

Catalogue of the papers and correspondence of

Sir Alan Lloyd Hodgkin OM FRS

(1914 - 1998)

VOLUME 2

Section C, Research

by Simon Coleman, Peter Harper and Timothy E. Powell

NCUACS catalogue 136/1/05

SECTION C	RESEARCH, C.1-C.1127	1934-1991
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C.1-C.105 NOTEBOOKS

C.106-C.1127 FILES FOR EXPERIMENTAL AND
THEORETICAL WORK

C.1-C.105	NOTEBOOKS	1934-1987
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C.1-C.67 Experimental notebooks

C.68-C.105 Theoretical and general notebooks

C.1-C.67	Experimental notebooks	1934-1986
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The notebooks chiefly cover experimental work carried out at the Physiological Laboratory, University of Cambridge, and the Marine Biological Association laboratory, Plymouth. Hodgkin's first summer at the MBA was in 1939 when he worked for the first time with A.F. Huxley on squid nerve fibre. After the interruption of the war years their work resumed at Plymouth in 1947 and was completed by the publication of five papers in 1952.

Where known, information on the nature of the experiments is given. The contents are chiefly tables of experimental results, often with notes on the details of particular experiments, with diagrams and calculations etc. Dates, where found, are sometimes inscribed at the top of a page, on the cover, or on pages, though some notebooks have no dates on them. Intercalated pages of notes or graphs are also found. Entries in the hands of others, chiefly A.F. Huxley and B. Katz, frequently appear.

Pagination given where found.

Arranged chronologically.

C.1

Hardback notebook.

Re Hodgkin's first research on nerve action in his final year as an undergraduate. Included are notes on experiments to block conduction in frog's nerve.

October -
December
1934

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Research

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At the front are loose pages of notes giving an account of the experiments up to Christmas 1934.

Paginated 1-35.

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|-----|---|------------------------------|
| C.2 | Spiral bound notebook. | 1935 |
| | Contains photographic data, attached to pages with adhesive, and accompanying manuscript notes. | |
| C.3 | Spiral bound notebook. | December 1935 - July 1936 |
| | Included are notes on further 'blocking' experiments (see C.1). | |
| | Paginated 1-89. | |
| C.4 | Hardback notebook. | October 1936 - |
| | Included are notes on further 'blocking' experiments (see C.1 and C.2). | [?November] 1937 |
| | Paginated 1-52. | |
| C.5 | Hardback pocket notebook. | July 1938 |
| | Used by Hodgkin during his year at the Woods Hole Marine Laboratory, Massachusetts, USA, 1937-1938. | |
| | <i>Re</i> experiments on squid nerve fibres. | |
| | Paginated 1-80. | |
| C.6 | Softback pocket notebook. | June [?1938] - December 1938 |
| | Possibly used, in part, at the Woods Hole Marine Laboratory before Hodgkin returned to Cambridge in the summer of 1938. | |

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| C.7 | <p>Spiral bound hardback notebook.</p> <p>Used at Trinity College Cambridge and, during the summer, at the Marine Biological Association, Plymouth.</p> <p><i>Re</i> experiments on squid nerve fibres, including early work at Plymouth.</p> <p>Paginated 1-11. Most of the notebook is unpaginated.</p> | <p>February -
August 1939</p> |
| C.8 | <p>Softback notebook.</p> <p>Includes notes <i>re</i> experiments on lobster nerve. A few brief notes only are dated 1945.</p> <p>Some pages are in a hand other than Hodgkin's.</p> <p>Paginated 1-68.</p> | <p>May - June
1939, 1945</p> |
| C.9 | <p>Softback notebook.</p> <p>Includes notes <i>re</i> experiments on lobster nerve. A few additional notes only are dated 1945 (June-August).</p> <p>Paginated 1-7. Most pages are unpaginated.</p> | <p>May - June
1939, 1945</p> |
| C.10 | <p>Hardback notebook.</p> <p><i>Re</i> early experiments on squid nerve fibre at Plymouth.</p> <p>Notes on one page summarize the results thus: 'These results suggest that a revision of the membrane theory is required. Instead of the simple picture of membrane breakdown of a potential we must suppose that the membrane changes in such a way that the resting potential is reversed during activity.'</p> <p>A few additional notes only are dated 1940.</p> <p>Paginated 1-39.</p> | <p>August 1939,
1940</p> |
| C.11-C.12 | <p>These two notebooks were found to be stuck together with adhesive and could not be physically separated. They are described below as two separate items.</p> | <p>1939, 1946</p> |

Research

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| C.11 | Softback notebook.

Rough notes <i>re</i> early experiments on squid at Plymouth.

Paginated 1-7. Most pages are unpaginated. | August 1939 |
| C.12 | Softback pocket notebook. | 1946 |
| C.13 | Hardback notebook.

Includes notes <i>re</i> experiments on crab nerve fibres with regard to the action of potassium.

Paginated 1-166. | August 1945
- May 1946 |
| C.14 | Softback pocket notebook.

Rough notes. | November
[?1945] -
1946 |
| C.15 | Softback pocket notebook.

Rough notes. | December
[?1945] -
1946 |
| C.16 | Hardback notebook.

Some notes are in a hand other than Hodgkin's. | May - July
1946 |
| C.17 | Hardback notebook.

Included also is an envelope, intercalated, inscribed 'Sodium experiments Jan 1947 - tidy notebook'. See C.18 - the corresponding 'rough notebook'.

Paginated 1-126. | May 1946 -
May 1947 |
| C.18 | Hardback notebook.

Includes notes on early sodium experiments. | July 1946 -
1947 |

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Included also is an envelope, intercalated, inscribed 'Sodium experiments Jan 1947 - Rough notebook. See Tidy note book [C.17]'.

Some notes are in a hand other than Hodgkin's.

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| C.19 | Hardback notebook inscribed 'Tidy notebook May 20 1947 - 10 Aug 1948' on cover.

Inside front cover is an envelope inscribed 'Sodium experiments May 20 1947 - '. | May - August
1947 |
| C.20 | Hardback notebook.

Near the front is an envelope inscribed 'Sodium experiments July 4 1947. Rough notebook'.

Paginated 1-95. | July-
September
1947 |
| C.21 | Softback pocket notebook.

Rough notes, many in hands other than Hodgkin's. | September
1947 -
August 1948 |
| C.22 | Hardback pocket notebook.

Rough notes. A few brief notes only are dated 1949. | August -
September
1948, August
1949 |
| C.23 | Hardback notebook.

<i>Re</i> experiments on [? squid] axons.

Most of the pages are unused. | August -
November
1948 |
| C.24 | Spiral bound softback notebook.

The name 'W.L. Nastuk' is inscribed at the top of the first page, above the heading 'Determination of cathode resistance'. Most of the notes are in the same hand.

Includes notes <i>re</i> the action of sodium on frog <i>sartorius</i> nerve fibre. | September -
December
1948 |

Research

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| C.25 | Hardback notebook. | October 1948 |
| | Inscribed 'Sartorius Muscle 1948. Duplicate of W.L.N. [?W.L. Nastak] 's notebook'. | |
| | Most of the pages are unused. | |
| C.26 | Hardback notebook. | October - November 1948 |
| | <i>Re</i> experiments on frog <i>sartorius</i> nerve fibre. | |
| | Notes are in the same hand as those in C.24. | |
| | Most of the pages are unused. | |
| C.27-C.28 | These two notebooks were found stuck together by adhesive and could not be separated. | 1948-1949 |
| C.27 | Small softback notebook. | December 1948 - July 1949 |
| | Included are references to experiments using the 'voltage clamp'. | |
| | The notes are in hands other than Hodgkin's. | |
| C.28 | Exercise book. | 23-28 July 1949 |
| | <i>Re</i> experiments on squid nerve fibre, with reference to the 'voltage clamp'. | |
| | The notes are in hands other than Hodgkin's. | |
| C.29 | Exercise book. | July-August 1949 |
| | This appears to be a continuation of C.28. | |
| | The notes are in hands other than Hodgkin's. | |
| C.30 | Hardback notebook. | August 1949 |
| | This appears to be a continuation of C.29. | |
| | The notes are in hands other than Hodgkin's. | |

Research

C.31	Hardback notebook. Most notes in a hand other than Hodgkin's.	September 1949 - October 1950
C.32-C.34	'Notebooks 1939-1949', contents of a box so inscribed.	1939-1949
C.32	Exercise book. Rough notes.	1939-1949
C.33	Hardback pocket notebook. Some notes in a hand other than Hodgkin's. Paginated 81-114.	1939-1949
C.34	Large exercise book. Some notes in a hand other than Hodgkin's. Most of the pages are unused.	1939-1949
C.35	Hardback notebook. Includes notes <i>re</i> experiments on cuttlefish nerve fibre.	October- December 1950
C.36	Hardback notebook. Included are notes <i>re</i> experiments on cuttlefish nerve fibre. Paginated 1-65.	October 1951 - May 1952
C.37	Large hardback notebook. <i>Re</i> experiments on squid and cuttlefish nerve fibres.	September 1952 - February 1954

Research

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| C.38 | Softback pocket notebook.
<i>Re</i> experiments on squid nerve fibres. | September
1952 |
| C.39 | Large hardback notebook.
<i>Re</i> experiments on squid nerve fibres. | July 1953 -
January 1954 |
| C.40 | Large hardback notebook.
<i>Re</i> experiments on squid nerve fibres.

Some notes are in a hand other than Hodgkin's. | August-
November
1954 |
| C.41 | Large hardback notebook.
<i>Re</i> experiments on squid nerve fibres. | October 1954
- February
1955 |
| C.42 | Large hardback notebook.
<i>Re</i> experiments on squid nerve fibres. | October 1954 |
| C.43 | Large hardback notebook.
<i>Re</i> experiments on squid nerve fibres.

At the back are loose notes dated September 1954,
possibly taken from another notebook.

Some notes in a hand other than Hodgkin's.

Paginated 1-212. | May-
December
1955 |
| C.44 | Large hardback notebook.

Inscribed 'Muscle I. 1955-1956. Hodgkin & Horowicz'
inside front cover. Included are notes <i>re</i> experiments on
frog muscle.

Some notes in a hand other than Hodgkin's. | October 1955
- May 1956 |

Research

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| C.45 | Large hardback notebook.

Inscribed 'Muscle 2. 1956. Hodgkin & Horowicz' inside front cover.

Some notes are in a hand other than Hodgkin's. | May-
December
1956 |
| C.46 | Large hardback notebook.

Inscribed 'Muscle 3. 1956-7. Hodgkin & Horowicz' inside front cover.

Some notes are in a hand other than Hodgkin's. | October 1956
- March 1957 |
| C.47 | Large hardback notebook.

Inscribed 'Muscle 4 ([?Tracer]) 1957. H. Horowicz' inside front cover. Included are notes <i>re</i> experiments on frog muscle.

Some notes are in a hand other than Hodgkin's. | March-
October 1957 |
| C.48 | Large hardback notebook.

Inscribed 'Muscle 5 (some [?Tracer]) 1957. H. Horowicz' inside front cover.

Some notes are in a hand other than Hodgkin's. | October-
December
1957 |
| C.49 | Large hardback notebook.

Inscribed '1958 Hodgkin, Caldwell, Shaw. Arg P & ATP injection' on cover. Inscribed 'Added 1987. Exp Sept 1958 - Jan 12 1959. Some notes added by [?RDK]' inside cover. <i>Re</i> experiments on squid.

Most notes are in hands other than Hodgkin's. | September
1958 -
January 1959 |
| C.50 | Hardback notebook.

Inscribed '1959 Caldwell Hodgkin Keynes Shaw p ³² etc squid' on spine.

A few intercalated pages are dated October 1960. | December
1958 -
December
1959 |

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| C.51 | Large hardback notebook.

Inscribed '1959-1961. Tracer & perfusion I' inside front cover.

Most notes are in hands other than Hodgkin's.

Paginated 1-202. | November
1959 -
January 1961 |
| C.52 | Large hardback notebook.

Inscribed '1960-64. Summary of first perfusion exp on squid TIS, PFB (& ALH). Also single muscle fibre exp with Luttgau. Also ?exp with Conrad Martin on C ¹⁴ chlorine in squid?' inside front cover.

The notes appear to relate to experiments in 1960 and 1964 only.

Most notes are in hands other than Hodgkin's.

Paginated 1-37. Most pages are unpaginated. | October
1960-
[c.November
1964] |
| C.53 | Large hardback notebook.

Inscribed '1961. Perfusion 2' inside front cover.

Most notes are in a hand other than Hodgkin's.

Paginated 1-171. | September-
December
1961 |
| C.54 | Spiral bound softback notebook.

First page headed 'Woods Hole 1962'.

Notes <i>re</i> early experiments on vision. | June-July
1962 |
| C.55 | Large hardback notebook.

Inscribed 'Perfusion 3' inside cover. <i>Re</i> experiments on squid.

Most notes are in hands other than Hodgkin's.

Paginated 1-207. | October-
November
1962 |

C.56	<p>Large hardback notebook.</p> <p>Inscribed 'Perfusion 4. 1962-3' inside front cover. <i>Re</i> experiments on squid.</p> <p>Many notes are in hands other than Hodgkin's.</p> <p>Paginated 1-63.</p>	<p>December 1962 - January 1963</p>
C.57	<p>Large hardback notebook.</p> <p><i>Re</i> experiments on squid.</p> <p>Some notes are in a hand other than Hodgkin's.</p> <p>Paginated 1-92.</p>	<p>November 1964 - January 1965</p>
C.58	<p>Large hardback notebook.</p> <p>Included are notes <i>re</i> experiments on frog <i>sartorius</i>.</p> <p>Paginated 1-99.</p>	<p>November 1965 - October 1966</p>
C.59	<p>Large hardback notebook.</p> <p>Inscribed 'M.P. Blaustein & A.L. Hodgkin' inside front cover. First page headed 'Ion Fluxes in <i>Ioligo forbesi</i>. Book III'. <i>Re</i> experiments on squid.</p> <p>Some notes are in a hand other than Hodgkin's.</p> <p>Paginated 1-119.</p>	<p>November 1966 - January 1967</p>
C.60	<p>Large hardback notebook.</p> <p>Inscribed 'Squid calcium studies 1967' on spine.</p> <p>Some notes are in a hand other than Hodgkin's.</p> <p>Paginated 1-200.</p>	<p>July 1967 - March 1968</p>

Research

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| C.61 | Large hardback notebook.

Inscribed 'Turtle retina I' on the cover and 'Baylor & H. 1971' on the spine. Included at the front are a few notes dated 1967.

Most notes are in a hand other than Hodgkin's.

Paginated 1-208. | August-
December
1971 |
| C.62 | Large hardback notebook.

Inscribed 'Turtle retina II. Dec 1971 - May 1972' on cover. Inscribed 'B & H' on spine.

Most notes are in hands other than Hodgkin's.

Paginated 1-212. | December
1971 - May
1972 |
| C.63-C.64 | Contents of a file inscribed 'Copy of PBD lab book Nov 16 - July 4 1977'.

Loose pages of photocopied notes in a hand other than Hodgkin's.

<i>Re</i> experiments on vision using turtle retinas.

2 folders. | November
1976 - July
1977 |
| C.65 | Large hardback notebook.

Inscribed 'A.L. Hodgkin & P. McNaughton. Note book 3 of PD, PMcN, ALH series'.

<i>Re</i> experiments on vision using turtle retinas.

Most notes are in hands other than Hodgkin's.

Paginated 1-72. | August 1977
- May 1978 |
| C.66 | Large hardback notebook.

