

Accession No.:96-06

Scripps Institution of Oceanography Archives  
PROCESSING RECORD

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Arthur, Robert Siple 1916-1995

Robert Siple Arthur Papers, 1940-1989

Physical Description: 2 Manuscript Boxes and oversize items

Description: The accession consists of 8 linear inches of papers of physical oceanographer Robert S. Arthur which largely document his career as a professor of oceanography at the Scripps Institution of Oceanography, University of California. The collection includes course notes for UCLA Meteorology 103, SIO Oceanography 110 (1956, 1961), 210 (1948-1949), 210b, and 211 (1951), a small amount of correspondence, and extensive notes on students of oceanography 1938-1959 apparently collected for a Report by The Committee on Education and Recruitment of the American Society of Limnology and Oceanography in 1960.

The collection also contains teaching notes and lists of Ph.D. committee on which Dr. Arthur served. The collection contains over a hundred color and black and white slides, including images of the campus of Scripps Institution of Oceanography and the University of California, San Diego, images taken on SIO expeditions including Shellback (July-August 1952), and images of Friday Harbor taken in 1950.

The collection includes several photographs, including a snapshot of Walter Munk and Harald Sverdrup in academic dress. The donor loaned an original negative of Clete Burke and Robert S. Arthur, c1946 and two portrait photographs of Robert S. Arthur in naval uniform for copying. The collection includes a copy of a color caricature of Harald Sverdrup labeled "J. Parilla, Seville, XXIX." The original of this item, signed "To Robert S. Arthur with thanks for years of collaboration from HU Sverdrup" and the original portrait photographs of Robert S. Arthur were returned to the donor.

The collection includes four cloth survival charts prepared by Harald Sverdrup during World War II under contract with the Army Air Force. These charts have also been referred to as "waterproof handkerchiefs" as pilots are said to have worn the silk charts as scarves. Their history is complicated and fully described in a memo in the Arthur control file. Briefly, in 1942, Capt. Eddie Rickenbacker's plane was downed over the Pacific and his rescue was delayed by the difficulty of locating survivors at sea. The Army Air Force initiated a contract with the Scripps Institution of Oceanography to prepare a series of pilot charts of Pacific areas annotated with information on currents which could be printed on silk and stowed in life boats to help meet such emergencies. The Air Sea Rescue Agency approved search procedures over oceans and indicated that the cloth survival charts were used successfully on many occasions in the Pacific.

The four cloth survival charts in this collection are identified as:

Chart C-44. Borneo, North (Winter); verso Chart C-43 Mindanao Island (Winter).

Chart C-860 Bintan Island (Summer & Winter); verso Chart C859, Penang Island.

Chart S12-2-36 Caroline Is., Central (Summer & Winter); verso S12-17 Marianas Is.

Chart S12-2-40 Caroline Is., Western (Winter & Summer); verso S12-2-20 Palau Is. Area & N.W. New Guinea.

In addition, the donor loaned for duplication another square printed on silk containing the instructions for using the survival charts. This item is entitled, "The Use of Cloth Survival Charts in the Navigation of Rubber Rafts," Air Intelligence Group, Division of Naval Intelligence, Office of the Chief of Naval Operations, Navy Department, Washington, DC (Prepared by H.O.) OPNAV-16-V #S109, Reproduced for Headquarters, Aeronautical Chart Service, Army Air Forces. A copy negative and prints was made of this item, and the original item was returned to the donor.

Scripps Institution of Oceanography—History; Oceanography—History; Meteorology—History; Military meteorology--United States—History; Shellback Expedition, 1953; Arthur, Robert Siple, 1916-1995; Sverdrup, Harald Ulrik, 1888-1957; Burke, Cletus Joseph, 1917- ; Munk, Walter H. (Walter Heinrich), 1917- ; Stommel, Henry M., 1920-

**Robert Siple Arthur  
Papers, 1945-1981  
Scripps Institution of Oceanography Archives  
Accession Number 96-06**

<b>BOX</b>	<b>FOLDER TITLE</b>
1	RSA Personal, n.d.
	RSA Personal, 1944-1979
	RSA Personal, 1981-1989
	RSA Correspondence, 1950-1988
	RSA Signed and Annotated Reprints, 1940-1950
	RSA Signed and Annotated Reprints, 1954-1957
	RSA Signed and Annotated Reprints, 1962-1981
	RSA Notes, Oceanography 110, 1956
	RSA Teaching Notes, Introduction to Physical Oceanography #110, 1961 Fall Semester
	RSA Notes for Course 210B, Physical Oceanography, n.d.
2	RSA Wave Notes Course 211 Walter H. Munk, also UCLA Meteorology 103 Notes, n.d.
	RSA Class Notes for a Course in Ocean Waves #211, 1951
	RSA Notes on Teaching, 1949-1967
	RSA Beta Spiral Notes, Stommel & Schott, 1979
	RSA Student Committees, 1950-1953
	Summary, Students Majoring in Physical Oceanography , 1938-1955
	Recruitment Report Statistics for SIO, 1938-1970
	Photographs, c1946
	Cloth Survival Charts, 1943-1944
	Cloth Survival Charts, 1943-1944
	RSA Slides (No captions listed)
	RSA Slides (No captions listed)

