



Smithsonian

National Air and Space Museum

Philip Van Horn (P. V. H.) Weems Papers

Mark Kahn

2019

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Collection Overview

Repository:	National Air and Space Museum Archives
Title:	Philip Van Horn (P. V. H.) Weems Papers
Date:	circa 1905-circa 2005
Identifier:	NASM.2012.0052
Creator:	Weems, Philip Van Horn (P. V. H.)
Extent:	101.81 Cubic feet (209 boxes)
Language:	The majority of this collection is English. However, there is a small amount of material in Italian, Spanish, French and German.
Summary:	The Philip Van Horn (P. V. H.) Weems Papers contain 79 cu. ft. of materials related to his life and career.

Administrative Information

Acquisition Information

Thackray Seznec, Gift, 2012

Processing Information

Arranged, described and encoded by Mark Kahn, 2019.

Preferred Citation

Philip Van Horn (P. V. H.) Weems Papers, Accession 2012.0052, National Air and Space Museum, Smithsonian Institution.

Restrictions

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Biographical / Historical

Philip Van Horn (P.V.H.) Weems was born on March 29, 1889, on a farm in Tennessee. By age 13, both of Weems' parents died, leaving him and his six siblings to run the family farm with a minimum of help from adult neighbors. In spite of a poor primary education, Weems was able to secure admission into the U.S. Naval Academy in Annapolis, Maryland in 1908. Academically, he performed at a slightly above average grade level but excelled in athletics, being on the varsity crew, football and wrestling teams. Upon graduation from the Naval Academy in 1912, Weems started his sea duty aboard the USS North Dakota. Following that assignment, he served aboard the survey vessel Leonidas, Nevada and Georgia. During World War I, Weems acted as chief engineer for the troop transport Orizaba (for which he received the

Navy Commendation Medal for his excellent service aboard this ship). After the war, he served aboard the destroyers Murray and O'Brien. Weems' sea duty aboard the latter vessel proved significant as the O'Brien was employed by the Navy as a picket ship for the first trans-Atlantic flight by the Curtiss NC-4 flying boat in 1919. During this major achievement in aviation, he served as ship's executive officer and thus, began his long association with aerial navigation.

As Weems' naval career advanced, so too did other aspects of his life. In 1915, he married Margaret Thackray. This marriage would prove durable as it would last until his death over 60 years later. Additionally, three children resulted from this union: Philip, Jr. (born in 1916), Margaret (born in 1919), and George (born in 1921). Eventually, both sons followed their father into military careers with the older of the two serving with the U.S. Marine Corps while the younger one made his career with the Navy. Another aspect of Weems' personal life was his great athletic prowess. During his days at the U.S. Naval Academy in Annapolis, he was an All-American center for the football team, as well as an outstanding wrestler, being awarded the Athletic Association's Sword for excellence in athletics upon graduation. After graduation, and for years thereafter, Weems continued on as a competitive athlete. In 1920, he was a member of the U.S. Olympic wrestling team that traveled to Antwerp, Belgium. Five years later, at age 36, he won the U.S. Navy's South Atlantic light-heavyweight wrestling championship. Even 30 years later, Weems would still challenge varsity wrestlers at the Naval Academy gymnasium.

By the end of World War I, Weems had been promoted to Lieutenant Commander. From 1922-24, he served as navigator aboard the USS Rochester. It was during this tour of duty that he started in earnest to study the field of navigation. Such efforts included not only marine but also aerial navigation techniques and practices. He further honed his knowledge and skills on this subject by acting as an instructor of navigation at the Naval Academy from 1925-26.

During this time as an instructor at Annapolis, Weems came across a set of Japanese navigational tables. With assistance from a fellow naval officer, Weems greatly improved upon this innovative yet incomplete method of navigation. Upon receiving permission from the original author in Japan, he eventually published this new version of these navigational tables in conjunction with the Naval Institute. This work, called the Line of Position Book, proved very popular and promptly sold out within a matter of months. Thus, by 1927, Weems was developing into one of the world's leading experts in modern navigation techniques. He would go on to exploit his navigational knowledge for the benefit of the burgeoning aviation field. This process began in earnest in late 1927 to early 1928 when he was ordered to the U.S. west coast to serve with the Pacific Fleet's Aircraft Squadron. Once there, Weems started extensive research into air navigation, later publishing a textbook with that actual title. During this time, he – along with his wife, founded the Weems System of Navigation (WSN). This business enterprise not only incorporated his thoughts, techniques and practices; it also operated as a clearing house for new theories and technologies pertaining to marine and aerial navigation. Further, WSN functioned as a navigational school (including a correspondence school format) for thousands of pilots throughout the U.S. and around the world. Such aviation luminaries as Charles Lindbergh, Douglas 'Wrong-Way' Corrigan, Amy Johnson, Dick Merrill, Admiral Richard Byrd, Harold Gatty, Fred Noonan, Wiley Post and Lincoln Ellsworth availed themselves of Weems' navigational instruction. In the years leading up to her disappearance during an around-the-world flight attempt in 1937, he had repeatedly offered such assistance to Amelia Earhart who – for the reason of scheduling conflicts, could never take advantage of such opportunities. Additionally, WSN churned out numerous articles, instructional handbooks and books on all matters revolving around aerial navigation.

With extensive assistance from his wife, Weems operated WSN while still on active duty with the U.S. Navy, during the period 1928-33. As he continued to perfect his navigational techniques, he served as executive officer aboard the fuel ship, USS Cuyama, from early 1928 through the summer of 1930. A year later, he was assigned to the Naval Academy on shore duty at the Postgraduate School. Subsequently, he was ordered to the Navy Department as Research Officer in Air Navigation – the first such officer tasked with this position. In late 1932, Weems took command of the destroyer, USS Hopkins and then was retired from the service in May, 1933.