Inscribed 'ALH, PMcN & K W Y [K-W Yau]'. <i>Re</i> experiments on vision. | May 1980 -
July 1982 |

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Research

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Most notes are in hands other than Hodgkin's.

Paginated 1-83.

C.67

Large hardback notebook.

October 1982
- October
1986

Inscribed 'Hodgkin McNaughton & Nunn. Experiments
Oct 1982-'. *Re* experiments on vision using toads.

Notes are in a hand other than Hodgkin's.

Paginated 1-188.

C.68-C.105

Theoretical and general notebooks

1940-1987

These notebooks chiefly contain theoretical notes, usually with reference to published work by others, as background to Hodgkin's experimental work. Intercalated notes etc are found.

In Hodgkin's hand unless otherwise stated.

Sometimes the covering dates are inscribed on the cover or inside.

C.68

Hardback notebook.

February -
April 1940

Inscribed 'Radar notebook kept at St Athan Feb-April 1940 (Added July 1981)' inside front cover.

Re electro-magnetic radiation.

Hodgkin worked on airborne radar during World War Two. He was stationed at St Athans, South Wales, November 1939-May 1940.

C.69

Exercise book.

c.1941-1949

Re nerve axons.

Research

C.70	Large hardback notebook. Inscribed 'Nerve etc 1950 - ' The notes appear to be chiefly on muscle.	c.1950-1967
C.71-C.85	Contents of five ring binders. These binders were identical in appearance and were probably all written 1950-1953 and c.1952. Only some could be dated by inscriptions.	1950-1953
C.71-C.74	Contents of a ring binder. Inscribed '1950 - ' inside front cover. <i>Re</i> nerve, muscle and other physiological topics. 4 folders.	1950-c.1952
C.75-C.77	Contents of a ring binder. Inscribed '1953' and 'end ? 1952' inside cover. <i>Re</i> general physiology. 3 folders.	1952-1953
C.78-C.80	Contents of an unmarked ring binder. <i>Re</i> general physiology.	c.1952
C.81-C.82	Contents of an unmarked ring binder. <i>Re</i> nerve action and general physiology. 2 folders.	c.1952
C.83-C.85	Contents of an unmarked ring binder. <i>Re</i> nerve and muscle. 3 folders.	c.1952

Research

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| C.86 | Small softback notebook.

<i>Re</i> nerve physiology. | c.1952 |
| C.87 | Large hardback notebook.

Chiefly <i>re</i> nerve and muscle.

Included is a letter from [?Reinhard] [?], 1957. | 1954-c.1957 |
| C.88 | Large hardback notebook.

Chiefly <i>re</i> muscle and nerves.

Included at the beginning are letters from various scientists relating to work on nerve axons and vision. | c.1956-1960 |
| C.89 | Large hardback notebook.

Inscribed 'Theory 1959-1969' on cover and 'Theory. Early Na/Ca Exchange Theory' on spine.

A note in Hodgkin's hand relating to an experiment on squid at Plymouth is written inside the front cover.

Paginated 1-13. Some pages are unpaginated. | 1959-1969 |
| C.90 | Large hardback notebook.

Inscribed 'Physics I 1960-1965' on cover.

<i>Re</i> particle physics.

Paginated 1-71. | 1960-1965 |
| C.91 | Large hardback notebook.

<i>Re</i> muscle, nerves, vision and other topics. One page is headed 'For Sherrington Lectures'. | 1961 |

Research

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| C.92 | Large hardback notebook.

<i>Re</i> nerve, muscle and general physiology.

Paginated 1-187. | c.1963-
c.1971 |
| C.93 | Softback ring bound notebook.

Chiefly <i>re</i> vision. | September
1971 - May
1972 |
| C.94 | Ring bound softback notebook.

Inscribed 'Jan 1973 (perhaps June 1972) - Sept 1973'.
<i>Re</i> vision and other topics. | [?June 1972]
- September
1973 |
| C.95 | Hardback notebook.

<i>Re</i> vision, nerve and other topics.

Paginated 1-159. | c.[September
1973 -
September
1974] |
| C.96 | Hardback notebook.

Chiefly <i>re</i> vision.

Paginated 1-116. | 1973 - 1974 |
| C.97 | Large hardback notebook.

Chiefly <i>re</i> vision. | December
1974 -
September
1975 |
| C.98 | Large hardback notebook.

Included are notes on following: the history of science in the USA under a heading 'Royal Society of Arts 12.xi.75'; the Royal Society Anniversary Address, 1975; vision.

Paginated 1-122. | September
1975 - March
1976 |

Research

C.99	Large hardback notebook. Chiefly <i>re</i> vision. Paginated 1-150.	March 1976 - July 1977
C.100	Large hardback notebook. Notes <i>re</i> Hodgkin's Royal Society Biographical Memoir of Lord Adrian. Also notes <i>re</i> vision and other topics. Paginated 1-181.	August 1977 - April 1979
C.101	Hardback notebook. <i>Re</i> vision and other topics. Inscribed 'April 1979- ' Paginated 1-157.	c. April 1979
C.102	Large hardback notebook. <i>Re</i> vision and nerve. Paginated 1-133.	January 1980 - January 1982
C.103	Large hardback notebook. Chiefly <i>re</i> vision. Paginated 1-155.	January 1982 - February 1985
C.104	Large hardback notebook. Chiefly <i>re</i> vision and squid nerve fibres. Paginated 1-163.	February 1985 - December 1986
C.105	Large hardback notebook. <i>Re</i> vision. Paginated 1-161.	December 1986 - 1987

Research

C.106-C.1127	FILES FOR EXPERIMENTAL AND THEORETICAL WORK	1935-1991, nd
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The large number of files relating to experiments on nerve, muscle and vision from various periods has necessitated their division into the groups listed below. 'Early research' includes material up to 1939. Material from inscribed box files post-1939 and other pre-1952 files (1952 being the year of the publication of Hodgkin and Huxley's five papers on the nerve impulse) has been placed in 'Various topics'. 'Later experiments and theory (chronological series)' is the largest group and largely comprises papers of similar format dating from 1960.

C.106-C.156 Early Research

C.157-C.308 Various topics

C.308A-C.1120 Later experiments and theory
(chronological series)

C.1121-C.1127 'Circuits'

C.106-C.156	Early research	1935-1939
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C.106-C.128	'Electrical transmission 1936-7', contents of a box file so inscribed.	1935-c.1938
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Papers relating to Hodgkin's experiments, begun in his final undergraduate year (1935), on blocking conduction in frog's nerve by cooling.

Files containing manuscript data and notes *re* experimental results and photographic data (contained in inscribed envelopes).

Inscriptions on files are given below.

C.106-C.111	'Pi [Greek letter] effect'.	November 1935 - June 1936
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The material in C.106 was the contents of a separate internal file inscribed 'Special relations of pi and theta effects'. A number of dates are also inscribed on this file: the earliest being '2.12.35'; the latest being '20.3.36'.

6 folders.

Research

C.112	'Apparatus'.	February- May 1936
C.113-C.114	'Time relations'. 2 folders.	June-July 1936
C.115-C.118	'Spatial distrib. Art[ificial] E, Nat[ural] E. Changes in thresh[hold]. Long vac. Michaelmas'. 4 folders.	July - December 1936
C.119-C.122	'Time relations - cold block. Michaelmas 1936'. 4 folders.	October - November 1936
C.123	'Time curves pressure block'.	November - December 1936
C.124	'Artificial and natural [?electrotonus]. Potential and change in threshold. Mostly December 1936.' Chiefly December 1936.	March - December 1936
C.125	'Calibration. Linearity of recording system. May 28, 30'.	May [1936 or 1937]
C.126	Loose papers. Experimental results etc, in the same format as those in C.106-C.125.	December 1936
C.127-C.128	Miscellaneous papers. <i>Re</i> experimental results. Chiefly photographic material. 2 folders.	c.1937-1938

Research

C.129-C.155	<p>'Local response data N.Y. 1937-1938', contents of a box file so inscribed.</p> <p>Files consisting almost entirely of manuscript graphs of experimental results. Accompanying manuscript notes are occasionally found. Dates are often found on the graphs.</p> <p>Inscriptions on files are given below.</p>	1937-1938
C.129	<p>'Some Cambridge experiments'.</p> <p>A further inscription 'Archibald Roberts' is inside the file cover.</p>	August 1937
C.130	<p>'Callinect[u]s. October 21 and 22. Development of LR. Cf LR & AP & propagated AP'.</p>	October 1937
C.131	<p>Untitled file.</p>	October 1937
C.132	<p>'October 30th'.</p> <p>A further inscription 'Ligie Souffront' is inside the file cover.</p>	October 1937
C.133	<p>'Nov 3. Development of LR. Supernormal phase'.</p>	November 1937
C.134	<p>'Nov 9th 1937'.</p>	November 1937
C.135	<p>'November 13th and 14th. Development of LR. Polarisability during [?spike]. Nov 14th. Controls. Shock artefacts (electrode polarisation on dead nerve)'.</p>	November 1937
C.136	<p>'November 16th 1937. Development of LR in supernormal phase and refractory period'.</p>	November 1937

Research

C.137	'Nov 26th. LR development A B. Extent of spread of LR'.	November 1937
C.138	'Dec 6th. Polarisability during [?spike]'.	December 1937
C.139	'Supernormal phase Dec 7th'.	December 1937
C.140	'December 10th 1937'.	December 1937
C.141	'[?] Refractory P'.	December 1937
C.142	'December 10th. Development of LR'.	December 1937
C.143	'Relative amplitudes data'.	December 1937 - January 1938
C.144	'Spatial spread'.	December 1937 - December 1938
C.145	'Calibrations'.	January 1938
C.146	'Jan 28 1938. LR & Excitability'.	January 1938
C.147	'Feb 2 1938. Refractory period of local response. Nerve treated with 10cc 1.15gm% KCl per 100cc sea water'.	February 1938

Research

C.148	'Polarization potential. Effect of alcohol. Feb 15th'.	February 1938
C.149	'Short interpolar distance experiment'.	1937 or 1938
C.150	Untitled file.	1937 or 1938
C.151	Untitled file.	1937 or 1938
C.152	'Excitability curves'. Printed graphs.	1937 or 1938
C.153	'Impedance change. LR has Ref: P'. Graphs and photographic data.	1937 or 1938
C.154	'Old photographs'. Photographs, chiefly of nerve axons.	1938
C.155	Loose papers, chiefly manuscript graphs.	1937 or 1938
C.156	'Early data on Carcinus May 1939'. Manuscript graphs with calculations and notes.	1939

Research

C.157-C.308	Various topics	1942-1991, nd
	<p>Contents of a series of inscribed box files and other files. A small amount of material relating to Hodgkin's work during World War Two is also included at C.157.</p> <p>The contents of the box files are further constituent files (and some loose material), most with titles of topics or dates of experiments inscribed on the cover.</p>	
C.157	<p>Papers relating to Hodgkin's work during World War Two.</p> <p>Copies of official documents <i>re</i> Airborne Interception radar.</p> <p>See C.1121-C.1127 for further papers relating to wartime work.</p>	1942-1943
C.158-C.159	'Miscellaneous calculations', contents of a file so inscribed.	c.1945
C.158	Letters to Hodgkin from Andrew Huxley <i>re</i> experiments on nerve and mathematical solutions; personal matters are briefly mentioned.	March 1945
C.159	Theoretical notes and calculations, in Hodgkin's hand, concerning experiments on nerve.	c.1945
C.160	<p>'Chemical data', contents of a file so inscribed.</p> <p>Chiefly manuscript data <i>re</i> experiments on frog nerve.</p>	c.1945
C.160A	<p>'Electrical measurements', contents of a file so inscribed.</p> <p>Manuscript experimental data.</p>	1946
C.161-C.163	<p>Experiments on the electrical activity of muscle.</p> <p>Manuscript experimental data, some rough.</p>	December 1948

Research

C.161	'Sodium experiments', contents of a file so inscribed.	December 1948
C.162-C.163	'Muscle 1948. Sodium experiments', contents of a file so inscribed. 2 folders.	December 1948
C.164	Contents of a file inscribed '18.8.48'. Experimental data. In A.F. Huxley's hand.	August 1948
C.165	Contents of a file inscribed 'W.L.N. Measuring grids Oct-Nov 49 [sic]' Manuscript graphs in a hand other than Hodgkin's. Dates (1948) are inscribed on the papers.	October- November 1948
C.166	'Cathode follower oscillations 1948', contents of a file so inscribed. Brief manuscript theoretical notes.	1948
C.167	'Calculations about microelectrodes 1948-1949', contents of a file so inscribed. Manuscript theoretical notes entitled as above; later correspondence on the same subject, chiefly with J.C. Eccles, 1955, 1962.	1948-1949, 1955, 1962
C.168-C.182	'Voltage clamp (1). Summary expts. Notes on numerical methods and calculations', contents of a box file so inscribed. The titles of the files are reproduced below. Dates sometimes appear on papers within the files.	1949-c.1951

Research

C.168	<p>'Axon II'.</p> <p>Notes on experiments and theory, with graphs.</p> <p>In A.F. Huxley's hand.</p>	June 1949 - May 1950
C.169-C.171	<p>'24.7.49 Axon II'.</p> <p>Experimental data, notes and graphs.</p> <p>In A.F. Huxley's hand.</p> <p>3 folders.</p>	July 1949
C.172-C.174	<p>'24.7.49 Axon I'.</p> <p>Experimental data, notes and graphs.</p> <p>In A.F. Huxley's hand.</p> <p>3 folders.</p>	July 1949
C.175-C.176	<p>'Summary'.</p> <p>Manuscript experimental data and notes. The first paper is headed 'June-August 1949. Squid - Summary of experiments'.</p> <p>2 folders.</p>	June-August 1949
C.177	<p>Loose pages of experimental data and notes.</p> <p>This material appears to be related to the experiments covered in C.168-C.174.</p> <p>Chiefly in Hodgkin's hand.</p>	July 1949
C.178-C.182	<p>'Currents carried by sodium and potassium ions through the membrane of the giant axon of Loligo', a paper by Hodgkin and A.F. Huxley.</p> <p>Contents of a file inscribed 'Paper 2 draft'.</p>	[?1949 or 1950]

Research

C.178-C.179	Two 35pp typescript drafts with revisions in A.F. Huxley's hand. 2 folders.	[?1949 or 1950]
C.180	Manuscript drafts of figure legends etc and data, with one page of another typescript draft of the paper. In A.F. Huxley's hand.	[?1949 or 1950]
C.181	Contents of an unmarked file. Graphs and notes, mostly manuscript.	c.1950
C.182	'Membrane current in nerve'. Notes and experimental data etc, mostly manuscript. Chiefly in Hodgkin's hand.	c.1951
C.183-C.194	'Voltage clamp (2). Summary expts. Notes on numerical methods & calculations', contents of a box file so inscribed. The material consists of manuscript experimental data. It is chiefly in A.F. Huxley's hand, a small amount being in Hodgkin's. Titles of constituent files are reproduced below. This material is closely related to that in C.168-C.182.	July-August 1949
C.183-C.184	'22.7.49. Axon I'. 2 folders.	July 1949
C.185-C.186	'28.7.49'. 2 folders.	July 1949
C.187	'28.7.49'.	July 1949

Research

C.188	'31.7.49'.	July 1949
C.189	'3.8.49 Axon 2'.	August 1949
C.190	'3.8.49'.	August 1949
C.191	'5.8.49 Axon I'.	August 1949
C.192	'12.8.49' Axon 2'.	August 1949
C.193	'12.8.49'.	August 1949
C.194	Loose manuscript graphs.	July or August 1949
C.195-C.209	'Voltage clamp 1949 exp. Capacity 9k 24.7.49', contents of a box file so inscribed. The material consists of manuscript experimental data and analytical notes. Titles of constituent files are given below.	1949-1951
C.195	'Membrane capacities'.	July 1949
C.196	'20.7.49'.	July 1949
	In A.F. Huxley's hand.	
C.197-C.202	'Gk'.	July 1949
	6 folders.	

