



Luc Declerck

University of California, San Diego

PRDLA/PNC Meeting

October 17-22, 2004

Academia Sinica, Taipei

What is it?

A digital collection of ocean-related primary resources from:



Scripps Institution of Oceanography
Archives



UCSD Libraries

University of California, San Diego
Libraries



San Diego Historical Society

Purpose



To provide the citizens of California with online access to a diverse array of resources about the Pacific ocean and ocean exploration.

Content



- Reports of 18 historic expeditions
- Ship's logs
- Photographs
- Sailor's letters home
- Oral histories
- Maps
- Fish Bulletin from 1913 to present
- Fish catch "landing" statistics from 1916
- Publications about the oceans

Amount

- 20,500 pages of text
- 7,245 images
- 2,105 images (representing 558 complex objects)
- 70 sound files
- 1 movie



Genesis of project

- Begun in 2002
- With a \$213,000 LSTA grant to digitize 4 expeditions
- Followed by NSDL grant to digitize another 12 expeditions
- Self-funded additions since



Technology

- **Digitization techniques**

- **Text**

- SGML-encoded, Level 4 then converted to XML full TEI
 - Checked for accuracy, consistency, parsed, and enhanced by SPI Technologies

- **Images**

- Scanned at 600 ppi TIFF, serving mid-size JPEG

- **Sound**

- MP3

- **Movies**

- QuickTime

- **Metadata**

- Custom-designed Extended Dublin Core, 58 elements

- **Presentation tools**

- CONTENTdm (DiMeMa, Inc.)
 - Michigan's DLXS software
 - Microsoft Excel
 - Standard web viewers



Homepage

CALIFORNIA
Explores the Ocean

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Expeditions | Photographs & Other Media | Fish Bulletin | Publications & Other Resources | Contributors

Inside...

 Roger Revelle takes Scripps to the Pacific.



Listen as a fisherman recounts the rise and fall of the tuna industry.



70 years of fish catch statistics.



...and more.

CALIFORNIA EXPLORES THE OCEAN

California Explores the Ocean provides access for the citizens of California to a diverse array of resources about the ocean and ocean exploration from the unique collections of the Scripps Institution of Oceanography Archives and Library and to a selection of ocean related photographs and oral histories from the collections of the San Diego Historical Society. Primary funding provided by an LSTA grant.



Expeditions

Explore the ocean on research vessels of the Scripps Institution of Oceanography; see expedition photographs, reports, ship's logs, maps and sailor's letters home.

Photographs & Other Media

View thousands of images and listen to oral histories that document the importance of ocean exploration from institutions such as the San Diego Historical Society and the Scripps Institution of Oceanography.

Fish Bulletin

Wide variety of general interest and specialized topics from the Calif. Dept. of Fish and Game.

Publications & Other Resources

A selection of publications on the ocean and related activities in California.

Contributors

Expeditions: Indopac expedition

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Expeditions

Scripps Institution of Oceanography

- 1907 Alexander Agassiz Expedition
- 1939 Gulf of California Expedition
- 1940 Gulf of California Expedition
- 1950 MidPac Expedition
- 1952 Capricorn Expedition
- 1952 Shellback Expedition
- 1953 Transpac Expedition
- 1955 NORPAC Cruise
- 1957-1958 Downwind Expedition

SCRIPPS INSTITUTION OF OCEANOGRAPHY

Indopac Expedition, 1976-1977




Indopac Expedition, 1976-1977 - Home

INDOPAC was a cooperative international expedition consisting of some 15 legs on THOMAS WASHINGTON. The expedition investigated the deep circulation of the waters, the nature of the crust beneath the sea floor in the marginal basins of the western Pacific Ocean in cooperation with CHIU LIEN, SAMUDERA, and ATLANTIS II. One of the most significant accomplishments of the cruise was the recovery of live benthic amphipods from 5700 meters in pressure retaining traps. This was the first successful attempt to recover and maintain live deep-sea benthic animals in the laboratory. Legs 4, 5 and 6 provided preliminary site surveys for the International Program of Ocean Drilling series of drill sites across the marginal basins of the Philippine Sea.

