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The Peter J. Morgane Research Collection on the Cetacean Brain PJM

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Special Collections & Archives

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archives@une.edu

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Summary Information

Repository:	Special Collections & Archives
Title:	The Peter J. Morgane Research Collection on the Cetacean Brain, 1962-2010
ID:	PJM
Date [inclusive]:	1962-2004
Physical Description:	30 linear feet
Language of the Material:	English .

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Biographical / Historical

Dr. Peter J. Morgane was a neuroscientist who took a special interest in the neuroanatomy and function of the Cetacean brain. From 1962-2004 Dr. Morgane worked with colleagues performing experiments, analyzing and mapping the brain of the Cetacean. His aim was to create an Atlas of the Dolphin Brain. Although a complete atlas was not published, Morgane and his peers published many groundbreaking scientific papers on the various aspects and functions of the Cetacean brain. Morgane and his colleagues published groundbreaking scientific articles from 1967 to 2004 describing the neuroanatomy of the dolphin. Among many others Morgane worked with Patrick J. Hof, MD, FAAA, who holds the entire collection of dolphin brain tissue slides at the Icahn School of Medicine at Mount Sinai in New York, NY.

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Scope and Contents

This collection contains Dr. Morgane's and collaborator's work on the Cetacean brain. The project he led in the 1960's harvested and utilized numerous live dolphins. He conducted this unique original scientific research and experiments on those animals prior to the passage of the Marine Mammals Protection Act of 1972. Morgane and his colleagues continued to publish original scientific papers from this work through 2004.

The collection contains 27 boxes of glass and film slides, all of which have been digitized, thousands of photographic prints, X-rays, mounted photographic prints, photomicrographs, as well as manuscript papers, personal notebooks, Dr. Morgane's Master's and Doctoral theses, and hard copies of scientific papers. This collection encompasses Dr. Morgane's extensive work on the Cetacean brain. Within the slides and their digital images can occasionally be found some images from other experiments.

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Arrangement

The collection is organized into five series: 1) Manuscript, Personal Notebooks, Correspondence, Theses and CV's; 2) Original and Digital Versions of Glass and Film Slides 3) Prints and Negatives (Photographic, Photomicrographic and X-Ray Prints) 4) Mounted Prints and Original Mounted Artist's Diagrams; 5) Scientific Papers; Digital Files of Corresponding Figures. Arrangement noted within each series.

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Administrative Information

Publication Statement

Special Collections & Archives

University of New England
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Biddeford, Maine
archives@une.edu

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Related Materials

Related Materials

The brain tissue slides resulting from the Morgane project experimentation are available for research at the Neuroscience Laboratory of Patrick J. Hof, MD, FAAA, Icahn School of Medicine at Mount Sinai.

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Collection Inventory

Personal Notebooks, Manuscripts, Correspondence, Theses and CV's , 1967-2010 Scope and Contents This series contains Morgane's personal writings, correspondence, marked up manuscripts, original versions of his theses and hard copies of his C-V. Arranged by subject in original order.	Box 1	
	Box 2	
	Box 3	
Personal Notebooks including one titled "A Handbook of the Hypothalamus", 1979-2001 Scope and Contents Personal Notebooks chronologically arranged from 1979 to 2001.	Box 1	volume 1-53
Thesis: Northwestern University. Studies on the Functions of the Amygdaloid Nuclei in Cats... Master of Science, Department of Physiology. by Peter J. Morgane. Chicago, Illinois, May, 1957.	Box 3	Volume 54
Thesis: Northwestern University. A Dissertation Submitted to the Graduate School in Partial Fulfillment of the	Box 3	Volume 55

Requirements for the Degree of Doctor of Philosophy, Field of Physiology.