Research

C.203-C.205	'24.7.49'. 3 folders.	July 1949
C.206-C.207	'Inactivation'. 2 folders.	August 1949
C.208	Loose pages of manuscript data. Included are the following headings: 'Restoration time constants' and 'Steady state Gk summary'.	July 1949
C.209	'Squid 1949. Misc analysis 1951'.	July 1949, 1951
C.210-C.223	'Theory. Voltage clamp - speculative theory. 1959 Misc. 1960 - Rectif'n. More recent theory - carriers etc. Spreading depression', contents of a box file so inscribed. Titles of files are given below.	1949-1962, nd
C.210-C.211	'Theory'. Theoretical notes and graphs <i>re</i> the squid axon experiments of 1949. 2 folders.	July 1949- [c.June]1950
C.212	'Spreading depression theory' 1959'. Manuscript theoretical notes; correspondence (1960-1962) between Hodgkin and various foreign scientists <i>re</i> his paper on spreading depression.	1959-1962

Research

C.213-C.214	<p>'Delayed rectification theory'.</p> <p>Manuscript notes and data; brief correspondence between Hodgkin and K.S. Cole (1960) <i>re</i> a paper by Cole.</p> <p>2 folders.</p>	c.1960
C.215	<p>'Theory. Carriers [?] choline. Changes in Na i and Li during train of impulses'.</p> <p>Manuscript notes etc.</p>	nd
C.216	<p>'A Theoretical Model of Neurons Transmission', a paper by Hodgkin and A.F. Huxley.</p> <p>17pp manuscript draft headed 'rough draft'; copy of typescript revised version.</p>	nd
C.217	<p>'Fourier and Laplace notes'.</p> <p>Brief manuscript notes.</p>	nd
C.218	<p>Manuscript notes entitled 'Electrical interactions in a Ommatidium retinula cell: linear region'.</p>	nd
C.219-C.223	<p>Loose manuscript notes etc.</p> <p>Headings include 'Capacity of relatively thick membrane', 'Action potential theory - sodium current', 'Oscillatory behaviour'.</p> <p>Included are letters by Hodgkin at C.219 (1954) and C.222 (draft).</p> <p>5 folders.</p>	1954, nd
C.224-C.241	<p>'Muscle. Hodgkin & Horowicz 1961. Contractures: transients. Unpublished osmotic expts', contents of a box file so entitled.</p>	1955-c.1960

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Research

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Titles of files are given below.

See D.193-D.207A for publications material relating to these experiments.

C.224-C.227	<p>'Muscle 1955-6. Twitches & tension'.</p> <p>Manuscript experimental data.</p> <p>C.227 consists of the contents of an internal file inscribed 'Stockholm Misc. muscle' and includes photographic data.</p> <p>4 folders.</p>	<p>November 1955-May 1956</p>
C.228-C.230	<p>'Single muscle fibres. Mainly transients'.</p> <p>Manuscript experimental data.</p> <p>3 folders.</p>	<p>March 1956 - November 1957</p>
C.231-C.233	<p>'Osmotic experiments', contents of 2 files so entitled.</p>	<p>1956-1957</p>
C.231	<p>Contents of first file.</p> <p>Manuscript experimental data etc.</p> <p>Some pages are in an unidentified hand.</p>	<p>October- November 1956</p>
C.232-C.233	<p>Contents of second file.</p> <p>Manuscript data, notes and part of a draft.</p> <p>2 folders.</p>	<p>1957</p>
C.234	<p>'Muscle Oct-Nov 1957. Mainly contractions'.</p>	<p>October- November 1957</p>
C.235-C.236	<p>'Transients'.</p>	<p>c.1960</p>

Research

C.235	<p>'The effect of sudden changes in ionic composition on the membrane potential of single muscle fibres'.</p> <p>Manuscript draft (incomplete) so entitled.</p>	c.1960
C.236	<p>Further manuscript draft pages, data and notes relating to the draft in C.231 or, possibly, to an earlier paper.</p>	c.1960
C.237	<p>'Hodgkin & Horowicz - K contractures'.</p> <p>Correspondence between Hodgkin and P. Horowicz chiefly <i>re</i> their paper on 'potassium contractures' and related work.</p>	1960
C.238	<p>'Hypertonic solutions'.</p> <p>Untitled manuscript draft of a paper (possibly incomplete); manuscript notes.</p>	c.1960
C.239	<p>'Chloride contractures'.</p> <p>Parts of a manuscript draft, or drafts, of a paper.</p>	c.1960
C.240	<p>'Ca on contractures'.</p> <p>A few manuscript pages of a draft paper.</p>	c.1960
C.241	<p>Loose pages of manuscript experimental data.</p>	1956
C.242-C.263	<p>'Limulus 1962-1964', contents of a box file so inscribed.</p> <p>The following papers relate to experiments on vision using the <i>limulus</i> crab by Hodgkin and M.G.F. Fuortes. The work was carried out at the Marine Biological Laboratory, Woods Hole, Massachusetts, USA during the summer of 1962 and was the beginning of Hodgkin's interest in vision.</p>	1957-1964

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Research

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The greater part of the material consists of manuscript experimental data and notes. Correspondence is described where found.

Chiefly in Hodgkin's hand.

Titles of constituent files are given below.

See D.239-D.255 for publications material relating to these experiments.

C.242	'Fuortes. Amer J. Ophthalm. Exp's Nov. 1 1957. Temp about 20 degrees C. In Bethesda'.	November 1957
C.243	'July 20 1959'.	July 1959
C.244	'July 28 1960'.	July 1960
C.245	'Aug. 1 1960'.	August 1960
C.246	'19 June 1962'.	June 1962
C.247	'June 20 1962'.	June 1962
C.248	'June 23'.	June 1962
C.249	'July 4 1962. Unit 2'.	July 1962
C.250	'July 10 1962'.	July 1962
C.251	'July 12 1962. Light adaptation run'.	July 1962
C.252	'July 24, 25 1962'.	July 1962

Research

C.253	'July 26 1962'.	July 1962
C.254	'Aug 2 1962. Unit 1. p.512-514'.	August 1962
C.255	'Aug 3 1962'.	August 1962
C.256	'Mike Fuortes. August 14 1962'.	August 1962
C.257	'Aug 17 1962'.	August 1962
C.258	'August 26 1962'. Included is a letter (1964) to Hodgkin from Fuortes concerning the final draft of a paper.	August 1962, 1964
C.259-C.260	Contents of an unmarked envelope. Letters, with data, to Hodgkin from M.G.F. Fuortes <i>re</i> experiments and the preparation of a related paper. 2 folders.	1962-1963
C.261	'1963 August. Limulus preliminary look at records'.	August 1963
C.262	Contents of an unmarked envelope. Letter from Fuortes with enclosed figures.	c.1963
C.263	Manuscript graph found loose.	November 1957

Research

C.264-C.267	'Squid . Data. Ca - Na. Ca - Cn. 1966-1968', contents of a file so inscribed. Titles of constituent files are given below.	1966-c.1968
C.264-C.265	'Ca Efflux expts Plymouth'. Manuscript experimental data and graphs. 2 folders.	1966-1967
C.266	'Ca - Na. Baker et al. Tables'. Manuscript drafts of data tables for a paper.	c.1968
C.267	Loose material. Pages from a manuscript draft and notes; part of a typescript draft and figures relating to a paper, possibly the one mentioned in C.266.	c.1968
C.268-C.283	'Shroedinger [sic] Eqn. Notes 1973-5 (some 1967-8)', contents of a box file so inscribed. Manuscript theoretical notes. Titles of constituent files are given below.	1965-1991, nd
C.268-C.270	'E.M. waves theory. 1965-7'. 3 folders.	1965-1967
C.271	'1972'.	1972
C.272-C.273	'Shroedinger [sic] 1973, 75'. 2 folders.	1973-1975
C.274	'Notes on spin and other reading. ?1973'.	?1973

Research

C.275-C.276	'EM waves. Gravity. Misc & modified Schroedinger eqn. 1975. Notes.'	1975
	2 folders.	
C.277	'Compton scattering. 2 dimensions. 1975'.	1975
C.278-C.279	'Rough c.1975. First two sets look ?interesting. 1986'.	c.1975, [?1986]
	2 folders.	
C.280	'Maths. Vectors in spherical polars and notes on EM waves, density of dipoles etc. Nov. 1976'.	November 1976
C.281	' "Parabolic" oscillations. Schroedinger equation with $v(x) = k[x]$ '.	Nd
C.282	'Reading. Mott & Massey, Dicke & Gittke, Jordan'.	Nd
C.283	Loose manuscript graph.	1991
C.284-C.292	'Retina theory. Misc theory. 1974-1979 and 1980-81, 1982', contents of a box file so inscribed.	c.1974-1982
	Manuscript theoretical notes. Titles of constituent files are given below.	
C.284-C.285	'Misc. theory. $S_f = S_s \times t_i$. Calculation of response area relation from effect of displacing small spot spread in H. cell network or coupled cones. And theory added 1977-8'.	c.1974-1978
	2 folders.	

Research

C.286-C.287	'Maths - turtle'. 2 folders.	c.1974-1979
C.288	'Independent activation & desensitization. May 1979. & circuit theory'.	1979-1980
C.289	'2 Dimensional array with lateral inhibition and electrical coupling'.	August 1979
C.290	'Cable maths applied to rods'.	c.1979-1982
C.291	'Maths theory'.	c.1979-1982
C.292	Loose manuscript notes. Some notes in a hand other than Hodgkin's.	c.1979-1982
C.292-C.303	'Muscle', contents of a box file so inscribed. All the material relates to experiments on vision. Photocopies of manuscript notes on experiments in a number of different hands. Only later annotations are in Hodgkin's hand.	1974-1985
C.293-C.294	Contents of a ring binder labelled 'PBD-ALH Retina Book I. Nov. '75 to Jan '77'. Annotations in Hodgkin's hand. 2 folders.	1975-1977

Research

C.295-C.298	<p>Contents of a ring binder inscribed 'Lamb-Simon. Retina Book II. Oct '74 to June '76'.</p> <p>The papers were also inside a file inscribed 'PBD Retina Bk II Feb. 1977'.</p> <p>4 folders.</p>	1974-1975
C.299-C.300	<p>Contents of a ring binder labelled 'Chelhydra rods etc with PD. AP min. End notebook 1+ notebook 2. Nov. 1975'.</p> <p>In the same hand as C.293-C.294. Annotations in Hodgkin's hand.</p> <p>2 folders.</p>	1976-1977
C.301-C.303	<p>Contents of ring binder labelled 'Summary'.</p> <p>Annotations in Hodgkin's hand.</p> <p>3 folders.</p>	1982-1985
C.304-C.308	<p>'Detwiler, Hodgkin & McNaughton 1980. Mainly theory. Rod - current theory', contents of a box file so inscribed.</p> <p>Manuscript theoretical notes etc. Some of the material appears to relate to a published paper.</p> <p>Titles of constituent files are given below.</p>	c.1980
C.304-C.305	<p>'P.McN. Inductive cable & ALH theory'.</p> <p>Included at C.305 is part of a typescript draft paper.</p> <p>2 folders.</p>	c.1980
C.306	<p>'Appendix'.</p>	c.1980
C.307	<p>'High pass filter'.</p>	c.1980

Research

C.308	'Maths for inductance. re Nature paper'.	c.1980
C.308A-C.1120	Later experiments and theory (chronological series) Much of this material was found organised in a rough chronological sequence. It chiefly consists of experimental data (manuscript and computer-generated), calculations and theoretical notes, many of the papers being similar in format and content. A large proportion of the experiments are on vision.	1960-1988, nd
C.308A-C.308B	'Limulus theory & retina. 1960-65', contents of a file so inscribed. Titles of constituent files as follows:	1960-1965
C.308A	'Latency in Limulus etc'. Manuscript theoretical notes etc; typescript draft entitled 'Problems in the Organization of Rod Vision'.	1960-c.1962
C.308B	'Retinal potential. Theory & draft of theory paper'. Manuscript theoretical notes etc.	c.1962-1963
C.309-C.380	Experiments on muscle, 1965-1967 (chiefly 1966-1967). The following files were found together and relate to experiments on muscle by Hodgkin, R.H. Adrian and W.K. Chandler. Titles of files and their constituent files (where appropriate) are reproduced in the following descriptions. The material consists chiefly of manuscript experimental data, calculations and theoretical notes. A few files appear to relate directly to a published paper or papers. The files covered by C.309-C.359 were labelled in a similar fashion and appeared to form a sequence. Some of the papers are in hands other than Hodgkin's.	1965-1967

Research

C.309-C.310	'Cable Theory and Cole's Theorem. 5.vii.67. Tests of spread of potential and current equation. Simple cable theory. 1965. Theory and analysis of current equation. 5.7.67. Threshold and Cole's Theorem etc'. Titles of constituent files as follows:	1965-1967
C.309	'Muscle. 1965 theory'.	1965
C.310	'5 July 1967. Reel 2'.	July 1967
C.311-C.315	'March 1966. Delayed rectification V(eg)1. ALH some RHA'. Titles of constituent files as follows:	1966
C.311	'15.iii.66'.	March 1966
C.312-C.314	'21, 22, 23 & 24. 3. 66'. 3 folders.	1966
C.315	Loose manuscript graphs etc.	1966
C.316-C.325	'Recently analysed expts'. Titles of constituent files as follows:	c.1966-1969
C.316	'30.vi.66. Inactivation (slow)'.	May-June 1966
C.317	'Muscle 11.v.66'.	May 1966

Research

C.318	'3 August 1966. Gk inactivation'.	August 1966
C.319-C.321	'Nov. 66. Gargouil'. 3 folders.	1966-1969
C.322	'4845 - 1. Miyamoio'.	1966-1969
C.323	'4865 ALH RHA'.	c.1966-1969
C.324	'079'.	c.1966-1969
C.325	'23 March 1967. Inactivation'.	March 1967
C.326-C.327	'May, June, July 1966. Gk Veg(1) Veg(2). August 1966. Time course of slow 9k from tails'. Titles of constituent files as follows:	1966
C.326	'7 July 1966'.	July 1966
C.327	'11 Aug 1966'.	August 1966
C.328	'Gk inactivation ALH. 3 Aug 66 good. 23 March 67 (4 [?beam]). Gna inactivation RHA. June 1966.' One manuscript graph only.	August 1966

