Skylab

Location	Author	Title	Source	Date pub.	Doc. number	Series
1.01						
Newkirk,R.W.; Ertel, I.D.; Brooks, C.G.		**Skylab, A Chronology**	National Aerona	1/1/1977	NASA SP-4011	1 program
Abstract	Skylab exceeded all early expectations by being manned for 18,59, and 84 days respectively…By the end of the Skylab Program in February 1974, all scheduled flight objectives of the Skylab Program had been accomplished, plus other objectives added as the program progressed. This chronology covers Space Station activities from 1923 through 1974.					
1.02						
Belew, Leland F, Editor		**Skylab, Our First Space Station**	National Aerona	1/1/1977	NASA SP-400	1 program
Abstract	Skylab was the United States' first space station-and much more. It was, of course a complex and complete orbiting home and scienfic laboratory, wherenine highly trained astronauts lived and worked in teams of three in shirt sleeve comfort. But it was also a program of unparralled scientific scope which continues to yield highly valuable information about the universe and life within it.					
1.03						
Office of Public Affairs		**Skylab News Reference**	National Aerona	3/31/1973	News Referenc	1 program
Abstract	The purpose of this document is to compile the best basic information available on all elements of the Skylab program.					
1.04						
Belew, Leland F and Stuhlinger, Ernst		**Skylab, A Guidebook**	George Marshall	1/1/1973	NASA EP-107	1 program
Abstract	This document describes the result of the work of several thousand engineers and scientists who, over the last ten years conceived, designed, developed, built and tested Skylab, the most complicated space system in the American space flight program so far. We are completiing our writing just a few months before the launching of Skylab.					

Location	Author	Title	Source	Date pub.	Doc. number	Series
1.05						
	Canby, ThomasY. And Gibson, Edward G.	**Skylab, Outpost in Space, Its view of Earth,**	National Geogra	10/1/1974	Vol 146, pp 44	1 program
Abstract	Combining the adventures of all three Skylab crews and assessing a spectacular harvest of scientific discoveries, the magazine continues its tradition of definitive, in-depth accounts with this three-part look at the accomplishments of America's first manned orbiting laboratory.					
1.06						
	staff, MSFC Public Affairs Office	**Catalog of Skylab Information**	NASA MSFC	10/31/1974	M-GA-74-6	1 program
Abstract	This is a compilation of information related to the Skylab produced through October 1974. This publication is not intended as a catalog of available information , but rather as a resource or reference guide of the material that was produced.					
1.07						
	staff, Educational Programs Division, NAS	**Skylab, A Preview of America's First Earth-**	NASA Headquar	1/31/1972	NASA Facts-43	1 program
Abstract	The Skylab workshop is America's frist manned space station. In its 13,000 cubic foot volume, three manned crews will conduct over 50 experiments during space missions as long as 56 days.					
1.08						
	Cooper, Henry S. Jr.	**Life in a Space Station, Part I**	The New Yorker,	8/30/1976	New Yorker	1 program
Abstract	Once every five days, Skylab, the abandoned space station, orbits overhead, two hundrd and seventy miles above New York City. Skylab was a primitive space station knocked together from old Apollo parts.					
1.09						
	Cooper, Henry S. Jr.	**Life in a Space Station, Part II**	The New Yorker	9/6/1976	New Yorker	1 program
Abstract	…during the third Skylab space mission, Edward G. Gibson, the science pilot, went to Skylab's multiple adapter to start observing the sun…					
1.10						

Location	Author	Title	Source	Date pub.	Doc. number	Series
Belew, Leland F.		**Skylab View Graphs, Projection transparen**	MSFC	12/31/1974	document foldi	1 program
Abstract	This folder holds view graphs describing the Skylab Program.					
1.11						
staff, Martin Marietta		**Skylab**	Martin Marietta	12/31/1974	fold out charts	1 program
Abstract	This is a multi-fold chart containing summary information on all aspects of the Skylab program					
1.12						
staff, Marshall Star		**Several Marshall Star Articles on Skylab, Pa**	MSFC	11/2/1966	Marshall Star is	1 program
Abstract	This is a folder containing issues of the Marshall Star (weekly Publication of the MSFC) with articles on Skylab, particularly the Apollo Telescope Mount. The earliest issue is Nov 2, 1966, and the latest is Dec 12, 2002.					
1.13						
NASA Public Affairs Office		**Video Catalog**	NASA	12/31/1974	Catalog	1 program
Abstract	This is annotated catalog or list of Skylab films produced by NASA					
1.14						
Fletcher, James C.		**The Final Skylab Mission, Man at home and**	NASA Mission R	2/15/1974	MR-15	1 program
Abstract	Everything that we have done in the Skylab Program has been necessary for future progress in space and the Skylab experience has confirmed that we are really on the right track in proceeding to develop the Space Shuttle and its Spacelab manned module for use in the 1980s and 1990s					
1.15						
MSFC		**Flying on Skylab…for the benefit of man**	NASA MSFC	1/1/1973	Trifold docume	1 program
Abstract	This ia a trifold information document describing the Apollo Telescope Mount on Skylab					
1.16						

Location	Author	Title	Source	Date pub.	Doc. number	Series
MSFC		**Steps to Saturn**	NASA MSFC	10/27/1961	Document	1 program
Abstract	At Cape Canaveral on October 27, 1961, at about ten o'clock in the morning, a white, three-stage rocket lifted slowly from its pad on a roaring column of fire. This was the first flight test of the Saturn launch vehicle. The steps leading to this event are reviewed. Saturn vehicles later launched Skylab.					
1.17						
MSFC		**Saturn I Summary**	NASA MSFC	7/30/1965	Booklet	1 program
Abstract	The Saturn IB was used to launch Skylab crews. This booklet gives the histoy of the development of Saturn I					
1.18						
MSFC		**Saturn IB**	NASA MSFC	7/1/1964	I-I/IB-E-PDI	1 program
Abstract	The Saturn IB was used to launch Skylab crews. The brochure gives the characteristics if the Saturn V vehicle					
1.19						
MSFC		**Saturn V Launch Vehicle**	NASA MSFC	6/1/1964	I-V-E PD1	1 program
Abstract	The Saturn V was used to launch Skylab. This booklet gives the characteristics of the Saturn V vehicle					
1.20						
Bylinshy, Gene		**Dr. Von Braun's All Purpose Space Machine**	Fortune	5/1/1967	reprint of articl	1 program
Abstract	The Saturn V is at once the moon rocket of science fiction come true and the engine to power this country's multi-faceted assault on the vastness of space for the next twenty years.					
1.21						
MSFC		**Skylab Experiment Data Summary**	NASA MSFC	1/1/1973	MSFC-SL-73-4	1 program
Abstract	This is a pocket size reference booklet with information on Skylab and its experiments					