Correspondence and Manuscripts, C-V's, 1963-2010	Box 2	
	Box 3	
Morgane Curriculum Vitae, annotated	Box 2	Folder 1
Correspondence related to sectioning of 3 dolphin brains at Warren Anatomical Museum, Harvard University, 1963, Folder 1 of 4, 1963	Box 2	Folder 2
Correspondence related to sectioning of 3 dolphin brains at Warren Anatomical Museum, Harvard University, 1963, Folder 2 of 4, 1963	Box 2	Folder 3
Correspondence with lab personnel related to sectioning of 3 dolphin brains at Warren Anatomical Museum, Harvard University, 1963	Box 2	Folder 4
Communications Research Institute 8th Annual Report. Miami, Florida. 1966-1967. John Lilly	Box 2	Folder 5
Communications Research Institute - 1965-1966 Annual Report on the Anatomy, Physiology, Biophysics, and Psychology of the Sound Production of Tursiops Truncatus.	Box 2	Folder 6
New York whale brain equipment and material with Dr. Ilya Glezer-2001	Box 2	Folder 7
Patrick Hof - Ilya Glezer correspondence - 2001	Box 2	Folder 8
Pankskepp correspondence	Box 2	Folder 9
Correspondence 1971-1982	Box 2	Folder 10
Galler correspondence	Box 2	Folder 11
Correspondence regarding cetacean work	Box 2	Folder 12
Annotated photographs of dolphin experiment	Box 2	Folder 13
Supin, A. Ia., manuscripts and translations, 1970-1986 <u>Language of the Material:</u> Russian.	Box 2	Folder 14
Supin, A. Ia., manuscripts and translations, 1970-1986 <u>Language of the Material:</u> Russian.	Box 2	Folder 15
Supin et al, manuscripts on electrophysiological study of dolphin brain, 1972-1978 <u>Language of the Material:</u> Russian.	Box 2	Folder 16
Symposium - Sensory Systems and Behavior of Aquatic Mammals - Moscow, 1991. USSR Academy of Sciences, Severtsov Institute of Evolutionary Morphology and Ecology of Animals; Andreev Acoustical Institute	Box 2	Folder 17

Language of the Material: Russian.

University of New England donation correspondence, 2008-2009	Box 2	Folder 18
UNE research development	Box 2	Folder 19
Prudence Carter correspondence on artwork	Box 2	Folder 20
Exhibit posters, UNE, 2009-2010	Box 2	Folder 21
Kitai correspondence	Box 2	Folder 22
Hypothalamus books reviews - 1971	Box 2	Folder 23
Manuscript: The Raphe-Hippocampal Model System	Box 2	Folder 24
Hippocampal Model System notes, 1994-1998	Box 2	Folder 25
Hippocampal Model System notes	Box 2	Folder 26
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Notes on dolphin cortex	Box 2	Folder 28
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Hippocampal notes and drawings	Box 2	Folder 30
Hippocampal notes and drawings	Box 2	Folder 31
Limbic symposium notes - 2010	Box 2	Folder 32
Definition of Limbic Brain, 2006-2009	Box 2	Folder 33
Drafts of limbic drawings	Box 2	Folder 34
New limbic manuscript - Morgane and Mokler	Box 2	Folder 35
Welle Nauta annotated reprints and notes	Box 3	Folder 36
James Papez annotated reprints and notes	Box 3	Folder 37
Paul McLean annotated reprints and notes	Box 3	Folder 38
Paul McLean annotated reprints and notes	Box 3	Folder 39
Dolphin brain manuscripts, notes, figures	Box 3	Folder 40
Grant applications, dolphin cortex	Box 3	Folder 41
Reticular formation of dolphin - notes	Box 3	Folder 42
I. N. Filimonoff. manuscripts and translations	Box 3	Folder 43
<u>Language of the Material:</u> English.		
I. N. Filimonoff manuscripts and translations	Box 3	Folder 44
Yakovlev reprints, annotated	Box 3	Folder 45
Yakovlev reprints, annotated	Box 3	Folder 46
Yakovlev reprints, annotated	Box 3	Folder 47

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Morgane-Mokler review notes	Box 3	Folder 49
Limbic notes	Box 3	Folder 50
Habenula-Raphe notes	Box 3	Folder 51
Mokler-Morgane Raphe paper drafts	Box 3	Folder 52
Correspondence, 1971-2007	Box 3	Folder 53
Morgana-Mokler review draft material	Box 3	Folder 54
Model notes	Box 3	Folder 55