C.329-C.335	<p>'WKC & RHA (ALH). WKC Misc figures & tables. RHA complete list of expts. RHA 5.xii.66 5007, 5008 creeps. ALH 19.x.66 & WKC 25.x.66 - creeps. RHA 5.xii.66 5011'.</p> <p>There is a further inscription on the cover: 'Knox Oct-Dec 1966. WKC, RHA & ALH'.</p> <p>Titles of constituent files as follows:</p>	October-December 1966
C.329	'19.x.66. 4986 (20 degrees C) - 4991 (2 degrees C). 5mM-K, SO4. No suc[rose]'.	October 1966
C.330-C.331	<p>'25 Oct 1966. 4993-4994 2.5 - K, SO4 no suc[rose]. 4995-4998 2.5 - K, SO4 suc[rose]'.</p> <p>2 folders.</p>	October 1966
C.332	'1 Nov 1966'.	November 1966
C.333	'5 December 1966. 5007 5008'.	December 1966
C.334-C.335	<p>'5 December 1966. 5011'.</p> <p>2 folders.</p>	December 1966
C.336	'RHA July 1967. Slow changes in Gk. 10k & 10R6 - SO4'.	June-July 1967
C.337	<p>'WKC (Mainly). Analysis of anodal creep. Mainly 1967 exp'ts'.</p> <p>All the contents were found in an internal file inscribed 'WKC. Creep. Differentiating check constants'.</p>	1966-1967

Research

C.338-C.346	'Contraction kinetics. WKC & ALH. 1. SD curves. 136 wide range good. 134 good & others. 2. 144 145 3. Gk and contraction kinetics. 4. Figs for paper. 5. <i>Re</i> [?] curve from 1965. 6. Skeleton of paper. 7. All ALH's photographs Not in order.'	c.1967-1968
	Constituent files listed in the order in which they were found. Their titles are as follows:	
C.338	'Muscle kinetics. Misc sums'.	August 1967
C.339	'Contractions paper. 2 pulse and step experiments'.	August 1967
C.340	'Tables & figs for contraction paper'.	1967
C.341	'Stanfield's exp'ts. S-D curves - muscle. 1967 WKC & ALH'.	1967
C.342	'S-D curves analysis. RHA'.	c.1967
C.343-C.344	'Threshold for delayed rectification & contraction - SO4 solutions'. 2 folders.	c.1967
C.345	'Muscle kinetics'. Data kinetics'.	c.1967
C.346	Loose papers.	1967-1968

Research

C.347-C.355	'Knox Chandler. Figs for paper 3. Summary of 2.5 K ₂ SO ₄ . 19k - SO ₄ '.	c.1967
	Constituent files listed in the order in which they were found. Their titles are as follows:	
C.347	'077'.	c.1967
C.348	'8 Mar 67'.	March 1967
C.349	'049'.	c.1967
C.350	'053'.	c.1967
C.351	'057'.	c.1967
C.352	'084'.	c.1967
C.353-C.354	'Summary of 2.5 KSO ₄ , 1mm spacing'. 2 folders.	c.1967
C.355	'10KSO ₄ '	c.1967
C.356-C.359	'RHA. Constants'. Titles of constituent files as follows:	
C.356-C.357	'WKC. Capacities'. 2 folders.	1967

Research

C.358-C.359	'Constants'. 2 folders.	c.1967
C.360	'11.v.66. Data for foot of MS. Cole's Theorem fibres. Teorell'.	May 1966
C.361-C.363	'17.v.66 - 18.v.66'. 3 folders.	May-July 1966
C.364	'23 June 1966. WKC analysis. Constancy of V(eg)1'.	June 1966
C.365	'28.vi.66 4891 Veg[?]. 29.vi.66 Inactivation RHA'.	June 1966
C.366	'4.viii.66. 8.viii.66. 9.vii.66. Mainly time course of slow gk component from tails'.	August 1966
C.367	'Areas in transients. Creep'.	October 1966
C.368	'123 5.7.67'.	July 1967
C.368A	'121'.	July 1967
C.369	'120'.	July 1967
C.370-C.371	'MS'. 'Voltage clamp experiments in striated muscle fibre', by Hodgkin, R.H. Adrian and W.K. Chandler, 'Journal of general physiology 51 (suppl.), 1968. See D.272-D.274 for related publications material.	c.1967-1968

Research

C.370	28pp manuscript draft of the paper (in Hodgkin's hand), with drafts of figure legends.	c.1967-1968
C.371	Typescript revised version.	c.1967-1968
C.372-C.373	<p>'Knox Chandler Theory. Muscle'.</p> <p>Included is a letter to Hodgkin from Chandler (October 1968) arising from the preparation of a paper on muscle (possibly the one described in C.370-C.371), with theoretical notes by Chandler.</p> <p>2 folders.</p>	1968
C.374	'Adrian & Chandler. Chandler Theory. Creep. Diffusion K in tubules etc'.	c.1967
C.375	<p>'Voltage clamp. Methods. Constants. Sodium'.</p> <p>Theoretical notes only.</p>	c.1968
C.376	<p>'Summary of data - muscle. 1966-9'.</p> <p>The material was found in an internal file inscribed 'Slow changes in conductance/permeability'.</p>	1966-c.1969
C.377	<p>Contents of an unmarked file.</p> <p>Data <i>re</i> experiments on muscle. Some pages are headed 'Creep. All SO₄'.</p>	1966-1967
C.378-C.379	<p>Contents of an unmarked file.</p> <p>Titles of constituent files as follows:</p>	c.1969

Research

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|-------------|---|----------------------------|
| C.378 | 'Nakajima's AP's. Copies sent to Knox'.

Letters (1969) from S. Nakajima to Hodgkin <i>re</i> experimental results by the former; manuscript data, notes etc. | 1969 |
| C.379 | 'Nakajima's APs. Copies sent to Knox'.

Figures and data. | c.1969 |
| C.380 | 'ACP top copy'.

40pp typescript draft of a paper (untitled) on the activation of muscle fibres, with figures.

No authors' names appear. The paper makes reference to an earlier paper: Adrian, Chandler & Hodgkin (1969). | 1969 or later |
| C.381-C.388 | 'Calibrations', contents of a box so inscribed.

Manuscript data, graphs and notes <i>re</i> experiments on vision.

Most of the papers are in hands other than Hodgkin's.

Titles of constituent files are as follows: | 1971-1973 |
| C.381 | 'Filter calibration 3 Nov. 1971. Old first attempt. See book'. | November 1971 |
| C.382-C.383 | 'Interference filter specifications and calibration. 8 Dec. 1971'.

Titles of further constituent files as follows: | December 1971-January 1973 |
| C.382 | '13/14 July. Checking stimulus calibration in far red end. Schott Depal interference filter characteristics'. | December 1971-July 1972 |
| C.383 | Description of calibrations etc'. | January 1973 |

Research

C.384	Calibration of light at preparation. 31 Jan & 1 Feb 1972. Also calibration of color [sic] filters & Liebman-Granda spectra. <i>Re-done</i> : 22 April 1972. See 3 May 1972 version'.	January-April 1972
C.385	'3 May 1972. Calibration of stimulus <i>re-done</i> '.	April-July 1972
C.386-C.388	'Spacial sensitivity runs on cones: collected results. Expts of 25 Apr, 29 Apr, 6 May, 10 May, 13 May, 15 May. absolute sensitivities also. Sens Δ need finishing & corrections. Add rod absolute sens 4 July'. Photocopies. 3 folders.	April-May 1972
C.389	'Michaelis fits. 1-19 Jan. 1972. Summary table'. Brief manuscript data (not in Hodgkin's hand) <i>re</i> experiments on vision.	January 1972
C.390-C.399	'Theory', contents of a box so inscribed. Manuscript notes on theory in Hodgkin's hand. Titles of constituent files as follows:	1972-c.1976
C.390-C.391	'Paper 3 theory. Autocatalytic destruc 101[?] theory. Perturbation'. All the material was found in an internal file inscribed 'Tentative theory & draft of theory paper'. Included are pages which appear to be part of a manuscript draft by Hodgkin. 2 folders.	1972
C.392-C.399	'Misc theory. Retina early'. Titles of further constituent files as follows:	c.1974- c.1976

Research

C.392-C.394	'Autocatalytic destruction theory. Perturbation method for flash on [?stop]'. 3 folders.	c.1974
C.395	'Filtering. Noise & speed of response in linear system'.	c.1974-1976
C.396	'Theory 1976'.	1976
C.397-C.399	'Instantaneous equilib. Michaelis etc'. The papers in C.399 are the contents of an internal file inscribed 'Circuit. Formula for correcting. Michaelis. When not in steady state. Modified Michaelis - substance not in large excess. One sac one channel - exponential form'. 3 folders.	[?c.1976]
C.400-C.407	'Computer runs Jan 19 (1)', contents of a file so inscribed. Chiefly computer print-outs of experimental results. Manuscript data and notes are included. Titles of constituent files as follows:	1972-1974
C.400	'Computer run 1. n=5. For 19 Jan 1972'.	1972
C.401	Computer run 1. n=5. Variants T=15 msec. Wrong data for flashes'.	1972
C.402	'For 19.1.72. Computer run 2 for steps and flashes. n=6'.	1972
C.403	'Overshoot. Computer run of 31 March 1973'. Manuscript notes.	1973

Research

C.404	'Computer run of full model. Curves available on May 10 & 11 1973. Variable T feedback [?] model'.	1973
C.405	'Computer runs of full model. Model 2. (May 14 1973). Const T feedback. Calculation of integration time and other parameters'.	1973
C.406	'Graphs for fitting. & tables'. Included are pages dated 'July 1962'.	1962, c.1973
C.407	'Economy model (no rate limit). 1) Integration 2) Analytical check'.	January 1974
C.408	'Theory notes. August 1973.'	August 1973
C.409-C.431	'Pseudemys Expts', contents of a box so inscribed. Photocopied manuscript notes and data relating to experiments on vision. Almost all the material is in hands other than Hodgkin's. Titles of constituent files as follows:	1973-1977
C.409-C.412	'Paul O'Bryan. Notebook One'. 4 folders.	June 1973- July 1974
C.413-C.414	'Paul O'Bryan. Notebook Two'. 2 folders.	July- September 1974
C.415	'Red cone - ERP. Jan 22 1974'.	January 1974
C.416	'ERP Expt. 3 red cones. 3 H cells. January 24 1974'.	January 1974

Research

C.417	'ERP. 1) Green cone few responses 2) Red cone - long run - λ g feedback effect. Feb 5th 1974'.	February 1974
C.418	'1 Red cone ERP. good cell Vmax 15mV. Very stable & quiet. Feb 6 1974'.	February 1974
C.419	'ERP Expt. 2 cones. 1 silent + ERP. 1 green cone (small response). T + s cap comp of electrode. Feb 28th 1974'.	February 1974
C.420	'3 cones. 2 red. 1 red green? Δ I Tung no ERP. 1 N Bipolar - small spot. Large. [?Ann]. displace [?] not completed. May 10th 1974'.	May 1974
C.421	'June 28th. N-Bipolar. Lg spot (1.1mm). Ann (660m - 1.1mm). Small (216m). moving small spot. June 29th. Green cone. Med resp. Vmax = Δ I [?xenon]. ERP time of bleach. 0 cordit 0.6 [ditto] 0.3 [ditto] June 28th, 29th 1974.'	June 1974
C.422	'Red cone. 1) Std. Int run tung. 2) Std Int Xenon on conditioning light. July 3rd 1974'.	July 1974
C.423	'Feb 20 1976 - cone pair #3'.	February 1976
C.424	'Feb 20 1976. Red cone pair #1'.	February 1976
C.425	'Feb 20 1976. Red cone pair #2'.	February 1976

Research

C.426	'Feb 25th 1976. H cell pair (spiking H. cell?) pairs #1 & #2'.	February 1976
C.427	'Feb 27 1976. Red cone pair #2. Single cone with resistance pulse'.	February 1976
C.428	'Sept 9 1976 (horizontal cell pairs)'.	September 1976
C.429	'Sept 23 1976. Red cone pair #2, #3, #4. Separation - slit method, dye mark'.	September 1976
C.430	'Sept 24 1976. Red cone pair #1, #2'.	September 1976
C.431	Loose pages of data.	1976-1977
C.432-C.450	Experiments on vision. Contents of a box. Chiefly computer-generated data with manuscript annotations. There are also other manuscript data and graphs. Very few papers are in Hodgkin's hand. Titles of files as follows:	1974-1976
C.432	'13 Dec 1974. Red bipolar'.	December 1974
C.433	'Summary. Bipolars. ES & TDL. PD & ALH'.	1974-1976
C.434	'30 Jan '75. Red bipolar #1'.	January 1975
C.435	'19 March '75. Bipol #3'.	March 1975

Research

C.436	'26 March '75. Bip #1'.	March 1975
C.437	'26 Mar '75 Bip #2'.	March 1975
C.438	'28 May '75. Amacrine?'	May 1975
C.439	'30 May '75. Red bipolar #1'.	May 1975
C.440	'30 June '75. Red bipolar #1 (after C [?] 2 L-cells)'.	June 1975
C.441	'1 July '75. Depol. bipolar #2'.	July 1975
C.442	'7 July '75. Red bipolar #1'.	July 1975
C.443	'17 July '75. Red bipolar #1'.	July 1975
C.444	'1 Aug '75. "Amacrine" #1. Run 167'.	August 1975
C.445	'Amacrine? 16 Jan '76. Run 213'.	January 1976
C.446	'14 Aug '75. Bipolar #1. Run 196, 197, 198'.	August 1975
C.447	'16 Jan '76. Blue cone #1'.	January 1976
C.448-C.450	'Spiking blue cone'. Manuscript graphs with annotations. 3 folders.	January 1976

Research

C.451-C.471	Experiments on vision. Contents of a box. Manuscript (in hands other than Hodgkin's) and computer-generated experimental data. The material in C.451-C.464 is all photocopied. Titles of constituent files as follows:	1974-1976
C.451	'5 red cones. ERP: but series xenon only. May 11 1974'.	May 1974
C.452	'2 rod cones. Rod ΔI tung (short series). May 14th 1974'.	May 1974
C.453	'5 cones ERP ΔI 2 green , 3 red. 1-N bipolar - slit position. May 17th 1974'.	May 1974
C.454	'May 23rd: no film, only paper record. May 24th: Green cone - paper record only. Film jammed. N-bipolar - slit position. Red cone ERP ΔI xenon. May 23rd & 24th 1974'.	May 1974
C.455	'June 4th 1974. 1 Rod ΔI Tung & single xenon flash. 3 red cones \downarrow ERP on \uparrow INT conditioning light'.	June 1974
C.456	'June 10th, 12th 1974'. June 10th. 2 red cones: single ERP on cond. light (ox). 1 green cone: 4 ERP (0 xenon) on 1.8 + 1.2 cond light. Type II H-cell: 0 xenon on 2.4, 1.2 + 0 cond. light. Red cone - same penetration as H-cell. 2 ERP (0 xenon) on 2.4 cond. June 12th. Type II H cell. 0 xenon c + s cond. light. 1 green cone. ERP (0 xenon). Effect of \uparrow Int. cond. light. Large fast resp. Type I H-cell. 0 xenon c + s cond. light. Good cell. V_{max} 50mv'.	June 1974
C.457	'June 18th 1974. 2 red, 1 green - few xenon flashes only. 1 red: recovery of sensitivity following 0 bleach (long: > 1 min)'.	June 1974

