



National Oceanographic Library - Archive

Dr John Swallow Bequest

Items held in the

**National Oceanographic Library
Archive
(with a brief biographical note)
(Archive B Stack 11)**

**(Dr John Swallow Book Collection
held in the John Swallow Room)**

Dr John Swallow Bequest collection and cruise data boxes (including his book collection housed in the John Swallow Room) – Physical oceanographer

Brief biographical note

Dr Swallow –principally known for the development of neutrally buoyant floats, a method for measuring ocean currents in which a slowly falling sound source was tracked by sno-buoys at the surface with the source on the sea-floor, and for his discovery of the energetic variability of the deep ocean flow. Dr Swallow joined The National Institute of Oceanography in 1954. The first Swallow Float was constructed using a standard building site scaffolding tube whose dimensions were carefully adjusted to create with some simple electronics and nickel transducer. His first use of the floats was immediately successful in the eastern Atlantic, and yielded some of the facts oceanographers know now about the fluctuation of the deep currents there. A sideline of this research was the broadening of the National Institute of Oceanography's interest in precision echo-sounding, which was recognized at the time as a valuable navigational tool as well as for geophysical research. He predicted a southward undercurrent below the Gulf Stream. Henry Stommel (Woods Hole Oceanographic Institution) and John Swallow organized the Aries Expedition (1959/60) (named after the ketch that WHOI lent him for the work. This led to the clear identification of deep energetic eddies in the ocean, and contributed to a profound change in oceanographic thinking about circulation. His research radically altered the way we view the world's oceans and their dynamics.

Amongst his other achievements – his participation in the International Indian Ocean Expedition –Mid Ocean Dynamics Experiment which led to work on the circulation of the Arabian Sea and Equatorial Indian Ocean. He was prominent in planning the work in the Indian Ocean (INDEX International Expedition), and the resulting discoveries concerning the modes of evolution of the 'Somali Current' after the onset of the SW Monsoon. He received many awards including the Prince Albert I (Monaco) Medal.

John Swallow Bequest items held in the National Oceanographic Library - Archive

Red Box HC 1 - Books

The Bombard Story – Alain Bombard 1953

Hydrographical Tables – Knudsen 1901

Octopus and Squid – J-Y Cousteau 1973

Darwin's Voyage – Charles Darwin 1907 2nd Edition

Biologist Philosopher Life and Writing of Alfred Russell Wallace – Wilma George 1964

Sailing Ships their history and development - G.S.Laird Klowes 4th Edition 1952

Aquatic Resources Hawaiian and Islands US Fish Commission Vol 23 1903 Part 2/1906

Aquatic Resources Hawaiian and Islands US Fish Commission David Starr Jordan and Barton Warren Evermann Part 1 Shore Fishes

The Explorers and Anthology of Discovery G.R.Crone 1962

Seismic Investigations at Sea JC Swallow Ph.D. thesis (To Maurice Hill 25 October 1950)

Pamphlet the Global Weather Experiment

Wild Life in the Sub Antarctic J.H. Sorrensen 1951

The North West Passage G.M. Thomson 1975

The Great United States Exploring Expedition William Stanton 1975

John Harrison and his timekeepers Rupert T. Gould R.N. 1958

Here is the weather forecast E.G. Bilham 1947

Polar Exploration William S.Bruce 1911

The Cruise of the Falcon E.F. Knight 1886

Arctic Expeditions from British and Foreign Shores D. Murray Smith 1877 (No covers)

A Partial Bibliography of the Indian Ocean W.H.O.I. 1962

A.S.R.E. Tech. Note TX/50/1 De Walden and Swallow

Red Box HC 2 Files

Notes and Drawings Indian Ocean Feb 94
Indian Ocean Correspondence May 86 – December 88
Misc. Correspondence with I.O.S.
Indian Ocean Meeting Miami November 19-20 1984
Text and Diagrams for I.O. Panel Delhi Jan 1985
Discovery Cruise 162 – CD Cruise 3/84 and 1/85
C.C.C.O IO Panel Delhi Jan 85
C.C.C.O Panel File 2 Starts April 84
Correspondence with Brenda
Stommel 1816 Non existent islands
JADE – 2 and Indian Ocean 1991/92
New Meteor Equatorial Atlantic October 1990
ASQ Life with NERC
HEYE Last Prog Oceanog paper
Indian Ocean Bibliography notes
On Being an Editor of Deep Sea Research

M.F. Maury Meiklejohn Memorial Notes
Florida Tropical Oceanography Conf November 1965
Oxford Symposium Cartography 1963
Oxford Symposium Cartography 1963
Notes from Doug Webb re gliders
Ship Reports of Somalia
US WOCE Indian Ocean Review Panel
Challenger Society and Oceanography Society Correspondence
Ex CTD's in Indian Ocean July 1992
Vienna IUGG Meeting 1991
Indian Ocean and Climate March 1983
Correspondence Brookhaven Feb 1991
INDIGO Meeting Paris November 1987
Indian Ocean correspondence Sept 1993 onwards
Circulation of Indian Ocean Review Paper with Schott 1984 onwards
Indian Ocean and Climate CCO Panel June 81 to April 83
Indian Ocean and Climate April 83 to March 84

HC3 (Notebooks)