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Glass and Film Slides, Digital Copies of Glass and Film Slides

Scope and Contents

The 27 slide boxes contain glass and film slides used by Dr. Morgane for research, lectures and papers. They depict many subjects and activities such as: the procedures themselves, cetacean brain tissue, stereotaxy, various dissections, perfusions, examinations of the cortex, use of anesthesia, the cardiovascular system, brain surface features, paleocortex, histology, thalamus, fetal material, and others. Boxes and slides were numbered consecutively in the order in which they were originally arranged. Gaps in slide numbering reflect slides separated from the collection representing work unrelated to cetacean work.

From these slides, digital scans were created at 1200 dpi resolution. Digital versions are accessible. Excel spreadsheets were created, noting each individual slide, recording the set, box number, slide number, category of the image, activity, slide type and size; notes on the slide and box as well as anatomical structure, subject noted, animal type, dolphin number, related publication title and figure number or reference as well as a thumbnail of the image on the slide are included. Excel sheets are accessible online. A cetacean specific version of each spreadsheet was then made, allowing focus on Dr. Morgane's cetacean work.

For access to digital scans of slides, researchers may request a copy of the excel file describing them. By request you may receive a copy of the excel file that contains a thumbnail image of the original glass or film slide and in-depth descriptions of the content of each slide. The slides are identifiable via their four-digit catalog number in the excel file

Box 4

Box 5

Box 6

Box 7

Box 8

Box 9

Box 10

as well as written on the original slide. Arranged in original order with project supplied sequential catalog numbers.

Slide box 1 - pjms0001 - 0022 - brain slides - photographs (dolphin)	Box 4
Slide box 2 - pjms0023 - 0038 - fetal material	Box 4
Slide box 3 - pjms0088 - 0132 - dolphin surgery and perfusion - Expts. May 25 and June 1, 1967	Box 4
Slide box 4 - pjms0133 - 0156 - gross brain dissections - D. Leucas gross brain - P. Phocaena gross brain	Box 5
Slide box 5 - pjms0157 - 0187 - gross cetacean brains - Surface features - Sotalia surface - Physeter surface	Box 5
Slide box 6 - pjms0188 - 0204 - histology - paleocortex - Kruger thalamus	Box 5
Slide box 7 - pjms0205 - 0223 - Cetacea color brain slides - Golgi slides - gross cetacean brain dissections	Box 6
Slide box 8 - pjms0224 - 0287 - no notation	Box 6
Slide box 9 - pjms0288 - 0341 - Cetacea brain slides	Box 6
Slide box 10 - pjms0342 - 0416 - plastic sections	Box 7
Slide box 11 - pjms0417-0471 - Cetacea lectures	Box 7
Slide box 12 - pjms0472 - 502 - Tursiops surface unlabelled [sic]	Box 7
Slide box 13 - pjms0503 - 0518 - angiograms - dolphin cardiovascular system	Box 8
Slide box 14 - pjms0519 - 5946 - dolphin anesthesia [sic]	Box 8
Slide box 15 - pjms0547 - 0570 - dolphin cortex histology	Box 8
Slide box 16 - pjms0571 - 0596 - dolphin electrolytes and sleeve guide	Box 9
Slide box 17 - pjms0597 - 0651 - dolphin brain gross	Box 9
Slide box 19 - pjms0733 - 0850 - Dissections	Box 9
Slide box 20 - pjms0851 - 0903 - dolphin brain slides - skull - group great whale brain	Box 9
Slide box 21 - pjms0904 - 0978 - Remond - stereotaxy	Box 9
Slide box 22 - pjms1373 - 1493 - dolphin live & schemas - dolphin historical - limbic - insult - surface	Box 10
Slide box 23 - pjms1494 - 1589 - Phylogeny dolphin project	Box 10
Slice box 24 - pjms1647 - 1676 - LC / Raphe	Box 10
Slide box 25 - pjms1677 - 1746 - brain weight and growth - brain evolution - cortical areas evolution - whales and brain on microtome - extraverted neurons	Box 10