Location	Author	Title	Source	Date pub.	Doc. number	Series
1.22						
Eddy, John A.		**Optical Instrumentation on the NASA Skyla**	A Special Skylab	4/30/1977	Vol 16, No 4	1 program
Abstract	More than anything else, Skylab was a laboratory of optical instruments, in the broadest definition, spanning the full reach of the electromagnetic spectrum from hard x-rays to radio waves. We assemble in this issue twenty-six invited papers that describe some of the special problems of optical instrumentation aboard Skylab.					
1.23						
Clark, James W.		**MSFC Skylab Mission Report-Saturn Works**	NASA MSFC Sk	10/31/1974	NASA TM X-64	1 program
Abstract	The Skylab's Saturn Workshop mission performance is presented. The Saturn Workshop circled the Earth every 93 minutes at approximately 435 km altitude with its orbit inclined 50 degrees from the Equator…Performance is compared with design parameters, and problem causes and solutions are treated.					
1.24						
Schneider, William C.: Balbsky, E. Mary L		**Strike in Space**	FAX from Schne	12/10/1992	Case Study	1 program
Abstract	This is a FAX with attachments: 1) Note from Schneider to Belew on cover sheet 2) Note to Schneider from Gregg Swietek, The Stanford Sloan Program, Graduate School of Business, Stanford University, 3) Harvard Business School case document "Strike in Space" written by Mary Lou Balbsky, starting with "on December 27, 1973 the third crew of the Skylab space station turned off the radio and refused to talk with Houston Mission Control."					
1.25						
Ise, Rein; Compiler		**ATM Goodies**	MSFC and other	12/31/1974	document bind	1 program
Abstract	This is a binder assembled by Rein Ise, containing documents, photographs, clippings, and other items related to the Apollo Telescope Mount (ATM) flown on Skylab.					
1.26						

Location	Author	Title	Source	Date pub.	Doc. number	Series
Belew, Leland F. and Haeussermann, Wal		**Apollo Telescope Mount Project Developme**	MSFC	4/13/1967	project dev. Pl	1 program

Abstract The Apollo Telescope Mount Project Development Plan has been reviewed and approved. It shall serve as the basis for the ATM development program and as a guide in preparing comprehensive planning documents

1.27

Ise, Rein and Keathley, William		**Apollo Telescope Mount Design Certificatio**	MSFC	10/3/1972	ED-2002-1557	1 program

Abstract This document contains the ATM module and experiment design certification review presentation to the Manned Space Flight Management Council on October 2, 1972.

1.28

Ise, Rein		**Apollo Telescope Mount Flight Readiness**	MSFC	4/19/1973	ED-2002-1609-	1 program

Abstract This report documentsthe oral presentation which was given to the NASA Headquarters Management Council on April 19,1973 at Kennedy Space Center. Section I represents the final flight rediness review for the Apollo Telescope Mount. Section II represents the experiments operational reddiness. Section IV presents each of the five endorsements for certification of flight worthiness.

1.29

Ise, Rein and others		**ATM Project Status Review**	MSFC	2/21/1968	I-S/AA 4-463, 2	1 program

Abstract This set of charts gives accomplishments since the December review and the planned accomplishments for March. In contains the ATM funding summary as of February 19,1968 and the ATM MSFC POP 68-1

1.30

Disher, John C.; Mitchell, R.M. and Richar		**ATM Review**	NASA Headquar	8/1/1968	MLA-8/1/68	1 program

Abstract This review lists decisions requiring Administrator's action: 1) Proceed or terminate-ASAP, 2) If proceed-schedule-ASAP,-Authorityto proceed on LM-Sept 15, 1968,-LM/ATM Back-up mission-Oct 15, 1968, 3) If terminate LM/ATM-should experiment continue ASAP, continue key developmentsfor future missions Oct. 1968.

1.31

Location	Author	Title	Source	Date pub.	Doc. number	Series
Richard L		**LM/ATM Value on Technology, Status, and**	MSFC	8/5/1968	presentation ch	1 program

Abstract This is a set of charts or working papers on the LM/ATM program status on Aug 5, 1968. It has hand written annotations probably by R. Ise.

1.32

Ise, Rein		**The ATM, a Man-Attended Spacecraft for So**	MSFC	10/20/1971	presentation ch	1 program

Abstract The included charts summarize the ATM mission objectives and profile, describe the spacecraft requirement s and characteristics, discuss the principal subsystems including experiments, and show the astronaut activities that support scientific observations and operations.

1.33

Guest, Robert H.		**The Apollo Telescope Mount Program, A Gl**	Tuck School of	1/31/1969	Case study	1 program

Abstract In an organizational and technical sense ATM posed unique challenges. Success would depend upon the ability of the government, industry and the scientific community to collaborate in a way that had few precedents. The organizational "interfaces" would be delicate and complex

1.34

Peterson, Gail Mahan		**Skylab, America's First Space Station**	Hallmark Cards I	5/31/1973	children's book	1 program

Abstract This is a Hallmark Pop-Up Book for children.

1.35

Fletcher, James C. and Petrone, Rocco A.		**NASA Skylab Honor Awards Ceremony**	NASA	4/19/1973	Awards Cerem	1 program

Abstract This is the program of the Skylab Honor Awards Ceremony held on April 19, 1974 in the MSFC Morris Auditorium.

