Project ID: CLP L0242211

Building the Capacity of Local Institutions to lead Seabird Conservation Initiatives in Peru

FINAL REPORT

Host Country: Peru
Site location: Piura

Dates in the field: From January 2012 to May 2013

Institution: Pro Delphinus

Overall Aim: Contribute to seabird conservation in Northern Peru by creating awareness and performing capacity building within the community.

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SECTION 1

SUMMARY

The project 'Building the Capacity of Local Institutions to lead Seabird Conservation Initiatives in Peru' financed by the CLP, aimed to contribute to seabird conservation by empowering the coastal communities in Piura Region to take ownership on local marine conservation issues. During the project we were able to reach the main objectives by training a selected group of key local people who formed a working team. These people gained experience in project planning, data collection, fundraising, press release writing and public presentations amongst others. Later this team became trainers themselves and started reaching local communities along the coast of Piura. They were able to transfer their knowledge to fishermen, teachers and children and even started working in a pilot study to assess seabird bycatch in different fisheries.

Although the project intended to involved members of local governments in this team, the daily tasks of government officers limited their participation. Nevertheless, they contributed to the project mainly by sharing their experience all along and by facilitating the logistics of some of the programmed activities. At the same time, this issue was overcome by involving other local institutions like NGOs and universities, and capable young biologist willing to contribute to seabird conservation.

INTRODUCTION

The Region of Piura, at the north of Peru, has the largest small scale fishery fleet in the country in terms of number of vessels, ports and fishermen. Due to its conditions, this Region is an important foraging ground for a number of species and therefore supports high biodiversity which includes endangered, threatened and vulnerable seabird species. Both, fishery and seabirds interact resulting in high seabird bycatch and mortality.

Despite the progress of inland-ecosystem conservation in Piura Region, little effort has been done so far by local people regarding seabird bycatch issues. Fishing communities are usually difficult to reach and therefore research and conservation efforts are limited. Lack of resources and awareness in the Region are other factors which contribute to the absence of conservation actions.

However, the increased national and international awareness of seabirds in Peru, and the decentralization of the national government have led to a unique opportunity to carry out this project in Piura. It aimed to help Piura's state offices, as well as local institutions and population, to take ownership on these marine conservation matters. In order to do this, a conservation program was established with the cooperation of a working team formed by a selected group of local people who was trained by the project´s coordination team. This group

learnt key skills for research and education that allowed them to reach more local people at each of the organized activities.

Key partners during the project included local institutions such as (i) National University of Piura (UNP), (ii) NGO Nature & Culture International, (iii) NGO Corbidi, (iv) Yachachiq SOLCODE, (v) Dirección de Unidad de Gestión Educativa Local Sechura (UGEL), and (vi) Sub Gerencia Regional del Medio Ambiente. They all contributed to the project by making possible the execution of the programmed workshops (eg. auditorium use, invited speakers) and/or by sending a representative to participate in some activities organized by the project. Last but not least, other important partners who collaborate during the implementation of the pilot study were the fishermen at Constante, Paita and Mancora. They allowed us to join them in their fishing journeys as on board observers in order to assess seabird bycatch in the different fisheries of Piura Region.

Image 1. Map of the area: Piura Region showing the three sites selected for the pilot studies to assess seabird bycatch in different fisheries.

PROJECT MEMBERS

1. Natalia Ortiz Escobar
Age: 28 years old
Qualifications: MSc. Science in Conservation and Biodiversity
Experience: Planning and coordination of conservation projects and research at field, environmental education and community work.

Current occupation: Research assistant
Employer: Pro Delphinus
Main role in the Project: PROJECT LEADER. Manage project and coordinate communication and activities with local partners. Coordinate and conduct training activities. Assist with educational workshops, research and preparation of materials.

2. Joanna Alfaro-Shigueto
Age: 44 years old
Qualifications: PhD Ecology and Conservation
Experience: Bycatch assessment in Peru for more than ten years, education and research projects on marine conservation.
Current occupation: Program officer
Employer: Pro Delphinus
Main role in the Project: Liaison between partners, training, data analysis.

3. Francisco Bernedo
Age: 45 years old
Qualifications: High School Diploma
Experience: Fisheries for more than 15 years, at sea data collector, presentation skills.
Current occupation: Fishermen
Employer: Pro Delphinus
Main role in the Project: Fisherman ambassador, fisheries advisor, workshop and data protocols contributor.

4. Tania Suarez
Age: 27 years old
Qualifications: Veterinarian
Experience: Wildlife medicine and handling, field work, research, work with fishing communities.
Current occupation: Research assistant
Employer: Pro Delphinus
Main role in the Project: Assist with workshops, outreach events, communication with fishermen and data collection.

5. Jeffrey Mangel
Age: 41 years old
Qualifications: PhD Biological Science
Experience: Knowledge of spatial analysis and statistical tools, background in seabird biology and conservation and fisheries bycatch.
Current occupation: Scientific advisor
Employer: Pro Delphinus
Main role in the Project: Assist with project coordination, data analysis, management and dissemination.

6. Nadia Balducci
Age: 27 years old
Qualifications: Biologist
Experience: Environmental education, field work, research and work with fishing communities.
Current occupation: Research assistant
Employer: Pro Delphinus
Main role in the Project: Assist with workshops, outreach events, communication and data collection.

