

# Manned Orbiting Laboratory

Courtney J V Homer

**The Natural Environment for the Manned Orbiting Laboratory System Program (MOL).** Air Force Cambridge Research Laboratories (U.S.),1964

The Story of Manned Space Stations Philip Baker,2007-08-20  
This book charts the history of manned space stations in a logical, chronological order. It tells the story of the two major space powers starting out on their very separate programs, but slowly coming together. It describes rarely mentioned development programs, most of which never flew, including the US Manned Orbiting Laboratory, the Soviet Almaz station, and the Soviet Polyus battlestation. The Mir space station was one of the greatest human achievements in modern history, and a thorough telling of its story is essential to this book. This book is the first of its kind to tell the whole story of the manned space stations from the USA and Russia.

**Spies in Space** Courtney J V Homer,2023-12-19 In the world of deeply classified military projects, never-weres and might have beens can shed great light on what actually has been happening behind the scenes. The Manned Orbital Laboratory, a secret project that was cancelled in 1969, illustrates that for more than

sixty years, the US government has been energetically seeking persistent, easily-retasked, adaptive, and above all intelligent capabilities for monitoring adversaries from space. For those interested in military space[1], the history offers an essential reference point. If the MOL had flown, it would have been super cool; but the US secured the desired capabilities by other means, many of which are still deep black. This document provides a comprehensive overview of the Manned Orbiting Laboratory (MOL) program, a United States Air Force initiative in the 1960s aimed at developing a manned space platform for military reconnaissance during the Cold War. The document explores the objectives, challenges, and eventual cancellation of the program, as well as the debates and differing opinions surrounding MOL. It discusses concerns about cost, international relations, and the role of humans in space. The document also covers the training program for MOL crew members, their roles and responsibilities, and the development of the MOL system. Personal accounts express shock and disappointment over the program's termination, and mention the consequences such as layoffs and the transfer of MOL crew members to NASA. Overall, this document offers insights into the complexities and controversies surrounding the MOL program. This

annotated edition illustrates the capabilities of the AI Lab for Book-Lovers to add context and ease-of-use to manuscripts. It includes five types of abstracts, building from simplest to more complex: TLDR (one word), ELI5, TLDR (vanilla), Scientific Style, and Action Items; four essays to increase viewpoint diversity: Context in the Discourse, Formal Dissent; Red Team Critique; and MAGA Perspective; and Notable Passages and Nutshell Summaries for each page. [1] Indeed, For All Mankind.-Ed.

**Manned Orbiting Laboratory** United States. Congress. Senate. Aeronautical and Space Sciences,1966

Manned Orbiting Laboratory Compendium James Outzen,Fred Zimmerman,2023-12-19 This Space Power series from Nimble Books was inspired by the creation of United States Space Force in 2019. New military services are only created once or twice a century. In time, military space history should grow to have the same breadth and depth of topical coverage as military, naval, and aviation history. There are books and enthusiasts for every army, navy and air force for every nation for every era, for every type of weapon and every type of soldier. Certain topics and genres have an enduring advantage in glamor and sales: tanks, battleships, fighters, the Wehrmacht, SEALs. It's not immediately obvious which

topics will carry that aura in the history of military space. This NRO book about the Manned Orbiting Laboratory falls in the never were/space station crossover subgenre. I hope that it will find an enthusiastic audience among those who groove on what MOL might have been. An eye in the sky; a decisive weapon; in the Cold War; a tragic casualty of space war; a driver for earlier human colonization of space: let your imagination soar! The document provides comprehensive information about the planning, development, and challenges faced by the Manned Orbiting Laboratory (MOL) program. It discusses the involvement of the Air Force and NASA, the termination of the Dyna-Soar program, and the approval of the MOL program. The document also highlights the decision-making process, the rationale behind the cancellation of Dyna-Soar, and the initiation of the MOL program. It provides details about the objectives, experiments, management structure, and funding of the MOL program. Additionally, it discusses the technical challenges, the debate between a manned and unmanned system, and the financial issues faced by the program. The document concludes with information about the budget, developmental, and schedule problems faced by the MOL program, including the slippage in sensor development and the efforts to

compress the development timeline. This annotated edition illustrates the capabilities of the AI Lab for Book-Lovers to add context and ease-of-use to manuscripts. It includes five types of abstracts, building from simplest to more complex: TLDR (one word), ELI5, TLDR (vanilla), Scientific Style, and Action Items; four essays to increase viewpoint diversity: Context in the Discourse, Formal Dissent; Red Team Critique; and MAGA Perspective; and Notable Passages and Nutshell Summaries for each page.