Slide box 26 - pjms2179 - 2305 - E.M. dolphin cortex - DEATH	Box 10
Slide box 27 - pjs2524 - 2560 - archicortex - hippocampus	Box 10

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Prints and Negatives Prints and Negatives: Unmounted Photographs, Photomicrographs, Angiograms, X-rays) Scope and Contents Photographic prints document almost every aspect of the cetacean brain work that was done documenting procedures, equipment, and staff of the dolphin project. They include hundreds of photographs of tissue slides created from the harvested Cetacean brains; and photomicrographs of brain tissue. The contents are separated into Photographs and Mounted Prints. The Photographs/Prints were then arranged by size: 11x14", 8x10", 16x20" and Other; then by subject within their size.	Box 11
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	Box 14
	Box 15
	Box 16
	Box 16
	Box 17
	Box 18
	Box 19
	Box 20
	Box 21
	Box 22
	Box 23
	Box 24
	Box 25
	Box 26
	Box 27
Photomicrographs Arranged by originally annotated date and field number, then by test number, then by 4-digit catalog number. Scope and Contents Box 11 contains items mainly from February 7, 1968	Box 11
Photomicrographs Arranged by originally annotated date and field number, then by test number, then by 4-digit catalog number.	Box 12

Scope and Contents

Box 12 contains items from March 29, 1965 and later photomicrographs.

Photomicrographs Arranged by originally annotated date and field number, then by test number, then by 4-digit catalog number.

Box 13

Scope and Contents

Box 13 contains items from March 1, 1965 to April 2, 1965 plus a few undated.

Whole Brain Dissections Species B. Physalis, D. Leucas, H. Sapiens, Inia

Box 14

Whole Brain Dissections Species: O. Orca, P. Catodan, P. Phocaena, T. Truncatus

Box 15

Dolphin Brain Tissue Slides Numbers 0100 - 0995

Box 16

Dolphin Brain Tissue Slides Numbers 1000-1399

Box 17

Dolphin Brain Tissue Slides Numbers 1400-1795

Box 18

Dolphin Brain Tissue Slides Numbers 1805-2395

Box 19

Dolphin Brain Tissue Slides Numbers 2400-3615

Box 20

Dolphin Brain Tissue Slides, Dolphin #3, unstained, 16" x 20" print numbers 1265-2055

Box 21

Dolphin Brain Tissue Slides, Dolphin #3, unstained, 16" x 20" print numbers 2065-2735

Box 22

Photos (8" x 10") with Negatives Categorized by subject: angiograms, diagrams, experiment, mixed, photomicrograph, tissue slides, ventricles, whole brain, whole brain diagrams, whole brain dissections, X-rays. Some negatives have prints, some do not.	Box 23	
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	Angiograms	Folder 3
	Angiograms	Folder 4
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	Data/chart	Folder 6
	Diagram/illustration	Folder 7
	Diagram/illustration	Folder 8
	Experiment. May 25, 1967	Folder 9
	Scientists. Yakovlev?	Folder 10
	Photomicrographs	Folder 11
	Photomicrographs	Folder 12
	Photomicrographs	Folder 13
	Tissue slides	Folder 14
	Tissue slides	Folder 15
	Ventricles	Folder 16
	Whole brain	Folder 17
	Whole brain	Folder 18
	Whole brain	Folder 19
	Whole brain	Folder 20
	Whole brain	Folder 21
	Whole brain	Folder 22
	Whole brain	Folder 23
	Whole brain dissection	Folder 24
	Whole brain dissection with negative	Folder 25