SECTION 2

AIM AND OBJECTIVES

The aim of this project was to raise awareness of threats to seabirds in Piura Region and transfer experience in marine conservation at local level to address this issues. In order to achieve this, three main objectives were raised: (i) the establishment of a state-level conservation program in Piura Region with the participation of local NGOs and state government employees and housed at the Piura offices of the NGO NCI; (ii) perform capacity building of the human resources running the state level seabird conservation program; (iii) increase awareness within the community (fishermen, fishing families, local authorities, university and school students in particular) of seabird conservation.

In the first objective, despite of counting with the participation of the mentioned institutions, their participation was almost limited to their contribution to make possible the execution of the programmed workshops (eg. auditorium use, invited speakers) and/or by sending a representative to participate in some activities of the project. Therefore the conservation program established was run mainly by young and future biologists, who nevertheless, did a great job during the project execution.

METHODOLOGY

After selecting the team members to form the conservation program, two primary working categories were established – education and research – which main methods are described below. These methods were selected in order to provide program participants well-rounded training and hands-on experience to guarantee their future involvement in these tasks.

Education:

1. Seven local people were trained to conduct marine conservation workshops. This included public speaking, press release writing, logistic coordination, education in marine and seabird conservation and material design, local artisanal fisheries dynamics and characteristics.

2. Education materials were design according to the characteristics of the different targeted audiences. These were used and distributed in the Region to promote this specific project and seabird conservation. The institutional support from the Regional Government of Piura for the educational material was searched and achieved.

3. Pro Delphinus' contacts within the small scale fishing community were transfer to Piura´s team in order to build strong connections and good relations with stakeholders within the fishing community for future projects.

4. A series of workshops were done in fishing ports in Piura in collaboration with Piura's team members and local institutions. These discussed subjects like seabird biology, identification, importance, threats and conservation. They were given to different audiences (eg. fishermen, technical fishing schools, teachers and children) but language and dynamics were adjusted accordingly.

5. Finally, Piura's team was also trained in project writing and fundraising in order to promote their long-term involvement in seabird conservation.

Research:

There were two important aspects in the project's research component. First, the main objective was to train Piura's team members in seabird identification, fishing methods, research design and seabird and bycatch monitoring. Second, these methods were putted into practice through a pilot on board observer program in three local ports, and through the constant work with participating fishermen.

Specific methods included:
1. Design of fishery and seabird distribution and bycatch monitoring protocols – including vessel characteristics, observed bycatch by vessel type, location of bycatch, bycatch species and fate, seabird count and fishing effort characteristics, etc. (focusing on small scale gillnet, purse seine and longline vessels).

2. Training of team members in project implementation, monitoring and data management, analysis and reporting - including design of datasheets and the use of computer spread sheets and databases for data storage and management.

3. Establishment of a pilot on board observer project on the small scale fishing vessels mentioned above at Constante, Paita and Mancora port with Piura's team members and data gathering on seabirds and fishery interactions.

4. Training fishermen identified during workshops who were interested in participating, to monitor their own seabird interactions and counts of seabird abundance during gear sets and hauls.

Data obtained during these studies was broadly analysed due to the little information obtained statistically speaking. More fishing sets need to be assessed in order to obtained robust results.

OUTPUTS AND RESULTS

The project's primary output was the establishment of the Piura's team, with local members that contributed to strength seabird conservation in Northern Peru. This output was directly related to Objective 1 of the project.

The team was formed by seven members that received 14 training sessions from September 2011 to June 2012 on subjects such as fundraising, press release writing, project planning, public presentations, etc. They later start practicing hands-on data collection in three different fisheries at three ports in Piura. All these training related to Objective 2 of the project.

The other obtained outputs were the result of the team's participation along the project and they are divided into two main sections to simplify their explanation.

Education:

In relation to increase awareness within the community on seabird conservation we were able to reach 14 schools, 32 teachers, 594 children and young and 142 fishermen in a total of 47 workshops, talks and other activities done during the project.

Group of pictures 1. Workshops on seabird conservation.

We also presented two posters related to the work done in Piura during the Congreso de Ciencias del Mar (CONCIMAR), an international meeting that took place in Lima.

Picture 1: Poster presentation at CONCIMAR.

We were also able to reach other audiences by publishing eight press notes, and broadcast two radio interviews and two TV interviews to generate publicity for this project.

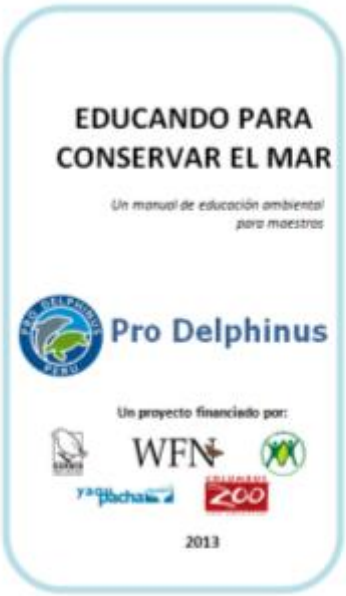
Group of pictures 2: Examples of articles related to the project.

We also produced different educational material that included a seabird identification pocket guide, a seabird safe release guide and three animal paper models.

Group of pictures 3: Materials design during the project.

Finally we elaborate two guides for Regional distribution which included an Educational Guide, which is a tool that will allow teachers to capture their student's interest in conservation issues; and a complete seabird identification guide from the north of Peru which presents their main characteristics, distribution patterns, threats and conservation strategies.

Picture 2: Educational Guide.



Research:

In terms of data gathering, sets done in three ports of Piura Region to assess the impact of different fisheries in seabird species were done as pilot studies and more information needs to be collected in order to have more accurate results for the analysis.