Spies in Space Courtney V. K. Homer, 2019 In 1963, the Air Force announced it was developing a program to increase the Defense Department efforts to determine military usefulness in space. This program was called MOL (Manned Orbiting Laboratory). The program also held a highly classified component called Dorian, managed by the National Reconnaissance Office. When the NRO declassified all its files on the Dorian and MOL programs in 2015, five astronauts (James Abrahamson, Karol Bobko, Albert Crews, Bob Crippen, and Richard Truly) and the program's technical director, Michael Yarymovych, shared their experiences and insight of being trained to be America's spies in space during the Cold War.

Evaluation of Manned Orbiting Laboratory Design Definition

Pressure Garments J. Donald Bowen, 1968 Four design definition pressure suits procured in connection with the manned orbiting laboratory program were investigated. These pressure garment assemblies were designed to fit in with the proposed crew cabins and related equipment as well as to satisfy safety and functional requirements anticipated for the two man crew. The report describes the pressure garment assemblies, gives some of the logic involved in design selection, reviews the evaluation procedures, and presents the results obtained in the battery of tests. Conclusions cover the general characteristics and shortcomings of the assemblies and offer an unofficial estimate of the general suitability for the MOL program. (Author).

Spies in Space: Reflections on National Reconnaissance and the Manned Orbiting Laboratory Center for Center for the Study of National Reconnaissance, Courtney V. K. Homer, 2019-08-04 In December 1963, while a student at New York University in its Air Force ROTC program, I was intrigued by a press release by the Air Force. The release had announced that the Air Force was developing something called the Manned Orbiting Laboratory (MOL). It was a program being developed to . . . increase the Defense Department effort to determine military usefulness of men

in space. This was a new domain for ROTC students to explore-- Astronauts with a military mission! While I, my fellow students, and the public saw this merely as another major move forward by the US in its very public space race with the Soviet Union, little did we know that there was a hidden, highly classified aspect to the MOL effort. It was Dorian, a deeply classified program managed by the then darkly hidden agency of the Intelligence Community, the National Reconnaissance Office (NRO). Fifty-two years later, on 22 October 2015 I had the honor of meeting five of these NRO astronauts (James Abrahamson, Karol Bobko, Albert Crews, Bob Crippen, and Richard Truly), along with the program's technical director, Michael Yarymovych. These five pioneering individuals were members of a panel that I was moderating at the National Museum of the United States Air Force (NMUSAF) in Dayton, OH. The compendium included Carl Berger's earlier MOL history, which is a record of the administrative efforts to develop and sustain the MOL Program. This current book, *Spies in Space-- Reflections on National Reconnaissance and the Manned Orbiting Laboratory*, goes well beyond that. The CSNR Oral Historian, Courtney Homer, conducted many hours of research, with a focus on oral history interviews. She based this new history on those

interviews, as well as the findings from her additional documentary research. This book offers the reader a window into the experiences and insight of those who were training to be America's spies in space during the Cold War. It is the recollections of those who lived the Dorian and MOL experience.

*Spies in Space* U. S. Military, National Reconnaissance Office (Nro), Courtney Homer, 2019-08-30 This report was released by the NRO in May 2019. Between 1965 and 1969, quietly and without fanfare, 17 non-NASA individuals were astronaut-trained in order to meet the reconnaissance needs of the United States. They came from across the military services. Participants in the Manned Orbiting Laboratory program trained tirelessly and worked relentlessly because they believed they could contribute something unique to U.S. reconnaissance efforts and because they all shared a dream of flying in space. The purpose of this book is to offer a first-hand account of the MOL program for the first time. Shrouded in secrecy, the MOL program was declassified by the National Reconnaissance Office in 2015. This is the first opportunity many participants had to share their experiences with anyone outside their small cadres. The bulk of the book is written in their words, taken directly from transcripts of oral history interviews conducted