Once retired from naval service, Weems expanded his business enterprises. His base of operations was in Annapolis, where he, Margaret and their children lived. He established a chain of schools under the banner of WSN. In tandem with his educational program, he developed and patented a number of methods and

devices that greatly facilitated marine and aerial navigation. Even before leaving the service, Weems had already invented the highly prized Second-Setting Navigation Watch. Throughout the 1930s, his inventions/patents ran the gamut from Star Altitude Curves (which were published navigation tables), Mark II Plotter, Line of Position and Wind Drift Plotters to Drift and Ground Speed Meters. Weems also authored or co-authored numerous books, handbooks, manuals and articles on a variety of navigation themes. Besides his previously published Line of Position Book, he authored Air Navigation in 1931, updated editions of his Star Altitude Curves (1938, 1940 and 1950), Instrument Flying in 1940 (with co-author, Charles Zweng), Marine Navigation in 1940 and Learning to Navigate in 1943.

America's entry into World War II resulted in WSN becoming even busier with its educational programs and sales of its various navigational devices and publications. In addition, the outbreak of war meant a major change in Weems' life. Due to a shortage of naval officers, he was recalled to active duty (as a Lieutenant Commander) in July, 1942. Two months later, Weems was made a convoy commodore for the Atlantic Ocean theater of operations. For the next three years, he served with distinction in this position, having safely shepherded every merchant convoy on the trans-Atlantic run, guaranteeing that necessary supplies, arms and troops arrived safely at European and African ports. As a result of this outstanding performance, Weems was quickly promoted to Commander and then Captain. By the time he retired from active duty again in early 1946, Weems was awarded the Bronze Star Medal for his actions in World War II. Before the war ended, he was also awarded his wings as a Naval Air Navigator. During his wartime service, his wife once again took the lead in managing WSN. Also, during this period, the Weemses lost their son, Philip, Jr. He was killed while serving as a Major with the U.S. Marine Corps in the Southwest Pacific in June, 1943.

After World War II and upon his second retirement from naval service, Weems continued with WSN and other business ventures. This included helping to establish Aeronautical Services, Inc., as well as Weems and Plath, Inc. The former enterprise focused on aviation-related matters while the latter stressed marine navigation. In addition, he continued with his writing about various navigational topics and inventing new techniques and devices pertaining to marine and aerial navigation. This included the Weems Position Finder in 1959 and a revising of his earlier publication, Air Navigation, in 1958. Beyond this, he co-founded and became president of the U.S. Institute of Navigation in 1952, made a flight over the North Pole in 1948 and an around-the-world flight two years later – both times actively participating in the aerial navigation of these risky (at the time) ventures. Shortly before his son's death during a test flight of a U.S. Navy aircraft in 1951, he and George made a long aerial journey in a light plane from London, England to Alice Springs, Australia, with the elder Weems performing the navigation and the younger Weems acting as pilot. Throughout the 1950s and early 1960s, Weems even found time to participate in various underwater archeological expeditions with Ed Link (of flight simulator and submersible design fame). In 1959, he joined with Link, the National Geographic Society and the Smithsonian Institution to conduct an undersea exploration of the sunken city of Port Royal, Jamaica, lost during an earthquake in 1692. The following year, Weems participated in another adventure with Link in Israel by exploring another sunken city, Caesaria. The 'inner space' navigation techniques he developed were employed during all such underwater archeological expeditions.

In 1960, Weems received a grant from the American Philosophical Society to develop practical methods of space navigation, to be described in a handbook for use in space operations as the U.S. initiated its attempt to place humans in Earth orbit. Most of the work on this book was completed when the Navy Department ordered the Captain to active duty for a third, and last, time in 1961. He was assigned the task of conducting a pilot class in space navigation (held at the Naval Academy), as well as to produce a Space Navigation Handbook. With the assistance from several of his young students (all U.S. Navy ensigns), Weems published this handbook in early 1962. His research proved invaluable as he developed a quick way for astronauts to determine their position relative to Earth by utilizing a few visual sightings. He continued his contributions to space navigation by serving as a consultant for the National Aeronautics and Space Administration (NASA). Thus, by his seventies, Weems was an established expert in undersea, marine, aerial and space navigation. He had few peers anywhere on Earth in such fields of study.

Besides medals earned for his years of service in the U.S. Navy during World War I and World War II, Weems garnered many other awards and honors for his work in navigation. Among them are the following: The Thomas Gray Award from the Royal Society of Arts, England; the Gold Medal from the Aero Club of France; Fellow, Institute of Aeronautical Sciences; Fellow, American Geographical Society; the Magellanic Premium

(Gold Medal) of the American Philosophical Society; the LaGorce Medal from the National Geographic Society; the Thurlow Award from the Institute of Navigation; and the Gold Medal of the British Institute of Navigation.

Beyond his career, Weems possessed a keen interest in many other subjects. Throughout most of his life, he stayed active and engaged in city of Annapolis politics, the U.S. Naval Academy, boating, yachting, retired Olympian affairs, history of all sorts, and genealogy. Furthermore, he was a regular donor of navigation-related artifacts and documents to the Smithsonian Institution's National Air Museum (and, later on, the National Air and Space Museum), as well as various historical associations and libraries from his home state of Tennessee. After a brief illness, Weems died at Annapolis' Anne Arundel Hospital on June 2, 1979, at the age of 90.

Scope and Contents

The Philip Van Horn (P. V. H.) Weems Papers reflect Weems' broad, restless curiosity regarding undersea, marine, aerial and space navigation. Weems' significant contributions as a great innovator and proponent of navigational techniques, practices and devices are quite evident in this collection.

Overall, this collection encompasses the years Weems spent as an officer in the U.S. Navy, with his firm, the Weems System of Navigation (WSN), as well as other navigation and non-navigation activities, roughly, from the 1910s through the 1960s. There is some material however, that dates back prior to and beyond this time span. The bulk of the collection is composed of correspondence; most of it related to Weems' involvement in the field of navigation. That said, there is a large amount of other types of archival materials contained which range from photographs, brochures, newsletters, articles and newspaper clippings to press releases, notes, handbooks and manuals. Additionally, there are drafts of papers and articles authored by Weems and other navigational notables. Undoubtedly due to Weems' long life span of ninety years and in combination with his quite varied interests, there are even more kinds of materials threaded throughout this collection.