Research

C.458	'July 18th & 19th 1974. Red cone - sensitive cell. Bleaching run c 0, 0.3 + 0.6 bleaches. ΔI xenon	July 1974
C.459	'July 22nd & 23rd 1974. Begin notebook #2. July 22nd: 4 cells. 1) Type II Hcell. X flash on cond. backgrd. 2) Green cone. STD INF Run Tung. 1 x flash on cond. light. 3) Red on double cone (penetrated just after green cells moving electrode). 4) Red cone.	July 1974
C.460	'Aug. 1st 1974. P-bipolar: [triangle] stimulus dimensions + ΔI . Slit position - out only. (good record)'.	August 1974
C.461	'Aug 5th 1974. Red cone : ΔI Tung, ΔI xenon dim & Intermed. light INT, ΔI Tung, ΔI xenon - high levels, ΔI xenon on cond. background'.	August 1974
C.462	'Aug 7th 1974. Red cone: SRD INT run Tung & xenon light (low - INTER INT). High Int xenon run - 00 cond., 1.8 cond. light (low noise cell)'.	August 1974
C.463	'August 10th 1974. Cell #1. N-bipolar. ΔI Tung with diff. spot dimensions (not traced). Slit movement. Cell #2. Green cone. ΔI Tung (STD run). ΔI xenon (dim - inter). ΔI xenon - 00c, bright'.	August 1974
C.464	'Sept. 12th 1974. 2 red cones (noisy!). STD INT runs tung & xenon'.	September 1974
C.465	'Jan. 12 1976. Bipolar'.	January 1976
C.466	'Oscillating bipolar. Jan 14 1976'.	January 1976
C.467	'Aug 24 1976. Bipolar....not very good'.	August 1976

Research

C.468-C.469	'Bipolars. Digitalising runs 947 thru 957. #1, #2, #3 (depol), #4 - 23-9-76. #5, #6 - 24-9-76'. 2 folders.	September 1976
C.470	'Wiring diagram & flow charts. ALH lab (PD's script). Information about copying tapes'.	1974-1976
C.471	Loose material.	1975
C.472-C.489	Experiments on vision. Contents of a box. Almost all the material is dated 1976. Manuscript and computer-generated experimental data. Some photocopies. Most manuscript papers in hands other than Hodgkin's. Titles of constituent files as follows:	1974-1976
C.472	'Sept 18th 1974. 2 red cones. 1) a. Sensitisation b. ΔI xenon on condit. light. R & M flashed simultaneously. 2) a. Sensit. run b) Recovery ERP to OXr following OXm flash'.	September 1974
C.473-C.476	'Coupling expts. Spatial data & IV data'. Titles of constituent files as follows:	1976
C.473	'Current voltage curves'.	February- April 1976
C.474	' "Does hypapolarisation Δ the time to peak" signal ave. data.'	March-April 1976
C.475	'Dye marking cells for cone coupling: Lucifer'.	September 1976

Research

C.476	'Spatial profiles: to be fit to scatter function'.	November 1976
C.477-C.484	Unmarked file. Titles of constituent files as follows:	1976
C.477	'April 21 1976 Rod'.	April 1976
C.478-C.480	'Rod. June 1. Photon noise'. 3 folders.	June 1976
C.481	'Data summary sheets. Rod: photon noise'.	June 1976
C.482	'June 2 1976. Rod. Photon noise'.	June 1976
C.483	'August 25 1976. Rod #1, rod #2 - photon noise'.	August 1976
C.484	'August 27 1976. Cone (red). Photon noise expt'.	August 1976
C.485-C.489	Unmarked file. Titles of constituent files as follows:	1976
C.485	'Oct 6 1976. Red cone pair #1 - R mutual 17.8 m[ohms] separation ? Red-green cone pair #2 - not coupled. separation = 108.8 μ Red cone pair #3. R mutual 6.25 m[ohms] separation ?'	October 1976
C.486	'Oct 12 1976. Red cone pair #1. R mutual = 1.875 m[ohms]. Separation: slit method = 26.2 μ , dye mark = 23.4 μ '.	October 1976

Research

C.487	'Oct 26 1976. Possible 2 electrodes in 1 cell. Red cone R = 36m[ohms] separation 10'.	October 1976
C.488	'Oct 27 1976. Red cone pair #1 R mutual = 2.78m[ohms] separation = 24.7[mu]m. Red cone pair #2 R mutual = 4.16m[ohms] separation = 21.0[mu]m.'	October 1976
C.489	'Oct 28 1976. red cone pair #1 - R mutual = 9.24m[ohms] separation 14.7 μ m. Red cone pair #2 - R mutual = 1.62m[ohms] separation 43.5 μ m'.	October 1976
C.490-C.508	Experiments on vision. Contents of a box. Manuscript and computer-generated experimental data. Most of the manuscript material is not in Hodgkin's hand.	1976-1977
C.490	'Nov. 16 1976. Chelydra. Bipolar: some noise reduction in steady light, flashes of dark. Rod: very insensitive rod. No useful data'.	November 1976
C.491	'Rod A-1 : chelydra Nov. 18 1976.'	November 1976
C.492-C.493	Nov. 18 Rod. Chart record; computer print-out. 2 folders.	November 1976
C.494	'Nov 25 1976. Rod A-1'.	November 1976
C.495	'Nov 30. 1976. Rod #2'.	November 1976

Research

C.496	'Dec 1 1976'.	December 1976
C.497	'Chelydra rod #1, rod #2. Dec 14 1976'.	December 1976
C.498	'Dec 20 1976. Chelydra rod'.	December 1976
C.499	'Dec 21 1976. Rod #1B, Rod #2B'.	December 1976
C.500	'Dec 28 1976. Pseudymns cones I[?] "new" ALH lab'.	December 1976
C.501	'Dec 29 1976. Chelydra cone. Spatial properties'.	December 1976
C.502-C.504	'Jan 3 1977. Rod 3 chelydra'. 3 folders.	January 1977
C.505-C.506	'Jan 19 1977. Chelydra file 1. Rod #1, #2, #3 & #6 - file 1 - also contains voltage calibrations. Original chart record. Rod #4 - file 2 Rod #5 - file 3 2 folders.	January 1977
C.507	'Jan 19 1977. Rod #4A. Chelydra. File 2'.	January 1977
C.508	'Jan 19 1977. Chelydra rod #5A. File 3'.	January 1977

Research

C.509-C.520	Experiments on vision. Contents of a box. Manuscript and computer-generated data. Most of manuscript material is not in Hodgkin's hand. Titles of constituent files as follows:	1976-1977
C.509-C.511	'Jan 26 1977. Chelydra. Rod B-3. File 1. Rod B-3 file 1. Rod B-4 file 2'. 3 folders.	January 1977
C.512	'Jan 26 1977. Chelydra rod B3'.	January 1977
C.513-C.515	'Jan 26 1977. Rod B3. Additional material'. 3 folders.	January 1977
C.516	'Jan 26 1977. Rod B-4. File 2'.	January 1977
C.517	'Feb 3 1977. Chelydra. Rod B-2. File 3'.	February 1977
C.518	'Feb 3 1977. Rod A-2. File 2'.	February 1977
C.519	Loose papers.	January 1977
C.520	Long roll of computer-printed data with manuscript annotations.	April 1976

Research

C.521-C.538	Experiments on vision. Contents of a box. Manuscript and computer-generated data. A few papers are in Hodgkin's hand. Titles of constituent files as follows:	1976-1977
C.521-C.524	'Bipolar expt & figures'. Titles of further constituent files as follows:	1976-1977
C.521-C.523	'April 21 1976. Bipolar'. 3 folders.	April 1976
C.524	'Bipolar mss'. 1 figure only.	1976 or 1977
C.525-C.527	'Preliminary rod figs'. Titles of further constituent files as follows:	1977
C.525	'Fig: effect of B'd on flash response. Jan 26 1977. Rod B-3'.	January 1977
C.526	'1. Fig on step intensity series. Rod B4 May 20. 2. Fig showing [?] during plateau phase of step. Rod B5 May 20'.	May 1977
C.527	Loose papers.	1977
C.528	'8 September 1977. Rod A1'.	September 1977

Research

C.529	8 September 1977. Rod B1'.	September 1977
C.530	'8 September 1977. Rod A2'.	September 1977
C.531	'13 September 1977. Rod B1'.	September 1977
C.532-C.533	<p>'Erice 1977'.</p> <p>Hodgkin participated in a course 'Noise in Biological Membranes' at the International School of Biophysics, Erice, Sicily, 10-20 March 1977. He delivered two lectures on 'Analysis of responses of vertebrate photoreceptors'.</p> <p>Correspondence etc <i>re</i> arrangements and arising.</p> <p>The material in C.534-C.537 also relate to this course.</p> <p>2 folders.</p>	1976-1977
C.534-C.536	'Erice figs'.	1976-1977
C.534	<p>3pp incomplete manuscript draft of a lecture, headed 'BHL theory Erice'.</p> <p>In Hodgkin's hand.</p>	1976-1977
C.535	11pp typescript draft of one of Hodgkin's lectures entitled 'Electrical Analysis of Light Reception in Turtle Cones'.	1976-1977
C.536	Material relating to figures for the published version of the lecture.	1977

Research

C.537	'Bipolar figures. P. Detwiler. Erice'. 2pp manuscript draft by Hodgkin entitled 'A note on hyperpolarizing bipolar cells in the turtle's retina', with draft figures etc.	1976-1977
C.538	A few loose pages of data.	September 1977
C.539-C.555	Experiments on vision. Contents of a box. Divided into two large files labelled 'A' and 'B'. Very few papers are in Hodgkin's hand.	1977
C.539-C.550	File 'A'. Titles of constituent files as follows:	1977
C.539-C.540	'Feb. 3 1977. Rod A-1. File 1'. 2 folders.	February 1977
C.541-C.542	'Feb. 10 1977. Rod A-2'. 2 folders.	February 1977
C.543	'Feb. 10 1977. Rod A-3'.	February 1977
C.544	'Feb. 10 1977. Rod A-4'.	February 1977
C.545-C.546	'Feb. 10 1977. Rod A-5'. 2 folders.	February 1977

Research

C.547	'Feb. 10 1977. Rod A-6'.	February 1977
C.548-C.550	'Feb. 10 1977. Rod A-1'. 3 folders.	February 1977
C.551-C.555	File 'B'. Constituent files as follows:	1977
C.551	'Feb. 10 1977. Rod B-1'.	February 1977
C.552	Feb. 10 1977. Rod B-2'.	February 1977
C.553-C.554	'Feb. 10 1977. Rod B-3'. 2 folders.	February 1977
C.555	'Feb. 10 1977. Rod B-4'.	February 1977
C.556-C.579	Experiments on vision. Contents of a box. Manuscript and computer-generated data, some photocopies. Very few papers are in Hodgkin's hand. Titles of constituent files as follows:	1977
C.556	'March 30 1977. Rod A.1'.	March 1977
C.557	'March 30 1977. Rod B-1'.	March 1977
C.558	'March 30 1977. Rod B-2'.	March 1977

Research

C.559	'March 31 1977'.	March 1977
C.560	'April 1 1977. Rod B-1'.	April 1977
C.561	'April 1 1977. Rod B-2'.	April 1977
C.562	One page of notes found loose. Relates to the material in C.560 and C.561.	April 1977
C.563	'April 4 1977. Rod A-1'.	April 1977
C.564	'April 4 1977. Rod A-2'.	April 1977
C.565	'April 4 1977. Rod A-3'.	April 1977
C.566	'April 4 1977. Rod A-4'.	April 1977
C.567	'April 4 1977. Rod A-5'.	April 1977
C.568	'April 25 1977. Rod A-1'.	April 1977
C.569	'April 25 1977. Rod A-2'.	April 1977
C.570	'April 25 1977. Rod A-3'.	April 1977
C.571	'April 25 1977. Rod B-1'.	April 1977

Research

C.572	Loose manuscript notes.	April 1977
C.573	'27 April 1977. Ganglion cell with rod input. Rod A1 and A2'.	April 1977
C.574	'April 27 1977. Rod B1'.	April 1977
C.575	'April 29 1977. Rod B1'.	April 1977
C.576	'May 3 1977. Rod A-1'.	May 1977
C.577	'May 3 1977. Rod A-3'.	May 1977
C.578	'May 3 1977. Rod A-4'.	May 1977
C.579	'May 3 1977. Rod B1 & B2'.	May 1977
C.580-C.607	Experiments on vision. Contents of a box. Manuscript and computer-generated experimental data. Very few papers are in Hodgkin's hand. Titles of constituent files as follows:	May-June 1977
C.580	'Rod A-1. May 5 1977'.	May 1977
C.581	'Rod A-2. May 5 1977'.	May 1977
C.582	'May 5 1977. Rod A-3'.	May 1977

Research

C.583	'May 5 1977. Rod B-1'.	May 1977
C.584	'May 5 1977. Rod B-2'.	May 1977
C.585	'May 5 1977. Rod B-3'.	May 1977
C.586	'Rod B-1. May 11 1977'.	May 1977
C.587	'May 11 1977. Rod B-2'.	May 1977
C.588	'May 11 1977. Rod B-4'.	May 1977
C.589	'May 11 1977. Rod B-5'.	May 1977
C.590	'May 11 1977. Rod B-6'.	May 1977
C.591	'May 11 1977. Ganglion cell. Horizontal cell'.	May 1977
C.592	'May 16 1977. Rod A-1'.	May 1977
C.593	'May 16 1977. Rod A-2'.	May 1977
C.594	'May 16 1977. Ganglion cells'.	May 1977
C.595	'May 16 1977. Rod B-1'.	May 1977
C.596	Loose papers relating to the material in C.592-C.595.	May 1977

Research

C.597	'June 3 1977. Rod A-1'.	June 1977
C.598	'June 3 1977. Rod A-2'.	June 1977
C.599	'June 3 1977. Rod A-3'.	June 1977
C.600	'June 3 1977. Rod A-4'.	June 1977
C.601	'June 3 1977. Rod A-5'.	June 1977
C.602	'June 3 1977. Rod A-6a'.	June 1977
C.603	'June 3 1977. Rod A-6b'.	June 1977
C.604	'June 3 1977. Rod A-7'.	June 1977
C.605	'June 3 1977. Rod B-1'.	June 1977
C.606	'June 3 1977. Ganglion cells A-1, A-2, B-1'.	June 1977
C.607	'June 3 1977. "Deleted rods" '.	June 1977
C.608-C.625	Experiments on vision. Contents of a box. Manuscript and computer-generated experimental data, some photocopies. A few papers are in Hodgkin's hand. Divided into 3 large files, two inscribed 'A' and 'B' respectively, the third inscribed with a date.	

