

PACIFIC SEABIRD GROUP



FORTY-SECOND ANNUAL MEETING: **A FUTURE FOR SEABIRDS**

San Jose, California, USA

18 - 21 February 2015
San Jose Airport Garden Hotel

Sponsors and Donors

The Pacific Seabird Group acknowledges the generous support of the following sponsors and donors for the 42nd Annual Meeting:



PSG 2015 Meeting Schedule-at-a-Glance

Wed 18 Feb	Thu 19 Feb	Fri 20 Feb	Sat 21 Feb
1400-1930 Registration	0730-1700 Registration	0800-1600 Registration	0800-1400 Registration
0830-1200 Committee meetings <i>ExCo (0830)</i> <i>MMTC (0900)</i> <i>KMTC (1000)</i>	0815-0930 Welcome Plenary: Nate Mantua <i>Climate Variability</i>	0815-0930 Announcements Plenary: Vicki Friesen <i>Conservation Genetics</i>	0815-0930 Announcements Plenary: David Ainley <i>Food Webs</i>
	0930-1000 Break	0930-1000 Break	0930-1000 Break
	1000-1200 Special Paper Session 1 <i>Seabirds as predictors of climate events</i> Concurrent Session <i>Conservation Biology</i>	1000-1200 Special Paper Session 3 <i>Ashy storm-petrel conservation & science</i> Concurrent Session <i>Seabird-Fisheries Interactions</i>	1000-1200 Special Paper Session 4 <i>Conservation and status of shearwaters</i> Concurrent Session <i>Breeding Biology</i>
1200-1300 <i>Lunch</i>	1200-1330 <i>Lunch & Free time</i>	1200-1330 <i>Light Buffet Lunch</i> <i>Conservation Meeting</i>	1200-1330 <i>Light Buffet Lunch</i> <i>Members Meeting</i>
1300-1830 Committee meetings <i>ExCo</i> <i>MMTC</i> <i>Seabird Monitoring (ends at 1500)</i> <i>NPAWG</i> <i>SMGMTC</i>	1330-1500 Special Paper Session 2 <i>Community-based seabird conservation</i> Concurrent Sessions <i>Behavior</i> <i>Tracking & Distribution</i> (3 concurrent sessions)	1330-1500 Special Paper Session 3 <i>Ashy storm-petrel conservation and science (cont'd)</i> Concurrent Sessions <i>Restoration & Eradication</i> <i>Contaminates & Marine Debris</i> (3 concurrent sessions)	1330-1500 Concurrent Sessions <i>Foraging Ecology</i> <i>Climate Change</i> (2 concurrent sessions)
	1500-1530 Break	1500-1530 Break	1500-1530 Break
	1530-1700 Special Paper Session 2 <i>Community-based seabird conservation (cont'd)</i> Concurrent Sessions <i>Chinese Crested Terns</i> <i>Behavior</i> <i>Tracking & Distributions / Non-breeding Biology</i> (3 concurrent sessions)	1530-1700 Concurrent Sessions <i>Tools & Techniques</i> <i>Restoration & Eradication (cont'd)</i> <i>Physiology</i> <i>Management, Policy & Planning</i> (3 concurrent sessions)	1530-1700 Concurrent Sessions <i>Foraging Ecology</i> <i>Population Biology</i> (2 concurrent sessions)
	1715-1830 Committee Meetings <i>Former Chairs</i>	1715-1830 Committee Meetings <i>PTCM, J-KSCC</i>	1715-1830 <i>Free time</i>
1830-2200 Welcome Reception	1830-2200 Poster Reception	1830-2200 Student Mentoring	1830-2300 Awards Banquet & Dance



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Welcome to San Jose!

The Local Organizing Committee of the 42nd Annual Meeting of the Pacific Seabird Group welcomes you to San Jose, California. A lot of time and effort has gone into preparing this meeting so we hope it's a great experience for everyone.

San Jose is the 3rd largest city in California and the 10th largest in the US with nearly 1 million residents. It is truly a cosmopolitan city located in the South San Francisco Bay and in the heart of Silicon Valley. The meeting venue is only 5-10 minutes by car from the airport. The city is not far from San Francisco Bay where waterbirds and shorebirds are plentiful at this time of year. One of the best locations to see these birds is the Don Edwards National Wildlife Refuge, located 30 minutes north in the city of Fremont. In addition there is a large diversity of habitats to see landbirds, redwood forests, and great mushroom hunting. Some of the best birding can be done from the bow of a ship off Monterey Bay, which is home to many pelagic and coastal seabirds, marine mammals, turtles, and sharks. Two fieldtrips worth checking out include the pelagic seabird excursion that will visit the offshore waters of Monterey Bay or a visit to the Don Edwards National Wildlife Refuge.

In addition to an exciting scientific program, there are several social events planned to help you connect with colleagues, develop new collaborations, or get inspired about seabird biology while chatting with friends. The first event is the Welcome Reception on Wednesday, 18 February that will serve hors d'oeuvres and a no-host bar. Many thanks to Lagunitas Brewing Company for their donation for this event - check your name badge for a complimentary drink ticket! On Thursday evening, there is a Poster Reception where you can chat with poster presenters while sampling good food and your favorite beverage from the no-host bar. On Friday at noon, the Conservation Committee will host a meeting with a light buffet lunch for all attendees. On Friday evening, there is a Student mentor mixer where students can meet academics, federal or state employees, and professional consultants to seek guidance on a career in wildlife biology, resource management, or environmental consulting. There are two events on Saturday to round out the conference. At noon, the PSG Members Meeting (formerly called Business Meeting) will provide a light buffet lunch to all attendees. Important business is discussed at the Members meeting so come and voice your opinion on the direction of PSG; please note, all travel award recipients must attend the Members meeting. Finally, the Awards Banquet will be held on Saturday evening. Tickets are required to partake in the dinner but all are welcome to attend the awards ceremony followed by music and dancing afterwards. Please come and help PSG celebrate the Lifetime Achievement Award recipient, Dr. David Ainley, as well as presentations for the Best Student Talk and Student Poster awards.

The Local Committee is grateful to Melinda Nakagawa, a local artist and seabird biologist, who donated her art work for the 2015 PSG annual meeting logo (designed by Emma Kelsey). Please support the annual meeting and the Pacific Seabird Group by purchasing souvenirs. T-shirts and pint glasses with the awesome meeting logo are available for purchase at the registration desk or at RegOnline, and prints can be purchased from the artist. In addition, help us support student travel to future PSG meetings by bidding on rare and unique gifts and souvenirs at the Silent Auction that will be held until Saturday at 3:15 PM. Finally, be sure to visit the vendor tables in the foyer of the Mediterranean Center - they are here to help facilitate your research needs.

Lastly, I am grateful to the many sponsors who provided financial support of this meeting and to all the volunteers who offered their time to help make this meeting possible. The PSG EXCO (Executive Committee) and the current and past LOCOs (local committee) offered invaluable guidance and advice (especially Doug Forsell) - Thank You! If there is anything I can help you with, please ask. On behalf of the Local Organizing Committee, Thank You for participating in the 42nd Annual meeting.

Have a great meeting.



Scott Shaffer
Chair, Local Organizing Committee



S. Shaffer with Western gull,
Scott Creek, Santa Cruz.



San Jose, California

Welcome from the Scientific Program Chair

On behalf of the Local Committee and the PSG Executive Council, we welcome you to the 42nd meeting of the Pacific Seabird Group. Our theme this year, 'A Future for Seabirds' is appropriate to our focus as a professional organization – basic science, applied research, and a bent towards conservation to ensure a future for seabirds. The theme is also fitting for our San Jose venue, where high-tech industries foster innovation and provide tools we can use in our vocation.

Our opening plenary talks for each of the three days of presentations span a wide range of geographies and disciplines. On Thursday, Dr. Nathan Mantua (Southwest Fisheries Science Center, Santa Cruz, California) will discuss "Pacific climate variations and their impacts on California Current System ecosystems", providing oceanographic background for the many of the sessions. On Friday, Dr. Vicki Friesen (Department of Biology, Queen's University at Kingston, Ontario) will draw on her expertise in genetics to explore "Predicting appropriate population units for successful conservation". On Saturday, our plenary speaker is the recipient of the 2015 PSG Lifetime Achievement Award, Dr. David Ainley (H.T. Harvey & Associates Ecosystem Consultants, California). True to David's lifelong passion for the conservation of seabirds and marine ecosystems, he will talk about "Following in the footsteps of Don Quixote: is arguing for the importance of top-down forcing in seabirds' food webs merely tilting at windmills?"

In our contributed sessions we have 127 oral and 47 poster presentations featured over three days. Thank you presenters! Because you made the extra effort to communicate your work and discoveries, this meeting already looks like a success. The presentations include four Special Paper Sessions: Can seabirds be used to predict impending climatic events in the Pacific? (led by Grant Humphries); Community-based seabird conservation (led by Peter Hodum); Ashy Storm-petrel Range-wide Science and Conservation (led by David Ainley), and Shearwaters Forever or Cause for Concern?- the Conservation and Status of Shearwaters (led by Mark Rauzon). The sessions will each end with brief discussion periods, which we hope will facilitate links among those of you who want to really delve into issues facing the future of seabirds. Our last night ends with the banquet, awards ceremonies and dancing, where we honor Dr. David Ainley for his lifetime of work towards research and the conservation of seabirds, and his significant contributions to PSG over the last 42 years.

The demographic profile of the attendees at this 42nd meeting indicates a strong future for PSG - 22% students, 12% early-career scientists, 36% mid-career, 29% late-career, and 1% retired. The PSG is obviously a Society with a large cohort of new and emerging scientists, a high percentage of mid- to late-career professionals, and a few wise elders. Apparently no one had 'no job and lovin life!'

The main task of the Chair-elect, other than learning the ropes, is to organize the Scientific Program for the PSG meeting (perhaps a right-of-passage?). Having no experience in organizing science programs or conferences, I could not have done it without the wonderful Local Committee (especially Scott Shaffer and Doug Forsell) and the team of volunteers, our Chair (Jo Smith), Secretary (Pat Baird), online registration expert (Lindsay Young), and website expert (Annette Henry). On the production side I relied on Rachael Orben, Corey Clatterbuck, and Liz Labunski. Thanks to all of you. And from all of us, "Carry on - and thanks for all the fish!"

Kathy Kuletz,
Science Program Chair



Local Organizing Committee

Chair	Scott Shaffer, San Jose State University
Scientific Program Chair	Kathy Kuletz, US Fish and Wildlife Service
Awards Committee Chair	Doug Forsell, retired US Fish and Wildlife Service
Sage Advice	Joanna Smith, TNC Canada
Abstract Book	Corey Clatterbuck, San Diego State University / UC Davis, Elizabeth Labunski, U.S. Fish and Wildlife Service
Artwork	Melinda Nakagawa, Moss Landing Marine Labs
Field Trips	Gerry McChesney, US Fish and Wildlife Service
Fund-raising	Anna Weinstein, Audubon California
Meeting Program	Rachael Orben, Oregon State University
Meeting Website	Annette Henry, NOAA Fisheries
Merchandise Design	Emma Kelsey, US Geological Survey
Registration On-line	Lindsay Young, Pacific Rim Conservation
Student Activities	Andrew Titmus, University of Hawaii
Vendor and Exhibitor Liaison	Anna Weinstein, Audubon California
Volunteer Coordinators	Andrew Titmus, University of Hawaii & Scott Shaffer, San Jose State University
Field Trips	Gerry McChesney, US Fish and Wildlife Service

Volunteers

Registration desk and Paper Sessions	Olivia Bailey, Tessa Behnke, Laura Bliss, Abraham Borker, Susan Cockerham, Cheryl Horton, Jennifer Jelincic, Caitlin Kroeger, Juliet Lamb, Emily Moffit, Caroline Poli, Cotton Rockwood, Rachel Ruden, Dena Spatz, Linda Takahashi, Greg Taylor, Ian Throckmorton, Andrew Titmus, Sarah Youngren
Contributed Session Chairs	Yuri Albores-Barajas, Doug Bertram, Esther Burkett, Gail Davoren, Steve Delehanty, Kyle Elliott, Alejandra Fabila-Blanco, Shannon Fitzgerald, Nina Karnovsky, Patrick O'Hara, Norman Ratcliffe, Dan Robinette, Daniel Roby, Marc Romano, Joanna Smith, Rob Suryan, Lindsay Young
Special Paper Session Conveners	David Ainley, Harry Carter, Peter Hodum, Grant Humphries, Mark Rauzon

Special Acknowledgments

Thank you for your generosity and service to make this meeting possible!

Banquet DJ: Joel Nelson Productions, Inc.

Catering: San Jose Airport Garden Hotel

Program printing: Signature Print Services

**Plenary & Lifetime Achievement Award
Introductions:** Kathy Kuletz, Scott Shaffer, Joanna Smith, Doug Forsell, George Divorky

Sage Advice: Pat Baird, Doug Forsell, Joanna Smith, Holly Freifeld, Patrick Jodice, and Lindsay Young

A Note about the Meeting Logo

When it was first pointed out to me that this year's 42nd PSG meeting theme was "A Future for Seabirds" I immediately thought of the North Blind on East Sand Island, Oregon. In this blind, where dozens of field technicians such as myself have spent hours watching Caspian Terns and identifying their prey, someone has written on the wall: "So long, and thanks for all the fish."

"So long, and thanks for all the fish" is the fourth book in The Hitchhikers Guide to the Galaxy series (a trilogy of five parts) by Douglas Adams. This phrase is what the dolphins say to the human race as they escape planet earth before it is destroyed. The Hitchhikers Guide to the galaxy is a comical science fiction series about an English man hitchhiking around the galaxy; in the end (spoiler alert) he finds that the answer to the Ultimate Question of Life, The Universe, and Everything is: '42'. Yes the number, as in '42nd PSG meeting! As in ecology, all things are connected. Adams first created the story as a comedy radio broadcast on BBC Radio 4 and it has since been recreated as a book series, TV show, play, video game and movie. So, as we talk about a future for seabirds, I hope this quote reminds us of the importance of humor and perspective.



42: 'So long, and thanks for all the fish'
-Douglas Adams

-Emma Kelsey



About the Artist

Melinda Nakagawa, local seabird researcher, creates woodblock and linoleum block prints with a seabird and marine focus. Some of the prints in this year's program were inspired during her summers as a seabird intern on Southeast Farallon Island. Melinda will have color prints as note cards, original and reproduced prints available for purchase during the conference. If you are interested in ordering prints, please email her at [mnakagawa831\[at\]gmail.com](mailto:mnakagawa831[at]gmail.com).

Block prints were created by carving an original design into blocks (either linoleum, cherry or shina wood) with cutting tools. For multi-color prints, one block was carved for each color printed. Printing involved multiple steps. The first color block was inked, printed on paper, and allowed to dry before repeating with successive colors. The final block to be printed was the black *key block*. The Brandt's Cormorant print used for this year's PSG conference logo was created by carving four separate blocks.