over the last five years with program participants, as well as official documents and transcripts written by the officers who participated in and managed the programs. This compilation includes a reproduction of the 2019 Worldwide Threat Assessment of the U.S. Intelligence Community. Although the US Air Force announced the MOL project, they did not disclose the primary purpose of the program—to serve as a manned reconnaissance platform in space. Instead, the Air Force disclosed that the platform would be used for space experiments. During the early planning stages of the MOL program, the US Air Force sought a compelling reason for developing the program given NASA's mandate for manned space flight. The newly formed National Reconnaissance Office provided the most compelling reason for a military manned space program, putting a high resolution telescope into space to observe the activities of the Soviet Union and other US adversaries. At the time MOL was under development, the United States had already demonstrated that imagery and signals intelligence from space satellites provided compelling insight to US leaders, including the president. The limitations, especially of photoreconnaissance satellites, included timeliness of the intelligence and capture of the intelligence in optimal weather conditions. Photoreconnaissance

satellites captured images on film that took days to weeks to be deorbited, processed, analyzed, and made available to senior US leadership. Often the imagery was of limited value because of persistent cloud cover over areas of interest to the US. A manned imagery collection system in space seemed an elegant solution for overcoming these limitations. In theory, national reconnaissance astronauts could spot targets of interest, especially in a crisis, and image on orbits where those areas of interest were free of cloud cover. The astronauts could then develop and provide a preliminary readout of conditions on the ground in a crisis situation. If successful, the MOL program would provide intelligence information that would otherwise not be available for critical US decision-making. Although the MOL program was cancelled, its legacy continued not only through the contributions to US space and defense programs by the astronauts who trained for the program, but also the technological development from the program. The technology investments in MOL were transferred to NASA for its own manned laboratory program that launched in the 1970s. The NRO also directly benefited in investments in both launch and reconnaissance collection systems that would mature for use in other NRO programs.

*Manned Laboratories in Space* S.F. Singer, 2012-12-06 The publication of this book is extremely timely, for the next major advances in manned space flight after Project Apollo will most likely be made in earth orbital operations. Manned exploration of the moon will certainly continue after the initial landing, but it will be performed essentially with the Saturn V launch vehicles and Apollo spacecraft developed in Apollo, especially in the early phases. Modifications to this basic hardware will increase operating capabilities to permit extensive lunar exploration during prolonged stay times by the astronauts on the moon's surface. Manned orbital space stations have been studied for years, and NASA is already well along in development of its first attempt to provide more spacious accommodations for astronaut-scientists in its Saturn Workshop program. While the Workshop is certainly not the ultimate space station of which our technology is capable, it is a workable, poor man's approach to the immediate need for using and expanding our present manned space flight capability without a detrimental loss of momentum. The approach of converting a Saturn rocket stage into a manned laboratory and observatory in space is an improvisation that matches the use of the jerry-built Jupiter C back in 1958 to launch Explorer I. Let's hope that it can

get the job done just as effectively.

*The Dorian Files Revealed* U. S. Military, Department of Defense, U. S. Air Force (USAF), Center for the Study of National Reconnaissance (CSNR), National Reconnaissance Office (NRO), U. S. Government, 2017-04-26 This newly released document from the National Reconnaissance Office (NRO) provides the first comprehensive, detailed history of the Manned Orbiting Laboratory (MOL) space program of the 1960s. It also includes Carl Berger's A History of the Manned Orbiting Laboratory Program Office document. Contents: Chapter I: Early Space Station Planning \* Chapter II: A National Space Station \* Chapter III: DYNA-SOAR Killed, MOL Approved \* Chapter IV: Planning the Manned Orbiting Laboratory December 1963-June 1964 \* Chapter V: Evolution of the MOL Management Structure \* Chapter VI: Results of the Pre-Phase I Investigation \* Chapter VII: The Laboratory Vehicle Design Competition \* Chapter VIII: The MOL Program Decision 25 August 1965 \* Chapter IX: Organizing for Contract Definition \* Chapter X: The Manned/Unmanned System Studies: 1965 - 1966 \* Chapter XI: Budget, Developmental, and Schedule Problems: 1965-1966 \* Chapter XII: Congress, MOL Security and the Range Controversy \* Chapter XIII: Air Force / NASA Coordination \* Chapter XIV: New