1.36

Location	Author	Title	Source	Date pub.	Doc. number	Series
Fletcher, James C. and Lucas, W.R.		**Special Skylab Awards Ceremony**	NASA MSFC	11/21/1974	Ceremony Broc	1 program

Abstract This is the last in a series of special NASA Award Ceremonies honoring individuals and groups who made particularly outstanding contributions in the Skylab program and who together with many thousands of others on the Skylab team, made Skylab one of the greatest achievements of the first two decades of the Space Age.

1.37

NASA and others		**Various Skylab Photographs**	Photographs fro	12/31/1974	Photographs	1 program

Abstract This is an asssortment of Skylab photographs

1.38

Belew, Leland Forrest		**Skylab Program Manager, professional hist**	Belew, Leland F	1/1/1999	document folde	1 program

Abstract Professional History of Leland F. Belew, Skylab Program Manager among many management roles

1.39

Ise, Rein		**Letters of Recognition**	NASA and other	9/14/1974	document folde	1 program

Abstract Includes the Skylab Medallion given as a momento of contribution to the Skylab mission. It contains metal from the 16mm film cassette returned to Earth on February 8th, 1974 after traveling more than 111 million miles, 4100 revolutions, in 270 days.

2.01

Johnson, Richard S. and Dietlein, Lawrenc		**Biomedical Results form Skylab**	NASA JSC	12/31/1977	NASA SP-377	2 science

Abstract The Life Sciences Program on Skylab encompassed inquiries into the effects of space flight on basic biological systems, the physiological responses of man, as well as health, well-being, and safety of the crewmen. This program was developed and executed under the auspices of the Life Science Directorate at the JSC.

2.02

Location	Author	Title	Source	Date pub.	Doc. number	Series
staff, Johnson Space Center		**Skylab Explores the Earth**	NASA JSC	12/31/1977	NASA SP-380	2 science

Abstract The successful launch of the Skylab on May 14, 1973, enabled man to observe and study the Earth for periods of 28,59, and 84 days during the Northern Hemisphere summer,fall, and winter seasons. The crew of the second manned mission observed and photographed 35 land, ocean, and atmospheric sites on instructions form the mission suppor team at the Johnson Space Center. From results obtained during this mission, a visual observation experiment was planned for the third manned mission of 84 days.

2.03

staff, Johnson Space Center		**Skylab EREP (Earth Resources Experiment**	NASA JSC	12/31/1978	NASA SP-399	2 science

Abstract The Earth Resources Experiment Package acquired thousands of photographs and several miles of magnetic tape surface features and phenomena of selected regions of five continents and two major oceans were recorded. Investigators in the United States and 28 other countries have analyzed these data, and the results of their investigations are summarized in the discipline herein.

2.04

Summerlin, Lee B.		**Skylab, Classroom in Space**	NASA MSFC	12/31/1977	NASA SP-401	2 science

Abstract One of the innovative features of Skylab was the decision to give talented high school students an opportunity to participate directly in a major national space project. This book has been prepared to share this innovation in our nation's space program. It descibes the experiments designed by the students and reports what happened to those experiments. It also descibes the demonstrations performed by the astronauts.

2.05

Eddy, John A. and Ise, Rein		**A New Sun, The Solar Results From Skylab**	NASA MSFC	12/31/1979	NASA SP-402	2 science

Abstract The success of the Skylab mission and the Apollo Telescope Mount (ATM) has been been a thrilling to those who worked with NASA since 1958 in planning and consumating solar research in space. The ATM that finally emerged became one of the most important milestones in the history of solar astrophysics.

2.06

Location	Author	Title	Source	Date pub.	Doc. number	Series
Lundquist, Charles A.		**Skylab's Astronomyand Space Sciences**	NASA MSFC	12/31/1979	NASA SP-404	2 science

Abstract On Skylab there were a sizable number of relatively small instruments serving a variety of scientific disciplines. Some of them explored various areas of space science and astronomy, and their results are summarized in this volume.

2.07

Maumann, Robert J. and Herring, Harvery		**Materials Processing in Space: Early Experi**	NASA MSFC	12/31/1980	NASA SP-443	2 science

Abstract Although the interestin space processing of various materials began in the late 1950s and limited testing was done in drop towers and on some of the last Apollo flights, the Skylab experiments on solidification and crystal growth in space constitute the first extensive demonstration of materials processing in space, and the results substantially encourage the outlook for future applications in the field.

2.08

Gary, Gilmer Allen		**Comet Kohoutek, Workshop at MSFC June**	NASA MSFC	12/31/1974	NASA SP-355	2 science

Abstract The uniquely early discovery of bright, long-period comet (Kohoutek) with perihelion occuring during the third mission to Skylab opened the way to the most comprehensive sudy of the evolution and transformation of a comet. The early results from these various observations were brought together at the workshop held on June 13-14 at MSFC.

2.09

Belew, Leland F.		**Skylab Experiments, General Descriptions**	MSFC, Skylab P	3/31/1971	Document	2 science

Abstract This document contains abbreviated descriptions of Skylab experiments for which MSFC has development and /or integration responsibility. Hardware photographs, herein, generally represent a relatively advanced stage of maturity (post Critical Design Review) but flight hardware is in process of fabrication and may vary from the representations due to late changes.

2.10

Location	Author	Title	Source	Date pub.	Doc. number	Series
	Floyd, Henry B. and Ise, Rein	**MSFC Integrated Experiments Preliminary**	NASA MSFC Sk	11/30/1974	NASA TM X-64	2 science

Abstract This Technical Memorandum describes the Skylab experiments integrated by the MSFC, Experiment Development and Payload Evaluation Project Office and presents preliminary results. The Apollo Telescope Mount, Science Demonstrations, the pre-and postflight Medical and Student Experiments are not covered in this report.

2.11

	Floyd, Henry B. and Ise, Rein	**MSFC Skylab Corollary Experiment System**	NASA MSFC Sk	9/30/1974	NASA TM X-64	2 science

Abstract Presented in this report are evaluations of the performance of corollary experiment hardware developed by the MSFC and operated during the three manned Skylab missions. Also presented are assessments of the functional adequacy of the experiment hardware and its supporting systems.