Detailed Daily Schedule

San Jose Airport Garden Hotel – Mediterranean Center

Registration Desk

Mediterranean Center Foyer

Wednesday 18	1400-1930
Thursday 19	0730-1700
Friday 20	0800-1600
Saturday 21	0800-1400

Vendor Hours

Mediterranean Center Foyer

Thursday 18	0900-1800
Friday 19	0900-1800
Saturday 20	0900-1800

TUESDAY 17 February		
TIME	INFORMATION	LOCATION
1300-1700	Short-tailed Albatross Recovery Team (START)	<i>Governor's House (A)</i>
WEDNESDAY 18 February		
0830-1700	Pacific Seabird Group Executive Council (EXCO)	<i>Castillian</i>
0900-1700	Marbled Murrelet Technical Committee (MMTC)	<i>Granada</i>
1000-1200	Kittlitz's Murrelet Technical Committee (KMTC)	<i>Governors A/B</i>
1300-1500	PSG Seabird Monitoring Committee	<i>Riveria</i>
1300-1700	North Pacific Albatross Working Group (NPAWG)	<i>Governors A/B</i>
1400-1700	Scripps's Murrelet and Guadalupe Murrelet Technical Committee	<i>Governors C/D</i>
1730-1830	World Seabird Conference 2 (WSC2)	<i>The Café Bar or hospitality suite</i>
1830-2200	WELCOME RECEPTION	<i>Riveria/Monte Carlo</i>
THURSDAY 19 February		
0815-0830	Welcome and Daily Announcements	<i>Castillian/Granada</i>
0830-0930	PLENARY: Dr. Nate Mantua - Climate Variability	<i>Castillian/Granada</i>
0900-1700	Silent Auction	<i>Mediterranean Center Foyer</i>
0930-1000	<i>Break</i>	
0930-1000	Student Paper Judging Meeting	<i>Governors House (A)</i>
1000-1200	Special Paper Session 1: Seabirds As Predictors of Climate Events	<i>Castillian</i>
1000-1200	Paper Session: Conservation Biology	<i>Granada</i>
1200-1330	<i>Lunch on your own</i>	
1330-1500	Special Paper Session 2: Community-based Seabird Conservation	<i>Castillian</i>
1330-1500	Paper Session: Behavior	<i>Granada</i>
1330-1500	Paper Session: Tracking & Distribution	<i>Riveria</i>
1500-1530	<i>Break</i>	
1530-1700	Paper Session: SPS 2: cont. (Discussion)/ Conserv. Biol. (CCTE)	<i>Castillian</i>
1530-1700	Paper Session: Behavior cont.	<i>Granada</i>
1530-1700	Paper Session: Tracking & Distribution cont./ Non-breeding Biology	<i>Riveria</i>
1715-1815	Former Chairs Committee meeting	<i>Hotel Suite</i>
1830-2200	POSTER RECEPTION	<i>Monte Carlo/Riveria</i>

FRIDAY 20 February		
TIME	INFORMATION	LOCATION
0815-0830	Welcome and Daily Announcements	<i>Castillian/Granada</i>
0830-0930	PLENARY: Dr. Vicki Friesen – Conservation Genetics	<i>Castillian/Granada</i>
0900-1700	Silent Auction	<i>Mediterranean Center Foyer</i>
0930-1000	<i>Break</i>	
1000-1200	Special Paper Session 3: Ashy Storm-Petrel Conservation & Science	<i>Castillian</i>
1000-1200	Paper Session: Seabird- Fisheries Interactions	<i>Granada</i>
1200-1320	<i>Conservation Committee Meeting – light lunch provided</i>	<i>Riveria</i>
1330-1500	Special Paper Session 3: Ashy Storm-Petrel Conservation & Science	<i>Castillian</i>
1330-1500	Paper Session: Restoration & Predator Eradication	<i>Granada</i>
1330-1500	Paper Session: Contaminants & Marine Debris	<i>Riveria</i>
1500-1530	<i>Break</i>	
1530-1700	Paper Session: Tools & Techniques	<i>Castillian</i>
1530-1700	Paper Session: Restoration / Physiology	<i>Granada</i>
1530-1700	Paper Session: Management, Policy & Planning	<i>Riveria</i>
1715-1830	Pelican Technical Committee meeting	<i>Governors House (A)</i>
1715-1830	Japan-Korea Seabird Conservation Committee meeting	<i>Governors House (B)</i>
1830-2200	STUDENT MENTORING RECEPTION	<i>Monte Carlo</i>
SATURDAY 21 February		
0815-0830	Welcome and Daily Announcements	<i>Castillian/Granada</i>
0830-0930	PLENARY: Dr. David Ainley – Food Webs	<i>Castillian/Granada</i>
0900-1700	Silent Auction	<i>Monte Carlo</i>
0930-1000	<i>Break</i>	
1000-1200	Special Paper Session 4: Conservation & Status of Shearwaters	<i>Castillian</i>
1000-1200	Paper Session: Breeding Biology	<i>Granada</i>
1200-1320	<i>PSG Members Meeting – Lite lunch provided</i>	<i>Riveria</i>
1330-1500	Paper Session: Foraging Ecology	<i>Castillian</i>
1330-1500	Paper Session: Climate Change	<i>Granada</i>
1500-1530	<i>Break</i>	
1530-1700	Paper Session: Foraging Ecology, cont.	<i>Castillian</i>
1530-1700	Paper Session: Population Biology	<i>Granada</i>
1700-1830	Free time	
1830-2300	AWARDS BANQUET AND DANCE	<i>Mediterranean Center</i>

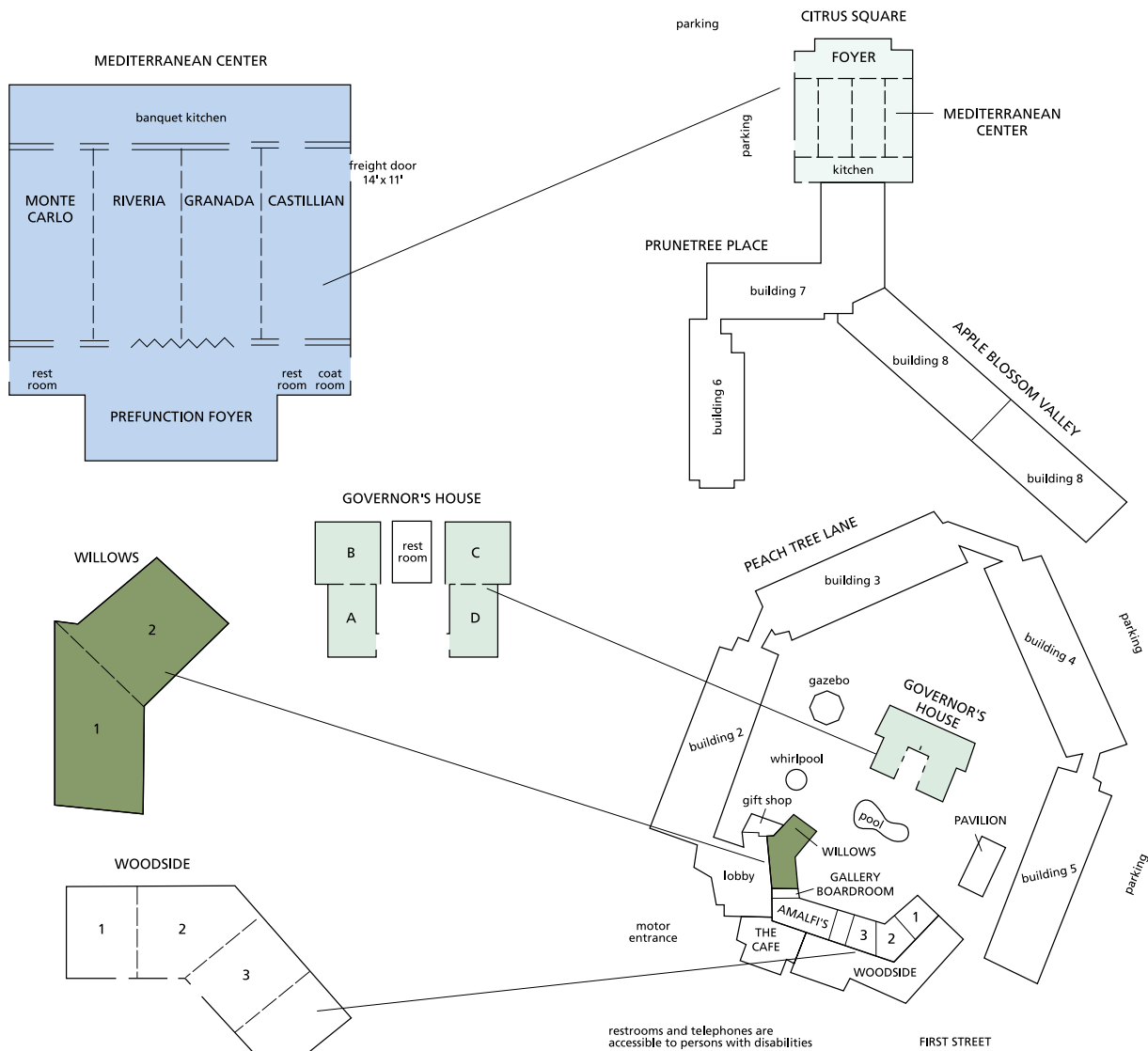
Field Trips

TIME	DATE	DESTINATION
1000-1500	Tuesday 17 February	<i>Birding in Don Edwards NWF, CA</i>
0600-1530	Sunday 22 February	<i>Pelagic Seabird Trip in Monterey Bay, CA</i>
0800-1300	Sunday 22 February	<i>Birding in Don Edwards NWF, CA</i>

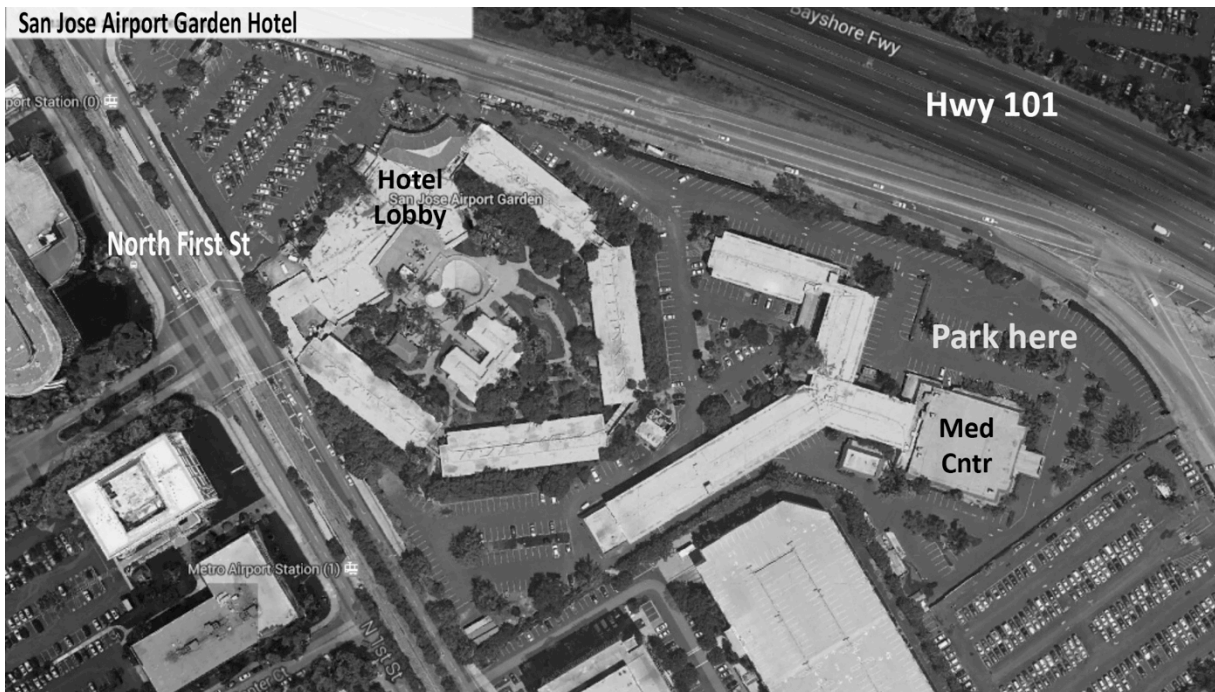
**Please see PSG website for other field trip details. Times reflect departure and return from San Jose Airport Garden Hotel.*

San Jose Airport Garden Hotel San Jose, California

Most of the meeting will take place in the Mediterranean Center, which contains four meeting halls (see map below). Most social events (Welcome Reception, Poster Reception, Student Mentoring session, and Banquet) will occur in the Mediterranean. Meeting registration is available every day in the foyer of the Mediterranean Center. Morning plenaries are in the two northernmost halls (Castillian and Granada) of the Mediterranean Center and scheduled talks will be in Riveria, Castillian, or Granada Halls. Poster presentations and an evening reception will be held in Monte Carlo Hall. The Silent Auction runs daily in Monte Carlo Hall and later in Monte Carlo Hall, vendors are on display every day in the Mediterranean Center Foyer.

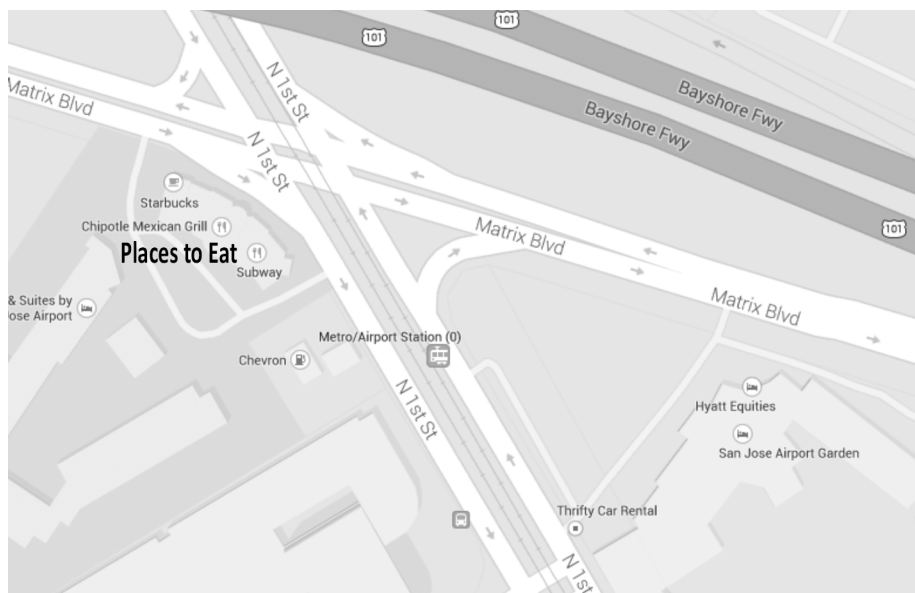


Hotel Area Map



The Hotel entrance is past the intersection and right near the “North First St” label on this map. The meeting venue is in the Mediterranean Center (labeled Med Cntr) so enter the parking lot at the Hotel entrance and follow the road around to where it says “Park Here”.

Places to Eat



From the Hotel Lobby, you can find places to eat across North First St:

- Subway Sandwiches*
- Chipotle Mexican Grill*
- Starbucks Coffee*
- Wong Kok Asian*
- Pho Viet*
- NYPD Pizza & Dogs*
- Casino Matrix (down the street on Matrix Blvd heading West)*



Pacific Seabird Group

DEDICATED TO THE STUDY AND CONSERVATION OF PACIFIC SEABIRDS AND THEIR ENVIRONMENT

Executive Council 2014-2015

Officers

<i>Chair</i>	Joanna Smith
<i>Chair-Elect</i>	Kathy Kuletz
<i>Past-Chair</i>	Doug Forsell
<i>Vice-chair for Conservation</i>	Stan Senner
<i>Treasurer</i>	Christine Ogura
<i>Secretary</i>	Patricia Baird

Regional Representatives

<i>Alaska and Russia</i>	Robb Kaler
<i>Canada</i>	Ken Morgan
<i>Washington and Oregon</i>	Peter Hodum
<i>Northern California</i>	Anna Weinstein
<i>Southern California, Latin America and Hawaii</i>	Annette Henry
<i>United States*</i>	Iain Stenhouse
<i>Asia and Oceania</i>	Kuniko Otsuki
<i>Europe and Africa</i>	Stefan Garthe
<i>Student Representative</i>	Andrew Titmus

**excluding AK, WA, OR, CA and HI*

Ex-officio

<i>Interim Editor, Pacific Seabirds</i>	Holly Freifeld
<i>Communications Committee Coordinator</i>	Vacant
<i>Elections Coordinator</i>	Alan Burger
<i>Listserve Coordinator</i>	Verena Gill
<i>Membership Coordinator</i>	Jennifer Ma
<i>Website Coordinator</i>	Annette Henry
<i>Webmaster</i>	Lisa Ballance

PSG Executive Council Meetings

Executive Council (EXCO) – Wednesday, 18 February

All members are encouraged to attend the EXCO meeting, especially those interested in serving on the Executive Council. The PSG is headed by an Executive Council, which meets annually in-person and one or two times per year via conference calls. PSG annual meetings and publications provide forums where members can share their findings on all research topics relating to Pacific seabirds and discuss local and large-scale conservation issues. A meeting agenda will be available on the PSG website and at the meeting. Items of importance will be summarized at the PSG Member's Meeting. For more information, please contact: Joanna Smith, [josmith\(at\)birdsmith.ca](mailto:josmith@birdsmith.ca).