Financial and Schedule Problems: 1967-1968 \* Chapter 15: The Project Terminated \* Chapter XVI: Post-Mortem The Manned Orbiting Laboratory Program was publically disclosed from its early inception-first by the Air Force in 1963 and later by President Johnson in 1965 when the program was described as a means for advancing the military's use of space. Many elements of the program have been well known, including the identities of the men selected to serve as MOL crew members, the configuration of the launch vehicle used to place the MOL in orbit, and general details of some of the experiments that were planned for the vehicle. What has not been revealed, until now, is the extent to which the MOL was designed to serve as a platform for national reconnaissance collection. The Manned Orbiting Laboratory, or MOL as it was known, promised to use space for the first time as a manned reconnaissance vantage point. If successful, the program could dramatically change the way the United States collected intelligence on its adversaries, including the nation's main foe, the Soviet Union. In order to gain both tactical and strategic intelligence on foes, nations have turned to the skies to gain a better vantage point for collecting intelligence. The United States developed in earnest active technical intelligence collection

programs after World War II. The early efforts involved modification of military aircraft to fly near, and sometimes over, the denied areas of the Soviet Union and allied nations of the Soviets. The modified aircraft carried camera and signals collection equipment to capture activities in these closed areas. Unfortunately, US adversaries could down these aircraft, and did so on several occasions. Undeterred, the US developed aircraft specifically for airborne reconnaissance--first the U-2 and later the CIA's A-12 and the Air Force's variant, the SR-71. Both became obsolete for reconnaissance over the Soviet Union as Soviet air defenses improved as was manifested by the May 1960 downing of an U-2 over the Soviet Union, piloted by Francis Gary Powers.

*The Dorian Files Revealed* ,2015

*Into the Unknown Together* Air University Press, Mark Erickson, World Spaceflight News, Department of Defense (DoD), 2017-05-07 *Into the Unknown Together* is a comprehensive review of the political and management terrain involved in the early US space program--especially those aspects dealing with human spaceflight. Indeed, the work is encyclopedic. Primarily covering the period from the birth of the National Aeronautics and Space Administration (NASA) in 1958 to the end of the Apollo program in

1972, the book discusses in great detail the complex, sometimes byzantine, interactions that characterized the relations among NASA, the Department of Defense (DOD), and the Air Force. The book is particularly strong in its tracing of the development of these interactions and the manner in which each presidential administration put its own stamp not only on the overall US space program, but also on the nature of the relationship between NASA and its DOD counterparts. These interactions varied in time and intensity, ranging from cooperation to conflict and benign disregard. The work certainly represents an important contribution to the serious academic literature relating to space history, clearly refuting any notion that NASA was merely a puppet of the DOD or the Air Force. The 108-page bibliography alone, current through the early 2000s, is a most impressive resource for the writer on space issues. In sum, for the professional space-policy wonk or historian of US space (and science) policy, *Into the Unknown Together* is a must reference for a study or library. Colonel Erickson has done the academic fields of space history and policy a great service.

(Review by Lt Col Joseph P. Bassi, USAF, Retired)Contents:

Chapter 1 - Necessary Preconditions \* Chapter 2 - Eisenhower Act I \* Chapter 3 - Eisenhower Act II \* Chapter 4 - Mercury, Dynasoar,

and the NRO Under Eisenhower \* Chapter 5 - Kennedy, Prestige,  
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Conclusion Colonel Erickson examines the use of space exploration  
as a tool to secure international prestige and national pride as part  
of the Cold War struggle with the Soviet Union during the  
Eisenhower, Kennedy, and Johnson administrations. He looks at  
the creation of the National Aeronautical and Space Administration  
(NASA), the evolving NASA-DOD relationship, and the larger  
context in which this relationship was forged. He focuses on the  
human-spaceflight projects--Projects Mercury, Gemini, Apollo,  
Dynasoar, and the Manned Orbiting Laboratory--by examining the  
geopolitical, domestic political, and bureaucratic environments in  
which decisions concerning these projects were made. By blending  
in the individuals involved, the obstacles that were overcome, and  
the achievements of the US space program, Erickson reveals a  
special transformation that took place during this chapter of  
American history.

