

Darwin Initiative: Half Year Report

(due 31 October 2012)

Project Ref No	18-001
Project Title	Darwin Sustainable Artisanal Fisheries Initiative (Peru)
Country(ies)	Peru
UK Organisation	University of Exeter
Collaborator(s)	ProDelphinus (PD) Instituto del Mar del Peru (IMARPE) Federacion de Integracion y Unificacion de Pescadores Artesanales del Peru (FIUPAP) Ministerio del Ambiente (MINAM)
Project Leader	Dr Brendan Godley
Report date	31 October 2012
Report No. (HYR 1/2/3/4)	HYR3
Project website	http://www.prodelphinus.org/darwin_initiative.html http://www.facebook.com/ProDelphinus?fref=ts http://www.blogprodelphinus.blogspot.com/

1. Outline progress over the last 6 months (April – September) against the agreed baseline timetable for the project (if your project has started less than 6 months ago, please report on the period since start up).

1.1 Workshops

Regular and repeated conservation and bycatch mitigation workshops (38 talks, 700+ attendees) have been held within the past six months and have been attended by fishermen, university students and regional government officers and researchers. The project has also made substantial progress involving industrial fishermen and vessel operators in these discussions.

1.2 Darwin Graduate Trainee/ 1.3 Darwin-IMARPE Fellow

Two graduate trainees have been identified, Natalia Ortiz completed her MSc at University of Exeter in August 2012 and IMARPE-Pisco biologist Evelyn Paredes has been identified as the Darwin-IMARPE Fellow and will assess leatherback turtle fishery interactions in Pisco

1.4 Conference attendance Darwin staff

Project staff JAS attended the International Sea Turtle Society Symposium in Mexico, March 2012. Project staff also presented a poster at the World Congress of Herpetology, Canada, August 2012 and contributed a paper to the small cetacean gillnet bycatch workshop during the Sociedad Latinoamericana de Especialistas de Mamiferos Acuaticos meeting, Argentina, September 2012. JCM attended the South Pacific Regional Fishery Management Organization meeting as an observer, Oct 2012. PD staff also participated in a series of marine mammal stranding network coordination meetings held by MINAM. Project staff also participated in a week long planning workshop of the Humboldt Current LME. Staff also presented two posters at the Congreso de ciencias del Mar in July in Lima, Peru. Staff also assisted with preparation of the Peru country report submitted to the First Workshop for Latin American Otter Research and Conservation.

2.1 Artisanal fisheries assessment completed

The survey work and several detailed analyses of the results have now been completed. This work was conducted in 30% of the fishing ports in Peru (ca. 31 ports and landing sites) and more than 800 surveys of artisanal fishermen were obtained. Formal write-ups of the analyses are now at advanced stages of report and manuscript preparation.

2.2 Spatial ecology database established

The database was established, with relevant data to be entered and updated regularly by PD project staff.

2.3 Fisheries observer programme underway

This work is underway by onboard observers in four ports with IMARPE participation underway at one additional port. Shore-based observers are also operating in one additional port in northern Peru.

2.4 Marine Vertebrate monitoring underway

Marine vertebrate monitoring is underway at all the observer programme ports mentioned above (Item 2.3) with additional wide-area monitoring made possible through a real-time HF radio communication program with at-sea fishing vessels. Weekly maps identifying high bycatch areas are being produced using the information reported by fishermen.

2.6 Scientific papers

Four papers and one book chapter have been published or are in press as of the end of the reporting period.

Mangel, J.C., J. Alfaro-Shigueto, M.J. Witt, D. Hodgson & B.J. Godley. *In press*. Using pingers to reduce small cetacean bycatch in the small-scale driftnet fishery in Peru. *Oryx*.

Alfaro-Shigueto, J., J.C. Mangel, P.H. Dutton, J.A. Seminoff & B.J. Godley. 2012. Trading information for conservation: a novel use of radio broadcasting to reduce sea turtle bycatch. *Oryx* 46(3): 332-339.

E. Daniel Cossios et al. 2012. The order Carnivora (Mammalia) in Peru: State of knowledge and research priorities for its conservation. *Peruvian Journal of Biology* 19(1): 17-26.