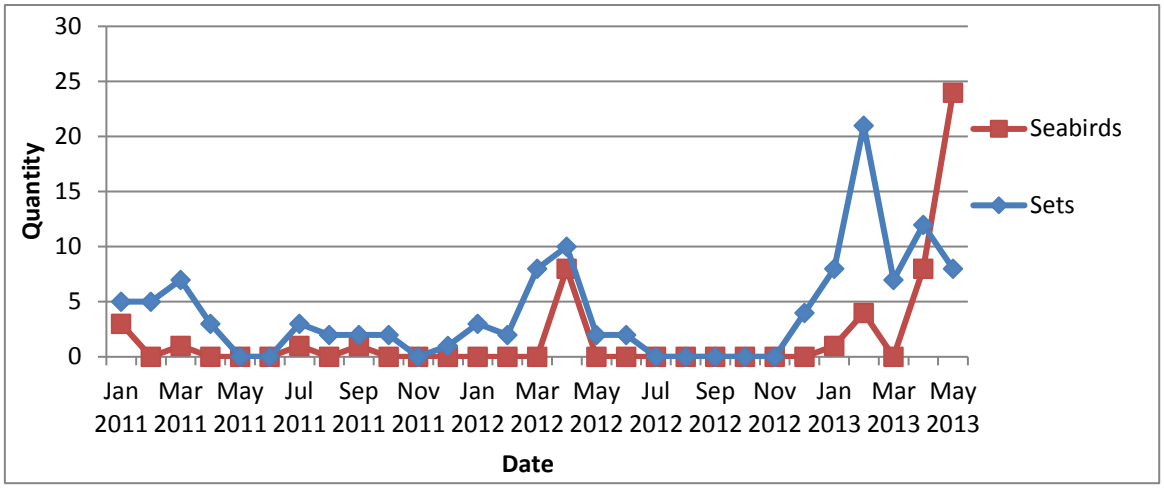
On one hand, Piura's team was able to do 66 sets in Piura Region. These sets include 7 fishing trips in longline fisheries in Mancora, 10 in purse seines in Paita and 49 in gillnets in Constante. On the other hand, their data on longline fishery was complemented by 9 sets done by Pro Delphinus and 293 done by seven fishermen from April 2012 to May 2013 in Mancora after they were trained; while 68 sets were recorded in Constante by Pro Delphinus. At the moment, no seabirds were caught in longlines and purse seines, but 50 cormorants and 1 blue-footed bobby were captured in gillnet fisheries.

Table 1 shows the total number of sets done per gear type from January 2011 to May 2013. It is clear that fishermen contribution allows a greater data collection, but these needs to be constantly supervise in order to assure the information is recorded appropriately. Data collection on board of purse seines started relatively recently and has not been regularly done due to fishing bans.

Table 1. Summary of number of sets done for each type of fishery during the project period.

Port	Gear	Trip date		No. of Fishing trips	No. of Sets	No. of seabirds caught	Species	State
		Start	End					
Constante	Gillnet	15/01/2011	20/05/2013	186	117	51	50 Guanay cormorant, 1 Blue footed booby	Dead
Paita	Purse seine	27/11/2012	23/04/2013	8	10	0	-	-
Mancora	Longline	21/02/2012	31/05/2013	53	309	0	-	-
Total				**247**	**436**	**51**	**-**	**-**

In relation to seabird interaction Graph 1 shows the number of sets recorded per month during the project using gillnets and the number seabird bycatch during those sets. It is clear that more fishing trips have been recorded during the South hemisphere's summer and, at least for the last two years, more seabirds have been entangled during fall. Nevertheless, it is necessary to collect data systematically throughout the year and to do further analysis that include fishing effort before stating that seabird bycatch is influenced by season.



Graph 1. Number of sets recorded using Gillnets and seabird bycatch per month

Additionally, materials such as datasheets (e.g. fishing gear characteristics and seabird bycatch) for data collection, and the final report on the pilot study presented to the local stakeholders, are some of the outputs obtained for this section and that contributed to complete the activities planned under Objective 1.

These materials and opportunities to join and exchange with different audiences, as well as the results of the pilot study presented locally, allowed us to share our knowledge and experience on seabird conservation and to enthrall more people to get involved in this task. With all this, Objective 3 was also achieved.

ACHIEVEMENTS AND IMPACTS

As one of the main achievements of the project is the involvement of the seven Piura team members throughout these years. From those, six have continued to participate in seabird related conservation projects. For example, two of them are now working fulltime in Pro Delphinus to run the northern branch of the organization, one is a consultant in the Regional Government and other works for CORBIDI-Piura. Additionally, involving four local NGOs, two government agencies and one educational institution is considered amongst other important achievement of the project. This increased interest has resulted in the recent establishment of the Marine Protected Area Isla Foca close to the port of Paita. Most of the institutions and people that participated in this project pushed to the designation of the area.

Other achievements include the accomplishment of the report on seabird species in the area and the Educational Guide design mainly for teachers. Both have the support of the Dirección Regional de Piura and copyrights which ensures its value. We were also able to create our own seabird images which will also facilitate the production of more specific guides in the future in order to aware more people of seabird conservation issues.

Group of pictures 4: Examples of seabird images used in guides.

