

Dr T.J. (John) Hart Collection

Archive Location	Archive A – Individual Collections
-------------------------	---

Dr Thomas John Hart (1907-1970), was a distinguished British authority on marine diatoms. In 1929, after graduating with first-class honours in Zoology, Leeds University joined Discovery Investigations, which was later to grow into the National Institute of Oceanography. As a scientist, he served on RRS *Discovery II* in the Southern Ocean on her 1st, 3rd, and 5th Commissions (1929-31, 1933-35, and 1937-39); he also served in RRS *William Scoresby* in 1936-37 and 1950. He obtained an MSC in 1934, and DSc for published work in 1935. Despite his training in zoology, he is principally known for his work on phytoplankton, and in particular for two Discovery Reports, *On the phytoplankton of the South-West Atlantic and Bellingshausen Sea, 1929-31 (1934)*, and *Phytoplankton periodicity in Antarctic surface waters, (1942)*, both of which are still widely read and cited. Amongst other publications, in 1946 he published another Discovery Report, *Report on trawling surveys on the Patagonian Continental Shelf*, drawn mainly from manuscripts left by the late ER Gunther, which he readily acknowledged. He also published preliminary accounts of the Benguela Current plankton investigations in 1953, and was joint-author with R.I. Currie of the Discovery Report, 31, 123-298, 1960, *The Benguela Current*. He also researched the phenomena Discoloured (Sea) water.

John Hart joined Discovery Investigations in 1929, remaining with them until 1939, and then was with the National Institute of Oceanography from 1949 to 1970. He was awarded the Polar Medal in 1940.

John Hart's additional research material is housed as part of the National Oceanographic Library Archive: *Discovery Investigations Cruise Data, Documents, Archive Inventory 1925-1939, with suppl. 1950-57, related data* (NOL Archive Listings/ Main Archive Collection)

This collection was donated by his son, Richard HA Hart in August 2005.

Item	Box
Item 1. Sketch map/notes for figure 1, for Paper in <i>Nature</i> , 171 (4354), pp.631-634, 1953, <i>Plankton of the Benguela Current</i> . (6 items in a tied tube)	1
Item 2. Diatoms – raw data and drafts for figs 1-5, for Paper in Discovery Reports, Vol.10, pp.247-282, 1935, <i>On the Diatoms of the skin films of whales, and their possible bearing on the problem of whale movements</i> . (6 items in a tied tube)	1
Item 3. Raw data - phytoplankton data and draft sketch maps (5 items in a tied tube)	1
Item 4. Sketch maps – data, position of Stations, Southern Ocean/ South Atlantic (7 items in a tied tube)	1
Item 5. Graphs – raw data (4 items in a tied tube) <ul style="list-style-type: none"> • First survey Micrura Paint-Line log, phytoplankton/logs copepod – sea miles from land E. to Right. • First survey Southern Intermediate Line, phytoplankton/logs copepod – E. to Right. • First survey Sylvia Hill Line, phytoplankton/logs copepod – E. to Right. • First survey Orange River Line, phytoplankton/logs copepod – Sea miles from coast, from right to left. (4 items in a tied tube)	1