Negatives, dolphin project, large and small sizes	Box 24	
Photographs, 8" x 10" arranged by category	Box 25	
Photos: draft/partial diagrams	Box 25	Folder 1
Equipment	Box 25	Folder 2
Tissue slide/spinal chord diagrams	Box 25	Folder 4
Rhinc lobe illustration	Box 25	Folder 5
Supralimbic illustration	Box 25	Folder 6
Archicortical zone illustration	Box 25	Folder 7
Miscellaneous illustrations	Box 25	Folder 8
Comparative diagrams	Box 25	Folder 9
Dolphin cross-section diagram	Box 25	Folder 10
Data diagrams	Box 25	Folder 11
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Data diagrams	Box 25	Folder 13
Data diagrams	Box 25	Folder 14
Mixed draft diagrams	Box 25	Folder 15
Mixed draft diagrams	Box 25	Folder 16
Mixed draft diagrams	Box 25	Folder 17
Mixed draft diagrams	Box 25	Folder 18
Brain diagrams	Box 25	Folder 19
Brain diagrams	Box 25	Folder 20
Mixed draft diagrams	Box 25	Folder 21
Comparative brain diagrams	Box 25	Folder 22
Miscellaneous diagrams	Box 25	Folder 24
Comparative brain diagrams	Box 25	Folder 23
Brain and dolphin illustrations	Box 25	Folder 25
Pig brain illustrations	Box 25	Folder 26
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Skull diagram	Box 25	Folder 28
Miscellaneous diagrams	Box 25	Folder 29

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Skeletal diagrams	Box 25	Folder 32
Skeletal diagram	Box 25	Folder 33
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Project photos	Box 25	Folder 36
Project photos	Box 25	Folder 37
Project photos	Box 25	Folder 38
Project photos	Box 25	Folder 39
Project photos	Box 25	Folder 40
Project photos	Box 25	Folder 41
Project photos	Box 25	Folder 42
Project photos	Box 25	Folder 43
Project photos	Box 25	Folder 44
Project photos	Box 25	Folder 45
Project photos	Box 25	Folder 46
Project photos	Box 25	Folder 47
Project photos	Box 25	Folder 48
Project photos	Box 25	Folder 49
Project photos	Box 25	Folder 50
Project photos	Box 25	Folder 52
Project photos	Box 25	Folder 53
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Fetal dolphins	Box 25	Folder 55
Skull and skeletal	Box 25	Folder 56
Skull and skeletal	Box 25	Folder 57
Skull and skeletal	Box 25	Folder 58
Skull and skeletal	Box 25	Folder 59
Skull and skeletal	Box 25	Folder 60
Whole brain	Box 25	Folder 61
Whole brain	Box 25	Folder 62

Whole brain	Box 25	Folder 63
Whole brain	Box 25	Folder 64
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Large photographs, diagrams and illustrations, non-cetacean species	Box 26	
Blood Supply Paper Plates	Box 27	

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Mounted and Annotated Prints and Original Mounted Artists' Diagrams	Box 28
Scope and Contents	Box 29
Mounted prints and diagrams annotated by project scientists represent the focus of the cetacean project work: creating images and figures that illustrate concepts and structures discussed in various published scientific papers. A project artist, Marcelino Obaya created the artwork overlaid on images taken from print images. Many are marked "Yakovlev" for project contributor Paul Ivan Yakovlev (1894-1983), curator of the Warren Anatomical Museum, and professor at Harvard Medical School.	Box 30
Mounted Project Photos	Box 28
Large Mounted Diagrams and Illustrations	Box 29
Brain Atlas Sample Plates, 1967	Box 30

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Scientific Papers, including papers by Morgane and others, 1951-1995	Box 31A
<u>Physical Description</u> : 7.5 linear feet 5 boxes	Box 31B
Scope and Contents	Box 32
Print copies of Dr. Morgane's published works pertaining to cetaceans. Select print copies of other scientific papers published by Dr. Morgane from 1951 – 1990, including correspondence relevant to the publication. The other portion of this series is comprised of scientific papers pertaining to	Box 33
	Box 34
	Box 35

cetaceans written by other authors held and often annotated by Morgane. This portion of the series is arranged by the author's last name. Figures from published papers have been reproduced and printed out in a binder on site.

