

Karl M. Waage Archives

IPAR.001198



Samantha Murphy

2014

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Collection Overview

REPOSITORY: Yale Peabody Museum of Natural History
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CALL NUMBER: IPAR.001198

CREATOR: Waage, Karl Mensch

TITLE: Karl M. Waage Archives

DATES: 1915-1999

PHYSICAL DESCRIPTION: 15 linear feet

LANGUAGE: In English.

SUMMARY: The archives of Karl M. Waage encompassing his career at Yale. These include annotated maps, field notebooks, photographs, correspondence, and biographical material.

ONLINE FINDING AID: To cite or bookmark this finding aid, please use the following link: <https://hdl.handle.net/10079/fa/ypm.ipar.001198>

Administrative Information

Cite As

Karl M. Waage Archives, Invertebrate Paleontology, Yale Peabody Museum

Biographical Sketch

Karl M. Waage was born December 15, 1915, in Philadelphia, Pennsylvania. Influenced early on by an amateur rock and mineral collector, he entered Princeton University in 1935 with an interest in geology. Having been introduced to the geology of the American West by Erling Dorf, Waage's senior thesis was on the stratigraphy of the Upper Cretaceous Fox Hills Formation in the Lance Creek area of Wyoming.

Waage earned his Ph.D. from Princeton in 1946, with a dissertation on the refractory clays of the Lower Cretaceous Dakota Group of the Colorado Front Range. Hired that year by Yale University, he extended his work on the Dakota Group, clarifying its relationship to the underlying Morrison Formation, drawing attention to the importance of regional unconformities that represented significant time hiatuses, revising its stratigraphy, and providing an interpretation of its depositional environment.

In the mid-1950s, Waage refocused his attention on the Fox Hills Formation in its type area in South Dakota. His enthusiasm for this subject was to mark his research for the rest of his career. His field studies culminated in a 1968 monograph, *The Type Fox Hills Formation, Cretaceous (Maestrichtian), South Dakota* (Bulletin of the Peabody Museum of Natural History 27), describing the facies relationships, lithologic units, and molluscan zonation. He showed that this formation represented a transition from the environment of

a clastic barrier shelf through that of the shoreface of a barrier bar complex during the final retreat of the Late Cretaceous sea.

This work set a standard for paleoenvironmental studies at a time when such studies were first gaining prominence. From the large, well-documented collections amassed during many field seasons, Waage, with his student Neil Landman, produced a monograph on the systematics, life history and distribution of the beautifully preserved scaphited ammonites.

Waage was Director of the Yale Peabody Museum from 1979 through 1982. He and Carl Dunbar wrote a textbook on historical geology, continuing a tradition begun by Charles Schuchert. Retiring in 1986, he wrote several more papers on scaphites and, in 1999, just before his death, co-authored a final manuscript on Holocene fossils from West Haven, Connecticut, a project he had begun 30 years earlier.

Description of the Material

Includes topographic maps (Colorado, Connecticut, New York, North Dakota, South Dakota, Wyoming) and other maps (North Dakota, South Dakota, Utah, Wyoming). Also includes field notebooks (Colorado, Maryland, New Jersey, New Mexico, North Dakota, South Dakota, Utah, Wyoming).

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Topographic map. Cannon Ball NW, ND 7.5 Quad (1 : 24000). U.S. Geological Survey: Topographic. 001904	1968
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County map. Butte Co (S half) (1 : 140800). South Dakota Highway Department: Highway. 002175	1957
County map. Type area of Fox Hills Fm; Locality Key (1 : 253440). South Dakota Highway Department: Highway. 001856	1963
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Topographic map. Carlile, WY 7.5 Quad. (1 : 24000). U.S. Geological Survey: Topographic. [Volume=Preliminary Edition] 002180	1954
Topographic map. Storm Hill, WY 7.5 Quad. (1 : 24000). U.S. Geological Survey: Topographic. [Volume=Preliminary Edition] 002181	1954
Topographic map. Devils Tower 1 SE, WY 7.5 Quad. (1 : 24000). U.S. Geological Survey: Topographic. [Volume=Advance Proof] 002183	1954
Topographic map. Aladdin 2 SW, WY 7.5 Quad. (1 : 24000). U.S. Geological Survey: Topographic. [Volume=Advance Proof] 002184	1954
Topographic map. Aladdin 3 NE, WY 7.5 Quad. (1 : 24000). U.S. Geological Survey: Topographic. [Volume=Advance Proof] 002185	1954
Topographic map. Mule Creek, WY 7.5 Quad. (1 : 24000). U.S. Geological Survey: Topographic. 001937	1978
Topographic map. Funny Rock, WY 7.5 Quad. (1 : 24000). U.S. Geological Survey: Topographic. 001936	1981
Topographic map. Rabbit Mountains, WY 7.5 Quad. (1 : 24000). U.S. Geological Survey: Topographic. 001939	1981
Topographic map. Redbird, WY 7.5 Quad. (1 : 24000). U.S. Geological Survey: Topographic. 001940	1981

Series II: Field Notebooks, 1938-1983

1938-1950.