<p>Item 6. Raw data: Phytoplankton data/ draft sketch maps/ data, Assimilation pigment content in arbitrary units, M³ based on hauls from 50-0m.</p> <ul style="list-style-type: none"> • South Atlantic Ocean • South Pacific Ocean • Antarctic Convergence • Circumpolar (Southern Ocean) (2 sketch maps) (5 items in a tied tube) 	1
<p>Item 7 – Print “A bolt from the blue” – HMS <i>Warspite</i> and destroyer flotilla in action at Narvik, April 13, 1940. From a painting by Frank HM Mason RI, for the Northern Aluminium Company Ltd, Banbury, Oxfordshire. (1 print in cardboard tube (Northern Aluminium Company Ltd.))</p>	1
<p>Item 8 – 2 Sketch maps</p> <ul style="list-style-type: none"> • Steaming of RRS <i>Discovery II</i>, December 1929-June 1930, London to Falklands Islands – South Georgia – Simonstown. • Work of RRS <i>Discovery II</i> in the seas round the Falkland Islands Dependencies, January – May 1930, showing, Full Stations, towed nets only, diatoms, trawl or dredge. 	1
<p>Drawings/ drafts/ raw data for paper: <i>Discovery Report, V.21, pp.261-356, Phytoplankton productivity in Antarctic surface waters, 1942.</i> (26 items in a tied tube)</p>	2
<p>Framed photograph of view of Shackleton Monument, Gritviken, (probably T.J.Hart on skies next to monument. (foxing on mount)</p>	2
<p>Item 1 – Draft maps/data for <i>Discovery Report, V.16, pp.413-446, Rhizosolenia curvata, Zacharias, an indicator species in the Southern Ocean, 1937.</i> (5 items in a tied tube)</p>	3
<p>Item 2 – Draft maps/ data for <i>Discovery Report, V.8, pp.247-282, On the phytoplankton of the Southwest Atlantic and the Bellinghausen Sea 1929-31, 1934.</i> (2 items in a tied tube)</p>	3
<p>Item 3 – Draft maps/ data for figures in <i>Discovery Report, V.8, pp.247-282, On the phytoplankton of the Southwest Atlantic and the Bellinghausen Sea 1929-31, 1934.</i> (5 items in a tied tube)</p>	3
<p>Item 4 – Draft maps/ data for figures in <i>Discovery Report, V.8, pp.247-282, On the Phytoplankton of the Southwest Atlantic and the Bellinghausen Sea 1929-31, 1934.</i> (5 items in a tied tube)</p>	3
<p>Item 5 - Draft data for figures in <i>Discovery Report, V.8, pp.247-282, On the Phytoplankton of the Southwest Atlantic and the Bellinghausen Sea 1929-31, 1934.</i> (8 items in a box tied in card in a tied)</p>	3

<p>Folder of mounted photographs:</p> <ul style="list-style-type: none"> • RRS <i>Discovery II</i> in brash and glacier ice in Visca Anchorage, Admiralty Bay, King George Island, South Shetlands. Landing party with motor boat and pram on beach in foreground. Alfred Saunders photograph, large mounted photograph with smaller print with H.J.Hart notes on the back, Ref: Z.95. • RRS <i>Discovery II</i> in Port Lochroy, Palmer Archipelago, January 1935 when plane, dogs and heavy stores for the first base of the British Graham Land Expedition were discharged with RRS <i>Discovery II's</i> own boats. Large mounted photograph (probably Alfred Saunders photograph), with smaller print with T.J.Hart notes on the back. • Mounted photograph of officers, crew and scientists (including Henry Herdman and Neil Mackintosh), RRS <i>Discovery</i> on board ship with officers and crew in formal uniforms © Photograph Elliot & Fry, Baker St., London. • Mounted photograph of officers and scientists (including Henry Herdman and Neil Mackintosh), on board RRS <i>Discovery</i> signed by Elliot Fry © Photograph Elliot & Fry, Baker St., London. 	<p>Archive A Plan Chest Cabinet Drawer 4</p>
<p>Wooden box of glass negatives (own photographs) – people and places, mainly of South Africa and some of Tristan da Cunha.</p>	<p>4</p>
<p>Wooden box of trays of slides (molluscs), and shallow water botanical samples. (Purchased items, not Discovery Investigations material).</p>	<p>4</p>
<p>Box of botanical samples</p>	<p>5</p>
<p>Stock of whale marking gun “RRS William Scoresby”</p>	<p>5</p>
<p>Wooden box of microscope slides (19th Century) (Purchased items, not appertaining to Discovery Investigations)</p>	<p>6</p>
<p>Amphipod slides (shallow water) – probably not Discovery Investigations work/material</p>	<p>6</p>
<p>Antarctic Club tie in tissue paper</p>	<p>7</p>
<p>Wooden cigar box (Du Barry, Havana) containing purchased botanical slides</p>	<p>7</p>
<p>Envelope containing miscellaneous personal photographs RRS <i>Discovery II</i> and RRS <i>William Scoresby</i> 1930s scenes on board ship, landscapes – ships – whales – and photographs of crew on board Marine Biological Association ship “Sulu” and SWAN and Alfred Saunders photographs.</p>	<p>7</p>
<p>Envelope marked <i>Discovery Investigations</i> – containing photographs mainly South Georgia, South Shetlands and penguins, and a Christmas Card “RRS <i>William Scoresby</i>”, <i>with best wishes for Christmas and the New Year and love from daddy</i> in Hart’s own hand.</p>	<p>7</p>
<p>Photograph Pocket Book – personal photographs includes views of the Whaling Station, Grytviken, South Georgia, Landscapes - King Edward’s Point, Mount Paget from Cumberland Bay, Ca. early 1930s.</p>	<p>7</p>
<p>“Ensign” film storage Album (green cover) – personal photographs (negatives), mainly landscapes, 33 Negatives (list in the front)</p>	<p>7</p>