Very little of the Weems Papers was in any discernable order upon its acquisition by the National Air and Space Museum (NASM) Archives Division. Accordingly, the processing archivist had to organize this large amount of archival material; some of it placed in decades-old file folders while much of it was found loose and unsorted in boxes. As a result, much time was required to simply rebox, refolder and arrange such a great deal of unorganized materials.

This collection is arranged into three series. The first series is composed of personal materials that include correspondence, memoranda, journals, diaries, newsletters on the Weems family, photographs and miscellaneous materials. Each type of archival material is organized chronologically and then alphabetically. The second series consists of professional materials and is by far and away the largest segment of the Weems Papers. Within this series, correspondence is the preponderant material. This series is arranged as follows: Weems' military correspondence (including his return to service during World War II and the early 1960s), WSN correspondence from the late 1920s to the 1950s, general correspondence, memoranda, notes, drafts and worksheets, WSN-related receipts and records, logbooks, notebooks and lesson books, tables, graphs and diagrams, press/news releases, reports, handouts and briefings, manuals, handbooks, procedures and instructions, photographs, speeches and presentations, papers, brochures, pamphlets and catalogs, newsletters, notices and advertisements, books, booklets, registers and guidebooks, maps and charts, magazines and journals, articles, newspaper clippings, and miscellaneous materials. All of the above material is arranged chronologically and then alphabetically. The third series is composed of oversize materials. This material consists of photo albums, scrapbooks, oversized magazines, newspapers, drawings, blueprints, and miscellaneous materials.

Names and Subject Terms

This collection is indexed in the online catalog of the Smithsonian Institution under the following terms:

Subjects:

- Aeronautics
- Navigation
- Navigation equipment and supplies
- Weems School of Navigation

Types of Materials:

- Articles
- Business records
- Charts
- Correspondence
- Photographs
- Scrapbooks

Container Listing

Series 1: Personal Materials, circa 1905-circa 2005

Box 1, Folder 1	Correspondence, Weems to his wife, 1928-1929
Box 1, Folder 2	Correspondence, between Weems and his nephew, John N. Weems, 1941-1942
Box 1, Folder 3	Correspondence, notes, articles, newsletters and magazines, Captain Charles Dodds, 1941-1991
Box 1, Folder 4	Correspondence, LIFE magazine (includes discussion of article featuring Weems' son, "Bee", 1941-1944
Box 1, Folder 5	Correspondence, Weems and his son, George "Bee" Weems, 1944-1949
Box 1, Folder 6	Correspondence, personal, 1948
Box 1, Folder 7	Correspondence and financial statements, Baker, Watts & Company, 1948-1950
Box 1, Folder 8	Correspondence, newspaper clippings, magazine and photographs, Weems' life and family (includes Weems family photographs), 1950-1985
Box 1, Folder 9	Correspondence and memoranda, legal and corporate matters regarding Weems family and Weems System of Navigation, 1957-1964
Box 1, Folder 10	Correspondence and notes, Weems Memorial Library inventory information [folder 1 of 3], 1962-1995
Box 1, Folder 11	Correspondence and notes, Weems Memorial Library inventory information [folder 2 of 3], 1962
Box 1, Folder 12	Correspondence and notes, Weems Memorial Library inventory information [folder 3 of 3], 1962-1972

Correspondence, notes and photographs, Weems and the Tennessee Museum and Archives, 1965-1990

Box 1, Folder 13

Box 2, Folder 1	Correspondence, notes, memoranda and newsletters, United States Olympians, 1966-1967
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Box 2, Folder 2	Memoranda, correspondence and lists, United States Olympians, Washington D.C. Chapter, 1966
Box 2, Folder 3	Journal, Weems, personal, no. 1, 1923-1937
Box 2, Folder 4	Journal, Weems, no. 27, 1947-1966
Box 2, Folder 5	Diary, diary of R.G. Casey, aerial trip over Australia, 1955
Box 2, Folder 6	Journal, Weems, no. 31, 1955-1970
Box 3, Folder 1	Journal, Weems, NNB no. 24, 1963-1964
Box 3, Folder 2	Journal, Weems, no. 25, 1965
Box 3, Folder 3	Journal, Weems, miscellaneous accounts, book no. 27, 1966
Box 3, Folder 4	Journal, Weems, no. 26, 1966-1967
Box 3, Folder 5	Journal, Weems, no. 28, 1966-1967
Box 4, Folder 1	Journal, Weems, no. 29, 1967-1968
Box 4, Folder 2	Journal, Weems, no. 33, 1968-1970
Box 4, Folder 3	Journal, Weems, no. 34, 1969-1970
Box 4, Folder 4	Journal, Weems, no. 36, 1970-1973
Box 4, Folder 5	Journal, Weems, empty, undated
Box 4, Folder 6	Journal, Weems, empty, undated
Box 5, Folder 1	Newsletters, "Weemsana" (newsletters for Weems' family news), 1943-1964
Box 5, Folder 2	Newsletters, United States Olympic Committee, 1967-1968
Box 5, Folder 3	Greeting card, Kichisaburo Nomura, undated
Box 5, Folder 4	Greeting cards, miscellaneous, undated
Box 5, Folder 5	Postal cover, round the world flight of the "Winnie Mae", 1931
Box 5, Folder 6	Postcard, Italian Air Force, 1933
Box 5, Folder 7	Postal cover, Alys McKey Bryant, 1938
Box 5, Folder 8	Lyrics for songs, "Songs of the Pacific Fleet", 1952

Box 5, Folder 9

Lyrics for songs, miscellaneous, undated

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Series 2: Professional Materials, circa 1905-circa 2005