Alfaro-Shigueto, J., J. Valqui & J.C. Mangel. 2011. New record of the marine otter *Lontra felina* (Molina, 1782) north to its current distribution. *Ecologia Aplicada* 10(2): 87-91.

Seminoff, J.A., J. Alfaro-Shigueto, J. Mangel, D. Amorocho, S. Kelez & D. Chacón. 2012. Biology and conservation of sea turtles in the Eastern Pacific Ocean: A general overview. Pp. 11-39 in: Sea turtles of the Eastern Pacific: Advances in Research and Conservation, J. Seminoff and B. Wallace (eds.). University of Arizona Press. 368 pp.

2.7 Project summary report prepared, presented to stakeholders and decision makers

All current work will inform the preparation of the project summary report.

3.1 Website established

A fully revised and updated project website was released in August 2011 to complement the project blog and Facebook page that have been operating since the project's inception. In less than 2 years the project Facebook site has acquired about 3,000 followers.

3.2 Production of Darwin Newsletters

Our third Darwin newsletter is in preparation and e-newsletters are posted regularly on the PD blog and Facebook page.

3.3 Press releases in Peru and UK

There was ample press coverage of project activities within the past 6 months including: an article in *Peru Shimpo*, a Peruvian Japanese language newspaper; an article in the *El Comercio Ecology* page (Peru); radio interviews of JAS by *Radio Filarmonia* (Peru) and BBC Radio 4 *Woman's Hour* (UK); a TV interview of JAS by the program *Cinco Minutos* (Peru). JAS was also highlighted in the WWF [Education for Nature](#) newsletter as an alumnus and winner of a 2012 Whitley Award.

3.3 Darwin Seminars for key stakeholders

There is no change to this scheduled activity and there are, in addition, regular, informal communications with all key stakeholders.

3.4 Darwin Conference

All current work and lessons learned will inform our end of project Darwin Conference.

4.1 Bycatch mitigation trials and implementation

Multiple bycatch mitigation trials and implementations continue after their commencement ahead of schedule. These include fishery experiments with net lighting and acoustic alarms and distribution of weighted swivels, net cutters and dehookers. We are also in the planning stages for additional gillnet trials to begin in November 2012.

5.1 Darwin reporting

This second 6 monthly report demonstrates our continued progress to date, now 24 months into the funded period.

5.2 Steering Group meetings

Peruvian staff Joanna Alfaro-Shigueto and Jeffrey Mangel have been having regular stakeholder meetings in Peru and visited the University of Exeter and held extensive meetings with UK based staff and further elaborated the work plan for the rest of the reporting year.

2. Give details of any notable problems or unexpected developments that the project has encountered over the last 6 months. Explain what impact these could have on the project and whether the changes will affect the budget and timetable of project activities.

The project is continuing to develop on or ahead of schedule. The only budgetary issue is that we are trying to appoint a Darwin Research Fellow to complement the team at the moment and depending on how soon this person can be in place, we may end up with an underspend on salary/overhead that we would like to carry forward to ensure maximal impact of the project in its final year.

Have any of these issues been discussed with LTS International and if so, have changes been made to the original agreement?

Not yet, we are awaiting more information.

Discussed with LTS: Not yet, we will be in a position to do so in January.

Formal change request submitted: No

Received confirmation of change acceptance: No

3. Do you expect to have any significant (eg more than £5,000) underspend in your budget for this year?

Yes highly possible No

If yes, and you wish to request a carryforward of funds, this should be done as soon as possible. It would help Defra manage Darwin funds more efficiently if you could give an indication of how much you expect this request might be for.

Estimated carryforward request: ca. £10 - £15k

4. Are there any other issues you wish to raise relating to the project or to Darwin's management, monitoring, or financial procedures?

No.

If you were asked to provide a response to this year's annual report review with your next half year report, please attach your response to this document.

Please note: Any planned modifications to your project schedule/workplan or budget should not be discussed in this report but raised with LTS International directly.

Please send your **completed form by email** to Eilidh Young at Darwin-Projects@ltsi.co.uk . The report should be between 1-2 pages maximum. **Please state your project reference number in the header of your email message eg Subject: 17-075 Darwin Half Year Report**