Former Chairs – Thursday, 19 February

The idea of this group is to bring the institutional memory, wisdom and experiences of PSG Former Chairs together to advise and guide the organization on key issues. The main duty for the Former Chairs is to provide information and guidance to the Awards Committee on nominations of candidates for PSG Lifetime Achievement and Special Achievement Awards. The Former Chairs may also discuss other overarching issues, which pertain to the long-term success of the organization. For more information, please contact Kim Rivera, [Kim.Rivera\(at\)noaa.gov](mailto:Kim.Rivera@noaa.gov)

Conservation Committee – Friday, 20 February

All members are encouraged to attend the Conservation Committee Meeting. The Conservation Committee takes an active role in promoting conservation of seabirds. The Conservation Committee often provides support for seabird conservation measures, and criticism of activities that will likely harm seabirds or the marine environment. For more information, please contact: Stan Senner, [ssenner\[at\]audubon.org](mailto:ssenner@audubon.org).

Member's Meeting – Saturday, 21 February

All members are encouraged to attend the Member's Meeting (formally the 'PSG Business Meeting') during the Light Buffet Lunch to ask questions, have input on PSG business, or raise issues that concern you. Travel Award recipients are expected to attend this meeting as a condition of accepting their award. For more information, please contact: Joanna Smith, [josmith\[at\]birdsmith.ca](mailto:josmith@birdsmith.ca)

Technical Committees, Working Groups, and other Meetings

All members are welcome to attend these meetings, with the exception of START. Please contact the meeting chair for more information. Meeting locations and times are identified in the Detailed-Daily Schedule.

Short-tailed Albatross Recovery Team – Tuesday, 17 February

The Short-tailed Albatross Recovery Team (START) was formed after the US Fish and Wildlife Service listed the species endangered throughout its range in 2000 under the US Endangered Species Act. The START prepared the Short-tailed Albatross Recovery Plan that was finalized in 2008, and these experts remain active. Current members are based in Japan, Canada, and throughout the U.S. For efficiency the START takes advantage of professional meetings attended by its members, such as the PSG annual meeting, and will be holding its 2015 meeting in conjunction with PSG. The START meeting is open to START members only. For more information, contact Ellen Lance: [ellen_lance\[at\]fws.gov](mailto:ellen_lance@fws.gov) or Rob Suryan: [rob.suryan\[at\]oregonstate.edu](mailto:rob.suryan@oregonstate.edu).

Kittlitz's Murrelet Technical Committee - Wednesday, 18 February

The Kittlitz's Murrelet Technical Committee (KMTC) was formed in 2008 to begin addressing concerns related to the status and conservation of this rare seabird. The purpose of the KMTC is to (1) act as a technical authority on the status, distribution, and life history of the Kittlitz's Murrelet; (2) identify, encourage, and facilitate research; (3) address conservation problems related to the Kittlitz's Murrelet; and (4) act as a liaison between research and management. The KMTC currently comprises roughly 40 members that meet annually in conjunction with the PSG annual meeting and occasionally at other opportunistic venues. For more information, please contact John Piatt, [piattj\[at\]gmail.com](mailto:piattj@gmail.com).

Marbled Murrelet Technical Committee - Wednesday, 18 February

The Marbled Murrelet Technical Committee (MMTC) was created in 1986 for the purpose of assembling researchers and other interested parties to integrate research objectives and methods, and share information on the biology of murrelets. This committee has been very active in sponsoring symposia, writing research protocols, holding workshops, and commenting on federal and state management actions related to forests and oceans. The committee has several sub-committees including a group working on revisions of the inland survey protocol and a group working on marine issues. For more information, please contact: Kim Nelson Kim.Nelson@oregonstate.edu or Peter Harrison, peter.harrison@dnr.wa.gov.

North Pacific Albatross Working Group - Wednesday, 18 February

The North Pacific Albatross Working Group (NPAWG) was formed in 2000 for the conservation of the three North Pacific albatross species: Black-footed, Laysan and Short-tailed Albatross. The goal of the working group is to improve albatross conservation in the North Pacific through enhanced communication and coordination for protection, management, monitoring, outreach, and research activities both nationally and internationally. For more information, please contact: Ellen Lance, ellen_lance@fws.gov or see their webpage: <http://npawg.org>.

Seabird Monitoring Committee - Wednesday, 18 February

The Seabird Monitoring Committee was formed in 1992 and has four main themes: (1) coordinate sharing of monitoring results in a timely manner, (2) evaluate current year result to help inform other PSG committees, (3) develop standardized protocols and data management practices, and (4) promote the effective use of seabirds as indicators of local and large-scale change in the Pacific marine environment. This meeting will be followed by a closed FWS Seabird Monitoring Session. For further information, please contact Robb Kaler, robert_kaler@fws.gov and Heather Renner, heather_renner@fws.gov

Scripps's Murrelet and Guadalupe Murrelet - Wednesday, 18 February

The Scripps's Murrelet and Guadalupe Murrelet Technical Committee (SMGMTC; formerly known as the Xantus's Murrelet Technical Committee) was formed in 1992. In 2002, PSG petitioned for U.S. federal and California state ESA listing. In 2004, they were listed as state threatened, U.S. federal candidate species, and endangered in Mexico. The Committee (1) monitors the U.S. federal listing petition, status, research, and conservation issues for the Scripps's and Guadalupe murrelets; (2) provides information to interested parties; and (3) coordinates research and conservation in the U.S., Mexico, and Canada. For more information, please contact: Shaye Wolf, swolf@biologicaldiversity.org and Harry Carter, carterhr@shaw.ca.

California Brown Pelican Working Group – Friday, 20 February

PSG's involvement and advice provided range-wide biological information and conservation direction for the California Brown Pelican subspecies during the 1970s-1990s. That activity largely ended with population recovery from contaminant impacts and removal from Federal Endangered Species status. Since delisting in 2009, the pelican has demonstrated a series of major breeding failures, unusual mortality events, and conflicts associated with fisheries and fisheries management. Consistent post-delisting monitoring required under the ESA has not occurred and no state or Federal agencies have implemented or committed to a coordinated monitoring program for this coastal seabird. The purpose of the working group is to bring together researchers, agency personnel and conservationists to begin a discussion of devising, funding, and implementing a comprehensive long term monitoring effort in order to better understand the ecological relationships and address the conservation concerns that impact the subspecies throughout its range. For more information, please contact Deborah Jaques, djaques.pel@charter.net, and Robert McMorran, robert_mcmorran@fws.gov.

Japanese and Korean Seabird Conservation Committee – Friday, 20 February

The Japanese Seabird Conservation Committee (JSCC) was created in 1995 to summarize and follow the progress of seabird conservation issues in Japan, encourage international collaboration between scientists on certain projects, and provide information to PSG and other parties. The committee changed its name in 2014 to add Korea and seabird conservation issues in Korea (now the JKSCC). The committee has been active in helping initiate collaborative research, addressing issues affecting the status of rare, threatened and endangered seabirds in Japan and Korea, assessing seabird mortality and assisting rehabilitation efforts during oil spills, assisting seabird restoration, and sponsoring/contributing to symposia or special paper sessions on research and conservation of seabirds in Japan and Korea. For more information, please contact: Kuniko Otsuki, boomam@sa2.so-net.ne.jp, and Kim Nelson kim.nelson@onid.oregonstate.edu.

Meeting Information for Participants

(Alphabetical, by topic)

Please check the Notice Board beside the Registration Desk for Announcements

Banquet, Awards Ceremony, and Dance

If you would like to attend the banquet but did not purchase a ticket when you registered, you may do so until 1600 on Thursday 19 February at the registration desk. Tickets are \$55.00. Please wear your nametag to the banquet and throughout Saturday evening. The banquet menu includes your choice of Chicken Florentine or Vegetarian Wellington. A no-host bar serving beer and wine will be tended throughout the evening. The awards ceremony will follow the banquet, and **is open to all registered attendees**, even if they did not purchase a banquet ticket. A dance with a DJ will follow the awards ceremony. **Everyone is invited!**

Breaks and Networking

During the scientific program, morning and afternoon breaks are included in registration. Please enjoy the complimentary coffee, tea, juice, and light snacks for registered attendees. When talks are in progress, please move away from the ballroom doors to prevent voices drifting in from the break area. If you would like to hold a meeting or enjoy some privacy for a lengthy discussion or debate, please ask at the Registration Desk for availability of meeting space in the Governor's House or meet in the gardens surrounding the pool if the weather is nice.

Cell Phones

Please silence or turn off all mobile devices while attending the scheduled talks. Please have all cell phone conversations away from the ballroom doors.

Field Trips

We have two field trips this year, including 1) several half-day trips to the Don Edwards National Wildlife Refuge and 2) Pelagic seabirding on Monterey Bay. All trips are scheduled to depart from the San Jose Airport Garden Hotel lobby on the day of the trip. Transportation will be provided for most trips but space is limited. More information is available on the website and at the Registration Desk.

Internet Access

Internet access is provided free of charge for all meeting attendees throughout the Mediterranean Center, Governors House, Hotel rooms and lobby. The WiFi password will be posted on the message board near the registration booth. One public computer for hotel guests is located in the Hotel Lobby.

Lost and Found

You can turn in or ask for any lost and found articles at the Registration Desk.

Lunches

On Thursday, lunch is on your own and we suggest exiting the hotel grounds and walking across the street to one of several fast food (e.g. Subway, Pho Viet, NYPD Pizza) or eat-in restaurants. Please check out the maps with local eatery locations included in this program for places within walking distance. On Friday and Saturday, a light buffet lunch will accompany the Conservation Committee and the PSG Members meetings, respectively. All are invited to attend. Both meetings will take place from 1200-1320 in Riveria Hall in the Mediterranean Center.

Meeting Spaces

There are several meeting spaces available for your discussions or meetings. Please inquire at the Registration Desk to reserve.

Meeting Information for Participants

Oral Presentations

Oral presentation slots are 15 min long, unless otherwise noted. This allows 12 min for a talk and 2-3 min for questions and the transition to the next speaker. Computers are available at the registration desk to load presentations into the session folders. Please save presentations to a USB drive with the following information: Last name (or surname) of first author as it appears in the program, Date of talk, Room, and Session time. Rooms: CA = Castillian, GR = Granada, RV = Riveria;

EXAMPLE: Kelsey_21Feb_GR_1030_1200.

A/V volunteers request all presenters to load their talk the day before their talk is scheduled so they can be saved to the computers in the ballrooms. At the very latest, talks can be loaded by 0900 on the day of the presentation. Presenters must make sure that any audio or video clips accompany the presentation file when it is loaded at the Registration Desk. All presenters are responsible for making sure that a presentation works, including any associated media (sound, video). A presentation preview area is available on a first come first serve basis. Ask at the registration desk.

The meeting venue is using Microsoft Windows 7 with Microsoft Office PowerPoint viewer. Internet is available in the ballrooms however please ensure that any clips that require the Internet or specific software or applications work prior to your talk. Please contact the registration desk if you have additional A/V needs, and they will try to accommodate your request.

Parking

Free parking is provided at Mediterranean Center for meeting attendees.

Poster Presentations

The Poster Presentation Reception is on Thursday from 1830-2200 in Monte Carlo/Riveria Halls. Appetizers and a cash bar will be available for the duration of the reception. Presenting authors should be in attendance at their poster beginning at 1830. Posters may be put up starting Wednesday afternoon and must be removed by the afternoon break on Friday. Please see the notice board at the registration desk for any last-minute instructions.

Numbers have been placed on the Posterboards to match a list posted in the room. Attach posters to the posterboards using tacks that have been provided or Velcro.

Registration Desk

The registration desk is located in the Foyer, and will be open each day on Wed-Sat. Please see the Schedule-at-a-Glance for registration desk hours.



Meeting Information for Participants

Session Chairs

Thank you for your willingness to assist with the scientific program. **Please meet at the Registration Desk at 0810 on the morning you are scheduled to be a session chair to review instructions.** Session Chairs have a critical job in keeping presenters within the time allotted for their talk so that the meeting stays on schedule and concurrent sessions are synchronized. Session Chairs also work with A/V volunteers and venue staff to make sure that the audience can hear the talk, that the lights are dim enough to see the presentation, and assist the speaker with identifying or hearing questions from the audience after a talk, time permitting.

Prior to your session, ensure you have a timepiece suitable for accurate timing. Synchronize your watch with the other session chairs in the concurrent session. Start, and keep, on time, with the schedule. Please make contact with all of the speakers in your session to confirm names and pronunciations and inform them on how they will be given warnings for time remaining. Before the session starts, also confirm that all talks are loaded on the laptop. At the beginning of the Session, please welcome the audience and presenters and announce the Session's title (e.g., Breeding Biology or Special Paper Session: Shearwater Conservation). Reiterate to the speakers that they will be given 5- and 3-minute warnings near the end of their talk. At 2-minutes before the change-over time, stand up and move closer to the speaker. When there is no time left, move to the podium, thank the speaker, and begin your introduction of the next talk. Please note that at the 1minute warning, it is important to be friendly but direct in indicating that a talk must come to an immediate close. If a speaker runs over time, they impact the next speaker's time allotment because you must stay synchronized with the concurrent session. For questions, please ask Kathy Kuletz, Scientific Program Chair (c: 1 907 830 5378). If you get ahead of time wait for the next speaker to start at the correct time.

Silent Auction

Check out the beautiful artwork, books, photographs, and other unique items donated for the auction and make a bid! The silent auction will be held in the Foyer on Thursday and Friday, and moved to Monte Carlo on for Saturday. To donate an auction item, please drop it off at the PSG registration desk by Thursday and fill out a form. If you would like a receipt ask for it. All proceeds from the silent auction are used to support PSG's student travel award program. Sheets are next to each item and you simply indicate your bid on the sheet. **Bidding will close at 1515 on Saturday, 21 February.** Payment for auction items is cash or check only. For questions, please ask Andrew Titmus, Student Representative, [ajtitmus\(at\)gmail.com](mailto:ajtitmus(at)gmail.com).

Student Paper Judges

Please meet Doug Forsell at 2000 in the Granada Hall next to the Social on Wednesday evening or in the Governor's House (A) on Thursday morning, from 0930-1000, (i.e. first break), to review the scoring process and be assigned student talks and posters. Judging forms can be turned in at the registration desk any time. On Saturday, after all the student presentations have been given, judges will meet in the Governor's House (A) to deliberate from 1500-1530; additional time may be needed and if so, return to the Governor's House (A) 1730 -1730. Check the message board next to the registration desk for any additional information for judges. For questions, please ask Doug Forsell, Chair of the Student Award Committee.