Box 5, Folder 10	Correspondence, mainly on Weems and U.S. Navy issues, 1917-1962
Box 5, Folder 11	U.S. Navy Order, no. 1, Destroyer Force, U.S. Fleet, April 15, 1919, regarding trans-Atlantic flying boat flight attempt, 1919
Box 5, Folder 12	Radiograms, notes and memoranda, Weems, U.S.S. O'Brien and the flight of the NC-4, 1919
Box 5, Folder 13	Correspondence and memoranda, Weems and naval duty, 1920-1928
Box 6, Folder 1	Correspondence, Cary Crockett, Legation of the U.S., Office of the Military Attache, Caracas, Venezuela, 1923
Box 6, Folder 2	Correspondence, U.S. Navy and aerial navigation, 1924-1938
Box 6, Folder 3	Correspondence, U.S. Navy, 1925-1929
Box 6, Folder 4	Correspondence, Captain Armistead Rust, U.S. Navy, 1926-1940
Box 6, Folder 5	Correspondence, Weems and the U.S. Naval Institute, 1927-1942
Box 6, Folder 6	Correspondence and memoranda, Weems and status with U.S. Navy, 1927-1940
Box 6, Folder 7	Correspondence, Weems and the U.S. Navy Institute, 1927-1928
Box 6, Folder 8	Correspondence, U.S. Coast Guard, 1928-1960
Box 6, Folder 9	Correspondence, Weems and the U.S. Naval Institute, 1928-1941
Box 7, Folder 1	Correspondence, U.S. Naval Observatory, 1928-1946
Box 7, Folder 2	Correspondence, Weems, naval and aerial navigation, 1929
Box 7, Folder 3	Correspondence, John F. Curry, Air Corps, 1930-1931
Box 7, Folder 4	Correspondence, U.S. Navy (includes Secretary of the Navy, Bureau of Navigation and the Judge Advocate General), 1930-1946
Box 7, Folder 5	Correspondence and report, U.S. Navy's Hydrographic Office and the International Convention of Transoceanic Flyers, Rome, Italy, 1932
Box 7, Folder 6	Correspondence, U.S. Navy's Hydrographic Office, 1933-1938

Box 7, Folder 7	Correspondence, Weems' first retirement from U.S. Navy and subsequent job search (includes Weems' job application for the Tennessee Valley Authority), 1933
Box 7, Folder 8	Correspondence and memoranda, H.M. Martin, U.S. Navy and aerial navigation, 1935-1939
Box 7, Folder 9	Correspondence, U.S. Navy, Office of Naval Intelligence (Weems on guard against disclosing any confidential information to Japan), 1935-1936
Box 7, Folder 10	Correspondence and memoranda, passage to England aboard the U.S.S. Wyoming, 1936
Box 7, Folder 11	Correspondence, G.N. Butterfield, U.S. Navy, 1940-1941
Box 7, Folder 12	Correspondence, memoranda and receipts, Naval Aircraft Factory, U.S. Navy Yard, 1940-1945
Box 7, Folder 13	Correspondence, U.S. Naval Air Station, San Diego, CA, 1940-1948
Box 7, Folder 14	Correspondence, proposed Alaska-Siberia highway, 1942
Box 7, Folder 15	Correspondence and memoranda, Weems and status with U.S. Navy while convoy commodore during World war II, 1942-1945
Box 7, Folder 16	Correspondence, Weems' promotion to Captain, U.S. Navy, 1943
Box 7, Folder 17	Correspondence, vouchers and order requests, Naval Air Station (NAS), Alameda, 1943-1944
Box 7, Folder 18	Correspondence, Air Transport Command (ATC), 1945
Box 7, Folder 19	Correspondence, Hydrographic Office, U.S. Navy, 1945
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Box 7, Folder 21	Correspondence, Army Air Forces (U.S.), 1946
Box 7, Folder 22	Correspondence, Navy Department, 1946
Box 7, Folder 23	Correspondence, E.R.P. Allan, U.S. Navy, retired, 1947
Box 7, Folder 24	Correspondence, polar/arctic flight and navigation, 1947-1952
Box 7, Folder 25	Correspondence, U.S. Air Force, miscellaneous, 1947-1949
Box 7, Folder 26	Correspondence, Commander E.S. Quilter, U.S. Navy, 1947-1948
Box 8, Folder 1	Correspondence, Navy Department (U.S.), 1948

Box 8, Folder 2	Correspondence, Operation Pole Vault, Weems and Lieutenant Donald H. Sherr, U.S. Air Force, 1948
Box 8, Folder 3	Correspondence, Navy Department, 1949
Box 8, Folder 4	Correspondence, Navy Department, 1950
Box 8, Folder 5	Correspondence, U.S. Naval Air Missile Test Center, Point Mugu, CA, 1951-1952
Box 8, Folder 6	Correspondence and memoranda, Weems and status with the U.S. Navy, 1951-1959
Box 8, Folder 7	Correspondence and newsletter, Weems and the U.S. Navy, 1951-1962
Box 8, Folder 8	Correspondence and memoranda, Weems and the U.S. Navy, 1951-1967
Box 8, Folder 9	Correspondence, the "Lucky Bag" year book, U.S. Naval Academy, 1952-1964
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Box 8, Folder 16	Correspondence, Weems and the U.S. Naval Academy, 1960-1970
Box 8, Folder 17	Correspondence and newspaper clippings, Weems and the space navigation class for the U.S. Navy, 1961-1962
Box 9, Folder 1	Correspondence, Admiral H.G. Rickover, 1962
Box 9, Folder 2	Correspondence and articles, W.A. Cohen, Major, U.S. Air Force, 1964-1965
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Box 9, Folder 4	Correspondence, notes, articles and drafts, Weems and the U.S. Naval Institute, 1965-1967
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Box 9, Folder 6	Correspondence, papers, reports and notes, U.S. Naval research Laboratory, 1967-1968
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Box 10, Folder 5	Correspondence, Sherwood Atkinson (student), 1936-1937
Box 10, Folder 6	Correspondence, Nicholas L. Carabitses (student), 1936-1943
Box 10, Folder 7	Correspondence, Joseph P. Livermore (student), 1936
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Box 10, Folder 9	Correspondence, Maurice L. Bernhardt (student), 1937
Box 10, Folder 10	Correspondence, Ellen Deer (student), 1937-1938
Box 10, Folder 11	Correspondence, brochures, charts and notes, Weems System of Navigation and J.L. Woodruff (instructor), 1937-1940
Box 10, Folder 12	Correspondence and tax receipts, Weems System of Navigation and matters pertaining to taxation, 1937-1945
Box 10, Folder 13	Correspondence, William Cole (U.S. naval officer and former student), 1938-1942
Box 10, Folder 14	Correspondence, Ralph Dougherty (student), 1939-1943
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Box 11, Folder 2	Correspondence, L. Corrin Strong (student), 1939-1940

