y EL SEGUNDO SIGUIENDO A LAS PESCADILLAS CHICAS. A 3.500 m de la COSTA

Enviar planilla completa a:
 Gustavo Chiaramonte: gchiaram@retina.ar
 Juan Martín Cuevas: juanmartin_cuevas@yahoo.com.br

Especie: Azul Bacota Cazón / Vitamínico Escalandrun Espinillo / Espineto Gatopardo Mako Martillo Punta Blanca Océanico Zorro

Fecha: 05/02/15 Hora: 10:15 No de marca: 1260 Localidad: MAR CHIGUITA B2A1 Lat/Long: S 37° 44,6' W 53° 22,4'

Sexo: Macho Hembra

Longitud total (LT): 1,40 Mts AROX Embarcado: Costas:

Tipo de carnada: ANCHOA y CALAMAR

Nombres y Apellidos: GERONIMO MEZA BELOTTI

Comentarios: ESTABA LLEGO.

Enviar planilla completa a:
 Gustavo Chirramonte: gchiram@retina.ar
 Juan Martín Cuevas: juanmartin_cuevas@yahoo.com.br

Especie: Azul Bacota Cazón / Vitamínico Escalandrun Espinillo / Espinero Gatopardo Mako Martillo Punta Blanca Océanico Zorro

Fecha: 05/02/15 Hora: 09:20 Nº de marca: 1261 Localidad: *PARANÁICO ASES MARCHIGUITA*
 Lat/Long: *S 38° 44' 1" W 59° 22' 41"*

Sexo: Macho Hembra

Longitud total (LT): *1,20 metros* Embarcado: Costa:

Tipo de carnada: *ANCHORITA*

Nombres y Apellidos: *GERARMINO MEZA BELLOTTI*

Comentarios: *PICO UNO COSTA y luego EL CIRCO A LOS MINUTOS*

Enviar planilla completa a:
 Gustavo Chirramonte: gchiram@retina.ar
 Juan Martín Cuevas: juanmartin_cuevas@yahoo.com.br

Especie: Azul Bacota Cazón / Vitamínico Escalandrun Espinillo / Espinero Gatopardo Mako Martillo Punta Blanca Océanico Zorro

Fecha: 7/2/2015 Hora: 10:00 Nº de marca: 1263 Localidad: *MARCHIGUITA*
 Lat/Long: *S 38° 47' W 59° 20,9'*

Sexo: Macho Hembra

Longitud total (LT): *1,5 metros* Embarcado: Costa:

Tipo de carnada: *ANCHORITA*

Nombres y Apellidos: *DAMIÁN KUON*

Comentarios: *GUIA GERARMINO MEZA BELLOTTI*

Enviar planilla completa a:
 Gustavo Chirramonte: gchiram@retina.ar
 Juan Martín Cuevas: juanmartin_cuevas@yahoo.com.br

Especie: Azul Bacota Cazón / Vitamínico Escalandrun Espinillo / Espinero Gatopardo Mako Martillo Punta Blanca Océanico Zorro

Fecha: 02/02/15 Hora: 10:25 Nº de marca: 1268 Localidad: *PARANÁICO ASES MARCHIGUITA*
 Lat/Long: *S 38° 44' 1" W 59° 22' 41"*

Sexo: Macho Hembra

Longitud total (LT): *40 cm. Mako* Embarcado: Costa:

Tipo de carnada: *PILES DE PESCADILLA Y ANCHORITA*

Nombres y Apellidos: *GERARMINO MEZA BELLOTTI*

Comentarios: *OLVIDA A ANCHORITA CON EL CHERMUN DE PESCADILLA.*

Enviar planilla completa a:
 Gustavo Chirramonte: gchiram@retina.ar
 Juan Martín Cuevas: juanmartin_cuevas@yahoo.com.br

Especie: Azul Bacota Cazón / Vitamínico Escalandrun Espinillo / Espinero Gatopardo Mako Martillo Punta Blanca Océanico Zorro

Fecha: 1/2/05 Hora: 10:45 Nº de marca: 1270 Localidad: *MAR CHIGUITA*
 Lat/Long: *S 38° 44' 1" W 59° 22' 41"*

Sexo: Macho Hembra

Longitud total (LT): *1 MT* Embarcado: Costa:

Tipo de carnada: *CALAMAR*

Nombres y Apellidos: *EMILIANO MARTINES*

Comentarios: *EXPERIMENTAR LA EXPERIENCIA GUIA LUIS ROS*

Enviar planilla completa a:
 Gustavo Chirramonte: gchiram@retina.ar
 Juan Martín Cuevas: juanmartin_cuevas@yahoo.com.br

Especie: Azul Bacota Cazón / Vitamínico Escalandrun Espinillo / Espinero Gatopardo Mako Martillo Punta Blanca Océanico Zorro

Fecha: 10/1/2015 Hora: 11:38 Nº de marca: 1927 Localidad: *Mar del Plata*
 Lat/Long:

Sexo: Macho Hembra

Longitud total (LT): *160 cm* Embarcado: Costa:

Tipo de carnada: *Colomero*

Nombres y Apellidos: *Diego Martínez*

Comentarios:

Enviar planilla completa a:
 Gustavo Chirramonte: gchiram@retina.ar
 Juan Martín Cuevas: juanmartin_cuevas@yahoo.com.br

Especie: Azul Bacota Cazón / Vitamínico Escalandrun Espinillo / Espinero Gatopardo Mako Martillo Punta Blanca Océanico Zorro

Fecha: 10/1/2015 Hora: 12:00 Nº de marca: 1930 Localidad: *Mar del Plata*
 Lat/Long:

Sexo: Macho Hembra

Longitud total (LT): *270 cm* Embarcado: Costa:

Tipo de carnada: *Colomero*

Nombres y Apellidos: *Diego Martínez*

Comentarios:

Enviar planilla completa a:
 Gustavo Chirramonte: gchiram@retina.ar
 Juan Martín Cuevas: juanmartin_cuevas@yahoo.com.br

Especie: Azul Bacota Cazón / Vitamínico Escalandrun Espinillo / Espinero Gatopardo Mako Martillo Punta Blanca Océanico Zorro

Fecha: 10/1/2015 Hora: 10:18 Nº de marca: 1929 Localidad: *Mar del Plata*
 Lat/Long:

Sexo: Macho Hembra

Longitud total (LT): *170 cm* Embarcado: Costa:

Tipo de carnada: *Colomero*

Nombres y Apellidos:

Comentarios:

Enviar planilla completa a:
 Gustavo Chirramonte: gchiram@retina.ar
 Juan Martín Cuevas: juanmartin_cuevas@yahoo.com.br

Especie: Azul Bacota Cazón / Vitamínico Escalandrun Espinillo / Espinero Gatopardo Mako Martillo Punta Blanca Océanico Zorro

Fecha: 27/1/2015 Hora: 10:30 Nº de marca: 1927 Localidad: *Mar del Plata*
 Lat/Long: *Resinga*

Sexo: Macho Hembra

Longitud total (LT): *190 cm* Embarcado: Costa:

Tipo de carnada: *Colomero*

Nombres y Apellidos: *Diego Martínez*

Comentarios:

Enviar planilla completa a:
 Gustavo Chirramonte: gchiram@retina.ar
 Juan Martín Cuevas: juanmartin_cuevas@yahoo.com.br

Especie: Azul Bacota Cazón / Vitamínico Escalandrun Espinillo / Espinero Gatopardo Mako Martillo Punta Blanca Océanico Zorro

Fecha: 27/1/2015 Hora: 11:10 Nº de marca: *192* Localidad: *Mar del Plata*
 Lat/Long: *Resinga*

Sexo: Macho Hembra

Longitud total (LT): *150 cm* Embarcado: Costa:

Tipo de carnada: *Colomero*

Nombres y Apellidos: *Diego Martínez*

Comentarios:

Enviar planilla completa a:
 Gustavo Chirramonte: gchiram@retina.ar
 Juan Martín Cuevas: juanmartin_cuevas@yahoo.com.br

Especie: Azul Bacota Cazón / Vitamínico Escalandrun Espinillo / Espinero Gatopardo Mako Martillo Punta Blanca Océanico Zorro

Fecha: 27-12-13 Hora: 20:30 Nº de marca: 1873 Localidad: *FALDO GUERANDI*
 Lat/Long:

Sexo: Macho Hembra

Longitud total (LT): *1,38 metros* Embarcado: Costa:

Tipo de carnada: *ANCHOA*

Nombres y Apellidos: *Diego Martínez*

Comentarios:

Enviar planilla completa a:
 Gustavo Chiaramonte: gchiaram@retina.ar
 Juan Martín Cuevas: juanmartin_cuevas@yahoo.com.br

Especie:
 Azul
 Bacota
 Cazón / Vitamínico
 Escalandrun
 Espinillo / Espineto
 Gatopardo
 Mako
 Martillo
 Punta Blanca Oceánico
 Zorro

Fecha: 1/12/13
 Hora: 2 Hrs
 Nº de marca: 1482
 Localidad: BAHIA BLONCA
 Lat/Long: TRES BRASAS

Sexo: Macho
 Hembra

Longitud total (LT): 2,2 METROS
 Tipo de carnada: LISA
 Nombres y Apellidos: ADRIAN FRANCISCO GARCIA
 Comentarios: GATO PARDO MUY GRANDE DE UNOS 20 KILOS

Enviar planilla completa a:
 Gustavo Chiaramonte: gchiaram@retina.ar
 Juan Martín Cuevas: juanmartin_cuevas@yahoo.com.br

Especie:
 Azul
 Bacota
 Cazón / Vitamínico
 Escalandrun
 Espinillo / Espineto
 Gatopardo
 Mako
 Martillo
 Punta Blanca Oceánico
 Zorro

Fecha: 1/12/13
 Hora: 4 Hrs
 Nº de marca: 1483
 Localidad: BAHIA BLONCA
 Lat/Long: TRES BRASAS

Sexo: Macho
 Hembra

Longitud total (LT): 2,5 METROS
 Tipo de carnada: LISA
 Nombres y Apellidos: ADRIAN FRANCISCO GARCIA
 Comentarios: SON VASTANTE MALOS NO ESTAN PIRAMIDA

Enviar planilla completa a:
 Gustavo Chiaramonte: gchiaram@retina.ar
 Juan Martín Cuevas: juanmartin_cuevas@yahoo.com.br

Especie:
 Azul
 Bacota
 Cazón / Vitamínico
 Escalandrun
 Espinillo / Espineto
 Gatopardo
 Mako
 Martillo
 Punta Blanca Oceánico
 Zorro

Fecha: 30/11/13
 Hora: 22 Hrs
 Nº de marca: 1481
 Localidad: BAHIA BLONCA
 Lat/Long: TRES BRASAS

Sexo: Macho
 Hembra

Longitud total (LT): 2,8 METROS
 Tipo de carnada: LISA
 Nombres y Apellidos: ADRIAN FRANCISCO GARCIA
 Comentarios: PREVIDA CON MUCHAS TUBO NET EN LA PONCA UNOS 150 KILOS MAS O MENOS