Twitter

#PSG42

Volunteers for Registration Desk and Paper Sessions

Please meet at the registration desk on the morning of your shift for any announcements or schedule changes of note. We appreciate all of your help!

Social Events

Welcome Reception: Wednesday 18 Feb. 1830-2200. Riveria Hall, Mediterranean Center

A catered reception that is included in your registration fee, serving a variety of meat and vegetarian appetizers. A no-host bar serves beer and wine - one complimentary drink ticket is provided for each registered attendee.

Poster Presentation and Reception: Thursday 19 Feb. 1830-2200. Monte Carlo and Riveria Halls, Mediterranean Center

A catered reception included in your registration fee, serving a variety of meat and vegetarian appetizers. A no-host bar serves beer and wine.

Student Mentor session: Friday 20 Feb, 1830-2200. Monte Carlo.

Students and junior researchers are invited to come and chat with senior biologist mentors from academia, Federal/State government, non-profit organizations, and private consulting firms. Mentors will be available to answer questions about different career paths and discuss research interests, how to network, or anything else you'd like to ask them. Appetizers and drink tickets will be provided to participants.

Banquet, Awards, and Dance: Saturday 21 Feb. 1830-2300. Mediterranean Center – All rooms

The 2015 PSG Awards Ceremony will take place following the banquet; award presentations will commence at approximately 2000. All welcome! Recipients of the Lifetime Achievement Award, Student Paper & Poster Awards, and Travel Awards will be acknowledged.

Lifetime Achievement Award:

In 1993, PSG instituted The **PSG Lifetime Achievement Award** that recognizes a seabird researcher, educator, or conservationist who has made significant, long-term contributions to seabird science, conservation and education in the Pacific Ocean or the world. This year, we are pleased to honor Dr. David Ainley with the PSG Lifetime Achievement Award.

Student Paper & Poster Awards:

Awards will be presented for the Best Paper by a Masters Student, Best Paper by a Ph.D. Student, and Best Poster by a Student. The annual meeting provides a great opportunity for students to hone their communication skills. Students indicated at registration if they wanted to be considered for an award, and are indicated by * and highlighted in the program. PSG members have volunteered to evaluate these presentations. A big shout out of thanks to these members!

Travel Awards:

This year, \$5,250 USD was awarded to assist 13 PSG student members and \$2,500 was awarded to seven non-Canadian/US scientists with their travel expenses to present a paper or poster in San Jose. These awards are yet another way that PSG supports and mentors student and international members outside USA and Canada. Student travel funds are raised annually from donations and the Silent Auction. International travel awards are raised annually from member donations and the annual meeting. Participate in the Silent Auction and bid high and often! Please make an effort to meet and talk with student members and our international members – many have traveled a great distance and it is PSG's goal to support seabird work throughout the Pacific Ocean. Awards are presented at the banquet, and recipients are expected to attend the PSG Member's Meeting (formerly Business Meeting).

Lifetime Achievement Award



PSG is honoring **Dr. David Ainley** with a Lifetime Achievement Award in 2015. Growing up in the wilds of New England, with plenty of time spent in the mountains of New Mexico, Colorado and California, David was inspired to pursue his BS degree from Dickinson College, Pennsylvania. While still a student there, he published his first paper based on his senior research. His attention to the ocean was tweaked by summers at Kent Island in the Bay of Fundy, as well as the Yukon-Kuskokwim Delta and Chesapeake Bay, which led to a Ph.D. at Johns Hopkins University, through which he investigated penguins in Antarctica. He since has made about 35 trips to Antarctica and the Southern Ocean, about a third of those on oceanographic research vessels.

In the meantime, he founded and for 20 years led the marine research program at PRBO, including at-sea and foraging ecology (through NOAA) and the Farallon Island marine bird and mammal component. He co-researched with Larry Spear the ecology of seabirds in the eastern tropical Pacific (as a comparison to the Southern Ocean), piggy-backing on EPOCS cruises, and with Greg Spencer studied the ecology of endangered seabirds in Hawaii. For the past 20 years he's been on the staff of H.T. Harvey & Associates Ecosystem Consultants, working there with the support of Ron Duke and Scott Terrill. Some of the H.T. Harvey projects he's been involved in include the Exxon-Valdez Oil Spill, GLOBEC-California Current and -Southern Ocean, and SF Bay Dredge Materials Disposal efforts.

Currently --- well for the past 18 years --- through the National Science Foundation, he has been researching penguin demography with co-researchers Grant Ballard and Katie Dugger. Concurrently, he has been conducting a study on the effects of cetacean foraging on penguin prey availability at Ross Island in the Ross Sea. Included in the latter is use of an ocean glider and ROVs, with co-researchers Walker Smith and Stacy Kim, to assess effects of penguin foraging on prey availability. For the past 10 years, as an avocation, he's been 'tilting at windmills,' attempting to protect the Ross Sea from humans, most immediately industrial fishing (www.lastocean.org). David's passion led to the founding of FORSE (Friends of the Ross Sea Ecosystem), for which he wrote proposals and lead efforts to designate the Ross Sea as a Marine Protected Area. The Ross Sea constitutes 3.2% of the Southern Ocean and 0.01% of the World Ocean and is the subject of international resolutions from IUCN, WCC, MCBI and Mission Blue, nonetheless its cause is still ongoing in the chaotic geopolitical grab for resources.

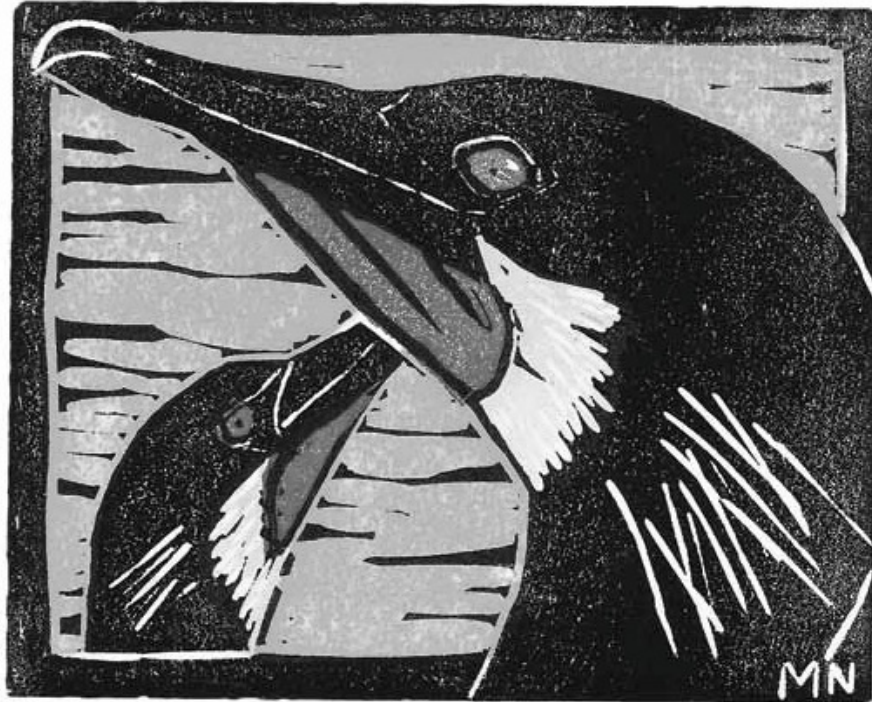
David's underlying motivation in how one should conduct science is inspired by Thomas Jefferson, who in charging Meriwether Lewis with surveying the Louisiana Purchase, noted that making observations is important but those not recorded and reported is information lost. He's thus been an author or co-author of 4 books, 12 monographs and at least 230 papers about the ecology of marine upper trophic levels - seabirds, marine mammals, and sharks. He is the first to acknowledge that he could not have done this without the support of family, who graciously allowed him the long periods of absence from the 'normal' world.



Scientific Program

ABSTRACTS are available on the PSG website
<http://www.pacificseabirdgroup.org/>

A hard copy of the Abstract Book is available for viewing at the Registration Desk.



Plenary Speakers

Thursday, February 19th, 0830-0930

PACIFIC CLIMATE VARIATIONS AND THEIR IMPACTS ON CALIFORNIA CURRENT SYSTEM ECOSYSTEMS

Dr. Nathan Mantua



A native of Bodega Bay, California, Nate is currently the team leader for the Landscape Ecology Team at the National Oceanic and Atmospheric Administration (NOAA) Southwest Fisheries Science Center in Santa Cruz, California. Nate was at the University of Washington in Seattle, Washington, from 1995-2012, where he most recently co-directed the Climate Impacts Group and was an Associate Professor in the School of Aquatic and Fishery Sciences. As a climate scientist, Nate's varied work includes collaborating on seminal studies on decadal scale climate variability and effects of changing ocean climate on salmonid production and related ecosystem regime shifts in the North Pacific. As an expert climatologist, Nate has testified before the U.S. Congress on environmental change and its effects on fish populations and fisheries.

Abstract

This talk focuses on climate driven seasonal to century scale variations in the California Current System (CCS), and how these variations are related to local, regional, and basin scale climate patterns (including ENSO, NPGO, PDO, and the recently described *California El Niño*). Key regional patterns in winds, currents, and heat exchanges between the ocean and atmosphere that dominate variations and trends in CCS temperatures will be described. The major climate oscillations important to the NE Pacific will then be defined and their typical evolution described. I will also review the current state of knowledge linking environmental changes in the CCS with ecosystem impacts, including impacts on top predators like salmon and sea birds. The presentation will conclude with a short list of key questions about the potential impacts of anthropogenic climate change on the CCS and its marine life.

Plenary Speakers

Friday, February 20th, 0830-0930

PREDICTING APPROPRIATE POPULATION UNITS FOR SUCCESSFUL CONSERVATION



Dr. Vicki Friesen

Vicki is a Professor of Biology at Queen's University at Kingston, Ontario, Canada. Vicki's research group studies evolutionary and conservation genetics of vertebrates, primarily seabirds. Her main focus is on mechanisms of speciation: how does one species split and diverge into two? Given that seabirds encounter few barriers to dispersal, what initiates speciation? Currently, Vicki and her team are using next-generation sequencing protocols to address questions about adaptation, especially with respect to climate. Many of her team's results have implications for conservation, for example in defining distinct population segments. She is also actively involved in conservation, e.g. through the Committee on the Status of Endangered Wildlife in Canada, and the Society for Conservation Biology.

Abstract

Identification of genetically differentiated populations is critical for successful conservation. If local populations differ genetically, then loss of a population may deplete some of the species' genetic resources, including local adaptations. Genetically differentiated populations also are not likely to be recolonized naturally following extirpation. Furthermore, demographic parameters may differ between such populations. Thus, genetically differentiated populations should be managed separately, as recognized in most endangered species legislation. However, identification of genetically isolated populations can be time-consuming and expensive, especially for declining or cryptic species. Such populations could be predicted if appropriate population and ecological variables are known. Here I review population genetic studies of seabirds to test the importance of six factors that may predict the extent of genetic differentiation among populations. Over 200 studies, including over 100 species, have been published to date. Most species comprise two or more genetically differentiated populations. Physical (geographic) barriers to dispersal are clearly important: conspecific populations that are separated by large expanses of land or ice always differ genetically. However, many species of seabirds show evidence of population differentiation even in the absence of physical barriers to dispersal. Study results indicate that differences in ocean regimes, nonbreeding distributions, foraging distributions during the breeding season, and breeding phenology also can be associated with genetic differentiation. Of these factors, physical isolation and differences in ocean regime appear to be the most important. Philopatry alone may be sufficient for genetic divergence, but usually it acts in combination with other barriers to gene flow. The effects of several other potential influences on population differentiation need to be investigated more thoroughly, including colony distribution/location, wind, interspecific interactions, environmental stability/variability, variation in phenotypic traits associated with mate choice (morphology, behaviour, vocalizations), interspecific hybridization, and intrinsic (genomic) incompatibilities. Recent advances in genome sequencing, especially if used in combination with ecological tools such as geolocators and new methods for data interpretation, are opening exciting new avenues to test the for the existence of - and reasons for - genetic differentiation of populations.

Plenary Speakers

Saturday, February 21st, 0830-0930

FOLLOWING IN THE FOOTSTEPS OF DON QUIXOTE: IS ARGUING FOR THE IMPORTANCE OF TOP-DOWN FORCING IN SEABIRDS' FOOD WEBS MERELY TILTING AT WINDMILLS?



Dr. David Ainley

David received his BS degree from Dickinson College and Ph.D. from Johns Hopkins University. He has made ~30 trips to Antarctica and the Southern Ocean, about half on oceanographic research vessels. Currently, he is involved in research on penguin demography, as well as a study on the effects of cetacean foraging on penguin prey availability at Ross Island. His work includes innovative studies using an ocean glider and Remotely Operated Vehicles to assess effects of penguin foraging on prey availability. He's worked

extensively in the California Current, including many cruises. David founded and then working at the Point Reyes Bird Observatory marine research program on the Farallon Islands. He worked with Larry Spear for 15 years trying to better understand the ecology of seabirds in the eastern Equatorial Pacific and with Greg Spencer to study endangered Hawaiian seabirds. For the past 10 years he's been engaged in trying to protect the Ross Sea from humans, most immediately industrial fishing (www.lastocean.org). He's written 4 books, 12 monographs and ~230 papers about the ecology of marine top predators: seabirds, mammals and sharks. David is the 2015 recipient of the Lifetime Achievement Award by the Pacific Seabird Group. For more on David's background and inspiration, see the LAA write up in this program.

Abstract

My research began with exercising the need for long-term studies of seabird life history variation, oscillating among colony and at-sea studies. Along the way, I was impressed by the profound changes in seabird food webs, not because of climate forcing but by fishery extraction and other human-related factors. More was going on than just seabirds partaking of what the ocean had to offer, or not. To the seabird research community, however, Pauly's "shifting baseline" is not problematic with changing climate/bottom up factors becoming elevated as the major force behind seabird food web processes. In the early days of modern ecology, discussion revolved around Hairston et al.'s (1960) "Green world hypothesis": the world is green because predators prevent herbivores from becoming abundant enough to destroy all the vegetation. The long-term experiment of Terborgh et al. (2006) --- in which islands with predators as a large artificial lake was formed remained green in contrast to those without predators --- plus other recent studies, answered the question, at least for terrestrial/freshwater ecosystems. Rarely are such experiments available for marine systems. In this talk, using results of my own research and referring to that of others, I'll argue that Hairston et al.'s hypothesis applies to the ocean as well, though the opportunity to observe this is becoming ever more rare during the Anthropocene. If seabird enthusiasts wish to argue for the importance of seabird research to conserve ocean biota, or even just seabirds, they need to recognize and add top-down forcing of food web processes to their campaigns.

Special Paper Sessions

SPS 1: CAN SEABIRDS BE USED TO PREDICT IMPENDING CLIMATIC EVENTS IN THE PACIFIC?

Thursday, February 19th, 1000-1200

Lead Convener: Grant Humphries (humphries.grant@gmail.com)

Most traditional studies which examine the relationships between climate and seabirds focus on how we can use climatic or oceanographic variables to predict responses on populations. This session will extend this thinking and discuss how seabirds, as indicators of these climatic and oceanographic relationships, may also be used as predictors of those climate and ocean parameters represent precursors (or warning signals) of future events. In lieu of recent oceanographic shifts in the Pacific, we will focus primarily on El Nino Southern Oscillation and how the biological effects of the predicted event were being noted prior to convergence of modeled predictions. The importance of this session is to highlight how seabirds can be more than monitors of change and can in fact be predictors of change as well.