- Report
- Letters, Clippings, Ships' Logs
- [Published Research](#)
- Photos & Other Media
- Indopac Home

Ship's Report




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[Texts](#) > [Scripps Institution of Oceanography Publications](#)

Cruise Report, INDOPAC Expedition Legs 4, 5, 6, 7, and 8

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Search within this document:
 

Contents:

[ABSTRACT](#)

*University of California, San Diego
Marine Physical Laboratory of The Scripps Institution of
Oceanography
San Diego, California 92152*

**Cruise Report, INDOPAC Expedition Legs 4, 5, 6, 7,
and 8**

SIO REFERENCE 77-5

Edited by

George G. Shor, Jr. and Stuart M. Smith

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F. N. Spiess, Director Marine Physical Laboratory 21 March 1977

Ship's Report: Text



[Texts](#) > [Scripps Institution of Oceanography Publications](#)

Cruise Report, INDOPAC Expedition Legs 4, 5, 6, 7, and 8

- **INDOPAC LEG 6 CHIEF SCIENTIST: FRANCIS P. S**

- [Chronology](#)

+ **INDOPAC LEG 7 CO-CHIEF SCIENTISTS: ELI SILVER, WILLIAM PATZERT**

+ **INDOPAC LEG 8 CHIEF SCIENTIST: GEORGE C. S**
ACKNOWLEDGEMENTS
PUBLICATIONS RESULTING
THIS WORK

+ **INDOPAC EXPEDITION APPENDIX Pe**
Sample Locations and Stat

This leg started with the running of a line of soundings and seismic profiles down along the submarine fault scarp on the east side of Taiwan. We discovered a new fault trough somewhat south of the previously known Okinawa Trough that runs into the land near the northern tip of the island. Many deep submarine canyons were indicated along the fault scarp.

The main purpose of leg 6 was to investigate the currents in submarine canyons on the slope off the Abra Delta in northwest Luzon. Our current meters recorded what we consider to be a turbidity current that shows a great contrast to the ordinary canyon currents. We have now seen the same type of current in records off La Jolla and in the valley off the Rio Balsas Delta in western Mexico. These are virtually the first complete records of turbidity currents in existence (one other off the Var River in southern France). It is significant that we have found indications of turbidity currents in the delta-front valleys in both areas where we have used current meters. On the other hand our numerous records in the canyons of many other areas have yielded only one example. This suggests that turbidity currents are much more common in these delta-front valleys than elsewhere.

Photographs

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- Photographs

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- Oral Histories

Image Use & Copyright

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- SIO Archives

corresponding description.

Tip Search Tips

- Use quotation marks to search for exact phrases.
- Search terms are not case sensitive.
- Truncation: **whal*** finds whale, whales, whaling, etc.
- It's not necessary to use "and" between keywords.

Collection

San Diego Historical Society ▾

[Advanced Search](#)



1. Coming into Keelung, food's ready



2. Keelung, Taiwan



3. Keelung, Taiwan



4. Keelung, Taiwan



5. Keelung, Taiwan



6. Temple above Harbor in Keelung

Photograph: Keelung Harbor, Taiwan

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Identifier: [caljsioa_2003-05-08-1024_m.jpg](#)

Title: [Keelung, Taiwan](#)

Photographs: MidPac Expedition, 1950

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Sailor's letters home, 1952

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OCT 12 1952

Dear Mother,
you dashed off in such a rush,
and amid such confusion, that I didn't
get a chance to thank you for all the
work that helped me get ready for this
trip. Well anyway, I want to thank
you for everything. As usual I have
more stuff aboard than any two others
combined. But even so, they all ready have

Oral histories

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San Diego Historical Society