Research

C.608-C.615	File 'A'. Titles of constituent files as follows:	May-June 1977
C.608	'May 20 1977. Rod A-1'.	May 1977
C.609	'May 20 1977. Ganglion cells. A-1, A-2 (same track as Rod A-6)'.	May 1977
C.610	'May 20 1977. Rod A-2'.	May 1977
C.611	'May 20 1977. Rod A-5'.	May 1977
C.612	'May 20 1977. Rod A-6 (Ganglion cell A-2 in same track)'.	May 1977
C.613	'May 20 1977. Rod A-8'.	May 1977
C.614	'May 20 1977. Rod A-7'.	May 1977
C.615	'June 13 1977. Ganglion cell A-2'.	June 1977
C.616-C.620	File 'B'. Titles of constituent files as follows.	May 1977
C.616	'May 20 1977. Rod B-1'.	May 1977
C.617	'May 20 1977. Rod B-2'.	May 1977
C.618	'May 20 1977. Rod B3'.	May 1977

Research

C.619	"May 20 1977. Rod B-4'.	May 1977
C.620	'May 20 1977. Rod B-5'.	May 1977
C.621-C.625	'May 25 1977'. Titles of constituent files as follows.	May 1977
C.621	'May 25 1977. Rod A-1'.	May 1977
C.622	'May 25 1977. Rod B-1'.	May 1977
C.623	'May 25 1977. Rod B-2'.	May 1977
C.624	'May 25 1977. Rod B-3'.	May 1977
C.625	Loose papers relating to the material in C.621-C.624.	May 1977
C.626-C.652	Experiments on vision. Contents of a box. Manuscript and computer-generated experimental data. A few papers are in Hodgkin's hand. Titles of constituent files as follows:	June-August 1977
C.626	'June 13 1977. Ganglion cell A-1'.	June 1977
C.627	'June 13 1977. Rod A-1'.	June 1977
C.628-C.629	'June 17 1977. Rod A-3'. 2 folders.	June 1977

Research

C.630	'June 17 1977. Rod A-1'.	June 1977
C.631	'June 17 1977. Rod A-2'.	June 1977
C.632	'June 17 1977. Rod B-1'.	June 1977
C.633	'June 17 1977. Rod B-2'.	June 1977
C.634	'June 17 1977. Rod B-3'.	June 1977
C.635	'June 17 1977. Rod B-4'.	June 1977
C.636	'June 17 1977. Ganglion cell B-1'.	June 1977
C.637	'June 17 1977. Deleted rods'.	June 1977
C.638	'June 28 1977. Rod A-1'.	June 1977
C.639	'June 28 1977. Rod B-1'.	June 1977
C.640	'June 28 1977. Rod B-2'.	June 1977
C.641	'June 28 1977. Ganglion cell'.	June 1977
C.642	'June 28 1977. Deleted rods'.	June 1977
C.643	'July 4 1977. Rod A-1'.	July 1977

Research

C.644	'July 4 1977. Rod A-2'.	July 1977
C.645	'July 4 1977. Rod A-3'.	July 1977
C.646	'July 4 1977. Rod B-1'.	July 1977
C.647	'July 4 1977. Rod B-2'.	July 1977
C.648	'July 4 1977. Rod B-3'.	July 1977
C.649	'July 4 1977. Rod B-4'.	July 1977
C.650	'August 10 1977. Rod B-1'.	August 1977
C.651-C.652	'August 10 1977. Rod A1'. 2 folders.	August 1977
C.653-C.674	Experiments on vision. Contents of a box. Manuscript and computer-generated experimental data. None of the material is in Hodgkin's hand. Titles of constituent files as follows:	August- October 1977
C.653	'25 August 1977. Rod A1'.	August 1977
C.654	'25 August 1977. Rod A2'.	August 1977
C.655	'25 August 1977. Rod A3'.	August 1977

Research

C.656	'25 August 1977. Rod A4'.	August 1977
C.657	'25 August 1977. Rod B1'.	August 1977
C.658	'6 September 1977. Rod A1'.	September 1977
C.659	'6 September 1977. Rod B1'.	September 1977
C.660	'6 September 1977. Rod B2'.	September 1977
C.661	'28 September 1977. Rod A1'.	September 1977
C.662	'28 September 1977. Rod A2'.	September 1977
C.663-C.664	'28 September 1977. Rod A3'. 2 folders.	September 1977
C.665	'28 September 1977. Rod A4'.	September 1977
C.666	'28 September 1977. Rod B1'.	September 1977
C.667	'28 September 1977. Rod B2'.	September 1977
C.668	'11 October 1977. Rod A1'.	October 1977

Research

C.669	'17 October 1977. Red cone B1'.	October 1977
C.670	'17 October 1977. Red cone B2'.	October 1977
C.671	'17 October 1977. Red cone B3'.	October 1977
C.672	'17 October 1977. Red cone B4'.	October 1977
C.673-C.674	'17 October 1977. Red cone B5'. 2 folders.	October 1977
C.675-C.683	Experiments on vision. Contents of a box. Manuscript and computer-generated experimental data, some photocopies. Some papers are in Hogkin's hand. Titles of constituent files as follows:	c.1976-1977
C.675-C.677	'Light calibrations. ALH lab'. Only a few papers are dated 1976. Included at C.677 is a letter by Hodgkin to [? P.B. Detwiler] <i>re</i> the light calibration experiments. 3 folders.	November 1976-1977
C.678	'Variance calibration'.	[c. February] 1977
C.679	'Calibrations of spatial properties: ALH lab'.	June 1977
C.680	'30 August 1977. Photomultiplier calibrations'.	August 1977

Research

C.681	'31 August 1977. Light leak'.	August 1977
C.682	'5 September 1977. Tests of light leak after adding light-tight box in back beam - ok'.	September 1977
C.683	'Light calibrations. PBD lab'. A few photocopied pages.	c.1976
C.684-C.700	Experiments on vision. Contents of a box. Manuscript and computer-generated experimental data and calculations. Calculations in Hodgkin's hand are at C.686. Titles of constituent files as follows:	January-May 1978
C.684	'23 Jan 1978. Rod A1'.	January 1978
C.685	'23 January 1978. Rod A2'.	January 1978
C.686	'23 January 1978. Rod A3'.	January 1978
C.687	'26 January 1978. Rod A1'.	January 1978
C.688	'26 January 1978. Ganglion cell A1 (same place in retina as rod A1)'.	January 1978
C.689	'26 January 1978. Ganglion cell A2'.	January 1978
C.690	'26 Jan. 1978. Rod A2'.	January 1978

Research

C.691-C.692	'26 Jan 1978. Rod B1'. 2 folders.	January 1978
C.693	'26 Jan 1978. Rod B2 (plus chart cal pulses)'.	January 1978
C.694	'9 Feb 1978. Rod A1'.	February 1978
C.695	'9 Feb 1978. Rod A2'.	February 1978
C.696	'9 Feb 1978. Rod A3'.	February 1978
C.697	'10 May 1978. Rod A1'.	May 1978
C.698	'10 May 1978. Rod A2'.	May 1978
C.699	'10 May 1978. Rod B1'.	May 1978
C.700	'10 May 1978. Rod B2'.	May 1978
C.701-C.714	Experiments on vision. Contents of a box. Manuscript and computer-generated experimental data. Some papers are in Hodgkin's hand. Titles of constituent files as follows:	1979-1980
C.701-C.703	'1979 LMY data. Relevant'. Titles of further constituent files as follows:	October- November 1979

Research

C.701-C.702	'31 Oct 1979. Rod 1. 1) Flash intensity - response family 2) Desensitization profile from steady slit'. 2 folders.	October 1979
C.703	'Fits to LMY background underswing data'.	November 1979
C.704	'20 May 1980. Cell #1'.	May 1980
C.705	'20 May 1980. Cell #2'.	May 1980
C.706	'20 May 1980. Cell #3'.	May 1980
C.707	'21 May 1980. Cells 1 & 2. To examine pH 7.2 on photoresponse'.	May 1980
C.708	'22 May 1980. Examine effect of 22mM HCO ₃ ⁻ / 10% CO ₂ on photoresponse'.	May 1980
C.709	'7 June 1980. Rod 1'.	June 1980
C.710	'7 June 1980. Rod 2,3,4'.	June 1980
C.711	'8 June 1980. Cell 1'.	June 1980
C.712	'11 June 1980. Cell 1'.	June 1980
C.713	'11 June 1980. Cell 2'.	June 1980

Research

C.714	Loose material.	May - June 1980
C.715-C.731	Experiments on vision. Manuscript and computer-generated experimental data. A few papers are in Hodgkin's hand. Titles of constituent files as follows:	June-July 1980
C.715-C.716	'12 June 1980. Cell 1'. 2 folders.	June 1980
C.717	'13 June 1980. Cell 1'.	June 1980
C.718	'17 June 1980. Rod 1'.	June 1980
C.719	'17 June 1980. Rod 2'.	June 1980
C.720-C.721	'17 June 1980. Rod 3'. 2 folders.	June 1980
C.722-C.723	'18 June 1980. Cell #1'. 2 folders.	June 1980
C.724	'23 June 1980. Cell #2'.	June 1980
C.725	'3 July 1980. Cell 1'.	July 1980
C.726	'4 July 1980. Cell 1'.	July 1980

Research

C.727	'8 July 1980. Cell 1'.	July 1980
C.728	'8 July 1980. Cell 2'.	July 1980
C.729	'8 July 1980. Cell 3'.	July 1980
C.730	'14 July 1980. Cell 1'.	July 1980
C.731	'14 July 1980. Cell 2'.	July 1980
C.732-C.749	Experiments on vision. Manuscript and computer-generated experimental data. A few papers are in Hodgkin's hand. Titles of constituent files as follows:	July-August 1980
C.732	'15 July 1980. Cell 1'.	July 1980
C.733	'15 July 1980. Cell 2'.	July 1980
C.734	'17 July 1980. Cell 1'.	July 1980
C.735	'17 July 1980. Cell 2'.	July 1980
C.736	'18 July 1980. Cell 1'.	July 1980
C.737	'18 July 1980. Cell 2'.	July 1980
C.738	'18 July 1980. Cell 3'.	July 1980

Research

C.739	'22 July 1980. Cells 1, 2, 3'.	July 1980
C.740-C.741	'24 July 1980. Cell 1'. Included are photographs at C.741. 2 folders.	July 1980
C.742	'24 July 1980. Cell 2'.	July 1980
C.743	'25 July 1980. Cell 1'.	July 1980
C.744	'25 July 1980. Cell 2'.	July 1980
C.745	'29 July 1980. #1'.	July 1980
C.746	'29 July 1980. Cell 2'.	July 1980
C.747	'1 August 1980. Cell 1'.	August 1980
C.748	'4 August 1980. Cell 1'.	August 1980
C.749	'4 August 1980. Cell 2'.	August 1980
C.750-C.765	Experiments on vision. Contents of a box. Manuscript and computer-generated experimental data. Much of the material is in Hodgkin's hand. Titles of constituent files as follows:	August- October 1980

Research

C.750	'Rod 1. 8 August 1980'. Photographs are included.	August 1980
C.751	'Rod 2. 8 August 1980'. Photographs are included.	August 1980
C.752	'15 August 1980. Rod 1'.	August 1980
C.753	'15 August 1980. Rod 2'.	August 1980
C.754	'18 August 1980. Rod 1'.	August 1980
C.755	'18 August 1980. Rod #2'.	August 1980
C.756	15 September 1980. Rod 1 (only)'.	September 1980
C.757-C.759	'19 Sept. 1980. Rod #1 only. See 3 Aug 81 #2 file'. 3 folders.	September 1980
C.760	'22 Sept. 1980'.	September 1980
C.761	'15 Oct. 1980. Study of noise increase. Not v. good'.	October 1980
C.762	'17 Oct. 1980. Study of noise increase. Not v. good'.	October 1980
C.763	'20 Oct. 1980. Cell 1. Not v. good'.	October 1980

Research

C.764	'21 Oct. 1980. Cell 1. Study of dark noise increase'.	October 1980
C.765	'21 Oct 1980. Cell 2. Study of dark noise increase'.	October 1980
C.766-C.782	Experiments on vision. Contents of a box. Manuscript and computer-generated experimental data. Much of the material is in Hodgkin's hand. Titles of constituent files as follows:	October- November 1980
C.766-C.767	'24 Oct. 1980. Cell 1'. 2 folders.	October 1980
C.768	'24 Oct. 1980. Cell 2'.	October 1980
C.769	'24 Oct. 1980. Cell 3'.	October 1980
C.770	'11 November 1980. Rod 1'.	November 1980
C.771	'11 Nov. 1980. Rod 2. Attempted noise run with Na 0Ca unbuffered'. Photographs included.	November 1980
C.772	'11 Nov 1980. Rod 3. Interesting cell.' Included are photographs.	November 1980
C.773	'13 Nov. 1980. Cell 1'.	November 1980
C.774	'25 Nov 1980. Rod 1'.	November 1980

Research

C.775	'25 November 1980. Rod 2'.	November 1980
C.776	'26 Nov. 1980. Cell 1. No good'.	November 1980
C.777	'26 November 1980. Cell 2. Superlinearity in 20Na. Bars and tongue'.	November 1980
C.778	'26 Nov. 1980. Cell 3'.	November 1980
C.779	'27 November 1980. Rod #1'.	November 1980
C.780	'27 Nov. 1980. Rod #2. Only shows effect on dark current of Ringer 20Na 1Ca'.	November 1980
C.781-C.782	'27 November 1980. Rod #3 (Rod #2 no good)'. 2 folders.	November 1980
C.783-C.792	Experiments on vision. Contents of a box. Manuscript and computer-generated experimental data. Most of the material is in Hodgkin's hand. Titles of constituent files as follows:	November- December 1980
C.783	'13 Nov. 1980. Cell 2'.	November 1980
C.784	'13 Nov. 1980. Cell 3. Bars. Superlinearity in 20Na'.	November 1980

Research

C.785	'4 Dec. 1980. Cell 1'.	December 1980
C.786-C.788	'4 Dec. 1980. Cell 2'. Photographs are included at C.787. 3 folders.	December 1980
C.789	'9 Dec. 1980'.	December 1980
C.790	'10 Dec. 1980. Rod 1'.	December 1980
C.791-C.792	'12 December 1980. Rod 1'. Photographs at C.792. 2 folders.	December 1980
C.793-C.803	Experiments on vision. Contents of a box. Manuscript and computer-generated experimental data. Some of the material is in Hodgkin's hand. Titles of constituent files are as follows:	November 1982
C.793	'1 Nov. 1982. Rod 1 only'.	November 1982
C.794	'4 Nov. 1982. Rod 1&2 - short. Rod 3 - main expt. Much useful material and possible figures'.	November 1982
C.795	'8 Nov. 1982. Rod 2 (&1). Rod 1 enclosed - no good'.	November 1982

Research

C.796	'8 Nov. 1982. Rod 3'.	November 1982
C.797	'11 Nov. 1982. Rods 1 & 2'.	November 1982
C.798	'12 Nov. 1982. Rod 1 & rod 2 (hour glass pipette)'.	November 1982
C.799	'12 Nov. 1982. Rod 3'.	November 1982
C.800	'12 Nov. 1982. Rod #4'.	November 1982
C.801-C.802	'19 Nov. 1982. Rod #1'. 2 folders.	November 1982
C.803	Loose material.	November 1982
C.804-C.817	Experiments on vision. Contents of a box. Manuscript and computer-generated experimental data. Some papers are in Hodgkin's hand. Titles of constituent files as follows:	November- December 1982
C.804	'16 Nov. 1982. Rod 1. No good'.	November 1982
C.805	'16 Nov 1982. Rod 2'.	November 1982

Research

C.806	'6 December 1982 [Rod 1]'. 	December 1982
C.807	'6 December 1982. Rod 2'. 	December 1982
C.808	'7 Dec. 1982. One rod only - poor'. 	December 1982
C.809	'8 Dec. 1982. Rod 1'. 	December 1982
C.810	'8 Dec. 1982. Rod 2'. 	December 1982
C.811	'8 Dec. 1982. Rod 3'. 	December 1982
C.812	'8 Dec. 1982. Rod 4'. 	December 1982
C.813-C.814	'15 Dec. 1982. Rod 1. Some analysis is in 14 Dec. 82 #1'. 2 folders.	December 1982
C.815	'15 Dec. 1982. Rod 2. 400 p[?A] at end'. 	December 1982
C.816	'15 Dec. 1982 #1. Additional analysis by Brian N[unn]'. 	December 1982
C.817	'15 Dec. Rod 3'. 	December 1982

