

Accession No.: 92-34

PROCESSING RECORD
SCRIPPS INSTITUTION OF OCEANOGRAPHY ARCHIVES

Williams, M. Woodbridge. 1917-

M. Woodbridge Williams Papers, 1914-2000

Physical Description: 9 mss; 2-1/2 mss; 6 shoe boxes; 1,231 slides

Description: The collection consists of the papers of M. Woodbridge Williams and includes newspaper clippings, photographic prints, negatives, and slides. Includes images of SIO faculty & staff, work at sea, social events, marine life, oceanographic institutions. & M/S Stranger. Includes photographs taken by Hazel Schreiber. "Woody" Williams was a professional photographer who was a graduate student and laboratory technician at SIO from January 1947 to February 1948.

The accession includes over 1,000 original negatives, hundreds of photographic slides and prints, transparencies, and papers of "Woody" Williams, a professional photographer who was a graduate student and laboratory technician at the Scripps Institution of Oceanography from January 1947 to February 1948. The collection consists largely of photographic negatives, prints and slides taken at SIO by Williams in 1947 and 1948, including images of work at sea, social events, photographs of marine life and marine environments, and photographs of individuals

The collection includes photographs of Samuel Stillman Berry, Brian Boden, Wesley Coe, Gifford Ewing, Denis Fox, Samuel Hinton, Joel Hedgpeth, Carl Hubbs, John Isaacs, Douglas Inman, Martin Johnson, Karl Kenyon, Roger Revelle, Marston Sargent, Francis Shepard, Robert Wisner and others. Most photographs are in black and white, but there are some color transparencies

The accession includes some images taken of marine biologists and work at sea undertaken by other oceanographic institutions including the Hancock Foundation, UCLA, the California Academy of Sciences and a few private individuals. The accession includes photographs and descriptions of the voyages of M.S. STRANGER owned by Fred E. Lewis during the period 1934-1937 when it was used for cruises by the sea scouts. Williams' papers include letters, journals and other material describing voyages of M.S. STRANGER, especially the 1937 cruise to Alaska

The accession includes a few photographs dated 1914 which were taken by Hazel Schreiber and show scenes in Inverness, Point Reyes and Drakes Bay. Ms. Schreiber gave her original negatives to Williams. The accession includes a small quantity of biographical information on Williams and a small quantity of correspondence describing his career as a nature photographer

M. Woodbridge Williams**Papers, 1914-2000****Accession Number 92-34**

BOX	FOLDER TITLE
1	Papers, n.d.
	Papers, n.d.
	Papers, n.d.
	Papers, n.d.
	Papers, n.d.
	Papers, (1928-1940) M.S. STRANGER, M.S. Utowana, M.S. Stranger, M.S. Moana, M. Woodbridge Williams
	Papers, 1933
	Papers, August 1934, Personal log of Raymond Wallace, M.S. STRANGER
	Papers, 1935-1936, Notes by Jonny Blaich, M.S. STRANGER
	Papers, 1935
	Papers, May-October 1936, From the log of Henry Pfaendler, M.S. STRANGER
	Papers, 1937
	Papers, 1937, From the Log of Carl Reynolds, M.S. STRANGER
	Papers, 1937, At Balboa between trips, May 1-June 10, 1937, From log of Carl Reynolds, M.S. STRANGER
	Papers, 1937, Cruise to the far North, From the Log of Carl Reynolds, June 10-September 16, 1937, M.S. STRANGER
	Papers, 1937, Diary of Carl Reynolds, July 21-September 16, 1937
	Papers, 1937, Excerpts from the Log of Fred Ross, M.S. STRANGER

BOX	FOLDER TITLE
1	Papers, 1938
	Papers, 1937, Strangers in Alaska, by Woody Williams, M.S. STRANGER
	Papers, 1939
	Papers, 1940
	Papers, 1945
	Papers, c1946
	Papers, 1946
	Papers, 1947
	Papers, 1948
	Papers, 1949
	Papers, 1950
	Papers, 1951
	Papers, 1952
	Papers, 1953
	Papers, 1954
2	Papers, 1955
	Papers, 1956
	Papers, 1957
	Papers, 1958
	Papers, 1959
	Papers, January-June 1960
	Papers, July-December 1960

BOX	FOLDER TITLE
2	Papers, January-June 1961
	Papers, July-December 1961
	Papers, 1962
	Papers, 1963
	Papers, 1964
	Papers, 1965
	Papers, 1966
	Papers, 1967
	Papers, 1968
	Papers, 1969
	Papers, 1970
	Papers, 1971
	Papers, 1972
	Papers, 1973
Papers, 1974	
3	Papers, 1975
	Papers, 1976
	Papers, January-September 1977
	Papers, October-December 1977
	Papers, 1978
	Papers, January-July 1979
Papers, August-December	

BOX	FOLDER TITLE
3	Papers, January-June 1980
	Papers, July-December 1980
	Papers, January-June 1981
	Papers, July-December 1981
	Papers, 1982
	Papers, January-June 1983
	Papers, July-December 1983
	Papers, January-February 1984
	Papers, March-May 1984
	Papers, June-September 1984
	Papers, October-December 1984
4	Papers, January-June 1985
	Papers, July-December 1985
	Papers, January-June 1986
	Papers, July-December 1986
	Papers, 1986, Roster of Crew Members and Biographies, 50 Year Reunion, Trips to Galapagos, South Pacific and Alaska, 1935, 1936, 1937, by M. Woodbridge Williams
	Papers, January-June 1987
	Papers, July-December 1987
	Papers, 1988
	Papers, January-June 1989

BOX	FOLDER TITLE
4	Papers, July-December 1989
	Papers, January-June 1990
	Papers, July-December 1990
	Papers, 1990, The last trip of the M.S. STRANGER, Log by Bob Shaw
	Papers, January-April 1991
	Papers, May-June 1991
	Papers, July-September 1991
	Papers, October-December 1991
	Papers, 1991, The History of Ship No. 5060 (M.S. STRANGER) by Sea Scout John A. Blaich
	Papers, January-June 1992
	Papers, July-December 1992
	Papers, January-May 1993
	Papers, June-December 1993
	5
Papers, 1995	
Papers, January-June 1996	
Papers, July-December 1996	
Papers, 1997	
Papers, 1998	
Papers, May-December 1999	
Papers, January-April 1999	

BOX	FOLDER TITLE
5	Papers, 2000
	Papers, 2001
	Papers, 2002
	Williams, Woodbridge, "Field Trip" essay, n.d.
	[Suggested Procedure for Processing Collections of the Museum of the Scripps Institution of Oceanography, Sam D. Hinton, M.W. Williams, July 18, 1947]
	n.d., Newspaper clippings, M. Woodbridge Williams
	Newspapers clippings, 1947
	1949-1959, Newspaper clippings
	Newspaper clippings, 1962
	Newspaper clippings, 1965
	Newspaper clippings, 1967
	Newspaper clippings, 1977
	Newspaper clippings, 1978
	Newspaper clippings, 1978
	Newspaper clippings, 1979
	1980, Newspaper clippings
	1981 Newspaper clippings
	1982, Newspaper clippings
	1983, Newspaper clippings
	Newspaper clippings, 1984

BOX	FOLDER TITLE
5	Newspaper clippings, 1985
	Newspaper, clippings, 1986
	Newspaper clippings, 1987
	Newspaper clippings, 1988
	Newspaper clippings, 1989
	Newspaper clippings, 1990
	1991, Newspaper clippings
	Newspaper clippings, 1992
	1993, Newspaper clippings
	Newspaper clippings, 1996
	Newspaper clippings, 1997
	Newspaper clippings, 1998
	Newspaper clippings, 1999
6	Newspaper clippings, 2000
	Newspaper clippings, 2001
	Newspaper clippings, 2002
	[Indexes, Notes to images]
	Prints, n.d., no photographer
	Prints, no number, no date, no caption
	Prints, n.d., no number
	Prints, n.d., Scripps Institution of Oceanography
	1914-1916, Annual meetings at Drakes Bay, 6 B/W original nitrate negatives

BOX**FOLDER TITLE**

- 6 1916, San Diego Exposition, 15 B/W original nitrate negatives, photography by Woodbridge Williams' father
- 1916, San Diego Exposition, 16 B/W prints made from original nitrate negatives, Photography by Woodbridge William's father
- Circa 1936 [negative 113-114], B/W Original nitrate negative
- Prints, no number, 1937
- Feb 25, 1937-July 7, 1937, M.S. STRANGER, 36 B/W original nitrate negatives
- July 10, 1937-Sep 1937, M.S. STRANGER, 36 B/W original nitrate negatives
- March 2, 1938, Flood at Claremont, [negative 94, 95, 96, 97, 98, 99 and 112], 7 B/W original nitrate negatives
- C1939, [negative 90, 111, 115] 3 B/W original nitrate negatives
- Prints, no number, 1945
- Prints, no number, 1946
- Prints, no number, 1946
- Prints, no number, 1947
- Prints, no number, 1948
- C1950, Low tide at Dillon's Beach, 2 5x7 original negatives
- Prints, no numbers, 1950's
- Prints, no number, 1950
- Prints, no number, 1951
- Prints, no number, 1952
- Photographic Prints, Bayard and Evelyn McConnaughey, 1955, 1993-1996

BOX	FOLDER TITLE
6	Prints, no number, 1956
7	Prints, no number, 1957
	Prints, no number, 1958
	Prints, no number, 1961
	Prints, 1962
	Prints, no number, 1982
	Prints, no number, 1997
	Prints, Negative 10-43
	Prints, Negatives no. 44-121
	Prints, Negatives no. 126-217
	Prints, Negatives no. 218-379
	Prints, Negatives no. 407-456
	Prints, Negatives no. 490-659
	Prints, Negatives no. 708-951
	Prints, Negatives no. 1032-1362
	Prints, Negatives no. 1362-1860
8	Prints, Negatives no. 1883-1934
	Prints, Negatives no. 1931-1939
	Prints, Negatives no. 1949-2016
	Prints, Negatives no. 2019-2037-3
	Prints, Negatives no. 2037-4-2037-19
	Prints, Negatives no. 2038-2104

BOX	FOLDER TITLE
8	Prints, Negatives no. 2104-2125
	Prints, Negatives no. 2125-2162
	Prints, Negatives no. 2162-2252
9	Prints, Negatives no. 2252-2325-5
	Prints, Negatives no. 2325-6 – 2325-13
	Prints, Negatives no. 2336-5534
	Prints, Negatives no. 6301-145878
	Prints, Negatives no. 15502-1 – 15502-7
	Prints, Negatives no. 15502-8 – 226501
	Slides 1959-1986
	n.d. [Roll 20, 21, XII, XXII, XIII] 35mm B/W original negatives
	n.d. [Roll 6, 7, 8, 9, 11] 35mm B/W original negatives
	n.d. [Roll 1, 2, 3, 4, 5] 35mm B/W original negatives
	n.d. [Roll 14, 15, 16, 18, 19] 35mm B/W Original negatives
	n.d. [Roll 150, 17, ?, ?] 35mm B/W original negatives
	Negatives, 35mm, Scammon's Lagoon, Kern Kenyon
	Negatives, 35mm, Marine life, San Diego, California
	Negatives, 35mm, Feeding topical butterflies, Trinidad, n.d.
	Negatives, 35mm, Arum? Trinidad
	Negatives, 35mm, [Bat] Web star Patiria minata on tank glass, n.d.
	Negatives, 35mm, Red Tide Gynodidium breve
	Negatives, 35mm, Red Tide Gynodidium breve