001211

Field notes. Field notebook for Fox Hills Fm, Lance Creek area, senior thesis for Princeton University: Wyoming. 000340	1938
Field notes. Field notebook for Fox Hills Fm, Lance Creek area, senior thesis for Princeton University: Wyoming. 000341	1938
Field notes. Field notebook for Fox Hills Fm, Lance Creek area, senior thesis for Princeton University: Wyoming. 000342	1938
Field notes. Locality information in K.M. Waage Princeton senior thesis, and Erling Dorf Lance Fm publication: Wyoming. 000343	1938
Locality information. Field notebook #1: Maryland (Castleman Basin - Georges Basin). 1945-1948 000511	1945
Notebook. Field notebook, type Fox Hills Fm: South Dakota. 000287	1940
Notebook. Field notebook: South Dakota, North Dakota. 000288	1941
Notebook. Field notebook #2: Maryland (Castleman Basin - Georges Basin). 1945-1948 000512	1945
Notebook. Field notebook #1: Maryland (Castleman Basin - Georges Basin). 1945-1948 000513	1945
Notebook. Field notebook #2: Maryland (Castleman Basin - Georges Basin). 1945-1948 000514	1945
Notebook. Field notebook #3: Maryland (Castleman Basin - Georges Basin). 1945-1948 000515	1945
Notebook. Field notebook: Maryland (Castleman Basin - Georges Basin). 1945-1948 000516	1945
Notebook. Field notebook: Maryland (Castleman Basin - Georges Basin). 1945-1948 000517	1945
Notebook. Field notebook: Maryland (Castleman Basin - Georges Basin). 1945-1948 000518	1945
Notebook. Field notebook: and maps, sections, and letters; Maryland (Castleman Basin - Georges Basin). 1945-1948 000519	1945

001211 1938-1950. (continued)

Notebook. Field notes: Utah. 000206	1947
1951-1960. 001212	
Field notes. Field notebook #3: Colorado. 000474	1951
Field notes. Field notebook #4: Colorado. 000475	1951
Field notes. Field notebook #6: Colorado. 000477	1952
Field notes. Field notebook #7: Colorado. 000478	1952
Field notes. Field notebook #misc.: Colorado. 000480	1952
Field notes. Field notebook #1: Colorado. 000464	1955
Field notes. Field notebook #2: Colorado, Wyoming. 000465	1955
Field notes. Field notebook #3: Wyoming. 000466	1955
Field notes. Field notebook #5: Wyoming. 000468	1955
Notebook. Field notebook: Iowa 000463	1951
Notebook. Field notebook #1: Colorado. 000472	1951
Notebook. Field notebook #2: Colorado. 000473	1951
Notebook. Field notebook #5: Colorado. 000476	1952
Notebook. Field notebook #8: Colorado. 000479	1952
Notebook. Field Notes of KMW (1952 trip with Dunbar), & later guidebooks, sections and maps; New York 000726	1952
Notebook. Field journal and log: Colorado, Wyoming 000447	1955
Notebook. Field notebook #4: Wyoming, South Dakota. 000467	1955

001212 1951-1960. (continued)

Notebook. Field notebook #1: South Dakota, Wyoming. 000278	1956
Notebook. Field journal and log: Colorado, Wyoming, South Dakota, North Dakota. 000448	1956
Notebook. Field notebook #2: Wyoming. 000469	1956
Notebook. Field notebook #3: Wyoming, South Dakota. 000470	1956
Notebook. Field notebook #4: South Dakota. 000471	1956
Notebook. Field notebook: South Dakota, Wyoming, North Dakota. 000279	1957
Notebook. Field notebook: South Dakota. 000280	1957
Notebook. Field notebook: South Dakota, Canada, Nebraska. 000281	1959
Notebook. Field notebook: South Dakota, North Dakota. 000282	1959
Notebook. Field journal and log: South Dakota. 000449	1959
Notebook. Field notes: New Jersey. 000212	1960
Papers, notes, correspondence. Correspondence, memo's and notes (2 folders) from K.M. Waage, A.L. McAlester, J.H. Ostrom et al. about paleontology program at Yale, its facilities and personel. 1960-1964 000713	1960
1961-1970. 001213	
Field notes. Field journal and log: South Dakota, Wyoming. 000450	1961
Locality information. Field journal and log: South Dakota, Wyoming. 1971; 1974; 1976; 1977 000455	1971
Notebook. Field notebook: South Dakota, Wyoming. 000283	1961
Notebook. Field notebook: South Dakota, North Dakota. 000284	1962
Notebook. Field journal and log: South Dakota, North Dakota. 000451	1962
Notebook. Field notebook: South Dakota. 000285	1964