Enviar planilla completa a:
 Gustavo Chiaramonte: gchiaram@retina.ar
 Juan Martín Cuevas: juanmartin_cuevas@yahoo.com.br

Especie:
 Azul
 Bacota
 Cazón / Vitamínico
 Escalandrun
 Espinillo / Espineto
 Gatopardo
 Mako
 Martillo
 Punta Blanca Oceánico
 Zorro

Fecha: 17/11/2013
 Hora: 14:00
 Nº de marca: 0906
 Localidad: SAN BLAS
 Lat/Long:

Sexo: Macho
 Hembra

Longitud total (LT): 4,13 m
 Tipo de carnada: SOROCOA
 Nombres y Apellidos: Leonidas Gomez
 Comentarios:

Enviar planilla completa a:
 Gustavo Chiaramonte: gchiaram@retina.ar
 Juan Martín Cuevas: juanmartin_cuevas@yahoo.com.br

Especie:
 Azul
 Bacota
 Cazón / Vitamínico
 Escalandrun
 Espinillo / Espineto
 Gatopardo
 Mako
 Martillo
 Punta Blanca Oceánico
 Zorro

Fecha: 17/11/2013
 Hora: 15:00
 Nº de marca: 0907
 Localidad: SAN BLAS
 Lat/Long:

Sexo: Macho
 Hembra

Longitud total (LT): 4,35 m
 Tipo de carnada: Mague
 Nombres y Apellidos: Leonidas Gomez
 Comentarios:

Enviar planilla completa a:
 Gustavo Chiaramonte: gchiaram@retina.ar
 Juan Martín Cuevas: juanmartin_cuevas@yahoo.com.br

Especie:
 Azul
 Bacota
 Cazón / Vitamínico
 Escalandrun
 Espinillo / Espineto
 Gatopardo
 Mako
 Martillo
 Punta Blanca Oceánico
 Zorro

Fecha: 17/11/2013
 Hora: 15:15
 Nº de marca: 0908
 Localidad: SAN BLAS
 Lat/Long:

Sexo: Macho
 Hembra

Longitud total (LT): 4,30 m
 Tipo de carnada: mague
 Nombres y Apellidos: Leonidas Gomez
 Comentarios:

Enviar planilla completa a:
 Gustavo Chiaramonte: gchiaram@retina.ar
 Juan Martín Cuevas: juanmartin_cuevas@yahoo.com.br

Especie:
 Azul
 Bacota
 Cazón / Vitamínico
 Escalandrun
 Espinillo / Espineto
 Gatopardo
 Mako
 Martillo
 Punta Blanca Oceánico
 Zorro

Fecha: 17/11/2013
 Hora: 15:40
 Nº de marca: 0914
 Localidad: San Blas
 Lat/Long:

Sexo: Macho
 Hembra

Longitud total (LT): 4,13 m
 Tipo de carnada: Sorocoa
 Nombres y Apellidos: Leonidas Gomez
 Comentarios:

Enviar planilla completa a:
 Gustavo Chiaramonte: gchiaram@retina.ar
 Juan Martín Cuevas: juanmartin_cuevas@yahoo.com.br

Especie:
 Azul
 Bacota
 Cazón / Vitamínico
 Escalandrun
 Espinillo / Espineto
 Gatopardo
 Mako
 Martillo
 Punta Blanca Oceánico
 Zorro

Fecha: 17/11/2013
 Hora: 16:00
 Nº de marca: 0909
 Localidad: SAN BLAS
 Lat/Long:

Sexo: Macho
 Hembra

Longitud total (LT): 4,27 m
 Tipo de carnada: mague
 Nombres y Apellidos:
 Comentarios:

Enviar planilla completa a:
Gustavo Chiaramonte: gchiaram@retina.ar
Juan Martín Cuevas: juanmartin_cuevas@yahoo.com.br

Proyecto:

Especie: Azul Bacota Cazón / Vitamínico Escalandrun Espinillo / Espineto Gatopardo Mako Martillo Punta Blanca Océanico Zorro

Fecha: 17/11/2014 Hora: 16:10 N° de marca: 0910 Localidad: SAN BIAS Lat/Long: _____

Sexo: Macho Hembra

Longitud total (LT): 1,31 Embarcado: Costas:

Tipo de carnada: ONAGRU

Nombres y Apellidos: Leonidas Gomez

Comentarios:

Enviar planilla completa a:
Gustavo Chiaramonte: gchiaram@retina.ar
Juan Martín Cuevas: juanmartin_cuevas@yahoo.com.br

Proyecto:

Especie: Azul Bacota Cazón / Vitamínico Escalandrun Espinillo / Espineto Gatopardo Mako Martillo Punta Blanca Océanico Zorro

Fecha: 17/11/2014 Hora: 16:30 N° de marca: 0905 Localidad: San Bias Lat/Long: _____

Sexo: Macho Hembra

Longitud total (LT): 1,30 Embarcado: Costas:

Tipo de carnada: mako

Nombres y Apellidos: Leonidas Gomez

Comentarios:

Enviar planilla completa a:
Gustavo Chiaramonte: gchiaram@retina.ar
Juan Martín Cuevas: juanmartin_cuevas@yahoo.com.br

Proyecto:

Especie: Azul Bacota Cazón / Vitamínico Escalandrun Espinillo / Espineto Gatopardo Mako Martillo Punta Blanca Océanico Zorro

Fecha: 27-12-13 Hora: 17:50 N° de marca: 1972 Localidad: FARO QUEBRANDI Lat/Long: _____