Advanced Search

ORAL HISTORY PROGRAM

SAN DIEGO HISTORICAL SOCIETY

25. An interview with Jerry MacMullen

ORAL HISTORY PROGRAM

SAN DIEGO HISTORICAL SOCIETY

26. An interview with Joaquin (Jack) S. Theodore

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SAN DIEGO HISTORICAL SOCIETY

27. An interview with Katherine (Tasaki) Segawa

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28. An interview with Katie Asaro

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29. An interview with Lawrence (Larry) Canepa

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30. An interview with Leonard Ingrande

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31. An interview with Lora F. Wright

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SAN DIEGO HISTORICAL SOCIETY

32. An interview with Mary E. Addis

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Fish Bulletin

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Fish Bulletin

- [Fish Catch Statistics Database](#)
- [Calif. Dept. of Fish and Game](#)

FISH BULLETIN - CALIF. DEPT. OF FISH AND GAME

The California Department of Fish and Game's Fish Bulletin is a core resource for the study of fish and fisheries in California.

Continuously published as a monographic series since 1913, but slowing down publication in recent years, the Fish Bulletin contains in-depth monographs on a variety of topics, primarily marine, and also including some non-fish marine species. Some Fish Bulletin titles are of specialized interest to scientists, state officials, and those with fishery management interests. Many Fish Bulletin titles however are of general public interest, constituting general works on marine species. These general interest titles cover marine fish (including specific titles on sardine, grunion, halibut, tuna, etc), sharks, sea lions, clams/mussels, abalone, squid, historical shore whaling, historical commercial fishing, etc.



No. 1: Abalone/Towing Fry/Lobster/Clams/Crab Cancer Magister/Quinnat Salmon/Trout, Black Bass Planting

No. 2: Scientific Investigation of Marine Fisheries, as Related to the Work of the Fish and Game Commission in Southern California

No. 3: Spawning of the Grunion

No. 4: Edible Clams, Mussels and Scallops of California

Fish Bulletin

No. 60: Systematic Study of the Pacific Tunas

No. 61: Results of Tagging Experiments in California Waters on the Sardine

No. 62: Catch per-Unit-of-Effort in California Waters of the Sardine, 1932-1942

No. 63: Commercial Fish Catch of California for the Years 1943 and 1944

No. 64: Biology of the Soupfin and Biochemical Studies of the Liver

No. 65: Analysis of Populations of the Pacific Sardine on the Basis of Vertebral Counts

No. 66: Drift and Set Line Fishing Gear in California

No. 67: Commercial Fish Catch of California for the Years 1945 and 1946

No. 68: Common Marine Fishes of California

No. 69: Age and Length Composition of the Sardine Catch off the Pacific Coast of the United States and Canada, 1941-42 through 1946-47

No. 70: Preliminary Population Study of the Yellowfin Tuna and the Albacore

No. 71: Growth of the Sardine 1941-42 Through 1946-47

No. 72: Trawling Gear in California

No. 73: Tagging Experiments on the Pacific Mackerel

No. 74: Commercial Fish Catch of California for the Year 1947 With an Historical Review 1916-1947

No. 75: California Sharks and Rays

No. 76: Average Lunar Month Catch by California Sardine Fishermen 1932-33 Through 1948-49

No. 77: Comparison of the Bluefin Tunas, Genus *Thunnus* From New England, Australia and California

No. 78: Life History of the Steamy Flounder

Fish catch statistics

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- Institutions & Organizations
- Resource Directories

FISH BULLETIN'S FISH CATCH STATISTICS

CATCHES / LANDINGS / SHIPMENTS / PRODUCTS		
Download		Description
Text	Excel	Tables Showing the Monthly Catches Landed in California by Districts for the two Calendar Years [year] and [year]
Text	Excel	Monthly Landings and Shipments of Commercial Fish into [area] During [year]
Text	Excel	Yearly Landings in Pounds
Text	Excel	Monthly Landings from Inland Waters During [year]
Text	Excel	California Commercial Troll Salmon Landings by Port-Area, Month, and Species, in Pounds and Numbers [year]
Text	Excel	California Ocean Recreational Salmon Landings and Success by Fishery, Port, Month and Species, in Numbers of Fish [year]
Text	Excel	Inshore Bait Landings by Area, Pounds, and Value [year]
Text	Excel	Recorded Catch of Live Bait for Saltwater Sportfishing [year]-[year]
Text	Excel	Statewide Commercial Partyboat Catch by Species (not including anchored barges) [year]-[year]
Text	Excel	Fresh Fish Importations by Point of Origin, [year]