Box 11, Folder 3	Correspondence, students from Williamsport, PA, 1939-1941
Box 11, Folder 4	Correspondence, Weems System of Navigation (involving Illyne, Woodruff and Blasdel), 1939-1940
Box 11, Folder 5	Correspondence, Thomas R. Cole, Jr. (student), 1940
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Box 12, Folder 4	Correspondence, notes and tables, Star Altitude Curves, polar navigation, 1943-1945
Box 12, Folder 5	Correspondence, Llewellyn W. Wade (student), 1943
Box 12, Folder 6	Correspondence and notes, students of Weems System of Navigation (air navigation coursework), 1943
Box 12, Folder 7	Correspondence and notes, students of Weems System of Navigation (coursework in Marine Navigation #5), 1943
Box 12, Folder 8	Correspondence and notes, students of Weems System of Navigation (coursework in Marine #6), 1943
Box 12, Folder 9	Correspondence, miscellaneous financial matters regarding Weems, 1944-1946

Box 12, Folder 10	Correspondence and pamphlets, schedule of discount for Weems System of Navigation, 1944-1945
Box 12, Folder 11	Correspondence, Weems and the Internal Revenue Service (IRS) on the "Watch Tax", 1945
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Box 13, Folder 7	Correspondence, P.V.H. Weems, 1948
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Box 138, Folder 7	Report, "De Bothezat Aeronautical Corporation - its Purpose and Scope", De Bothezat Aeronautical Corporation, New York, NY, 1926
Box 138, Folder 8	Report, "Rules and Practice - Air Trails Section", Rand McNally & Company, Chicago, IL, 1931
Box 138, Folder 9	Report, "Celestial Air Navigation Text", Office of the Chief of the Air Corps, U.S. Army, 1937
Box 138, Folder 10	Report, "Phantom Scale Gyro Sextant, Part 1, Preliminary Test", report no. 2128, Douglas Aircraft Co., Inc., Santa Monica, CA, 1938
Box 139, Folder 1	Report, "Bubble Acceleration and Octant Shooting", Army Air Forces Navigation School, Selman Field, Monroe, LA, 1942
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Box 139, Folder 7	Report, "Report on Hagner Averaging Sextant", U.S. Naval Observatory, Washington, D.C., 1942

Box 140, Folder 1	Reports and correspondence, financial status of Weems and business, 1943-1956
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Box 152, Folder 9	Instructions, miscellaneous, undated
Box 152, Folder 10	Manuals, brochures and pamphlets, miscellaneous, undated
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Box 152, Folder 12	Manuals, miscellaneous training services manuals and brochures, undated

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Box 153, Folder 7	Instructions, advertisements and brochures, Weems System of Navigation, undated
Box 153, Folder 8	Photographs, C.W.O. Connor and the U.S.S. "Nevada", 1905-1968
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Box 153, Folder 10	Photograph, NC-4 crew, 1919
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Box 153, Folder 14	Photographs, compasses, 1943
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Box 154, Folder 4	Photographs, miscellaneous aviation from Charles Zweng, 1961-1963
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Box 154, Folder 6	Photograph and press releases, Weems and book authored by him, 1962
Box 154, Folder 7	Photographs and brochures, AN/APN-70 LORAN Receiver, Radio Corporation of America, undated
Box 154, Folder 8	Photographs, book illustrations, undated
Box 154, Folder 9	Photographs and drawings, bubble sextants, undated
Box 154, Folder 10	Photographs, brochures and pamphlets, bubble sextant and Bausch & Lomb, undated
Box 154, Folder 11	Photographs, drafting machines, undated
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Box 155, Folder 5	Photographs, charts and notes, navigation, miscellaneous, undated
Box 155, Folder 6	Photographs, artist renderings and charts, navigational instruments, undated
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Box 156, Folder 5	Photographs and biographical information, Weems and Weems System of Navigation business associates, undated
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Box 156, Folder 7	Photographs, Weems navigational devices, undated
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Box 158, Folder 14	Papers, correspondence and notes, papers and drafts of papers written by Weems, 1952-1962
Box 158, Folder 15	Paper, "Half Century of Navigation, 1900-1950", prepared for the Institute of Navigation meeting, San Diego, CA, 1954
Box 158, Folder 16	Paper, "Airborne Automatic Navigation", Joseph B. Matthews, Jr., Institute of Navigation, Baltimore, MD, 1955
Box 158, Folder 17	Paper, "Airborne Weather Radar", Robert R. Welch, Institute of Navigation meeting, Maxwell Air Force Base, Montgomery, AL, 1955
Box 158, Folder 18	Paper, "The Role of the Geodesist", Floyd W. Hough, Geonautics, Inc., Washington, D.C., 1958
Box 159, Folder 1	Paper, "Aerodrome Performance Standards and their Application to Jet Aircraft", Dr. R.R. Shaw, Australian Institute of Navigation, Sydney, Australia, 1958
Box 159, Folder 2	Paper, "An Automatic Astro Compass", David B. Nicholson, Institute of Navigation, University of California, Goleta, CA, 1958
Box 159, Folder 3	Papers, notes and articles, Burton SARC system of navigation, 1959-1967
Box 159, Folder 4	Papers, articles and reports, lunar and space navigation, 1959-1962
Box 159, Folder 5	Paper and report, regarding spacecraft, Institute of the Aeronautical Sciences, 1959-1961
Box 159, Folder 6	Paper, "Project Transit", Robert F. Freitag, U.S. Navy, Institute of Navigation, Colorado Springs, CO, 1960