BOX	FOLDER TITLE
9	<p>Negatives, 35mm, Scammon's Lagoon, Kern Kenyon, n.d.</p> <p>Negatives, 35mm, C.K. Tseng, Kern Kenyon, n.d.</p> <p>C1939-October 1946, 35mm B/W original negatives</p> <p>Nov. 1946-c1948, 35mm B/W Original negatives</p> <p>Negatives, Scripps c1948</p>
10	<p>1948, Scripps, 35mm B/W original negatives</p> <p>1948, [Negative 125] 110 35mm B/W Original negatives</p> <p>Negatives, 35mm, Steinhart Aquarium, c1949</p> <p>C1965, [Roll 1] 35mm B/W Original negatives</p> <p>Negatives 211, Wasatch Mountains, Arizona</p> <p>Negatives, 35mm, King Crab 2187 2115, n.d.</p> <p>Negatives 2438, Cape Hatteras Lighthouse</p> <p>Negatives 3353, Lichen Rocks Sugar Loaf Mtn., Maryland</p> <p>Negatives, 35mm, Emerald Isle, North Carolina D23553, n.d.</p> <p>Negatives, 35mm, [Underwater] August 31, 1967, D22485</p> <p>Negatives, 35mm, Hatteras, 1970's, CH70-1</p> <p>Negatives, 35mm, [Beach] 1978, 101935-1</p> <p>Negatives, 145878-1, Nagoya, Japan, 1980</p> <p>Negatives, 35mm, [Oyster, Virginia] October 26, 1980, 167947-1</p> <p>Negatives, 35mm, Sea Elephants, Adam Cove, July 1984, 226501-1</p> <p>Negatives, 35mm, Edinburgh Castle Construction, 1989</p>

BOX	FOLDER TITLE
10	Transparencies 2321, Taking water samples with Nansen bottles
11	Papers, 1958
	Papers, 1978
	Papers, 1991
12	Negatives
13	Negatives
14	Negatives
15	Negatives
16	Negatives
17	Negatives

SLIDE	TITLE
1 a	Sea Urchin divers [by] north side [of] San Miguel Island, 7/84
2 a	High tide and seas wash over Fur seal rookery, Adams Cove, San Miguel Island, 7/18
3 a	Western Sea Gulls clean Adams Cove, San Miguel Island of placenta, 7/84
4 a	Sea Lion with dead pup, San Miguel Island, 7/48
5 a	California Sea Lion with dead pup, San Miguel Island, 7/48
6 a	Western sea gulls clean Adams Cove, San Miguel Island of Sea Lion placenta, 7/48
7 a	Western sea gulls clean Adams Cove, San Miguel Island of Sea Lion placenta, 7/48
8 a	California Sea Lion pup, San Miguel Island, 7/84
9 a	California Sea Lions and pups, Adams Cove, San Miguel Island, California, 7/48
10 a	Preparing to tag seals, Adams Cove, San Miguel Island, July 12, 1984
11 a	Hiking to recovery site, San Miguel, July 12, 1984
12 a	Leaving NMFS Lab, Jameyson and Kenyon, 7/84
13 a	“Pack-horses” Perryman and Antonelis [carrying equipment and supplies], San Miguel Island, 7/84
14 a	Ed Jameyson, San Miguel Island, 7/84
15 a	Karl W. Kenyon, San Miguel Island, July 1984
16 a	[California Sea Lions on San Miguel Island]
17 a	Male California Sea Lions swarm over female in estrus, Adams Cove, San Miguel Island, July 1984
18 a	Young male California Sea Lions swarm over female in estrus, 7/84
19 a	Males surround female California Sea Lion in estrus, Adams Cove, San Miguel Island, July 1984

SLIDE	TITLE
20 a	“Stop crowding me!” N Elephant Seal, California sea lions, San Miguel Island 7/84
21 a	[California Sea Lion in cage]
22 a	[California Sea Lion in cage]
23 a	Point Bennett at Dusk, San Miguel Island, July 1984
24 a	California Sea Lions, Adams Cove, San Miguel Islands, 7/84
25 a	Rock southwest coast near Judith Rock, San Miguel Island, 7/84
26 a	South shore, San Miguel, 7/84
27 a	California Sea Lions, San Miguel Island, 7/84
28 a	Fur seal rookery overwhelmed by southwest gale and high tide, Adams Cove, San Miguel Island, 7/84
29 a	San Miguel rocky south coast, 7/84
30 a	Karl W. Kenyon
31 a	[Three people capturing a sea lion on the beach]
32 a	[People with captured sea lion]
33 a	[People with captured sea lion]
34 a	Ornithologist Mark Segge, UC Davis, San Miguel Island, July 8, 1984
35 a	High and dry, point Bennett
36 a	California Sea Lion comes ashore amid Harbor Seals, North shore, San Miguel Island, 7/84
37 a	Bath Beach Pete’s Camp, George Antonelis, Wash Day Spring, North Shore, San Miguel Island, July 1984
38 a	Crust from tar, which it rolled in on beach, on California Sea Lion
39 a	Pup sea lion, Western gulls, San Miguel Island, Adams Cove

SLIDE	TITLE
40 a	[Sea lions and pups on beach]
41 a	North Fur Seal, Adams Cove, San Miguel Island, 7/84
42 a	“A good scratch, keeping cool, flood pond”, North Fur Seal pup, Adams Cove, San Miguel Island, 7/84
43 a	Karl Kenyon, bath and laundry, Pete’s Cove, North side San Miguel Island, 7/84
44 a	Castle Rock
45 a	California Sea Lions [in] fog, 7/84
46 a	Chumash ceremonies site, San Miguel Island, 7/84
47 a	High seas and tide wash over North Fur Seal rookery, Adams Cove, San Miguel Island, 7/84
48 a	Chumash ceremonies site, San Miguel Island, 7/84
49 a	High tides and southwest seas wash over fur seal rookery, San Miguel, Adams Cove, 7/84
50 a	California Sea Lions [in] fog, San Miguel Island, 7/84
51 a	Off to sea, California Sea Lions, San Miguel Island, 7/84
52 a	California Sea Lions and western gulls, San Miguel Island, Adams Cove, 7/84
53 a	“Snooze” [Sea lion sleeping], San Miguel Island, 7/84
54 a	Dead sea lion, San Miguel Island, 7/84
55 a	Sea lion windrow southwest shore, San Miguel Island, 7/84
56 a	“Male has ‘Mange’” North Fur Seal, Adams Cove, San Miguel Island, 7/84
57 a	Male and pup, North Fur Seal, San Miguel Island, Adams Cove, 7/84
58 a	Entrance to Catalina Harbor
59 a	Isthmus, Catalina Island
60 a	[Wrigley Memorial Garden plaque]

SLIDE	TITLE
61 a	North Fur Seals, Adams Cove, San Miguel, 7/84
62 a	Young Elephant Seal, San Miguel Island, 7/84
63 a	Young north Elephant Seals, Adams Cove, San Miguel Island, 7/84
64 a	“A quiet moment” California Sea Lion harem, Adams Cove, San Miguel Island, 7/84
65 a	California Sea Lions, young northern Elephant Seals, San Miguel Island, Point Bennett, July 84
66 a	Karl Kenyons
67 a	Population distribution, San Miguel Island, July 1984
68 a	California Sea Lion on northern Elephant Seal, San Miguel Island
69 a	California Sea Lions, northern shore, San Miguel Island, July 1984
70 a	Male California Sea Lion and breeding females, San Miguel Island, July 1984
71 a	Visitors, Marine Mammal Lab, San Miguel 7/84
72 a	San Miguel Island, California Sea Lions
73 a	Government worker, San Miguel Island
74 a	NMFS Lab and quarters
75 a	Chumash ceremony site, San Miguel Island
76 a	Point Bennett fog at sunset, San Miguel Island, 7/84
77 a	Fog light – sunset [at] Point Bennett, San Miguel Island, 7/84
78 a	[Sea lions on beach]
79 a	Young California Sea Lions, San Miguel Island, 7/84
80 a	California Sea Lions, San Miguel Island, 7/84
81 a	Adams Cove, San Miguel Island, 7/84

SLIDE	TITLE
82 a – 84 a	California Sea Lion, San Miguel, 7/84
85 a	“Fog shrouds tents of biologists” Adams Cove, San Miguel Island, 7/84
86 a	Gulls and North Fur Seals, Point Bennett, San Miguel Island
87 a	Catalina tiles
88 a	“Setting up radio frequency scanning receiver, strip chart recorder, Antonelis Perryman tracking of sea lions at sea, San Miguel, Adams Cove, 7/84
89 a	Male sea lion radio tagging, Adams Cove, San Miguel Island, 7/84
90 a	Installing transmitter [on] back of sea lion, Adams Cove, San Miguel Island, 7/84
91 a	Female sea lion radio tagging with restraining board, Adams Cove, San Miguel Island, 7/84
92 a	Transmitter attached to back of California Sea Lion (system does no damage to animal)
93 a	Radio attached to back of female California Sea Lion heads for beach, radio transmits only on shore, telling scientist when she is on the beach
94 a	Restraining board, and sea lion, Adams Cove, San Miguel Island, 7/84
95 a	Clipped flipper for I.D., 7/84
96 a	Radio tracking installation, [seal with] restraining board, San Miguel Island, 7/84
97 a	Holding pen, Adams Cove, San Miguel Island, 7/84
98 a	Pilot military chopper delivering parts for new John to NMFS lab, San Miguel
99 a	San Miguel Talk on pinniped – by Karl Kenyon to NPS visitors, Adams Cove, 7/84
100 a	Drift bottle with message, north shore, San Miguel Island
101 a	Drift bottle with message, north shore, San Miguel Island
102 a	Foggy morning, NMFS lab, above Adams Cove, San Miguel Island, 7/84
103 a	Islander 2 stol plane, Kenyon – Jameyson, Airport, July 1/84