2.12

	Floyd, Henry B. and Ise, Rein	**MSFC Skylab Corollary Experiments**	NASA MSFC Sk	7/31/1974	NASA TM X- 6	2 science

Abstract This report documents the evolution of the development and integration of Skylab experiments from initial concepts through mission operations. All experiment systems are covered as well as management controls which we developed and exercised.

2.13

	staff, Educational Programs Division, NAS	**Observing Earth from Skylab**	NASA Headquar	12/31/1975	NASA Facts-56	2 science

Abstract A number of Earth resources investigations are possible by using remotely sensed information. For example: mapmaking, Geology/Geodesy, Water Resources, Oceanography, Meteorology, and Geography/Ecology.

2.14

Location	Author	Title	Source	Date pub.	Doc. number	Series
Floyd, Henry B. and Ise, Rein		**MSFC Skylab Student Project Report**	NASA MSFC Sk	8/31/1974	NASA TM X-64	2 science

Abstract The National Science Teacher's Association (NSTA) and NASA developed plans in 1971 to directly involve students of U.S. high schools in the Skylab experimentation programs. Some 4000 students submitted experiments from which twenty-five national winners were selected. This report traces the background of the project and emphasizes experiment performance.

2.15

Floyd, Henry B.		**Skylab Student Project Summary Descriptio**	NASA MSFC Sk	3/31/1973	MSFC_SL-73-3	2 science

Abstract This brochure offers a brief look at the Skylab Student Project: What it is, why and how it originated, how it was developed, and what it attempts to accomplish.

2.16

Martin Marietta Corporation		**Skylab Film Environment Effects**	NASA MSFC Sk	7/31/1975	NASA TM x-64	2 science

Abstract The effects of the Skylab environment on the 22 types of film used for data recording on Skylab were evaluated. Environmental histories and sensitometric curves for 114 rolls of film used for this evaluation are presented. Specific conclusions are provided in the areas of further analysis, tests and developments that will enhance data recording with photographic film in

2.17

Forsythe, Dixon L.		**Skylab and the Sun**	NASA Office of	7/31/1973	EP 119	2 science

Abstract The Apollo Telescope Mount (ATM) carries five large experiment telescope packages to permit simultaneous viewing of solar activity in different wavelengths. The ATM program will, for the first time, permit the evaluation of man's utility and ability to operate complex scientific instruments in the space environment.

2.18

Location	Author	Title	Source	Date pub.	Doc. number	Series
Price P. Buford		**Trans-Uranic Cosmic Rays, Final Technical**	Space Sciences	3/15/1978	NAS 8-29603	2 science

Abstract The opportunity to expose a 1.2 m squared stack of Lexan detectors just inside a 1g/cm squared wall of Skylab, and a 0.36 m squared Lexan outside the Skylab, has led to important advances in our understanding of cosmic rays and has had several unexpected benefits.

2.19

Grodzka, PG: Facemire,BR;Johnson,M.H.		**Electrochemical Deposition of Silver Crysta**	NASA MSFC	7/31/1976	NASA TN D-82	2 science

Abstract Silver crystals were grown aboard Skylab IV by an electro-chemical reaction and subsequently returned from earth for comparison with crystals grown at 1-and 5-g.

2.20

Bannister, T and many others		**Skylab Demonstrations**	MSFC personnel	9/30/1973	document bind	2 science

Abstract This binder begins with a memo from T. Bannister to J. Waite "Science Demonstration Package for SL-4" Sept. 30, 1973 and contains reports on several of the accomplished demonstrations. This binder has a table of contents.

2.21

Investigators on Skylab, Several		**P.I. Materials for Skylab Volume (Astronom**	Principal Investi	12/31/1977	document bind	2 science

Abstract This binder contains documents by Skylab investigators collected in preparation of the book "Skylab Astronomy and Space Sciences." The binder has a table of contents.

2.22

Ball Brothers Research Corporation		**1975 Appointment Calendar-The Sun We Li**	Ball Corporation,	1/1/1975	Calendar	2 science

Abstract We at the Aerospace Division of Ball Brothers Research Corporation are very proud to have played a part in man's quest for knowledge of the sun. We hope you enjoy this calendar showing some of the colorful results scientists have obtained with the Skylab telescopes we helped create.

2.23

Location	Author	Title	Source	Date pub.	Doc. number	Series
Naugle, John E. and many others		**Comet Kohoute, Vol 1**	NASA and other	6/25/1973	document bind	2 science

Abstract This binder contains documents implementing to the observation of Comet Kohoutek from Skylab. It includes the memo, June 25, 1973, from John E. Naugle, NASA AA for Manned Space Flight authorizing an observation program from Skylab. It also contains teletype, July 3, 1973, requesting that MSFC take the lead in this effort. Binder has a table of contents.

2.24

Flyod, Henry B. and many others		**Comet Kohoutek, Vol 2**	MSFC and other	9/7/1973	document bind	2 science

Abstract This binder continues with documents implementing the observation of Comet Kohoutek. It begins with a memo from Henry B. Floyd, Sept. 7, 1973. "Presentation to Skylab Program Director on Skylab Kohoutek Project" Binder has a table of contents.

2.25

Maran, Stephan P. and others		**Comet Kohoutek, Vol 3**	Various Organiz	11/7/1973	document bind	2 science

Abstract This binder continues with documents implementing the observation of Comet Kohoutek. It begins with a memo dated Nov. 7, 1973. It includes "Notes from Operation Kohoutek" Nov. 12, 1973 by Stephan P. Maran manager, Operation Kohoutek Special Office, Goddard Space Flight Center. Binder has a table of contents.

2.26

Goodavage, Joseph F.		**The Comet Kohoutek**	Pinnacle Books,	11/30/1973	paper back boo	2 science

Abstract Throughout recorded history there have been comets. Their sightings and aftereffects have led to incredible confusion, misunderstanding, and fear. But not without reason, for comets have proved to be brillant and mysterious harbringers of earthshaking and other-worldly happenings. Every comet in history has been associated with war, catastrophe, and extraordinary events--Like it or not, Kohoutek will be too, It's happening now.