SPS 2: COMMUNITY-BASED SEABIRD CONSERVATION

Thursday, February 19th, 1330-1545

Lead Convener: Peter Hodum (peter@oikonos.org)

Community-based education, outreach and capacity-building programs are increasingly recognized as an essential component of long-term conservation strategies in places where humans co-exist with wildlife. Given multiple increasing threats confronting seabirds, including climate change, invasive species and other anthropogenic impacts, there is a need for local communities to engage in efforts to conserve many seabird populations. In this context, a special paper session focused on community-based activities and programs is timely and complements PSG's commitment to the conservation of seabirds. In addition, the organizing committee for the second World Seabird Conference identified this focus as one of the Legacy Initiative topics, and it will be a symposium topic for the WSC. With both the PSG and WSC venues creating a forum for community-based efforts, we expect considerable advances in the development of outreach and education initiatives that will benefit seabirds. The goals of the proposed session are to (1) share outreach and education activities, (2) provide a forum to discuss best practices in community outreach and education, and (3) discuss possible ideas to establish a network for individuals involved with and interested in community-based conservation initiatives.

Special Paper Sessions

SPS 3: ASHY STORM-PETREL RANGE-WIDE CONSERVATION AND SCIENCE

Friday, February 20th, 1000-1430

Chair: David Ainley (dainley@penguinscience.com)

The highly imperiled Ashy Storm-petrel (ASSP) has a global population of <9000 individuals with breeding taking place mostly at two population centers and a number of small colonies in central and northern California. This rare and range restricted seabird is at risk of extinction due to a variety of threats including invasive species, avian predation, climate change and oil spills. A number of experts have informally agreed that better rangewide coordination as well as a Conservation Plan are needed in order to ensure systematic and robust science and conservation activities. A PSG science and conservation symposium followed by the development of a Conservation Plan will allow partners to prioritize most important monitoring and conservation activities for the species. The California setting of the meeting is appropriate as ASSP is a California near-endemic and most of the rangewide experts are based there.

SPS 4: SHEARWATERS FOREVER OR CAUSE FOR CONCERN? - THE CONSERVATION AND STATUS OF SHEARWATERS

Saturday February 21st, 10:00-12:00

Lead Convener: Mark Rauzon (mrauzon@peralta.edu)

There is a growing perception that shearwaters face conservation challenges throughout the Pacific. Along the west coast of North America and in Alaskan waters, sooty and short-tailed shearwaters appear to be diminishing. Other Pacific species are in decline due to identified threats, for example in Japan, it is estimated that 92,000 Streaked Shearwaters are killed annually by cats on Mikura Is. A few populations may be undergoing slight increases, such as the pink-footed shearwater on Juan Fernandez Island. We hope this special paper session can raise awareness, facilitate the exchange of ideas and information, and instigate more action for shearwater conservation.



THURSDAY 19 February - Talks

(those considered for student paper award are highlighted)

0730-1700	Registration Desk	
0815-0830	Welcome	
0830-0930	Plenary Nate Mantua, NOAA – Southwest Fisheries Science Center PACIFIC CLIMATE VARIATIONS AND THEIR IMPACTS ON CALIFORNIA CURRENT SYSTEM ECOSYSTEMS	
0930-1000	Break	
	Granada	Castillian
	Conservation Biology	<i>Special Paper Session 1</i> Seabirds As Predictors of Climate Events
1000	RISK MANAGEMENT FOR AT-RISK SEABIRDS: ASSESSING BYCATCH EFFECTS ON THE POPULATION DYNAMICS OF BLACK-FOOTED ALBATROSS (<i>PHOEBASTRIA NIGRIPES</i>) Vickie Bakker & Myra Finkelstein	BREEDING SOOTY SHEARWATERS PREDICT THE ONSET OF EL NIÑO BY OVER A YEAR Grant Humphries
1015	TEMPORAL CHANGE IN A SUBARCTIC MARINE BIRD COMMUNITY THAT EXPERIENCED SIMULTANEOUS EFFECTS OF A MAJOR OIL SPILL AND CLIMATE VARIABILITY Daniel Cushing , Daniel Roby, & David Irons	SEABIRD REACTION TO SPECIAL OCEANOGRAPHIC CONDITIONS IN THE PACIFIC IN 2014 Ben Haase
1030	COMMON MURRE (<i>URIA AALGE</i>) BREEDING POPULATION TRENDS IN CENTRAL CALIFORNIA, 2000-2014 Allison Fuller , Gerard McChesney, Phillip Capitolo, Crystal Bechaver, Harry Carter, & Michael Parker	RECENT WARM LOCAL OCEAN ANOMALIES IN THE GULF OF CALIFORNIA DRIVE ELEGANT TERN NESTING NORTH INTO THE PACIFIC OCEAN Enriqueta Velarde , Exequiel Ezcurra, Michael Horn, & Robert Patton
1045	CONSERVATION AND NESTING SEABIRDS AT TODOS SANTOS ARCHIPELAGO, MEXICO Alfonso Hernández-Ríos , Nuria Meza-Cuellar, Alfonso Aguirre-Muñoz, María Felix-Lizarraga, & Yuri Albores-Barajas	WIDESPREAD BREEDING FAILURE IN GULF OF CALIFORNIA BROWN PELICANS IN 2014 Daniel Anderson & Franklin Gress
1100	NEW METHOD TO REMOVE EQUINOX-AFFECTED FIXES IN LIGHT-GEOLLOCATION DATA Ignacio Juarez Martinez & Tim Guilford	SEABIRDS AT SEA AS PREDICTORS OF IMPENDING CLIMATE EVENTS William Sydeman & Marisol Garcia-Reyes
1115	VULNERABILITY OF SEABIRDS TO AT-SEA ANTHROPOGENIC THREATS: VARIATION ACROSS TAXA IN THE NORTH PACIFIC Cotton Rockwood & Lisa Ballance	Seabirds As Predictors of Climate Events: Discussion
1130	BREEDING PERFORMANCE OF LAYSAN ALBATROSSES <i>PHOEBASTRIA IMMUTABILIS</i> IN A FOSTER PARENT PROGRAM Lindsay Young Eric VanderWerf, Cathy Granholm, Hob Osterlund, Kim Steutermann, & Thomas Savre	
1145		
1200-1330	Lunch	

THURSDAY 19 February - Talks

(those considered for student paper award are highlighted)

	Riveria	Granada	Castilian
	Tracking & Distribution / Non-breeding Biology	Behavior	Special Paper Session 2 Community Based Seabird Conservation
1330	MARBLED MURRELET MOVEMENTS AND MARINE HABITAT USE DURING THE BREEDING SEASON ON THE APPROACH TO KITIMAT, B.C. Douglas Bertram , Sean Boyd, Jenna Cragg, Michael Janssen, Malcom McAdie, Christie Macdonald, & P.D. O'Hara,	WHY DO SEABIRDS YAWN? STRESSORS AND YAWNING IN NAZCA BOOBIES David Anderson , Amy Liang, Jacquelyn Grace, & Emily Tompkins	BEHAVIOR CHANGE: THE CORNERSTONE OF SEABIRD CONSERVATION Sage Tezak , Mai Maheigan, Karen Reyna, Maria Brown, Allison Fuller, & Gerry McChesney
1345	PREDICTING THE OFFSHORE DISTRIBUTION AND ABUNDANCE OF SEABIRDS FROM SHIPBOARD SURVEYS, USING A COMMUNITY DISTANCE SAMPLING MODEL Holly Goyert , Beth Gardner, Rahel Sollmann, Richard Veit, Andrew Gilbert, & Kathryn Williams	BIRDS OF A FEATHER FEED TOGETHER: EXPERIMENTAL EVIDENCE OF INTERSPECIFIC DIFFERENCES AMONG THREE BREEDING SEABIRD SPECIES IN THE USE OF LOCAL ENHANCEMENT TO LOCATE PREY Kevin Bairos-Novak , Kevin Crook, & Gail Davoren	THE PRIBILOF ISLANDS SEABIRD YOUTH NETWORK Ram Papish , Tonia Kushin, Lauren Divine, Karin Holser, Pamela Lestenkof, Kendra Bush-St.Louis, Marc Romano, Chris Mercurief., & Ann Harding
1400	EL NIÑO/LA NIÑA–SOUTHERN OSCILLATION OCEANOGRAPHIC VARIATION AND THE AT-SEA DISTRIBUTION AND FORAGING ECOLOGY OF PISCIVOROUS SEABIRDS IN THE OCEANIC EASTERN PACIFIC Trevor Joyce , Robert Pitman, & Lisa Ballance	INFLUENCE OF PREY BEHAVIOUR ON THE FORAGING BEHAVIOUR OF NORTHERN GANNETS IN COASTAL NEWFOUNDLAND, CANADA Gail Davoren , Stefan Garthe, & William Montevecchi	RINGED STORM PETREL PROJECT: BUILDING A LINK BETWEEN CONSERVATION AND CITIES Yovana Murillo , Luis Delgado – Alburqueque, Laura Cancino, & Carlos Calvo
1415	MODELING SEABIRD DISTRIBUTIONS FOR MARINE PLANNING BY WASHINGTON STATE Charles Menza , Jeffery Leirness, Timothy White, Arliss Winship, Brian Kinlan, & John Christensen	THE EFFECTS OF DISPERSANT AND CHEMICALLY DISPERSED OIL ON THE BEHAVIOR OF CAPTIVE COMMON MURRESS (<i>URIA AALGE</i>) Becky Elias , Emily Whitmer, & Michael Ziccardi	THE BLUE-BANDED PELICAN PROJECT Rebecca Duerr
1430	GEOLOCATORS REVEAL THE MIGRATORY PATTERNS AND WINTERING AREAS OF ALEUTIAN-BREEDING CRESTED AUKLETS (<i>AETHIA CRISTATELLA</i>) Katherine Robbins & Ian Jones	EVALUATION OF CASSIN'S AUKLET (<i>PTYCHORAMPHUS ALEUTICUS</i>) NOCTURNAL ACTIVITY IN THREE PACIFIC ISLANDS OF BAJA CALIFORNIA, MEXICO Alejandra Fabila-Blanco , Andrew O'Reilly-Nugent, Alfonso Aguirre-Muñoz, María Félix-Lizárraga, Cristal Hernández-Mendoza, & Yuri Albores-Barajas	ARTS AND SEABIRD CONSERVATION WITH LOCAL COMMUNITIES ON THE BAJA CALIFORNIA ISLANDS, MÉXICO Maria Felix-Lizarraga , Cynthia Jauregui-Garcia, Mariam Latofski-Robles, Joana Bielschowsky de Aguirre, Alfonso Aguirre-Muñoz, & Federico Mendez-Sanchez
1445	INITIAL RESPONSE AND DISPERSAL OF DOUBLE-CRESTED CORMORANTS FOLLOWING HABITAT REDUCTION AT THE LARGEST BREEDING COLONY IN NORTH AMERICA Adam Peck-Richardson , Donald Lyons, Brad Cramer, Karen Courtot, Jennifer Mannas, & Daniel Roby	BLACK-FOOTED ALBATROSSES HAVE HIGHER LEVELS OF INDIVIDUAL VARIABILITY IN BEHAVIOR AND DIET THAN THEIR SYMPATRICALLY-BREEDING CONGENER, THE LAYSAN ALBATROSS Melinda Conners , Chandra Goetsch, Suzanne Budge, Yoko Mitani, William Walker, Daniel Costa, & Scott Shaffer	USING PROFESSIONAL AND CITIZEN SCIENCE MONITORING TO GUIDE COMMUNITY-BASED SEABIRD CONSERVATION Julie Howar , Dan Robinette, Cara O'Brien, & Jen Moonjian,
1500-1530	Break		

THURSDAY 19 February - Talks

(those considered for student paper award are highlighted)

	Riveria	Granada	Castillian
	Tracking & Distribution / Non-breeding Biology	Behavior	Special Paper Session 2 Community-Based Seabird Conservation
1530	ARE WHISKERED AUKLETS REALLY SEABIRDS? WHAT WE'VE LEARNED FROM TAGGING STUDIES Carley Schacter & Ian Jones	NEST-SITE FIDELITY AT THE LARGEST BREEDING COLONY OF DOUBLE-CRESTED CORMORANTS (<i>PHALACROCORAX AURITUS</i>) IN NORTH AMERICA Alexa Piggott, Donald Lyons, Yasuko Suzuki, Kirsten Bixler, Brad Cramer, & Dan Roby	ENGAGING LOCAL COMMUNITIES TO ADVANCE SEABIRD CONSERVATION: LESSONS FROM A DECADE OF COMMUNITY-BASED PROJECTS Peter Hodum, Hannah Nevins, Michelle Hester, Grant Ballard, & Henrik Moller
1545	SHOULD I STAY OR SHOULD I GO? PHYSIOLOGY AND GEOGRAPHY PREDICT INDIVIDUAL MIGRATORY STRATEGIES IN THE BROWN PELICAN Juliet Lamb & Patrick Jodice	COLONY SITE FIDELITY IN CASPIAN TERNS DESPITE LIMITED NESTING HABITAT: WHEN TO STAY AND WHEN TO GO Yasuko Suzuki, Daniel Roby, Donald Lyons, Peter Loschl, Kirsten Bixler, & Timothy Lawes	SPS2: Community-based Seabird Conservation: Discussion Chinese Crested Terns
1600	BODY SIZE PREDICTS INDIVIDUAL WINTER FORAGING STRATEGIES OF THICK-BILLED MURRES (<i>URIA LOMVIA</i>) IN THE BERING SEA Rachael Orben, Rosana Paredes, Daniel Roby, David Irons, & Scott Shaffer	TESTING THE SUN-COMPASS IN AN OCEAN WANDERING SEABIRD Oliver Padget, Marwa Kevalaars, & Tim Guilford	CONSERVATION OF THE CRITICALLY ENDANGERED CHINESE CRESTED TERN: STATUS, PROBLEMS, AND FUTURE PLANS Shuihua Chen, Daniel Roby, Simba Chan, Zhongyong Fan, Yiwei Lu, & Donald Lyons
1615	MODELLING LONG-TERM AT-SEA DISTRIBUTIONS OF MARINE BIRDS IN THE MAIN HAWAIIAN ISLANDS TO INFORM SPATIAL PLANNING Arliss Winship, Brian Kinlan, Matt Poti, Bryan Costa, Robert Rankin, & Lisa Ballance	CASPIAN TERN RESPONSE TO NESTING HABITAT REDUCTIONS AT A MANAGED COLONY SITE IN EASTERN WASHINGTON, USA Donald Lyons, James Tennyson, Allison Patterson, Daniel Roby, Yasuko Suzuki, & Peter Loschl	CONSERVATION STATUS AND THREATS OF CHINESE CRESTED TERNS IN MATSU ARCHIPELAGO, TAIWAN Hung Chung-Hang & Yuan Hsiao-Wei
1630	KITTLITZ'S MURRELET POPULATION ASSESSMENT ON FRESHWATER LAKES IN THE BRISTOL BAY REGION OF SOUTHWEST ALASKA Rachel Ruden	DAILY ACTIVITY BUDGETS REVEAL A QUASI-FLIGHTLESS STAGE DURING NON-BREEDING IN HAWAIIAN ALBATROSSES Sarah Gutowsky, Lee Gutowsky, Ian Jonsen, Marty Leonard, & Scott Shaffer	OBSERVATIONS OF A RESTORED BREEDING COLONY OF CHINESE CRESTED TERNS IN THE JIUSHAN ISLANDS, ZHEJIANG PROVINCE, CHINA DURING THE 2014 BREEDING SEASON Simba Chan, Shuihua Chen, Daniel Roby, Chao Chen, & Peng Ding
1645		VARIABLE RESPONSES OF BREEDING SEABIRDS TO FIREWORKS DISTURBANCE Heather Robinson, Julie Thayer, Victoria Seher, & William Sydeman	THE KEYS TO SUCCESSFUL RESTORATION OF TERN COLONIES AND THEIR APPLICATION TO RECOVERY OF A CRITICALLY ENDANGERED SPECIES Daniel Roby, Donald Lyons, Timothy Lawes, Yasuko Suzuki, Kirsten Bixler, & Ken Collis
1700 - 1830	Free Time		
1830 - 2200	Poster Reception		