Excel spreadsheet

Address <http://ceo.ucsd.edu/fishcatchtables/excel/m.xls>

A1

	F	G	H	I
1	Yearly Landings in Pounds			
2	kind	species	year	weight
3		Sardine	1945	845063000
4		Yellowfin Tuna	1945	87448000
5		Pismo Clam	1945	53440000
6		Pacific Mackerel	1945	53717000
7		Skipjack Tuna	1945	33348000
8		Albacore	1945	21336000
9		Bluefin Tuna	1945	20594000
10		Squid	1945	15226000
11		Salmon	1945	13381000
12		Rockfish	1945	13286000
13		Jack Mackerel (Horse Mackerel)	1945	9033000
14		Sole	1945	7755000
15		Sablefish	1945	6259000
16		Crab	1945	4346000
17		Barracuda	1945	3873000
18		Yellowtail	1945	3534000
19		Bonito Tuna	1945	2714000
20		Abalone	1945	2447000
21		Shark	1945	2438000
22		Smelt	1945	2369000

Metadata: Public display

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Identifier: [caljsioa_mc4402650004m.jpg](#)

Title: [Group photo on fantail of R/V HORIZON, MidPac Expedition: Back: Jim Snodgrass, Art Maxwell, Jeff Frautschy, Lew Garrison, Ned Barr; Front: Russ Raitt, Ken Emery, Bob Dill, Roger Revelle, Ed Hamilton, Ed Brayton, Tom Runyon, Bob Huffer, Dick Morita squatting in front.](#)

Collection Title: [Edwin L. Hamilton Papers, 1933-1993](#)

Creator: [Scripps Institution of Oceanography](#)

Date: [1950-00-00](#)

Physical Description: [B&W glossy print](#)

Source Dimensions: 5 x 7

Location Depicted: [North Pacific Ocean; Madeira \(Madeira Islands\)](#)

Expedition Name: [Midpac Expedition](#)

Genre:

Subjects: [Oceanographers](#)
[MidPac Expedition](#)

People: [Raitt, Russell W.](#)
[Emery, K. O. \(Kenneth Orris\), 1914-; Dill, Robert Floyd, 1927-; Revelle, Roger, 1909-1991; Hamilton, Edwin L. \(Edwin Lee\), 1914-; Morita, Richard Y. Snodgrass, James Marion, 1908-1994; Maxwell Arthur Eugene, 1925-](#)

Lessons learned



- If you build it, they will come
 - 3,847 visits per month
 - 128 visits per day
- Interest in collection from unexpected places
 - From Australia, Canada, France, Japan, Mexico, Netherlands, Norway, Poland, Philippines, Saudi Arabia, Singapore, UK
- Interest in collection from unexpected audience
 - Artists, sociologist, graphic designers
 - Sailors, alumni
 - Children, K-12

Lessons learned

- Small grant can serve as catalyst, launching changes in infrastructure, policies, and procedures
- Creating good metadata is worth every penny
- Digital objects have value on their own
- Digital objects are of interest for a multiplicity of reasons: politics, art, history, sociology, environmental science, leisure, etc



Lessons learned



- Thematic digital collections are siloed
- Thematic collections are difficult to navigate by non-experts
- Once built, digital collections need to be maintained and preserved (life-cycle management)
- If small portion of Archive is online, users think that all content is online

Maturing vision



- Move all digital objects into generic repository
- Offer Google-like search tools across all collections
- Assume life-cycle management responsibility

End



URL

<http://ceo.ucsd.edu>

Contact

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dday@ucsd.edu