Box 159, Folder 7	Paper, "Space Navigation", Weems, AGARD seminar, University of Southampton, U.K., 1961
Box 159, Folder 8	Paper, "Abort during Manned Ascent into Space", R. L. Gervais and M.C. Johnson, American Astronautical Society, Washington, D.C., 1962
Box 159, Folder 9	Paper, "Analysis of Guidance Techniques for Achieving Orbital Rendezvous. P.G. Felleman, American Astronautical Society, 1962
Box 159, Folder 10	Papers, miscellaneous abstracts on space flight and space navigation, 1962-1963
Box 159, Folder 11	Papers, miscellaneous (none by Weems), presented at the 18th annual meeting of the Institute of Navigation, El Cortez Hotel, San Diego, CA, 1962
Box 159, Folder 12	Paper, "Need for Astronomical Telescopes in the Tracking of Space Probes", J.C. Walker, 8th annual national meeting, American Astronautical Society, Washington, D.C., 1962
Box 159, Folder 13	Paper, "Pilot Class in Space Navigation at the Naval Academy: A Report", Weems, U.S. Naval Institute Proceedings, 1962-1963
Box 159, Folder 14	Paper, "Space Almanac:", Weems, space navigation class, U.S. Naval Academy, Annapolis, MD, 1962
Box 160, Folder 1	Paper, "Overshoot Orbits Reduce Radiation Sensor Requirements with Minimum Fuel Penalty", George Henf, General Precision, Inc., 1963
Box 160, Folder 2	Paper, "Automated Marine Navigation", Charles W. Benfield, 20th annual national meeting, Institute of Navigation, New York, NY, 1964
Box 160, Folder 3	Paper, "Current State of the Science of Marine Navigation", C.M. Jarsky, Jr., Institute of Navigation, 20th annual national meeting, New York, NY, 1964
Box 160, Folder 4	Paper, "Dead-Reckoning Land Vehicle Navigation System", E. Wall, Institute of Navigation, 20th annual meeting, New York, NY, 1964
Box 160, Folder 5	Paper, "Influence of Route Temperature Effects on SST Navigation", D.W. Richardson, E.P. Hechtman and S.B. Demkowicz, Institute of Navigation, 20th annual national meeting, New York, NY, 1964
Box 160, Folder 6	Paper, "Manned Space Flight Navigation Techniques", Weems, Institute of Navigation, Royal Geographical Society, London, U.K., 1964
Box 160, Folder 7	Paper, "Marine Course Computer Sea Evaluation", K.L. Burfeindt, Institute of Navigation, 20th annual national meeting, New York, NY, 1964
Box 160, Folder 8	Paper, "NAA Model NAC-60 Supersonic Transport Navigation and Traffic Control", R.G. Bohannon, Institute of Navigation, 20th annual national meeting, New York, NY, 1964

Box 160, Folder 9	Paper, "Navigation and Control from Loran-C", Loren E. DeGroot, Institute of Navigation, 20th annual meeting, New York, NY, 1964
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Box 160, Folder 12	Papers, space flight navigation, 1964-1965
Box 160, Folder 13	Paper, "Supersonic Aircraft in the North Atlantic", Curtis J. Kelly, U.S. Coast Guard, Institute of Navigation, 20th annual meeting, New York, NY, 1964
Box 160, Folder 14	Papers and correspondence, U.S. Navy fleet navigation, 1964-1969
Box 160, Folder 15	Paper, "VLF Range-Range Navigation Error Contours", Ronald Braff and Nathaniel Braverman, Institute of Navigation, 20th annual meeting, New York NY, 1964
Box 160, Folder 16	Papers and press releases, Burton SARC navigation concept, 1966-1967
Box 160, Folder 17	Papers, drafts and note, U.S. Naval Research Laboratory, 1967
Box 160, Folder 18	Papers, navigation issues, presented at Institute of Navigation meetings, 1969
Box 161, Folder 1	Papers and notes, navigation research, University of Tennessee and Navigation Research Center, 1969
Box 161, Folder 2	Paper, "Precomp Navigation", Weems, Institute of Navigation, New York, NY, 1969
Box 161, Folder 3	Paper, "George Thackay Weems", Jessica Lane, 1993
Box 161, Folder 4	Paper and draft, "The Last Flight of Fredrick J. Noonan", Bowen P. Weisheit, 1995
Box 161, Folder 5	Paper, "Celestial Navigation Aloft: American Efforts to Develop Bubble Sextants, D.J. Warner, 2003
Box 161, Folder 6	Paper, "Aerial Electronic Surveying", B.B. Hunkpiller, U.S. Air Force, Air Photographic and Charting Service, undated
Box 161, Folder 7	Paper, "Aerial Navigation", U.S. Naval Institute, Annapolis, MD, undated
Box 161, Folder 8	Paper, "Airborne Navigational Recorders", John C. Bellamy, Cook Research Laboratories, Chicago, IL, undated