Waved Albatross

Peruvian Pelican

Humboldt Penguin

Another achievement was to have left initiated the work done with teachers in Paita organized by their UGEL, similar to the work done in Sechura during the project. Teachers in the district of Paita will be able to participate in training workshops were they will learn about marine and coastal environments in order to transfer the lessons learned to their students. With this and the activities done during the project, a wider number of local people is getting to know the ocean and its benefits, and is becoming aware of the threats that it faces and what should be their conservation actions to mitigate them.

Finally, in relation to the main fieldwork achievements, the project has allowed us to involve local fishermen in data collection, as well as young scientists that have now the tools to continue these tasks. It is clear that more data is required at each port an each fishery in order to have broader analysis, but this has allowed making an important start for these three fisheries at this Region.

SECTION 3

CONCLUSION

The project has accomplished its main aim of contributing to seabird conservation in Northern Peru. Indirectly, by performing a series of workshops and diverse activities was able to reach different audiences along the Region passing on Pro Delphinus experience in marine and seabird conservation. Furthermore, it was able to grouped local representatives who were trained to guarantee conservation measures will continue to take place in Piura. These local members participated throughout the execution of this project gaining experience in education, outreach and research. They were able to form networks to continue working for seabird conservation and put in practice lessons learned during these years.

Other important audience that was reached was fishermen. They were trained to identify seabird species, collect data onboard and safely handle marine animals captured incidentally, amongst others. They were also introduced to mitigation measures to reduce bycatch and some are being applied for other marine animals in the Region. Pilot studies carried out during this project did not show important numbers of seabird bycatch, but additional information was obtained from the different fisheries that were being assessed. Data collected on fishing locations, fishing effort and observation of species that interact the most with gears, also contribute to understand this activity and the differences between gears.

Therefore, while more people in the community are getting aware of the issues related to seabirds, more information is being obtained from fieldwork. This information will allow generating more mitigation measures according to the fisheries and the species that interact with them.

PROBLEMS ENCOUNTERED AND LESSONS LEARNT

We consider that we were able to perform every activity as planned. The work with different institutions required more effort than expected, as it is never easy modify the routine and schedule that each one has. Several coordination meetings were required before executing the activities *per se*, but after getting their attention they were interested and participated all along.

In relation to the above, the main problem encountered was at the beginning of the project, when it was necessary to have the commitment of government agencies. These entities absorb their staff in bureaucracy leaving them little space to participate in projects like the one proposed. However, we were able to make key alliances, mostly with the UGEL which allowed us to reach an important number of teachers in Sechura. We also had two representatives of the Sub Gerencia Regional del Medio Ambiente who participated in several activities, but most important was the commitment of one of the team member who was doing her pre-

professional practices and even after finished she kept good relations with the institution which will help her for further related projects.

Difficulty to involve government agencies was also overcome by involving the UNP and its students. This audience has the will to participate in fieldwork and outreaching activities, which are not necessarily provided by the university. Similarly, they sometimes have not received the necessary skills in seabird oriented research or conservation. Therefore, we learned that an opportunity as the one provided by this project is appealing for them and the reception is greater than with government agencies. Nowadays, most of the ones who were part of the Piura team for this project are also involved in other seabird related projects, at local and national NGOs or as independent researchers.

Amongst the activities that went better we can include the work done with fishermen and children, who were more keen to the subjects we wanted to share. This interest built in them might have been the result of the wider experience Pro Delphinus has with these audiences, as it was easier to communicate with them and design materials to gain their attention. We also had a great acceptance of fishermen to carry out the pilot studies. This showed their disposition to contribute to science and seabird conservation.

Continuous training during these years allowed us to bond with the different audiences. The methods used for education and research allowed us to get to a broader range of people within the community. They were all able to experience the passion that we have for marine environments and were therefore motivated to follow it. At the same time, we were able to learn from their experiences and were able to incorporate their suggestion to our work.

To mention some examples of these experiences we can mention, that by grouping teachers through the UGEL, we were able to get to more schools and children than if we had gone school by school. This also allowed us to know more about formal education and we were able to share ideas with teachers to prepare adequately the Educational Guide. In relation to research, we were able to assess more ports and fisheries that initially thought thanks to the contacts done at workshops. During these sessions we were able to know more fishermen interested in seabird conservation and were able to involve them in the project.

IN THE FUTURE

Amongst the future work that we will be doing will be to replicate this project in other regions. Our gained experience will be shared with other stakeholders and other groups of local people will be trained so they can address problems related to seabird and other marine animals in their own communities.

As mentioned before, the work done with teachers in Sechura will be replicated in Paita in order to get to more people. The Educational Guide will continue to be used and distributed during this phase.

Other plans are to continue collecting data onboard different fisheries and to implement mitigation measures according to the results obtained. This will also be done for sea turtles, marine mammals and other endangered species found in the Region. Similarly, we expect that the team trained in Piura will continue to carry their own research and educational activities in seabird conservation in the Region to generate even more information to address marine issues.

SECTION 4

APPENDICES

Appendix I

Account of income and expenditure (See attached Excel file at mail).

Appendix II

Raw field data.