2.27

Location	Author	Title	Source	Date pub.	Doc. number	Series
Weaver. Kenneth F.		**What You Didn't See in Kohoutek**	National Geogra	8/31/1974	Vol. 146,pp 21	2 science

Abstract With nearly ten month's warning, astronomers at every important observatory in the world have closely followed the fuzzy blob in its swift flight toward the sun…Skylab astronauts had taken unique pictures, some of them even showing the comet as it whipped around the sun at 250,000 miles an hour.

2.28

Chapman, Robert D.		**Comet Kohoutek**	NASA GSFC, S	9/30/1973	Vol.1 No 1	2 science

Abstract A teacher's guide with student activities.

2.29

Black,J.H;Chaisson,EJ;Ball,JA;Penfield,H;		**Radiofrequency Emmission from CH in Co**	Center for Astro	4/26/1974	Preprint Series	2 science

Abstract The principal hyperfine transition at 9cm from a doublet state of CH has been detected in emission form Comet Kohoutek.

2.30

Sekanina, Z		**On the Nature of the Antitail of Comet Koho**	Center for Astro	5/29/1974	Preprint Series	2 science

Abstract The Anomalous tail of Comet Kohoutekis studied on the basis of the dust tail theory formulated by Finson and Probstein for the case of neglibly small emission velocities.

2.31

Moran, Stephan P.		**Three Reprints of Articles by S. Moran**	S. Moran is a m	12/31/1974	document foldi	2 science

Abstract "A funny thing happened to Comet Kohoutek Natural History, March 1974; Far-out comet watching Natural history Oct. 1974 A Cosmic Laboratory Science Year 1975

2.32

Location	Author	Title	Source	Date pub.	Doc. number	Series
Moran, Stephan P. and Hobbs, Robert W.		**A Great Comet Coming--Kohoutek**	Astronautics and	10/31/1973	Reprint	2 science

Abstract A Spectacular celestial visitor, Comet Kohoutek 1973f offers a rare research opportunity to astronomers and space scientists in the next few months. Passing inside the Earth's orbit in late November, it will travel through the inner solar system during a unique period in the history of the space program-when skylab and Mariner- Venus-Mercury are in operation and the new C-141 Airborne Infrared Observatory is ready for flight.

2.33

Lundquist,CA.;Craven,P.D.; and Hembree		**Kohoutek Photometric Photography Experi**	Marshall Space	10/31/1973	NASA TM-824	2 science

Abstract This binder has the final report on Skylab Experiment A233, Kohoutek Photometric Photography Experiment, and working papers from the experiment execution.

2.34

Yeomans, Donald K.		**Comet Kohoutek Ephemerides**	Computer Scien	10/31/1981	folder, working	2 science

Abstract This folder contains a comprehensive Ephemeris and a near-perihelion ephemeris for Comet Kohoutek 1973f.

2.35

Dubin, Maurice-welcome for NASA		**Comet Kohoutek Workshop**	MSFC Morris Au	10/1/1973	Workshop Age	2 science

Abstract This is the agenda for a Comet Kohoutek Workshop held June 13-14 at the MSFC Morris Auditorium. The results of Skylab and other observations of the comet were reported.

2.36

Gary, Gilmer Allen		**Scientific Returns from Observations of Co**	MSFC document	6/13/1974	document folde	2 science

Abstract Input sent from MSFC to Tom Haines(Skylab Headquarters), NASA for his information. Also this will be used in part as a news release. Tom Haines requested this through Bob O'Dell

2.37

Location	Author	Title	Source	Date pub.	Doc. number	Series
Deutschman, W.A.		**An Analysis of the Visual Magnitude of Co**	Center for Astro	7/1/1974	Preprint Series	2 science

Abstract An Analysis of 231 preperihelion and 245 postperihelion visual magnitude observations of Comet Kohoutek shows that the magnitude is best represented by Levin's formula and not by the usual power law as a function of distance from sun. Furthermore, the absolute magnitude of the comet at unit distance from both earth and the sun is 1.3 magnigtude fainter after perihelion than before perihelion.

2.38

Carr,Gerald P.;Gibson,Edward G.; Pogue,		**Comet Kohoutek from Astronaut Sketches**	Skylab 4 astrona	7/12/1974	MSFC74-SL72	2 science

Abstract During the mission, the Skylab 4 astronauts made sketches and notes on the appearance of Comet Kohoutek. After the mission, they compiled these data into a six frame illustratio reproduced by MSFC.

2.39

Kohoutek, L. and various authors		**Photometric Parameters of Comet Kohoute**	Reprints from va	2/28/1974	document folde	2 science

Abstract Various reprints of articles on Comet Kohoutek, including one by L. Kohoutek who discovered the comet. These are only a random sample of many papers published on the comet.

2.40

Various Observatories		**Photographs of Comet Kohoutes**	Photographs fro	12/31/1974	document folde	2 science

Abstract Various photographs of Comet Kohoutek from various observatories. This is a small, random sample of the very many photographs taken.

2.41

Floyd, Henry B. and Ise, Rein		**MSFC Skylab Kohoutek Project Report**	NASA MSFC Sk	10/31/1974	NASA TM_X-6	2 science

Abstract This report documents the Skylab 4 experiments' selection for observing Comet Kohoutek, 1973f. The report also reflects pre-mission planning versus the actual experiment performance based upon the changing cometary parameters. A complete astronaut commentary appears as appendices.

2.42

Location	Author	Title	Source	Date pub.	Doc. number	Series
Floyd, Henry B. and Ise, Rein		**MSFCSkylab Koutek Experiments Mission**	NASA MSFC Sk	9/30/1974	NASA TM X-64	2 science

Abstract This report documents the Skylab 4 experiments' observations of the Comet Kohoutek,1973f. The experiment concepts, hardware,operational performance and anomalies are discussed. Experiments which viewed the comet were mainly through the SAL and ATM, but some were handheld and EVA.