Sexo: Macho Hembra

Longitud total (LT): 1,16 Embarcado: Costas:

Tipo de carnada: LISA ENTERA

Nombres y Apellidos: DANIEL FRANCISCO LALIA

Comentarios:

Enviar planilla completa a:
Gustavo Chiaramonte: gchiaram@retina.ar
Juan Martín Cuevas: juanmartin_cuevas@yahoo.com.br

Proyecto:

Especie: Azul Bacota Cazón / Vitamínico Escalandrun Espinillo / Espineto Gatopardo Mako Martillo Punta Blanca Océanico Zorro

Fecha: 27-12-13 Hora: 17:00 N° de marca: 1971 Localidad: FARO QUEBRANDI Lat/Long: _____

Sexo: Macho Hembra

Longitud total (LT): 1,18 Embarcado: Costas:

Tipo de carnada: LISA ENTERA

Nombres y Apellidos: DANIEL FRANCISCO LALIA

Comentarios:

Enviar planilla completa a:
Gustavo Chiaramonte: gchiaram@retina.ar
Juan Martín Cuevas: juanmartin_cuevas@yahoo.com.br

Proyecto:

Especie: Azul Bacota Cazón / Vitamínico Escalandrun Espinillo / Espineto Gatopardo Mako Martillo Punta Blanca Océanico Zorro

Fecha: 27 NOV Hora: 14:54 N° de marca: 1129 Localidad: BAHIA SAN BLAS Lat/Long: 40°21'58" S 062°06'40" W

Sexo: Macho Hembra

Longitud total (LT): 1,28 Embarcado: Costas:

Tipo de carnada: PEJERREY

Nombres y Apellidos: FAUVA ARIEL LUCAS

Comentarios: NORMAL

Enviar planilla completa a:
Gustavo Chiaramonte: gchiaram@retina.ar
Juan Martín Cuevas: juanmartin_cuevas@yahoo.com.br

Proyecto:

Especie: Azul Bacota Cazón / Vitamínico Escalandrun Espinillo / Espineto Gatopardo Mako Martillo Punta Blanca Océanico Zorro

Fecha: 07/12/2015 Hora: 13:17 N° de marca: 1180 Localidad: BAHIA SAN BLAS Lat/Long: 40°21'61" S 062°06'44" W

Sexo: Macho Hembra

Longitud total (LT): _____ Embarcado: Costas:

Tipo de carnada: CABALLA

Nombres y Apellidos: FAUVA ARIEL LUCAS

Comentarios: NINGUNO

Enviar planilla completa a:
Gustavo Chiaramonte: gchiaram@retina.ar
Juan Martín Cuevas: juanmartin_cuevas@yahoo.com.br

Proyecto:

Especie: Azul Bacota Cazón / Vitamínico Escalandrun Espinillo / Espineto Gatopardo Mako Martillo Punta Blanca Océanico Zorro

Fecha: 27 NOV Hora: 14:28 N° de marca: 1141 Localidad: BAHIA SAN BLAS Lat/Long: 40°21'58" S 062°06'47" W

Sexo: Macho Hembra

Longitud total (LT): 1,44 Embarcado: Costas:

Tipo de carnada: CABALLA

Nombres y Apellidos: FAUVA ARIEL LUCAS

Comentarios: TIENE UN CORTE EN EL COSTA XO IZQUIERDO

Enviar planilla completa a:
Gustavo Chiaramonte: gchiaram@retina.ar
Juan Martín Cuevas: juanmartin_cuevas@yahoo.com.br

Proyecto:

Especie: Azul Bacota Cazón / Vitamínico Escalandrun Espinillo / Espineto Gatopardo Mako Martillo Punta Blanca Océanico Zorro

Fecha: 07-03-14 Hora: 18:30hs N° de marca: 1974 Localidad: FARO QUEBRANDI Lat/Long: _____

Sexo: Macho Hembra

Longitud total (LT): 0,72 cm Embarcado: Costas:

Tipo de carnada: ANCHOITA

Nombres y Apellidos: DANIEL FRANCISCO LALIA

Comentarios:

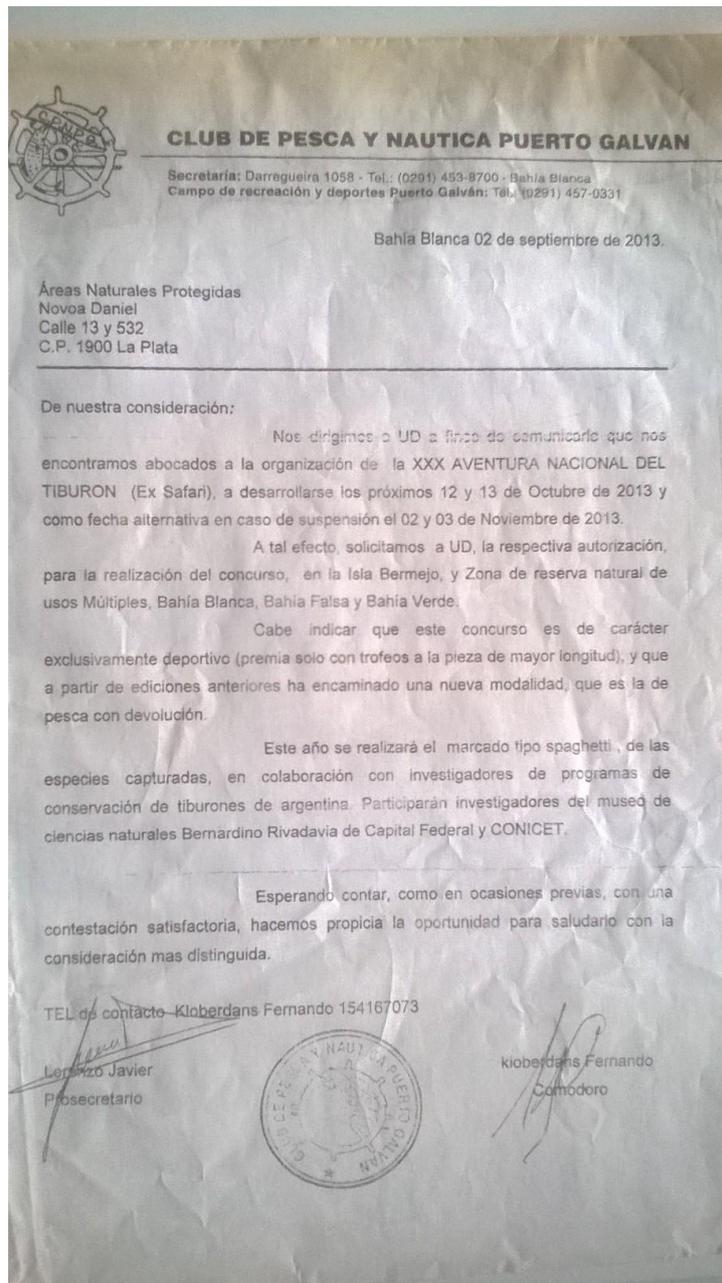
List of anglers trained during the project.