FRIDAY 20 February - Talks

(those considered for student paper award are highlighted)

0730-1700	Registration Desk	
0815-0930	Announcements & Plenary Vicki Friesen, Queen's University PREDICTING APPROPRIATE POPULATION UNITS FOR SUCCESSFUL CONSERVATION	
0930-1000	Break	
	Granada	Castillian
	Seabird-Fisheries Interactions	Special Paper Session 3 Ashy Storm-Petrel Conservation and Science
1000	SEABIRD BYCATCH PATTERNS IN ALASKA: GOOD YEARS, BAD YEARS, AND PINK SALMON Stephani Zador	ASHY STORM-PETREL RANGEWIDE CONSERVATION AND SCIENCE: INTRODUCTION David Ainley , Harry Carter, Shaye Wolf, & Anna Weinstein
1015	FOOD WEB LINKS BETWEEN SEABIRDS AND PELAGIC SCHOOLING FISHES IN THE ESTUARY, PLUME, AND NEARSHORE MARINE HABITATS OF THE COLUMBIA RIVER Jeannette Zamon , Elizabeth Phillips, Daniel Roby, Don Lyons, Ken Collis, & Josh Adams	BREEDING OF ASHY STORM-PETRELS IN CENTRAL MENDOCINO COUNTY, CALIFORNIA Harry Carter , Michael Parker, Josh Koepke, & Darrell Whitworth
1030	A CENTURY OF TROPHIC CHANGE: RETROSPECTIVE ANALYSIS OF SEABIRD DIETS IN THE CALIFORNIA CURRENT Benjamin Becker , Allison Moody, Perry de Valpine, & Steven Beissinger	DETERMINING THE BREEDING STATUS OF ASHY STORM-PETRELS ON VANDENBERG AIR FORCE BASE IN CENTRAL CALIFORNIA Dan Robinette , Julie Howar, Abram Fleishman, & Matthew McKown
1045	COLLABORATING WITH FISHERMEN TO REDUCE SEABIRD BYCATCH IN WEST COAST SABLEFISH FISHERIES Amanda Gladics , Troy Guy, Edward Melvin, Robert Suryan, & Joseph Tyburczy	STANDARDIZED MONITORING OF ASHY STORM-PETREL CAPTURE-RECAPTURE RATES IN THE CHANNEL ISLANDS NATIONAL PARK Josh Adams
1100	TESTING SURROGATE SPECIES CONCEPTS ON SYMPATRIC KITTIWAKE SPECIES IN THE BERING SEA AND ALEUTIAN ISLANDS Heather Renner , Brie Drummond, Jeffrey Williams, & Marc Romano	PASSIVE ACOUSTIC MONITORING OF ASHY STORM-PETRELS AT BREEDING SITES - SUMMARY OF EXISTING RESEARCH AND NEXT STEPS. Matthew McKown , Abraham Borker, Russell Bradley, Laurie Harvey, Donald Croll, & Bernie Tershy
1115	COMPARISON OF TREATY INDIAN AND NON-TREATY GILLNET FISHERY EFFORT AND MARBLED MURRELET (<i>BRACHYRAMPHUS MARMORATUS</i>) POPULATION TREND DATA IN THE SOUTHERN SALISH SEA Amilee Wilson	BASELINE MONITORING OF ASHY STORM-PETRELS AT POINT REYES NATIONAL SEASHORE, CALIFORNIA, IN 2012-2014 Benjamin Becker , Harry Carter, R Henderson, Anna Weinstein, & Michael Parker
1130	LASER TECHNOLOGY FOR SEABIRD BYCATCH PREVENTION IN COMMERCIAL FISHERIES Edward Melvin & Esteban Fernandez-Juricic	PREDATION BY ISLAND SPOTTED SKUNKS AND RAVENS ON ASHY STORM-PETRELS AT SANTA CRUZ ISLAND, CALIFORNIA William McIver , Harry Carter, A Harvey, David Mazurkiewicz, Jim Howard, & Paige Martin
1145	A SUMMARY OF SEABIRD INTERACTIONS IN THE HAWAII DEEP AND SHALLOW SET LONGLINE FISHERIES IN 2013. John L. Peschon	EVALUATING POPULATION IMPACTS OF PREDATION BY BURROWING OWLS ON ASHY STORM-PETRELS IN RELATION TO PROPOSED ISLAND MOUSE ERADICATION Russell Bradley , Nadav Nur, Leo Salas, Pete Warzybok, & Jaime Jahncke
1200-1330	Lunch (Conservation Committee Meeting – all welcome)	

FRIDAY 20 February - Talks

(those considered for student paper award are highlighted)

	Riveria	Granada	Castillian
	Contaminates & Marine Debris	Restoration & Eradication	Special Paper Session 3 Ashy Storm-Petrel Conservation and Science
1330		STATUS OF THE SOCORRO ISLAND BIRDS AFTER EXOTIC SPECIES CONTROL Antonio Ortiz-Alcaraz , Ana Montiel-Arteaga, Alfonso Aguirre-Muñoz, David Cosio-Muriel, María Félix-Lizárraga, & Yuri Albores-Barajas	USE OF ARTIFICIAL NEST STRUCTURES AND VOCALIZATION BROADCASTING TO RESTORE ASHY STORM-PETRELS AT ORIZABA ROCK, SANTA CRUZ ISLAND, CALIFORNIA, IN 2008-11 William McIver , Harry Carter, A Harvey, & John Mason
1345	SPATIALLY DEFINING FORAGING DISTRIBUTIONS FOR TRIANGLE ISLAND BREEDING CASSIN'S AUKLET TO ESTIMATE EXPOSURE TO SHIP-SOURCE OIL POLLUTION AND MICROPLASTICS Patrick O'Hara , Ken Morgan, Jamie McDevitt-Irwin, J.P. Desforges, Peter Ross, & Sean Boyd	ALBATROSSES, MURRELETS AND STORM-PETRELS ON GUADALUPE ISLAND: POPULATION STATUS, DISTRIBUTION, AND ADVANCES TOWARDS THE ERADICATION OF FERAL CATS Julio Hernández-Montoya , Luciana Luna-Mendoza, Alfonso Aguirre-Muñoz, Ángeles Milanés-Salinas, Aurelio Álvarez-Higuera, & María Félix-Lizárraga	ASHY STORM PETREL RESEARCH AND CONSERVATION: PAST ACTIONS AND CURRENT NEEDS Shaye Wolf & Anna Weinstein
1400	LESSONS LEARNED FROM 15 YEARS OF MONITORING CONTAMINANTS IN SEABIRD EGGS Stacy Vander Pol , Paul Becker, Colleen Bryan, Rebecca Pugh, & David Roseneau	FROM RAT TO HAWADAX ISLAND: CHANGES IN BIRD COMMUNITIES AFTER RAT ERADICATION Gregg Howald , Stacey Buckelew, Jeffrey Williams, Nick Holmes, Bernie Tershy, & Donald Croll	Ashy Storm-Petrel Conservation and Science: Discussion
1415	MARINE PLASTIC DEBRIS MAY ACT AS AN OLFACTORY TRAP FOR PROCELLARIIFORM SEABIRDS Matthew Savoca , Martha Wohlfeil, Kathy Van Alstyne, Susan Ebeler, & Gabrielle Nevitt	IS IT POSSIBLE TO REDUCE RAT PREDATION OF ENDANGERED SEABIRDS ON KAUA'I USING AVAILABLE CONTROL METHODS? Andre Raine	
1430	QUANTIFICATION OF THE PLASTIC LOADS INGESTED BY TRISTRAM'S STORM-PETREL NESTLINGS FROM TERN ISLAND, NORTHWESTERN HAWAIIAN ISLANDS: TOWARDS MEASURING IMPACTS IN THE FIELD Sarah Youngren , Daniel Rapp, & K Hyrenbach	A COMPREHENSIVE ISLAND RESTORATION STORY: FROM DETECTION OF AN UNUSUAL MOUSE INVASION AND ITS EXPLOSION, TO ITS ERADICATION AND DERIVED BENEFITS Karina Ramos-Rendon , Federico Mendez-Sanchez, Alfonso Aguirre-Muñoz, Ana Cardenas-Tapia, Yuliana Bedolla-Guzman, & María Felix-Lizarraga	
1445	MERCURY CONCENTRATIONS IN TISSUES OF KITTLITZ'S MURRELET FROM GLACIATED AND NON-GLACIATED REGIONS IN ALASKA Leah Kenney , Robb Kaler, Michelle Kissling, Alex Bond, & Collin Eagles-Smith	HABITAT SELECTION OF CASSIN'S AUKLET IN SAN JERONIMO ISLAND, BAJA CALIFORNIA, MEXICO Mayra Garcia , Yuri Albores-Barajas, Maria Felix, & Alfonso Aguirre- Muñoz	
1500-1530	Break		

FRIDAY 20 February – Talks

(those considered for student paper award are highlighted)

	Riveria	Granada	Castillian
	Management, Policy & Planning	Restoration / Physiology	Tools & Techniques
1530	IF WE DON'T TAKE SEABIRDS SERIOUSLY THEN WHO WILL? RECONCILING THE DESIRE TO STUDY, CONSERVE, AND ADVOCATE FOR MARINE BIRDS WITHOUT LOSING CREDIBILITY George Divoky	CHANNEL ISLANDS NATIVE PLANT COMMUNITY HABITAT RESTORATION TO ENHANCE NESTING HABITAT FOR CASSIN'S AUKLETS (<i>P. ALEUTICUS</i>) AND SCRIPPS'S MURRELET (<i>S. SCRIPPSI</i>) David Mazurkiewicz , Josh Adams, A. Harvey, Andrew Yamagiwa, Marie-Eve Jacques, & James Howard	TIDAL ACTIVITY AND SEABIRD ABUNDANCE AT FINE TEMPORAL SCALES Laura Bliss , Morgan Eisenlord, Emma Schlatter, & W. Tyler
1545	MEXICAN SEABIRDS: THE WAY FORWARD Yuri Albores-Barajas , Alfonso Aguirre-Muñoz, María Félix-Lizárraga, Julio Hernández-Montoya, & Antonio Ortiz-Alcaraz	IMPACTS OF DROUGHT ON CASPIAN TERN COLONY RESTORATION IN SEMI-ARID LANDSCAPES OF EASTERN OREGON AND NORTHERN CALIFORNIA Timothy Lawes , Gregory Smith, Daniel Roby, Donald Lyons, Kirsten Bixler, & Yasuko Suzuki	GEOAVIR: AN R PACKAGE AND WEB APP FOR THE COMPUTATION OF DENSITIES OF SEABIRD AT-SEA MULTI-SPECIES DATASETS COLLECTED USING DISTANCE SAMPLING Francois Bolduc , Christian Roy, & Mehdi Adda
1600	SYNOPSIS OF SEABIRD RESEARCH PROGRAMS THAT CAN PROVIDE BASELINE AND MONITORING INFORMATION FOR OFFSHORE ENERGY ACTIVITIES IN THE PACIFIC David Pereksta , Donna Schroeder, Kevin Lafferty, & Josh Adams	NESTING SEABIRDS IN THE BAY AND THE SOUTH BAY SALT POND RESTORATION PROJECT Cheryl Strong & Laura Valoppi	NOCTURNAL SOUNDSCAPES OF SOUTHEAST FARALLON ISLAND: COMPARING SPECTRAL AND TRADITIONAL APPROACHES TO ACOUSTIC SEABIRD MONITORING Abraham Borker , Christopher Tarango, Jared Huxley, Russell Bradley, & Matthew McKown
1615	PROPOSAL FOR A MAJOR CULL OF DOUBLE-CRESTED CORMORANTS IN THE COLUMBIA RIVER ESTUARY: SCIENCE-BASED OR POLITICS-DRIVEN? Daniel Roby , Donald Lyons, Jessica Adkins, Adam Peck-Richardson, Yasuko Suzuki, & Peter Loschl	Physiology	EVALUATING ACOUSTIC MONITORING OF BREEDING WEDGE-TAILED SHEARWATERS AND BLACK NODDIES ON NORTH WEST ISLAND, AUSTRALIA AS A LOW COST AND REPEATABLE LONG TERM MONITORING METHOD Abram Fleishman , Andrew McDougall, Matthew McKown, Alexis Earl, David Savage, & Graham Hemson
		COMPARATIVE FORAGING ENERGETICS OF BREEDING CAMPBELL AND GREY-HEADED ALBATROSSES Caitlin Kroeger , Daniel Crocker, Rachael Orben, David Thompson, Leigh Torres, & Scott Shaffer	
1630	APPLICATIONS OF A MODEL-BASED U.S. ATLANTIC COAST-WIDE SYNTHESIS OF AT-SEA MARINE BIRD DISTRIBUTIONS TO OCEAN ENERGY SPATIAL PLANNING Brian Kinlan , Arliss Winship, Robert Rankin, Peter Miller, & John Christensen	ACCELEROMETRY, ACTIVITY COSTS AND DAILY ENERGY EXPENDITURE OF PELAGIC CORMORANTS Kyle Elliott , Scott Hatch, & Mason Stothart	MONITORING THE NOCTURNAL MOVEMENTS OF SEABIRDS: A COMPARISON BETWEEN STANDARD MAGNETRON RADAR, OBSERVERS USING NIGHT VISION, AND A NEXT GENERATION SOLID STATE ORNITHOLOGICAL RADAR Marc Travers & André Raine
1645	SEYCHELLES: ON THE LEADING EDGE OF MARINE SPATIAL PLANNING Joanna Smith Didier Dogley, Matt Brown & Julie Robinson		COMPARISON OF DIETS AND DIETARY SAMPLING METHODS FOR NESTING CALIFORNIA LEAST TERNS (<i>STERNULA ANTILLARUM BROWNI</i>) AT ALAMEDA POINT IN SAN FRANCISCO BAY, AND PURISIMA POINT ON THE CENTRAL CALIFORNIA COAST A. Leicht , D. Robinette, M. Elliott, & M.H. Horn
1830 - 2200	Student Mentoring		

SATURDAY 21 February - Talks

(those considered for student paper award are highlighted)