2.43

Vaughan, Otha H. et.al		**Collision, Coalescence and Oscillations of**	MSFC and other	12/31/1974	document folde	2 science

Abstract This folder contains reprints of papers on a droplet dynamics experiment performed on Skylab

2.44

Ise, Rein and Cagle, Eugene H		**The Apollo Telescope Mount on Skylab**	MSFC	9/15/1973	un-numbered p	2 science

Abstract The Apollo Telescope Mount on Skylab, orbiting 435 kilometers above the Earth, is providing a new opportunity for signifcant advancesin solar physics from space…The performance of the ATM, its experiments, and its systems has either met or exceeded the pre-mission expectations. And the presence of man as a part of the experiment program has added significantly to the quality and quantity of scientific returns.

2.45

Weldon, James M.		**Summary Minutes-Ad Hoc Review Committ**	NASA SG (JMW	5/5/1972	Document	2 science

Abstract These are summary minutes of an AD-Hoc Review Committee for Skylab Ground-Based Astronomy Program Proposals. The Chairman will take actions necessary to report to the Office of Space Science and Applications and to the Skylab Program Office the results of the review.

2.46

Zirker, Jack B.		**Coronal Holes and High Speed Wind Strea**	Colorado Associ	12/31/1977	Monograph	2 science

Abstract This is a monograph from Skylab Solar Workshop I. One objective of the Skylab Solar Workshops was to foster a continuation of the collaboration among the ATM experiment teams, the Guest Investigators, and a still larger group of scientists no initially associated with the ATM, for the analysis and interpretation of ATM data. Workshop I chose the topic of Coronal

Location	Author	Title	Source	Date pub.	Doc. number	Series
2.47						
Sturrock, Peter A.		**Solar Flares**	Colorado Associ	12/31/1980	Monograph	2 science
Abstract	This is a monograph from Skylab Solar Workshop II. After consultation with solar physicists, it was decided that the second workshop should be devoted to solar flares. Participants in Workshop II came not only from the United States, but also from Argentina, Australia, the Federal Republic of Germany, Ireland, Japan, the Netherlands, and the U.K.					
3.01						
Philyaw, George; Chairman Planning Com		**Skylab Revisit, Conference in Recognition**	University of Ala	5/11/1988	document foldi	3fifteenthAn
Abstract	This folder contains conference documents, including announcement, program, registration, reception and Skylab exhibit ribbon cutting photograph.					
3.02						
Philyaw, George; Chairman Planning Com		**Skylab Revisit, National Space Club Confer**	National Space	5/11/1988	document foldi	3FifteenthAn
Abstract	This folder contains documents from the National Space Club concerning plans for the Skylab Revisit Conference. It includes some written notes by Leland Belew from planning meetings.					
3.03						
Belew, L.;Schneider, William;Disher, John		**Skylab Revisit, Corporate Sponsorship Corr**	Computer Scien	5/11/1988	document foldi	3FifteenthAn
Abstract	This folder begins with hand notes on conversations in 1987 when the Skylab Revisit Conference was conceived. Much correspondence follows relative to corporate sponsorship of the Conference.					
3.04						
Leonhirth, Him;Burkey, Martin;and Others		**Skylab Revisit, press clippings**	The Huntsville Ti	5/11/1988	document foldi	3FifteenthAn
Abstract	This folder holds press clippings describing the Skylab Program.					
3.05						

Location	Author	Title	Source	Date pub.	Doc. number	Series
Guire, Nancy M.; Belew, Leland F.		**Skylab Revisit, photographs**	Memo from Nan	7/18/1988	document foldi	3FifteenthAn

Abstract "Enclosed for your memorabilia collection are photographs taken during the Skylab Revisit activities on May 11. This is an extra set of proof sheets that you can keep. Please let me know if you need additional prints of any of the photographs. It was a pleasure to work with you on the conference planning."

3.06

Waite, Jack		**Slu;an Student Experiment Scrapbook**	NASA MSFC	5/11/1988	Copies of letter	3 15th Anniv

Abstract This is a copy of a collection of letters, clippings and other documents concerning the Skylab student experiments.

3.07

Alabama Space and Rocket Center		**Framed Photograph**	AL Space and R	5/11/1988	Photograph	3 15th Anniv

Abstract This ia a photograph at the Space and Rocket Center when the Skylab exhibit was dedicate

3.08

NASA poster		**Skylab Poster**	momento	5/11/1988	Poster	3 15th Anniv

Abstract Poster: Skylab, America's first space station, Fifteenth Anniversar, 1973-1988.

3.09

Carr,G.P., Chair Habitability and Food Sys		**VHS video, Habitability and Food Systems**	MSFC and Natio	5/11/1988	VHS video	3 15th Anniv

Abstract Panel speakers are Gerald P. Carr, Caldwell C. Johnson, Robert Bond, Rita Rapp, Jack R. Lousma, Luther E. Powell

3.10

Mac Queen Robert,Chair Solar Physics P		**VHS video, Solar Physics Panel Discussion**	MSFC and Natio	5/11/1988	VHS video	3 15th Anniv

Abstract Panel speakers are Owen Garriott, Rober MacQueen, Allen Krieger, Richard Tousey, EinarTandberg-Hanssen,Edward Gibson (question)

Location	Author	Title	Source	Date pub.	Doc. number	Series
3.11						
Kerwin, Joseph, chair life sciences panel		**VHS video, Life Sciences Panel discussions**	MSFC and Natio	5/11/1988	VHS video	3 15th Anniv
Abstract	Panel speakers are Owen Garriott, Joseph Kerwin, Carolyn Huntoon, Paul C. Rembaut, William Thorton					
3.12						
Conrad, Charles Chair Vehicle Systems P		**VHS video, Vehicle Systems Panel discussi**	MSFC and Natio	5/11/1988	VHS video	3 15th Anniv
Abstract	Panel speakers are Owen Garriott, Charles Conrad, Leland Belew, Neil B. Hutshinson, Robert Thompson, Paul Weitz					
3.13						
Waite, Jack, chair Student Program Panel		**VHS video, Student Program Panel discussi**	MSFC and Natio	5/11/1988	VHS video	3 15th Anniv
Abstract	Panel speakers are Owen Garriott, Jack Waite, Dan Bochsler, Kent Brandt, Vincent W. Converse, W. Brian Dunlap, Keith Mcgee, Cheryl Peltz Weaver, Terry Quist, Robert Stahele					
3.14						
Naumann, Robert J., Chair Materials Proc		**VHS video, Materials Processing Panel disc**	MSFC and Natio	5/11/1988	VHS video	3 15th Anniv
Abstract	Panel speakers are Robert J. Naumann, Harry Gatos, David Larsen, William R. Wilcox, August Witt					
3.15						
Bean, Alan, Chair Crew Mission Highlights		**VHS video, Crew Mission Highlights Discus**	MSFC and Natio	5/11/1988	VHS video	3 15th Anniv
Abstract	Speakers are Owen Garriott, Alan Bean, Paul J. Weitz, William R. Pogue, Kenny Please, William Schneider					
3.16						
staff, MSFC		**Field Footage Logs for VHS video of Panel**	MSFC and Natio	5/11/1988	Footage Logs	3 15th Anniv
Abstract	Field Footage Logs and the program of the Panel Discussions at Skylab revisit, a conference in recognition of the fifteenth anniversary.					