N°	Name	Surname	City	Tagging node
1	Lucas	Gavilán	Bahía Blanca	Bahía Blanca MPA
2	Leandro	Gamero	Bahía Blanca	Bahía Blanca MPA
3	Ruben	Gamero	Bahía Blanca	Bahía Blanca MPA
4	Gastón	Cerda	Bahía Blanca	Bahía Blanca MPA
5	Carlos	De la torre	Bahía Blanca	Bahía Blanca MPA
6	Fernando	Garcia Herranz	Bahía Blanca	Bahía Blanca MPA
7	Carlos	Re	Bahía Blanca	Bahía Blanca MPA
8	Sergio	Perez	Bahía Blanca	Bahía Blanca MPA
9	Gustavo	Ruesga	Bahía Blanca	Bahía Blanca MPA
10	Gustavo	Santander	Bahía Blanca	Bahía Blanca MPA
11	Fernando	Santander	Bahía Blanca	Bahía Blanca MPA
12	Emiliano	Arrua	Bahía Blanca	Bahía Blanca MPA
13	Adrian	Martinez	Bahía Blanca	Bahía Blanca MPA
14	Juan	Cerella	Bahía Blanca	Bahía Blanca MPA
15	Gustavo	Segui	Bahía Blanca	Bahía Blanca MPA
16	Néstor	Somoza	Bahía Blanca	Bahía Blanca MPA
17	Norberto	Binaghi	Bahía Blanca	Bahía Blanca MPA
18	Julio	Truzzi	Bahía Blanca	Bahía Blanca MPA
19	Fernando	Kloberdans	Bahía Blanca	Bahía Blanca MPA
20	Fernando	Garcia Herranz	Bahía Blanca	Bahía Blanca MPA
21	Carlos	Pozobón	San Blás	Bahía San Blas MPA
22	Gustavo	Carranza	San Blás	Bahía San Blas MPA
23	Proyecto	Proyecto	San Blás	Bahía San Blas MPA
24	Proyecto	Proyecto	San Blás	Bahía San Blas MPA
25	Luis	Carbone	San Blás	Bahía San Blas MPA
26	Leo	Carbone	San Blás	Bahía San Blas MPA
27	Hugo	Reisvig	San Blás	Bahía San Blas MPA
28	Walter	Ribeiro	San Blás	Bahía San Blas MPA
29	Ariel	Favia	San Blás	Bahía San Blas MPA
30	Nerio	Lorenzo	San Blás	Bahía San Blas MPA
31	Gabriel	Favia	San Blás	Bahía San Blas MPA
32	Daniel	Colombil	San Blás	Bahía San Blas MPA
33	Claudio	Fillaster	San Blás	Bahía San Blas MPA
34	Marcelo	Molteni	San Blás	Bahía San Blas MPA
35	Daniel	Vicente	Pehuencó	Pehuencó
36	Martin	Dermit	Pehuencó	Pehuencó
37	Santiago	Dermit	Pehuencó	Pehuencó
38	Eduardo	Urriza	Viedma	Viedma
39	Sebastián	Echarren	Viedma	Viedma
40	Agustín	Sanchez	San Antonio Este	San Antonio Este
41	David	Dau	Mar del Plata	Mar del Plata
42	Miguel	Vinciguerra	Mar del Plata	Mar del Plata
43	Fabián	Mateos	Mar del Plata	Mar del Plata