**BOX****FOLDER TITLE**

2

RSA Slides, Friday Harbor, 1950 (Slide Captions Listed Below)

June 1950. Cantilever Pier

June 1950. Cantilever Pier

June 1950. Cottages at Friday Harbor

June 1950. Lab Buildings

June 1950. Lab 6

July 4, 1950. Woods at Friday Harbor

July 4, 1950. Fishing boat and lab beyond

July 4, 1950. Mail boat and Brown Island

July 6, 1950. Oceanography Class on the "ONCHY,"  
Waldichuck, Wang, Burtner, Ayres, Barnes, CarlsonJuly 6, 1950. 1026 PST. View to East Toward Alden Pt., Patos  
Is. of BoundaryJuly 6, 1950 1030 PST. Water Boundary Looking Toward  
East Pt., Saturna Is. Rough water ...July 11, 1950. Cleve Van Hersleus Skipper on HYDA and  
Winch Assembly.July 11, 1950 0900. U.S. Army FS-210 at Lab Dock after  
Bringing Panel on OceanographyJuly 11, 1950 1030 PST. Tide rips looking south toward  
middle channelJuly 11, 1950 1035 PST. Rips and Boils in middle channel  
between Deadman and Goose Islands. Flood Current 2-3  
Knots from OnchyJuly 11, 1950 1040 PST. Whirlpool, boils, rips in middle  
channel from ONCHY

July 11, 1950 1700 PST. Turn Island and Ware of Onchy

July 11, 1950 1700. Cantilever Pier and Turn Is. - Note slicks

July 11, 1950. Heavy Grab Sampler Ready for Lowering

July 21, 1950. 3 FT. Mud Core from South of East Sound

**BOX**

2

**FOLDER TITLE**

RSA Slides, Friday Harbor, 1950 (con't)

July 21, 1950. Coring Device

July 21, 1950. Cleve's HYDA

July 21, 1950. HYDA approaching dock

July 21, 1950 Kuellenberg Type

July 21, 1950. Grab Sampler "Ready"

July 21, 1950 1136 PST. Grab Sampler on Deck and  
Release of SampleJuly 21, 1950 1138 PST. Grab Sample from 50f between  
Lawson Reef and Smith Island Shell and Coarse MudJuly 21, 1950 1140 PST. Emery Type Sampler in "Ready"  
position

July 29, 1950. View of Onchy From Dock

July 29, 1950 1430 PST. McConnell Is. Yellow Is. Jones Is.  
Orcas from Heaven-Note slicksJuly 30, 1950 1030 PST. View Toward West and Victoria  
Across Haro Strait, View from Near Lime Kiln LightJuly 30, 1950 1030 PST. Slicks Across Haro St. from near  
Lime Kiln Windblown Douglas FirJuly 30, 1950 1030 PST. Slicks to North from Near Lime  
KilnJuly 30, 1950, 1030 PST. View of slicks to south from Near  
Lime Kiln Light Haro strait Tide Ebbing from N. to S. at 1-  
2 KnotsJuly 30, 1950, 1030 PST. Windblown Fir Haro Strait from  
Lime Kiln Region

July 30, 1950 1500 PST. Yellow Island from "Heaven."

July 30, 1950 1500 PST. Harvey Channel from "Heaven."

July 30, 1950 1500 PST. Jones Island Toward Boundary  
Pass from "Heaven" Note current patterns

**BOX****FOLDER TITLE**

2

RSA Slides, Friday Harbor, 1950 (con't)

July 30, 1950 1600 PST. View of Lab Dock

July 30, 1950 1600 PST. Ferry "Klickitat" and Mt. Baker from Cantilever

August 2, 1950 1000 PST 11' Mud Core Depth of 16f off Rosario, East Sound Frank Wang on HYDA

August 4, 1950. Urchins and Star Fish at Friday Harbor

August 4, 1950 0900 PST. Vertical Velocity Meter in still water off U. of W. Lab Dock

August 4, 1950 0915. Cliff Barnes With BT [bathythermograph] on HYDA off cattle PT

August 4, 1950 1300 PST. Lowering Current Cross 60' Line Attached to Buoy

August 4, 1950 1320 PST. Buoy Drifting with Deep Cross off Salmon Bank LT. Current 1 Knot to N.W. Note Wake Current Pole showed Spc. Current on 1 Knot to SW

August 7, 1950 The Steam Engine

August 7, 1950 Thomas G. Thompson, Jr.'s Steamboat at Lab Dock Note Fuel!

August 8, 1950 1120 PST Current Pattern in San Juan Chan. Viewed from Near Cantilever toward Shaw Island wind 7mph-E-Anemograph

August 9, 1950 1200 PST. Line of Vortices viewed from Cantilever to south wind 9-10mph, SSE

August 11, 1950. Vertical Velocity Meter and Mike Waldichuck

August 11, 1950. 1530 PST. Vertical velocity Meter in Tide Rip of TURN Light during Flood Current

August 12, 1950, 1730. Fishing boats at F.H.

August 12, 1950 1630. Madronna Tree in San Juan Park

August 16, 1950 1630 Ferry "NISQUALLY" As Viewed from Lab 6