SLIDE	TITLE
104 a	San Miguel Airport, E Jameyson, escort with motorbike, Karl Kenyon, July 1, 1994, Kenyon – Williams luggage and car
105 a	Sea lion tagging, Adams Cove, San Miguel Island, 7/12/84
106 a	Sea lion tagging, Adams Cove, San Miguel Island, July 12/84
107 a	Fur seal count, Ed Jameyson, spotting scope, 7/84
108 a	Ed Jameyson
109 a	[Ed Jameyson using spotting scope]
110 a	Ed Jameyson, daily pup count
111 a	Capture radio tag, Jameyson Costa, Perryman Antonelis, Adams Cove, San Miguel, 7/84
112 a	Wayne Perryman, Antonelis set up tracking station, Adams Cove, San Miguel Island, 7/84
113 a	Glassing Adams Cove, San Miguel Island, Antonelis, Costa, Jameyson, Note Floor ponds, 7/84
114 a	Radio is attached to back of female sea lion for tracking when on land
115 a	On a rare clear day, scientist glass south coast of San Miguel
116 a	Radio tracking, Adams Cove, San Miguel, Antonelis, Perryman, 7/84
117 a	Glassing the herd, radio tracking, Adams Cove, Antonelis, Costa, 7/84
118 a	Young north Elephant Seal, Adams Cove, San Miguel Island, 7/84
119 a	Dusting with sand, north Elephant Seal, Adams Cove, San Miguel Island, 7/84
120 a	Flat out California Sea Lion, San Miguel Island, 7/84
121 a	Young Elephant Seals, Adams Cove, San Miguel Island, 7/84
122 a	Young Elephant Seals, Adams Cove, San Miguel Island, 7/84
123 a	California Sea Lions, Adams Cove, San Miguel Island, 7/84

SLIDE	TITLE
124 a	North Elephant Seal, Adams Cove, San Miguel Island, 7/84
125 a	Checking seals for radio tag, Adams Cove, San Miguel Island, 7/84
126 a	Wayne Perryman and friend, Adams Cove, San Miguel Island, 7/12/84
127 a	Sea lion tagging, Adams Cove, San Miguel Island, July 12, 1984
128 a	White surticamouflage, Antonelis sets out to radio tag sea lions, Adams Cove, San Miguel Island, July 12/84
129 a	Collecting scat, Adams Cove, 7/84
130 a–131 a	[Ed Jameyson using spotting scope]
132 a	Ed Jameyson in blind, daily pup count, 7/84
133 a	Weather station, 7/84
134 a	[Ed Jameyson]
135 a	Storage shed, seal lab, San Miguel Island, 7/84
136 a	Female sea lion roundup for radio tags, Adams Cove, San Miguel Island, July 12, 1984
137 a	Sea lion tagging, July 12/84
138 a	Sea lion tagging, Adams Cove, San Miguel Island, 7/12/84
139 a	Sea lion tagging, Adams Cove, San Miguel Island, July 12, 1984
140 a-141 a	Dr. Ann Muscat, director, Catalina Science Center, USC, August 1986
142 a	Virginia. Sharp top, Peas of Otter, Blue Ridge Parkway by Abbott Lake
143 a	New York, USA. Cavern Cascade, Watkins Glen State Park
144 a	Catalina tile, Wriggly Estate, California USA
145 a	Great sand dunes, national monument, Colorado USA
146 a	Great sand dunes, national monument, Colorado USA

SLIDE	TITLE
147 a	Ponderosa pine, Great sand dunes National Monument, Colorado USA
148 a	Great sand dunes national monument, ponderosa pine, Colorado USA
149 a	Fossil redwood trunk, Florrisant fossil beds national monument, Colorado USA
150 a	El Capitan, Yosemite National Park, California, USA
151 a	Cloud rest, Tenaya Creek, Yosemite National Park, California, USA
152 a	Delicate Arch, Arches National Park, Moab, Utah, USA
153 a	Hawaii – Kona Coast
154 a	Sentinel Western Gull guards approaches to nesting colony, San Miguel California, July 1984
155 a	Visitors, Adams Cove, San Miguel Island, California, July 1984
156 a	Karl W. Kenyon, San Miguel Island, California, July 1984
157 a	Ground squirrel lives among seaside boulders, Carmel, California
158 a	Island Fox, Miguel Island, Channel Island, California
159 a	Dwarf, Island fox, San Miguel Island, Channel Island, California, 7/1984
160 a	Pod pup California Sea Lions, San Miguel Island, California, July 1984
161 a	Northern Elephant Seal, Mirounga angustirostris, San Miguel, California, July 1984
162 a	Elephant Seals, San Miguel Island, California, July 1984
163 a	Young northern Elephant Seal, San Miguel Island, Channel Island, California, July 1984
164 a	Young male northern Elephant Seal, San Miguel Island, California
165 a	Sea lion, San Miguel Island, California, July 1984
166 a	Pine and dune, Great sand dunes national monument, Colorado
167 a	Ancient quartzite, child's playground, Sugarloaf Mountain, MD

SLIDE	TITLE
168 a	Young north Elephant Seal shows teeth, San Miguel Island, California, July 1984
169 a	Baby northern fur seal scratches, baby California Sea Lion looks on, San Miguel Island, Channel Islands, California
170 a	Baby northern fur seals shows tiny ears, San Miguel Island, Channel Islands, California
171 a	Baby northern fur seal, born southernmost rookery, San Miguel Island, California
172 a	Baby California Sea Lion hides under neighbor's flipper, San Miguel Island, California
173 a	Glassing California Sea Lion herd for specimens to radio tag for measuring time at sea
174 a	Radio tags used to track sea mammals, San Miguel Island, California
175 a	Scientist (Bud Antonelis) carries net for California Sea Lions, San Miguel Island, California
176 a	Female sea lions netted for tagging, young huddle and watch, San Miguel Island, California
177 a	Tagged with non-toxic paint, sea lion heads for sea, San Miguel Island
178 a	Antenna searches beach for radio tagged sea lions, California scientists: Bud Antonelis, Wayne Perrymon, San Miguel Island
179 a	California Sea Lion group: bull, cows, pups, San Miguel Island, California
180 a	California Sea Lions and northern Elephant Seals, San Miguel Island, California
181 a	California Sea Lions, <i>Zalophus californiensis</i> , San Miguel Island, California
182 a	California Sea Lions, bull (dark) cows and pups, San Miguel Island, Channel
183 a	Pup California Sea Lions and northern fur seal play together on San Miguel Island, California
184 a	California Sea Lion carries dead pup for hours, San Miguel Island, California
185 a	California Sea Lions turn dark brown when wet, San Miguel Island, California

SLIDE	TITLE
186 a	California Sea Lions, cows and pups, San Miguel Island, California
187 a	Northern fur seal's hair-fur ends at wrist, California Sea Lions rear
188 a	Female northern fur seals wave flippers to thermo-regulate on warm San Miguel Island, California
189 a	Young northern Elephant Seal, San Miguel Island, California
190 a	Female California Sea Lions turn dark in surf, San Miguel Island, California
191 a	Appalachian mountains Gerrett Company MD (dusk)
192 a	Cunningham Falls, Cumminghan Falls State Park, MD
193 a	Delicate Arch becomes an unworldly silhouette, Arches NP Utah
194 a	Fantastic Journey, Delicate Arch, Arches National Park, Utah
195 a	Detail: Delicate Arch, Arches National Park, Moab, Utah
196 a	Frozen seep Cadillac Mt Acadia NP Maine
197 a	Pine and dune, Great Sand Dune National Monument, Colorado
198 a	Rolling dunes, Great Sand Dunes National Monument, Colorado
199 a	Bridal Veil Falls, Yosemite Valley, Yosemite National Park, California
200 a	Eucalyptus spp. Above Avalon Harbor, Catalina Island, California
201 a	Red tide, dinoflagellate, <i>Gymnodinium breve</i>
202 a	Red tide colony, <i>Gonaulax catenella</i> , living, Note flagella
203 a	Red tide dinoflagellate, <i>Gymnodinium breve</i> (fish kills)
204 a	Windrow of red tide fish kill along water mass interface, off Sanibel Island
205 a	Red tide masses gather dead fish along current interface upper right, Sanibel Islands, Florida
206 a	Pen shells and fish killed by red tide, Sanibel Island, Florida

SLIDE	TITLE
207 a	Great Falls on the Potomac along Maryland shore
208 a	Eroded slopes of San Miguel Island, Channel Islands National Park, California
209 a	Half Dome, Yosemite National Park, California
210 a	El Capitan looms over Yosemite Valley, Yosemite National Park, California
211 a	America's most elegant view, Yosemite Valley from Tunnel View California
212 a	Needles, Black Hills, South Dakota
1	[Rocks and trees]
2	[Rocks]
3	El Capitan Yosemite Valley, California
4 – 5	Watery end: Cavern Cascade, Watkins Glen, NY
6	Gymnodinium breve
7	Clouds rest from Olmsted Pt. Tioga Road, California USA
8	Tunnel view, Yosemite National Park, California USA
9	Yosemite National Park from Tunnel View, California USA
10	Yosemite National Park, California USA
11	Yosemite Valley from Tunnel View, California USA
12	El Capitan, Yosemite National Park, California USA
13	El Capitan, Yosemite National Park, Rises 2307 feet above valley floor, California USA
14 – 15	Yosemite National Park, California USA
16 – 17	Half Dome from Glacier Point, Yosemite National Park, California USA
18	Half Dome, Yosemite National Park, California USA
19	Half Dome in smoke haze from natural fire allowed to burn, California USA

SLIDE	TITLE
20	[Smoke haze] over Yosemite Valley caused by natural fire allowed to burn
21 – 24	Half Dome, Yosemite National Park, California USA
25	Granite domes, Yosemite National Park, California USA
26	Half Dome, Yosemite National Park, California USA
27	Gold Camp Road, Cripple Creek, Colorado
28	Old gold dumps, Cripple Creek, Colorado
29	Valley of the Arkansas River above Salida Colorado
30	Lily of the Nile, Agapanthus orientallis, Ventura Harbor Marina, California
31	Monarch Pass, RT. 50, 11,312 feet, Colorado
32	Raft of fish by red tide, U.S. Florida
33	Gymnodinium breve causes this red tide in Florida, dead fish dot the surface
34	[Plankton]
35	Gonyaulux, source of shellfish poisoning
36 – 37	Gonyaulux catanella, [magnified] about 33x
38 – 39	Gonyaulux catanella, [magnified] about 66x
40	Gonyaulux catenella, [magnified] about 33x
41	Gymnodinium breve, [magnified] 750x
42	Gymnodinium breve
43	Gymnodinium breve, phase contrast x 750, shows gelatinous sheath, nucleus, flagella
44	Dinoflagellates, Gonyaulux
45	[Person on beach during] red tide
46	Red tide kill of Sanibel Island

SLIDE	TITLE
47	Fish kill washes ashore at Sanibel Island
48	Raft of fish killed by red tide
49	Tide and currents carry red tide kill toward Sanibel Island
50	Red tide fish kill Sanibel Island, Florida, 10/59
51	Red tide fish kill, Sanibel Island, Florida
52	Red tide plumes and dead fish off Sanibel Island, Florida
53	Red tide aerial view off Sanibel Island, Florida
54	Fish killed by Florida red tide, Sanibel Island
55	Red tide, white pelicans fly over red tide, Sanibel Island, Florida
56	Red tide, windrow of dead fish forms along interface of water masses, Sanibel Island, Florida
57	Red tide fish kill washing ashore on Sanibel Island, Florida, 1968
58 – 59	Red tide fish kill Sanibel Island, Florida
60	Red tide fish kill on Sanibel Island, Florida, Note pen shell also killed by tide
61	Green, blue-green diatom algae, 1968
62	Susquehanna River
63	Anoles, Buck Island
64 – 66	La Jolla tide-pools, Williams family, daughter Susy, niece Rosalie Daly, daughter Betty
67	La Jolla tide-pools, Woody Williams Jr., Susy Williams, Rosalie Daly, Jolin Daly (cousins), Betty Williams
68	Tide-pools La Jolla, California, Williams family over
69	Tube feet, starfish, <i>Astrometis sertulifera</i>