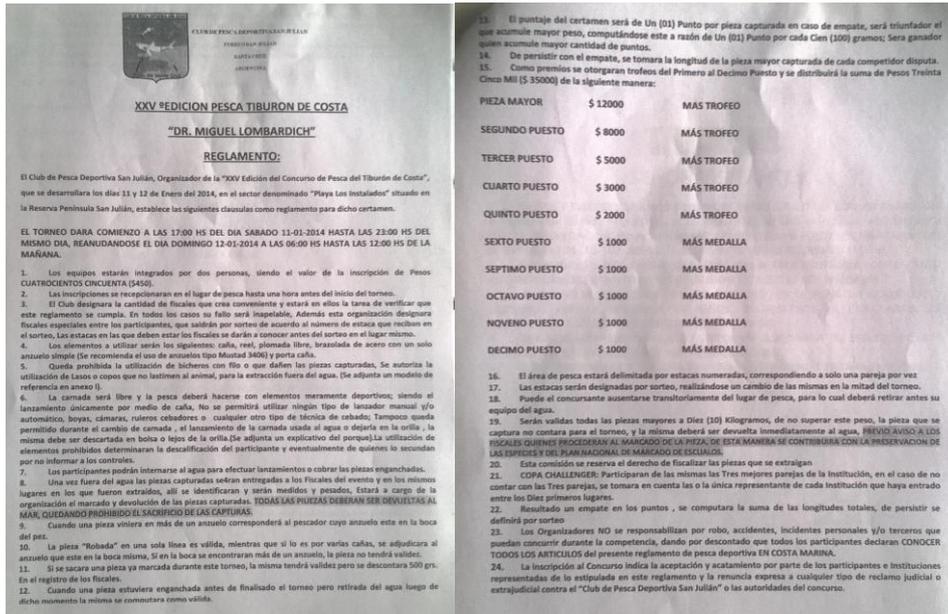
44	Fabián	Castellano	Mar del Plata	Mar del Plata
45	Julio	Rolón	Mar del Plata	Mar del Plata
46	Matías	Diz	Mar del Plata	Mar del Plata
47	Eduardo	Cañueto	Santa Clara del Mar	Santa Clara del Mar/ Mar de Cobo
48	Fabián	Maneiro	Mar del Plata	Mar del Plata
49	Leandro	Martínez	Buenos Aires	Mar del Plata
50	Nicolás	García	Mar del Plata	Mar del Plata
51	Enzo	Cáceres	San Julián	Península de San Julián MPA
52	Carlos	Ortega	San Julián	Península de San Julián MPA
53	Boris	Haro	San Julián	Península de San Julián MPA
54	Mario	Pereyra	San Julián	Península de San Julián MPA
55	Néstor	Ortega	San Julián	Península de San Julián MPA
56	Matías	Lecunce	San Julián	Península de San Julián MPA
57	Pablo	Pacheco	San Julián	Península de San Julián MPA
58	Martín	Lecunce	San Julián	Península de San Julián MPA
59	Diego	Eiras	San Julián	Península de San Julián MPA
60	Daniel	Sampayo	Puerto Deseado	Ría Deseado MPA
61	Adrián	Bolzoni	Puerto Deseado	Ría Deseado MPA
62	Pablo	Gelos	Puerto Deseado	Ría Deseado MPA
63	Miguel	Vila	Puerto Deseado	Ría Deseado MPA
64	Rizzo	Pablo	Mar Chiquita	Mar Chiquita
65	Ros	Luis	Mar Chiquita	Mar Chiquita
66	Díaz	Martín	Mar Chiquita	Mar Chiquita
67	Meza	Gerónimo	Mar Chiquita	Mar Chiquita
68	Leonardo	Casada	Necochea	Necochea
69	Ricardo	Koellner	Villa Gesell	Faro Querandí
70	Sebastián	Jaime	Ayacucho	Faro Querandí
71	Ignacio	Robles	Ayacucho	Faro Querandí
72	Lucio	Esteberena	Ayacucho	Faro Querandí
73	Emilio	Burgueño	Ayacucho	Faro Querandí
74	Marina	Basanta	Ayacucho	Faro Querandí
75	Juan José	Cardenas	Benito Juarez	Faro Querandí
76	Claudio	Viale	Benito Juarez	Faro Querandí
77	Daniel	Lalia	Buenos Aires	Faro Querandí
78	Mauro	Dura	Mar del Plata	Faro Querandí
79	Pablo	Battistella	Buenos Aires	Faro Querandí
80	Norberto	Baranzelli	Buenos Aires	Faro Querandí
81	Hernán	Díaz	San Clemente	Faro Querandí
82	Cristián	Manfrini	San Clemente	Faro Querandí
83	Franco	Nicolo	San Clemente	Faro Querandí
84	Pablo	Adobbati	Balcarce	Faro Querandí
85	Matías	Ortman	Buenos Aires	Faro Querandí
86	Gabriel	Gomez	Buenos Aires	Faro Querandí
87	Mariano	Durruty	Buenos Aires	Faro Querandí

88	Ricardo	Chain	Buenos Aires	Faro Querandí
89	Daniel	Rodriguez	Mar del Plata	Faro Querandí
90	Mario	Caruzo	Mar del Plata	Faro Querandí
91	Mauricio	Etchegaray	Mar del Plata	Faro Querandí
92	Sebastián	Alarcón	Mar del Plata	Faro Querandí
93	Daniel	Alarcón	Mar del Plata	Faro Querandí
94	Pablo	Menendez	Mar del Plata	Faro Querandí
95	Cristián	Dalto	Mar del Plata	Faro Querandí
96	Jorge	Yitani	Tres Arroyos	Marisol

Shark fishing tournament regulation celebrated during October 2013 in Bahía Blanca, Falsa y Verde MPA, Buenos Aires.



Shark fishing tournament regulation celebrated during January 2014 in Península San Julián MPA, Buenos Aires.



Shark fishing tournament regulation celebrated during March 2014 in Ría Deseado MPA, Santa Cruz.

REGLAMENTO GENERAL:

LA EDICIÓN Nº 46 DEL CERTAMEN PATAGONICO DE PESCA DEL TIBURÓN SE REALIZARÁ LOS DIAS SABADO 22 Y DOMINGO 23 DE MARZO DE 2014, EN EL INTERIOR DE LA RIA DESEADO, ÚNICAMENTE CON LA CATEGORÍA DE COSTA. LA MISMA SERÁ ORGANIZADA POR LA COMISIÓN DE PESCA.