Trip code	Trip date		Port	Gear	No. of Sets	No. of seabirds caught	Species	State
	Start	End						
1	15/01/2011	16/01/2011	Constante	Gillnet	1	1	Guanay cormorant	Dead
2	17/01/2011	18/01/2011	Constante	Gillnet	1	0		
3	18/01/2011	19/01/2011	Constante	Gillnet	1	0		
4	21/01/2011	22/01/2011	Constante	Gillnet	1	1	Guanay cormorant	Dead
5	26/01/2011	27/01/2011	Constante	Gillnet	1	1	Guanay cormorant	Dead
6	07/02/2011	08/02/2011	Constante	Gillnet	1	0		
7	08/02/2011	10/02/2011	Constante	Gillnet	2	0		
8	10/02/2011	11/02/2011	Constante	Gillnet	1	0		
9	13/02/2011	14/02/2011	Constante	Gillnet	1	0		
10	03/03/2011	07/03/2011	Constante	Gillnet	4	0		
11	15/03/2011	18/03/2011	Constante	Gillnet	3	1	Guanay cormorant	Dead
12	26/04/2011	29/04/2011	Constante	Gillnet	3	0		
13	18/07/2011	21/07/2011	Constante	Gillnet	3	1	Guanay cormorant	Dead
14	22/08/2011	24/08/2011	Constante	Gillnet	2	0		
15	11/09/2011	13/09/2011	Constante	Gillnet	2	1	Guanay cormorant	Dead
16	03/10/2011	05/10/2011	Constante	Gillnet	2	0		
17	07/12/2011	08/12/2011	Constante	Gillnet	1	0		
18	24/01/2012	27/01/2012	Constante	Gillnet	3	0		
19	01/02/2012	02/02/2012	Constante	Gillnet	1	0		
20	29/02/2012	01/03/2012	Constante	Gillnet	1	0		
21	01/03/2012	02/03/2012	Constante	Gillnet	1	0		
22	02/03/2012	03/03/2012	Constante	Gillnet	1	0		
23	03/03/2012	04/03/2012	Constante	Gillnet	1	0		
24	06/03/2012	07/03/2012	Constante	Gillnet	1	0		
25	08/03/2012	09/03/2012	Constante	Gillnet	1	0		
26	12/03/2012	14/03/2012	Constante	Gillnet	2	0		
27	16/03/2012	17/03/2012	Constante	Gillnet	1	0		

28	11/04/2012	13/04/2012	Constante	Gillnet	2	2	Guanay cormorant	Dead
29	11/04/2012	14/04/2012	Constante	Gillnet	3	1	Guanay cormorant	Dead
30	16/04/2012	19/04/2012	Constante	Gillnet	3	2	Guanay cormorant	Dead
31	17/04/2012	18/04/2012	Constante	Gillnet	1	2	Guanay cormorant	Dead
32	18/04/2012	19/04/2012	Constante	Gillnet	1	1	Guanay cormorant	Dead
33	29/05/2012	30/05/2012	Constante	Gillnet	1	0		
34	30/05/2012	31/05/2012	Constante	Gillnet	1	0		
35	01/06/2012	03/06/2012	Constante	Gillnet	2	0		
36	22/02/2012	22/02/2012	Mancora	Longline	3	0		
37	21/02/2012	21/02/2012	Mancora	Longline	1	0		
38	16/04/2012	16/04/2012	Mancora	Longline	1	0		
39	20/04/2012	20/04/2012	Mancora	Longline	1	0		
40	28/04/2012	28/04/2012	Mancora	Longline	1	0		
41	15/05/2012	15/05/2012	Mancora	Longline	1	0		
42	22/05/2012	25/05/2012	Mancora	Longline	3	0		
43	24/05/2012	27/05/2012	Mancora	Longline	3	0		
44	09/06/2012	12/06/2012	Mancora	Longline	3	0		
45	14/06/2012	14/06/2012	Mancora	Longline	1	0		
46	15/06/2012	16/06/2012	Mancora	Longline	1	0		
47	15/06/2012	18/06/2012	Mancora	Longline	3	0		
48	20/06/2012	21/06/2012	Mancora	Longline	1	0		
49	21/06/2012	21/06/2012	Mancora	Longline	1	0		
50	20/06/2012	23/06/2012	Mancora	Longline	3	0		
51	24/06/2012	24/06/2012	Mancora	Longline	1	0		
52	25/06/2012	28/06/2012	Mancora	Longline	3	0		
53	27/06/2012	28/06/2012	Mancora	Longline	1	0		
54	04/07/2012	06/07/2012	Mancora	Longline	2	0		
55	07/07/2012	10/07/2012	Mancora	Longline	3	0		
56	20/07/2012	21/07/2012	Mancora	Longline	2	0		
57	22/07/2012	25/07/2012	Mancora	Longline	3	0		
58	29/07/2012	01/08/2012	Mancora	Longline	3	0		
59	02/08/2012	04/08/2012	Mancora	Longline	2	0		
60	07/08/2012	10/08/2012	Mancora	Longline	4	0		
61	16/08/2012	16/08/2012	Mancora	Longline	2	0		
62	19/08/2012	20/08/2012	Mancora	Longline	1	0		
63	21/08/2012	24/08/2012	Mancora	Longline	3	0		
64	26/08/2012	28/08/2012	Mancora	Longline	2	0		
65	28/08/2012	30/08/2012	Mancora	Longline	2	0		
66	01/09/2012	04/09/2012	Mancora	Longline	3	0		
67	03/09/2012	04/09/2012	Mancora	Longline	1	0		
68	04/09/2012	06/09/2012	Mancora	Longline	2	0		