Research

C.818-C.831	Experiments on vision. Contents of a box. Manuscript and computer-generated experimental data. Some papers are in Hodgkin's hand. Titles of constituent files as follows:	December 1982- February 1983
C.818-C.820	'14 Dec. 1982. #1'. 3 folders.	December 1982
C.821	'14 Dec. 1982. #2'.	December 1982
C.822	'22 Dec 1982. #1'.	December 1982
C.823	'22 Dec. 1982. #2'.	December 1982
C.824	'3 January 1983. #1. Poorish'.	January 1983
C.825	'3 Jan 1983. #2'.	January 1983
C.826	'4 Jan. 1983. #1 & #2. Poorish'.	January 1983
C.827	'5 Jan. 1983. #1 (and #3, no #2)'.	January 1983
C.828	'5 Jan. 1983. Rod 4'.	January 1983
C.829	'5 Jan 1983. #5. Brief pulses'.	January 1983
C.830	'14 Feb. 1983. Rod #1'.	February

Research

C.831	'14 Feb. 1983. Rods # 2 & 3'.	1983 February 1983
C.832-C.848	Experiments on vision. Contents of a box. Manuscript and computer-generated experimental data. Most of the material is not in Hodgkin's hand. Titles of constituent files as follows:	January- March 1983
C.832	'25 Jan. 1983. # 1. n.v.g.'.	January 1983
C.833	'25 Jan. 1983. #2'.	January 1983
C.834	'25 Jan. 1983. #3'.	January 1983
C.835	'26 Jan. 1983. #1'.	January 1983
C.836	'26 Jan. 1983. Salamander cone #1 (red?)'.	January 1983
C.837	'26 Jan. 1983. Salamander rod #1 (red?)'.	January 1983
C.838	'26 Jan. 1983 #2'.	January 1983
C.839	'15 Feb. 1983. Rod #1'.	February 1983
C.840	'15 Feb. 1983. Toad rod. Rod #2'.	February 1983
C.841-C.842	'9 March 1983. Rod #1'. 2 folders.	March 1983

Research

C.843	'9 March 1983. Rod #2. Run 230'.	March 1983
C.844	'10 March 1983. #3. Rod #2 no good - record discarded'.	March 1983
C.845	'10 March 1983. Rod #4'.	March 1983
C.846	'15 March 1983. Rod #1'.	March 1983
C.847-C.848	'15 March 1983. Rod #2'. 2 folders.	March 1983
C.849-C.865	Experiments on vision. Contents of a box. Manuscript and computer-generated experimental data. Titles of constituent files as follows:	May- September 1983
C.849	'Salamander. 10 May 1983. Rod 1'.	May 1983
C.850	'10 May 1983. Salam. rods 2 & 3'.	May 1983
C.851	'21 May 1983. Salamander rod #1 (& 2, n.v.g.)'.	May 1983
C.852	'21 May 1983. Salamander. Rod #3'.	May 1983
C.853	'22 May 1983. Toad rod #1. Results 'ok' & not plotted'.	May 1983
C.854	'23 May 1983. Toad rod #1. Recording no good - not digitized'.	May 1983

Research

C.855	'24 May 1983. Toad rod #1'.	May 1983
C.856-C.857	'24 May 1983. Toad rod #2. Experiment using new stage-movement method of changing solutions'. 2 folders.	May 1983
C.858	'23 June 1983. Rod #1. Not v. useful'.	June 1983
C.859	'23 June 1983. Rod #2. Not digitized - not v. useful. Note inward (Na+, Ca++ ?) current ongoing. 27.5K, 55Na, 1 μ Ca - 110Na, 1Ca (1) Also delayed activation on doing reverse of (1)'.	June 1983
C.860	'24 June 1983. Rod #1'.	June 1983
C.861	'Solutions for 22-23 Sept. 1983'.	September 1983
C.862	'23 Sept. 1983. Rod #1'.	September 1983
C.863	'23 September 1983. Rod #2'.	September 1983
C.864	'23 Sept. 1983. Rod #3'.	September 1983
C.865	'23 Sept. 1983. Rod #4'.	September 1983

Research

C.866-C.870	Experiments on vision. Contents of a box. Experimental data and notes. Some papers are in Hodgkin's hand. Titles of constituent files as follows:	1982-1984
C.866	'Summaries for selectivity paper - Ca++ currents'.	March 1983 - January 1984
C.867	'Selectivities of monovalent cations in 1 μ M-Ca. June-July 1983'.	June-July 1983
C.868	'Collected results Nov. 1982-May 1983. Responses in 1 μ M-Ca. 0Mg. Inward dark current'.	November 1982-May 1983
C.869	'Nov. - Dec. 1982, Jan 1983 - summaries'.	November 1982 - January 1983
C.870	Loose material.	c. 1983
C.871-C.881	Experiments on vision. Contents of a box. Manuscript and computer-generated experimental data. Most of the material is not in Hodgkin's hand. Titles of constituent files as follows:	June-July 1983
C.871	'25 June 1983. Rod #1 n.v.g. Rod #3 - inverted responses from distal tip when proximal portion of o.s. is in 1 μ Ca, 110Na'.	June 1983
C.872	'25 June 1983. Rod #2'.	June 1983
C.873	'30 June 1983. Rod #1'.	June 1983

Research

C.874	'30 June 1983. Rod #4'.	June 1983
C.875	'30 June 1983. Rod 5'.	June 1983
C.876	'1 July 1983. Rod #1. 1 expt. (55 - 110Na) only'.	July 1983
C.877	'1 July 1983. Rod #2'.	July 1983
C.878	'2 July 1983. Rod #1'. Not useful'.	July 1983
C.879	2 July 1983. Rod 2'.	July 1983
C.880	'2 July 1983. Rod #3. Activation : ONa - 55K 1 μ Ca'.	July 1983
C.881	'2 July 1983. Rod #4'.	July 1983
C.882-C.899	Experiments on vision. Contents of a box. Manuscript and computer-generated experimental data. A few papers are in Hodgkin's hand. Titles of constituent files as follows:	July 1983
C.882	'9 July 1983. #1'.	July 1983
C.883	'9 July 1983. Rod #2'. Rod in 1/2 activated state (20 Na 1 μ Ca) & 90K or 90Rb added'.	July 1983
C.884	'9 July 1983. Rod #3. n.v.g'.	July 1983

Research

C.885-C.886	'20 July 1983. Rod #1'. 2 folders.	July 1983
C.887	'20 July 1983. #2. Analysis (graphs in main file)'.	July 1985
C.888-C.889	'20 July 1983. Rod #2. Note cell position - cilium well inside pipette'. 2 folders.	July 1983
C.890	'15-25 Sept. 1983. Flow / change rate using conductance & voltage measurements'. Photographs are included.	September 1983
C.891	'22 September 1983. Rods 1 & 2: nvg. 3, 4, 5: nvg'.	September 1983
C.892	'22 Sept. 1983. Rod #6'.	September 1983
C.893	'27 September 1983. Rod #1'.	September 1983
C.894	'27 Sept. 1983. Rod #2'.	September 1983
C.895	'27 Sept. 1983. Rod #3'.	September 1983
C.896	'27 September 1983. Rod #4. Good experiment'.	September 1983

Research

C.897	'28 Sept. 1983. #1. n.v.g.'	September 1983
C.898	'28 Sept. 1983. #2. n.v.g.'	September 1983
C.899	'28 Sept. 1983. #3. Also fragment rod 5'.	September 1983
C.900-C.917	Experiments on vision. Contents of a box. Manuscript and computer-generated experimental data. Some papers are in Hodgkin's hand. Titles of constituent files as follows:	September- October 1983
C.900	'29 Sept. 1983. Rod #1'.	September 1983
C.901	'29 Sept. 1983. #2'.	September 1983
C.902	'29 Sept. 1983. #3'.	September 1983
C.903	'29 Sept. 1983. Rods 4, 5, 6, 7. Poor - perhaps 7 should be looked at'.	September 1983
C.904	'29 Sept. 1983. Rod #8'.	September 1983
C.905-C.906	'12 Oct. 1983. Salamander rod #1'. 2 folders.	October 1983
C.907	'12 Oct. 1983. Rod #1'.	October 1983

Research

C.908	'12 Oct. 1983. Rod 2'.	October 1983
C.909	'12 Oct 1983. #3'.	October 1983
C.910-C.911	'12 October 1983. Rod #4'. 2 folders.	October 1983
C.912	'12 Oct. 1983. Rod #5'.	October 1983
C.913	'14 Oct. 1983. Toad rod #1'.	October 1983
C.914	'14 Oct. 1983. #2'.	October 1983
C.915	'14 Oct. 1983. #3'.	October 1983
C.916	'15 Oct. 1983. #1'.	October 1983
C.917	'15 Oct. 1983. #2'.	October 1983
C.918-C.941	Experiments on vision. Contents of a box. Manuscript and computer-generated experimental data. Most of the material is not in Hodgkin's hand. Titles of constituent files as follows:	October- December 1983
C.918	'Solutions for week beginning 9 October 1983'.	October 1983
C.919	'11 October 1983. Rod #1'.	October 1983

Research

C.920	'11 October 1983. Rod #2'.	October 1983
C.921-C.922	'11 October 1983. Rod #3'. 2 folders.	October 1983
C.923	'11 Oct. 1983. Rod #4'.	October 1983
C.924	'11 Oct. 1983. Rod #5'.	October 1983
C.925	'11 Oct. 1983. Rod #6'.	October 1983
C.926	'11 Oct. 1983. Rod #7'.	October 1983
C.927	'Solution making rough notes (20 Nov 1983, week of)'.	November 1983
C.928	'22 Nov. 1983. #1. Short'.	November 1983
C.929	'22 Nov. 1983. #2. Not worth digitizing'.	November 1983
C.930	'22 Nov. 1983. #3. Good but incomplete'.	November 1983
C.931	'22 Nov. 1983. Rod #4. Actually 2 cells. Not worth digitizing?'.	November 1983
C.932	'23 Nov. 1983. Rod #1. Good but incomplete - not worth digitizing'.	November 1983

Research

C.933	'23 Nov. 1983. Rod #2. Best run on this day'.	November 1983
C.934	'23 Nov. 1983. Rod #3. Good, then packed up - worth digitizing'.	November 1983
C.935	'23 Nov. 1983. Rod #4'.	November 1983
C.936	'23 Nov. 1983. Rods 5 & 6. Poor - haven't digitized'.	November 1983
C.937	'24 Nov. 1983. 6 rods - none very good'.	November 1983
C.938-C.939	'25 Nov. 1983. Salamander rod 1'. 2 folders.	November 1983
C.940	'1 Dec. 1983. Sal rods 1-3. Not worth digitizing'.	December 1983
C.941	'1 Dec. 1983. Salam. rods 4, 5. Nothing useful'.	December 1983
C.942-C.962	Experiments on vision. Contents of a box. Manuscript and computer-generated experimental data, with some theoretical notes. Some papers are in Hodgkin's hand. Titles of constituent files as follows:	December 1983-January 1984
C.942	'2 December 1983. Salam rod #1. n.v.g. not digitized'.	December 1983
C.943	'2 Dec. 1983. Salam rod #2'.	December 1983

Research

C.944	'2 December 1983. Salam rods 3-6. Not worth digitizing'.	December 1983
C.945	'2 Dec. 1983. Salam rod #7'.	December 1983
C.946	'2 December 1983. Salam rod #8'.	December 1983
C.947	'2 December 1983. Sal rod #9'.	December 1983
C.948	'2 Dec. 1983. #9. Extra graphs'. Included are theoretical notes in Hodgkin's hand.	December 1983
C.949	'20 December 1983. Toad rod #1'.	December 1983
C.950	'20 December 1983. Toad rod #2'.	December 1983
C.951	'20 December 1983. Toad rod #3'.	December 1983
C.952	'20 December 1983. Rod 4 (and 4b no tape)'.	December 1983
C.953	'21 December 1983. Rod 1'.	December 1983
C.954	'21 December 1983. Rod 2'.	December 1983

Research

C.955	'23 December 1983. Rods 1 & 2. Short but worth digitizing'.	December 1983
C.956	'23 Dec. 1983. Rod 3'.	December 1983
C.957	'23 December 1983. Rod 4'.	December 1983
C.958	'4 January 1984. Rod #1'.	January 1984
C.959	'4 January 1984. Rod #2'.	January 1984
C.960	'4 January 1984. Rod #3'.	January 1984
C.961	'4 January 1984. Rod #4'.	January 1984
C.962	26 January 1984. Rod #1'.	January 1984
C.963-C.974	Experiments on vision. Contents of a box. Manuscript and computer-generated experimental data. In hands other than Hodgkin's. Titles of constituent files are as follows:	January 1984
C.963	'5 January 1984. Rod #1 (toad)'.	January 1984
C.964	'5 January 1984. Rod #2 (toad)'.	January 1984
C.965	'5 January 1984. Rod 3 (toad)'.	January 1984

Research

C.966	'5 January 1984. Rod 4 (toad)'.	January 1984
C.967	'18 January 1984. Rod #1'.	January 1984
C.968	'18 January 1984. Rod #2'.	January 1984
C.969	'18 January 1984. Toad rod #3'.	January 1984
C.970	'20 January 1984. Rod #1'.	January 1984
C.971-C.972	20 January 1984. Toad rod #2'. 2 folders.	January 1984
C.973	'27 January 1984. Rod #1'.	January 1984
C.974	'27 January 1984. Rod 2'.	January 1984
C.975-C.990	Experiments on vision. Contents of a box. Manuscript and computer-generated experimental data, with photographs. Some of the material is in Hodgkin's hand. Titles of constituent files as follows:	April-May 1984
C.975	'10 April 1984. Rod #2 (rod #1 no good). One Ca transient. Not worth digitizing'.	April 1984
C.976	'12 April 1984. Rod #1. Excellent cell - extensive study of Ca transients etc'.	April 1984

Research

C.977	'12 April 1984. Rod #2. Effects of light on "pumping transients" '.	April 1984
C.978	'13 April 1984. Rod #1. Effect of La on "pumping transient". 20 sec pulse of ONa'.	April 1984
C.979	'13 April 1984. Rod #2. Effect La3+ on pumping transient (short pulses of ONa)'.	April 1984
C.980	'13 April 1984. Rod #3. Effect of pulses of high K, high Ca, before flash, on plat[?] duration. Not very good all - but some data. Not worth digitizing'.	April 1984
C.981	'16 May 1984. #1. Salamander'.	May 1984
C.982	'16 May 1984. #2. Salamander'.	May 1984
C.983	'16 May 1984. #3'.	May 1984
C.984	'17 May 1984. Rods 1-3 salamander'.	May 1984
C.985-C.986	'17 May 1984. Rod 4. Excellent cell. Series of exposures to 1Ca, 10Ca, 0Na while in 110Na 1μCa & in Ringer'. 2 folders.	May 1984
C.987	'17 May 1984. Rod #5. Superb cell. I vs. Na in 1μM Ca. Compare flashes of light & 1Ca while in 10Na 1μM Ca'.	May 1984
C.988	'18 May 1984. #1 & dud. Salamander'.	May 1984

Research

C.989-C.990	'18 May 1984. #2. Salamander'. 2 folders.	May 1984
C.991-C.1007	Experiments on vision. Contents of a box. Manuscript and computer-generated experimental data. A few papers are in Hodgkin's hand. Titles of constituent files as follows:	May- November 1984
C.991	'25 May 1984. Rods 1, 2, 3 poor. A few 75Na 1 μ Ca with [?] w/o Mg. Salamanders'.	May 1984
C.992	'25 May 1984. #4. Salamander. Good expt. Big currents. 600pA in 75-Na 1 μ Ca. Nice effects taking away Mg'.	May 1984
C.993	'25 May 1984. #5'.	May 1984
C.994	'25 May 1984. Salamander rod. #6'.	May 1984
C.995	'25 May 1984. #7'.	May 1984
C.996	'25 May 1984. Salamander rod #8'.	May 1984
C.997	'25 May 1984. Rod #9'.	May 1984
C.998	'5 June 1984. Salamander rod 1'.	June 1984
C.999	'5 June 1984. #2. No rod #3'.	June 1984
C.1000	'5 June 1984. #4'.	June 1984