ZONA DE PESCA:

SOBRE LA MARGEN NORTE LITORAL MARÍTIMO COMPRENDIDO DESDE PUNTA LA TRAMPA HASTA LA PLAYA DEL SECTOR CONOCIDO COMO LAGUNA SECA O CUEVA DE LAS LAUCHAS.- LIBRE CIRCULACIÓN

EQUIPOS DE PESCA:

- * CAÑA Y CARRETE RECUPERADOR TAMAÑO LIBRE, NYLON DE 0.80 mm COMO MÁXIMO.
- * BAJADA CON CABLE DE ACERO CON UN (1) ANZUELO DE UNA SOLA PUNTA UNIDO AL NYLON.
- EL ANZUELO SE ENTREGARÁ POR LA COMISIÓN DE PESCA (MUSTAD 1406 12 (0) AQUELLA PAREJA QUE NO LO UTILICE QUEDARÁ AUTOMÁTICAMENTE ELIMINADA DEL CERTAMEN.-
- * CINTA MÉTRICA P/CONTROL DE PIEZAS.
- * EL EQUIPO DE PESCA SERÁ CONTROLADO ANTES Y DURANTE EL PERÍODO DE PESCA.
- * CARNADA LIBRE

PROHIBICIONES

- USAR LANZADOR AUTOMÁTICO.
- PESCAR ANTES O FINALIZADO EL CERTÁMEN.
- MOLESTAR A OTROS PESCADORES EN SU POSICIÓN DE PESCA.
- PESCAR FUERA DE LOS LÍMITES DE LAS ZONAS ESTABLECIDAS.
- UTILIZACIÓN DE BICHERO O ELEMENTOS CON PUNTA QUE LASTIMEN LA PIEZA A COBRAR. PARA ELLO SE DEBERÁ UTILIZAR LAZO O SIMILAR.

PROTESTAS:

LOS RECLAMOS O DENUNCIAS POR HECHOS OCURRIDOS DURANTE EL DESARROLLO DEL CERTÁMEN PODRÁN SER PRESENTADOS ANTE UN FISCAL EN EL LUGAR. O HASTA UN PLAZO DE 30 MINUTOS DE FINALIZADO EL CONCURSO. EL FISCAL TOMARÁ NOTA Y HARÁ FIRMAR A LOS INTERESADOS/S CON ACLARACIÓN Y D.N.I. ELEVÁNDOLO AL FISCAL GENERAL QUIEN RESOLVERÁ Y DECIDIRÁ LAS SANCIONES QUE MEREZCA. SIN CUMPLIMENTAR ESTOS REQUISITOS NO SE ACEPTARÁN RECLAMOS.-

MEDIDA DE LAS PIEZAS:

ESTE CERTAMEN SERÁ DE PESCA CON DEVOLUCIÓN. AQUELLA PAREJA QUE NO DEVUELVA EL TIBURÓN QUEDARÁ AUTOMÁTICAMENTE DESCALIFICADA. SOLO SERÁN VÁLIDAS PIEZAS COBRADAS PERTENECIENTES A LA ESPECIE TIBURÓN GATOPARDO LAS CUALES SERÁN MEDIDADAS POR LOS FISCALES EN LA ZONA DE PESCA. SE ANOTARÁ EN UNA PLANILLA LA CUAL ESTARÁ FIRMADA POR LA PAREJA Y EL FISCAL CORROBORANDO LA LONGITUD DE LA MISMA. SE DECLARARÁ GANADOR DEL CERTÁMEN A LA PAREJA QUE OBTENGA LA PIEZA DE MAYOR LONGITUD, EN CASO DE EMPATE, SE DECIDIRÁ DE COMÚN ACUERDO ENTRE LAS PAREJAS SI DIVIDEN EL PREMIO O SI LO SORTEAN

CONDICIONES GENERALES

EL ACTO DE ABONAR LA INSCRIPCIÓN DEL CERTÁMEN DE PESCA DEL TIBURÓN, IMPLICA CONOCER Y ACEPTAR LAS NORMAS DEL PRESENTE REGLAMENTO. LA COMISIÓN ORGANIZADORA ESTA FACULTADA PARA RESOLVER CUALQUIER CIRCUNSTANCIA QUE NO ESTE PREVISTA EN ESTE REGLAMENTO. LA ORGANIZACIÓN SE RESERVA EL DERECHO DE PUBLICAR FOTOS Y/O FILMACIONES DEL EVENTO, GANADORES DE LOS PREMIOS EN CUALQUIER MEDIO DE DIFUSIÓN DEL PAÍS. LA ORGANIZACIÓN DEL EVENTO NO SE RESPONSABILIZA POR PÉRDIDA, DAÑOS MATERIALES O PERSONALES QUE PUDIEREN OCURRIR EN PERJUICIO PROPIO O DE TERCEROS Y QUE AFECTEN A LOS PARTICIPANTES DEL CONCURSO. PODRÁN PARTICIPAR A PARTIR DE LOS 15 AÑOS SIEMPRE Y CUANDO TENGAN LA AUTORIZACIÓN DE LOS PADRES.