Location	Author	Title	Source	Date pub.	Doc. number	Series
4.01						
Kingsbury, J.E. and many others		**Skylab Reuse Vol 1 (Documents on plans t**	MSFC Organizat	5/25/1977	document bind	4 reuse plan
Abstract	This binder contains documents on plans to reuse Skylab, starting with a memo by J. E. Kingsbury "Skylab Reboost Mission Project Plan" May 25 1977, and continuing to Sept. Binder has table of contents.					
4.02						
Downey, James A. and many others		**Skylab Reuse Vol 2 (documents on plans to**	MSFC Organizat	12/16/1977	document bind	4 reuse plan
Abstract	This binder contains documents on plans to reuse Skylab, starting with a memo by James A. Downey III to William Lucas, "Skylab Lifetime" Dec. 16 1977, and concluding with notes on discussions with NORAD Feb. 22-23, 1978. Binder has table of contents.					
4.03						
Johnson, Josh D. and many others		**Skylab Reuse Vol 3 (documents on plans to**	MSFC Organizat	2/9/1978	document bind	4 reuse plan
Abstract	This binder contains documents on plans to reuse Skylab, starting with a memo by Josh Johnson to J. Lovingood "In orbit Aerodynamics for Skylab" Feb 9, 1978 and continuing with documents through march 1978. Binder has a table of contents.					
4.04						
Vaughan, William W. and many others		**Skylab Reuse Vol 4 (documents on plans to**	MSFC Organizat	3/28/1978	document bind	4 reuse plan
Abstract	This binder contains documents on reuse and reactivation of Skylab, starting with a memo by W.W. Vaghan, March 24, 1978 and continuing through Aug 1978. Binder has table of contents.					
4.05						
Slowey, Jack W. and many others		**Skylab Reuse Vol 5 (Documents on plans to**	MSFC Organizat	6/15/1978	document bind	4 reuse plan
Abstract	This binder contains documents on reuse and reactivation of Skylab, starting with an SAO report by Jack W. Slowey "Satellite Drag Study in Support of Skylab Decay Investigation" July 1978, and concluding with an article by Garrett Epps "The Last Days of Skylab" in the Washington Post Magazine, Apr 8, 1979. Binder has table of contents					

Location	Author	Title	Source	Date pub.	Doc. number	Series
5.01						
Dreher, P.E. ; Little, R. P. and Wittenstein,		**Skylab Orbital Lifetime Prediction and Deca**	NASA MSFC	11/30/1980	NASA TM X-78	5 demise
Abstract	This report partially summarized chronologically the events and decisions that affected Skylab's orbital decay and lifetime predictions. It was written to satisfy a number of objectives but primarily to provide a complete record of Skylab's orbital lifetime predictions, its actual decay and analysis thereof. Skylab was launched on May 14, 1973 and re-entered the Earth's atmosphere on July 11th, 1979.					
5.02						
Smith, Robert E.; Thomason, Herman E.a		**MSFC Memoranda concerning the orbital lif**	MSFC internal	5/30/1975	MSFC memora	5 demise
Abstract	This folder contains a collection of MSF internal mwmoranda on solar activity indices and the prediction of the orbital lifetime of Skylab.					
5.03						
Euler, H.C.; Lundquist, C. A. and Vaughan		**Solar Activity Predictions for Satellite Orbit**	MSFC Preprint,	11/30/1978	document foldi	5 demise
Abstract	The procedure to predict solar activity indices for use in upper atmosphere density models is given together with an example of performance. The prediction employs a least-square linear regression model to generate the predicted smoothed index values… The output is issued principally for satellite orbital lifetime estimates.					
5.04						
Lundquist, Charles A. and Vaughan, Willia		**Analysis of Regression Methods for Solar A**	MSFC Space Sc	7/31/1978	SSL Preprint 7	5 demise
Abstract	The subject of this paper is the potential use of the most recent solar data to project the trends in the next few years. The work reported arose from the current problem of estimating future density values in the high atmosphere for spacecraft lifetime calculations (particularly Skylab).					
5.05						
Thomason, Herman E. and many others		**Skylab Vol 6 (documents on the final contr**	MSFC Organizat	4/20/1979	document bind	5 demise
Abstract	This binder contains documents on the final decay of the Skylab orbit and Skylab's atmospheric entry on Jul 11, 1979 at about 12:37 pm EDT. Binder has a table of contents.					