Box 161, Folder 9	Paper, "Case for the Airborne Navigation Computer", Norman W. Emmott, Institute of Navigation, 20th annual national meeting, undated
Box 161, Folder 10	Papers and notes, compasses, undated
Box 161, Folder 11	Paper, "High Accuracy Marine Navigation", Weems, R. Kenneth Phelps and Charles W. Benfield, undated
Box 161, Folder 12	Papers and magazine, historic evolution of navigation, undated
Box 161, Folder 13	Papers, miscellaneous, undated
Box 161, Folder 14	Papers and notes, miscellaneous topics, undated
Box 161, Folder 15	Paper, tables and charts, "Nautical Almanac", undated
Box 161, Folder 16	Paper, "Navigation Plotters", Weems, undated
Box 161, Folder 17	Paper, "Navigation without Horizon by Burton System", Weems, undated
Box 161, Folder 18	Papers, polar navigation, undated
Box 161, Folder 19	Papers, precomp navigation, undated
Box 161, Folder 20	Paper, "Spacecraft Design for Future Missions, undated
Box 162, Folder 1	Paper, "Star Altitude Curves", undated
Box 162, Folder 2	Papers and drafts of papers, Weems and navigation, undated
Box 162, Folder 3	Brochures, Pacific Technical University, San Diego, CA, 1928
Box 162, Folder 4	Pamphlet, "Aviation Training Pamphlet - S-30 - Aerial Navigation", J. Lockwood Pratt, U.S. Naval Air Station, Pensacola, FL, 1929
Box 162, Folder 5	Brochures, papers and booklet, aviation themes, 1930-1955
Box 162, Folder 6	Brochure and correspondence, "Gatty Ground Speed and Drift Indicator", Louis Levin & Son, Los Angeles, CA, 1932
Box 162, Folder 7	Brochures and correspondence, Holmes compasses, 1934-1944
Box 162, Folder 8	Brochures, pamphlets, programs and booklets, photogrammetry, 1934-1962
Box 162, Folder 9	Brochures and newsletters, correspondence schools, 1939-1948
Box 163, Folder 1	Catalog, "Aviation and Technical Watches", Longines-Wittnauer Watch Company, Inc., New York, NY, 1940

Box 163, Folder 2	Pamphlet, "A Pictorial report of Progress", Governor Prentice Cooper of Tennessee, 1942
Box 163, Folder 3	Catalogs, Rand McNally atlases, 1942
Box 163, Folder 4	Brochures and pamphlets, Bendix Aviation Corporation, 1945-1946
Box 163, Folder 5	Brochures, dealers discounts, Weems System of Navigation, 1945-1947
Box 163, Folder 6	Catalogs, Pan-American Navigation Service, 1945-1948
Box 163, Folder 7	Catalogs, miscellaneous regarding Weems System of Navigation, 1945-1964
Box 163, Folder 8	Brochure, "Universal Drafting Machines", Universal Drafting Machine Company, 1945
Box 163, Folder 9	Catalogs, Weems System of Navigation publications for sale, 1945
Box 163, Folder 10	Brochures and articles, Cleveland Air Show, 1946
Box 163, Folder 11	Pamphlet, "National Policy for Aviation", planning pamphlets no. 51-52, National Planning Association, Washington, D.C., 1946
Box 163, Folder 12	Pamphlet, "Wings over America", John Stuart, Public Affairs Committee, 1946
Box 163, Folder 13	Catalog, "Aeronautical Chart Catalog", U.S. Coast and Geodetic Survey, 1947
Box 163, Folder 14	Brochure, "DAREX Meteorological Balloons", Dewey and Almy Chemical Company, Cambridge, MA, 1947
Box 163, Folder 15	Catalogs and brochures, miscellaneous, 1947-1958
Box 164, Folder 1	Brochures, catalogs, magazines and handbooks, miscellaneous, 1948-1955
Box 164, Folder 2	Pamphlet, "NACA", National Advisory Committee for Aeronautics, Washington, D.C., 1948
Box 164, Folder 3	Catalogs, Weems System of Navigation, 1948
Box 164, Folder 4	Catalogs, aeronautical charts, U.S. Coast and Geodetic Survey, 1949
Box 164, Folder 5	Catalog, "Catalog of Loran Charts and Service Areas", U.S. Navy Hydrographic Office, Washington, D.C., 1950
Box 164, Folder 6	Brochure, "Lockheed in the 1950's", Lockheed Aircraft Corporation, 1950
Box 164, Folder 7	Brochures and pamphlets, miscellaneous, 1951-1955
Box 164, Folder 8	Pamphlets and articles, miscellaneous, 1952-1962

Box 164, Folder 9	Brochures, notes and baggage check receipt, Weems, 1955
Box 164, Folder 10	Pamphlet and program, John H. Glenn, Jr., 1962
Box 164, Folder 11	Brochure, notes, drafts and plotting charts, Weems and the Technical Journal and Universal Plotting Chart, 1963-1964
Box 164, Folder 12	Brochures and correspondence, digital computers, 1967-1968
Box 165, Folder 1	Catalogs, Naval Research Laboratory, 1967
Box 165, Folder 2	Catalog, "Model Rocket Supplies Catalog", Estes Industries, Inc., Penrose, CO, 1969
Box 165, Folder 3	Brochures, "Aeronautical Instruction", Pan-American Navigation Service, undated
Box 165, Folder 4	Brochures, postcards and maps, Aeronautical Services, Inc., undated
Box 165, Folder 5	Brochures, airlines and navigation, undated
Box 165, Folder 6	Brochure, "Astro Compass, Mark II", Weems System of Navigation, undated
Box 165, Folder 7	Brochures, aviation schools, undated
Box 165, Folder 8	Brochure, "Bendix-DECCA Navigator System", Bendix Aviation Corporation, undated
Box 165, Folder 9	Brochures, pamphlets and notes, C. Plath, undated
Box 165, Folder 10	Brochure, "Exploration ... the Story of Autonetics", undated
Box 165, Folder 11	Brochures, "Facilities and Capabilities", ITT Federal Division, undated
Box 165, Folder 12	Pamphlet and photographs, "Gatty Ground Speed and Drift Indicator", Weems System of Navigation, Annapolis, MD, undated
Box 165, Folder 13	Brochure, Geonautics, Inc., undated
Box 165, Folder 14	Brochures, "Hamburg Ship's Bell Clocks", Weems & Plath, Inc., undated
Box 165, Folder 15	Brochures, pamphlets and booklets, Henry Hughes & Son, Ltd., undated
Box 165, Folder 16	Brochures, "Instructions for Casey-Myers Computer", Weems System of Navigation, undated
Box 165, Folder 17	Brochure and brochure draft, "Instructions for the Jensen Computing Dividers", Weems System of Navigation, undated