DESARROLLO

HORARIO DE PESCA:

SABADO 22 DE MARZO : 12 HS A 18 HS
 DOMINGO 23 DE MARZO : 07 HS A 13 HS
 LA PAREJA NO PODRÁ SEPARARSE BAJO NINGÚN CONCEPTO. SE DEBERÁ RESPETAR UNA DISTANCIA DE 10 MTS. ENTRE PAREJAS, CUANDO UN PARTICIPANTE ENGANCHE UNA PIEZA, LAS PAREJAS CERCANAS DEBERÁN RECOGER SUS EQUIPOS PARA NO ENTORPECER EL COBRO DE LA MISMA. LOS FISCALES REALIZARÁN TAREAS DE CONTROL CONTINUAS

Newspapers and magazines

- <http://www.eldia.com/informacion-general/tras-los-enigmas-del-tiburon-cientificos-y-pescadores-se-unen-para-develarlos-53495>
- http://www.lacapitalmdp.com/ver_historico.php?id=256712
- <http://weekend.perfil.com/2014-02-10-16247-preservar-los-tiburones/>
- <http://www.diariopopular.com.ar/notas/183731-la-pesca-devolucion-tiburones-ya-es-una-realidad>

de Ciencia, Tecnología e Innovación
 Producción en el 2017 es uno de esos
 números. Hoy existe una más interesante
 del PIB como nunca antes en este campo.
 Estamos mucho mejor que en los 90, por
 supuesto, y vamos por el buen camino
 tratando a la ciencia y la tecnología como
 ejes de desarrollo del país.

Gustavo: Para un país como el nuestro,
 donde históricamente la economía se ha
 basado en la explotación de la producción
 agropecuaria, el cambio de paradigma
 que implica la creación de un Ministerio
 de Ciencia y Tecnología, sin dudas, es
 un gran paso para cambiar el rumbo. La
 ciencia debe empezar a comprenderse
 desde una perspectiva, no sólo del trabajo
 público para poder obtener un informe
 de CONICET. Por eso creo que el rumbo
 que se está tomando desde el ministerio es
 un signo fresco para el ámbito científico y
 sus datos, volviendo en una diversificación
 del quehacer científico y en cómo las nuevas
 generaciones se van a vincular con la
 ciencia. Y también en cómo la ciencia se
 vincula con la producción y sus áreas,
 que siempre han sido más permeables a
 incorporar ciencia y tecnología que a confluir
 en un desarrollo local. Creo que el principal

del cambio cultural en este campo ha
 comenzado, aunque aún falta mucho camino
 que recorrer para que la ciencia argentina
 deje de ser sólo un Hadeso o un Leleto,
 y pase a ser ciencia concreta en la vida
 cotidiana.

**Para ir terminando, ¿cómo se pueden
 contactar con ustedes maestros becarios?
 ¿Dónde pueden encontrar más
 información sobre los trabajos del proyecto
 de investigación?**

Martín: Los invitamos a entrar y recorrer
 nuestro Facebook, **Consumar Tiburones
 en Argentina**. Allí pueden bajar todo el
 material del proyecto, artículos, diapositas,
 videos, un manual de marcado y ver todas
 nuestras actividades. Nos pueden escribir
 vía face o por correo a german@consumar.com.ar
 y juanmartin@consumar.com.ar

**Muchísimas gracias por entregarnos
 su tiempo, por compartir sus trabajos
 y sobre todo, por abrirnos este espacio
 de divulgación científica. Y a nosotros
 factores, una vez más, recomendamos
 comenzar a pescar y devolver, si es que
 queremos que nuestros hijos y nietos
 también puedan pescar.**



TV programs

- <https://www.youtube.com/watch?v=BXiQmZVIjZU>
- <https://www.youtube.com/watch?v=2oxVo21bpgQ&list=UU-7nNYCFF2aLBJ4C-TKoM2w>
- http://www.pescavision.com.ar/programa.php?programa_id=404

Tagging events recorded during the project









Appendix 4.1 CLP M&E measures

Output	Number	Additional Information
Number of CLP Partner Staff involved in mentoring the Project	0	
Number of species assessments contributed to (E.g. IUCN assessments)	0	
Number of site assessments contributed to (E.g. IBA assessments)	0	
Number of NGOs established	0	
Amount of extra funding leveraged (\$)	12.180	
Number of species discovered/rediscovered	0	
Number of sites designated as important for biodiversity (e.g. IBA/Ramsar designation)	0	
Number of species/sites legally protected for biodiversity	5	The project covered a total of 10 shark species strengthen the current legal protection in Buenos Aires province they already have through a bottom-up approach.
Number of stakeholders actively engaged in species/site conservation management	96	
Number of species/site management plans/strategies developed	0	
Number of stakeholders reached	96	
Examples of stakeholder behaviour change brought about by the project.	-	Not measured.
Examples of policy change brought about by the project	0	
Number of jobs created	0	
Number of academic papers published	0	
Number of conferences where project results have been presented	3	

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Facebook page of the project:

<https://www.facebook.com/pages/Conservar-tiburones-en-Argentina/483726975019917>

Tagging videos uploaded by anglers of the project:

<https://youtu.be/J8CNA5xv2nA>

<https://www.youtube.com/watch?v=qrbaAGiZYV4&feature=youtu.be>

<https://www.youtube.com/watch?v=bP7B10scDZA&feature=youtu.be>

<https://www.youtube.com/watch?v=iRcynt0On1M&list=UU-7nNYCFF2aLBj4C-TKoM2w&index=28>

<https://www.youtube.com/watch?v=nj4yu4yLUGo&index=29&list=UU-7nNYCFF2aLBj4C-TKoM2w>

<https://www.youtube.com/watch?v=iHBIpmcVZxM&list=UU-7nNYCff2aLbj4C-TKoM2w&index=30>

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<https://www.youtube.com/watch?v=i2SFHYZ6SEU>
<https://www.youtube.com/watch?v=RoEK7fVT43M>

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Does not apply.