69	07/09/2012	08/09/2012	Mancora	Longline	1	0		
70	07/09/2012	10/09/2012	Mancora	Longline	3	0		
71	12/09/2012	14/09/2012	Mancora	Longline	2	0		
72	17/09/2012	19/09/2012	Mancora	Longline	2	0		
73	20/09/2012	22/09/2012	Mancora	Longline	2	0		
74	04/10/2012	05/10/2012	Mancora	Longline	1	0		
75	04/10/2012	06/10/2012	Mancora	Longline	2	0		
76	09/10/2012	11/10/2012	Mancora	Longline	2	0		
77	12/10/2012	14/10/2012	Mancora	Longline	2	0		
78	17/10/2012	19/10/2012	Mancora	Longline	2	0		
79	22/10/2012	24/10/2012	Mancora	Longline	2	0		
80	28/10/2012	30/10/2012	Mancora	Longline	2	0		
81	05/11/2012	07/11/2012	Mancora	Longline	2	0		
82	09/11/2012	10/11/2012	Mancora	Longline	1	0		
83	12/11/2012	14/11/2012	Mancora	Longline	2	0		
84	16/11/2012	18/11/2012	Mancora	Longline	2	0		
85	21/11/2012	23/11/2012	Mancora	Longline	2	0		
86	25/11/2012	27/11/2012	Mancora	Longline	2	0		
87	27/11/2012	27/11/2012	Paita	Purse seine	2	0		
88	28/11/2012	29/11/2012	Mancora	Longline	1	0		
89	13/12/2012	15/12/2012	Constante	Gillnet	2	0		
90	18/12/2012	20/12/2012	Constante	Gillnet	2	0		
91	13/12/2012	15/12/2012	Mancora	Longline	2	0		
92	17/12/2012	17/12/2012	Mancora	Longline	1	0		
93	17/12/2012	19/12/2012	Mancora	Longline	2	0		
94	20/12/2012	22/12/2012	Mancora	Longline	2	0		
95	23/12/2012	24/12/2012	Mancora	Longline	2	0		
96	29/12/2012	31/12/2012	Mancora	Longline	2	0		
97	03/01/2013	08/01/2013	Constante	Gillnet	4	1	Guanay cormorant	Dead
98	07/01/2013	08/01/2013	Constante	Gillnet	1	0		
99	10/01/2013	12/01/2013	Constante	Gillnet	2	0		
100	01/02/2013	01/02/2013	Mancora	Longline	1	0		
101	18/01/2013	18/01/2013	Paita	Purse seine	2	0		
102	22/01/2013	23/01/2013	Constante	Gillnet	1	0		
103	02/02/2013	03/02/2013	Constante	Gillnet	1	0		
104	07/11/2012	07/11/2012	Mancora	Longline	1	0		
105	04/02/2013	13/02/2013	Constante	Gillnet	9	3	1 Blue footed booby and 2 Guanay cormorant	Dead
106	19/02/2012	21/02/2013	Constante	Gillnet	4	0		
107	21/02/2013	23/02/2013	Constante	Gillnet	2	0		
108	14/01/2013	17/01/2013	Mancora	Longline	3	0		
109	25/01/2013	28/01/2013	Mancora	Longline	3	0		

110	19/01/2013	23/01/2013	Mancora	Longline	4	0		
111	17/01/2013	17/01/2013	Mancora	Longline	1	0		
112	18/01/2013	18/01/2013	Mancora	Longline	1	0		
113	19/01/2013	19/01/2013	Mancora	Longline	1	0		
114	14/02/2013	16/02/2013	Mancora	Longline	2	0		
115	20/01/2013	22/01/2013	Mancora	Longline	2	0		
116	30/01/2013	02/02/2013	Mancora	Longline	3	0		
117	31/01/2013	02/02/2013	Mancora	Longline	2	0		
118	05/02/2013	08/02/2013	Mancora	Longline	3	0		
119	06/02/2013	08/02/2013	Mancora	Longline	2	0		
120	11/02/2013	15/02/2013	Mancora	Longline	4	0		
121	12/02/2013	14/02/2013	Mancora	Longline	2	0		
122	22/02/2013	22/02/2013	Mancora	Longline	1	0		
123	28/02/2013	28/02/2013	Mancora	Longline	1	0		
124	01/03/2013	01/03/2013	Mancora	Longline	1	0		
125	12/11/2012	01/12/2012	Mancora	Longline	4	0		
126	25/02/2013	03/03/2013	Constante	Gillnet	5	1	Guanay cormorant	Dead
127	17/12/2012	21/12/2012	Mancora	Longline	4	0		
128	24/10/2012	28/10/2012	Mancora	Longline	4	0		
129	15/01/2013	19/01/2013	Mancora	Longline	4	0		
130	05/03/2013	05/03/2013	Mancora	Longline	1	0		
131	06/03/2013	06/03/2013	Mancora	Longline	1	0		
132	07/03/2013	08/03/2013	Constante	Gillnet	1	0		
133	10/03/2013	16/03/2013	Constante	Gillnet	6	0		
134	03/04/2013	06/04/2013	Constante	Gillnet	3	0		
135	07/03/2013	07/03/2013	Mancora	Longline	1	0		
136	08/03/2013	08/03/2013	Mancora	Longline	1	0		
137	09/03/2013	09/03/2013	Mancora	Longline	1	0		
138	12/03/2013	12/03/2013	Mancora	Longline	1	0		
139	13/03/2013	13/03/2013	Mancora	Longline	1	0		
140	14/03/2013	14/03/2013	Mancora	Longline	1	0		
141	15/03/2013	15/03/2013	Mancora	Longline	1	0		
142	16/03/2013	16/03/2013	Mancora	Longline	1	0		
143	23/02/2013	23/02/2013	Mancora	Longline	1	0		
144	05/03/2013	08/03/2013	Mancora	Longline	3	0		
145	11/03/2013	14/03/2013	Mancora	Longline	3	0		
146	15/03/2013	18/03/2013	Mancora	Longline	3	0		
147	20/03/2013	23/03/2013	Mancora	Longline	3	0		
148	25/03/2013	28/03/2013	Mancora	Longline	3	0		
149	16/03/2013	18/03/2013	Mancora	Longline	2	0		
150	08/03/2013	08/03/2013	Mancora	Longline	1	0		
151	10/03/2013	11/03/2013	Mancora	Longline	2	0		
152	19/03/2013	19/03/2013	Mancora	Longline	1	0		
153	20/03/2013	20/03/2013	Mancora	Longline	1	0		

