

Ray G. Peterson Papers

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Summary Information

Repository	Special Collections & Archives
Creator	Peterson, Ray G., 1952-2001
Title	Ray G. Peterson Papers
Date	1837-2004
Extent	1.85 Linear feet (4 manuscript boxes, 1/2 legal manuscript box, 1 map folder)
Language	English

Preferred Citation

Ray G. Peterson Papers, SMC 84. Special Collections & Archives, UC San Diego.

Biographical Note

After working as a meteorologist for the US Navy, Ray Peterson received his Ph.D. at Texas A&M University in 1987 under Worth Nowlin, measuring the transport and dynamics of the Antarctic Circumpolar Current through Drake Passage. His research was based on observations from the cruises and moorings of the International Southern Ocean Studies (ISOS) program. His postdoctoral work was done from 1988-1990 at the Institut für Meereskunde in Kiel, Germany, under Gerold Siedler, measuring the circulation in the South Atlantic Basin from R/V *Polarstern*.

Peterson came to SIO in 1991 as an assistant research oceanographer and was promoted to associate research oceanographer in 1997. While at SIO he continued his studies of the circulation in the Southern Ocean, collaborating with Warren White on the Antarctic Circumpolar Wave, an oceanic/atmospheric wave circling the Southern Ocean which was considered controversial at the time of his research.

Peterson also worked with Janet Sprintall on establishing high-resolution XBT sections across Drake Passage and started a program of repeated temperature measurements from the US Antarctic supply vessel to Palmer Station. He also collaborated with Argentine scientists Alberto Piola and Ricardo Matano, and with German scientists aboard *Polarstern*. He published what was probably the earliest work using ALACE (Autonomous Lagrangian Circulation Explorer) floats in the Southern Ocean.

Teresa Chereskin and Peterson began a time series in the California Current using a free falling Conductivity, Temperature and Density (CTD) profiler called the "Fast Fish," which was developed by WHOI engineers under WOCE (World Ocean Circulation Experiment.) He also worked with Russ Davis on the Lagrangian drifter measurements of the Malvinas Current. Peterson passed away at the age of 49 on December 6, 2001 after a long illness. He was survived by his wife, Dorothy Nowroozian-Peterson.

Scope and Contents

The Ray Peterson Papers consist of correspondence, field reports, proposals, manuscripts, and reprints documenting his research on ocean currents, the Southern Ocean, and the Antarctic Circumpolar Wave. The collection also contains teaching materials for Oceanography 608, and copies of historical maps, charts, and texts used by Peterson for a paper on early concepts of ocean circulation.

Administrative Information

Publication Information

Special Collections & Archives 2011

Controlled Access Headings

Subject(s)

- Oceanography -- History

Collection Inventory

	Box	Folder
Antarktis X/5 Cruise Report, 1992	1	1
South Atlantic Review, 1991	1	2
Bottom Press - Tide Gauge, 1988	1	3
Wind-Transport, 1988	1	4
Boundary Currents - Originals, 1992	1	5
Ring Paper, 1982	1	6
Whitworth and Peterson, 1985	1	7
Drifter Paper, 1985	1	8
Abyssal Boundary Cruise Studies (ABCS) Cruise Paper, 1986	1	9
Fronts Paper, 1989	1	10
South Atlantic Current, 1990	1	11
Agulhas History, 1992	1	12

Peterson, Ray G., Publications

Arnold Gordon, 1987	1	13
South Pacific Current, 1995	1	14
Indian Ocean Cruise, 1995	1	15
Peterson, Ray G., Publications		
	Box	Folder
1992-1995	1	16
1996-1997	1	17
Oceanography 608, Spring 1985		
	Box	Folder
1981-1985	1	18-19
Slides, 1981-1985	1	20
	Box	Folder
Pressure Gauge Papers, 1991	1	21
Pressure Gauges - Viewgraphs, undated	1	22
Southern Ocean Data - Viewgraphs, undated	2	1

Tides and Sea Level

Lagrangian - Malvinas, 1996	2	2
Benguela Current, 1989	2	3
SWAP in Oceanography (Southwest Atlantic Ocean), 1995	2	4
Fahrbach, et al, Weddell Sea, 1994	2	5
FRAM (Fine Resolution Antarctic Model), 1990	2	6
Dissertation Defense Viewgraphs, undated	2	7
Southern Ocean Atlas Maps, 1989	2	8
Tides and Sea Level		
	Box	Folder
1951-1975	2	9
1976-1986	2	10
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Progress in Oceanography, 1996	2	11
Early Concepts and Charts of Ocean Circulation, 1996	2	12
Dissertation		

Malvinas Paper

	Box	Folder
Negatives of Figures for Dissertation Papers in JGR, undated	2	13
1987 December	2	14
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Malvinas Paper		
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1972-1996	3	1
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Reports, Proposals, 1998-2001	3	3
Peterson, Ray, 1997-1998	3	4
Notes, 1997-2001	3	5
Proposals		
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1997-2001	3	7

Reprints

	Box	Folder
Commonwealth Scientific and Industrial Research Organization (CSIRO) Marine Research, 1999	3	8
Reprints		
	Box	Folder
undated	3	9
1971-1989	3	10
1990-1993	3	11
1994-1995	4	1
1996-1997	4	2
1998-1999	4	3
2000-2001	4	4
Progress in Oceanography		
	Box	Folder
1989	4	5
1996	4	6

Maps and Charts

	Box	Folder
Aspects of the Thermohaline Circulation in a Simple Model 2000 September 19	4	7
On the World Ocean Circulation, Volume I 1996 June	4	8
South Western Atlantic Circulation Experiment 2000 January 1	4	9
Western South Atlantic Circulation Experiment 1999 January 1	5	1
South Atlantic Climate Change 1996 October	5	2
Inter-American Institute for Global Climate Change - IAI, 1996 August 12-14	5	3
Berichte zur Polarforschung/Reports on Polar Research, 1992	5	4
Figures for 2 Dissertation Papers, 1988-1989	5	5
Maps and Charts		
		Oversize
Peterson-Whitworth (1989) Fronts Paper, 1989		Map Case 105-01
Oceanographic Atlas of the North Atlantic Ocean. Section II: Physical Properties. Publ. No. 700, 1967		Map Case 105-01

Maps and Charts

Deutsches Hydrographisches Institut, 1989	Map Case 105-01
Versuch Einer Karte zur Übersicht der Fluthwellen (reproduction), 1838	Map Case 105-01
Warme Meeresstrom des Atlantischen und der Kalte Strom des Grossen Oceans (reproduction), 1852	Map Case 105-01
Karte vom Grossen Ocean (Mare Pacifico) (reproduction), 1837	Map Case 105-01
Karte vom Atlantischen Ocean (reproduction), 1837	Map Case 105-01
Physikalische Karte vom Indischen Meere (reproduction), 1840	Map Case 105-01
Kieler Forde, 1988-1990	Map Case 105-01
Argentine Basin/Scotia Sea/Mid-Atlantic Ridge, undated	Map Case 105-01