0730-1700		Registration Desk	
0815-0930	<p align="center">Announcements & Plenary David Ainley, H.T. Harvey & Associates Ecosystem Consultants FOLLOWING IN THE FOOTSTEPS OF DON QUIXOTE: IS ARGUING FOR THE IMPORTANCE OF TOP-DOWN FORCING IN SEABIRDS' FOOD WEBS MERELY TILTING AT WINDMILLS?</p>		
0930-1000		Break	
	Granada	Castillian	
	Breeding Biology	Special Paper Session 4 Conservation & Status of Shearwaters	
1000	<p>CHARACTERIZATION OF SEABIRD BREEDING ZONES IN SAN MARTÍN ISLAND, BAJA CALIFORNIA, MÉXICO Esmeralda Bravo-Hernandez, Osmín Torres, Alfonso Aguirre Muñoz, & María Félix</p>	<p>COASTAL MOULTING REGION FOR GREAT AND SOOTY SHEARWATERS – AN IMPORTANT AREA FOR PROTECTION Paloma Calabria Carvalho, Robert Ronconi, & Gail Davoren</p>	
1015	<p>NEST-SITE PREFERENCES IN BRANDT'S CORMORANT (<i>PHALACROCORAX PENICILLATUS</i>) OVER TWO MEXICAN PACIFIC ISLANDS: ASUNCIÓN AND SAN ROQUE, BIOSPHERE RESERVE EL VIZCAINO IN THREE BREEDING SEASONS Cristal Hernandez-Mendoza, Maria Felix-Lizarraga, Alfonso Aguirre-Muñoz, Alejandra Fabila-Blanco, & Yuri Albores-Barajas</p>	<p>MIGRATION AND WINTERING HABITS OF STREAKED SHEARWATERS (<i>CALONECTRIS LEUCOMELAS</i>) REVEALED BY SATELLITE TRACKING Chang-Yong Choi, Jong-Gil Park, Gil-Pyo Hong, Kyung-Gyu Lee, Hyun-Young Nam, & Hee-Young Chae</p>	
1030	<p>TURN OF EVENTS: ENVIRONMENTAL TEMPERATURES AND ARTIFICIAL NEST HABITATS INFLUENCE INCUBATION BEHAVIORS OF A BURROW NESTING SEABIRD Emma Kelsey, Russ Bradley, Pete Warzybok, Jaime Jahncke, & Scott Shaffer</p>	<p>PROJECTING THE POPULATION OF AUDUBON'S SHEARWATER IN THE CARIBBEAN USING SURVEY DATA AND AREA OF UNSURVEYED COLONIES William Mackin</p>	
1045	<p>CALIFORNIA LEAST TERN REPRODUCTIVE SUCCESS AND CALIFORNIA GULL PREDATOR MANAGEMENT IN THE EAST BAY REGIONAL PARK DISTRICT David Riensche, Nicole Beadle, Sarah Gidre, Tierra Groff, Sharon Dulava, & Christopher Kitting</p>	<p>SATELLITE-TRACKED SOOTY SHEARWATERS (<i>PUFFINUS GRISEUS</i>) RESPOND TO SPATIO-TEMPORAL WIND VARIABILITY IN THE CALIFORNIA CURRENT Melinda Nakagawa, Josh Adams, & Jim Harvey</p>	
1100	<p>PREDATOR DISTURBANCE DURING COURTSHIP DRIVES COLONY DYNAMICS OF ELEGANT TERNS, <i>THALASSEUS ELEGANS</i>, IN THE SOUTHERN CALIFORNIA BIGHT Chelsea Rankin & Michael Horn</p>	<p>STATUS AND DEMOGRAPHIC RATES OF THE CHRISTMAS SHEARWATER ON KURE ATOLL Eric VanderWerf, David Smith, & Cynthia Vanderlip</p>	
1115	<p>MALE AND FEMALE AGE AND IDENTITY INFLUENCE BREEDING TRAITS IN THE NAZCA BOOBY (<i>SULA GRANTI</i>) Emily Tompkins, Katharina Foerster, & David Anderson</p>	<p>SPS-4 Conservation & Status of Shearwaters: Discussion</p>	
1130	<p>YOUR NIGHT TO COOK: COORDINATED FORAGING IN MANX SHEARWATERS (<i>PUFFINUS PUFFINUS</i>) DURING CHICK REARING Chris Tyson, Holly Kirk, Annette Fayet, Ben Dean, & Tim Guilford</p>	<p>Foraging Ecology</p>	
1145		<p>COASTAL OR OFFSHORE, WARM OR COLD WATER: INDIVIDUAL VARIABILITY IN FORAGING PATTERNS OF NORTHERN GANNETS IN THE GULF OF ST. LAWRENCE, EASTERN CANADA Stefan Garthe, Jean-Francois Rail, Ulrike Kubetzki, Anna-Marie Corman, & Bill Montevecchi</p>	
		<p>FISH ASSOCIATED WITH JELLYFISH AS A FOOD SOURCE FOR THICK-BILLED MURRES IN BERING SEA Nobuhiko Sato, Nobuo Kokubun, Takashi Yamamoto, Yutaka Watanuki, Alexander Kitaysky, & Akinori Takahashi</p>	
1200-1330		Lunch (PSG Members Meeting – all welcome)	

SATURDAY 21 February - Talks

(those considered for student paper award are highlighted)

	Granada	Castillian
	Climate Change	Foraging Ecology
1330	SEABIRD DIE-OFF DETECTED DURING A MAJOR COCCOLITHOPHORE BLOOM IN THE BERING SEA IN 2014 Elizabeth Labunski , Kathy Kuletz, Ed Farley, Alex Andrews, & Lisa Eisner	CASSIN'S AUKLET DISTRIBUTION IN RELATION TO KRILL "HOTSPOTS" IN THE CENTRAL CALIFORNIA CURRENT SYSTEM Suzanne Manugian , Meredith Elliott, Ben Saenz, Nina Karnovsky, Nadav Nur, & Jaime Jahncke
1345	DEMOGRAPHIC IMPACTS OF CLIMATE VARIABILITY ON CASSIN'S AUKLETS: PROJECTING DYNAMICS OF THE FARALLON ISLANDS POPULATION IN AN UNPREDICTABLE ENVIRONMENT Nadav Nur , Derek Lee, Russell Bradley, Peter Warzybok, Meredith Elliott, & Jaime Jahncke	DRIVERS OF INTER-COLONY AND INTER-ANNUAL VARIABILITY IN THE DIET OF COMMON MURRES (<i>URIA AALGE</i>) IN THE NORTHERN CALIFORNIA CURRENT SYSTEM Alessandra Jimenez , Rob Suryan, Amanda Gladics, Russell Bradley, Julia Parrish, & Jaime Jahncke
1400	POTENTIAL CLIMATE IMPACTS ON 'IMPORTANT BIRD AREAS' IN THE BERING SEA AND ALEUTIAN ISLANDS: APPLICATION OF A SCALABLE CHANGE DETECTION TOOL Aaron Poe , Melanie Smith William Koeppen, Katherine Kuletz, Heather Renner, Ellen Tyler, Tom Van Pelt, & Jeremy Littell	INTERCOLONY AND AGE RELATED DIFFERENCES IN GARBAGE USE BY WESTERN GULLS IN NORTHERN CALIFORNIA Anne Cassell , Hillary Young, Peter Warzybok, Russell Bradley, Jaime Jahncke, & Scott Shaffer
1415	EXPOSURE OF THREATENED SEABIRD BREEDING ISLANDS TO CHANGING SEA LEVELS Dena Spatz , Kelly Newton, Don Croll, Bernie Tershy, Nick Holmes, & Stuart Butchart	TRASH BIRDS? COMPARATIVE FORAGING ECOLOGY OF WESTERN GULLS FROM MULTIPLE COLONIES IN CENTRAL CALIFORNIA Scott Shaffer , Corey Clatterbuck, Emma Kelsey, Pete Warzybok, Russell Bradley, & Jaime Jahncke
1430	EFFECTS OF SEA-LEVEL RISE AND WAVE-DRIVEN INUNDATION ON COLONIAL SEABIRDS AT MIDWAY ATOLL Karen Courtot , Michelle Reynolds, Paul Berkowitz, Janet Moore, & Elizabeth Flint	MODELING AND MAPPING HIGH-USE FORAGING HABITAT FOR MIGRANT AND VISITING SEABIRDS IN CENTRAL CALIFORNIA Anna Studwell , Ellen Hines, Barbara Holzman, Meredith Elliot, Nadav Nur, & Jaime Jahncke
1445	DELVING INTO DOVEKIE DIVING; WINNERS OR LOSERS IN A WARMING ARCTIC Nina Karnovsky , Zachary Brown, Derek Young Wojciech Walkusz, Alexander Kitaysky, & Ann Harding	CALIFORNIA CURRENT PREDATOR DIET DATABASE: SEABIRDS AND FORAGE SPECIES Amber Szoboszlai , Julie Thayer, & William Sydeman
1500-1530	Break	
Silent Auction bidding closes at 1515!		

SATURDAY 21 February - Talks

(those considered for student paper award are highlighted)

	Granada	Castillian
	Population Biology	Foraging Ecology
1530	POPULATION TRENDS OF RED-FACED CORMORANTS IN THE BERING SEA AND ALEUTIAN ISLANDS OF ALASKA Jeff Williams , Marc Romano, & Douglas Causey	VARIABILITY IN FORAGING BEHAVIOR OF MASKED BOOBIES (<i>SULA DACTYLATRA</i>) BREEDING AT ISLA MUERTOS, MEXICO Caroline Poli , Patrick Jodice, & Autumn-Lynn Harrison
1545	TOP-DOWN INFLUENCE OF BALD EAGLES ON THE COMMON MURRE BREEDING POPULATION IN OREGON Cheryl Horton , Robert Suryan, & Katie Dugger	SEABIRD AND CETACEAN ASSOCIATIONS WITH PREY, BATHYMETRY, AND HYDROGRAPHIC FEATURES IN NORTHWEST ATLANTIC SUBMARINE CANYONS DURING SUMMER 2010 Timothy White , Gareth Lawson, & Peter Wiebe
1600	THE IMPORTANCE OF AGE STRUCTURE AND LIFE HISTORY: INCREASING ENSO FREQUENCY LEADS TO DECREASED POPULATION VARIANCE IN BRANDT'S CORMORANT Annie Schmidt , Louis Botsford, D. Patrick Kilduff, John Eadie, Russell Bradley, & Jaime Jahncke	FORAGING AREAS OF MACARONI PENGUINS (<i>EUDYPTES CHRYSOLOPHUS</i>) IN THE SOUTH ATLANTIC AND SOUTH INDIAN OCEAN Annette Scheffer , Charles-André Bost, Ben Lascelles, Phil Trathan, & Norman Ratcliffe
1615	LESSONS FROM A METAPOPULATION IN PERIL: THREE COLONIES' RESPONSES TO VARIATION IN ECOLOGICAL AND MANAGEMENT ENVIRONMENTS Lauren Scopel & Antony Diamond	DIETARY SPECIALISATION IN GENTOO PENGUINS SUGGESTS A SEASONAL INCREASE IN INTRA-SPECIFIC COMPETITION Norman Ratcliffe , Stacey Adlard, & Phil Trathan
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Free Time		
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Poster Presentations

ABSTRACTS are available on the PSG website. A hard copy is available for viewing at the Registration Desk.

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1	SPITTING KOILINS: A POTENTIAL COUNTERMEASURE AGAINST THE PARASITIC LOAD IN CHINSTRAP PENGUINS (<i>PYGOSCELIS ANTARCTICUS</i>) Hankyu Kim , Minsu Jeong, Chang-Yong Choi, and Woo-Shin Lee	Behavior
2	BEHAVIOUR OF PROSPECTING AND ADULT AUKLETS Christy Wails* and Heather Major	Behavior
3	LONG TERM STUDY OF KITTLITZ'S MURRELET BREEDING BIOLOGY ON KODIAK ISLAND Robin Corcoran , Timothy Knudson, James Lawonn, James Lovvorn, John Piatt, and Ellen Lance	Breeding Biology
4	SCRIPPS'S MURRELET REPRODUCTIVE MONITORING ON SANTA BARBARA ISLAND, CALIFORNIA, 2009 – 2014 James Howard , A Harvey, David Mazurkiewicz, Renee Robison, Kevin Barnes, and Sasha Auer	Breeding Biology
5	BROWN PELICAN FLEDGING SUCCESS AND DIET IN THE NORTHWESTERN GULF OF MEXICO: POTENTIAL DRIVERS OF CHANGING REGIONAL DISTRIBUTION Juliet Lamb and Patrick Jodice	Breeding Biology
6	MARbled MURRELET NEST SITE SELECTION AT THREE SPATIAL SCALES S. Nelson , Thomas Hamer, Jay Jones, and Jake Verschuyf	Breeding Biology
7	WESTERN SNOWY PLOVER NEST SITE SELECTION AND OYSTER SHELL ENHANCEMENT David Riensche , Nicole Beadle, and Sarah Gidre	Breeding Biology
8	IT TAKES TWO TO TANGO: AN INVESTIGATION OF PARENTAL CARE DISTRIBUTION IN A SCRIPPS' MURRELET NEST Molly Shallman , Kevin Barnes, Sasha Auer, A. Laurie Harvey, and Nina Karnovsky	Breeding Biology
9	HERE'S THE SCOOP ON SKUA POOP: THE REPRODUCTIVE SUCCESS AND DIETS OF SOUTH POLAR SKUAS BREEDING ON KING GEORGE ISLAND Miranda Starr , Andrea Sartorius, Susan Woods, Sue Trivelpiece, Wayne Trivelpiece, and Nina Karnovsky	Climate Change
10	USING CO ² CONCENTRATIONS AS A NON-INVASIVE TECHNIQUE TO DETERMINE OCCUPANCY OF BURROWS IN LEACH'S STORM-PETRELS, <i>OCEANODROMA LEUCORHOA</i> Joshua Hincks , Amy Miles, Marcel Losekoot, and Gabrielle Nevitt	Conservation Biology
11	CONSERVATION STATUS OF SHORT-TAILED ALBATROSS Ellen Lance	Conservation Biology
12	MONITORING SEABIRDS ON REFUGES IN HAWAII AND THE PACIFIC A REVIEW: PAST, PRESENT, FUTURE Jared Underwood and Elizabeth Flint	Conservation Biology
13	AVIAN CHOLERA CAUSES MARINE BIRD MORTALITY IN THE BERING STRAIT REGION OF ALASKA Barbara Bodenstein , Kimberlee Beckmen, Gay Sheffield, Kathy Kuletz*, Caroline VanHemert, and Valerie Shearn-Bochsler	Contaminants and Marine Debris
14	DEVELOPING A BASELINE OF HEALTH FOR MARINE AND ESTUARINE BIRDS EXPOSED TO FRESHWATER ALGAL TOXINS ALONG THE MONTEREY BAY COAST Corinne Gible and Raphael Kudela	Contaminants and Marine Debris

Bold indicate presenter, shaded number indicates considered for student paper award