001213 1961-1970. (continued)

Notebook. Field journal and log: South Dakota. 000452	1964
Notebook. Field journal and log: South Dakota, Wyoming. 000453	1966
Notebook. Field notebook: South Dakota, Colorado, Wyoming. 000286	1967
Notebook. Field journal and log: South Dakota; Colorado; 000454	1967
Notebook. Field notebook: Colorado, New Mexico. 000510	1968
1971-1983. 001214	
Field notes. Field journal and log: South Dakota; Wyoming. 1978; 1981; 1982 000456	1978
Field notes. Field notebook: South Dakota, Wyoming. 000436	1981
Field notes. Field notebook: South Dakota, Wyoming. 1983, 1985, 1988 000301	1983
Notebook. Field notebook for Fox Hills Fm, Lance Creek - Redbird area: Wyoming; South Dakota. 000177	1971
Notebook. field journal and log: South Dakota, Wyoming. 1983; 1985; 1988 000457	1983

Series III: Correspondence

Correspondence, notes & memos.

Correspondence.

001215

Papers, notes, correspondence. Correspondence pertaining to KMW project on Fox Hills otolith collection (Vorhisia). 1962-1978
000677

Papers, notes, correspondence. Correspondence between F.M. Fryxell and J.V. Howell pertaining to Hayden and Meek localities and unrecognized place names.
ca 1962
000678

Papers, notes, correspondence. correspondence (letters) of Karl M. Waage, from about 1947 through about 1986. stored in 2 boxes -- A-L & M-Z.
000958

Waage correspondence related to graduate students
002703

Letters, Notes & Memos.

001216

Papers, notes, correspondence. notes and letters and reports; Pennsylvanian alumina clays, Clinton Co, Pennsylvania
000855

Papers, notes, correspondence. Late Cretaceous squid (Coleoidea; teuthoid; Actinosepia) project started by KMW but not completed; list of specimens, lending institutions, letters, reprints, & KMW notes, photos & negatives.
000735

Series IV: Photographs

Photographs, negatives. slides & drawings.

Localities. Photographs, slides, & drawings of localities.

001217

Photographs & Negatives. about 250 color 35 mm slides; Early Cretaceous "Dakota Grp" stratigraphy, Front Range, Colorado, Wyoming, Black Hills, South Dakota, and other strat. slides; several include shots of K.M.W.; many are originals of photos in publications (IP reprints 5026, 5027, 5061, 5062). Donated by Elizabeth Waage, July 18, 2001. 1951-1956

000752

Photographs & Negatives. Black & White negatives & photos, Dakota Grp stratigraphy, Colorado, Wyoming, some published.

000724

Photographs & Negatives. 4x5 Black & White photos of IP collection storage and work areas for several IP collection and facilities grants. 1960-1970

000715

Photographs & Negatives. Black & white photographs & negatives & color slides of localities, field work done on Fox Hills in South Dakota & Wyoming. Hickey.

1961-1985

000743

Photographs. Photo and negative of field assistant with bra painted on him; sent to U.S.G.S. when they rejected nude-upper-body photo (also enclosed) for publication in Waage's Bull. 1102, Stratig. and refractory clayrocks of Dakota Grp... Colorado, plate 5; (reprint # IP.R.05027).

000718

Photographs. color slides taken in 1961 by Leo J. Hickey, with list of slides and their field locations plotted on maps; Fox Hills Fm, S. & N. Dakota, Wyoming; photocopy of LH 1961 field notebook.

000971

Specimens. Photographs & Slides of specimens.

001218

Drawing. Original drawing by Carl Wester for illustration in "The Late Cretaceous coleoid cephalopod *Actinosepia canadensis* Whiteaves." YPM Postilla, n. 94.

000733

Photographs & Negatives. 8 x 10 black and white print of YPM 1002, *Dunbaria fascipennis* Tillyard (partype). Replacement photo for Dunbar and Waage (Historical Geology, 3rd ed.) 8 x 10 black and white print. ca 1960

000546

Photographs & Negatives. Black and white negatives and prints of Cretaceous ammonites (mostly scaphites) & other inverts & plants & concs. & lith structures; including the Yale and Princeton collections; for Jeletzky & Waage, 1978, Waage, 1968, & Landman & Waage, 1993; some U.S.G.S.; includes types of Meek, Owen, Mikhailov, Geol. Surv. Canada, Acad. Nat. Sci. Phil. black and white negatives and prints. 1960-1990