SLIDE	TITLE
70	Tide-pool Explorers, Williams family, Rosalie (niece) and Randy Daly (nephew), Betty Williams (daughter), La Jolla, California
71	La Jolla tide-pools
72	Tide-pool, La Jolla, California
73	Black-nosed Butterflyfish, Porkfish <i>Anisotremus</i> sp., Pacific Coast, Mexico
74	Surgeonfish, Butterflyfish, Mexico west coast
75	Butterfly fish (two species), Surgeonfish, Leatherneck Bass, West coast, Mexico
76	Pacific Banded Butterflyfish, Pacific Coast, Mexico
77 – 78	Surgeonfish, <i>Prionurus punctatus</i> , Pacific coast, Mexico
79	Black-nosed Butterflyfish, disruptive coloration, pacific Coast, Mexico
80 – 82	Karl W. Kenyon, Victoria B.C., August 1982
83 – 84	Sand dollar, Puget Sound
85	Blue Ridge Parkway, Ashville, N.C. District
86	Jack smelt eggs, Bug ecology, Tomales Bay, California
87	Midshipman eggs, <i>Porichthys</i> sp., Tomales Bay, California
88	Abbots Lagoon, Pt. Reyes peninsula, California
89 – 90	<i>Archidoris montereyensis</i> sea lemon
91	<i>Archidoris montereyensis</i> , spawning Tomales Bay, West shore, May 1978
92	Spawning sea lemon, <i>Archidoris montereyensis</i> , a nudibranch in a group called “dorids”, Tomales Bay, Marine County, California
93	<i>Archidoris montereyensis</i> (sea lemon) spawning at low tide, Tomales Bay, May 1978
94	Sea lemon (nudibranch, <i>Archidoris</i> sp.) spawning between tides

SLIDE	TITLE
95 – 96	Archidoris montereyensis, sea lemon spawns at low tide, Tomales Bay, California, May 1978
97	Egg mass, Archidoris montereyensis, low tide, Tomales Bay, May 1978
98	Spawning sea lemon, Archidoris montereyensis, Tomales Bay, May 1978
99	Sea lemon spawning, Archidoris montereyensis, Tomales Bay California
100	Egg mass, Archidoris montereyensis among Ostria Lurida, low tide, Tomales Bay, May 1978
101	Nudibranch sea lemons and eggs, Archidoris montereyensis, Tomales Bay, California
102	Seaweeds: Hana, Maui, Hawaii
103	Seaweeds (Red): Hana, Maui, Hawaii
104	Porphyra, Crescent City, California
105	Spring snow, Sequoia National Park
106 – 108	Big Horn Mountains
109 - 110	Lower Falls of the Yellowstone
111	Shoshone National Forest
112	Sea anemone
113 – 116	Utah, Moab, Arches National Park, Delicate Arch, La Sul Mountains, Arch: 100,000 years old, Entrada Sandstone
117	Day's notes, seal lab, 7/84
118	[Plant], 1984
119	[Ocean], 1984
120	Cormorant nesting ground
121	Dune vegetation, 1984

SLIDE	TITLE
122	[Dune vegetation], 1984
123	Morning glory
124	Comeback of vegetation, 1984
125	Ed Jameyson strides through fog to blind, will spend hours counting fur seal pups
126	Weather station
127	[Men hiking from station], 1984
128	Lupine, 7/1984
129	Pinniped, Point Bennett, 7/1984
130	Ed Jameyson, trail from weather station, 7/1984
131	Morning glory
132	Sand Verbena, Abronia umbellata
133	Dune vegetation, 1984
134	Sea lions, Elephant Seal, Adams Cove, 1984
135	California Sea Lions, 1984
136	Child cave unit, California Sea Lions, Adams Cove
137	[California Sea Lions], 1984
138	Breeding colony California Sea Lions, male: large, dark, female: smaller, light, 1984
139	[Dune vegetation], 1984
140	Northernmost breeding colony, California Sea Lions, males dark
141	“Gossip” California Sea Lions
142	[Man coming out of a box]
143	Veteran: California Sea Lion bull, Adams Cove, San Miguel Island

SLIDE	TITLE
144	Delicate arch, Arches National Park, Utah
145	Fossil leaf in shale in situ, Florissant National monument
146	Great Sand Dunes, Colorado
147 – 148	Great Sand Dune National Monument, Colorado
149	Fossil leaf along visitor trail, Florissant FBNM
150	Great Sand Dune National Monument, Colorado
151	High seas and tide washing across fur seal rookeries, Pt. Bennett
152	California Sea Lion resting above sea
153	Young, male California Sea Lion rest area above sea
154 – 155	Young, male California Sea Lion
156	Intertidal zones north shore, San Miguel Island
157	Great Sand Dunes National Monument, Alamosa Colorado
158	Upper intertidal, limpets: Peluptia (brown seaweed)
159	Hump on head distinguishes and California Sea Lion
160	Snoozing sea lion
161	Sea lions clamber inland, for a good snooze
162	Breeding colony, California Sea Lions
163	California Sea Lions clamber inland for a good snooze
164	California Sea Lions northernmost breeding colony
165	Marine mammal – Pt. Bennett, study breeding seal colonies
166	Summer ornithologist, Mark Segge, Lic-Davis, 7/8/84
167	North Elephant Seal, California Sea Lion

SLIDE	TITLE
168	California Sea Lion, Northern Elephant Seal
169	Sea lions clamber inland for a good rest
170	[Sand dunes]
171	Midday sleep, young Elephant Seals and sea lions (females and pups)
172	California Sea Lions, females and pups – breeding colony
173	Young, female, California Sea Lion scents an intruder
174 – 176	Sea lions travel inland for a good snooze
177	Young Elephant Seal asleep
178	In high wind, Jack Williams explores Great Sand Dunes, Colorado, his boyhood home
179	Female California Sea Lions in surf
180	Great Sand Dunes National Monument
181	Male, female pups, northern Elephant Seal, male infected by curious skin problem called “mange”
182	Pilot: Channel Islands Aviation
183	About 10,000 California Sea Lions on island during summer season, cows with pups here
184	Male and females pups, California Sea Lion breeding territory
185	Great Sand Dunes National Park
186	Pups and cows California Sea Lions
187	California bull sea lion and family
188	Female breeding California Sea Lions
189	Great Sand Dunes National Park, Colorado
190	Counting North Fur Seal pups from blind

SLIDE	TITLE
191	Great Sand Dunes
192	California Sea Lion, driftwood, north shore
193	Female California Sea Lion guards beach
194	Kelp offshore, south shore
195	Western gulls clean beach of seal placentas in breeding colony
196	Kelp offshore, south shore
197	Bottle with message, north shore
198	Eroded surface of island
199	Surf on south coast
200	Eroded surface of Island
201	Setting up radio locator equipment on foggy morning
202	North Fur Seal harems – mixed with California Sea Lions
203	Shedding Northern Elephant Seals, summer shed, <i>Mirounga angustirostris</i>
204	Young Elephant Seal pups to sea
205	Elephant Seals and sea lions, Point Bennett
206	Sea Elephants feed out of depths
207	Sleeping Elephant Seals
208	North Elephant Seal, short and stubby flipper
209	Young north Elephant Seals prepare for future combat
210	Fence line, Colorado
211	Young Northern Elephant Seal
212	Young Northern Elephant Seal, Female does not have inflatable proboscis

SLIDE	TITLE
213	Harbor Seal, Phoca vitulina Richardii
214	Female California Sea Lion carries dead pup for several hours before abandoning it
215	Female California Sea Lion and dead pup
216	Pelicans in fog, North coast
217	Foggy north coast
218	Sunlight through fog
219	Sun filters through pervasive fog
220	Surf and rocks
221	Kelp patterns
222	Scientist injects radio active water in seals to study their food intake metabolism (Energetics)
223	Great Falls, Potomac in flood
224	Catalina Island (Santa Catalina Island)
225	Catalina Island, old fence line, Santa Catalina Island
226	Catalina Island (Santa Catalina Island)
227	Catalina Harbor, Catalina Island, West coast
228 – 229	Catalina Island
230	Catalina Harbor, Catalina Island
231 – 233	Catalina Harbor Isthmus
234	Avalon Beach, Catalina Island
235	Avalon, Catalina Island
236	California Sea Lions, San Miguel Island

SLIDE	TITLE
237	Living sand dollar, Dendraster excentricus, Puget Sound
238	Needles, Black Hills, South Dakota
239	Pelican Bay and Resort buildings, Santa Cruz Island, July 1939
240	Ketch Voyager, Pelican Bay, Santa Cruz Island, July 1939
241	Scene east of Red peak in background, Indian shell site, main ridge, Santa Cruz Island, 7/39
242	Main (station) ranch from Red Peak, Santa Cruz Island, July 1939
243	Palmer Williams on Red Peak, Santa Cruz Island, July 1939
244	Canada del Medio, Santa Cruz Island, July 1939
245	Waterfall head of Canada del Medio, Santa Cruz Island, California, July 1939
246	Island ironwood near ridge west of Red Peak, Santa Cruz Island, July 1939
247	Ironwood, North Ridge, Santa Cruz Island, July 1939
248	Arctostaphylos diversifolia above Pelican Bay, Santa Cruz Island, July 1939
249	Bishop pine: (Left) P. Remorata, (Middle) B. Muricata, (Right) no cones for identification, Santa Cruz Island, 7/39
250	Cones, Island Pine, P. Remorata above Pelican Bay, Santa Cruz Island, July 1939
251	Bishop pine between Pelican and Prisoner bays, Santa Cruz Island
252	Petroglyphs, mouth of Titus canyon, Death Valley near spring, April 4, 1940
253	California Sea Lions, North Coronado Island, June 1940
254	Anacapa and Santa Cruz Islands, Oct 10, 1940
255	North face, Santa Barbara Island, September 1940
256	Sam Haggerty, Lobster fisherman at Willows Santa Cruz Island, Catch of sheephead, October 30, 1940