Box 165, Folder 18	Brochures, catalogs and newsletters, Jeppesen & Company, undated
Box 166, Folder 1	Brochures, Kodon Electronics Company, Ltd., undated
Box 166, Folder 2	Brochure, "Learning to Navigate", Pitman Publishing Corporation, New York, NY, undated
Box 166, Folder 3	Brochure, "Longines", Longines-Wittnauer Company, undated
Box 166, Folder 4	Catalogs, marine navigation equipment, Weems System of Navigation, undated
Box 166, Folder 5	Brochures, notes and tables, miscellaneous aircraft navigational computers, undated
Box 166, Folder 6	Brochures, catalogs and pamphlets, miscellaneous (mainly from Pan American Navigation Service), undated
Box 166, Folder 7	Brochure, "Missile and Space Systems", Kollsman Instrument Corporation, undated
Box 166, Folder 8	Brochures and promotional flyers, Plath compass, undated
Box 166, Folder 9	Catalog, "Ultradex-Indexing Table", AA Industries, Inc., Detroit, MI, undated
Box 166, Folder 10	Brochures, Weems & Plath, Inc., undated
Box 166, Folder 11	Brochures, Weems Binoculars, undated
Box 166, Folder 12	Brochure, "Weems Naviders", Weems System of Navigation, FSN 6605-682-4548, Annapolis, MD, undated
Box 166, Folder 13	Brochures and promotional flyers, Weems navigator, undated
Box 166, Folder 14	Pamphlets and instructions, Weems Proportional Dividers, undated
Box 166, Folder 15	Catalogs, Weems System of Navigation, undated
Box 166, Folder 16	Catalog, Weems System of Navigation, catalog W-4, undated
Box 166, Folder 17	Brochure, Weems 3071 Plotter, Aeronautical Services, Inc., undated
Box 167, Folder 1	Advertisements, greeting cards, study guides, articles, sales receipts and correspondence, Charle A. Zweng and the Pan American Navigation Service, 1940-1946
Box 167, Folder 2	Advertisements, Weems System of Navigation in "Flying" magazine, 1941

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Box 167, Folder 4	Newsletters, Certified Aviation Center, 1946
Box 167, Folder 5	Notices, U.S. Coast and Geodetic Survey, 1947
Box 167, Folder 6	Bulletin, "Annotated Bibliography of Materials Relating to Polar Navigation", Information Bulletin A-100, Maxwell Air Force Base, AL, 1950
Box 167, Folder 7	Newsletters and memoranda, Aviation Distributors and Manufacturers Association, [folder 1 of 2], 1950
Box 167, Folder 8	Newsletters and memoranda, Aviation Distributors and Manufacturers Association, [folder 2 of 2], 1950
Box 168, Folder 1	Notices, Civil Aeronautics Administration, 1952-1955
Box 168, Folder 2	Newsletters, "Aviation Distributors and Manufacturers Association", 1953
Box 168, Folder 3	Newsletters, Australian Institute of Navigation, 1955-1961
Box 168, Folder 4	Newsletters, brochures, articles and correspondence, American Astronautical Society, 1959-1963
Box 168, Folder 5	Newsletters, "Navigation Notes", Weems System of Navigation, 1959-1960
Box 169, Folder 1	Newsletter, "Aeronautics Bulletin", vol. XII, no. 2, Park College of Aeronautical Technology, East St. Louis, MO, 1961
Box 169, Folder 2	Newsletters, brochures, articles and correspondence, American Astronautical Society, 1962-1967
Box 169, Folder 3	Newsletters and report, Times Mirror, 1967
Box 169, Folder 4	Newsletters and brochures, Explorer's Trademart, 1968-1969
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Box 169, Folder 6	Newsletters, "Litton Avionics Newsletter", Litton Systems, Inc., 1970
Box 169, Folder 7	Advertisements, ASI Computer, undated
Box 169, Folder 8	Advertisements, drawings and paper mock-up, computers, undated
Box 169, Folder 9	Advertisements, electronic navigation, undated
Box 169, Folder 10	Advertisements, for "Instrument Flying" by Weems and Zweng, undated

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Box 169, Folder 12	Book, "Line of Position Book - Polar Edition", Weems, U.S. Naval Institute, Annapolis, MD, 1927
Box 170, Folder 1	Book, "Star Altitude Curves - Latitude 30 Degrees to 41 Degrees North", Weems, Rodney Stokes Company, San Diego, CA, 1928
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Box 174, Folder 1	Book, "Aeronautical Dictionary", National Aeronautics and Space Administration, Frank Davis Adams, Government Printing Office, Washington, D.C., 1959
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Box 176, Folder 4	Almanac, "Air Almanac 1941, January-March", H.M. Nautical Almanac Office, Air Publication 1602, Weems System of Navigation, Annapolis, MD, 1941
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Box 177, Folder 4	Booklet, "A Chronicle of the Aviation Industry in America, 1903-1947", Eaton Manufacturing Company, Cleveland, OH, 1947
Box 177, Folder 5	Booklets, pamphlets and newsletters, civil aviation education, 1947-1951
Box 177, Folder 6	Booklet, "A Chronicle of the Aviation Industry in America - 1949 - Supplement", Eaton Manufacturing Company, Cleveland, OH, 1950
Box 177, Folder 7	Booklets, miscellaneous, in French, regarding aerial navigation, 1950-1955
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Box 178, Folder 2	Booklet, "45 Years After, 1911-1956", U.S. Naval Academy, Annapolis, MD, 1956
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Box 178, Folder 4	Booklet, reunion yearbook for U.S. Naval Academy class of 1912, 1957
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Box 178, Folder 6	Booklet, "Ground School Syllabus:", Navigator Training Division, Civil Aviation Academy, Tjurug Airfield, Tangerang, Indonesia, 1961
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Box 179, Folder 2	Booklets, pamphlets and programs, dedication of Michelson Hall, U.S. Naval Academy, Annapolis, MD, 1969
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Box 180, Folder 5	Booklet, "Howell Torpedo", Honeywell, Inc., undated
Box 180, Folder 6	Booklet, "Ice Formation on Aircraft", aerology series, no. 1, Training Division, Bureau of Aeronautics, U.S. Navy, undated
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