Research

C.1001	'5 June 1984. #5'.	June 1984
C.1002	'5 June 1984. Salamander rod 6-7'.	June 1984
C.1003	'5 June 1984. Rod 8'.	June 1984
C.1004	'24 November 1984. Salamander rod #1'.	November 1984
C.1005	'24 November 1984. Rod #2'.	November 1984
C.1006	'24 Nov. 1984. Salamander rod #3'.	November 1984
C.1007	'24 November 1984. Salamander rod #4'.	November 1984
C.1008-C.1034	Experiments on vision. Contents of a box. Manuscript and computer-generated experimental data. A few papers are in Hodgkin's hand. Titles of constituent files as follows:	April 1984- January 1985
C.1008	'17 April 1984. #1. Not worth digitizing'.	April 1984
C.1009	'17 April 1984. #2. Similarity between decay in Li 1Ca & in 35Na 1 μ Ca - 74Ca'.	April 1984
C.1010	'18 April 1984. #1 (toad). Similarity in decay in Li 1Ca & in 35 Na 1 μ Ca - 74Ca'.	April 1984

Research

C.1011	'18 April 1984. #2 (toad). Similarity in decay in Li 1Ca & in ^{35}Na $1\mu\text{Ca}$ - ^{74}Ca '.	April 1984
C.1012	'23 April 1984. Rod 1. [?] of current decay in Li with 1BMX & 6 kg lights'.	April 1984
C.1013	'23 April 1984 (toad). Rod 2 (and rod 3 poor). Ringer - Li 1Ca - Li 0.1Ca'.	April 1984
C.1014	'23 April 1984. Rod 4. [?] of current decay in Li 0.1Ca, Li 1Ca, Li 10Ca, Li 1Ca & 1BMX'.	April 1984
C.1015	'26 May 1984. Rod #1'.	May 1984
C.1016	'26 May 1984. Rod #2 (no rod #3)'.	May 1984
C.1017	'26 May 1984. Rod #4 (no rod #3)'.	May 1984
C.1018	'26 May 1984. Rods 5 & 6'.	May 1984
C.1019	'8 June 1984. Rod 1. Salamander'.	June 1984
C.1020	'8 June 1984. Rod 2'.	June 1984
C.1021	'9 June 1984. Rod 1'.	June 1984
C.1022	'9 June 1984. #2'.	June 1984

Research

C.1023-C.1024	'9 June 1984. #3'. 2 folders.	June 1984
C.1025	'12 November 1984. Salamander rod #1'.	November 1984
C.1026	'12 November 1984. Salamander rod 2'.	November 1984
C.1027	'6 December 1984. Salamander rod #1'.	December 1984
C.1028	'6 December 1984. Rod 2'.	December 1984
C.1029	'6 December 1984. Salamander rods 3 & 4. Not worth plotting'.	December 1984
C.1030-C.1031	'7 December 1984. Rod 1'. 2 folders.	December 1984
C.1032	'7 December 1984. Rod 2'.	December 1984
C.1033	'31 Jan 1985. Rods 1-3. Not much good'.	January 1985
C.1034	'31 Jan. 1985. Rod 4. Long exp't with various Na Li mixtures. Worth analysis. Oscillation weak flashes'.	January 1985

Research

C.1035-C.1043	Experiments on vision. Contents of a box. Manuscript and computer-generated experimental data. Titles of constituent files as follows:	June 1984
C.1035	'4 June 1984. Rods 1 & 2'.	June 1984
C.1036	'4 June 1984. Rod 3. Salamander'.	June 1984
C.1037	'4 June 1984. #4'.	June 1984
C.1038	'4 June 1984. Rod #5'.	June 1984
C.1039	'4 June 1984. Rod 6 (&7 no good)'.	June 1984
C.1040	'23 June 1984. Rod 1'.	June 1984
C.1041	'23 June 1984. Rod #2. Nice expt showing a dim flash has immediate effect in speeding closure by Ca pulse; effect of flash lasts less than 5-10 sec'.	June 1984
C.1042	'23 June 1984. Rod #3'.	June 1984
C.1043	'23 June 1984. Rod #4'.	June 1984
C.1044-C.1061	Experiments on vision. Contents of a box. Manuscript and computer-generated experimental data. Titles of constituent files as follows:	May- December 1984

Research

C.1044	'24 May 1984. Rods #1 - #3'.	May 1984
C.1045	'22 June 1984. Rod #1 (2 no good). Flashes & 1Ca pulses in 20 Na $1\mu\text{Ca}$ '.	June 1984
C.1046	'22 June 1984. Rod 3'. A photograph is included.	June 1984
C.1047	'22 June 1984. Rod 4 & 5 (no good?)'.	June 1984
C.1048	'18 Nov. 1984. Salamander rod #1. Not worth plotting'.	November 1984
C.1049	'18 Nov. 1984. Rod #2'.	November 1984
C.1050	'18 Nov. 1984. Salamander rod #3'.	November 1984
C.1051	'19 Nov. 1984. Not plotted - not v. good'.	November 1984
C.1052	'22 Nov. 1984. Nothing useful'.	November 1984
C.1053	'23 Nov. 1984. Salamander rod 1'.	November 1984
C.1054	'23 Nov. 1984. Salamander rod #2'.	November 1984
C.1055	'24 May 1984. Salamander #1, 2, 3. Poor'.	May 1984

Research

C.1056	'3 December 1984. Salamander rod #1. Not worth plotting. No repeat of flash alone after flash + pulse'.	December 1984
C.1057	'3 December 1984. Salamander rod #2'.	December 1984
C.1058	'4 December 1984. Salamander rod #2'.	December 1984
C.1059	'4 December 1984. Salamander rod #3'.	December 1984
C.1060	'5 December 1984. Rod #1. Not plotted - short, poor expt & no controls / returns'.	December 1984
C.1061	'5 December 1984. Rod #2'.	December 1984
C.1062-C.1080	Experiments on vision. This material was found in a box inscribed 'Expts 1984' but all relates to 1976 experiments. Photocopied manuscript experimental data. Not in Hodgkin's hand. Titles of constituent files as follows:	1976
C.1062	'March 18 1976. Red cone pair #2'.	March 1976
C.1063	'March 18 1976. Red cone #5 and green cone #[?]. Green cone #2 and green cone #1'.	March 1976
C.1064	'March 25 1976. Red cone pair #1'.	March 1976
C.1065	'April 1 1976. Red cone pair'.	April 1976

Research

C.1066	'April 6 1976. Red cone pair #1'.	April 1976
C.1067	'April 6 1976. Red-green cone pair. Not coupled'.	April 1976
C1068	'April 7 1976'.	April 1976
C.1069	'April 20 1976. Single red cone = spatial run'.	April 1976
C.1070	'April 21 1976. Red cones pair #2'.	April 1976
C.1071	'May 25, 26, 17 1976'.	May 1976
C.1072	'May 27 1976. Red cone #1, #2. Green cone #1 - two peaks in spatial profile'.	May 1976
C.1073	'May 31 1976. Pair #1 red cones'.	May 1976
C.1074	'June 2 1976. Pair #2. Red cones'.	June 1976
C.1075	'June 3 1976. Red cone pairs #1 - #4'.	June 1976
C.1076	'June 8 1976. Gain calibrations'.	June 1976
C.1077	'June 9 1976. Red cone pairs #1 - #4'.	June 1976
C.1078	'June 10 1976. Red cone pairs #1 and #2'.	June 1976
C.1079	'June 11 1976. Voltage and current calibrations'.	June 1976

Research

C.1080	Figures. Contents of a file.	1976
C.1081-C.1094	'Alphabetical sequence A-Z', contents of a box so inscribed. A piece of paper found in the box was inscribed thus: 'Dated files in this box filed behind 'Whittenberg' in alphabetical sequence. Part of pseudemys expts series?' Photocopied manuscript experimental data. Not in Hodgkin's hand. Contents of constituent files as follows:	1974-1976
C.1081	'March 1 1974. 3 cones (red). Int. series & Tung & Xenon flash. Cone #3. ERP & recovery after flash'.	March 1974
C.1082	'April 9 1974. Green cone: ΔI xenon. Red cone: 3 xenon flashes on -0.5 + 0 condit'.	April 1974
C.1083	'April 23 1974. 1) red cone - ΔI xenon. Bleaching & recovery of ERP'.	April 1974
C.1084	'May 7 1974. On-off ganglion cell - but run 12 (643). Bipolar cell; moving [?] 140u'.	May 1974
C.1085	'June 21 1974'.	June 1974
C.1086	'June 16 1976. Red cones #1 - #3, #5. Red green #4'.	June 1976
C.1087	'June 17 1976. Pair #1 red cones'.	June 1976
C.1088	'June 18 1976. #1 red cones. #2, #3 red-green. #4 - #6 red cones. #7 "red-green coupled cell" '.	June 1976

Research

C.1089	'July 29 1976. Red cones #1 - #3. Red-green cones #4'.	July 1976
C.1090	'July 30 1976'.	July 1976
C.1091	'August 2 1976. Green cone pair'.	August 1976
C.1092	'August 3 1976. Red cone pair'.	August 1976
C.1093	'August 4 1976. H cell pair coupled. Red cone pair #1 - #3. Red-green cone pair #4'.	August 1976
C.1094	'August 5 1976. Red-green pair #1. Red cone pairs #2 and #3'.	August 1976
C.1095-C.1105	<p>'Misc. experiments', contents of a box so inscribed'.</p> <p>The material appears to relate to experiments on vision.</p> <p>Much of the material is in Hodgkin's hand.</p> <p>The titles of constituent files (listed in the order in which found) are as follows:</p>	c.1972- c.1975, nd
C.1095	<p>'Notebook one. T. Lamb - computation. Stronger flashes'.</p> <p>Manuscript and computer-generated experimental data.</p>	c.1974
C.1096	<p>'Coupled curves. Jan. 1972 fig'.</p> <p>Photocopied manuscript theoretical notes.</p>	1972
C.1097	<p>'Misc theory. Retina - early on. Baylor theory. Turtle cones'.</p> <p>Manuscript theoretical notes etc.</p>	Nd

Research

C.1098	'Noise - ALH, Lamb'. Manuscript theoretical notes.	c.1975
C.1099	'Maths. Graphs with Baylor'. Manuscript data.	Nd
C.1100	'Computing tables (Hewlett-Packard)'. Manuscript data etc.	c.1972-1974
C.1101	'Graphs for fitting. Poisson curves etc'. Manuscript data.	c.1972-1974
C.1102	'EDSAC. Limulus. Sterne. Pulse with background. Manuscript data.	c.1972-1974
C.1103	'EDSAC equations'. Manuscript theoretical notes.	c.1972-1974
C.1104	'EDSAC. Sterne'. Manuscript notes in the hand of M.D. Sterne (his signature appears after some); data.	c.1972-1974
C.1105	'EDSAC plots'. Manuscript data.	c.1972-1974

Research

C.1106-C.1120	Miscellaneous files. Titles of files are given where found. The material appears to relate to experiments on vision. Some of the material is in Hodgkin's hand.	1981-1988, nd
C.1106	'Exp. of Jan. 81'. Manuscript theoretical notes and analysis. In Hodgkin's hand.	January 1981
C.1107	'Tracings'. Tracings of graphs <i>re</i> experiments.	1983
C.1108	'Extra results including IBMX'. Photocopied manuscript data.	1983
C.1109	'Trevor et al. Results'. Manuscript experimental data, some photocopied.	September- October 1984
C.1110	'Application of theory to expts. Computing: unit impulse. 4 Dec. 1984 #1. Na-Li. Baylor & Nunn's figs & ms'. Manuscript analytical notes and data.	December 1984
C.1111	'Fitting file. possible figures - see also large figs'. Tracings of graphs etc.	1985
C.1112	'TDL Program. DE's'. 2 buffer model. Fitting of j vs charge and j vs time curves'. Graph tracings and data.	1985

Research

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| C.1113 | 'Trevor Lamb's computation on IBM. Called ALH 1. 5 April 1988'.

Manuscript analytical notes in Hodgkin's hand. | April 1988 |
| C.1114 | 'April 1988. Oscillations. Immediate working'.

Equations in Hodgkin's hand. | April 1988 |
| C.1115 | Theory file 4. Square, cube or linear. Shape of flash response. See 2 Feb 1985 #3 analysis, 10 Oct 1986 #2 & #1 analysis. Summary file copied to Brian'.

Manuscript notes, chiefly on theory, in Hodgkin's hand. | c.1986 |
| C.1116 | 'Further simulations of ALH model 12 Apr 1988. ALH 2, ALH 3'.

Data, chiefly computer-printed. | April 1988 |
| C.1117 | 'Delay on [?inactivation]. [words illegible] And other recent theory'.

Manuscript theoretical notes and data in Hodgkin's hand. | Nd |
| C.1118 | 'AFH's suggestion for optical bench'.

1p manuscript diagrams. | Nd |
| C.1119 | 'Misc. physics', contents of a file so inscribed.

Manuscript theoretical notes. | Nd |
| C.1120 | Miscellaneous manuscript theoretical notes. | Nd |

Research

C.1121-C.1127	'Circuits'	1939-1960, nd
<p>Contents of a box so inscribed. The material appears to be chiefly c.1945 (from occasional dates on files or papers) and to relate to Hodgkin's work in designing electrical circuits. It appears to cover some of his later wartime work on airborne radar at the Telecommunications Research Establishment (TRE), 1940-1945, and work on the nerve impulse, which he resumed with A.F. Huxley in 1946. The few dates found inscribed on papers are usually post-June 1945, when he was discharged from the TRE. It is probable that some of the circuit diagrams represent Hodgkin's preparations for the resumption of the nerve impulse research (he and Huxley discussed their plans in the autumn of 1945).</p> <p>Titles on files are reproduced below.</p>		
C.1121	'1939 circuits'.	1939-c.1944
<p>Manuscript diagrams of electrical circuits with one letter (1944).</p>		
C.1122	'Electrical data'.	1944-1945, 1953
<p>Various papers <i>re</i> equipment for research at the TRE; a few later papers <i>re</i> electrical equipment.</p>		
C.1123	'Current circuits'.	1945-1949
<p>Manuscript diagrams of electrical circuits. The dates 'July 1945' and 'August 1945' are inscribed on a few papers. Included is a letter from A.F. Huxley to Hodgkin (June 1949) in which Huxley briefly reports on work at the M.B.A. Laboratory, Plymouth.</p>		
C.1124	'VX - 32B. Data etc'.	1948
<p>Brief correspondence etc <i>re</i> the purchase of vacuum tubes for Hodgkin's laboratory.</p>		

Research

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| C.1125 | 'Circuits - old'. | c.1945-1960 |
| | Rough manuscript diagrams, manuscript notes (some in a hand other than Hodgkin's) and typescript papers relating to electrical circuits; manuscript notes (not in Hodgkin's hand) on blood and other physiological topics; letter from R.H. Cook (Hodgkin's instrument maker at the Physiological Laboratory) to T. Shaw <i>re</i> electrical equipment (1960). | |
| C.1126 | Contents of an unmarked file. | Nd |
| | Manuscript data and notes <i>re</i> experiments (there is a reference to 'crab nerve' on one paper). | |
| C.1127 | Miscellaneous manuscript diagrams of electrical circuits. | Nd |
| | Mostly copies. | |