Big Sky Montana Jan 1980
WHOI Sept Oct 1980
SCOR WG 47/ICSU Feb 1980/Rhines talk Feb 1980
WOCE CP1 Nov 86
IO Panel Apr 87
IUGG SCOR WG 21 Aug 71
Press clippings
JOA Sept 76
Correspondence LHN Cooper
Notes for meeting AUWE May 1961
Election to Royal Society Personal Letters
IUGG Grenoble 1975
Discovery Surface Currents April/May 1971 Geoff Howe

Poisoned Sea and other misc. topics
Index correspondence
CINCWIO
FINE Workshop and Working Group 47
Bigelow Medal
JCS Rakestraw
IUGG 1975
Files Indian Ocean Notes and Data
Files Discovery Cruise 102 XBT's
Large waves and flooding in Maldives
Aries Decklog
Atlantis 2 XBT Data
South Equatorial Current
Station Data ARGO
Discovery – Bruce Hamon
Monaco museum List of science instruments (3 volumes)
International ice patrol Bulletins 17,21,23,24,25,27,28,29(x2)

HC 4 (Blue Label)

Discovery 102 Navigation

HC5

IIOE Data

HC6

Somali Current Historical

HC8

MEDOC 69

HC 9

Marion Dufresne '85, '86

HC 10

MD 44/49

HC 11

Historical Equatorial Jet and other climate related work

Discovery 164 RTP

HC12 INDEX Data Various Ships

HC 12

Miscellaneous data

(Added item via Pauline Simpson, Librarian NOL 2006 – Believed to be a Marianas Trench sounding profile, but not validated (by John Gould or James Crease))

HC 13

IO current work with Molinari

HC14

Shackleton 1975

HC15

Indian Ocean Current Meter Stations

HC16

Discovery IIOE Sections (Box 2)

HC 18 Discovery 102

2 Boxes -4 card index boxes. Indian Ocean bibliography

1 Box - Photographic slides and prints of oceanographic cruises and scientific visits

Bradbeers 1

Yellow file WOCE in the Indian ocean

File INDEX occasional notes

File Somali current correspondence with Met office 1964 –

Letters re UK WOCE

Correspondence file WOCE planning

File INDEX 1976

File WOCE CP1

File relating to award of Bigelow medal 1962

File re Jon Rees (UEA) PhD

Copy of Rees PhD thesis

Correspondence with Doug Webb re “fast fish” profiler

File with letter of job offer from GERD to JCS 1954

Knox Gan data

All surface currents Bob Munns

Brenda Deacon interview with JCS 1994 (R Met Soc)

Draft of “Existence Doubtful” (Henry Stommel)

Draft of “A view of the Sea” Henry Stommel

Green Box File HMS Challenger RTW cruise

Discovery BT logs IIOE 1964

Bradbeers 2

Photo of Admiralty group at Stonehouse 1945 (with M McKenzie)

Microfiche of IO surface currents

Arabian Sea XBTs HMS Hydra/HMS HECATE May June 1978

BT Section Indian ocean Anton Bruun and All

Small note book JCS 1950

Life and activities of a physical oceanographer Norris Rakestraw

Photographs Aries etc.

Correspondence with Bruce Hamon

Photo of JCS Bermuda, Mode

Bermuda correspondence 1959 – 60

Bermuda current plots Aries
Gerold Seidler Ph.D thesis
File Indian Ocean Bibliography
Bermuda correspondence
NIO Library material
Somali Basin work – Green box file
Photos of HMS Challenger given to JCS by Dr Carruthers
Letters relating to Erica Dan IGY
Photographs Discovery 2
Photographs relating to JADE cruise
Misc. photographs HMS Challenger
Slides HMS Challenger
File AMSOC and Albatross
Early days with NS floats – slides and talk
Stommel medal talk and view graphs
Indian Ocean correspondence 1989-1993
Albatross file
File Indian Ocean circulation
Misc. letters from Henry Stommel
File – Phil Williamson
File – Challenger legacy 1995
CCCO Islamabad 1988
Marian Dufresne 1988

Lamont and Shaw Box

Green box file Oman 1988
Green box file misc. correspondence
Green box General Indian Ocean Correspondence

Bradbeer 3

(*Books in Bradbeer 3 transferred to NOL stock)

Magazines with ocean articles

Met office admiralty weather charts
*Phys Geog of the sea Maury
Beaufort of the Admiralty Friendly
*The sea Miller
*The Sea Vol 3 Hill
*Phys Ocean Defant Vol 1 and Vol 2
*Monsoons of IO Duing
*New world of the Ocean Behrman
*Faroe Shetland Channel Tait
*Boundary Layers Bowden et al
*Rao Bay of Bengal Arabian Sea
Hill Phd Thesis
*Summerhayes and Thorpe
*Atlas of Arabian Sea
GEOSECS Atlantic
GEOSECS Pacific
POLYMODE Atlas

GATE Atlas

Stommel Photo

Meteor plaque

MD Plaque

Loose

Sundry large format Admiralty weather and ocean folios

Green file

MODE-1 Data box

MODE-1 (Mid-Ocean Dynamics Experiment) data RRS *Discovery* Cruise 53

(Includes: 9 log sheet, files & MODE-1 Density Program Operations manual March-June 1973,

NIO Cruise Report, 58 RRS *Discovery* Cruise 53, April-June 1973. Physical Oceanography

In the Western North Atlantic Ocean (contribution to MODE-1)

(NB: From J.Crease via Pauline Simpson – put with Swallow Bequest 2005)

2 Card Index Drawers – Mediterranean Deep Water Formation & Mediterranean Outflow

9 Atlases