## **The Last of NASA's Original Pilot Astronauts David J.**

Shayler, Colin Burgess, 2017-06-19 Resulting from the authors' deep research into these two pre-Shuttle astronaut groups, many intriguing and untold stories behind the selection process are revealed in the book. The often extraordinary backgrounds and personal ambitions of these skilled pilots, chosen to continue NASA's exploration and knowledge of the space frontier, are also examined. In April 1966 NASA selected 19 pilot astronauts whose training was specifically targeted to the Apollo lunar landing missions and the Earth-orbiting Skylab space station. Three years later, following the sudden cancellation of the USAF's highly classified Manned Orbiting Laboratory (MOL) project, seven military astronauts were also co-opted into NASA's space program. This book represents the final chapter by the authors in the story of American astronaut selections prior to the era of the Space Shuttle. Through personal interviews and original NASA documentation, readers will also gain a true insight into a remarkable age of space travel as it unfolded in the late 1960s, and the men who flew those historic missions.

**Military Man in Space Timothy D. Killebrew, 1987**

**Results of the Third U.S. Manned Orbital Space Flight, October**

### 3, 1962 Manned Spacecraft Center (U.S.),1962

**Transonic Aerodynamic Characteristics of a Saturn IB Manned Orbiting Research Laboratory Launch Vehicle** Stuart G.

Flechner, Richard A. Langhans, 1969

*Outposts on the Frontier* Jay Chladek, 2017-08 The International Space Station (ISS) is the largest man-made structure to orbit Earth and has been conducting research for close to a decade and a half. Yet it is only the latest in a long line of space stations and laboratories that have flown in orbit since the early 1970s. The histories of these earlier programs have been all but forgotten as the public focused on other, higher-profile adventures such as the Apollo moon landings. A vast trove of stories filled with excitement, danger, humor, sadness, failure, and success, *Outposts on the Frontier* reveals how the Soviets and the Americans combined strengths to build space stations over the past fifty years. At the heart of these scientific advances are people of both greatness and modesty. Jay Chladek documents the historical tapestry of the people, the early attempts at space station programs, and how astronauts and engineers have contributed to and shaped the ISS in surprising ways. *Outposts on the Frontier* delves into the intriguing stories behind the USAF Manned Orbiting

Laboratory, the Almaz and Salyut programs, Skylab, the Apollo-Soyuz Test Project, Spacelab, Mir station, Spacehab, and the ISS and gives past-due attention to Vladimir Chelomei, the Russian designer whose influence in space station development is as significant as Sergei Korolev's in rocketry. *Outposts on the Frontier* is an informative and dynamic history of humankind's first outposts on the frontier of space.

*Who's who in Space* Michael Cassutt, 1987 Space travelers and programs, including NASA astronauts, civilian and military shuttle payload specialists, USAF pilots in the X-15, the X-20 Dyna-Soar, and the Manned Orbiting Laboratory, Soviet cosmonauts, and international space programs and travelers.

**Outposts on the Frontier** Jay Chladek, Clayton C. Anderson, 2017 The International Space Station (ISS) is the largest man-made structure to orbit Earth and has been conducting research for close to a decade and a half. Yet it is only the latest in a long line of space stations and laboratories that have flown in orbit since the early 1970s. The histories of these earlier programs have been all but forgotten as the public focused on other, higher-profile adventures such as the Apollo moon landings. A vast trove of stories filled with excitement, danger, humor, sadness, failure,

and success, *Outposts on the Frontier* reveals how the Soviets and the Americans combined strengths to build space stations over the past fifty years. At the heart of these scientific advances are people of both greatness and modesty. Jay Chladek documents the historical tapestry of the people, the early attempts at space station programs, and how astronauts and engineers have contributed to and shaped the ISS in surprising ways. He delves into the intriguing stories behind the USAF Manned Orbiting Laboratory, the Almaz and Salyut programs, Skylab, the Apollo-Soyuz Test Project, Spacelab, Mir station, Spacehab, and the ISS, and gives past-due attention to Vladimir Chelomei, the Russian designer whose influence in space station development is as significant as Sergei Korolev's in rocketry. This is an informative and dynamic history of humankind's first outposts on the frontier of space.

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power of words as you dive into this riveting creation. Download now and elevate your reading experience to new heights .

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