SLIDE	TITLE
257	Reef zonation: east of Willows, Santa Cruz Island, California, October 30, 1940, Bud Achcraft Collector Hancock Foundation
258	California mussel bed, east of Willows, Santa Cruz Island, Velero III cruise, 10/30/40
259	Dr. Fraser and Dr. Clements dredge haul Velero III off Cedros Island, Feb 2, 1941
260	Sea elephant and pup, east San Benito Island, Feb 22, 1941
261	Wilson's cove, San Clemente Island, Feb 26, 1941
262	Velero III from Cedros Island, Northeast end, Agave in foreground, Feb 27/41
263	Northeast end Cedros Island, Velero III cruise, Allan Hancock Foundation, 2/28/41
264	Coral in tangle mop, 40 fms off Cedros Island, Velero III, Feb 27/41
265	Mt Cedros from Volcanic Neck, South Bay, Cedros Island, Velero III cruise, Feb 27/41
266	Osprey nest, South Bay, Cedros Island, Feb 27/41, Velero III Cruise
267	Desert-Mallow, Sphaeralcea sp. and Bishop Pine, Ridge northeast end Cedros Island, Velero III, Feb 28/41
268	Bishop Pines edge 2000-foot crest of northeast end, Cedros Island, fog waters pines, Velero III, Feb 28, 1941
269	Bishop Pines cling to 2000-foot northeast end Cedros Island, View west shore, Feb 28/41
270	Fog nurtures Bishop Pines on 2000-foot crest of northeast end, Cendros Island, view from old mine, Velero III, 2/28/41
271	Abandoned mine, northeast end, Cedros Island, Velero III cruise, AHF. Feb 28, 1941
272	Jack Von Blocker (Channel Island Survey), L.A. Museum of NH on Velero III, April 11, 1941
273	North shore, Santa Cruz Island, up Alamo Canyon to Picacho Diablo, April 12, 1941

SLIDE	TITLE
274	Low tide, view up coast beyond Scripps pier, March 1945
275	La Jolla sunset, March 1945
276	Cruise of sloop seven seas, K Kenyon, Baja California, West Coast
277	Cruise of seven seas, Cedros Island, Baja California, 1946
278 – 279	Cruise of seven seas, Cedros Island, Baja California, West coast, 1946
280	Kenyon [and] police chief, Cedros Island, Cruise of sloop seven seas, Baja California, West coast
281 – 291	Cruise of seven seas, Cedros Island, Baja California, West coast 1946
292 - 296	Kern Kenyon, Baja California 1946
297	Fisherman's shacks, John Anderson, San Geronimo Island, Baja California, Seven seas cruise, 3/13/46
298 – 302	Rosario Baja, California, April 12, 1946
303	Harbor Seal, San Geronimo Island, Baja California, April 12, 1946
304	Cormorant, San Geronimo Island, Baja California, April 13, 1946
305	Tide-pool shelf, San Geronimo Island, Baja California, April 13, 1945
306	San Geronimo Island, Baja California, April 13, 1964
307	Harbor Seal, San Geronimo Island, Baja California, April 13, 1946
308	Cormorants, San Geronimo Island, April 13, 1946
309	Cormorant rookery, San Geronimo Island, Baja California, April 13, 1946
310	Acmaea sp. (Limpet) San Geronimo Island, Baja California, April 13, 1946
311	(Limpet), Lottia gigantea, San Geronimo Island, Baja California, April 13, 1946
312	Lottia gigantea, San Geronimo Island, April 13, 1946
313	Limpets, San Geronimo Island, April 13, 1946

SLIDE	TITLE
314	Harbor Seal and tide-pools, San Geronimo Island, Baja California, April 13, 1946
315	Cormorant rookery, San Geronimo Island, Baja California, April 13, 1946
316	Turtle hunter seeks shellfish in shallows of Scammon Lagoon, April 23, 1946
317	Pier to salt mine, Scammon Lagoon, April 29, 1946
318	Punt pootwaddle, turtle fishermen, Scammon Lagoon, April 29, 1946
319	Salt mine, head of Scammon Lagoon, April 29, 1946
320	Turtle fishermen, cockpit of seven seas, Scammon Lagoon, April 29, 1946
321	Karl Kenyon, at fisherman's abandoned "home", San Geronimo Island, Baja Island, Seven Seas cruise, 3/13/46
322	Mexican turtle hunters, Scammon Lagoon, Seven Seas cruise, 3/23/46
323	Mexican turtle hunt, Scammon Lagoon, Sloop Seven Seas Cruise, 3/23/46
324	Collecting station, Punta Banda, Baja California, April 1, 1946
325	Water color of scene by KW Kenyon in our bedroom, wreck of the Quest, north point San Martin Island, Baja California, Seven seas cruise, April 2, 1946
326	Karl W. Kenyon, baby Harbor Seal, San Geronimo Island, April 13, 1946
327	Young Harbor Seal in tide pool, San Geronimo Island, Baja California, Seven Seas Cruise, April 13, 1946
328	Tide-pools in shelf, east side San Geronimo Island, Baja California, Seven Seas Cruise, 1946
329	Karl Kenyon views rich tide-pools in shelf, east side San Geronimo Island, Seven Seas Cruise, April 13, 1946
330	Rich tide-pools lace shelf, east side San Geronimo Island, Baja California, Seven Seas Cruise, April 13, 1946
331	Surf feeds deep tide-pools, east side San Geronimo Island, Baja California, Seven Seas cruise, April 13, 1946

SLIDE	TITLE
332 – 333	Deep tide-pools penetrate east shelf, San Geronimo Island, Baja California, Seven Seas Cruise, April 13, 1946
334	Karl W. Kenyon on fringing littoral shelf, San Geronimo Island, Baja California, Seven Seas Cruise, 4/13/46
335	Karl Kenyon removes a Cassin Auklet from its burrow on San Geronimo Island, Seven Seas cruise, 4/13/46
336	Karl Kenyon “visits” a Cassin Auklet in its burrow on San Geronimo Island, Seven Seas Cruise, April 13, 46
337	Camp of seaweed divers (for Agar agar), San Martin Island, April 15, 1946
338 – 340	Camp of seaweed divers (Gelidium or Agar agar), San Martin Island, April 15, 1946
341	Hassler Cove, San Martin Island, April 15, 1946
342	Spearing turtle, Scammon’s Lagoon, April 23, 1946
343	Seven Seas anchored off Isla Concha, Scammon Lagoon, April 23, 1946
344	Scammon, April 23, 1946
345	Carlos Preciado Spears Green turtles, Scammon Lagoon, April 23, 1946
346	Turtle hunters, Scammon Lagoon, Baja California, April 23, 1946
347	Green turtle hunter, Carlos Preciado, Scammons Lagoon, April 23, 1946
348	Carlos Preciado, directs crew toward turtle, Scammons, April 23, 1946
349	Spearing green sea turtle, Scammon Lagoon, April 23, 1946
350	Spearing skate, Scammon Lagoon, April 23, 1946
351	Karl Kenyon, west weather off Baja California, Sloop Seven seas 1946
352	Turtle hunter seeks shellfish in shallows of Scammon Lagoon, April 23, 1946
353	Salt mine, head of Scammon Lagoon, April 29, 1946
354	Seven Seas off dunes, Scammon lagoon, May 1, 1946

SLIDE	TITLE
355	Seven Seas off dunes, Pupita North, Scammons
356	Cedros Village, Cedros Island, May 8, 1946
357	Cedros Village, Cedros Island, May 8, 1946
358	Ass carries supplies to Lighthouse, Natividad Island, Baja California, Seven Seas Cruise, May 9, 1946
359	Flat Rock, Natividad Island, Baja California, Seven Seas Cruise, May 9, 1946
360	Cedros Island, Cedros village on shore, Seven Seas Cruise, May 9, 1946
361	Juniper, Cedros Island, Baja California, Seven Seas Cruise, May 9, 1946
362	Elephant trees, Cedros Island, northeast end of Island above Palm Spring, Seven Seas Cruise, 5/9/46
363	Coll. Area inside Flat Rock, Natividad Island, Baja California, Seven Seas Cruise, May 9, 1946
364	Mazatlan couple, Natividad Island, Baja California, Seven Seas Cruise, May 9/46
365	Karl W. Kenyon at tiller of his "Seven Seas" off Cedros Island, May 18, 1946
366	His sloop Seven Seas, San Martin Island, May 14, 1946
367	Fisherman, Hassler Cove, San Martin Island, May 24, 1946
368	Fishing boats, Hassler Cove, San Martin Island, May 24, 1946
369	Fisherman, Hassler Cove, San Martin Island, May 24, 1946
370	Fisherman, San Martin Island, May 24, 1946
371	San Martin Island, Baja California, May 24, 1946
372 – 373	[Fishermen]
374	Sam Hinton collects fish in poisoned tide-pool, southwest reef Guadalupe Island, R/V E.W. Scripps expedition, Boyd Walker
375	[Fishermen]

SLIDE	TITLE
376	[Island coast]
377	[Fisherman on boat off of island coast]
378	[Fishermen on boat]
379	[Island coast]
380	[Man standing on rocks], Guadalupe Island
381	La Jolla
382	[Man dragging kelp on beach in La Jolla]
383	[Man with kelp on beach in La Jolla]
384	Bill Ingram, Karl Kenyon, Mills College, Balboa Zoo, San Diego, Jan 1947
385	Kelp raked aft, July 1, 1947
386	Draper C.L. Argues, July 1, 1947
387	C.L. Argues, San Pedro, July 1, 1947
388	Wake of kelp cutter, C.L. Argues, July 1, 1947
389	Vertical cutter, C.L. Argues, July 1, 1947
390	Vertical cutter, C.R. Argues, July 1, 1947
391	Kelp coming onboard, C.L. Argues, July 1, 1947
392	John Garbin, C.L. Argues, July 1, 1947
393	Operating kelp rake, C.L. Argues, July 1, 1947
394 – 396	Raking kelp aft, C.L. Argues, July 1, 1947
397	Kelp passing over draper, C.L. Argues, July 1, 1947
398	Draper dumping kelp in barge, C.L. Argues, July 1, 1947
399	Draper loading barge, C.L. Argues, 7/1947

SLIDE	TITLE
400	View from wheelhouse, C.L. Argues, July 1, 1947
401	Kelp off San Pedro, July 1, 1947
402 – 404	C.L. Argues, Philip Park Inc., San Pedro, California, July 1, 1947
405	C.L. Argues, San Pedro, California, July 1, 1947
406	C.L. Argues, Philip Park Inc., San Pedro, California, July 1, 1947
407	Unloading kelp, Philip Park Inc., San Pedro, California, July 1, 1947
408 – 410	Unloading kelp, San Pedro, July 1, 1947
411	Unloading kelp, San Pedro, California, Philip Park, Inc., July 1, 1947
412	Unloading kelp, San Pedro, California, July 1, 1947
413 - 416	Unloading kelp, Philip Park Inc, San Pedro, July 1, 1947
417	Hoist operator unloads kelp, Philip Park Inc, San Pedro
418	Unloading kelp, Philip Park Inc.
419	Kelp ground for cattle feed
420	C.L. Argues, Kelp load, July 1, 1947
421	Line-loading kelp, Philip Park Inc., San Pedro, July 1, 1947
422	Kelp load and draper, C.L. Argues, San Pedro, California, July 1, 1947
423 – 424	[Pier in La Jolla]
425	Bull, California Sea Lion, north shore, San Miguel Island, 7/48
426	Deep tide-pool on Tomales Point, Edith Williams daughter, Bee Williams daughter, Susy
427	Surgeon fish, <i>Prionurus punctatas</i> , Scripps Aquarium, circa 1950
428	Students – College of the Pacific Marine Sta., Dillon Beach, Tomales Bay, 1950's