<p>Discoloured water – notes – records – references/data</p> <ul style="list-style-type: none"> • Folder – Discoloured water correspondence/ notes 1968-1969 • Folder - Discoloured water reports, trial arrays etc. Ca.1952-1969 • Folder - Discoloured Water Practical Collection Scheme – T.J.Hart notes • Folder - Discoloured water literature, notes and references • Folder - Discoloured water National Institute of Oceanography Committee 1966-1970 notes/correspondence • Folder – Discoloured water HMS “Mohawk” samples 1965 – correspondence/notes • Folder –Discoloured water caused by Pleuroncodes planipers, Hurricane “Janet”, Caribbean 1959, correspondence/notes Meteorological Office • Folder - Discoloured water leaflets/ sheets ‘To preserve a sample of Discoloured Sea-water’, with a letter to James Sykes at the BCF Biological Field Station, Florida, 1966 about the 1964 Symposium on Red Tide by James Sykes, US Bureau of Commercial Fisheries, Special Scientific Report – Fisheries, No. 521 (Marked “Benguela Current Microplankton MSS”) • Folder - Discoloured water correspondence/notes 1954-1969 (additional folder) • Log book – Discoloured water – reports, logs for merchant ships giving Discoloured water No./ Ship Name/ Master/ Observer/ Date/ Time/ Position/ Colour/ Notes 1952-1964 • Log Book/data – Discoloured water record of Tabular 1950 (Benguela Current 1st Survey March 1950). 	8
<p>Book of data with notes:</p> <ul style="list-style-type: none"> • Benguela plankton data • Stability factor calculations • Plymouth Hake Merluccius merluccius L/ 4, 1988/ Plymouth Merluccius September/October/ 1948, Ser I-IV 1948 • Benguela Group totals – microplankton – log – values (Benguela Survey 1st 1950; 2nd Survey 1955) • Benguela Coratia • Discoloured water records / copies of tabular (RRS “William Scoresby”) 	9
<p>Notebook on ‘Red water’ and other discolourations of the sea by living organisms, no date</p>	9
<p>Notes in paper clips ‘Recent discoloured water notes’ / logs 1953-1961</p>	9
<p>Notebook – containing:</p> <ul style="list-style-type: none"> • data/ position of discoloured water reports for checking nos.against samples 1953-1958 • Samples of discoloured water colours in crayon with corresponding Nos.1-12 • Complete plotting list for all available Atlantic data (Mediterranean excluded) 1953-1960 • Complete plotting list for the Red Sea, north of the Strait of Babel Manzeb 1953-62 • Plotting list for Arabia Sea 1952-1960 • And other data/ notes 	9
<p>Packet containing photographs of examples of Discoloured water, with negatives</p>	9
<p>Box of discoloured water catalogue references A-Z</p>	9
<p>Discoloured (Sea) water phenomena reports 1-224 and un-numbered from shipping – abstracts/ correspondence 9 August 1952 – June 1968. Reports received from shipping sent to John Hart from the Meteorological Office, Bracknell (2 folders).</p>	10

3 Boxes of card references, including references used in the Benguela Current Report and Specation Paper (Discovery Report, V.31, pp.123-298, *The Benguela Current* by T.J.Hart and Ronald I. Currie, 1960)

11