154	21/03/2013	21/03/2013	Mancora	Longline	1	0		
155	10/04/2013	15/04/2013	Constante	Gillnet	5	0		
156	22/03/2013	22/03/2013	Mancora	Longline	1	0		
157	23/03/2013	23/03/2013	Mancora	Longline	1	0		
158	25/03/2013	25/03/2013	Mancora	Longline	1	0		
159	26/03/2013	26/03/2013	Mancora	Longline	1	0		
160	27/03/2013	27/03/2013	Mancora	Longline	1	0		
161	28/03/2013	28/03/2013	Mancora	Longline	1	0		
162	25/04/2013	29/04/2013	Constante	Gillnet	4	8	Guanay cormorant	Dead
163	03/04/2013	04/04/2013	Paita	Purse seine	1	0		
164	04/04/2013	05/04/2013	Paita	Purse seine	1	0		
165	18/04/2013	19/04/2013	Paita	Purse seine	1	0		
166	19/04/2013	20/04/2013	Paita	Purse seine	1	0		
167	22/04/2013	23/04/2013	Paita	Purse seine	1	0		
168	22/04/2013	23/04/2013	Paita	Purse seine	1	0		
169	14/05/2013	16/05/2013	Constante	Gillnet	2	0		
170	03/04/2013	03/04/2013	Mancora	Longline	1	0		
171	03/04/2013	03/04/2013	Mancora	Longline	1	0		
172	04/04/2013	04/04/2013	Mancora	Longline	1	0		
173	04/04/2013	04/04/2013	Mancora	Longline	1	0		
174	05/04/2013	05/04/2013	Mancora	Longline	1	0		
175	05/04/2013	05/04/2013	Mancora	Longline	1	0		
176	06/04/2013	06/04/2013	Mancora	Longline	1	0		
177	06/04/2013	06/04/2013	Mancora	Longline	1	0		
178	09/04/2013	09/04/2013	Mancora	Longline	1	0		
179	10/04/2013	10/04/2013	Mancora	Longline	1	0		
180	11/04/2013	12/04/2013	Mancora	Longline	1	0		
181	12/04/2013	12/04/2013	Mancora	Longline	1	0		
182	13/04/2013	13/04/2013	Mancora	Longline	1	0		
183	16/04/2013	16/04/2013	Mancora	Longline	1	0		
184	17/04/2013	17/04/2013	Mancora	Longline	1	0		
185	18/04/2013	18/04/2013	Mancora	Longline	1	0		
186	19/04/2013	19/04/2013	Mancora	Longline	1	0		
187	14/05/2013	20/05/2013	Constante	Gillnet	6	24	Guanay cormorant	Dead
188	01/04/2013	04/04/2013	Mancora	Longline	3	0		
189	01/04/2013	03/04/2013	Mancora	Longline	2	0		
190	04/04/2013	06/04/2013	Mancora	Longline	2	0		
191	05/04/2013	08/04/2013	Mancora	Longline	3	0		
192	10/04/2013	13/04/2013	Mancora	Longline	3	0		
193	15/04/2013	16/04/2013	Mancora	Longline	1	0		
194	17/04/2013	18/04/2013	Mancora	Longline	1	0		
195	18/04/2013	19/04/2013	Mancora	Longline	1	0		
196	22/04/2013	23/04/2013	Mancora	Longline	1	0		