- 429 Joel Hedgpeth and students, Tomales Bay, 1950's
SLIDE **TITLE**
- 430 Joel Hedgpeth and students, Tomales Bay on Bio-Pacifica, 1950's
- 431 Students, College of the Pacific Marine Station, Dillon Beach, 1950's
- 432 College of the Pacific, student, Tomales Bay
- 433 William Beebe, a jungle trail in Trinidad
- 434 Locust Plague, Karachi, 1952
- 435 Trap – Desert locust, Karachi, 1952
- 436 Trapped Desert locust, Karachi
- 437 Locust – Cowcatcher, Karachi, 1952
- 438 Locust on railroad track, Pakistan
- 439 – 440 Mixing poison bait – locust, Karachi 1952
- 441 Island Schooner off Trinidad, 1958
- 442 Fish Catch Landing, Manta, Ecuador, 1958
- 443 [Ocean]
- 444 Karl W. Kenyon, Seattle – Victoria Ferry, August 1963
- 445 Tide-pool Explorers, Betty Williams, La Jolla, California, 1967
- 446 Tide-pool Explorers, (left) cousins, Rosalie, Randy, John Jr. Daly, (right) Betty, Susy Williams
- 447 Tide-pool Explorers, La Jolla, California
- 448 Female California Sea Lion with fighting scars
- 449 New York, Watkins Glen, Cavern Cascade
- 450 Watkins Glen State Park, New York
- 451 Watkins Glen, Cavern Cascade, New York

452	Fritz Gutheim at Western Plaza
SLIDE	TITLE
453	Washington Channel, Fritz Gutheim
454	Washington D.C., Willard Hotel above Western Plaza
455	Capitol, Fritz Gutheim, West terrace
456	Fritz Gutheim at Western Plaza
457 – 458	Watkins Glen, Cavern Cascade, New York
459	Watkins Glen, Cavern Cascade near Seneca Lake, New York
460	Watkins Glen State Park, New York
461	Whiteoak Canyon, Upper falls, Shenandoah National Park, Virginia
462	Save the National Aquarium demo. commerce 3/20/81
463	Save the National Aquarium demonstration commerce, Eugenie Clark, Paul Pritchard, NPCA Interview, 3/20/81
464	Save the National Aquarium Demo Commerce, Beverly Luna, 3/20/81
465	National Aquarium protest against closing, Eugenie Clark, Commerce Department
466 – 467	Save the National Aquarium Demo Commerce, 3/20/81
468	Paul Pritchard, NPCA Commerce Department, National Aquarium picketing, 3/20/81
469	Save the Aquarium Demo Commerce, 3/20/81
470 – 471	Save the Aquarium Demo Commerce, 3/20/81
472 – 476	Save the National Aquarium Demo Commerce, 3/20/81
477	Eugenie Clark interviewed at Save the National Aquarium Demo Commerce Dept.
478	Save the National Aquarium Demo. Commerce, Picket Stacy Brown, 8/20/81
479 – 480	Save the National Aquarium Demo Commerce, 3/20/81

SLIDE	TITLE
481	Save the National Aquarium Demo. Commerce, Picket. Stacey Brown, 8/20/81
482	Eugenie Clark at Save the National Aquarium Demo. Commerce, 3/20/81
483	National Aquarium protest against closing, Stacy Brown, 3/20/81
484	Protest pickets against National Aquarium closing
485	Picketing Commerce over National Aquarium closing, "Feed Dave", David Powell, 3/20/81
486 – 487	Picketing Commerce over National Aquarium closing, 3/20/81
488	[Picketing Commerce over National Aquarium closing]
489	Picketing Commerce over National Aquarium closing, Karen Hervington, 3/20/81
490	Save the National Aquarium Demo Commerce, 3/20/81
491 – 492	Save the National Aquarium Demo Commerce, Picket Stacey Brown, 3/20/81
493 – 495	Picketing Commerce over National Aquarium closing, 3/20/81
496	National Aquarium picketing, Paul Pritchard, NPCA Commerce Department, Now Nat Parks and Rec Assoc., 3/20/81
497	Save the National Aquarium Demo, Stacey Brown, 3/20/81
498	Eugenie Clark, Paul Pritchard, Nat Parks and Rec Assoc.
499	Save the National Aquarium Demo Commerce, Stacey Brown, 3/20/81
500	Save the National Aquarium Demo Commerce, 3/20/81
501	[Trees and rocks]
502	Pink Flamingo
503	Needles Custer State Park
504	Red tide
505 – 506	Red tide, dinoflagellate, Gymnodinium breve shows gelatinous sheath, flagella, nucleus, phase contrast x 750

SLIDE	TITLE
507	Radio in place and blazed for identification purposes, female California Sea Lion heads for sea, cage used to hold for blood seal samples
508	Needles, Black Hills, S.D.
509	Tagged seal off to sea
510	Pup and captive female sea lion, radio tracking, Adams Cove, San Miguel Island
511	Radio is carefully set in sea lion, back so as not to injure her
512	NMFS (NOAA) Researcher capturing seals for tagging, “not butterflies, seals they’re after”
513	NMFS (NOAA) bagging sea lions for radio tags
514 – 515	Bad Antonelis collects scat, Adams Cove, San Miguel Island, 7/84
516	Recording frequencies of radio transmitters to be attached to female California Sea Lions
517	Wayne Perryman, blood sample, Adams Cove, San Miguel Island, 7/84
518	Transmitter attached to sea lion, (back) system does no damage to animal
519	NMFS (NOAA), injecting radio – active water for energy flow and balance
520	Preparing injection electrolyte for metabolism study to sea lion, San Miguel Island
521	Female California Sea Lion held in cage for blood samples, baby California Sea Lions wait return of females, Wayne Perryman taking notes, Pinniped studies, NMFS
522	Sea lion placed in cage for hours for complete circulation of radio-active water
523	[Close-up of man with equipment]
524	National Marine Fisheries Service Research Station, San Miguel Island
525	San Miguel Island Research Station
526	San Miguel Island Research Station, our tent

SLIDE	TITLE
527	Holding straps, lab, San Miguel Island
528	Preparing radio transmitters, seal lab, San Miguel Island, 7/84
529	Transmitter for California Sea Lion studies
530	[Researcher in seal lab]
531	Trail to Adams Cove, NMFS lab, Adams Cove
532	Listening to radio beeps from sea lion on the beach, Bud Antonelis with strip chart recorder
533	Unpacking radio receiver for California Sea Lion studies, transmitter: recorder
534	Studies of California Sea Lion energetics studies require monitoring of on and off beach, “hold many days at sea feeding”
535	Searching Pt. Bennett area for radio-tagged female California Sea Lion, scientists learn feeding habits by monitoring seal movements on and off beach
536	“There she is” Bud Antonelis located radio-tagged California Sea Lion on Pt. Bennett
537	“Is she still there?” checking for signal from tagged seal on beach, California Sea Lion (energetics), Bud Antonelis, Wayne Perryman
538	Bud Antonelis checks out strip chart recorder for a radio frequency, scanning receiver used to monitor radio-tagged California Sea Lions in feeding studies
539	Bud Antonelis searching out radio-tagged sea lions
560	Searching for seal signal, Antonelis, San Miguel Island, 7/84
561	Wayne Perryman listens for signals of radio transmitters on sea lion’s back
562	Ed Jameyson shooting aerials of Castle Rock for seal herd, San Miguel Island
563	Karl Kenyon, San Miguel Island
564	Keeping low – watching seal rookeries on Pt. Bennett, scientist picks out female for radio-tag
565	Picking out a seal to tag, Antonelis Costa, Adams Cove

SLIDE	TITLE
566	Picking out sea lions for radio tags
567	Picking out a tagged California Sea Lion for radio attachment to monitor seals movement, Bud Antonelis
568	Storage workshop, Adams Cove, San Miguel Island
569	Preparing to tag seals, Adams Cove, San Miguel Island, 7/84
570	Planning strategy for tagging sea lions
571	Setting out to tag sea lions with radios, Point Bennett, 7/12/84
572	Tourists visit seal rookeries on Point Bennett
573	Tourists, Adams Cove, San Miguel Island, 7/84
574	Spying, blind for far seal, San Miguel Island, 7/84
575	Edward Jameyson leaves blind used for daily observations of fur seals
576	Blind for counting fur seal, Adams Cove, Point Bennett
577	Ed Jameyson, Karl Kenyon fishing floats, north shore, net floats of fishermen torn loose by storms, 7/84
578	[Researcher at work]
579	Ed Jameyson counts baby fur seals five hours a day
580	[Ed Jameyson counts baby fur seals]
581	Daily pup count North Fur Seal, Ed Jameyson
582	Ed Jameyson, fur seal biologist in blind
583	NMFS blind for fur seal census above Adams Cove
584 – 585	Chumash ceremonial site, San Miguel Island, 7/84
586	Trail to Point Bennett and NMFS Lab, July 1, 1984
587	[Two men watching beach from cliff] San Miguel Island

SLIDE	TITLE
588	Portable radio receiver rides herd over world's greatest pinniped show
589	Male northern fur seal, <i>Callorhinus ursinus</i>
590	North Fur Seal
591	Male northern fur seal does not feed during breeding season, Harem – boss
592	North Fur Seal
593	Male North Fur Seal defends breeding territory grows thin, does not feed during season, females and young around him
594	[North Fur Seal]
595	North Fur Seal bull and cows, Adams Cove
596	Bull and female North Fur Seals, first reported on island in 1968
597	Bull and cow on breeding territory, North Fur Seal
598	Nap time for harem, master pup becomes a pillow, flipper keeps him cool, northern fur seal, San Miguel Island
599	Harem – master pups, cows, bull, northern fur seal harem
600	Northern fur seal small harem, Point Bennett, <i>Callorhinus ursinus</i>
601	Harem bull (Northern fur seals) tries to keep females from going to sea to feed, some escape
602	North Fur Seal
603	North Fur Seals work into sand to keep cool, male rests head on pup
604	North Fur Seal
605	Northern fur seal harem – “Beach master cows and black babies”
606	Northern fur seal cows
607	Breeding territory North Fur Seal, male grows thick mane
608	North Fur Seals