Scientific papers by Morgane on cetaceans chronologically, 1964-1979

Box 31A

1964	Box 31A	Folder 1
1965	Box 31A	Folder 2
1966	Box 31A	Folder 3
1967	Box 31A	Folder 4
1968	Box 31A	Folder 5
1969	Box 31A	Folder 6
1971	Box 31A	Folder 7
1972	Box 31A	Folder 8
1974	Box 31A	Folder 9
1975	Box 31A	Folder 10
1979	Box 31A	Folder 11

Scientific papers by Morgane on cetaceans chronologically, 1980-1998

Box 31B

1980	Box 31B	Folder 12
1982	Box 31B	Folder 13
1984	Box 31B	Folder 14
1985	Box 31B	Folder 15
1986	Box 31B	Folder 16
1987	Box 31B	Folder 17
1988	Box 31B	Folder 18
1990	Box 31B	Folder 19
1992	Box 31B	Folder 20
1993	Box 31B	Folder 21
1995	Box 31B	Folder 22
1998	Box 31B	Folder 23

Scientific papers published by Dr. Morgane from 1951-1990 on subjects other than cetaceans.		Box 32
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1960	Box 32	Folder 27
1961	Box 32	Folder 28
1962	Box 32	Folder 29
1963	Box 32	Folder 30
1964	Box 32	Folder 31
1966	Box 32	Folder 32
1967	Box 32	Folder 33
1968	Box 32	Folder 34
1969	Box 32	Folder 35
1970	Box 32	Folder 36
1971	Box 32	Folder 37
1972	Box 32	Folder 38
1973	Box 32	Folder 39
1974	Box 32	Folder 40
1975	Box 32	Folder 41
1976	Box 32	Folder 42
1977	Box 32	Folder 43
1978	Box 32	Folder 44
1979	Box 32	Folder 45
1980	Box 32	Folder 46
1981	Box 32	Folder 47
1982	Box 32	Folder 48
1983	Box 32	Folder 49
1984	Box 32	Folder 50
1985	Box 32	Folder 51
1986	Box 32	Folder 52

1987	Box 32	Folder 53
1988	Box 32	Folder 54
1989	Box 32	Folder 55
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Addison, W.H.F.	Box 33	Folder 58
Ades, H.W.	Box 33	Folder 59
Allen, H.	Box 33	Folder 60
Andrews, R.C.	Box 33	Folder 61
Anonymous	Box 33	Folder 62
Anthony, M.R.	Box 33	Folder 63
Arpino, G.	Box 33	Folder 64
Beauregard, D.H.	Box 33	Folder 65
Barnes, L.G.	Box 33	Folder 66
Belekhova, M.G.	Box 33	Folder 67
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Bonnet, A.	Box 33	Folder 69
Breathnach, A.S.	Box 33	Folder 70
Brunner, H.	Box 33	Folder 71
Handbook of R.H. Burn's Cetacean Dissections by F.C. Fraser- John Lilly's copy	Box 33	Folder 72
Carte, A.	Box 33	Folder 73
Cuello, A.C.	Box 33	Folder 74
Cunningham, D.J.	Box 33	Folder 75
Dawson, W.	Box 33	Folder 76
Dow, R.S.	Box 33	Folder 77
Drager, G.A.	Box 33	Folder 78
Duffield, D.	Box 33	Folder 79
Edinger, T.	Box 33	Folder 80
Eiseley, L.	Box 33	Folder 81
Elias, H.	Box 33	Folder 82

Falk, D.	Box 33	Folder 83
Filiminoff, I.N.	Box 33	Folder 84
Flanigan, N.J.	Box 33	Folder 85
Flower, W.H.	Box 33	Folder 86
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Fraser, F.C.	Box 33	Folder 88
Friant, M.	Box 33	Folder 89
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Jansen, J.	Box 34	Folder 120
Jacobs, M.S.	Box 34	Folder 121
Kankeleit, O.	Box 34	Folder 122
Kappers, C.U.	Box 34	Folder 123
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Morest Golgi Map	Box 34	Folder 144

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