197	24/04/2013	25/04/2013	Mancora	Longline	1	0		
198	25/04/2013	26/04/2013	Mancora	Longline	1	0		
199	25/04/2013	26/04/2013	Mancora	Longline	1	0		
200	26/04/2013	27/04/2013	Mancora	Longline	1	0		
201	26/04/2013	27/04/2013	Mancora	Longline	1	0		
202	26/04/2013	27/04/2013	Mancora	Longline	1	0		
203	30/04/2013	01/05/2013	Mancora	Longline	1	0		
204	01/05/2013	02/05/2013	Mancora	Longline	1	0		
205	01/05/2013	02/05/2013	Mancora	Longline	1	0		
206	02/05/2013	03/05/2013	Mancora	Longline	1	0		
207	02/05/2013	03/05/2013	Mancora	Longline	1	0		
208	03/05/2013	04/05/2013	Mancora	Longline	1	0		
209	03/05/2013	04/05/2013	Mancora	Longline	1	0		
210	04/05/2013	05/05/2013	Mancora	Longline	1	0		
211	07/05/2013	08/05/2013	Mancora	Longline	1	0		
212	07/05/2013	08/05/2013	Mancora	Longline	1	0		
213	08/05/2013	09/05/2013	Mancora	Longline	1	0		
214	08/05/2013	09/05/2013	Mancora	Longline	1	0		
215	08/05/2013	10/05/2013	Mancora	Longline	2	0		
216	09/05/2013	10/05/2013	Mancora	Longline	1	0		
217	09/05/2013	10/05/2013	Mancora	Longline	1	0		
218	10/05/2013	11/05/2013	Mancora	Longline	1	0		
219	12/05/2013	12/05/2013	Mancora	Longline	2	0		
220	13/05/2013	13/05/2013	Mancora	Longline	2	0		
221	14/05/2013	14/05/2013	Mancora	Longline	2	0		
222	15/05/2013	15/05/2013	Mancora	Longline	2	0		
223	15/05/2013	16/05/2013	Mancora	Longline	1	0		
224	16/05/2013	17/05/2013	Mancora	Longline	1	0		
225	16/05/2013	17/05/2013	Mancora	Longline	1	0		
226	16/05/2013	16/05/2013	Mancora	Longline	2	0		
227	17/05/2013	18/05/2013	Mancora	Longline	1	0		
228	17/05/2013	18/05/2013	Mancora	Longline	1	0		
229	17/05/2013	17/05/2013	Mancora	Longline	2	0		
230	18/05/2013	19/05/2013	Mancora	Longline	1	0		
231	18/05/2013	19/05/2013	Mancora	Longline	1	0		
232	18/05/2013	18/05/2013	Mancora	Longline	2	0		
233	21/05/2013	21/05/2013	Mancora	Longline	2	0		
234	22/05/2013	23/05/2013	Mancora	Longline	1	0		
235	22/05/2013	23/05/2013	Mancora	Longline	1	0		
236	22/05/2013	22/05/2013	Mancora	Longline	2	0		
237	23/05/2013	25/05/2013	Mancora	Longline	2	0		
238	23/05/2013	24/05/2013	Mancora	Longline	1	0		
239	23/05/2013	24/05/2013	Mancora	Longline	1	0		
240	23/05/2013	23/05/2013	Mancora	Longline	2	0		

241	24/05/2013	24/05/2013	Mancora	Longline	1	0		
242	24/05/2013	24/05/2013	Mancora	Longline	2	0		
243	25/05/2013	26/05/2013	Mancora	Longline	1	0		
244	25/05/2013	25/05/2013	Mancora	Longline	2	0		
245	28/05/2013	29/05/2013	Mancora	Longline	1	0		
246	29/05/2013	31/05/2013	Mancora	Longline	2	0		
247	30/05/2013	31/05/2013	Mancora	Longline	1	0		

Appendix III

Examples of media articles and press releases related to the project.

http://piuranews.blogspot.com/2011/07/prodelphinus-inicia-proyecto-de.html

http://blog.conservation.org/2011/07/clp-award-winners-seabird-conservation-in-peru/

http://blogprodelphinus.blogspot.com/2012_08_01_archive.html

http://blogprodelphinus.blogspot.com/2011_06_01_archive.html

Appendix IV

Summary for Poster presentation at CONCIMAR:

III Congreso de Ciencias del Mar del Perú
Lima, del 25 al 29 de junio 2012

III CONGRESO DE CIENCIAS DEL MAR DEL PERÚ

Formato para presentación de resumen de ponencia

Título del Trabajo: Herramientas para incentivar la conservación de aves marinas en la región de Piura
Nombre y Apellidos del Autor(es): Harold Parra, Alvaro García, Sergio Pingo, Astrid Jimenez, Guillermo Montoya, Elio Nuñez, Juana Soledad, Joanna Alfaro, Natalia Ortiz
Afiliación (Institución/Empresa): ProDelphinus
RESUMEN (máximo de 250 palabras que incluyan introducción, los objetivos, la metodología, los resultados con datos y conclusiones).
La región de Piura alberga más de 70 especies de aves marinas, de las cuales catorce son endémicas de la corriente de Humboldt y dos se encuentran en peligro crítico. Su mar hace parte de las principales zonas migratorias y de forrajeo para aves como el albatros de las Galápago, varias especies de petreles y aves guaneras. Igualmente, en la región se encuentra la flota pesquera artesanal más grande del país la cual está en constante interacción con las diferentes especies de aves marinas. Sin embargo, pocos esfuerzos de conservación son realizados para reducir este problema. Con el fin de iniciar medidas de conservación marina a nivel regional, la organización ProDelphinus en colaboración con la Iniciativa Darwin, Conservation Leadership Programme y Birdlife, ha desarrollado una guía de las aves marinas de la región de Piura que será entregada a las principales agencias estatales y ONGs locales. Esta guía contiene información básica sobre la biología de las especies, el status en el que se encuentran y las principales amenazas a las que se enfrentan. Asimismo, se ha elaborado una guía con las especies más comunes para repartir entre pescadores con el fin de que ellos reconozcan las aves marinas con las que comparten su día a día. Es de vital importancia conocer qué aves marinas se encuentran en la zona para enfocar de la manera más adecuada los planes de conservación para estas especies. Las herramientas proporcionadas incentivarán y contribuirán con dicho objetivo.

Fecha límite del envío de resúmenes: 30 de marzo de 2012

III Congreso de Ciencias del Mar del Perú
Lima, del 25 al 29 de junio 2012

Modalidad de presentación
(marque con una x)

Oral		Poster	x

Área temática
(marque con una x)

Taxonomía, Biodiversidad y Conservación	x	El mar historia y sociedad	
Biotecnología azul y nuevas tecnologías		Pesquerías	
Biología y ecología de organismos marinos		Contaminación marina, toxicología, patología	
Oceanografía		Maricultura	
Medio ambiente Cambio Climático y océano		Ecología de poblaciones y comunidades marinas	

Image 1. Poster presented at CONCIMAR.

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