



Dr John Swallow Bequest

Items

held in the

**National Oceanographic Library
Archive**

**(Dr John Swallow Book Collection
held in the
National Oceanographic Library)**

Dr John Swallow Bequest collection and cruise data boxes (including his book collection housed in National Oceanographic Library) – 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 surface buoys 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)
Seismic Investigations at Sea JC Swallow Ph.D. thesis (To Tom Gaskell 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

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 AII

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

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

9 Atlases