SLIDE	TITLE
609	Fine calcareous sand streaks from scratching, 1-2 week old northern fur seal pup
610	Northern fur seal bull, cows, pups, <i>Callorhinus ursinus</i>
611	Pliant flippers thermo-regulate body temperature on a sunny day, pups nurses on left
612	North Fur Seal
613	“A good scratch”, North Fur Seal pup
614	Young California Sea Lions, Adams Cove, San Miguel Island
615	Pup fur seal visits California Sea Lion pod, note: large hind flippers
616	Fur seal pup with sea lion pups
617	North Fur Seal pups and California Sea Lion pups
618	Pups: California Sea Lion, northern fur seal
619	“Time to go home” pup fur seal
620	Flipper devoid of hair or fur distinguished the fur seal from the sea lion
621	Fur seal “harems” around flood pond, Fur seals and sea lions Elephant Seals rub shoulders in Adams Cove
622	North Fur Seals, Adam Cove, San Miguel Island
623	Sea lions, fur seals, Adams Cove, San Miguel Island, Flood ponds, 7/84
624	Only beach where fur seals breed, sea lions mix with fur seals, Adams Cove
625	Fur seal, harems below blind in Adams Cove, babies gamble in tide-pool
626	Fur seal rookery, breeding territories in Adams Cove
627	Fur seals, San Miguel Island, Adams Cove
628	Flood ponds cool, seals, Adams Cove, Point Bennett, San Miguel Island
629	High tide and high seas threaten fur seal harems

SLIDE	TITLE
630	North Fur Seal rookery, Adams Cove, San Miguel Island
631	fur seals, sea lions, Elephant Seals, Adams Cove, San Miguel Island, 7/84
632	View from blind of pinniped rookeries at Point Bennett, North Fur Seals
633	Installing portable receiver for sea lion studies, Bud Antonelis, Wayne Perryman
634	Radio receiving equipment going on back packs
635	Preparing radio tracking gear for back-packing, San Miguel Island, July 1984
636	Radio equipment prepared for back-packing, NMFS lab, San Miguel Island
637	Radio receivers and recorders kept in bins as protection from blowing sand and rain, equipment monitors, radio-tagged sea lions
638	Checking receiver, Bud Antonelis, San Miguel Island, July 1984
639	Radio receiver and recorder kept in bins as protection from blowing sand and rain, equipment monitors radio-tagged sea lions
640	Checking automatic recorder of signals from radio – sea lions on the beach
641	Evening, Adams Cove, San Miguel Island
642	California female sea lions on seaweed draped reef
643	Breeding colony, California Sea Lions
644	Evening Adams Cove, San Miguel Island
645	Young California Sea Lions sleep on northern Elephant Seal
646	Young sea lion finds soft warm bed on sleeping Elephant Seal
647	California Sea Lions gilded by sunset
648	California Sea Lions, San Miguel Island
649	Six species of Pinnipeds are reported on Adams Cove, San Miguel, radio – tags keep track individuals, NOAA studies their habits
650	North Fur Seals

SLIDE	TITLE
651	Splash pond, Adams Cove, San Miguel Island, California
652	Seals cool themselves around tidal flood ponds
653	Sea lions cool around flood ponds at end of hot day
654	California Sea Lions, San Miguel Island, California, 7/1984
655	California Sea Lion rookery, Point Bennett
656	California Sea Lion colony, San Miguel Island, California
657	California Sea Lions
658	California Sea Lions, Adams Cove, San Miguel Island
659	Young North Fur Seal, San Miguel Island, 7/84
660	Pup California Sea Lion take cover, <i>Zalophus californianus</i>
661	Gang rape – in flood pond, Adams Cove, San Miguel Island
662	Fur seal colonies swept by high seas, Adams Cove, San Miguel Island, 7/84
663	Pup California Sea Lion, Adams Cove, San Miguel, 7/84
664	Pup California Sea Lions from pods while females are feeding
665	Sea lions are weighed, baby looks
666	Pup sea lions form pods while females are at sea
667	Born within the month California Sea Lions huddle in pods when females are off beach, <i>Zalophus californianus</i>
668	Pup California Sea Lion
669	Pup California Sea Lions
670	Pup California Sea Lion
671	Perryman, Antonelis, Kenyon, Jameyson, Coste, Transfer, San Miguel, 7/84
672	Writing up days work, Wayne Perryman

SLIDE	TITLE
673	Needle gear for injecting sea lions (metabolism studies), San Miguel Island
674	Airport, Karl Kenyon and Ed Jameyson
675	[Sea lions, researchers on beach]
676 – 677	Karl W. Kenyon, San Miguel Island, July 1984
678	Gentle hand while a blood sample is taken, NMFS (NOAA)
679	Sea lion round up, holding female sea lion, pup hangs by, note: white camouflage, San Miguel, July 12, 1984
680	Karl Kenyon photographs sea lions
681	Seal tagging injecting electrolytes for physiological study, San Miguel, 7/84
682	Clipping flipper identification, San Miguel Island
683	Restraining board, holding stock, seal tagging, San Miguel Island
684	Daily pup count, North Fur Seal, Ed Jameyson, NOAA
685	Pup sitter, Wayne Perryman, San Miguel Island, California, July 1984
686	Scientist “herds” baby sea lions while parents are tagged with radios, actually young congregation “pods”
687	Injecting radio-active water for study of energy flow and balance, NMFS (NOAA)
688	Radio transmitter mount, fast drying plastic sets radio to sea lion back, plastic mesh protects skin
689	San Miguel Island, Adams Cove, 7/84
690	Injection, female sea lion, San Miguel Island
691	Wayne Perryman writes note among baby sea lions, captive female waits for release, San Miguel Island, California
692	Sea lion temporarily caged for blood samples, NMFS (NOAA)
693	Huey 53 delivers solar John

SLIDE	TITLE
694	Huey 53 delivers solar John to San Miguel lab, 7/84
695	Huey 53 on San Miguel Island, 7/84
696 – 699	Huey 53 crew, San Miguel Island, 7/84
700	Huey 53 Helicopter deliver solar John to lab, San Miguel, 7/84
701	Huey 53, San Miguel
702	Identification marker and sea lion, San Miguel Island, 7/84
703	Female sea lion is held with seat belts while radio is attached
704	Blind for seal counts, Ed Jameyson, Adams Cove, San Miguel, 7/84
705	Radio signal from sea lion records automatically, tells Bud Antonelis that tagged seals are on the beach
706	Female California Sea Lion blazed for identification purposes carries radio on back, radio on transmits from beach
707	Ed Jameyson works up day's fur seal count from blind
708	Radio attached to female California Sea Lions, seat belts restrain, now ready for release
709	Female sea lion restraining board, preparing injection, radio water, San Miguel Island, 7/84
710	Capturing sea lions for radio tags, NMFS (NOAA)
711	Karl Kenyon hiking to NMFS Research Station, July 1, 1984
712	Sea lion flipper on digit removed for identification, NMFS (NOAA)
713	Karl W. Kenyon, Adams Cove camp, San Miguel, July 1984
714	California Sea Lion, female drops dead pup, San Miguel Island, 7/84
715	Female California Sea Lion carries dead pup for several hours
716	Female California Sea Lion carries dead pup for an hour or so, San Miguel Island, 7/84

SLIDE	TITLE
717	California Sea Lion with dead pup, San Miguel Island
718	Female California Sea Lion carries dead pup for several hours before abandoning it, San Miguel Island, California
719	California Sea Lion cow with dead pup, abandons after an hour or so, <i>Zalophus californianus</i>
720	California Sea Lion cow and dead pup, <i>Zalophus californianus</i>
721	Female California Sea Lion, dead pup, San Miguel Island
722 – 725	California Sea Lion female with dead pup, San Miguel Island, 7/84
726	On the rocks, <i>Zalophus</i> , San Miguel Island, 7/84
727	California Sea Lion and dead pup, San Miguel Island
728	California Sea Lion cow and dead pup, abandoned finally, <i>Zalophus californianus</i>
729	Male California Sea Lion, <i>Zalophus californianus</i>
730 – 731	Bull guards females, California Sea Lion, <i>Zalophus californianus</i>
732	California Sea Lion, <i>Zalophus californianus</i>
733 – 734	Young bull attacks California Sea Lion females, <i>Zaphulus californianus</i>
735 – 736	“The challenge” California Sea Lion, <i>Zalophus californianus</i>
737 – 738	California Sea Lion brown back, male defends territory, <i>Zalophus californianus</i>
739 – 740	“Truce!” California Sea Lion, <i>Zalophus californianus</i>
741	California Sea Lion rookery
742	Female with identifying blaze and radio on back heads for sea
743	Tagged seal with transmitter, Adams Cove, San Miguel Island, 7/84
744	Blazes make identification possible in huge crowd, tagged California Sea Lion heads for the sea, radio tells when she is on the beach feeding baby

SLIDE	TITLE
745	Female California Sea Lion tagged with blazes and radio on back heads to sea, Energetics studies
746	California Sea Lions, San Miguel Island, 7/48
747	Bull and cow California Sea Lions
748	California Sea Lions, San Miguel Island
749	Bull and cow, sea lion in surf
750	California Sea Lions females turn dark in water, San Miguel Island, California
751	Female California Sea Lions in surf
752	California Sea Lions, Adams Cove, San Miguel Island, 7/84
753 – 754	California female sea lions turn dark in water
755 – 757	California Sea Lions, San Miguel Island, 7/48
758	Male California Sea Lions swarm over female in estrus, Adams Cove, San Miguel Island
759	Young males attack female in estrus, gang bang, California Sea Lion, <i>Zalophus californianus</i>
760	Young males copulate with female under tide water pong, Adams Cove
761 – 765	Male California Sea Lions swarm over female in estrus, San Miguel Island, Adams Cove, July 1984
766	One cow spots a stranger, all cows pop to attention, California females and pup sea lions
767	Defending his harem, California Sea Lion, San Miguel Island
768	California Sea Lions, vocal males compete for females
769	Breeding bull California Sea Lion
770	Female California Sea Lions thermo-regulate to cool themselves with flippers
771	Female California Sea Lions, San Miguel Island, 7/84

SLIDE	TITLE
772	Females and pups, California Sea Lions in breeding colony
773	California Sea Lions, San Miguel Island
774	Bull and cow California Sea Lions, Bull Elephant Seal
775	Estrus follows birth of young, California Sea Lion
776	California Sea Lion, <i>Zalophus californianus</i>
777	Happy bull, California Sea Lions, Adams Cove, San Miguel Island
778	Time for R+R, California Sea Lions, <i>Zalophus californianus</i>
779	Northern Elephant Seal returns to Point Bennett, male sea elephant, <i>Mirounga angustirostris</i>
780	Northern Elephant Seal, California Sea Lion
781	Extended family, San Miguel Island
782	Gull cleans beach, San Miguel Island, 7/84
783	[California Sea Lions]
784	California Sea Lions, San Miguel Island, Adams Cove
785	2000 lb sea elephant among 200 lb California female sea lions
786	California Sea Lion, breeding bull and cows, San Miguel Island, July 1984
787	California Sea Lion, cows and pups
788	Breeding, bull California Sea Lion
789	Female California Sea Lions and pups
790	Surf time, California Sea Lions, San Miguel Island, Adams Cove
791	Pup, California Sea Lions
792	[California Sea Lion and pups on beach]
793	Females and pups California Sea Lions, Adams Cove, San Miguel Island