Location	Author	Title	Source	Date pub.	Doc. number	Series
5.06						
	Glaese, John R. and Kennel, Hans F.	**Low Drag Attitude Control for Skylab Orbita**	MSFC, System	4/30/1981	NASA TM-824	5 demise
Abstract	In the fall of 1977 it was determined that Skylab had started to tumble and that the original orbit lifetime predictions were much too optimistic…In the following the end-on-velocity (EOW) control method is documented, which was successfully applied for about half a year to keep Skylab in a low-drag attitude with the aid of the control moment gyros and a minimal					
5.07						
	Rosenthal, Henry F., AP writer	**Skylab burns over desolate Australian outb**	The Mobile Regi	7/12/1979	Newspaper	5 demise
Abstract	The Space Station Skylab , in a death plunge to Earth, Wednesday sprayed debris over central Australia across some of the most desolate terrain on the face of the Earth. There were no reports of damage or injury , sparing the United States worldwide embarrassment					
5.08						
	Plante, Bill and Lundquist, Charles	**CBS News Interview with Charles Lundquis**	CBS News, Inter	12/13/1978	CBS News-X82	5 demise
Abstract	CBS television interview with Charles Lundquist by Bill Plante concerning the demise of Skylab.					
5.09						
	Fishman, G.J. and many others	**Post Skylab**	MSFC Organizat	9/5/1979	document bind	5 demise
Abstract	This binder contains documents produced after the atmospheric entry of Skylab, including a memo by G.J. Fishamn "Activation Analysis of Skylab samples from Australia" Sept. 5, 1979. Binder has a table of contents.					
6.01						
	NASA and Martin Marietta	**Model, Skylab Multiple Docking Adapter**	NASA and Marti	1/1/1973	Model	6 models
Abstract	Model, Multiple Docking Adapter:1) Control Center for the orbital experiments:a) Solar Astronomy,(B Earth Resources, (c materials processing in space, (d cosmic radiation, (2 CSM docking and the skylab stowage module					

Location	Author	Title	Source	Date pub.	Doc. number	Series
6.02						
Bendix Corporation		**Model, A.T.M. Controls and Displays**	Bendix Corporati	1/1/1973	Model	6 models
Abstract	Model, A.T.M. Controls and Displays by the Bendix Corporation, Navigation and Control Division, Teterboro, New Jersey.					
6.03						
Perkin Elmer		**Optical Prism**	Perkin Elmer Co	1/1/1973	Model	6 models
Abstract	Optical Prism produced by Perkin Elmer Corporation					
6.04						
Bendix Corporation		**Model, ATM Star Tracker**	Bendix Corporati	1/1/1973	Model	6 models
Abstract	Model of the star tracker used on the Skylab Apollo Telescope Mount.					
6.05						
Rocketdyne Division of North America Avi		**Section of J-2 Rocket Engine fuel pump tur**	Rocketdyne	1/1/1973	Model	6 models
Abstract	This is a pie-section of a J-2rocket engine fuel pump turbine wheel. The second stage of the Saturn V vehicle that launched Skylab employed cluster of five J-2 engines. The second stage of the Saturn 1B vehicle that launched the crews to Skylab employed one J-2 engines.					
6.06						
Rocketdyne Division of North America Avi		**Section of a propellant injector for a J-2 roc**	Rocketdyne	1/1/1973	Model	6 models
Abstract	This is a cross section of a propellant injector for the J-2 rocket engine. The second stage of the Saturn V vehicle that lauched Skylab employed a cluster of five J-2 engines. The second stage of the Saturn IB vehicle that launched the crews to Skylab employed on J-2 engine.					
6.07						

Location	Author	Title	Source	Date pub.	Doc. number	Series
Rocketdyne Division of North America Avi		**Model of a J-2 rocket engine**	Rocketdyne	1/1/1973	Model	6 models
Abstract	This is a model of a J-2 rocket engine. The second stage of the Saturn V vehicle that launched Skylab employed a cluster of five J-2 engines. The second stage of Saturn 1B vehicle that launched the crews to Skylab employed one J-2 engine.					
6.08						
Rocketdyne Division of North America Avi		**Model of an H-1 rocket engine**	Rocketdyne	1/1/1973	Model	6 models
Abstract	This is a model of an H-1 rocket engine. The first stage of the Saturn IB vehicle that launched the crews to Skylab employed a cluster of eight H-1 engines.					
6.09						
Bendix Corporation, Navigation and Contr		**Model of Skylab Workshop and ATM**	Bendix Corporati	1/1/1973	Model	6 models
Abstract	This is an early conceptual model of the Skylab Workshop and the ATM.					
7.01						
JSD NASA		**Skylab Medallion**	JSC NASA	2/8/1974	Medallion	7 memmora
Abstract	This medallion was flown on the third Skylab mission. Presented to Leland Belew as a token of our esteem.					
7.02						
JSC Astronauts		**Snoopy Award**	award model	12/31/1974	Award	7 memmora
Abstract	The Snoopy Award given by the astronauts to Leland Belew.					
7.03						
National Science Teachers Association		**Desk ornament**	momento	12/31/1972	Award	7 memmora
Abstract	This is a copy given to Leland F. Belew of the Skylab Student Project award reading:"National Science Teachers Association and the National Aeronautics and Space Administration proudly present this award in recognition of a proposal for an experiment judged worthy of inclusion on Skylab."					

Location	Author	Title	Source	Date pub.	Doc. number	Series
7.04						
NASA		**Mission patches and commemorative envel**	momentos	12/31/1973	Patches	7 memmora
Abstract	A cloth patch was designed for each Skylab mission.					
7.05						
Neal, James		**Lithographic print**	Apollo Telescop	1/1/1973	Print	7 memmora
Abstract	This is an artistic rendition of Skylab and the Apollo Telescope Mount. Only 1000 lithographis prints were made of this fine work by artist James Neal. Each was inspected, numbered and signed by the artist, after which all plates were destroyed.					
7.06						
Grumman		**Thirteen color prints**	Grumman Corpo	1/1/1973	Prints	7 memmora
Abstract	This is a set of thirteen color prints for the Grumman Corporation. The prints represent aspects of the Apollo Lunar Program and the Skylab Program.					
7.07						
NASA		**Graphics, 11' by 20'**	Momentos	12/31/1974	Graphics	7 memmora
Abstract	This folder contains 3 very different 11' by 20" graphics. One is a composite photograph of Skylab pictures, patches etc. A second is a cartoon of the Skylab vehicle. The third is a glossy enlargement of a Christian Science Monitor article from May 15, 1973.					
7.08						
Momentos		**Three coffee cups Commemorating Skylab**	momentos	1/1/1973	Coffee Cups	7 memmora
Abstract	Three coffee cups commemorating Skylab form the collection of Leland F. Belew, Skylab Program Manager, and with his name inscribed.					