000612

001218 Specimens. Photographs & Slides of specimens. (continued)

Photographs & Negatives. Black and white prints and negatives of various geological phenomena and fossils used for K.M. Waages historical geology textbook. Black and white prints and negatives. ca 1960 000620	1960
Photographs & Negatives. Black and white negatives and prints of Cretaceous coleoids(Actinosepia) Black and white negatives and prints 000611	1965
Photographs & Negatives. Black and White negatives & prints of Precambrian Ediacara (Australia) fauna for K.M. Waage's historical geology textbook 000676	1997
Photographs & Negatives. Photographs and negatives related to paper "Post-glacial fossils from Long Island Sound off West Haven, Connecticut" (YPM Postilla 225). 000717	1999
Photographs & Negatives. YPM 36058, Placenticerias whitfieldi. mososaur; limpet, 4x5 negative and six 8x10 black and white prints 000547	
Suite of ammonites (Scaphitidae and Sphenodiscus) from Fox Hills Fm showing brilliant nacreous color; 1 drawer's worth. 000720	1999

Series V: Miscellaneous

Biographical Material.

001221

Information on portrait (painting) of K.M. Waage painted by R.F. Zallinger; Based on two slides [one of KMW by Leo Hickey, 1961, as Waage's field asst.] 1986
000722

Memorial Service, Mar. 17, 2000 for KMW and statements by N. Landman, C. MacClintock, R.K. Bambach, Jeffrey Waage, Jonathan Waage, Ian Speden. Mem.Serv. for EKW on Nov. 21, 2006; biffle definition 2000
000725

Locality Information.

001219

Field notes. locality information & color slides: Wyoming (Lance Creek-Redbird area). 1938 - 1985 1938
000419

Locality information. locality information: Colorado (Rock Creek Area); Utah (Logan Quad). 1949
000502

Locality information. locality information with maps & color slides: Cretaceous, Iowa. 1951
000500

Locality information. locality information; Colorado; type Greenhorn Fm 1951
000503

Locality information. Locality descriptions, quad index maps, columnar sections, scaphite species ranges, field work done on Fox Hills & Pierre in South Dakota and North Dakota, 1941-1985. includes gift to Princeton (probably returned to Yale) 1956
1956-1985
000418

Locality information. 1943-1957 archive, documents and locality maps, Early Cretaceous Dakokta Group & Inyan Kara Group, Colorado, Wyoming, South Dakota 1956
000870

Locality information. Catalog of localities: Cretaceous, Tertiary, Cenozoic, New Jersey; 1957 & 1960 field Guidebooks 1960
000210

Locality information. locality information (guidebook & road maps): Cretaceous, New Jersey. 1961
000501

Locality information. Locality information, Fox Hills Fm, Creighton, South Dakota 1961
000734

Locality information. Upper Cretaceous Stratigraphy, Paleontology, and Paleoeology of Western Kansas: A Field Conference Guidebook: Kansas. 1965
000332

001219 Locality Information. (continued)

Locality information. Locality info., Radiocarbon dates (Stuiver), X-ray (Berner), petrographic, Speden, Vesper, USACE, maps, Mailing list; Prospect Beach, West Haven, Connecticut, Holocene. 1968, 1999 000358	1968
Eocene bauxite and clay deposits in northeastern Alabama; final report, loc info, sections, letters 000854	1943
Miscellaneous. 001222	
Refs. used for MS of paper on post-glacial concs.; 2 Zip discs of Postilla 225; Connecticut (West Haven, East Haven, Milford); Massachusetts (Cape Cod). 1968, 1999 000742	1968
Specimen Information. Specimen information including catalogs, original labels, & measurements. 001220	
Survey of Storage for Invertebrate Paleontological Collections, March, 1947, by Karl M. Waage. 000714	1947
Measurements of scaphitid ammonoids (Discoscaphites) from Cretaceous Fox Hills Fm., South Dakota; and Prairie Bluff, Owl Creek. 1980 +/- 000770	1980
Specimen info. (Fox Hills Fm Scaphitids); YPM # assign. 000520	1995
Measurements of scaphitid ammonoids from Cretaceous Fox Hills Fm., South Dakota, North Dakota, Wyoming 000521	1995
Original specimen labels & blue removal cards for Fox Hills mollusks, South Dakota 000645	1995
Rm. 8 Collection Surveys; 1. Cretaceous unit colls. 2. Mesozoic and Cenozoic coll. num. data. 3. Drawer lists - 1970 survey. 000359	

Selected Search Terms

The following terms have been used to index the description of this collection. They are grouped by name of person or organization, by subject or location, and by occupation and listed alphabetically therein.

Geographic Names

Connecticut
North Dakota
South Dakota
USA

Genres / Formats

Correspondence
Field notebooks
Maps
Photographs

Corporate Bodies

Yale Peabody Museum
Yale University