SLIDE	TITLE
794	Male California Sea Lion
795	[California Sea Lion by water]
796	Male California Sea Lion herds family
797	Herding pups, California Sea Lions, San Miguel Island
798	[California Sea Lion and pups]
799	[California Sea Lion and pups]
800	Dunes and seals
801	California Sea Lion, female argument
802	California Sea Lion climbs for undisturbed nap high above the sea
803	California Sea Lions, west end, San Miguel Island
804	[California Sea Lions on beach]
805	California Sea Lion rookery, Adams Cove
806	Females California Sea Lion sometimes argue, nothing serious
807	Tagged female sea lion heads for ocean
808	Sea lion tagging, Adams Cove, San Miguel Island, July 12, 1984
809	[Sea lion on beach]
810	[Researchers with seal lion and pups on beach]
811 – 812	Sea lion tagging, Adams Cove, San Miguel Island, July 12, 1984
813	Non-breeding male California Sea Lions, north shore
814	California Sea Lions, San Miguel
815	“Give momma a hug” San Miguel Island, 7/84
816	“Mother and child” California Sea Lions, San Miguel Island

SLIDE	TITLE
817	Male California Sea Lion
818	Lonely, non-breeding California Sea Lions marked by fighting scars and some oil from a natural seep off San Miguel
819	California Sea Lion, San Miguel
820	Waiting for momma, sea lion pups, Adams Cove, San Miguel Island
821	Sea lions crowd flood pond on rare hot day in Adams Cove inside Pt. Bennett
822	North Elephant Seal like a tank, plows toward California Sea Lion and pup, note: difference in size
823	“Near miss”, Young pinnipeds are sometimes crushed under adults such as this north seal elephant, bulls may weigh over 1 ton
824	California Sea Lions, San Miguel Island
825	Like an African water hole, pinniped cool themselves around tide pool flood ponds
826	California Sea Lions gather around salt water pond in warm sunny weather, flood ponds
827	Female California Sea Lion, San Miguel, 7/84
828	Female and pup, San Miguel Island, California, 7/84
829	California Sea Lions, San Miguel, Adams Cove, 7/84
830	California Sea Lions, North Elephant Seals, tidal flood ponds cool fur seal colonies along surf line, Adams Cove
831	California Sea Lion rookery, Point Bennett
832	Seal capture techniques
833	[Seal capture techniques], Adams Cove, San Miguel
834 – 847	[Seal capture technique]
848	Antonelis tagging party, Adams Cove, San Miguel, 7/84

SLIDE	TITLE
849	[Seal capture techniques]
850	“Big daddy”, Wayne Perryman herding pups, Adams Cove, San Miguel, 7/84
851	Pup California Sea Lions herd together at tagging time
852	California Sea Lion harem, San Miguel Island
853	“Big daddy”, California Sea Lion harem, San Miguel Island
854	Female California Sea Lion against Elephant Seal
855	Pups and female California Sea Lions, San Miguel Island
856	California Sea Lions, San Miguel Island
857	California Sea Lions, 7/84
858	[California Sea Lions on beach]
859	Two males and females, California Sea Lions, San Miguel, 7/84
860	North Elephant Seal, California Sea Lion, different size of males
861	Bull and females, California Sea Lions
862	California Sea Lions and newborn pups, San Miguel Island, July 1984
863	Ladies argument in breeding colony, California Sea Lions
864	San Miguel Island, male and females – lots, California Sea Lions
865	Fishing tide pools, Karl Kenyon casts for dinner, San Miguel Island
866	Females leave pups to food for about four days at sea, three ladies California Sea Lion, <i>Zalophus californianus</i>
867	[Sea lions on beach]
868	California Sea Lions, bull and cows, San Miguel Island
869	Lone bachelor, California Sea Lion, San Miguel Island
870	Female California Sea Lions at water edge, San Miguel Island

SLIDE	TITLE
871	Young northern Elephant Seal, <i>Mirounga Angustirostris</i>
872	Dental check young northern Elephant Seal, seal lack chewing teeth of land mammals
873	Northern Elephant Seal
874	Dental check, young northern male Elephant Seal, seals lack chewing teeth of land mammals
875	Young Elephant Seal, San Miguel Island, 7/84
876	Young northern Elephant Seals spar, chorus line
877	Northern Elephant Seal, San Miguel Island, 7/84
878	“Peek-a-boo”, northern Elephant Seal, San Miguel Island
879	Young Elephant Seal, San Miguel Island, 7/84
880	Young northern Elephant Seals spar
881	Male northern Elephant Seal and California Sea Lion
882	Northern Elephant Seals, Adams Cove, San Miguel Island
883	Young Elephant Seal paddles through sand
884	Elephant Seals and California Sea Lions
885	Largest concentration of pinniped species in the world – post breeding Elephant Seals, breeding California Sea Lions
886	Young north Elephant Seal
887	Coming ashore, bull north Elephant Seal, sheds old skin in summer, Adams Cove
888	Between breeding seasons lethargic Elephant Seals swish sand or feed in deep water
889	Northern Elephant Seal hind flippers drag in sand
890	Sand protects northern Elephant Seal from sun, <i>Mirounga Angustirostris</i>

SLIDE	TITLE
891	Elephant Seal, Adams Cove
892	Harbor Seal
893	Harbor Seal (sick?)
894	Northern Elephant Seals, Adams Cove
895	Duct, Northern Elephant Seals, Adams Cove
896	Male northern Elephant Seal, Mirounga Angustirostris, Point Bennett, Adams Cove
897	Durenti, Northern Elephant Seal
898	Baby California Sea Lion, while female is feeding at sea, her baby explores huge world of sand, flipping Elephant Seals, <i>Zalophus californianus</i>
899	While females are fishing, a pod of young California Sea Lions explore the big world of northern sea elephants sleeping in their sand baths
900	New born California Sea Lions among huge sea elephants
901	Northern Elephant Seals, Adams Cove
902	Northern Elephant Seals, Point Bennett
903	Young male northern Elephant Seals spar
904	Young northern Elephant Seals spar
905	California Sea Lion, Adams Cove
906	[Northern Elephant Seal]
907	Northern Elephant Seal
908	“Get lost”, Northern Elephant Seal
909	[Northern Elephant Seal]
910	Young Northern Elephant Seals spar, mock combat
911	Northern Elephant Seal

SLIDE	TITLE
912	Like peas in a pod, Northern Elephant Seals in Adams Cove
913	Sea Monster, Northern Elephant Seal
914	Female Northern Elephant Seal
915	[Northern Elephant Seal and California Sea Lions on beach]
916	Tagged Elephant Seal
917	Harbor Seals, north shore, San Miguel Island
918	California Sea Lions plow over Harbor Seals, north shore
919	California Sea Lions, Harbor Seals, 7/84
920	California Sea Lion comes ashore amid Harbor Seals
921	California Sea Lions climb over Harbor Seal
922	“Watch out Buddy”, California Sea Lions climbs over Harbor Seals
923	California Seal “windrow” near Judith Rock
924	California Sea Lions
925	South shore, San Miguel Island in fog
926	Bachelors, north shore, California Sea Lions
927	Scientists demonstrate how silhouettes frighten seals
928	One end of rookery peels off into sea, upset seals, sea lions
929	Judith Rock, south shore
930	South shore, Judith Rock, Taylor Bight
931	View toward Point Bennett
932	Judith Rock Area, south shore
933	High-tide backs sea lions against cliffs

SLIDE	TITLE
934	Foggy south coast
935	High tide
936	California Sea Lion rookery
937	North Fur Seal rookery, Castle Rock
938	[Cliffs by coast]
939	Point at Judith Rock
940	Silver sunlight in a foggy sea, Point Bennett
941	Rocky headland, south shore
942	[Point at Judith Rock]
943	Dune midden with caliche and land snail shells, back of Adams Cove, Point Bennett
944	Judith Rock, Taylor Bight, south shore
945	Judith Rock, south shore
946	South shore, Judith Rock, Taylor Bight
947	Fog light sunset, Point Bennett
948	Drifting sands, Adams Cove, Point Bennett
949	Point Bennett
950	Fog light sunset, Point Bennett
951	Water supply, Point Bennett
952	[Fog light sunset, Point Bennett]
953	Evening sky
954	Pink fog at sunset
955	Sunset over dunes at Point Bennett

SLIDE	TITLE
956	[Sun in fog]
957	Dune vegetation, Adams Cove
958	Normal fog, Castle Rock
959	Tide zones, north shore
960	[Dune vegetation]
961	[Sea lions on coastline]
962	Low tide, north coast
963	Sun penetrates evening for Point Bennett
964	Kelp beds, south shore
965	Cove east of Adams Cove
966	[Birds flying above beach]
967	[Sea lion on beach]
968	[Rocks by beach]
969	Ancient sandstones, north coast
970	North shore from Castle Rock
971 – 972	[Morning glory flower]
973	[Flower]
974 – 977	Malacothrix
978	Miniature fox endemic, <i>Urycon littoralis littoralis</i> , Island Fox
979	Island fox in maritime garden
980	Miniature fox endemic, <i>Urycon littoralis littoralis</i> (relative of gray fox)
981	Island fox diminutive endemic relative of mainland gray

SLIDE	TITLE
982	Miniature fox – a raccoon, each island offshoot gray fox
983	[Dune vegetation]
984	Red crab, <i>Pleuroncodes planipes</i> , tropical – washed dead on San Miguel, El Niño?
985	[Red crab, <i>Pleuroncodes planipes</i> , washed ashore, dead]
986	Red Crab, <i>Pleuroncodes Planipes</i>
987	Red crabs, <i>Pleuroncodes</i> , washed on surf grass
988	Calcareous red algae – low tide surf zone
989	<i>Lottia gigantea</i> , owl limpet
990	Low tide, <i>Peluetia</i> , owl limpet zones
991	Endemic Island Fox
992	Island Fox in wild garden
993	Island Fox visits Research Lab
994	Male Island Fox
995	(Miniature) endemic fox
996	(Miniature) endemic fox, <i>Urocyon littoralis littoralis</i>
997	Fox in a wild garden, Island Fox
998	[Miniature Island fox]
999	Island Fox
1000	Bud Antonelis, San Miguel Island, 7/84
1001	Bath and laundry, Pete's Cove Spring, Kenyon, North shore, San Miguel, 7/84
1002	Chumash ceremonial site, San Miguel Island, 7/84
1003	Loan slip, National Park Service Alaska

SLIDE	TITLE
1004	High waters, San Miguel Island, Point Bennett, Adams Cove, July '84
1005	Visiting Chumash Indian to NMFS Lab, San Miguel Island, 7/84
1006	Member of work party, San Miguel, 7/84
1007	Researchers map west end, San Miguel Island
1008	Permit sign, San Miguel Island, 7/84
1009	Capture and tagging, Adams Cove, San Miguel Island, 7/84
1010	Gentle hand quiets female seal while blood samples are taken and radio tag attached
1011	[Researcher at work]
1012	[Researcher with cylindrical equipment]
1013	[Researchers on beach with trapped seal]
1014 – 1015	[Seal trapped in net and block]
1016	[Researchers with trapped seal]
1017 – 1019	Karl W. Kenyon, San Miguel Island, July 1984