#	Poster Session & Reception - All Welcome! Thursday 19 February - Monte Carlo	Topic
15	WHAT CAN PREY DELIVERY RATES TELL US ABOUT FOOD AVAILABILITY FOR CASPIAN TERNS? Kirsten Bixler , Donald Lyons, Peter Loschl, Timothy Lawes, and Daniel Roby	Foraging Ecology
16	THE BIGGER THE BEAK, THE FASTER YOU SEEK: PROVISIONING PATTERNS OF PELAGIC CORMORANTS Ramoncito Caleon , Sophie Wang, James Canepa, Diane Hichwa, and Nina Karnovsky	Foraging Ecology
17	SEXUAL SIZE DIMORPHISM AND SEXUAL SEGREGATION IN FORAGING DISTRIBUTIONS IN LAYSAN ALBATROSS FROM GUADALUPE ISLAND, MEXICO Julio Hernández-Montoya , Carlo Catoni, Alfonso Aguirre-Muñoz, Cecilia Soldatini, Luciana Luna-Mendoza, and Yuri Albores-Barajas	Foraging Ecology
18	DIVING DEEP INTO CASSIN'S AUKLETS DIVING BEHAVIOR Nicole McDuffie , Pete Warzybok, Russ Bradley, Jaime Jahncke, and Nina Karnovsky	Foraging Ecology
19	THE EFFECT OF LOW TIDE TEMPERATURE ON LIMPET SUSCEPTIBILITY TO BLACK OYSTERCATCHER PREDATION Rachel Pound and Jennifer Burnaford	Foraging Ecology
20	EFFECTS OF HUMAN VISITATION ON SHOREBIRD ABUNDANCE AND FORAGING BEHAVIOR IN ROCKY INTERTIDAL HABITATS OF SOUTHERN CALIFORNIA Lindsey Williamson and Jayson Smith	Foraging Ecology
21	AMBON – A US ARCTIC MARINE BIODIVERSITY OBSERVING NETWORK THAT INCLUDES SEABIRDS Katrin Iken, Bodil Bluhm, Eric Collins, Lee Cooper, Seth Danielson, and Kathy Kuletz	Management Policy Planning
22	ASSESSING THE POTENTIAL IMPACT OF OFFSHORE WIND FARMS ON SEABIRDS IN THE CALIFORNIA CURRENT SYSTEM Emma Kelsey , David Pereksta, and Josh Adams	Management Policy Planning
23	PATTENS OF SEABIRD PRESENCE AT FUTURE WAVE ENERGY SITES ON THE CENTRAL OREGON COAST Jessica Porquez , Robert Suryan, Ian Throckmorton, and Amanda Gladics	Management Policy Planning
24	COORDINATING SEABIRD CONSERVATION ALONG THE EAST ASIAN – AUSTRALASIAN FLYWAY Mayumi Sato , Yat-Tung Yu, Mark Carey, and Paul O'Neill	Management Policy Planning
25	COMMUNITY-BASED SEABIRD CONSERVATION AND MANAGEMENT AT IMPORTANT BIRD AND BIODIVERSITY AREA (IBA) Yutaka Yamamoto , Mayumi Sato, Ben Lascelles, and Seiji Hayama	Management Policy Planning
26	INVESTIGATION OF CASSIN'S AUKLET MORTALITY IN THE EASTERN PACIFIC DURING THE 2014 POST-BREEDING SEASON Laird Henkel , Jan Roletto, Jessie Beck, Barbara Bodenstein, David Bradley, and Russell Bradley	Non-breeding Biology
28	WHAT IS THE PHYSIOLOGICAL INDICATORS OF THE SEABIRD BODY CONDITION IN BLOOD COMPONENTS AND HORMONES? Yukiko Inoue , Yasuaki Niizuma, Kaoru Kohyama, Wataru Goshima, Naoki Yoshikawa, and Hiroshi Minami	Physiology
27	REPRODUCTIVE SUCCESS AND SUB-COLONY PERSISTENCE AT A CORMORANT COLONY ON THE OREGON COAST Ian Throckmorton , Jessica Porquez, Cheryl Horton, Shawn Stephensen, Roy Lowe, and Robert Suryan	Population Biology

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30	CHANGES IN SEABIRD BREEDING POPULATION SIZES IN THE NORTH CENTRAL COAST REGION OF CALIFORNIA, 1989 TO 2010-2012 Gerard McChesney , Harry Carter, Crystal Shore, Sandra Rhoades, Russell Bradley, and Pete Warzybok	Population Biology
31	STATUS AND TRENDS OF RED-LEGGED KITTIWAKES IN ALASKA Marc Romano , Jeffrey Williams, and Heather Renner	Population Biology
32	RICHNESS AND DISTRIBUTION OF SEABIRDS IN SEVEN MEXICAN NORTH PACIFIC ISLANDS Fernando Solis , María Lizarraga, Alfonso Aguirre-Muñoz, Cristal Hernández-Mendoza, Alejandra Fabila-Blanco, and Yuri Albores-Barajas	Population Biology
33	CALIFORNIA GULL (LARUS CALIFORNICUS) POPULATION GROWTH AND RESPONSE TO TIDAL MARSH RESTORATION IN SOUTH SAN FRANCISCO BAY Jason St. Pierre , Catherine Burns, Erika Taketa, Karine Tokatlian, Josh Scullen, and Natalie Washburn	Population Biology
34	FROM OIL SPILLS AND HAZARDOUS RELEASES TO RESTORATION: SEABIRD RESTORATION PROJECTS IMPLEMENTED THROUGH THE NATURAL RESOURCE DAMAGE ASSESSMENT (NRDA) PROCESS Jennifer Boyce , Steve Hampton, Laird Henkel, Annie Little, Carolyn Marn, and Janet Whitlock	Restoration and Eradication
35	FROM CONTAMINATION TO RESTORATION: THE NATURAL RESOURCE DAMAGE ASSESSMENT (NRDA) PROCESS Steve Hampton , Jennifer Boyce, Laird Henkel, Carolyn Marn, and Janet Whitlock	Restoration and Eradication
36	RESTORING SEABIRD BREEDING COLONIES INVADED BY RATS AND OTHER INTRODUCED MAMMALS IN JAPAN AND KOREA Kuniko Otsuki and S. Kim Nelson	Restoration and Eradication
37	SEABIRD YOUTH NETWORK POSTER Carley Bourdukofsky , Chauncey Bourdukofsky, Miles Bourdukofsky, Nathan Bourdukofsky, Leslie Jones and Heather Kozloff	SPS: Community Based Seabird Conservation
38	THE RELATIONSHIP BETWEEN ENDANGERED HUTTON'S SHEARWATER (PUFFINUS HUTTONI) FALLOUTS AND LIGHT BULB TYPE Nola Shi , Max Borella, Sharyn Goldstein, and Nina Karnovsky	SPS: Conservation Status of Shearwaters
39	USE OF DIGITAL AERIAL IMAGERY AND ONLINE GIS TO ESTIMATE COLONY SIZE AND AREA FOR GROUND-NESTING SEABIRDS: BETTER TOOLS FOR MONITORING SEABIRD POPULATIONS Peter Loschl , Daniel Roby, Aaron Turecek, Mike Hawbecker, James Tennyson, and Donald Lyons	Tools and Techniques
40	ALASKA MARITIME NATIONAL WILDLIFE REFUGE EFFORTS TO ARCHIVE 40 YEARS OF SEABIRD MONITORING DATA IN DATABASES Nora Rojek	Tools and Techniques
41	TESTING ACOUSTIC RECORDERS AND REMOTE CAMERAS TO MONITOR BREEDING POPULATIONS OF LEACH'S STORM-PETREL Robert Suryan , Amanda Gladics, Bill Bridgeland, Shawn Stephensen, Roberta Swift, and Daniel Roby	Tools and Techniques

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43	TRACKING THE TRACKED: A GLOBAL REVIEW OF THE EVOLUTION OF TECHNOLOGICAL MEASURES USED TO DESCRIBE SEABIRD BEHAVIORS AT SEA Halie Arimitsu , Heather Robinson, Emma Kelsey, David Pereksta, and Josh Adams,	Tracking and Distribution
44	FORAGING ECOLOGY AND SPATIAL OVERLAP AT SEA AMONG THREE PELECANIFORM SEABIRD SPECIES BREEDING ON LEHUA ISLET, HAWAII Jonathan Felis , Josh Adams, Seth Judge, Robert Henry, and David Pereksta,	Tracking and Distribution
45	INDIVIDUAL CONSISTENCY OF MIGRATION ROUTE AND ACTIVITIES OF BLACK-TAILED GULL Mizuho Nagata , Ken Yoda, Yuichi Mizutani, and Yasuaki Niizuma	Tracking and Distribution
46	WHO'S IN THE 'HOOD (AND HOW MANY ARE THERE)? Leslie Slater	Tracking and Distribution
47	OVERWINTERING BEHAVIOUR OF CLOSELY RELATED SYMPATRIC DIVING SEABIRDS: THICK-BILLED AND COMMON MURRES Takashi Yamamoto , Nobuo Kokubun, Dale Kikuchi, Nobuhiko Sato, Akinori Takahashi, and Alexander Kitaysky	Tracking and Distribution
48	SOCIAL ATTRACTION TECHNIQUES FOR SEABIRDS RESTORATION ON TODOS SANTOS ISLAND, BAJA CALIFORNIA, MEXICO Nuria Meza-Cuellar , Alfonso Hernandez- Rios, Alfonso Aguirre-Muñoz, Maria Felix-Lizarraga, & Yuri Albores-Barajas	Conservation

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Your Notes

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PSG Annual Meetings 1974-2015

#	Location (USA, unless indicated)	Meeting Dates
1	Providence Heights Education and Conference Center, Issaquah, WA	6-8 Dec 1974
2	Asilomar Conference Grounds, Pacific Grove, CA	12-14 Dec 1975
3	Asilomar Conference Grounds, Pacific Grove, CA	6 Jan 1977
4	British Columbia Museum, Victoria, BC, Canada	19-21 Jan 1978
5	Asilomar Conference Grounds, Pacific Grove, CA	13-16 Dec 1978
6	Asilomar Conference Grounds, Pacific Grove, CA	23-26 Jan 1980
7	University of Arizona, Tuscon, AZ	19-21 Nov 1980
8	Seattle Aquarium, Seattle, WA	6-9 Jan 1982
9	Hawaiian Regent Hotel, Waikiki Beach, Honolulu, HI ¹	1-3 Dec 1982
10	Asilomar Conference Grounds, Pacific Grove, CA	5-8 Jan 1984
11	Hyatt Regency, Long Beach, CA	13-16 Dec 1984
12	Holiday Inn-Financial District, San Francisco, CA ²	4-8 Dec 1985
13	Universidad Autonoma de Baja California Sur, La Paz, Mexico	10-14 Dec 1986
14	Asilomar Conference Grounds, Pacific Grove, CA	16-20 Dec 1987
15	National 4H Center, Washington, DC ³	12-16 Oct 1988
17	Royal British Columbia Museum, Victoria, BC, Canada	22-25 Feb 1990
18	Asilomar Conference Grounds, Monterey, CA	23-27 Jan 1991
19	Oregon Institute of Marine Biology, Charleston, OR	15-19 Jan 1992
20	Westin Hotel, Seattle, WA	9-13 Feb 1993
21	Radisson Hotel, Sacramento, CA	26-29 Jan 1994
22	Catamaran Resort Hotel, San Diego, CA	10-13 Jan 1995
23	Victoria Conference Centre, Victoria, BC, Canada	8-12 Nov 1995
24	Marriott, Portland, OR	8-12 Jan 1997
25	Monterey Bay Aquarium, Monterey, CA	21-25 Jan 1998
26	The Inn at Semi-Ah-Moo, Blaine, WA	24-28 Feb 1999
27	The Napa Valley Marriott Hotel, Napa, CA	23-26 Feb 2000
28	Kauai Beach Resort, Lihue, HI	7-11 Feb 2001
29	Santa Barbara Museum of Natural History, Santa Barbara, CA	20-23 Feb 2002
30	Tigh-Na-Mara Resort and Conference Centre, Parksville, BC, Canada	19-22 Feb 2003
31	Hotel Los Arcos, Baja California Sur México, La Paz, Mexico	21-25 Jan 2004
32	Hilton Portland and Executive Tower, Portland, OR ⁴	19-23 Jan 2005
33	Alyeska Prince Hotel and Resort, Girdwood AK	15-19 Feb 2006
34	Asilomar Conference Grounds, Pacific Grove, WA	7-11 Feb 2007
35	Semiahmoo Resort, Blaine, WA	27 Feb - 1 Mar 2008
36	Hakodate Kokusai Hotel, Hakodate, Japan	22-25 Feb 2009
37	The Westin Hotel, Long Beach, CA	17-21 Feb 2010
38	Victoria Conference Centre, Victoria, BC, Canada ⁵	7-11 Sep 2010
39	Turtle Bay Resort, Oahu, HI	7-11 Feb 2012
40	Hilton Portland and Executive Tower, Portland, OR	20-24 Feb 2013
41	Centennial Hall Convention Center, Juneau, AK	19-22 Feb 2014
42	San Jose Airport Garden Hotel, San Jose, CA	18-21 Feb 2015

¹ Joint Meeting of Pacific and Australasian Seabird Groups; first joint meeting of any of the five world's seabird groups

² First Joint Meeting of the Colonial Waterbird Group and PSG

³ Second Joint Meeting of the Colonial Waterbird Society and PSG

⁴ Third Joint Meeting of the Waterbird Society and PSG

⁵ First Meeting of the World Seabird Conference, with PSG



Photo credit: Ross Wanless

2nd WORD SEABIRD CONFERENCE

“Seabirds: Global Ocean Sentinels”¹

October 26 – 30, 2015

Cape Town International Convention Centre, Cape Town, South Africa

Hosted by: *World Seabird Union and The African Seabird Group*

For information on abstract submission, conference registration, accommodation, Early Career Scientist initiatives and to sign up for our newsletter visit

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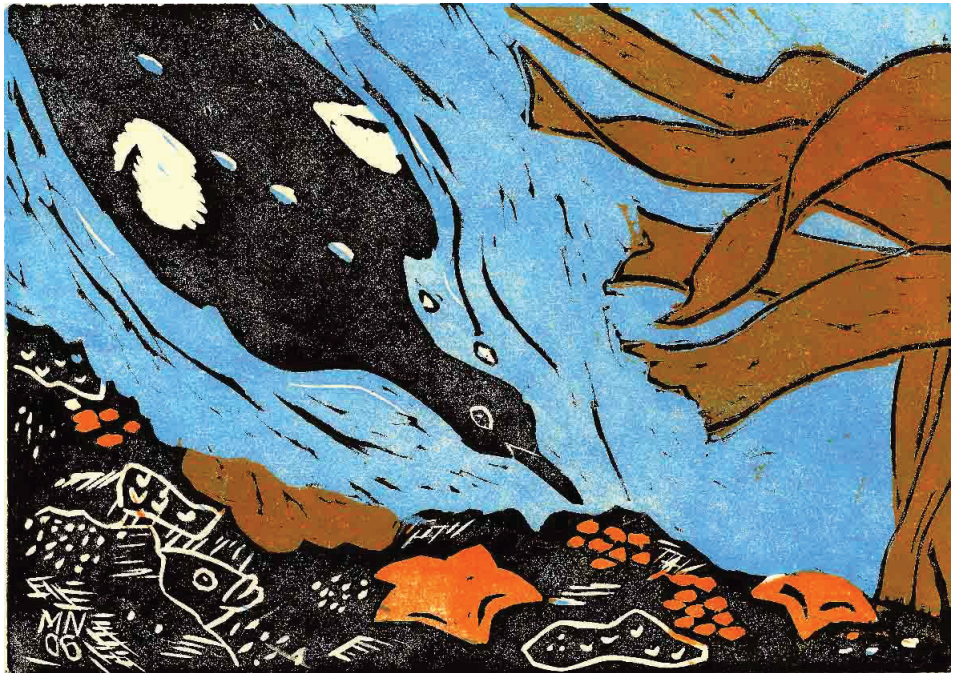
Conference Themes / Session Topics

- Causes and consequences of ind. variability
- From movement ecology to pop. dynamics
- Outcome based seabird conservation
- Advances in seabird demographic studies
- Potential for seabird rescue from climatic and anthropogenic threats
- Evolutionary physiology
- Climate change signals in the ocean
- Seabirds as prey
- Host-parasite interactions
- Pop. ecology of penguins
- Tropical seabird foraging ecology
- Ecosystem services of Arctic Seabirds
- Skuas/Jaegers: travelers between poles
- Effects of offshore windfarms on seabirds
- Seabird population health
- Seabirds as indicators of ocean health
- Seabirds and oil spills
- Impacts of marine debris
- Mitigating researcher disturbance on seabirds
- From tracking data to marine IBAs
- Challenges of seabird bycatch in small fisheries
- One third for the birds
- Community-based seabird conservation
- Restoration of seabird nesting islands
- Management & science in establishing new seabird colonies
- Advancing gadfly petrel conservation
- International agreements and seabird conservation

Local Organizing Committee Chair: Ross Wanless
 Scientific Programme Committee Chair: Peter Ryan



World Seabird Union



42: 'So long, and thanks for all the fish'
-Douglas Adams